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Bally's Bronx
Hazardous Materials - Supporting Documentation

LANGAN

E-1

Bally's Bronx
1999 Environmental Assessment Statement
Prepared by: Allee King Rosen & Fleming, Inc.
Prepared for: NYC Department of Parks and Recreation

LANGAN

Ferry Point Park

Environmental Assessment Statement

Prepared for: New York City Department of Parks & Recreation

Prepared by: Allee King Rosen & Fleming, Inc.
with
Carter, Ledyard & Milburn
Butler Rogers Baskett PC
Golden Bear International, Inc.
Greenberg Traurig
Environmental & Turf Services, Inc.
JWE Engineering & Environmental Services, LLC
PBS&J
Princeton Hydro, LLC
Thomas Balsley Associates
TRC Environmental Corp.

September 30, 1999

ENVIRONMENTAL ASSESSMENT STATEMENT

PART I: APPLICANT INFORMATION & ACTION SUMMARY

A. LEAD AGENCY

Agency: **New York City Department of Parks & Recreation**

Contact: **Joanne G. Imohiosen, Asst. Commissioner, and Jane Cleaver, Chief of Parklands**

Address: **The Arsenal, Central Park**

New York, NY 10021

Phone: **(212) 360-3404/ 360-3401**

Fax: **(212) 360-3434/ 360-3461**

B. APPLICANT

Applicant: **New York City Department of Parks & Recreation**

Contact: **Joanne G. Imohiosen, Asst. Commissioner, and Jane Cleaver, Chief of Parklands**

Address: **The Arsenal, Central Park**

New York, NY 10021

Phone: **(212) 360-3401**

Fax: **(212) 360-3461**

C. APPLICATION IDENTIFICATION

Project name: **Ferry Point Park**

CEQR # (agency initials followed by year and number): **99DPR006X**

BSA #:

September 30, 1999

ULURP #: _____

LEGISLATIVE INTRO #: _____

CAPA #: _____

D. ACTION DESCRIPTION

1. Provide a Sanborn or other land use map showing the boundaries of the directly affected area.*

   See Figure 1

2. Describe the location of the directly affected area as follows:

   Borough **Bronx**

   Community District(s) **10**

   Tax block(s) and lot(s) **Block 5583, Lot 100 and Block 5622, Lot 1.**

   Street address, vanity address and nearest cross streets (minimum of two) to property:

   The eastern portion of Ferry Point Park, bounded by the Bronx-Whitestone Bridge to the west, Balcom, Miles, and Emerson Avenues to the east, Schley Avenue to the north, and the East River to the south.

* The directly affected area consists of the project site and the area subject to any change in regulatory controls that the action includes.

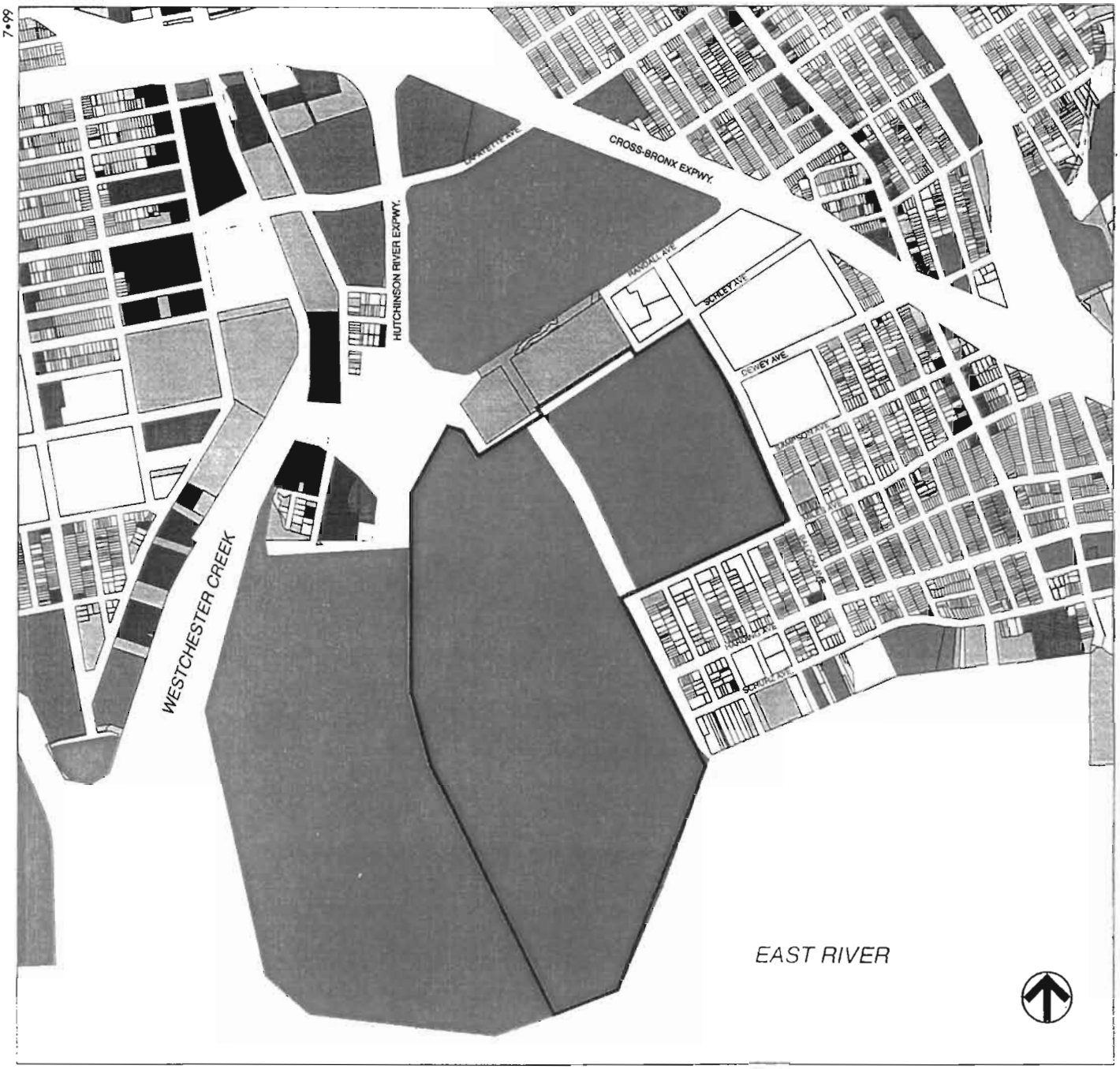

Project Site Boundary

- Residential
- Residential (with Ground-Floor Retail)
- Commercial
- Office
- Institutional
- Hotel
- Entertainment
- Industrial, Utilities, Transportation, Public Parking
- Open Space
- Vacant

0 1000 2000 FEET
SCALE

Ferry Point Park

Land Use

Figure 1

If the action would apply to the entire City or to areas that are so extensive that site-specific description is not appropriate or practicable, describe the areas likely to be affected by the action:

N/A.

3. Describe the action for which environmental review is being performed and, briefly, what consequences would result from or be generated by the action:

The proposed project has the following actions which will require discretionary approvals and are subject to environmental review:

- **The application by the New York City Department of Parks and Recreation (DPR) to the City Planning Commission (CPC) for a major concession for the development, construction, operation, management, and maintenance of a public recreation facility at Ferry Point Park, and the issuance of a license agreement by DPR to Ferry Point Partners, LLC, for the development, construction, operation, management, and maintenance of a public recreation facility at Ferry Point Park. The project site (after the proposed demapping of the two unbuilt and undeveloped streets discussed below) is approximately 222 acres. The proposed public recreation center would include a waterfront park of approximately 19.5 acres (including a waterfront esplanade, walkways, kiosks, and a boathouse grill restaurant); a community park of approximately 7 acres (including active and passive recreational areas such as a ballfield, basketball court, and children's recreation area); and a comprehensive golf facility (including an 18-hole tournament quality golf course, driving range, practice areas, clubhouse with full-service pro shop/snack bar/ locker rooms, maintenance building, and facility managers residence), and fine dining/ banquet facility on approximately 195.5 acres. The proposed public recreation facility would be developed on the eastern portion of Ferry Point Park, an area of the park that is undeveloped except for an organic recycling and composting facility that is located in the northwestern portion of the project site (currently operated by DPR, and planned to be relocated), informal dirt bike paths, an informal model airplane area in the western portion of the project site, and a ballfield and basketball court located on the northeastern portion of the project site. The proposed public recreation center would function primarily as a regional park. Vehicular, pedestrian and bicycle access to the site would be via I-678 under the Bronx-Whitestone Bridge. Pedestrian connections would be provided between the project site and the portion of Ferry Point Park located to the west of the Bronx-Whitestone Bridge. Access for emergency vehicles would be provided via Emerson Avenue.**

- **The application by DPR to CPC to demap two unbuilt and undeveloped streets—Emerson Avenue between Miles and Schley Avenues, and Schley Avenue between Buttrick and Emerson Avenues—which would be incorporated into Ferry Point Park and add approximately 6 acres of new parkland. Sewer corridors or easements would be provided for both of these demapped streets.**

The proposed project will be subject to New York City's Uniform Land Use Review Procedure (ULURP).

4. Physical dimensions and scale of project (fill in dimensions as appropriate):

Total contiguous square feet owned or controlled by project sponsor:

9.67 million* square feet.

Project square feet to be developed: **9.67 million** square feet.

Gross floor area of project, in square feet: **53,100****

If the action is an expansion, indicate percent of expansion proposed in the number of units, square feet or other appropriate measure: **Demapping will add approximately 266,500 square feet of new parkland.**

_____ % of _____

Dimensions (in feet) of largest proposed structure***:

150' height; **30'** width; **440'** length.

Linear feet of frontage along a public thoroughfare **7,700 feet**

5. Construction:

Will the action result in demolition of or significant physical alteration to any improvement?

Yes.

Notes:

* Approximate area of existing parkland subject to this action is 9.45 million square feet. This does not include existing parkland west of the Bronx-Whitestone Bridge/Hutchinson River Parkway, and does not include parklands in the East River under water. Approximate area of Emerson and Schley Avenues to be demapped as part of this action is 266,500 square feet.

** Approximate area of buildings above grade.

*** The driving range will include tees in a structure of approximately 30 by 440 feet and an open driving range of approximately 400 by 950 feet, surrounded by netting approximately 50 to 150 feet in height. The driving range may include a removable dome that would be approximately 400 by 400 feet and 120 feet in height. The dome would be utilized during the winter months.

Will the action involve either above ground construction resulting in any ground disturbance or in-ground construction?

Yes. The project would involve ground disturbance for construction of the proposed public recreation facility (including the golf facility, the community park, and the waterfront park). In-ground construction would include the five proposed buildings planned as part of the project (i.e., clubhouse, facility managers residence, boathouse grill, maintenance building, and fine dining/banquet facility), the support system for the golf driving range, park gazebo, kiosks, shelters, restroom facilities, utility connections, and irrigation and drainage systems.

If single phase project:

Anticipated period of construction (including demolition): **30** months

If multi-phased:

Total number of phases anticipated: _____ (number)

Describe phases and construction schedule:

Anticipated date of commencement of phase 1 (including demolition):

January month **2000** year

Approximate completion date of final phase:

Spring month **2002** year

E. APPROVALS

1. Will the action be reviewed pursuant to the Uniform Land Use Review Procedure (ULURP) set forth in section 197-c of the Charter?
   Yes.

2. Identify below and describe as appropriate all City approvals required for the action, regardless of whether environmental review is required for any individual approval.

LAND USE APPROVALS SOUGHT

(For BSA approvals, see following section):

Zoning text amendment: _____

Zoning map amendment: _____

City map change: _____

Street map change: **Demapping of Emerson Avenue between Miles and Schley Avenues, and Schley Avenue between Buttrick and Emerson Avenues.**

Park map change: **To include demapped streets that are to be remapped as park land.**

Special permit: _____

Specify type: _____

Specify section of Zoning Resolution: _____

New or renewal? _____

Expiration date: _____

Site selection for public facility: _____

Acquisition of real property by the City: _____

Public easement: **Sewer easements to be provided.**

Franchise: _____

Type of franchise: _____

New or renewal? _____

Expiration date: _____

Urban renewal area designation or alteration: _____

Urban renewal plan: _____

New or amended? _____

Concession: **Major concession pursuant to a license agreement.**

Sanitary or waterfront landfill: _____

Revocable consent: _____

New, modified or renewal? _____

Expiration date: _____

City Planning authorization: _____

Charter §197-a plan: _____

Disposition of City property: _____

Other (specify): _____

BOARD OF STANDARDS AND APPEALS APPROVALS SOUGHT:

Special permit: _____

Type of special permit: _____

Specify section of Zoning Resolution: _____

New or renewal? _____

Expiration date: _____

Variance: _____

Type of variance, if known (use or bulk): _____

Other (specify): _____

OTHER CITY APPROVALS SOUGHT:

Legislation: _____

Rulemaking: _____

Specify agency: _____

Construction of public facilities: _____

Specify: _____

Funding of construction: _____

Specify: _____

Funding of programs: _____

Specify: _____

Policy or plan: _____

Landmarks Preservation Commission approvals (exempt from CEQR): _____

Department of Buildings approvals (exempt from CEQR): **Yes.**

Other (specify): _____

New York City Department of Environmental Protection (DEP)
Stormwater Pollution Prevention Plan Review; sewer and water connections.
New York City Department of Transportation (DOT)
Roadway repair for existing Parks road.
New York City Art Commission
Landscape and building design approval.
New York City Department of City Planning (DCP)
Review for consistency with Local Waterfront Revitalization Program.

2. Specify all State and federal approvals, actions or funding required for the action, regardless of whether environmental review is required for any individual action.

Possible Involved Agencies:

New York State Department of Environmental Conservation (DEC)
Stormwater Pollution Prevention Plan Review.
Triborough Bridge and Tunnel Authority (TBTA)
Maintenance facility under Bridge.

F. ACTION TYPE

Is the action a Type I action or an unlisted action? Consult the Type I list in 6 NYCRR §617.12(b) and the City list at §6-15(a) of Executive Order No. 91 of 1977. (See attachments 3 and 4.) Type I actions have been determined to be more likely to require preparation of an environmental impact statement than other actions. Prior to finalizing the EAS, it may be appropriate to reconsider the answer to this question in light of other parts of the EAS or supporting materials. Check below as appropriate:

Unlisted: _____

Type I: ✓

Specify Type I category or categories: **Alteration of parkland of over 2.5 acres.**

After completing or receiving Part I, the lead agency must send a copy of it, with any other information it deems necessary, to the Mayor's Office of Environmental Coordination -- 100 Gold Street, Second Floor, New York, New York, 10038. In addition, if an action includes discretionary actions/approvals by city agencies other than the lead agency, the lead agency should provide those involved agencies with notice of its lead agency status and send them Part I of the EAS.

PART II: SITE AND ACTION DESCRIPTION

This Part provides a detailed description of the proposed action and addresses the physical and socioeconomic context of the proposed action. Materials prepared for other purposes may be used to satisfy this Part where appropriate. Where appropriate, the action description should include the cumulative effects of related actions. This Part also requires applicants to submit analyses for all applicable categories of environmental impacts.

A. CATEGORIZING YOUR ACTION

(1) LOCALIZED ACTIONS include: a) site specific actions which would result in a specific or known development at particular locations; and b) actions involving changes in regulatory controls that affect one or more sites in a well defined localized geographic area and are not associated with specific or known development on each of those sites. Localized actions may be a mix of (a) and (b).

(2) AREAWIDE/PROGRAMMATIC ACTIONS include those actions that would apply to the entire City, or to areas that are so extensive that site-specific description and/or analysis would not be appropriate or practicable.

Check the category of action that is reflection of the actions proposed:

Category 1: (a) ✓ and/or (b) _____

Category 2: _____

For more information on categorizing your action, consult the introduction to the EAS Guidebook, at pages 8-9.

Subparts B, D, E and F of this Part should be completed for all localized actions. Subpart C, entitled "Project Description," is generally completed only for site specific actions which would result in a specific or known development at particular locations.

If your action is localized and involves changes in regulatory controls that affect one or more sites not associated with a specific development, then it is generally appropriate to include in Subpart E one or more reasonable development scenarios for such sites and, to the extent possible, to provide information about such scenario(s) similar to that requested in Subpart C.

If your action is areawide/programmatic, then you may generally skip subparts B through E of this Part (pages 16-25 of this form), unless completion of those subparts is helpful in describing your action, and proceed directly to subpart F on page 25. If you skip subparts B through E, be sure to attach texts and/or maps that will serve as the action description in lieu of completion of those subparts.

B. SITE DESCRIPTION

Except where otherwise indicated, answer the following questions with regard to the directly affected areas. (The directly affected area, also called the area directly affected by the action, consists of the project site and the area subject to any change in regulatory controls that the action includes.) Indicate N.A. if not applicable.

1. MAPS:

   In addition to the Sanborn or other land use map requested in Part I, provide a tax map and zoning map showing the boundaries of the directly affected area.

   See Figures 2, 3a, and 3b.

2. PHYSICAL SETTING

   (both developed and undeveloped areas):

   Total square feet of directly affected area: **9.67 million** square feet

   Current general breakdown of area:

   The project site is currently undeveloped parkland, with the exception of an organic recycling facility (in the northwestern), a composting area (in the middle), and a ball-field and basketball court (the northeastern). There are other unauthorized uses.

   Water surface area: **0** square feet

   Roads, buildings and other paved surfaces: **130,000** square feet

   Other: _____ square feet

3. PRESENT LAND USE:

   Residential **None.**

   Total no. of dwelling units: **0**

   Number of low-to-moderate income units:* **N/A.**

   Gross floor area (square feet): **N/A.**

   Number of stories: **N/A.**

   Describe type of residential structures:

   N/A.

   Commercial **None.**

   Retail **0** Number of buildings and gross floor area of each building (sq. ft):

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* Low-to-moderate income units are units with monthly carrying costs of not more than 30% of the median area monthly income. The Department of Housing Preservation and Development may be contacted for assistance in applying this definition.

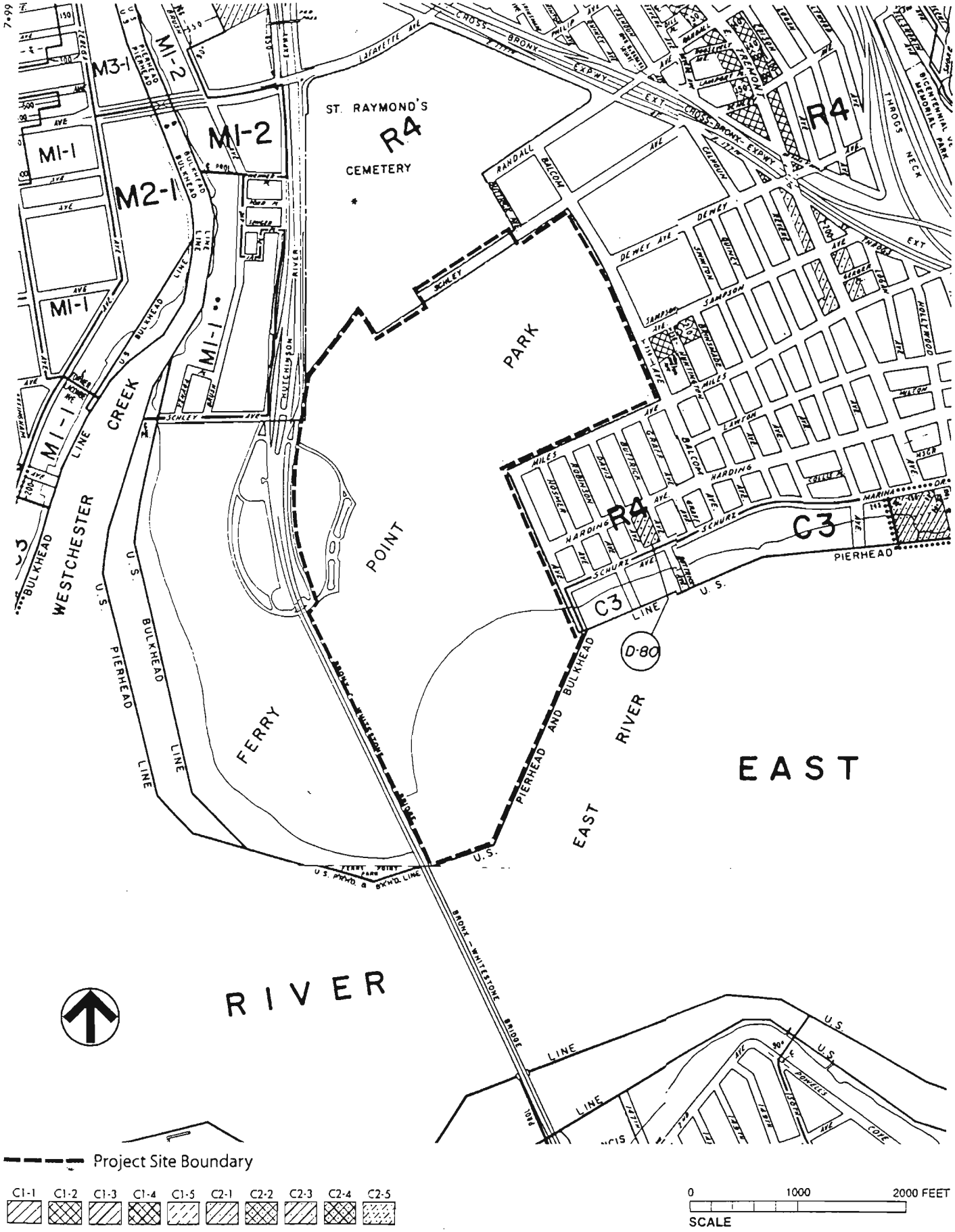

Ferry Point Park

Zoning

Figure 2

Office: 0 Number of buildings and gross floor area of each building (sq. ft):

Other: 0 Number of buildings and gross floor area of each building (sq. ft):

Specify type(s):
N/A.

Number of stories and height of each building:
N/A.

Manufacturing/Industrial **None.**
Type of use(s):
N/A.

Number of buildings and gross floor area of each building (sq. ft.):
N/A.

Number of stories and height of each building:
N/A.

Open storage area: **N/A.** square feet.
If any unenclosed activities, specify:
N/A.

Community Facility **None.**
Number of buildings and gross floor area of each building (sq. ft.):
N/A.

Number of stories and height of each building:

N/A.

Type of community facility:

N/A.

Vacant Land

Is there any vacant land in the directly affected area? Describe briefly.

The site is primarily unimproved and undeveloped park land and remapped as park land.

Publicly Accessible Open Space

Is there any existing publicly accessible open space in the directly affected area? Describe briefly.

Yes. The project site is primarily unimproved and undeveloped parkland. The ballfield and basketball court in the northeastern portion of the site occupy approximately 274,000 sq. ft., and the composting area and organic recycling facility occupy approximately 414,000 sq. ft.

Does the directly affected area include any mapped City, State or Federal parkland or any mapped or otherwise known wetland?

Yes. The project site is mapped City parkland, except for those portions of Schley and Emerson Avenues proposed to be demapped.

Other Land Use

Gross floor area: _____ square feet.

Number of stories: _____

Type of use:

4. EXISTING PARKING:

Garages: **None.**

Number of spaces accessible to public: **0**

Number of spaces not accessible to public: **0**

Attended or non-attended? **N/A**

Operating hours: **N/A**

Self-park: **N/A**

Non-self-park (please specify): **N/A.**

Lots: **None.**

Number of spaces accessible to public: **0**

Number of spaces not accessible to public: **0**

Attended or non-attended? **N/A.**

Operating hours: **N/A.**

Self-park: **N/A.**

Non-self-park (please specify): **N/A.**

Other: (including street parking). Please specify and provide same data as for lots and garages, as appropriate

5. STORAGE TANKS: **None**

Gas or service stations: _____

Oil storage facility: _____

Other, specify:

Size of tanks:

Last NYFD inspection date:

Location and depth of tanks:

6. CURRENT USERS:

Number of residents: 0

Number and type of businesses:

One organic recycling and composting facility. Both are run by the Department of Parks & Recreation and will be relocated.

Number and type of workers by business:

Fewer than 10 workers.

Number and type of non-residents who are not workers:

0.

7. HISTORIC AND ARCHAEOLOGICAL RESOURCES:

Answer the following two questions with regard to the directly affected area, lots abutting that area, lots along the same blockfront or directly across the street from the same blockfront, and, where the directly affected area includes a corner lot, lots which front on the same street intersection. (See Section F of the EAS Guidebook.)

Do any of the areas listed above contain an improvement, interior, landscape feature, aggregate of landscape features, or archaeological resource that:

(a) has been designated (or is calendared for consideration as) a New York City Landmark, Interior Landmark or Scenic Landmark;
(b) is within a designated New York City Historic District;
(c) has been listed on, or determined eligible for, the New York State or National Register of Historic Places;
(d) is within a New York State or National Register Historic District; or
(e) has been recommended by the New York State Board for listing on the New York State or National Register of Historic Places?

Identify any resource.

No. See Attachment N, "Archaeological Sensitivity."

Do any of the areas listed in the introductory paragraph to 7 on page 19 contain any historic or archaeological resource, other than those listed in response to the previous question? Identify any resource.

No.

8. WATERFRONT:

Is any part of the directly affected area within the City's Waterfront Revitalization Program boundaries? (A map of the boundaries can be obtained at the Department of City Planning bookstore.) If yes, append a map showing the directly affected area as it relates to such boundaries. A map requested in other parts of this form may be used. (See Section K of the EAS Guidebook.)

Yes. See Figure 4 and Attachment H, "Waterfront Revitalization Program."

C. PROJECT DESCRIPTION

This subpart should generally be completed only if your action includes a specific or known development at particular locations.

1. PROPOSED USES:

Residential

Total no. of dwelling units:	**4 in 1 structure.**	
Number of low-to-moderate income units:	**0**	
Gross floor area:	**4,500**	square feet.

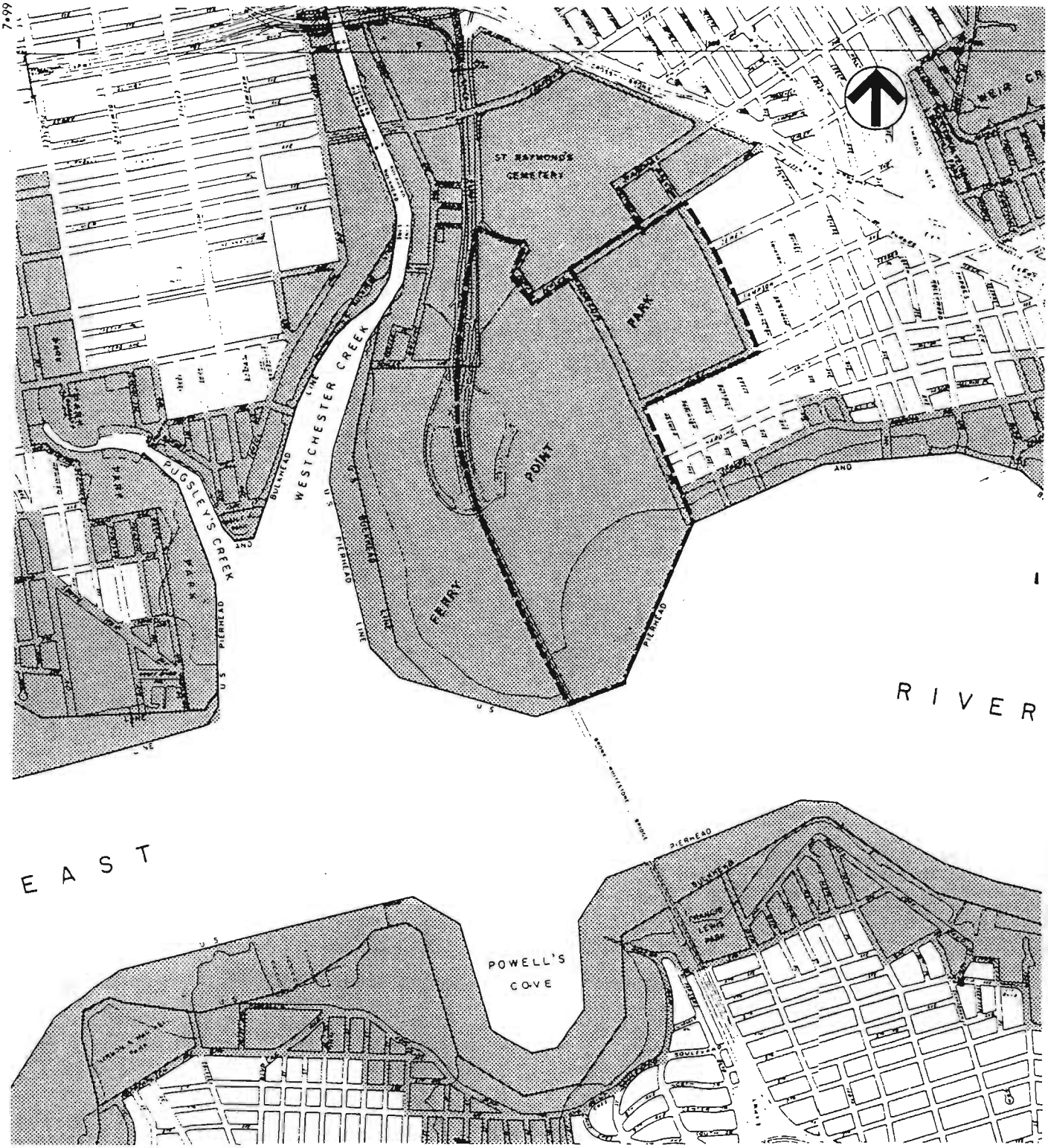

Project Site Boundary

0 2000 FEET
SCALE

SOURCE: NYC DCP

Ferry Point Park

Coastal Zone Boundary

Figure 4

Number of stories: 2

Describe type(s) of residential structures:

One proposed structure for facility managers residence. One to two units would be approximately 1,000-2,000 square feet; the remaining units would be approximately 600-800 square feet.

Commercial **See description of proposed buildings and uses under "Publicly Accessible Open Space."**

Retail: **None** Number of buildings and gross floor area of each building (sq. ft):

Office: **0** Number of buildings and gross floor area of each building (sq. ft):

Other: **0** Number of buildings and gross floor area of each building (sq. ft):

Specify type(s):

Number of stories and height of each building:

Manufacturing/Industrial **None.**

Type of use(s):

N/A.

Number of buildings and gross floor area of each building (sq. ft.):

N/A.

Number of stories and height of each building:

N/A.

Open storage area: N/A square feet.

If any unenclosed activities, specify:

N/A.

Community Facility

Number of buildings and gross floor area of each building (square feet):

N/A.

Number of stories and height of each building:

N/A.

Type of community facility:

N/A.

Vacant Land

Is there any vacant land in the directly affected area? Describe briefly.

No.

Publicly Accessible Open Space

Is there any existing publicly accessible open space to be removed or altered? If yes, describe:

Yes. The proposed project would provide a public recreation center which would include a waterfront park; community park; comprehensive golf facility (including an 18-hole tournament quality golf course, driving range, practice areas, clubhouse with full-service pro shop/snack bar/locker rooms of approx. 7,500 square feet, maintenance building of approx. 7,500 square feet, and facility managers residence of approx. 4,500 square feet); boathouse grill restaurant of approx. 13,000 square feet; and fine dining/banquet facility of approx. 25,000 square feet in the largely undeveloped and underutilized eastern portion of Ferry Point Park. The portion of Ferry Point Park where this public recreation center will be developed will be altered, and the portions of the two streets to be demapped—Emerson and Schley Avenues—will become additional parkland. The site currently contains an organic recycling and composting facility, informal dirt bike paths, an informal model airplane facility, and a ballfield and basketball court.

Any publicly accessible open space to be added? If yes, describe:

Yes. The portions of the two streets to be demapped—Emerson and Schley Avenues—will add approximately 266,500 square feet of additional parkland.

Other Land Use **None.**

Gross floor area: N/A square feet.

Number of stories: N/A

Type of use:

2. PROPOSED PARKING:

Garages **None.**

Number of spaces accessible to public: 0

Number of spaces not accessible to public: 0

Attended or non-attended? **N/A.**

Operating hours: **N/A.**

Self-park: **N/A.**

Non-self-park (please specify): **N/A.**

Lots:

Number of spaces accessible to public: **965 self-park spaces (including 20 spaces for maintenance vehicles), of which 350 self-park spaces located near the fine dining/banquet facility can be converted to 500 valet-parking spaces providing a total of 1095 total spaces. See Table 1.**

Number of spaces not accessible to public: 0

Attended or non-attended? **Both will be provided.**

Operating hours: **To be determined.**

Self-park: **945 spaces**

Non-self-park (please specify):

350 self-park spaces can be converted to 500 valet parking spaces for the banquet facility.

Other: (including street parking). Please specify and provide some data as for lots and garages, as appropriate.

N/A.

Number and location of proposed curb cuts:

N/A.

3. PROPOSED STORAGE TANKS:

Gas or service stations: _____

Oil storage facility: _____

Other, specify:

Size of tanks: **2-2,500 gallon tanks (1 for diesel and 1 for gasoline at maintenance building).**

Location and depth of tanks **Above ground, double-walled tanks**

4. PROPOSED USERS:

Number of residents: **Up to 10.**

Number and type of businesses:

Pursuant to a Request for Proposals (RFP) process, Ferry Point Partners, LLC, is the designated licensee for the public recreation facility. Ferry Point Partners, LLC, subject to approval from the Department of Parks & Recreation, may designate other entities to operate portions of the proposed facilities.

Number and type of workers for each business:

Restaurant and catering facility uses: 300 workers. Golf course and driving range: 45 workers.

Number and type of non-residents who are not workers:

Recreation facility users are estimated to be a maximum of 1,300 per day (750 at the waterfront park, 250 at the community park, and 300 at the golf course and driving range).

Table 1

Parking by Location and Use

Parking Location and Use	Number of Spaces
Golf facility	350 self-park
Boathouse grill restaurant	125 self-park
Waterfront park	120 self-park
Fine dining/banquet facility	350 self-park convertible to 500 valet-park
Maintenance building	20 self-park for staff only
Total	965 self-park (1,115 self/valet-park)

5. HISTORIC AND ARCHAEOLOGICAL RESOURCES:

Will the action affect any historic or archaeological resource identified in response to either of the two questions at number 7 on pages 19 and 20? Describe briefly.

No. See Attachment N, "Archaeological Sensitivity."

6. DISPLACEMENT:

Will the action directly displace specific business or affordable and/or low income residential units? Describe briefly. (See Section C of the EAS Guidebook.)

No.

7. CHANGES TO EXISTING COMMUNITY FACILITIES:

Will the action directly eliminate, displace or alter public or publicly funded community facilities such as educational facilities, libraries, hospitals and other health care facilities, day care centers, police stations, or fire stations? (See Section D of the EAS Guidebook.)

The organic recycling and composting facility will be relocated. DPR will use its best efforts to relocate the informal model airplane facility to another site.

D. ZONING INFORMATION

What is the zoning classification(s) of the directly affected area?

The project site is mapped New York City park land.

What is the maximum amount of floor area that can be developed in the directly affected area under the present zoning? Describe in terms of bulk for each use.

N/A.

What is the proposed zoning of the directly affected area?

There is no proposed change in zoning.

What is the maximum amount of floor area that can be developed in the directly affected area under the proposed zoning? Describe in terms of bulk for each use.

N/A.

What is the predominant land uses and zoning classifications within a ¼-mile radius of the proposed action?

Predominant land uses within a ¼-mile radius include residential, commercial and manufacturing uses, and a cemetery in R4, C1-4, C3, and M1-1 zoning classifications. Additional zoning classifications within a ½-mile radius include M1-2, M2-1, and M3-1.

E. ADDITIONAL INFORMATION

Attach any additional information as may be needed to describe the action. If your action involves changes in regulatory controls that affect one or more sites not associated with a specific development, it is generally appropriate to include here one or more reasonable development scenarios for such sites and, to the extent possible, to provide information about such scenario(s) similar to that requested in subpart C on pages 20-24 above.

F. ANALYSES

Attach analyses for each of the impact categories listed below (or indicate where an impact category is not applicable). For localized actions, sections B through N of the EAS Guidebook set forth methodologies developed by the City to be used in analyses prepared for the listed categories. Other methodologies developed or approved by the lead agency may also be utilized. If a different methodology is contemplated, it may be advisable to consult with OEC. For areawide/programmatic actions, consult section A of the guidebook. You should also attach any other necessary analyses or information relevant to the determination whether the action may have a significant effect on the

environment, including, where appropriate, information on combined or cumulative impacts, as might occur, for example, where actions are interdependent or occur within a discrete geographical area or time frame.

If you believe that a positive declaration is appropriate because the action may have a significant effect on the environment, you may indicate that here and explain briefly. In that case, the analyses otherwise required by this subpart do not have to be submitted (unless the lead agency specifically requests them).

See Attachments.

Neighborhood Character **See Attachments.**	Section B of the EAS Guidebook
Socioeconomic Analysis/Displacement **See page 26a.**	Section C of the EAS Guidebook
Community Facilities **See page 26a.**	Section D of the EAS Guidebook
Open Space **See page 26a.**	Section E of the EAS Guidebook
Historic and Archaeological Resources **See page 26b.**	Section F of the EAS Guidebook
Transportation **See Attachments.**	Section G of the EAS Guidebook
Air Quality **See Attachments.**	Section H of the EAS Guidebook
Infrastructure* and Energy Impacts **See Attachments.**	Section I of the EAS Guidebook
Natural Resources **See Attachments.**	Section J of the EAS Guidebook
Waterfront Revitalization Program **See Attachments.**	Section K of the EAS Guidebook
Hazardous Materials **See Attachments.**	Section L of the EAS Guidebook
Noise **See Attachments.**	Section M of the EAS Guidebook
Solid waste **See Attachments.**	Section N of the EAS Guidebook

* For purposes of this form, infrastructure refers only to the means by which wastewater is discharged and drinking water is supplied.

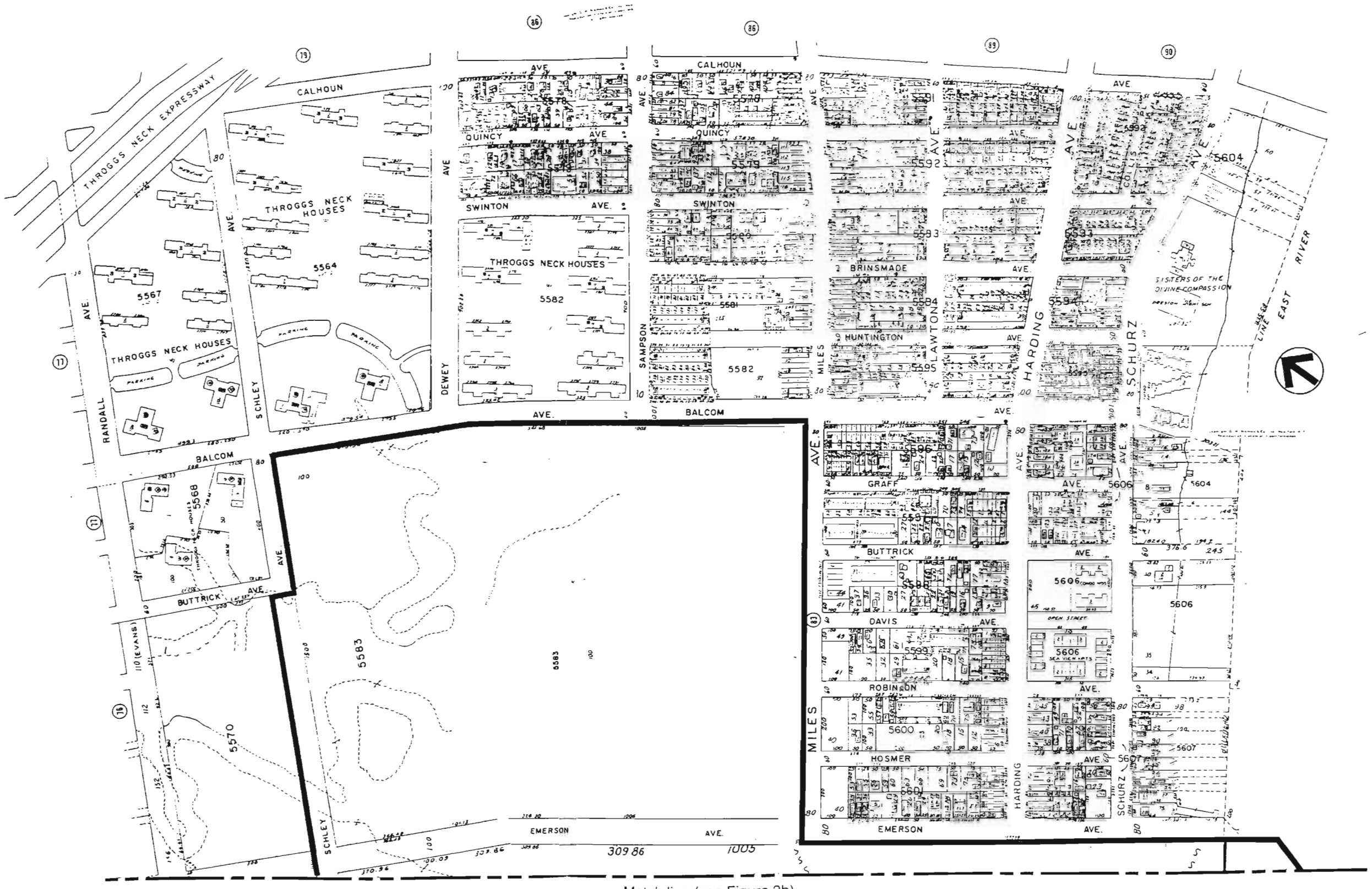

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Project Site Boundary

Ferry Point Park

Sanborn Map (North)

Figure 3a

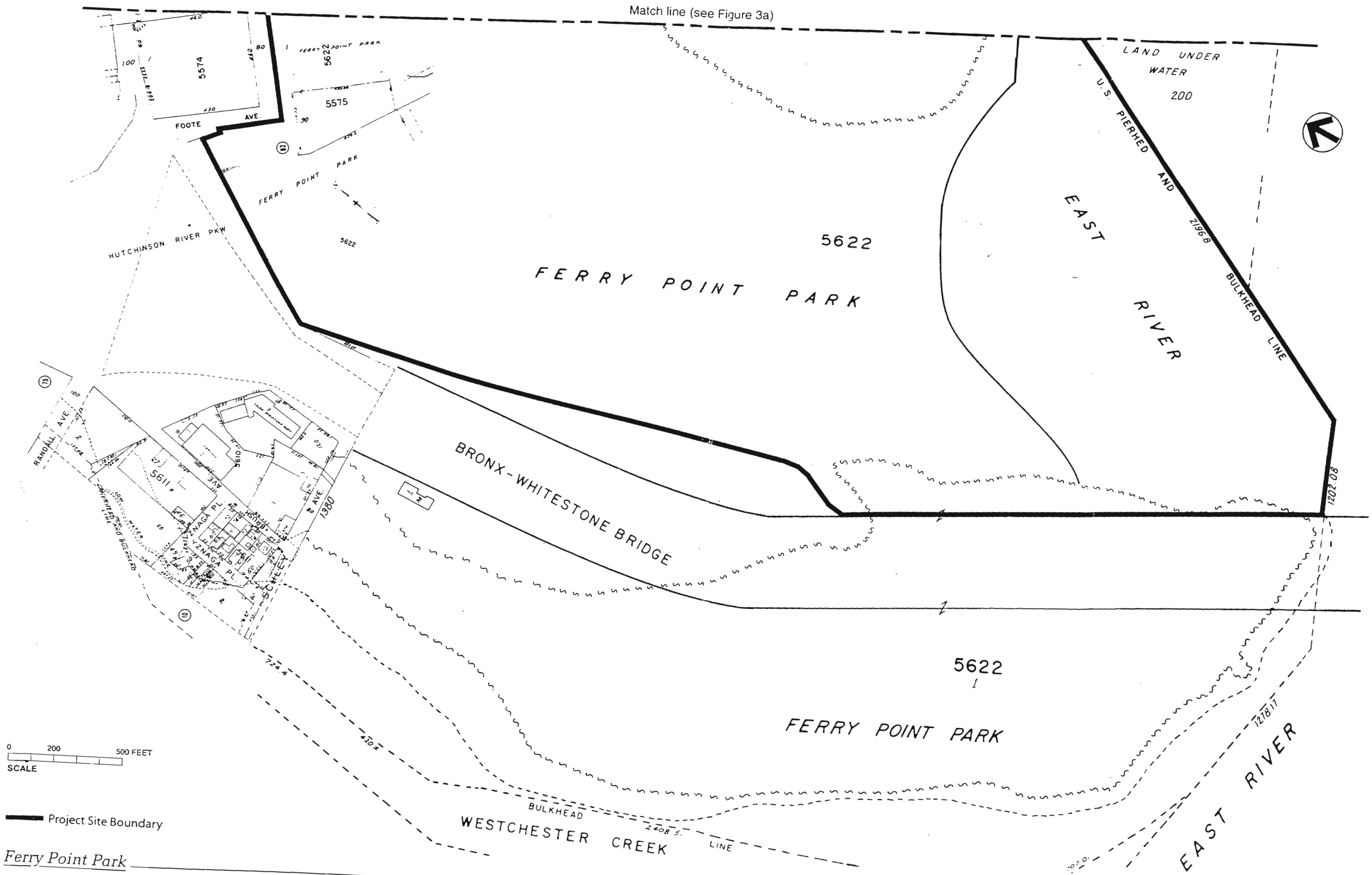

Ferry Point Park

Sanborn Map (South)

Figure 3b

Socioeconomic Conditions

According to the *CEQR Technical Manual*, a socioeconomic assessment should be conducted if an action may reasonably be expected to create substantial socioeconomic changes within the area. The proposed project would not result in the direct displacement of residential units or businesses, nor would it result in the development of new residential units or commercial space. Therefore, no adverse effects are anticipated, and no further analysis of socioeconomic conditions is required.

Community Facilities

The proposed project would not displace any public or publicly funded community facilities. However, the project would generate approximately 345 new workers to the area. The proposed project would not affect schools, libraries, hospitals, or day care centers. The project is not expected to affect the ability of the local police or fire department to provide protection services. Furthermore, the project would develop an approximately 217-acre public recreation facility, and, with the demapping of Emerson Avenue between Miles and Schley Avenues and of Schley Avenue between Buttrick and Emerson Avenues, would add approximately 6 acres of new parkland. Therefore, no impacts to community facilities are anticipated with this project.

Open Space

The proposed action would not displace any public or private open space, nor increase the residential population of the area. The demapping of portions of Emerson and Schley Avenues would add approximately 6 acres of new parkland. In addition, the licensee would create a waterfront park of approximately 19.5 acres, a community park of approximately 7 acres, and a comprehensive public golf facility of approximately 195.5 acres in an area of Ferry Point Park which is largely undeveloped and unused. Therefore, no adverse impacts to open space are expected.

Shadows

The support poles for the netting for the driving range would range from approximately 50 to 150 feet in height. These poles would be approximately 100 feet apart. In addition, the driving range may include a removable dome of approximately 120 feet in height that would be utilized during the winter months. The maximum length of the shadow cast by either the netting structure or the removable dome would be approximately 645 feet in length and would occur during a very short period in December. During the rest of the year, the length of the shadow would be significantly smaller than that length. Even during this brief period, the shadows would not affect any sensitive land uses, parkland, or open space other than the proposed recreation facility.

Historic and Archaeological Resources

Aerial photos of the project site taken in 1951 show that large portions of the project site were located either under water in the East River or were land being created by landfill. (See Attachment G, "Hazardous Materials," for historic aerial photographs.) The site was in operation as a municipal solid waste landfill from before 1951 to the early 1960's. The proposed project would introduce approximately 700,000-800,000 cubic yards of fill, of which, approximately 600,000-700,000 would be new fill brought to the site, atop the existing landfill. It is not expected that this proposed project would require excavation to the soils into the waste material layer. Therefore, no adverse impacts on archaeological resources are expected (see Attachment N, "Archaeological Sensitivity").

In terms of historic or architectural resources, there are no significant structures on the project site. The adjacent Bronx-Whitestone Bridge built in 1939 was one of many bridges built by Robert Moses. It is a suspension bridge designed by Othmar Ammann, one of the great bridge designers of this century. However, it is not listed nor determined eligible for listing on the State and National Registers, nor is it a New York City Landmark. None of the residential structures in the surrounding neighborhoods are listed or determined eligible for listing, nor are they New York City Landmarks. Therefore, no impacts to historic resources are anticipated. However, it should be noted that Robert Moses's original plans for the area had proposed a golf course at the project site which would be realized as part of the proposed action.*

Construction Impacts

The proposed project would be completed in 30 months. Construction of the proposed project would have the potential for adverse impacts in terms of traffic, air quality, noise, and soils and hazardous materials. In terms of traffic, impacts are expected to be minimal because access to the project site would be via the Hutchinson River Parkway Service Road, and parking for workers and material storage will be provided on-site. In terms of air quality, appropriate control measures will be taken to minimize fugitive dust emissions. In terms of noise, the project would be required to comply with applicable federal, state, and city control measures; construction activities will be limited to weekdays between the hours of 7 AM and 6 PM, and construction material will be handled and transported in such a manner as to not create unnecessary noise. In terms of soils and hazardous materials, appropriate control measures will be utilized to eliminate any adverse health effects, and a Health and Safety plan will be utilized to protect worker safety. These measures are described in Attachment G, "Hazardous Materials." With these measures, no significant adverse impacts would be expected due to construction activities.

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* Robert Moses, Commissioner of the City of New York Department of Parks, letter to the Honorable Vincent L. Impellitteri, Mayor of the City of New York, 9 October, 1950; excerpt from "The Reclamation of Park Areas by Sanitation Fill and Synthetic Top Soil," City of New York Department of Parks & Recreation, New York, NY, 1950.

Preparer name: **Stephen Rosen, Ph.D.**

Preparer title: **Principal, Allee King Rosen & Fleming, Inc.**

Preparer signature:

Date: July 30, 1999

Principal: New York City Department of Parks & Recreation

Name of principal representative: Joanne Immersoy

Title of principal representative: Assistant Commissioner

Signature of principal representative: Joanne Immersoy

Date: 7/30/99

NOTE: Any persons who knowingly makes a false statement or who knowingly falsifies any statement on this form or allows any such statement to be falsified shall be guilty of an offense punishable by fine or imprisonment or both, pursuant to section 10-154 of the New York City Administrative Code, and may be liable under other applicable laws.

PART III: ENVIRONMENTAL ASSESSMENT AND DETERMINATION

The lead agency should complete this Part after Parts I and II have been completed. In completing this Part, the lead agency should consult 6 NYCRR §617.11 (attached), which contains the State Department of Environmental Conservation's criteria for determining significance.

The lead agency should ensure the creation of a record sufficient to support the determinations in this Part. The record may be based upon analyses submitted by the applicant with Part II of the EAS. The EAS Guidebook sets forth methodologies developed by the City to be used in analyses prepared for the listed categories. Alternative or additional methodologies may be utilized by the lead agency.

1. For each of the impact categories below, consider whether the action may have a significant effect on the environment with respect to that impact category. If it may, answer yes.

Neighborhood Character	**No**
Socioeconomic Impacts/Displacement	**No**
Community Facilities	**No**
Open Space	**No**
Historic and Archaeological Resources	**No**
Transportation	**No**
Air Quality	**No**
Infrastructure and Energy	**No**
Natural Resources	**No**

Waterfront Revitalization	**No**
Hazardous Materials	**No**
Noise	**No**
Solid Waste	**No**

2. Are there any aspects of the action relevant to the determination whether the action may have a significant effect on the environment, such as combined or cumulative impacts, that were not fully covered by other responses and supporting materials? If there are such aspects, explain them and state where, as a result of them, the action may have a significant effect on the environment.

   None.

3. If the lead agency has determined in its answers to questions 1 and 2 of this Part that the action will have no significant effect on the environment, a negative declaration is appropriate. The lead agency may, in its discretion, further elaborate here upon the reasons for issuance of a negative declaration. **Based on the EAS, DPR finds that the proposed actions would not have a significant adverse effect on the environment, and therefore determines, as lead agency under CEQR/SEQRA to issue a Negative Declaration for the proposed actions (see attached findings following page 31).**

4. If the lead agency has determined in its answers to questions 1 and 2 of this Part that the action may have a significant effect on the environment, a conditional negative declaration (CND) may be appropriate if there is a private applicant for the action and the action is not Type I. A CND is only appropriate where the mitigation measures identified will modify the proposed action so that no significant adverse environmental impacts will result. If a CND is appropriate, the lead agency should describe here the conditions to the action that will be undertaken and how they will mitigate potential significant impacts.

5. If the lead agency has determined that the action may have a significant effect on the environment, and if a conditional negative declaration is not appropriate, then the lead agency should issue a positive declaration. Where appropriate, the lead agency may, in its discretion, further elaborate here upon the reasons for issuance of a positive declaration. In particular, if supporting materials do not make clear the basis for a positive declaration, the lead agency should describe briefly the impacts it has identified that may have a significant effect on the environment.

LEAD AGENCY CERTIFICATION

Preparer name: **Stephen S. Rosen, Ph.D.**

Preparer title: **Principal, Allee King Rosen & Fleming, Inc.**

Preparer signature:

Date: **September 30, 1999**

Name of lead agency representative: **Joanne G. Imohiosen**

Title of lead agency representative: **Assistant Commissioner, NYC DPR**

Signature of lead agency representative:

Date: **September 30, 1999**

FERRY POINT PARK FINDINGS

Description of the Proposed Actions

The New York City Department of Parks and Recreation (DPR) proposes to develop a 222-acre regional public recreation facility at the eastern portion of Ferry Point Park in the Bronx. The project site is bounded by the Bronx-Whitestone Bridge to the west, Balcom, Miles, and Emerson Avenues to the east, Schley Avenue and St. Raymond's Cemetery to the north, and the East River to the south. Subject to satisfactory completion of applicable environmental reviews (including the City Environmental Quality Review [CEQR], and State Environmental Quality Review Act [SEQRA]), land use reviews (including the City's Uniform Land Use Review Procedure [ULURP]), and compliance with other applicable laws and approvals, DPR proposes to enter into a license agreement with Ferry Point Partners, LLC, to develop, construct, and operate the new public recreation facility. The proposed licensee was selected by DPR following the completion of an extensive Request for Proposals (RFP) process.

The project site, which comprises the eastern portion of Ferry Point Park, is a largely unused and undeveloped former landfill that accepted municipal solid waste from before 1951 to the 1960's, and was closed and covered in the mid-1960's, with additional closure operations conducted in the early 1980's. The project site now contains an organic recycling and composting facility (operated by DPR) that is located in the northwestern portion of the project site, informal dirt bike paths, an informal model airplane area in the western portion of the project site, and a ballfield and basketball court located on the northeastern portion of the project site.

The project would permit the development of a 19.5-acre waterfront park with walkways and a boathouse grill, a 7-acre community park with both active and passive recreational facilities, a comprehensive golf facility (with an 18-hole golf course, clubhouse, driving range, practice areas, and maintenance building), and a fine dining/banquet facility at the currently undeveloped eastern portion of Ferry Point Park. As part of the proposed project, two unbuilt and undeveloped streets—Emerson Avenue between Miles and Schley Avenues, and Schley Avenue between Buttrick and Emerson Avenues—would be demapped, adding approximately 6 acres of new parkland.

With the exception of the community park, all access to the facility would be from the west—vehicular, bicycle, and pedestrian access would be from the I-678 north- and southbound service roads under the Bronx-Whitestone Bridge. The service road under the Bronx-Whitestone Bridge, which currently is a two-way roadway, would become a two-lane, one-way roadway. Visitors would enter the site at this location, pass by a stone gateway on the entrance road, and choose to proceed either north to the golf clubhouse area, or south to the waterfront park and the boathouse grill or the fine dining/banquet facility. (Additional access for emergency vehicles would be available via Emerson Avenue to the east.) Parking would be provided at the golf facility, Boathouse Grill restaurant, fine dining/banquet facility, maintenance building, and the waterfront park to accommodate users of the proposed facilities. Pedestrian pathways would connect the proposed waterfront park to the existing Ferry Point Park located to the west of the bridge. In addition, pedestrians and bicyclists would be able to access the site through the main entrance road.

Actions

The proposed project has the following actions which will require discretionary approvals and are subject to environmental review:

- The application by DPR to the City Planning Commission (CPC) for a major concession for the development, construction, operation, management, and maintenance of a public recreation facility at Ferry Point Park, and the issuance of a license agreement by DPR to Ferry Point

Partners, LLC, for the development, construction, operation, management, and maintenance of a public recreation facility at Ferry Point Park, and;

- The application by DPR to the CPC to demap two unbuilt and undeveloped streets—Emerson Avenue between Miles and Schley Avenues, and Schley Avenue between Buttrick and Emerson Avenues—which would be incorporated into Ferry Point Park.

Findings

In order to assess the potential environmental impacts of the proposed actions, DPR has prepared, with the cooperation and assistance of Ferry Point Partners, LLP, a detailed Environmental Assessment Statement (EAS) for the proposed action. Drafts of the EAS were provided to the New York City Departments of City Planning, Environmental Protection, Transportation, Sanitation, Fire, and the staff of the Landmarks Preservation Commission, and to the New York State Departments of Environmental Conservation, and Transportation, and the staff of the Triborough Bridge and Tunnel Authority, for review. DPR staff also met with representatives of all such departments and received comments from most of such agencies. As a result, DPR is satisfied that the final EAS identifies the relevant areas of environmental concern associated with the Ferry Point Park proposal and takes a hard look at each of these areas of potential environmental impact.

Based on the EAS, and for the reasons stated below, DPR finds that the proposed actions would not have a significant adverse effect on the environment, and therefore determines, as lead agency under CEQR/SEQRA, to issue a Negative Declaration for the proposed actions.

Potential Environmental Effects

Land Use, Zoning, and Public Policy. The project site lies under and to the east of the Bronx-Whitestone Bridge in the eastern portion of Ferry Point Park. Currently, the majority of project site is unimproved and undeveloped parkland, and is generally inaccessible to the public (portions of the park are fenced off). However, DPR operates an organic recycling and composting facility on approximately 414,000 square feet at the northwestern corner of the site, and occupies approximately 274,000 square feet of open field at the northeastern corner of the site, including a community ballfield and basketball court. Informal uses include dirt bike paths and a model airplane area on the western portion of the site.

Uses within the ½ mile study area (bounded roughly by the Westchester Creek on the west, Lafayette Avenue on the north, East Tremont Avenue on the East, and the East River on the south) are primarily residential to the north and east of the project site, and commercial and industrial to the west of the project site. The project site is mapped as City parkland and is therefore not within a zoning district. Within a ½-mile radius of the project site, zoning classifications include residential R4, commercial C1-4 and C3, and manufacturing M1-1, M1-2, M2-1, and M3-1. The project site is located in Community Board 10.

The proposed project would change the site by creating a regional public recreation facility on the currently undeveloped and generally publicly inaccessible portion of Ferry Point Park. The proposed project complements the existing park use to the west of the Bronx-Whitestone Bridge, and would have a positive impact relative to land use. DPR will endeavor to relocate the organic recycling and composting facility and the model airplane area, that are currently located on the project site, to nearby locations. The existing community ballfield and basketball court will be relocated and expanded in the new community park planned as part of the project. The proposed project would not impact zoning at the project site or in the study area, and would be consistent with public policy for the site.

Archaeological Resources. The proposed project would not require excavation into or below the waste material layer, and consequently, based upon an archaeological assessment, no significant adverse impact is expected to archaeological resources.

Visual Resources. The site is almost entirely undeveloped, with the exception of a organic recycling and composing facility near the bridge on the western portion of the site, an informal model airplane field in the center of the site, and a community park located along Balcom Avenue at Schley Avenue on the northeastern side of the site. On the western and northern sides of the site, the Bronx-Whitestone Bridge and St. Raymond's Cemetery are physical barriers separating the site from more distant views in these two directions. Balcom, Dewey, and Harding Avenues are the main conduits through the study area east and south of the project site.

The proposed Ferry Point Park development would improve the visual character of the project site in a number of ways and from a number of viewpoints. There would be three distinct sections of the park: a golf facility occupying the majority of the site, a waterfront park in the section of the site adjacent to the East River, and a community park near Balcom and Schley Avenues. Each of these sections of the former landfill site would be redeveloped and landscaped in accordance with design standards for such facilities and in consideration of the sensitivity of the neighboring viewers. The proposed project would create a regional public recreation facility with landscaping, and would represent a substantial visual improvement over the existing landfill site with its unkempt natural vegetation. In addition, the landscaping and maintenance of the park's border with the neighborhood, in combination with the removal of the debris and unkempt vegetation, is expected to improve views of the site from nearby residences. Some residents in higher structures to the east of the project site may see the driving range's removable dome (which would only be in place during winter months); however, the dome would obstruct views of the Bronx-Whitestone toll plaza and the I-678 approaches to the toll plaza. This would not be a negative visual impact. Overall, given the visual screening and buffers provided as part of the project, there would be no significant adverse impacts to the visual or urban design character of the surrounding area.

Neighborhood Character. Currently, the project site is composed primarily of undeveloped park land, with the exception of an organic recycling and composting facility operated by the DPR at the northwestern corner of the site, and a ballfield and basketball court at the northeastern corner of the site. Informal uses on the site include dirt bike trails and a model airplane field. The rest of the project site is generally covered with vegetation, and the rocky waterfront area at the southeastern edge of the site along the East River is strewn with debris. Portions of the site are surrounded by chain link fence. Surrounding the project site are the currently developed portion of Ferry Point Park and industrial, commercial, and residential uses (west of the Bronx-Whitestone Bridge), St. Raymond's Cemetery (to the north of the project site), and residential uses (to the east of the project site). Traffic conditions in the area generally reflect the study area's uses and location near the Bronx-Whitestone Bridge, with connections to the Throgs Neck Bridge and the Cross-Bronx Expressway. Streets within the study area have a mixed character, including lightly traveled local streets (e.g., Balcom, Schley Avenues) and a major roadway (East Tremont Avenue) that provides access to and from the Throgs Neck Bridge. With respect to noise, the project site and its immediate environs are subject to frequent flyovers by aircrafts traveling to and from La Guardia Airport. As a result, the entire study area experiences marginally unacceptable noise levels. However, the residential portion of the study area, which is east of the project site, experiences marginally acceptable noise levels..

The proposed project would not cause significant adverse impacts in any of the following elements that make up the character of the neighborhood: land use and zoning, visual resources, traffic, or noise. The project would change the land use and visual character of the project site; bring new activity to the currently undeveloped portion of Ferry Point Park; and would increase traffic, air pollutant concentrations, and noise levels. However, as discussed in various sections of the EAS, the

proposed project would not have any significant adverse impacts in any of these areas. Overall, the proposed project, which would expand park use in the area by upgrading the community park and adding the waterfront park, would not have any significant effect on the neighborhood character of the surrounding area.

Natural Resources. Currently, the project site supports a mixture of common reed (*Phragmites australis*), clusters of trees (tree of heaven (*Ailanthus altissima*), black locust (*Robinia pseudoacacia*), willow (*Salix* sp.), cherry (*Prunus* spp), and mixed grasses growing on landfill. The site has seven distinct categories of plant communities/land use: two types of urban meadow, developed land, recreational land, urban woodland, emergent wetland, and estuarine intertidal flat. Most of the site is covered by the two urban meadow communities—differentiated by the composition of plant species. The species composition of the plant communities reflects the site's disturbed nature and urban setting. The organic composting and recycling facility, the existing community park, and the informal model airplane area are located in the developed and recreational portions of the site. Approximately 12 acres are covered with wooded areas, with approximately 600 trees with diameters of 6 inches or more. The estuarine intertidal community is devoid of vascular plants, except for a very small patch of smooth cordgrass (*Spartina alterniflora*) proximate to the southern tip of the site. New York State Department of Environmental Conservation (DEC) freshwater wetlands maps do not indicate the presence of any DEC freshwater wetlands on the site. There are, however, three very small isolated freshwater wetlands located in the northwestern corner of the site, that total approximately 11,815 square feet (0.27 acres). This portion of the site will be cleared, filled, and graded as part of the proposed project. The filing of these wetlands will be performed in accordance with Nationwide Permit No. 26 per a letter of authorization from the Corps of Engineers. The loss of this very small amount of wetlands would not be significant.

Due to the uniformity of the plant communities covering extensive portions of the site, particularly the common reed dominated portion of the urban meadow community, and frequent intrusions by human activities, most of the wildlife species inhabiting the site tend to be habitat generalists, and can adapt to varying environmental conditions and are relatively tolerant of human activity. With respect to aquatic resources, the East River's hydrodynamics and estuarine character, coupled with the numerous municipal and industrial discharges that have operated there for many years, makes it a physically harsh environment. Therefore, many of the species using the area are tolerant of highly variable conditions. The upper East River is used as a passageway for several anadromous and estuarine fishes, and as a seasonal, temporary residence for a variety of marine species involved in more general coastal or shoreward movements.

The New York State Natural Heritage Program (NYSNHP) reports no known occurrences of rare or state-listed animals or plants, or significant natural communities for the Ferry Point Park. The NYSNHP identified one significant habitat area near the site, a waterfowl wintering area that extends along the shoreline from the Bronx-Whitestone Bridge east to the Westchester County/Bronx County border. The proposed project would not have a significant impact on this area. The U.S. Department of the Interior, Fish and Wildlife Service (USFWS) reported that the peregrine falcon (*Falco peregrinus*), formerly a federal-listed and currently a state-listed endangered species, is known to breed in the vicinity of the proposed project, and to nest at a distance greater than 1.5 miles from the eastern border of the site. The USFWS has requested and the licensee has agreed that the project will take appropriate measures to protect this species and its habitat. According, no significant adverse impacts would occur. Except for occasional transient individuals, no other federally listed or proposed endangered or threatened species under USFWS jurisdiction are known to exist in the project impact area.

By developing the proposed public recreation facility, the project would remove much of the existing vegetation on the site. However, because the site was previously a landfill, no pristine native plant

communities exist on the site. The project would replace existing ruderal plant communities with new plant communities typical of those found on manicured golf course landscapes and urban parks. In addition, the removal of vegetation associated with development will result in an unavoidable loss of wildlife habitat, such as the loss of nesting, den, loafing, and feeding sites for various wildlife species. However, this wildlife would not experience significant long-term impacts, and could find suitable replacement habitats in nearby comparable areas (e.g., Soundview Park or Pugsley Creek Park). An Integrated Golf Course Management Plan would minimize pesticide use to eliminate any significant risks to plant and remaining wildlife communities.

As noted earlier, the project would fill three small, isolated wetland areas of low diversity, comprising approximately 0.27 acres. No significant impacts to existing aquatic communities are expected to result from the proposed project.

As part of the proposed project, a tree replacement program will be developed, in coordination with the licensee, to enhance existing woodlands communities on the site. At maturity, the new trees planted as part of the tree replacement program, and other vegetation planted as part of the proposed landscaping plan, will provide a greater diversity of plant communities than the ruderal plant communities currently existing on the site. The objective of this program is to first minimize the number of trees removed as a result of project development, and then to plant new trees selected with the goal of establishing a healthier and more diverse woodlands habitat. Furthermore, native grasses will be planted in the waterfront park and between the golf course and St. Raymond's Cemetery, which could serve as new habitats. In planting of new trees, priority will be given to replacing trees onsite, followed by planting trees on the western portion of Ferry Point Park. With the planting of new trees, the tree planting program will ultimately result in higher quality vegetation communities and habitats than currently exist on the site.

Measures will be undertaken to minimize adverse effects during construction activities. Furthermore, selection and placement of fill material, the landscaping plan, the creation of lake and vegetated stormwater detention basins, and an integrated golf course management plan will be undertaken to minimize the adverse effects during operation of the facility.

Turf Management and Water Quality Risk Assessment. The project design includes an Integrated Golf Course Management Plan (IGCMP) for turf management. The IGCMP is based on the latest principles of integrated pest management (IPM). Its basic philosophy can be expressed as follows: 1) minimize the need for pesticides by growing turf quickly and keeping it healthy; 2) generally focus on controlling pests rather than eradicating them, and; 3) utilize the wide range of techniques that can be applied to prevent and minimize pest damage. The key to this holistic approach toward IPM is the judicious use of pesticides and other chemicals. A key part of the IGCMP is a risk assessment. Any potential turf chemical impacts on environmental quality will be addressed by modifying the draft management plan and/or the golf course design, as appropriate. The following protective measures/design improvements will be considered for incorporation into the site plan as appropriate:

- Turf Management Measures. Concern about some pesticides or chemicals may be addressed by using alternative pesticides or chemicals, restricting application methods or areas, and/or the establishment of special management zones.
- Civil Engineering/Drainage Plan Measures. A comprehensive drainage plan has been developed with wet and dry detention to polish the quality of stormwater before it reaches the East River. Additional areas of the course can be planted with naturalized vegetation that can receive stormwater runoff if the risk assessment indicates the need. In addition, if necessary, runoff collected in the numerous shallow drains throughout the course may be pumped to certain detention ponds to ensure longer treatment. Other options considered are construction of grassy swales and percolation areas.

An assessment of the potential effect of the proposed project on pollutant loads due to changes in impervious cover and land use was performed to determine whether the proposed project would have the potential for causing any adverse effect on water quality in the East River. The methodology allows pollutant reduction best management practices (BMPs), included as part of the project design, to be accounted for in the analysis. In addition, the proposed golf facility will utilize a turf management plan designed to decrease the use of pesticides and fertilizers and control the potential for their off-site migration. The analysis results indicate that nitrogen, phosphorous, and BOD will decrease from current loads with the proposed project, while concentrations of heavy metals will remain the same. Therefore, the proposed project would not result in any significant adverse impacts to water quality.

Overall, then, no significant adverse impacts are expected to occur to water quality or ecology as a result of the project.

Hazardous Materials. The project site is a former landfill that was operated by the New York City Department of Sanitation. Municipal solid waste was accepted at the site from before 1951 until the early 1960's, and the landfill was closed and covered in the mid-1960's, with additional closure operations conducted in the 1980's. Soil borings and soil and gas sampling showed results consistent with a municipal landfill of that age. The test programs indicated high methane concentrations at some locations at a depth of two- to three- feet below the surface of the landfill. However, negligible concentrations have been found at the surface. Waste materials test results indicated that SVOCs, PCBs, arsenic and lead are the only contaminants detected at levels exceeding risk based criteria. Soil cover test results indicated that SVOCs and arsenic exceeded risk-based criteria at a limited number of locations. The project is being designed to incorporate a number of measures to minimize exposure pathways for both methane and any soil contaminants. These include the following:

- A health and safety plan will be developed to protect workers and park users from potential exposures to harmful levels of landfill gases and soil and waste materials;
- The proposed project will be designed with a number of measures to prevent the collection of landfill gas (i.e., methane) and its potential safety and nuisance impacts. The measures will include landfill gas interception and venting systems in the vicinity of buildings, periodic low permeability soil plugs to limit gas migration in pipe trenches, conduit seals in electric conduits at handholes and building penetrations, use of special construction techniques for buried storm drain pipe, and storm drain catch basins and drain inlets which reduce the potential for landfill gas accumulation.
- Contaminants in the soils and waste materials on-site will be covered with a shaping layer (which will be used to contour the site and be comprised of excess cover materials moved from other areas of the site, and imported uncontaminated construction and demolition [C&D] materials, which meet the 6 NYCRR Part 360-7 regulations) and a final cover/topsoil layer (comprising uncontaminated soil materials from non-industrial sites which do not exceed background levels);
- The final cover/topsoil layer will be 12 to 24 inches thick in the two public parks. However in all cases a minimum of 24 inches of cover which are similar or identical to typical background soil levels would be placed in or retained for the two public parks. A minimum of 12 inches of material meeting such background levels would be placed or retained in the golf course, excluding the rough waste (out-of-bound) areas. In the rough waste areas of the golf course, a minimum of 6 inches of material meeting such background would be placed or retained; and
- Any waste materials excavated due to construction would be disposed of off-site in compliance with all applicable rules and regulations.

These measures will insure that workers and park users are not subjected to harmful or hazardous materials. Therefore, the project would not have any significant adverse impacts.

Waterfront Revitalization Program. The proposed project would develop a regional public recreation facility, including a waterfront park of approximately 19 acres, on a currently underdeveloped portion of Ferry Point Park adjacent to the East River. The facility would enhance the existing waterfront and provide additional public access to the waterfront. The proposed project would be consistent with the City's Local Waterfront Revitalization Program (LWRP) including the 44 State Coastal Zone Management Program policies and the 12 City LWRP policies.

Infrastructure. Currently, there are existing water mains around the perimeter of the project site. This area of the Bronx is served by a combined sewer system, which ultimately discharges to and is treated at the Hunts Point Sewage Treatment Plant. There are major combined sewer mains along Miles, Emerson, Balcom, and Schley Avenues. A small amount of solid waste and a small demand on energy are generated by the operations at organic recycling and composting facility.

The project will utilize the existing sewer, water and drainage systems adjacent to and throughout the project site to service the proposed golf course, parks, restaurant, banquet facility and other secondary uses. Total average daily demand from the project on the water system, and therefore on the sanitary sewer system (to be treated at the Hunts Point Sewage Treatment Plant), is estimated to be 551,066 gallons per day (gpd). The existing on-site drainage system would be expanded to accommodate additional demand generated by the proposed project. Solid waste would be handled by a private commercial operator to be retained by the licensee. The project will consume energy in the form of electricity and natural gas and will generate solid waste. Estimated demand is 1,090 kilowatts (kw) for electricity, and 5,750 cubic feet per hour (cfh) for gas, and is not expected to result in adverse impacts on the existing system.

With the proposed project, the site would be divided into seven primary drainage areas. The system is designed to mitigate runoff contaminants generated by the proposed project, using wet and dry detention basins. Areas that discharge out of the detention system and into the City's combined sewer system have been designed to include the detention volume necessary to insure that the post-development discharge rates do not exceed the estimated allowable discharge rates based on the estimated design capacity of the existing combined sewer system. The stormwater management system for the site has been designed to adequately control stormwater runoff from the site so as not to adversely affect the receiving system or the adjacent properties.

Overall, the project would not result in any significant adverse impacts on the existing infrastructure or adjacent users.

Transportation. Existing traffic volumes in the study area were based on counts collected during the weekday PM peak hour of 5 to 6 PM, the Saturday midday peak hour of 12 to 1 PM, and the Saturday PM peak hour of 5 to 6 PM. These peaks were selected based on the anticipated peak hours of the proposed project. A capacity analysis for the study area's signalized and unsignalized intersections indicates that all intersection approaches operated acceptably, at mid-range LOS D or better for the weekday PM, Saturday midday, and Saturday PM peak hours.

Based on a proposed program including a 1,000 seat fine dining/banquet facility, 400 seat boathouse grill, 18-hole public golf course, 100-stall driving range, 19.5-acre waterfront park, and 7-acre community park, the project would generate 652, 603, and 654 vehicle trips during the weekday PM, Saturday midday, and Saturday PM peak periods, respectively. The project would provide 965 parking spaces for users throughout the facility.

The following traffic improvements are proposed as part of the project:

- At the intersection of Lafayette Avenue and the I-678 southbound service road, the restriping of the westbound approach from two to three lanes (an exclusive left-turn lane and two through lanes), the addition of an exclusive left turn phase, and coordination of the westbound signal with the intersection of Lafayette Avenue and the I-678 northbound service road. Signal coordination would ensure that left-turn queues can be accommodated within available storage capacity.
- At the intersection of East Tremont Avenue and Lafayette Avenue, daylighting, which would restrict the use of up to three parking spaces at the northbound approach during the weekday PM peak period, to improve traffic flow at this location.

With these improvements, all of the study area intersections would operate at LOS C or better for Build conditions (an improvement from existing conditions), and the proposed project would not cause any significant traffic impacts.

The addition of a proposed bus stop with a shelter at the intersection of Schley Avenue and the I-678 southbound service road will be coordinated with New York City Transit. Pedestrian and bicycle access and connections would connect the park to the existing portion of Ferry Point Park and the entrance road to the public recreation facility.

Overall, the proposed development of a public recreation facility is not expected to result in any significant impacts to traffic, parking, transit, pedestrian, or bicycle conditions in the study area.

Air Quality. While operation of the proposed project would result in increased mobile source emissions in the immediate vicinity of the project site, a detailed microscale carbon monoxide analysis showed that the proposed project would not result in any exceedances of the CO standards or the New York City *de minimis* criteria, and would be consistent with the New York State Air Quality Implementation Plan. Therefore, the proposed project would not have a significant mobile source air quality impact.

The only stationary source of air pollutants associated with the proposed project would be the emissions from the oil- or gas-fired HVAC systems. The primary pollutant of concern when burning oil is sulfur dioxide, and when burning natural gas is nitrogen dioxide. Based on the methodologies in the *CEQR Technical Manual*, either case would not result in any significant stationary source air quality impacts. Because there would be no tall structures or elevated receptors adjacent to the project site, the results of this analysis show that there would be no significant air quality impacts from the proposed project's HVAC system.

Methane concentrations were not detected in the ambient air during a landfill gas survey conducted as part of the project's soil assessment. The proposed project would not change the quantity or overall concentration of this pollutant.

In sum, no significant adverse impacts to air quality are expected to result from development of the proposed project.

Noise. The residential area to the east of the project site would be most sensitive to noise associated with the proposed project. The entire project site and its immediate environs are within the 65 L_{dn} contour of La Guardia Airport, and the area is subject to frequent aircraft flyovers. Three noise receptor locations adjacent to residences on the eastern side of the project site were selected for analysis. At all three sites there were frequent overflights by aircraft. Existing noise levels at the receptor locations were relatively low at all three sites, and in terms of the New York City CEPO-CEQR standards, were in the "marginally acceptable" category. Existing noise levels in some areas of the park are above the 55 dBA L_{10} levels recommended for park use in the *CEQR Technical Manual*.

L_{10} levels in the park vary from approximately 78-80 dBA on the western edge of the park, adjacent to the Bronx-Whitestone Bridge/Hutchinson River Parkway, to approximately 52-53 dBA on interior, northern, and eastern locations, which do not have any adjacent vehicular traffic.

Project-generated traffic would increase noise levels on the feeder roadways to the project site by an imperceptible level (i.e., less than 0.2 dBA) and therefore would not result in any significant noise impacts. Noise generated by the proposed project due to three other sources—grass maintenance, including grass mowing operations, operation of the fine dining/banquet facility including noise from its parking lots, and from use of the ballfield at the community park—would result in imperceptible changes in noise levels and would not result in any significant impacts. The project would be designed so that noise from operation of all mechanical equipment, including HVAC equipment, would meet all applicable codes. The proposed project would be creating new parkland, and would conform to the CEPO-CEQR guideline levels for outdoor areas potentially sensitive to noise. Noise at the back of the fine dining/banquet facility would be minimized by the construction of an 8 to 10 foot noise barrier with landscaping along Emerson Avenue so that no significant impacts would result at nearby residences.

Conclusion. As indicated above, the proposed actions will not have any significant adverse impacts in any area of potential environmental concern and will improve environmental conditions in Ferry Point Park itself. Under these circumstances, and in accordance with CEQR/SEQRA, a Negative Declaration may be issued and no environmental impact statement need be prepared in connection with the proposed action.

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Project Description	A
Land Use, Zoning, and Public Policy	B
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Turf Management	F
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Attachment A: Project Description

A. INTRODUCTION

The New York City Department of Parks and Recreation (DPR) proposes to develop a public recreation facility at the eastern portion of Ferry Point Park in the Bronx. The project site is bounded by the Bronx-Whitestone Bridge to the west, Balcom, Miles, and Emerson Avenues to the east, Schley Avenue and St. Raymond's Cemetery to the north, and the East River to the south (see Figure A-1). Following completion of an extensive request for proposals process, DPR selected Ferry Point Partners, LLC, to develop, construct, and operate a new public recreation facility at Ferry Point Park, pursuant to a license agreement that, subject to satisfactory completion of applicable environmental reviews (including the City Environmental Quality Review [CEQR], and State Environmental Quality Review Act [SEQR]), land use reviews (including the City's Uniform Land Use Review Procedure [ULURP]), and compliance with other applicable laws and approvals, DPR proposes to enter into with that licensee. This attachment provides a description of the principal components of the proposed new public recreation facility.

B. DESCRIPTION OF EXISTING SITE

The project site, which comprises the eastern portion of Ferry Point Park, is largely unused and undeveloped. The project site is a former landfill that accepted municipal solid waste from before 1951 to the 1960's, and was closed and covered in the mid-1960's with additional closure operations conducted in the late 1980's (see discussion of site history in Attachment G, "Hazardous Materials"). The project site now contains an organic recycling and composting facility (operated by DPR) that is located in the northwestern portion of the project site, informal dirt bike paths, an informal model airplane area in the western portion of the project site, and a ballfield and basketball court located on the northeastern portion of the project site.

The project site contains vegetative communities and terrestrial wildlife that one would expect on a former landfill site—largely natural grasses and scattered stands principally of non-specimen trees, approximately 0.27 acres of freshwater wetlands, a variety of wildlife species commensurable with the habitat in an area of highly disturbed land in an urban setting, and no threatened or endangered species, other species of special concern, or special habitat areas. (See Attachment F, "Turf Management," for a discussion of natural resources.)

C. PROJECT DESCRIPTION

OVERALL SITE PLAN

The site plan for the proposed facility has been developed through a series of in-depth interviews, consultations, and meeting with community representatives, governmental representatives, and park and recreational facility experts. The proposed site plan is a result of months of research and design development to achieve a first-class recreation environment for the golfer,

the park user, and neighboring residents. The proposed project plan provides for a world-class recreation facility, including a private golf club experience for the public golfer, as well as superb public park land for the non-golfing public (see Figure A-2 for site plan).

The proposed project, which includes four major elements—waterfront park, community park, comprehensive golf facility, and fine dining/banquet facility—would together constitute a new regional park. The centerpiece of the site plan is the creation of a Jack Nicklaus signature golf course. What was once a relatively flat landfill site, overgrown with scrub grasses and dotted by a few trees, would be transformed and contoured into a tournament level golf course; new lakes would be created to provide definition to the site, a challenge to the golfer, and a bucolic atmosphere; and a landscape containing native and ornamental grasses and trees that would separate and define the out-of-play areas from the manicured tee, green, fairway, and rough areas. Where feasible, particularly in out-of-play and rough areas, native grasses and plantings would be utilized. Trees would be strategically placed throughout the course for articulation and safety precautions. The waterfront park would include walkways, plantings, a tot lot, a comfort station, and the boathouse grill for dining. The community park would replace and substantially expand existing recreational facilities for the residential neighborhood to the east of the project site, while the fine dining/banquet facility will permit park visitors and others to enjoy both fine dining and exceptional views of the East River and Manhattan in the distance.

With the exception of the community park, all access would be from the west—vehicular, bicycle, and pedestrian access would be from the I-678 north- and southbound service roads under the Bronx-Whitestone Bridge. Vehicular access/egress point to the site would be from the southeastern portion of the I-678 north- and southbound service roads under the Bronx-Whitestone Bridge, which currently is a two-way roadway and would become a two-lane, one-way roadway (see Attachment J, "Transportation"). Visitors would enter the site at this location, pass by a stone gateway on the entrance road (the crescent road), and choose to either proceed north to the golf clubhouse area, or south to the community park and the boathouse grill, waterfront park, or fine dining/banquet facility. Access for emergency vehicles would be via Emerson Avenue. Parking would be provided at each of these areas to accommodate park users. Table A-1 shows the amount of parking provided at each use.

Table A-1

Parking by Location and Use

Parking Location and Use	Number of Spaces
Golf facility	350 self-park
Boathouse grill Restaurant	125 self-park
Waterfront park	120 self-park
Fine dining/banquet facility	350 self-park convertible to 500 valet-park
Maintenance Building	20 self-park for staff only
Total	**965 self-park (1,115 self/valet-park)**

Pedestrian connections would connect the proposed waterfront park with the existing Ferry Point Park located to the west of the bridge. In addition, pedestrians and bicyclists would be able to access the project site through the same entrance road as vehicles. Bicycle racks would be provided in the waterfront park.

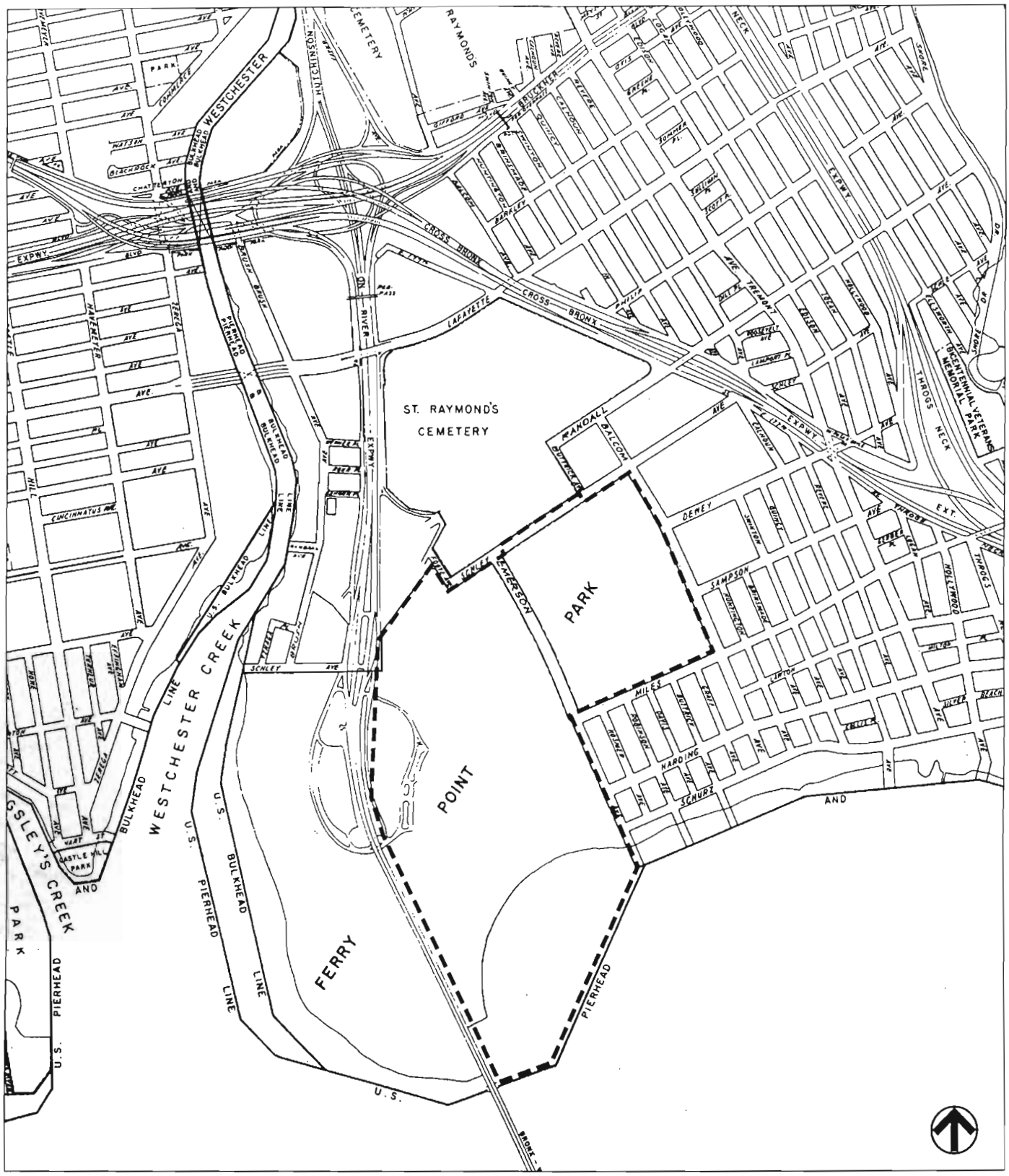

Project Site Boundary

0 1000 2000 FEET
SCALE

Ferry Point Park

Project Location

Figure A-1

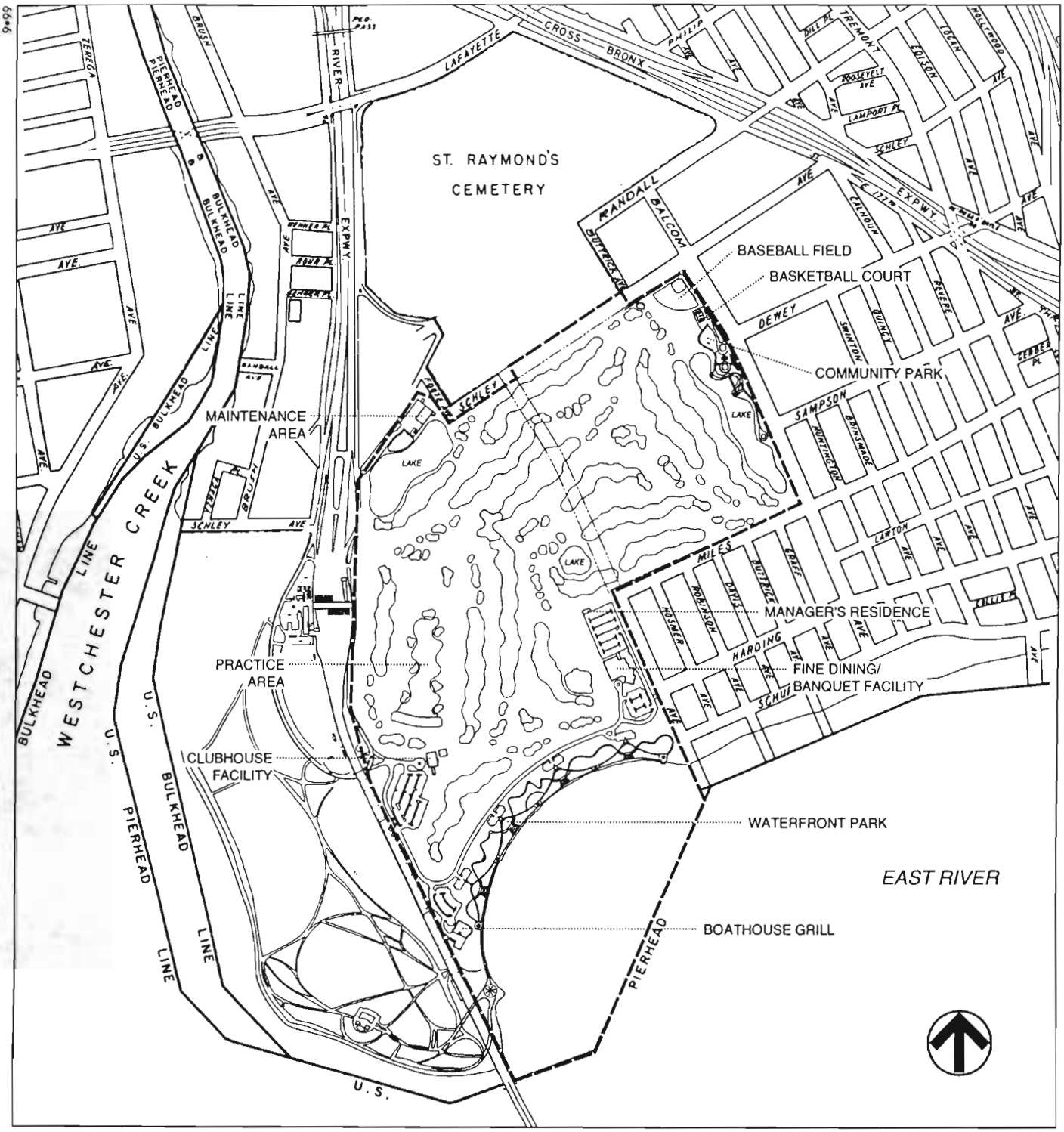

Project Site Boundary

0 400 1000 FEET
SCALE

Ferry Point Park

Site Plan

Figure A-2

The architecture and landscaping utilized in the site plan can be characterized as providing a natural, inviting feeling. The buildings have been designed to utilize natural-looking materials, with large pitched roofs with chimneys, and large dormer windows to take advantage of the spectacular views. The architecture can be classified as shingle, a somewhat eclectic, informal style of architecture that was prevalent in northeastern seaside communities at the turn of the century. Landscaping utilizes native plants and trees, where feasible. Areas adjacent to residents on the east side of the project site would all be well buffered and landscaped to provide a pleasant compatible environment.

The proposed project, like other park facilities, would be open from dawn to dusk with the following exceptions (which would be open for night use): the boathouse grill, the fine dining/banquet facility, the Golden Bear Golf Center, the clubhouse building, and possibly three holes of the golf course (holes 1, 8, and 9). The following sections discuss each of the major project elements—waterfront park, community park, comprehensive golf facility, and fine dining/banquet facility in more detail.

WATERFRONT PARK

A waterfront park of approximately 19.5 acres would be created on a depth of approximately 300 feet of land adjacent to the East River (see Figure A-3). This park would connect to the waterfront portion of the existing Ferry Point Park providing park users with a total of approximately 6,600 feet of continuous riverfront promenade (i.e., approximately 4,000 feet in the existing western portion of Ferry Point Park and approximately 2,600 feet in the proposed eastern portion of Ferry Point Park).

The park would be a passive recreation area with sitting areas and walking paths. It would contain three levels of pedestrian paths—a primary path system that would be a barrier-free waterfront promenade constructed adjacent to the existing rip-rap at the East River's edge, a secondary path system that provides pathways connecting the four parking areas to the waterfront and paths for leisurely walking, and a tertiary path system that provides a more leisurely, serene, meandering pathway system linking the primary and secondary paths. Bicycle access would be provided via the crescent road, and bicycle racks would be provided at the parking areas.

Native grasses and plantings, and natural materials would be used where feasible to provide a rustic nature. Along the paths, benches and rocks would be placed, forming natural sitting areas so that park users can enjoy the waterfront views. Picnic tables would be located in shaded areas adjacent to the two central parking areas.

Besides the amenities described above, the waterfront park would contain four kiosks, a comfort station, refreshment (and possibly other park-associated vendor) stands, a tot lot, and the boathouse grill.

The tot lot, a unique children's play environment, would be a destination play space offering small children a diverse play experience. It would be a visually stimulating environment imbued with form, texture, and color. Its spatial layout, landscape elements, and play equipment would be designed to provide year-round enjoyment and a learning experience through provocative exploration. Its design will include slides, platforms, climbing features, and other interactive learning devices.

Most important, throughout the waterfront park, users would have wonderful views of the East River, Queens, and the Bronx-Whitestone and Throgs Neck Bridges, and would have the opportunity to enjoy a natural waterfront environment.

The boathouse grill is planned to be located in the southwestern portion of the site in the waterfront park and provides a location for casual dining with spectacular views of the East River, Bronx-Whitestone Bridge, Throgs Neck Bridge, and Queens. Vehicular access to the boathouse grill would be as vehicles head south via the main entrance roadway to the project site. Park users could also access this restaurant via the pedestrian paths in the proposed waterfront park and via new connections being provided that link the portion of Ferry Point Park to the west of the Bronx-Whitestone Bridge with the proposed waterfront park to the east of the Bronx-Whitestone Bridge. Bicyclists would access the restaurant via the crescent road; bicycle racks would be available at the parking areas. The boathouse grill would be a building totaling approximately 13,000 square feet and rising to a maximum height of approximately 35 feet (see Figure A-4). It is a 1-story building that provides interior seating for approximately 250 people, and contains a large exterior porch which, during periods of good weather, could provide exterior seating for approximately 150 additional people. The building has been designed, in keeping with the overall natural theme of the project site, in the shingle style. It would utilize natural-looking materials, a pitched roof with chimneys, skylights, and large dormer windows. The building would contain a large fireplace, open bar, and five sets of bay windows with bay window seating. The building design provides a rustic, inviting feeling that allows patrons to feel that they are dining at a restaurant in a private club in New England or boathouse that is located on the water.

COMMUNITY PARK

A community park of approximately 7 acres (approximately 300 feet by 1,000 feet) would be created in the northeastern portion of the project site, on Balcom and Miles Avenues (see Figure A-5). The park would contain both active and passive recreation uses; facilities for both young and old, and a large lake with stunning park views. Community access to the this park would be provided along Schley and Balcom Avenues.

The design of the community park takes a largely underdeveloped area of Ferry Point Park, which currently contains a baseball field and basketball court, and transforms it into a viable center of recreation for the community. The interests of the community and the proximity to the proposed Ferry Point Park Golf Course have been acknowledged in the design of the Community park, such as providing:

- A new baseball field and basketball court;
- A tot lot for small children;
- A tot lawn area;
- A rolling lawn area;
- Game tables
- Areas with shaded seating, as well as areas with sunning seating;
- Areas with lakefront seating;
- Walkway and pastoral area bridging water;
- A botanical discovery path; and
- Gazebos.

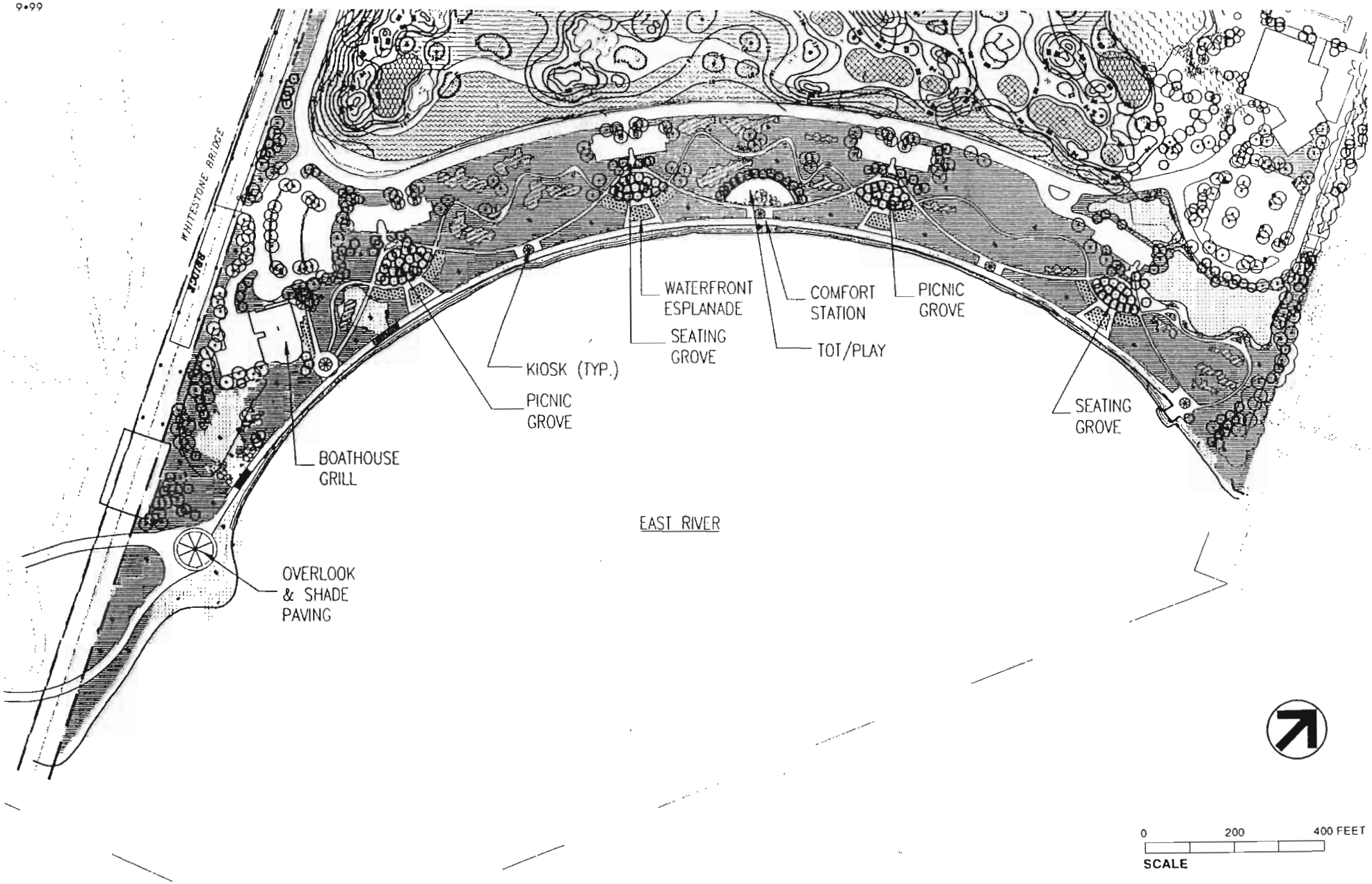

SOURCE: THOMAS BALSLEY AND ASSOCIATES

Waterfront Park

Figure A-3

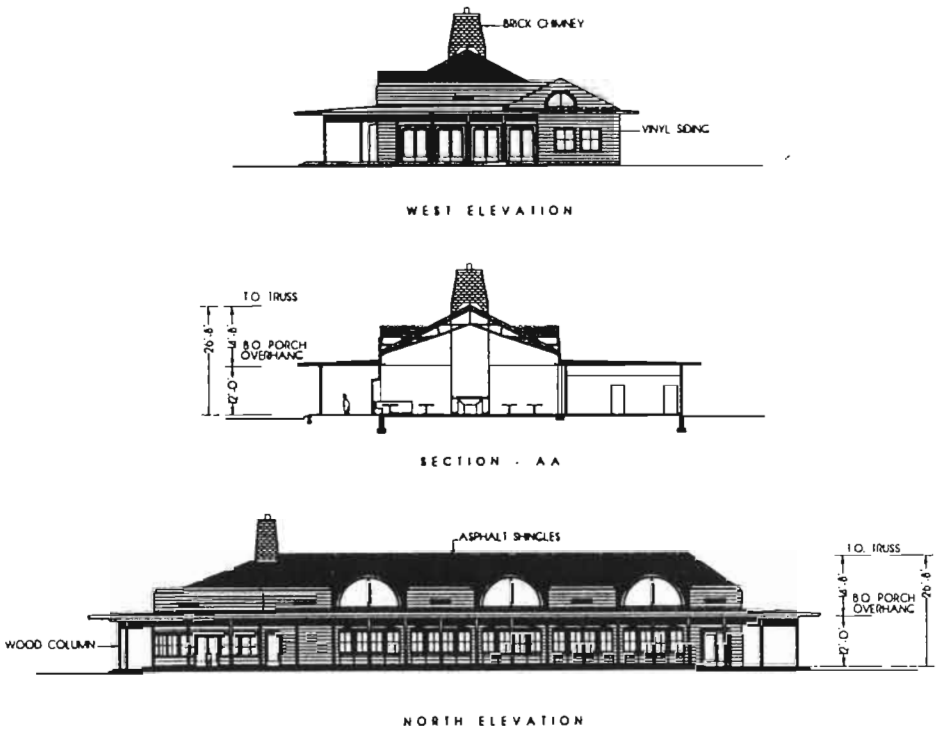

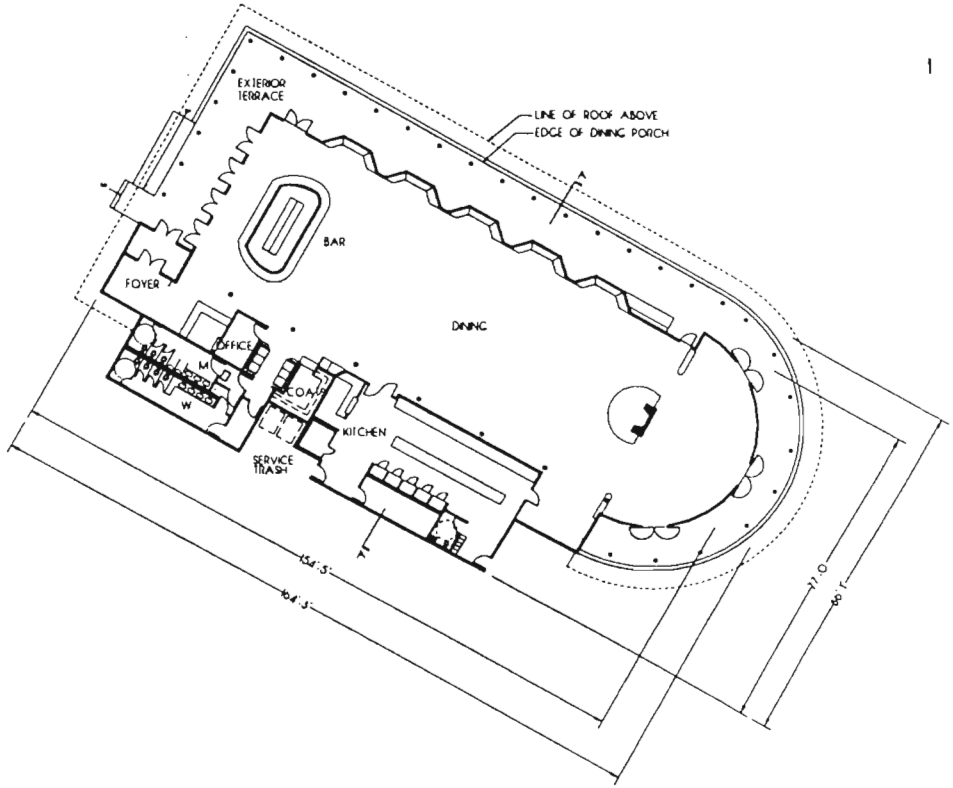

FLOOR PLAN

Enclosed Space 9,200 sq. ft.
Exterior Terrace 3,125 sq. ft.

SOURCE: BUTLER ROGERS BASKETT

0 20 40 FEET
SCALE

Ferry Point Park

Boathouse Grill

Figure A-4

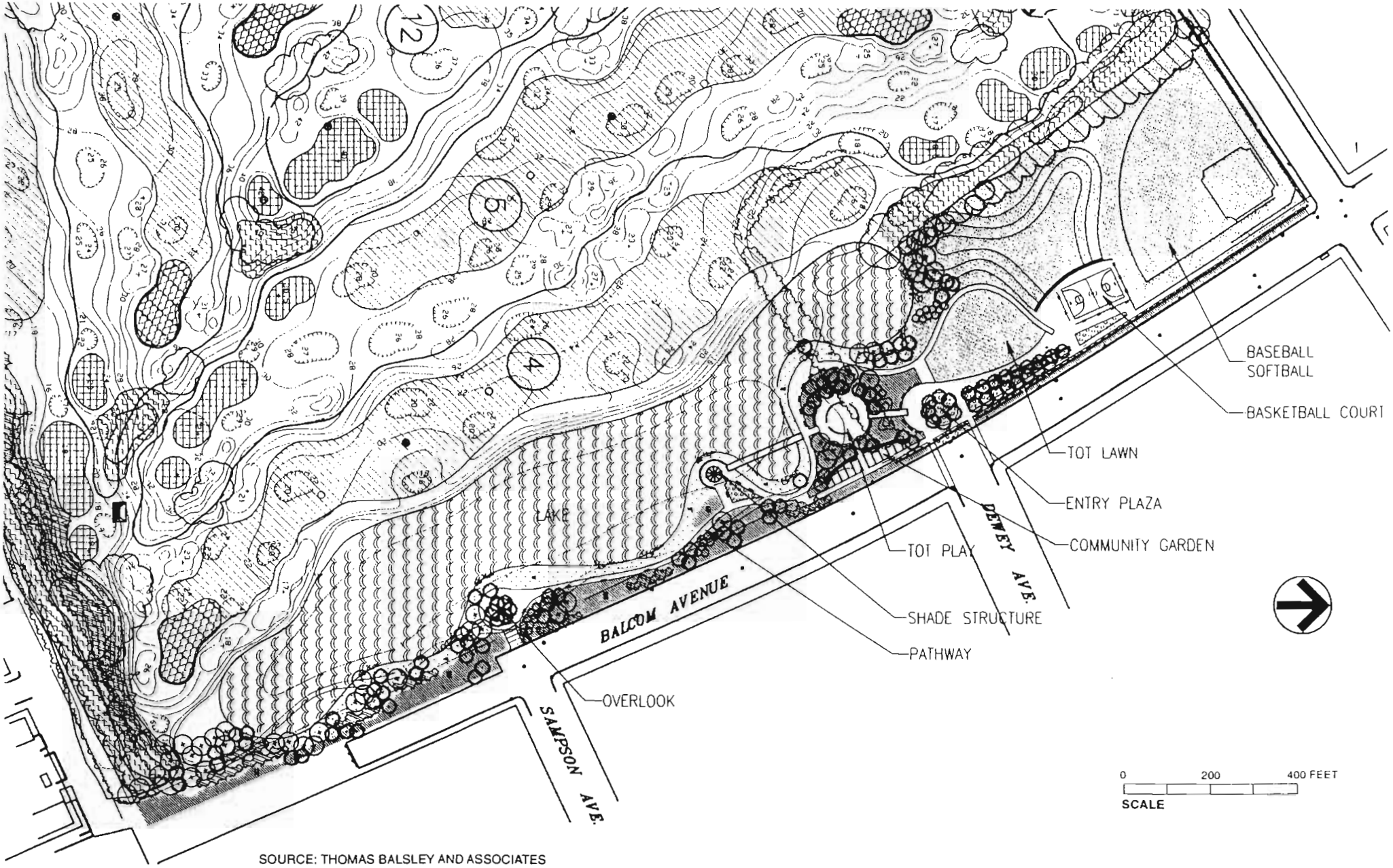

SOURCE: THOMAS BALSLEY AND ASSOCIATES

Ferry Point Park

Community Park

Figure A-5

The design of the community park shown in Figure A-5 integrates these diverse elements into a cohesive and engaging recreation area. The park is designed to complement the golf course, though the park and golf course would function as two separate facilities. No access between the community park and golf course would be provided.

The circular tot lot will be paved with a highly resilient, colorful, rubberized surface to minimize the danger of accidents from children falling. A circular guardian seating area would be provided surrounding the play area. The play equipment would be selected to reflect the natural landscape setting, enhancing its effects with constructed forms whose color, materials, and shapes have been selected to complement their surroundings.

The organization of the community park requires a separation of uses. This is addressed by the placement of the baseball field and basketball court toward the northern portion of the park and the lawn area and lakefront area more to the central and southern portion of the park. The lawn area would serve to separate the contemplative nature of the lakefront recreation from the active play at the ballfield and basketball court. There would be a liberal tree buffer to ensure safe play between the ballfield and the golf course. The space that separates the structured features of the lakefront area from the active play of the ballfield and basketball court is the lawn.

The existing topography in the area of the proposed community park is virtually flat. To create an interesting vista and usable lounging lawn, the land would be contoured with additional soil brought to the site.

The proposed park design provides users who are not using the baseball field or basketball court with a choice—water's edge or bucolic lawn. From the entry, a landscaped bridge pathway spans a stream of grasses to usher children into the tot lot. This pathway also directs pedestrians to the tree-lined lakefront walk and the dappled shade of the "patios" at the lake's edge. The lakefront has been designed to wrap around this area of the park creating opportunities for discovery and beauty at every turn. A walk around the tot lot reveals another bridge, this time crossing the lake at the cove where a botanical discovery zone starts. There is another choice—walk over the bridge or embark on a nature walk provided by a stone dust path that defines the eastern boundary of the lake. This natural environment—also planted with native and ornamental grasses—meanders along the lake's edge, revealing numerous botanical associations with descriptive plaques nestled in the displays. There would also be two gazebos, one at the outlet of the bridge and a second as the terminus of the discovery walk.

GOLF FACILITY

The golf facility is proposed to contain an 18-hole tournament quality golf course, a Golden Bear Golf Center with driving range and practice areas for chipping and putting, the clubhouse building with full service pro shop/snack bar/locker rooms, the maintenance building, and the facility managers residence.

The golf course would be a tournament-level 18-hole par 72 daily fee course designed by renowned golf-course architect, Jack Nicklaus. The course has been designed to accommodate a full range of playing skills within a diverse setting that provides stunning views of the East River, Bronx-Whitestone Bridge, Throgs Neck Bridge, Queens, and Manhattan. Water, vegetation, and views would be woven into the course design to maximize both visual quality and playability. Soil would be brought on site to contour the land (see Attachment G, "Hazardous Materials," for a detailed discussion). In addition, four lakes would be created on-site. Golf

features (i.e., hills, sand traps, rough, and water hazards) would be strategically located to reasonably test skills and provide a beautiful setting.

From the championship tees, the course would be approximately 7,000 yards and from the forward tees about 5,500 yards. Tees would be positioned to allow all levels of playing skills to be accommodated. The course has been strategically designed to provide the golfer with a variety of experiences that balance power and precision. Three of the holes nearest to the driving range (holes 1, 8, and 9) may be lit for night play.

The golf facility would include a Golden Bear Golf Center, which includes a driving or practice range, short-game area, and teaching and instructional facilities. These facilities would offer golfers a wide variety of practice experiences.

The driving range would be an all-weather facility with a total of approximately 80 stations or tees on two levels. The tees, instructional area, and related available facilities would be located in a 2-story structure, which would be lit for night play, and would be approximately 400 feet wide and 30 feet deep. The range would be approximately 900 feet long, with swales, bunkers, target greens to simulate on-course conditions, safety netting mounted on support poles (ranging from approximately 50 to 150 feet), that would be placed approximately 100 feet apart around the range area. Lights would be mounted on these poles for night use. The tee area of the range would be heated to accommodate use during cold weather periods. In addition, during the winter months, portions of the range may be covered with a climate controlled dome, approximately 400 feet wide, 400 feet deep, and 120 feet high, to allow year-round use of the driving range. In addition, the three holes of the golf course immediately adjacent to the driving range may be lit to permit night play. The lights would be mounted on the netting support poles of the driving range.

The short-game areas would allow golfers the full range of shot making needs—practice chipping, pitching, sand play, and putting—under conditions similar to those they might experience on a golf course.

Instruction would be available from accredited teaching professionals trained in the Jack Nicklaus/Jim Flick philosophy and method. A full range of instructional programs would be offered, including community-oriented programs for schools, civic groups, and senior citizens.

The clubhouse building is proposed to be located in the center of the western portion of the site and would serve as a focal point for the golf facility. All golfers using the golf facility would pass through this building. Access to the clubhouse building would be heading north via the main entrance roadway to the project site. Preliminary plans for the clubhouse building show a footprint of approximately 8,200 square feet and rises to a maximum height of approximately 34 feet (see Figures A-6 through A-8). It is a 1-story building with a lower or basement level. Site conditions (i.e, depth to the level of waste materials) may require that the basement level be eliminated, and the footprint of the building be expanded to allow the functions currently envisioned for the basement level at-grade. The building has been designed in keeping with the overall natural theme of the project site utilizing natural-looking materials, a pitched roof with chimney, and large dormer windows. The architecture can be classified as shingle style, a somewhat eclectic, informal style of architecture that was prevalent in northeastern seaside communities at the turn of the century. It provides a rustic, inviting feeling combining residential scale in a public facility.

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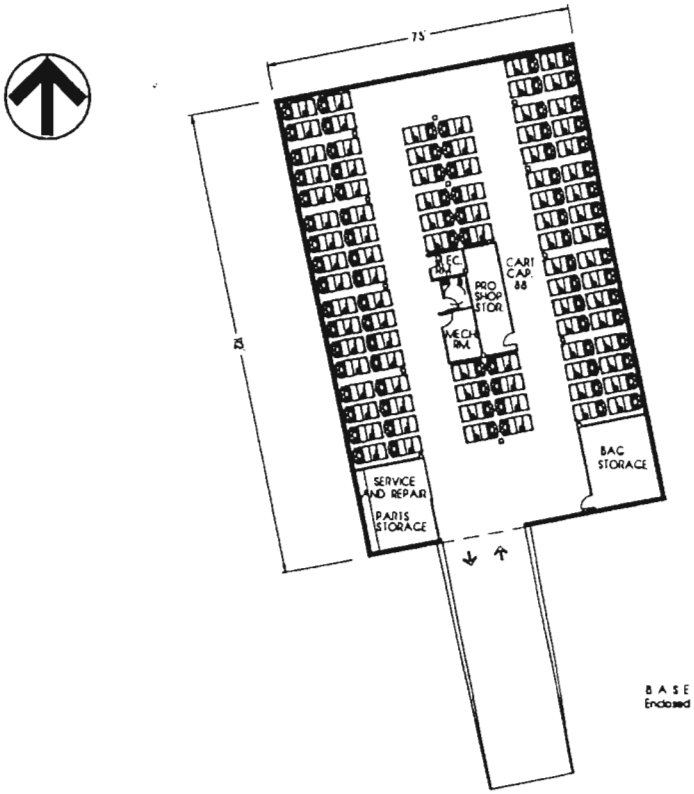

BASEMENT-CELLAR FLOOR PLAN
Enclosed Space 7,810 sq. ft.

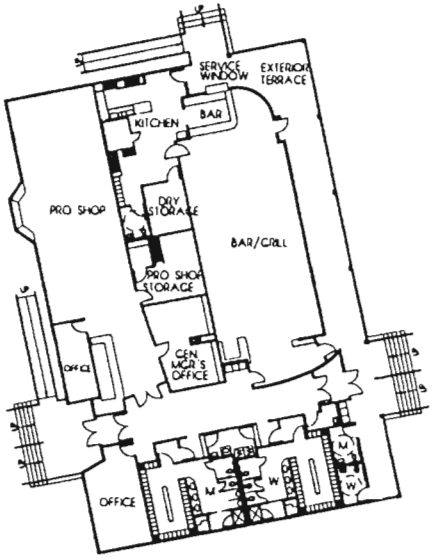

MAIN FLOOR PLAN
Enclosed Space 6,830 sq. ft.
Exterior Terrace 1,340 sq. ft.

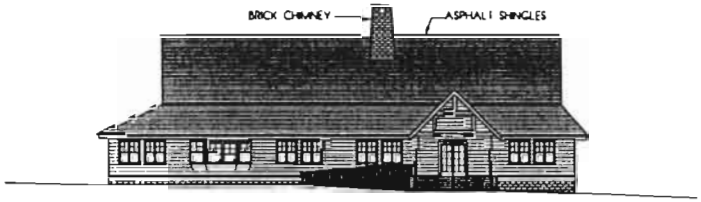

FRONT ELEVATION (WEST)

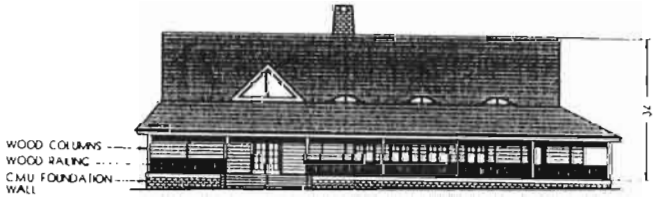

REAR ELEVATION (EAST)

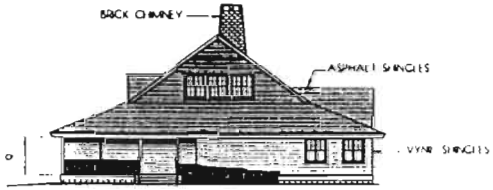

NORTH ELEVATION

SOURCE: BUTLER ROGERS BASKETT

0 20 40 FEET
SCALE

Ferry Point Park

Golf Clubhouse

Figure A-6

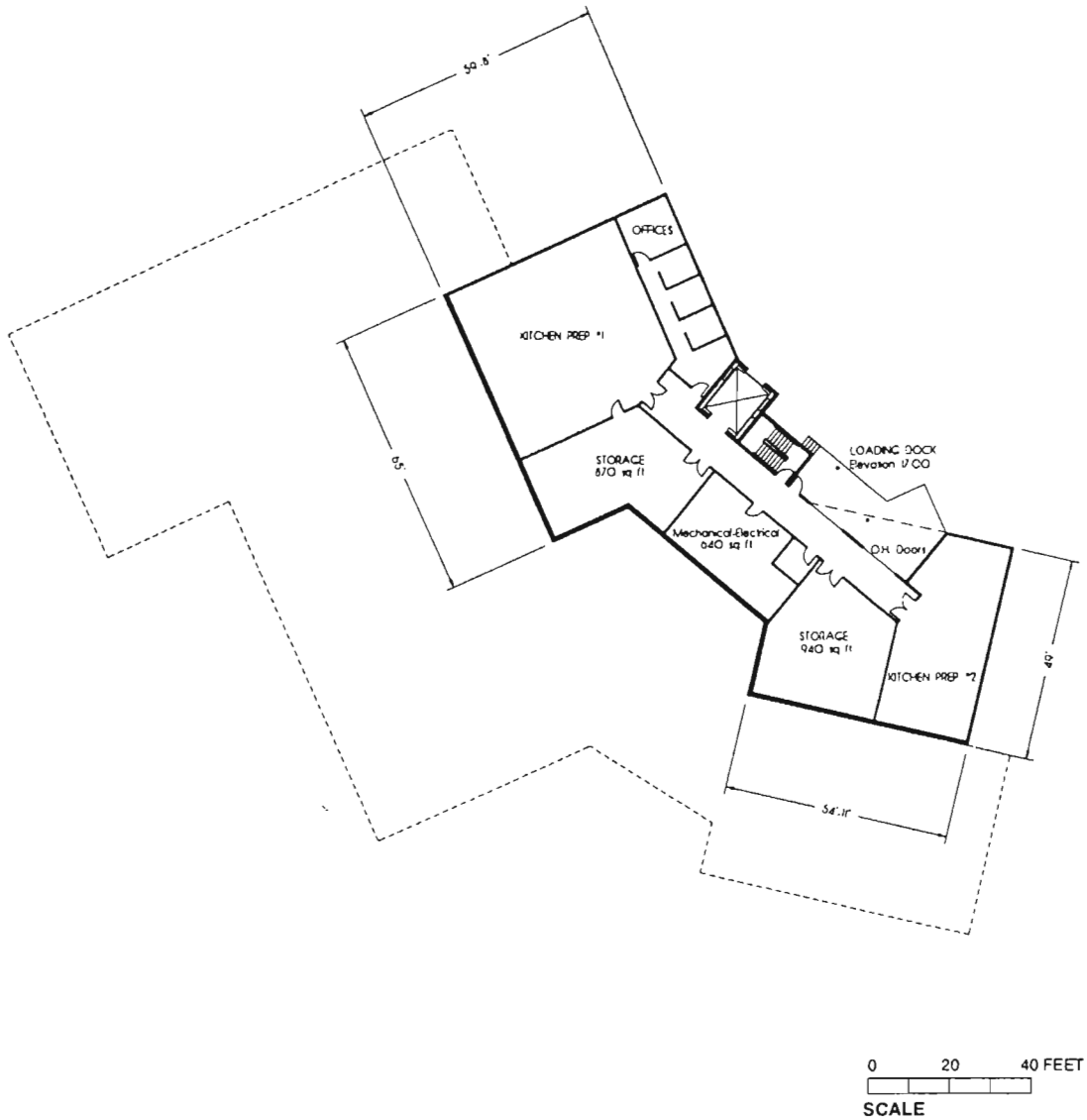

SOURCE: BUTLER ROGERS BASKETT

Fine Dining/Banquet Facility

Basement Level Floor Plan

Ferry Point Park

Figure A-7

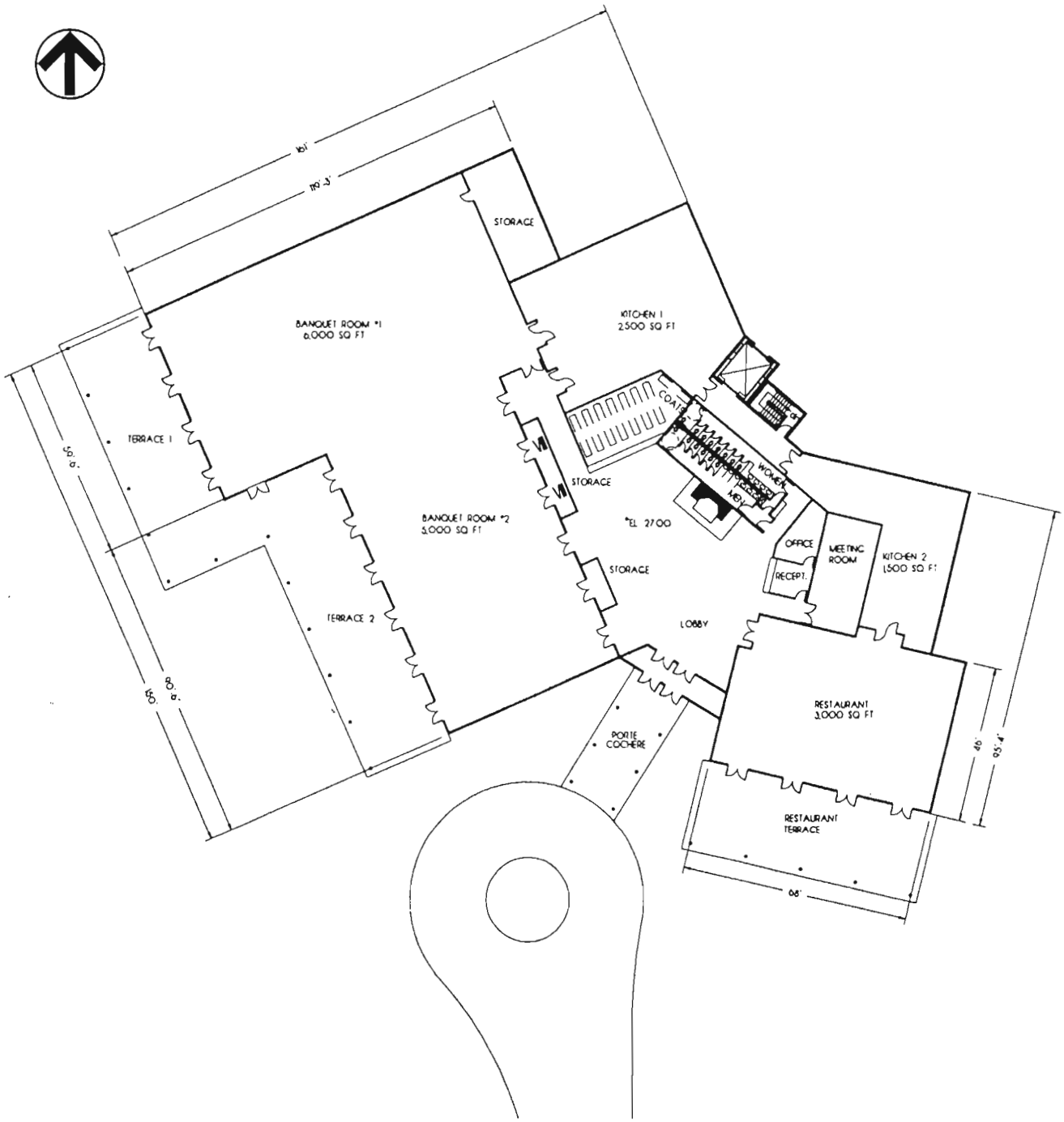

SOURCE: BUTLER ROGERS BASKETT

0 20 40 FEET
SCALE

Fine Dining/Banquet Facility

Main Level Floor Plan

Ferry Point Park

Figure A-8

The main floor of the clubhouse building is about 7,500 square feet. It has a porch on the east side, with some limited outdoor seating, and access to handicapped toilets. Inside is the check-in area for the golf course, driving range, and short-game area, a pro shop, a bar and grill, locker rooms with shower and bathroom facilities, and golf facility offices and the grill kitchen. The lower level of the clubhouse building has been designed for golf cart storage, service, and repair, golf bag and general storage, mechanical and electrical rooms, and handicapped toilets.

The maintenance building is a pre-engineered, 1-story, metal building of about 7,500 square feet in area, with a maximum height of approximately 15 feet. It would be located in the northwestern corner of the site, and would have its own access roadway from the northbound I-678 north- and southbound service roads. The building and adjacent maintenance area would contain space for equipment, chemical and pesticide storage, equipment washdown and maintenance, and maintenance personnel offices. The turf nursery would be located in this area. In addition, the pump station used for irrigation of the golf course would be located adjacent to this building. The building and surrounding maintenance area would be landscaped and shielded by trees from the rest of the facility and the surrounding area.

The facility managers residence is proposed to be a 2-story building located in the eastern portion of the site, adjacent to the fine dining/banquet facility parking area. The building would be approximately 4,500 square feet, with a maximum height of approximately 35 feet. Four or five dwelling units for living quarters for the facility managers residence and groundskeeping and/or security personnel would be provided in the building. The building, like most of the other buildings on the project site has been designed in the shingle style of architecture, utilizing natural-looking materials, and a pitched roof with chimney, to provide a rustic, inviting feeling. While it would not be readily visible to the adjacent residential community to the east of the project site, it would be of a scale that blends well with the residential buildings to the east.

FINE DINING/BANQUET FACILITY

The fine dining/banquet facility building is located in the southeastern portion of the site and serves as a location for fine or elegant dining or for private parties, special occasions, and events. The building has a footprint of approximately 25,000 square feet and rises to a maximum height of approximately 40 feet (see Figure A-9). It is basically a 1-story building, although it does contain some office space and some service space (for kitchens and storage) in a partial basement or lower level. Site conditions (i.e, depth to the level of waste materials) may require that the basement level be eliminated, and the footprint of the building be expanded to allow the functions currently envisioned for the basement level at-grade. Like the other major buildings proposed for the project site, this building has been designed in keeping with the overall natural theme of the project site, in the shingle style. It utilizes natural-looking materials, a pitched roof with chimneys, and large glass windows and doors to take advantage of the spectacular views of the golf course, East River, Bronx-Whitestone Bridge, and Queens. The building design provides a rustic, inviting feeling that blends well with its surroundings, and makes this relatively large building seem in scale with its surroundings.

Access to the fine dining/banquet building would be heading south via the main entrance roadway/crescent road to the project site. Restaurant patrons would either self-park or valet park. Attendees of events utilizing the banquet halls would, except for small events, generally utilize valet parking.

The ground floor of the building is divided into three main areas: a restaurant for elegant dining, which is approximately 3,000 square feet and seats approximately 150 people; a catering hall, which is approximately 4,500 square feet and seats approximately 350 people; and a second catering room, which is approximately 6,000 square feet and seats approximately 475 people. Each of the banquet rooms has a separate terrace overlooking and adjacent to the golf course lake, while the restaurant overlooks the waterfront park and portions of the golf course. The two catering rooms can be combined to accommodate large events requiring seating for up to approximately 825 people. An additional paved area, adjacent to the banquet hall terraces would allow for a removable tent for special events (e.g., weddings).

The fine dining/banquet facility is designed to include an 8- to 10-foot noise barrier with landscaping along Emerson Avenue. This barrier would be located behind the fine dining/banquet facility to minimize the effects of this facility on the adjacent community. This barrier would also reduce noise from any vehicle movements and truck deliveries or other service area events. ❖

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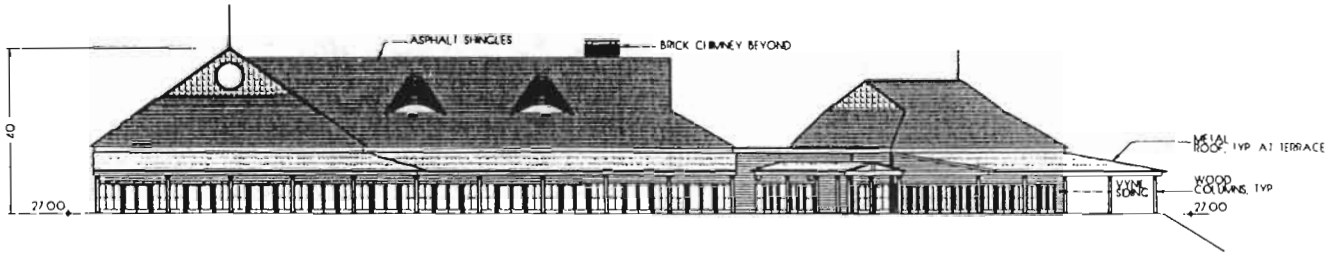

WEST ELEVATION

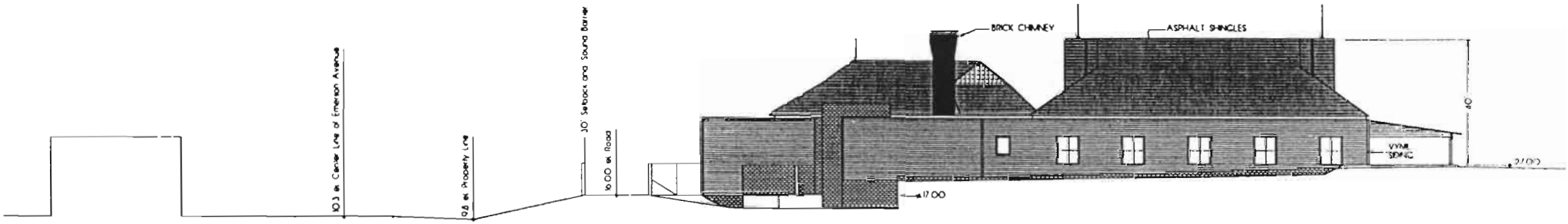

NORTH ELEVATION

0 20 40 FEET
SCALE

SOURCE: BUTLER ROGERS BASKETT

Fine Dining/Banquet Facility

Elevations

Ferry Point Park

Figure A-9

Attachment B: Land Use, Zoning, and Public Policy

A. INTRODUCTION

For a study area extending up to a ½-mile radius from the project site, this examines existing land use, zoning, and public policy; projects future conditions without the proposed project through the Build year, 2002; and assesses potential impacts of the proposed project. The ½-mile study area is bounded roughly by Westchester Creek on the west, Lafayette Avenue on the north, East Tremont Avenue on the east, and the East River on the south (see Figure 1, "Land Use," in the EAS).

B. SITE HISTORY

The project site is a former landfill owned by the City of New York and administered by the New York City Department of Parks & Recreation (DPR). Aerial photos of the project site taken in 1951 show that large portions of project site were previously located either under water in the East River or were land being created by landfill. (See Attachment G, "Hazardous Materials," for historic aerial photographs.) The site was in operation as a municipal solid waste landfill from before 1951 to the 1960's, with additional closure operations occurring as recently as the late 1980's. During its operation as a landfill, a ballfield and basketball court were present on a northeastern portion of the project site. The landfill was closed and covered in the mid-1960's, and has been in its current condition, with growth and development of its current vegetation, since the 1980's. DPR began operation of an organic recycling and composting facility on a northwestern portion of the site in 1994. Robert Moses, in his 1950 plans for the eventual development of the park, envisioned a golf course at this location.

C. EXISTING CONDITIONS

LAND USE

PROJECT SITE

The approximately 222-acre project site encompasses the eastern portion of Ferry Point Park under the Bronx-Whitestone Bridge, and is bounded by Schley Avenue and St. Raymond's Cemetery to the north; Balcom, Miles, and Emerson Avenues to the east; the East River to the south, and the I-678 north- and southbound service roads and the western portion of Ferry Point Park to the west. Currently, the majority of project site is unimproved and undeveloped parkland, and is generally inaccessible to the public (portions of the park are fenced off). However, DPR operates an organic recycling and composting facility on approximately 414,000 square feet at the northwestern corner of the site, and occupies approximately 274,000 square feet of open field at the northeastern corner of the site, including a community ballfield and basketball court. Informal uses include dirt bike paths and a model airplane area on the western portion of the site.

The roadways surrounding the site include Schley, Emerson, Miles, and Balcom Avenues—lightly traveled local roads that serve the residential uses bordering the eastern portion of project site. Schley, Emerson, and Miles Avenues do not provide through access to the project site. The Ferry Point Park access road borders the western portion of the site and is a two-way road operating with one lane in each direction. The developed portion of Ferry Point Park lies to the west of the Bronx-Whitestone Bridge, and is accessed via the lightly traveled Ferry Point Park access road, which connects the I-678 north- and southbound service roads under the Bronx-Whitestone Bridge.

STUDY AREA

Uses in the study area are primarily residential to the north and east of the project site, and commercial and industrial to the west of the project site. As noted above, the project site lies under and to the east of the Bronx-Whitestone Bridge in the eastern portion of Ferry Point Park. The portion of Ferry Point Park that lies to the west of the Bronx-Whitestone Bridge includes ballfields and picnic areas, and contains a waterfront walking area. The park serves variety of users, and draws people from throughout the Bronx. As mentioned earlier, the project site is currently an undeveloped portion of the existing park.

Major roadways in the study area include Lafayette Avenue, the I-678 north- and southbound service roads, East Tremont Avenue, and the Cross-Bronx Expressway.

The eastern portion of the project study area is predominantly residential. Residential uses including single- and two-family attached and detached homes, as well as public housing facilities such as the Throggs Neck Houses and the Randall-Balcom Houses, border the project site. Open spaces within these public housing complexes are landscaped and include outdoor community spaces with benches and a ballfield. Single- and two-family attached and detached houses, as well as walk-up apartment buildings, can be found to the north of Lafayette Avenue east of the I-678 northbound service road, and to the east of the project site, in the area bounded by Balcom, Miles, Emerson, and Hollywood Avenues and the East River. Construction of new residential units bordering the site along Miles Avenue near Hosmer Avenue is under way. There are six schools located within this portion of the study area: St. Joseph School for the Deaf near the intersection of Lafayette Avenue and the I-678 northbound service road, P.S. 10 and P.S. 401 on Lafayette Avenue to the west of East Tremont Avenue, P.S. 72 on Dewey Avenue near East Tremont Avenue, St. Frances De Chantal School on Harding Avenue near Hollywood Avenue, and Preston High School on Schurz Avenue near Huntington Avenue. Along East Tremont Avenue between Lafayette and Miles Avenues, there are commercial and retail uses, light industrial uses, and auto-related uses, including local retail stores, restaurants, and gas stations.

The southwestern portion of the study area bounded by Lafayette and Schley Avenues between the I-678 southbound service road and Westchester Creek contains predominantly warehousing/storage yard and heavy industrial uses. There are also residential and commercial uses in this area including single- and two-family detached houses, a hotel, and office buildings. This portion of the study area also contains some vacant lots. Warehousing and heavy industrial uses in this area are generally located to the west side of Brush Avenue. Land uses across Westchester Creek are similar to those on the east side of the creek, primarily including commercial, industrial, and warehousing uses, along with a number of overgrown vacant parcels.

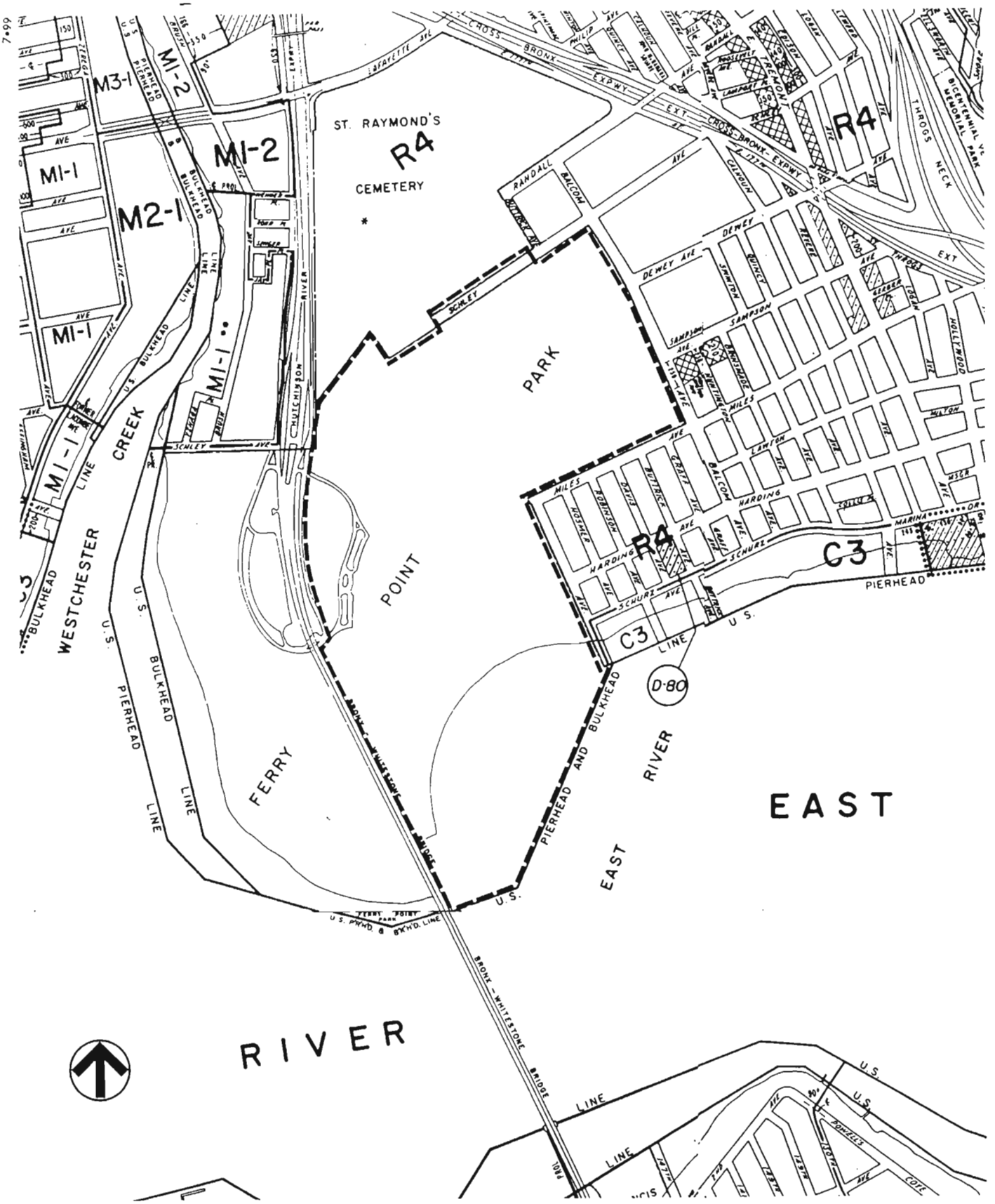

Ferry Point Park

Zoning

Figure B-1

The northern portion of the study area bounded by Lafayette and Zerega Avenues between Brush Avenue and the I-678 northbound service road includes primarily industrial uses with some vacant lots. Monsignor Scanlon High School and St. Helena Commercial High School are located at the northwest corner of the intersection of Lafayette Avenue and the I-678 southbound service road.

ZONING

The project site is mapped as City parkland and is therefore not within a zoning district. As shown in Figure B-1, within a ½-mile radius of the project site, zoning classifications include residential R4, commercial C1-4 and C3, and manufacturing M1-1, M1-2, M2-1, and M3-1. Generally, allowable uses in the residential R4 district include rowhouses and small multiple dwellings, in addition to community facility and retail uses. In the commercial C3 district, permitted uses include waterfront recreation and uses related to boating and fishing, in addition to allowable uses, such as residential and community facility uses. Manufacturing M1-1, M1-2, M2-1, and M3-1 districts include manufacturing uses as well as commercial and residential uses. Table B-1 summarizes zoning districts and floor-area ratios (FAR) in the study area. A comparison of Figures B-1 "Zoning," and Figure 1 "Land Use," in the EAS shows that the zoning of the study area generally is consistent with its land use patterns.

Table B-1
Zoning in the Study Area

Zone	Use	Floor Area Ratio (FAR)
Residential Zoning		
R4	Low-density residential	0.75 R plus 0.15 attic allowance, 0.75 to 2.0 CF
Commercial Zoning		
C1-4	Commercial (local shopping and services)	1.0 C, 0.75 R plus 0.15 attic allowance
C3	Waterfront Recreation District	0.5 C, 0.5 R plus 0.1 attic allowance, 0.5 to 1.0 CF
Manufacturing Zoning		
M1-1	Light manufacturing, high performance standards	1.0 M, 1.0 C
M1-2	Light manufacturing, high performance standards	2.0 M, 2.0 C
M2-1	Medium manufacturing, medium performance standards	2.0 M, 2.0 C
M3-1	Heavy manufacturing, low performance standards	2.0 M, 2.0 C

Note: CF = Community Facility, R = Residential, C = Commercial.
Source: New York City Zoning Resolution.

There are currently two unbuilt and undeveloped streets located on the project site—Emerson Avenue between Miles and Schley Avenues, and Schley Avenue between Buttrick and Emerson Avenues.

PUBLIC POLICY

The project site is located in Community Board 10, which encompasses the area bounded by the Bronx City Line to the north, the Hutchinson River Parkway and Westchester Creek to the west, Eastchester Bay to the east, and the East River to the south, and includes the communities of Westchester Square-Zerega, Throgs Neck, Pelham Bay, Country Club, City Island, and Co-Op City. The Community Board's *Fiscal Year 1999 District Needs Statement* addresses a variety of concerns, including the need for evening youth recreation programs and the effects of budget cuts on the Park Enforcement Program, which enforces existing ordinances and regulations of

the Parks Department. The statement also recognizes the importance of Ferry Point Park and local playgrounds and parks to the district.

D. THE FUTURE WITHOUT THE PROJECT

LAND USE

In the future without the proposed project, land uses are expected to remain similar to those in existing conditions. The residential condominium units now under construction bounded by Miles and Harding Avenues and Emerson and Robinson Avenues (adjacent to the southeastern portion of the project site) will be completed. In addition, other residential sites to the east of the project site are likely to be developed, and mapped, unbuilt streets in the area, such as Miles Avenue between Emerson and Robinson Avenues, would likely be built.

ZONING

According to a representative of the Bronx Department of City Planning (DCP) borough office, zoning in the study area is not anticipated to change by the year 2002.

PUBLIC POLICY

There would be no changes to public policies in the future without the project.

E. PROBABLE IMPACTS OF THE PROPOSED PROJECT

LAND USE

The proposed project would change the site by creating a regional public recreation facility on the currently undeveloped and generally publicly inaccessible portion of Ferry Point Park to the east of the Bronx-Whitestone Bridge. Ultimately, the proposed project, which would result in three distinct sections, represents the expansion of the existing park use, and would develop 7.0 acres of community park (near Balcom and Schley Avenues) and 19.5 acres of waterfront park (adjacent to the East River) in addition to a golf facility and restaurant uses (on the majority of the site). As part of the proposed project, two unbuilt and undeveloped streets—Emerson Avenue between Miles and Schley Avenues, and Schley Avenue between Buttrick and Emerson Avenues—would be demapped, adding approximately 6 acres of new parkland. As part of the proposed project, best efforts would be made to relocate the existing informal model airplane facility.

The proposed project's location adjacent to the Bronx-Whitestone Bridge, the Hutchinson River Parkway (I-678) and its service roads, and the Ferry Point Park access road allows for site access without adding vehicular traffic to the adjacent residential community located to the east of the project site. With the exception of the community park, the proposed recreation facility would be primarily a regional park.

The New York City Department of City Planning's (NYC DCP) *Greenway Plan for New York City (1993)* proposes, in general, a greenway along the I-678 north- and southbound service roads, as well as along the Bronx Whitestone Bridge (via bus service). In addition, NYC DCP's and DPR's *1999 Draft Greenway Master Plan: Soundview Park to Ferry Point Park* proposes possible locations for a greenway connection from Brush Avenue and Lafayette Avenue to the I-678 northbound service road. With the proposed park road improvements, a two-way bicycle

path could be feasible on the I-678 southbound service road; this bicycle path could connect to the proposed project's entrance road.

The proposed project would add a waterfront park that would provide a pedestrian and bicycle connection between the existing waterfront portion of the western part of Ferry Point Park and a community park, public restaurants and banquet facilities with water views, as well as a high-quality public golf facility. The waterfront park is designed to reclaim the waterfront for public use. The community park would transform the existing underdeveloped community park at Schurz and Balcom Avenues into a viable center of community recreation and leisure. This park would be directly accessible to residential areas to the east of the project site. In addition, the existing ballfield and basketball court would be rebuilt at the northern end of the community park. The golf facility would be the culmination of the concept of providing a public golf facility at this site developed by Robert Moses. Currently, New York City, like other downstate areas, does not have a sufficient number of golf courses to meet public demand. This facility would help satisfy the need for a high-quality, public golf facility within the City. Therefore, the proposed project would add needed recreation facilities and would have a positive impact relative to land use.

ZONING

Development of the proposed recreation facility would not require any changes to zoning at the project site or in the study area.

PUBLIC POLICY

The proposed project would introduce additional developed parkland to the community and would be consistent with the Park Enforcement Program. The project would provide a public recreation facility on parkland that is generally undeveloped, unused, and inaccessible to the public. This development would be consistent the Community Board's quality of life goals for the area. Therefore, the proposed project would be consistent with public policy.

CONCLUSION

The proposed project would create an approximately 222-acre regional public recreation facility with a waterfront park, fine dining/banquet facility, golf facility, and a community park on currently underdeveloped parkland, and would have a positive impact relative to land use. The proposed project would not impact zoning at the project site or in the study area, and would be consistent with public policy. ❖

Attachment C: Visual Resources

A. INTRODUCTION

This attachment considers the potential effects of development of Ferry Point Park on its visual environment. Because the project, from a visual resources standpoint, consists primarily of landscaping and five moderately sized buildings, the distance from which it would be seen is limited to a radius of only a few blocks in most cases. The structures nearest the project site are small-scale low residential buildings and low-rise multi-family housing generally without long views. The closest views of the proposed structures on the project site are from the blocks adjacent to the proposed banquet facility and facility managers residence along Emerson Avenue. The Bronx-Whitestone Bridge forms a strong physical and visual boundary along the western edge of the site; this defines the study area as bounded to the west by the Bronx-Whitestone Bridge and its approaches, to the north by St. Raymond's Cemetery, to the east by a line running approximately from the intersection of Swinton and Dewey Avenues to the intersection of Balcom and Schurz Avenues, and to the south by the East River (see Figure C-1).

B. EXISTING CONDITIONS

PROJECT SITE

The Bronx-Whitestone Bridge and its Hutchinson River Parkway approaches divide Ferry Point Park in half and define the western boundary of the project site (see Figure C-2, View 1). The project site, a former landfill, is located on the East River southeast of St. Raymond's Cemetery and Schley Avenue (see Figure C-2, View 2).

The site is almost entirely undeveloped, with the exception of a small organic recycling facility near the bridge on the western portion of the site, an informal model airplane field in the center of the site, and a community park located along Balcom Avenue at Schley Avenue on the northeast side of the site. The organic recycling facility consists of a gray aluminum pole barn of recent construction (see Figure C-3, View 3). There are two simple aluminum shelters in a fenced enclosure associated with the model airplane field. Access to these two sites is via the I-678 north- and southbound service roads. Elsewhere in the vicinity there are old tires and other debris. The community park features a baseball diamond with backstop, a basketball court, and a large lawn with mature trees along Schley Avenue (see Figure C-3, View 4).

Several informal dirt bike trails wind through the project site (see Figure C-4, View 5). Access to these trails is from the eastern edge of the site through the community park. The section of the site roughly north of a line extending northwest on line with Emerson Avenue is grassland and above the grade of the surrounding streets. The rest of the project site is at a slightly lower grade and has more vegetation, with a number of trees that have grown up on the former landfill. The southeastern edge of the site on the East River takes the form of a crescent. This rocky waterfront area is strewn with debris and has a remnant of an old rubble wall at its eastern end (see

Figure C-4, View 6). The northern section of the project site lies adjacent to St. Raymond's Cemetery and is similar to the rest of the undeveloped site (see Figure C-5, View 7).

The site boundary along Miles Avenue is overgrown with some vegetation reaching into the street. Trees and large bushes edge the site. On Emerson Avenue plant growth is even more dominant, with the knee-high grasses of the northern section of the site giving way to 6-foot-tall reeds and scraggly bushes.

STUDY AREA

On the west and north sides of the site, the Bronx-Whitestone Bridge and St. Raymond's Cemetery are physical barriers separating the site from more distant views in these two directions. Balcom, Dewey, and Harding Avenues are the main conduits through the study area east and south of the project site. Balcom shares a border with the project site from Schley Avenue south to Miles Avenue. Dewey and Harding Avenues run west-east, with their western ends terminating at the project site (see Figure C-5, View 8). The neighborhood to the north and east of the project site is divided into two different areas by Sampson Avenue.

NORTH OF SAMPSON AVENUE

North of the project site and in the block east of Buttrick Avenue, there are three L-shaped six-story apartment buildings with red and brown brick facades. Known as the Randall-Balcom Houses, they are arranged around a circular central courtyard and associated walking paths. A one-story aluminum Quonset hut of recent vintage has been constructed along Buttrick Avenue at the Randall-Balcom Houses. Between Randall and Sampson Avenues are the Throggs Neck Houses, a complex of both three-story and eight- to nine-story brick apartment buildings (see Figure C-6, View 9). These buildings built in the 1940's through the 1960's occupy three superblocks. Four eight-story apartment buildings front Balcom Avenue. On the facades, dark red and beige bricks are in a rectilinear pattern that relieves the flat facades. The buildings are elevated on columns leaving space underneath for outdoor community space. The open space surrounding the buildings is landscaped with trees and bushes and benches are provided. There is a small parking lot at the northern corner of the intersection of Balcom and Schley Avenues diagonally across the street from the community park on the project site. More parking lots and a ballfield are on the far side of the eight-story buildings. The rest of the Throggs Neck Houses are smaller three-story apartment buildings that feature stylized brushed aluminum entrances and some brick quoining at the corners. There are courtyards and pathways that provide pedestrian access to the interior of the block. These three-story buildings front the project site along Balcom Avenue between Dewey and Sampson Avenues (see Figure C-6, View 10). There is a basketball court in the interior of this block.

SOUTH OF SAMPSON AVENUE

Southwest of Sampson Avenue, the street plan is a typical urban grid pattern. There are a variety of housing styles and types, including attached rowhouse buildings, large peaked-roof houses, and smaller hipped-roof bungalows. None of these structures are taller than three stories and most of the single-family homes are one to two stories. The rowhouse buildings have flat or mansard roofs and are built in strips of 5 to 10 duplex or triplex units. The buildings are typically set back from the curb amidst driveways and walkways, while the remainder of the houses are separated by lawns and other open spaces. Some of the houses in this section appear to have been built around 1920, while others are of recent construction. The older buildings are almost

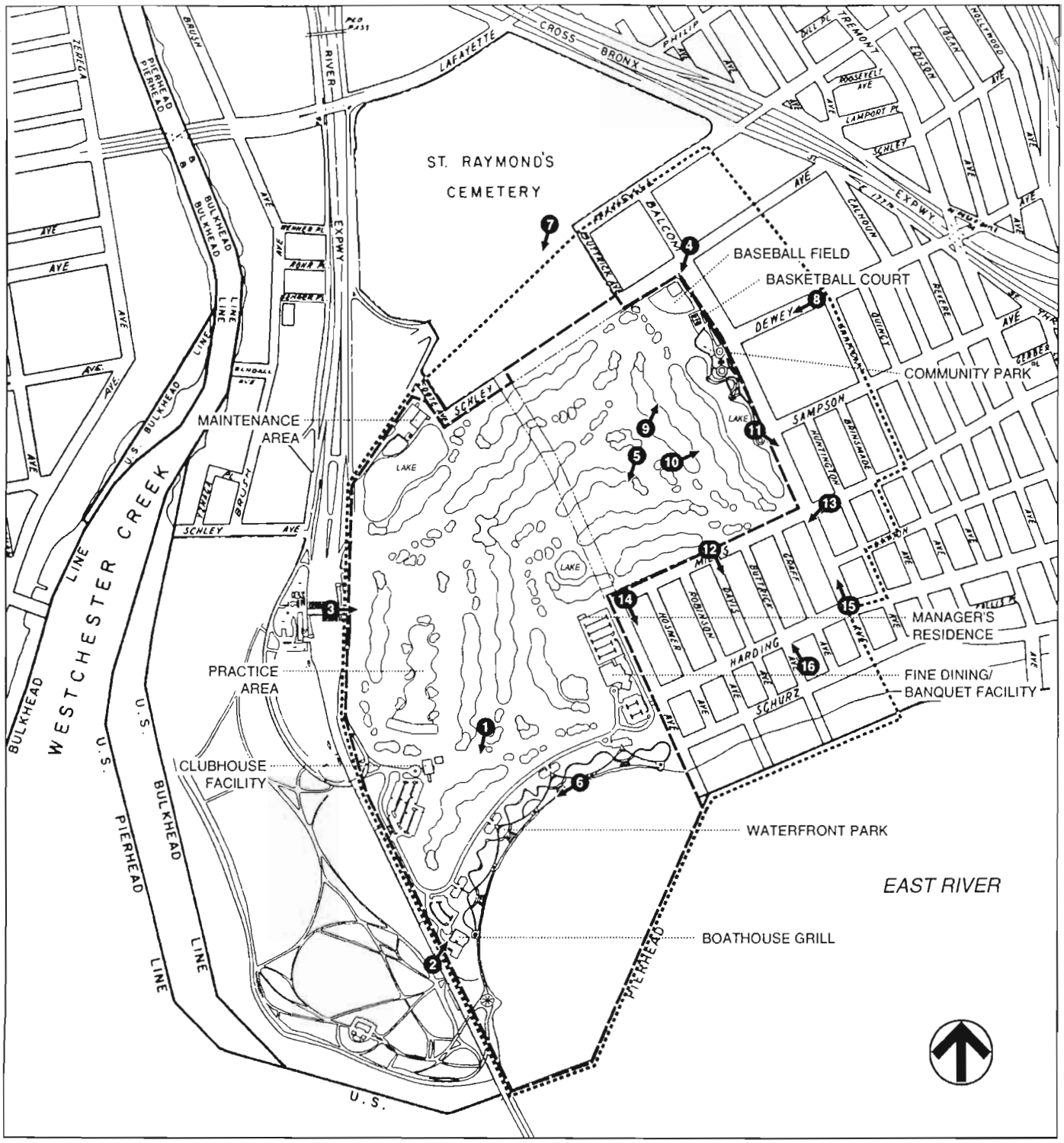

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Project Site Boundary

Study Area Boundary

View Direction of Photograph

Ferry Point Park

Visual Resources Study Area

Figure C-1

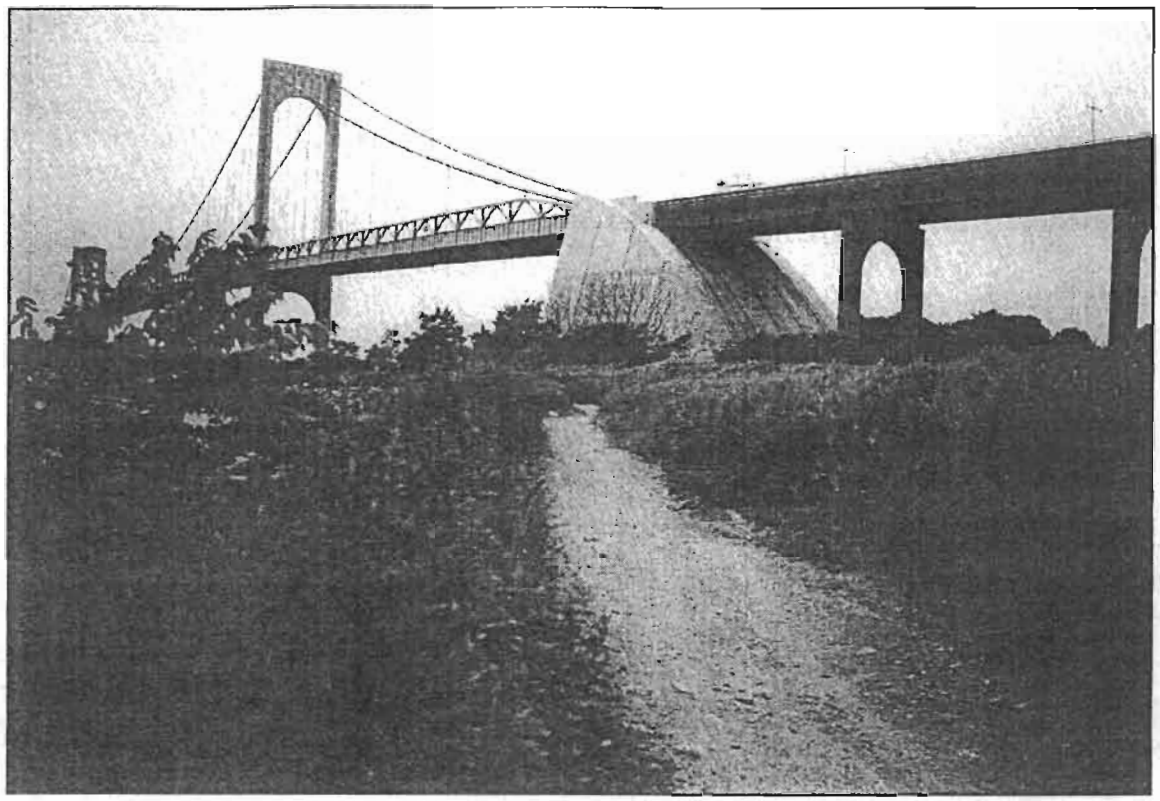

View south, with Bronx-Whitestone Bridge in background **1**

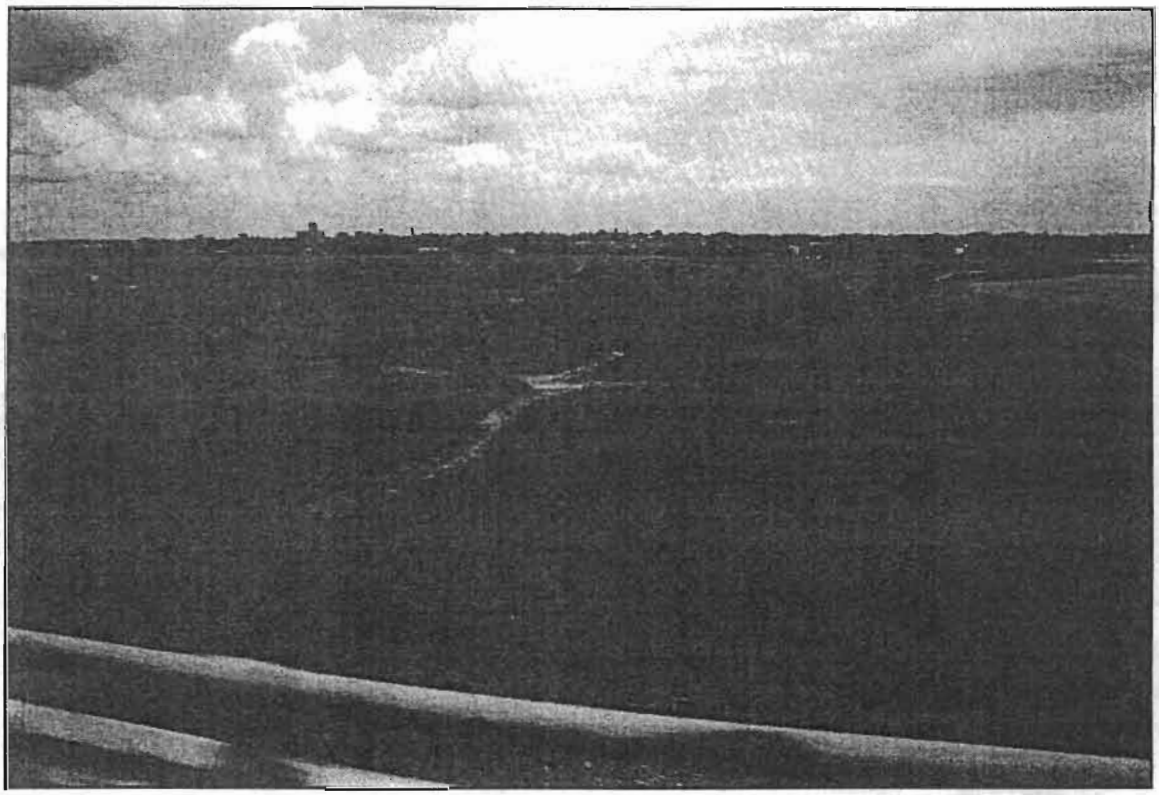

View north from the Bronx-Whitestone Bridge **2**

Views of the Project Site

Figure C-2

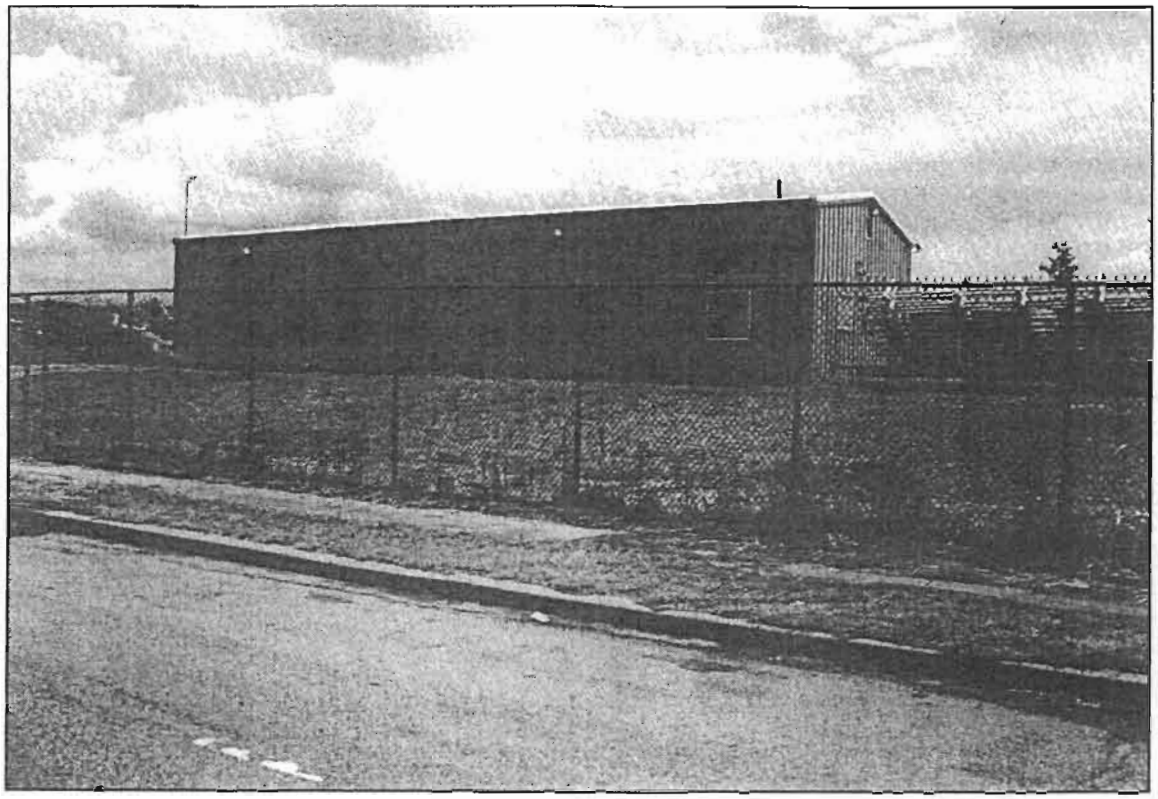

View to the east of mulching facility from Hutchinson River Parkway Service Drive **3**

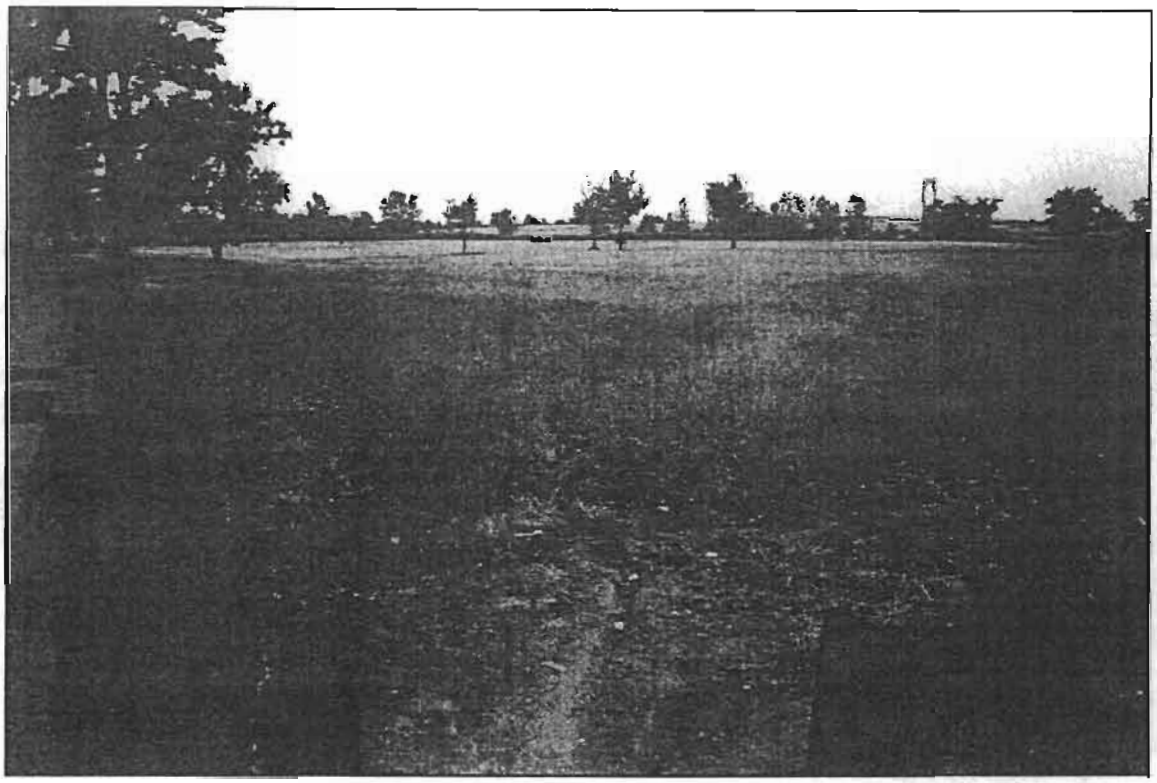

View south from the intersection of Schley and Balcom Avenues, site of community park **4**

Views of the Project Site

Figure C-3

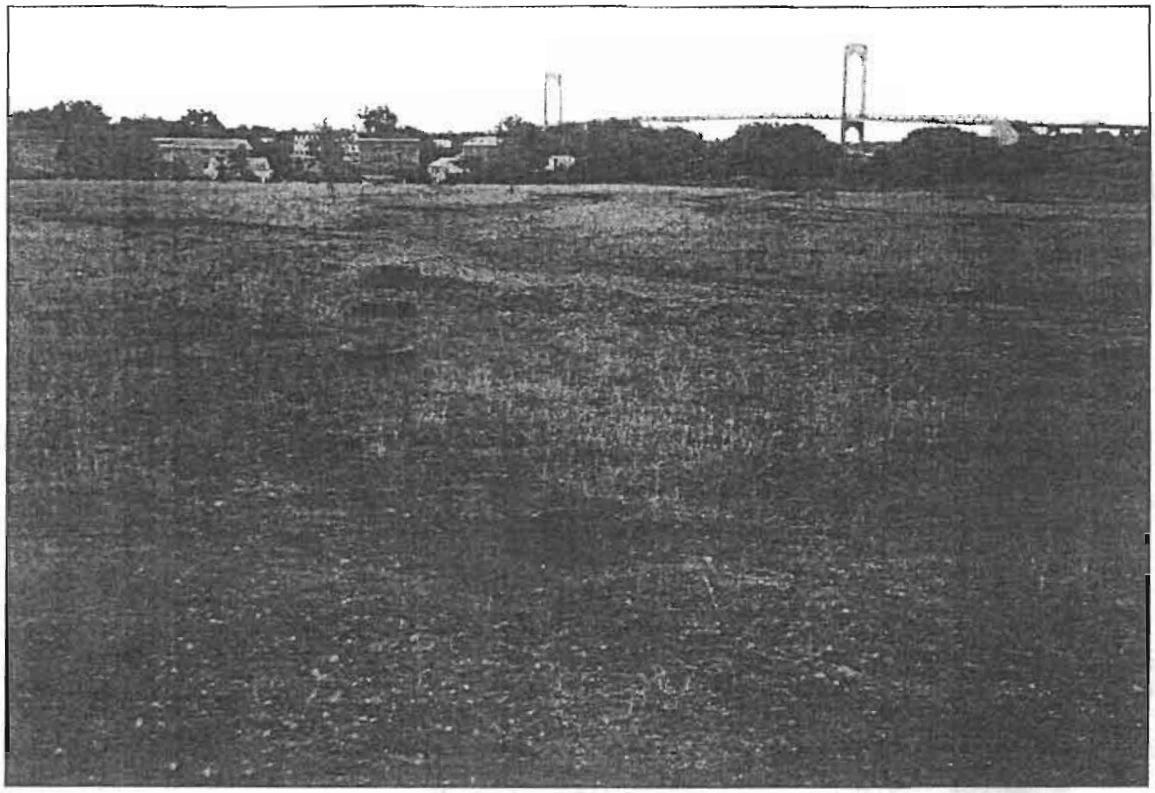

View south from center of northern section of project site, showing Miles Avenue and the Bronx-Whitestone Bridge **5**

View to the south of East River shoreline **6**

Views of the Project Site

Figure C-4

View to the south of St. Raymond's Cemetery with project site in background **7**

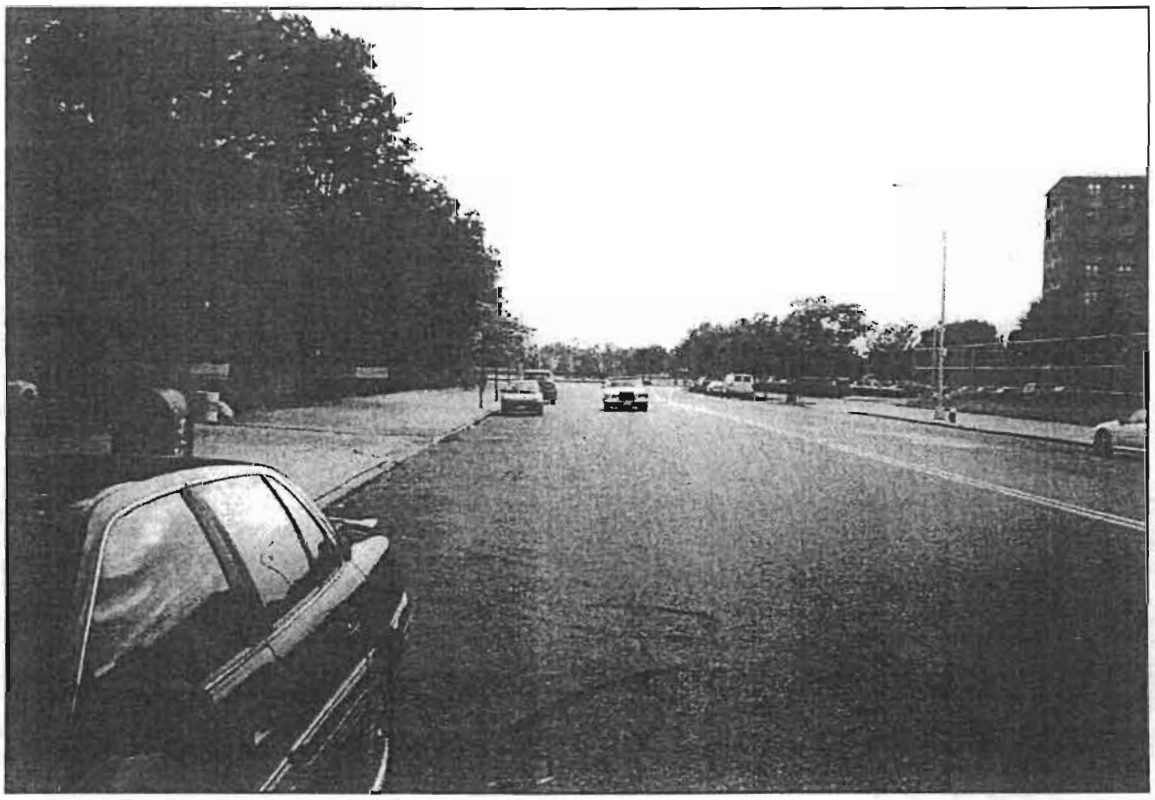

View to the west of Dewey Avenue at Throggs Neck Houses, with project site at center **8**

Views of the Project Site

Figure C-5

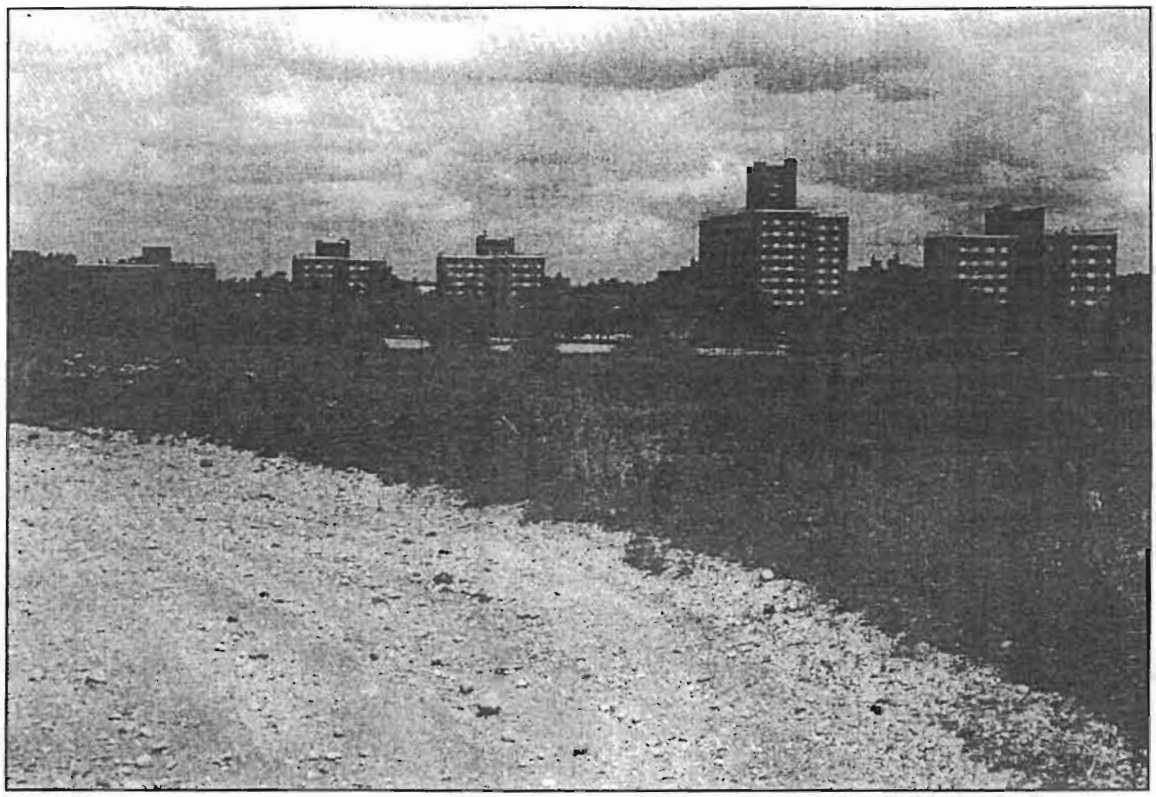

View to the north of Throggs Neck Houses from project site **9**

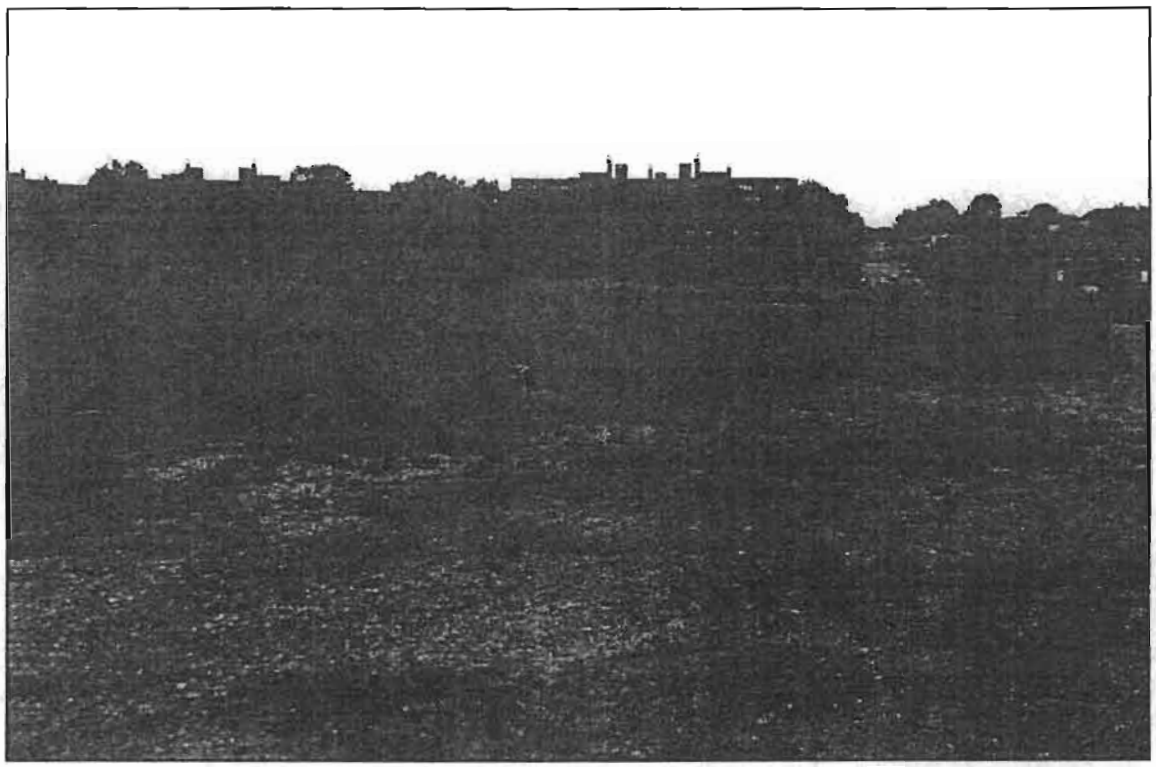

View to the east from project site with houses along Balcom Avenue and Sampson Avenue extending eastward **10**

Views of the Study Area

Figure C-6

exclusively wood-frame construction, while the more recent multi-family rowhouse-type dwellings generally have red or pink brick facades.

Across Sampson Avenue and bordering the project site along Balcom Avenue is a strip of nine attached, beige brick houses with porches at the entrance level facing the project site (see Figure C-7, View 11). Identical rowhouse strips are found along Huntington and Brinsmade Avenues to the northeast. At the southeast end of these rowhouses is a debris-ridden vacant lot that abuts the project site and extends northeasterly to the middle line of the next block, obstructing passage through Balcom and Huntington Avenues to points southeast.

At the northern corner of the intersection of Balcom and Miles Avenues and adjacent to the project site is a mansard-roofed, three-story, 10-unit brick apartment building that faces Miles Avenue and extends along the block all the way to Huntington Avenue. Several more of these three-story brick rowhouse buildings, with varying numbers of units, are found on Balcom Avenue southeast of Miles Avenue, on Miles Avenue between Buttrick and Davis Avenues, and near Miles Avenue on Graff, Robinson, and Hosmer Avenues. Also predominant on the streets terminating at Miles Avenue are some older 1½- to 2½-story frame houses and bungalows (see Figure C-7, View 12).

Miles Avenue abuts the project site between Balcom and Emerson Avenues. The avenue descends into a valley and then back to a higher grade in the block between Balcom and Graff Avenues (see Figure C-8, View 13). South of Graff Avenue, it is unpaved and irregular due to the encroachment of vegetation from the project site. This is the only unpaved street section in the study area. The ends of the blocks fronting Miles Avenues, with the exception of the rowhouse buildings already mentioned, are weed-choked, trash-strewn vacant lots marked with scrub brush and trees.

Miles Avenue at its intersection with Hosmer narrows to about 15 feet of passable roadway due to the overgrowth from both the project site and the vacant lots to the southeast. Bushes and weeds encroach on the dirt roadway and an abandoned street lamp pole tilts northward at a sharp angle. The western limit of Miles Avenue, at its intersection with Emerson Avenue, is an impassable mound of fill overgrown with weeds and marked with litter and debris. There is a small footpath that allows pedestrians access to Emerson Avenue. The houses at the northwestern limit of Emerson Avenue are largely obscured by this overgrowth when viewed from Miles Avenue.

Emerson Avenue is fully paved and better maintained than Miles Avenue. The dead end is marked with a barrier and a sign, and a combination of fences and barriers keep the park's wild growth from encroaching on the street's right-of-way. In contrast with Miles Avenue, nearly every building along Emerson actually fronts on the street (see Figure C-8, View 14).

Buildings fronting Emerson Avenue southeasterly from its intersection with Miles Avenue exhibit a diversity consistent with the surrounding study area. These include 1- to 1½-story brick and frame houses, a three-story three-unit brick rowhouse building with at-grade garages and entrances, a wood shake sided two-story frame house, and a three-story multi-family dwelling with second level entrances reached by a stoop, among others.

At the intersection of Emerson and Hosmer Avenues are two groups of rowhouses with their sides toward the project site. The buildings are brick-faced frame structures and face each other across Hosmer Avenue. Facing the project site along Emerson Avenue between Hosmer and Schurz Avenues are a brick, two-story, three-unit building with below-grade garages, and two

frame bungalows. The intersection with Schurz Avenue is marked by a large lot occupied by a single-frame bungalow on Schurz. The termini of Harding and Schurz Avenues with the project site are marked by highway barriers and signs, mostly overgrown from neglect. There is a small footpath from the intersection of Schurz and Hosmer Avenues southward toward the waterfront of the project site.

The surrounding streets that do not directly abut the proposed project site closely resemble the development already described (see Figure C-9, View 15). Exceptions to this predominant mixture of frame houses and brick multi-unit rowhouse groups include the Sea View Apartments, a complex of four two-story buildings on the block bounded by Davis, Harding, Robinson, and Schurz Avenues; and recently constructed suburban-style condominiums on the block bounded by Buttrick, Harding, Davis, and Schurz Avenues. The condominiums are two to three stories tall, and have brick facades and glass block circular exterior stairs. Balconies and patios face out toward the street with parking and entrances arranged around the interior parking lot.

Harding Avenue is wide, devoid of large trees, and correspondingly sunny in comparison with Miles and Schurz Avenues (see Figure C-9, View 16). The houses along Schurz Avenue on the East River side are mostly two-story frame houses on large lots. The view of the river is largely obscured by verdant plant growth in the rear of the houses and along the shoreline. Towering, mature deciduous trees especially mark this section of the study area.

C. THE FUTURE WITHOUT THE PROJECT

PROJECT SITE

If the proposed project is not implemented, it is assumed that the existing organic recycling and composting facility, the informal dirt bike trails and model airplane facility, ballfield and basketball court, park infrastructure, and vegetation growing on the former landfill site will remain undisturbed.

STUDY AREA

The condominium rowhouse buildings under construction on Hosmer Avenue are expected to be completed and landscaped. It is possible that some of the other vacant lots and older single-family dwellings will be replaced with similar rowhouse development. Further, the unbuilt streets will likely be built.

D. PROBABLE IMPACTS OF THE PROPOSED PROJECT

PROJECT SITE

The proposed Ferry Point Park development would improve the visual character of the project site in a number of ways and from a number of viewpoints. There would be three distinct sections of the park: a golf facility occupying the majority of the site, a waterfront park in the section of the site adjacent to the East River, and a community park near Balcom and Schley Avenues. Each of these sections of the former landfill site would be redeveloped and landscaped in accordance with the highest design standards for such facilities and in consideration of the sensitivity of the neighboring viewers.

View to the east of Balcom Avenue at Sampson Avenue with project site at right **11**

View to the southeast of Davis Avenue at Miles Avenue **12**

Views of the Study Area

Figure C-7

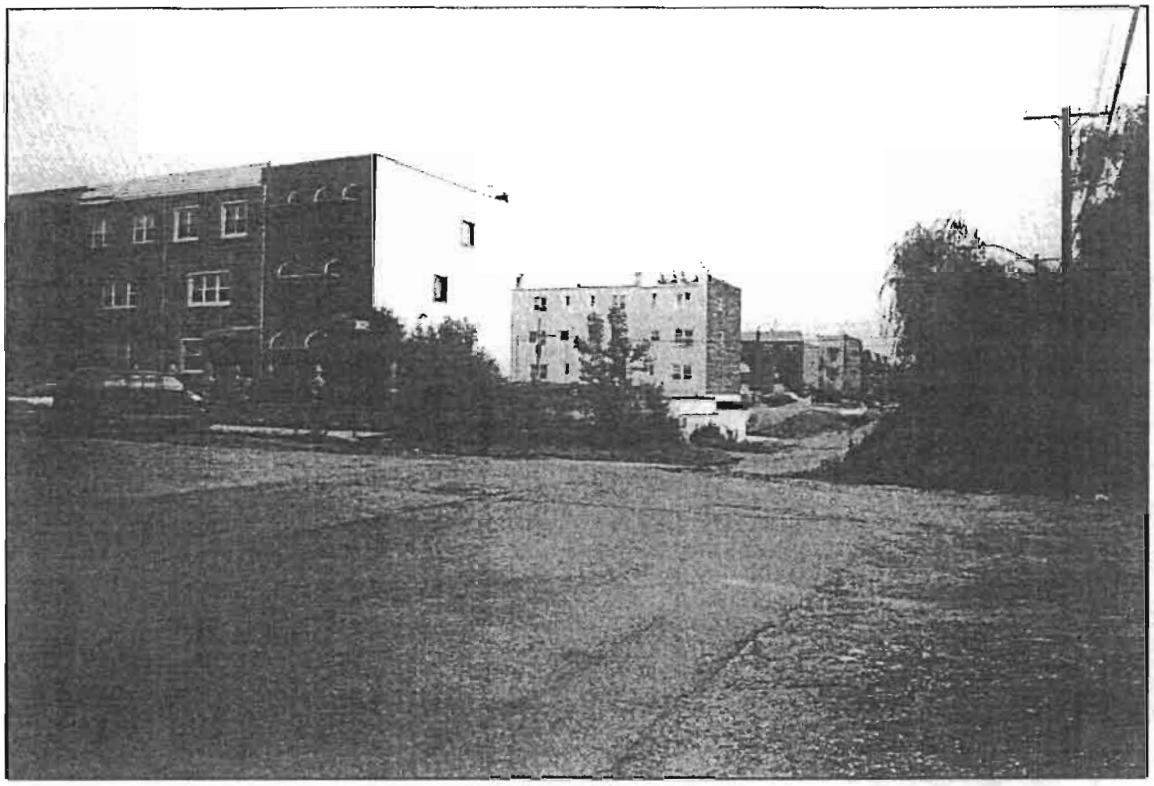

View to the southwest of Miles Avenue at Balcom Avenue with corner of project site at right **13**

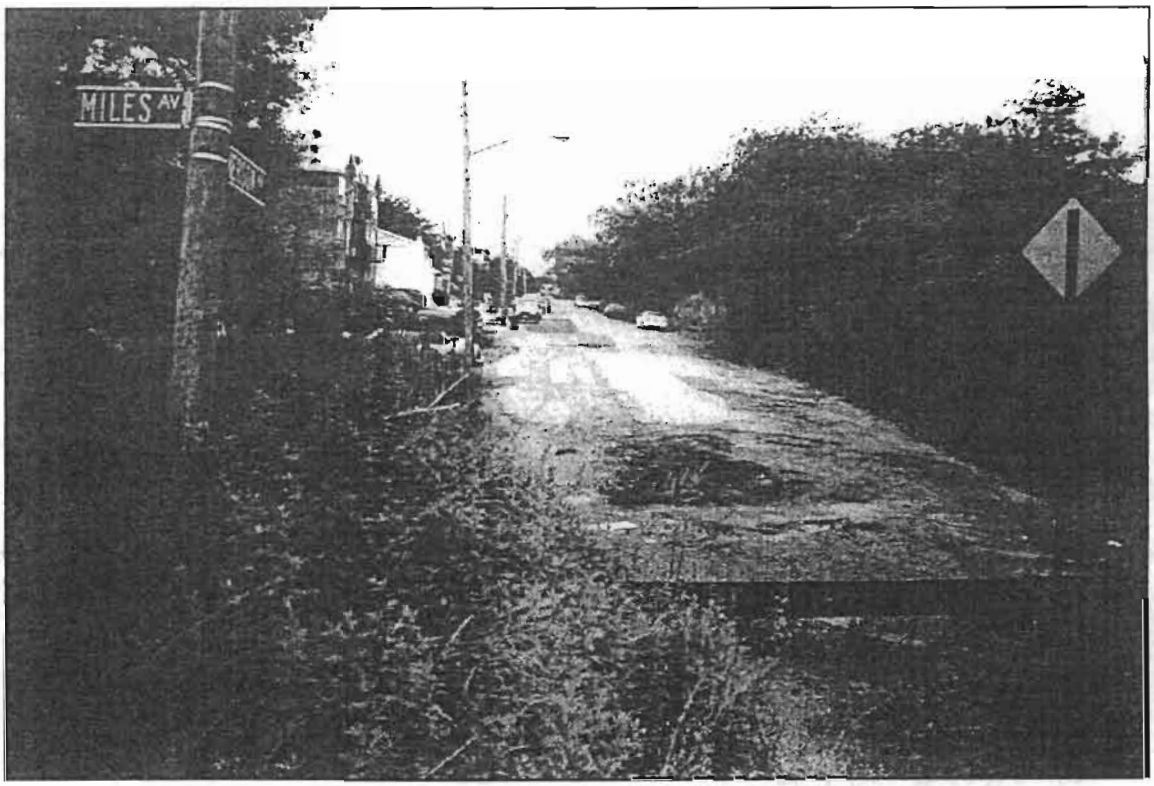

View to the southeast of Emerson Avenue at Miles Avenue with project site at right **14**

Views of the Study Area

Figure C-8

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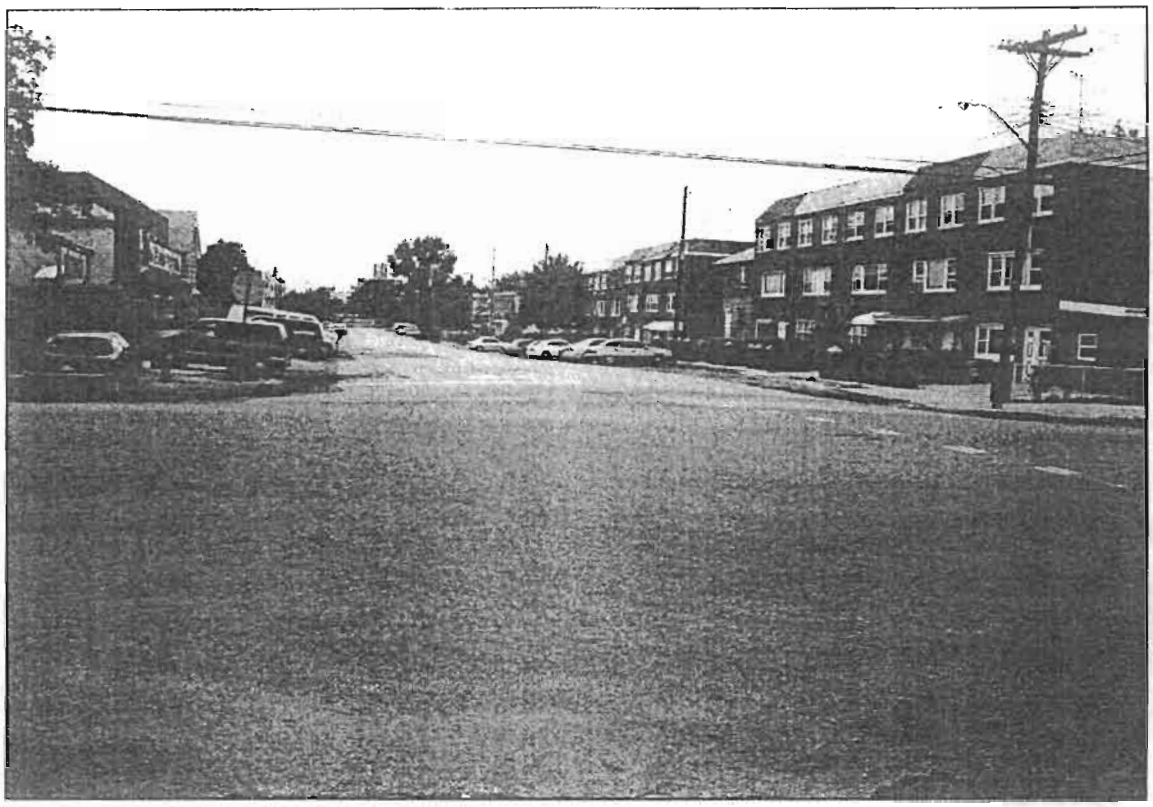

View to the northwest of Balcom Avenue at Harding Avenue **15**

View to the northwest of Buttrick Avenue at Harding Avenue **16**

Ferry Point Park

Views of the Study Area

Figure C-9

GOLF FACILITY

The currently flat terrain of the northern portion of the site would be manipulated to create the ponds and the gently sloping topography that distinguishes golf courses. Native and ornamental grasses would define out-of-play areas from manicured tees, greens, fairways and rough. Trees would be strategically placed throughout the course for articulation and safety precautions. A fence would be constructed along the site's border with the Hutchinson River Parkway. A maintenance building and an artificial lake would be constructed in the northwestern corner of the site adjacent to the existing St. Raymond's cemetery.

There would be three major buildings on the golf course section of the park: the clubhouse, fine-dining/banquet facility, and maintenance building. The clubhouse would be located just east of the bridge. The materials and construction of these buildings would be consistent with a river-oriented location and have wraparound porches and low sloping roofs. The two-story clubhouse would have siding and wood trim. A colonnaded sitting porch would be located on the east side of the building. The large peaked roof would be marked by several semi-circular dormer windows and a prominent chimney. The clubhouse would measure about 110 feet along its east/west elevations and about 75 feet along its north/south side elevations.

The fine-dining/banquet facility would be on the eastern side of the golf course near the waterfront park (described below) and Emerson Avenue. North of the fine-dining/banquet facility and near the intersection of Emerson and Miles Avenues would be the facility managers residence. While the designs for these two buildings have not been finalized, it is expected that the restaurant would be oriented to provide river views for its patrons and the back of the building would face east. In order to buffer the views of the parking areas and the service area of the banquet and dining facility, a landscaped visual barrier most likely consisting of a berm and low wall on top of the berm would be provided along Emerson Avenue (see Figure C-10). The maintenance building would be in the northeastern portion of the site. It would be accessed via the I-678 service road. The building would be landscaped and generally would not affect views of the project site.

With the exception of the community park, all access to the proposed project would be from the west—vehicular, bicycle, and pedestrian access would be from the I-678 service roads under the Bronx-Whitestone Bridge. Vehicular access/egress point to the site would be from the southeastern portion of the I-678 north- and southbound service roads under the Bronx-Whitestone Bridge, which currently is a two-way roadway and would become a two-lane, one-way roadway (see Attachment J, "Transportation"). Visitors would enter the site at this location, pass by a stone gateway on the entrance road (the crescent road), and choose to either proceed north to the golf clubhouse area, or south to the community park and the boathouse grill, waterfront park, or fine dining/banquet facility. Access for emergency vehicles would be via Emerson Avenue. Parking would be provided at each of these areas to accommodate park users.

Pedestrian connections would connect the proposed waterfront park with the existing Ferry Point Park located to the west of the bridge. In addition, pedestrians would be able to access the project site through the same entrance road as vehicles. The proposed project allows for the future implementation of elements of NYC DCP's *1999 Draft Greenway Master Plan: Soundview Park to Ferry Point Park.* Bicycle racks would be provided in the waterfront park.

The driving range would be located near the bridge and north of the clubhouse. The driving range will be lighted for night use, and three adjacent holes of the golf course will be designed

to accommodate lighting for night use. In this location, it is anticipated that the lights illuminating the driving range (and possibly the three adjacent holes—holes 1, 8, and 9—of the golf course) would be designed to accommodate area-specific lighting that is not intrusive to residents in the adjacent area. The driving range will include tees in a structure of approximately 30 by 440 feet and an open driving range area of approximately 400 by 950 feet surrounded by netting approximately 50 to 150 feet in height. The driving range may include a removable dome (for use during the winter months) that would be approximately 400 by 400 feet and approximately 120 feet in height. Views of the driving range from the study area are discussed below.

WATERFRONT PARK

Vegetation and trees would be created to separate the golf course from the waterfront park along the East River. The park is designed to reclaim the waterfront for public use. Pedestrian connections would connect the proposed waterfront park with the existing Ferry Point Park located to the west of the bridge. A barrier-free promenade would rim the water's edge. Paths slightly inland would wind through the newly planted natural grasses. Benches and boulders would provide informal seating opportunities for park visitors. A comfort station and refreshment stand would be provided. The park would connect to the more active section of Ferry Point Park lying west of the Bronx-Whitestone Bridge.

The waterfront park's dining facility, the boathouse grill, would be located just east of the Bronx-Whitestone Bridge. It would be similar in design and materials to the clubhouse and feature a wraparound veranda and a bank of large bay windows facing east toward the park and the river. The building would be 140 feet long (east-west) and approximately 48 feet wide. Its hipped roof would be lower than the gable-ended clubhouse roof and would have identical chimneys at its northern and southern ends. Up to 400 patrons may be accommodated at once in the Boathouse Grill.

COMMUNITY PARK

The community park at Schurz and Balcom Avenues would be transformed from an underdeveloped amenity to a viable center of community recreation and leisure. Community access to the this park would be provided along Schley and Balcom Avenues. The active play area would include a basketball court that would be relocated to be adjacent to the new ballfield. A new artificial lake would be created along Balcom Avenue, extending nearly to its intersection with Miles Avenue. The exact type and location of amenities in the redesigned community park would be determined in consultation with the local Community Board, and are expected to include a tot lot for small children, a rolling lawn area, game tables, shaded seating, sunny seating, lakefront seating, bridge crossings, a botanical discovery path, and a gazebo. From the entry, a landscaped bridge pathway spans a stream of grasses to usher children into the tot lot. This pathway would also direct pedestrians to the tree-lined waterfront walk and the dappled shade of the patios at the lake's edge. The existing ball field would be rebuilt at the northern end of the community park. Separation of uses between the active ball field and the passive landscaped area would be accomplished by the lawn and a liberal tree buffer.

The existing topography is virtually flat. The proposed redesign suggests sculpting the land to create an interesting view vista of the golf course and a usable lounging lawn. The pastoral lawn could be enjoyed from the tree-lined plaza along Balcom Avenue or from the park itself. The rear of the park and the rest of the project site's border with the surrounding streets along

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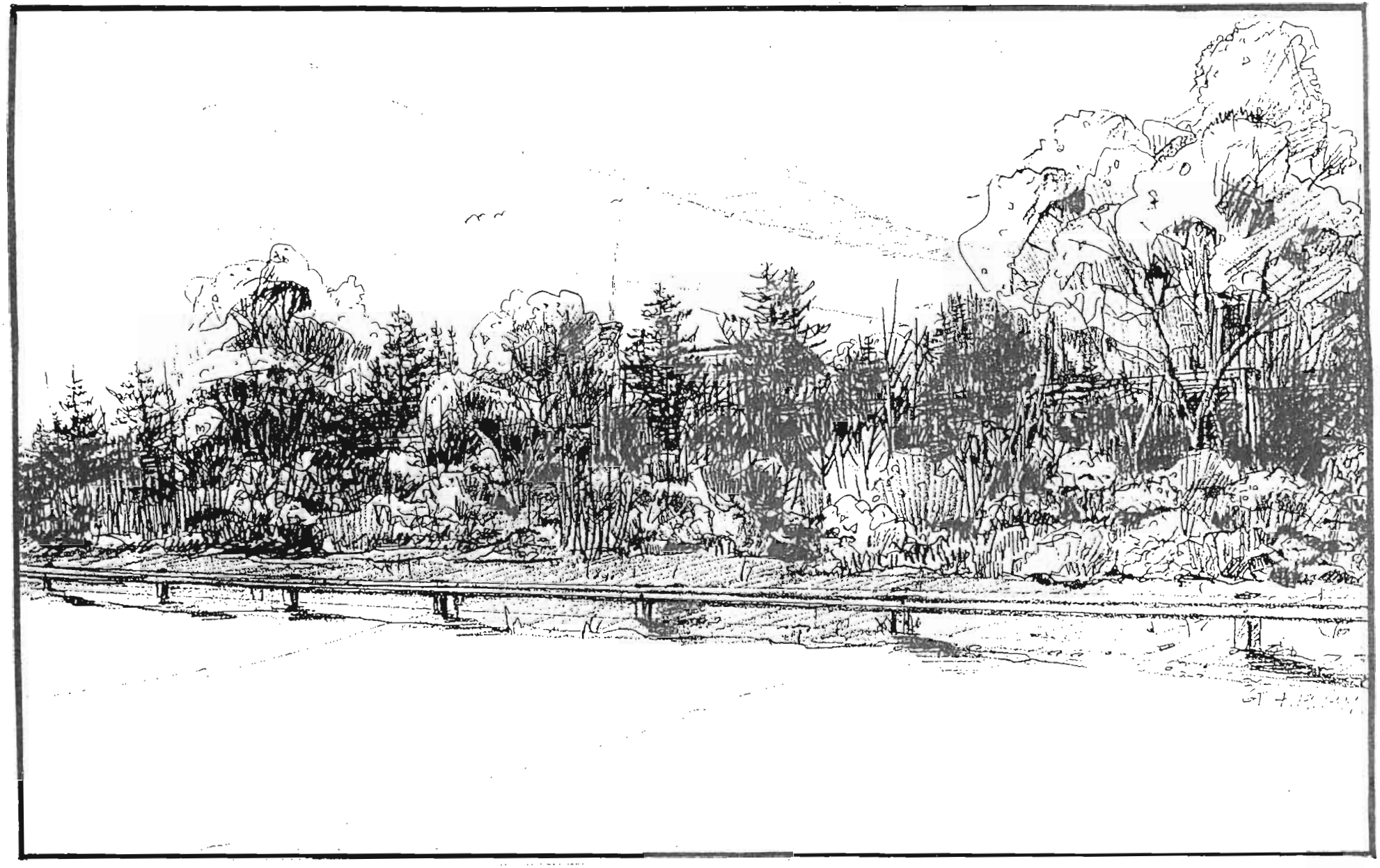

Ferry Point Park

View Along Emerson at Fine Dining/Banquet Facility

Figure C-10

Balcom (southeast of Sampson Avenue), Miles, and Emerson Avenues would be raised in grade and feature a landscaped berm, fence, and trees (see Figures C-11 and C-12).

STUDY AREA

Overall, the landscaping and maintenance of the park's border with the neighborhood, in combination with the removal of the debris and unkempt vegetation, is expected to improve views of the site from nearby residences.

NORTH OF SAMPSON AVENUE

In the vicinity of the community park and its relationship to the Throggs Neck Houses at Balcom Avenue, the view would change from an undeveloped grassy plain in the background to a landscaped, welcoming facility including a lake, lawn, gazebo, and abundant seating. The addition of trees at the rear of the park would screen errant golf balls while allowing glimpses of the golf course beyond. Residents at many locations would have a bucolic lakeside setting with views looking toward the project site. Some residents in higher structures may see the driving range's removable dome; however, the dome would obstruct views of the Bronx-Whitestone toll plaza and the I-678 approaches to the toll plaza. This would not be a negative visual impact.

SOUTH OF SAMPSON AVENUE

Views of the project site from Miles and Emerson Avenues south of Sampson Avenue would be primarily of the landscaped berm at the site's edge. This berm would limit views of the golf course and help finally to define a well-manicured edge for the avenues. Views of the netting and removable, temporary, winter season dome associated with the driving range, service area and parking for the fine-dining/banquet facility, and the facility managers residence near Emerson Avenue would also be buffered by the landscaped berm. Some views of the driving range's removable dome would obstruct views of the Bronx-Whitestone bridge toll plaza and the I-678 approaches to the toll plaza. However, this would not be a negative visual impact. The design of these buildings is intended to be consistent with the riverfront location of the site and with the study area in scale and materials, and are not expected to significantly disrupt the visual enjoyment of the site from the surrounding sidewalks and streets in the surrounding area. Therefore, the proposed project would have no significant adverse visual impacts.

VIEW FROM THE BRIDGE

While viewers on the bridge may have only fleeting views of the site, the introduction of a landscaped and maintained golf course, waterfront park, and community park would be a substantial improvement compared with existing views of an undeveloped landfill site. The netting and removable dome associated with the driving range would be visible from the bridge, but would be consistent with other views of the golf course. Further, the new landscape would be in keeping with original plans for the site which included a golf course at the base of the bridge.

CONCLUSION

Overall, the proposed project would represent a substantial visual improvement over the existing landfill site with its unkempt natural vegetation. Given the visual screening and buffers provided as part of the project, no adverse impacts to the visual or urban design character of the surrounding area are anticipated. ❖

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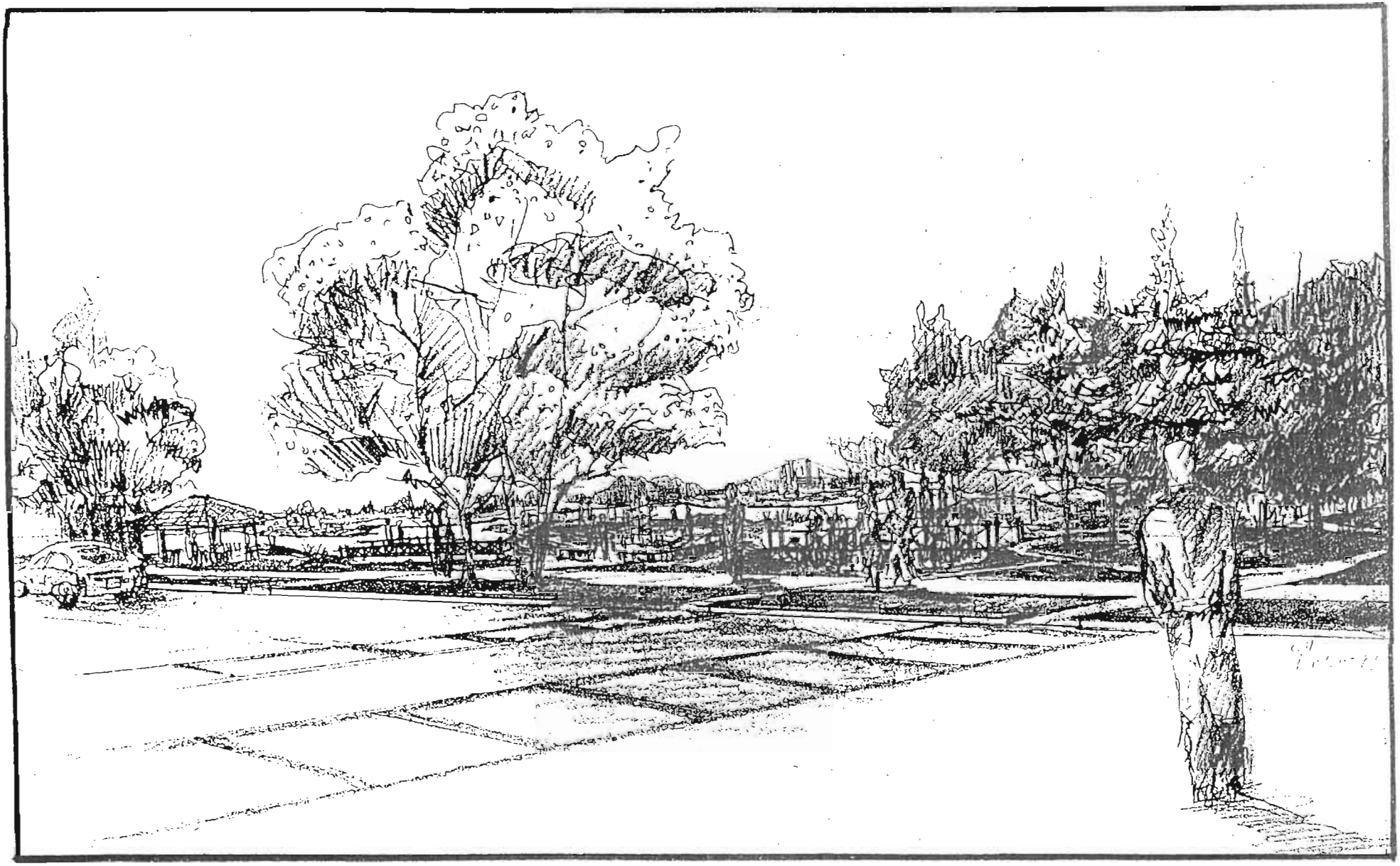

Ferry Point Park

View of Community Park at Dewey & Balcom

Figure C-11

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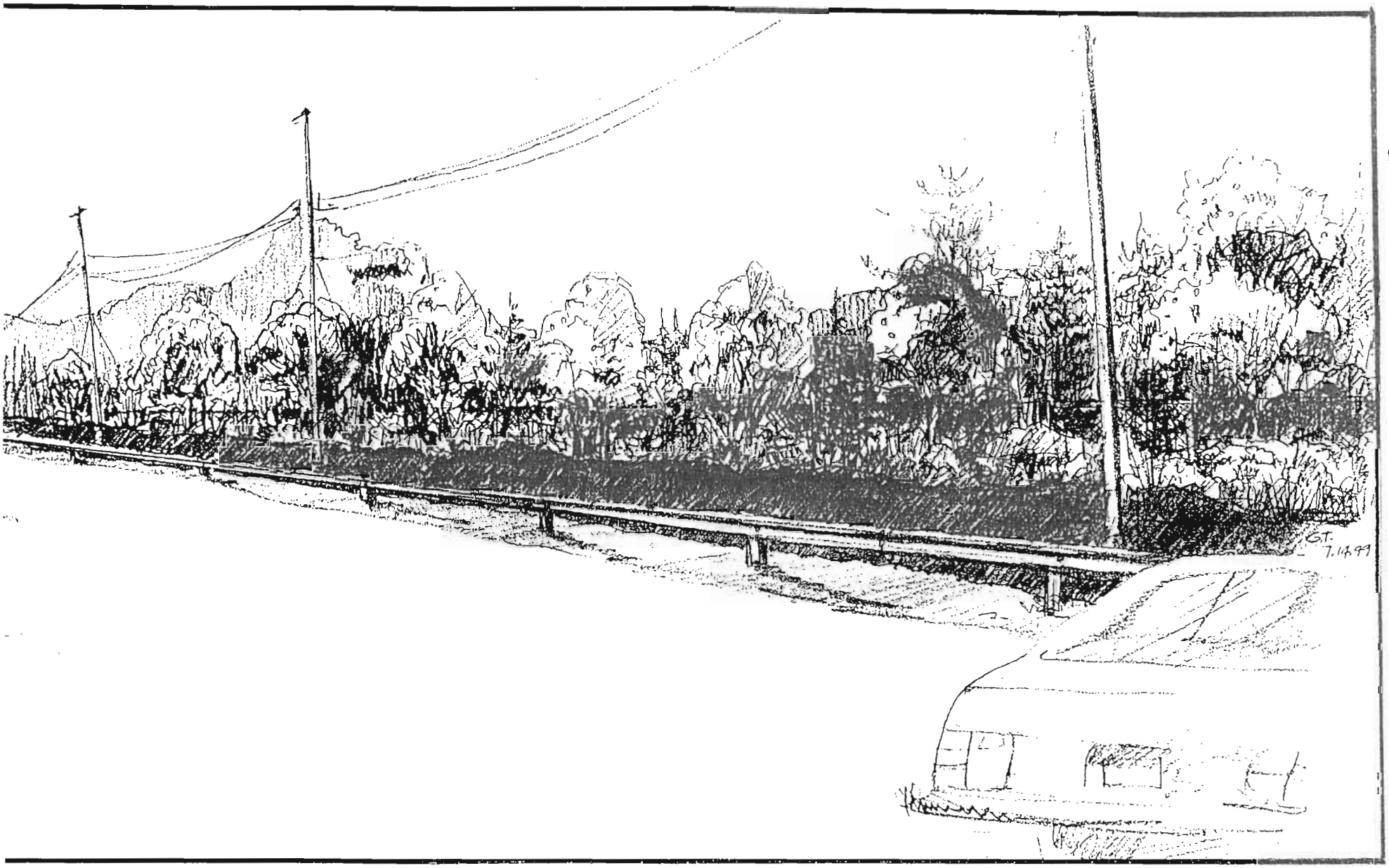

Ferry Point Park

View of Enhanced Berm Along Miles

Figure C-12

Attachment D: Neighborhood Character

A. INTRODUCTION

The analysis of neighborhood character addresses the project's potential effects on the character of the surrounding neighborhood. The elements that determine neighborhood character vary depending on any given community, but generally include some or all of the following: land use and zoning, urban design and visual resources, traffic, and noise, as discussed below. The assessments in this attachment rely on the analyses of these issues prepared for other attachments to the Environmental Assessment Statement (EAS). As described below, the proposed action would change the character of the project site, but would not result in significant adverse impacts to neighborhood character.

B. EXISTING CONDITIONS

The study area for neighborhood character is the same as that analyzed for land use, zoning, and public policy (Attachment B, "Land Use, Zoning, and Public Policy"). The ½-mile study area is bounded by Westchester Creek on the west; Lafayette Avenue on the north; East Tremont Avenue on the east; and the East River on the south.

PROJECT SITE

As described in Attachments B and C, "Visual Resources," the project site is composed primarily of undeveloped park land, with the exception of an organic recycling and composting facility operated by the New York City Department of Parks and Recreation (DPR) at the northwestern corner of the site, and a ballfield and basketball court at the northeastern corner of the site. The organic recycling facility consists of a gray aluminum pole barn. Informal uses on the site include dirt bike trails and a model airplane field. There are two simple aluminum shelters in a fenced enclosure associated with the informal model airplane field. The organic recycling and composting facility and model airplane field uses can be accessed from the I-678 north- and southbound service roads; the ballfield and basketball court and dirt bike trail uses can be accessed from the eastern edge of the site via Balcom and Schley Avenues. The rest of the project site is generally covered with vegetation, and the rocky waterfront area at the southeastern edge of the site along the East River is strewn with debris. Portions of the site are surrounded by chain link fence.

STUDY AREA

Surrounding the project site are the currently developed portion of Ferry Point Park and industrial, commercial, and residential uses (west of the Bronx-Whitestone Bridge), St. Raymond's Cemetery (to the north of the project site), and residential uses (to the east of the project site).

Today, the eastern portion of the study area consists of residential uses and local commercial activity. Overall, the study area includes a wide range of building types, densities, and heights; the structures nearest the project site are small-scale low residential buildings and low-rise

multi-family housing generally without long views. Larger and taller buildings in the area include the Randall-Balcom Houses, which are 6 stories high, and the Throggs Neck Houses, which are 8 to 9 stories high. These public housing complexes are located on large blocks near the northeastern portion of the site. South of Sampson Avenue, there are a variety of housing styles and types, including attached rowhouse buildings, larger peaked-roof houses, and smaller hipped-roof bungalows. These structures are generally 3 stories, with the single-family homes generally standing at 1 to 2 stories. The rowhouse buildings are generally in strips of 5 to 10 duplex or triplex units. Most residential units are set back from the curb with driveways and walkways, and some houses are separated by lawns and other open spaces. St. Raymond's Cemetery, provides a visual and physical barrier on the north side of the project site.

The elevated Bronx-Whitestone Bridge, a suspension bridge that bisects the park, forms a strong visual boundary between the eastern and western portions of Ferry Point Park. The two-way Ferry Point Park access road loops under the bridge, and connects the I-678 north- and southbound service roads. The western portion of the park is currently developed, and includes ballfields and picnic areas, along with a waterfront walking area. The western portion of the study area between the I-678 service roads and Westchester Creek contains predominantly warehousing/storage yard and heavy industrial uses. There are also residential and commercial uses in this area including single- and two-family detached houses, a hotel, and office buildings. This portion of the study area also contains some vacant lots. Warehousing and heavy industrial uses in this area are generally located to the west side of Brush Avenue. Land uses across Westchester Creek are similar to those on the east side of the creek, primarily including commercial, industrial, and warehousing uses, along with a number of overgrown vacant parcels. The buildings in this area generally range from 1 to 2 stories.

Traffic conditions in the area, as discussed in Attachment J, "Traffic," generally reflect the study area's uses and location near the Bronx-Whitestone Bridge, with connections to the Throgs Neck Bridge and the Cross-Bronx Expressway. Streets within the study area have a mixed character; east of the project site, lightly traveled local streets, including Balcom, Schley, and Miles Avenues serve the residential uses discussed above. East Tremont Avenue, a major roadway in the study area that provides access to and from the Throgs Neck Bridge, serves commercial development, including a drugstore, supermarket, and local restaurants and offices. At the northern portion of the study area, Lafayette Avenue provides access to the local residential streets located between East Tremont Avenue and the I-678 northbound service road. Brush Avenue, which is also lightly traveled, is a north-south roadway located at the western portion of the study area, and serves the primarily industrial uses along Westchester Creek. Brush Avenue also provides access between the Lafayette Avenue, the I-678 service roads, Bruckner Boulevard, and the Cross-Bronx Expressway.

As discussed in Attachment L, "Noise," the project site and its immediate environs are subject to frequent flyovers by aircrafts traveling to and from LaGuardia Airport. As a result, the entire study area experiences marginally unacceptable noise levels. However, the residential portion of the study area, east of the project site, experiences marginally acceptable noise levels that may be attributed to a combination of general background traffic levels in the area, as well as aircraft flyovers.

C. THE FUTURE WITHOUT THE PROJECT

PROJECT SITE

In the future without the proposed project, there would be no changes to existing uses on the project site.

STUDY AREA

As described in Attachment B, "Land Use, Zoning, and Public Policy," additional residential units are currently under construction within the study area and will be completed by 2002, the analysis year for the project. However, this development is similar to existing residential uses east of the project site, and the overall character of the study area is not expected to change in the future without the proposed project. Additionally, overall background traffic growth at study area intersections would occur, but the character of traffic in the study area will remain the same. There would be no significant changes to noise levels in the area.

D. PROBABLE IMPACTS OF THE PROPOSED PROJECT

The proposed project would not cause significant adverse impacts in any of the following elements that make up the character of the neighborhood: land use and zoning, visual resources, traffic, or noise. The project would change the land use and visual character of the project site; bring new activity to the currently undeveloped portion of Ferry Point Park; and would increase traffic. Overall, the project would not change the neighborhood character of the immediate area by expanding a currently existing park use.

PROJECT SITE

The project would change the land use and appearance of the site by replacing vacant and overgrown land with a landscaped, organized recreational use. The proposed regional recreation facility would result in three distinct sections of the park: a golf facility occupying the majority of the site; a waterfront park in the section of the site adjacent to the East River; and a community park near Balcom and Schley Avenues. Furthermore, the waterfront park is designed to reclaim the waterfront for public use. Overall, the project would result in the expansion of the existing park use, and would develop 7.0 acres of community park and 19.5 acres of waterfront park, in addition to a golf facility, restaurant, and fine dining/banquet uses. As part of the proposed project, two unbuilt and undeveloped streets—Emerson Avenue between Miles and Schley Avenues, and Schley Avenue between Buttrick and Emerson Avenues—would be demapped and remapped as park land, adding approximately 6 acres of new park land. The development of the project would connect the site to the more active section of Ferry Point Park west of the Bronx-Whitestone Bridge. The organic recycling and composting facility currently on the site would be relocated. Best efforts would be made to relocate the informal model airplane field.

Visually, the project consists primarily of landscaping and five moderately sized buildings, which would be seen from a radius of only a few blocks in most cases. The residential structures nearest to the project site are low-rise buildings generally without long views. The closest views of the proposed structures on the project site are from the blocks adjacent to the proposed fine dining/banquet facility and the facility manager's quarters along Emerson Avenue. Visual screening and buffers would be provided as part of the project, and landscaping would represent a visual improvement over the existing landfill site with its unkempt natural vegetation. Along

Emerson Avenue, the golf facility portion of the site where the clubhouse, fine dining/banquet facility, and maintenance building would also be located, would be buffered by a landscaped visual barrier most likely consisting of a berm and low wall on top of the berm. In addition, the fine dining/banquet facility is designed to include an 8- to 10-foot noise barrier with landscaping along Emerson Avenue. This barrier would be located behind the fine dining/banquet facility to minimize the effects of this facility on the adjacent community. This barrier would also reduce noise from any vehicle movements and truck deliveries or other service area events. Near the bridge at the western portion of the site, the driving range will be lighted for night use; the lighting associated with this use will be designed to accommodate area-specific lighting that is not intrusive to residents in the adjacent area. The driving range will include tees in a structure approximately 30 feet in height, and will be surrounded by netting approximately 50 to 100 feet in height. The driving range may also include a removable dome (approximately 120 feet in height) that would be utilized during the winter months. This netting and removable, temporary, winter season dome would be visible from the Bronx-Whitestone Bridge, and would be consistent with other views of the golf course. Views of the driving range's removable dome would obstruct views of the Bronx-Whitestone Bridge toll plaza and its approaches from the upper levels of some residences. Furthermore, landscaping associated with the park's border with the neighborhood would likely screen residences at lower levels from views of the driving range. The waterfront park, which would connect the currently developed portion of Ferry Point Park west of the Bronx-Whitestone Bridge, would be separated from the golf course by a ridge, and a barrier-free promenade would rim the water's edge. The existing community park at the northeastern portion of the project site would be transformed from an underdeveloped amenity to a viable center of community recreation and leisure, and would be accessible to residential areas in the eastern section of the study area. The existing ballfield and basketball court would be rebuilt at the northern end of the community park.

With the exception of the community park, all access to the proposed recreation facility would be from the west—vehicular, bicycle, and pedestrian access would be from the I-678 service roads under the Bronx-Whitestone Bridge. Vehicular access/egress point to the site would be from the southeastern portion of the I-678 north- and southbound service roads under the Bronx-Whitestone Bridge, which currently is a two-way roadway and would become a two-lane, one-way roadway (see Attachment J, "Transportation"). With the exception of the community park, the proposed recreation facility would be primarily a regional park. Visitors would enter the site at this location, pass by a stone gateway on the entrance road (the crescent road), and choose to either proceed north to the golf clubhouse area, or south to the community park and the boathouse grill, waterfront park, or fine dining/banquet facility. Access for emergency vehicles would be via Emerson Avenue. Parking would be provided at each of these areas to accommodate park users. Pedestrian connections would connect the proposed waterfront park with the existing Ferry Point Park located to the west of the bridge. In addition, pedestrians would be able to access the project site through the same entrance road as vehicles. Bicycle racks would be provided in the waterfront park.

Incremental noise associated with newly created park land and park activities, including grass maintenance and mowing operations, operation of the fine dining/banquet facility, and the new ballfield in the community park, is not expected to be significant.

STUDY AREA

The project would complement the existing developed western portion of Ferry Point Park by connecting its waterfront portion to the proposed recreation facility that would include public restaurants and banquet facilities with water views as well as a public golf facility. The community park would serve residents to the east of the site, and would be accessed separately via Schley and Balcom Avenues. The proposed project would add recreation facilities and would have a positive impact relative to land use. The project would also be in keeping with Robert Moses's original plans for the site, which included a golf course at the base of the bridge. Overall, the landscaping and maintenance of the park's border with the neighborhood, in combination with the removal of the debris and unkempt vegetation, is expected to improve views of the site from nearby residences. Residents at many locations near the northeastern portion of the project site (north of Sampson Avenue) would have a bucolic lakeside setting with views looking toward the project site. South of Sampson Avenue, views would be primarily of the landscaped berm at the site's edge, which would define a well-manicured edge for Miles and Emerson Avenues. Views from the Bronx-Whitestone Bridge would include a landscaped and maintained golf course, waterfront park, and community park, which would be a substantial improvement compared with existing views of an undeveloped landfill site.

The proposed actions would add park users traveling through the study area and would therefore add some new vehicles to the area's streets. Additional traffic generated by the proposed project would not have a significant adverse impact on the local community, and planned improvements to the Ferry Point Park Access Road, the intersection of Lafayette Avenue and the I-678 service roads, and the intersection of Lafayette and East Tremont Avenues would facilitate traffic flows. These improvements include coordinating the signal at the I-678 northbound service road at Lafayette Avenue with the signal at the I-678 southbound service road at Lafayette Avenue, restriping the westbound approach at the I-678 southbound service road at Lafayette Avenue to include an exclusive left-turn lane and signal phase, and daylighting (restricting the use of up to three parking spaces) the northbound approach at the intersection of East Tremont and Lafayette Avenues during the weekday PM peak period. As noted in Attachment J, "Transportation," traffic generated by the project would not result in noticeable changes in noise levels in the study area.

Overall, no significant adverse impacts on neighborhood character from the proposed project would occur. ❖

Attachment E

Natural Resources

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30 September 1999

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1.0 INTRODUCTION

The purpose of this attachment is to describe the existing natural conditions on the eastern portion of Ferry Point Park, and the potential effects of the proposed public recreational facility on these resources. Recommended measures to ensure that potential adverse impacts are avoided are also discussed. The following sections describe: the methods used in the evaluations, the existing natural resources on the Ferry Point Park site, and the future conditions of the natural resources both with and without development of the proposed public recreational facility.

2.0 STUDY AREA

The Ferry Point Park site, the study area, is located on approximately 220 acres owned by the City of New York in Bronx County, New York. It is bounded by the Bronx-Whitestone Bridge along Interstate Route 678 (Hutchinson River Parkway) to the west; Balcom, Miles, and Emerson Avenues to the east; St. Raymond's cemetery and Schley Avenue to the north; and the East River to the south. The Ferry Point Park site makes up the eastern portion of the 414-acre Ferry Point Park, which is split by the Bronx-Whitestone Bridge. This portion of the park was used to dispose municipal solid waste in the 1950's up through the early 1960's. The relatively low-quality ruderal (plant that is colonizing waste ground) communities found on the site are fairly typical of disturbed lands in this region of the state.

The western portion of Ferry Point Park consists of recreational playing fields, grassy areas and woodlands bounded by Westchester Creek to the west, the bridge to the east, the East River to the south and developed land to the north—will not be altered as part of this project. Only the eastern portion of the park will be developed as part of the proposed public recreation facility, and is the focus of this evaluation.

3.0 SUMMARY OF THE PROPOSED PROJECT

Attachment A provides a detailed project description. This section provides a brief overview of the most salient project features. The Ferry Point Park project is a public recreation facility, consisting of an 18-hole comprehensive golf facility, boathouse grill/restaurant, fine dining/banquet facility, waterfront park, and community park. Parking areas will be provided for each of the facilities.

3.1 *Golf Facility*

The comprehensive golf facility will consist of a clubhouse, a driving range, tees, greens, fairways and rough, and cart paths, ponds, and vegetated out-of-play areas with native and ornamental grasses, and some trees. The course elevation will vary from 10 feet above sea level along the East River, to 40 feet above sea level at the interior of the site. Table 3.1 presents a breakdown of the acreages for the various components.

Table 3.1 *Acreages for golf course components*

Component	Acres
Tee Areas	5.88
Fairway	36.6
Rough	71.3
Bunkers	3.43
Greens	4.52
Waste Areas (grasses and other natural vegetation with some trees)	1.48
Lakes (four lakes)	10.24
Dry basins	1.58
Native Areas	22.85

Impermeable areas total approximately 14.62 acres. They include parking lots, rooftops, cart paths, and roadways.

The golf course area will be cleared of existing vegetation. The lakes will be excavated first and graded to serve as sediment control basins during construction. To create the undulations in the golf course, between 300,000 and 500,000 cubic yards of dirt will be imported to the site. Attachment G provides a description of the fill material. Approximately 1 to 1.5 feet of fill will cover the golf course area, topped by 6 inches of clean soil. The waterfront park and community park, discussed below, will have 1.5 feet of soil over any fill material. The irrigation system will be installed at this time. Following the contouring and stabilization of the fill material, the clubhouse, boathouse grill/restaurant, fine dining/banquet facility, and two parks will be constructed.

3.2 *Waterfront Park*

The approximately 19.5-acre waterfront park will provide passive recreational opportunities such as walking, birdwatching, and picnicking, as well as the boathhouse grill/restaurant. It will include a waterside trail surrounded with low-growing natural vegetation that joins with a system of paths interwoven throughout the park. The interior of the park will be landscaped with natural vegetation associations. Benches and boulders will be scattered along the pathways to provide seating. Picnic tables will also be provided along with parking for approximately 120 vehicles.

A comfort station and refreshment stands will be provided in the middle of the park waterfront. The boathouse grill/restaurant will be located at the southwestern tip of the waterfront park. It will consist of the building housing the restaurant, parking for approximately 75 vehicles, bike racks, and stormwater management facilities.

3.3 *Community Park*

The approximately 7.0-acre community park will be located at the northeast corner of the site where Schley intersects with Balcom Avenue. It will provide active and passive recreational opportunities through its softball/baseball field, basketball court, tot lot for small children, tot lawn area, game tables, lawn area, shaded seating, sunning seating, lake-front seating, bridge crossings, botanical discovery path, gazebos, and an overlook next to the approximately 4.5-acre lake (part of the stormwater management system) immediately to the south of this park.

The pathway portion of the park next to the lake will be planted with trees. The botanical discovery path will be lined with native and ornamental grasses as it meanders along the lake's edge. A portion of the path to the lake will be tree-lined.

4.0 *SITE EVALUATION METHODS*

Site visits were made to the project area on the following dates:

- 18 and 19 May 1999 to delineate wetlands, initiate the natural resources inventory and meet with the surveyors;
- 16 June 1999 to complete the wetlands delineation, continue the natural resources inventory, and document woodland resources; and
- 22 June 1999 to complete the natural resources inventory and document woodland resources.
- 15 September 1999 to discuss a small area dominated by high marsh grasses along the East River with representatives from the State and City.

The following sections discuss the methods used to conduct the wetlands assessment, and the survey of vegetation communities, and terrestrial and aquatic animals.

4.1 *Wetlands*

In the State of New York, freshwater wetlands are under the jurisdiction of New York State Department of Environmental Conservation (DEC) and the U.S. Army Corps of Engineers (COE). In accordance with *The Freshwater Wetlands Act* (Article 24, Freshwater Wetlands), DEC limits its jurisdiction to wetlands 12.4 acres or larger. These wetlands are indicated on DEC freshwater

wetlands maps. DEC also regulates activities in tidal wetlands in accordance with The Tidal Wetlands Act (Article 25 of the Environmental Conservation Law). COE regulates the placement of dredged and fill materials in "Waters of the United States"; this includes streams, lakes, impoundments, intermittent drainageways and associated wetlands in accordance with Section 404 of the *Clean Water Act* and the placement of structures over, in, or on the banks of navigable waters in accordance with Section 10 of the *Rivers and Harbors Act of 1899*.

COE defines wetlands as:

> "Those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas."

The *U.S. Army Corps of Engineers Wetlands Delineation Manual of 1987 (Environmental Laboratory 1987)* is the preferred wetland delineation manual of both COE and DEC. In accordance with this manual, our scientists used existing soil, wetland, and topographic information, in conjunction with field investigations, to describe and delineate areas of the site under the jurisdiction of COE.

The delineation procedure presented in the *U.S. Army Corps of Engineers Wetlands Delineation Manual of 1987* involves a thorough investigation of vegetation, soil and hydrology. Based on this approach, an area is defined as a wetland if it exhibits, under normal circumstances, all of the following characteristics:

- The land supports a dominance of hydrophytic vegetation.
- The substrate is hydric soil.
- The soil/substrate is at least periodically saturated or inundated during a significant portion of the growing season.

A hydrophyte is any plant that has the ability to grow in water or on a substrate that is at least periodically deficient in oxygen as a result of excessive water content and depleted soil oxygen levels. The U.S. Fish and Wildlife Service (USFWS) has prepared a list of wetland plant species for the Northeast Region, Region I (USFWS 1988). The plant species listed in this publication are classified based on their affinity for wetlands. Table 4.1 lists the wetland indicator classification assigned to each species.

Table 4.1 ***Plant affinity for water condition***

Classification	Percent Occurrence in Wetlands
Obligate (OBL)	>99
Facultative Wetland (FACW)	67-99
Facultative (FAC)	34-66
Facultative Upland (FACU)	1-33
Non-wetland (UPL)	<1

A positive (+) or negative (-) symbol used in conjunction with one of the facultative indicator classes relates to a species preference to either the wetter or drier end of its indicator class. The positive sign indicates a preference to the wetter end. This wetland indicator classification was used for plant species found at the site. A designation of NI (no indicator) was indicated in the regional list for those species for which insufficient information was available to assign an indicator class. We assigned a designation of NL if a species was not present in the list. Plants not listed are presumed to be upland species (Environmental Laboratory 1987).

Hydric soils are very poorly drained, poorly drained, or somewhat poorly drained soils that have the seasonal high water table within 6 inches of the surface (Environmental Laboratory 1987). These soils are typically predominantly gray and mottled immediately below the "A" horizon and have thick, dark colored surface layers.

Areas that were not wetlands, but under State jurisdiction (i.e., streams, lakes, impoundments and intermittent drainageways), were also delineated. Positive indicators of wetland hydrology were noted whenever encountered. Any changes in the environment that may influence the hydrology of the area such as ditches or drainage systems were also noted.

Prior to initiation of its fieldwork, our scientists conducted a thorough review of available data sources such as the USFWS National Wetland Inventory maps, and site plans depicting topography. For the wetlands investigation, representative sampling points were established along the wetlands line. At each sampling point, we collected data regarding the vegetation, soil and hydrology to determine whether the area met the wetlands definition. This information will be provided to COE as part of the request for jurisdictional determination.

The limit of all areas determined to be regulated or possibly regulated by either COE or DEC were identified and flagged in the field. The flag locations were surveyed and the proposed wetland boundaries were included on the site plans. The limit of COE jurisdiction along the East River is indicated by the limit of the mean high water line.

4.2 *Vegetation Communities*

The vegetation communities were mapped and classified during all of the site visits. Our scientists traversed all portions of the site, described the vegetation observed, and then identified the various plant communities on a site map or aerial photograph. Plant species were recorded for each plant community. Once the woodland areas were identified, we counted the number of specimens with a diameter at breast height (dbh) greater than 6 inches.

4.3 *Wildlife*

Wildlife observations were recorded during all site visits. Direct observations (sightings) as well as indirect observations (calls, tracks and scat) were recorded, along with the vegetation community where the animal was observed. On the 16 June 1999 site visit, wildlife observations were initiated at sunrise to record bird activity. Aquatic species were recorded from visual observation of the intertidal area at low tide.

5.0 *EXISTING CONDITIONS*

This section describes the existing vegetation communities including woodlands and wetlands, and wildlife observed or expected to occur on the site, as well as the aquatic resources of the East River in the vicinity of the Ferry Point Park site.

5.1 *Vegetation Communities*

In general, the two sides of the park support different vegetation communities. This assessment focused on the eastern portion of the park, the Ferry Point Park site, where the project has been proposed. The eastern portion of Ferry Point Park supports a mixture of common reed (*Phragmites australis*), clusters of trees (tree of heaven (*Ailanthus altissima*), black locust (*Robinia pseudoacacia*), willow (*Salix* sp.), cherry (*Prunus* spp), and mixed grasses growing on landfill. A detailed description of the existing plant communities is presented below. The western portion of the park will not be modified by the project—it consists of recreational fields, grassy areas, and scattered tree stands. The largest stand of trees is adjacent to the Bronx-Whitestone Bridge—it contains American beech and red maple and has a fairly well developed understory. Adjacent to Westchester Creek on the western border of this section, vegetation consists of numerous saplings, unpruned hornbeam, and high grasses and herbs. The western portion of the park provides active recreational (athletic fields) and passive recreational (walking and bird watching) opportunities (Urban Forest & Education Program 1994).

Appendix E1 lists the plant species observed in the project area and the community types where they were found. The Ferry Point Park site (Figure 5.1) has seven distinct categories of plant communities/land use: two types of

Plant Communities and Landuse Categories for Ferry Point Park Public Recreational Facility

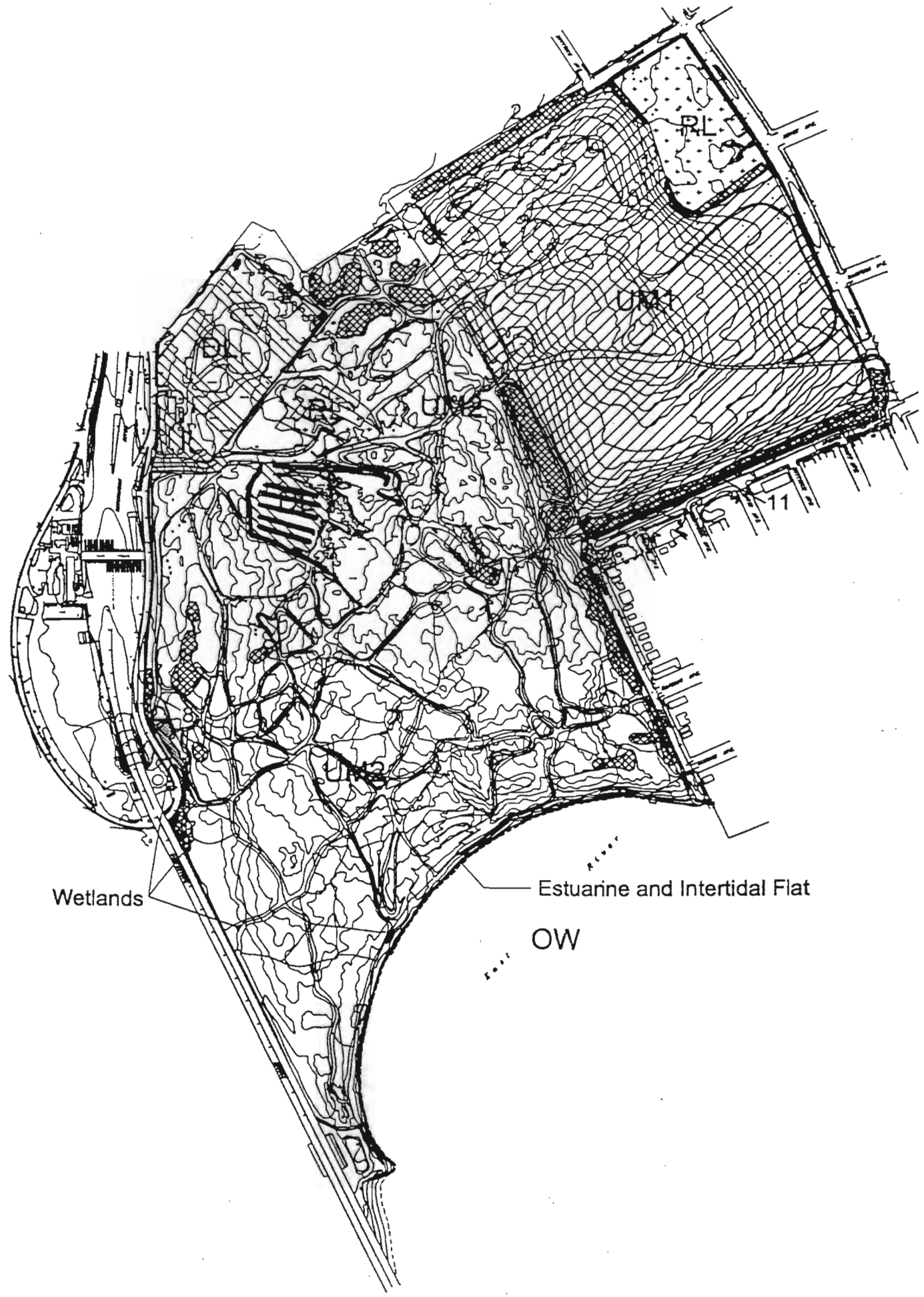

- Urban Meadow 1
- Urban Meadow 2
- Recreational Land
- Developed Land
- Woodland Areas
- Wetlands
- OW Open Water

Figure 5.1

urban meadow, developed land, recreational land, urban woodland, emergent wetland, and estuarine intertidal flat. Most of the site is covered by the two urban meadow communities—differentiated by the composition of plant species. The species composition of the plant communities reflects the site's disturbed nature and urban setting. A small area (no greater than 12 by 8 feet) dominated by high marsh grasses occurs at the top or the revetment along the East River that DEC and the New York City Department of Parks and Recreation (DPR) have requested be preserved. The following sections describe the remaining plant communities found on the site.

5.1.1 *Urban Meadow 1 (Mixed Grasses)*

This urban meadow community occurs on the eastern portion of the site, and covers approximately 59 acres. A variety of pasture grasses and forbs dominate this community. Common grass species observed in this community type include: smooth brome grass (*Bromus inermis*), orchard grass (*Dactylis glomerata*), red fescue (*Festuca rubra*), Kentucky blue grass (*Poa pratense*) and downy cheese (*Bromus tectorum*). A few patches of common reed (*Phragmites australis*) are scattered through the meadow. A variety of forbs occur interspersed throughout this grassland community that include: daisy fleabane (*Erigeron annuus*), yarrow (*Achillea millefolium*), yellow sweet clover (*Melilotus officinale*), everlasting pea (*Lathyrus latifolius*), chicory (*Cichorium intybus*), ox-eye daisy (*Chyrsanthemum leucanthemum*), rough-fruited cinquefoil (*Potentilla recta*) and mugwort (*Artemisia vulgaris*). Woody plants such as tree of heaven (*Ailanthus altissima*), black locust (*Robinia pseudoacacia*) and staghorn sumac (*Rhus typhina*) are present in small patches along the periphery of this area. Other woody species identified in this area included rugose rose (*Rosa rugosa*) and tartarian honeysuckle (*Lonicera tartarica*)

The dominance of pasture grasses in this portion of the site and the absence of these species elsewhere, suggests a different history for this portion of the site. Based on the types of species identified in this area, it is likely that this area as once seeded with a pasture mix.

5.1.2 *Urban Meadow 2 (Common Reed/Mugwort Community)*

The second urban meadow (common reed/mugwort) plant community occupies approximately 119 acres in the western portion of the site. This community is a mosaic of areas dominated by either common reed or mugwort that are readily apparent in the field, but not easily distinguished on aerial photography.

In general, the common-reed-dominated areas occur mostly in the western-most portion of this community type. These areas are essentially dense, mono-specific stands of common reed with few other species. Other herbaceous species observed within stands of common reed include blackberry (*Rubus allegheniensis*) and mugwort. Additional species such as pineapple weed

(*Matricaria matricaroides*), downy cheese, ragweed (*Ambrosia artemisiifolia*), spiderwort (*Tradescantia virginiana*), path rush (*Juncus tenuis*), deptford pink (*Dianthus armeria*), and lamb's quarters (*Chenopodium album*), occur along the edges of the paths that dissect the common-reed-dominated areas.

The mugwort-dominated component of the Urban Meadow 2 community type occurs mostly in the eastern and northern portions of this mapping unit. It has a more diverse species composition than the common reed dominated areas. Other species identified in mugwort dominated areas include: ragweed, bull thistle (*Cirsium vulgaris*), rough-fruited cinquefoil, common milkweed (*Asclepias syriaca*), dogbane (*Apocynum* sp.), evening lychnis (*Lychnis alba*), seaside goldenrod (*Solidago sempervirens*), daisy fleabane, quack grass, curled dock (*Rumex crispus*) and field bindweed (*Convolvulus arvensis*).

Patches or individuals of staghorn sumac, tree-of-heaven, black locust or cottonwood (*Populus deltoides)* are also scattered through this area. Larger patches of woodland vegetation are described in subsequent sections.

5.1.3 Developed Land

The approximately 14-acre developed land, land use type, is assigned to areas where land use precludes the establishment of vegetation. These areas include the two New York City Department of Sanitation facilities—a composting facility and an organic recycling facility—in the northwest portion of the site, proximate to the tollbooths of the Bronx-Whitestone Bridge.

5.1.4 Recreational Land

This community type is assigned to two areas that are subjected to frequent mowing to facilitate recreational activities. The largest recreational area (approximately 6.6 acres) is located near the intersection of Schley Avenue and Balcom Avenue, and includes a softball field and a basketball court. The second recreational area (approximately 3.2 acres), an informal model airplane area, is used as an airfield for an organized group of radio-controlled model airplane enthusiasts. It is located to the south of St. Raymond's cemetery and adjacent to the New York City Department of Sanitation facilities. The area includes a macadam runway, a gravel runway, a gravel parking lot, and a pavilion.

Lawn grasses and a variety of weeds dominate the vegetation in the recreational areas. The species observed include: dandelion, English plantain (*Plantago lanceolata*), common plantain (*Plantago major*), white clover (*Trifolium repens*) and pineapple weed. Some woody vegetation is located in the recreational area with the ball field. A row of sycamore (*Platanus* sp.), basswood (*Tilia* sp.) and black locust occur along Balcom Avenue. Several willow oak (*Quercus phellos*), a red mulberry, and a gingko (*Gingko biloba*)

occur in the northwest corner of this area. The gingko is a multi-stemmed tree in which the cumulative diameter at breast height (dbh) of the three stems totals approximately 47 inches.

5.1.5 *Urban Woodland*

Wooded areas, comprised mostly of species typical of disturbed habitats, are scattered throughout the site. They cover approximately 12 acres in total. Each of the areas designated on Figure 5.1 as woodland possesses at least ten trees with a dbh greater than 6 inches. Scattered individual trees could not be accurately mapped on the site plan, but are included in the census of the trees with a dbh greater than 6 inches, as appropriate. The following sections describe each woodland area and the number of trees possessing a dbh greater than 6 inches.

Woodland Area 1

For the most part, this woodland area borders the western and southern edge of the recreational area in the northeast corner of the site. This narrow band of woodland consists almost entirely of cottonwood. In addition, there are several black locust, basswood, willow oak, red mulberry and a gingko present in the park. While not mapped, these individuals are included in the census. This woodland has 46 trees with a dbh greater than 6 inches.

Woodland Area 2

This area consists of widely scattered trees bordering an abandoned unimproved road adjacent to the cemetery. The 72 trees in this area are a mixture of cottonwood and black locust.

Woodland Area 3

The largest woodland area, area 3 is located in the western portion of the site, at the northeast corner of the New York City Department of Sanitation facilities. It consists of several distinct patches of woodland separated by urban meadow. Each distinct patch of woodland is dominated by either cottonwood, black locust, or tree-of-heaven. Approximately 204 trees with dbh in excess of 6 inches are found in this woodland.

Woodland Area 4

This woodland corridor is located between the Urban Meadow 1 (Mixed Grass) community and the Urban Meadow 2 (Common reed/Mugwort) community in the center of the site. Approximately 45 trees with a dbh greater than 6 inches are present in this woodland, which consists almost entirely of black locust with a single sassafras (*Sassafras albidum*). A large stand of staghorn sumac occurs at the eastern end.

Woodland Area 5

This area consists of a single species patch of tree-of-heaven that is located just north of where Miles Avenue intersects with Emerson Avenue. Approximately 23 trees have a dbh greater than 6 inches.

Woodland Area 6

This woodland is located along nearly the entire length of Emerson Avenue, south of where it intersects with Miles Avenue—it is the most species rich woodland on the site and has approximately 157 individuals with a dbh greater than 6 inches. The species observed in this woodland include: sweet cherry (*Prunus avium*), Norway maple (*Acer platanoides*), tree-of-heaven, black locust, black cherry (*Prunus serotina*), red mulberry, pin oak (*Quercus palustris*), white ash (*Fraxinus americana*), black willow (*Salix nigra*) and silver maple (*Acer saccharinum*). The fairly well developed understory includes Japanese honeysuckle (*Lonicera japonica*), poison ivy (*Toxicodendron radicans*), and grape (*Vitis* sp.). Japanese knotweed (*Polygonum cuspidatum*) is also present.

Woodland Area 7

This woodland area is consists of a single species stand of black locust located at the southeastern corner of the site between Emerson Avenue and the East River. There are 15 trees with a dbh greater than 6 inches and numerous individuals of smaller caliper within this woodland.

Woodland Area 8

This area consists of several distinct patches of woodland located in the western portion of the site, near the Bronx-Whitestone Bridge and U.S. Route I-678. The westernmost portion of the woodland has the greatest species diversity and includes black locust, red mulberry, American elm (*Ulmus americana*), cottonwood, basswood (*Tilia americana*), box elder (*Acer negundo*), tree-of-heaven, and hackberry (*Celtis occidentalis*). Most of the trees are growing on mounds of fill. Tree-of-heaven and cottonwood dominate the remainder of Woodland Area 8. A total of 105 trees with a dbh in excess of 6 inches occur in this woodland.

Woodland Area 9

This woodland is a monospecific stand of black locust surrounded by urban meadow and located northeast of Woodland Area 8. It has 22 trees with a dbh greater than 6 inches.

Woodland Area 10

Woodland Area 10 is located to the west of the intersection of Miles Avenue and Emerson Avenue, to the west of Woodland Area 5. The woodland is a single species stand of black locust of varying age. It has 27 individuals with a dbh greater than 6 inches.

Woodland Area 11

This woodland borders the drainage ditch adjacent to Miles Avenue. It is relatively dense in the eastern portion of the area, while the trees in the western portion of the area are more widely spaced. Cottonwood and black willow (*Salix nigra*) are the dominant species. There are 33 individuals with a dbh greater than 6 inches.

In addition to the trees included in the above areas, there are approximately 30 additional trees in either small groups or as individuals scattered throughout the site and numerous smaller diameter trees. Fewer than 30 trees on the site have a dbh of 20 inches or greater. Because many of these trees consisted of multiple trunks, the total diameter is not a good indication of maturity.

5.1.6 *Wetlands*

The following sections describe the two wetland categories identified at the Ferry Point Park Site, Intertidal Flat, and Emergent Wetlands.

Estuarine Intertidal Flat

This community type is assigned to the portion of the site subjected to the ebb and flow of the East River. The upper limit of this community is approximately the mean high tide line. This estuarine intertidal community is devoid of vascular plants, except for a very small patch of smooth cordgrass (*Spartina alterniflora*) proximate to the southern tip of Ferry Point. Brown algae (*Fucus* sp.) was observed covering the rocks along the entire shoreline of the site.

Emergent Wetlands

The limit of all areas determined to be regulated, or possibly regulated, by either COE or DEC were identified and the limits of each area marked in the field and subsequently surveyed. The limit of COE jurisdiction along the East River is the limit of the mean high water line. DEC freshwater wetlands maps do not indicate the presence of any freshwater wetlands on the site. Figure 5.1 indicates the proposed wetland boundaries.

The on-site freshwater wetlands are limited to three small isolated areas located in the northwestern corner of the site, that total approximately 11,815 square feet (0.27 acres). This portion of the site will be cleared, filled, and graded as part of the proposed project. The three wetland areas are palustrine emergent wetlands (PEM), according to the classification system in Cowardin et al. (1979). Near- monospecific stands of common reed, with some purple loosestrife, cover all three wetland areas. The hydrology of each of these wetland areas appears to be subject to flooding for long periods in the winter and spring, and periodic inundation throughout the remainder of the year. The soils in each wetland consist of fill material.

The drainage ditch adjacent to Miles Avenue was included in the delineation since it possesses many attributes typically associated with wetlands such as

hydrophytic vegetation and water. This area will probably not, however, fall under COE jurisdiction since COE does not typically regulate manmade ditches. A jurisdictional determination will be requested from the COE with regard to all of the delineated areas present on the site.

5.2 *Terrestrial Wildlife*

Appendix E2 lists the wildlife observed, or likely to occur, on the project site and the habitat types where they were found. Excluding the open water habitat of the river, there are seven distinct habitat types present on the site that correspond to the plant community/land use categories—two types of urban meadow, developed land, recreational land, urban woodland, emergent wetland, and estuarine intertidal flat. The two types of urban meadow provide the most extensive habitat types on the site. The habitats on the site reflect a history of disturbance typical of made land, or highly disturbed land, in an urban setting. As discussed in Section 5.1, monospecific stands of ruderal species such as common reed or mugwort dominate extensive portions of the site. Although most of the habitats identified on the site do not possess the habitat quality characteristics of a more pristine system, the site nevertheless supports a variety of wildlife species. The presence of a tidally influenced body of water, such as the East River, substantially increases the site's species richness potential.

Due to the uniformity of the plant communities covering extensive portions of the site, particularly the common reed dominated portion of the urban meadow community, and frequent intrusions by human activities, most of the wildlife species inhabiting the site tend to be habitat generalists. Species considered to be habitat generalists can adapt to varying environmental conditions and are relatively tolerant of human activity. Avian species commonly found in such urban meadows in the New York Metropolitan area include: mourning dove (*Zenaidea màcroura*), starling (*Sturnus vulgaris*), common crow (*Corvus brachyrhnches*), common grackle (*Quisculus quiscula*), rock dove (*Columba livia*), brown-headed cowbird (*Molotherus ater*), killdeer (*Charadrius vociferus*), song sparrow (*Melospiza melodia*), and American goldfinch (*Carduelis tristis*). During the site visits, ring-necked pheasant were observed throughout the urban meadowland communities. In the winter, these areas of the site may also be utilized by field sparrow (*Spizella pusilla*), tree sparrow (*Spizella arborea*) and dark-eyed junco (*Junco hyemalis*). Other winter visitors that could be reasonably expected to use this portion of the site are Canada goose (*Branta canadensis*) and northern harrier (*Circus cyaneus*). Mammals expected to inhabit the urban meadows include eastern cottontail (*Sylvilagus floridanus*) and various species of rodents.

Developed land and recreational land areas tend to be relatively unattractive to most wildlife species due to the frequent human activity and lack of cover. Therefore, they would support relatively small populations of wildlife. Most

of the species anticipated to use the developed portions of the site are habitat generalists or inquiline species (species that reside in the houses of others) that can adapt to a broad range of environmental conditions, and are tolerant of human activities. Inquiline species are typically found in direct association with man. Avian species that are typically found in habitats such as those found in the developed land, and, to a greater extent, in the recreational portions of the site, include: house sparrow (*Passer domesticus*), mourning dove (*Zenaida macroura*), starling (*Sturnus vulgaris*), rock dove (*Columba livia*), common crow (*Corvus brachyrhynchos*) and brown-headed cowbird (*Molothrus ater*). Mammals expected to utilize these areas include eastern cottontail, gray squirrel (*Sciurus carolinesis*), and various other species of rodents.

Urban woodland areas provide the greatest structural diversity on the site, and should also provide habitat for the greatest number of species. However, due to the relatively small size, young age, and urban setting of the woodlands, wildlife species richness is not anticipated to be high. Most of the woodlands appear to be relatively young transitional communities that possess features of a woodland, but retain other features more typical of fields. Most of the woodlands consist of patches of young trees and shrubs, surrounded by herbaceous vegetation. In addition, the relatively small area and narrowness of the woodlands on the site, would tend to exclude area and habitat specific species, particularly neo-tropical migrant birds that require interior forest habitats. The on-site woodlands provide suitable habitat for a variety of less sensitive generalist species of birds including mockingbird, common yellowthroat (*Geothlypis trichus*), bluejay (*Cyanocitta cristata*), yellow warbler (*Dendroica petechia*), catbird (*Dumetella corolinensis*), mourning dove, and song sparrow (*Melospiza melodia*). Taller trees overlooking the urban meadows also provide perches for raptors such as American kestrel (*Falco sparverius*). Mammals such as gray squirrel and eastern cottontail are typically found in similar woodlands; both were observed in this area during the site investigation.

As previously stated, the overall species richness of wildlife on the site is enhanced due to the presence of the East River and the intertidal habitat. The open water and estuarine intertidal flat habitat of the East River provide the habitat elements needed to support a species rich wildlife community. The estuarine intertidal flat provides suitable foraging habitat for a variety of birds including wading birds, gulls and waterfowl. Birds expected to be commonly encountered during the appropriate season include: Canada goose (*Branta canadensis*), great black backed gull (*Larus marinus*), herring gull (*Larus argentus*), ringed bill gull (*Larus delawarensis*), great blue heron (*Ardea herodias*), black crowned night heron (*Nycticorax nycticorax*), snowy egret (*Egretta thula*) and great egret (*Casmeroides albus*). Mammals that may utilize this area include: raccoon (*Procyon lotor*), Norway rat (*Rattus*

norvegicus), feral dogs and feral cats. The estuarine intertidal flat area may also be used by migratory shorebirds.

The open water of the East River provides suitable foraging and loafing habitat for a variety of waterfowl. The shallow water of the cove on the east side of Ferry Point would likely be used by migratory and overwintering waterfowl such as gadwall (*Anas strepera*), ring-necked duck (*Aythya collaris*), greater scaup (*Aythya marila*), and brant (*Branta bernicula*). Due to frequent human activity along the shoreline, nesting is anticipated to be limited. However, the presence of a mallard with young observed feeding along the shoreline in June of 1999 suggests that some nesting may be occurring near the site. Other birds expected to use the open water of the East River include double crested cormorant (*Phalacrocorax auritus*).

The freshwater emergent wetlands on the site are not extensive and are dominated by common reed. Because of the dominance of common reed, small size of the three wetlands, and isolation, the mammals and birds utilizing these wetlands are not anticipated to be substantially different than those found in the adjacent uplands. Due to the near absence of freshwater on the site, the presence of amphibians is likely to be limited to more terrestrial species such as Fowler's toad (*Bufo woodhousii*). Although, suitable habitat exists for this species, none were observed during the site investigation.

5.3 *Aquatic Resources*

The following sections provide an overview of the water quality, habitats, and biota found in the East River within the vicinity of the site. This information was derived from the existing literature.

5.3.1 *Setting*

The East River is essentially a tidal strait connecting New York Harbor with the western end of Long Island Sound. Its circulation and salinity structure is thus largely determined by conditions in the Harbor and Sound, and its fish, benthic and plankton communities are strongly influenced by the composition and abundance of these communities in adjacent waterbodies.

From a geomorphic perspective, it is convenient to divide the East River, which extends for a distance of 25.5 km (15.8 miles) from the Battery to Willets Point (just east of the Throgs Neck Bridge), into upper and lower sections. The demarcation between the upper and lower river is at Hell Gate, about 12.5 km (7.8 miles) above the Battery. The upper East River, where the Ferry Point Park site is located, is shallower and wider than the lower East River (Table 5.1). Bottom substrates in the lower section are characteristically hard and rocky while those in the upper East River are somewhat softer and smoother. While some limited cove habitat still exists in the upper East River, the shoreline in the lower East River is virtually entirely bulkheaded or riprapped. Current velocities are rapid in the East River—maximum velocities

in the lower river reach 5 knots. Current speeds in the upper river are not as great since it is wider, and more of the tidal prism of the East River is exchanged with the Harbor than with the Sound (Jay and Bowman 1975).

Table 5.1 ***Dimensions of lower and upper sections of the East River.***

Section of River	Surface Area (square kilometers)	Mean Depth Below MLW (meters)	Volume Below MLW (cubic meters)
Lower East River	10.37	10.95	113.f X 10^6
Upper East River	22.15	7.20	159.0 X 10^6

Source: Jay and Bowman 1975.

The mean tidal range is considerable—approximately 1.3 meters at the Battery and increasing to 2.2 meters at Willets Point. The phase of the tide at Willets Point lags the Battery by about 3 hours. This phase difference (and the difference in resulting water elevations between the Battery and Willets Point) is chiefly responsible for the rapid tidal currents in this waterbody. Tidal excursion distances vary between 16 and 21 kilometers (9.9 to 13 miles) in the upper East River. A shipping channel in excess of 11 meters (36 feet) in depth is maintained along the entire length of the East River (Hazan and Sawyer 1983).

5.3.2 *Water Quality*

The primary inflow of freshwater to the East River is from the Hudson River, occurring at the Battery and the Harlem River. Other sources of freshwater are the sewage treatment plants that discharge effluent into the River. The fact that the East River is clearly polyhaline (18-30 parts per thousand (ppt)) suggests that the influence of saltwater intrusion originating from the ocean is considerable. The overall mean salinity at Willets Point is 25.2 ppt, compared to a mean salinity of 21.4 ppt at the Battery. In the upper East River, the estuarine circulation leads to a net transport of freshwater towards Long Island Sound and saltwater towards the Harbor. Vertical salinity stratification is almost non-existent in the lower East River, and is slightly greater in the upper region. In the vicinity of Willets Point, the difference between top-to-bottom salinity was estimated to range between 0.5 and 1.0 ppt (Hazen and Sawyer 1983).

The New York City Department of Environmental Protection (DEP) collects water quality monitoring data from 12 sites in the upper East River and Western Long Island Sound. These data suggest an increasing trend in dissolved oxygen (DO) in the water column between 1970 and 1998, in both surface and bottom waters (DEP 1999). DEC classifies the water use for the portion from Hell Gate to the Bronx-Whitestone Bridge as Class I—considered acceptable for secondary contact and recreation (e.g., fishing

and boating). These waters are required to maintain a DO concentration at or above 4.0 milligrams per liter (mg/L), and a monthly geometric mean of fecal coliforms less than or equal to 2000 cells/100 milliliters (mL). East of the Bronx-Whitestone Bridge, DEC classifies the water use as Class SB—considered acceptable for swimming and recreation. These waters are required to maintain a DO concentration of 5 mg/L, and a monthly geometric mean of fecal coliforms less than or equal to 200 cells/100 mL.

Dissolved oxygen is indicative of overall water quality in aquatic systems, and areas with extremely low DO are often avoided by finfish. Breakdown of algae and other organic compounds from various sources can deplete DO. Exposure to short periods of DO below 4.0 mg/L is generally not as stressful to organisms as prolonged exposure—periodic exposure to low DO occurs naturally, and estuarine organisms, in most cases, have adapted to these short periods of stress. DO concentrations in the East River follow a seasonal pattern: lowest during the summer, and highest during the late winter/early spring months when water temperature is coolest.

Although the trend in DO has greatly improved over time, and average summer DO values exceed the 4 mg/L standard for fishing, individual readings often fall below 4 mg/L during summer months at certain upper East River/Western Long Island Sound locations. Summer DO values that failed to comply with the DO standards appeared to be more prevalent in the area east of the Throgs Neck Bridge. A 1998 study conducted by the Interstate Sanitation Commission (ISC 1999) indicated that at a station just east of the Whitestone Bridge, the average summer surface DO was 4.5 mg/L, with the average bottom DO being slightly higher.

Harborwide, coliform bacteria concentrations have declined from 1989 to the present. Within the upper East River, this downward trend has measured over an order of magnitude over the past twenty years (DEP 1999). Fecal coliform concentrations in this region met standards suitable for bathing 90 percent of the time over the past decade. A trend analysis conducted on all New York Harbor stations, monitored in the summer, indicated widespread reductions in coliform concentrations between 1968 and 1993. Four stations sampled in the upper East River showed a significant downward trend in coliform concentration over time, and all were shown to be currently within compliance with their intended use classification. The declines in coliform concentrations from 1968 to 1988 are thought to be primarily in response to plant construction and upgrades; continued declines after 1989 are attributed to other New York City pollution control and abatement programs (Brosnan and O'Shea 1996).

Other water quality parameters such as nutrients (e.g., phosphorus, nitrogen) are routinely monitored as part of the New York Harbor Water Quality Survey. Nutrients are present in the East River year-round. However they are most important to aquatic plant growth during the spring/fall growing season.

(See Brosnan and O'Shea [1995] for nutrient data and trend analysis for certain months in the Harbor.)

There is concern over recent increases in chlorophyll *a* levels (indicative of eutrophic or nutrient enriched waters) that have been observed in the upper East River/ Western Long Island Sound study area (DEP 1999). However, the highest concentrations of chlorophyll have been observed in Western Long Island Sound, not the upper East River. Furthermore, in 1997 and 1998, mean summer chlorophyll levels in this region dropped to below 20 micrograms per liter (µg/L), marking only the second time since 1991 that levels dropped below 20 µg/L for two consecutive years. Steps currently being taken to reduce nitrogen discharges to the East River, as part of the Long Island Sound Study, are expected to reduce enrichment to these waters (DEP 1999).

5.3.3 *Characterization of Aquatic Biota*

The East River's hydrodynamics and estuarine character, coupled with the numerous municipal and industrial discharges that have operated there for many years, makes it a physically harsh environment—therefore, many of the species using the area are tolerant of highly variable conditions. The upper East River is used as a passageway for several anadromous and estuarine fishes, and as a temporary residence (seasonal) for a variety of marine species involved in more general coastal or shoreward movements. The following sections provide a brief description of the aquatic biota.

Phytoplankton

Phytoplankton are microscopic plants whose movements within the system are largely governed by prevailing tides and currents. Several species can obtain larger sizes as chains or in colonial forms. Light penetration, turbidity and nutrient concentrations are important factors in determining phytoplankton productivity and biomass. While nutrient concentrations in most areas of New York Harbor are very high, low light penetration has often precluded the occurrence of phytoplankton blooms.

Investigators have collected 77 phytoplankton genera, several of which were represented by a number of different species, from the East River. Diatoms are generally the most widely represented class of phytoplankton, accounting for over 90 percent of the different taxa collected in one survey (Hazen and Sawyer 1983). The green algae, *Nannochloris,* was, however, the most abundant single taxa. Brosnan and O'Shea (1995) identified 29 taxa of phytoplankton in a 1993 survey of New York Harbor. They noted that the diatom *Skeletonema costatum* and the green algae *Nannochlorus atomus* were the most abundant species at the monitored sites. The average summer cell counts in that year ranged from 6,300 to 97,000 cells/mL. Investigators have suggested that the overall composition and relative abundance of phytoplankton taxa is more heavily influenced by the influx from waters of the

Sound and New York Harbor, than by localized water quality conditions (Con Edison 1982).

Macrophytes

Macrophytes are plants that include submerged aquatic vegetation (SAV) and benthic algae. SAVs are rooted aquatic plants that are often found in shallow areas of estuaries—they are important for the nursery and refuge habitat they provide for fish. Benthic algae can be large multicellular algae that are important primary producers in the aquatic environment. They are often seen on rocks, jetties, pilings, and sandy or muddy bottoms. Since these organisms require sunlight as their primary energy, the limited light penetration of New York Harbor limits their distribution to shallow areas. Light penetration, turbidity and nutrient concentrations are all-important factors in determining SAV and benthic algae productivity and biomass.

None of the studies of the East River reviewed as part of this assessment reported the presence of SAVs in the lower East River. The extensively developed shoreline, swift currents and steeply sloped riverbanks make inhabitation by macrophytes unlikely. However, in the upper East River, there are a number of areas suitable for macrophyte habitat. One study reported common species including *Fucus*, *Ulva*, and *Enteromorpha* (Perlmutter 1971). On a recent site visit, *Fucus* was observed growing along the Ferry Point Park shoreline.

Zooplankton

Zooplankton are an integral component of aquatic food webs—they are primary grazers on phytoplankton and detrital material, and are themselves used by organisms of higher trophic levels as food. The higher level consumers of zooplankton typically include forage fish, such as bay anchovy, and early life stages of commercially and recreationally important species, such as striped bass and white perch. Predacious zooplankton species consume eggs and larvae, and can have a detrimental effect on striped bass and white perch.

Zooplankton studies conducted in New York Harbor and the East River found crustacean taxa to be the most prevalent in collected samples. The most dominant species include the copepods *Acatia tonsa, Acartia hudsonica, Eurytemora affinis*, and *Temora longicornis*, with each species being prevalent in certain seasons (Stepien et al. 1981, Londale and Cosper 1994, Perlmutter 1971, Lauer 1971, Hazen and Sawyer 1983). The data suggest that the copepods collected in the East River may be extensions of populations established in Long Island Sound and New York Harbor.

The macrozooplankton *Neomysis americana* (mysid shrimp) is also likely to occur in the vicinity of the site. Mysid shrimp have been found year round in the East River (Con Edison 1982, Malcolm Pirnie, Inc. 1982). Decapod larvae, including blue crab (*Callinectes sapidus*), and the crab *Ovalipes ocellatus,*

have been found in the East River (Con Edison 1982) and are likely to occur in the vicinity of the site.

Benthic Invertebrates

Invertebrate organisms that inhabit the river bottom sediments, and surfaces of submerged objects, such as rocks, pilings, or debris are commonly referred to as benthic invertebrates. These organisms are important to the energy flow of the ecosystem. They use detrital and suspended organic material as food sources, and in turn, are integral components of the diets of ecologically and commercially important fish and waterfowl species. Benthic invertebrates are also essential in promoting the exchange of nutrients between the sediment and water column.

A number of studies of the distribution and abundance of benthic invertebrates have been conducted in New York Harbor and the East River. A compilation of these studies (Coastal Environmental Services 1987) indicated that over 100 taxa had been identified for the East River, most of which were either crustaceans or polychaete worms. A more recent literature review identified over 180 benthic taxa in the Hudson River, East River, and upper New York Harbor (PBS&J 1998).

Hazen and Sawyer (1983) identified two separate but intermingled benthic invertebrate subcommunities based on sediment hardness in the East River. The hard substrate community was characterized by organisms that were either firmly attached to rocks and other hard objects (e.g., mussels or barnacles) or those that built or lived in tubes (e.g., the polychaete *Sabellaria vulgaris*). Other species of polychaetes and amphipods also occur on the hard bottom surfaces. Several species (e.g., the amphipod *Unicola*, the polychaete *Nereis*, and a few nematode species) have become adapted to the hard bottoms and rapid currents by living within the abandoned tubes of other species (Hazen and Sawyer 1985). The soft substrate community is characteristic of the more protected areas within the upper East River, where detritus, clay, silt and sand has been allowed to accumulate. Common soft substrate organisms observed include oligochaete worms, the soft shelled clam *Mya arenaria*, and a variety of flatworms, nemerteans, polychaetes and crustaceans. A recent field visit indicated hard clam, mussel, and horseshoe crab populations in the site vicinity.

None of the invertebrate populations in the East River are of commercial or recreational value. In accordance with Title 6, Part 41, Section 41.1 of the Codes, Rules and Regulations of the State of New York, commercial and recreational shellfishing (clams, oysters, mussels and scallops) is prohibited in the East River because of public health concerns. Although recreational crabbing is permitted, it is not extensively pursued.

Fish

The East River supports a large and diverse fish community consisting of marine, estuarine, anadromous, and catadromous species. Most species collected are either marine or anadromous. Although the East River supports only a few resident estuarine populations, many more species inhabit the area, for several weeks or months as part of seaward or coastal movements. A literature study identified 64 fish species collected in the East River and adjacent Little Neck Bay (Coastal Environmental Services 1987). A more recent literature compilation identified 70 species from lower Hudson and East Rivers, and upper New York Bay (PBS&J 1998). Appendix E3 presents a list of these fish species.

The marine species that would most likely occur in the study area include: winter flounder (*Pseudopleuronectes americanus*), bay anchovy (*Anchoa mitchilli*), weakfish (*Cynoscion regalis*), cunner (*Tautogolabrus adspersus*), Atlantic silverside (*Menidia menidia*), Atlantic menhaden (*Brevoortia tyrannus*), black sea bass (*Centropristis striata*), and spotted hake (*Urophycis regius*). The common estuarine species inhabiting the study region include mummichog (*Fundulus heteroclitus*), hogchoker (*Trinectes maculatus*) and white perch (*Morone americana*). These species migrate within the estuary and would occur in the East River during certain seasons. The mummichog and Atlantic silverside have been reported to occur in the study area in relatively large numbers. The ability of these two species to establish populations in the East River has been partially attributed to their ability to withstand low dissolved oxygen levels (Con Edison 1982).

Atlantic tomcod (*Microgadus tomcod*), striped bass (*Morone saxatilis*), alewife (*Alosa pseudoharengus*), and American shad (*Alosa sapidissima*) are the most common anadromous fish occurring in the region. These fish may be found in the upper East River on their way to the upstream Hudson River freshwater spawning grounds. They may also use the upper East River during fall and winter months as they migrate to sea via Long Island Sound. The collection of these species in the East River and areas such as Lawrence Point and Little Neck Bay supports this conclusion. On a recent site visit, a fisherman was observed with a striped bass collected from the Ferry Point shoreline. American eel (*Anguilla rostrata*) is the only catadromous (i.e. spawns in the ocean, migrates to freshwater) species to occur in the study area.

Although most of the species that reside in the study region do not spawn there, some spawning and larval development probably does occur in the upper East River. Data suggest that eggs reported in water column collections are those of bay anchovy, which has a wide geographic spawning range in marine and estuarine waters in warmer months. Clupeid larvae and winter flounder larvae have been recorded at the Astoria East River Power Plant and at New York Harbor stations. Eggs of some of the most abundant populations (e.g., mummichog, silverside, and winter flounder) are demersal and/or

adhesive and would not be expected to be well represented in water column collections.

Commercial fishing in the East River is restricted. Recreational fishing does occur, with the primary species of interest being striped bass, bluefish (*Pomatomus saltatrix*), scup (*Stenotomus chrysops*), spot (*Leiostomus xanthurus*), and American eel.

The New York State Department of Health (DOH) has issued a general health advisory that people eat no more than ½-pound of fish per week from the State's freshwaters, and some marine waters at the mouth of the Hudson River, which includes the East River to the Throgs Neck Bridge. The general advisory is to protect against eating large amounts of fish that have not been tested, or that may contain unidentified contaminants. DOH recommends that infants, children under age 15, and women of childbearing age, not consume fish from these areas. For the East River, DOH has issued advisories for Atlantic needlefish, bluefish, striped bass, and white perch because of potential PCB contamination. DOH recommends that no American eel be consumed because of potential PCB contamination (DOH 1998).

5.4 *Significant Habitat and Threatened or Endangered Species*

5.4.1 *Terrestrial Species*

The New York State Natural Heritage Program (NHP) maintains a database of rare plants and animals native to New York, as well as a listing of significant ecological communities within the state. DEC, Division of Fish, Wildlife and Marine Resources, Wildlife Resources Center, maintains the Natural Heritage Program files. A request for information on threatened or endangered species, other species of special concern, as well as special habitat areas in and within the vicinity of Ferry Point Park was submitted to NHP on 20 May 1999. NHP (Appendix E4, Mackey 1999) has no record of known occurrences of rare or state-listed animals and plants, or significant natural communities for the Ferry Point Park site.

NHP identified one significant habitat area near the site, a waterfowl wintering area that extends along the shoreline from the Bronx-Whitestone Bridge east to the Westchester County/Bronx County border.

The U.S. Department of the Interior, Fish and Wildlife Service (USFWS) is responsible for the management of federally listed, or proposed, rare, threatened or endangered species. A request for information on these species within the vicinity of the study area was submitted to the USFWS on 20 May 1999. The USFWS (Stilwell 1999, Appendix E4), reported that the peregrine falcon (*Falco peregrinus*), a formerly federally-listed, and State-listed endangered species, is known to breed in the vicinity of the proposed project. The USFWS delisted the peregrine falcon on 25 August 1999. According to

Barbara Loucks (1999), peregrine falcons are nesting at a distance greater than 1.5 miles from the eastern border of the site. The USFWS has requested that:

- the environmental documents associated with this project evaluate potential direct, indirect, and cumulative effects on the peregrine falcon or its habitat, and include appropriate measures, to protect this species and its habitat; and
- Final project plans and environmental documents be submitted to the Cortland, NY, USFWS office to determine the need for further consultation pursuant to Section 7 of the Endangered Species Act of 1973 (87 Stat. 884, as amended; 16 USC 1531 et seq.).

Except for the peregrine falcon, and occasional transient individuals, no other federally listed or proposed endangered or threatened species under USFWS jurisdiction are known to exist in the project impact area.

No peregrine falcons were observed during any of the site visits. One State-listed threatened species, a juvenile northern harrier (*Circus cyaneus*), was observed on the site during one of the site visits. Section 7.0 of this attachment discusses potential impacts to both of these species from the proposed project.

5.4.2 *Aquatic Species*

The federally and State-listed endangered shortnose sturgeon (*Acipenser brevirostrum*) is the only threatened or endangered fish species with the potential to occur in the vicinity of the Ferry Point Park site. On the basis of the information presented in Meylan and Sadove (1986), Gerle and Sadove (1996) and Morreale, et. al. (1992), four State-listed turtle species have the potential to occur in the vicinity of the site. These include the endangered leatherback sea turtle (*Dermochelys coriacea*), the endangered Kemp's ridley sea turtle (*Lepidochelys kempii*), the threatened loggerhead sea turtle (*Caretta caretta*), and the threatened green sea turtle (*Chelonia mydas*). Section 7.0 of this Attachment discusses potential impacts to these species from the proposed project.

6.0 *FUTURE CONDITIONS WITHOUT THE PROPOSED PROJECT*

Without the proposed project, the Ferry Point Park site will remain in its current condition. The existing terrestrial resources will generally remain unchanged, although there may be some changes in vegetation distribution due to natural succession. The area will probably continue to be used as a dumping ground for rubbish and debris, and as temporary shelter by the homeless. Should New York City conduct road improvement activities on Miles Avenue (along Woodland Area 11) adjacent to the eastern portion of the site, the amount of surface runoff draining to the ditch between the site and the road may be affected along with the vegetation lining the ditch. Road improvement

activities may also result in the loss of some of the vegetation on this part of the site. Widening of the road would probably necessitate piping of the ditched area, as part of the stormwater management plan.

With respect to aquatic resources, most current activities associated with the aquatic environment of the upper East River would be expected to continue unchanged from the existing conditions should Ferry Point Park not be developed as proposed. Non-point source runoff discharging to the river is not expected to differ substantially from the present in terms of quality and quantity. As there would be no large-scale actions proposed for the immediate area, water quality and the integrity of the biotic communities should remain intact.

Water quality in New York Harbor, including the upper East River, has been improving in recent years as evidenced by a decline in coliform bacteria, increases in DO concentrations, and decreases in floatable pollutants. Improvements in water quality have been attributed to a number of water pollution control actions, including the construction and upgrading of Water Pollution Control Plants (WPCPs), increased maintenance of sewage systems, increased capture and treatment of Combined Sewer Overflows (CSOs), and abatement of illegal discharges. The continuation of the City's water pollution control programs (e.g., the CSO Abatement, Floatables, Shoreline Survey, and Industrial Pretreatment Programs) should result in continued maintenance or improvement in overall water quality in the East River.

DEP will continue the Shoreline Survey Program, a physical shoreline inspection program, to identify damaged or improperly operating outfall locations as well as previously unknown or unidentified outfalls. Since 1989, this program has helped eliminate 1.5 million gallons per day of illegal discharges and has assisted in improving water quality in New York Harbor, including the upper East River.

The City's CSO Abatement Program will continue in the future. This program includes planning and implementing continued upgrades to WPCPs to provide the needed treatment capacity for increased capture of CSO effluent during storm events, thereby reducing the discharge of CSOs directly to the receiving waters. As part of the CSO Abatement Program, the City has implemented a Floatables Program to improve the capture of floatables and reduce their occurrence. It has been estimated that 95 percent of floatables (debris that floats on or below the water surface) originates from CSOs and storm sewers that convey street litter (DEP).

Floatables contribute to navigational interference, beach closings, and wildlife entanglement. A number of stationary booms, skimmers, and skimming vessels are in use and have noticeably improved the capture of floatables. Additionally, pilot studies are under way that include evaluation of swirl concentrators and pipe netting, as well as a successful pilot program that uses a capture tank and multi-net containment system to capture and remove floatables. Without the proposed project, it is expected that the future

upgrades and continuation of the various abatement programs will contribute to the overall improvement in water quality.

The municipal sewer and stormwater permitting program, administered by the New York City Industrial Pretreatment Program (IPP), will continue in the future. The program consists of intense screening of industrial discharges, monitoring and enforcement programs, and amendment of sewer use regulations. The overall intent is to monitor and control any additional flows or increased volumes to the WPCPs and CSOs, and to limit any factors that could potentially degrade water quality or the efficiency of the WPCPs. The program focus has been primarily on metals contamination and has resulted in an order of magnitude reduction in total metals contributions to wastewater between 1974 and 1995. The sewerage and stormwater permitting programs will continue to require industry and businesses to treat liquid wastes before they are discharged to the sewer systems, and will continue to be expanded in the future to include more industrial sources. Future efforts will target organic priority pollutants in wastewater discharges. As such, it can be expected that overall water quality will continue to improve in the future without the proposed project.

Aquatic communities including phytoplankton, benthic algae, zooplankton, benthic invertebrates and fish will continue to use the East River habitats much as they have in the past, and as they do now. The improvement in water quality observed in recent years should help maintain the stability of East River aquatic resources.

7.0 FUTURE CONDITIONS WITH THE PROPOSED PROJECT

7.1 Potential Effects on Natural Resources

This section describes potential changes to the existing natural resources based on the final site development plan, the turf management plan, and the plans for the waterfront and community parks.

7.1.1 Vegetation Communities

As with many development projects, much of the existing vegetation will be removed for the proposed public recreational facility. Because of the site's past use as a landfill, and its continued history of anthropogenic disturbance, no pristine native plant communities exist on the site—most of the site is dominated by invasive ruderal species that are typical of disturbed habitats. The area designated as the Urban Meadow 1 (mixed grass) community contains an unusual plant community for an urban setting, because it consists of grasses typically found in pastures. However, even this area is dominated by species that are not native to this region.

Although not pristine, the value of the ruderal communities found at Ferry Point must be assessed from an urban landscape perspective. These areas

provide a "green island" in an otherwise highly developed environment. Development of the site will require the removal of nearly all of the existing ruderal plant communities—they will be replaced with new plant communities that are typical of the more manicured landscapes of a golf course and urban park. Some of these new plant communities include a maritime grassland in the waterfront park along the East River, a 2.2-acre grassland habitat for an area along Schley Avenue, native grasses and trees associated with the golf course, and native and ornamental grasses and trees associated with the recreational area at the northeast corner of the site. In general, the concept is to create a naturally landscaped environment that is readily accessible to the general public. It is anticipated that grasses such as little blue stem (*Schizachyrium scoparium*), switch grass (*Panicum virgatum*) and Indian grass (*Sorgastrum nutans*) will be used in the grassland habitats.

Construction of the golf course, waterfront park, community park, and other structures included in the proposed action will, of necessity, require the removal of much of the existing vegetation in these areas, including approximately 350-400 trees with a dbh greater than 6 inches and numerous smaller diameter trees. Some of the woodlands along the periphery of the site, specifically Woodland Areas 2, 6, and possibly part of 11 will remain and be incorporated into the site design as buffer areas. Because these two woodlands contain large amounts of assorted debris and rubbish, they may be temporarily impacted during the removal of this material. Care will be taken to minimize damage to trees and other vegetation during removal of the debris and rubbish, and any ruts or other disturbance of the ground surface will be repaired. Other peripheral woodland areas will also be incorporated into the site design whenever feasible.

As part of the proposed action, a tree replacement program will be developed, in coordination with the licensee, to enhance existing woodlands communities on the site. At maturity, the new trees planted as part of the tree replacement program, and other vegetation planted as part of the proposed landscaping plan, will provide a greater diversity of plant communities than the ruderal plant communities currently existing on the site. Table 7.1 lists the vegetation proposed for the Ferry Point project as part of the landscaping plan.

The objective of this program is to first minimize the number of trees removed as a result of project development, and then to plant new trees selected with the goal of establishing a healthier and more diverse woodlands habitat. In planting of new trees, priority will be given to replacing trees onsite, followed by planting trees on the western portion of Ferry Point Park. With the planting of new trees, the tree planting program will ultimately result in higher quality vegetation communities and habitats than currently exist on the site.

7.1.2 Wetland

Based on the current development plans proposed for the site, the three small, isolated wetland areas of low diversity will be filled. The total acreage of these

wetlands is 0.27 acres. The filling of these wetlands will be performed in accordance with Nationwide Permit No. 26 per a letter of authorization from COE. This permit allows for the filling of up to 0.33 acres of headwater or isolated wetlands.

7.1.3 *Terrestrial Biota*

As described in Section 5.2, excluding the open water habitat provided by the river, seven distinct habitat types were identified on site—two types of urban meadow, developed land, recreational land, urban woodland, emergent wetland, and estuarine intertidal flat. The urban meadow communities covered most of the site. Due to the disturbed nature of the site, the urban landscape in which the site is located, and the frequent intrusions of human activity, most of the species observed, or which may occur at the site, are habitat generalists or inquiline species. These species have adapted to a broad range of environmental conditions, and are tolerant of frequent human activities. None of these species represent a unique population that cannot be found elsewhere in the surrounding region.

As with many development projects, the removal of vegetation required for this project will result in an unavoidable loss of wildlife habitat. The development will result in the loss of nesting, den, loafing and feeding sites for various wildlife species. However, the wildlife using the portions of the site proposed for development tend to be common in the geographic region. These generalist species are broadly tolerant of changing environmental conditions and no long-term adverse impacts on these species (starling, mourning dove, house sparrow, and red-winged blackbird) are anticipated. The impact on the populations of many of the common generalist bird species that may inhabit the woodland areas such as mourning dove, blue jay and mockingbird, are anticipated to be short-term and transient, since some may relocate nearby in comparable areas (e.g., Soundview Park or Pugsley Creek Park), and since suitable replacement habitat for these species will become available as project landscaping matures. While many of the ring-necked pheasants will be affected by the construction of the proposed project, some that remain in the undisturbed areas of the site should be able to recolonize the altered portions of the site, where habitat is suitable. The maritime grassland proposed for the waterfront park and the grassland area to be constructed along Schley Avenue will provide suitable habitat for some of these displaced birds.

The American kestrel should continue to utilize the park for feeding or loafing. American kestrels use a variety of open to semi-open habitats such as farmland and urban habitats for nesting and foraging. Because kestrels nest in tree cavities and old woodpecker holes or cavities in banks and cliffs, as well as abandoned nests and nest boxes (Scott et al. 1977, Cade 1982, in Cooperrider et al. 1986), a nest box program for this species will be incorporated into

the final site plan to provide suitable nesting sites while the planted trees mature.

Smaller mammals will also be subjected to some degree of displacement as a result of habitat loss in the grassland areas, but are expected to repopulate the replanted areas.

While efforts will be made to preserve woodlands along the perimeter of the site, the proposed development will necessitate the removal of many, if not most, of the areas designated as woodland. Although most of the woodlands removed are relatively small and dominated by immature trees, these areas do possess some of the structural attributes needed to attract wildlife species. The loss of successional woodland will result in temporary losses to wildlife habitat. However, due to the relatively small size and fragmented nature of the woodlands, and the site's urban character, the wildlife inhabiting these areas are anticipated to be very common in the region. As previously stated, portions of these woodlands along the periphery of the site will be preserved as buffers. To compensate for the loss of trees, woody plants will be installed throughout the comprehensive golf facility, the waterfront park, and the community park. The establishment of woody vegetation will provide perching sites for birds. The incorporation of fruit and nut bearing trees and shrubs will also provide a source of food for mammals and birds. Therefore, it is concluded that impacts to wildlife species will be minimal, and in many cases, of a temporary nature.

As part of the redevelopment, four lakes/ponds and six vegetated dry detention basins are proposed. The creation of these water features will increase the diversity of habitat available to the wildlife of Ferry Point Park. To improve the aesthetic and wildlife elements of the proposed lakes/ponds, the vegetation around the ponds will be natural, including herbaceous, shrub and tree species, landscaped to provide occasional views of the water.

Another habitat on the site is the estuarine intertidal flat and the adjacent open waters of the East River. This area provides suitable habitat for nesting, loafing or feeding by a variety of birds. No development will occur within this riparian or tidal wetland habitats, therefore no adverse impacts are anticipated.

Potential impacts to both plants and wildlife communities could occur after site development, from indiscriminate, or excess use of harmful chemicals for golf course maintenance activities, resulting in uptake and potential bioaccumulation of these chemicals by plants and animals. The Integrated Golf Course Management Plan (IGCMP), as fully described in Attachment F and summarized in Section 7.3, incorporates measures to minimize pesticide use and avoid such impacts. The measures to reduce or avoid these risks are described in the IGCMP. This plan would eliminate any significant risks to plant and wildlife communities.

7.1.4 *Aquatic Biota*

The project should have no adverse impact to aquatic organisms inhabiting the East River. There are no project activities proposed along or in the East River that would directly affect organisms or their habitats. Activities associated with construction and maintenance of the golf course will occur away from the water, and will be separated from the East River by the public park. Pollutants in the form of suspended sediments, nutrients, pesticides, etc., that may be generated by golf course activities will be treated on-site, through a series of design BMPs, prior to any release of stormwater to the East River.

Modeling efforts (Attachment M) indicate that the stormwater management proposed for the project will ensure that stormwater discharges leaving the site will be of acceptable water quality. Furthermore, the IGCMP will ensure that the pesticides selected for use in this project will pose little risk to the aquatic biota. The rapid dispersion of these contaminants by the rather large East River current velocities will further minimize these risks.

The existing aquatic communities (phytoplankton, benthic algae, zooplankton, benthic invertebrates, and fish) will continue to use the East River habitats as they do now. As stated earlier, the water quality of the upper East River has improved significantly over the past 30 years. This improvement is a result of construction and upgrading of WPCPs, increased maintenance of sewage systems, increased capture and treatment of CSOs, and a variety of industrial pretreatment and abatement programs administered by DEP. Trends in dissolved oxygen and coliform bacteria concentrations are markedly improved. The improvement in water quality observed in recent years should help maintain the diversity and stability of the East River aquatic resources. It is therefore, extremely unlikely that project activities will have any adverse impacts on these resources.

7.1.5 *Significant Habitat and Threatened or Endangered Species*

Terrestrial Species

The peregrine falcon (State-listed endangered) and northern harrier (State-listed threatened) are the only two species of special concern known to occur on or adjacent to the project site.

The peregrine falcon is a medium-sized hawk with long pointed wings, that is one of the swiftest birds of prey. The crow-sized adults have slate blue-gray wings and backs barred with black, pale undersides, white faces with a black stripe on each cheek, and large, dark eyes. Although they live mostly along mountain ranges, river valleys and coastlines, some peregrines have accepted man-made structures such as skyscraper ledges, tall towers and bridges for breeding habitat in addition to the typical cliff ledge nesting habitat. Peregrines feed primarily on other birds—songbirds, shorebirds, and ducks, and starlings and pigeons in urban areas—striking and killing their prey in mid-air.

Although the peregrine falcon population reached an all-time low of 324 nesting pairs in North America, due to the negative impacts of DDT and its metabolites, the USFWS recovery plan resulted in an increase to 1593 nesting pairs in 1997. The peregrine falcon's recovery has been so successful that the USFWS removed it from the endangered species list on 25 August 1999.

The proposed public recreational facility will not affect the peregrine falcons located near or visiting the site. The project will not affect the current nesting site. In addition, it will not alter any aquatic habitats in the East River and therefore will not affect the presence of waterfowl, a common prey item for peregrine falcons. Once constructed, the golf course will provide sufficient habitat for the common urban species, starlings and pigeons, also consumed by the peregrine falcon. The Appendix to "Turf Management," Attachment F, describes the IGCMP's proposed measures to minimize potential impacts to the peregrine falcon's prey species, and to minimize potential toxicological impacts to this raptor.

During the wildlife survey, an immature male northern harrier (based the observation that the plumage of its underparts was distinctly darker than the white plumage of an adult bird) was observed feeding in the Urban Meadow 1 community. The northern harrier breeds and feed in grasslands and marshes. Its primary prey items include small mammals, reptiles or amphibians, and birds. The northern harrier is a common winter visitor to the New York metropolitan area. While nesting adults in the region are not common, nesting does occur on Long Island (Loucks 1999). The observation of one male juvenile northern harrier does not suggest that breeding is occurring on the site. Because the proposed Ferry Point Park project will not provide the large areas of grasslands or marshes that this species requires, the individual observed on the site may relocate elsewhere. However, since no signs of breeding were observed on the site during the four site visits, the existing northern harrier population in the vicinity of the site should not be adversely impacted.

Because the proposed project will not alter the existing waterfowl habitat adjacent to the site, the waterfowl wintering area identified by NHP will not be affected.

Aquatic Species

The project should have no adverse impacts to shortnose sturgeon. Shortnose sturgeon would not be expected to occur in the immediate vicinity of the project site—they prefer colder, deeper waters, and spawn, develop and overwinter well upriver in the Hudson. Fish that may pass through the portion of the East River near the site would be expected to use the deeper channel areas. Out of the 1000+ trawls taken in the Westway study in the Hudson and East River, only one shortnose sturgeon was collected, in the deep water habitat, near the Peekskill-Haverstraw section of the Hudson River (LMS 1983, Malcolm Pirnie 1984a and b). Long-term Hudson River monitoring

data, collected by the New York Utilities and others since the 1970's, have also indicated shortnose sturgeon inhabit deep water habitats, and occur in greatest abundance north of the Tappan Zee Bridge.

The project is also unlikely to have significant adverse impacts to any of the four listed species of turtles with the potential to occur in the vicinity of the site. Very few turtles would be expected to occur in the project area. New York turtles mostly inhabit Long Island Sound and Peconic and Southern Bays. They neither nest in the New York area, nor reside there year-round. With the exception of the leatherback, all individual turtles in New York waters are juveniles or subadults. They generally arrive in June and July and leave in October when colder temperatures force them to migrate south (Morreale and Standora 1995). Turtles that occur past November often become victims of cold stunning, which occurs on a regular basis (Meylan and Sadove 1986, Standora et al. 1989, Burke et al. 1990, Morreale, et. al. 1992).

Turtles leaving Long Island Sound for the winter usually do so by heading east to the Atlantic Ocean before turning south (Standora et al. 1990)—it is extremely unlikely that they would head west into East River, travel past Manhattan Island, and through New York Harbor on their southward migration. While it is possible that the loggerhead and even Kemp's ridley may occasionally reach the project area via New York Harbor, the leatherback and green turtle would not be expected to do so, due to the general lack of habitat for them in the East River. Given the paucity of sea turtles in the project area and vicinity, it is concluded that the Ferry Point project would have no adverse impact on these species.

The impacts to marine mammals are also not expected to be significant. These species are rarely observed from the project vicinity. Those that may occur in the area include the harbor seal, and possibly grey seal. Occasional sightings of porpoises in the Harbor are probably of individuals that are lost or unhealthy. Notable in the Summer of 1995 was the sighting of a manatee in the East River. The manatee, named Chessie by USFWS, was sighted traveling north into Long Island Sound (Brosnan and O'Shea 1995).

In summary, there should be no adverse impact to any aquatic threatened or endangered species inhabiting this region of the estuary. The reasons for this are as follows.

- There are no project activities proposed along or in the East River that would directly affect these organisms or their habitats.
- Aquatic threatened or endangered species are rarely encountered at the site, do not reside there for extended periods, and do not use the area for spawning or nursery grounds.
- Rapid flushing of the East River would disperse any contaminants that might leave the project site and be discharged into the East River.

7.2 *Measures to Minimize Adverse Effects During Construction*

Attachment A (Project Description), Attachment G (Hazardous Materials), Attachment F (Turf Management), and Attachment I (Infrastructure) provide information on proposed measures to minimize potential effects on natural resources during construction of the golf course and the two parks. Construction activities will abide by an approved erosion and sediment control plan and stormwater management plan to minimize the discharge of sediments to surface waters. The following measures are expected to be implemented during construction of the golf course to minimize potential impacts.

- Install protective fencing to define areas of existing vegetation that should not be disturbed.
- Establish designated sediment/erosion control infiltration areas to protect surface water features.
- Install temporary seeding or matting, silt fencing, hay bales, and filter fabric as necessary for erosion and sediment control until permanent vegetation is complete.
- Establish shoulders to direct surface runoff into the existing soils and undisturbed portions of the secondary roughs.
- Install fencing and silt barriers (filter fabric or straw bales) to identify construction circulation corridors through otherwise undisturbed areas within the golf course.
- Stabilize material not used as fill for topsoil, seeding and sodding.
- Designate construction equipment and employee entrances.
- Designate staging areas that minimally disturb existing vegetation for: employee parking, equipment parking, maintenance and fuel compound, storage of construction materials, and construction management offices and restrooms.
- Provide a list of equipment to be used on site throughout construction.
- Specify equipment to be used in removing trash and rubbish from the two woodlands that will be preserved, Woodland Area 2 and Woodland Area 6, that will minimize potential tree damage and disturbance of ground surface. All ruts will be restored and destroyed trees will be replaced with a suitable species, which will ultimately be of greater habitat value.
- Establish measures necessary to minimize dust emissions.
- During the initial phase of construction activities, if feasible, establish grassland habitat at the northern border of the golf course, south of the cemetery, to provide habitat for species such as ring-necked pheasant.
- Implement the tree replacement program described in Section 7.1.

- Ensure that contractors comply with regulations and any special requirements outlined in the Final Development Plan, including any special safety precautions that should be followed by workers during construction.

7.3 *Measures to Minimize Adverse Effects During Operation*

Attachment A (Project Description), Attachment G (Hazardous Materials), Attachment F (Turf Management) and Attachment I (Infrastructure) present detailed descriptions of measures that are expected to be implemented as part of the project design and operation. The following sections briefly describe these measures.

7.3.1 *Golf Course*

Selection and Placement of Fill Material

Attachment G describes the specifications for the fill material that will be transported to the site to create the comprehensive golf facility. The specifications for the fill material will meet the standards agreed to by DEC and the developer of the Ferry Point Park Project.

Landscaping Plan

A vegetative buffer with detention ponds will be planted between the golf facility and the waterfront park along the East River. This buffer will: enhance habitat and separate the golf course from the waterfront park, reduce floodplain erosion, enhance native shrub communities, and improve riparian habitat.

Within natural areas of the golf course, vegetation will be selected to complement the comprehensive golf facility while at the same time providing wildlife cover and forage. Trees will be planted where possible to compensate for those greater than 6-inch dbh lost to the development of the site. A few large diameter trees will be planted to provide kestrel perching sites. In coordination with DEC, kestrel nest boxes will be placed throughout the comprehensive golf facility at suitable locations.

Creation of Lake and Vegetated Stormwater Detention Basins

The four lakes (ponds) will be designed to meet stormwater management requirements, as well as to provide wildlife habitat. They will be vegetated along the edge to provide a diversity of natural plant cover including herbaceous, shrub and tree species, landscaped to provide occasional views of the water. The six detention basins proposed as part of the stormwater management system will be vegetated with wetlands plants suitable for areas experiencing periodic flooding, that will not interfere with the stormwater management function.

Management Plan

The IGCMP will adopt principles from *Golf & the Environment, Environmental Principles for Golf Courses (1996).* In addition to using low maintenance non-invasive turf-type grass, it will incorporate Best Management Practices (BMPs), including an integrated pest management (IPM) program to minimize potential effects on natural resources, as presented in the IPM Strategy and BMPs developed for the golf course (Attachment F).

The IPM is an interdisciplinary program that considers the merits of predominant pest control tactics and incorporates them into a single system to prevent unacceptable levels of pest damage. The control methods are designed not to eradicate pest populations, but to economically manage them while minimizing potential effects on people, the environment, and property. Pesticides are used in appropriate amounts, only after other measures of control have been considered and applied. The IPM focuses attention on monitoring soil nutrition so that specific fertilizers are applied during periods of maximum plant uptake. The objective of any IPM program is to reduce pest populations while keeping pesticide applications to a minimum (Erusha 1995).

In order to comply with the conditions outlined in the IGCMP, the Golf Course Superintendent and professional staff will be provided with the following resources:

- Expertise to make informed choices for managing and enhancing the vegetative buffers with native plants, and written BMPs that ensure wetland preservation and reduction of erosion.
- Access to consultants who will assist with the IPM program and maximize the results during the grow-in period.
- Availability of local ecologists to assist in making informed choices concerning native plants, opportunities for wetland creation, and habitat enhancement.
- Proper equipment and diagnostic tools for pest identification.
- Sufficient staff time to consistently monitor each management unit.

7.3.2 *Waterfront Park*

Landscaping Plan—Existing vegetation in the Waterfront Park will be removed, with the exception of a few trees, and replaced with indigenous vegetation to create a more diverse vegetation community. Kestrel nesting boxes and perching trees will be incorporated into the design where suitable.

7.3.3 *Community Park*

Landscaping Plan—Existing vegetation will be removed, with the exception of a few trees, and replaced with indigenous vegetation to create a more

diverse vegetation community. Kestrel nest boxes and perching trees will be incorporated into the design where suitable.

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Table 7-1

LANDSCAPE PLANT LIST

New Deciduous Shade Trees:

Celtis occidentalis	hackberry
Nyssa sylvatica	blackgum
Plantanus acerifolia	london plane
Populus alba 'Bolleava'	poplar
Populus tremuloides	quaking aspen
Prunus serotina	choke cherry
Quercus alba	white oak
Salix acerfolia	willow
Sassafras albidum	sassafras
Tilia americana	american linden
Ulmus parvifolia	chinese elm

New Evergreen Trees:

Cupressocyparis leylandii	leyland cypress
Juniperus virginiana	eastern red cedar
Picea pungens	colorado blue spruce
Pinus densiflora 'umbraculifera'	tanyosho pine

New Evergreen Buffer & Screening:

Abies concolor	white fir
Berberis thunbergii	japanese barberry
Cupressocyparis leylandii	leyland cypress
Ilex glabra	inkberry
Juniperus chinensis	juniper
Juniperus virginiana	eastern red cedar
Picea abies	norway spruce
Picea pungens	colorado blue spruce

New Seasonal Understory (Minor Trees):

Amalanchier arborea	downy serviceberry
Amalanchier canadensis	shadblow
Amalanchier grandiflora	
Crataegus crusgalli	cockspur hawthorne
Crataegus phaenopyrum	washington hawthorne
Elaeagnus angustifolia	russian olive
Elaeagnus umbellata	autumn olive
Prunus maritima	beach plum
Prunus x cistena	purpleleaf sand cherry
Rhus typhina	staghorn sumac
Vibernum spp.	virburnum

Native Deciduous Shrubs:

Amelanchier canadensis	shadblow (shrub form)
Aronia arbutifolia	red chokeberry
Aronia melanocarpa	black chokeberry
Clethra alnifolia	summersweet
Cytisus scoparius	scotch broom
Ilex glabra	inkberry

Kalmia latifolia	mountain laurel
Myrica pensylvanica	bayberry
Rhododendron nudiflorem	pinxter flower
Rhus copallina	sumac
Rosa nitida	
Rosa Rugosa	beach rose
Rosa virginiana	wild rose
Rubus allegheniensis	northern blackberry
Salix nigra	black willow
Viburnum spp.	viburnum

Ornamental Shrubs:

Ligustrum ovalifolium	california privet
Lonicera tatarica	tatarian honeysuckle
Potentilla spp.	potentilla
Syringa vulgaris	common lilac
Tamarix africana	african tamarisk
Juniperus spp.	juniperus
Pinus mugo	mugo pine
Lavendula	english lavender
Rhododendron spp.	Rhododendron
Spirea spp.	spirea
Paeonia spp.	chinese peony

Tall Native Grasses/ Herbaceous Perennials:

Andropogon gerardii	big blue stem/ beard grass
Calamagrostis arundinacea 'Karl Foerster'	feather reed grass
Calamagrostis arundinacea 'overdam'	feather reed grass
Miscanthus spp.	maiden grass
Panicum virgatum	switch grass

Medium Meadow Grasses/ Herbaceous Perennials:

Ammophila breviligulata	dune grass
Andropogon scoparius	little blue stem
Carex morrowii 'aurea-variegata'	varigated japanese sedge
Erianthus ravennae	pampas grass
Hydrangea macrophylla	'blue lace cap'
Hydrangea quercifolia	oak leaved hydrangea
Ophiopogon japonicus	mondo grass
Pennisetum spp.	fountain grass
Perovskia atriplicifolia	russian sage
Phalaris arundinacea picta	ribbon grass
Rhubus allegheniensis	northern blackberry
Solidago odora	sweet goldenrod

Low Native Grasses:

Cumptonia peregrina	sweetfern
Festuca ovina glauca 'Eijah Bue'	blue fescue
Helictotrichon sempervirens	blue oat grass
Imperata cylindrica 'rubra'	japanese blood grass
Limonium carolinianum	sea lavender
Liatris spicata	gayfeather
Potentilla	cinquefoil
Rudbeckia	black-eyed Susan
Echinaea purpure 'Bright Star'	purple coneflower
Coreopsis	tickseed

Hemerocallis	daylilly
Eupatorium maculatum	Joe Pyeweed
Koeleria cristata	junegrass
Ophiopogon japonicus nanus	dwarf mondo grass
Sisyrinchium angustifolium	blue-eyed grass (iris family)
Stokesia laevis 'blue danube'	stokes aster

Ground Covers: Grasses/ Herbaceous Perennials:

Arctostaphylus ura-ursi	bearberry
Epigaea repans	trailing arbutus (wild strawberry)
Festuca ovina 'glauca'	blue fescue
Viola pedata	birds-foot violet

Emergents:

Distichlis spicata	spike grass
Limonium carolinianum	sea lavender
Sparina patens	salt meadow cordgrass
Spartina alterniflora	smooth cordgrass
Spartina cynosuroides	big cordgrass
Typha angustifolia	narrowleaf cattail

Beach Grass:

Ammophila breviliqulata	beach grass
Artemisia stellerana	beach wormwood
Lathyrus japonicus	beach pea
Solidago sempervirens	seaside goldenrod
Solidago odora	sweet goldenrod
Spartina spp.	cordgrass

Pond Borders:

Carex crinita	fringed sedge
Carex lurida	shallow sedge
Carex spp.	sedge
Hibiscus palustris	marshmallow
Iris veriscolor	blue flag iris
Juncus effusus	soft rush
Leersia oryzoides	rice cutgrass
Saggittaria latifolia	arrowood
Scirpus americanus	swordgrass
Typha augustifolia	narrow-leaved cattail

Appendix E1

Plant Species Observed on the Ferry Point Park Site

APPENDIX E1 *Plant Species Observed on the Ferry Point Park Site*

The following is a list of vascular plant species identified at the Ferry Point Park site, Bronx County, New York City, New York. The community type where each species was observed is provided. Key to community types: RL - Recreational Land, DL - Developed Land, EF - Estuarine Flat, W - Urban Woodland, UM1 - Urban Meadow 1 (mixed grass community), UM2 - Urban Meadow 2 (Common Reed/ Mugwort Community) and EW - Emergent Wetland.

Species Name Scientific	Common	Community Type
Aceraceae		
Acer rubrum	Red maple	W
Acer platanoides	Norway maple	W
Acer saccharinum	Silver maple	W
Acer negundo	Box elder	W
Anacardiaceae		
Rhus typhina	Staghorn sumac	UM1, UM2
Toxicodendron radicans	Poison ivy	W
Apocynaceae		
Apocynum sp.	Dogbane	UM1, UM2
Asclepiadaceae		
Asclepias syriaca	Common milkweed	UM1
Asteraceae		
Ambrosia artemisiifolia	Common ragweed	UM1,UM2
Achillea millefolium	Yarrow	UM1
Artemesia vulgaris	Mugwort	UM2
Baccharis halmifolia	Groundsel tree	UM2
Coreopsis lanceolata	Lance lvd. coreopsis	UM1
Crysanthemum leucanthemum	Ox-eye daisy	UM1
Erigeron annuus	Daisy fleabane	UM1, UM2
Rudbeckia hirta	Black-eyed susan	UM1
Matricaria matricaroides	Pineapple weed	UM1, UM2
Solidago sempervirens	Seaside goldenrod	UM1, UM2
Taraxacum officinale	Common dandelion	RL
Eupatorium maculatum	Joe-pye-weed	UM2, EW
Centuarea sp.	Knapweed	UM1
Chichorium intybus	Chickory	UM1
Xanthium strumarium	Cocklebur	UM1
Balsaminaceae		

Appendix E1 Continued

Species Name Scientific	Common	Community Type
Impatiens capensis	Jewelweed	EW
Brassicaceae		
Lepidium virginicum	Pepper grass	UM1
Caprifoliaceae		
Lonicera japonica	Japanese honeysuckle	W
Lonicera	Shrub honeysuckle	
Sambucus canadensis	Common elder	UW1
Caryophyllaceae		
Lychnis alba	Evening lychnis	UM1, UM2
Dianthus armeria	Deptford pink	UM1
Celastraceae		
Celastrus orbiculatus	Oriental bittersweet	W
Chenopodiaceae		
Chenopodium album	Lamb=s quarters	UM1
Commelinaceae		
Tradescantia virginiana	Spiderwort	UM2
Convolvulaceae		
Convolvulus arvensis	Field bindweed	UM1
Ipomea sp.	Morning glory	UM2
Cyperaceae		
Cyperus	Yellow nut sedge	EW
Eleocharis sp.	Spike rush	EW
Scirpus tabernaemontanii	Soft stemmed bulrush	EW
Fagaceae		
Quercus palustris	Pin oak	W
Quercus phellos	Willow oak	RL
Gramineae		
Agropyron repens	Quack grass	UM1
Bromus tectorum	Downy cheese	UM1, UM2
Bromus inermis	Smooth brome grass	UM1
Dactylis glomerata	Orchard grass	UM1
Festuca rubra	Red fescue	UM1
Hordeum jubatum	Squirreltail grass	UM1
Anthoxanthum odoratum	Sweet vernal grass	UM2

Panicum virgatum	Switch grass	UM1
Poa pratensis	Kentucky blue grass	UM1
Phleum pratense	Timothy	UM1
Phragmites australis	Common reed	UM1, UM2, W
Spartina alterniflora	Saltwater cordgrass	EF
Hypericaceae		
Hypericum perforatum	St. John's-wort	UM2

Appendix E1 Continued

Species Name Scientific	Common	Community Type
Juncaceae		
Juncus effusus	Soft rush	EW
Lauraceae		
Sassafras albidum	Sassafras	W
Fabaceae		
Coronilla varia	Crown vetch	UM1
Medicago sativa	Alfalfa	UM1
Melilotus officinalis	Yellow sweet clover	UM1
Lathyrus latifolius	Everlasting pea	UM1
Robinia pseudoacacia	Black locust	W, UM2
Trifolium repens	White clover	RL,
Trifolium pratense	Red clover	UM1
Trifolium arvensis	Rabbit=s foot clover	RL, UM1
Trifolium procumbens	Smaller hop clover	UM1
Labiatae		
Glecoma hederacea	Ground ivy	UM1
Liliaceae		
Allium vineale	Field garlic	UM1
Hemerocallis fulva	Day lily	UM2
Lythtraceae		
Lythrum salicaria	Purple loosestrife	EW
Moraceae		
Morus rubra	Red mulberry	W
Oleaceae		
Fraxinus americana	White ash	W
Onagraceae		
Oenothera biennis	Common evening-primrose	UM1, UM2
Phytolaccaceae		
Phytolacca americana	Common pokeweed	UM2, W
Platanaceae		
Platanus sp.	Sycamore	RL

Appendix E1 Continued

Species Name Scientific	Common	Community Type
Plantaginaceae		
Plantago lanceolata	English plantain	UM1, RL
Plantago major	Common plantain	UM1, RL
Polygonaceae		
Polygonum cuspidatum	Japanese knotweed	UM1, UM2, W
Polygonum persicarea	Lady's thumb	EW
Rumex crispus	Curly dock	UM1, UM2
Rosaceae		
Prunus serotina	Black cherry	W
Prunus avium	Sweet cherry	W
Rosa multiflora	Multiflora rose	W
Rosa rugosa	Rugose rose	UM1
Rubus alleghaniensis	Allegheny blackberry	UM1, UM2
Rubiaceae		
Galium sp.	Bedstraw	UM2, W
Salicaceae		
Populus deltoides	Cottonwood	W, UM2
Salix nigra	Black willow	W
Scrophulariaceae		
Verbascum thapsus	Common mullein	UM1
Verbascum blattaria	Moth mullein	UM1, UM2
Linaria vulgaris	Butter & eggs	UM1
Simarubaceae		
Ailanthus altissima	Tree-of-Heaven	W, UM1, UM2
Solanaceae		
Datura stramonium	Jimson weed	UM2
Solanum dulcamara	Nightshade	W
Tiliaceae		
Tilia sp.	Basswood	W
Ulmaceae		
Ulmus americana	American elm	W
Vitaceae		
Parthencissus quinquefolia	Virginia creeper	W
Vitis sp.	Wild grape	W

Appendix E2

Wildlife Species Observed on the Ferry Point Park Site

Appendix E2 Continued

Species Name Scientific	Common	Habitat
Raptors		
Cathartes aura	Turkey vulture	UM1, UM2
Accipiter striatus	Sharp-shinned hawk	UM1, UM2
Accipiter cooperii	Coopers hawk	UM1, UM2
Circus cyaneus*	Northern harrier	UM1, UM2
Buteo jamaicensis*	Red-tailed hawk	UM1, UM2
Falco sparverius	American kestrel	UM1
Falco peregrinus	Peregrine falcon	IS, UM1, UM2
Otus asio	Eastern screech owl	W
Asio flammeus	Short eared owl	UM1, UM2
Fowl		
Phasianus colchicus	Ring-necked pheasant	UM1, UM2
Doves		
Zenaida macroura	Mourning dove	RL, DL, UM1, UM2
Columba livia	Rock dove	RL, DL, IS, UM
Nightjars		
Chordeiles minor	Nighthawk	UM1, UM2
Swifts		
Chaetura pelagica	Chimney swift	UM1, UM2
Woodpeckers		
Colaptes auratus*	Northern flicker	W, RL
Picoides pubescens*	Downy woodpecker	W
Kingfishers		
Ceryle alcyon	Belted kingfisher	ET, OW
Passerines		
Myiarchus crinitus	Great-crested flycatcher	W
Contopus virens	Eastern wood pewee	W
Empidonax trailii*	Willow flycatcher	UM1, UM2, W
Hirundo rustica*	Barn swallow	UM1, UM2, OW, RL
Tachycineta bicolor*	Tree swallow	UM1, UM2, OW, RL
Tyrannus tyrannus	Eastern kingbird	W, RL
Cyanocitta cristata*	Blue jay	RL, W,
Corvus brachyrhynchos*	American crow	UM1, UM2, OW, RL
Corvus ossifragus	Fish crow	UM1, UM2, OW, RL

APPENDIX E2 *Wildlife Species Observed or Likely to Occur on the Ferry Point Site*

BIRDS

The following is a list of birds that were either observed or may be possible visitors or residents of the Ferry Point Park site. Key to habitat types: RL - Recreational Land, DL - Developed Land, IS - Intertidal Rocky Shoreline, W - Urban Woodland, UM1 - Urban Meadow 1 (mixed grass community), UM2 - Urban Meadow 2 (Common reed/ Mugwort Community), OW -Open water and EW - Emergent Wetland. Species observed during the site inspection are marked with an asterisk.

Species Name Scientific	Common	Habitat
Cormorants		
Phalacrocorax auritus*	Double crested cormorant	OW
Wading birds		
Ardea herodius	Great blue heron	IS
Nycticorax nycticorax*	Black crowned night heron	IS
Egretta thula*	Snowy egret	IS
Casmerodius albus*	Great egret	IS
Plegadis falcinellus*	Glossy ibis	IS
Waterfowl		
Branta canadensis*	Canada goose	OW, IS
Branta bernicla	Brant	OW
Anas platyrhynchos*	Mallard	OW, IS
Anas rubripes	American black duck	OW, IS
Althya ferina	Canvasback	OW
Aythya collaris	Ring-necked duck	OW
Aythya marila	Greater scaup	OW
Bucephala albeola	Bufflehead	OW
Shorebirds		
Charadrius vociferus	Killdeer	IS, RL, DL, UM1
Scolopax minor*	American woodcock	EW, W
Gulls		
Larus argentus*	Herring gull	OW
Larus marinus*	Great black-backed gull	OW
Larus delawarensis*	Ring-billed gull	OW
Larus atricca*	Laughing gull	OW

Appendix E2 Continued

MAMMALS

The following is a list of mammals that were either observed or may be possible visitors or residents of the Ferry Point Park site. Key to habitat types: RL - Recreational Land, DL - Developed Land, IS - Intertidal Rocky Shoreline, W - Urban Woodland, UM1 - Urban Meadow 1 (mixed grass community), UM2 - Urban Meadow 2 (Common reed/ Mugwort Community), OW -Open water and EW - Emergent Wetland. Species observed during the site inspection are marked with an asterisk.

Species Name Scientific	Common	Habitat
Blarina brevicanda	Short-tailed shrew	UM1, UM2,W, RL
Scalopus aquaticus	Eastern mole	UM1, UM2,W, RL
Myotis leibii	Eastern small-footed myotis	UM1, UM2,W, RL
Lasionycteris noctivagans	Silver-haired bat	UM1, UM2,W, RL, DL
Pipistrellus subflavus	Eastern pipistrelle	UM1, UM2,W, RL, DL
Eptesicus fuscus	Big brown bat	W, DL, RL, UM1, UM2
Sylvilagus floridanus*	Eastern cottontail	UM1, UM2
Tamias striatus	Eastern chipmunk	UM1, UM2
Marmota monax	Woodchuck	W, UM2
Sciurus carolinensis*	Eastern gray squirrel	UM1, UM2
Peromyscus leucopus	White-footed mouse	UM1, UM2
Peromyscus maniculatus	Deer mouse	UM1, UM2
Microtus pennsylvanius	Meadow vole	UM1, UM2
Procyon lotor	Raccoon	W, UM1, UM2
Mephitis mephites	Striped skunk	W
Rattus norvegicus	Norway rat	W, DL
Mus musculus	House mouse	UM1, UM2
Didelphis marsupaialis	Opossum	UM1, UM2, W
Felis domisticus	Feral cat	UM1, UM2, W, RL, DL
Canis domesticus	Feral dog	UM1, UM2, W, RL, DL

Appendix E2 Continued

Species Name Scientific	Common	Habitat
Carduelis tristis*	American goldfinch	UM1, UM2
Carpodacus mexicanus	House finch	UM1, UM2, RL
Parus bicolor	Tufted titmouse	W
Parus atricapillus	Black capped chickadee	W, RL
Sitta carolinensis	White-breasted nuthatch	W, RL
Troglodytes aedon	House wren	W, RL
Turdus migratorius*	American robin	W, RL, UM1
Dumetella caroliniensis*	Gray catbird	W
Mimus polyglottos*	Northern mockingbird	W, RL
Toxostoma rufum	Brown thrasher	W, UM1, UM2
Sturnus vulgaris*	Starling	UM1, UM2, DL, RL
Vireo griseus	White-eyed vireo	W
Dendroica petechia*	Yellow warbler	W, UM1, UM2,
Geothlypis trichas*	Common yellowthroat	W, UM1, UM2,
Cardinalis cardinalis	Northern cardinal	W, UM1, UM2
Passerina cyanea	Indigo bunting	W, UM1, UM2
Pipilo erythrophthalmus	Rufous-sided towhee	W
Spizella passerina	Chipping sparrow	W, RL
Spizella pusilla	Field sparrow	UM1, UM2
Melospiza melodia*	Song sparrow	UM1, UM2,W, RL
Zonotrichia albicollis	White throated sparrow	UM1, UM2,W, RL
Junco hyemalis	Dark-eyed junco	UM1, UM2,W, RL
Agelaius phoeniceus*	Red-winged blackbird	UM1, UM2,W, RL
Molothrus ater*	Brown-headed cowbird	UM1, UM2,W, RL
Quiscalus quiscula	Common grackle	UM1, UM2,W, RL
Passer domesticus*	House sparrow	UM1, UM2,W, RL, DL

Appendix E2 Continued

REPTILES AND AMPHIBIANS

The following is a list of reptiles and amphibians that were either observed or may be possible visitors or residents of the Ferry Point Park site. Key to habitat types: RL - Recreational Land, DL - Developed Land, IS -Intertidal Rocky Shoreline, W - Urban Woodland, UM1 - Urban Meadow 1 (mixed grass community), UM2 - Urban Meadow 2 (Common reed/ Mugwort Community), OW -Open water and EW - Emergent Wetland. Species observed during the site inspection are marked with an asterisk..

Species Name		
Scientific	**Common**	**Habitat**
Turtles		
Melanoclemys terrapin	Diamond-backed terrapin	IS
Frogs and Toads		
Bufo woodhousei	Fowler=s toad	UM1, UM2

Appendix E3

List of Fish Species Found in the Lower Hudson River, East River, and Upper New York Bay

APPENDIX E3 ***List of Fish Species Found in the lower Hudson River, East River, and Upper New York Bay 1982-1994***

Common Name	Scientific Name
Atlantic sturgeon	Acipenser oxyrhynchus
American eel	Anguilla rostrata
Conger eel	Conger oceanicus
Blueback herring	Alosa aestivalis
Hickory shad	Alosa mediocris
Alewife	Alosa pseudoharengus
American shad	Alosa sapidissima
Atlantic menhaden	Brevoortia tyrannus
Atlantic herring	Clupea harengus
Gizzard shad	Dorosoma cepedianum
Bay anchovy	Anchoa mitchilli
Rainbow smelt	Osmerus mordax
Inshore lizardfish	Synodus foetens
Oyster toadfish	Opsanus tau
Fourbeard rockling	Enchelypous cimbrius
Silver hake	Merluccius bilinearis
Tomcod	Microgadus tomcod
Pollock	Pollachius virens
Spotted hake	Urophycis regius
Red hake	Urophycis chuss
Atlantic cod	Gadus morhua
Cusk eel	Lepophidium cervinum
Atlantic silversides	Menidia menidia
Threespine stickleback	Gasterosteus aculeatus
Lined seahorse	Hippocampus erectus
Northern pipefish	Syngnathus fuscus
Mummichog	Fundulus heteroclitus
Striped killifish	Fundulus majalis
Banded killifish	Fundulus diaphanus
Atlantic needlefish	Tylosurus marinus
Grubby	Myoxocephalus aenaeus
Longhorn sculpin	M. octodecimspinosus
Black sea bass	Centropristis striata
Short bigeye	Pseudopriacanthis altus
Grey snapper	Lutjanus griseus
White perch	Morone americana
Striped bass	Morone saxatilis
Bluegill	Lepomis macrochinus
Bluefish	Pomatomus saltatrix
Crevalle jack	Caranx hippos
Lookdown	Selene vomer
Rough scad	Trachurus lathami
Silver perch	Bairdiella chrysura
Weakfish	Cynoscion regalis
Spot	Leiostomus xanthurus
Northern kingfish	Menticirrhus saxatilis

Appendix E3 Continued

Common Name	Scientific Name
Scup	Stenotomus chrysops
Spotfin butterflyfish	Chaetodon ocellatus
Striped mullet	Mugil cephalus
White mullet	Mugil curema
Blackfish	Tautoga onitis
Cunner	Tautogolabrus adspersus
Rock gunnel	Pholis gunnellus
American sandlance	Ammodytes americanus
Butterfish	Peprilus triacanthus
Northern searobin	Prionotus carolinus
Striped searobin	Prionotus evolans
Smallmouth flounder	Etropus microstomus
Summer flounder	Paralichthys dentatus
Four-spot flounder	Paralichthys oblongus
Windowpane	Scophthalamus aquosus
Winter flounder	Pseudophleuronectes americanus
Hogchoker	Trinectes maculatus
Planehead filefish	Monocanthus hispidus
Northern puffer	Sphoeroides maculatus
Atlantic croaker	Micropogonias undulatus
Atlantic mackerel	Scomber scombrus
Atlantic moonfish	Selene setapinnis
Goosefish	Lophius americanus
White hake	Urophycis tenuis
Tautog	Tautoga onitis

Sources: Woodhead (1990), EEA (1988), EA Engineering, Science & Technology (1990), Able et at. (1995)

Appendix E4

Threatened or Endangered Species Correspondence

New York State Department of Environmental Conservation
Division of Fish, Wildlife & Marine Resources
Wildlife Resources Center – New York Natural Heritage Program
700 Troy-Schenectady Road, Latham, New York 12110-2400
Phone: (518) 783-3932 FAX: (518) 783-3916

John P. Cahill
Commissioner

May 27, 1999

RECEIVED
0 1 1999

Sandra Collins
PBS and J
4201 North View Drive, Suite 302
Bowie, MD 20716

Dear Ms. Collins:

In response to your recent request, we have reviewed the New York Natural Heritage Program databases with respect to the proposed Public Golf Course on a portion of Ferry Point Park, area as indicated on the map you provided. Site is located in the Bronx, New York City.

Enclosed is a report of rare or state-listed animals and plants, of significant natural communities, and of other significants habitats, which our databases indicate occur, or may occur, on your site or in the immediate vicinity of your site. The information contained in this report is considered sensitive and may not be released to the public without permission from the New York Natural Heritage Program.

For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our databases. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. This information should not be substituted for on-site surveys that may be required for environmental impact assessment.

Our databases are continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

This response applies only to known occurrences of rare or state-listed animals and plants, of significant natural communities, and of other significant habitats. For information regarding regulated areas or permits that may be required under state law (e.g., regulated wetlands), please contact the appropriate NYS DEC Regional Office, Division of Environmental Permits, at the enclosed address.

Sincerely,

Teresa Mackey, Information Services
NY Natural Heritage Program

Encs.
Cc: Reg. 2, Wildlife Manager

SIGNIFICANT HABITATS

DATE : 05/26/99

EPORT ID#	NAME OF AREA	TYPE OF AREA	COUNTY	TOWN OR CITY	QUADRANGLE	LATITUDE (DEG MIN SEC)	LONGITUDE
03-001	Whitestone Bridge to Bronx/West. Co. Line	Waterfowl Wintering Area	Bronx	Bronx - New York City	Flushing	40 50 41	73 47 50

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL PERMITS REGIONAL OFFICES

REGION	COUNTIES	NAME	ADDRESS AND PHONE NO.
Region 1	Nassau Suffolk	Robert Greene Permit Administrator	Loop Road, Bldg. 40 SUNY Stony Brook, NY 11790-2356 (516) 444-0365
Region 2	New York City	George Danskin Permit Administrator Joe Pane	Hunters Point Plaza 4740 21st Street Long Island City, NY 11101-5407 (718) 482-4997
Region 3	Dutchess Orange Putnam Rockland, Sullivan Ulster, Westchester	Margaret Duke Permit Administrator	21 South Putt Corners Road New Paltz, NY 12561-1696 (914) 256-3059
Region 4	Albany Columbia Delaware Greene, Montgomery, Otsego Rensselaer, Schenectady, Schoharie	William J. Clarke Permit Administrator	1150 N. Westcott Road Schenectady, NY 12306-2014 (518) 357-2234
Region 5	Clinton Essex Franklin Fulton, Hamilton Saratoga, Warren, Washington	Richard Wild Permit Administrator	Route 86 Ray Brook, NY 12977 (518) 897-1234
Region 6	Herkimer Jefferson Lewis Oneida, St. Lawrence	Randy Vaas Permit Administrator	State Office Building 317 Washington Street Watertown, NY 13601 (315) 785-2246
Region 7	Broome Cayuga Chenango Cortland, Madison, Onondaga Oswego, Tioga, Tompkins	Ralph Manna, Jr. Permit Administrator	615 Erie Blvd. West Syracuse, NY 13204-2400 (315) 426-7439
Region 8	Chemung Genesee Livingston Monroe, Ontario, Orleans Schuyler, Seneca, Steuben Wayne, Yates	Albert Butkas Permit Administrator	6274 East Avon-Lima Road Avon, NY 14414 (716) 226-2466
Region 9	Allegany Cattaraugus Chautauqua Erie, Niagara, Wyoming	Steven Doleski Permit Administrator	270 Michigan Avenue Buffalo, NY 14203-2999 (716) 851-7165

USERS GUIDE TO NY NATURAL HERITAGE DATA

New York Natural Heritage Program, 700 Troy-Schenectady Road, Latham NY 12110-2400 phone: (518) 783-3932

NATURAL HERITAGE PROGRAM: The Natural Heritage Program is an ongoing, systematic, scientific inventory whose goal is to compile and maint on the rare plants and animals native to New York State, and significant ecological communities. The data provided in the report facilitate sound pl conservation, and natural resource management and help to conserve the plants, animals and ecological communities that represent New York's natural h

DATA SENSITIVITY: The data provided in the report are ecologically sensitive and should be treated in a sensitive manner. The report is for your ir use and should not be released, distributed or incorporated in a public document without prior permission from the Natural Heritage Program.

NATURAL HERITAGE REPORTS (may contain any of the following types of data):

COUNTY NAME: County where the occurrence of a rare species or significant ecological community is located.
TOWN NAME: Town where the occurrence of a rare species or significant ecological community is located.
USGS 7 ½' TOPOGRAPHIC MAP: Name of 7.5 minute US Geological Survey (USGS) quadrangle map (scale 1:24,000).
LAT: Centrum latitude coordinate of the location of the occurrence. Caution: latitude & longitude must be used with PRECISION (e.g. the location occurrence with M (minute) precision is not precisely known & is thought to occur within a 1.5 mile radius of the latitude/longitude coordinate
LONG: Centrum longitude coordinate of the location of the occurrence. See also LAT above.
PRECISION: S - seconds: location known precisely. (within a 300' or 1-second radius of the latitude and longitude given.
M - minutes: location known only to within a 1.5 mile (1 minute) radius of the latitude and longitude given.
G - general: location known to within a 5 mile radius of the latitude and longitude given.
SIZE (acres): Approximate acres occupied by the rare species or significant ecological community at this location.
SCIENTIFIC NAME: Scientific name of the occurrence of a rare species or significant ecological community.
COMMON NAME: Common name of the occurrence of a rare species or significant ecological community.
ELEMENT TYPE: Type of element (i.e. plant, animal, significant ecological community, other, etc.)
LAST SEEN: Year rare species or significant ecological community last observed extant at this location.
EO RANK: Comparative evaluation summarizing the quality, condition, viability and defensibility of this occurrence. Use with LAST SEEN and PRECISI
A-E = Extant: A=excellent, B=good, C=marginal, D=poor, E=extant but with insufficient data to assign a rank of A - D.
F = Failed to find. Did not locate species, but habitat is still there and further field work is justified.
H = Historical. Historical occurrence without any recent field information.
X = Extirpated. Field/other data indicates element/habitat is destroyed and the element no longer exists at this location.
? = Unknown.
Blank = Not assigned.

NEW YORK STATE STATUS (animals): Categories of Endangered and Threatened species are defined in New York State Environmental Conservati Law section 11-0535. Endangered, Threatened, and Special Concern species are listed in regulation 6NYCRR 182.5.

E = Endangered Species: any species which meet one of the following criteria:
1) Any native species in imminent danger of extirpation or extinction in New York.
2) Any species listed as endangered by the United States Department of the Interior, as enumerated in the Code of Federal Regulations 50 CFR 17.11
T = Threatened Species: any species which meet one of the following criteria:
1) Any native species likely to become an endangered species within the foreseeable future in NY.
2) Any species listed as threatened by the U.S. Department of the Interior, as enumerated in the Code of the Federal Regulations 50 CFR 17.11.
SC = Special Concern Species: those species which are not yet recognized as endangered or threatened, but for which documented concern exists for the continued welfare in New York. Unlike the first two categories, species of special concern receive no additional legal protection under Environments Conservation Law section 11-0535 (Endangered and Threatened Species).
P = Protected Wildlife (defined in Environmental Conservation Law section 11-0103): wild game, protected wild birds, and endangered species of wildlife
U = Unprotected (defined in Environmental Conservation Law section 11-0103): the species may be taken at any time without limit; however a license to take may be required.
G = Game (defined in Environmental Conservation Law section 11-0103): any of a variety of big game or small game species as stated in the Environmental Conservation Law; many normally have an open season for at least part of the year, and are protected at other times.

NEW YORK STATE STATUS (plants): The following categories are defined in regulation 6NYCRR part 193.3 and apply to NYS Environmental Conservation Law section 9-1503.

(blank) = no state status
E = Endangered Species: listed species are those with:
1) 5 or fewer extant sites, or
2) fewer than 1,000 individuals, or
3) restricted to fewer than 4 U.S.G.S. 7 ½ minute topographical maps, or
4) species listed as endangered by U.S. Department of Interior, as enumerated in Code of Federal Regulations 50 CFR 17.11.
T = Threatened: listed species are those with:
1) 6 to fewer than 20 extant sites, or
2) 1,000 to fewer than 3,000 individuals, or
3) restricted to not less than 4 or more than 7 U.S.G.S. 7 and ½ minute topographical maps, or
4) listed as threatened by U.S. Department of Interior, as enumerated in Code of Federal Regulations 50 CFR 17.11.
R = Rare: listed species have:
1) 20 to 35 extant sites, or
2) 3,000 to 5,000 individuals statewide.
U = Unprotected
V = Exploitably vulnerable: listed species are likely to become threatened in the near future throughout all or a significant portion of their range within the state if causal factors continue unchecked.

NEW YORK STATE STATUS (communities): At this time there are no categories defined for communities.

continued on next page

FEDERAL STATUS (plants and animals): The categories of federal status are defined by the United States Department of the Interior as part Endangered Species Act (see Code of Federal Regulations 50 CFR 17). The species listed under this law are enumerated in the Federal Register vol. 5 pp. 39526 - 39527.

(blank) = No Federal Endangered Species Act status.
LE = The taxon is formally listed as endangered.
LT = The taxon is formally listed as threatened.
LELT = The taxon is formally listed as endangered in part of its range and threatened in other parts.
PE = The taxon is proposed as endangered.
PT = The taxon is proposed as threatened.
C1 = Candidate, category 1 - There is sufficient information to list the taxon as endangered or threatened.
C2 = Candidate, category 2 - The taxon may be appropriate for listing but more data are needed.
3A = The taxon considered extinct by the U. S. Fish and Wildlife Service (USFWS).
3B = The taxon is no longer considered taxonomically distinct by the USFWS and thus is not appropriate for listing.
3C = The taxon has been shown to be more abundant, widespread, or better protected than previously thought and therefore not in need of official
* = The taxon is possibly extinct.
** = The taxon is thought to be extinct in the wild but extant in cultivation.
Additional codes:
(C2NL) = Heritage code indicating that the taxon is a candidate in some areas, not listed in other areas.
(E/SA) = Heritage code indicating that the taxon is endangered because of similarity of appearance to other endangered species or subspecies.

FEDERAL STATUS (ecological communities): At this time there are no federal status categories defined for ecological communities.

GLOBAL AND STATE RANKS (animals, plants, ecological communities and others): Each element has a global and state rank as determined b Natural Heritage Program. These ranks carry no legal weight. The global rank reflects the rarity of the element throughout the world and the state ran the rarity within New York State. Infraspecific taxa are also assigned a taxon rank to reflect the infraspecific taxon's rank throughout the world.

GLOBAL RANK:
G1 = Critically imperiled globally because of extreme rarity (5 or fewer occurrences), or very few remaining acres, or miles of stream) or especially v to extinction because of some factor of its biology.
G2 = Imperiled globally because of rarity (6 - 20 occurrences, or few remaining acres, or miles of stream) or very vulnerable to extinction throughout because of other factors.
G3 = Either rare and local throughout its range (21 to 100 occurrences), or found locally (even abundantly at some of its locations) in a restricted rang physiographic region), or vulnerable to extinction throughout its range because of other factors.
G4 = Apparently secure globally, though it may be quite rare in parts of its range, especially at the periphery.
G5 = Demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery.
GH = Historically known, with the expectation that it might be rediscovered.
GX = Species believed to be extinct.
GU = Status unknown.

STATE RANK:
S1 = Typically 5 or fewer occurrences, very few remaining individuals, acres, or miles of stream, or some factor of its biology making it especially vul in New York State.
S2 = Typically 6 to 20 occurrences, few remaining individuals, acres, or miles of stream, or factors demonstrably making it very vulnerable in New Yor
S3 = Typically 21 to 100 occurrences, limited acreage, or miles of stream in New York State.
S4 = Apparently secure in New York State.
S5 = Demonstrably secure in New York State.
SH = Historically known from New York State, but not seen in the past 15 years.
SX = Apparently extirpated from New York State.
SA = Accidental or casual in the state.
SE = Exotic, not native to New York State.
SP = Element potentially occurs in the state but there are no occurrences reported.
SR = Reported in the state but without persuasive documentation.
SU = Status unknown.
TAXON (T) RANK: The T-ranks (T1 - T5) are defined the same way the Global ranks (G1 - G5) are but the T-rank only refers to the rarity of the subsp taxon of the species as a whole.
T1 through T5 = See Global Rank definitions above.
Q = Indicates a question exists whether or not the taxon is a good taxonomic entity.
? = Indicates a question exists about the rank.

OFFICE USE: Information for use by the Natural Heritage Program.

SIGNIFICANT HABITAT DATABASE REPORTS (Use of this database is slowly being discontinued as the data is integrated into Heritage databas
REPORT ID: Significant habitat file code.
NAME OF AREA: Site name where the significant habitat is located.
TYPE OF AREA: Type of significant habitat.
COUNTY/TOWN OR CITY: County and town where the significant habitat is located.
QUADRANGLE: Name of the USGS 7.5 minute topographic map where the significant habitat is located.
LATITUDE: Latitude coordinate (degrees, minutes, seconds) for the location of the significant habitat.
LONGITUDE: Longitude coordinate for the location of the significant habitat.

United States Department of the Interior

FISH AND WILDLIFE SERVICE
3817 Luker Road
Cortland, NY 13045

U.S. Department of the Interior 1849•1999

June 15, 1999

JUN 18 1999

Ms. Sandra L. Collins
Senior Scientist
PBS&J
4201 North View Drive, Suite 302
Bowie, MD 20716

Dear Ms. Collins:

This responds to your letter of May 20, 1999, requesting information on the presence of Federally listed or proposed endangered or threatened species in the vicinity of the proposed public golf course at Ferry Point Park in the City of New York, Bronx County, New York.

The peregrine falcon (*Falco peregrinus*) is a Federally listed endangered species known to breed in the vicinity of the proposed project. This project's environmental documents should, therefore, include an evaluation of the potential direct, indirect, and cumulative effects of specific project-related activities on the peregrine falcon or its habitat, and include appropriate measures, if necessary, to protect this species and its habitat. When specific plans are identified, the plans and the results of the evaluation should be provided to this office to determine the need for further consultation pursuant to Section 7 of the Endangered Species Act of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.).

Except for the peregrine falcon, and occasional transient individuals, no other Federally listed or proposed endangered or threatened species under our jurisdiction are known to exist in the project impact area. Should project plans change, or if additional information on listed or proposed species becomes available, this determination may be reconsidered. A compilation of Federally listed and proposed endangered and threatened species in New York is enclosed for your information.

The above comments pertaining to endangered species under our jurisdiction are provided pursuant to the Endangered Species Act. This response does not preclude additional U.S. Fish and Wildlife Service (Service) comments under the Fish and Wildlife Coordination Act or other legislation.

This species is also listed as endangered by the New York State Department of Environmental Conservation (State). Project plans and the results of the evaluation discussed above should be coordinated with both this office and with the State. The State contact for the peregrine falcon is Mr. Peter Nye, Endangered Species Unit, Wildlife Resources Center, Delmar, NY 12054-9767 (telephone: [518] 439-7635).

Federally listed endangered and threatened marine species may be found near the project area. These species are under the jurisdiction of the National Marine Fisheries Service. You should contact Mr. Stanley Gorski, Habitat and Protected Resources Division, Area Coordinator, National Marine Fisheries Service, James J. Howard Marine Sciences Laboratory, 74 Magruder Road, Highlands, NJ 07732, for additional information (telephone: [908] 872-3037).

For additional information on fish and wildlife resources or State-listed species, we suggest you contact:

New York State Department
of Environmental Conservation
Region 2
47-40 21st Street
Long Island City, NY 11101
(718) 482-4900

New York State Department
of Environmental Conservation
Wildlife Resources Center - Information Services
New York Natural Heritage Program
700 Troy-Schenectady Road
Latham, NY 12110-2400
(518) 783-3932

National Wetlands Inventory (NWI) maps may or may not be available for the project area. However, while the NWI maps are reasonably accurate, they should not be used in lieu of field surveys for determining the presence of wetlands or delineating wetland boundaries for Federal regulatory purposes. Copies of specific NWI maps can be obtained from:

Cornell Institute for Resource Information Systems
302 Rice Hall
Cornell University
Ithaca, NY 14853
(607) 255-4864

Work in certain waters and wetlands of the United States may require a permit from the U.S. Army Corps of Engineers (Corps). If a permit is required, in reviewing the application pursuant to the Fish and Wildlife Coordination Act, the Service may concur, with or without stipulations, or recommend denial of the permit depending upon the potential adverse impacts on fish and wildlife resources associated with project implementation. The need for a Corps permit may be determined by contacting Mr. Joseph Seebode, Chief, Regulatory Branch, U.S. Army Corps of Engineers, 26 Federal Plaza, New York, NY 10278 (telephone: [212] 264-3996).

If you require additional information please contact Michael Stoll at (607) 753-9334.

Sincerely,

Mark W. Clough
ACTING FOR

David A. Stilwell
Acting Field Supervisor

Enclosure

cc: NYSDEC, Long Island City, NY (Environmental Permits)
NYSDEC, Latham, NY
NYSDEC, Delmar, NY (Attn: P. Nye)
NMFS, Highlands, NJ (Attn: S. Gorski)
NMFS, Milford, CT (Attn: M. Ludwig)
EPA, Div. of Environmental Planning & Protection, New York, NY
COE, New York, NY

FEDERALLY LISTED AND PROPOSED ENDANGERED AND THREATENED SPECIES IN NEW YORK

Common Name	Scientific Name	Status	Distribution
FISHES			
Sturgeon, shortnose*	*Acipenser brevirostrum*	E	Hudson River & other Atlantic coastal rivers
REPTILES			
Turtle, bog	*Clemmys muhlenbergii*	T	Albany, Columbia, Dutchess, Genesee, Orange, Oswego, Putnam, Seneca, Ulster, Wayne, and Westchester Counties
Turtle, green*	*Chelonia mydas*	T	Oceanic summer visitor coastal waters
Turtle, hawksbill*	*Eretmochelys imbricata*	E	Oceanic summer visitor coastal waters
Turtle, leatherback*	*Dermochelys coriacea*	E	Oceanic summer resident coastal waters
Turtle, loggerhead*	*Caretta caretta*	T	Oceanic summer resident coastal waters
Turtle, Atlantic ridley*	*Lepidochelys kempii*	E	Oceanic summer resident coastal waters
BIRDS			
Eagle, bald	*Haliaeetus leucocephalus*	T	Entire state
Falcon, peregrine	*Falco peregrinus*	E	Entire state - re-establishment to former breeding range in progress
Plover, piping	*Charadrius melodus*	E T	Great Lakes Watershed Remainder of coastal New York
Tern, roseate	*Sterna dougallii dougallii*	E	Southeastern coastal portions of state
MAMMALS			
Bat, Indiana	*Myotis sodalis*	E	Entire state
Cougar, eastern	*Felis concolor couguar*	E	Entire state - probably extinct
Whale, blue*	*Balaenoptera musculus*	E	Oceanic
Whale, finback*	*Balaenoptera physalus*	E	Oceanic
Whale, humpback*	*Megaptera novaeangliae*	E	Oceanic
Whale, right*	*Eubalaena glacialis*	E	Oceanic
Whale, sei*	*Balaenoptera borealis*	E	Oceanic
Whale, sperm*	*Physeter catodon*	E	Oceanic
MOLLUSKS			
Snail, Chittenango ovate amber	*Succinea chittenangoensis*	T	Madison County
Mussel, dwarf wedge	*Alasmidonta heterodon*	E	Orange County - lower Neversink River

* Except for sea turtle nesting habitat, principal responsibility for these species is vested with the National Marine Fisheries Service.

Attachment F: Turf Management

A. INTRODUCTION

The New York City Department of Parks and Recreation (DPR) has proposed to develop a public recreation facility, which includes a comprehensive golf facility, at the eastern portion of Ferry Point Park in the Bronx. The site is approximately 220 acres, and the golf facility will occupy approximately 195.5 acres. The site is at the north end of the Bronx-Whitestone Bridge and is mostly undeveloped and is underused. However, it is mapped parkland, and prime waterfront property with spectacular views of the Bronx-Whitestone Bridge, the Throgs Neck Bridge, the East River, and Manhattan.

The proposed public recreation facility includes a Jack Nicklaus-designed 18-hole golf course, a state-of-the-art Golden Bear Golf Center (including a driving range, chipping area, putting greens, etc.), a clubhouse building, boathouse grill restaurant, fine dining/banquet facility, waterfront park, community park, and maintenance building. Environmental & Turf Services Inc. (ETS) has been retained to develop a turf management program that has the goal of not significantly adversely affecting the environment (i.e., the turf chemicals will not negatively impact water quality and/or ecology), and a risk assessment whose results will be used to improve the management and/or the course design. Risk assessment is the process of carefully integrating turf chemical toxicity information with site-specific data relevant to exposure to potentially sensitive organisms. Specifically, the objectives of this study are as follows:

- Develop a state-of-the-art Integrated Golf Course Management Plan (IGCMP) for the golf course (see appendix to this attachment);
- Complete a risk assessment to evaluate the potential impacts of the proposed turf chemicals on surface water quality and the environment; and
- Use the results of the risk assessment to incorporate improvements into the management plan and/or the site design to protect water quality. This is the risk management phase. The submitted plans have the flexibility to include any of the future recommendations deriving from the risk assessment.

B. INTEGRATED GOLF COURSE MANAGEMENT PLAN (IGCMP)

The appendix to this attachment contains the proposed IGCMP. The IGCMP is based on the latest principles of integrated pest management (IPM). Its basic philosophy can be expressed as follows: one minimizes the need for pesticides by growing turf quickly and keeping it healthy; the general focus is on controlling pests rather than eradicating them; and there are a wide range of techniques that can be applied to prevent and minimize pest damage. Following are some key illustrations of this holistic approach toward IPM and the judicious use of pesticides.

First, the IGCMP establishes pest infestation thresholds for application of mechanical, biological, cultural, and chemical methods of pest control (e.g., insecticides are not recommended for control of Japanese beetle grubs in fairways until their density equals or exceeds 8/square foot).

Second, much of the course area will be planted with bluegrass and turf-type fescues. This grass mix should reduce the need for fungicides and—to a more limited extent—insecticides and herbicides relative to many other possible turf varieties.

Third, proper use of fertilizers can reduce the use of pesticides. The nutrient potassium, for example, is used to strengthen the cell walls of the bentgrass in greens and tees, thereby potentially reducing the turf's susceptibility to disease, and the need for pesticides.

The IGCMP identified 46 weeds, 25 diseases, and 16 insect turf pests that are known to occur naturally in the New York/New Jersey metropolitan area. However, only 16 of these pests have been identified as "key" pests. Thirty-five pesticides have been identified for possible use against these pests during the first 5 years of golf course operation in a "worst case" scenario. Twenty-one pesticides will likely be needed sometime during the first 5 years if the proposed IPM program is adequately effective, and the actual number of pesticides used in any one year will likely be less than 12. These lists include several commercially available organic-based products. New organic products demonstrated to be safe and effective on cool season turfgrasses will be incorporated into the program as they become available.

C. RISK ASSESSMENT AND MANAGEMENT

The risk assessment work is a three step process: the site visit and the gathering of relevant data; the evaluation of potential risks using conservative (protective) methods; and the identification of measures to be implemented if the analysis results reveal contaminants with the potential for significant adverse environmental effects. The plan is described in more detail below.

The site visit included observation of the existing drainage patterns and vegetation covers. Soil was sampled and analyzed for parameters relevant to pesticide and water retention. Other data were gathered and evaluated (e.g., intense rainstorm recurrence data and pesticide sorption properties). Lifetime drinking water Health Advisory Levels and Maximum Allowable Concentrations for aquatic organisms are also calculated during this phase.

The second step is the risk assessment. The procedure to be used is called the "dilution calculations" that have been successfully used in several other states including golf course projects in Pebble Beach, California and Fairfield, Connecticut. For the stormwater runoff risk assessment, the project area watershed will be divided into seven drainage basins (see Attachment I, "Infrastructure," Section 6.0, "Drainage"). The runoff curve number approach will be used to estimate runoff volumes following 2-year, 24-hour, and 10 year-return, 24- hour rain events (3.2 and 5 inches, respectively). Pesticide losses ranging from 0.5 percent to 5.0 percent will be "mixed" into the runoff drainage into the East River after passing through a number of best management practices (BMPs), including wet ponds and storm water detention facilities designed into the golf course. Potential impacts on aquatic organisms and the environment will be assessed.

The potential for pesticides to leach to the subsurface and discharge in interflow above the soil cap will also be assessed. The Attenuation Factor method will be used to estimate the fraction of pesticide lost below the root zone. This mass estimate will be "mixed" with the projected stormwater runoff to assess the overall potential for significant adverse impacts on the East River.

Risk management is the final phase. Any potential turf chemical impacts on environmental quality will be addressed by modifying the draft management plan, and/or the golf course design, as appropriate. The following protective measures/design improvements will be considered for incorporation into the site plan as appropriate. Such measures include:

- Turf Management. Concern about a limited number of pesticides may be addressed by using alternative pesticides and/or by restricting application methods or areas. Concerns about a larger number of pesticides may be addressed by the establishment of special management zones. Any turf management recommendations will be incorporated into the final IGCMP (see the section following this introduction).

- Civil Engineering/Drainage Plan. A comprehensive drainage plan is being developed with wet and dry detention to polish the quality of stormwater runoff before it reaches the East River. Additional areas of the course have also been designated (e.g., areas around the tee complexes) that can be planted with naturalized vegetation and that would receive stormwater runoff if the risk assessment indicates the need.

  If necessary, runoff collected in the numerous shallow drains throughout the course may also be pumped to certain detention ponds to ensure longer treatment. The overall expected average holding times in these areas is approximately 2 days. There are three ways this relatively long detention time can help improve runoff water quality before discharge to the East River. It removes sediments and the nitrogen, phosphorus, and pesticides bound to the sediments, and provides a medium to encourage microbial degradation of pesticides.

  Other options being considered are construction of grassy swales and percolation areas. The latter are locations that would contain a greens-type mix with a vegetated surface. Runoff would be conducted onto the surface. ❖

Ferry Point Park

Integrated Golf Course Management Plan

Prepared By:

Environmental & Turf Services, Inc.
11141 Georgia Ave., Suite 208
Wheaton, MD 20902

June 20, 1999
Revised July 23, 1999

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Executive Summary

i.1 Tasks and Focus

This document, the Ferry Point Park Integrated Golf Course Management Plan (IGCMP), is a guide for the maintenance and operation of the Ferry Point Park Golf Course, an 18-hole course proposed as part of a mixed recreational development on prime waterfront property in the Borough of the Bronx.

The IGCMP represents a commitment by Ferry Point Partners, its professional golf course staff and its owners, to follow Best Management Practices in order to maintain an environmentally sensitive golf course, with a focus on preserving water quality. It is a guide for maintenance and operations to be followed during "grow-in" and long-term maintenance of the golf course. The IGCMP should be utilized in concurrence with other documents regarding the design, grading and construction of the golf course and appropriate practices for reducing potential environmental impacts.

i.2 Best Management Practices and Integrated Pest Management

The Best Management Practices (BMPs) and Integrated Pest Management (IPM) strategies described have been shown to greatly reduce the use of fertilizers and pesticides. The primary means of controlling pests is biological, through growing turf under conditions that allow it to withstand pest attacks without chemical intervention. Chemicals are employed only if other cultural practices have failed to provide adequate controls, and then in minimal amounts. Some fungus diseases are ubiquitous and form the exception, requiring routine seasonal treatment irrespective of damage.

The Best Management Practices and Integrated Pest Management strategies described herein have been used successfully by more than 70 golf courses in varying climates around the world to reduce chemical use. A number of strategies contribute to this result:

- Selection of appropriate grasses to create a healthy sod capable of combating most pest infestations through biological means without chemical intervention. The grass types proposed in this report offer excellent adaptability and hardiness and emulate existing vegetation currently found on the site. The turf-type fine fescues offer excellent flexibility for managing turfgrass pests and will perform extremely well under the climate encountered on coastal New York;

- Establishment of tolerance levels for most pests, as opposed to eradication. No action is taken unless an infestation exceeds a stipulated threshold;

- Reliance on environmental and mechanical controls. For example, avoiding aerifier holes during moth egg-laying season can deny entry to armyworm *(Pseudaletia unipuncta)* and black cutworm *(Agrotis ipsilon)* larvae. Avoidance of phosphorus and potassium deficiencies can prevent or minimize the occurrence of take-all patch *(Gaeumannomyces graminis)* fungus disease;

- Understanding pest life cycles so that chemicals are applied when they will have maximum efficacy with minimal applications;

- Spot application of chemicals only as necessary;

- Installation of computerized sprinkler systems managed to replace water only as it evaporates or is absorbed by plants. This is the single most important strategy for reducing water consumption and eliminating surface run-off and leaching of chemicals into groundwater flows, while preventing fungus infections associated with damp conditions. In practice, 80% efficiency in matching evapotranspiration is achievable with advanced irrigation systems.

- Reduction of turf areas requiring a high level of maintenance. The irrigated turfgrass areas in this IGCMP consist of 47 acres of greens, tees and fairways, 11 acres of lakes where water levels will need to be maintained, and 71.3 acres of roughs that will receive irrigation primarily during the grow-in period.

The IGCMP for Ferry Point Park Golf Course voluntarily goes beyond traditional regulatory compliance levels. The New York State Cooperative Extension Service and the New York State Department of Agriculture will be consulted periodically about biological, parasitic or predator controls that could further reduce the use of chemical treatment.

On the strength of these and many other BMPs, the proposed Ferry Point Park Golf Course, even with maximum anticipated chemical usage (the "worst case scenario"), is not expected to have a significant adverse impact on groundwater or surface water.

i.3 The Environmental Principles for Golf Courses in the United States

The IGCMP describes a set of voluntary principles that seek to produce environmental excellence in golf course planning and siting, design, construction, maintenance and facility operations. This document recognizes that both the principles and guidelines deliver solid environmental and sustainable ecological approaches for the golf course. The guidelines assume the project will go beyond traditional regulatory compliance. Most significantly, the principles promote environmentally sound golf courses as quality golf courses.

The project agrees to abide by and implement the recommendations contained within this IGCMP. The owners are committed to following the principles attached because of the project's goals of maintaining environmental stewardship and quality. Ultimately, this will result in a much improved landscape, more public recreational opportunities, an estimated 345 permanent jobs, and revenues for the Borough of the Bronx .

i.4 Turf Management

The IGCMP describes how IPM will be used during the grow-in, development, and management periods of the golf course. Existing golf course superintendents were queried about fertilizer and irrigation practices and pest-related problems relative to the differing grass types and micro-climates that exist in and near coastal New York. ETS has identified the key pests and/or specific turf related diseases, weeds, and insects that will occur naturally. The IGCMP identifies 46 weeds, 25 diseases, and

16 insect turf pests that are known to occur in the New York/New Jersey metropolitan area. Seventeen of these are identified as key pests (seven weeds, six diseases, and four insects). Thirty-five pesticides have been identified for possible use against these 87 pests in the first five years of golf course operation in a worst case pest infestation scenario but only 21 pesticides may be needed if the IPM program is reasonably effective. We expect these pests to be the more significant issues facing the project during the early stages of development and we have developed a more likely use scenario of turfgrass chemicals illustrated on Table 29 in section V of this attachment.

i.5 Pesticide Spill and Response Plan

In the event that a minor pesticide spill or leak resulting from the hoses or nozzles of the turfgrass sprayer is discovered, the equipment will cease to operate immediately. All safety containment valves will be closed and the emergency spill prevention materials (absorbent cloth designed to capture liquid materials) will be utilized to absorb spilled concentrations of pesticides or fertilizers that remain on or near the turfgrass sprayer. In the event that a leak has been discovered within the sprayer or tank itself, an auxiliary tank will be used as a transfer station to collect the remaining concentrations of chemical or fertilizer. For all areas outside of the buffer zones, the amount of spilled material will be allowed to drain in the crown and thatch layers of turfgrass. For those areas inside sensitive zones, should such a spill occur, the golf course staff will apply activated charcoal and detoxifying absorbent materials to neutralize and stabilize the spill.

A written discharge response plan will be part of the training provided to each employee at the golf course. The plan will conform to all applicable sections as defined by law. A copy of this plan will be readily available. The Police and Fire Departments will be notified that this document has been completed. The local Fire Department will be provided with a current copy of all chemicals and pesticides stored in the pesticide storage area. The Material Safety Data Sheets (MSDS) will be provided for each compound in the storage area. In the case of minimal discharge, employees will have the necessary protective equipment and clothing readily available. All hazardous materials will be disposed of through a licensed hazardous waste disposal firm.

i.6 Maintenance Facility

The maintenance and storage facility will conform to the appropriate City building codes for bulk storage and hazardous waste. The Fire Department will be supplied with a copy of the floorplan and will be provided a copy of the access security code. The facility will be landscaped and designed to conform and blend with the rest of the project. An all-weather access road shall serve the maintenance building and provide emergency and service vehicle access.

In addition to storing golf course equipment, maintenance facilities are designed, developed, and installed as comprehensive integrated systems offering safety in the storage and handling of fertilizer and pesticide materials. Modern golf course facilities prove themselves in several ways, such as increased employee safety, reduced insurance rate growth, eliminated or significantly reduced costs and liability of both storage and disposal of waste residue, and ease and affordability of maintenance. The facility's design will have a significant impact on efficiency, annual maintenance spending and, ultimately, the quality of the golf course.

i.7 Water Replacement Strategy

Increased irrigation will be necessary during the germination period and to successfully assist with quality control during the reestablishment process. After the establishment period, the proposed grassing plan will allow for a reasonable reduction in supplemental irrigation and provide excellent playing surfaces even in areas grown under droughty conditions. The maximum usage or peak water demand during the grow-in period is estimated at 612,400 gallons/day (gpd). This use rate would only be achieved if all 18 holes are grown-in simultaneously. Once the turf is established, the maximum usage is estimated at 408,267 gpd. This number was derived using the methods that form the basis for Table 31. Irrigation water will be supplied by the New York City water system, as is the case with other New York City Parks Department facilities.

i.8 Summary

The IGCMP was developed based on the philosophy that the growth and maintenance of healthy turf will minimize the need for pesticides. The IGCMP has been developed for the grow-in, development and management period of the golf course, and offers a maintenance and conservation program suitable for protecting the environmental resources of the project.

It is intended to fulfill several functions:

- Adopt the principles of Golf & The Environment, Environmental Principles for Golf Courses (1996), the first product of a continuous dialogue among environmental and industry leaders managed by the Center for Resource Management, and Golf Course Superintendents' Association of America;

- Illustrate how Best Management Practices (BMPs) can be used during the design, construction and maintenance of the golf course;

- Restrict the planting of inappropriate species on the site and identify applicable Best Management Practices (BMP's) or source controls as Pre-design for Natural Resources Inventory and Evaluation. This is a source control for water quality enhancement through the use of Best Management Practices;

- Understand the differences between managing fertile soils with turf-type grasses and infertile soil complexes with graminoids, native plants and woody species. Identify where and how landscape design elements of the project may be supplemented, modified and/or better-focused to increase wildlife and ecological benefits of the overall project;

- Detail the management techniques and frequency of maintenance required for each of the proposed turfgrass and landscape types;

- Demonstrate a detailed plan for operating and maintaining the Ferry Point Park Golf Course in a safe, effective, and environmentally responsible manner;

- Use natural resources efficiently. Offer site-specific recommendations to the golf course on methods of designing and growing-in the golf course to reduce the need for pesticides and to minimize the impacts of management;

- Present alternative methods using Best Management Practices (BMPs) that will customize the IGCMP near special management zones, thus, reducing traditional forms of turfgrass chemical control;

- Provide a source of information to the golf course superintendent regarding current pest prevention controls and establish base line pest thresholds in accordance with IPM principles;

- Educate the reader on the basic concepts of Integrated Pest Management (IPM) and explain how these concepts will be put into practice within the scope of an Integrated Golf Course Management Plan (IGCMP); and

- Document outstanding development and management practices. Promote the understanding that environmentally sound golf courses are quality golf courses.

Ferry Point Park IGCMP

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Chapter I

Project Overview and Site Description

1.1 Project Overview

The objective of the Ferry Point Park project is to transform an underutilized, potentially valuable parcel of property into a recreational development site for the residents of the Bronx Borough. The project proposes to rehabilitate a parcel of property along the East River which has reportedly been used as a sanitary landfill. Extreme caution is being utilized by the project development team to determine the potential hazards associated with the property and fill. Once the soil material is determined acceptable for building, the neglected site will receive a much needed face lift and become a world class public recreational urban park with a Jack Nicklaus design 18 hole golf course, state-of-the-art Golden Bear Golf Center driving range and teaching facility, and a white table cloth restaurant and catering facility, clubhouse, community waterfront park and community park.

This plan is designed to offer site-specific guidance to assist the golf course with a successful grow-in period and to provide sustainable long-term reductions in costs. Protocols are presented for managing existing, created and restored habitats. This document addresses potential risks to ground and surface water quality, and outlines feasible measures for reducing chemical use to levels which will not degrade water quality.

While aspects of the golf course design are conceptual pending final engineering design, the principles and obligations described in this IGCMP represent firm commitments. All final materials and procedures adopted, and final plans and construction drawings produced by the golf course architect and engineers will adhere to the principles presented herein.

This IGCMP adopts the principles from *Golf & The Environment, Environmental Principles for Golf Courses* (1996), the first product of a continuous dialogue among environmental and industry leaders (1995-present). *Golf and the Environment* is managed by the Center for Resource Management, and Golf Course Superintendents' Association of America.

1.2 Golf Course Description

The 18 hole golf course is being designed by Jack Nicklaus to accommodate players with varying skill levels. The site has striking views of the Whitestone and Throgs Neck bridges as well as the Manhattan skyline. In addition to architectural views, natural water and vegetation will be interspersed with the golf holes to produce a truly aesthetically pleasing experience for the players. The numerous views of Long Island Sound, the New York City skyline and natural habitats will be emphasized throughout the course in this challenging design. Vegetative buffers will be used to emphasize holes and provide a barrier to adjacent park uses.

Topography varies from low points along the East River and increases about 40 feet with gradual elevation changes. The par 72 course covers approximately 7000 yards from the championship tees and 5500 yards from the forward tees.

A site plan for the overall development is attached. This site plan shows irrigated turfgrass areas, and golf course amenities. Additional golf course details will be provided in the golf course routing plan figure.

1.3 Soils

On-site soil sampling was performed for the proposed project. For a more detailed discussion of site soil conditions, see Attachment G, "Hazardous Materials."

1.4 Water Use Issues

1.4.1 Water Supply and Storage Analysis

Increased irrigation will be necessary during the germination period and to successfully assist with quality control during the reestablishment process. After the establishment period, the proposed grassing plan will allow for a reasonable reduction in supplemental irrigation and provide excellent playing surfaces, even in areas grown under droughty conditions. The maximum usage or peak water demand during the grow-in period is estimated at 612,400 gallons/day (gpd). This use rate would only be achieved if all 18 holes are grown-in simultaneously. Once the turf is established, the maximum usage is estimated at 408,627 gpd. This number was derived using the methods that form the basis for Table 31.

1.4.2 Irritation System Specification and Capabilities

The golf course will install a computer controlled irrigation system to minimize over watering. The irrigation system will be a state-of-the-art (Toro® or RainBird® Maxi) linked to a DTN Weather Center Computer and Lightning Prediction System. The system will be engineered to water the entire golf course each night (unless raining) and to supply a minimum of 1" of water per week or as needed to meet turf demand.

The irrigation system will include an on-site weather station (in addition to remote wind, temperature and rain sensors) to track temperature, relative humidity, solar radiation, wind direction and speed, and precipitation. This data is read by the central computer, which computes local evapotranspiration and then adjusts the run time for each individually controlled sprinkler head to exactly match the evapotranspiration loss on a day-to-day basis. Soil moisture probes will be installed as needed to assure proper irrigation of various management areas.

The goal of computerized irrigation is to apply water at a rate which very closely matches evapotranspiration losses of the turf. By not adding water in excess of turf requirements, irrigation runoff or oversaturation and leaching can be avoided. In practice, 80% or higher efficiency in meeting this goal is achievable as opposed to 50% efficiency with conventional quick-couple systems.

The spacing of sprinklers will be designed to minimize surface runoff and avoid inadvertent drift. Field controls will be placed for maximum visibility. Valve-in-head sprinklers will be used with individual control wires linking each of the irrigation heads back to the field controllers. Heads on fairways and roughs can be paired at the controller on an average of two heads per station. Green and tee sprinkler heads will be operated individually. Greens will be irrigated with full and/or part-circle sprinkler heads to allow the superintendent to irrigate in a more efficient manner. This reduces disease potential and results in lower usage of pesticides. Quick coupler snap valves will be installed near native plant restoration areas to provide supplemental water during grow-in.

Irrigation will be limited to tees, greens, fairways, a portion of the driving range, and the primary roughs immediately adjacent to the fairways. Total irrigated area involves 47 acres of managed turf and 71.3 acres of rough. The final estimated water demand for the proposed irrigation uses is 45 million gallons per year.

1.4.3 Treated Wastewater

City water will be used for irrigation of the golf course. No reclaimed water will be used for irrigation.

1.5 Vegetation and Habitat

Native plant communities including riparian habitat and wetlands will be catalogued and mapped by regional biologists. No records or evidence of endangered, threatened, or sensitive plants have been found in the disturbed areas of the golf course as of this date.

Care has been taken in the design of the golf course to protect wetlands with significant setbacks. The golf course was arranged to improve upon the existing landscape, with significant views of the river, architectural structures and skyline. Wherever possible, the design will leave existing plant communities and vegetation in place and create roughs and buffers that require little or no supplemental water or fertilizer, and which are attractive in unmown conditions.

1.6 Wildlife

Designated wildlife habitats will not be altered by construction or normal maintenance. In addition, plant species have been chosen for the restored areas that will provide wildlife benefits such as cover or edible fruits and berries, and that create natural roosting and feeding grounds for birds outside the developed areas.

In order to assist the golf course maintenance department in addressing potential impacts from residential geese populations, we recommend considering the benefits of utilizing border collies to minimize damage that may result from uncontrolled populations. Border collies have proven to be the most efficient way in deterring geese without harm from grazing on the golf course.

1.7 Mitigation of Impacts During Construction

Ferry Point Park Golf Course will implement the following provisions prior to and during construction of the golf course:

- Install protective fencing and define areas of existing vegetation that should not be disturbed;
- Establish designated sediment/erosion control infiltration areas to protect surface water features (see drainage plan attached);
- Install temporary seeding or matting, silt fencing, hay bales, and filter fabric as necessary for erosion and sediment control until permanent vegetation is complete;
- Establish shoulders to direct surface runoff into the existing soils and undisturbed portions of the secondary roughs;
- Install fencing and silt barriers (filter fabric or straw bales) to identify construction circulation corridors through otherwise undisturbed areas within the golf course;
- Ensure that contractors comply with regulations and any special requirements outlined in the Final Development Plan;
- Stabilize material not used as fill for topsoil, seeding and sodding;
- Designate construction equipment and employee access entrance(s);
- Designate staging areas that minimally disturb existing vegetation for: employee parking, equipment parking, maintenance and fuel compound, storage of construction materials, (sand, gravel, irrigation materials, etc.), and construction management offices and restrooms; and
- Provide list of equipment to be used on site throughout construction.

1.8 Sediment and Erosion Controls

Sediment and erosion control systems will be described as part of the overall application. These drainage safeguards or biofilters are designed to protect water quality and will be engineered as part of a comprehensive erosion control plan. They are easily implemented, affordable and can provide effective filtration for drainage or leachate. Many of the recommendations by the U.S. Department of Agriculture, Natural Resource Conservation Service (NRCS), can be adapted for turfgrass use (Bottcher and Baldwin, 1986). The NRCS defines these areas within the following categories:

Wet Biofilters:

Regulated runoff impoundment - Detention with associated filtration through plant material within the basin prior to discharge. This is used to reduce runoff quantity and nutrient and pesticide discharge.

Infiltration Adsorption Areas:
Land Absorption Areas - An adequate land absorption area is provided for drainage or runoff of turf and impervious surfaces so that soil and plants absorb nutrients. This is part of the drainage plan, contour plan and water quality protection strategy attached with this IGCMP.

Subsurface Drainage - Infiltrated surface water, primarily from greens, will be filtered through existing soils and vegetative material.

Dry Biofilters:

Supplemental Buffer Planting Area - Planting vegetation to stabilize the soil and reduce erosion and runoff.

Grassed Outlets - A natural or constructed outlet is maintained with vegetative cover in order to prevent soil erosion and filter nutrients. Dry ponds and golf course fairways serve in this capacity.

If runoff occurs, it will be directed away from sensitive areas (the East River, shallow groundwater areas, wetlands, etc.) and into areas where infiltration can occur. The golf course drainage will optimize the removal of runoff from the playing surfaces while not causing a drainage problem on hydrologically connected areas. Slopes will be maintained within an average of 3 to 6 percent to allow the golf course to be playable while maintaining positive drainage.

1.9 Drainage

Drainage and Routing Plan maps will be used to detail specific golf course construction and grading documents for the drainage management plan. The drainage management plan will include the topsoil management plan, temporary sediment and erosion control plans, site specific drainage plan typicals, cut and fill plans, and supplemental lake construction details.

1.10 Water Features

During the construction phase and as part of the golf course design, Ferry Point Park Golf Course will incorporate approximately 11 acres of lakes and water features into the course layout. Views of Long Island Sound and the city sky-line will be interspersed with lakes and vegetation. A public waterfront park will be developed along the East River frontage and viewable from different areas of the course (Ferry Point Park Partners, 1997).

1.11 Golf Course Design

The Ferry Point Park Golf Course and Driving Range will be designed by Jack Nicklaus. The golf course elevation varies from 10 feet above sea level along the East River to 40 feet above sea level at the interior of the site. The 18 hole, par 72 course will offer both accessible golf to novice players and a challenging course for more advanced players. It has been designed to test the skill of the player while

providing stunning views of the architectural structures in the area and the natural beauty of Long Island Sound.

1.12 Duration of Project

The Ferry Point Park Golf Course is expected to be built over approximately 30 months in conjunction with the waterfront park, restaurant and other facilities associated with the overall project.

Chapter II

Best Management Practices and Integrated Pest Management

The Integrated Pest Management Strategy was developed by Environmental & Turf Services, Inc. It includes specific tolerance levels for each pest and specific remedies, including types and quantities of all chemical and other mitigation measures to be taken.

Some aspects of the Best Management Practices followed at Ferry Point Park Golf Course and the Integrated Pest Management strategies described in this document may change over time as improved management strategies are developed and new chemical products become available with lower toxicity, greater specificity, less persistence or less mobility. In these cases, the philosophy and goals described in this chapter will govern the adoption of the new methods. No changes will be made in the chemicals presented unless approved by the appropriate state and local agencies.

2.1 Legal Requirement of Best Management Practices

In the late 1970's and early 1980's, the U.S. Environmental Protection Agency (EPA) began to recognize the impacts of non-point source pollution on environmental quality. Congress responded by enacting legislation that required implementation of Best Management Practices (BMPs) by States and specific industries throughout the country. As the resulting Clean Water Act (CWA) regulations evolved, the EPA established a set of processes or procedures intended to better address non-point sources of pollution. Non-point source (NPS) pollution was not defined within the CWA; the EPA subsequently adopted regulatory definitions of NPS pollution as contamination caused by diffuse sources that are not regulated as point sources. These sources are typically associated with agricultural or silvicultural activities, runoff from construction activities and/or urban runoff.

Non-point source pollution does not result from a discharge at a specific location such as a single pipe but generally arises from land runoff, precipitation, atmospheric deposition, or percolation (Environmental Law and Policy, 1994). The EPA Office of Water Regulations and Standards' list of primary NPS pollutants includes nutrients, chemical fertilizers and pesticides, man-enhanced sediments, suspended solids, bacteria and microbial pollutants, oil and salts from roadways, and runoff from industrial and commercial sites. Sedimentation and sediment transport of other pollutants has been documented by EPA as the main source of non-point source pollution in the continental United States (1987 Water Quality Act:Section 208 Revised).

The EPA originally required area-wide waste treatment plans (Sect. 208 CWA, 1972) which eventually resulted in the demand for the creation of Best Management Practices to address non-point source pollution. According to EPA's definition, a BMP can be a structural measure, a process-based measure, or a combination of the two. In CWA 319, the states were further required to include methods of identifying BMPs and the inclusion of proposed BMP measures to reduce NPS pollution in assessment reports.

This section added the requirement that BMPs address ground water impacts as well as surface water concerns. Since 1987, EPA has recognized BMPs as an integral component of pollution prevention plans regardless of the environmental media involved.

2.2 Integrated Pest Management (IPM)

Integrated Pest Management (IPM) is an interdisciplinary program that considers the merits of predominant pest control tactics and incorporates them into a single system to prevent unacceptable levels of pest damage. The control methods are designed not to eradicate pest populations, but to economically manage them while minimizing possible effects on people, property and the environment caused by the mitigation steps taken.

IPM is a decision-making process for pest prevention and control. It does not eliminate the use of pesticides; rather it limits their use to appropriate amounts and to occasions only after other measures of control have been considered and applied. IPM provides flexibility that enhances environmental and economic factors while reducing the reliance on chemical controls.

IPM focuses attention on conducting and monitoring soil nutrition, making it possible to apply specific fertilizers during periods of maximum plant uptake. Soils analyses and plant tissue sampling results are often compared with the irrigation water quality results, helping to minimize the potential for sodium build-up in soils. This practice helps to reduce reliance on synthetic fertilizers and establishes an effective program for choosing traditional and/or slow release organic fertilizer supplements with low burn or leaching potential.

The IPM system requires the monitoring of pest populations so that when pest pressure exceeds the action level, an appropriate treatment may be implemented. The treatment may be one of a variety of control measures and must be tailored for each tee, green, fairway and rough. This strategic method of pest management provides a form of risk reduction and environmental control.

IPM programs are innovative ways of decreasing management costs and obtaining a more balanced and effective means to control pests. They are secured by management combining new thought processes with existing turfgrass technology. An important point to remember is that an IPM program does not preclude pesticide use, but seeks to reduce dependency on pesticides. The objective of any IPM program is to reduce pest populations while keeping pesticide applications to a minimum (Erusha, 1995).

Effective IPM rests on four basic principles:

- Prevention seeks to keep pests from entering the crops in the first place, thus stopping the problems before they arise;
- Suppression attempts to reduce pests below the level at which they would be economically damaging;
- Tolerance strives to accept certain pests whose presence, however minimal, may prove beneficial; and
- Resistance stresses the effort to develop healthy, vigorous strains of crops that will be resistant to certain pests.

2.3 Formation of an IPM Business Plan for Ferry Point Park Golf Course

The golf course offers significant opportunities for managing various plant communities and will feature low maintenance and non-invasive turf-type grasses. The IGCMP has been developed to assist Ferry Point in managing the golf course in an environmentally responsible way. The plan establishes management programs for the finely managed turfgrass and outlines the qualities necessary for managing the riparian environments of the East River. The Golf Course Superintendent and professional staff will be provided with the following resources:

- Expertise to make informed choices for managing and enhancing the vegetative buffers with native plants, and written BMPs that ensure wetland preservation and reduction of river bank erosion;
- Access to consultants, including permaculturist and native plant specialists, who will assist with the IPM program and maximize the results during the grow-in period;
- Availability of local ecologists to help make informed choices concerning native plants and opportunities for wetland creation and riparian enhancement;
- Proper equipment and diagnostic tools for pest identification; and
- Sufficient staff time to consistently monitor each management unit (tee, green, fairway and rough).

2.4 Field Monitoring and Control Systems

Field monitoring systems will provide the basis for developing thresholds and determining if action will be necessary to control a pest. The monitoring system should be simple, accurate and part of the daily regimen for turfgrass management, requiring no more than two hours per day. Each member of the monitoring team must thoroughly understand the potential pest species, including its phenology or life cycle.

Before any organism can be identified as a pest, an understanding is necessary of the role that beneficial organisms play. For example, a secondary pathogen may be a pest under certain conditions but might also provide a beneficial role in other turfgrass situations. Examples include *anthracnose-Colletotrichum graminicola* and dollar spot- *Scierotinia homoeocarpa* fungus which may help to eliminate the grass pest *Poa annua* in Kentucky bluegrass turf, and the beneficial microscopic nematode *Steinernema carpocapsae* which attacks turfgrass larval insects.

The importance of the pest will be noted on a scouting form and include the biological, cultural, environmental and physical factors that affect the presence of the species. This documentation will aid in identifying areas prone to repeated outbreaks. For example, an excellent time to observe mycelium is prior to poling the dew from the playing surfaces. The visible detection of sclerotia is a good indication of the potential movement of the pathogen into the host biotic tissue.

Salt content, pH and nutrient levels must also be monitored and properly managed. Healthy turf can resist, outgrow and recover from some pest and disease pressures. For this reason, the observation team will

note any visual reduction in turfgrass quality. The information obtained by thorough turfgrass surface monitoring will provide site-specific history and quantify levels for disease, insect and weed occurrences.

Detailed point sampling (counting the number of insects) will measure the density of the pest population relative to the damage on the area of turfgrass. This information will be used to fine tune the pre-determined threshold action levels for each management unit such as tees or greens (for pest thresholds, see Chapter IV, Section 5).

Because pest presence is so weather dependent, observation of pest populations for several years is necessary to develop a useful history of pest occurrences. It is expected to require at least three years to develop a comprehensive base-line of pest occurrence and thresholds of allowable pest damage. This site specific data base will be correlated with accumulated weather data to create a customized predictive planning tool. To assist the golf course superintendent in developing pest management strategies, the golf course will call upon regional and national turfgrass specialists in Integrated Pest Management as necessary, including the offices of the New York State Cooperative Extension Service and the New York State Department of Agriculture.

2.5 The Role of the Golf Course Superintendent

The Golf Course Superintendent has overall responsibility for implementing the IPM and BMP plan developed for Ferry Point Park Golf Course. He or she will see that a step-by-step plan is followed for measuring infestations and applying the most reasonable means to deal with potential pests.

The Golf Course Superintendents Association of America (GCSAA) was founded to professionally prepare future generations of golf course superintendents. The organization has assumed an environmental leadership role by offering Environmental Management continuing education programs. Superintendents who successfully complete the study requirements in a specialization receive a certificate from GCSAA. Ferry Point Park Golf Course will require the golf course superintendent to achieve GCSAA certification and focus on continuing education with IPM standards. Fewer than 25% of all active GCSAA members achieve certification and this requirement is intended to assure that Ferry Point's golf course superintendent is among the top ranked professionals in the field.

The Golf Course Superintendent will be assisted by qualified professional staff as required to maintain the course and equipment. Those who handle chemicals will obtain all certifications required by state or federal regulations. Collectively the Superintendent and staff will be responsible for:

- Definition of thresholds and appropriate responses for each management unit such as greens, tees, fairways, roughs and landscaped areas;
- Information gathering for both reporting purposes and refinement of future treatment regimes;
- Monitoring;
- Record keeping; and
- Treatment evaluation.

Chapter III

Turf Management and Non-Turf Areas

Integrated Pest Management starts with preparation of the golf course soils and the selection of grass cultivars optimized for the site. The growth of turf that is disease and pest resistant requires proper seeding and maintenance during the critical grow-in period, and an on-going program of soil testing and plant nutrition designed to meet the minimum needs of the turf while avoiding excessive or ill-timed applications of chemicals that would promote leaching into the water table.

3.1 Soils

Soil composition is the starting point for IPM at Ferry Point. Properly structured soil supports healthy turf that can crowd out undesired weeds during grow-in and fend off pest attacks with minimal chemical intervention. Soil composition also greatly influences the risks of ground water contamination from the transport of nutrients and/or pesticides.

Soils are comprised of a wide variety of mineral and organic complexes. Organics derived from decomposition of plant and animal matter are generally classified as humic and fulvic acids, and humin, based on their water solubility in terms of pH (MacCarthy et al., 1990). Both the organic matter and mineral complexes in soils function in cation exchange (CEC), pH buffering, and water retention. Though the organic component seldom is greater than 6% by dry weight of the soil, it contributes the most to each of these functions. A typical mineral fraction will have a CEC of 0.05 to 0.3 mol kg^{1} whereas the organic component will range from 1 to 2 mol kg^{1}, depending on the pH buffering.

These and other characteristics contribute to the benefits of organic matter in soils by providing slow-release sources of N, P, and K useful to plants and organisms, as well as buffering soil pH. Microbial activity and heat retention are improved with increasing levels of organic matter compounds. These benefits combine to create healthy root development through improved nutrient availability.

Water quality is enhanced by organics in soils which provide a mechanism of binding, water retention and microbial degradation. These characteristics minimize the risk of leaching (Stevenson and He, 1990). Research also supports the critical role of ambient humidity on the fate of organic pollutants (Chiou, 1990).

3.2 Turfgrass Selection

Greens, tees, and fairways are planted with grasses that meet the requirements of the game and that also lend themselves to being managed in an environmentally sensitive manner. These playing surfaces require a high level of maintenance because of the need for the turfgrass to resist and recover from damage incurred during play and from close and frequent mowing. It is important to establish appropriate turfgrass for each playing surface (greens, tees, fairways, roughs).

The following criteria were used for deciding the appropriate turfgrass species for Ferry Point Park Golf Course:

- Climatological and soil conditions of the site
- Desirability for golf in the playing & environmental setting
- Drought tolerance
- Resistance to disease and insects
- Resistance to annual grasses and weeds
- Establishment in sunny and shady environments
- Winter recovery and tolerance to snowmold conditions
- Compatibility with other grasses including forbs and sedges
- Irrigation water quality
- Availability of seed that is clean of harmful pests and grown in accordance with good turf growing practices
- Total dissolvable salts (TDS)
- Tolerance to high salt conditions

3.2.1. Turfgrass Options and Characteristics

The golf course will be seeded with the Princeville and PennLinks bentgrass on tees and greens. Bentgrass was chosen as the most resistant to disease, insects and mites. Fairways will consist of a mix of fescues and bluegrass. The turf-types depicted in this report will allow the playing surfaces of the golf course to be managed with programs designed to limit cultivar segregation and reduce the potential for non-natives to become invasive. We believe the turf-types chosen and the open space buffers provided by the primary and secondary turf-types will protect these environments.

Bentgrass (*Agrostis L.)* includes about 125 species, five of which are used as turfgrasses, including creeping bentgrass (*Agrostis palustris, A. stolonifera*), colonial bentgrass (*Agrostis capillaris*), dryland bentgrass (*Agrostis castellana*), velvet bentgrass (*Agrostis canina*), and Redtop (*Agrostis alba, A. gigantea*). All of these are used extensively in turfgrass with the exception of Redtop (Turgeon, 1991). Table 1 describes four potential varieties and the differences that exist with each turf-type listed. It is the intent of Ferry Point Park Golf Course to use the most highly advanced state-of-the-art grass types available and to establish these surfaces with certified seed only. The project will continue to monitor results of the nationwide testing program (NTEP) for turfgrass and will choose the most highly advanced turf-types for establishment and grow-in, including nursery sod production.

Table 1. Characteristics of Bentgrass Turfgrass

TURFGRASS SPECIES	OPTIMAL MOWING HEIGHTS	WEAR TOLERANCE	CHARACTERISTICS
Creeping bentgrass	1/8" to ½" New cultivars are more upright and require less nitrogen fertilizer. Best height for fairways is between 7/16" to 9/16".	Excellent May be used as a monostand or blended. New varieties are extremely aggressive against *Poa annua*.	Medium to dark green Excellent playing characteristics and recovery potential. Responds quickly to cultural practices.
Colonial bentgrass Introduced from Europe. Highland developed in US.	0.3" to 0.8" Tolerates close mowing heights. Similar environmental adaptation as creeping red fescue.	Adapts well in temperate-oceanic climates.	Dark bluish color. Adapts to infertile soils and drought conditions.
Velvet bentgrass Developed in Rhode Island	0.2"to 0.4" Forms very dense turfgrass but high cultural maintenance.	Restricted to temperate-oceanic climates.	High maintenance, limited availability.
Redtop	1.5" to 2" Coarse-textured, may be used as a nurse crop.	Does not respond to fertilizer or irrigation practices.	Found in grasslands.

The re-vegetation of the primary and secondary roughs using non-native fine-leafed fescues are ideally suited on sandy soils and areas grown under droughty conditions. During summer drought, the fine-leafed fescues, even in dormancy, provide an excellent lie for golf balls. Both chewings fescue and red fescue perform best under droughty, sandy soil conditions with minimal nitrogen fertilization levels (Beard, 1982). Most turfgrass species evolved and were introduced from the cool-humid areas around the North Sea in Eurasia. These species include the bentgrass, fescue, bluegrass and orchard grass (Hanson & Juska, 1969). Turfgrass species, like all living things, respond to the environment, each species having a definite tolerance limit for environmental factors. It is climate that largely determines whether a turf species is suitable to the site conditions, but soil factors within a given climatic zone determine the extent of adaptation for specific turfgrass (Ward, 1969). A substantial amount of turfgrass is grown on land that is subject to reconstruction, using soils not native to the site, recycled wastes, or other soil substitutes.

Kentucky Blue and Fescue Turfgrass

Kentucky bluegrass (*Poa pratensis L.)* is a cool-season turfgrass with excellent recovery and wear qualities suitable for climatic conditions along the New York shore. Kentucky bluegrass provides very good pest resistance, contains performance standards that work well under different management programs such as the round management proposed for Ferry Point Park.

The most important characteristic of Kentucky bluegrass is that it produces rhizomes (underground creeping stems). The rhizomes produce a tightly knit sod that binds soil and creates sufficient crown surface area to recuperate from wear and droughty conditions. Thus, with limited thatch build up and proper mowing heights, Kentucky bluegrass will become more tolerant of cold winters and will outperform ryegrass and fescue. Prior to 1970, few Kentucky bluegrass cultivars were adapted to the close mowing height required on golf course fairways. More recently, a number of improved cultivars have been released which can be used in blends for best overall performance (Beard, 1982). Cultivars adapted to moderate cultural intensities include A-20, Adelphi, Baron, Bonnieblue, Cheri, Eclipse, Enmundi, Glade, Majestic, Parade, Rugby and Victa.

There are over 100 different species of fescue grasses. However, only six are commonly used as turfgrass. These are divided into two sub generic types based on leaf texture:

- The coarse fescue (including *Festuca arundinaceae*-tall fescue, *Festuca elatior or pratensis*-meadow fescue); and

- The fine fescue *(Festuca rubrea, trichophylla*-creeping red fescue and slender creeping fescue), (*Festuca rubra commutata*-chewings fescue and *Festuca ovina longifolia, Festuca ovina*-hard fescue and sheep fescue). (Turgeon, 1991).

Many of these low maintenance varieties contain turfgrass endophytes which provide resistance to surface feeding insects (sod webworm, cutworms) and have been linked to improved stress and disease tolerance. Once established these varieties tolerate minimal applications of nitrogen fertility. Fine fescue creates high-quality turf when maintained between 1"-2". Characteristics of Kentucky bluegrass and six fescue turfgrass cultivars are depicted in Table 2. Only three of the varieties are recommended and have potential use for the Ferry Point Park Golf Course: creeping red, chewings, and hard.

Tall fescue is a coarse textured, bunch-type species that has adapted to a wide range of soil and climatic conditions. Tall fescue forms a turf of low shoot density and does not blend well with other cool season grasses including red fescue. Poor quality seed may be contaminated with seed of other hay and pasture species, such as orchard and timothy, and ryegrass (Hanson, et. al., 1969). This fescue has a very aggressive nature that performs better at higher heights of cut and often spreads into areas that were not originally planned for seed. More recent studies have revealed that tall fescue contains the toxic funguses ergotamine and ergovaline. These studies have shown that fungus-infected tall fescue can cause sickness and low conception rates in livestock, rabbits and other small animals. Meadow fescue was used to some extent in pastures that were seeded with poor quality lawn seed. They have little value as a turfgrass. The grass grows satisfactorily on dry, sandy, gravelly or rocky soils. There are no varieties in commercial production. Tall fescue grows in a mat-like structure and does not produce the kind of vegetative structure required by small animals such as songbirds, rabbits, field mice, etc.

Table 2. Characteristics of Kentucky Bluegrass and Fescue Turfgrass

KENTUCKY BLUEGRASS	OPTIMAL MOWING HEIGHTS	WEAR TOLERANCE	CHARACTERISTICS
pH of 5.0 or higher Introduced from Europe during the Colonial Period	New cultivars 0.75 to 1.5" Optimum: 1" or higher for most	Most adaptable cool-season turfgrass Excellent wear and cold weather hardiness	Research continues to improve both hardiness and pest tolerance Numerous cultivars for blending
FESCUE SPECIES	**OPTIMAL MOWING HEIGHTS**	**WEAR TOLERANCE**	**CHARACTERISTICS**
Creeping red pH: 5.5-6.5 Introduced from Europe during the Colonial Period	1.5 to 2" New cultivars have been sought to improve close mowing tolerances. Strong creepers: Durlawn, Novarubra, Ruby Weak creepers: Polar and Dawson	Low to Moderate Intolerant of wet conditions and high fertility	Pennlawn for close- mowing Arctared excellent low temperature hardiness; low temperature discoloration results in a distinct reddish color.
Chewings pH: 5.5-6.5 Introduced from Europe during the Colonial Period. First cultivated in New Zealand	.5" to 2" Chewings tolerates more closer mowing heights. Similar environmental adaptation as creeping red.	Noncreeping, bunch-type grass.	Barfalla, Highlight, Koket and Jade for close mowing. Jamestown for resistance to Fusarium patch.
Hard pH: 5.0 -6.5 Introduced from Europe	2"-3" Less drought tolerant, but more tolerant of moist, fertile soils than sheep fescue.	Noncreeping, bunch-type grass similar to sheep fescue.	Low maintenance
Sheep pH: 4.0 -8.5 Indigenous in Northern Hemisphere	2"-3" Well-drained, droughty, sandy or gravelly acid soils of low fertility.	Noncreeping, bunch-type grass with stiff, bluish green leaves.	Very low maintenance, Not adapted to intensive culture.
Tall pH: 4.7-8.5 Indigenous to Europe. Introduced to America 1800's.	1.5"-4" Adapts to a wide range of soil conditions. Heat and drought stress tolerant.	Low to moderate. Irrigation for survival and optimum growing quality.	Many fine-leafed provide high-quality turf Low to moderate
Meadow pH: 4.7-8.5 Introduced from Europe during the Colonial Period	Similar to Tall Fescue	Less persistent under drought and heat stresses	Found in grasslands

Table 3 provides the proposed square footage for each playing surface on the golf course and proposes cultivars for each area of play.

Table 3. Turfgrass and Total Square Foot Estimates for Ferry Point Park

Area/Use	Grass Type	Acreage	Square Footage
Tee Surface & Practice Tee	Princeville Creeping Bentgrass	5.88	256,133
Fairway Surface & Collars & Practice Range	10% Shadow Chewings Fescue 15% Defiant Hard Fescue 25% Wildwood Kentucky Blue 25% Shamrock Kentucky Blue 25% Challenger Kentucky Blue	36.60	1,594,296
Greens Surface/Practice Green (Includes Aprons)	PennLinks Creeping Bent	4.52	196,891
Primary Roughs	10% Shadmark Creeping Red Fescue 20% Shadow E Chewings Fescue 20% Merit Kentucky Blue 25% Shamrock Kentucky Blue 25% Baron Kentucky Blue	50.30	2,191,068
Secondary Roughs	10% Shadmark Creeping Red Fescue 20% Shadow E Chewings Fescue 20% Merit Kentucky Blue 25% Shamrock Kentucky Blue 25% Baron Kentucky Blue	21.00	914,760
Native Areas	Fescues, Forbs, Maritime	22.85	995,346
Lakes	N/A	11.62	506,167
Dry Basins		0.85	37,026
Waste Area		1.48	64,469
Bunkers		3.43	149,411
Cart Path			29,937 Linear Feet
Maintenance Building	N/A	1.50	65,340
Total Irrigated Turfgrass	N/A	118.3	5,153,148
Total Property Acreage	N/A	160.00	6,969,600

Table 4 lists the proposed cultivars of grasses in each area of play and the recommended seeding rates for the blended turfgrass mix. The fescue and the bluegrass proposed lists several potential available cultivars for use. Only seed certified for use in New York will be sown.

Table 4. Grassing Specifications

Playing Surface	Turf Types	Recommended Seeding Rates
Tees	Princeville Creeping Bentgrass	90 lbs./ac 4-5 lbs/1,000 ft^2 or 170 lbs./ac
Fairways	10% Shadow Chewings Fescue 15% Defiant Hard Fescue 25% Wildwood Kentucky Blue 25% Shamrock Kentucky Blue 25% Challenger Kentucky Blue	4-5 lbs/1,000 ft^{2f} or 170 lbs./ac
Primary Roughs	10% Shadmark Creeping Red Fescue 20% Shadow E Chewings Fescue 20% Merit Kentucky Blue 25% Shamrock Kentucky Blue 25% Baron Kentucky Blue	4 lbs/1,000 ft^2 170 lbs./ac
Secondary Roughs	10% Shadmark Creeping Red Fescue 20% Shadow E Chewings Fescue 20% Merit Kentucky Blue 25% Shamrock Kentucky Blue 25% Baron Kentucky Blue	4 lbs/1,000 ft^2 170 lbs./ac
Native Areas	Fescue, Forbs/Maritime	0.10-10.00 lbs/1000ft^2
Putting Green	PennLinks Creeping Bentgrass	90 lbs./ac

Seed that is purchased shall be labeled in accordance with the United States Department of Agriculture and Regulations under the Federal Seed Act and Association of Official Seed Certification Agencies (AOSCA). The owner or owner's representative will have the right to reject any seed not meeting the design specifications.

3.3 Establishment of Playing Surfaces

The grasses for the specific playing areas summarized in the previous tables were chosen for their individual characteristics:

- **Tees and Greens.** Tee surface areas will be seeded with 100% Princeville Creeping bentgrass and greens will be re-established with PennLinks Creeping bentgrass.

- **Fairways.** Fairway re-establishment will consist of a blend of 10% Chewings fescue, 15% Defiant Hard fescue, 25% Wildwood Kentucky bluegrass, 25% Shamrock Kentucky bluegrass, and 25% Challenger Kentucky bluegrass.

- **Primary and Secondary Roughs.** These areas will be re-established with a blend of Creeping red and Chewings fescue (30%) and Merit, Shamrock and Baron Kentucky bluegrasses (70%).

- **Native Areas.** Natural areas altered by construction may be revegetated using local vegetation, depending upon plant quality and design considerations. Otherwise they will be re-established using a combination of native species mixed with other desirable plant communities to enhance the overall quality of the site for aesthetic and wildlife uses. Certain species will be propagated while others will be placed.

3.4 Soil Test Results and Plant Nutrient Recommendations

3.4.1 Added Nutrients During Pre-Plant or Grow-in

At Ferry Point Park, soil surface pH values are in the range of 7.7 - 8.0. Before seeding, additional site-specific soil tests will be performed to determine the appropriate amount of preplant nutrients. The amount of soil nutrients required assumes the material will be incorporated into the top 6" soil surface prior to seeding. Once the soils have been blended and/or graded, they will need additional tests in order to determine the appropriate amount of elemental sulfur, calcium or limestone.

The golf course will conduct a phosphorus saturation test on the soils after fine grading is complete in order to establish the amount of phosphate-phosphorus (P_2O_5) that should be applied within the soil prior to seeding. The intent will be to release 10 lbs/ac of available phosphorus. This will enhance cool season grass germination. The amount of preplant P_2O_5/ac will remain the same regardless of the tilled depth of the soils. Phosphorus is relatively immobile when applied to the surface of either soil or turf because it binds to aluminum and iron in the soil.

As with phosphorus, nitrogen is needed during the grow-in phase to help promote rapid turfgrass cover. An initial application of 1.5 lb of N/1,000 ft^2 with a 2-to-1 ratio of nitrogen to potassium is proposed. On soils with low organic matter, as much as 2 lbs of N/1000 ft^2/yr can be tied up in the soil organic fraction that will initially be unavailable to the plant (Petrovic, 1990). Therefore, more nitrogen must be applied in the grow-in phase than on established golf courses to aid in plant maturation and to compensate for loss (conversion to an unavailable form) to the soil. Frequent, lower rate applications of nitrogen containing fertilizers are important during the grow-in phase to provide optimal levels of plant-available nitrogen without losses to leaching.

In addition to soluble nitrogen, approximately 125 lbs/acre of a water insoluble nitrogen source (i.e., IBDU,) will be applied prior to seeding. This will provide an additional .75 lbs of nitrogen while the cotyledons are taking root. The aim is to allow a readily available source of nitrogen to be absorbed by the plants while they are rooting in order to gain establishment within the first 7-21 day period.

To stimulate rapid establishment and lateral movement of the fescue seedlings, fertilizer feedings should begin the third week following seeding. They should continue during the next 5-7 week period and be timed to match turf uptake capabilities. It is during this time that soils are typically deficient of materials necessary for adequate plant growth.

3.4.2 Fertilizing of Putting Green Surfaces

Specific finish grading plans and greens mix material specifications will be provided to the general contractor. All sand materials used in the construction of the greens profile will be sent to a certified USGA greensmix laboratory. Putting green surfaces shall be compacted and smoothed to meet the blending operations and design grades detailed in the construction documents.

The contractor will work 10 lbs/1000 square feet of 19-26-5 fertilizer (N-P-K ratio) into the top three inches of the putting green surfaces, thoroughly mixing by discing or rotovation. This material must be a fine particle, chemically homogeneous product having a minimum of 75 % of the total nitrogen derived from urea and methylene urea plus a minimum of 26% monoammonium phosphate or equal. No lime or sulfur shall be applied to putting surfaces unless directed by the Golf Course Superintendent after the approved greens mix has been tested for existing pH.

Before seeding, the contractor will apply and work into the top two inches of the greens mix, the following biostimulants and nitrogen fertilizers at the specified rate per thousand square feet of putting surface:

- 10 pounds of magnesium sulfate (epsom salts);
- 10 pounds of milorganite fertilizer;
- 11 pounds of POLY-S coated urea;
- 80 pounds of Sand Aid (see 4.7.2 Biostimulant/Stress Management Materials); and
- 20 pounds of Pro Turf STEP manufactured by O.M. Scott & Sons Co. (or an approved micro-nutrient supplement).

The golf course will conduct additional soil audits to evaluate the final soil profiles. The tests will reveal any additional soil nutrients necessary at preplant without exceeding the loading limits or cation exchange capacity of the existing soils. The soil tests will be performed prior to seeding to determine nutritional needs of nitrogen, phosphorus, potassium (N,P,K), base saturation, and extractable minors. These tests and amendments will be performed in order to obtain a soil pH range of 6.5-6.8 for all of the golf course tee, fairway, green, and primary rough playing surfaces.

Additional applications of soluble micro-nutrients (ProTurf STEP or other suitable micronutrients) may be required during establishment and maturation, and shall be applied by the contractor at the direction of the golf course consultant working directly with the golf course superintendent and the designer/architect.

Starting approximately four weeks after germination, fertilization should begin using weekly, alternate applications of Lesco green fertilizer and Lesco starter fertilizer. The minimum rate of application shall be one-half pound of nitrogen per one thousand square feet. This schedule should be seen as flexible and will be adjusted by Mr. David McIntosh of Golfturf and Jack Nicklaus Design, as deemed necessary.

3.4.3 Fertilizing Established Turf

Golf courses can be managed so that nitrates from fertilizers do not impact ground water supplies if they avoid over-watering and over-fertilization (Petrovic, 1990). Nearly 50% of the nitrogen fertilizer applied to turfgrass is assimilated by the plant. Much of the remaining fraction is stored in the soil and/or released to the atmosphere. Thus, there is a very limited amount of fertilizer nitrogen remaining that can be leached into ground water or transported as runoff into surface water. Leaf tissue analysis will be conducted annually during the peak growing season to determine the need for nitrogen. The implementation of a precision fertility program as part of the IPM plan helps minimize the risk of increasing nitrate/nitrogen concentrations in ground and surface water.

When research has shown nitrate leaching from turfgrass areas, it also reveals that fortunately, the leaching can be controlled by best management practices (e.g., Cohen, et al., 1990). Excessive leaching most often occurs when excessive amounts of highly water-soluble nutrients are used and/or highly water-soluble nitrogen sources (urea, ammonium nitrate, calcium nitrate, ammonium sulfate, or potassium nitrate) are applied at inappropriate times and rates. The problem is exacerbated when water soluble fertilizers are applied to turf in dormant or semi-dormant states, or when excessive irrigation or unexpected heavy rains follow fertilization. The course's management will avoid these conditions through leaf tissue analysis, timing of applications, and attention to weather forecasts.

Research into high sand content sites, such as golf greens, reveals that properly managed putting surface areas are not prone to heavy nitrate leaching. This is especially true with lower nitrogen application rates and increased use of slow release nitrogen sources. Slow release nitrogen sources require microbial activity or hydrolysis to convert the nitrogen to a form available to the plant. When soluble nitrogen sources are used, the potential for ground water contamination can be eliminated by matching applications to plant uptake. For example, a study done by Morton, et al., 1988 addressed the influence of irrigation and fertilization on nitrogen losses from turf on a sandy loam soil. The authors concluded normal fertilization and irrigation on a mix of cool-season turfgrasses resulted in nitrogen losses no different from the unfertilized controls. Another study (Snyder, et al., 1984) also observed that controlling irrigation reduces the potential for nitrate leaching to very low levels on sand based greens.

Timing fertilizer application to coincide with the period of active plant growth and nutrient uptake will optimize nitrate absorption and reduce the amount of soluble nitrogen available for leaching. Slow-release fertilizers that do not release excessive nitrogen during heavy rain will be applied during the wet months. When evapotranspiration is closely matched by irrigation during seasonably wet months and periods of active plant growth, water soluble nitrogen can be applied at rates of up to 1.0 lb N/1000 ft^2/month without any significant accumulation or leaching. The Ferry Point Park Golf Course proposes soluble nitrogen application rates between .50-. 75 lb N/1000 ft^2 per application.

Table 5 projects the range of soluble and insoluble nitrate sources and illustrates recommended

application rates for each formulation. The proportion of highly soluble and slow-release nitrogen fertilizers used on the golf course will vary with management area and time of year. Roughly 50 to 60% of fertilizers applied to greens and tees will be in water soluble forms, while the remaining 40 to 50% will be of the slow-release variety. Typical application rates for greens and tees are approximately 1 lb N/1000 ft^2 per growing month.

A higher proportion of nitrogen applications (up to 65%) on fairways will be slow-release or delayed-release formulations. Total nitrogen added per year on fairways after grow-in will be approximately 2-3 lbs/1000 ft^2. To maximize utilization of the applied nitrogen sources, each application will be applied between .25 -.75 lbs/1000 ft^2. This will allow for a more precise controlled release application and reduce the risk of over fertilization.

Table 5. Nitrogen Fertilizer Annual Usage for Ferry Point Park Golf Course in Bronx, New York.

I. GROUP (Greens/Tees) Water-Solubles[1]	Single Application	Maximum Yearly
1. Lesco 16-32-16	.10-.20 lb/N/1000 sq. ft.	
2. Lesco Green-Flo 30-0-0	.25-.50 lb/N/1000 sq. ft.	
3. Lesco 30-0-17	.10-.20 lb/N/1000 sq. ft.	Greens and Tees[2]
4. Lesco 20-20-20	.10-.20 lb/N/1000 sq. ft.	will receive
5. Gro More12-62-0	.10-.20 lb/N/1000 sq. ft.	5-6 lbs/N/1000 sq.
6. Gro More 20-5-30	.10-.20 lb/N/1000 sq. ft.	ft./yr of water
7. Gro Power 6-2-8	.30-.75 lb/N/1000 sq. ft.	soluble products
8. Plant Marvel 20-20-20	.10-.20 lb/N/1000 sq. ft.	
9. Urea 45-0-0	.30-.75 lb/N/1000 sq. ft.	
10. Scotts Fluid 20-5-30	.10-.20 lb/N/1000 sq. ft.	
Slow Release (Primarily)		
1. Scotts 22-0-16	.50-.75 lb/N/1000 sq. ft.	Greens and Tees
2. Scotts 19-26-5[3]	.50-.75 lb/N/1000 sq. ft.	will receive
3. Scotts 15-0-30	.50-.75 lb/N/1000 sq. ft.	3-4 add'l lbs/N/
4. STEP (trace elements)[4]	.50-.75 lb/N/1000 sq. ft.	1000 sq.ft./yr of
5. Lesco 29-0-0	.50-.75 lb/N/1000 sq. ft.	water insoluble
6. Lesco 21-4-11	.50-.75 lb/N/1000 sq. ft.	products
7. Lesco 14-2-14	.50-.75 lb/N/1000 sq. ft.	
8. Lebanon 16-4-8	.50-.75 lb/N/1000 sq. ft.	
9. Agway 0-0-50	1- 2 lb/K/1000 sq. ft.	
10. Alternative Nitrogen Sources[5]	varies, based on product	
II. GROUP (Fairways/Roughs)		
Water-Solubles[1]		
1. Colt 45-T 40-0-15	.25-.50 lb/N/1000 sq. ft.	
2. Urea 45-0-0	.50-.75 lb/N/1000 sq. ft.	Fairways and
3. Calcium Nitrate 15-0-0	.50-.75 lb/N/1000 sq. ft.	Roughs will
4. Ammonium Nitrate 34-0-0	.50-.75 lb/N/1000 sq. ft.	receive 3-4 lbs/
5. Turf Royal 21-7-14	.50-.75 lb/N/1000 sq. ft.	N/1000 sq.ft./yr
6. Lesco 33-0-17	.50-.75 lb/N/1000 sq. ft.	of water-soluble
7 Lesco 23-0-23	.50-.75 lb/N/1000 sq. ft.	products[6]
8. Ammonium Sulfate 21-0-0	.50-.75 lb/N/1000 sq. ft.	
Slow Release (Primarily)		
1. Lesco 28-3-5 mini	.75-2.0 lb N/1000 sq. ft.	
2. Lesco 35-0-0 mini	.75-2.0 lb N/1000 sq. ft.	Fairways and
3. Lesco 24-3-12 mini	.75-2.0 lb N/1000 sq. ft.	Roughs will also
4. Lesco 10-15-15[3]	.75-2.0 lb N/1000 sq. ft.	receive 4-5 lbs
5. Par Ex 28-3-8	.75-2.0 lb N/1000 sq. ft.	N/1000 sq.ft./yr
6. Scott 32-3-10	.75-2.0 lb N/1000 sq. ft.	of water
7. Scott 22-0-22	.75-2.0 lb N/1000 sq. ft.	insoluble products[4]
8. Alternative Nitrogen Sources[5]	varies, based on product	

[1] -Formulations will be selected in accordance to field inspection, soil and tissue testing. The above rates include 1-3 lbs during grow-in.
[2] -Tees typically use 20-30% more (N) fertilizer than the greens.
[3] -Starter materials will be used during the first year of construction and for establishment of nursery grasses.
[4] -Trace elements will be added according to soil tests.
[5] -Refer to products on Table 6 for choice in Natural Organic Materials.
[6] -Roughs will receive 35-40% less (N) fertilizer than the fairways.
NOTE: Water-soluble products will be used during periods of active plant growth and during periods of less frequent rains.

3.4.4 Organic Fertilizers

One rapidly emerging field of alternatives is the use of "natural organic" fertilizers to reduce or suppress fungus disease. In laboratory, greenhouse and field studies, it has been shown that the natural organic fertilizers (Ringer®, Sustane®, and All Gro Compost®) can suppress disease development from 50% to 100% (Nelson, 1990). The suppression and the severity was noted on a wide range of diseases including ones projected on this site: brown patch, dollar spot and pythium root rot. These nitrogen sources were not found to leach from cool season golf greens.

Table 6 presents alternative nitrogen sources available and rates of application consistent with those recommended by each manufacturer.

Table 6. Alternative Nitrogen Sources

Slow Release Synthetic Material

Trade name	Manufacturer	Analysis	Release	Formulation
Nutralene®	Nor-Am	40-0-0	12-16 weeks	Methylene Urea
Once®	Grace Sierra	24-6-11	5-6 months	Resin Coated & Soluble Nitrogen Sources
Polyon®	Pursell Ind.	42-0-0	9-12 weeks	Osmotic Polymer Coated Urea

Natural Organic Material

Nature Safe®	Griffen Ind.	10-2-8	5-12 weeks	Hydrolyzed Feather meal
Resurge®	Quad Five	7-7-7	12-16 weeks	Feather meal
Turf®	Ringer	12-2-6	5-7 weeks	Feed grade animal protein
Sustane®	Sustane Corp.	5-2-4	12-16 weeks	Turkey waste composted

Table 6 continued

Recommended Rate of Application

Product®	lbs.N/1,000 ft 2	lbs. of Product/1,000 ft 2	Total lbs./Acre
Nutralene®	0.75 - 2.00	1.90 - 5.00	83 - 217
Once®	1.00 - 2.00	4.25 - 8.50	185 - 370
Polyon®	0.75 - 2.00	1.80 - 4.80	78 - 209
Nature Safe®	0.50 - 1.00	5.00 - 12.0	217 - 450
Resurge®	1.00 - 2.00	15.0 - 30.0	653 - 1,306
Turf®	1.00 - 2.00	8.50 - 17.0	370 - 740
Sustane®	1.00 - 2.00	20.0 - 40.0	871 - 1,742

Note: Natural organic materials manufactured from wastewater sewage sludge will not be used at the golf course because of potential contamination with heavy metals.

3.5 Non-Turf Areas

The secondary roughs or areas restored after construction will be re-vegetated with a mix of grassy species:

- 10% Shadmark Creeping Red fescue
- 20% Shadow E Chewings Fescue
- 20% Merit Kentucky Blue
- 25% Shamrock Kentucky Blue
- 25% Baron Kentucky Blue

3.5.1 Naturalized Restoration Plan

A vegetative buffer will enhance a section of the East River and its associated floodplain. This remedial planting plan for the buffer areas will be based on a variety of existing documents, field investigations, agency discussions, and topographic mapping. The enhanced vegetative buffer areas are designed to: 1) enhance habitat and add definition between the golf course and the river park area; 2) reduce floodplain erosion; 3) enhance native tree and shrub communities; 4) improve riparian habitat; and (5) discourage human access to the river outside defined trail areas.

Enhancement of the vegetative buffers of the East River side channels and portions of the floodplain is an important component of long term channel and floodplain stability. This is particularly true for areas that were previously cleared of vegetation or have been disturbed, modified, or altered from sanitation and dump activities.

Planting will include a combination of nursery stock and purchased horticultural material. Selection of the recommended tree and shrubs species within each zone will be based on native status within the general project area and nursery availability, as well as individual species hydrologic tolerances. The grassing and revegetation process will restore low maintenance, coastal native grasses and plants so that once established, they will flourish on their own with minimal human intervention. The species proposed for planting will be discussed in detail in the Habitat Restoration Plan.

Chapter IV

Integrated Pest Management for Ferry Point Golf Course

Proper detection and identification of insects and mites in turf, combined with pest tolerance thresholds, is the key to an Integrated Pest Management system that will produce optimum results with minimum undesirable side effects. Numerous IPM strategies have been perfected for this purpose. In an IPM program, the mere presence of an insect in turf is not a valid reason for taking steps for control. Rather, a thorough knowledge of the pest population is needed before the proper response can be formulated. Some potential pests will be more problematic than others. These are rated in a Pest Infestation Index in this chapter, and thresholds for action are provided for each of the anticipated pests.

4.1 Pest Sampling Guidelines

The golf course superintendent or a fully trained assistant will monitor each golf hole for indications of reduced turf quality. The superintendent will be responsible for the correct identification and documentation of any fungi, insects or weeds found, and will look first for environmental adjustments that might reduce or eliminate the pest. Improving ventilation, selective removal of vegetative growth, and physical removal of small pest populations are examples of steps to be taken before other intervention is considered. Soil, pH, nutrient content, sodium levels, temperature and moisture content will also be evaluated to determine if they could be contributing to the pest presence.

Samples of unidentified insects, weeds, nematodes or pathogens will be forwarded to a reputable laboratory for assistance in proper identification and procedural control. If the need arises to obtain and determine a control option, the assistance of an appropriate environmental firm, state agency, or New York extension service specialist will be sought.

4.1.1 Visual Inspection

The old-fashioned technique of looking closely at the turf is still the most valuable. If, upon pulling up on the turf, it breaks off easily, the staff will look for the sawdust of billbugs. If frass (insect fecal pellets) are present, a disclosing solution can be used to determine if turf caterpillars are present.

If a pest is detected, it is important to know the extent of the problem. The transect method involves walking in a line across the affected turf, counting the number of damaged areas observed. Square foot samples are often useful if billbugs, mites or scales are suspected. A square-foot flap of turf is cut and the visible grubs in the soil are counted. Alternately, a standard golf course cup cutter may be used to take turf and soil samples. The cup cutter sample is multiplied by 10 to determine the number of insects per ft^2.

4.1.2 Disclosing Solutions

Many of the turf insects and mites defy easy detection by the human eye. Therefore, a disclosing solution of pyrethrum or soap is used. A disclosing solution of 1.0 oz. of household dish washing detergent (Joy® liquid is known not to cause turf damage) in two gallons of water is effective. The water is applied to a one-square yard area with a common garden sprinkling can. Within 3-5 minutes the caterpillars will come to the surface where they can be easily counted. Occasionally, billbug adults and other insects are also flushed out.

4.1.3 Trapping

Some of the turf infesting insects are attracted to lights or chemical attractants (pheromones) and can be easily monitored. Most of the cutworms, sod webworms and many of the night flying white grub adults can be collected in a light trap. Pheromone traps have been developed for the cutworms, sod webworms and armyworms. Other insects, such as billbugs, can be monitored by using simple pitfall traps placed along the side of turf areas.

Light traps generally use an ultraviolet (UV) bulb which is attractive to most night flying insects. By running a trap several nights a week and counting the cutworms, sod webworms or armyworm adults, an estimate can be made of when turf damage *could* occur. As an example, black cutworm adults are easily captured in a light trap and larvae can be expected on greens and tees about two weeks after peak adult catches.

Pheromone traps are even more precise than light traps because single species can be monitored. Pheromones exist for black cutworms and most of the armyworm complex. The numbers captured can be used in a manner similar to light trap counts.

A Pitfall trap used for monitoring billbugs is a 16 oz. cup buried in or next to turf with its rim level with the soil. Billbug adults fall into the trap and can be counted to monitor when activity begins. After two weeks of steady captures, it is time to sample for the larvae in the turf.

4.1.4 Disease Immunoassay Kits

Disease immunoassay kits may be used to aid in the identification of turfgrass disease. They may be used to detect and/or rule out the presence of a disease pathogen through positive indication. Currently, the kits are available for the following diseases: Brown patch, Dollar spot, and Pythium. The kits are used to assist in proper disease identification, to determine when it is *not* appropriate to apply a pesticide, and to reduce the potential for the wrong pesticide to be used because of misdiagnosis.

When fungus infestations are not readily identifiable by the golf course superintendent and his or her staff, samples will be sent to a laboratory for analysis. Chemical treatment will not occur until the fungus is properly identified so that the proper product is used. Laboratory results are usually available within 48 to 72 hours.

4.2 Environmental Monitoring

Since most pest activity is regulated by weather conditions, several methods have been developed which use weather monitoring to predict pest development. These methods (or models) suggest *when* activity will occur but not *how much* activity is present. When weather conditions are right, the staff is alerted to monitor for pests but other steps already described will be required to determine if pests are actually present in sufficient numbers to cause damage to the turf.

4.2.1 Degree-day Models

"Degree-days" provide a method of measuring the degree of maturity an organism has reached due to weather conditions. Insects and mites develop more rapidly as they get warmer. Below a certain temperature threshold, little or no development takes place. There are no degree-day models available for the insects and mites on the Ferry Point Park site. Degree-day models do exist for disease and pre-emergent weeds, however, and can be used to make predictions in conjunction with monitoring models established in the field.

Heating degree-days may be calculated manually if necessary (degree days={daytime high (F^0) -- daytime low (F^0)} divided by 2 - 50 F^0). If a positive number remains, add this to the previous total to amass cumulative degree days. If the total is a negative number, the cumulative degree day is zero since negative heating degree days are non-existent.

4.2.2 Plant Phenology

Plant phenology is nature's degree-day model. Since plant development is also dependent on temperature, associating plant activity with insect activity can improve timing of controls.

4.3 Anticipated Pests

Pest infestation information from existing golf courses in the New York and New Jersey metropolitan areas was used to determine potential pest problems for Ferry Point Park Golf Course. With input from these courses and other data taken from similar cool season regions of the United States, a list of known and probable weeds, insects and fungus problems that can be expected at the golf course has been compiled. By its nature, the list is not, and cannot be, complete but it provides an adequate starting point that can be adapted and modified through experience. Anticipated pest problems include 46 weed species, 25 turf diseases and 16 insects. However, only 17 key pests were identified and include 7 weeds, 6 diseases and 4 insects.

The pests of greatest concern to the greens and, to a lesser degree the tees, will be leaf contact pathogens. These pests can be identified by a combination of visual inspections and use of turf disease detection kits (Reveal® or Dipstick®).

The following represents a general overview of the pest problems that might be encountered at Ferry Point Park. Pests are divided into three groups: weeds, disease and insects.

4.3.1 Weed Occurrence

Turfgrass weeds at existing golf courses in the area are minor in occurrence due to traditional low mowing practices and dense turfgrass competition.

Weed problems associated with golf course turf are divided into two categories: grassy weeds (monocotyledons) and broadleaf weeds (dicotyledons). Mixed with other grassy plants, monocots will be allowed to flourish in the secondary roughs and areas left in a natural state. Handpicking or spot spray will be used in the primary roughs and fairways only. Table 7 is a list of annual monocotyledons turfgrass weeds anticipated and Table 8 is a list of perennial dicot broadleaf weeds. These grass weeds are the most likely to persist on cool season turfgrass in the Ferry Point Park area.

Table 7. Pest Identification-Annual Grass Weeds

Annual bluegrass	*Poa annua*
Barnyardgrass	*Echinochloa crusgalli*
Dallisgrass	*Paspalum dilatatum*
Goosegrass	*Eleusine indica*
Green foxtail	*Setaria viridis*
Large crabgrass	*Digitaria sanguinalis*
Purple nutsedge	*Cyperus rotundus*
Purpletop	*Tridens flavus*
Quackgrass	*Agropyron repens*
Small crabgrass	*Digitaria ischaemum*
Timothy	*Phleum pratense*
Yellow foxtail	*Setaria lutescens*
Yellow nutsedge	*Cyperus esculentus L.*

Table 8. Pest Identification-Perennial Broadleaf Weeds

Black Medic	*Medicago lupulina*
Broad-leaved plantain	*Plantago major*
Common chickweed	*Stellaria media*
Common speedwell	*Veronica officinalis*
Clover	*Trifolium repens*
Curly Dock	*Rumex crispus L.*
Dandelion	*Taraxacum officinale*
Ground Ivy	*Glechoma hederacea*
Heal-all	*Prunella vulgaris*
Henbit	*Lamium amplexicaule*
Knapweed	*Centaurea maculosa*
Knotweed	*Polygonum aviculare*
Lambsquarter	*Chenopodium album*
Mallow	*Malua rotundifolia*
Mouse-ear chickweed	*Cerastium vulgatum*
Nodding spurge	*Euphorbia maculata*
Oxalis	*Oxalis stricta*
Pearlwort	*Sagina procumbens*
Plantain	*Plantago rugelii*
Poison Ivy	*Rhus radicans*
Poison Oak	*Toxicodendron diversilobum*
Purslane speedwell	*Veronica peregrina*
Prostrate spurge	*Euphorbia prostrata*
Prostrate pigweed	*Amaranthus blitoides*
Ragweed	*Ambrosia sp.*
Red clover	*Trifolium pratense*
Sheep sorrel	*Rumex acetosella*
Shepherd's purse	*Capsella Bursa-pastoris*
Spotted spurge	*Euphorbia supina*
Stitchwort	*Stellaria graminea*
Thistle	*Cirsium sp.*
Yarrow	*Achillea millefolium*
Yellow wood sorrel	*Oxalis europaea*

4.3.2 Turfgrass Disease

There are six turfgrass diseases potentially posing a problem at Ferry Point Park Golf Course: brown patch, dollar spot, Fusarium patch, summer patch, take all patch and pythium blight. The potential for disease presence points out the need to implement a visual monitoring and sampling control program once sod, seed, and any hydromulching has been completed. Disease under cool, moist, wet conditions will probably remain the more persistent of pathogens to control once the golf course matures and the grow-in is complete. The cool season diseases and controls are presented in Table 9. The most likely turf diseases to be encountered at the Ferry Point Park Golf Course are presented in Table 10. The occurrence and severity will vary, depending on the time of year, weather conditions, fertility, and total dissolvable salts. Cultural practices that promote healthy turf will be employed to minimize weed occurrence.

TABLE 9. METHODS OF DISEASE CONTROL COOL SEASON TURFGRASS

DISEASE	CULTURAL CONTROL	CHEMICAL CONTROL	RESISTANT SPECIES/VARIETIES
ANTHRACNOSE	Fertilize to maintain vigor, improve drainage aeration, and	Benomyl, chlorothalonil, mancozeb, propiconazole, triadimefon	Bentgrasses are less susceptible than annual bluegrass on putting greens. raise mowing height during periods of heat stress.
BROWN PATCH	Avoid excess N in summer, increase air circulation, avoid excessive watering.	Anilazine, benomyl, chlorothalonil, fenarimol, iprodione, mancozeb, propiconazole, thiophanates, thiram, vinclozolin.	Kentucky bluegrass are less susceptible to brown patch than other cool-season turfgrasses.
DOLLAR SPOT	Avoid N deficiency, maintain good soil moisture, remove guttation and dew from leaf surfaces, avoid night watering.	Anilazine, benomyl, chlorothalonil, fenarimol, iprodione, mancozeb, propiconazole, thiophanates, thiram, vinclozolin.	Resistant Kentucky bluegrass varieties include Adelphi, America, Aspen, Challenger, Eclipse, Escort, Nassau, Somerset, and Wabash.
FAIRY RING	Use clean fill during establishment irrigate, or mask symptoms with fertilizer or iron.	None effective, must fumigate with soil sterilant to eradicate the fungus (this will also kill grass).	No resistant species or varieties are available.
LEAF SPOT/ MELTING OUT	Avoid excessive N applications in early spring, mow 2" in height, avoid light, frequent irrigation. Do not use benomyl, thiophanates, triadimefon to control this disease.	Anilazine, chlorothalonil, iprodione, maneb, mancozeb, vinclozolin.	Resistant Kentucky bluegrass include: Adelphi, Bristol, Destiny, Eclipse, Enmundi, Glade, Ikone, Liberty, Majestic, Mona, P-104, Rugby, and Somerset.
NECROTIC RING SPOT	Manage turf for maximum root growth, irrigate to maintain good soil moisture, maintain mowing height at 2" or above.	Benomyl, fenarimol, propiconazole.	Perennial ryegrasses are resistant.
POWDERY MILDEW	Reduce shade and improve air circulation.	Benomyl, fenarimol, propiconazole, triadimefon, (fungicides usually not required).	Use grasses adapted to shaded areas such as fine fescues and rough blue-grasses. Resistant Kentucky bluegrass include: A-34, Glade Touchdown, & Eclipse.
PYTHIUM BLIGHT	Improve drainage, increase air circulation, avoid excess N, reduce irrigation.	Chloroneb, etridiazole, metalaxyl, Fosetyl-Al, propamocarb.	Kentucky bluegrass is less likely to be damaged by Pythium blight than other turfgrasses.

TABLE 9. (cont'd). METHODS OF DISEASE CONTROL COOL-SEASON TURFGRASS

DISEASE	CULTURAL CONTROL	CHEMICAL CONTROL	RESISTANT SPECIES/VARIETIES
PYTHIUM ROOT ROT	Increase drainage, aerate and reduce irrigation.	Fosetyl-Al, Subdue as drench.	Unknown
RED THREAD/PINK PATCH	Maintain adequate fertility of turf (especially N).	Anilazine, benomyl, chlorothalonil, iprodione, propiconazole, thiophanates, triadimefon, vinclozolin.	Resistant perennial ryegrasses include: Alliare, Commander, Delray, Manhattan II, Palmer, Pennant, Prelude, Regal, Regency, SR 4000, SR 4100, and Yorktown II.
RUST DISEASES	Avoid N deficiency and drought-stress (especially in late summer/early fall).	Maneb, mancozeb, fenarimol, propiconazole, triadimefon, (fungicides usually not required).	Some resistant Kentucky bluegrass include: Kenblue, Parade, Rugby, A-34, and Classic.
SLIME MOLDS	Remove spores by spraying water on leaves or brushing turf.	None required.	Not applicable since grasses are not infected.
SNOW MOLDS: GRAY SNOW MOLD	Avoid excess N in fall before grass goes dormant, mow until top growth ceases in fall, prevent accumulation	Fungicides should be applied in late fall before snow cover. Chloroneb, .fenarimol, iprodione.	Some Kentucky bluegrass include: Adelphi, Aspen, Enmundi, Plush, and Vantage.
PINK SNOW MOLD	(Same as gray snow mold)	Benomyl, fenarimol, iprodione, mancozeb, PCNB, thiophanates, thiram.	Most fine fescues and Kentucky bluegrass are moderately resistant to this disease.
STRIPE SMUT	Avoid excess N in early spring, avoid drought stress in early summer.	Apply fungicides in early spring or late fall, water-in for good root uptake. Fenarimol, propiconazole, vinclozolin.	Ryegrasses, tall fescues, and the fine fescues are less susceptible to this disease than Kentucky.
SUMMER PATCH	Avoid low mowing heights, reduce compaction, avoid over watering in summer, improve drainage.	Fenarimol, propiconazole, thiophanates, triadimefon.	Resistant Kentucky bluegrass include Adelphi, Enmundi, Sydsport, and Touchdown.
TAKE-ALL PATCH	Use acidifying fertilizers or sulfur to lower pH, avoid P and K deficiency	Sterol biosynthesis inhibitors may have some benefit if applied prior to root infection.	Annual bluegrass.

Source: Dr. Peter Landschoot
Assistant Professor, Turfgrass Science,
Agronomy, PennState University
LANDSCAPE MANAGEMENT / JUNE 1991

Table 10. Pest Identification - Turfgrass Disease

Algae[1]	*Cyanobacteria*-Blue-green algae
Anthracnose	*Colletotrichum graminicola*
Bacterial wilt	*Xanthomonas spp.*
Brown patch	*Rhizoctonia solani*
Copper spot	*Gloeocercospora sorghi*
Crown and root rot	*Bipolaris tetramera*
Dollar spot	*Lanzia spp.*
Downy mildew	*Sclerophthora macrospora*
Fairy ring	*Marasmius oreades*
Fusarium patch	*Fusarium nivalis*
Helminthosporium leaf spot	*Bipolaris sorokiniana*
Leaf rust	*Puccinia spp.*
Melting out	*Drechslera poae*
Moss[2]	*Bryophyta spp.*
Necrotic ring spot	*Leptosphaeria korrae*
Nematodes[3]	*Criconemoides, Meloidogyne, Helicotylenchus, Pratylenchus, spp.*
Pink patch	*Limonomyces roseipellis*
Powdery mildew	*Erysiphe graminis*
Pythium blights	*Pythium aphanidermatum* *Pythium ultimum*
Red thread	*Laetisaria fuciformis*
Slime molds	*Physarum cinereum*
Snow molds	*Typhula incarnata, T.ishikariensis*
Summer patch	*Magnoporthe poae*
Take all patch	*Gaeumannomyces graminis*
White patch	*Melanotus phillipsii*

Biotic Agents of Noninfectious Diseases

[1] Develops on the surface of overly wet soils.

[2] Small plants that overgrow and compete with turf when wetness, poor nutrition and soil conditions exist.

Nematode Diseases

[3] May be diverse and are dependent on the population of plant-parasitic and saprophytic density.

4.3.3 Turfgrass Insects

The Ferry Point Park Golf Course will experience minor outbreaks of turfgrass insects. Turfgrass insects are not considered major pests on turf in Bronx, New York. The most common insects are Black ataenius and white grubs. Black cutworms may remain fairly persistent in putting green surfaces. The proposed regrassing to newer cultivars of bentgrass includes varieties which provide resistance to surface feeding insects (e.g., sod webworm, cutworms).

A list of probable leaf and stem feeding insects are provided in Table 11. These are the more common turfgrass pathogens which have the ability to destroy healthy areas of turfgrass. Tolerable levels below threshold limits should pose no threat to the desirable playing quality of the golf course. Each insect will be monitored for baseline detection and an established threshold level will be developed.

Table 12 provides a timeline of probable insect activity. Most turfgrass insect pests are cyclical and will typically require some form of treatment even under ideal environmental conditions. There has been a trend common among many golf course superintendents to monitor turfgrass quality and allow the insect to complete its natural life cycle. This concept has been more successful on warm-season grasses than on most cool-season turf.

We anticipate the range of activity to be possibly severe for only two insect pests. Of the two, black ataenious will be easier to detect and control. Generally, large populations of white grubs are necessary before noticeable symptoms of turfgrass decline are evident. Cutworms will be more persistent but will be the easiest to control with either parasitic nematodes or through a biorational approach using natural chemicals or Pheromones.

Table 11. Pest Identification - Turfgrass Insects

Common Name	Pathogen	Scientific Name	Founder
Annual bluegrass weevil	weevil (beetle)	*Hyperodes anthracinus*	Dietz
Ants	ants	*Formicidae*	
Black cutworm	moth	*Agrotis ipsilon*	Hufnagel
Bluegrass billbug	weevil (beetle)	*Sphenophorus parvulus*	Gyllenhal
Hairy chinch bug	true bug	*Blissus leucoperus hirtus*	Montandon
Sod webworm	moths	*Pyralidae; Crambinae*	
Bluegrass sod webworm	moth/ caterpillar	*Parapediasia teterrella*	Zincken
Larger sod webworm	moth/ caterpillar	*Pediasia trisecta*	Walker
White grubs	grubs (beetles)	*Scarabaeidae*	
Asiatic garden beetle	grub	*Maladera castanea*	Arrow
Black turfgrass ataenius	grub	*Ataenius spretulus*	Haldeman
Japanese beetle	grub	*Popillia japonica*	Newman
May/June beetles	grub	*Phyllophaga spp.*	
Northern masked chafer	grub	*Cyclocephala borealis*	Arrow
Oriental beetle	grub	*Anomala orientalis*	Waterhouse
Winter grain mite	mite	*Penthaleus major*	Duges

Table 12. Timeline Estimate of Insect Activity for Bronx, New York.

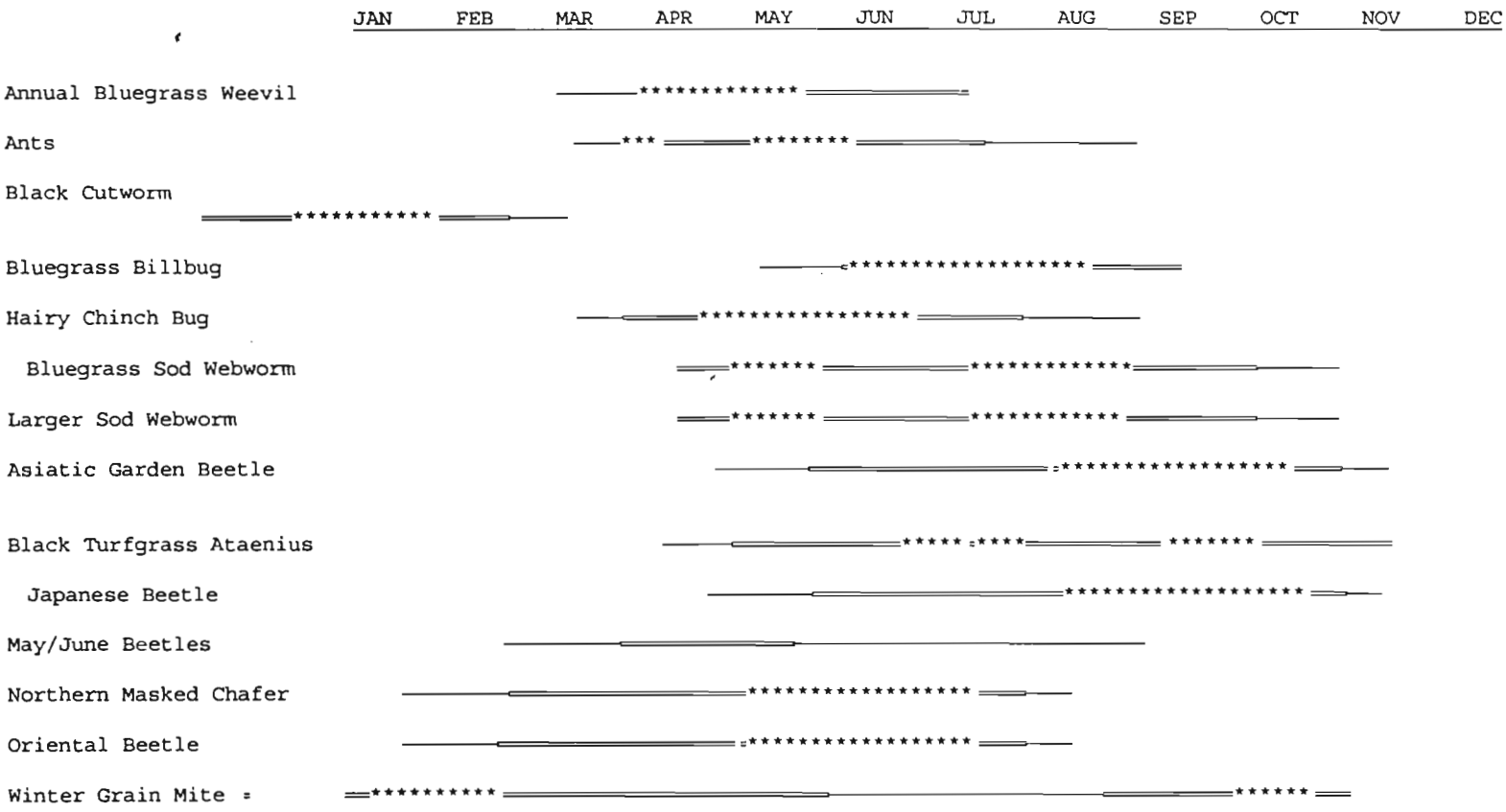

——— = possible occurrence, rarely at pest levels

═══ = probable occurrence, occasionally at pest levels

********** = most commonly at pest levels

4.4. Location and Extent of Pest Infestation

In spite of being considered a monoculture, the turfgrass environment is actually quite complex and serves as host to a wide variety of organisms. The turf habitat carries a host of soil microbes involved with nutrient and material recycling. They provide the nutritional basis for soil, thatch, and foliar feeding animals. These herbivores in turn serve as "food" for secondary consumers known as predators and parasites.

There are only a few turfgrass organisms known to be potentially damaging as pathogens. These pathogens can be separated and identified as key, occasional, or potential pests. The extent and locality for each pest may be compared to the preliminary threshold levels along with the suggested methods of control. Although some level of control may be warranted, the object is to provide protection of beneficial turfgrass organisms as well. This may be accomplished by tolerating some level of natural pathogens. Allowing build-up of microorganisms and natural fauna will help to balance the network of non-pests in the turfgrass environment. These pests present little or no chance for injury and comprise a vast majority of the insects and mites found in turfgrass today.

Tables 13, 14, 15, and 16 list the pest problems anticipated on the Ferry Point Park Golf Course. They are listed in the order of weeds, disease, and insects. Each pest listed has been given a Pest Index code that determines the probability of impact. A corresponding Frequency Index to determine the degree of likelihood is also provided. Key pests have been ranked for bentgrass, bluegrass, and turf-type fine leaf fescue and are compared with historical pest problems reported from existing golf courses located in the New York/New Jersey metropolitan areas.

Table 13. Location and Extent of Pest Infestation

Pest Infestation Index

a. Weeds - Monocotyledons	Pest Index	Location	Frequency Index
Annual bluegrass	**K**	T F G R	5
Barnyardgrass	P	F R	3
Dallisgrass	**K**	F R	5
Goosegrass	P	F R	4
Green foxtail	O	R	2
Large crabgrass	**K**	F R	5
Purple nutsedge	O	T F R	2
Purpletop	O	F R	1
Quackgrass	P	F R	2
Small crabgrass	P	T F R	4
Timothy	O	F R	1
Yellow foxtail	O	F R	1
Yellow nutsedge	P	F R	4

Table 14. Location and Extent of Pest Infestation

b. Weeds - Dicotyledons	Pest Index	Location	Frequency Index
Black medic	O	R	3
Broad-leaved plantain	**K**	T F R	5
Common chickweed	P	T F G R	3
Common speedwell	O	T F R	3

Frequency of Severe Outbreaks: 1-Low.....5-High

Location Index: T=Tees F=Fairways G=Greens R=Roughs

Pest Index: **K**=Key Pest P=Potential Pest O=Occasional Pest

Table 14 (continued). Location and Extent of Pest Infestation

Pest Infestation Index

b. Weeds - Dicotyledons	Pest Index	Location	Frequency Index
Clover	K	T F G R	5
Curly dock	O	F R	3
Dandelion	P	T F R	4
Ground ivy	O	F R	2
Heal-all	O	F R	2
Henbit	O	F R	1
Knapweed	K	F R	5
Knotweed	P	T F R	3
Lambsquarter	P	F R	2
Mallow	P	F R	3
Mouse-ear chickweed	K	T F G R	5
Nodding spurge	O	T F R	3
Oxalis	O	F R	2
Pearlwort	P	T F G R	2
Plantain	P	F R	4
Poison ivy	P	R	3
Poison oak	P	R	2
Purslane speedwell	O	F R	2
Prostrate spurge	O	T F R	3
Prostrate pigweed	O	T F R	2
Ragweed	P	R	4
Red clover	P	T F R	3
Shepherd's purse	O	T F R	3
Sheep sorrel	P	F R	3
Spotted spurge	O	T F R	2
Stitchwort	O	F R	2
Thistle	O	F R	3
Yarrow	O	T F G R	2
Yellow wood sorrel	O	F R	2

Frequency of Severe Outbreaks: 1-Low.....5-High
Location Index: T=Tees F=Fairways G=Greens R=Roughs
Pest Index: K=Key Pest P=Potential Pest O=Occasional Pest

Table 15. Location and Extent of Pest Infestation

Pest Infestation Index

c. Disease	Pest Index	Location	Frequency Index
Algae [1]	K	T F G	5
Anthracnose	O	T F G	2
Bacterial wilt	P	F R	2
Brown patch	K	T F G R	5
Copper spot	O	T F G	2
Crown and root rot	P	T F G	3
Dollar spot	K	T F G	5
Downy mildew	O	T F R	2
Fairy ring	P	T F G	4
Fusarium patch	K	T F G R	5
Helminthosporium leaf spot	P	T F G R	4
Leaf rust	P	T F G	3

Table 15 (continued). Location and Extent of Pest Infestation

Pest Infestation Index

c. Disease	Pest Index	Location	Frequency Index
Melting out	P	T F G R	3
Moss[2]	O	T G	2
Necrotic ring spot	P	T F G	4
Nematodes[3]	O	T FG	2
Pink patch	O	T F G	2
Powdery mildew	O	T F G R	2
Pythium blights	**K**	T F G	5
Red thread	P	T F G R	3
Slime molds	O	T F G R	2
Snow molds	P	T F G R	4
Summer patch	**K**	T F G R	5
Take all patch	P	T F G R	4
White patch	O	T F R	2

Frequency of Severe Outbreaks: 1-Low.....5-High
Location Index: T=Tees F=Fairways G=Greens R=Roughs
Pest Index: **K**=Key Pest P=Potential Pest O=Occasional Pest

Biotic Agents of Noninfectious Diseases

1 Develops on the surface of overly wet soils. Algae is not a turfgrass disease.

2 Small plants that overgrow and compete with turf when wetness, poor nutrition and soil conditions exist. Moss is not a turfgrass disease.

Nematode Diseases

3 May be diverse and are dependent on the population of plant-parasitic and saprophytic density.

Table 16. Location and Extent of Pest Infestation

Pest Infestation Index

d. Insects	Pest Index	Location	Frequency Index
Annual bluegrass weevil	P	T F G R	4
Ants	O	T F G R	2
Black cutworm	K	T G	5
Bluegrass billbug	P	F R	3
Hairy chinch bug	P	T F G R	2
Sod webworm	P	T G R	3
Bluegrass sod webworm	P	T F R	3
Larger sodwebworm	P	T F G	3
White grubs	K	T F G R	5
Asiatic garden beetle	P	T F G	4
Black turfgrass ataenius	K	T F G R	5
Japanese beetle	K	T F G R	5
May/June beetles	O	F R	1
Northern masked chafer	O	T F G R	2
Oriental beetle	P	T F G R	3
Winter grain mite	O	T F G	1

Frequency of Severe Outbreaks: 1-Low.....5-High
Location Index: T=Tees F=Fairways G=Greens R=Roughs
Pest Index: K=Key Pest P=Potential Pest O=Occasional Pest

4.5 Pest Infestation Thresholds

There will be four major factors, excluding climate, that will determine the thresholds of the anticipated turfgrass pests. They include water quality, soil conditions, pH and the turfgrass species.

Close monitoring of turfgrass during the establishment or grow-in phase will track the existence of potential pathogens. It will be very important to note the baseline information when sufficient crown, leaf stem and thatch layers have developed. During this early stage, an evaluation of turf quality will be necessary. The evaluation should include a cross check for each Preliminary Threshold that has been established in the IGCMP. The evaluation of pest occupancy for the project site should also be completed, and the potential levels of anticipated pest outbreak established.

The Ferry Point Park Golf Course will maintain the greens as a consistent, weed-free turf that is of the highest playing quality, aesthetically appealing, and not impacted by the presence of deleterious pests. "Insect damage to the greens must also be at an absolute minimum but the greens need not be totally free of insects. Allowing limited damage (weeds or insect damage) does carry a risk that the above pathogen may spread which would force the use of a broader control." (Vittum, 1986). To produce high quality turf, it is not necessary to have absolute control over insects and weeds. For example, healthy turf can be sustained with as many as five white grubs per square foot if traffic (wear) is not excessive (Brandenburg, 1989).

A similar level of quality will be required for the tees. Rotation of tee markers is necessary to maintain turf recovery. Therefore, the entire tee must be in a playable condition. Fairways may have a slightly greater amount of pest damage than tees. In the roughs and natural areas outside the fairways, a lower level of maintenance activity, compared to the tees, greens, and fairways, is proposed for insects and fungi.

Once the level of acceptable impairment is defined and the corresponding level of management is instituted, a regular program of inspections is required. The golf course superintendent or assistant golf course superintendent will make daily inspections of the course. This frequency is essential to identify the type and presence of pests early and to keep damage to an insignificant level with the lowest level of response.

4.5.1 Preliminary Threshold Guidelines

Site-specific turf pest thresholds identify the standard of management and establish that BMPs are functioning within the golf course operation. Suggested action levels for different golf course areas are presented in this section.

The suggested thresholds and action levels presented will be refined as actual data from the golf course becomes available. Data collection will begin during the grow-in period as soon as sufficient crown, leaf stem and thatch layers have been developed. During this early stage, the level of pest occupancy for the site should be determined, so that future pest outbreaks can be recognized with a degree of confidence. This is an iterative process and it will take approximately three years of data to refine the preliminary threshold guidelines.

Historical pests and related patterns of existing golf courses are often a good indication of pest density and activity. Existing courses generally provide the turf agronomist the necessary confidence that certain levels of pests are natural and acceptable. To assume otherwise might be considered over-managing, disrupt the true causal agent, and lead to misdiagnosed turf problems.

Table 17 provides preliminary thresholds for weed grasses. Preliminary threshold guidelines have been established for the turfgrass pests anticipated to occur on each playing surface relative to the turfgrass cultivar. Grasses are easier to control in the lower heights of tees and greens. Simple hand removal will often prevent further spread of these grasses. Sedges are more difficult to identify and control and grow closer to the thatch canopy. Under well established turfgrass conditions, these pests should pose minimal problems.

Table 18 lists the probable broadleaf weeds and the recorded levels of density in bentgrass and fine leaf fescue turf. Research will be needed to verify that the levels presented are not only tolerable but obtainable when managing these grasses. Many dicot weeds can be easily removed by hand. For those broadleaves difficult to control in groups or clusters, spot treatment with a wick applicator utilizing a post emergent herbicide will provide excellent control.

Tables 19 and 20 present management techniques once preliminary threshold guidelines are reached for weeds.

Table 21 presents timing for management techniques once preliminary threshold guidelines are reached for turfgrass disease.

Table 22 presents threshold guidelines for insect occurrence. Currently, there are no established industry thresholds for insect and mite pests found on this site. The thresholds for insects and mites are established as a preliminary guide. Local experience will also play a role in the refinement of these threshold guidelines.

Table 17. Suggested Action Levels for Grass Weeds in Different Golf Course Areas in New York

	Number of Weeds per 1,800 sq. ft.			
Weed Species	Tees	Greens	Fairways	Roughs
Grasses				
Annual bluegrass	10	1	10	20
Barnyardgrass	5	1	10	10
Dallisgrass	3	1	5	10
Goosegrass	5	1	10	20
Green foxtail	5	1	10	20
Large crabgrass	5	1	10	20
Purpletop	5	1	10	20
Quackgrass	5	1	10	20
Small crabgrass	1	1	5	10
Timothy	5	1	10	20
Yellow foxtail	5	1	10	20
Sedges				
Purple nutsedge	5	1	10	50
Yellow nutsedge	5	1	10	50

Table 18. Suggested Action Levels for Broadleaf Weeds in Different Golf Course Areas in New York

	Number of Weeds per 1,800 sq. ft.			
Broadleaf				
Black medic	5	1	20	50
Broad-leaved plantain	3	1	10	20
Common chickweed	3	1	10	20
Common speedwell	5	1	20	50
Clover	3	1	10	20
Curly dock	3	1	10	20
Dandelion	3	1	10	20

Note: This table was developed from suggested guidelines by the University of Hawaii and an IPM program written for Lihi Lani by Holtzmann et al., 1991. The IPM plan was later summarized and rewritten by ETS to include this methodology as a means to establish baseline weed threshold counts.

Table 18 (continued). Suggested Action Levels for Broadleaf Weeds in Different Golf Course Areas in NY

Weed Species	Number of Weeds per 1,800 sq. ft. Tees	Greens	Fairways	Roughs
Broadleaf				
Ground ivy	3	1	10	50
Heal-all	5	1	10	20
Henbit	5	1	10	20
Knapweed	1	1	2	5
Knotweed	5	1	10	20
Lambsquarter	3	1	10	20
Mallow	1	1	5	10
Mouse-ear chickweed	3	1	10	20
Nodding spurge	3	1	10	20
Oxalis	5	1	10	50
Pearlwort	1	1	5	10
Plantain	3	1	10	15
Poison ivy	1	1	1	5
Poison oak	1	1	1	5
Purslane speedwell	3	1	10	20
Prostrate spurge	3	1	10	20
Prostrate pigweed	3	1	10	20
Ragweed	1	1	1	2
Red clover	3	1	10	20
Sheep sorrel	3	1	15	30
Shepherd's purse	5	1	10	20
Spotted spurge	3	1	10	20
Stitchwort	5	1	10	20
Thistle	1	1	5	5
Yarrow	3	1	10	20
Yellow wood sorrel	1	1	5	20

Note: Broadleaves in fairway and roughs may be more tolerable and easier to control with higher thresholds counts. Higher levels are unacceptable on tees and greens. Thresholds are much lower for these surfaces but are easily removed by hand at these levels. This table was developed from suggested guidelines by the IPM program written for Lihi Lani by Holtzmann et al., 1991. The plan was later summarized and rewritten by ETS to include this methodology as a means to establish baseline weed threshold counts.

Table 19. Preliminary Threshold Guidelines - Turfgrass Weeds* (Monocotyledons)

Pest	Area	Cultural Management	Chemical Control
Annual bluegrass	Tees/Greens Fairways Roughs	seed head control seed head control seed head control	post emergence post emergence post emergence
Barnyardgrass	Tees/Greens Fairways Roughs	seed head control seed head control seed head control	spot treat spot treat spot treat
Dallisgrass	Tees/Greens Fairways Roughs	mechanical removal mechanical removal mechanical removal	spot treat spot treat spot treat
Goosegrass	Tees/Greens Fairways Roughs	mechanical removal preventive preventive	spot treat spot treat spot treat
Green foxtail	Tees/Greens Fairways Roughs	mechanical removal preventive preventive	spot treat spot treat spot treat
Large crabgrass	Tees/Greens Fairways Roughs	mechanical removal preventive preventive	spot treat spot treat spot treat
Purple nutsedge	Tees/Greens Fairways Roughs	preventive preventive preventive	spot treat spot treat spot treat
Purpletop	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat preventive preventive
Quackgrass	Tees/Greens Fairways Roughs	mechanical removal preventive preventive	spot treat spot treat spot treat
Small crabgrass	Tees/Greens Fairways Roughs	mechanical removal preventive preventive	spot treat spot treat spot treat
Timothy	Tees/Greens Fairways Roughs	mechanical removal preventive preventive	spot treat spot treat spot treat
Yellow foxtail	Tees/Greens Fairways Roughs	mechanical removal preventive preventive	spot treat spot treat spot treat
Yellow nutsedge	Tees/Greens Fairways Roughs	preventive preventive preventive	spot treat spot treat spot treat

* Control of annual grass weeds on bentgrass or bluegrass tees and fairways are best obtained with the use of a preemergent herbicide. Under well established turfgrass conditions these pests should pose minimal problems.

Table 20. — Preliminary Threshold Guidelines -Turfgrass Weeds* (Dicotyledons)

Pest	Area	Cultural Management	Chemical Control
Black medic	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat post emergence post emergence
Broad-leaved plantain	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat post emergence post emergence
Common chickweed	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat post emergence post emergence
Common speedwell	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat post emergence post emergence
Clover	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat post emergence post emergence
Curly Dock	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat spot treat spot treat
Dandelion	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat post emergence post emergence
Ground ivy	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat spot treat spot treat
Heal-all	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat spot treat spot treat
Henbit	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat spot treat spot treat
Knapweed	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat spot treat spot treat
Knotweed	Tees/Greens Fairways Roughs	mechanical removal mechanical removal spot treat	mechanical removal mechanical removal spot treat
Lambsquarter	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat spot treat spot treat
Mallow	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat spot treat spot treat

Table 20 (continued). Preliminary Threshold Guidelines - Turfgrass Weeds* (Dicotyledons)

Pest	Area	Cultural Management	Chemical Control
Mouse-ear chickweed	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat post emergence post emergence
Nodding spurge	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat post emergence post emergence
Oxalis	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat spot treat spot treat
Pearlwort	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat spot treat spot treat
Plantain	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat post emergence post emergence
Poison ivy & oak	Tees/Greens Fairways Roughs	N/A spot treat spot treat	spot treat spot treat spot treat
Purslane speedwell	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat post emergence post emergence
Prostrate spurge	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat post emergence post emergence
Prostrate pigweed	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat post emergence post emergence
Ragweed	Tees/Greens Fairways Roughs	mechanical removal mechanical removal mechanical removal	mechanical removal mechanical removal spot treat
Red clover	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat post emergence post emergence
Sheep sorrel	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat spot treat spot treat
Shepherd's purse	Tees/Greens Fairways Roughs	mechanical removal mechanical removal spot treat	spot treat spot treat spot treat

* Many dicot weeds can be easily removed by hand. For those broadleaves difficult to control in groups or clusters, spot treatment with a wick applicator utilizing a post emergent herbicide will provide excellent control.

Table 20 (continued). Preliminary Threshold Guidelines - Turfgrass Weeds* (Dicotyledons)

Pest	Area	Cultural Management	Chemical Control
Spotted spurge	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat post emergence post emergence
Stitchwort	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat spot treat spot treat
Thistle	Tees/Greens Fairways Roughs	mechanical removal mechanical removal mechanical removal	mechanical removal mechanical removal spot treat
Yarrow	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	post emergence spot treat spot treat
Yellow wood sorrel	Tees/Greens Fairways Roughs	mechanical removal spot treat spot treat	spot treat post emergence post emergence

* Many dicot weeds can be easily removed by hand. For those broadleaves difficult to control in groups or clusters, spot treatment with a wick applicator utilizing a post emergent herbicide will provide excellent control.

Table 21. Preliminary Threshold Guidelines - Turfgrass Disease*

Pest	Area	Cultural Management	Chemical Control
Algae	Tees/Greens Fairways Roughs	upon detection 24-48 hours 48-72 hours	spot treat 72 hours 120 hours
Anthracnose	Tees/Greens Fairways Roughs	upon detection 48-72 hours 48-72 hours	spot treat 96 hours 96 hours
Bacterial wilt	Tees/Greens Fairways Roughs	24-48 hours 24-48 hours 48-72 hours	72 hours 96 hours 120 hours
Brown Patch	Tees/Greens Fairways Roughs	upon detection 24-48 hours 48-72 hours	spot treat 72 hours 96 hours
Copper spot	Tees/Greens Fairways Roughs	upon detection 24-48 hours 48-72 hours	spot treat 72 hours 96 hours
Crown and root rot	Tees/Greens Fairways Roughs	upon detection 24-48 hours 48-72 hours	spot treat 72 hours 96 hours
Dollar spot	Tees/Greens Fairways Roughs	24-48 hours 24-48 hours 48-72 hours	spot treat 72 hours 96 hours
Downy mildew	Tees/Greens Fairways Roughs	24-48 hours 24-48 hours 48-72 hours	72 hours 96 hours 120 hours
Fairy ring	Tees/Greens Fairways Roughs	24-48 hours 24-48 hours 48-72 hours	72 hours 96 hours 120 hours
Fusarium patch	Tees/Greens Fairways Roughs	24-48 hours 24-48 hours 48-72 hours	spot treat spot treat 96 hours
Helminthosporium leaf spot	Tees/Greens Fairways Roughs	24-48 hours 24-48 hours 48-72 hours	spot treat spot treat 96 hours
Leaf rust	Tees/Greens Fairways Roughs	24-48 hours 24-48 hours 48-72 hours	spot treat spot treat 96 hours
Melting out	Tees/Greens Fairways Roughs	24-48 hours 24-48 hours 48-72 hours	spot treat spot treat spot treat

Table 21. (continued) Preliminary Threshold Guidelines -Turfgrass Disease*

Pest	Area	Cultural Management	Chemical Control
Moss	Tees/Greens Fairways Roughs	rake out rake out improve drainage	spot treat spot treat spot treat
Necrotic ring spot	Tees/Greens Fairways Roughs	24-48 hours 24-48 hours 48-72 hours	spot treat spot treat 96 hours
Nematodes	Tees/Greens Fairways Roughs	sample counts sample counts sample counts	needle> 200/100 cc Soil lance> 200/100 cc Soil stunt> 800/100 cc Soil spiral> 3,000/100 cc Soil ring> 3,000/100 cc Soil
Pink patch	Tees/Greens Fairways Roughs	24-48 hours 24-48 hours 48-72 hours	spot treat preventive preventive
Powdery mildew	Tees/Greens Fairways Roughs	24-48 hours 24-48 hours 48-72 hours	spot treat spot treat spot treat
Pythium blights	Tees/Greens Fairways Roughs	upon detection upon detection 24-48 hours	preventive 24-48 hours 48-72 hours
Red thread	Tees/Greens Fairways Roughs	24-48 hours 24-48 hours 120 hours	72 hours 96 hours spot treat
Slime molds	Tees/Greens Fairways Roughs	upon detection 24-48 hours 48-72 hours	spot treat spot treat spot treat
Snow molds	Tees/Greens Fairways Roughs	upon detection upon detection rake out	preventive preventive spot treat
Summer patch	Tees/Greens Fairways Roughs	24-48 hours 48-72 hours 48-72 hours	spot treat spot treat spot treat
Take all patch	Tees/Greens Fairways Roughs	upon detection upon detection upon detection	spot treat spot treat spot treat
White patch	Tees/Greens Fairways Roughs	upon detection upon detection upon detection	preventive spot treat spot treat

* Currently there are no established industry standards for pest threshold guidelines. The following thresholds for insects, weeds and disease are established as a preliminary guide to assist the golf course superintendent in deciding when to choose the appropriate form of control. We fully expect that local experience will result in the refinement of these threshold guidelines. Hand removal of weeds in fairways and roughs can be accomplished by constructing a tool designed to remove the plant and taproot completely.

Table 22. Preliminary Threshold Guidelines - Turfgrass Insects

Area	Pest	Insect Density: Cultural Controls	Insect Density: Curative Controls
Greens/Tees Fairways Roughs	Annual bluegrass weevil	3-5/sq. ft. 5-8/sq. ft. 5-8/sq. ft.	6/sq. ft. 8/sq. ft. 8/sq. ft.
Greens/Tees Fairways Roughs	Ant mounds	1-2/yd^2 N/A N/A	3/yd^2 N/A N/A
Greens/Tees Fairways Roughs	Black cutworm	1-2/sq. ft. 2-3/sq. ft. 3-4/sq. ft.	3/sq. ft. 4/sq. ft. 5/sq. ft.
Greens/Tees Fairways Roughs	Bluegrass billbug larvae	N/A 3-4/sq. ft. 4-8/sq. ft.	N/A 6/sq. ft. 10/sq. ft.
Greens/Tees Fairways Roughs	Hairy chinch bug	10-15/sq. ft. 16-25/sq. ft. 26-30/sq. ft.	12-16/sq. ft. 25-30/sq. ft. 30-35/sq. ft.
Greens/Tees Fairways Roughs	Sod webworms	1-2/sq. ft. 3-4/sq. ft. 5-6/sq. ft.	3/sq. ft. 5/sq. ft. 7/sq. ft.
Greens/Tees Fairways Roughs	Black turfgrass ataenius	20-25/sq. ft. 30-35/sq. ft. 50-60/sq. ft.	30/sq. ft. 40/sq. ft. 60/sq. ft.
Greens/Tees Fairways Roughs	Japanese beetle, Asiatic beetle, May/June beetles & other annual grubs	3-4/sq. ft. 5-8/sq. ft. 8-10/sq. ft.	4/sq. ft. 8/sq. ft. 10/sq. ft.
Greens/Tees Fairways Roughs	Winter grain mite	30-40/sq. ft. 40-50/sq. ft. N/A	50/sq. ft. 60/sq. ft. N/A

4.5.2 Nematodes

High populations of certain species of nematodes may indicate that the root system is in danger or has already been debilitated to a significant extent. A simple count of nematodes, however, is not enough to make an informed determination of whether the threshold has been crossed and what, if any, action should be taken. The threshold levels which justify the implementation of control measures are dependent on the depth of the sample, the species of grasses present, depth of the root system, soil texture, symptoms and extent of damage, presence of other stresses to the turf; and potential contamination of the environment by the nematicide chosen if action is taken (Wick, 1994).

Nematode populations are estimated most accurately with a composite sample. A 3/4 to 1 inch diameter soil probe, or something similar, should be used to sample a depth of four inches throughout the site. This depth is a compromise but represents the population distribution of different species well.

Distribution: Nematodes are unequally distributed in the soil both vertically and horizontally. For example, if assays were done in a transect across a putting green, a series of high and low counts would result. Populations also vary according to the depth at which the sample was taken. A sample at a two-inch depth may have twice the concentration of stunt nematodes as a sample taken at four inches.

Time of Year: During winter months nematode populations decline. As the grass begins to resume growth in the spring, nematodes begin feeding on roots. The reproductive potential of the nematodes increases as the soil temperature rises.

Assay Procedure: It is not possible to extract all of the nematodes from the soil sample. The soil (at least ½ pint) should be placed in a container, such as a plastic bag, to prevent desiccation. The sample number should be clearly identified on the outside of the container as paper tags placed in contact with the soil quickly deteriorate. The sample should be refrigerated or delivered as soon as possible after collection.

At this time there is very little experimental data to establish threshold levels for nematodes in turfgrasses in this area. The numbers of nematodes per 100 cc of soil presented in the Table 23 are based on research from other states as well as from case-history information and survey results. They serve only as a guide.

Table 23. Threshold Levels for Nematodes in Turf

Nematode	Number/100 cc Soil
Needle	> 200
Lance	> 400
Stunt	> 800
Spiral	> 3000
Ring	> 3000

Cyanobacteria and Chlorophyte microalgae in a Kalonite clay base (Turftech II) and a biological liquid inoculum (Precep/Nemastop) are preferred as alternative control measures when populations of nematodes indicate only one or more species have specific high threshold counts. These products biologically increase root zone mass and dispense an irritant within the root that dislodges feeding nematodes.

Nematicide should not be used where contamination of water may occur and should be used only in accordance with the label and local regulations.

4.6 Pest Control Strategies

Once a pest has been located through routine inspection (whether visual, or with aid from disclosing solutions, trapping or disease immunoassay kits) and found to exceed threshold levels, the golf course staff has the information necessary to take action. Even when the infestation is found to be significant, the first corrective action is to evaluate environmental corrections. These include:

- Maintaining balanced nutritional levels;
- Improving microclimates through subsurface drainage, aerification, and increasing air movement and sun penetration;
- Reducing cultural management stresses by limiting scalping of turf, keeping mower blades sharp, and adjusting or raising mowing heights when necessary; and
- Calibrating replacement of water in order to control the build-up of total dissolvable salts in soils and minimize leaching.

If environmental factors have been optimized but infestation(s) still exceed acceptable thresholds, an incremental approach is indicated, starting with measures that have the smallest overall impact on the environment. Simple ideas often achieve desirable results. Hand removal of weeds or spot application with a wick-type applicator are two examples of minimalist response. The golf course superintendent might reexamine fungicide management and develop new IPM strategies as needed to reduce disease pressure. New approaches might also assist in reducing fungicide resistance in turfgrass. Other approaches include maintaining insect populations within tolerable levels through the use of biologically synthesized insect and

mite controls, or establishing populations of natural enemies, including microbial endophytes, insect parasites and other predatory nematodes. Natural enemies such as birds, mammals, and amphibians can also be supported, often through simple means.

4.6.1 Biological and Organic Controls

The turfgrass environment usually contains a large number of beneficial biological micro-organisms, insects, mites and spiders. If these organisms are not destroyed by insecticides or other chemicals, they can often control the insects and mites which damage the turf. In some cases, these beneficial insects look like pests and inexperienced managers may actually apply a pesticide. Therefore, it is important that one learn to differentiate the "good" bugs from the "bad" bugs. A number of diseases that attack turf insects can also be useful. These biological controls often take longer to do the job and may provide a reduced level of control. This should be acceptable, however, because of the reduction in the use of pesticides and lack of harm to non-target insects.

The release of parasitic organisms without the proper agency approval is strictly prohibited. The golf course superintendent must obtain the necessary permits and/or authorizations as required by New York State and by the State Department of Agriculture before applying any experimental biological, parasite or predator defenses. The Department of Agriculture will also be consulted about known successes or failures with the use of these products for turfgrass control.

4.6.2 Common Predators and Parasites

Ferry Point Park Golf Course's IPM program is designed to preserve native insects that prey on pest populations. Unfortunately, most of these predators and parasites are very susceptible to many conventional pesticides. Caution must therefore be used when applying turf insecticides since these treatments can kill beneficial predators and lead to outbreaks of other pests.

On the Ferry Point site, earwigs, ground beetles, rove beetles and lady beetles are expected to be significant predators.

Earwigs: Earwigs nymphs and adults attack sod webworms and cutworms as well as a variety of other soft bodied insects. Earwigs require plant material or other cover in order to hide during the day and can be encouraged through provision of proper shelter.

Ground Beetles and Rove Beetles: These voracious predators feed on eggs and any insect they can subdue. Both adults and larvae are predators and are probably the most common natural control for caterpillars that attack turf. The primary means of encouraging beetles is through limiting insecticide applications or using spot treatments of insecticides in lieu of broadcast spraying. Recent studies indicate that these beetles rapidly reestablish into an area after pesticide usage if refuge sites are provided.

Lady Beetles: Lady beetles, like green lacewings, commonly inhabit trees and shrubs although they are occasionally found feeding on aphids and mites in turf. Releasing lady beetles is not recommended, however, since the commercially available species do not prefer turf habitat.

4.6.3 Common Pathogens

Most turf insect pests have natural diseases which periodically control their populations. A few of these pathogens require some special handling or application technique in order to be fully effective. It is imperative that the instructions for their use are carefully followed.

4.6.4 Insect Parasitic Nematodes

Microscopic nematodes which attack grubs have been recognized since the 1930s. Until recently, however, no one had identified an easy method to propagate or apply these parasites. Nematodes are now being produced in large quantities and several strains have been identified which will kill sod webworms and cutworms, billbugs, and the white grubs. These nematodes search out insects and enter their bodies through natural openings or by drilling through the cuticle. Once inside the body, the nematodes release a bacterium which kills the pest within hours. The nematodes then complete their development and produce new infective juvenile nematodes. Fortunately, these biological control agents only infect insects and will not harm the turf or other larger animals, including humans.

Exhibit® is a commercially available source of parasitic nematodes. It should be applied to the greens at a rate of 3.4 gallons per 1,000 square feet. As with all biological controls, care must be exercised to get the best results with parasitic nematodes. The active juveniles are very susceptible to drying and sunlight. Therefore, they should be applied to the turf with considerable water, preferably in the morning or evening and should be immediately soaked into the turf with a heavy irrigation. The strains selected must be the most active against the turf caterpillars, billbugs or white grubs.

4.7 Cultural Control Tactics in Turfgrass

Cultural control tactics involve modifying the environment so that it is less suitable for pests. Cultural practices range from the initial selection of the grass cultivar through thatch control, properly balanced soil chemistry, proper nutrient management and efficient water management. All of these elements serve to reduce the need for pesticides.

The cultural practices recommended for this golf course include the following:

- Proper pH and electrolytic balance of soils will be established and maintained to provide optimum growing conditions;
- Air circulation, water relationships, and exposure to sunlight will be analyzed during planning and construction, and improved in areas under stress during normal operations;
- Proper surface and subsurface drainage will be established to reduce excessive water from accumulating

on the playing surface or rootzone;

- Adequate tee and green size will be provided to accommodate traffic wear and reduce areas of compaction from use by the playing public;
- Irrigation water will be applied in an appropriate and timely manner;
- Misting by means of the irrigation system will be used to control the rate of evapotranspiration and heat stress;
- Soil amendments (gypsum, sulfur, sulfuric acid, etc.) will be applied to maintain soil structure and drainage; and
- The golf course management team will inspect the site daily to identify any potential pest problems.

4.7.1 Thatch

One cultural effort that will greatly improve the result of other strategies is the control of thatch. Thatch provides a hiding place for many pests. It maintains a humidity zone for sod webworms, cutworms, and chafer beetles, and is partially used as food by billbug larvae and grubs. Thatch also hinders the movement of pesticides or biological controls applied to control grubs. Control of thatch promotes better water movement to the turfgrass roots while allowing the soil to dry more effectively between waterings which eliminates or reduces the chances for the grass to act as a site for algae and fungi growth (Daar, 1982).

Thatch also has beneficial qualities. Some thatch on playing surfaces is desirable because of its cushioning and filtering effects. Its shade helps protect the soil. In addition, the proper amount of thatch enhances the biological active zone. This in turn will help to deactivate undesirable residual chemical and fertilizer products.

Dethatching, vertical mowing, sand topdressing, biologically active enhancers (described on the following page), grooming and brushing are the primary methods used to control and maintain the desired thatch level at Ferry Point Park Golf Course. Vertical mowers and/or groomers will be installed on green and tee mowing equipment allowing the course to be dethatched on a regularly scheduled basis. In addition, aeration of the surface soils will be used to reduce thatch by relieving compaction and helping in the exchange of gases and fluids to the turf. Aerification is a process of opening passageways from the surface of the turf cover through the soil and into the root zone. In turfgrass, it is the equivalent of cultivation (plowing/discing) in agriculture. Since golf courses are subject to traffic (walkers, carts tractors, etc.), the upper soil profile has a tendency to compact and create inadequate soil pore space. Often, this will restrict the passageway of air and water into the root zone.

4.7.2 Biostimulant/Stress Management

Biostimulant/stress management products will be considered for use within the Ferry Point Park GCMP on an as-needed basis. Many products are available. Some serve to increase the turfgrass plants' ability to resist disease pressures and environmental stress. Others will be useful for enhancement of soil

microbes and/or drainage. Reducing stress and activating beneficial soil microorganisms, in turn, serve to increase the turfgrass' ability to counter disease, weeds, and insects, reducing the need for pesticides.

The following materials are intended to provide stress-specific assistance in the management of turfgrass, and to assist the golf course superintendent in the reduction of pesticide usage. These alternative materials are particularly useful in the maintenance of high traffic areas such as tees and greens. As time progresses and the soil ages, the use of these modification materials may prove to be particularly beneficial for turfgrass hardiness.

AquaTreat is a balanced blend of selected natural bacteria, bacterial enzymes, nutrients and synergists developed specifically to enhance water quality. They use only non-living organic matter as food sources. They have not been genetically altered or manipulated in any manner. The cultures are completely safe, and will not harm humans, plants, animals, birds, or the environment. The product alleviates odors, digests sludge, and keeps water algae free. It is manufactured by TerraBiotics L.P.

Bovamura is a liquid organic manure fertilizer that promotes deep root development and encourages tillering. It may be used for root development on newly sodded areas. It supports the development of soil microorganisms and transforms nutrients to usable plant food. It is manufactured by the PBI Gordon Corporation.

Bio.Trek 22G with the active ingredient *Trichoderma Harzianum* is the first commercially available biological disease control agent for turfgrass in the United States. The product is registered and suitable as a partial substitute for some turfgrass fungicides. The product is produced by Wilbur-Ekkils in Fresno, California.

Bio-Safe Organic 3 in 1 attacks insects by plugging their breathing tubes and causing asphyxiation. The product is registered for fleas, ticks, cockroaches, ants, scorpions, aphids, and beetles. The material is produced by American Weilness, Inc. in Carrollton, Georgia.

Cruiser is a bioinsecticide containing the host seeking *Heterorhabditis bacteriophora (Hb)* nematodes for effective control of Japanese beetle larvae and other white grubs in turf and flower beds. The product is produced by Ecogen, Inc.

Eco Soil Systems, Inc. produces a bioject golf course program for disease management, plant growth enhancement, sodium reduction and nematode suppression. The Bioject BioReactor is rented on an annual basis to inject large quantities of beneficial microbes directly into the golf course irrigation system. A developed strain of *Pseudomonas aureofaceans* plays an important role in the reduction of fungal diseases.

Tx-1 plays an important role in the reduction of fungal disease. *Azospirillum brasilense* microorganisms are used to incorporate N_2 and release ammonia (NH_4) and nitrate (NO_3). The presence of *Azospirillum* provides for healthier turf through nitrogen fixation, production of plant growth regulators, and colonization on the rhizoplane.

Epoleon is an organic deodorizer and neutralizer. This product stabilizes compounds so they are not re-released into the atmosphere. It is manufactured by the Epoleon Corporation of America.

Essential contains a high percentage of carbon-rich organic materials and humic acid. The product contains intermediate metabolites, metabolites, simple sugars, peptides, amino acids, enzymes and amides, humate, lignin, organic chealates and cellulose fiber, all found in the natural stages of organic matter decomposition. The product is manufactured by Growth Products®.

Green-Releaf produces a group of natural microbes that form a symbiotic relationship with plant roots. Plant performance is enhanced by facilitating the uptake of nutrients and water while simultaneously aiding in pathogen defense. The products assist with reducing traditional fungicide applications.

GroZone is a calcined clay soil conditioner for the root zone. The material retains moisture to minimize stress from prolonged droughts and reduces watering requirements. It helps to increase nutrient retention, prevent compaction and creates a strong environment for healthy roots. It is manufactured by the American Colloid Company.

Isolite porous ceramic is a root zone modification material designed to improve water conservation and increase capillary porosity. It provides a low cation exchange capacity that will not tie up nutrients and helps to leach salts. It is typically used as a soil amendment during construction or aerification. It is manufactured by the Innova Corporation, an affiliate of Sumitomo Corporation of America.

Netlon mesh element may be used to increase macro-pores. The mesh is used to increase strength and provide increased stability on slopes. The filaments also open continuous pore space and may be a potential amendment that may be rototilled into the soil. It is manufactured by Netlon, Ltd. England.

NoburN is an organic wetting agent that loosens compacted soils. It helps to alleviate localized dry spots and hydrophobic conditions but does not have to be watered in, unlike synthetic wetting agent materials. It is derived from the desert Yucca plant and is manufactured by Roots Inc.

Organica, Inc. produces plant growth activators, insect control agents, humic acids, insecticidal soaps and seaweed and kelp activators. The products are designed to assist turfgrass managers with alternative control agents. The company furnishes substantial information on product evaluation and field trials, with evaluations and test results for agricultural and greenhouse pests. The company is actively seeking expansion within the turfgrass industry and has been working in California for specific pest controls in agriculture and related food crop activity.

PanaSea and PanaSea Plus utilize liquefied sea plant extract to stimulate root growth and aid in the reduction of thatch. Natural growth hormones (cytokinin) work to make the turfgrass more resistant to stress. The product works to speed release of the lemma during seed germination. It is manufactured by Emerald Isle Ltd.

P2 is a synthetic polymer which acts as a water absorbent and retention material. This can be used to help raise the waterholding capacity and help lower the bulk density of the soil. It is distributed by Broadleaf Industries.

Pro^2/Oxygen Plus provides oxygen to control stress encountered with anaerobic soils. There are several

groups of anaerobic microorganisms which are pathogenic in plants. These organisms thrive in the absence of oxygen. The release of oxygen into the soil environment is a practical method for control. It is manufactured by Plant Research Laboratories.

Profile is a ceramic product engineered to solve and prevent soil problems. Profile increases water retention and nutrient holding because of the capillary pores and the cation exchange capacity. The product improves root zones by adding water, nutrient, and air holding capacity. It is designed to be used during construction, after aerification or to improve topdressing blends.

Sand-Aid is a natural organic sea plant soil conditioner. It may be used to decrease nutrient leaching and increase fertilizer efficiency. It may be incorporated into the soil mix of new green construction or applied as a topdressing constituent. It is also manufactured by Emerald Isle Ltd.

Spectrum is a mix of 24 species of live beneficial micro-organisms containing beneficial acids and amino acids that assist with reducing toxicity levels in soil and allow the plant to create greater resistance to pathogens and pests. The product is produced by Tainio Technology & Technique, Inc. in Cheney, Washington. The company produces a series of biological soil amendment and turf care products.

Turftech II utilizes nitrogen fixing bacteria (cyanobacteria) and may contribute as much as one pound of nitrogen per 1,000 square feet over a 60 day period. It may help to suppress disease causing fungi and bacteria and reduce the need to apply additional forms of nitrogen. Normal phosphorous and potassium is still required. It is manufactured by Soil Technologies Corporation.

While each of the products above offers important contributions to biostimulation and stress management, they are useful only within an overall testing and conditioning program. Soil, plant tissue and water quality will be tested at least twice a year to obtain an ongoing evaluation of the nutrient and electrolytic balance. Testing will also provide answers on sodium content, pH, etc. of the soil which will guide the maintenance staff on the use of soil enhancements.

For example, the presence of a pH imbalance can make nutrient supplies unavailable through chemical insolubility or fixation. When this condition is found, the proper answer may be to address the pH level rather than to increase nutrients. Similarly, adequate nitrogen is needed to produce rapid enough growth to recover from traffic associated with play. Too much nitrogen, on the other hand, can increase thatch and create thin cell walls resulting in susceptibility to certain fungus. In the spring and fall, higher quantities of phosphorous are needed to increase root depth and mass. Higher potassium is needed in the summer to increase cell wall thickness. Too little nitrogen, potassium, phosphorous, micronutrients, etc., can lead to disease. All of these factors influence the selection of soil enhancements just as they determine the choice of fertilizers or other management chemicals.

4.8 Mechanical Control Program

Mechanical controls are often the most easily instituted and followed techniques for improving the turfgrass environment. Suggested mechanical controls include the use of some or all of the following types of equipment and practices:

- Core aerification
- Shatter-Core aerification (shallow and deep tine with solid tines)
- High pressure water injection aerification
- Spiking/Slicing
- Dethatching (heavy thatch removal)
- Vertical mowing (light thatch removal)
- Grooming
- Brushing
- Proper mowing heights
- Proper mower blade sharpening
- Proper equipment repair

Poor turfgrass growth is often due to imbalances in water, carbon dioxide and oxygen exchanges. Aerification typically remedies this.

Appropriate aerification can alleviate compaction and alter soil bulk density which inhibits root development. Historically, shatter core aerification has been used when persistent compaction problems warranted deeper aerification. With shatter core aerification, the presence of soil/sand on the canopy of the leaf surface must be minimized. The recent advent of high pressure water injection provides an increased safety margin for aerification on greens and tees during summer months. Comparative field testing is currently underway to determine the benefits derived when choosing this form of aerification. One minor disadvantage from hydro-injection aerification is the disturbance of lower profile particle fines or sand or gravel displaced onto the putting green surface. While no form of aerification is trouble free, the machine currently produced by the Toro or Cushman/Ryan Corporation allows aerification to be completed with the least amount of disturbance to the playing surface.

Aerification should be performed in the late spring (April-June), and again in the early fall (September-October) to manage routine problems. This timing is important. If aerification is performed too late in the summer, it can cause heat related stress, resulting in slow recovery which can encourage weed infestation and insect pest pressure. Summer aerification with traditional core aerifiers will increase direct sun exposure along with elevated evapotranspiration values. This may result in desiccation, turf damage, and a plant more susceptible to disease or pest invasion.

Consistent mowing heights and proper bedknife adjustments must be maintained throughout the growing season. No more than one third of the leaf blade should be routinely removed in any single mowing. Alternate mowing equipment will be used during periods of excessive soil wetness to maintain these consistent mowing heights. Mowing frequency will increase during the spring, generally following 7-21 days after fertilizer applications. During cooler conditions and hot and dry periods, mowing frequency may decrease. Mowing frequency will also be reduced during inclement weather to keep mechanical damage to a minimum.

Clippings will not be accumulated adjacent to play areas. This policy will minimize cross contamination of grasses near wetlands and encourage composting of the turfgrass clippings.

The commercial turfgrass equipment purchased for the golf course will be certified to meet the American National Standard Institute's (ANSI) voluntary safety specifications, B71.4-1984 and applicable regulations based thereon. Mowers will be adjusted, sharpened and inspected according to the manufacturer's specification in order to provide optimum cutting performance. The use of Wiehle rollers may be included on equipment used to mow tees, fairways, and greens. This will aid in the control of excessive thatch and promote underground shoots or tillers of the seeded bentgrass. Solid rollers should be used during the grow-in period. All turfgrass will be maintained at a cutting height which produces an optimum playing surface.

The range of heights listed in Table 24 are typically maintained for Kentucky bluegrass, fescue and bentgrass surfaces. A range of optimum heights has been provided to adjust for periods of dormancy and stress.

Table 24. Turfgrass Maintenance for Ferry Point Park Golf Course

Area	HEIGHT OF CUT	MOWING FREQUENCY	(X) WEEKLY
TEES	3/8"-5/8" (for bentgrass) (9.53 - 15.88 mm) 3/4"-1" (for bluegrass) (19.05 - 25.40 mm)	M W TH F	(3-4) with baskets
FAIRWAYS	3/4"-1" (19.05 - 25.40 mm)	M T TH F	(3-4) with baskets
GREENS	7/64"-7/32" (2.78 - 5.56 mm)	(M) T W TH F S S	(6-7) with baskets
ROUGH	1.50"-3.00" (38.10 - 76.20 mm)	M T (W) TH F	(1-2) no baskets use vacuum rotary decks

It is recommended that Ferry Point Park Golf Course consider the use of electric mowers where they are deemed practical. These newly introduced machines provide operator comfort, improvements in air quality and noise abatement. The Ransome E-Plex is now available for maintaining greens and tee mowing. The Smithco company provides an electric trap rake for projects that are located near residential or urban areas addressing noise abatement issues. Most major turfgrass companies provide electric transportation vehicles for golf course employees including golf carts and golf shuttles convertible for such use.

A variety of mowing equipment will be used to prevent matting, compaction and/or frequency marks. Equipment used to mow tees will be low compaction, light-weight mowers. They will be provided with optional grooming attachments, five to eight blade reels, and grass catchers. A combination of triplex mowers and lightweight five-gang mowers will be used on fairways. High frequency, eight to eleven blade cutting units with hydraulically driven reels will be used to maintain the fairway playing surface. Walk-behind mowers

causes less compaction, improve the quality of cut, and reduce turfgrass stress when compared with continual use of triplex mowers. Clean up passes around the edge of the green will be altered to allow upright growth and prevent what is known as tracking. Two types of mowers (reel-type and rotary) will be used to maintain roughs and general use turf. Ground driven or hydraulic reel mowers will be used to maintain areas adjacent to the secondary roughs. Areas adjacent to bunkers, greens, and tees may require the use of a hydraulic rotary or reel driven mower. The mowers selected will provide a uniform cut with a minimum of wear and compaction damage. They will maintain quality playing conditions and remove a maximum one third of the total leaf blade during each mowing.

The most critical part of the mechanical control section of this IGCMP is proper mowing height adjustment and mower cutting quality. Mowers must be maintained so that leaf blades are cut and not torn off. Mower blades must be sharp. Lacerated leaf ends will increase the possibility of pathogen invasion. Extensive irregular separation of leaf tissue gradually increases a process known as chlorosis. Proper mowing heights are also paramount to the management of healthy turf. Table 25 establishes reel adjustment and the minimum frequency schedule to follow prior to mowing. With the advent of variable clip control reels and reverse reel backlapping features installed on the latest hydraulic lightweight mowers, the following schedule should be part of the normal mechanical and maintenance mowing operations.

Table 25. Turfgrass Mower Reel Adjustment and Tuning Frequency

Mowers	Periodic Adjustments	Minimum Backlapping	Minimum Grinding
Greens	Daily	As Needed	As Needed
Tees	Daily	As Needed	As Needed
Fairways	Daily	As Needed	As Needed
Roughs	Daily	As Needed	As Needed

4.9 Summary of Cultural/Mechanical Controls

The following will be used as interrelated cultural practices:

- Mechanical spiker will be used to promote root growth, reduce the incidence of water puddling, and provide beneficial oxygen to the crown area;
- Vertical mowers will be used to control excessive areas of thatch (more than 1" or 2.5 cm on fairways/roughs; more than 3/8" or 1.25 cm on tees; more than 1/4" or 1 cm on greens);
- Brushes will be used to provide upright shoot growth and prevent matting;
- Coring machines or an aerifier will be used to eliminate compacted soils and prepare the site for topdressing or overseeding;

- High pressure water injection aerifier will be used in periods of stress or when the practice may help reduce the need to apply a pesticide;

- Mechanical renovator on fairways and roughs will be used to control excessive thatch. Seeding or sodding will be used as a preventive means to control unwanted species of weeds wherever possible;

- Topdressing will be applied periodically to all tees and greens, depending on the growth and thatch conditions of the respective areas. Wear patterns (divots) on tees will be topdressed and seeded. Markers will be moved daily to allow sufficient time for the surfaces to recover. This practice will help to eliminate the establishment of weeds that are the result of continual wear;

- Greens will be topdressed as deemed necessary by the golf course superintendent. The rate of top-dressing will be directly proportional to the need to control thatch or achieve smoothness;

- Topdressing material will be of the same material as indicated in the original specification plan for new construction of golf course greens. The use of identical sand as supplied for original construction is preferred. The lack of an organic matter is permissible as long as the material is of the same particle size distribution; and

- Topdressing will be used to level playing surfaces, improve root structure when coring, and to control thatch and protect new seedlings. Spot topdressing will be the practice for those areas in fairways with exposed native soils.

Chapter V

Chemical Controls and Handling at Ferry Point Park Golf Course

The need for pesticides, in most cases, is the direct result of failures from other control measures. However, imbalances may occur from time to time which require the use of chemicals to manage turf pests. Also, some pests and diseases are expected to require the use of fungicides and herbicides, and perhaps insecticides as well, regardless of the success of other control measures. Snow molds *(Typhula incarnata; T ishikariensis)* fusarium blight *(Fusarium spp.)* and pythium blights *(Pythium sphanidermatum; P. ultimum)* are all fungus diseases that require preventative applications of fungicides.

5.1 Risk Mitigation

The golf course is designed to ensure that surface runoff will not directly discharge to adjacent surface waters even under intense storm conditions. There will be no direct drainage path to the East River or other surface water features from either the golf course or the lakes. To ensure groundwater protection, infiltration below greens and tees will be filtered through peat/sand filter systems before it reaches the water table.

5.2 Methods of Selecting Chemicals

Chemical controls include herbicides, fungicides, insecticides and miticides. Modern pesticides have changed dramatically in recent years and special care must be taken to get the maximum efficacy out of them. At Ferry Point Park Golf Course, only pesticides with short residual activity periods (those which decompose rapidly) have been recommended. Insecticidal soaps and parasitic nematodes are recommended for insect and mite control.

Implementation schedules describing various levels of management are provided in Tables 26 and 27. Table 28 quantifies the specific chemical usage and the probable number of acres to be treated. The chemicals, rates, areas of application, and the pest treated are described as probable worst case situations. A more reasonable set of assumptions for pesticide usage implementing successful IPM is discussed in Section 4 of this chapter: "Anticipated Reduction of Pesticide Use with IPM."

The selection process for each pesticide was based on chemical effectiveness, registration for use in New York, and regional experience. Environmental safety considerations were also important in selecting chemicals for this plan. Sources used to obtain product information include: scientific literature, industry periodicals, environmental fate data, EPA pesticide registration standards, and manufacturers' literature (including technical reports, material safety data sheets, product labels and fact sheets, and communications with manufacturers'representatives). Pertinent information was first taken from primary and secondary scientific literature. The data from current literature and EPA reports were given preference over data provided by manufacturers.

5.3 Weather Stations & Computer Models

In addition to the proposed scouting activities, the Ferry Point Park Golf Course will install a weather, news and chemical information system such as the DTN Weather Center System or other similar models. The computer model system software will be integrated into the proposed state-of-the-art turfgrass irrigation system mainframe and will be designed to collect site specific information relative to turfgrass pests and to create an internal database for chemical and nutrient applications.

Table 26. Implementation Schedules for Ferry Point Park Golf Course

LEVEL OF MANAGEMENT: "High Maintenance"

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
GREENS AND TEES												
Golf Course Growth and Use Period:												
- use period				———	———	———	———	———	———	———	———	
- leaf growth				- - -	———	———	———	———	———	———	- - -	- - -
- root growth				- - -	———	———	———	———	———	- - -	- - -	
Irrigation Period:												
- routine appl'n (2-3 x's/week)		- - -	- - -	- - -	- - -	———	———	———	- - -	- - -	- - -	- - -
Fertilizer:												
- water soluble				- - -	- - -	- - -	———	———	———	- - -	- - -	- - -
- slow release			- - -	- - -	- - -	- - -	———	———	———	———	———	———
Soil Amendments:												
- liming/gypsum				———	———	———				———	———	
Pesticides:												
(Group I) Herbicides												
preemergent					- - -	———						
postemergent												
- monocotyledons					- - -	- - -	———	———	- - -	———	———	
- dicotyledons					———	———	———	———	———	———	———	
- hand picking				———	———	———	———	———	———	———	———	
(Group II) Insecticides												
- soil borne insects					———	———				———	———	
- chewing, rasping, sucking insects							———	———	- - -	———	———	
(Group III) Fungicides												
- leaf disease			———	———	———	———	- - -	- - -	- - -	- - -	———	
- patch disease				- - -	- - -	- - -	———	———	———	- - -		
- root disease				- - -	- - -	- - -	- - -	———	———	———	- - -	- - -
Core Aerification			———	———	———					———	———	
Spiking/Hydrojection					- - -	- - -	- - -	———	———	- - -	- - -	- - -
Verticle Mowing				- - -	———	———	- - -	- - -	- - -	———	———	

Key: ——— most likely time of occurrence
- - - possible time of occurrence

Table 27. Implementation Schedules for Ferry Point Park Golf Course

LEVEL OF MANAGEMENT: "Medium Maintenance"

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
FAIRWAYS AND ROUGHS												
Golf Course Growth and Use Period:												
- use period												
- leaf growth												
- root growth												
Irrigation Period:												
- routine appl'n (2-3 x's/week)												
Fertilizer:												
- water soluble												
- slow release												
Soil Amendments:												
- liming/gypsum												
Pesticides:												
(Group I) Herbicides												
preemergent						SPOT TREAT ONLY						
postemergent												
- monocotyledons												
- dicotyledons												
- hand picking												
(Group II) Insecticides												
- soil borne insects												
- chewing, rasping, sucking insects												
(Group III) Fungicides												
- leaf disease												
- patch disease												
- root disease												
Core Aerification												
Spiking/Hydrojection												
Verticle Mowing												

Key: _____ most likely time of occurrence
_ _ _ possible time of occurrence

Table 28. Projected Maximum Pesticide Use for Ferry Point Park Golf Course During the First Five Years of Operation.

I. Herbicides (Tees/Fairways/Roughs)

Common Name	Trade Name	Recommended Rate/App. lb a.i./Ac	Projected No of Apps/Yr (Maximum) lb a.i./Ac	Projected Maxiumum Total a.i./Ac/Yr	Maximum Acres Treated	Areas Treated
Glufosinate-ammonium	Finale®	0.031	2 x's/yr	0.062	10.00	spot treat
Dithiopyr	Dimension®	0.50	1 x's/yr	0.50	50.00	F R
Fenoxaprop-ethyl	Acclaim® EC	0.032	2 x's/yr	0.064	50.00	F R
Pendimethalin	Scotts 60® (wdg)	1.50	1 x's/yr	1.50	40.00	T F
Siduron	Tupersan®, O.M. Scott®	3.00	1 x's/yr	3.00	40.00	T F
2-4-D	W.A. Cleary's®, ISK Turf Care®	1.00	2 x's/yr	2.00	35.00	T F R
	Trimec Classic®	1.23	1 x's/yr	1.23	35.00	T F R
MCPP	Trimec Classic®	0.65	1 x's/yr	0.65	35.00	T F R
	W. A. Cleary's®, ISK Turf Care®	0.48	2 x's/yr	0.96	35.00	T F R
Dicamba	Trimec Classic®	0.12	1 x's/yr	0.12	35.00	T F R
	Banvel®	0.50	1 x's/yr	0.50	11.50	T G

II. Insecticides (Tees/Greens/Fairways/Roughs)

Azadirachtin	Turplex® Scott's (Neem)	0.70	2 x's/yr	1.40	11.50	T G
Bacillus thuringiensis	Bio-bit®	0.25	3 x's/yr	0.75	50.00	F R
Chlorpyrifos	Dursban® (wsp)	1.00	1 x's/yr	1.00	5.00	G
Cyfluthrin	Tempo®	0.25	1 x's/yr	0.25	11.50	T G
Halofenozide [1]	Mach 2®	1.50	2 x's/yr	3.00	35.00	T F G
Imidacloprid	Merit 75® (wsp)	0.30	2 x's/yr	0.60	35.00	T F G
Parasitic Nematodes [2]	Exhibit®	1B/Ac	2 x's/yr	2B/Ac	5.00	G
Spinosad [3]	Conserve®	0.50	1 x's/yr	0.50	35.00	T F G
Potassium Salts of Fatty Acids	M-Pede®	1.35	2 x's/yr	2.70	48.00	F

Note: These products have been selected and are projected at rates consistent with our "worst case philosophy." These rates were used to calculate dilution for leaching and runoff. Recommendations on these application rates will be addressed in the Water Quality Risk Assessment section WSP = water soluble packets. WDG = water dispersible granule.

[1] Newly approved EPA registration
[2] Applied at 150 gal/ac or 3.4 gal/1,000 ft^2.
[3] Newly approved EPA registration

Table 28 Projected Maximum Pesticide Usage For Ferry Point Park Golf Course (Continued)

III. Fungicides (Tees/Fairways/Roughs)

Common Name	Trade Name	Recommended Rate/App. lb a.i./Ac	Projected No of Apps/Yr (Maximum) lb a.i./Ac	Projected Maxiumum Total a.i./Ac/Yr	Maximum Acres Treated	Areas Treated
Azoxystrobin Technical	Heritage® 50 WG	5.00	2 x's/yr	10.00	50.00	T F G R
Chloroneb	Scotts Fungicide IX®, Terraclor 75% WP®	8.15	1 x's/yr	8.15	35.00	T F G
Etridiazole	Koban® 30, Terrazole®	11.44	1 x's/yr	11.44	35.00	T F G
Fenarimol	Rubigan®	1.36	2 x's/yr	2.72	35.00	T F G
Flutolanil	ProStar® 50 WP	8.00	2 x's/yr	16.00	35.00	T F G
Fosetyl-AL	Aliette (wsp)	17.42	1 x's/yr	17.42	11.50	T G
Iprodione	Chipco® 26019 FLO	2.72	4 x's/yr	10.88	50.00	T F G R
Myclobutanil	Eagle®	0.65	2 x's/yr	1.30	35.00	T F G
PCNB	Scotts FFII, Turfcide® 10%	21.34	1 x's/yr	21.34	11.50	T G
Propamocarb	Banol®	8.16	1 x's/yr	8.16	11.50	T G
Propiconazole	Banner®	1.10	3 x's/yr	3.30	50.00	T F G R
Thiophanate-methyl	Cleary's® 3336 (wsp)	2.72	4 x's/yr	10.88	35.00	T F G
Trichoderma Harzianum	Bio-Trek 22 G®	0.75	3 x's/yr	2.25	48.00	F
Triadimefon	Bayleton®25 (wsp)	5.50	3 x's/yr	16.50	50.00	T F G R
Vinclozolin	Curlan®	3.00	2 x's/yr	6.00	50.00	T F G R

IV. Growth Regulators (Fairways, Greens)

Cimectacarb	Primo®	0.25	2 x's/yr	0.25	48.00	F
Fluprimidol	Cutless 50W®	1.00	1 x's/yr	1.00	35.00	T F G
Paclobutrazol	Scotts TGR®	0.53	1 x's/yr	0.53	50.00	F R

Note: These products have been selected and are projected at rates consistent with our "worst case philosophy." These rates were used to calculate dilution for leaching and runoff. Recommendations on these application rates will be addressed in the Water Quality Risk Assessment section. WSP = water soluble packets. WDG = water dispersible granule. The outlined quantities on Table 28 reflect as much as 50% more chemical product than what is actually anticipated during rou maintenance. The turf chemicals listed represent the potential pesticides that will be used over a 5 year period.

[1] Newly approved EPA registration
[2] Applied at 150 gal/ac or 3.4 gal/1,000 ft².
[3] Newly approved EPA registration

5.4 Other Factors Relative to Chemical Use

5.4.1 Influence of Thatch

Matted thatch can become dry and difficult to wet, in some cases causing the surface irrigation to run off. Ferry Point Park Golf Course will use cultural methods to prevent excessive thatch development.

5.4.2 Enhanced Degredation

Certain pesticides do not seem to work as well as they originally did. At first, people theorized that the pests had become resistant. Laboratory tests, however, have found that resistance is not a factor. Rather, it appears that most of the modern pesticides are broken down naturally by soil microbes, bacteria and simple fungi which have learned to break down these pesticides and use the by-products as a food source. This problem is called "enhanced degradation." It also appears that microbes may be able to degrade several pesticides after adapting to a particular one, a phenomenon known as "cross degradation."

Enhanced degradation seems to occur most commonly when the same pesticide is used repeatedly, especially during the same season. Reduced use of chemicals through IPM may mitigate the problem. Whenever feasible, the golf course will avoid repeated use of the same chemicals in an effort to limit enhanced degradation. Research by manufacturers and experiences at other golf courses will also be monitored for strategies to minimize this problem.

5.4.3 Irrigation

Irrigation after applications of insecticides or miticides to turf is very important to the success or failure of control. Though one must follow the instructions on the current label of the product used, there are some generalizations which can be made. Most surface insecticides designed to control chinch bugs, mites, and sod webworms should be on the leaf surface or in the top layers of thatch. Therefore, applications of insecticides or miticides made to control these pests should *not* be watered in.

Most soil insecticides for control of white grubs or billbugs need to get as far into the thatch layer as possible. Therefore, after application of insecticides for these pests, water will be applied until the top one inch of soil under the thatch layer has been wetted.

Granular formulations are common in turf management and these must be rained on or irrigated before the pesticide becomes active. Granular formulations are often preferred where irrigation is not possible because the active pesticide will remain longer, or at least until a rain activates the granule.

5.4.4 pH

Several insecticides and miticides are very sensitive to high or low pH levels. Therefore, knowledge of the pH range of the pesticide is essential. Before mixing, the tank water pH should be adjusted.

5.4.5 Timing

As with all pesticide control measures, timing is a critical issue. Most of the modern insecticides and miticides have short residual lives and need to be applied when the pests are in a susceptible stage. For example, the hyperodes or turfgrass weevil has a relatively short window for successful control lasting less than two weeks.

5.4.6 Pest Resistance

Several turfgrass insects have been identified with resistance to insecticides. Fortunately, most of this resistance occurred with the use of the older chlorinated hydrocarbon insecticides such as chlordane and dieldrin. However, some insects have demonstrated some resistance to the organophosphate insecticides. Therefore, the Ferry Point Park Golf Course will use a pesticide only when needed and if possible, not use the same product more than once in a season, or from season to season.

5.5 Anticipated Reduction of Pesticide Use with IPM

It is not unrealistic to assume that IPM will achieve pesticide reduction. Evidence gathered from existing golf courses using IPM shows that successful implementation of IPM programs does significantly reduce reliance on turfgrass pesticides. It is unrealistic, however, to assume that IPM, even with improvements over time and customization to meet the specific needs at Ferry Point Park Golf Course, will ever fully eliminate the need for pesticides.

Table 29 illustrates the decreased level of pesticide use anticipated on the golf course once the IGCMP has had an opportunity to succeed. A comparison with Table 28 "Projected Maximum Pesticide Usage for Ferry Point Park Golf Course shows large reductions in potential pesticides used during the first five years of operation. Reductions in anticipated usage of pesticides arise from reduced frequency of application, reduced quantities of active ingredients required per acre, and reductions in the management areas and maximum acres treated.

Table 29. Projected Pesticide Use with an Effective IPM Program

I. Herbicides (Tees/Fairways/Roughs)

Common Name	Trade Name	Recommended Rate/App. lb a.i./Ac	Projected No of Apps/Yr (Maximum) lb a.i./Ac	Projected Maxiumum Total a.i./Ac/Yr	Maximum Acres Treated	Areas Treated
Glufosinate-ammonium	Finale®	0.031	2 x's/yr	0.062	10.00	spot treat
Dithiopyr	Dimension®	0.50	1 x's/yr	0.50	50.00	F R
2-4-D	W. A. Cleary's®, ISK Turf Care®	1.00	2 x's/yr	2.00	35.00	F R
	Trimec Classic®	1.23	1 x's/yr	1.23	35.00	T F R
MCPP	Trimec Classic®	0.65	1 x's/yr	0.65	35.00	T F R
	W. A. Cleary's®, ISK Turf Care®	0.48	2 x's/yr	0.96	35.00	T F R
Dicamba	Trimec Classic®	0.12	1 x's/yr	0.12	35.00	T F R
	Banvel®	0.50	1 x's/yr	0.50	11.50	T G

II. Insecticides (Tees/Greens/Fairways/Roughs)

Azadirachtin	Turplex® Scott's (Neem)	0.70	2 x's/yr	1.40	11.50	T G
Bacillus thuringiensis	Bio-bit®	0.25	3 x's/yr	0.75	50.00	F R
Halofenozide [1]	Mach 2®	1.50	2 x's/yr	3.00	35.00	T F G
Parasitic Nematodes [2]	Exhibit®	1B/Ac	2 x's/yr	2B/Ac	5.00	G
Spinosad [3]	Conserve®	0.50	1 x's/yr	0.50	35.00	T F G
Potassium Salts of Fatty Acids	M-Pede®	1.35	2 x's/yr	2.70	48.00	F

III. Fungicides (Tees/Fairways/Roughs)

Azoxystrobin Technical	Heritage® 50 WG	5.00	2 x's/yr	10.00	50.00	T F G R
Chloroneb	Scotts Fungicide IX®, Terraclor 75% WP®	8.15	1 x's/yr	8.15	35.00	T F G
Iprodione	Chipco® 26019 FLO	2.72	4 x's/yr	10.88	50.00	T F G R
Myclobutanil	Eagle®	0.65	2 x's/yr	1.30	35.00	T F G
PCNB	Scotts FFII, Turfcide® 10%	21.34	1 x's/yr	21.34	11.50	T G
Propiconazole	Banner®	1.10	3 x's/yr	3.30	50.00	T F G R
Thiophanate-methyl	Cleary's® 3336 (wsp)	2.72	4 x's/yr	10.88	35.00	T F G
Trichoderma Harzianum	Bio-Trek 22 G®	0.75	3 x's/yr	2.25	48.00	F

IV. Growth Regulators (Fairways, Greens)

Cimectacarb	Primo®	0.25	2 x's/yr	0.25	48.00	F
Fluprimidol	Cutless 50W®	1.00	1 x's/yr	1.00	35.00	T F G

Note: These products have been selected and are projected at rates consistent with our "worst case philosophy." These rates were used to calculate dilution for leaching and runoff. Recommendations on these application rates will be addressed in the Water Quality Risk Assessment. WSP = water soluble packets. WDG = water dispersible granule. The outlined quantities on Table 28 reflect as much as 50% more chemical product than what is actually anticipated during routine maintenance. The turf chemicals listed represent the potential pesticides that will be used over a 5 year period.

[1] Newly approved EPA registration
[2] Applied at 150 gal/ac or 3.4 gal/1,000 ft^2.
[3] Newly approved EPA registration

5.6 Pesticide Use and Storage

The golf course superintendent will be responsible for the administration of the following policies:

- The pest will be properly identified through use, as appropriate, of disease, insect and weed identification guides and diagnostic kits;
- The SUNY Extension Service will be consulted for additional BMPs and/or acceptable and approved IPM approaches;
- The golf course superintendent will identify and document occasions when the agreed upon threshold limit of pest activity has been exceeded;
- Environmental conditions will be reviewed and altered as a preferred option, when available, to reduce pest impact (i.e. reduce shade);
- Cultural controls appropriate to the turf related problem will be used to reduce impact (i.e. fertilizers, leaching of salts, removal of mycelium, etc.);
- Mechanical practices (aerifying, spiking, verticutting, etc.) will be considered to help reduce and improve turf under stress;
- A pesticide application will only be made when there is no alternative measure for control;
- The application of a pesticide will be made under the direction of a certified, licensed applicator;
- The golf course superintendent will be licensed in the proper New York State Department of Agriculture Pesticide Control categories;
- All pesticide applications will be made in accordance with label specifications;
- Material safety data sheets (MSDSs) on all products will be readily available for all personnel and a Hazard Communication Program will be prepared for employees at Ferry Point Park Golf Course;
- Applications will not be made in winds in excess of 10 mph;
- The applicator will adhere to all label specifications for loading, mixing and applying the compound. Protective clothing as specified by the label will be worn by the applicator;
- Liquid application of a pesticide will be made using a low pressure boom type sprayer with a boom height adjusted to minimize drift; and
- Notification of the application of a golf course pesticide will be made in accordance with New York State posting and notification procedures.

5.6.1 Spray Equipment

When practical, an ultra low-volume backpack sprayer will be used for spot applications. Low volume application of mist sized spray particles reduces the amount of water and pesticide required, reducing both drying and re-entry times. Ultra low-volume sprayers work well for many broadleaf herbicides that are applied at low dosage and mix easily in water. Pesticides applied as a wetable powder and/or at high applications may not work well in this type of sprayer. Pests that are slightly above threshold levels, but not excessive in population, will be treated with a proportioned droplet or a "wick type" spot applicator. A push-type grounds sprayer called Wheelie, Model #WS-480, with a 6 gallon tank designed for spot treatment applications or in areas less than 6,500 square feet may also be effective at the Ferry Point Park Golf Course.

For larger applications, a dedicated spray system will be used. The system will include a state-of-the-art flow meter with clogged-nozzle indicators and individual electric shut off capability. Enclosed cabs with electric isolation switches will allow instant on/off controls to target precise areas for spraying. The use of a "Windfoil" applicator with spray drift shields will substantially reduce aerosol drift.

Many nozzle sizes are available to control droplet size. These nozzles are generally 200 microns in diameter and must be matched to the gallons-per-minute and pressure rating of the pump control system. Nozzle calibration kits are available for these state-of-the-art sprayers.

To reduce the potential for drift, nozzle screens (50-100 mesh) should be installed to filter foreign material. Nozzles spaced 18" apart should be adjusted to apply material evenly. They should be of sufficient angle so as not to allow the spray material to drift from its target. Four nozzles generally offer the best drift control: extended-range flat spray tip, wide-angle full-cone spray tip, wide-angle flat-spray tip, and a wide-angle hollow-cone spray tip. Electrically controlled droplet applicator nozzles are also available.

State-of-the-art technology should never take the place of simple performance check calibration. The golf course superintendent should calibrate each nozzle size available for use and record the total number of gallons applied. The daily use reports on file in the superintendent's office should include verification that the appropriate amount of active ingredient was applied. These rates must comply with state regulatory procedures and be applied according to label restrictions.

5.6.2 Pesticide Containment and Handling

A pesticide containment pad will be constructed to control possible spills and pollution. The containment pad will be designed to meet the Department of Agriculture's provisions for Bulk Storage of Toxic or Hazardous Materials, or other applicable standards. The containment pad will be sufficient to intercept leaks and spills of pesticides that may occur in the dispensing area. The pad will comply with all City and New York State Department of Environmental Conservation codes.

Applicators will receive the appropriate training and will be knowledgeable in the compliance levels set forth within the Golf Course Management Plan. The following standards will be used as procedure for all pesticide applications:

1) The spray equipment will be filled with water from a back siphon-protected hose outlet. The spray tank should initially be filled to within 75% of its holding capacity. The compound chosen for use is then added to the water in the spray tank. Following mixing as specified on the label, the spray apparatus may be topped-off to achieve the proper ratio of diluted material.

2) All packaging materials will be triple-rinsed, with the rinse water poured into the spray tank to reduce the hazardous material entering the waste stream with the empty packaging. Water soluble and water-carried granule products allowing this type of rinsing are designated in Tables 28 and 29 by the term WSP (water soluble packets). All empty packaging will be stored either inside or adjacent to the pesticide containment building in its original shipping cartons until disposal.

3) Upon completion of the spray application, the equipment will be returned to the pesticide containment area and filled with water to within 25-50% of the tank holding capacity. The diluted rinsate is then applied in the areas designated as primary rough. Rinsate may be sprayed immediately adjacent to each hole where an application of a pesticide was applied. The rinsate will be applied with the same ground speed as the actual application. No rinsate will be applied in any areas deemed environmentally sensitive or having potential for surface runoff to such areas. Secondary rinsate or spillage will be collected in the above ground storage tanks for later spray application into the safe rough areas. All rinsate material should be applied to the target site on the same day as the initial application to avoid phytotoxicity.

The area fire station will be provided with a current copy of all chemicals and pesticides stored in the pesticide storage area. The Material Safety Data Sheets (MSDS) will be provided for each compound in the storage area. In the case of minimal discharge, employees will have the necessary protective equipment and clothing readily available and comply with the Pesticide Spill and Response Plan.

All hazardous materials will be disposed of through a licensed hazardous waste disposal firm. Discharge from dry bulk materials stored within the pesticide storage facility will be recovered by the use of a broom and dust pan used solely for the purpose of recovery of these materials. Any material that is not contaminated and suitable for use will be repackaged with an original label affixed to the new packaging. It will be used when the appropriate need arises and for its intended purpose and will not be disposed of unless contaminated.

Employees who apply pesticides at Ferry Point Park Golf Course will be state certified under the pesticide applicator program. Annual usage forms will be submitted to the Department as required and a record of pesticide usage will be kept for at least seven years. Newly proposed federal programs regarding labels, worker protection standards and reentry measures will be implemented when they are adopted by the New York State Department of Agriculture.

5.7 Pesticide Spill and Response Plan

A spill response plan will be activated for spills or leaks of management chemicals used on the golf course. This plan will comply with applicable federal, state and city laws. Major provisions of the proposed accidental spill response plan are the following:

Accidental Spill Response Procedure

The following information and materials must be in place and an inventory of these items posted in the chemical storage area:

1 Telephone numbers for emergency assistance, including local law enforcement and fire departments;

2 Sturdy gloves, footwear and aprons that are chemical-resistant to most pesticides (such as foil-laminate gear), and protective eye wear;

3 An appropriate respirator, if any of the spill materials require such during handling activities or for spill cleanup (reference Material Safety Data Sheets on file for each product used);

4 Containment "snakes" or booms to confine the leak or spill to a small area;

5 Absorbent materials, such as spill pillows, absorbent clay, dry peat moss or sawdust to soak up liquid spills;

6 Seeping compound to keep dry spills from drifting or wafting during clean up;

7 A shovel, broom and dustpan made from non-sparking and non-reactive materials;

8 Heavy duty detergent;

9 A fire extinguisher rated for all types of fires;

10 Any other spill clean-up items specified on the labels of any products used; and

11 A sturdy plastic container with tightly closing lid that will hold the volume of material from the largest pesticide container being handled.

Spill Response

1 **Reporting the Spill:** As soon as possible after a spill has been identified, the golf course superintendent will be notified and have responsibility for reporting all spills to the list of responsible parties, the City Emergency Agency responsible for rapid response, and the City's Hazardous Substance Information Office. The following will be reported:

Name and phone number of reporting party
Time and location of spill
Identity and quantity of material released
Status of clean-up and containment

2 **Controlling the Spill:** On-site responders will (a) protect themselves with appropriate protective closing and eye-wear; (b) stop the source of the spill; (c) protect others by warning them of the spill; and (d) stay at the site until the spill is cleaned up.

3 **Containing the Spill:** On-site responders shall (a) confine the spill as quickly as possible; (b) protect water sources and water resources; (c) absorb liquids with absorbent material; and (d) cover dry materials to prevent them from becoming airborne or solubilized.

4 **Cleaning Up the Spill:** On-site responders shall (a) clean up the spill; (b) decontaminate the spill site; (c) neutralize the spill site; (d) decontaminate equipment; and (e) decontaminate themselves.

5.8 Proposed Clubhouse and Maintenance Facility

The facility will contain an office, shop building, equipment storage facility, soil and trash bins, equipment wash bays, and above ground fuel storage. The maintenance building will be used for golf course equipment storage and other maintenance operations as well as the safe storage and clean-up of fertilizers, pesticides and other materials, subject to the conditions described in the next section. Sufficient parking will be available for the golf course maintenance employees.

The proposed clubhouse, maintenance and storage facility will conform to the appropriate City building codes for bulk storage of hazardous waste. The local fire station will be supplied a copy of the floorplan and will be provided a copy of the access security code. The facility will be landscaped and designed to blend with the rest of the project. An all-weather access road shall serve the maintenance building and provide emergency and service vehicle access.

Modern golf course facilities prove themselves in several ways, including increased employee safety; reduced insurance rate growth; eliminated or significantly reduced costs and liability of both storage and disposal of waste residue; and ease and affordability of maintenance (Haskett, 1995). The facility's design will have a significant impact on efficiency, annual maintenance spending and, ultimately, the quality of the golf course.

To ensure that operational efficiency and regulatory compliance are achieved, course designers, structural architects and the owners should make an effort to bring the golf course superintendent into the facility design process at its earliest stages. The superintendent is uniquely qualified to lead the team that designs the facility. By tapping the superintendent's expertise in the early stages, the ownership can obtain a more realistic understanding of the functions of a modern maintenance facility--and thereby avoid many of the oversights that often lead to inefficient operations or expensive remodeling.

A more detailed breakdown of proposed square footage requirements is presented in Table 30.

Modern 18-hole golf course maintenance facilities average 4,000-6,500 square feet and require approximately 1.5 acres for circulation. This golf course will install an Enviro-Drain® or equivalent system in the maintenance facility. The fuel island and wash apron will be designed with independent containment filters for fueling equipment and washing turfgrass equipment. A carport roof or canopy will be attached to the station to protect the system from rainfall and/or snow melt. The filter system dislodges phytotoxic contaminants such as grass clippings, oil, grease, and chemicals from the wash water system and provides a secondary back-up that guards against accidental spills. The system also filters residual concentrations of turfgrass chemicals and non-phytotoxic materials such as fertilizers. A back-up overflow system is normally installed to collect potential spills and divert the rinsate onto the wash pad apron and/or collection system. This will reduce the potential for inadvertent pesticide exposure and drift.

Ferry Point Park will install a recycle washwater system for the turfgrass equipment washpad area where the potential concentration of hazardous waste on a daily basis is highest. The recycling wash water system will be capable of capturing grass clippings, oil and grease, and trace organics.

Table 30. Ferry Point Park Proposed Maintenance Facility Program

1. Office & Conference Area	**Square Feet**	**Square Meters**	**Comments**
Secretary/Reception	200	18.58	
General Office	170	15.79	
Superintendent Office	325	30.20	
Computer Room	170	15.79	
Men's Restroom w/ shower	145	13.47	
Women's Restroom w/ shower	145	13.47	
Lockers	150	13.94	
Break Room	360	33.46	
Conference Room	150	13.94	Includes part storage
Assistant Superintendent's Office	156	14.50	
Subtotal	**1,971**	**183.14**	
2. Shop/Equipment Storage Area	**Square Feet**	**Square Meters**	**Comments**
Equipment Storage	4,800	446.10	Large, small equipment Fertilizer & Seed Storage
Grinding, Equipment Tech	300	27.88	
Parts	156	14.50	
Repair Shop/Lift Area	1,080	100.37	
Oil Storage	100	9.29	
Chemical Storage	100	9.29	Located in self-contained structure outside
Subtotal	**6,536**	**607.43**	
Total of Subtotals	**8,507**	**790.57**	
10% Circulation, Electrical, Mechanical Walls	850.7	79.06	
TOTAL	**9,357.7**	**869.63**	
3. Nursery/Storage/Wash Area (Exterior)	**Square Feet**	**Square Meters**	**Comments**
Turfgrass Nursery	6,000	557.62	
Soil Bins	1,024	95.17	4@ 16 x 16
Equipment Washing	200	18.58	
Unloading Dock	800	74.35	
Trash Enclosure	400	37.17	
Subtotal	**8,424**	**782.89**	

Note: This table may be revised according to the final Golden Bear specifications for golf course maintenance facilities.

5.9 Pesticide Storage Facility

A separate, stand-alone pesticide storage structure of adequate size will be installed at the end furthermost from offices, break room, mechanic area, and employee eating areas. The structure will be placed in the equipment parking and storage area and will be located next to the fuel island and wash pad apron. A back-up overflow system will be installed to collect potential spills and divert the rinsate onto the wash pad apron and collection system. This will reduce the potential for inadvertent pesticide exposure. The structure will meet and/or exceed the State of New York's requirements for pesticide storage and will easily integrate into the golf course maintenance floorplan.

Four companies specialize in golf course prefabricated pesticide storage units.

Perma Lock Inc.
P.O. Box 770357
Houston, TX 77215-0357
800-288-8873

RGF Environmental Systems, Inc.
3875 Fiscal Court
West Palm Beach, FL 33404
407-848-1826

Safety Storage, Inc.
2301 Bert Drive
Hollister, CA 95023
617-598-8906

Safety Strategy, Inc.
P.O. Box 1579
Manchester, MA 01944
203-651-7522

The pesticide storage building should provide adequate ventilation actuated by an external, explosion-proof light/fan switch. The switch should be protected from vandalism and covered for security. An instruction placard indicating proper entrance and lock-out procedures should be placed in the doorway entrance. The locality of the exhaust fan must be positioned so that vapors will be released to the outside of the building.

The facility will be designated and posted as a pesticide storage area (as required by law), with a list of all chemicals contained in storage on file in the superintendent's office. One copy of this list should be provided to the Fire Station. Additional copies should be located in the clubhouse or in an appropriate file located away from the pesticide storage structure.

Strict discharge limits have been set by EPA for oil, greases, solvents, fuels, grinding compounds, heavy metals, detergents, insecticides, fungicides, herbicides, and nitrates. Simply washing these materials down the drain, into the ground or into a waterway is neither legal nor environmentally responsible. Recycling systems for wash water are designed as closed looped systems and address direct discharge into a sewer or water quality basin. The wash water system functions by utilizing a three-step process:

- Grass clippings are removed from the washwater to minimize the release of hydrocarbons, including potential fertilizer and pesticide residues.
- The washwater is recycled continuously while physically removing oil and solid particles. This process prepares the water for filtration.
- The washwater is filtered with carbon packs prior to discharge into the waste stream.

5.10 Storage Facility Check List

The following operating procedures are recommended for the pesticide storage facility:

- The building will be secured and locked at all times;
- An additional key will be placed in the administrative office and in the office of the golf course superintendent in case of emergency;
- Materials will be stored on shelves located high enough to permit cleaning of the floor. No material should be stored above 6 ft from the ground;
- All materials will have legible labels attached. Materials whose packaging has been damaged must be in containers clearly marked and labeled;
- Plastic secondary containers are used to store liquids shipped in quantities of 1 gallon or more for protection against spillage;
- A plastic trash barrel with lid will be located inside the storage facility for cleanup;
- The golf course maintenance department will be trained in the operating procedures regarding this building;
- Appropriate protective clothing and equipment will be provided for use by those who handle pesticides;
- Absorbent materials designed to contain accidental spills will be available within the pesticide storage facility;
- Disposal of pesticide containers shall comply with the instructions on the labeling and other state and federal regulations. Empty containers will not be allowed to accumulate or be stored within this building;
- The building will be inspected at least monthly by the golf course superintendent and a record of each inspection recorded in the records for pesticide use; and
- Obsolete, excess, and mixtures of pesticides shall be disposed of by a licensed hazardous waste firm or according to the statutes and regulations established by New York state law.

5.11 Fuel Storage and Waste Oil Dispensing

The maintenance facility will contain a 500 gallon storage tank for gasoline and a 500 gallon storage tank for diesel fuel. Both tanks will be dual walled above ground tanks with monitoring leak detection systems and vehicle barriers for accident prevention. The sump and concrete pad will be designed with a carport roof to protect the tanks from rainfall and snowmelt. The tanks shall consist of a UL listed primary tank, a high density polyethylene secondary compartment, and a six inch reinforced concrete encasement. The concrete vault which provides thermal and corrosion protection can be poured on location or shipped precast. The tanks installed will conform to the Uniform Fire Code and NFPA.30 regulations for above ground tanks. The tanks will be designed to meet or exceed the above ground regulatory storage requirements in the state of New York.

The appropriate signs indicating No Smoking with Fuel Safety Warnings will also be installed. A 250 gallon waste oil and solvent storage tank will be installed at the golf course maintenance facility.

Chapter VI

Water Demand and Analysis

6.1 Water Replacement Strategy

Irrigation water will be applied to the tees, greens, fairways, and primary and secondary roughs. The project is committed to conserving water and using water resources in an efficient and effective manner. Supplemental irrigation will be necessary during the grow-in period of the golf course and to assist with the restoration of the disturbed areas, including tree and shrub planting projects.

Increased irrigation will be necessary during the germination period to successfully assist with quality control of the naturalized restoration plan. After the establishment period, the proposed grassing plan will allow for a reasonable reduction in supplemental irrigation and provide excellent playing surfaces, even in areas grown under droughty conditions. The maximum usage or peak water demand during the first year of grow-in is estimated at 476,119 - 612,400 gallons/day (gpd).

6.2 Water Demand, Supply and Storage Analysis

The replenishment of soil moisture as it is extracted and the leaching of salts that accumulate are vital to the creation of a sound root environment. The amount of water required for leaching is directly proportional to evapotranspiration and the potential concentration of salts in the irrigation water. This is inversely proportional to the salinity tolerance of the turf and explains why evapotranspiration should always be used as the main factor when determining total irrigation water requirements.

The water supply for the golf course will be New York City municipal water, as is the case with other New York City Parks Department facilities.

Table 31 characterizes the average daily water demand, supply and storage analysis for Ferry Point Park Golf Course. For maximum efficiency, irrigation of the turfgrass is proposed during the months of March through November. An analysis of natural rainfall and evapotranspiration has been performed and an estimate of daily and yearly usage has been completed. The figures represent the total water needs for turfgrass in this climate, on average, including rainfall and irrigation sources. The demand averages reflect the projected average daily usage of irrigation water for the golf course during and after the grow-in period. However, both the initial request for peak water demand and the average water demand analysis presented reflect accurate golf course irrigation and water needs. This table represents less than or equal to 140 acres of established turfgrass grown under normal growing conditions using 408,267 gpd with a peak average daily demand of 612,400 gpd during grow-in.

6.3 Irrigation Water Quality

An irrigation suitability and water quality analysis will be performed to determine water quality pH, total dissolvable solids, chlorides, bicarbonates, electrical conductivity (ECw) and the sodium adsorption ratio (SAR). During the first year of operation, quarterly testing of the soils prior to preplant and after the grow-in period should be conducted to maintain adequate levels of soil calcium, magnesium and potassium. Modification of the soil pH will be directly proportional to the levels of calcium in soil and the amount of applied irrigation water.

6.4 Water System Specification and Capabilities

The golf course will install an automatic irrigation system designed to achieve maximum distribution and uniformity of coverage. The system will be engineered to water the entire golf course each night and apply a minimum of 1" of water per week without over watering. The spacing of sprinklers will be designed to minimize surface runoff and avoid inadvertent drift. Field controls will be placed for maximum visibility. Valve-in-head sprinklers will be used with individual control wires installed for each of the irrigation heads back to the field controllers. Heads on fairways and roughs can be paired at the controller on an average of two heads per station. Green and tee sprinkler heads will be operated individually. Greens will be irrigated with full and/or part-circle sprinkler heads to allow the superintendent to irrigate in a more efficient manner. This reduces disease potential and results in lower usage of pesticides. Quick coupler snap valves will be necessary near the naturalized plant restoration areas in order to provide supplemental water for grow-in purposes.

ETS also recommends the installation of an irrigation water injection system to assist with applying gypsum or acidifying materials designed to manage the level of sodium in soils. The Bioject® and/or EcoSoils Solution System® are easily adapted to the irrigation system and allow for maximum distribution of sodium leaching materials in the least amount of time. The injection system should be included as an optional add-on in the irrigation design bid package.

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Glossarv of Terms

abiotic – Non-living substance, at one time may have been living.

aerification -- A mechanical process used to facilitate soil air/water relationships of the turf without destroying the integrity of the sod.

a.i.-- Active ingredient. Chemical agent in the product primarily responsible Ibr the pesticidal effects. Percentage of a. i. is shown on the pesticide label.

annual -- Plant that completes its life cycle from seed in one year or season.

annual bluegrass segregation -- The introduction of annual bluegrass *(Poa annua)* that has invaded and persistently remains a major component of irrigated turf. Annual bluegrass becomes the dominant species under these conditions and the IPM program is altered to meet the requirements of this species.

apron -- Fairway area immediately surrounding the collar of the green. Second cut. (see collar).

acervuli -- Plural of acervulus, a microscopic, black structure, embedded in plant tissue, on which fungal spores are produced.

bacteria -- Microscopic, single celled organisms having a cell wall but lacking an organized nucleus and incapable of making their own food. All plant pathogenic bacteria can live saprophytically.

biennial -- Plant that completes its life cycle from seed in two years or seasons. First year it produces a vegetative plant and stores food; the second year or season it produces flowers and seed.

biocoenosis – A community of animal and plant life.

biotic -- Living substances.

blight - Affecting a large portion of the leaves or the whole plant.

broadcast application -- Application over the whole area.

broadleaf weed -- Common term for plants in the dicotyledon group (dandelion, plantain, spurge, etc.).

broad spectrum pesticide -- Pesticide which is effective against several pests (in contrast with a specific pesticide which controls primarily one pest).

brushing -- A mechanical process to aid in grain control whereby horizontal stems are lifted so that they may be cut by the mower.

causal agent -- An infectious (viruses, mycoplasmas, bacteria, fungi, and nematodes) or noninfectious (mechanical, temperature, water, gases, pollutants, light) biotic substance which is involved in causing plant damage.

chlorophyll -- Green pigment found in structures called chloroplast in plant leaves. Chlorophyll is the material which enables plants to carry out photosynthesis. chlorosis –A process by which plant tissue loses its normal green color and gradually becomes yellowed.

clippings -- Leaves, stems and stolons cut off by mowing.]

collar -- Area between the putting area and the apron.

curative pesticide -- A pesticide that can inhibit or eradicate a disease-causing organism after it has become established in the plant or animal.

fixation -- state of being fixed.

innoxious -- harmless.

insolubility -- incapable of being dissolved.

insecticide -- Any chemical used to manage (control) insects.

internode -- Part of a stem which lies between two successive nodes.

irrigation -- Applying water to turf.

landing area -- Part of the fairway where tee shots usually land.

lapping, mower -- Part of the process of sharpening a reel mower.

layering, soil -- Undesirable stratification of different textured material in the soil.

localized dry spot -- Area of the soil which resists wetting,.

mat -- See thatch.

microflora -- Plants invisible to the naked eye, such as diatoms and algae.

monocotyledon -- Botanical group in which monocotyledon (one cotyledon or seed leaf) plants are placed. Leaves are usually longer than broad. Leaf veins are parallel.

mycelium (a) --Thread-like body of the fungus generally invisible except during periods of luxuriant growth.

narrow leaf-- Common term for plants in the monocot group (all grasses, sedges, etc.)

necrosis -- Irreversible decline, death of the tissue. Usually yellow to tan or gray, then brown or black.

nematode -- Microscopic round worm which mainly infects the roots of plants. Most plant parasitic nematodes need to feed on a plant in order to get food required for reproduction.
node --A stem joint capable of producing buds, leaves and/or roots.

noninfectious --Incapable of entering a living plant and causing disease.

nonselective – Herbicide which kills plants irrespective of species. Not selective for controlling weeds without injury to turf

nursery, turf-- Place where replacement sod or vegetative planting material is grown for Planting elsewhere.

obligate parasite -- An organism incapable of completing its life cycle outside a specific host plant.

osmosis - The process by which Liquid passes through a semipermeable membrane from a lower concentration to a higher concentration.

overseedi
in the wintertime.

pallete --A composite grouping or collection of plants that are typically planted to emulate native plant life or habitat.

panicle -- Many branched flower head with flowers at the end of each branch. Common in grasses such as annual bluegrass.

parasite --Any living organism which is capable of deriving its nutrition from another living organism but may not necessarily cause disease in the host organism. pathogen --Any parasite capable of causing a disease.

pesticide --A generic name given to a chemical capable of controlling insects, pathogens and/or weeds.

perched wa
textured soil and an underlying coarse texture. The
continuity of water films is disrupted, slowed, or stopped altogether.

pheromones - Chemicals produced by insects and other animals to communicate with and influence the behavior of other animals of the same species. (note: Most pheromones used today in pest management are synthetic and are used to monitor insect populations.)

phenology -- The scientific study of the changes in biological organisms that
coincide with the yearly seasons, such as the timing of plant emergence and the progression of the fall tree colors from north to south.

photosynthesis -- Process by which plants containing chlorophyll are capable of Producing their own Ibod (carbohydrates) from carbon dioxide and water in the

physiological - The functioning of plant processes dependent on biochemical actions.

poling - Using a limber pole to remove the dew from leaves of grass.

postemergence – After germination and emergence from the soil.

prostrate -- Growth habit of tendency to lie flat on the ground.

reel mower -- Mower that cuts turfgrass by means of a series of curved, rotating blades which pull the grass into a stationary bedknife and cut the grass in a manner similar to a scissor.

renovation -- Improving a turf without completely destroying the turf characteristics. May or may not include planting new seed or vegetative material into an existing

residue -- That which remains.

rhizome -- Below ground stem with nodes and internodes capable of producing a new plant at each of the stem nodes.

rosette --A tuft or cluster of closely crowded leaves arising from a very short stem. Caused by the dwarf or compaction of the internodes.

rotary mower -- A mower that cuts the grass by means of a single blade, mounted parallel to the surface of the turf and sharpened on each end. The blade revolves at a high rate of speed in a horizontal plane and cuts the leaves of the grass by impact action.

rough -- Part of the golf course which borders the tee, fairway and greens. Usually mowed at a higher level and maintained less intensively than other parts of the golf course. Does not usually come into play.

scald-- Injury to turf caused by standing water.

scalping -- Excessive removal of the green portion of the turf plant, leaving brown stubble exposed.

sclerotia - Propagules composed of hardened masses of mycelium which aid the fungus in surviving periods of adversity. Golden brown to black in color and spherical to irregular in shape. Can be the size of a cabbage seed to microscopic.

selective -- Type of herbicide which will control one plant species without injury to another. Usually indicates that herbicide will kill weeds without injuring certain species of turfgrasses. Excessive rates of application may reduce or eliminate the selectivity.

semidormant -- Turf which is in a quiescent stage because temperatures are below the optimum for normal growth.

senescent -- Plant tissue declining after reaching maturity. Old age.

sheepfooting -- A method of compacting soil in putting green construction. This may be performed by the use of human feet or mechanically by a soil compactor.

slicing -- Method of cultivation or aerification in which a blade cuts through the turf intermittently, perpendicular to the surface.

sod --Plug, squares or strips of turf which has some adhering soil. Usually produced in a large controlled area.

sodic soils -- May develop as a result of irrigation. The soil solution contains ouly small amounts of calcium and magnesium, but larger quantities of sodium. In some cases potassium salts may also be present.

soil applied pesticide -- Pesticide which is applied to the soil where it has its activity. Some may be taken up by root and translocated to other parts of the plants.

spiking-- Method of cultivation in which a solid tine or pointed blade penetrates the turf and soil.

sporulate -- Process by which a fungus produces spores.

spot spraying -- Application of a pesticide to small areas. Contrasted to broadcast application.

sprig -- a generic term Ibr a vegetative planting material. May include stems, leaves, roots, stolons, rhizomes, etc.

sprigging-- Establishing turf by means of planting sprigs or stolons

stimpmeter -- A device to measure the speed of putting greens.

stringlining -- The art leveling a soil surface with a marked line using a line with string or the use of a piece of square lumber shuffled across the surface.

stolon -- Above ground stem which spreads laterally at the soil surface producing new plants at the nodes.

suboxidation -- A condition in which soil oxygen is severely limited. surfactant --Material which reduces the surface tension of a liquid (such as water) and improves the spreading of the liquid on a surface. Usually used with pesticides applied to the foliage to improve coverage.

syringing -- Applying a small amount of water, usually in the Ibrm of fine droplets, to cool the plant, prevent wilt, or remove dew.

systemic -- Pesticide which is absorbed into a plant through the leaves andlor roots and translocated throughout the plant.

thatch --A layer consisting partially of undecomposed organic matter, between the crown of the plant and the soil surface andlor below the soil surface.

transition zone -- An irregular east-west zone consistent with isothermal lines between warm season grasses are well adapted. Both may be grown in this zone.

translocation -- Movement of materials within the plant from point of entry to other areas, such as leaves to roots or roots to leaves.

vascular system -- Conducting or transport avenues in plant tissue, such as veins in leaves.

vertical mowing -- Use of a mechanical device with vertical cutting blades to manage grain and thatch.

verticutting -- Using a vertical mower.

viruses -- Submicroscopic entities consisting of a nucleic acid and a protein sheath. All viruses are obligate parasites as they can only multiply in living plant cells.

warm season turfgrasses -- Species of turfgrass which are adapted to the warmer subtropical and tropical regions of the world. Members of the subfamilies Panicoideae and Eragrostideae. On golf courses in warm regions of the world, primarily bentgrasses (Cynodon spp.).

weak pathogen -- Organism not capable of infecting vigorously growing tissue. It generally attacks tissue under a biological stress from abiotic or biotic causes. Often referred to as a "secondary pathogen", as it usually attacks tissue previously infected by a primary pathogen.

wetting agent -- See surfactant.

wilt -- Drooping of turfgrass leaves due to loss of turgor under moisture stress. Wilt may be due to acute and/or chronic lack of soil moisture, a dysfunction of the root system such as from a root rot, excessive salts in the soil water, or from suboxidation which limits the uptake of water as oxygen is essential for the process of water uptake.

Attachment G: Hazardous Materials

REPORT

ENVIRONMENTAL ASSESSMENT STATEMENT ATTACHMENT G HAZARDOUS MATERIALS

FERRY POINT PARK
BRONX, NEW YORK

Prepared by

TRC Environmental Corporation
Windsor, Connecticut

September 30,1999

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1.0 INTRODUCTION

TRC Environmental Corporation (TRC) conducted a series of field investigations to assess environmental conditions at the eastern portion of the New York City Department of Parks and Recreation (DPR) Ferry Point Park. Because of the site history of use as a municipal solid waste landfill in the 1950's and 1960's environmental conditions were evaluated to assess current conditions and the potential for significant adverse health impacts under current plans for development of the site as a public recreational facility. In general, the environmental evaluation was conducted in accordance with guidance provided by the City Environmental Quality Review (CEQR) Technical Manual. Specifically, TRC evaluated conditions relative to Chapter 3, Section J: Hazardous Materials.

Three phases of field investigations were conducted, as outlined below:

- A test pit investigation was conducted to determine the thickness of existing soil cover materials and to generally characterize the types of solid waste present in the subsurface;
- A landfill gas investigation was conducted to assess the nature and extent of landfill gas occurrence, including the presence and/or distribution of landfill gas at the surface and in the subsurface of the landfill; and
- A subsurface drilling investigation was conducted to assess the physical and chemical characteristics of subsurface materials, especially in areas of proposed excavation and/or development.

1.1 Project Objectives

The objective of the field exploration programs was to provide sufficient data to assess the presence of and potential impacts from hazardous or contaminated materials associated with past landfilling activities on the site on the proposed development of the site.

1.2 Report Organization

Section 1.0 provides an introduction to the project and defines project objectives. Section 2.0 provides detailed background information on the environmental setting and conditions at the site, including existing conditions, site history, and surrounding land use. Section 3.0 describes the nature and findings of the environmental investigations conducted

at the site, including the test pits, landfill gas and subsurface investigations. Lastly, Section 4.0 provides information on the potential human health and environmental impacts for both the construction and operational phases of the proposed project, based on the information provided by the site explorations.

2.0 BACKGROUND INFORMATION

2.1 Study Area Existing Conditions

The study area consists of a portion of Ferry Point Park located under and immediately east of the Whitestone Bridge and the Hutchinson River Parkway (U.S. Interstate Route 678) as indicated on Figure 1. The Ferry Point Park site is a former landfill owned by the City of New York and currently administered by DPR. The site is bounded by Schley Avenue and St. Raymond's Cemetery to the north; Balcom, Miles, and Emerson Avenues to the east; the East River to the south, and the I-678 northbound and southbound service roads and the western portion of Ferry Point Park to the west. Available topography for the site shows that its current elevations vary from about 10 to 40 feet above mean sea level, with gentle slopes.

The landfill parcel may be described as consisting of two sections, which can be differentiated in part by topography/landform, and by vegetation. The eastern section is approximately 70 acres in size, has a covering of low grasses and a few small trees (estimated to be 5 to 10 years old), and varies in elevation from approximately 3 to slightly over 40 feet above the National Geodetic Vertical Datum of 1929 (NGVD) (based on the United States Geological Survey (USGS) 7.5 Minute Flushing Quadrangle, photorevised 1979). The western portion of the landfill, which slopes down to the East River waterfront, is approximately 140 acres in size and covered with tall (6-foot) heavy grasses and vegetation with a few trees (larger than those observed on the eastern section). The western portion of the landfill varies in elevation from sea level to slightly over 40 feet NGVD. Both sections of the landfill are criss-crossed by informal unpaved dirt-bike trails.

In general, the majority of the site is currently inactive. However, DPR operates an organic recycling facility in a fenced-in area along the western side of the landfill, and a composting operation which is located along the access road on the west side of the landfill. An informal model airplane runway and sitting area is located east of the DPR operation. Other existing land uses for the site appear to consist of the use of dirt bikes and four-wheel-drive vehicles on informally developed trails that criss-cross the site. Other than these areas of current activity, the remainder of the site is covered with vegetation that was either planted

or has developed naturally over the past 15 to 20 years. During the course of the field activities, light use of the site for walking and motorbiking was also observed. Existing site conditions are illustrated on a 1991 aerial photograph provided as Figure 2.

Proposed golf course facilities, including a waterfront park, clubhouse, restaurant and catering facilities, associated maintenance facilities, and community park, are schematically depicted on a 1991 aerial photograph of the property as illustrated on Figure 3.

The southern portion of the landfill abuts the East River along a rip-rap-covered shoreline and a cemetery is located to the north of the western portion of the landfill. Land use to the north, east, and south of the eastern portion of the landfill is residential. A small playground abuts a portion of the northeastern-most corner of the landfill.

2.2 Site History

The site was in operation as a landfill from before 1951 to the 1960's. The landfill reportedly accepted municipal solid waste during its operating period (telephone conversation with Mr. P. Gleason of the New York City Department of Sanitation on July 30, 1998), and was closed and covered in the mid-1960's, with additional closure operations conducted more recently (1980's).

Site use is depicted in historic aerial photographs from the years 1951, 1954, 1959, 1962, 1982, and 1991. This series of aerial photographs spans practically the entire operational period of the landfill, from its initial operations to the present, and provides substantial information about the site's development. Annotated aerial photographs from each of the above referenced years are provided as Figures 4 through 9. The following observations are made:

- The 1951 aerial photograph, provided as Figure 4, depicts a relatively small area of municipal landfill in the northwestern portion of the project site. Elements observed on the photograph include an area of municipal waste disposal, active landfill face, dark colored areas indicative of wet areas, and mounded construction debris. The most evident feature on the 1951 aerial photograph is the reduced size of the active landfill area compared to the future landfill boundary.

- The 1954 aerial photograph, provided as Figure 5, shows the landfill in a transition state. The limits of the 1951 landfill are still evident, but several earthen berms are present within the water to the south and east. These berms define limits of future landfilling. In particular, an apparent dewatering barrier is visible in the central portion of the site with active landfilling occurring to the east. Additional features evident include areas of mounded construction debris, mounds of waste material, and several areas that may represent stockpiles of cover soil.

- The 1959 aerial photograph, provided as Figure 6, shows the landfill boundary to the south approximating the final extent of filling. The areas outlined by berms in the 1954 aerial photograph are now filled in and a vehicle and equipment storage area is visible along the southeastern portion of the site. Numerous sanitation trucks are visible hauling refuse to the active working face of the landfill, and dark areas, indicative of wet low-lying zones are present in the southern portion of the site. Piles of waste and/or cover materials are also visible.

- The 1962 aerial photograph, provided as Figure 7, shows the approximate final extent of landfilling at the property. The dark areas to the south are now absent, likely indicating the placement of additional fill to the south since the 1959 aerial photograph. This photograph shows active use of the majority of the easternmost portion of the property, as indicated by several landfill lifts. A baseball field and support area are now present in the far northeastern portion of the property. Mounds of waste material and several areas of soil cover material are also shown.

- The 1982 aerial photograph, provided as Figure 8, shows the site in its approximate current condition. Vegetation has developed over a large part of the property and numerous trails are visible. Several informal dirt bike trails are evident, as is a "T" shaped paved area presently used as a model airplane landing strip. Along the northern portion of the property, mounds of construction debris and a small area of active landfill is visible.

- The 1991 aerial photograph, provided as Figure 9, shows further growth and development of site vegetation. The paved strip area is still visible, as are the construction debris in the northern portion of the site. However, the previous extent of landfill activity in the northern portion of the site is greatly reduced. Several dirt bike tracks, including at least some portions of the dirt bike tracks shown on the 1982 aerial photograph, are visible. The baseball field and support area in the far northeastern portion of the site are no longer present. However, another baseball field and a basketball court are present to the south.

In summary, aerial photographs from 1951, 1954, 1959, 1962, 1982, and 1991 provide a basis for the following general conclusions regarding the nature of historic operations at the site.

- Historical aerial photographs dating back to 1951 indicate that the fill appears to have been placed in upland areas (possibly previously filled areas) and in areas formerly submerged by the East River and associated inlets.

- In general, the landfilling activities appear to have followed a planned sequence with respect to the geometry of the ultimate site boundaries and utilized internal separations as landfilling progressed.

- The majority of landfilling activity occurred in the late 1950's to the early 1960's, thereby indicating the majority of waste materials to be on the order of 40 to 50 years old. Vegetation has been established over for the site for on the order of 15 to 20 years.

2.3 Previous Explorations

Historic information from 10 borings drilled in the vicinity of the DPR organic recycling facility and northwest of the model airplane area in November-December 1990 indicated fill thicknesses of 14 to 23 feet (W. M Walsh Co., Inc., "Boring Location Plan and Logs," dated January 10, 1991, Contract No. C.N.Y.C.-1989). The fill thickness appeared to increase from the borings at the northern edge of the property (14 to 16 feet) to the southwest (22 to 23 feet). The fill was described as 'misc. fill, shot rock'. Underlying the fill at the locations at the northern edge of the property was a layer of gray silt or, depending on location, a ½- to 1-foot layer of meadow mat underlain by gray silt. Each of the borings encountered gray fine to medium sand at a depth of 19 to 23 feet below grade.

3.0 SOILS ASSESSMENT

3.1 Introduction

TRC conducted three separate field investigation programs to:

- assess the general nature and approximate thickness of cover soils;
- assess the nature and extent of landfill gas occurrence; and
- assess the chemical characteristics of materials present within the landfill in areas of proposed excavation and/or development.

TRC conducted soil boring and soil sampling activities in accordance with a project specific quality control plan. This plan was developed to ensure that sampling and analysis activities provided reliable and representative results. The quality assurance/quality control (QA/QC) program addressed the maintenance of sample integrity from sample collection in the field to analysis in the laboratory. Additionally, TRC personnel followed a Health and Safety Plan (HASP) during field explorations at the sites which described the nature of wastes or contamination suspected and present at the site, the site access and work zones, and the initial level of personnel protection and monitoring anticipated during site investigation activities.

3.2 Cover Soil and Preliminary Waste Characterization

TRC completed 38 test pits (TP-01 through TP-38) at various locations across the site between July 21 and 27, 1998 to assess the thickness of landfill cover material and visually characterize the fill/waste materials. The locations of site test pits are shown on Figure 10.

The test pit excavation program was conducted using a track-mounted excavator with an approximate 15-foot reach. The thickness and characteristics of the cover material and fill/waste material, the depth to ground water, and total depth of the excavation were recorded on a test pit log. Test pits were conducted under Permit Number X-12-98NFC issued by DPR. The test pits were located using a Global Positioning System (GPS) receiver. A summary of individual test pit observations is provided as Table 1. The following is a brief summary of findings from the test pit program (TRC, July 1998).

- The excavation program identified municipal wastes at most locations along with varying amounts of wood and metal. The test pit observations indicated that the waste characteristics varied at different locations.

- Depths to ground water varied, based on location, from 3 to over 13 feet below grade.

- The cover material generally consisted of light brown silt and sand with varying minor amounts of brick, rock, metal, and other debris. Inspection of the surface of the landfill indicated the widespread presence of metal, rock, and brick in the cover material and on top of the landfill.

- The thickness of the cover material varied with location across the landfill. The cover material on the western portion of the landfill (test pits TP-1 through TP-14, TP-25, TP-26, TP-28, TP-32, TP-33, TP-37, and TP-38) varied in thickness from non-existent to 6 feet. Of those test pits on the western portion of the landfill, test pits TP-2, TP-37, and TP-38 encountered 5 to 6 feet of cover material. Cover thicknesses in most of the other test pits on the western portion of the landfill averaged approximately 2 feet in thickness. Two test pits along a sloped area approximately located between the western and eastern sections of the landfill (TP-15 and TP-27) encountered 8 and 5 feet of cover material, respectively, above wastes or the water table. Fill was not encountered in test pit TP-27 to the depth excavated (9.5 feet below grade). In general, the wastes observed beneath the western portion of the landfill were dark colored and contained wood, metal, glass, plastic, tires, auto parts, cloth, and other household wastes. A noticeable odor was emitted when the fill was uncovered in many locations. A section of newspaper uncovered in one of the test pits was dated 1959. In some areas, such as test pit TP-26 along the southwestern side of the landfill, construction materials (wood sheets) were identified.

- The cover material on the eastern portion of the landfill (test pits TP-17 through TP-21, TP-23, TP-24, TP-29, TP-30, TP-31, TP-34, and TP-35) varied in thickness from 3 to 7 feet, averaging approximately 4 to 5 feet in thickness. Fill was not encountered in two test pits along the edges of the eastern portion of the landfill (TP-16 and TP-22), where 3 and 11.5 feet, respectively, of relatively waste-free materials were encountered above the water table. The wastes observed beneath the eastern portion of the landfill were similar to those observed in the western portion of the landfill (i.e., containing wood, metal, glass), but in general, contained less household wastes and odors were noticeably less or not apparent. A newspaper uncovered in one of the test pits indicated a date of 1951. These wastes demonstrated comparatively lower odor and generally lesser amounts of

identifiable household wastes as compared to the wastes below the western portion of the landfill, possibly due to age.

Based on the observations made during the test pitting operations, it is estimated that approximately 100,000 cubic yards of excess cover material are present in areas of the site (e.g., areas to be developed as lakes) which would be available for use in contouring the golf course. Any waste materials excavated in the course of construction, such as during the installation of building foundations or utilities, would be disposed of off site in compliance with applicable laws.

3.2 Landfill Gas Evaluation

The two principal gases generated in a landfill are carbon dioxide (CO_2) and methane (CH_4). Carbon dioxide is generated in greater quantities by aerobic decomposition early in the landfill life, while methane production increases due to anaerobic decomposition during the later stages of landfill life. Based on the age of the Ferry Point Park landfill, it is considered to be in the methane generation stage. Additionally, landfill gas generation is strongly correlated with the age of the waste/fill materials, where the gas generation rate drops as the buried waste ages. Due to the fact that the age of the waste materials at the Ferry Point Park site is approaching 30 to 50 years, the landfill gas generation rate is declining.

The greatest concern associated with typical landfill gas is the potential for the methane component to cause flammable or explosive conditions. Methane is lighter than air and will rise until it meets an impermeable barrier. It will then deflect laterally until a vent is found or it will collect in confined spaces. When methane is present at 5 to 15 percent by volume in the air, explosive conditions are possible.

A landfill gas evaluation was conducted to characterize the nature of landfill gas occurrence and to assess the potential for adverse effects of methane gas on the proposed golf course facilities. These objectives were accomplished through the performance of a soil gas survey that included the analysis of landfill gas samples collected at various locations across the site on April 15 and 16, 1999. Monitoring was conducted both at the surface of the landfill (i.e., ambient air monitoring) and in subsurface borings. The locations of soil gas

survey points are shown on Figure 11. The locations of soil gas survey points were located using a Global Positioning System (GPS) receiver.

The soil gas survey was conducted by drilling small-diameter borings at 31 locations (GP-01 through GP-31) on the landfill. Within each borehole, 3/8-inch tubing was placed to a depth of 3 feet. The bottom 1-foot section of the tubing was perforated. The annulus around the tubing was sealed with molding clay. Sampling was conducted directly via the tubing using a Landtec GA-90 Landfill Gas Analyzer (LGA). At each soil gas point, the percentages of methane (CH_4), carbon dioxide (CO_2) and oxygen (O_2) were measured directly by the LGA. Due to variations in the landfill cap thickness, it could not be confirmed that the sample collection depth of 2 to 3 feet totally penetrated the existing cap at each sampling location. Ambient air monitoring in the immediate vicinity of the soil gas survey points was also conducted to determine if landfill gas was detectable at the surface of the landfill.

Methane was not detected in the ambient air during the landfill gas survey, even when measurements were collected at the surface immediately adjacent to the soil gas survey points. These results indicate that the existing cover soils are successful in preventing detectable discharges of landfill gas to the air; therefore, under existing, undisturbed cover conditions, no impacts to the breathing zone are detectable. The development of the site, as discussed in more detail in Section 4.3.1, will result in the presence of an even thicker cover layer over the site, further minimizing the potential for methane to be a problem on the surface of the site.

The results of the landfill gas survey subsurface measurements are presented in Table 2 and subsurface methane concentrations are plotted by survey point location on Figure 11. The concentrations of methane detected at a depth of 2 to 3 feet below the surface of the landfill ranged from non-detectable to as high as 76%, which are not atypical of a landfill of this size and age. The majority of the subsurface methane detections occurred in the central portion of the site. Section 4.0, below, discusses the measures to be utilized during construction and operation to ensure that methane concentrations will not pose a health and/or safety problem for workers or park users.

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In addition to the data generated during the soil gas survey, test pits excavated during the borrow potential evaluation were also screened for organic vapors. The test pit screening provides additional information on the subsurface generation of landfill gases. In most cases, the screening was performed using a flame ionization detector (FID) and, in some cases, a photoionization detector (PID). The FID is sensitive to a wide range of organic vapors, including methane. The PID responds to organic vapors other than methane (aromatic hydrocarbons but not chlorinated hydrocarbons) with an ionization potential less than or equal to 10.2 millivolts.

PID measurements were collected at 20 test pit locations; no positive readings were detected. In addition, FID measurements were collected at 27 test pits. In general, organic vapor concentrations based on FID measurements were higher in the western portion of the landfill, with FID readings ranging up to 0.7%, as compared to the eastern portion of the landfill. This corresponds with the more frequent occurrence of odors in the test pits on the western landfill (although methane is odorless, the detection of odors indicates that landfill gases are being emitted). Although FID readings were generally lower in the eastern portion of the landfill, the highest FID reading of >1% was noted in test pit TP-17 in the eastern portion of the landfill. Given the absence of positive PID readings, all or most of the FID responses are believed to be due to methane.

3.3 Soil Quality Assessment

3.3.1 Objectives and Evaluation Criteria

A soil boring program was conducted to obtain representative samples of site fill/waste materials for chemical analysis in areas of proposed excavation and development (e.g., in areas of proposed buildings and lakes). Secondarily, the borings were also useful in gathering information on:

- The thickness of the cover material;
- The thickness of the fill/waste materials;
- Subsurface soil/fill geotechnical properties; and
- Landfill gases.

These objectives were accomplished through the performance of a soil boring program which included the installation of 16 soil borings (B-1 through B-15, including B-11Alt) at various locations across the site between June 2 and 8, 1999. Soil borings were installed at the site in the vicinity of the proposed clubhouse facilities, restaurant and catering facilities, maintenance facilities, and lakes. The locations of soil borings are shown on Figure 12.

The results of the soil boring program are presented below, followed by discussions of the chemical analyses of soil cover and waste materials. The evaluation of the soil cover and waste material chemical data was conducted to determine whether the concentrations of chemicals in the cover or waste materials pose a risk to park users or workers.

To evaluate the potential human health risks associated with exposures to soil and/or waste materials, technical information prepared by the New York State Department of Environmental Conservation (DEC) and U.S. Environmental Protection Agency (USEPA) for the purposes of screening/evaluating soil was used in the absence of any Federal or New York State 'standards' for evaluating chemical concentrations in in-place soils. The sources of this information are outlined below:

1) <u>DEC's Technical and Administrative Guidance Memorandum HWR-94-4046 (TAGM 4046)</u>
TAGM 4046 provides a basis for determining soil cleanup levels at inactive hazardous waste sites. This document considers both the possibility of contaminants leaching from soils to ground water and direct exposure to soils. The Recommended Soil Cleanup Objectives (RSCOs) presented in the document are based on both of these considerations. Based on the fact that the site is an inactive landfill site with no ground water monitoring requirements, only health-based criteria presented in TAGM 4046 are used in the evaluation of soil and waste results herein. The TAGM 4046 risk-based exposure criteria for soil are developed based on a residential exposure scenario using USEPA's Health Effects Assessment Summary Table (HEAST). Since TAGM 4046 does not include risk-based criteria for heavy metals (the RSCOs in TAGM 4046 are based on site-specific, Eastern USA or New York State soil background levels and not on risk-based criteria), TAGM 4046 inorganic criteria are not considered in the evaluation provided herein. However, for reference purposes, supplemental tables have been included in Appendix A which compare soil and waste sample data to RSCOs and Eastern USA or New York State soil background levels from TAGM 4046.

2) USEPA Region III's Risk-Based Concentration Table (RBCT) (USEPA Region III, 4/12/99) includes criteria based on exposures to soil under 'industrial' exposure conditions. These criteria are useful in evaluating potential direct exposures to soils by workers. This document considers toxicological data from USEPA sources such as HEAST, IRIS and other sources.

3) TAGM 4046 also presents maximum values for groups of contaminants including total volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and pesticides and individual SVOCs (referenced to the States of Washington and Michigan).

4) For certain inorganics (e.g., lead, mercury and cyanide), risk-based criteria are not available under the USEPA Region III's RBCT. For these constituents, risk-based criteria based on direct exposures to soil under commercial/industrial exposure conditions developed under the Connecticut Remediation Standard Regulations (RSRs) (RCSA 22a-133k-1) are used for data evaluation purposes.

It is important to note that this analysis is not as rigorous as a risk assessment, which would consider the possible synergistic effects of the detected analytes. This analysis does, however, serve to identify areas where mitigative measures may be necessary during construction.

Another consideration in the evaluation of soil and waste sample results is that experience indicates that some analytes (specifically lead and polynuclear aromatic hydrocarbons (PAHs) are common in urban areas, and using state-wide averages of the occurrence of metals, do not fully consider the typical concentrations found in urban fill materials. Therefore, consideration of the prevalence of these compounds in urban areas may be appropriate in evaluating the results of the soil cover and waste material samples.

3.3.2 Field Investigation and Observations

Soil borings were advanced using hollow-stem auger drilling techniques to depths ranging between 12 and 52 feet below ground surface. In general, soil borings were advanced to a depth of approximately 10 feet beyond the depth of observed fill/waste material. Soil samples were typically collected continuously from ground surface to boring termination

using a 2-inch diameter split spoon sampler advanced using standard penetration test methods defined in ASTM 1586-84. In many cases, the presence of waste materials resulted in little or no recovery. The samples were screened for organic vapors using a PID. Lower explosive limit measurements were also made inside the auger during drilling. Following completion, each boring was backfilled with auger cuttings consistent with the DEC Technical and Administrative Guidance memorandum (TAGM) Disposal of Drill-Cuttings.

Borings B-1 through B-4 were drilled in the western portion of the site, in the area of the proposed clubhouse and waterfront facilities. Boring B-1 was advanced approximately 5 feet below observed fill/waste materials while boring B-2 did not completely penetrate the fill/waste unit and, due to poor recoveries, was terminated at a total depth of 20 feet below ground surface. Depths to ground water in this area ranged from 8 to 9 feet below ground surface. The soil borings encountered a surficial soil cover unit, underlain by a fill/waste material, which was in turn underlain by a soil fill unit. The surficial soil cover was approximately 2 feet thick and was composed either of a dark brown sand or sand and silt material with rounded gravel or crushed rock or a yellowish sand with variable quantities of clay, asphalt and organic (humus) material. The fill/waste material was observed to be composed of a orange-brown to black coarse sand and silt material with variable quantities of wood and glass fragments, metal shards, plastic and paper. This unit ranged in thickness from approximately 8 feet in boring B-1 to 16 feet in boring B-4. The soil fill material underlying the waste/fill unit was composed of grey medium stiff clay or yellow fine to coarse sand and silt. This unit was encountered at depths ranging from 10 to 18 feet below ground surface.

Borings B-5 through B-9 were drilled in the southeastern portion of the site, in the area of the proposed catering facility, maintenance facility and lake. Drilling at B-8 was halted at a depth of 14 feet. Depths to ground water in this area ranged from 5 to 18 feet below ground surface. The soil borings encountered a surficial soil cover unit, underlain by a fill/waste material, which was in turn underlain by soil fill unit. The surficial soil cover ranged from approximately 1 to 6 feet thick and typically consisted of a dark brown silt, consistent with that observed in the western portion of the site. Boring B-9 exhibited a

yellowish silt with traces of sand and mica as the cover material. The fill/waste material was observed to consist of dark brown to black silt with waste materials including ceramic, glass, brick and rock fragments, decomposed newspaper, plastic, nylon and ash materials. The fill/waste unit ranged in thickness between approximately 10 to 14 feet, with the exception of soil boring B-9 in which the fill/waste unit was observed to be approximately 30 feet thick. The soil fill material underlying the waste/fill unit was composed of a yellowish silty sand similar to that encountered in the western portion of the site with the exception of boring B-9, where layers of brown-black sand and light grey silty clay were identified.

Borings B-10, B-12, B-14 and B-15 were drilled in the remaining lake construction areas, in the northern and eastern portions of the site. Depths to ground water in these two areas ranged from 11 to 15 feet below ground surface and 9 to 11 feet below ground surface, respectively. The soil borings encountered a surficial soil cover unit, underlain by a fill/waste material, which was in turn underlain by soil fill unit. The surficial soil cover ranged from approximately 2 to 9 feet thick and typically consisted of a dark brown silt, consistent with that observed in the other portions of the site. The fill/waste material was observed to consist of silt ranging in color from yellow to black with waste materials including glass, brick and rock fragments, newspaper, plastic, nylon, wood and asphalt materials. At boring B-14, much of the fill was described as a black matrix of pulverized coal mixed with other waste materials. The fill/waste units ranged in thickness between approximately 16 to 18 feet in the northern lake area and 10 to 13 feet in the eastern lake area. The soil fill material underlying the waste/fill units in both areas was composed of a grey clay or silt material. The borings in the northern lake area also exhibited lenses of yellow or black sand.

The remaining three borings, B-11, B-11Alt and B-13, were located within the central fill area. Drilling at boring location B-11 was halted at a depth of 12 feet and drilling was re-started at boring location B-11Alt. Depths to ground water at these locations ranged from 8 to 10 feet below the ground surface. A surficial soil cover unit was encountered only at boring B-13. All borings exhibited a fill/waste material, which was in turn underlain by soil fill unit. The surficial soil cover at B-13 consisted of dark brown silt with fine sand and some organic (humus) material. The fill/waste material in borings B-11 and B-11Alt was observed

to consist of a black matrix of sand, wood, rock and glass fragments, metal, plastic, wood, paper and other waste materials. The fill/waste material in boring B-13 consisted of dark brown to black silt with sand, glass, rock and brick fragments, wood and plastic film. The fill/waste units ranged in thickness between approximately 12 to 30 feet. The soil fill material underlying the waste/fill units in was composed of a dark grey clay with little silt.

A single sample of waste/fill material was retained from each boring for chemical analysis, typically from the interval which exhibited the highest PID reading. In some cases, due to poor recovery, sufficient sample was not collected to support the performance of all chemical analyses (e.g., at boring B-2, the sampled interval provided sufficient sample volume to support analysis for volatiles only) or the samples submitted for analysis were collected from different depths within the boring (e.g., at boring B-12, the sample for volatile analysis was collected from the 6- to 8-foot interval while the sample for the remaining analyses was collected from the 18- to 22-foot interval). The waste samples were identified using a system where the boring number is followed by the split spoon interval from which the sample was collected. For example, sample B1-3 was collected from the third split spoon (i.e., from the 4- to 6-foot interval) from boring B-1.

In addition to the waste/fill material samples, a single cover soil sample was retained from each of the investigation areas for laboratory analysis. Cover soil samples were collected from borings B-2, B-7, B-8, B-10, B-11, B-13, and B-14. The samples were typically collected from the 0- to 2-foot interval, with the exception of the sample collected at boring B-14, which was collected from the 2- to 4-foot interval. The cover soil samples were identified using the same system described above for the waste material samples.

With the exception of the portion of the sample to be analyzed for VOCs, each of the soil samples selected for chemical analysis was homogenized in a decontaminated stainless steel bowl prior to transfer to laboratory-supplied sample containers. The fraction of the sample analyzed for VOCs was collected directly from the split spoon soil sample using EPA Method 5035 sampling techniques to minimize the loss of volatile compounds. Each of the samples was analyzed by York Analytical Laboratories, Inc. of Stamford, Connecticut for the

full Target Compound List (TCL) and Target Analyte List (TAL) of chemical constituents. Analytical parameters included:

- TCL VOCs by EPA Method 8260,
- TCL SVOCs by EPA Method 8270,
- TCL Pesticides/PCBs by EPA Methods 8081/8082, and
- TAL Inorganics by EPA Methods 6010 and 7471.

3.3.3 Soil Cover Characterization

The results of the chemical analysis of soil cover materials are presented in Table 3, where the results are compared to risk-based criteria (see Section 3.3.1 for a description of the evaluation criteria used herein). Only those constituents which were detected in at least one soil cover sample are listed in the tables; all other analytes were not detected.

The existing soil cover materials exhibit measurable concentrations of VOCs, SVOCs, pesticides, PCBs and metals. VOCs detected in the cover samples included aromatic and chlorinated hydrocarbons, while SVOCs detected in the cover soil samples included phenols, PAHs and phthalates. The pesticides detected in the cover samples included trace amounts (below standard detection levels) of DDE, DDD, DDT and chlordane.

When soil cover results are compared to risk-based criteria, as presented in Table 3, SVOCs and arsenic are the only contaminants detected at levels exceeding the risk-based criteria. The only SVOCs detected at levels exceeding health-based TAGM 4046 criteria were benzo(a)anthracene, benzo(a)pyrene, and dibenz(a,h)-anthracene, all PAHs. Exceedances of these PAH TAGM 4046 criteria were detected at five of seven cover sample locations. Benzo(a)pyrene was the only constituent detected at levels exceeding the EPA Region III RBCT industrial soil criteria, also at five of seven cover sample locations. As noted previously, PAHs are commonly elevated in samples of urban fill materials. Arsenic was detected in only one sample at a level exceeding the EPA Region III RBCT industrial soil criteria. It was detected at a level of 9.1 ppm, which is within the reported range of 3 to 12 ppm for arsenic in New York State background samples (TAGM 4046).

The expectation is that no cover materials will be removed from the site, although on-site movement is expected during construction.

Based on the testing to date and with the exception of PAHs and arsenic, the soil cover does not contain chemicals at concentrations which would be expected to pose a hazard to workers. However, based on the detection of exceedances of risk-based criteria for PAHs and arsenic, preparation of and compliance with a health and safety plan and any associated monitoring requirements will be necessary during construction and utility and maintenance work to ensure the protection of workers during activities requiring exposures to or disturbance of existing cover materials. As discussed in Section 4.2.1, the existing cover materials will be further covered with shaping materials (either excess cover material excavated from other portions of the site or imported materials), as well as final cover layer/topsoil, during development. These cover materials will isolate park users from the subsurface materials.

3.3.4 Waste Material Characterization

The results of the chemical analysis of waste materials are presented in Table 4, where the results are compared to risk-based criteria (see Section 3.3.1 for a description of the evaluation criteria used herein). Only those constituents which were detected in at least one waste material sample are listed in the tables; all other analytes were not detected.

The waste materials exhibit VOCs, SVOCs, pesticides, PCBs and metals. VOCs detected in the waste samples included aromatic and chlorinated hydrocarbons, while SVOCs detected in the waste soil samples included phenols, PAHs and phthalates. The pesticides detected in the waste samples included DDE, DDD, and DDT.

Table 4 presents a comparison of waste material results to risk-based criteria. SVOCs, PCBs, arsenic and lead are the only contaminants detected at levels exceeding the risk-based criteria. Exceedances of the TAGM 4046 risk-based criteria for benzo(a)anthracene were detected in 10 waste samples while exceedances of the TAGM 4046 risk-based criteria for benzo(a)pyrene were detected in 12 waste samples. Dibenzofuran, 2-methylnaphthalene, phenanthrene, chrysene, benzo(b)fluoranthene, and benzo(k)fluoranthene were each detected in a single sample at levels exceeding the 50 ppm individual SVOC limit established under TAGM. The total SVOC level in sample B5-6 also exceeded the TAGM 4046 total SVOC

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standard of 500 ppm. The only SVOCs detected at levels exceeding the EPA Region III RBCT were benzo(a)anthracene (in one sample), benzo(b)fluoranthene (in one sample) and benzo(a)pyrene (in three samples). As noted previously, PAHs are commonly elevated in samples of urban fill materials.

The EPA Region III RBCT industrial soil criterion for the PCB Aroclor 1260 of 2.9 ppm and the TAGM total PCB criterion of 10 ppm were exceeded by one waste sample, where PCBs were detected at a level of 18 ppm. This is below the 50 ppm threshold above which the soils would be considered hazardous.

The EPA Region III RBCT industrial soil criterion for arsenic was exceeded in six waste samples. The Connecticut industrial/commercial risk-based soil criterion for lead was exceeded in three waste samples.

Some excavation of waste materials on site will occur during construction of building foundations, utility installations, and the like. Excavated waste materials will be disposed of off site in accordance with applicable laws.

Based on the testing to date and the detection of exceedances of risk-based criteria for PAHs, PCBs, arsenic and lead, compliance with a health and safety plan and any associated monitoring requirements will be maintained during construction and utility and maintenance work to ensure the protection of workers during activities requiring exposures to or disturbance of waste materials. The cover material (shaping materials and final cover/topsoil) to be placed over the landfill surface will isolate park users from the subsurface waste materials (see Section 4.2.1 for a description of the shaping and final cover materials).

4.0 IMPACT ASSESSMENT

The impact assessment examines measures that will be utilized during and after construction of the proposed project to ensure that workers and park users are not exposed to harmful or hazardous materials.

4.1 Conditions during Construction

Construction will include activities such as:

1) the removal of excess cover materials from some portions of the site (e.g., areas where lakes will be constructed);

2) the excavation of waste materials from limited areas of the site (e.g., areas where buildings will be constructed and where utilities and drainage lines will be located);

3) management, including TCLP testing if necessary, of any excavated wastes for subsequent off site disposal; and

4) the placement of shaping materials (consisting of excess cover materials moved from other areas of the site and materials imported to the site) and topsoil over the surface of the site to contour the site for the golf course and other park facilities.

During construction, an air monitoring program will be implemented to monitor for the potential presence of dust and methane in and downwind of the work areas, especially during trenching and disturbances of the existing soil cover and/or waste materials. A health and safety plan will be developed and submitted to the New York City Department of Environmental Protection (DEP) for it's approval. That plan will define worker safety training and monitoring procedures, personal protective equipment, air monitoring equipment, action levels and appropriate mitigative and protective measures. The health and safety plan will focus on potential exposures to landfill gas as well as to those constituents detected at levels exceeding risk-based criteria in the soil cover and waste material, as described in Sections 3.3.3 and 3.3.4 and will require continuous monitoring during groundbreaking activities. If action levels established in the health and safety plan are

exceeded, construction activities will be temporarily halted. As necessary, gas venting, dust control, or other mitigative measures will be implemented prior to the reinitiation of the construction activities. A sample Health and Safety Plan outline is presented in Appendix B. All temporary construction facilities will also be monitored for and protected against potential methane buildup.

If extensive reworking of the existing waste materials is required, odor control or excavation limitations (based on wind speed and direction) will be implemented at locations where odors are detected during construction.

To construct the lakes on existing landfill material and minimize water leakage losses, an impermeable liner system that can withstand settlement will be constructed. The liner system will likely consist of a clean sand bedding layer, a non-woven geotextile cushion, an impermeable geomembrane liner, an upper non-woven geotextile cushion and a surface cover layer of fine crushed stone.

If DPR or any licensee proposes to make any significant revisions in the site plans that would result in significant new or additional excavation, then DEP would be consulted and it's approval sought prior to proceeding with any such excavation.

4.2 Post-Construction Conditions

Post-construction conditions will be greatly dictated by the physical and chemical nature of the final cover material which will be present over the golf course and parkland areas as well as by landfill gas control systems built into the confined space areas and structures. Another consideration in maintaining safe post-construction facilities at a landfill site is the differential settlement which may occur. Each of these factors is discussed in the following subsections.

4.2.1 Cover Materials

Cover materials will consist of two layers: 1) a shaping layer and 2) a final cover or topsoil layer. Details on the requirements for the cover materials in the golf course and parkland areas are provided in the following paragraphs.

The shaping material layer in both the public parks and golf course will consist of existing excess cover materials moved from other areas of the site, such as the proposed lakes and areas of excess cover (greater than 2 feet), and imported uncontaminated construction and demolition (C&D) materials. The materials to be imported for the shaping layer will meet the 6NYCRR Part 360-7 regulations pertaining to uncontaminated construction and demolition debris which is exempt from permit requirements. It is estimated that a total of approximately 500,000 to 600,000 cubic yards of fill will be used as the shaping layer to contour the golf course. Of this fill material, approximately 400,000 to 500,000 cubic yards will be imported to the project site, and the remainder (approximately 100,000 cubic yards) will be excess cover materials from the lakes and other areas on the project site.

The shaping material will be overlain by a final cover layer/topsoil layer consisting of uncontaminated soil materials imported from non-industrial sites which meet background levels. (Background levels will be determined in concert with and subject to the approval of DEP.) The final cover/topsoil layer will require the importation of approximately 200,000 cubic yards of materials to the site. The final cover/topsoil layer will be 12 to 24 inches thick in the two public parks. However, in all cases a minimum of 24 inches of cover meeting such background levels would be placed or retained for the two public parks. A minimum of 12 inches of material meeting such background levels would be placed or retained in the golf course, excluding the rough waste (out-of-bound) area. In the rough waste areas of the golf course, a minimum of 6 inches of material meeting such background would be placed or retained.

4.2.2 Landfill Gas Control Systems

The greatest potential for post-construction human health impacts is associated with the vertical and lateral subsurface migration of landfill gas and its subsequent collection in structure-confined spaces and buildings that could, if not properly vented, produce explosive conditions and other health and nuisance impacts. Gas venting through soil cover in open areas of the golf courses will not present explosive, health, or other nuisance impacts that affect user or worker safety.

The golf course and its ancillary facilities will incorporate features, especially with respect to confined space areas and structures, to ensure the safety of site users. Such features include landfill gas interception and venting systems below buildings. High-permeability passive and/or active landfill gas control systems to direct landfill gas away from buildings to controlled release points in areas where user safety is not affected. Other buried structures such as piping systems, manholes, handholes, and vaults require confined space warning markers. A safety plan and training, which will be submitted for approval to DEP, will be implemented to protect workers during both construction and operation.

The design of the golf course has taken into account the potential for landfill gas migration along utility pipes, trench bedding and backfill. Periodic low permeability soil plugs limit gas migration in pipe trenches, especially in the vicinity of buildings, manholes, handholes and vaults. The potential for landfill gas migration through cracks in electrical conduit, storm drain piping and sewer piping exists. Gas migrating through conduit and piping can travel to catch basins, drain inlets, manholes and handholes. Conduit seals in electrical conduit will be installed at handholes and building penetrations to prevent gas migration into these areas. Where feasible, building interior floor drains will be avoided. If building interior floor drains are required, they will include water traps to prevent gas intrusion into the building.

Outside storm drain catch basins and drain inlets have the potential for landfill gas to collect, unless appropriately designed and managed. While the potential for an errant match or lit cigarette to ignite methane inside a catch basin or drain inlets is low, measures will be taken to prevent such occurrences from happening. Where site conditions require storm drain inlets and catch basins, the choice of piping and inlet materials is important. Buried storm drain pipe will be butt fusion welded high density polyethylene (HDPE) pipe that eliminates the potential for joint leakage and provides maximum flexibility due to settlement and live loading. Catch basin and drain inlets are also available in HDPE, making them compatible with the piping material and able to form tight joint connections. Other similar high strength, high flexibility and low leakage piping and inlet systems may be employed, based on engineering considerations and contractor bids. The pipe penetrations

into catch basins or drain inlets will have downturned elbows or hood devices to create a water trap which submerges the pipe end and prevents gas migration into the structure. The golf course irrigation system will be designed to maintain these water levels at all times.

In areas where structures are built, landfill gas venting and appropriate monitoring systems will be provided. Venting systems can consist of passive vents, continuous mechanical venting, or intermittent mechanical venting controlled by a methane monitor. The selection of the venting system will be made during the final building design, based on site-specific gas conditions and details of the structures' design, though it is expected that the clubhouse, boathouse grill, fine dining/banquet facility, structures on the driving range, and managers residence will all utilize active venting systems. A preliminary analysis of venting requirements is presented below.

In order to establish an estimate of the venting requirements for building sub-slab areas, an analysis of the potential methane generation rate at the site was performed. There are no precise methods for estimating the rate at which methane will be generated from the existing waste material underlying the site. Methane generation can vary due to many factors such as waste composition, age, moisture, density and temperature. Daily barometric pressure changes can also affect daily release rates for stored gas within the waste. The recommended method for methane generation estimation is to calculate a rate based upon an accepted formula and apply a factor of safety to account for the variability in gas generation. The method selected for methane generation analysis for this project was selected from the United States Environmental Protection Agency Publication AP-42 Fifth Edition dated January 1995 and entitled "Compilation of Air Pollutant Emission Factors." Equation (1) contained in Section 2.4.4.1 of AP-42 was used. The equation takes into account the age of the waste, the waste acceptance rate during active life and several constants for methane generation potential and rate constant based on conditions at this site.

The methane generation rate calculation is presented in Appendix C. The test borings at the site indicate a maximum waste thickness of 37 feet which was used to conservatively estimate the maximum waste acceptance rate. A waste density of 1,000 lbs per cubic yard was also used to calculate the acceptance rate. Waste deposition was based on the time

period from 1952 to 1962. The methane generation potential constant was set at 125 cubic meters of methane per megagram of refuse and the methane generation constant was set at 0.04 per year. The AP-42 method, which estimates the methane generation rate per square foot of landfill surface area, derived a current generation rate for methane of 0.00004 cubic feet per minute (cfm) of gas per square foot of surface area.

The lower explosive limit (LEL) for methane gas is 5% concentration in air. In order to maintain a safe gas concentration in the air beneath a structure, it is recommended that the methane concentration be maintained at less than 20% of LEL, which translates to a 1% concentration of methane in air. Therefore at a gas generation rate of 0.00004 cfm per sq. ft. of surface area for this site, there would have to be an air exchange rate of at least 0.004 cfm of air per square foot of building surface area to stay below the 1% level. A factor of safety of 2 on the air flow rate is recommended to account for variability and uncertainties in generation rate. The site would therefore require the venting of building sub-slabs at a rate of at least 0.008 cfm of air per square foot. As an example, a building measuring 50 feet by 100 feet (5,000 square feet) would require a blower capacity of at least 40 cfm.

Sub-slab venting systems will be designed with dual blowers at the full air flow capacity to ensure continuous operation and provide additional capacity if needed to handle short term fluctuations in gas generation and gas venting from the waste below.

An alarm system will be installed to alert occupants of a problem before any explosive conditions occur in all structures where methane could collect. Automated monitoring of methane will be provided on the gas venting system and in the building space in potential critical areas where gas has potential to accumulate. The gas sensors will be connected to a central building alarm to alert the site operators of the need to check the venting system operation and monitoring system calibration. Sensors within any interior building space are recommended to be set at a concentration of 10% of LEL for methane and venting system sensors are recommended to be set at 20% of LEL. Routine explosive gas sensor calibration and alarm system testing will be performed to ensure continued safe use of the buildings.

The venting system will prevent the buildup of methane gas concentrations. In addition, during construction, site workers and contractors will be trained and educated in proper procedures regarding landfill gas issues. This training will be part of a site landfill gas Health and Safety Plan that will be utilized during the construction phase. The Health and Safety Plan will also address health and safety issues and their management during site operation. A sample Health and Safety Plan outline is presented in Appendix B.

The effect of landfill gas venting through the vegetative support soil layer over the golf course is anticipated to have limited and isolated overall impact to the health of the turf grasses. The age of the waste material at this site will result in generally lower production rates for landfill gas than a younger landfill having more readily decomposable waste. After 20 years of waste decomposition, only the least decomposable organic waste material remains, which accounts for approximately 30 percent of the total landfill gas produced over the life of the landfill. The decomposition of this material occurs much more slowly, resulting in significantly lower gas production rates in the later years of a landfill. The importance of the gas production rate is that it has a direct impact on the landfill gas concentrations in the shallow vegetative soil cover root zone. At lower production rates, the gas concentrations remain fairly low if the soil does not have the excessive silt and/or clay content that can trap gas within the root zone.

The potential for landfill gas to migrate to the surface and effect vegetation on the fairways is currently being addressed through additional landfill gas sampling focusing on the occurrence of methane in the root zone of the grasses used for the fairways, the top 6 inches of soil. This data will be used to determine if venting of methane in areas other than buildings, greens, water features, and other paved areas is necessary. If this venting is necessary, it will be provided.

For the greens, to prevent contact of landfill gas within the turf root zone, where necessary, the vegetative support and drainage layer of the greens be constructed above an impermeable barrier layer that has a permeable gas venting layer beneath the barrier layer. Gas beneath the barrier layer will be vented by passive means that may include the installation of gravel perforated piping within the gas vent layer to enhance the collection of

gas. The discharge of gas will be via a passive vent that is a safe distance and height from site users. The barrier layer may consist of an impermeable membrane material commonly used in landfill covers or a very low permeability layer of soil that has sufficient clay content and thickness to minimize gas migration to the turf root zone. The need for these measures and details will be evaluated on a green-by-green basis during the final design phase of the project.

Several pond areas will be constructed on the site. The ponds will have impermeable membrane liner systems to retain the water with minimal leakage. Water from the ponds will be available for irrigation of the site. Because landfill gas may collect beneath the pond liners, a gas venting layer will be placed beneath them. The gas venting layer also serves as a suitable cushion for the pond liner. Passive gas collection and venting of the pond liners will be addressed in the same manner as the greens to ensure safety.

As part of the final design process, details of the landfill gas control systems to be utilized will be submitted to DEP for their approval. DEP will provide comments and any recommendations for improvements of the proposed systems in a timely manner (i.e., with 10 days) so that construction can proceed without delays.

4.2.3 Differential Settlement

Continuing settlement of landfill waste material across the site requires additional measures to protect building structures, buried utilities and paved areas. Differential settlement in landfills is difficult to control due to extremely variable waste properties and past waste placement practices. Pile- or drilled-pier-supported structures are typically required at landfill construction sites. The design of the foundation support systems requires a complete geotechnical field investigation and testing program. While the support of the buildings on piles or drilled piers eliminates the building settlement, it creates potential differential settlement problems where utility lines enter the buildings and at walkway entries. Fill around the buildings will continue to settle, while the building is fixed. Special measures must be implemented to allow fill settlement without damaging utility lines and settling walkways at entries.

Drainage problems can also be created around structures due to settlement. Adequate surface grades will be provided to account for settlement and minimize potential ponding of surface runoff. Extra storm drain inlets provided around the building foundations also enhance drainage. Paved driveways and parking areas will be designed with adequate slopes to prevent ponding in areas where differential settlement occurs. In addition, the installation of geogrid or geonetting may be required beneath paved areas to reduce the effects of differential settlement on pavement deterioration. Gas venting of large paved areas is not required, especially if frequent vegetated buffer strips are provided.

Buried utility lines will be designed with materials that can withstand forces imposed on the piping systems due to differential settlement and have sufficient flexure to prevent failure or joint separation. Couplings that are designed to deflect due to settlement will be employed. Flexure couplings at pipe penetrations into buildings, structures, manholes and vaults can accommodate the effects of settling. Piping systems requiring slopes to drain by gravity flow, such as sanitary and storm sewers, will be designed with steeper grades than required to allow for settlement and prevent low spots.

4.2.4 Hydrologic Conditions

Existing conditions at the site consist of small paved areas, with most of the site covered by tall grasses. Existing cover materials range in thickness but average approximately 2 feet thick over the site. They typically consist of sands and silts. The existing cover material and topography of the majority of the site do not appear to have been designed to limit infiltration of precipitation or to encourage runoff.

An analysis of the effects of irrigation on infiltration due to the development of the site as a golf course was prepared by JWE Engineering (see Appendix D). That analysis indicates two major factors which will affect the infiltration of water through the golf course: the increase in the impervious surface area and the controlled application of irrigation water.

The site development will result in approximately 26 acres of impervious area, a significant increase over the current conditions. Runoff collection associated with these areas and much of the other golf course areas which will also be connected to drainage systems,

will reduce infiltration related to rainfall events. Rainfall will be collected in detention facilities, and excess rainfall will be discharged from the site via a drainage system.

The proposed irrigation system will utilize sophisticated equipment to monitor water needs and control water application. In addition, the additional shaping materials and final cover materials added to the site will provide additional moisture retention capacity above the waste layer. When the golf course is constructed the final cover/topsoil placed over the golf course will likely increase evapotranspiration by supporting a uniform layer of vegetation and will also be graded to encourage runoff.

Based on the considerations described in the preceding paragraphs, irrigation activities are unlikely to increase infiltration.

TABLE 1
SUMMARY OF TEST PIT OBSERVATIONS
FERRY POINT PARK SITE, BRONX, NEW YORK

Test Pit Number	Total Depth (ftbg)	Depth to Ground Water (ftbg)	Cover Thickness (ft)	Waste Description	Comments (FID*, other observations)
Western Portion					
TP-1	12	10	2	Wood, metal, glass, newspaper; black	0.7%
TP-2	12	10	6	Wood, metal, glass, newspaper, tires; black	0.03%
TP-3	11.5	none	3.5	Wood, metal, glass, soil, brick/rock, possible ash; black	0.009%
TP-4	12.5	none	2.5	Wood, metal, glass, soil, brick/rock	0.009%
TP-5	12.5	none	1.5	Metal, glass, soil, municipal waste, possible ash; black	0.03%
TP-6	11	11	2	Wood, metal, glass, municipal solid waste; black	0.01%
TP-7	12	none	3.5	Wood, glass, plastic, metal, municipal solid waste; black	0.0025%
TP-8	12	none	1.5	Wood, metal, glass, municipal solid waste; black	Odor, 0.28%
TP-9	15	11.5	2.5	Wood, metal, municipal solid waste; black	Odor, 0.06%
TP-10	13	none	2	Wood, metal, glass, municipal solid waste; black	0.3%
TP-11	13	10	2.5	Wood, metal, glass, municipal solid waste; black	0.8%
TP-12	12.5	none	1.5	Wood, metal, mattress springs, municipal solid waste; black	0.008%
TP-13	12	none	2	Wood, metal (auto parts), possible ash, municipal solid waste; black/gray	Odor, 0.5%
TP-14	12	none	1.5	Metal, glass, municipal solid waste, organics; black	Odor, 0.3%
TP-15	11	8	8	Wood, metal, glass, municipal solid waste; black, possibly oily	0.0015%
TP-25	11	7	2	Wood, metal, glass, plastic	Little or no waste below 7 ft
TP-26	9	7	2	Wood, rubber, glass, soil	
TP-27	9.5	5	--	No waste encountered	0.0005%
TP-28	11	9.5	3.5	Wood, metal, glass, brick, plastic, possible ash	
TP-32	11	none	0	Brick, soil	
TP-33	12	11	2.5	Wood, metal, brick, soil	
TP-36	11.5	10	2	Metal, glass, possible ash	0.0015%
TP-37	11	6.5	5.5	Wood, glass, plastic, metal (auto parts); black, possibly oily	Some odor

TABLE 1 SUMMARY OF TEST PIT OBSERVATIONS FERRY POINT PARK SITE, BRONX, NEW YORK					
Test Pit Number	**Total Depth (ftbg)**	**Depth to Ground Water (ftbg)**	**Cover Thickness (ft)**	**Waste Description**	**Comments (FID*, other observations)**
TP-38	13	12	5	Metal, glass, plastic, wood, soil	Some debris in cover; possible native material below 10 ft
Eastern Portion					
TP-16	5	3	--	No wastes encountered	0.0004%
TP-17	10	none	5	Wood, insulation, tires, brick, car battery	Some metal debris in cover, >1%
TP-18	13	none	5	Tires, metal, glass, newspaper	0.003%
TP-19	6	5	4	Glass, metal, shoes, wire, cans; black	0.002%
TP-20	13.5	10.5	5	Glass, wood, metal, soil	0.0007%
TP-21	12	none	4	Wood, metal, glass, soil; black-brown	0.0015%
TP-22	12	11.5	--	No significant wastes encountered	Brick debris in cover, 0.008%
TP-23	13	none	5	Black ash, metal, glass, wire; appears to be burned/incinerated	0.01%
TP-24	8	none	4	Metal, auto parts, glass	0.006%
TP-29	11	none	4	Glass, wood, tires, metal, soil	
TP-30	11.5	none	5	Metal, brick, wood, tile, water heater, soil	
TP-31	10	none	3	Metal, glass, wood, concrete	
TP-34	12	none	5	Wood, metal, municipal solid waste, soil	
TP-35	12	none	7	Wood, metal	0.0008%

ftbg= feet below grade

* Comments include FID readings; highest reading at each location (filtered or unfiltered) is presented in percent.

TABLE 2
LANDFILL GAS DATA

Ferry Point Park, Bronx, New York

Survey Point	Approx. Cover Depth (ft)*	Landtec G-90 Landfill Gas Analyzer Da		
		CH4 (%)	CO2 (%)	O2 (%)
GP-01	3	0.0	0.0	20.3
GP-02	3	0.0	2.3	17.7
GP-03	4	1.9	0.5	19.2
GP-04	--	0.0	0.0	21.0
GP-05	--	76.0	13	0
GP-06	5	2	0	20
GP-07	4	0	1	20
GP-08	3	0.0	0	21
GP-09	7	6	1.0	18
GP-10	--	0.0	0	21
GP-11	4	0.0	0	20
GP-12	5	0.0	0	20
GP-13	4	0.0	0	21
GP-14	8	0.0	0	20
GP-15	2	27	9	0.0
GP-16	2	0	1	21
GP-17	6	1	13	5.0
GP-18	4	0.0	0	20.0
GP-19	2	1	15	3
GP-20	3	1	13	5
GP-21	2	21	18	1
GP-22	8	1.0	1	20
GP-23	--	48	23	0.0
GP-24	3	17	12	9
GP-25	--	NR	NR	NR
GP-26	--	37	19	0.0
GP-27	2	36	18	1
GP-28	2	12	8	12
GP-29	2	39	15	0.0
GP-30	4	33	17	0.0
GP-31	--	48	22.0	0.0

NR = No Reading
* Soil cover depth based on measurements made at adjacent test pit or soil boring locations. If there was no nearby test pit or soil boring location, no value is provided.

TABLE 3
COMPARISON OF CONTAMINANTS DETECTED IN EXISTING COVER MATERIAL TO RISK-BASED CRITERIA
FERRY POINT PARK, BRONX, NEW YORK

Parameter	B2-Cover 0' - 2'	B7-2 - Cover 2' - 4'	B8-1-Cover 0' - 2'	B10-1-Cover 0' - 2'	B11-1-Cover 0' - 2'	B11-1 - Dup 0' - 2'	B13-1-Cover 0' - 2'	B14-2-Cover 2' - 4'	Field Blank	Trip Blank	TAGM Health-Based Criteria (ppb)	EPA Region III RBCT (ppb)
TCL VOCs (ppb)												
Methylene chloride	500 B	900 B	470 B	480 B	490 B	550 B	360 B	400 B	430 B	480 B	9,300	760,000
Acetone	1,400 B	3,800 B	860 B	960 B	1,000 B	1,100 B	1,000 B	1,300 B	690 B	720 B	8,000,000	200,000,000
Chloroform	200	200	32 J	39 J	35 J	30 J	130	130			114,000	940,000
2-Butanone		140 J						270			4,000,000	N/A
Benzene				50 J		31 J					24,000	200,000
Tetrachloroethene		650									14,000	110,000
Toluene	36 J	46 J		92 J	47 J	59 J	63 J	37 J			20,000,000	410,000,000
Chlorobenzene						72 J					2,000,000	41,000,000
Ethylbenzene				40 J	26 J	43 J					8,000,000	200,000,000
Xylene (total)		24 J		290 J	50 J	68 J		18 J			200,000,000	4,100,000,000
TOTAL VOCs*	236	1,060	32	511	158	303	193	455			10,000	
TCL SVOCs (ppb)									NA	NA		
2-Methylphenol			110 J								50,000	100000000
4-Methylphenol				68 J							4,000,000	10,000,000
Isophorone								140 J			1,707,000	6,000,000
Naphthalene		74 J	2,200 J	780 J	960 J	350 J	340 J	120 J			300,000	41,000,000
4-Chloro-3-methylphenol								15 J			50,000	N/A
2-Methylnaphthalene		29 J	330 J	390 J	140 J	120 J	360 J	85 J			50,000	N/A
2-Chloronaphthalene				69 J							50,000	N/A
Dimethylphthalate								110 J			80,000,000	20,000,000,000
Acenaphthylene				2,000 J			44 J	20 J			50,000	N/A
Acenaphthene		6 J	160 J	330 J	92 J	94 J	110 J	110 J			5,000,000	120,000,000
4-Nitrophenol								140 J			50,000	16,000,000
Dibenzofuran			76 J	700 J	42 J	47 J	87 J	100 J			50,000	8,200,000
Diethylphthalate		29 J		150 J				110 J			60,000,000	1,600,000,000
Fluorene			900 J	1,100 J			230 J	150 J			3,000,000	82,000,000
Pentachlorophenol				230 J				35 J			2,000,000	48,000
Phenanthrene	29 J	38 J	1,600 J	4,500 J	960 J	970 J	1,700	1,600			50,000	N/A
Anthracene	7 J		390 J	1,400 J	190 J	230 J	440 J	370 J			20,000,000	610,000,000
Di-n-butylphthalate	31 J	76 J	130 J	180 J			41 J	51 J			8,000,000	N/A
Fluoranthene	61 J	63 J	2,600 J	9,700	1,300 J	1,700 J	2,200	1,900			3,000,000	82,000,000
Pyrene	78 J	99 J	2,800 J	9,100	1,600 J	2,100 J	2,200	2,700			2,000,000	61,000,000
Butylbenzylphthalate		840				190 J	65 J	60 J			20,000,000	410,000,000
Benzo(a)anthracene	50 J	71 J	**1,400** J	**4,600** J	**800** J	**1,000** J	**1,100**	**1,000**			224	7,800
Chrysene	47 J	65 J	1,500 J	4,800 J	950 J	1,300 J	1,100	980			50,000	780,000
bis(2-Ethylhexyl)phthala	37 J	590 J	270 J	490 J	1,200 J	1,300 J	300 J	160 J			50,000	410,000
Di-n-octylphthalate				130 J							2,000,000	N/A
Benzo(b)fluoranthene	46 J		1,200 J	4,800 J	540 J	990 J	820	1,000			50,000	7,800
Benzo(k)fluoranthene	25 J	39 J	1,400 J	5,100 J	660 J	1,200 J	740	850			50,000	78,000
Benzo(a)pyrene			**1,300** J	**4,900** J	**760** J	**1,100** J	**890**	**920**			61	780
Indeno(1,2,3-cd)pyrene				3,200 J			680 J	1,100			50,000	7,800
Dibenz(a,h)anthracene				**820** J			**260** J				14	780
Benzo(g,h,i)perylene				3,000 J			630 J	1,200			50,000	N/A
TOTAL SVOCs	411	2019	18,366	62,537	10,194	12,691	14,337	15,026			500,000	

B = Detected in blank sample
J = Estimated
BOLD = criterion exceeded
NA = Not Analyzed
N/A = Not Available
ND = Not Detected

Only TAGM health-based criteria are listed. Where health-based criteria for individual SVOCs are not available under TAGM, the 50 ppm TAGM limit for individual SVOCs is used.

* Due to the presence of methylene chloride and acetone in the blank samples, the reported concentrations of these compounds in the soil cover samples are considered to be attributable to laboratory contamination and are not included in the Total VOC values

TABLE 3 (Continued)
COMPARISON OF CONTAMINANTS DETECTED IN EXISTING COVER MATERIAL TO RISK-BASED CRITERIA
FERRY POINT PARK, BRONX, NEW YORK

Parameter	B2-Cover 0' - 2'	B7-2 - Cover 2' - 4'	B8-1-Cover 0' - 2'	B10-1-Cover 0' - 2'	B11-1-Cover 0' - 2'	B11-1 - Dup 0' - 2'	B13-1-Cover 0' - 2'	B14-2-Cover 2' - 4'	Field Blank	Trip Blank	TAGM Health-Based Criteria (ppb)	EPA Region III RBCT (ppb)
TCL Pesticides/PCBs	ALL ND		ALL ND	ALL ND		ALL ND	ALL ND		NA	NA		
4,4'-DDE		32 J									2,100	17,000
4,4'-DDD		26 J									2,900	24,000
4,4'-DDT		22 J									2,100	17,000
alpha-Chlordane								15 J			540	16,000
gamma-Chlordane								15 J			540	16,000
TOTAL PESTICIDES		80						30			10,000	
PCB Aroclor-1248					720							2,900
TOTAL PCBs					720						1,000	
TAL Metals (ppm)									NA	NA		(ppm)
Aluminum	10,600	11,700	8,840	1,870	6,290	4,960	8,270	7,980				2,000,000
Arsenic	2	9	1				3	2				4
Barium	99	901	175	16	319	235	90	108				140,000
Cadmium		17	1			1						2,000**
Calcium	1,270	29,200	37,000	79,400	32,100	36,200	5,500	6,660				N/A
Chromium	44	77	22	6	20	15	20	19				6,100***
Cobalt	12	14	9	2	8	6	6	7				150,000
Copper	34	1,340	189	17	100	49	29	38				82,000
Iron	16,800	176,000	21,500	6,140	24,400	27,000	14,300	15,600				610,000
Lead	14	927	227	32	252	143	64	147				1,000
Magnesium	4,600	2,280	23,600	41,100	13,800	15,130	2,830	3,430				N/A
Manganese	346	1,250	266	113	286	258	265	316				290,000**
Nickel	70	126	31	3	23	19	22	22				41,000
Potassium	2,490	1,270	1,120	677	1,660	1,350	996	881				N/A
Selenium	5	52					3	3				10,000
Silver		2										10,000
Sodium		2,570	800	714	591	683	229	185				N/A
Vanadium	34	91	25	18	27	27	22	29				14,000
Zinc	58	2,370	921	28	193	226	107	135				610,000
Mercury	0		0		0		0					610
Cyanide, Total		7										41,000

B = Detected in blank sample
J = Estimated
BOLD = criterion exceeded

NA = Not Analyzed
N/A = Not Available
ND = Not Detected

Only TAGM health-based criteria are listed.
In the absence of EPA Region III RBCT values for lead, mercury and zinc, Connecticut risk-based Remediation Standard Regulation values based on industrial/commercial direct contact exposures are used.

TABLE 4
COMPARISON OF CONTAMINANTS DETECTED IN WASTE MATERIALS TO RISK-BASED CRITERIA
FERRY POINT PARK, BRONX, NEW YORK

Parameter	B1-3 4' - 6'	B2-2 4' - 6'	B3-6 8' - 10'	B4-6 10' - 12'	B5-6 10' - 12'	B6-9 16' - 18'	B7-6 10' - 12'	B8-7 12' - 14'	B9-6 10' - 12'	TAGM Health-Based Criteria (ppb)	EPA Region III RBCT (ppb)
TCL VOCs (ppb)											
Vinyl chloride									74 J	N/A	3,000
Methylene chloride	720 B	2,100 B	920 B	850 B	470 B	600 B	1,000 B	750 B	560 B	9,300	760,000
Acetone	3,100 B	7,900 B	3,500 B	3,600 B	1,600 B	1,800 B	4,200 B	1,800 B	1,600 B	8,000,000	200,000,000
1,2-Dichloroethylene (total)			370	75 J						2,000,000	18,000,000
Chloroform	110	270	130	150	170	120	190	41 J	120	114,000	940,000
2-Butanone			190 J	780	350	130 J	180 J		370	4,000,000	N/A
Trichloroethylene			230	49 J				44 J		64,000	520,000
Benzene	36 J	96 J	70 J	300		110	77 J	76 J	67 J	24,000	200,000
Tetrachloroethene			640			60 J		66 J	29 J	14,000	110,000
Toluene	41 J	140	170	1,200	970	130	150	200	140	20,000,000	410,000,000
Chlorobenzene		300	300	460			410	800		2,000,000	41,000,000
Ethylbenzene			55 J	180	1,400	110	58 J	220	42 J	8,000,000	200,000,000
Styrene					250					N/A	410,000,000
Xylene (total)		83 J	210	650	2,900	200	190	330	130	200,000,000	4,100,000,000
TOTAL VOCS*	187	889	2,365	3,844	6,040	860	1,255	1,777	972	10,000	
TCL SVOCs (ppb)		NA									
2-Chlorophenol			20 J							400,000	10,000,000
1,4-Dichlorobenzen	160 J									N/A	240,000
1,2-Dichlorobenzene						50 J				N/A	180,000,000
4-Methylphenol	14 J		30 J	82 J			20 J	290 J	22 J	4,000,000	10,000,000
2,4-Dimethylphenol	11 J									N/A	41,000,000
Naphthalene	700 J		210 J	430 J	250,000	230 J	210 J	1,300 J	180 J	300,000	41,000,000
4-Chloro-3-methylphenol			24 J	9 J						50,000	N/A
2-Methylnaphthaler	140 J		140 J	140 J	250,000	120 J	92 J	580 J	120 J	50,000	N/A
Acenaphthylene			10 J	31 J	11,000 J	20 J	16 J		21 J	50,000	N/A
Acenaphthene	68 J		160 J	140 J	63,000 J	94 J	150 J	440 J	120 J	5,000,000	120,000,000
Dibenzofuran	47 J		97 J	110 J	60,000 J	47 J	60 J	290 J	83 J	50,000	8,200,000
Diethylphthalate	27 J		26 J	11 J		42 J		370 J	28 J	60,000,000	1,600,000,000
Fluorene	63 J		200 J	230 J	160,000	70 J		760 J	190 J	3,000,000	82,000,000
N-nitrosodiphenylamine								300 J		N/A	1,200,000
Pentachlorophenol			42 J							2,000,000	48,000
Phenanthrene	170 J		1,100	1,300	550,000	450 J	960 J	4,000 J	1,400	50,000	N/A
Anthracene	30 J		260 J	230 J	120,000	110 J	280 J	910 J	300 J	20,000,000	610,000,000
Di-n-butylphthalate	66 J		130 J	46 J		130 J	66 J	1,100 J	120 J	8,000,000	N//A
Fluoranthene	360 J		1,300	1,300	220,000	520 J	1,400	4,400 J	2,000	3,000,000	82,000,000
Pyrene	170 J		1,200	1,500	620,000	760 J	1,900	4,500 J	3,000	2,000,000	61,000,000
Butylbenzylphthalat	18 J		130 J					1,400 J		20,000,000	410,000,000
Benzo(a)anthracen	70 J		570 J	690 J	130,000	260 J	630 J	2,000 J	1,200	224	7,800
Chrysene	88 J		620 J	790 J	120,000	270 J	580 J	2,000 J	1,300	50,000	780,000
bis(2-Ethylhexyl)ph	200 J		20,000	1,900		310 J	12,000	24,000	440 J	50,000	410,000
Di-n-octylphthalate			48 J	18 J				660 J		2,000,000	N/A
Benzo(b)fluoranthe	53 J		420 J	530 J	68,000 J	240 J	470 J	1,500 J	1,100	50,000	7,800
Benzo(k)fluoranthe	50 J		400 J	520 J	69,000 J	180 J	490 J	1,500 J	1,100	50,000	78,000
Benzo(a)pyrene	55 J		450 J	590 J	92,000 J	260 J	340 J	1,200 J	1,000	61	780
Indeno(1,2,3-cd)pyrene			360 J	410 J					1,000	50,000	7,800
Benzo(g,h,i)perylene				380 J						50,000	N/A
TOTAL SVOCs	2,560		27,947	11,387	2,783,000	4,163	19,664	53,500	14,724	500,000	
TCL Pesticides/PCBs (ppb)		NA	ALL ND								
4,4'-DDE				20 J			11 J	88		2,100	17000
4,4'-DDD				37 J			67	360		2,900	24,000
4,4'-DDT				35 J			17 J	53		2,100	17,000
TOTAL PESTICIDES				92			95	501		10,000	
PCB Aroclor-1242	870										2,900
PCB Aroclor-1260						18,000					2,900
TOTAL PCBs										10,000	
TAL Metals (ppm)		NA									(ppm)
Aluminum	6,390		10,600	6,590	6,670	7,740	8,210	7,580	7,470		2,000,000
Arsenic			6	16	8				3		4
Barium	173		334	261	768	1,020	105	854	135		140,000
Cadmium	2		2	3		9		4	1		2,000**
Calcium	5,440		36,000	22,700	13,800	37,200	4,110	45,800	18,700		N/A
Chromium	72		38	24	16	68	30	82	25		6,100***
Cobalt	9		10	6	6	19	9	11	8		150,000
Copper	2,620		205	68	89	970	41	266	90		82,000
Iron	29,600		43,500	17,200	16,500	216,000	26,800	79,700	28,800		610,000
Lead	448		673	289	287	1,200	85	1,030	461		1,000
Magnesium	3,010		21,600	3,200	2,940	2,850	3,360	5,900	3,290		N/A
Manganese	597		434	169	151	1,200	418	655	314		290,000**
Nickel	49		52	24	23	156	32	109	32		41,000
Potassium	1,440		3,160	2,110	1,060	1,020	1,750	830	1,080		N/A
Selenium	5		2	13	4	37	7		2		10,000
Silver						19		13			10,000
Sodium	611		607	947	537	2,590	333	1,800	484		N/A
Vanadium	33		41	20	23	78	30	55.2	40		14,000
Zinc	568		462	375	189	1,880	98	1,350	367		610,000
Mercury			1	0		1	1	1	0		610
Cyanide, Total						3					41,000

B = Detected in blank sample
J = Estimated
BOLD = exceeds screening leve
NA = Not Analyzed
ND = Not Detected
N/A = Not Available

* Due to the presence of methylene chloride and acetone in the blank samples, the reported concentrations of these compounds in the soil cover samples are considered to be attributable to laboratory contamination and are not included in the Total VOC values.

Only TAGM health-based criteria are listed. Where health-based criteria for individual SVOCs are not available under TAGM, the 50 ppm TAGM limit for individual SVOCs is used. In the absence of EPA Region III RBCT values for lead, mercury and zinc, Connecticut risk-based Remediation Standard Regulation values based on industrial/commercial direct contact exposures are used.

TABLE 4 (Continued)
COMPARISON OF CONTAMINANTS DETECTED IN WASTE MATERIALS TO RISK-BASED CRITERIA
FERRY POINT PARK, BRONX, NEW YORK

	B10-3 4' - 6'	B11-6 10' - 12'	B12-4 6' - 8'	B12-10+11 18' - 22'	B13-10 20' - 22'	B14-8 12' - 14'	B15-7 12' - 14'	Field Blank	Trip Blank	TAGM RSCO (ppb)	EPA Region III RBCT (ppb)
TCL VOCs (ppb)				NA							
Vinyl chloride										N/A	3,000
Methylene chloride	450 B	560 B	400 B		600 B	950 B	500 B	430 B	480 B	9,300	760,000
Acetone	930 B	1,400 B	960 B		1,800 B	3,400 B	2,100 B	690 B	720 B	8,000,000	200,000,000
1,2-Dichloroethylene (total)										2,000,000	18,000,000
Chloroform	32 J	31 J	29 J		150	350	170			114,000	940,000
2-Butanone					320	140 J	1,000			4,000,000	N/A
Trichloroethylene										64,000	520,000
Benzene	29 J	31 J			45 J	70 J				24,000	200,000
Tetrachloroethene										14,000	110,000
Toluene	69 J	86 J	33 J		99 J	130	140			20,000,000	410,000,000
Chlorobenzene		130			40 J	500				2,000,000	41,000,000
Ethylbenzene	27 J				71 J					8,000,000	200,000,000
Styrene	25 J									N/A	410,000,000
Xylene (total)	85 J	48 J	26 J		290	200	250			200,000,000	4,100,000,000
TOTAL VOCS	267	326	88		1,015	1,390	1,560			10,000	
TCL SVOCs (ppb)			NA					NA	NA		
4-Methylphenol		280 J			16 J	46 J	100 J			4,000,000	10,000,000
Naphthalene	270 J	2,200		6,400 J	170 J	290 J	1,400			300,000	41,000,000
2-Methylnaphthalen	88 J	330 J		1,400 J	110 J	120 J	230 J			50,000	N/A
Acenaphthylene	870 J				17 J	14 J	22 J			50,000	N/A
Acenaphthene	120 J	750 J		100 J	92 J	36 J	50 J			5,000,000	120,000,000
Dibenzofuran	160 J	340 J		51 J	75 J	30 J	31 J			50,000	8,200,000
Diethylphthalate					28 J	32 J				60,000,000	1,600,000,000
Fluorene	300 J	900 J			170 J	54 J	69 J			3,000,000	82,000,000
Phenanthrene	1,500 J	5,100 J		480 J	770 J	300 J	270 J			50,000	N/A
Anthracene	490 J	1,300 J		95 J	130 J	48 J				20,000,000	610,000,000
Di-n-butylphthalate	150 J			220 J	350 J	130 J	89 J			8,000,000	N/A
Fluoranthene	4,200 J	5,400 J		480 J	560 J	330 J	250 J			3,000,000	82,000,000
Pyrene	4,700 J	5,600 J		510 J	620 J	430 J	450 J			2,000,000	61,000,000
Butylbenzylphthalate		190 J								20,000,000	410,000,000
Benzo(a)anthracen	**2,200** J	**2,500** J		200 J	**290** J	170 J	200 J			224	7,800
Chrysene	2,300 J	2,700 J		230 J	360 J	230 J	260 J			50,000	780,000
bis(2-Ethylhexyl)ph	580 J	1,300 J		2,000 J	660 J	550 J	13,000			50,000	410,000
Di-n-octylphthalate					32 J					2,000,000	N/A
Benzo(b)fluoranthe	2,700	2,000 J			330 J	150 J	220 J			50,000	7,800
Benzo(k)fluoranthe	2,200 J	2,400 J			210 J	150 J	150 J			50,000	78,000
Benzo(a)pyrene	**2,700** J	**1,600** J			**190** J	**170** J	**180** J			61	780
Indeno(1,2,3-cd)pyr	1,500 J									50,000	7,800
TOTAL SVOCs	27,028	34,890		12,166	5,180	3,280	16,971			500,000	
TCL Pesticides/PCBs (ppb)			NA					NA	NA		
4,4'-DDE	11 J	23 J					15 J			2,100	17000
4,4'-DDD	26 J	41					22 J			2,900	24,000
4,4'-DDT	7 J	13 J					2 J			2,100	17,000
TOTAL PESTICIDE	44	77					39			10,000	
TOTAL PCBs										10,000	
TAL Metals (ppm)			NA					NA	NA		(ppm)
Aluminum	4,220	7,590		3,940	3,490	5,820	6,810				2,000,000
Arsenic		3		**10**	**13**		**36**				4
Barium	28	797		506	219	23	511				140,000
Cadmium		2		2	2		2				2,000**
Calcium	44,500	10,500		13,400	18,300	2,610	12,700				N/A
Chromium	15	39		29	39	18	33				6,100***
Cobalt	5	8		6	11	5	10				150,000
Copper	45	138		69	212	24	244				82,000
Iron	26,100	25,100		52,800	71,800	32,400	73,800				610,000
Lead	46	**1,160**		52	233	15	459				1,000
Magnesium	21,300	3,870		2,410	1,780	4,270	1,880				N/A
Manganese	228	250		361	408	175	625				290,000**
Nickel	16	37		34	57	27	55				41,000
Potassium	654	1,300		606	602	1,970	917				N/A
Selenium						8	26				10,000
Silver											10,000
Sodium	811	711		1,260	798	7,240	1,160				N/A
Vanadium	34	40		21	30	33	88				14,000
Zinc	76	546		593	346	73	663				610,000
Mercury		0		0	0	1	1				610
Cyanide, Total											41,000

B = Detected in blank sample NA = Not Analyzed
J = Estimated ND = Not Detected
BOLD = exceeds screening leve N/A = Not Available
* Due to the presence of methylene chloride and acetone in the blank samples, the reported concentrations of these compounds in the soil cover samples are considered to be attributable to laboratory contamination and are not included in the Total VOC values.

Only TAGM health-based criteria are listed. Where health-based criteria for individual SVOCs are not available under TAGM, the 50 ppm TAGM limit for individual SVOCs is used. In the absence of EPA Region III RBCT values for lead, mercury and zinc, Connecticut risk-based Remediation Standard Regulation values based on industrial/commercial direct contact exposures are used.

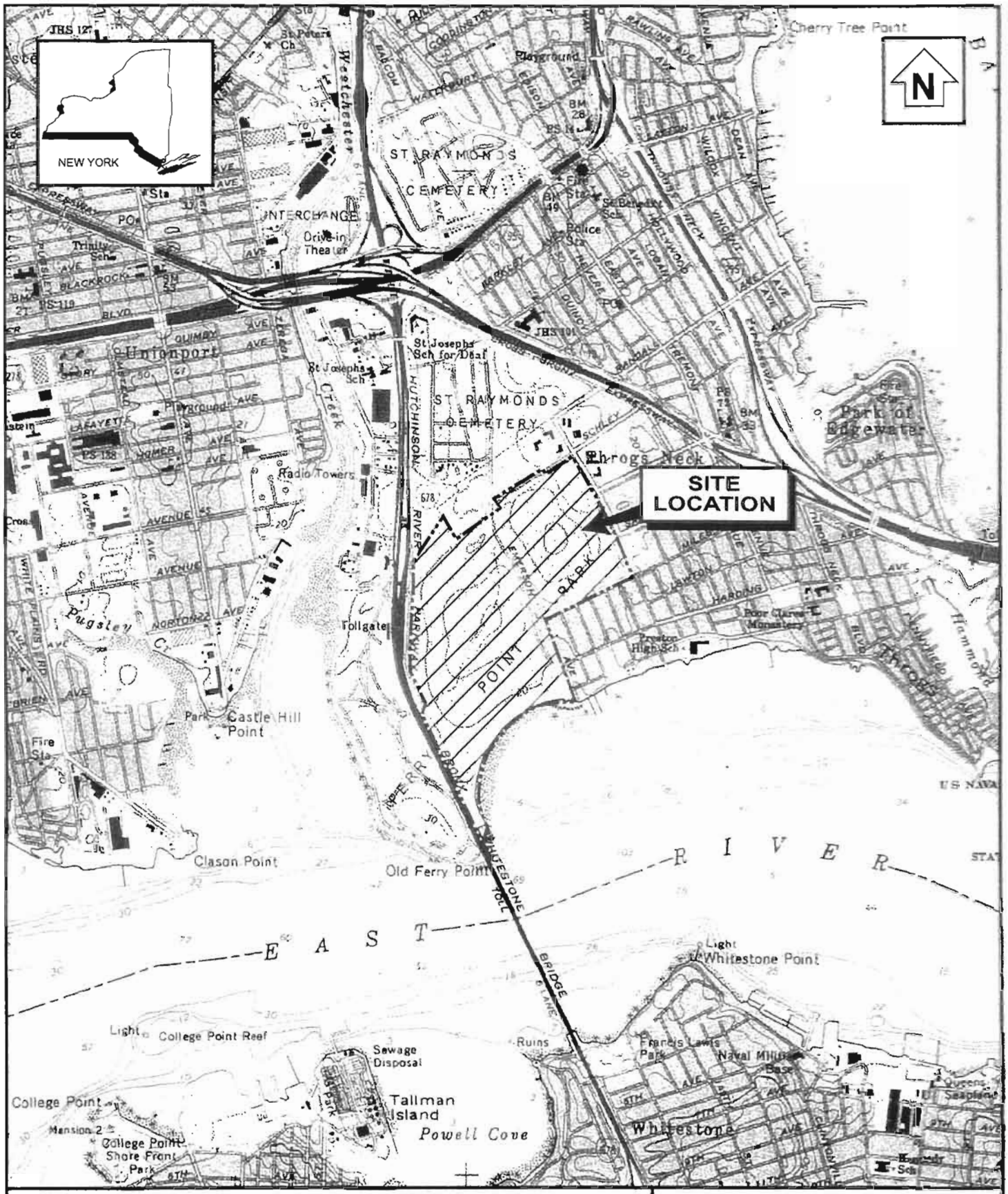

0 2000
SCALE FEET

0 1
SCALE MILE

1:24000

BASE CREATED WITH TOPO™ © 1996 WILDFLOWERS PRODUCTIONS, www.topo.com
FLUSHING, NY 7.5' USGS TOPOGRAPHIC MAP

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FERRY POINT PARK
BRONX, NEW YORK

FIGURE 1.
SITE LOCATION MAP

Date: 7/99 | **Project No.** 25800

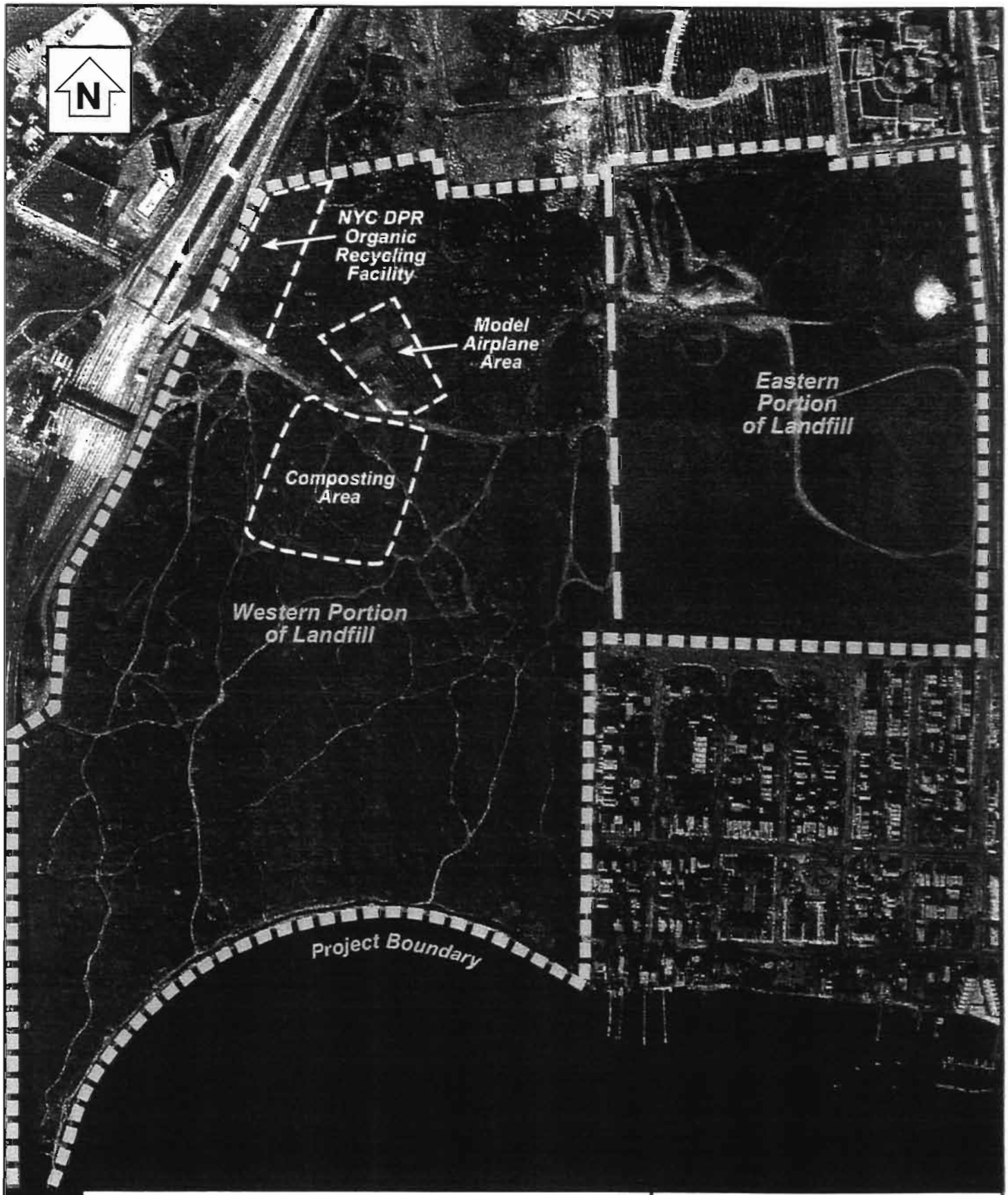

KEY

0 1000
APPROXIMATE SCALE FEET

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FERRY POINT PARK
BRONX, NEW YORK

FIGURE 2.
EXISTING CONDITIONS MAP
1991 BASE PHOTOGRAPH

Date: 7/99 **Project No.** 25800

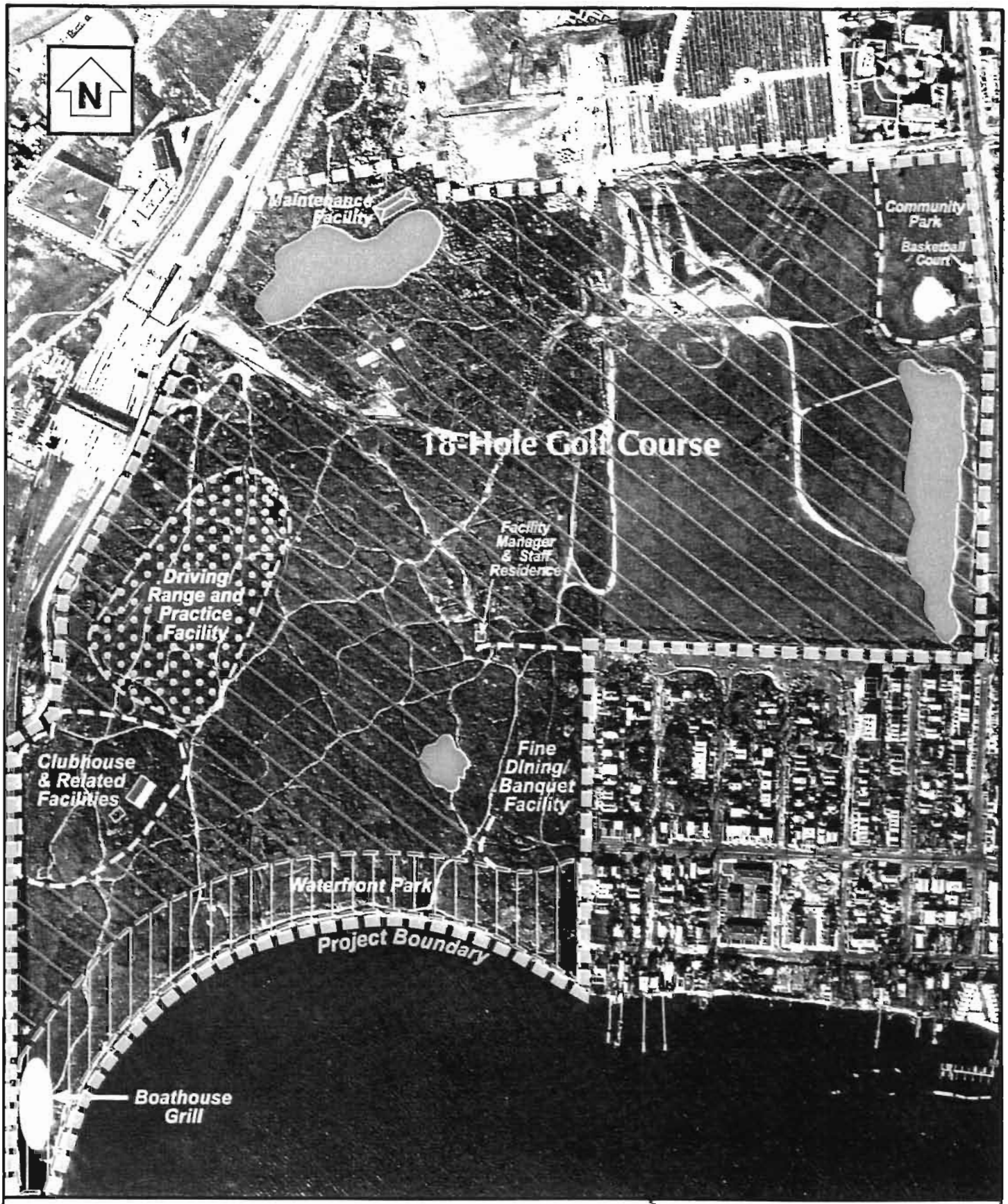

0 1000
APPROXIMATE SCALE FEET

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FERRY POINT PARK
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FIGURE 3.
PROPOSED GOLF COURSE FACILITIES

Date: 9/99 | Project No. 25800

PROPFEAT.FH8

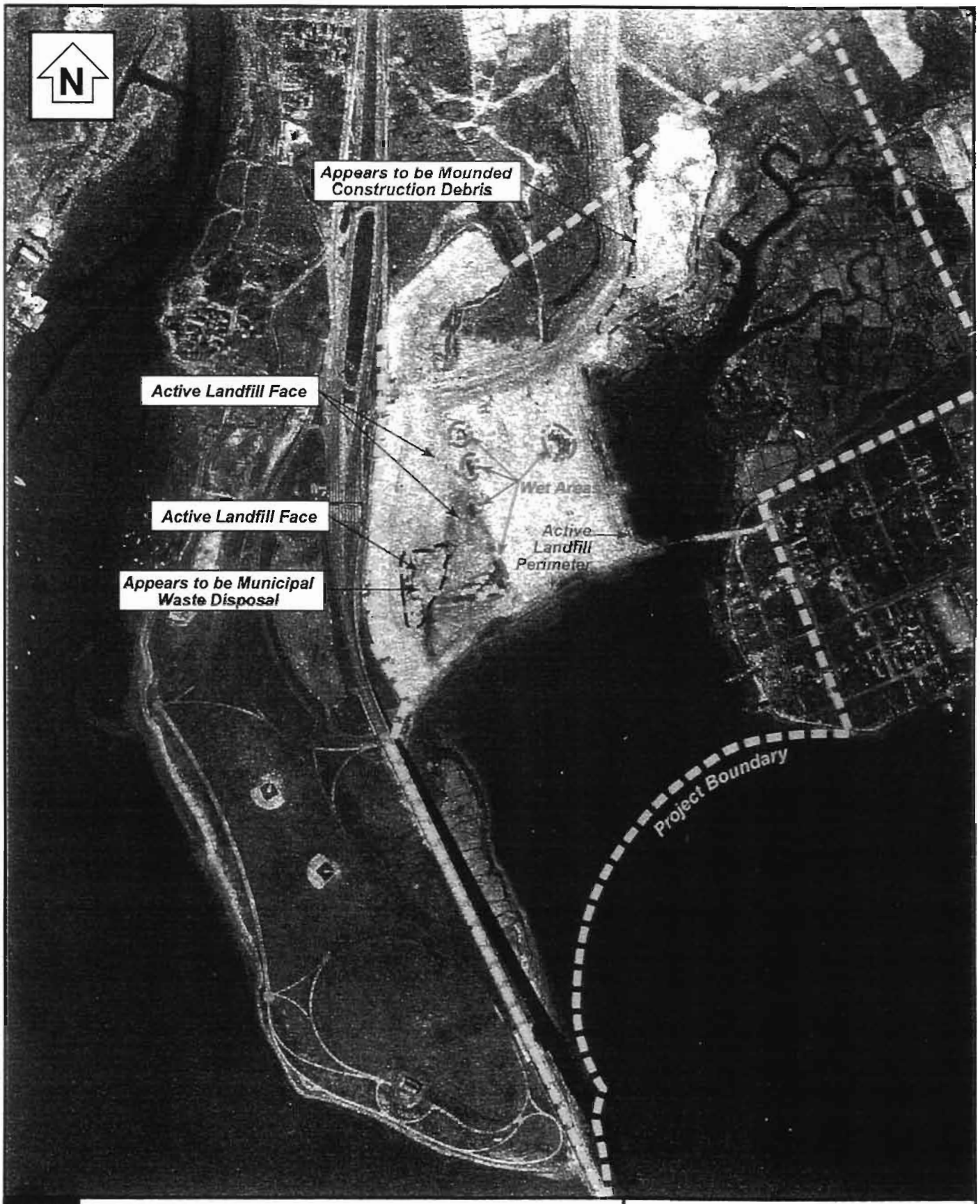

KEY

0 1000
APPROXIMATE SCALE FT

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FERRY POINT LANDFILL
BRONX, NEW YORK

FIGURE 4.
1951 AERIAL PHOTOGRAPH

Date: 7/99 | Project No. 25800

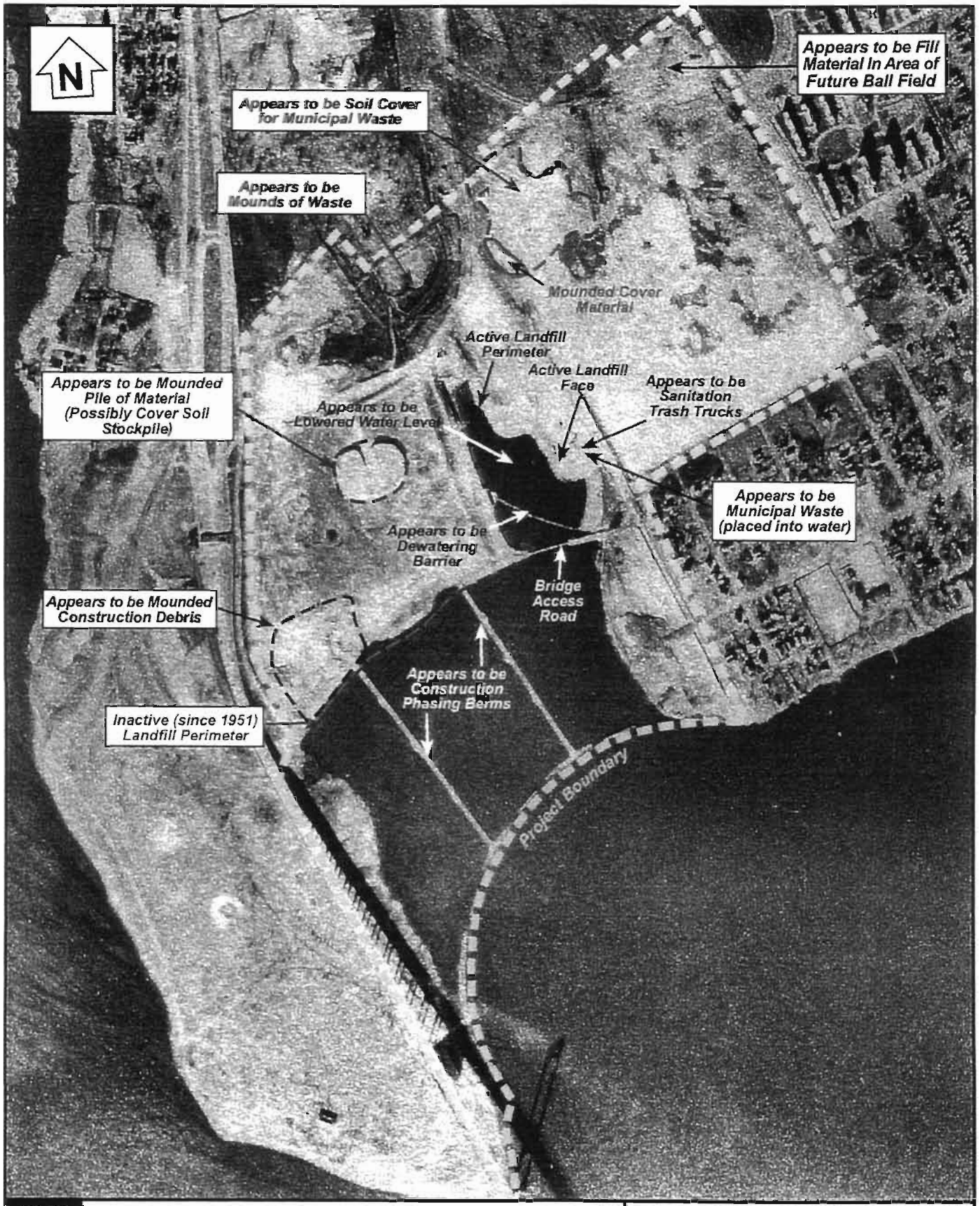

KEY

0 1000
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FERRY POINT LANDFILL
BRONX, NEW YORK

FIGURE 5.
1954 AERIAL PHOTOGRAPH

Date: 7/99 | Project No. 25800

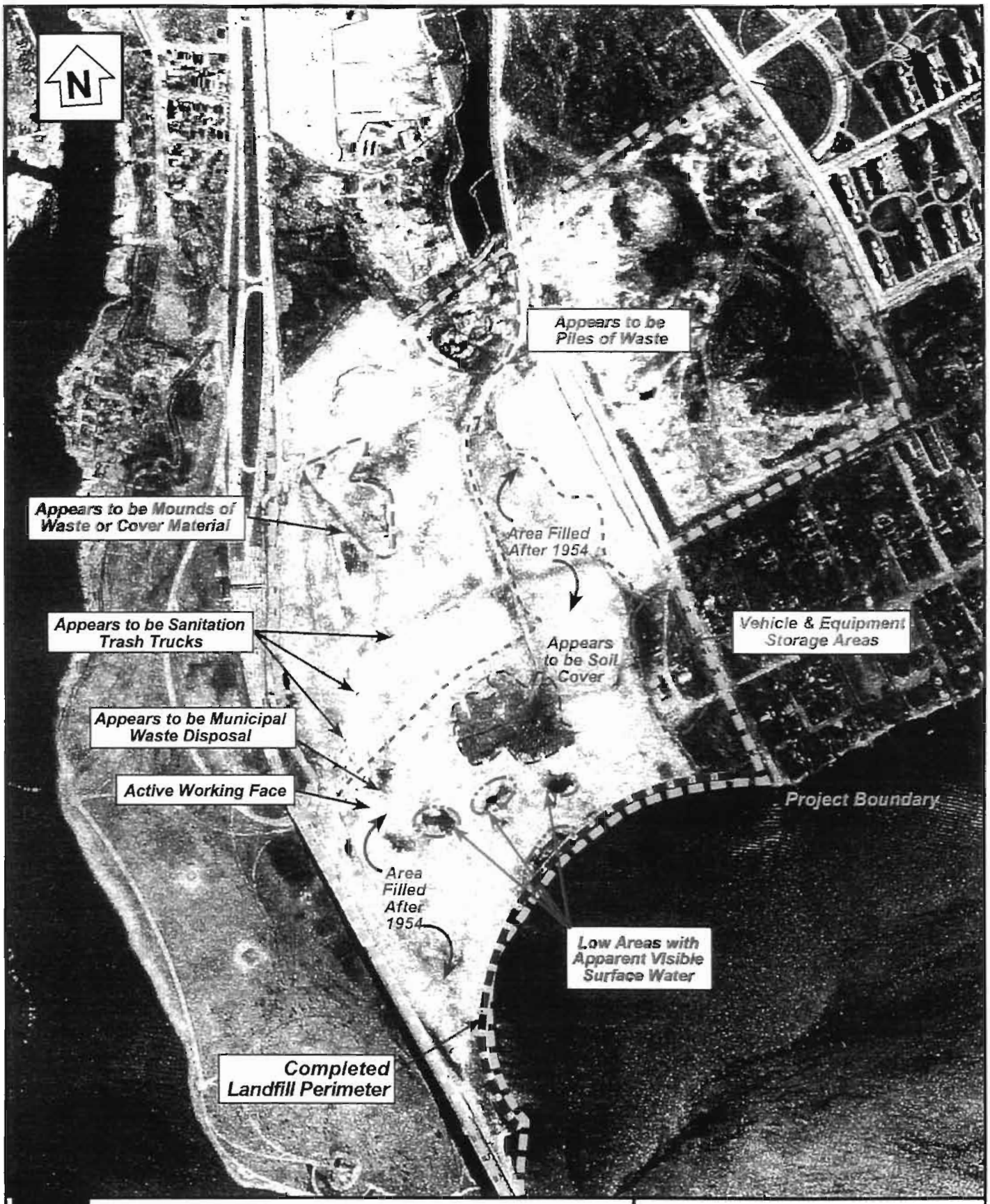

KEY

0 1000
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FERRY POINT LANDFILL
BRONX, NEW YORK

FIGURE 6.
1959 AERIAL PHOTOGRAPH

Date: 7/99 | Project No. 25800

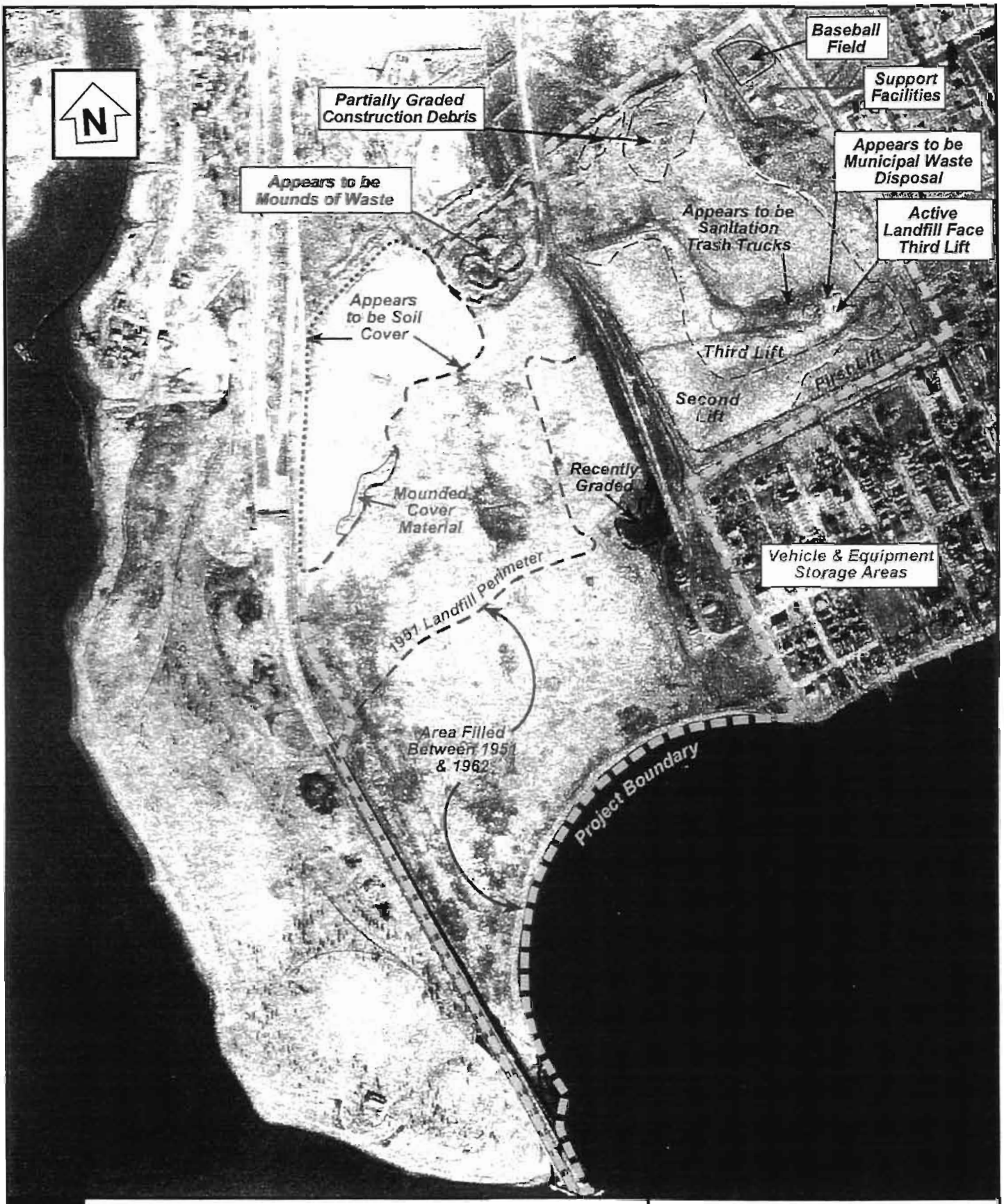

KEY

0 1000
APPROXIMATE SCALE FT

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FERRY POINT LANDFILL
BRONX, NEW YORK

FIGURE 7.
1962 AERIAL PHOTOGRAPH

Date: 7/99 | Project No. 25800

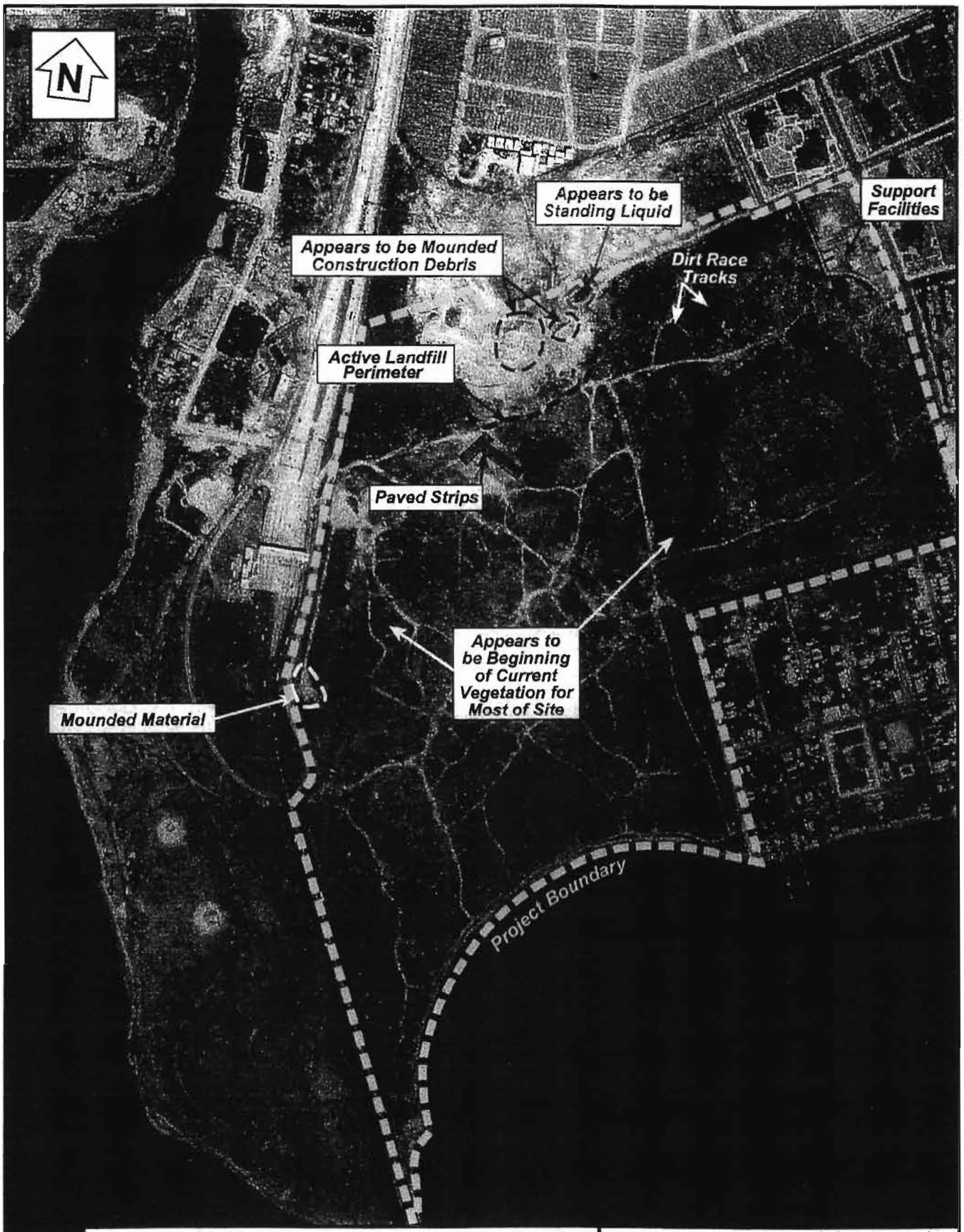

KEY

0 1000
APPROXIMATE SCALE FT

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FERRY POINT LANDFILL
BRONX, NEW YORK

FIGURE 8.
1982 AERIAL PHOTOGRAPH

Date: 7/99 | Project No. 25800

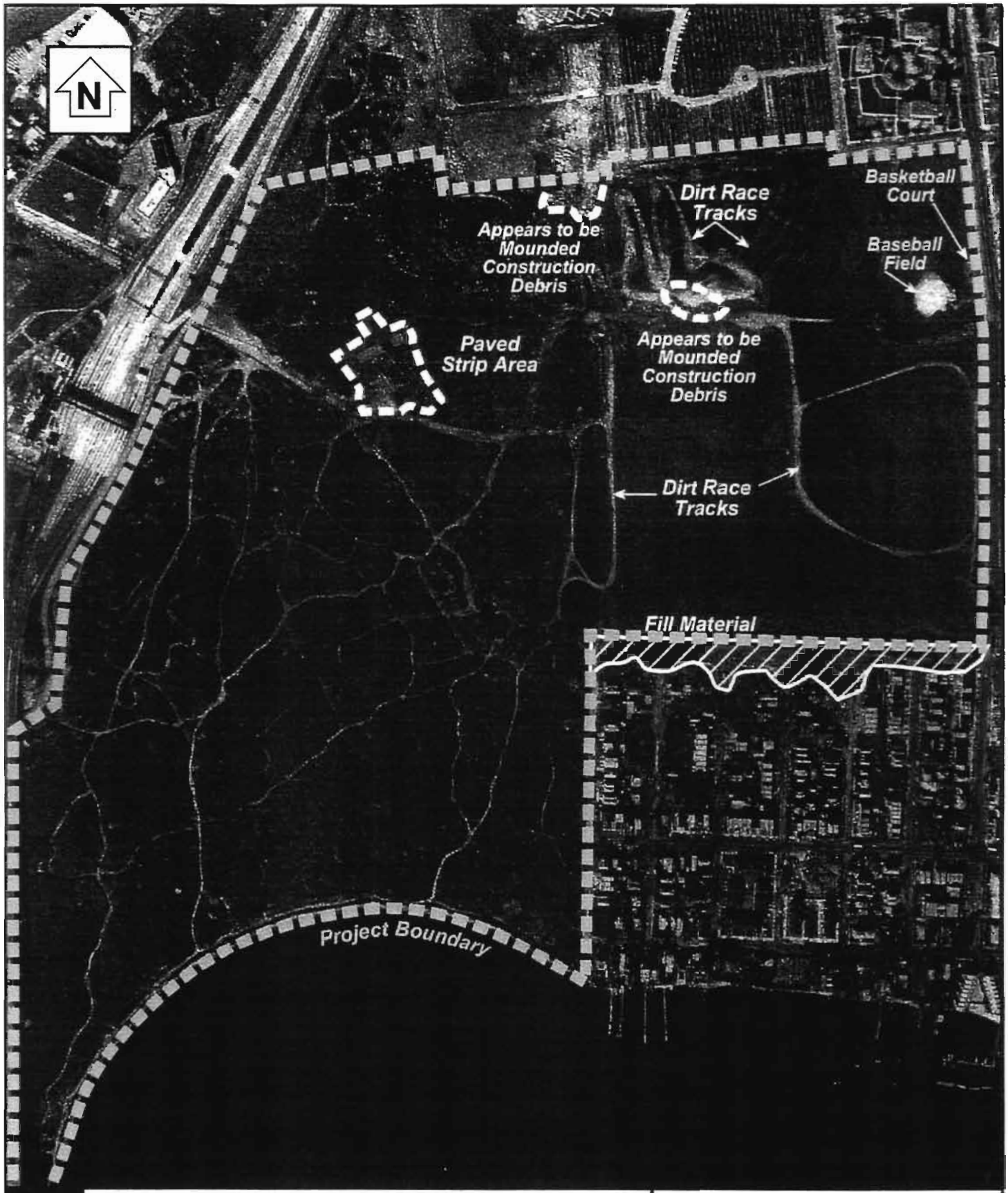

KEY

0 1000
APPROXIMATE SCALE FEET

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FERRY POINT PARK
BRONX, NEW YORK

FIGURE 9.
1991 AERIAL PHOTOGRAPH

Date: 7/99 | Project No. 25800

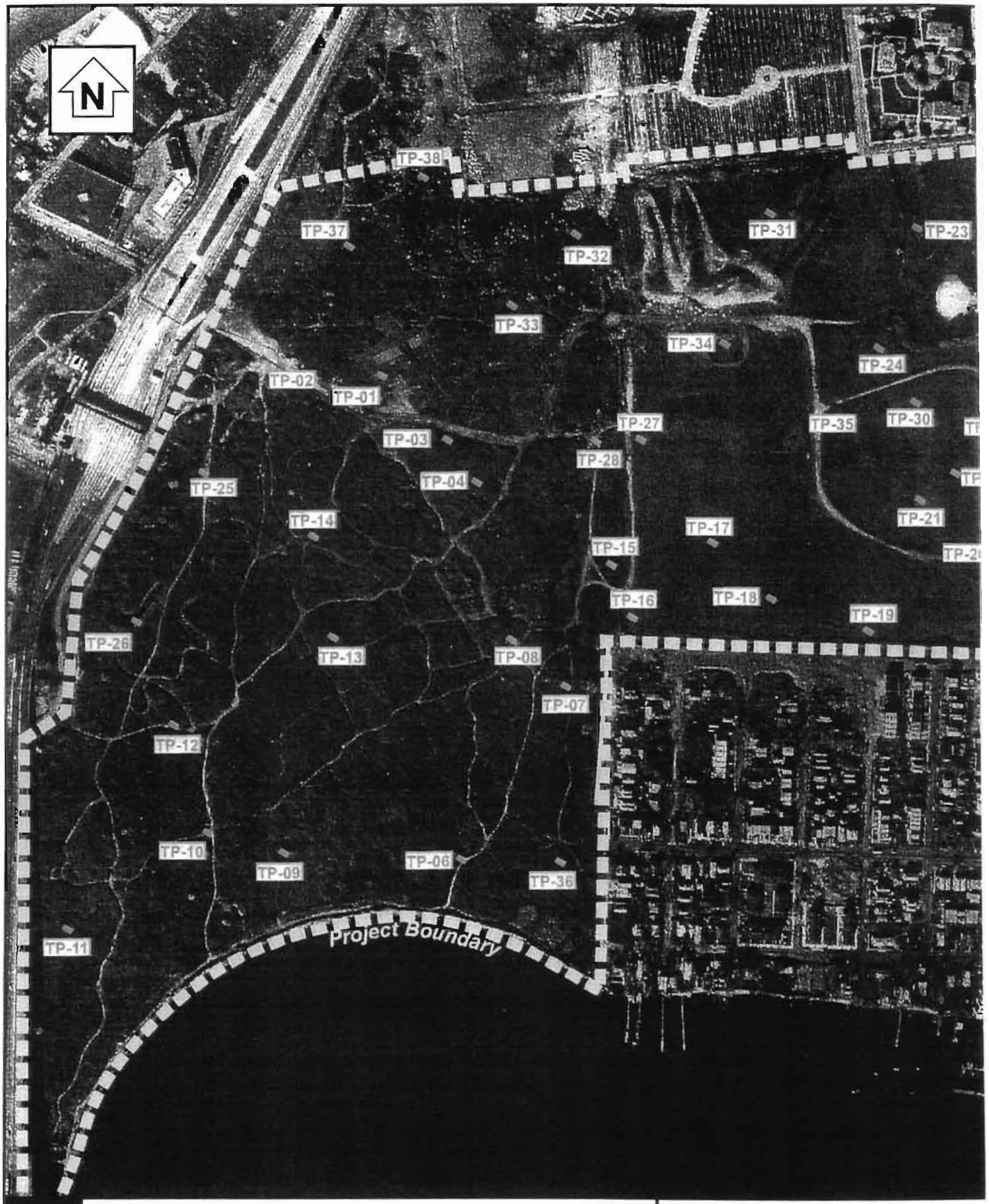

KEY

TP-36 Approximate Test Pit Location

0 400
APPROX. SCALE FT

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FERRY POINT PARK
BRONX, NEW YORK

FIGURE 10.

TEST PIT LOCATION MAP

Date: 7/99 | Project No. 25800

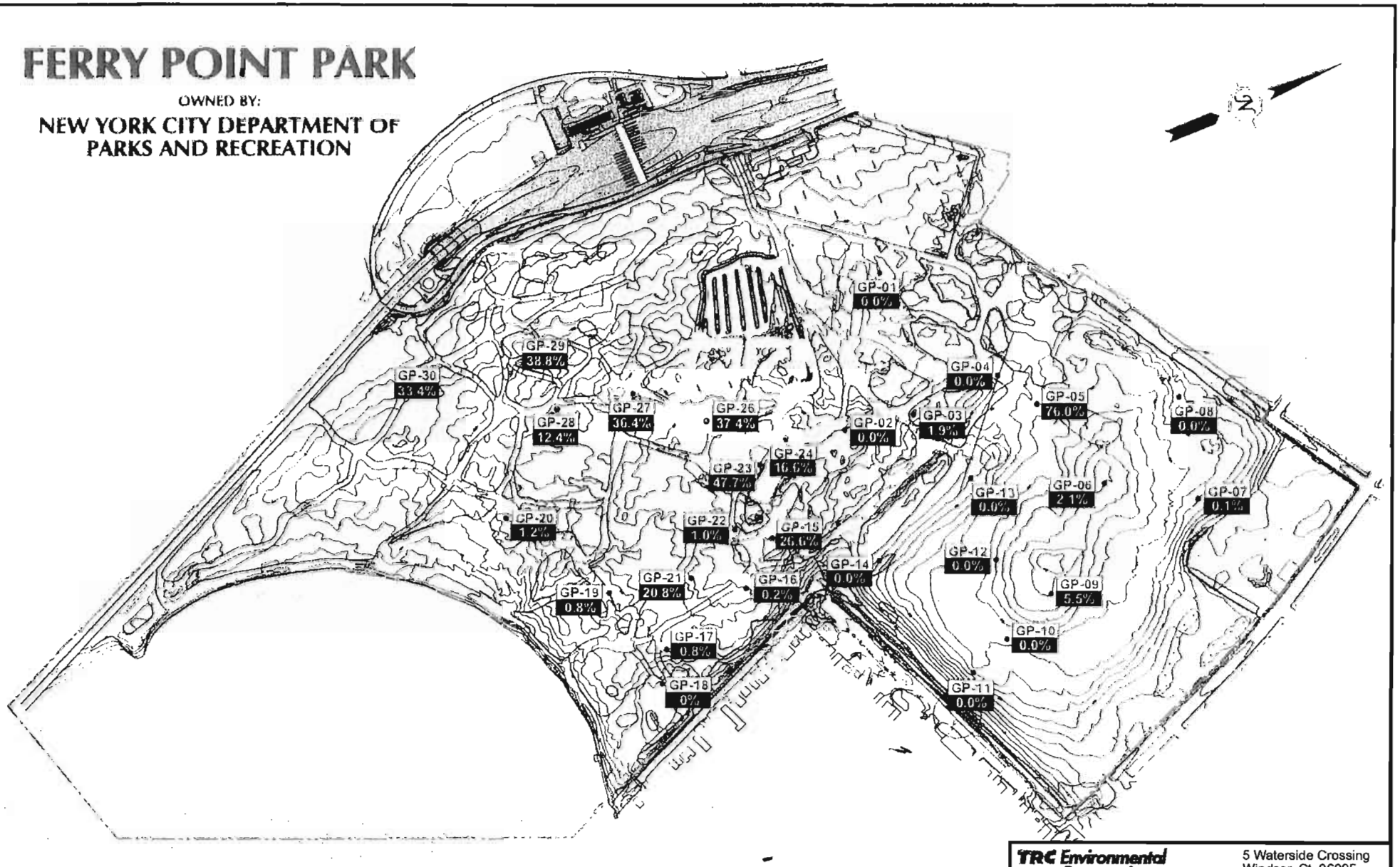

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FERRY POINT LANDFILL
BRONX, NEW YORK

FIGURE 11.
LANDFILL GAS ASSESSMENT MAP

Date: 7/99 | **Project No.** 25800

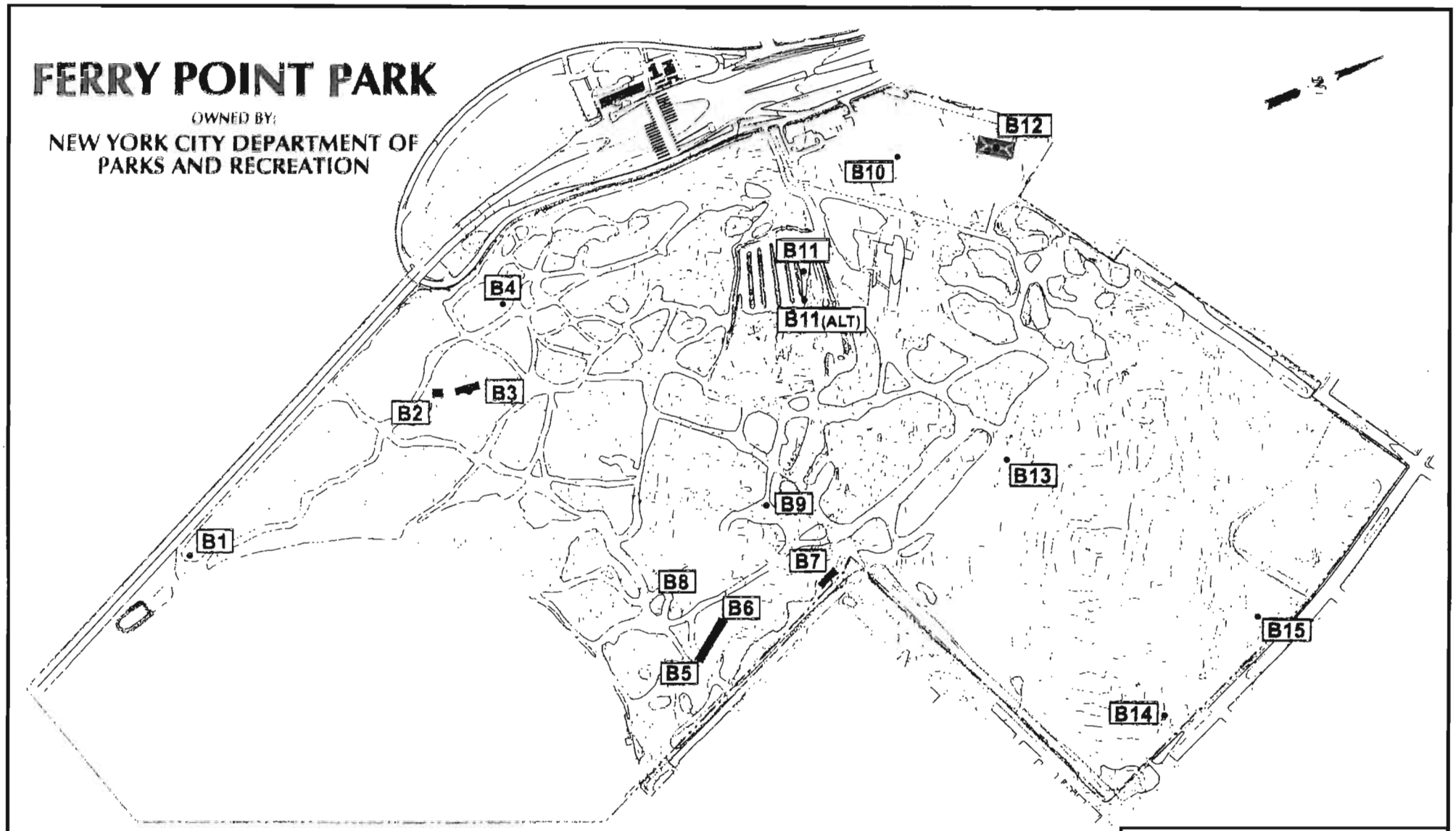

NOT TO SCALE

KEY

B5 • BORING /NUMBER

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FERRY POINT PARK
BRONX, NEW YORK

FIGURE 12.
LANDFILL SOIL BORING LOCATIONS

Date: 9/99 | Project No. 25800

SOILBORE.fh8

APPENDIX A

COMPARISON OF COVER AND WASTE DATA TO TAGM RECOMMENDED SOIL CLEANUP OBJECTIVES

TABLE 4A (Continued)
COMPARISON OF CONTAMINANTS DETECTED IN EXISTING COVER MATERIAL TO TAGM RSCOs
FERRY POINT PARK, BRONX, NEW YORK

Parameter	B2-Cover 0' - 2'	B7-2 - Cover 2' - 4'	B8-1-Cover 0' - 2'	B10-1-Cover 0' - 2'	B11-1-Cover 0' - 2'	B11-1 - Dup 0' - 2'	B13-1-Cover 0' - 2'	B14-2-Cover 2' - 4'	Field Blank	Trip Blank	TAGM RSCO (ppb)	
TCL Pesticides/PCBs (ppb)	ALL ND		ALL ND	ALL ND		ALL ND	ALL ND		NA	NA		
4,4'-DDE		32 J									2,100	
4,4'-DDD		26 J									2,900	
4,4'-DDT		22 J									2,100	
alpha-Chlordane								15 J			540	
gamma-Chlordane								15 J			540	
TOTAL PESTICIDES		80						30			10,000	
PCB Aroclor-1248					720							
TOTAL PCBs					720						1,000	
TAL Metals (ppm)									NA	NA	TAGM RSCO (ppm)	Eastern USA Background (ppm)
Aluminum	10,600	11,700	8,840	1,870	6,290	4,960	8,270	7,980			SB	33,000
Arsenic	1.78	**9.1**	1.49				3.09	2.01			7.5 or SB	3 - 12*
Barium	99.1	**901**	175	15.9	**319**	235	89.8	108			300 or SB	15 - 600
Cadmium		**16.7**	0.66			0.67					1 or SB	0.1 - 1
Calcium	1,270	29,200	37,000	79,400	32,100	36,200	5,500	6,660			SB	130 - 35,000*
Chromium	**43.8**	**76.5**	**22.4**	5.52	**19.5**	15.1	19.7	**18.6**			10 or SB	1.5 - 40*
Cobalt	12.1	14	9.46	2.17	7.6	5.52	6.21	6.68			30 or SB	2.5 - 60*
Copper	**34.4**	**1,340**	**189**	16.8	**100**	**48.6**	**28.9**	**37.8**			25 or SB	1 - 50
Iron	**16,800**	**176,000**	**21,500**	**6,140**	**24,400**	**27,000**	**14,300**	**15,600**			2,000 or SB	2,000 - 550,000
Lead	13.9	**927**	227	31.8	252	143	64.1	147			SB	200 - 500**
Magnesium	4,600	2,280	23,600	41,100	13,800	15,130	2,830	3,430			SB	100 - 5,000
Manganese	346	1,250	266	113	286	258	265	316			SB	50 - 5,000
Nickel	**70.3**	**126**	**31**	3.44	**22.8**	**19.3**	**22.2**	**22.3**			13 or SB	0.5 - 25
Potassium	2,490	1,270	1,120	677	1,660	1,350	996	881			SB	8,500 - 43,000*
Selenium	**4.71**	**51.5**					**2.71**	2.82			2 or SB	0.1 - 3.9
Silver		1.85									SB	N/A
Sodium		2,570	800	714	591	683	229	185			SB	6,000 - 8,000
Vanadium	34.1	90.6	25	18.3	27	27.4	22.3	29.4			150 or SB	1 - 300
Zinc	**58.3**	**2,370**	**921**	**28.4**	**193**	**226**	**107**	**135**			20 or SB	9 - 50
Mercury	**0.27**		**0.35**		**0.46**		**0.38**				0.1	0.001 - 0.2
Cyanide, Total		7.11										N/A

B = Detected in blank sample
J = Estimated
BOLD = TAGM criterion exceeded
NA = Not Analyzed
N/A = Not Available
ND = Not Detected
[ ] = Higher end of Eastern USA Background range exceeded
* = New York State background levels
** = Ave. background in metropolitan or suburban areas

TABLE 4A
COMPARISON OF CONTAMINANTS DETECTED IN EXISTING COVER MATERIAL TO TAGM RSCOs
FERRY POINT PARK, BRONX, NEW YORK

Parameter	B2-Cover 0' - 2'	B7-2 - Cover 2' - 4'	B8-1-Cover 0' - 2'	B10-1-Cover 0' - 2'	B11-1-Cover 0' - 2'	B11-1 - Dup 0' - 2'	B13-1-Cover 0' - 2'	B14-2-Cover 2' - 4'	Field Blank	Trip Blank	TAGM RSCO (ppb)
TCL VOCs (ppb)											
Methylene chloride	**500 B**	**900 B**	**470 B**	**480 B**	**490 B**	**550 B**	**360 B**	**400 B**	**430 B**	**480 B**	100
Acetone	**1,400 B**	**3,800 B**	**860 B**	**960 B**	**1,000 B**	**1,100 B**	**1,000 B**	**1,300 B**	**690 B**	**720 B**	200
Chloroform	200	200	32 J	39 J	35 J	30 J	130	130			300
2-Butanone		140 J						270			300
Benzene				50 J		31 J					60
Tetrachloroethene		650									1,400
Toluene	36 J	46 J		92 J	47 J	59 J	63 J	37 J			1,500
Chlorobenzene						72 J					1,700
Ethylbenzene				40 J	26 J	43 J					5,500
Xylene (total)		24 J		290 J	50 J	68 J		18 J			1,200
TOTAL VOCs*	236	1,060	32	511	158	303	193	455			
TCL SVOCs (ppb)									NA	NA	
2-Methylphenol			110 J								100 or MDL
4-Methylphenol				68 J							900
Isophorone								140 J			4,400
Naphthalene		74 J	2,200 J	780 J	960 J	350 J	340 J	120 J			13,000
4-Chloro-3-methylphenol								15 J			240 or MDL
2-Methylnaphthalene		29 J	330 J	390 J	140 J	120 J	360 J	85 J			36,400
2-Chloronaphthalene				69 J							50,000
Dimethylphthalate								110 J			2,000
Acenaphthylene				2,000 J			44 J	20 J			41,000
Acenaphthene		6 J	160 J	330 J	92 J	94 J	110 J	110 J			50,000
4-Nitrophenol								**140 J**			100 or MDL
Dibenzofuran			76 J	700 J	42 J	47 J	87 J	100 J			6,200
Diethylphthalate		29 J		150 J				110 J			7,100
Fluorene			900 J	1,100 J			230 J	150 J			50,000
Pentachlorophenol				230 J				35 J			1,000 or MDL
Phenanthrene	29 J	38 J	1,600 J	4,500 J	960 J	970 J	1,700	1,600			50,000
Anthracene	7 J		390 J	1,400 J	190 J	230 J	440 J	370 J			50,000
Di-n-butylphthalate	31 J	76 J	130 J	180 J			41 J	51 J			8,100
Fluoranthene	61 J	63 J	2,600 J	9,700	1,300 J	1,700 J	2,200	1,900			50,000
Pyrene	78 J	99 J	2,800 J	9,100	1,600 J	2,100 J	2,200	2,700			50,000
Butylbenzylphthalate		840				190 J	65 J	60 J			50,000
Benzo(a)anthracene	50 J	71 J	**1,400 J**	**4,600 J**	**800 J**	**1,000 J**	**1,100**	**1,000**			224 or MDL
Chrysene	47 J	65 J	**1,500 J**	**4,800 J**	**950 J**	**1,300 J**	**1,100**	**980**			400
bis(2-Ethylhexyl)phthalate	37 J	590 J	270 J	490 J	1,200 J	1,300 J	300 J	160 J			50,000
Di-n-octylphthalate				130 J							50,000
Benzo(b)fluoranthene	46 J		**1,200 J**	**4,800 J**	540 J	990 J	820	1,000			1,100
Benzo(k)fluoranthene	25 J	39 J	**1,400 J**	**5,100 J**	660 J	**1,200 J**	740	850			1,100
Benzo(a)pyrene			**1,300 J**	**4,900 J**	**760 J**	**1,100 J**	**890**	**920**			61 or MDL
Indeno(1,2,3-cd)pyrene				3,200 J			680 J	1,100			3,200
Dibenz(a,h)anthracene				**820 J**			**260 J**				14 or MDL
Benzo(g,h,i)perylene				3,000 J			630 J	1,200			50,000
TOTAL SVOCs	411	2019	18,366	62,537	10,194	12,691	14,337	15,026			500,000

B = Detected in blank sample
J = Estimated
BOLD = criterion exceeded
NA = Not Analyzed
N/A = Not Available
ND = Not Detected
Where health-based criteria for individual SVOCs are not available under TAGM, the 50 ppm TAGM limit for individual SVOCs is used.

* Due to the presence of methylene chloride and acetone in the blank samples, the reported concentrations of these compounds in the soil cover samples are considered to be attributable to laboratory contamination and are not included in the Total VOC values

TABLE 6A
COMPARISON OF CONTAMINANTS DETECTED IN WASTE MATERIALS TO TAGM RSCOs
FERRY POINT PARK, BRONX, NEW YORK

Parameter	B1-3 4' - 6'	B2-2 4' - 6'	B3-6 8' - 10'	B4-6 10' - 12'	B5-6 10' - 12'	B6-9 16' - 18'	B7-6 10' - 12'	B8-7 12' - 14'	B9-6 10' - 12'	TAGM RSCO (ppb)	Eastern USA Background (ppm)
TCL VOCs (ppb)											
Vinyl chloride									74 J	200	N/A
Methylene chloride	720 B	2,100 B	920 B	850 B	470 B	600 B	1,000 B	750 B	560 B	100	N/A
Acetone	3,100 B	7,900 B	3,500 B	3,600 B	1,600 B	1,800 B	4,200 B	1,800 B	1,600 B	200	N/A
1,2-Dichloroethylene (total)			370	75 J						300	N/A
Chloroform	110	270	130	150	170	120	190	41 J	120	300	N/A
2-Butanone			190 J	780	350	130 J	180 J		370	300	N/A
Trichloroethylene			230	49 J				44 J		700	N/A
Benzene	36 J	96 J	70 J	300		110	77 J	76 J	67 J	60	N/A
Tetrachloroethene			640			60 J		66 J	29 J	1,400	N/A
Toluene	41 J	140	170	1,200	970	130	150	200	140	1,500	N/A
Chlorobenzene		300	300	460			410	800		1,700	N/A
Ethylbenzene			55 J	180	1,400	110	58 J	220	42 J	5,500	N/A
Styrene					250					N/A	N/A
Xylene (total)		83 J	210	650	2,900	200	190	330	130	1,200	N/A
TOTAL VOCS*	187	889	2,365	3,844	6,040	860	1,255	1,777	972	10,000	N/A
TCL SVOCs (ppb)		NA									
2-Chlorophenol			20 J							800	N/A
1,4-Dichlorobenzene	160 J									8,500	N/A
1,2-Dichlorobenzene						50 J				7,900	N/A
4-Methylphenol	14 J		30 J	82 J			20 J	290 J	22 J	900	N/A
2,4-Dimethylphenol	11 J									N/A	N/A
Naphthalene	700 J		210 J	430 J	250,000	230 J	210 J	1,300 J	180 J	13,000	N/A
4-Chloro-3-methylphenol			24 J	9 J						240 or MDL	N/A
2-Methylnaphthalene	140 J		140 J	140 J	250,000	120 J	92 J	580 J	120 J	36,400	N/A
Acenaphthylene			10 J	31 J	11,000 J	20 J	16 J		21 J	41,000	N/A
Acenaphthene	68 J		160 J	140 J	63,000 J	94 J	150 J	440 J	120 J	50,000	N/A
Dibenzofuran	47 J		97 J	110 J	60,000 J	47 J	60 J	290 J	83 J	6,200	N/A
Diethylphthalate	27 J		26 J	11 J		42 J		370 J	28 J	7,100	N/A
Fluorene	63 J		200 J	230 J	160,000	70 J		760 J	190 J	50,000	N/A
N-nitrosodiphenylamine								300 J		N/A	N/A
Pentachlorophenol			42 J							1,000 or MDL	N/A
Phenanthrene	170 J		1,100	1,300	550,000	450 J	960 J	4,000 J	1,400	50,000	N/A
Anthracene	30 J		260 J	230 J	120,000	110 J	280 J	910 J	300 J	50,000	N/A
Di-n-butylphthalate	66 J		130 J	46 J		130 J	66 J	1,100 J	120 J	8,100	N/A
Fluoranthene	360 J		1,300	1,300	220,000	520 J	1,400	4,400 J	2,000	50,000	N/A
Pyrene	170 J		1,200	1,500	620,000	760 J	1,900	4,500 J	3,000	50,000	N/A
Butylbenzylphthalate	18 J		130 J					1,400 J		50,000	N/A
Benzo(a)anthracene	70 J		570 J	690 J	130,000	260 J	630 J	2,000 J	1,200	224 or MDL	N/A
Chrysene	88 J		620 J	790 J	120,000	270 J	580 J	2,000 J	1,300	400	N/A
bis(2-Ethylhexyl)phthalate	200 J		20,000	1,900		310 J	12,000	24,000	440 J	50,000	N/A
Di-n-octylphthalate			48 J	18 J				660 J		50,000	N/A
Benzo(b)fluoranthene	53 J		420 J	530 J	68,000 J	240 J	470 J	1,500 J	1,100	1,100	N/A
Benzo(k)fluoranthene	50 J		400 J	520 J	69,000 J	180 J	490 J	1,500 J	1,100	1,100	N/A
Benzo(a)pyrene	55 J		450 J	590 J	92,000 J	260 J	340 J	1,200 J	1,000	61 or MDL	N/A
Indeno(1,2,3-cd)pyrene			360 J	410 J					1,000	3,200	N/A
Benzo(g,h,i)perylene				380 J						50,000	N/A
TOTAL SVOCs	2,560		27,947	11,387	2,783,000	4,163	19,664	53,500	14,724	500,000	N/A
TCL Pesticides/PCBs (ppb)		NA	ALL ND								N/A
4,4'-DDE				20 J			11 J	88		2,100	N/A
4,4'-DDD				37 J			67	360		2,900	N/A
4,4'-DDT				35 J			17 J	53		2,100	N/A
TOTAL PESTICIDES				92			95	501		10,000	N/A
PCB Aroclor-1242	870										N/A
PCB Aroclor-1260						18,000					N/A
TOTAL PCBs										10,000	N/A
TAL Metals (ppm)		NA								(ppm)	(ppm)
Aluminum	6,390		10,600	6,590	6,670	7,740	8,210	7,580	7,470	SB	33,000
Arsenic			6.16	16.3	8.12				3.08	7.5 or SB	3 - 12*
Barium	173		334	261	768	1,020	105	854	135	300 or SB	15 - 600
Cadmium	1.59		1.77	3.03		9.45		3.63	0.853	1 or SB	0.1 - 1
Calcium	5,440		36,000	22,700	13,800	37,200	4,110	45,800	18,700	SB	130 - 35,000*
Chromium	71.6		37.5	23.7	15.6	67.8	29.7	82	25	10 or SB	1.5 - 40*
Cobalt	9.03		10.3	5.95	6.15	18.6	8.53	10.5	7.87	30 or SB	2.5 - 60*
Copper	2,620		205	67.8	89.4	970	40.7	266	90.2	25 or SB	1 - 50
Iron	29,600		43,500	17,200	16,500	216,000	26,800	79,700	28,800	2,000 or SB	2,000 - 550,000
Lead	448		673	289	287	1,200	85.1	1,030	461	SB	200 - 500**
Magnesium	3,010		21,600	3,200	2,940	2,850	3,360	5,900	3,290	SB	100 - 5,000
Manganese	597		434	169	151	1,200	418	655	314	SB	50 - 5,000
Nickel	49.4		52.3	23.5	23.1	156	32.2	109	32.3	13 or SB	0.5 - 25
Potassium	1,440		3,160	2,110	1,060	1,020	1,750	830	1,080	SB	8,500 - 43,000*
Selenium	5.35		2.22	12.5	4.09	37	6.69		2.45	2 or SB	0.1 - 3.9
Silver						19		12.5		SB	N/A
Sodium	611		607	947	537	2,590	333	1,800	484	SB	6,000 - 8,000
Vanadium	33.2		41.3	20.1	22.9	78.3	30	55.2	40.4	150 or SB	1 - 300
Zinc	568		462	375	189	1,880	98.3	1,350	367	20 or SB	9 - 50
Mercury			0.55	0.49		0.56	0.64	0.52	0.28	0.1	0.001 - 0.2
Cyanide, Total						2.65					N/A

* = Detected in blank sample
: Estimated
BOLD = exceeds screening level
[ ] = Higher end of Eastern USA Background range exceeded

NA = Not Analyzed
ND = Not Detected
N/A = Not Available

Where health-based criteria for individual SVOCs are not available under TAGM, the 50 ppm TAGM limit for individual SVOCs is used.
* = New York State background levels
** = Ave. background in metropolitan or suburban areas

* Due to the presence of methylene chloride and acetone in the blank samples, the reported concentrations of these compounds in the soil cover samples are considered to be attributable to laboratory contamination and are not included in the Total VOC values.

TABLE 6A (Continued)
COMPARISON OF CONTAMINANTS DETECTED IN WASTE MATERIALS TO TAGM RSCOs
FERRY POINT PARK, BRONX, NEW YORK

	B10-3 4' - 6'	B11-6 10' - 12'	B12-4 6' - 8'	B12-10+11 18' - 22'	B13-10 20' - 22'	B14-8 12' - 14'	B15-7 12' - 14'	Field Blank	Trip Blank	TAGM RSCO (ppb)	Eastern USA Background (ppm)
TCL VOCs (ppb)				NA							
Vinyl chloride										200	N/A
Methylene chloride	**450** B	**560** B	**400** B		**600** B	**950** B	**500** B	**430** B	**480** B	100	N/A
Acetone	**930** B	**1,400** B	**960** B		**1,800** B	**3,400** B	**2,100** B	**690** B	**720** B	200	N/A
1,2-Dichloroethylene (total)										300	N/A
Chloroform	32 J	31 J	29 J		150	**350**	170			300	N/A
2-Butanone					**320**	140 J	**1,000**			300	N/A
Trichloroethylene										700	N/A
Benzene	29 J	31 J			45 J	**70** J				60	N/A
Tetrachloroethene										1,400	N/A
Toluene	69 J	86 J	33 J		99 J	130	140			1,500	N/A
Chlorobenzene		130			40 J	500				1,700	N/A
Ethylbenzene	27 J				71 J					5,500	N/A
Styrene	25 J									N/A	N/A
Xylene (total)	85 J	48 J	26 J		290	200	250			1,200	N/A
TOTAL VOCS	267	326	88		1,015	1,390	1,560			10,000	N/A
TCL SVOCs (ppb)			NA					NA	NA		
4-Methylphenol		280 J			16 J	46 J	100 J			900	N/A
Naphthalene	270 J	2,200		6,400 J	170 J	290 J	1,400			13,000	N/A
2-Methylnaphthalene	88 J	330 J		1,400 J	110 J	120 J	230 J			36,400	N/A
Acenaphthylene	870 J				17 J	14 J	22 J			41,000	N/A
Acenaphthene	120 J	750 J		100 J	92 J	36 J	50 J			50,000	N/A
Dibenzofuran	160 J	340 J		51 J	75 J	30 J	31 J			6,200	N/A
Diethylphthalate					28 J	32 J				7,100	N/A
Fluorene	300 J	900 J			170 J	54 J	69 J			50,000	N/A
Phenanthrene	1,500 J	5,100 J		480 J	770 J	300 J	270 J			50,000	N/A
Anthracene	490 J	1,300 J		95 J	130 J	48 J				50,000	N/A
Di-n-butylphthalate	150 J			220 J	350 J	130 J	89 J			8,100	N/A
Fluoranthene	4,200 J	5,400 J		480 J	560 J	330 J	250 J			50,000	N/A
Pyrene	4,700 J	5,600 J		510 J	620 J	430 J	450 J			50,000	N/A
Butylbenzylphthalate		190 J								50,000	N/A
Benzo(a)anthracene	**2,200** J	**2,500** J		200 J	**290** J	170 J	200 J			224 or MDL	N/A
Chrysene	**2,300** J	**2,700** J		230 J	360 J	230 J	260 J			400	N/A
bis(2-Ethylhexyl)phthalate	580 J	1,300 J		2,000 J	660 J	550 J	13,000			50,000	N/A
Di-n-octylphthalate					32 J					50,000	N/A
Benzo(b)fluoranthene	**2,700**	**2,000** J			330 J	150 J	220 J			1,100	N/A
Benzo(k)fluoranthene	**2,200** J	**2,400** J			210 J	150 J	150 J			1,100	N/A
Benzo(a)pyrene	**2,700** J	**1,600** J			**190** J	**170** J	**180** J			61 or MDL	N/A
Indeno(1,2,3-cd)pyrene	1,500 J									3,200	N/A
TOTAL SVOCs	27,028	34,890		12,166	5,180	3,280	16,971			500,000	N/A
TCL Pesticides/PCBs (ppb)			NA					NA	NA		
4,4'-DDE	11 J	23 J					15 J			2,100	N/A
4,4'-DDD	26 J	41					22 J			2,900	N/A
4,4'-DDT	7.1 J	13 J					2.4 J			2,100	N/A
TOTAL PESTICIDES	44.1	77					39.4			10,000	N/A
TOTAL PCBs										10,000	N/A
TAL Metals (ppm)			NA					NA	NA	(ppm)	(ppm)
Aluminum	4,220	7,590		3,940	3,490	5,820	6,810			SB	33,000
Arsenic		3.36		**10.2**	**12.7**		**35.6**			7.5 or SB	3 - 12*
Barium	27.8	**797**		**506**	219	22.7	**511**			300 or SB	15 - 600
Cadmium		**1.87**		**1.72**	**2.02**		**2.43**			1 or SB	0.1 - 1
Calcium	44,500	10,500		13,400	18,300	2,610	12,700			SB	130 - 35,000*
Chromium	**15**	**39.3**		**29.3**	**39**	**18.1**	**32.9**			10 or SB	1.5 - 40*
Cobalt	4.81	7.87		5.71	11	4.88	10.2			30 or SB	2.5 - 60*
Copper	**44.5**	**138**		**68.6**	**212**	24	**244**			25 or SB	1 - 50
Iron	**26,100**	**25,100**		**52,800**	**71,800**	**32,400**	**73,800**			2,000 or SB	2,000 - 550,000
Lead	46.1	**1,160**		52.1	233	14.8	459			SB	200 - 500**
Magnesium	21,300	3,870		2,410	1,780	4,270	1,880			SB	100 - 5,000
Manganese	228	250		361	408	175	625			SB	50 - 5,000
Nickel	**16.2**	**36.5**		**34.3**	**56.8**	**27**	**55**			13 or SB	0.5 - 25
Potassium	654	1,300		606	602	1,970	917			SB	8,500 - 43,000*
Selenium						**7.64**	**26.4**			2 or SB	0.1 - 3.9
Silver										SB	N/A
Sodium	811	711		1,260	798	7,240	1,160			SB	6,000 - 8,000
Vanadium	33.8	40.3		20.5	29.5	32.5	88.1			150 or SB	1 - 300
Zinc	**75.8**	**546**		**593**	**346**	**72.6**	**663**			20 or SB	9 - 50
Mercury		**0.48**		**0.35**	**0.35**	**0.52**	**0.86**			0.1	0.001 - 0.2
Cyanide, Total											N/A

B = Detected in blank sample
J = Estimated
BOLD = exceeds screening level
[ ] = Higher end of Eastern USA Background range exceeded
NA = Not Analyzed
ND = Not Detected
N/A = Not Available

Where health-based criteria for individual SVOCs are not available under TAGM, the 50 ppm TAGM limit for individual SVOCs is used.
* = New York State background levels
** = Ave. background in metropolitan or suburban areas

* Due to the presence of methylene chloride and acetone in the blank samples, the reported concentrations of these compounds in the soil cover samples are considered to be attributable to laboratory contamination and are not included in the Total VOC values.

APPENDIX B

SAMPLE HEALTH AND SAFETY PLAN OUTLINE

SAMPLE HEALTH AND SAFETY PLAN OUTLINE
CONSTRUCTION, OPERATION AND MAINTENANCE ACTIVITIES
FERRY POINT PARK, BRONX, NEW YORK

1.0 Introduction
- 1.1 Objectives and Applicability
- 1.2 General Site Description

2.0 Health and Safety Personnel
- 2.1 Organizational Structure
- 2.2 Key Personnel/Responsibilities
  - 2.2.1 Health and Safety Director/Manager
  - 2.2.2 Project Manager[1]
  - 2.2.3 Field Operations Manager[1]
  - 2.2.4 On-Site Health and Safety Coordinator[1]
  - 2.2.5 On-Site Health and Safety Coordinator - Alternates[1]
  - 2.2.6 Subcontractors

3.0 Task/Operation Safety and Health Risk Analysis
- 3.1 Historic Overview of Site
- 3.2 Task-by-Task Safety and Health Risk Analysis
- 3.3 Hazard Communications Plan

4.0 Medical Surveillance and Training Requirements
- 4.1 Medical Surveillance
  - 4.1.1 Baseline or Pre-Assignment Monitoring
  - 4.1.2 Periodic Monitoring
  - 4.1.3 Site-Specific Medical Monitoring
- 4.2 Training
  - 4.2.1 OSHA-Required Training
  - 4.2.2 Site-Specific Training

5.0 Site Control Measures
- 5.1 Site Communications Plan
- 5.2 Work Zone Definition
- 5.3 Nearest Medical Assistance
- 5.4 Safe Work Practices
- 5.5 Confined Space Entry
- 5.6 Emergency Alarm Procedures

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[1] Likely to be applicable only to the construction component of the Health and Safety Plan

6.0 Personal Protective Equipment
- 6.1 Overview of Levels of Protection
- 6.2 Personal Protective Equipment during Construction
  - 6.2.1 Equipment Overview
  - 6.2.2 Monitoring Requirements
  - 6.2.3 Action Levels

7.0 Task-Specific Health and Safety Procedures
- 7.1 General
  - 7.1.1 Chemical and Physical Hazards
  - 7.1.2 Monitoring
  - 7.1.3 Action Levels
  - 7.1.4 Personal Protective Equipment
  - 7.1.5 Decontamination
- 7.2 Subsurface Construction Activities
  - 7.2.1 Chemical and Physical Hazards
  - 7.2.2 Monitoring
  - 7.2.3 Action Levels
  - 7.2.4 Remedial Measures
  - 7.2.5 Personal Protective Equipment
  - 7.2.6 Exclusion Zone
  - 7.2.7 Decontamination
- 7.3 Landfill Gas Monitoring
  - 7.3.1 Monitoring Mechanisms
  - 7.3.2 Monitoring Procedures
  - 7.3.3 Action Levels
  - 7.3.4 Remedial Measures
- 7.4 Confined Space Entry
  - 7.4.1 Chemical and Physical Hazards
  - 7.4.2 Procedure for Confined Space Entry
  - 7.4.3 Confined Space Observer

8.0 Emergency Response/Contingency Plan
- 8.1 Pre-Emergency Planning
- 8.2 Personnel Roles and Lines of Authority
- 8.3 Emergency Recognition and Prevention
- 8.4 Evacuation Routes and Procedures
- 8.5 Site Security and Control
- 8.6 Emergency Contact/Notification System
- 8.7 Emergency Medical Treatment Procedures
- 8.8 Fire or Explosion Response Procedures
- 8.9 Spill or Leak Response Procedures
- 8.10 Personal Protective Equipment and Emergency Equipment

APPENDIX C

METHANE GENERATION AND PRELIMINARY VENTILATION RATE CALCULATIONS

Ferry Point Park
Bronx, NY

Goal: Determination of the maximum thickness of refuse at the landfill site during the soil boring program conducted in June 1999.

Well ID	Top of Refuse feet bgs	Bottom of Refuse feet bgs	Refuse Thickness feet
B-1	3	6	3
B-2	3	14	11
B-3	3	14	11
B-4	3	14	11
B-5	3	12	9
B-6	7	19	12
B-7	3	14	11
B-8	3	16	13
B-9	3	40	37
B-10	3	18	15
B-11	3	10	7
B-11 (Alt)	5	30	25
B-12	3	22	19
B-13	3	26	23
B-14	4	18	14
B-15	8	22	14
Maximum Refuse Thickness			37

Calculation for Met' e Generation Rate

Ferry Point Park
Bronx, NY

		Comment
Given: Q(CH4) = Lo x R x (e^(-kc) - e^(-kt))		see reference 1
Where:		
Q(CH4) = the methane generation rate at time,t in cu. meters per year per square meter of landfill =		from above calculation
Lo = the methane generation potential of the refuse, in cu. meter of CH4 per megagram of refuse =	125	see reference 2
R = the average annual refuse acceptance rate during active life in megagrams per year per square meter of landfill =	0.6744976	see aux. calculation 1 below
e = base log, unitless	2.7182818	
k = the methane generation rate constant in year^-1	0.04	see reference 2
c = the time since landfill closure in years =	37	landfill closure in 1962
t = the time since initial refuse placement in years =	47	landfill began accepting refuse in 1952
Q(CH4) =	6.33 m^3/yr/m^2 of landfill	
Q(CH4) =	0.00004 ft^3/min/ft^2 of landfill	

References:

1) Air Emissions From Municipal Solid Waste Landfills - Background Information For Proposed Standards and Guidelines. Office of Air quality Planning and Standards, U.S. EPA Research Triangle Park, North Carolina, EPQ-450/3-90-011a. Chapters 3 and 4. March 1991
2) Compilation of Air Pollutant Emission Factors - Volume I: Stationary Point and Area Sources - AP-42 Fifth Edition. Section 2.4 Office of Air quality Planning and Standards, U.S. EPA Research Triangle Park, North Carolina, January 1995.

Auxiliary Calculations

1) Calculation for R

In order to produce the most conservative methane generation rate value (the highest methane generation rate), the largest amount of refuse will be used in the calculation. This will be determined using the maximum refuse thickness found during soil boring at the site.

		Comment
Given		
R = Th (refuse, max) x rho(refuse) * 0.3048 x 0.0006/t2		
Where:		
R = the average annual refuse acceptance rate during active life in megagrams per year per square meter of landfill =	-----	calculated below
Th (refuse, max) = the maximum thickness of refuse within the landfill in feet =	37	see attached spreadsheet
rho (refuse) = the density of the refuse in pounds per cubic yard =	1000	
0.3048 = conversion factor to convert from feet to meters =	0.3048	
0.0017 = conversion factor to convert value from pounds per cubic yard to megagrams per cubic meter =	0.0006	.00045 Mg/lb x cubic yard per .076 cubic meter
t2 = total time for refuse placement in years	10.0000	duration of landfill operation
R =	0.67 Mg /m^2/yr	

APPENDIX D

IRRIGATION/INFILTRATION MEMORANDUM

JWE ENGINEERING AND ENVIRONMENTAL SERVICES, LLC

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MEMORANDUM

Date: September 9, 1999

Memo To: Steve Rosen *Fax No:* 212-213-3191

CC: Steve Kass 212-732-3232
Pierre Gagne
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Bob Smith 860-298-6399

Memo From: **W. Charles Utschig, Jr. P.E.**

Project No.: 1147

Reference: Ferry Point Park
Water Balance Analysis

The following is a simplified response to the question from the NYCDEP relating to the potential increase in surface water contributing to the groundwater and on this site as a result of the proposed development.

There will be two new influences on the ground water on this site because of the proposed development. The first is the impact the new impervious areas will have on the amount of water reaching the ground water through percolation. The development of this site will produce approximately 26 acres of impervious area, approximately 13.5% of the overall site. Runoff from these areas will be directed to detention facilities where it will be detained and discharged through a closed drainage system either into the Cities combined sewer system or directly to the River. The collection and handling of the runoff from all impervious areas produces a reduction in runoff percolating into the groundwater. This reduction is proportionate to the amount of impervious area being created and produces a reduction in the amount of surface water filtering through the landfill material and into the groundwater.

The second component is the irrigation system. The introduction of irrigation water onto the site could potentially influence the water balance and have an affect on the amount of water percolating into the groundwater. However, "the state of the art" technology utilized in the design and construction of the

irrigation system allows the Golf Course Superintendent to monitor the water needs of the grass and apply only that which is actually required. By applying only the required amount of water, the root structure of the grass absorbs the water with no measurable additional percolation through the root structure into the groundwater. The Golf course Superintendent uses a weather station to determine the water needs of the grass. Using this information and a prescription watering technique, that allows control over each individual sprinkler head, the Superintendent is able to apply only the required amount of water need to sustain the growth of turf grass, with no measurable excess water beyond the root zone. The amount of water used to irrigate the golf course is estimated to be approximately 0.18 inches per day based on a typical summer day demand. In unusual circumstances where an unanticipated rainfall follows soon after irrigation, the additional soil layer added to the existing landfill cover layer would be adequate to prevent any significant increase in groundwater/leachate flows, even without taking credit for the reduced surface runoff described above.

In conclusion, through the use of a highly sophisticated irrigation system and the control of runoff from new impervious areas, it can be concluded that the there should be no significant increase in runoff filtering through the developed site and into the ground water.

NEW YORK CITY WATERFRONT REVITALIZATION PROGRAM

CONSISTENCY ASSESSMENT FORM

Proposed actions subject to CEQR, ULURP, State or Federal Agency Actions that are situated within the designated boundaries of New York City's Coastal Zone must be accessed for their consistency with the City's Local Waterfront Revitalization Program (LWRP). New York City's LWRP was adopted as a 197-a Plan in coordination with local, State, and Federal laws and regulations, including the State's Coastal Management Program (Executive Law, Article 42) and the Federal Coastal Zone Management Act of 1972 (P.L. 92-583). This form is intended to assist an applicant in certifying that the proposed activity is consistent with the local Waterfront Revitalization Program. It should be completed at the time when the local or state application is prepared. The Department of City Planning will use the completed form and accompanying information in its review of the applicant's certification of consistency. Answering "yes" to a question in section C does not necessarily mean an inconsistency exists but rather is intended to alert the applicant and reviewer that additional information is required.

A. APPLICANT

1. Name: New York City Department of Parks & Recreation Contact Person: Jane Cleaver
(please print)

2. Address: The Arsenal, Central Park, New York, New York 10021

3. Telephone: Area Code (212) 360-3401

4. Owner: New York City Department of Parks & Recreation

B. PROPOSED ACTIVITY

1. Brief description of activity: Currently undeveloped parkland would be developed as a golf course and public park with restaurants and parking.

2. Purpose of activity: To provide recreational opportunities and a waterfront park

3. Location of activity:

Bronx
County

The eastern portion of Ferry Point Park, bounded by the Bronx-Whitestone Bridge to the west, Balcom Avenue to the east, Schley Avenue to the north, and the East River to the south.
Street or Site Description

4. Type of local or state action required: Uniform Land Use Review Procedure (ULURP)

5. If a federal or state permit/license was issued or is required for the proposed activity, identify the agency and provide the application or permit number, if known: No federal or state permits are required.

6. Is federal or state funding being used to finance the project? If so, please identify the funding source.

No federal or state funds are being used.

C. COASTAL ASSESSMENT The following checklist represents in a broad sense, the 44 State Coastal Zone Management Program policies and 12 City LWRP policies. (The numbers and letters in parentheses after each question indicated the policy or policies that are the focus of the question.) A listing and detailed explanation of the Waterfront Revitalization Program policies titled New York City Waterfront Revitalization Program Manual can be obtained from the Department of City Planning Book Store located at 22 Reade Street, Manhattan, (212) 720-3667. Figures listed after various questions can be found in Section 3K of the Manual and are simplified, for information concerning detailed maps please contact the Department of City Planning, Waterfront and Open Space Division, (212) 720-3620.

Check either "Yes" or "No" for each of the following questions.

		YES	NO
1.	Is the site(s) that would be affected by the action located in or near any significant coastal fish and wildlife habitats? (7) (see Figure 3K-2)		✔
2.	Would the action involve any activity in or near a tidal or freshwater wetland? (44) (see Figure 3K-3)	✔	
3.	Would the action result in any activities within a Federally designated flood hazard area and/or State-designated erosion hazard area? (11, 12, 17, C, D, E) (see Figure 3K-4)	✔	
4.	Would the action involve construction or reconstruction of a flood or erosion control structure? (13, 14, 16, 17, C, D, E)		✔
5.	Would the action involve any new or increased activity on or near any beach, dune, barrier island, or bluff? (12, G)		✔
6.	Would the action involve mining, dredging, or dredge disposal, or placement of dredged or fill materials in coastal waters? (15, 35, B)		✔
7.	Would the action result in any of the following:		
	- Shipping, handling, or storing of solid wastes, hazardous materials, or other pollutants;		✔
	- Development of a site that may contain contamination or has a history of underground fuel tanks, oil spills, etc.;	✔	
	- Construction activities that could lead to erosion . (8, 36, 37, 38, 39)		✔
8.	Would the action result in the discharge of toxins, hazardous substances, or other pollutants, effluent, or waste into any waters? (8, 30, 31, 34, 37, 38, 40)		✔
9.	Would the action result in the draining of storm water runoff or sewer overflows into coastal waters? (8, 32, 33)		✔
10.	Would the project in any way affect the water quality classification of nearby waters or be unable to be consistent with that classification? (31) (see Figure 3K-5)		✔
11.	Would the action cause violations of the National or State air quality standards? (41, 42)		✔
12.	Would the action result in significant amounts of acid rain precursors (nitrates and sulfates)? (43)		✔
13.	Would the action have any effect on commercial or recreational use of fish resources? (9, 10)		✔
14.	Would the action have any effects on surface water or groundwater supplies? (38)		✔
15.	Would the action result in a reduction of existing or required access to or along coastal waters, public access areas, public parks or open spaces? (19, 20, 21, F)		✔
		YES	NO
16.	Would the action result in any development along the shoreline but NOT include new water-enhanced or water-dependent recreation space? (21, 22)		✔
17.	Would the action result in new open space that is not accessible to immobile (handicapped) user groups? (F)		✔
18.	Would the action result in the provision of open space without the provision for its maintenance? (H)		✔

19.	Would the action affect natural or built resources that contribute to the scenic quality of a coastal area? (25)		✔
20.	Does this site currently include elements that degrade the area's scenic quality or block views to he water? (25)		✔
21.	Would the proposed action have a significant adverse impact on historic or archaeological resources? (23)		✔
22.	Would the action be located in an important maritime and industrial area as shown in the New York City Comprehensive Waterfront Plan? (see Figure 3K-6)		✔
	Some of these areas may include portions of the following locations: - Kill Van Kull in Staten Island from Howland Hook to Snug Harbor; - Brooklyn waterfront at Red Hook and Sunset Park (from Pier 6 to Owls Head); - Brooklyn Navy Yard: - Newtown Creek; and - South Bronx (Port Morris and Hunts Point). (2, 3)		✔
23.	Would the action be located in a small harbor area (any area with a unique maritime identity; for example, Sheepshead Bay or City Island)? (4)		✔
24.	Would the action involve the siting or construction of a facility essential to the generation or transmission of energy, or a natural gas facility, or would it develop new energy resources? (27, 29, I)		✔
25.	Would the action involve ice management practices? (28)		
26.	Would the action affect any sites that have been used as landfills? (J, L)	✔	
27.	Is illegal dumping occurring on a site that would be affected by the action? (K)		✔
28.	Would the action affect solid waste management goals and objectives? (L)		✔
29.	Is the site of the action a deteriorated or underutilized waterfront site? (1, A)	✔	
30.	Does the site of the action include any waterfront structures (e.g., piers, docks, bulkheads, wharves, or erosion protection devices)? (A)	✔	
31.	Would the action result in a change in scale or character of a neighborhood? (1)		✔
32.	If the action would affect a site located on the waterfront, would it facilitate the siting of a use that is NOT water-dependent? (2)		✔
		YES	NO
33.	Would the proposed action require provision of new public services or infrastructure in an undeveloped or sparsely populated section of the coastal area? (5, 6)		✔
34.	Would the action result in a physical alteration to a site along the waterfront, including land along the shoreline, land underwater, or coastal waters? (2, 11, 12, 18, 20-22, 25, 28, 32, 35, 37, 38, 41, 43, 44, A-E)	✔	

D. ADDITIONAL STEPS

If any of the questions in Section C are answered "Yes", then the applicant or agent is advised to consult the local Waterfront Revitalization Program document, available at the Department of City Planning Book Store. The proposed activity must be analyzed in more detail with respect to the applicable state or local coastal policies. On a separate page(s), the applicant or agent shall: (a) identify, by policy numbers, which coastal policies are affected by the activity, (b) briefly assess the effects of the activity upon the policy; and (c) state how the activity is consistent with each policy. Following the completion of this written assessment, the applicant or agency shall complete Section E and submit the documentation required by Section F.

E. CERTIFICATION

The applicant or agent must certify that the information provided is truthful and that the proposed activity is consistent with the New York City Waterfront Revitalization Program or the State Coastal Management Program, as appropriate. If this certification cannot be made, the proposed activity shall not be undertaken as proposed and the applicant should contact the Waterfront and Open Space Division for further instructions. If the certification can be made, complete this Section.

"The proposed activity complies with New York State's approved Coastal Management Program, or with the applicable New York City Waterfront Revitalization Program, and will be conducted in a manner consistent with such program."

Applicant/Agent's Signature: _____ Date: _____

F. SUBMISSION REQUIREMENTS

1. The applicant or agent shall submit the following documents to the New York City Department of City Planning, Waterfront and open space Division, 22 Reade Street, 6W, New York, NY, 10007.

   a. Original signed Waterfront Revitalization Program Assessment Form.
   b. Copy of the completed ULURP, CEQR, or State Permit Application. (If applicable)
   c. Other available information which would support the certification of consistency.

2. If there are any questions regarding the completion or submission of this form, contact the Department of City Planning, Waterfront and Open Space Division at (212) 720-3620.

ADDITIONAL INFORMATION FOR THE COASTAL ZONE CONSISTENCY DETERMINATION

New York City Department of Parks and Recreation (DPR) plans to issue a license to Ferry Point Partners, LLC, for a major concession. Ferry Point Partners would develop the currently unused eastern portion of Ferry Point Park into a golf course and public waterfront park. Ferry Point Partners would be responsible for the development, construction, operation, management and maintenance of the golf course, park and all appurtenance facilities. The golf course would occupy the majority of the interior of the site with a community park fronting onto Balcom Avenue. A 300-foot wide swath along the East River would be used as the public waterfront park. This park would be physically connected with the existing Ferry Point Park on the west side of the Bronx-Whitestone Bridge.

The following narrative discusses all questions in the Consistency Assessment Form that were answered with a yes in order. Then public access is discussed.

POLICIES 44, 11, 12, 17, C, D, E

The waterfront is currently protected with a rip rap slope that is generally in good functional condition. Where necessary, the slope would be repaired in-kind to assure its long term stability and functionality. A small portion along the waters' edge of the site is within the 100-year flood plain. No structures would be built in this area. The restaurants and other buildings would be located in areas outside of the 100-year flood plain.

POLICIES 8, 36, 37, 38, 39, J, L, K

Evidence indicates that the land was built out into the water using municipal waste and construction debris. The soil is being sampled, and a detailed discussion of the findings is in Attachment G. Over the whole site with the exception of the proposed lakes, a layer of clean soil would be placed over the current soils. This layer would prevent accidental human contact with the underlying soils. In the lakes, an impervious layer would be placed to hold the water. This layer would also prevent human contact with the existing soils. The materials that are removed to form the lakes would be used to contour the land in the golf course. Any waste materials excavated would be disposed of off-site in accordance with applicable rules and regulations. The development of the golf course and park with their attendant uses would stop the illegal dumping that currently occurs on the site.

POLICIES 1, A

The site is currently vacant, except for the organic recycling/composting facility, an informal model airplane facility, and some active recreation facilities. The proposed public recreation facility would bring park activities and users to the area. The deteriorated (but functioning) waterfront rip rap slope would be rebuilt and repaired. The waterfront itself would be used as the park.

POLICIES 19, 20, 21, 22, F

Access would be through the current roadway system that is used for the developed portion of Ferry Point Park on the west side of the Bronx-Whitestone Bridge. Because of its proximity to major roadways in the area, with the exception of the community park, the proposed recreation facility would be primarily a regional park. Vehicles, pedestrians, and bicycles would be able to access the golf course, the waterfront park, the boathouse grill restaurant, and the fine dining/banquet facility via the I-678 service road which goes under the Bronx Whitestone Bridge. Vehicular parking and bike racks would be provided at various locations on-site. To provide security, the public recreational facilities would be fenced, and the single access point would allow monitoring of the park and golf course. The new eastern waterfront park would be connected with the existing western portion

of the Ferry Point Park, providing easy circulation between both facilities and providing a continuous waterfront walkway. Access for emergency vehicles will be provided via Emerson Avenue (see Figure A-2, "Site Plan," in Attachment A, "Project Description").

1.0 INTRODUCTION

The project will utilize the existing sewer water and drainage systems adjacent to and through the project site to service the proposed golf course, parks, restaurant catering facility and other secondary uses. It will consume energy in the form of electricity and natural gas and will generate solid waste. This attachment identifies the existing services available in the area, outlines the demands created by this project and concludes with a description of the project designed to produce no adverse impacts on the existing infrastructure or adjacent users.

2.0 WATER SUPPLY

2.1 Existing Conditions:

Water mains exist around the perimeter of this site. There is an existing 12-inch water main that runs along the east side of the service road. A 12-inch water mains also runs along the west side of Emerson Avenue, the south side of Miles Avenue and the west side of Balcom Avenue. Hydrants are spaced along these roads at intervals of approximately 250 feet. Fire flow tests were run on the 12-inch main in the south side of Miles Avenue between Emerson Avenue and Robinson Avenue and on the 12-inch main in the east side of the Hutchinson River Parkway between Randall Avenue and Philip Avenue. The test results indicate a flow of 500 gallons per minute (gpm) is available with a static pressure of approximately 42 pounds per square inch (psi) and a residual pressure of 41 psi.

2.2 Proposed Conditions - Demand.

The estimated average daily demand on the water system created by this project is estimated as follows:

Irrigation System		500,000 gpd
Golf Club	216 people x 25 gpd	5,400 gpd
Catering Facility	1000 seats x 20 gpd	20,000 gpd
Waterfront Park	500 people x 5 gallons per person (gpp)	2,500 gpd
Maintenance Facility	30 people x 25 gpd	4,166 gpd
Boathouse Grill	1200 patrons x 20 gpp	15,000 gpd
Average Daily Domestic Demand		**51,066 gpd**
Average Daily Irrigation Demand		**500,000 gpd**
Total Average Daily Demand		**551,066 gpd**

The peak daily demand would be the irrigation flows at 500,000 gpd plus the domestic flows peak at a factor of four, 204,264 gpd, for a total peak daily demand of 704,264 gpd. Because there are no facilities planned at this time in the community park, there will be no impact on the domestic water demand.

The average hourly supply, drawn from the City system to satisfy the average daily demand calculated above is shown in the table below. The average hourly supply is based on a supply duration of 10 hours for a 24-hour period.

Irrigation supply	500,000/10 hours	833 gpm
Domestic supply	51,066/10 hours	85 gpm
Average Hourly supply		**920 gpm**

The peak hourly demand using the same supply times and peaking factors outlined above would be approximately 1200 gpm.

Based on the fire flow test results which produced a flow rate of 500 gpm with only 1 psi drop in pressure, the average daily demand will drop the available pressure in the City system by less than 2 psi and the peak hourly demand will reduce pressures by less than 3 psi. Both of these pressure drops are negligible and should not adversely affect the available water supply or pressure in the area.

In addition, these calculations are very conservative in that the supply to the irrigation system will occur between 8 PM and 6 AM—a time that is off peak compared to the demands of other components of this project (predicted to occur from 6 AM to 12 AM) but also off peak from the existing demand in the City system. The peak in this residential area will be early morning, approximately 6-7 AM.

2.3 Water Distribution System

The expansion of the water supply system to service this project includes the extension of the water main along Emerson Avenue through the site, interconnecting it with the existing water main along the service road. The proposed loop will include a 12-inch Ductile Iron mainline with fire hydrants spaced at 250 feet on center. In addition, a line will be extended from the main along the service road to serve the maintenance facility and supply the irrigation system. From this looped line services for both fire flows and domestic flows will be extended to the clubhouse, fine dining/banquet facility and boathouse grill. In addition, water will be supplied to the bathroom facilities on the golf course and the facilities planned for the waterfront park.

The additional demand created by this project relative to supply and pressure will not have an adverse impact of the overall existing system.

3.0 Sanitary Sewer

3.1 Existing Conditions

This area of the Bronx is served by a combined sewer system, which ultimately discharges to and is treated at the Hunts Point Sewage Treatment Plant. There are major combined sewer mains along Miles Avenue, Emerson Avenue, Balcom Avenue and Schley Avenue including that portion of Schley Avenue that crosses this site and is proposed to be demapped. These lines were originally designed to handle the storm and sanitary sewer discharges from this site. These existing sewers vary in size from 3 by 4 feet along Emerson Avenue to 12 by 8 feet along that portion of Schley Avenue that crosses through this site.

3.2 Proposed Conditions

Based on the estimated water demand outlined above, the average daily sanitary sewer flows generated by this project are estimated to be approximately 51,066 gpd. These flows will be directed to the existing collection system adjacent to the site and ultimately treated at the Hunts Point Treatment plant. The average daily flow will be approximately 71 gpm based on a flow period of 12 hours. Because there are no facilities planned at this time, no additional sewer flows would be generated from this park.

The existing combined sewer system will be utilized to service this site. The primary sanitary sewer collection system will include a 10-inch gravity sewer line extending from Emerson Avenue along the loop

road. From this main, gravity services will be extended to the clubhouse, fine dining/banquet facility, and the facilities at the waterfront park.

Because of the grade differential, a pump station and forcemain will be required to service the boathouse grill. The pump station will be located behind the restaurant and the forcemain will extend to meet the proposed gravity line. The maintenance facility will be connected to the combines system by gravity and the facilities on the golf course will require small grinder pump stations.

Based on general information provided by the New York City Department of Environmental Protection (DEP), there would be adequate conveyance capacity and plant capacity to handle the flows generated by this project with out adversely affecting the existing systems.

4.0 Solid Waste

4.1 Existing Conditions

The existing site produces a small amount of solid waste from one existing use, the City's organic recycling and composting facility.

4.2 Proposed Conditions

All aspects of this facility will generate solid waste. A private commercial operator will be contracted to handle all waste generated on-site. All facilities will be provided with appropriately sized dumpsters or containers. The recycling/composting facility is proposed to be relocated, and would, therefore, no longer generate solid waste.

It is anticipated that the private operator contracted to handle this facility would have adequate capacity to handle the solid waste generated by this project without adversely affecting their existing operations or the areas adjacent to this project.

5.0 Energy

5.1 Existing Conditions

The existing site consumes a small amount the energy as a result of the City's recycling/composting operations.

5.2 Proposed Conditions:

It is anticipated that this facility will be serviced by both electricity and natural gas. The estimated demands for the proposed uses are summarized in the following table:

Use	Electrical	Gas (cubic feet/hour)
Clubhouse	125 kw	400 cfh
Boathouse Grill	215 kw	1,250 cfh
Catering Facility	500 kw	3,500 cfh
Managers Quarters	60 kw	400 cfh
Service Building	100 kw	200 cfh
Parking Lighting	40 kw	
Park Facilities	50 kw	
Total:	**1090 kw**	**5,750 cfh**

The electric services to the site will be extended from the existing lines along the east side of the site. Based on the anticipated loads, it appears that this project can be serviced without any adverse affects on the current system and the areas adjacent to this site. Because the recycling/composting facility is proposed to be relocated, it would no longer consume any energy.

6.0 DRAINAGE SYSTEM

6.1 Existing Drainage

The existing site ultimately drains to the East River. The site is relatively flat with elevations varying from 6 to 35. The site can be divided into three drainage areas generally defined as follows (see Figure I-1):

Area 1 – This area is approximately 40 acres in size and drains to the existing drainage system along the service road and then to the East River.

Area 2 – This area is approximately 75 acres in size and drains to the combined sewer system along Balcom Avenue, Miles Avenue and Emerson Avenue. This combined system has a diversion chamber at the intersection of Schurz Avenue and Emerson Avenue, which under high flow conditions discharges into the East River.

Area 3 – This area is approximately 90 acres in size and drains directly to the East River by overland flow.

A portion of the Bronx-Whitestone Bridge also drains through the project site and into the East River along with a portion of the City park to the west of the bridge. Absent remediation, which is currently not provided, water from the Bronx-Whitestone Bridge collects in low-lying areas on the westerly side of the bridge adjacent to Area 3.

6.2 Proposed Conditions

Under the proposed conditions, the site would be divided into seven primary drainage areas (see Figure I-2). All of them would include provisions for water quality treatment prior to discharge of the site. In addition, those areas that discharge into the City's combined sewer system have been designed with detention basins so that the pre-development discharges are not exceeded in the post-development condition for the prescribed rainfall event.

The methodology utilized in this analysis includes TR-20 and TR-55 computer programs designed to model small watersheds and the recommendations included in the New York State Department of Environmental Conservation (DEC) publication entitled "Reducing the Impacts of Stormwater Runoff from New

Figure I-1
Existing Drainage Areas

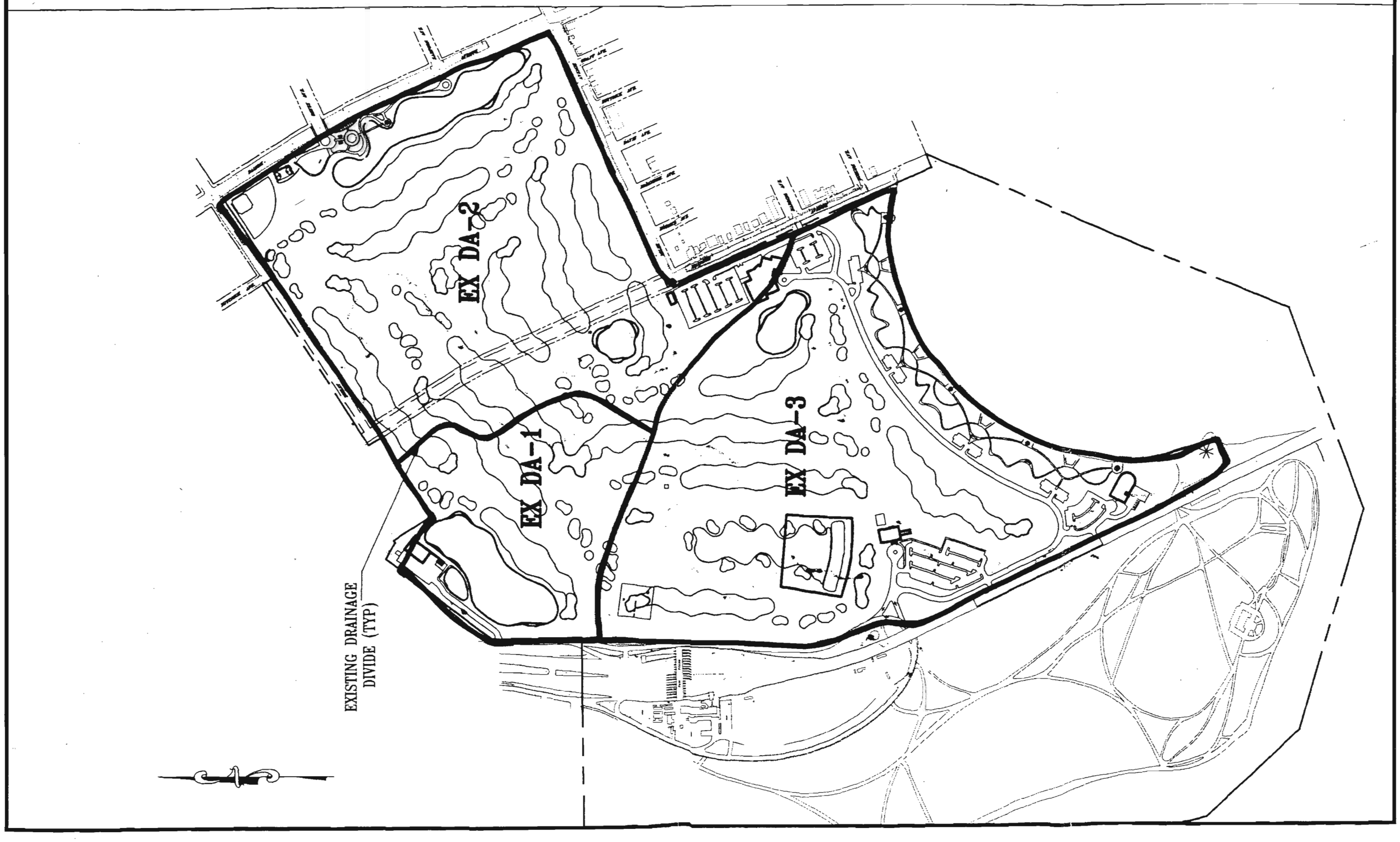

Figure 1-2
Proposed Drainage Areas

Development," the DEP publication entitled "Criteria for Determination of the Volume of Detention Facilities" and "Applicant's Guide to Stormwater Pollution Prevention Plans," also by DEP.

This system is designed to mitigate runoff contaminates generated by the proposed project, using wet and dry detention basins which include prolonged (in excess of two days) detention of the first flush. The first flush is defined as the first ½-inch of runoff from those areas whose imperviousness has changed, or a 1-year, 24-hour storm event—whichever is greater. For this project, the detention systems are sized to provide extended detention of the 1-year storm event. The performance of this system was evaluated for the 2-year event.

Runoff from all impervious areas and the golf course except the waterfront park is directed to some form of a detention basin. These basins are then designed with an outlet structure that detains for an extended period of time the first flush which contains approximately 90 percent of the pollutants generated by developments similar to the proposed project. Those areas that discharge out of the detention system and into the City's combined sewer system have been designed to include the detention volume necessary to insure that the post-development discharge rates do not exceed the estimated allowable discharge rates based on the estimated design capacity of the existing combined sewer system.

Following is a summary of the drainage areas, their specific land use characteristics, detention facilities, and outlet conditions.

Area 1:

This area is 26.3 acres in size and encompasses the access road and a portion of the golf course. The area includes approximately 54,000 square feet of impervious area; the balance is landscaped and golf course.

The water quality feature designed for this drainage area includes three dry detention areas—two integrated into the golf course design and one along the eastern edge of the waterfront park. The total area of these basins is 1.12 acres with an average depth of approximately three feet. These basins area designed with small (3- and 4-inch) outlets, which control the 1-year storm to provide the required detention time. For greater storms these basins discharge through the cover of a 4-by-4-foot catch basin. The piping system from this outlet structure is interconnected with the discharge piping from Drainage Area 2 and is connected to the City's sewer system below the diversion chamber in Emerson Road. The discharge from these combined areas is 0.34 cubic feet per second (cfs) for the 1-year event. The total runoff volume is 2.7 acre-feet (ac-ft) and the maximum detention time for this area is 3.93 days. The maximum depth of water in the basin during the 1-year storm is approximately 1.3 feet. The maximum depth of water in the basins during the 100 year event is 3.5 feet and the discharge for this storm event is 68 cfs.

Area 2:

This area is 24.60 acres and encompasses the fine dining/banquet facility and a portion of the golf course. The area includes approximately 209,393 square feet of impervious area and a 0.75- acre lake. The balance of the area is landscaped grounds and golf course. The water quality feature designed for this drainage area includes one wet pond and one retention basin. The lake is designed with a 4-inch outlet, which controls the 1-year storm to provide the required detention time. For greater storms, this system discharges through the cover of a 2-by-2-foot catch basin. The piping system from this outlet structure is interconnected with the discharge piping from Drainage Area 1 and is connected to the City's sewer system below the diversion chamber. The discharge from this area is 0.44 cfs for the one-year event. The total runoff volume is 2.62 ac-ft

and the maximum detention time for this area is 3 days. The maximum increase in water elevation in the lake during the 1-year storm is approximately 1.3 feet. The maximum increase in water elevation in the lake during the 100-year event is 2.5 feet.

Area 3:

This area is 47.1 acres and encompasses the maintenance area and a portion of the golf course. The area includes approximately 53,343 square feet of impervious area and 4.98 acres of lake. The balance of the area is landscaped and golf course.

The water quality feature designed for this drainage area includes one lake. The lake is designed with a 4-inch outlet, which control the 1-year storm to provide the required detention time. For greater storms, this system discharges through the cover of a 1.5-by-1.5-foot catch basin. The piping system from this outlet structure is connected to the City's sewer system along the 8-by-6-foot pipe that runs under the portion of Emerson being demapped. The discharge from this area is 0.27 cfs for the 1-year event. The total runoff volume is 4.31 ac-ft and the maximum detention time for this area is 8 days. The maximum increase in water elevation in the lake during the 1-year storm is approximately 0.6 feet. The maximum depth of water in the basins during the 100-year event is 2.4 feet. This system is connected directly to the city's sewer system therefore detention is required. The required detention volume is provided in the lake from elevation 14 to elevation 14.9 and is approximately 0.82 ac-ft of storage. The discharge rate as prorated for this area is 9.9 cfs.

Area 4:

This area is 21.05 acres and encompasses the central portion of the golf course and includes only landscaped areas and golf course. The water quality feature designed for this drainage area includes one lake and one shallow retention area. The lake and detention area discharge through a 4-inch outlet, which controls the 1-year storm to provide the required detention time. For greater storms this system discharges through the cover of a 1-by-1-foot and a 2-by-3-foot catch basin, respectively. The piping system from this outlet structure is connected to the City's sewer system along the 8-by-6-foot pipe that runs under the portion of Emerson being demapped. The discharge from this area is 0.35 cfs for the one-year event. The total runoff volume is 1.75 ac-ft and the maximum detention time for this area is 3.1 days. The maximum increase in water elevation in the lake during the 1-year storm is approximately 0.8 feet. The maximum depth of water in the basins during the 100-year event is 1.9 feet. This system is connected directly to the City's sewer system therefore a detention is required. The required detention volume is provided in the lake from elevation 13 to elevation 14.2 and is approximately 0.37 ac-ft of storage. The discharge rate as prorated for this area is 31.46 cfs.

Area 5:

This area is 46.22 acres and encompasses the eastern portion of the golf course and the community park. This area includes 40,000 square feet of impervious area and 4.52 acres of lake. The balance of the area is landscaped and golf course. The water quality feature designed for this drainage area includes one lake. The lake discharges through a 4-inch outlet, which controls the 1-year storm to provide the required detention time. For greater storms, this system discharges through the cover of a 2-by-3-foot catch basin. The piping system from this outlet structure is connected to the City's sewer system under Miles Avenue. The discharge from this area is 0.28 cfs for the 1-year event. The total runoff volume is 4.2 ac-ft and the maximum detention time for this area is 7.5 days. The maximum increase in water elevation in the lake during the 1-year storm

is approximately 0.6 feet. The maximum increase in water elevation in the lake during the 100-year event is 2 feet. This system is connected directly to the City's sewer system; therefore, a detention is required.

The required detention volume is provided in the lake from elevation 13 to elevation 13.9 and is approximately 0.9 ac-ft of storage. The discharge rate as prorated for this area is 26.65 cfs.

Areas 6 and 7:

These areas are 25.70 acres and encompass the western portion of the golf course, the clubhouse site and the boathouse grill. They include 279,809 square feet of impervious area. The balance of the area is landscaped and golf course. The water quality feature designed for these drainage area include two dry retention basins. Basins 6 and 7 discharge through a 6-inch and 3-inch outlet, respectively. These outlets control the 1-year storm to provide the required detention time. For greater storms these basin discharges over a 5-inch sharp-crested weir and a 2-by-3-foot catch basin. The piping system from these outlet structures is directed to a natural low area adjacent to the East River; it ultimately overflows into the East River. The combined discharge from these areas is 1.42 cfs for the 1-year event. The total runoff volume is 3.6 ac-ft and the maximum detention time for this area is 5.14 days. The depth of water in these basins during the 1-year storm event is approximately 1.5 feet. The depth of water in the basin during the 100-year event is 3.6 feet and the peak discharge is 68.89 cfs.

Bridge Drainage

Under existing conditions, drainage from the bridge and a portion of the western park area drain to a low area along the western side of the bridge adjacent to the site. As this runoff builds, it flows overland along the southern end of the bridge and discharges into the East River. This natural ponding area and undefined sheet flow discharge will be maintained and not impacted by the proposed development. The runoff from this portion of the bridge and park area will bypass the stormwater management systems designed for the project and be allowed to discharge directly into the East River as it does under existing conditions.

New York City Detention Volume Criteria:

There are two areas discharging into the City's Sewer system. Discharge Area 1 includes Drainage Area 5 that discharges into the existing sewer system on Miles Avenue. The allowable discharge from this area is calculated to be 35.2 cfs based on a contributing areas of approximately 20 acres, a composite Cn of 0.44 and a rainfall of 4 inches. The second area Discharge Area 2 includes Drainage Areas 3 and 4. The allowable discharge for this area is calculated to be 44.4 cfs based on a contributing area of 25.25 acres, a composite Cn of 0.44 and a rainfall event of 4.0 inches.

For Discharge Area 1, the required detention volume required to maintain a maximum discharge equal to the allowable discharge of 35.2 cfs is 0.9 ac-ft based on a composite Cn of 0.32 and area of 44.2 acres and a rainfall event of 5.95 acres.

For Discharge Area 2, the required detention volume required to maintain a maximum discharge equal to the allowable discharge of 44.4 cfs is 1.19 ac-ft based on a composite Cn of 0.27 and area of 67.7 acres and a rainfall event of 5.95 acres.

Based on the information outlined above, it can be concluded that the stormwater management system for this site has been designed to adequately control stormwater runoff from this site so as not to adversely affect the receiving system or the adjacent properties.

Attachment J: Traffic

A. INTRODUCTION

This attachment assesses the potential traffic impacts of the proposed development of a public recreation facility at Ferry Point Park, to the east of the Bronx-Whitestone Bridge. Vehicles would enter and exit the recreation facility from an entrance road to be constructed as part of the proposed project located off of the Ferry Point Park Access Road. The Ferry Point Park Access Road is currently a lightly traveled two-way roadway, except for the segment between Schley Avenue and the southbound I-678 park ramp, which is one-way southbound. As part of the proposed project, the Ferry Point Park Access Road would become a two-lane, one-way loop functioning as a southbound roadway on the west side of the Bronx-Whitestone Bridge and as a northbound roadway on the east side of the bridge. Currently, the project site is primarily unimproved and undeveloped New York City parkland; existing uses on the site are an organic recycling and composting facility (which would be relocated with development of the proposed project) and one baseball field and basketball court (which would be redeveloped as part of the public recreation facility). The proposed project would provide a total of 965 parking spaces (945 public parking spaces plus 20 parking spaces at the maintenance facility). Currently, there is an existing parking lot which serves users of the developed portion of Ferry Point Park to the west of the Bronx-Whitestone Bridge. This attachment analyzes the existing traffic conditions for the network and assesses potential changes in travel patterns associated with the development of the proposed public recreation facility.

B. EXISTING CONDITIONS

ROADWAY NETWORK

To assess the potential traffic impacts associated with the development of the project, seven key intersections were identified as those most likely to be affected by the project-related traffic (see Figure J-1). These include the signalized intersections of Lafayette Avenue with Brush Avenue, the I-678 north- and southbound service roads, and East Tremont Avenue; and Bruckner Boulevard and Brush Avenue. The intersection of the I-678 southbound service road and Schley Avenue is the only unsignalized location included in the study.

The I-678 north- and southbound service roads are major streets in the study area that provide two moving lanes. The service roads range in width from approximately 24 feet to 26 feet. Parking is not permitted along the service roads.

Lafayette Avenue and Bruckner Boulevard are major east-west roadways in the study area, providing access to the I-678 service roads, the Cross-Bronx Expressway and the Hutchinson River Parkway. Lafayette Avenue provides two moving lanes during the peak periods and ranges in width from 67 to 75 feet. Bruckner Boulevard provides two to three lanes in each direction during the peak periods and is approximately 75 feet in width. On-street parking is provided along portions of these streets.

East Tremont Avenue is a major north-south roadway in the study area. East Tremont Avenue provides two moving lanes in each direction during the peak periods. East Tremont Avenue and is approximately 60 feet in width. Two-hour metered parking is permitted along this street between 9:30 AM and 7:30 PM except on Sunday.

Brush and Schley Avenues are lightly traveled local roads in the study area. Brush Avenue operates in the north-south direction with one to two lanes in each direction. This street is approximately 50 feet in width. Parking is not permitted along Brush Avenue. Schley Avenue operates in the east-west direction with one lane in each direction. Schley Avenue is approximately 54 feet in width. There is 90 degree parking along the south side of Schley Avenue.

Currently, the Ferry Point Park Access Road is lightly traveled, and operates with one lane in each direction (north- and southbound), except for the segment between Schley Avenue and the southbound I-678 park ramp, which operates one-way southbound. Vehicles traveling north- and southbound on this access road are primarily park users traveling to and from the existing parking lot located on the west side of the bridge. Additionally, Triborough Bridge and Tunnel Authority (TBTA) vehicles traveling southbound from the eastern side of the bridge access the road from a restricted ramp located near the Bronx-bound toll plaza of the Bronx-Whitestone Bridge.

ANALYSIS METHODOLOGIES

SIGNALIZED INTERSECTIONS

The operation of the signalized intersections in the study area was analyzed applying the methodologies presented in the 1994 *Highway Capacity Manual* (*HCM*). This procedure evaluates signalized intersections for average delay per vehicle and level of service (LOS).

LOS for the signalized intersections is based on the average stopped delay per vehicle for the various lane group movements within the intersection. This delay is the basis for an LOS determination for individual lane groups, the approach as a whole, and the overall intersection.

The delay criteria for the range of service levels (LOS) follows below:

LOS	Average Delay
A	<5.0 seconds
B	5.1-15.0 seconds
C	15.1-25.0 seconds
D	25.1-40.0 seconds
E	40.1-60.0 seconds
F	>60.0 seconds

Although the *HCM* methodology calculates a volume-to-capacity (v/c) ratio, there is no strict relationship between v/c ratios and LOS. A high v/c ratio indicates substantial traffic passing through an intersection, but a high v/c ratio combined with a low average delay actually is the best case in terms of traffic engineering standards, where an approach, or the whole intersection, processes traffic close to its theoretical maximum with a minimum of delay. However, very high v/c ratios—especially those greater than 1.0—are often correlated with a deteriorated LOS. LOS A and B indicate good operating conditions with minimal delay. Other important variables

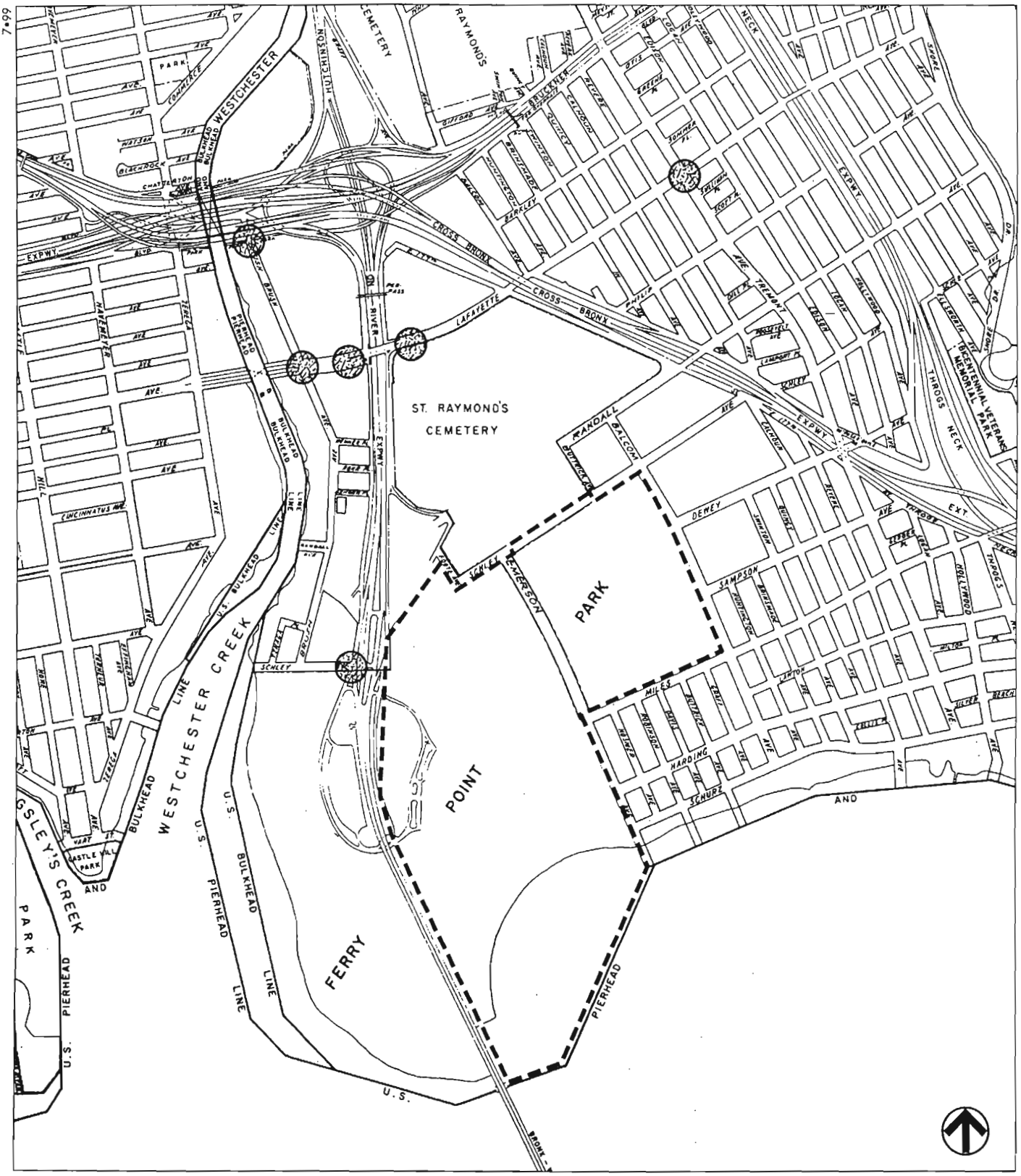

Project Site Boundary

Intersection Analyzed

0 1000 2000 FEET

SCALE

Ferry Point Park

Traffic Study Area

Figure J-1

affecting delay include cycle length, progression, and green time. At LOS C, the number of vehicles stopping is higher, but congestion is still fairly light. LOS D describes a condition where congestion levels are more noticeable and individual cycle failures (a condition where motorists may have to wait for more than one green phase to clear the intersection) can occur. Conditions at LOS E and F reflect poor service levels, and cycle breakdowns are frequent. The methodology provides for a summary of the total intersection operating conditions. The analysis chooses the two the worst-case movements from each roadway and calculates a summary v/c ratio, delay, and LOS for the intersection.

UNSIGNALIZED INTERSECTIONS

The LOS criteria are given below. As used here, total delay is defined as the total elapsed time when a vehicle stops at the end of the queue until the vehicle departs from the stop line; this includes the time required for the vehicle to travel from the last-in-queue to the first-in-queue position. The average total delay for any particular minor movement (referred to as a "critical movement") is a function of the service rate or capacity of the approach and the degree of saturation.

LOS	Average Delay
A	≤5.0 seconds
B	>5.1 and ≤10.0 seconds
C	>10.0 and ≤20.0 seconds
D	>20.0 and ≤30.0 seconds
E	>30.0 and ≤45.0 seconds
F	>45.0 seconds

The LOS criteria (number of seconds of delay corresponding to each LOS category) for unsignalized intersections are somewhat different from the criteria used in signalized intersections. The primary reason for this difference is that drivers expect different levels of performance from different kinds of transportation facilities. The expectation is that a signalized intersection is designed to carry higher traffic volumes than an unsignalized intersection. In addition, several driver behavior considerations combine to make delays at signalized intersections less onerous than at unsignalized intersections. For example, drivers at signalized intersections are able to relax during the red interval, whereas drivers on the minor approaches to unsignalized intersections must remain attentive to the task of identifying acceptable gaps and vehicle conflicts. Also, there is often much more variability in the amount of delay experienced by individual drivers at unsignalized than at signalized intersections. For these reasons, it is considered that the total delay threshold for any given LOS is less for an unsignalized than for a signalized intersection.

EXISTING TRAFFIC CONDITIONS AND LEVELS OF SERVICE

Existing traffic volumes in the study area were based on counts conducted in April and May 1999. These volumes indicate a weekday PM peak hour of 5 to 6 PM, a Saturday midday peak hour of 12 to 1 PM, and a Saturday PM peak hour of 5 to 6 PM. An inventory of the analyzed intersections was performed to determine cycle length, signage, timings, and phasings to be used in the calculation of the street capacities.

As shown in Figures J-2 through J-4, traffic volumes were estimated for the weekday PM, Saturday midday, and Saturday PM peak hours. These hours represent the heaviest network volumes

during the operation of the recreational facility and thus are the most sensitive hours for assessing impacts. Trips generated by the project during the weekday AM peak period would be minimal. Therefore, the weekday AM peak period is not a sensitive peak for assessing potential project impacts. North- and southbound volumes on the I-678 service roads range from 115 to 145 vehicles per hour (vph) and 210 to 430 in each direction, respectively, during the peak hours of analysis. East- and westbound traffic volumes on Lafayette Avenue range from 320 to 820 vph in each direction during the weekday PM, Saturday midday, and Saturday PM peak periods. East- and westbound volumes on Bruckner Boulevard range from 810 to 1,105 vph in each direction during the peak hours of analysis. North- and southbound volumes on the Brush Avenue range from 120 to 335 vph in each direction during the peak periods. North- and southbound volumes on East Tremont Avenue range from 600 to 790 vph in each direction during the weekday PM, Saturday midday, and Saturday PM peak periods. East- and westbound volumes on Schley Avenue range from 75 to 130 vph in each direction during the peak periods.

Tables J-1 and J-2 present the level of service conditions for the study area's signalized and unsignalized intersections, respectively. The capacity analysis indicates that all approaches operate acceptably—at mid-range LOS D or better for the weekday PM, Saturday midday, and Saturday PM peak hours.

PARKING

The project site is composed primarily of undeveloped parkland, with the exception of an organic recycling and composting facility operated by the New York City Department of Parks and Recreation (DPR) at the northwestern corner of the site, and a ballfield and basketball court at the northeastern corner of the site. Informal uses on the site include dirt bike trails and a model airplane field. There is a parking lot at the west side of the Bronx-Whitestone Bridge which serves the developed western portion of Ferry Point Park.

PUBLIC TRANSPORTATION

As shown in Figure J-5, the study area is served by buses Q44 (operated by New York City Transit [NYCT]) and QBx1 (operated by Queens Surface Corporation). The closest Q44 bus stop to Ferry Point Park is at the intersection of Lafayette Avenue and the I-678 southbound service road (approximately 0.7 miles from the park). The Q44 operates 8, 7, and 8 buses per hour during the weekday PM, Saturday midday peak hours, respectively. The QBx1, an express bus which provides service between Flushing and Co-Op City via the Bronx-Whitestone Bridge, stops at the intersections of Lafayette Avenue and the I-678 north- and southbound service roads, and the intersection of Wenner Place and the I-678 southbound service road (approximately 0.5 miles from the park). Because the existing bus stops are relatively distant from the park, and sidewalks along the I-678 southbound service road are not continuous, few users travel to the park by bus.

PEDESTRIANS AND BICYCLES

Existing pedestrian activity in the study area is low. There are lightly used sidewalks along portions of the I-678 north- and southbound service roads and the Ferry Point Park access road. Based on field reconaissance, there are no pedestrian-vehicle conflict locations. There is no existing bicycle lane on the Ferry Point Park access road.

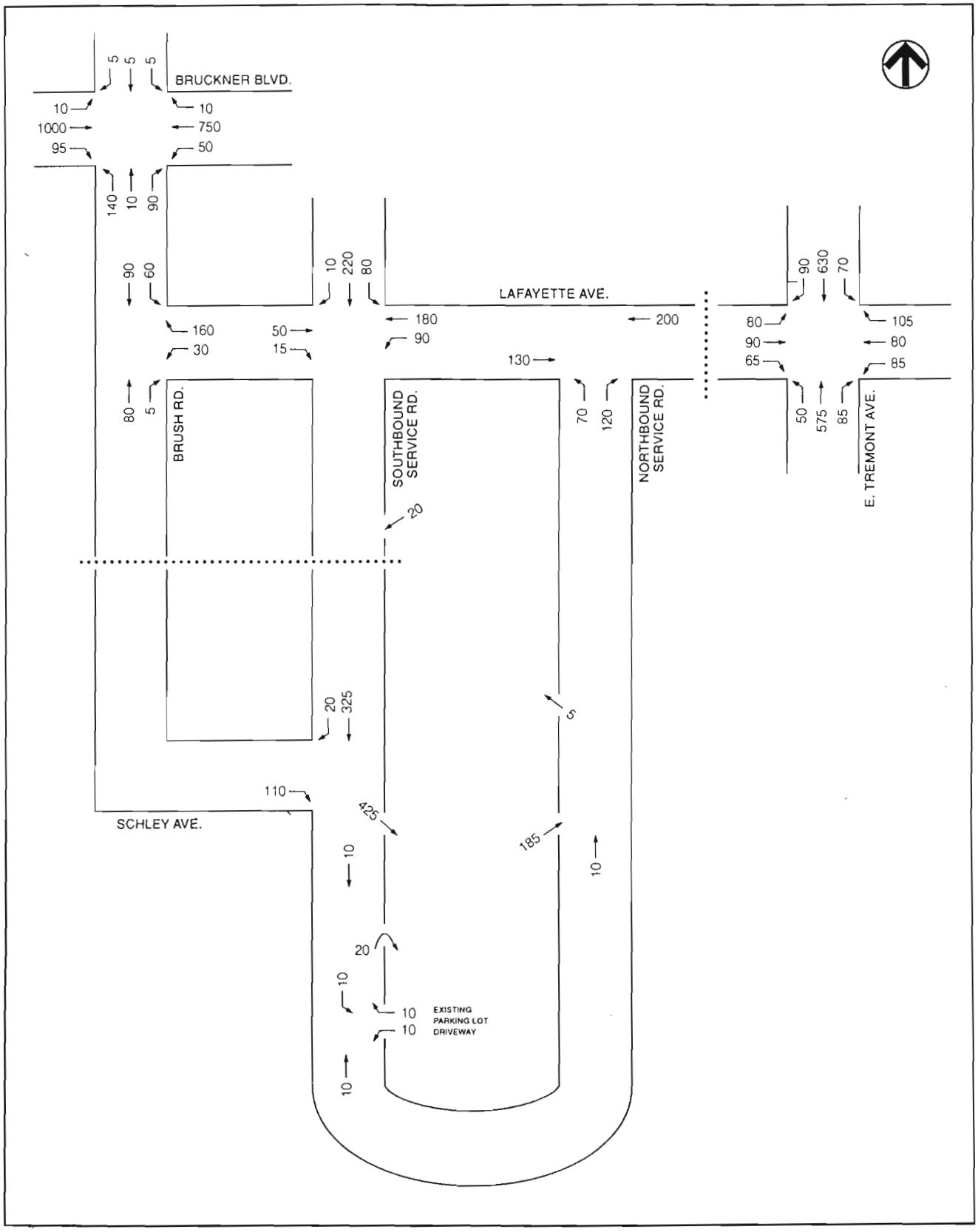

Not to Scale

Existing Traffic Volumes • Weekday PM Peak Hour

Ferry Point Park

Figure J-2

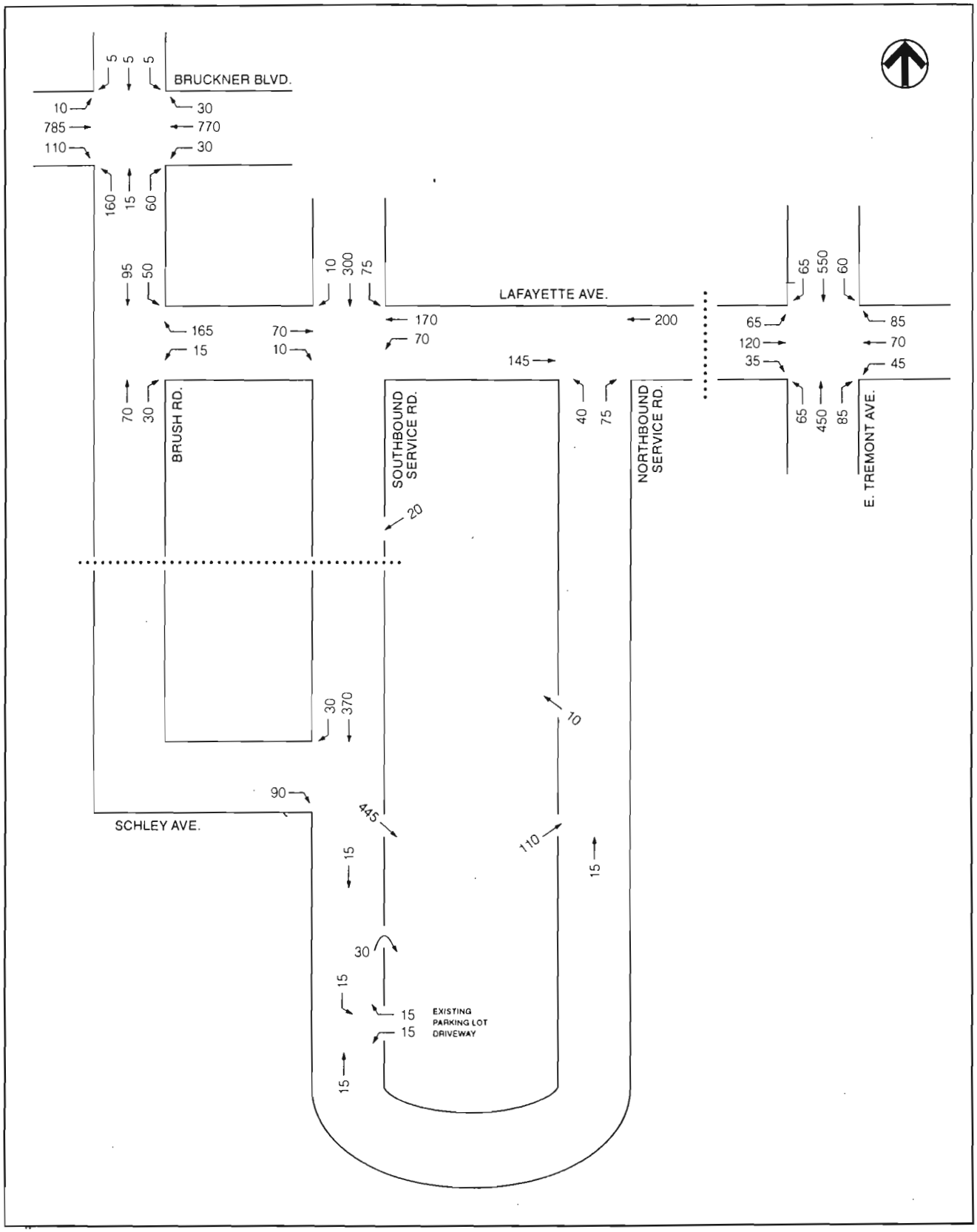

Not to Scale

Existing Traffic Volumes • Saturday Midday Peak Hour

Ferry Point Park

Figure J-3

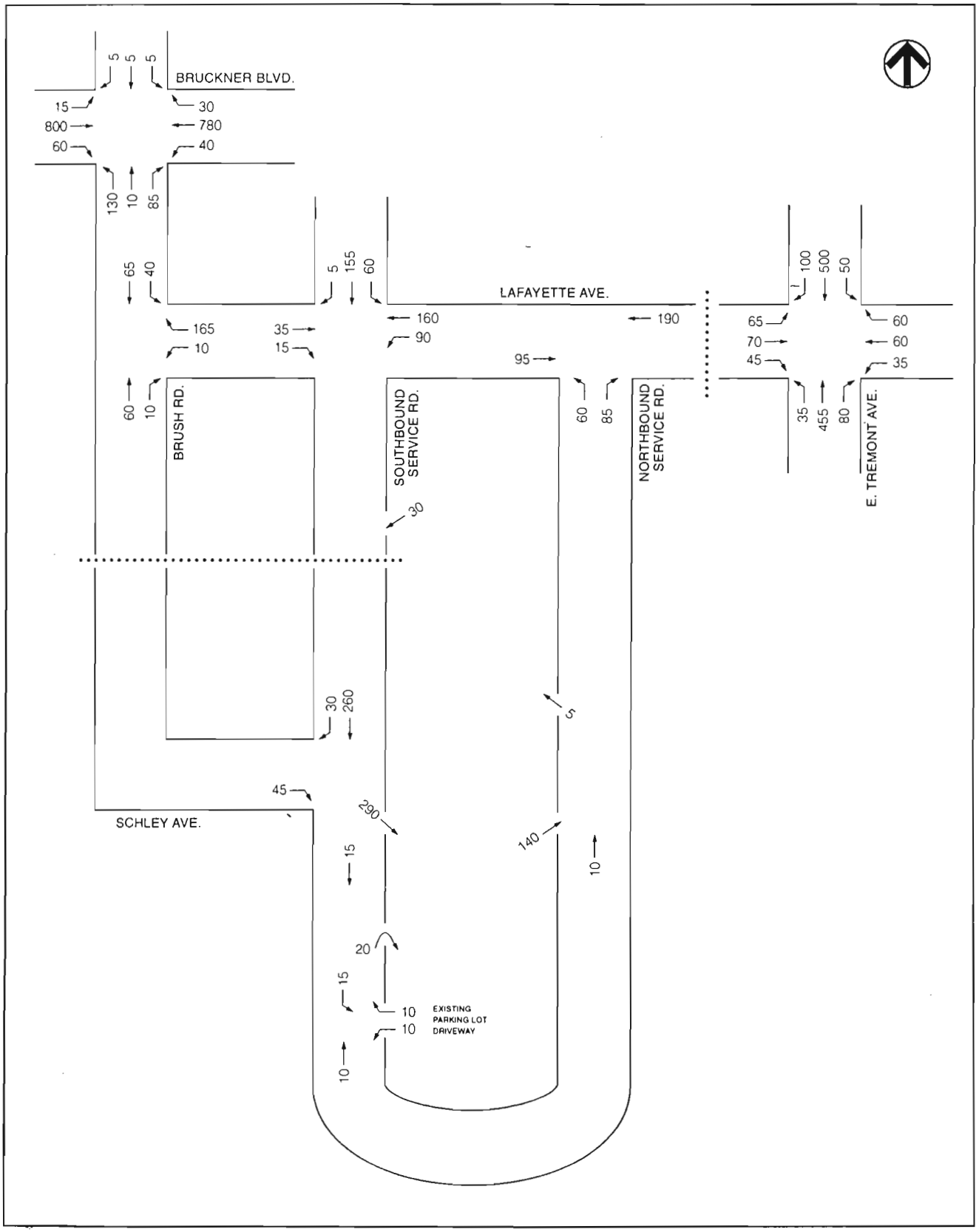

Not to Scale

Existing Traffic Volumes • Saturday PM Peak Hour

Ferry Point Park

Figure J-4

Table J-1
Signalized Intersections:
1999 Existing Conditions Level of Service Analysis

Intersection	Weekday PM Existing							
	Lane Group	V/C Ratio	Delay (seconds)	LOS	Approach Delay	Approach LOS	Intersection Delay	Intersection LOS
BRUCKNER BOULEVARD & BRUSH AVENUE								
Eastbound	LTR	0.611	10.7	B	10.7	B	12.4	B
Westbound	DfL	0.798	42.2	E	11.6	B		
	TR	0.516	9.7	B				
Northbound	DfL	0.411	24.4	C	24.1	C		
	TR	0.334	23.5	C				
Southbound	DfL	0.020	20.9	C	21.0	C		
	TR	0.030	21.0	C				
LAFAYETTE AVENUE & BRUSH AVENUE								
Westbound	L	0.049	4.7	A	5.1	B	8.4	B
	R	0.198	5.2	B				
Northbound	TR	0.130	10.1	B	10.1	B		
Southbound	LT	0.249	10.6	B	10.6	B		
LAFAYETTE AVENUE & I-678 SB SERVICE ROAD								
Eastbound	T	0.042	6.9	B	6.9	B	11.9	B
Westbound	LT	0.230	7.8	B	7.8	B		
Southbound	LTR	0.417	15.9	C	15.9	C		
LAFAYETTE AVENUE & I-678 NB SERVICE ROAD								
Eastbound	T	0.094	6.8	B	6.8	B	6.4	B
Westbound	T	0.144	7.0	B	7.0	B		
Northbound	L	0.204	14.9	B	5.5	B		
	R	0.129	0.0	A				
LAFAYETTE AVENUE & EAST TREMONT AVENUE								
Eastbound	LTR	0.566	18.2	C	18.2	C	23.7	C
Westbound	LTR	0.563	18.2	C	18.2	C		
Northbound	LTR	0.950	28.5	D	28.5	D		
Southbound	LTR	0.924	23.5	C	23.5	C		

Table J-1 (continued)
Signalized Intersections:
1999 Existing Conditions Level of Service Analysis

Intersection	Saturday Midday Existing							
	Lane Group	V/C Ratio	Delay (seconds)	LOS	Approach Delay	Approach LOS	Intersection Delay	Intersection LOS
BRUCKNER BOULEVARD & BRUSH AVENUE								
Eastbound	LTR	0.505	9.5	B	9.5	B	11.4	B
Westbound	LTR	0.500	9.5	B	9.5	B		
Northbound	DfL	0.500	25.7	D	24.7	C		
	TR	0.257	22.8	C				
Southbound	DfL	0.018	20.9	C	20.9	C		
	TR	0.029	21.0	C				
LAFAYETTE AVENUE & BRUSH AVENUE								
Westbound	L	0.022	4.7	A	5.1	B	8.4	B
	R	0.179	5.1	B				
Northbound	TR	0.136	10.1	B	10.1	B		
Southbound	LT	0.200	10.4	B	10.4	B		
LAFAYETTE AVENUE & I-678 SB SERVICE ROAD								
Eastbound	T	0.054	7.0	B	7.0	B	12.0	B
Westbound	LT	0.186	7.5	B	7.5	B		
Southbound	LTR	0.423	15.9	C	15.9	C		
LAFAYETTE AVENUE & I-678 NB SERVICE ROAD								
Eastbound	T	0.120	6.9	B	6.9	B	6.4	B
Westbound	T	0.150	7.0	B	7.0	B		
Northbound	L	0.121	14.4	B	5.0	A		
	R	0.084	0.0	A				
LAFAYETTE AVENUE & EAST TREMONT AVENUE								
Eastbound	LTR	0.351	15.9	C	15.9	C	12.3	B
Westbound	LTR	0.299	15.5	C	15.5	C		
Northbound	LTR	0.678	11.8	B	11.8	B		
Southbound	LTR	0.620	10.6	B	10.6	B		

Table J-1 (continued)
Signalized Intersections:
1999 Existing Conditions Level of Service Analysis

Intersection	Saturday PM Existing							
	Lane Group	V/C Ratio	Delay (seconds)	LOS	Approach Delay	Approach LOS	Intersection Delay	Intersection LOS
BRUCKNER BOULEVARD & BRUSH AVENUE								
Eastbound	LTR	0.500	9.5	B	9.5	B	11.1	B
Westbound	LTR	0.496	9.5	B	9.5	B		
Northbound	DfL	0.374	23.9	C	23.6	C		
	TR	0.304	23.2	C				
Southbound	DfL	0.019	20.9	C	21.0	C		
	TR	0.029	21.0	C				
LAFAYETTE AVENUE & BRUSH AVENUE								
Westbound	L	0.014	4.7	A	5.1	B	8.3	B
	R	0.179	5.1	B				
Northbound	TR	0.103	10.0	B	10.0	B		
Southbound	LT	0.181	10.3	B	10.3	B		
LAFAYETTE AVENUE & I-678 SB SERVICE ROAD								
Eastbound	T	0.031	6.9	B	6.9	B	11.1	B
Westbound	LT	0.215	7.7	B	7.7	B		
Southbound	LTR	0.322	15.1	C	15.1	C		
LAFAYETTE AVENUE & I-678 NB SERVICE ROAD								
Eastbound	T	0.081	6.7	B	6.7	B	6.6	B
Westbound	T	0.136	7.0	B	7.0	B		
Northbound	L	0.155	14.6	B	6.0	B		
	R	0.081	0.0	A				
LAFAYETTE AVENUE & EAST TREMONT AVENUE								
Eastbound	LTR	0.328	15.7	C	15.7	C	11.6	B
Westbound	LTR	0.267	15.3	C	15.3	C		
Northbound	LTR	0.591	10.3	B	10.3	B		
Southbound	LTR	0.608	10.4	B	10.4	B		

Table J-2
Unsignalized Intersections:
1999 Existing Conditions Level of Service Analysis

Intersection	Weekday PM Existing		
		Lane Group	
	Lane Group	Delay (seconds)	LOS
I-678 SB SERVICE ROAD & SCHLEY AVENUE			
Eastbound	R	3.7	A

Table J-2 (continued)
Unsignalized Intersections:
1999 Existing Conditions Level of Service Analysis

Intersection	Saturday Midday Existing		
		Lane Group	
	Lane Group	Delay (seconds)	LOS
I-678 SB SERVICE ROAD & SCHLEY AVENUE Eastbound	R	3.9	A

Table J-2 (continued)
Unsignalized Intersections:
1999 Existing Conditions Level of Service Analysis

Intersection	Saturday PM Existing		
	Lane Group	Lane Group	
		Delay (seconds)	LOS
I-678 SB SERVICE ROAD & SCHLEY AVENUE			
Eastbound	R	3.4	A

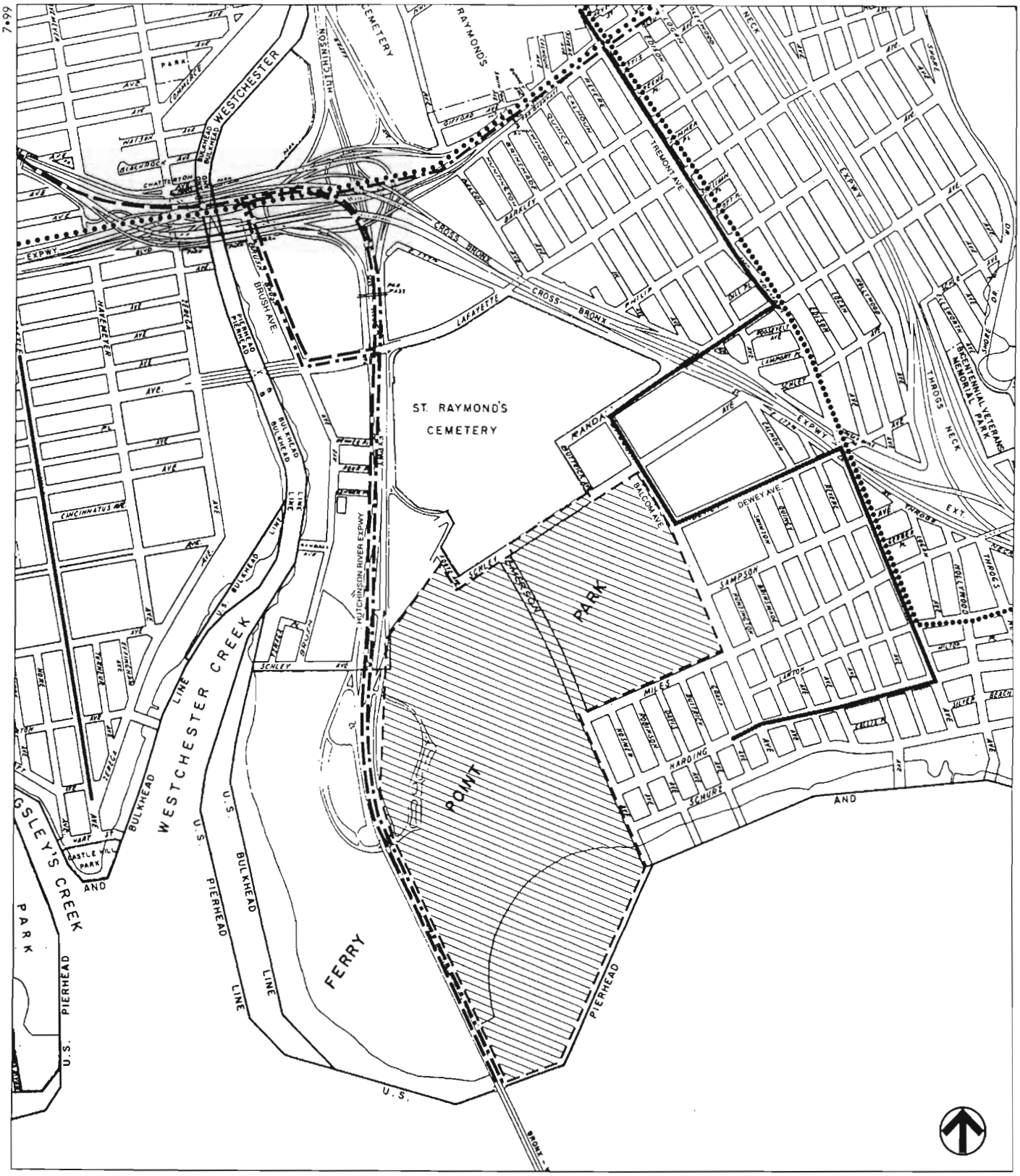

Project Site

Bus Routes

- Q-Bx 1
- Q44
- 42
- 40
- 5

0 1000 2000 FEET

SCALE

Ferry Point Park

Public Transportation

Figure J-5

C. THE FUTURE WITHOUT THE PROJECT

To establish a baseline (the No Build scenario) against which to evaluate the impacts of the proposed project, future year traffic conditions were conservatively analyzed for 2002, when all components of the project would be completed and operational. Future conditions were estimated by applying a growth rate of 2.0 percent (0.67 percent per year, more conservative than the 0.5 percent per year stipulated in the *City Environmental Quality Review Technical Manual*) to the existing network volumes, and by adding these grown volumes to vehicle trips generated by the development of approximately 50 residential units in the vicinity of Balcom Avenue and Huntington Avenue (to the east of the project site) in the study area. The vehicle trip generation for these residential units were based on rates presented in the *Institute of Transportation Engineers' Trip Generation Manual, Sixth Edition* and existing travel patterns. The trip assignment for these residential units were based on existing travel patterns in the area.

Analysis of future conditions also accounts for the TBTA relocation of the southbound on-ramp to the Bronx-Whitestone Bridge near Schley Avenue. This ramp, which is currently south of the intersection of Schley Avenue and the I-678 southbound service road, is being moved north of Schley Avenue, and is planned for completion by 2000. Because of this change, vehicles traveling from Brush Road and Schley Avenue were reassigned to the most logical route to the new southbound on-ramp (i.e., vehicles previously traveling southbound on Brush Road to Schley Avenue to the southbound ramp would instead travel on the I-678 southbound service road to the southbound ramp). This change would reduce queues on the southbound service road and delays at the Queens-bound toll plaza. Furthermore, "No Bridge Re-Entry" signs will be provided to discourage vehicles from bypassing the queue on the mainline via the I-678 southbound service road.

In addition, the TBTA is considering the relocation of the on- and off-ramps on the I-678 northbound service road. This would involve moving the off-ramp toward Lafayette Avenue and the on-ramp toward the Bronx Whitestone Bridge. Currently, vehicles traveling north from the bridge pass the off-ramp to the I-678 northbound service road first, then pass the on-ramp from the service road. If the relocation occurs, this order would be switched. The relocation of the northbound ramps is in the proposal stage and therefore is not included in this analysis of traffic conditions. However, the development of the proposed public recreation facility would not affect plans to relocate the northbound ramps in future conditions.

TRAFFIC CONDITIONS

The 2002 No Build volumes are shown in Figures J-6 through J-8 for the weekday PM, Saturday midday, and Saturday PM peak hours. Tables J-3 and J-4 present a comparison of the Existing and No Build service conditions for the study area's intersections. There would be no notable changes in LOS at the study area intersections, with the exception of the north- and southbound approaches at the intersection of East Tremont Avenue and Lafayette Avenue, which would drop from mid-range LOS D in existing conditions to upper-range LOS D in No Build conditions, and from LOS C in existing conditions to LOS D in No Build conditions, respectively, during the weekday PM peak hour.

PARKING

Parking is expected to remain similar to existing conditions.

Table J-3
Signalized Intersections:
1999 Existing and 2002 No Build Conditions Level of Service Analyses

Intersection	Weekday PM															
	Existing								No Build							
	Lane Group	V/C Ratio	Delay (seconds)	LOS	Approach Delay	Approach LOS	Intersection Delay	Intersection LOS	Lane Group	V/C Ratio	Delay (seconds)	LOS	Approach Delay	Approach LOS	Intersection Delay	Intersection LOS
BRUCKNER BOULEVARD & BRUSH AVENUE																
Eastbound	LTR	0.611	10.7	B	10.7	B	12.4	B	LTR	0.624	10.9	B	10.9	B	11.9	B
Westbound	DfL	0.798	42.2	E	11.6	B			DfL	0.423	11.1	B	9.8	B		
	TR	0.516	9.7	B					TR	0.525	9.8	B				
Northbound	DfL	0.411	24.4	C	24.1	C			DfL	0.419	24.5	C	24.1	C		
	TR	0.334	23.5	C					TR	0.340	23.6	C				
Southbound	DfL	0.020	20.9	C	21.0	C			DfL	0.021	20.9	C	21.0	C		
	TR	0.030	21.0	C					TR	0.030	21.0	C				
LAFAYETTE AVENUE & BRUSH AVENUE																
Westbound	L	0.049	4.7	A	5.1	B	8.4	B	L	0.016	4.7	A	5.2	B	8.2	B
	R	0.198	5.2	B					R	0.205	5.2	B				
Northbound	TR	0.130	10.1	B	10.1	B			TR	0.134	10.1	B	10.1	B		
Southbound	LT	0.249	10.6	B	10.6	B			DfL	0.223	10.5	B	10.3	B		
									T	0.108	10.0	B				
LAFAYETTE AVENUE & I-678 SB SERVICE ROAD																
Eastbound	T	0.042	6.9	B	6.9	B	11.9	B	T	0.043	6.9	B	6.9	B	12.6	B
Westbound	LT	0.230	7.8	B	7.8	B			LT	0.242	7.8	B	7.8	B		
Southbound	LTR	0.417	15.9	C	15.9	C			LTR	0.490	16.6	C	16.6	C		
LAFAYETTE AVENUE & I-678 NB SERVICE ROAD																
Eastbound	T	0.094	6.8	B	6.8	B	6.4	B	T	0.097	6.8	B	6.8	B	6.4	B
Westbound	T	0.144	7.0	B	7.0	B			T	0.148	7.0	B	7.0	B		
Northbound	L	0.204	14.9	B	5.5	B			L	0.209	14.9	B	5.5	B		
	R	0.129	0.0	A					R	0.133	0.0	A				
LAFAYETTE AVENUE & EAST TREMONT AVENUE																
Eastbound	LTR	0.566	18.2	C	18.2	C	23.7	C	LTR	0.589	18.6	C	18.6	C	29.6	D
Westbound	LTR	0.563	18.2	C	18.2	C			LTR	0.583	18.5	C	18.5	C		
Northbound	LTR	0.950	28.5	D	28.5	D			LTR	0.991	36.7	D	36.7	D		
Southbound	LTR	0.924	23.5	C	23.5	C			LTR	0.975	31.6	D	31.6	D		

Table J-3 (continued)
Signalized Intersections:
1999 Existing and 2002 No Build Conditions Level of Service Analyses

Intersection	Saturday Midday															
	Existing								No Build							
	Lane Group	V/C Ratio	Delay (seconds)	LOS	Approach Delay	Approach LOS	Intersection Delay	Intersection LOS	Lane Group	V/C Ratio	Delay (seconds)	LOS	Approach Delay	Approach LOS	Intersection Delay	Intersection LOS
BRUCKNER BOULEVARD & BRUSH AVENUE																
Eastbound	LTR	0.505	9.5	B	9.5	B	11.4	B	LTR	0.505	9.5	B	9.5	B	11.2	B
Westbound	LTR	0.500	9.5	B	9.5	B			LTR	0.444	9.0	B	9.0	B		
Northbound	DfL	0.500	25.7	D	24.7	C			DfL	0.516	25.9	D	24.9	C		
	TR	0.257	22.8	C					TR	0.260	22.8	C				
Southbound	DfL	0.018	20.9	C	20.9	C			DfL	0.018	20.9	C	20.9	C		
	TR	0.029	21.0	C					TR	0.029	21.0	C				
LAFAYETTE AVENUE & BRUSH AVENUE																
Westbound	L	0.022	4.7	A	5.1	B	8.4	B	L	0.008	4.6	A	5.1	B	8.2	B
	R	0.179	5.1	B					R	0.187	5.2	B				
Northbound	TR	0.136	10.1	B	10.1	B			TR	0.139	10.1	B	10.1	B		
Southbound	LT	0.200	10.4	B	10.4	B			DfL	0.162	10.2	B	10.1	B		
									T	0.103	10.0	B				
LAFAYETTE AVENUE & I-678 SB SERVICE ROAD																
Eastbound	T	0.054	7.0	B	7.0	B	12.0	B	T	0.056	7.0	B	7.0	B	12.6	B
Westbound	LT	0.186	7.5	B	7.5	B			LT	0.196	7.6	B	7.6	B		
Southbound	LTR	0.423	15.9	C	15.9	C			LTR	0.486	16.5	C	16.5	C		
LAFAYETTE AVENUE & I-678 NB SERVICE ROAD																
Eastbound	T	0.120	6.9	B	6.9	B	6.4	B	T	0.123	6.9	B	6.9	B	6.5	B
Westbound	T	0.150	7.0	B	7.0	B			T	0.155	7.0	B	7.0	B		
Northbound	L	0.121	14.4	B	5.0	A			L	0.125	14.4	B	5.0	A		
	R	0.084	0.0	A					R	0.087	0.0	A				
LAFAYETTE AVENUE & EAST TREMONT AVENUE																
Eastbound	LTR	0.351	15.9	C	15.9	C	12.3	B	LTR	0.362	16.0	C	16.0	C	12.7	B
Westbound	LTR	0.299	15.5	C	15.5	C			LTR	0.306	15.5	C	15.5	C		
Northbound	LTR	0.678	11.8	B	11.8	B			LTR	0.710	12.5	B	12.5	B		
Southbound	LTR	0.620	10.6	B	10.6	B			LTR	0.641	10.9	B	10.9	B		

Table J-3 (continued)
Signalized Intersections:
1999 Existing and 2002 No Build Conditions Level of Service Analyses

Intersection	Saturday PM															
	Existing								No Build							
	Lane Group	V/C Ratio	Delay (seconds)	LOS	Approach Delay	Approach LOS	Intersection Delay	Intersection LOS	Lane Group	V/C Ratio	Delay (seconds)	LOS	Approach Delay	Approach LOS	Intersection Delay	Intersection LOS
BRUCKNER BOULEVARD & BRUSH AVENUE																
Eastbound	LTR	0.500	9.5	B	9.5	B	11.1	B	LTR	0.512	9.6	B	9.6	B	11.1	B
Westbound	LTR	0.496	9.5	B	9.5	B			LTR	0.490	9.4	B	9.4	B		
Northbound	DfL	0.374	23.9	C	23.6	C			DfL	0.384	24.1	C	23.7	C		
	TR	0.304	23.2	C					TR	0.310	23.3	C				
Southbound	DfL	0.019	20.9	C	21.0	C			DfL	0.020	20.9	C	21.0	C		
	TR	0.029	21.0	C					TR	0.029	21.0	C				
LAFAYETTE AVENUE & BRUSH AVENUE																
Westbound	L	0.014	4.7	A	5.1	B	8.3	B	L	0.008	4.6	A	5.1	B	8.0	B
	R	0.179	5.1	B					R	0.187	5.2	B				
Northbound	TR	0.103	10.0	B	10.0	B			TR	0.104	10.0	B	10.0	B		
Southbound	LT	0.181	10.3	B	10.3	B			DfL	0.153	10.2	B	10.1	B		
									T	0.129	10.1	B				
LAFAYETTE AVENUE & I-678 SB SERVICE ROAD																
Eastbound	T	0.031	6.9	B	6.9	B	11.1	B	T	0.033	6.9	B	6.9	B	11.4	B
Westbound	LT	0.215	7.7	B	7.7	B			LT	0.224	7.7	B	7.7	B		
Southbound	LTR	0.322	15.1	C	15.1	C			LTR	0.358	15.4	C	15.4	C		
LAFAYETTE AVENUE & I-678 NB SERVICE ROAD																
Eastbound	T	0.081	6.7	B	6.7	B	6.6	B	T	0.084	6.7	B	6.7	B	6.6	B
Westbound	T	0.136	7.0	B	7.0	B			T	0.140	7.0	B	7.0	B		
Northbound	L	0.155	14.6	B	6.0	B			L	0.157	14.6	B	5.9	B		
	R	0.081	0.0	A					R	0.084	0.0	A				
LAFAYETTE AVENUE & EAST TREMONT AVENUE																
Eastbound	LTR	0.328	15.7	C	15.7	C	11.6	B	LTR	0.343	15.8	C	15.8	C	11.9	B
Westbound	LTR	0.267	15.3	C	15.3	C			LTR	0.272	15.3	C	15.3	C		
Northbound	LTR	0.591	10.3	B	10.3	B			LTR	0.619	10.7	B	10.7	B		
Southbound	LTR	0.608	10.4	B	10.4	B			LTR	0.629	10.7	B	10.7	B		

Table J-4
Unsignalized Intersections:
1999 Existing and 2002 No Build Conditions Level of Service Analysis

Intersection	Lane Group	Weekday PM			
		Existing		No Build	
		Lane Group		Lane Group	
		Delay (seconds)	LOS	Delay (seconds)	LOS
I-678 SB SERVICE ROAD & SCHLEY AVENUE Eastbound	R	3.7	A	2.7	A

Table J-4 (continued)
Unsignalized Intersections:
1999 Existing and 2002 No Build Conditions Level of Service Analysis

Intersection	Lane Group	Saturday Midday			
		Existing		No Build	
		Lane Group		Lane Group	
		Delay (seconds)	LOS	Delay (seconds)	LOS
I-678 SB SERVICE ROAD & SCHLEY AVENUE					
Eastbound	R	3.9	A	2.7	A

Table J-4 (continued)
Unsignalized Intersections:
1999 Existing and 2002 No Build Conditions Level of Service Analysis

Intersection	Lane Group	Saturday PM			
		Existing		No Build	
		Lane Group		Lane Group	
		Delay (seconds)	LOS	Delay (seconds)	LOS
I-678 SB SERVICE ROAD & SCHLEY AVENUE					
Eastbound	R	3.4	A	2.7	A

PUBLIC TRANSPORTATION

Bus service to the study area is expected to remain similar to that in existing conditions.

PEDESTRIANS AND BICYCLES

In No Build conditions, pedestrian activity is expected to remain similar to those in existing conditions. In No Build conditions, there would be the potential for development of a greenway along the I-678 north- and southbound service roads, as well as along the Bronx Whitestone Bridge (via bus service), by the NYC DCP in accordance with its *Greenway Plan for New York City*. In addition, NYC DCP's *1999 Draft Greenway Master Plan: Soundview Park to Ferry Point Park* proposes a greenway connection from Brush Avenue and Lafayette Avenue to the I-678 northbound service road. At the present time, these are proposals which may or may not be implemented.

D. PROBABLE IMPACTS OF THE PROPOSED PROJECT

TRIP GENERATION

The proposed public recreation facility includes a 7.0-acre community park, 19.5-acre waterfront park, 400-seat boathouse grill restaurant, 1,000-seat banquet facility, and golf facilities, including an 18-hole golf course and 100-stall driving range. As presented in Table J-5, trips generated by the proposed boathouse grill, banquet facility, and golf facilities were based on rates found in the *ITE Trip Generation Manual, Sixth Edition*. Trips generated by the proposed community and waterfront parks were based on existing activity at the currently developed western portion of Ferry Point Park. Estimated trip generation for future conditions are 502 vehicles in and 150 vehicles out during the weekday PM peak, 334 vehicles in and 269 vehicles out during the Saturday midday peak, and 510 vehicles in and 144 vehicles out during the Saturday PM peak. The traffic analysis is conservative because it overlays the peak hour volumes of the proposed facility onto the peak hour of the roadway network. Trips generated by the proposed project would increase traffic on the I-678 mainline by 5 percent or less, which would not significantly impact traffic operating conditions on the parkway. In reality, these two peaks (the generator and base network) do not necessarily overlap. Truck trips generated during construction of the project would be temporary in nature and are not included in this analysis.

TRIP ASSIGNMENT

Trips were assigned based on existing travel patterns in the study area and knowledge of the customer base for the proposed facility are as follows: 20 percent of trips originating from the northeastern portion of the study area and 15 percent of trips originating from the northwestern portion of the study area would travel on local roadways; 40 percent of trips originating from the north would travel southbound on the Hutchinson River Parkway; and 25 percent of trips from the south would travel over the Bronx-Whitestone Bridge from Queens. Trips generated during construction of the proposed project would utilize New York City truck routes to the site, including the I-678 north- and southbound service roads and Lafayette Avenue. As noted above, construction vehicles are not included in this analysis. Figures J-9 through J-11 show the estimated project-generated vehicle trips for the weekday PM, Saturday midday, and Saturday PM peak hours.

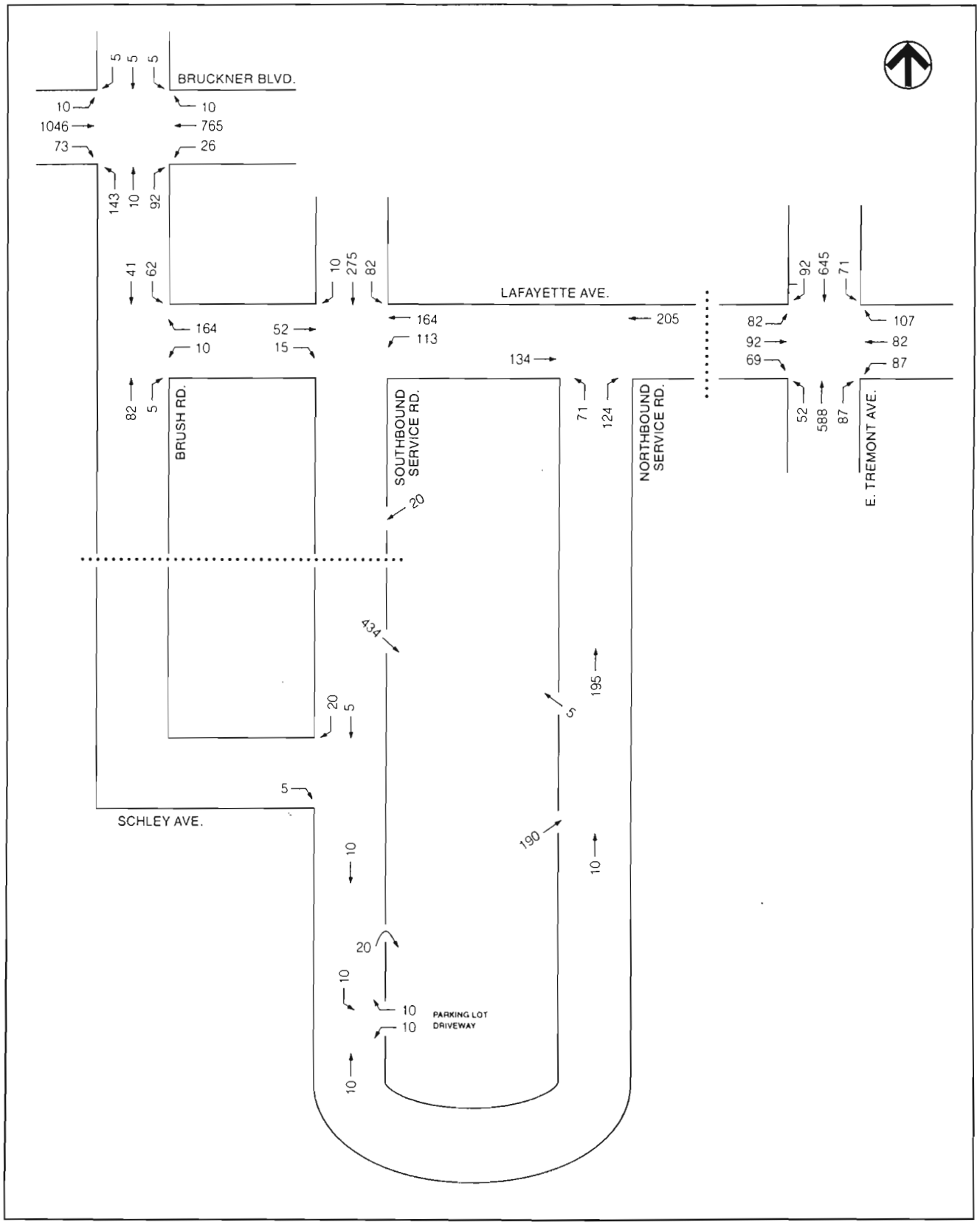

Not to Scale

2002 No Build Traffic Volumes • Weekday PM Peak Hour

Ferry Point Park

Figure J-6

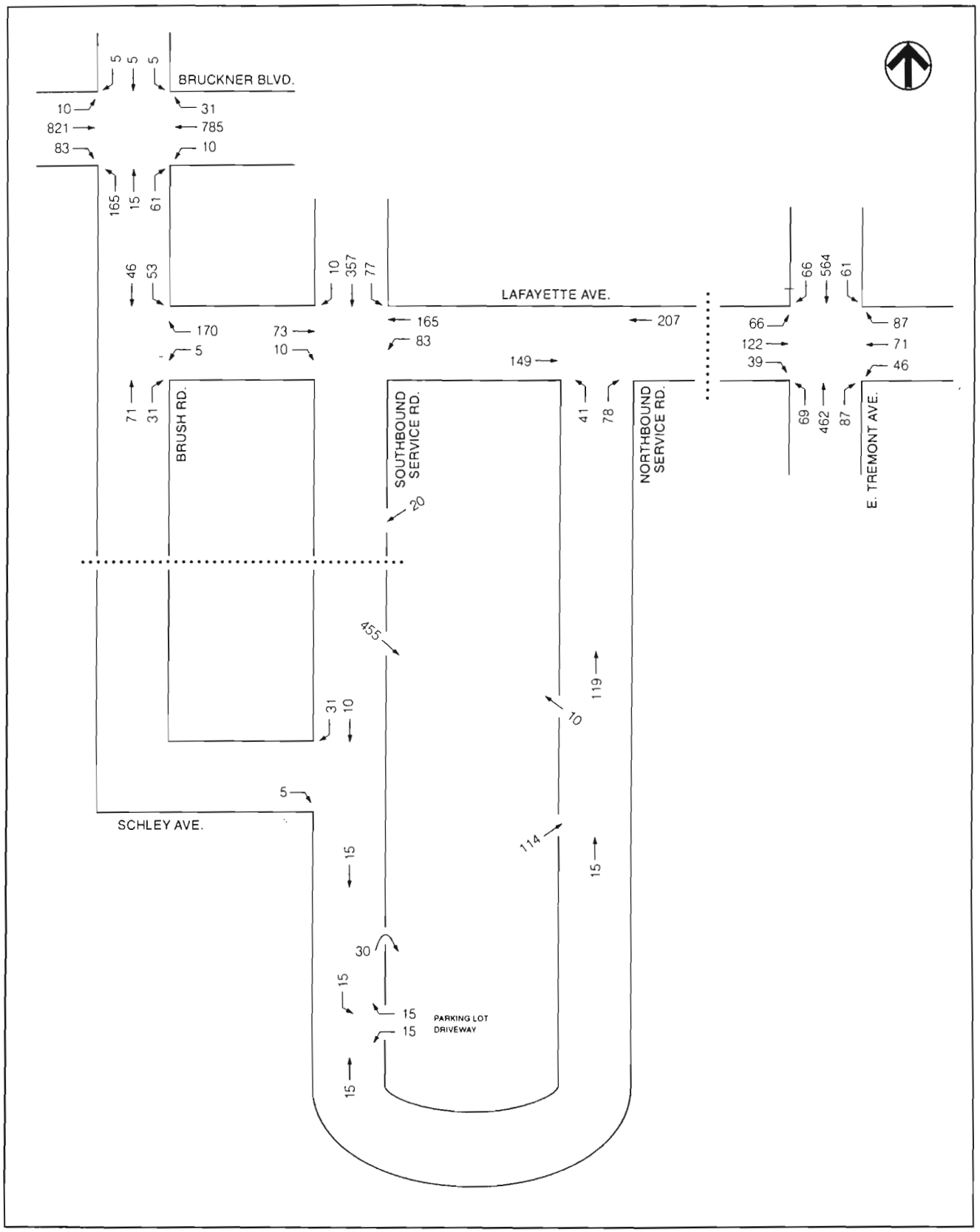

Not to Scale

2002 No Build Traffic Volumes • Saturday Midday Peak Hour

Ferry Point Park

Figure J-7

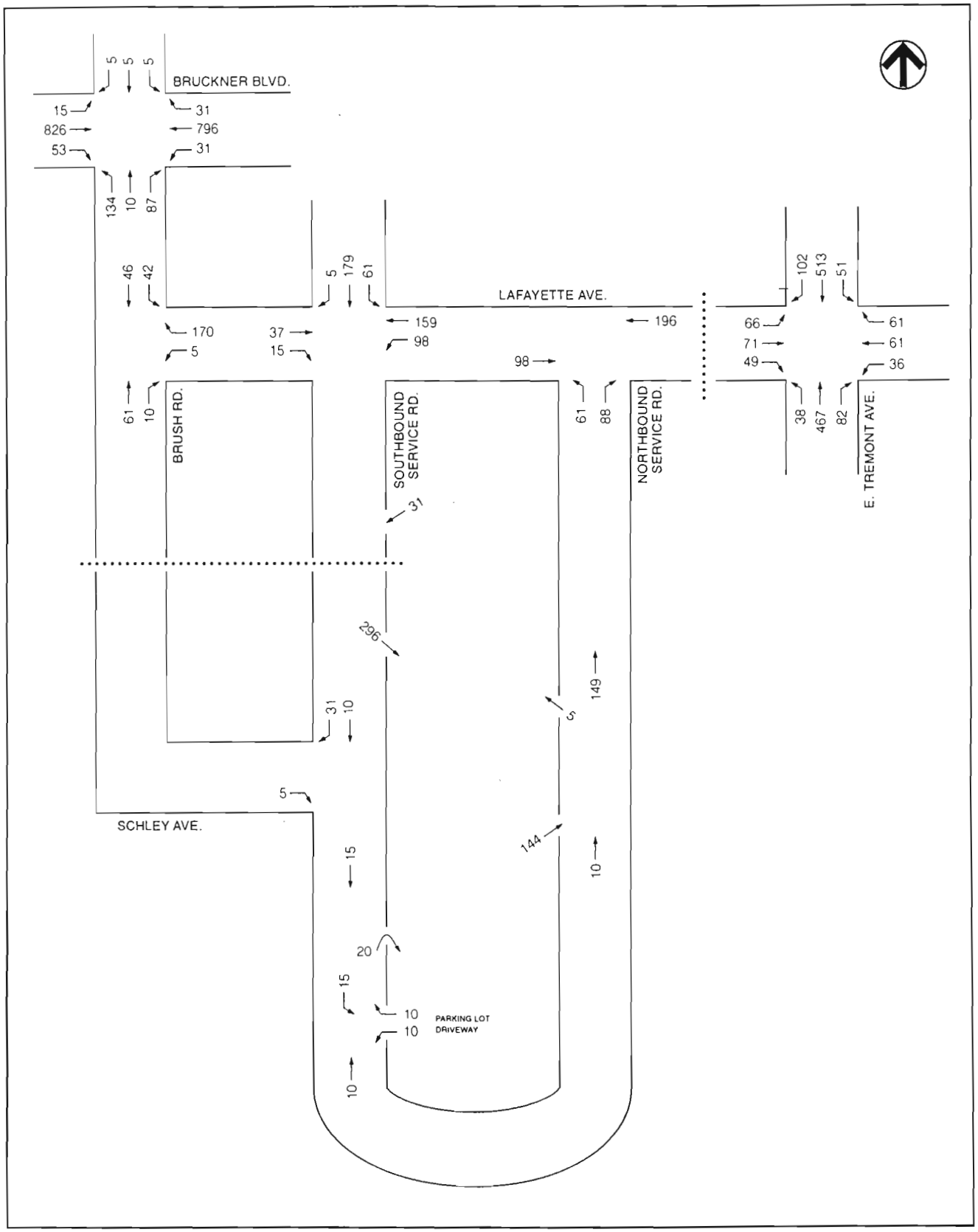

Not to Scale

2002 No Build Traffic Volumes • Saturday PM Peak Hour

Ferry Point Park

Figure J-8

Table J-5
Vehicle Trip Generation

Proposed Program	
Fine Dining/Banquet Facility	1,000 seats
Boathouse Grill	400 seats
Golf Course	18 holes
Driving Range	100 stalls
Waterfront Park	19.5 acres
Community Park	7 acres

Trip Generation Rates	
Fine Dining/Banquet Facility[1] and Boathouse Grill[2]	
Weekday PM Peak	T = 0.404(X) - 31.482
Saturday Midday and PM Peaks	T = 0.384(X) - 16.724
Golf Course[3]	
Weekday PM Peak	3.56 vehicle trips per hole
Saturday Midday and PM Peaks	4.59 vehicle trips per hole
Driving Range[3]	
Weekday PM Peak	1.25 vehicle trips per stall
Saturday Midday and PM Peaks	0.80 vehicle trips per stall
Waterfront Park/Community Park[4]	
Weekday PM Peak	N/A
Saturday Midday and PM Peaks	N/A

Directional Distribution		
	Percent	
	In	Out
Fine Dining/Banquet Facility[1] and Boathouse Grill[2]		
Weekday Midday Peak and Saturday Midday Peaks	59%	41%
Saturday PM Peak	100	0
Golf Course[3]		
Weekday Midday Peak	43	57
Saturday Midday and PM Peaks	49	51
Driving Range[3]		
Weekday Midday Peak	42	58
Saturday Midday and PM Peaks	54	46
Waterfront Park/Community Park[4]		
Weekday Midday Peak	24	76
Saturday Midday Peak	34	66
Saturday PM Peak	15	85

Vehicle Trips by Peak									
	Weekday PM			Saturday Midday			Saturday PM		
Use	In	Out	Total	In	Out	Total	In	Out	Total
Fine Dining/Banquet Facility [1]	370	0	370	218	152	370	370	0	370
Boathouse Grill[2]	58	40	98	31	21	52	61	42	102
Golf Course/Driving Range[3]	68	91	159	72	71	143	72	71	143
Waterfront Park/Community Park[4]	6	19	25	13	25	38	7	31	38
TOTAL	502	150	652	334	269	603	510	144	654

Notes:

[1] *ITE Trip Generation Manual Sixth Edition* rate for "Quality Restaurant" (Use 831). Assumes equal trip generation for Saturday afternoon and Saturday evening events.

[2] *ITE Trip Generation Manual Sixth Edition* rate for "Quality Restaurant" (Use 831). Assumes 15 percent linkage from other project uses. The Saturday midday peak hour vehicle trips are assumed to be 50 percent of Saturday evening peak trips.

[3] *ITE Trip Generation Manual Sixth Edition* rate for "Golf Course" (Use 430) and "Golfing Range" (Use 432). Assumes equal trip generation for Saturday afternoon and Saturday evening peak periods. Assumes 25 percent linkage between driving range and golf course.

[4] Surveys conducted at existing Ferry Point Park (west of the Bronx-Whitestone Bridge) May 1999 by Allee King Rosen & Fleming.

TRAFFIC CONDITIONS

Figures J-12 through J-14 show the Build conditions vehicle trips for the weekday PM, Saturday midday, and Saturday PM peak hours. Tables J-6 and J-7 present a comparison of No Build and Build service conditions for the study area's signalized and unsignalized intersections.

Impacts are considered significant (and require examination of improvement measures) according to the guidelines presented in the *CEQR Technical Manual* if they result in an increase of 5 or more seconds in a lane group if the No Build LOS is D. For No Build LOS E, 4 seconds of delay is considered significant. For No Build LOS F, 3 seconds of delay is considered significant. However, if No Build LOS F condition already has delays in excess of 120 seconds, an increase of more than 1.0 second of delay is considered significant unless the proposed action generates fewer than five vehicle-trips through that intersection in the peak hour. Additionally, if the traffic analyses indicate that future No Build v/c ratios below 0.95 are projected to increase to more than 0.95, or where future No Build v/c ratios above 0.95 are expected to increase by 0.020 or more at locations where acceptable levels of service are projected to occur in the future Build condition, additional analyses should be conducted to determine how close the projected project's increment is to creating a significant impact. These analyses should consist of determining how much additional traffic at that analysis location would cause the LOS to deteriorate from its projected acceptable level of service to unacceptable LOS D. This incremental volume represents the "buffer" available to the New York City Department of Transportation before it may need to consider capacity improvements.

In addition, impacts are also considered significant if levels of service deteriorate from acceptable LOS A, B, or C in the future No Build condition to unacceptable LOS D, E, or F in the Build condition.

With the proposed project improvements, increases in traffic volumes at study area intersections would not generate any significant impacts at the study area intersections (see Tables J-6 and J-7). These project improvements include:

- At the intersection Lafayette Avenue and the I-678 southbound service road, the restriping of the westbound approach from two lanes to three lanes (an exclusive left-turn lane and two through lanes), the addition of an exclusive left turn phase, and coordination of the westbound signal with the intersection of Lafayette Avenue and the I-678 northbound service road. Signal coordination would ensure that left-turn queues can be accommodated within available storage capacity.
- At the intersection of East Tremont Avenue and Lafayette Avenue, daylight (restrict the use of up to three parking spaces) at the northbound approach during the weekday PM peak period.

The study area intersections would operate at LOS C or better in Build conditions.

SITE ACCESS

Project-generated vehicle trips would access the site from a new entrance road off the Ferry Point Park Access Road. In Build conditions, the two-way segment of the Ferry Point Park Access Road would be changed to a two-lane, one-way loop road operating in the southbound direction west of the Bronx-Whitestone Bridge and in the northbound direction east of the bridge. With the exception of the community park, all access to the proposed recreation facility would be from the west—vehicular, bicycle, and pedestrian access would be from the I-678

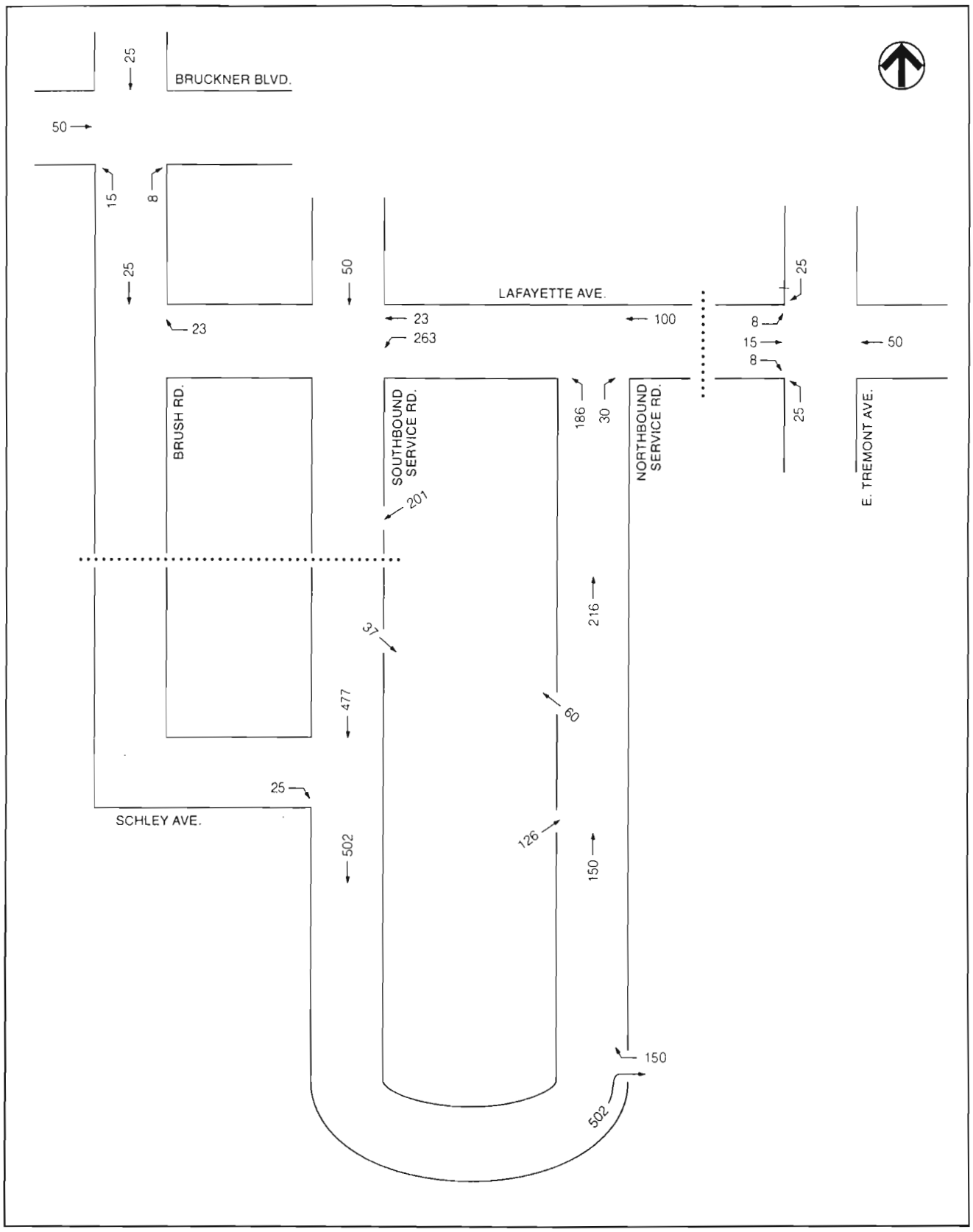

Not to Scale

Project Generated Traffic Volumes • Weekday PM Peak Hour

Ferry Point Park

Figure J-9

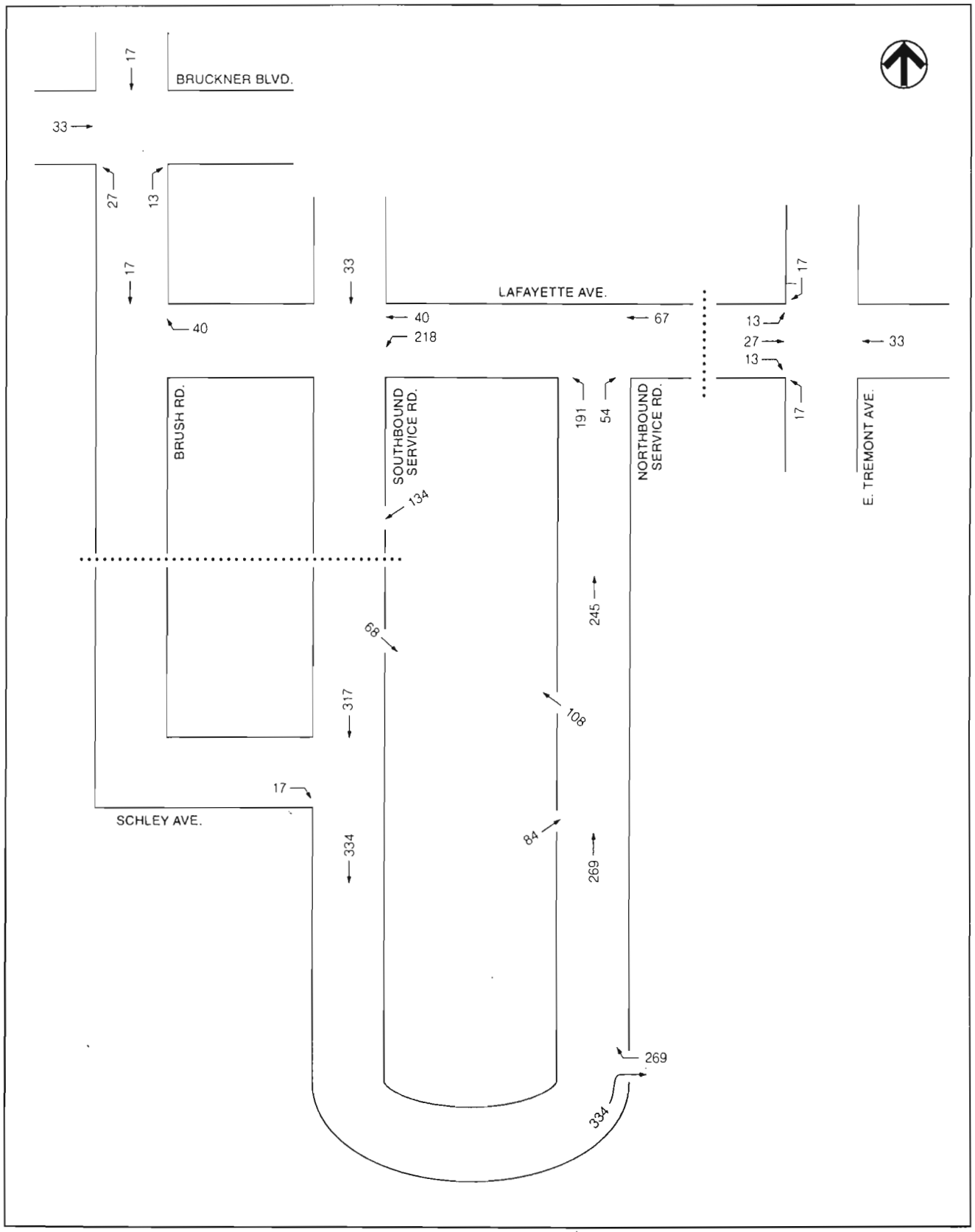

Not to Scale

Project Generated Traffic Volumes • Saturday Midday Peak Hour

Ferry Point Park

Figure J-10

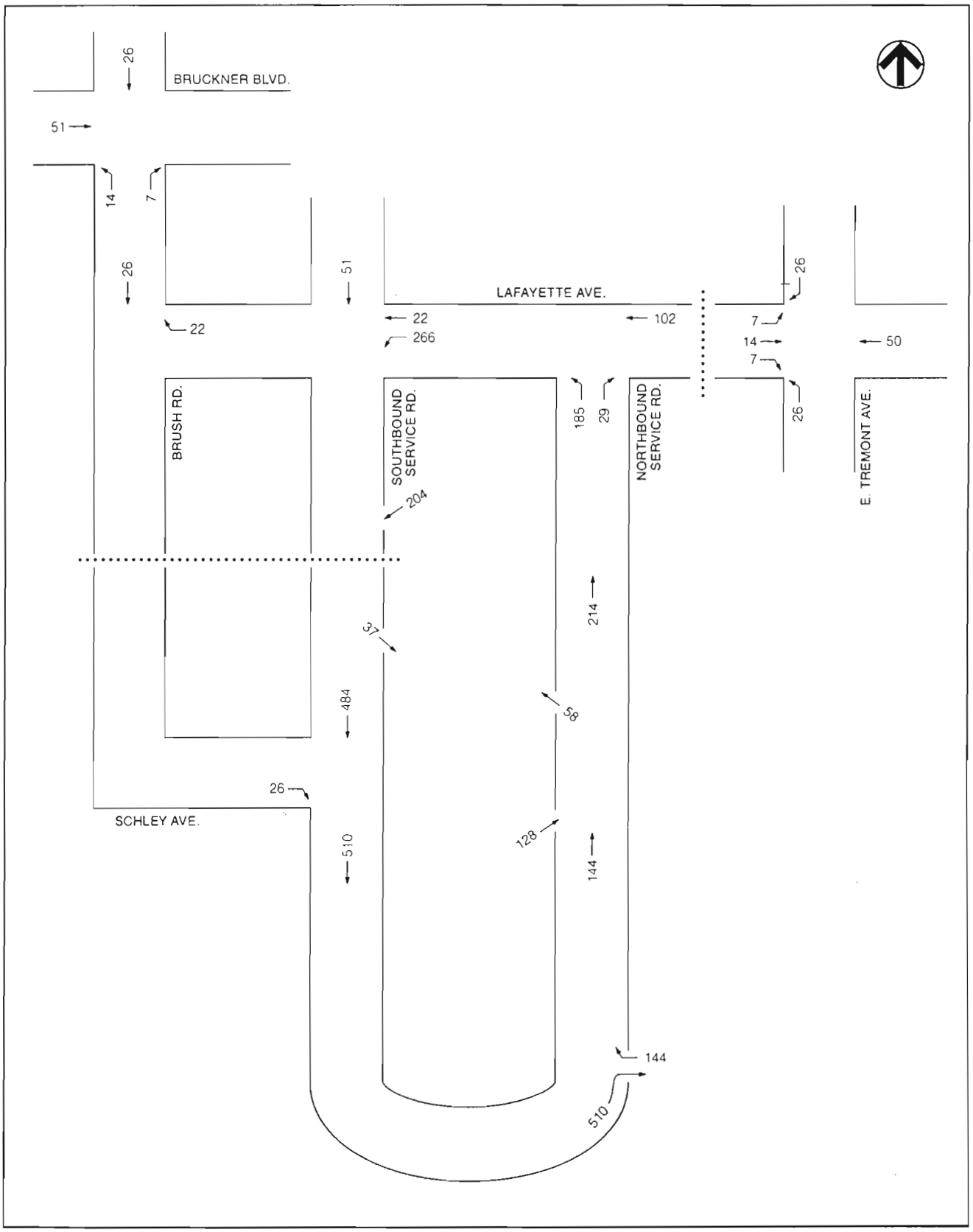

Not to Scale

Project Generated Traffic Volumes • Saturday PM Peak Hour

Ferry Point Park

Figure J-11

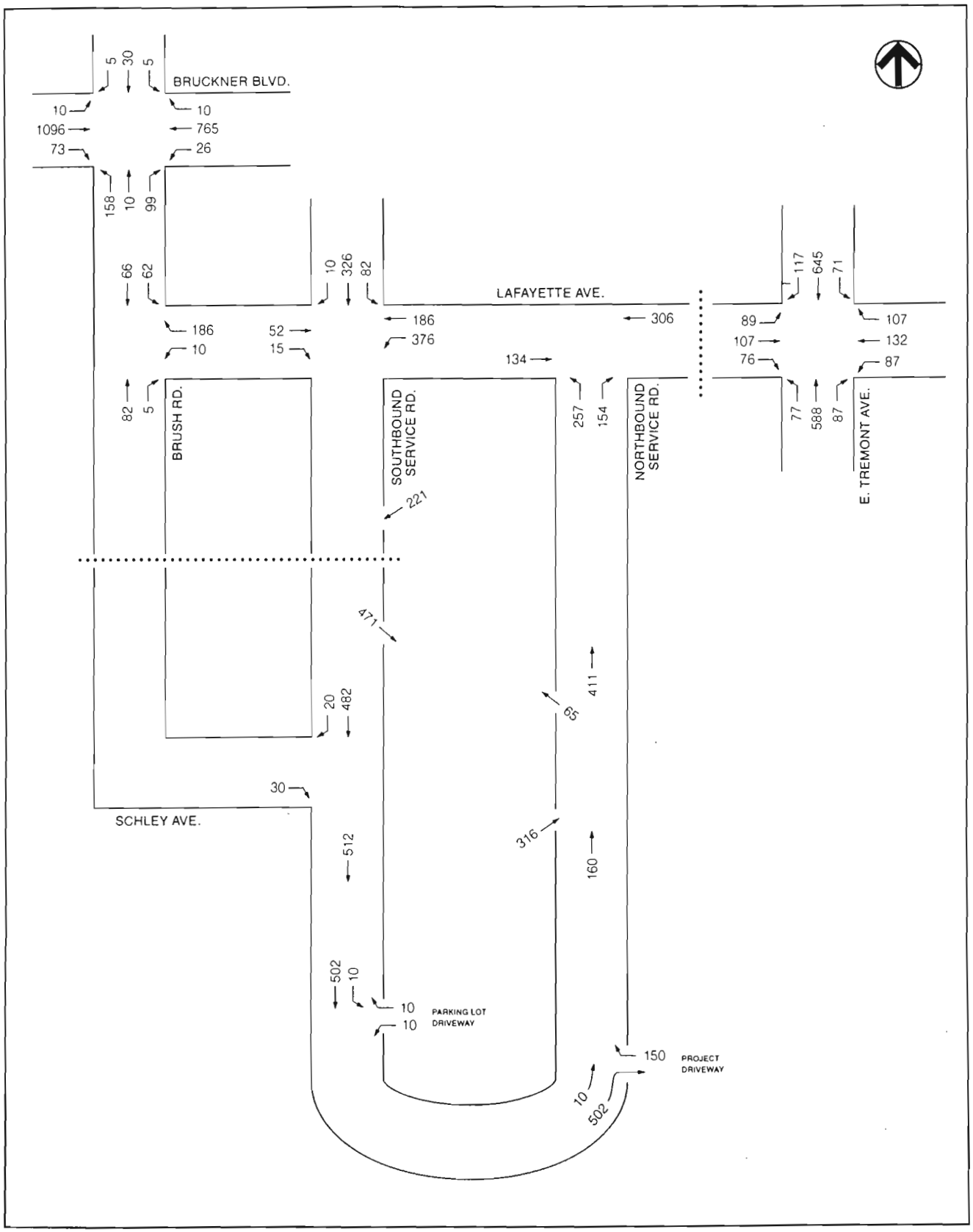

Not to Scale

2002 Build Traffic Volumes • Weekday PM Peak Hour

Ferry Point Park

Figure J-12

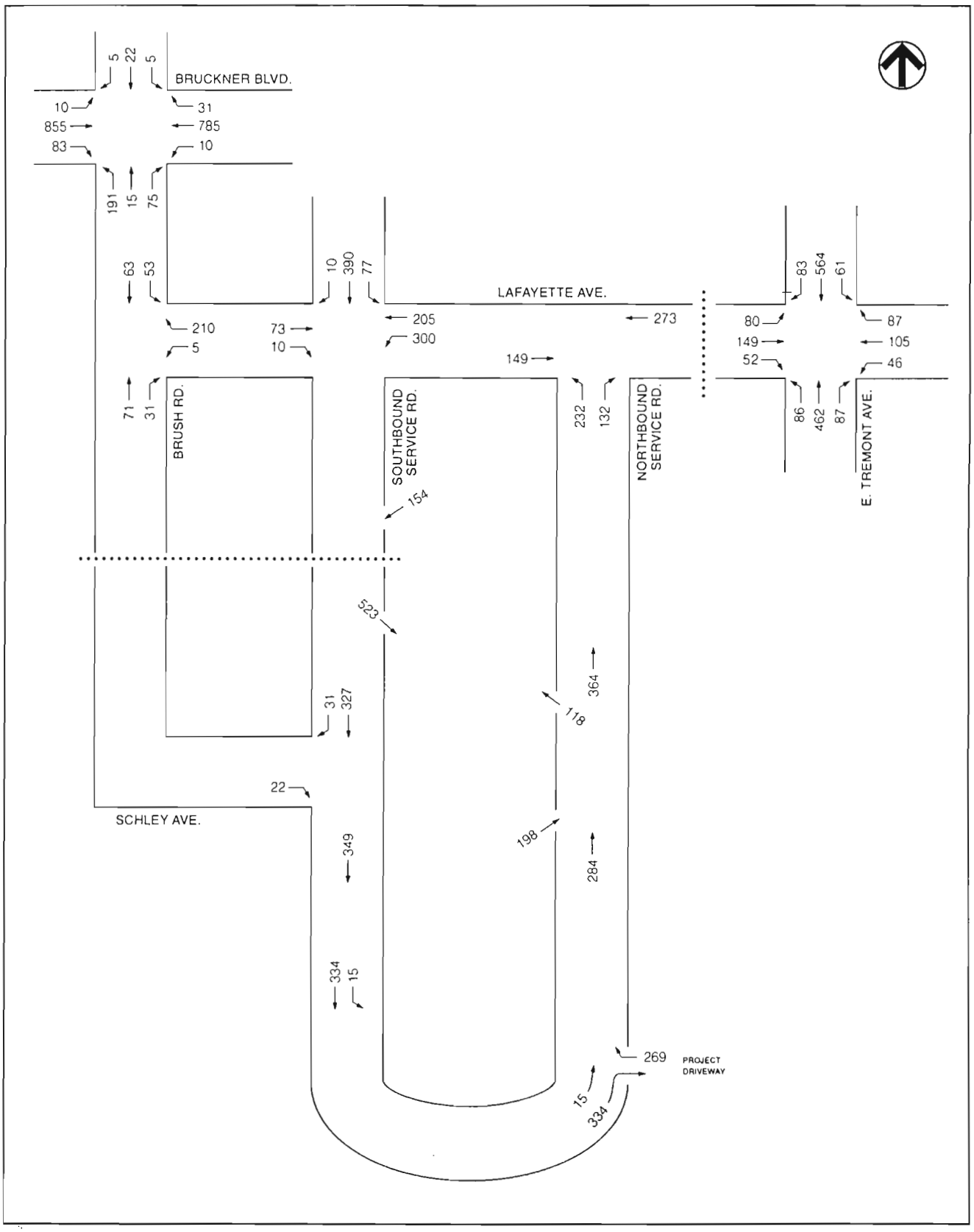

Not to Scale

2002 Build Traffic Volumes • Saturday Midday Peak Hour

Ferry Point Park

Figure J-13

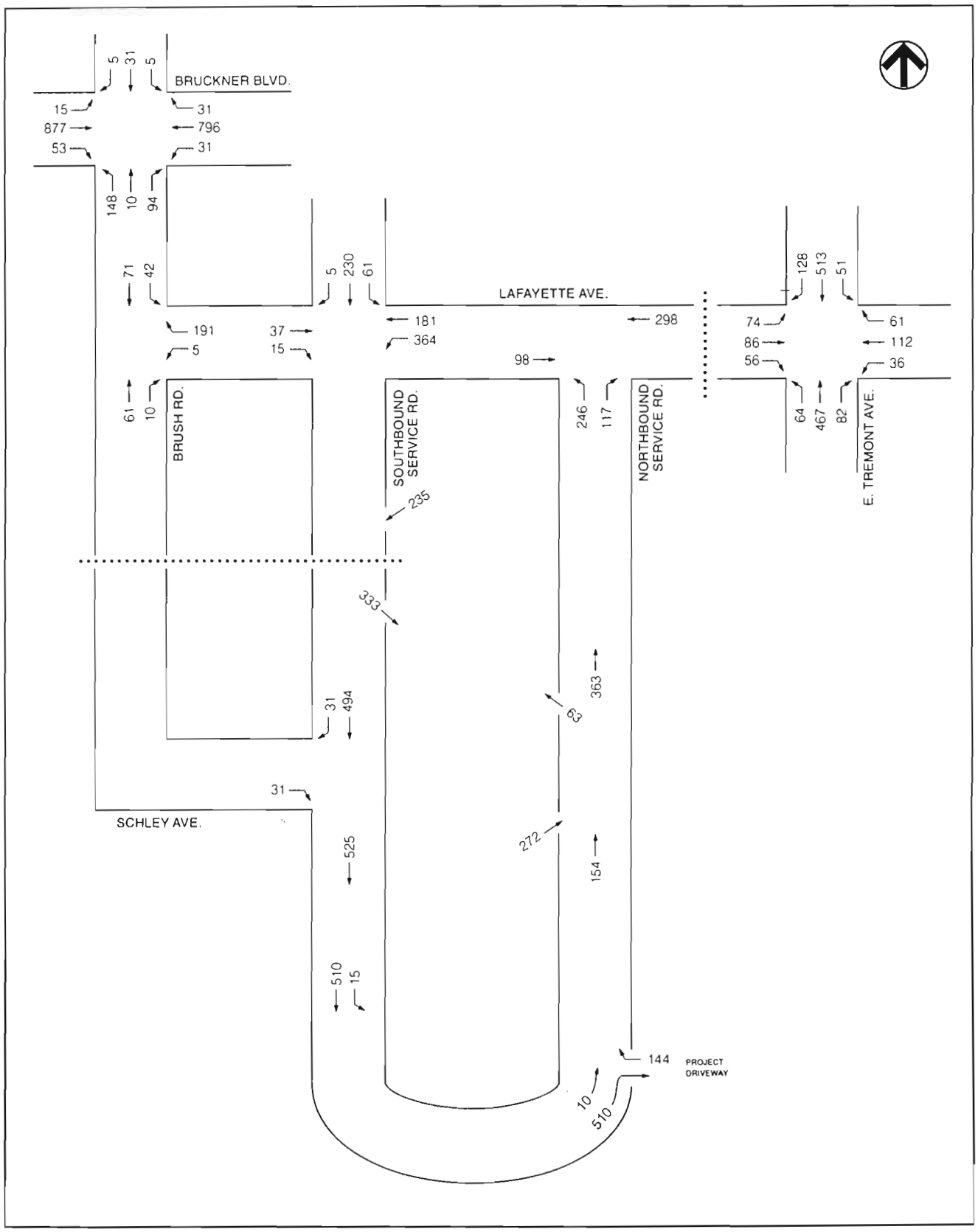

Not to Scale

2002 Build Traffic Volumes • Saturday PM Peak Hour

Ferry Point Park

Figure J-14

Table J-6
Signalized Intersections:
2002 No Build and Build Conditions Level of Service Analyses

Intersection	Weekday PM															
	No Build								Build							
	Lane Group	V/C Ratio	Delay (seconds)	LOS	Approach Delay	Approach LOS	Intersection Delay	Intersection LOS	Lane Group	V/C Ratio	Delay (seconds)	LOS	Approach Delay	Approach LOS	Intersection Delay	Intersection LOS
BRUCKNER BOULEVARD & BRUSH AVENUE																
Eastbound	LTR	0.624	10.9	B	10.9	B	11.9	B	LTR	0.650	11.3	B	11.3	B	12.4	B
Westbound	DfL	0.423	11.1	B	9.8	B			DfL	0.430	11.3	B	9.8	B		
	TR	0.525	9.8	B					TR	0.525	9.8	B				
Northbound	DfL	0.419	24.5	C	24.1	C			DfL	0.505	25.9	D	25.1	D		
	TR	0.340	23.6	C					TR	0.365	23.9	C				
Southbound	DfL	0.021	20.9	C	21.0	C			LTR	0.061	21.2	C	21.2	C		
	TR	0.030	21.0	C												
LAFAYETTE AVENUE & BRUSH AVENUE																
Westbound	L	0.016	4.7	A	5.2	B	8.2	B	L	0.016	4.7	A	5.3	B	8.2	B
	R	0.205	5.2	B					R	0.241	5.4	B				
Northbound	TR	0.134	10.1	B	10.1	B			TR	0.134	10.1	B	10.1			
Southbound	DfL	0.223	10.5	B	10.3	B			DfL	0.223	10.5	B	10.4			
	T	0.108	10.0	B					T	0.172	10.3	B				
LAFAYETTE AVENUE & I-678 SB SERVICE ROAD (1)																
Eastbound	T	0.043	6.9	B	6.9	B	12.6	B	T	0.051	10.0	B	10.0	B	9.3	B
Westbound	LT	0.242	7.8	B	7.8	B			L	0.686	2.9	A	2.3	A		
									T	0.142	1.2	A				
Southbound	LTR	0.490	16.6	C	16.6	C			LTR	0.554	17.3	C	17.3	C		
LAFAYETTE AVENUE & I-678 NB SERVICE ROAD																
Eastbound	T	0.097	6.8	B	6.8	B	6.4	B	T	0.097	6.8	B	6.8	B	11.1	B
Westbound	T	0.148	7.0	B	7.0	B			T	0.221	7.4	B	7.4	B		
Northbound	L	0.209	14.9	B	5.5	B			L	0.754	24.2	C	15.2	C		
	R	0.133	0.0	A					R	0.166	0.0	A				
LAFAYETTE AVENUE & EAST TREMONT AVENUE (2)																
Eastbound	LTR	0.589	18.6	C	18.6	C	29.6	D	LTR	0.693	20.8	C	20.8	C	23.0	C
Westbound	LTR	0.583	18.5	C	18.5	C			LTR	0.684	20.6	C	20.6	C		
Northbound	LTR	0.991	36.7	D	36.7	D			LT	0.907	23.0	C	21.2	C		
									R	0.148	7.0	B				
Southbound	LTR	0.975	31.6	D	31.6	D			LTR	0.949	26.5	D	26.5	D		

Notes:
(1) The analysis of Build Conditions at this intersection includes improvements to be implemented as part of the proposed project (addition of a westbound exclusive left turn lane, westbound leading phase, and coordination of signal timing with the intersection of Lafayette Avenue and the I-678 Northbound Service Road)
(2) The analysis of Build Conditions at this intersection includes improvements to be implemented with the proposed project (daylighting).

Table J-6 (continued)
Signalized Intersections:
2002 No Build and Build Conditions Level of Service Analyses

Intersection	Saturday Midday															
	No Build								Build							
	Lane Group	V/C Ratio	Delay (seconds)	LOS	Approach Delay	Approach LOS	Intersection Delay	Intersection LOS	Lane Group	V/C Ratio	Delay (seconds)	LOS	Approach Delay	Approach LOS	Intersection Delay	Intersection LOS
BRUCKNER BOULEVARD & BRUSH AVENUE																
Eastbound	LTR	0.505	9.5	B	9.5	B	11.2	B	LTR	0.523	9.7	B	9.7	B	11.9	B
Westbound	LTR	0.444	9.0	B	9.0	B			LTR	0.448	9.0	B	9.0	B		
Northbound	DfL	0.516	25.9	D	24.9	C			DfL	0.634	28.6	D	26.9	D		
	TR	0.260	22.8	C					TR	0.311	23.3	C				
Southbound	DfL	0.018	20.9	C	20.9	C			LTR	0.048	21.1	C	21.1	C		
	TR	0.029	21.0	C												
LAFAYETTE AVENUE & BRUSH AVENUE																
Westbound	L	0.008	4.6	A	5.1	B	8.2	B	L	0.008	4.6	A	5.3	B	8.0	B
	R	0.187	5.2	B					R	0.245	5.4	B				
Northbound	TR	0.139	10.1	B	10.1	B			TR	0.139	10.1	B	10.1	B		
Southbound	DfL	0.162	10.2	B	10.1	B			DfL	0.162	10.2	B	10.2	B		
	T	0.103	10.0	B					T	0.139	10.1	B				
LAFAYETTE AVENUE & I-678 SB SERVICE ROAD (1)																
Eastbound	T	0.056	7.0	B	7.0	B	12.6	B	T	0.067	10.0	B	10.0	B	9.1	B
Westbound	LT	0.196	7.6	B	7.6	B			L	0.518	1.8	A	1.6	A		
									T	0.142	1.2	A				
Southbound	LTR	0.486	16.5	C	16.5	C			LTR	0.519	16.9	C	16.9	C		
LAFAYETTE AVENUE & I-678 NB SERVICE ROAD																
Eastbound	T	0.123	6.9	B	6.9	B	6.5	B	T	0.123	6.9	B	6.9	B	10.4	B
Westbound	T	0.155	7.0	B	7.0	B			T	0.205	7.3	B	7.3	B		
Northbound	L	0.125	14.4	B	5.0	A			L	0.704	22.0	C	14.0	B		
	R	0.087	0.0	A					R	0.147	0.0	A				
LAFAYETTE AVENUE & EAST TREMONT AVENUE																
Eastbound	LTR	0.362	16.0	C	16.0	C	12.7	B	LTR	0.461	16.9	C	16.9	C	13.8	B
Westbound	LTR	0.306	15.5	C	15.5	C			LTR	0.355	15.9	C	15.9	C		
Northbound	LTR	0.710	12.5	B	12.5	B			LTR	0.776	14.5	B	14.5	B		
Southbound	LTR	0.641	10.9	B	10.9	B			LTR	0.664	11.3	B	11.3	B		

Notes:
(1) The analysis of Build Conditions at this intersection includes improvements to be implemented as part of the proposed project (addition of a westbound exclusive left turn lane, westbound leading phase, and coordination of signal timing with the intersection of Lafayette Avenue and the I-678 Northbound Service Road)

Table J-6 (continued)
Signalized Intersections:
2002 No Build and Build Conditions Level of Service Analyses

Intersection	Saturday PM															
	No Build								Build							
	Lane Group	V/C Ratio	Delay (seconds)	LOS	Approach Delay	Approach LOS	Intersection Delay	Intersection LOS	Lane Group	V/C Ratio	Delay (seconds)	LOS	Approach Delay	Approach LOS	Intersection Delay	Intersection LOS
BRUCKNER BOULEVARD & BRUSH AVENUE																
Eastbound	LTR	0.512	9.6	B	9.6	B	11.1	B	LTR	0.539	9.9	B	9.9	B	11.6	B
Westbound	LTR	0.490	9.4	B	9.4	B			LTR	0.499	9.5	B	9.5	B		
Northbound	DfL	0.384	24.1	C	23.7	C			DfL	0.461	25.1	D	24.5	C		
	TR	0.310	23.3	C					TR	0.333	23.5	C				
Southbound	DfL	0.020	20.9	C	21.0	C			LTR	0.058	21.2	C	21.2	C		
	TR	0.029	21.0	C												
LAFAYETTE AVENUE & BRUSH AVENUE																
Westbound	L	0.008	4.6	A	5.1	B	8.0	B	L	0.008	4.6	A	5.2	B	8.2	B
	R	0.187	5.2	B					R	0.217	5.3	B				
Northbound	TR	0.104	10.0	B	10.0	B			TR	0.104	10.0	B	10.0			
Southbound	DfL	0.153	10.2	B	10.1	B			LT	0.195	10.4	B	10.4			
	T	0.129	10.1	B												
LAFAYETTE AVENUE & I-678 SB SERVICE ROAD (1)																
Eastbound	T	0.033	6.9	B	6.9	B	11.4	B	T	0.040	9.9	B	9.9	B	7.7	B
Westbound	LT	0.224	7.7	B	7.7	B			L	0.654	2.6	A	2.1	A		
									T	0.142	1.2	A				
Southbound	LTR	0.358	15.4	C	15.4	C			LTR	0.429	16.0	C	16.0	C		
LAFAYETTE AVENUE & I-678 NB SERVICE ROAD																
Eastbound	T	0.084	6.7	B	6.7	B	6.6	B	T	0.084	6.7	B	6.7	B	10.1	B
Westbound	T	0.140	7.0	B	7.0	B			T	0.214	7.3	B	7.3	B		
Northbound	L	0.157	14.6	B	5.9	B			L	0.638	20.1	C	13.6	B		
	R	0.084	0.0	A	0.0	0.0			R	0.111	0.0	A				
LAFAYETTE AVENUE & EAST TREMONT AVENUE																
Eastbound	LTR	0.343	15.8	C	15.8	C	11.9	B	LTR	0.411	16.4	C	16.4	C	13.1	B
Westbound	LTR	0.272	15.3	C	15.3	C			LTR	0.351	15.9	C	15.9	C		
Northbound	LTR	0.619	10.7	B	10.7	B			LTR	0.718	12.7	B	12.7	B		
Southbound	LTR	0.629	10.7	B	10.7	B			LTR	0.664	11.3	B	11.3	B		

Notes:
(1) The analysis of Build Conditions at this intersection includes improvements to be implemented as part of the proposed project (addition of a westbound exclusive left turn lane, westbound leading phase, and coordination of signal timing with the intersection of Lafayette Avenue and the I-678 Northbound Service Road)

Table J-7
Unsignalized Intersections:
2002 No Build and Build Conditions Level of Service Analysis

Intersection	Lane Group	Weekday PM			
		No Build		Build	
		Lane Group		Lane Group	
		Delay (seconds)	LOS	Delay (seconds)	LOS
I-678 SB SERVICE ROAD & SCHLEY AVENUE					
Eastbound	R	2.7	A	3.7	A
PARK ACCESS ROAD & PROJECT ENTRANCE ROAD					
Westbound	R	Entrance road does not exist in No Build		4.3	A

Table J-7 (continued)
Unsignalized Intersections:
2002 No Build and Build Conditions Level of Service Analysis

Intersection	Lane Group	Saturday Midday			
		No Build		Build	
		Lane Group		Lane Group	
		Delay (seconds)	LOS	Delay (seconds)	LOS
I-678 SB SERVICE ROAD & SCHLEY AVENUE					
Eastbound	R	2.7	A	3.4	A
PARK ACCESS ROAD & PROJECT ENTRANCE ROAD					
Westbound	R	Entrance road does not exist in No Build		4.5	A

Table J-7 (continued)
Unsignalized Intersections:
2002 No Build and Build Conditions Level of Service Analysis

Intersection	Lane Group	Saturday PM			
		No Build		Build	
		Lane Group		Lane Group	
		Delay (seconds)	LOS	Delay (seconds)	LOS
I-678 SB SERVICE ROAD & SCHLEY AVENUE					
Eastbound	R	2.7	A	3.9	A
PARK ACCESS ROAD & PROJECT ENTRANCE ROAD					
Westbound	R	Entrance road does not exist in No Build		4.3	A

service roads under the Bronx-Whitestone Bridge and onto the crescent road. With the exception of the community park, the proposed recreation facilities would be primarily a regional park. Visitors would enter the site at this location, pass by a stone gateway on the entrance road, and choose to either proceed north to the golf clubhouse area, or south to the community park and the boathouse grill, waterfront park, or fine dining/banquet facility. Access for emergency vehicles would be provided via Emerson Avenue. A stop-controlled entrance road with one lane in each direction would provide access to public recreation facility at the southeastern portion of the site. As shown in Table J-7, the proposed project entrance road would operate at LOS A or better during the weekday PM, Saturday midday, and Saturday PM peak periods.

PARKING

Parking would be provided throughout the facility to accommodate park users as shown in Table J-8. The project would provide a total of 965 spaces, including 20 self-park spaces for maintenance vehicles only. The balance of the 945 spaces would include 350 spaces near the fine dining/banquet facility, 350 spaces near the clubhouse, 125 spaces near the boathouse grill, and 120 spaces in other parking lots at the site. During peak hours of operation at the banquet facility, the 350 self-park spaces could be utilized as 500 valet parking spaces. There would be sufficient parking on the project site to accommodate project demand.

Table J-8

Parking by Location and Use

Parking Location and Use	Number of Spaces
Golf facility	350 self-park
Boathouse grill restaurant	125 self-park
Waterfront park	120 self-park
Fine dining/banquet facility	350 self-park convertible to 500 valet-park
Maintenance building	20 self-park for staff only
Total	965 self-park (1,115 self/valet-park)

PUBLIC TRANSPORTATION

With completion of the proposed project, the addition of a proposed bus stop with a shelter at the intersection of Schley Avenue and the I-678 southbound service road would be proposed to serve park users. This effort will be coordinated with NYCT. The most likely route to serve this stop is the Q44 bus.

PEDESTRIANS AND BICYCLES

As part of the proposed project, sidewalks on the Ferry Point Park access road would be improved for pedestrian access and safety to the public recreation facilities. Pedestrian and bicycle connections would connect the proposed waterfront park with the existing Ferry Point Park located to the west of the bridge. In addition, pedestrians and bicyclists would be able to access the project site through the same entrance road as vehicles and continue on to the crescent road. Bicycle racks would be provided in the waterfront park.

E. CONCLUSIONS

Based on the analysis above, with the proposed improvements, the proposed development of a public recreation facility is not expected to result in any significant impacts to traffic, parking, transit, pedestrian, or bicycle conditions in the study area. ❖

A. INTRODUCTION

This section identifies and quantifies all the significant direct and indirect air quality impacts from the proposed public recreation facility at Ferry Point Park in the Bronx. Direct effects stem from emissions generated by stationary sources on the project site, such as emissions from fuel burned on-site for heating, ventilation, and air conditioning (HVAC) systems. Indirect effects are caused by emissions from motor vehicles traveling to and from the project site (mobile sources) after completion.

B. POLLUTANTS FOR ANALYSIS

In New York City, ambient concentrations of carbon monoxide (CO), ozone (O_3), and lead are predominantly influenced by mobile source emissions. Emissions of nitrogen oxides (NO_x) come from both mobile and stationary sources, and emissions of respirable particulate matter and sulfur dioxide (SO_2) are associated mainly with stationary sources.

While the project site is a former landfill, no detailed air quality studies were performed to model methane concentrations since methane was not detected in the ambient air during a landfill gas survey conducted as part of the project's soil assessment (see Attachment G, "Hazardous Materials," Section 3.2), and more importantly, the proposed project would not change the quantity of this area-wide pollutant emitted from this site..

CARBON MONOXIDE

Carbon monoxide, a colorless and odorless gas, is produced in the urban environment primarily by the incomplete combustion of gasoline and other fossil fuels. In New York City, approximately 80 to 90 percent of CO emissions are from motor vehicles. CO concentrations can vary greatly over relatively short distances. Elevated concentrations are usually limited to locations near crowded intersections, along heavily traveled and congested roadways. Consequently, CO concentrations must be predicted on a localized or microscale basis. The proposed project would increase traffic volumes on streets near the project site and could therefore result in localized increases in CO levels.

NITROGEN OXIDES AND OZONE

Nitrogen oxides are of principal concern because of their role as precursors in the formation of photochemical oxidants, such as ozone. There is a standard for average annual concentrations, which is normally examined only for fossil fuel energy sources. Ozone is formed through a series of reactions that take place in the atmosphere in the presence of sunlight. Because the reactions are slow and occur as the pollutants are diffusing downwind, elevated ozone levels are often found many miles from sources of the precursor pollutants. The effects of nitrogen oxide emissions from mobile sources are therefore generally examined on a regional basis. The change in regional mobile source emissions of these pollutants is related to the total number of vehicle

trips and vehicle miles of travel throughout the New York metropolitan area. The proposed action would not have a significant effect on the overall volume of vehicular travel in the metropolitan area. It would not, therefore, have any measurable impact on regional nitrogen oxide emissions or on ozone levels, and an analysis is not warranted.

LEAD

Lead emissions are principally associated with industrial sources and motor vehicles that use gasoline containing lead additives. Most U.S. vehicles produced since 1975, and all produced after 1980, are designed to use unleaded fuel. As these newer vehicles have replaced the older ones, motor vehicle-related lead emissions have decreased. As a result, ambient concentrations of lead have declined significantly. Nationally, the average measured atmospheric lead level in 1985 was only about one-quarter the level in 1975.

In 1985, the U.S. Environmental Protection Agency (EPA) announced new rules drastically reducing the amount of lead permitted in leaded gasoline. The maximum allowable lead level in leaded gasoline was reduced from the previous limit of 1.1 grams per gallon to 0.5 grams per gallon effective July 1, 1985, and to 0.1 grams per gallon effective January 1, 1986. Monitoring results indicate that this action has been effective in significantly reducing atmospheric lead levels. Even at locations in the New York City area where traffic volumes are very high, atmospheric lead concentrations are far below the national standard of 1.5 micrograms per cubic meter (three-month average). No significant sources of lead are associated with the project.

RESPIRABLE PARTICULATES—PM_{10} AND $PM_{2.5}$

Particulate matter is emitted into the atmosphere from a variety of sources: industrial facilities, power plants, construction activity, etc. Gasoline-powered vehicles do not produce any significant quantities of particulate emissions. Diesel-powered vehicles, especially heavy trucks and buses, do emit particulates, and respirable particulate concentrations may, therefore, be locally elevated near roadways with high volumes of heavy diesel-powered vehicles. Particulates less than 10 microns (μm) in diameter (PM_{10}) have become of primary concern because they are respirable. In addition to PM_{10}, EPA has determined that elevated airborne levels of particulate matter less than 2.5 microns ($PM_{2.5}$), show consistent and coherent associations with serious health effects. The project would not be a significant source of increased regional vehicular trips or local diesel vehicle trips, and therefore, an analysis for respirable particulates was not warranted.

SULFUR DIOXIDE

Sulfur dioxide emissions are primarily associated with the combustion of sulfur-containing fuels: oil and coal. No significant quantities are emitted from mobile sources. Monitored sulfur dioxide concentrations in Bronx are below the national standards. If oil is burned for the on-site HVAC systems, sulfur dioxide would be included in the exhaust from such units.

CONCLUSIONS

The areas of potentially significant air quality impacts from the proposed project that require an analysis are the following:

- Effects of the proposed project on CO concentrations from increased traffic generated by the proposed project; and

- Potential stationary source impacts from the fuel burned on-site for the project's HVAC systems.

C. AIR QUALITY STANDARDS

NATIONAL AND STATE AIR QUALITY STANDARDS

As required by the Clean Air Act, primary and secondary National Ambient Air Quality Standards (NAAQS) have been established for six major air pollutants: carbon monoxide, nitrogen dioxide, ozone, respirable particulate matter, sulfur dioxide, and lead. (Hydrocarbon standards have been rescinded because these pollutants are primarily of concern only in their role as ozone precursors.) EPA has adopted 24-hour and annual standards for respirable particulate matter with an aerodynamic equivalent diameter less than 2.5 μm ($PM_{2.5}$), which became effective September 16, 1997. As recognized by EPA, the adoption of the $PM_{2.5}$ standard is intended to provide increased protection of public health from fossil fuel combustion. At this time, EPA is only requiring states to implement monitoring programs to determine the scope of the problem. It will likely be at least 5 years before any attainment/non-attainment designations are made and a few more years before any implementation plans are required.

Table K-1 shows the standards for these pollutants. These standards have also been adopted as the ambient air quality standards for the State of New York. The primary standards protect the public health, and represent levels at which there are no known significant effects on human health. The secondary standards are intended to protect the nation's welfare, and account for air pollutant effects on soil, water, visibility, materials, vegetation, and other aspects of the environment. For carbon monoxide, nitrogen dioxide, ozone, and respirable particulates, the primary and secondary standards are the same.

STATE IMPLEMENTATION PLAN (SIP)

The Clean Air Act requires each state to submit to EPA a SIP for attainment of NAAQS. The 1977 and 1990 amendments require comprehensive plan revisions for areas where one or more of the standards have yet to be attained. In the New York City metropolitan area, the standard for ozone continues to be exceeded as New York State Department of Environmental Conservation (DEC) is currently preparing a revision of the SIP. A CO attainment demonstration was submitted to EPA by DEC in November 1992. This submission noted that, with an Enhanced Inspection and Maintenance program in effect, there would be no CO violations in New York City by the December 31, 1995 attainment deadline. No violations of the CO standard have been recorded at DEC monitoring stations over the past few years. Recently, however, EPA designated New York County (Manhattan) non-attainment for respirable particulate matter (PM_{10}). In 1995, a SIP revision and Attainment Demonstration was submitted to EPA for the control of PM_{10} concentrations in New York County.

New York City is implementing measures to reduce levels of hydrocarbons as part of its effort to attain the SIP ozone standard. As part of its effort to reduce CO levels and attain the CO standard, New York City is also committed to implementing area-wide and site-specific control measures, should unanticipated localized growth result in elevated CO levels, both before the attainment deadline and into the maintenance period.

Table K-1

National and New York State Ambient Air Quality Standards

Pollutant	Primary		Secondary	
	PPM	Micrograms Per Cubic Meter	PPM	Micrograms Per Cubic Meter
Carbon Monoxide				
Maximum 8-Hour Concentration[1]	9		9	
Maximum 1-Hour Concentration[1]	35		35	
Lead				
Maximum Arithmetic Mean Averaged Over 3 Consecutive Months		1.5		1.5
Nitrogen Dioxide				
Annual Arithmetic Average	0.05	100	0.05	100
Ozone				
1-Hour Average[2]	0.12	235	0.12	235
8-Hour Average	0.08	157	0.08	157
Total Suspended Particulates (TSP)[3]				
Annual Mean		75		
Maximum 24-Hour Concentration		250		
Respirable Particulates (PM_{10})				
Annual Arithmetic Mean		50		50
Maximum 24-Hour Concentration[4]		150		150
Respirable Particulates ($PM_{2.5}$)				
Annual Arithmetic Mean		15		15
Maximum 24-Hour Concentration[5]		65		65
Sulfur Dioxide				
Annual Arithmetic Mean	0.03	80		
Maximum 24-Hour Concentration[1]	0.14	365		
Maximum 3-Hour Concentration[1]			0.50	1,300

Notes:

[1]Not to be exceeded more than once a year.
[2]Applies only to areas that were designated nonattainment when the ozone standard was adopted in July 1997.
[3]TSP levels are regulated by a New York State Standard only.
[4]Not to be exceeded by 99th percentile of 24-hour PM_{10} concentrations in a year (averaged over 3 years).
[5]Not to be exceeded by 98th percentile of 24-hour $PM_{2.5}$ concentrations in a year (averaged over 3 years).
PPM = parts per million

Sources:

40 CFR Part 50—National Primary and Secondary Ambient Air Quality Standards 40 CFR 50.12 "National Primary and Secondary Standard for Lead," 43 CFR 46245

DE MINIMIS CRITERIA

For all pollutants, project-related NAAQS exceedances generally constitute a significant impact. In addition to the NAAQS, New York City has developed *de minimis* criteria to assess the significance of impacts on air quality that would result from a proposed development. These criteria, as detailed in the *City Environmental Quality Review (CEQR) Technical Manual,* set the minimum change in CO concentration that defines a significant environmental impact. Significant increases with respect to CO concentrations in New York City are defined as 1) an increase of 0.5 parts per million (ppm) or more in the maximum 8-hour average CO concentration at a location where the predicted No Build 8-hour concentration is equal to or between 8 ppm and 9 ppm; or 2) an increase of more than half the difference between baseline concentrations and the 8-hour standard, when No Build concentrations are below 8.0 ppm.

D. METHODOLOGY FOR PREDICTING POLLUTANT CONCENTRATIONS FROM MOBILE SOURCES

INTRODUCTION

To compare estimated carbon monoxide concentrations with the national and state ambient air quality standards for carbon monoxide (which are based on 1- and 8-hour averages of carbon monoxide concentrations), estimates of maximum concentrations for these same periods must be prepared.

The prediction of motor vehicle-generated carbon monoxide concentrations in an urban environment influenced by meteorological phenomena, traffic conditions, and physical configurations is a challenging problem. Air pollutant dispersion models simulate mathematically how traffic, meteorology, and geometry combine to affect pollutant concentrations. The mathematical expressions and formulations that make up the various models attempt to describe an extremely complex physical phenomenon as closely as possible. However, because all models contain simplifications and approximations of actual conditions and interactions, and because a worst-case condition is of most interest, most of these dispersion models are conservative and tend to overpredict pollutant concentrations, particularly under adverse meteorological conditions.

The CO analysis for the proposed project has employed a modeling approach approved by EPA that has been widely used for evaluating air quality impacts of projects in New York City, New York State, and throughout the country, and has coupled this approach with a series of worst-case assumptions relating to meteorology, traffic, background concentration levels, etc. This combination results in a conservative estimate of expected carbon monoxide concentrations and resulting air quality impacts caused by the project.

DISPERSION MODELS FOR MICROSCALE ANALYSES

At the site selected for study, a first-level conservative analysis was performed using EPA's CAL3QHC model, version 2.* The CAL3QHC model is based on the CALINE-3 line source dispersion model with an additional algorithm for estimating vehicle queue lengths at signalized

* *User's Guide to CAL3QHC, A Modeling Methodology for Predicting Pollutant Concentrations Near Roadway Intersections,* Office of Air Quality, Planning Standards, U.S. Environmental Protection Agency, Research Triangle Park, North Carolina

intersections. The CALINE-3 model is a Gaussian model, which assumes that the dispersion of pollutants downwind of a pollution source follows a Gaussian (or normal) distribution, and is used for predicting CO concentrations along roadway segments. The pollution source is the emissions from motor vehicles operating under free-flow conditions. The refinement that CAL3QHC provides is the inclusion of the contribution of emissions from idling vehicles in the overall concentration. The queuing algorithm requires additional input for site-specific traffic parameters, such as signal timing, and performs delay calculations from the *1994 Highway Capacity Manual* traffic forecasting model to predict the number of idling vehicles. The CAL3QHC model was recently modified to include saturation flow rate, vehicle arrival type, and signal actuation characteristics as input parameters.

For a more refined analysis, the CAL3QHC model has been updated with an extended module, which allows for the incorporation of actual meteorological data into the modeling, instead of worst-case assumptions regarding meteorological parameters. This refined version of the model, CAL3QHCR, is only employed if maximum predicted CO concentrations are greater than the applicable ambient air quality standards or if significant air quality impacts are predicted with the first-level screening CAL3QHC modeling.

WORST-CASE METEOROLOGICAL CONDITIONS

In general, the transport and concentration of pollutants from vehicular sources are influenced by three principal meteorological factors: wind direction, wind speed, and atmospheric stability.

Wind direction influences the accumulation of pollutants at a particular receptor location. Wind direction was chosen to maximize pollutant concentrations at each of the prediction sites. In applying the CAL3QHC model, the wind angle was varied to determine the worst-case wind direction resulting in the maximum concentrations.

Following the recommendations of EPA and the procedures followed in the recent SIP submissions, carbon monoxide computations were performed using a wind speed of 1 meter/second, and stability class D. A persistence factor of 0.7 for the 8-hour period was selected. This persistence factor takes into account that over 8 hours, vehicle volumes will fluctuate downward from the peak, speeds may vary, and wind directions and speeds will change somewhat as compared with the conservative assumptions used for the single highest hour. A surface roughness of 3.21 meters was chosen, and a 43° Fahrenheit ambient temperature was assumed for the emissions computations. At each receptor location, the wind angle that maximized the pollutant concentrations was used in the analysis, regardless of frequency of occurrence.

ANALYSIS YEARS

The carbon monoxide microscale analysis was performed for 2001, both the year of completion of the golf course component of the project and the worst-case year with respect to CO emissions (i.e., in later years, emissions would be less due to vehicle turnover). However, the analysis was performed with worst-case traffic conditions, assuming completion of all the components of the project, which is expected to be in 2002. This approach is extremely conservative, since the modeled worst-case scenario is not an actual scenario that will occur as part of the proposed project. The 2001 analysis was performed both without (the No Build) and with the proposed project (Build).

VEHICLE EMISSIONS DATA

To predict ambient concentrations of pollutants generated by vehicular traffic, emissions from vehicle exhaust systems must be estimated accurately. Vehicular emissions were computed using the EPA-developed Mobile Source Emissions Model, MOBILE5B. Emission estimates were made for six classes of motor vehicles:

- Light-duty, gasoline-powered automobiles;
- Light-duty, gasoline-powered new taxis;
- Light-duty, gasoline-powered used police car taxis;
- Light-duty, gasoline-powered trucks;
- Heavy-duty, gasoline-powered trucks; and
- Heavy-duty, diesel-powered vehicles.

No light-duty diesel-powered vehicles (automobiles and taxis), light-duty diesel-powered trucks, or motorcycles were assumed. In the case of motorcycles, the number of such vehicles on any street is generally small. In the case of diesel-powered vehicles, emissions from a comparable class of gasoline-powered vehicles were included. Carbon monoxide emissions from the gasoline-powered vehicles are higher than the comparable diesel-powered vehicle emissions, and thus yield conservative estimates of total composite CO emissions and concentrations. Oxygenated-fuel credits were taken in the microscale modeling analyses. Emission estimates for oxygenated fuels were based on a gasoline blend with a 2.7 percent oxygen content.

Emission estimates were based on implementation of the New York State auto and light-duty gasoline-powered truck inspection and maintenance (I&M) program begun in January 1982 and the taxi I&M program begun in October 1977. The I&M program requires annual inspections of automobiles and light trucks to determine if carbon monoxide and hydrocarbon emissions from the vehicles' exhaust systems are below emission standards. Vehicles failing the emissions test must undergo maintenance and pass a re-test to be registered in New York State.

Heavy-duty vehicle emission estimates reflect local engine displacement and vehicle loading characteristics. Light-duty truck emissions were based on an assumed 73 percent-27 percent split between trucks weighing less than 6,000 pounds and trucks weighing 6,000 to 8,500 pounds. These data were obtained from the New York City Department of Environmental Protection (DEP) and are based on vehicle registration data.

Recently, New York state has decided to revise its future I&M program. Originally, the future I&M program was envisioned to include centralized facilities that would test vehicles under an "enhanced" program, at a dynamic load instead of at a simple idle. However, New York State has recently decided that, while the future I&M program would still involve an enhanced I&M program, motorists would be allowed to take their vehicles to nearby service stations that would be allowed to both test and repair autos that failed the new I&M test. The new I&M program started last year. Emissions for the future year (2001) analysis were developed using the new I&M program.

For automobiles and light-duty gasoline-powered trucks, emission estimates account for three possible vehicle operating conditions: cold-vehicle operation, hot-start operation, and hot-stabilized operation. It is important to distinguish between these three operating categories, because vehicles emit carbon monoxide at different rates depending on whether they are cold or warmed up. All taxis were assumed to be operating in a hot-stabilized mode; all arriving project-generated autos were assumed to be operating in a hot-stabilized mode; and all departing

project-generated autos were assumed to be operating in a cold mode. Auto operating conditions used in the future No Build emission calculations were obtained from data supplied by DEP, Bureau of Science and Technology *Report No. 34 (Revised)*. Light-duty truck operating conditions for Manhattan were based on data supplied by the former Tri-State Regional Planning Association, now the New York Metropolitan Transportation Coordinating Council (NYMTC). Table K-2 summarizes the thermal state conditions (i.e., *Report No. 34* for autos and NYMTC-supplied values for light-duty trucks) used in the analysis.

Table K-2

Vehicle Operating Conditions

	Arterial	Expressway
Auto		
Percentage Cold (Non-Catalytic)	27.9	10.8
Percentage Cold (Catalytic)	33.8	13.3
Percentage Hot (Catalytic)	9.4	3.7
Light-Duty Gasoline Trucks		
Percentage Cold (Non Catalytic)	4.1	4.1
Percentage Cold (Catalytic)	5.4	5.4
Percentage Hot (Catalytic)	50.5	50.5

TRAFFIC DATA

Traffic data for the air quality analysis were derived from traffic counts and other information developed as part of the project's traffic analysis (see Attachment J, "Transportation"). For the air quality analysis, traffic conditions on all of the pertinent roadway segments (including the main roadways of I-678) that assume completion of all the components of the project were employed, since volumes and levels of service would be worse. This would result in a conservative estimate of potential air quality impacts associated with the proposed project. The weekday PM (5-6 PM) and Saturday midday (12-1 PM) peak periods were subjected to full-scale microscale analysis. These time periods were selected for the mobile source analysis because they produce the maximum project-generated traffic and therefore have the greatest potential for significant traffic and/or air quality impacts.

BACKGROUND CONCENTRATIONS

Background concentrations are those pollutant concentrations not directly accounted for through the modeling analysis (which directly accounts for vehicular-generated emissions on the streets within 1,000 to 1,600 feet and line-of-sight of the receptor location). Background concentrations must be added to modeling results to obtain total pollutant concentrations at a prediction site.

The 1-hour average CO background concentration used in this analysis was 5.7 parts per million (ppm), and the 8-hour average background concentration was 2.3 ppm. These values, obtained from DEP, are based on CO concentrations measured at DEC monitoring stations and are adjusted to reflect the reduced vehicular emissions expected in the analysis years. For purposes of this adjustment, based on EPA guidance, it was assumed that 20 percent of the background value is caused by stationary source emissions that have remained relatively unchanged with time and that 80 percent of the background value is caused by mobile sources that decrease with time. This decrease reflects the increasing numbers of federally mandated lower-emission

vehicles that are projected to enter the vehicle fleet as older, higher-polluting vehicles are retired (i.e., vehicle turnover), and the continuing benefits of the New York I&M program. No credits for oxygenated fuels or an enhanced I&M program were taken in the rollback analysis.

MOBILE SOURCE RECEPTOR LOCATION

One complex air quality receptor site was selected for microscale analysis—the intersections of Lafayette Avenue and the I-678 north- and southbound service roads (see Figure K-1). Multiple receptor sites were modeled at this intersection (i.e., receptors were placed along the approach and departure links at spaced intervals).

This receptor site was selected because it is the key location in the study area where the largest levels of project-generated traffic are expected and overall constrained traffic conditions exist, and, therefore, where the greatest air quality impacts and maximum changes in CO concentrations would be expected.

E. EXISTING CONDITIONS

EXISTING MONITORED AIR QUALITY CONDITIONS (1997)

Monitored concentrations of CO, sulfur dioxide, particulates, nitrogen dioxide (NO_2), lead, and ozone ambient air quality data for the area are shown in Table K-3. These values are the most recent monitored data available that have been published by DEC for these locations. The nearest monitoring station for lead is in Manhattan. There were no monitored violations of the NAAQS for the pollutants at these sites or any other in New York City (with the exception of ozone, which is a regional pollutant) in 1997.

Table K-3

Representative Monitored Ambient Air Quality Data

Pollutant	Location	Units	Period	Concentrations			Number of Exceedances of Federal Standard	
				Mean	Highest	Second Highest	Primary	Sec-ondary
CO	Botanical Gardens	ppm	8-hour	—	4.6	3.5	0	0
			1-hour	—	7.4	7.3	0	0
SO_2	Morrisania II	ppm	Annual	0.012	—	—	0	—
			24-hour	—	0.055	0.043	0	—
			3-hour	—	0.090	0.089	—	0
Respirable Particulates (PM_{10})	Morrisania II	$\mu g/m^3$	Annual	24	—	—	0	0
			24-hour	—	58	48	0	0
NO_2	Morrisania II	ppm	Annual	0.035	—	—	0	0
Lead	Madison Avenue	$\mu g/m^3$	3-month	—	0.060	0.060	0	0
O_3	Morrisania II	ppm	1-hour	—	0.124	0.115	0	0

Source: *New York State Air Quality Report, Ambient Air Monitoring Systems*, Annual 1997 DAR-98-1.

F. THE FUTURE WITHOUT THE PROPOSED ACTION

CO concentrations without the proposed project were determined for the 2001 analysis year using the methodology previously described. Table K-4 shows future (2001) maximum predicted 1- and 8-hour average CO concentrations without the proposed project (i.e., 2001 No Build values) at the analysis intersection in the project study area. The values shown are the highest predicted concentrations for the receptor location for the time periods analyzed.

Table K-4

Future (2001) Maximum Predicted 1- and 8-Hour Average Carbon Monoxide No Build Concentrations in the Project Study Area (parts per million)

Receptor Site	Location	Time Period	1-Hour	8-Hour
1	Lafayette Avenue and I-678 NB & SB Service Roads	Sat MD	7.3	3.4
Note: 1-hour standard is 35 ppm; 8-hour standard is 9 ppm.				

G. PROBABLE IMPACTS OF THE PROPOSED ACTION

INTRODUCTION

Operation of the proposed project would result in increased mobile source emissions in the immediate vicinity of the project. In addition, the proposed project could also affect the surrounding community by emissions from the project's HVAC systems. Both areas of potential impact are examined below.

MOBILE SOURCE ANALYSIS

CO concentrations with the proposed project were determined for the 2001 analysis year using the methodology previously described. Table K-5 shows the maximum predicted future (2001) 8-hour average CO concentrations with the proposed project at the analysis intersection in the study area. (No 1-hour values are shown since no exceedances of the standard would occur and the *de minimis* criteria is only applicable to 8-hour concentrations. Therefore, the 8-hour values are the most critical for impact assessment.) The values shown are the highest predicted concentrations for the receptor location for the time periods analyzed.

Table K-5

Future (2001) Maximum Predicted 8-Hour Average Carbon Monoxide No Build and Build Concentrations (parts per million)

Receptor Site	Location	Time Period	No Build	Build
1	Lafayette Avenue and I-678 NB & SB Service Roads	Sat MD	3.4	3.5
Note: 8-hour standard is 9 ppm.				

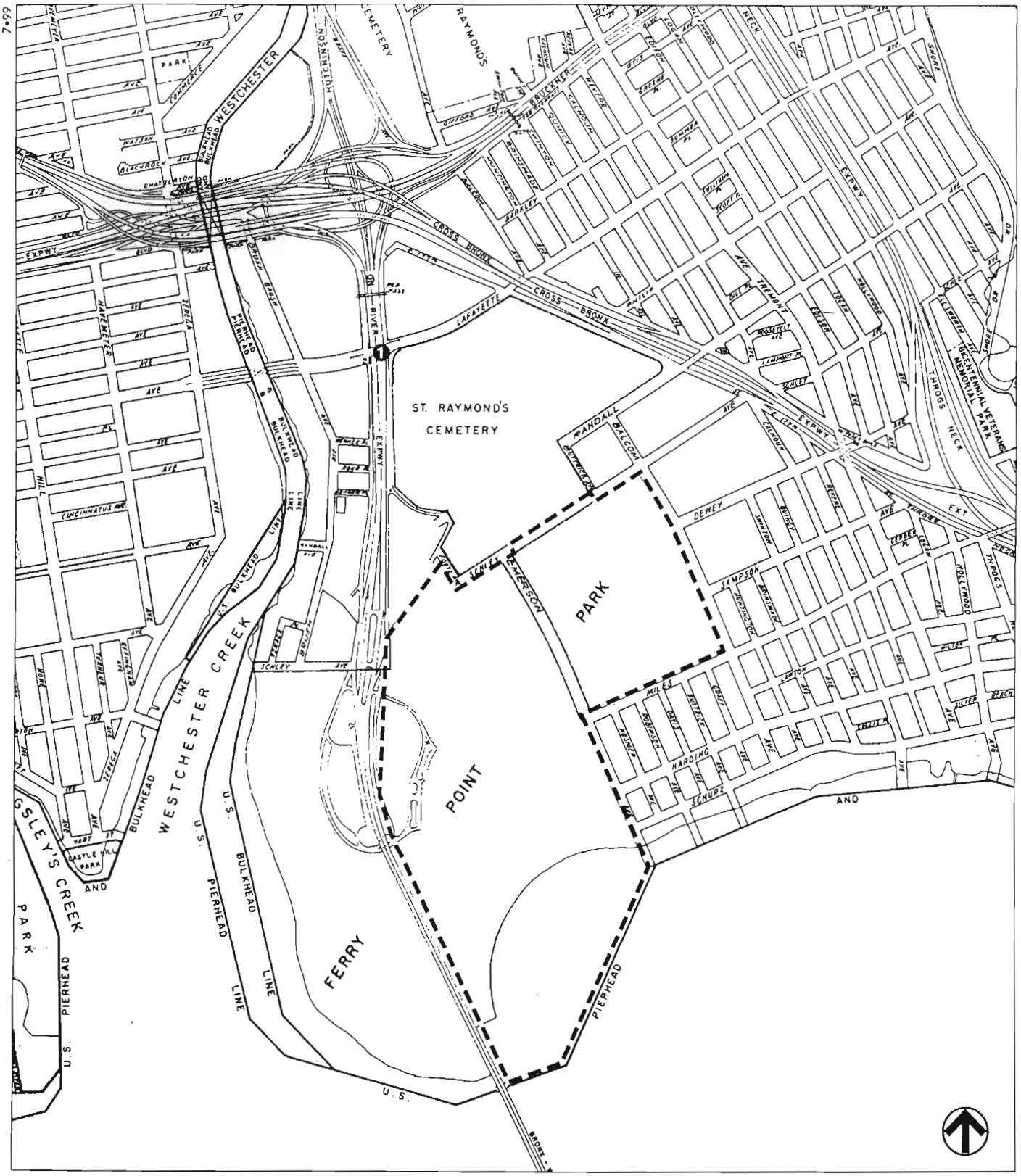

Project Site Boundary

1 Air Quality Receptor Location

0 1000 2000 FEET
SCALE

Ferry Point Park

Air Quality Receptor Location

Figure K-1

The 2001 results indicate that the proposed project would not result in exceedances of the CO standards or the *de minimis* criteria at this location. Therefore, the site in the future Build condition would not have a significant mobile source air quality impact.

STATIONARY SOURCE ANALYSIS

The only stationary source of air pollutants associated with the proposed project would be the emissions from the oil- or gas-fired HVAC systems. The primary pollutant of concern when burning oil is sulfur dioxide, and when burning natural gas is nitrogen dioxide. Based on the methodologies in the *CEQR Technical Manual*, either case would not result in any significant stationary source air quality impacts. Because there would be no tall structures or elevated receptors adjacent to the project site, the results of this analysis show that there would be no significant air quality impacts from the proposed project's HVAC system.

CONSISTENCY WITH THE NEW YORK STATE AIR QUALITY IMPLEMENTATION PLAN

The mobile source receptor location analyzed under the Build condition predicts that carbon monoxide levels would be less than the corresponding ambient air standard. Therefore, construction of the project would be consistent with the New York State Implementation Plan.

CONSTRUCTION IMPACTS

Possible impacts on local air quality during construction of the proposed project include:

- Fugitive dust (particulate) emissions from land clearing operations; and
- Mobile source emissions, including hydrocarbons, nitrogen oxide, and carbon monoxide emissions.

(Measures to protect workers during construction from the presence of methane are discussed in Section 4.1 of Attachment G. Construction activities would not be expected to significantly change areawide emission of this pollutant.)

These are described below.

FUGITIVE EMISSIONS

Fugitive dust emissions from land clearing operations can occur from excavation, hauling, dumping, spreading, grading, compaction, wind erosion, and traffic over unpaved areas. Actual quantities of emissions depend on the extent and nature of the clearing operations, the type of equipment employed, the physical characteristics of the underlying soil, the speed at which construction vehicles are operated, and the type of fugitive dust control methods employed. EPA has suggested, in general, an overall emission rate of about 1.2 tons of particulate/acre/month of active construction from all phases of land-clearing operations with no fugitive dust control measures. However, this is a national estimate and actual emissions would vary widely depending on many factors, including the intensity and type of land-clearing operations. Much of the fugitive dust generated by construction activities consists of relatively large-size particles, which are expected to settle within a short distance from the construction site and not significantly affect the buildings or people nearby.

For this project, excavation, and construction would be conducted with the care mandated by the site's proximity to active uses. All appropriate fugitive dust control measures—including

watering of exposed areas and dust covers for trucks—would be employed. In addition, all necessary measures would be implemented to ensure that the New York City Air Pollution Control Code regulating construction-related dust emissions is followed. As a result, no significant air quality impacts from fugitive dust emissions would be anticipated.

MOBILE SOURCE EMISSIONS

Mobile source emissions are emissions of air pollutants from motor vehicles, referred to as mobile sources. During construction, such emissions may result from: 1) trucks delivering construction materials, 2) workers' private vehicles, 3) disruptions in traffic near the construction site, and 4) construction equipment.

Localized increases in mobile source emissions would be minimized by incorporating traffic maintenance requirements into the construction contract documents to ensure that:

- Construction requiring temporary street closings for the relocation of utilities and for other purposes in heavily traveled areas would be performed, to the maximum extent possible, during off-peak hours;
- Existing number of traffic lanes would be maintained to the maximum extent possible; and
- Idling of delivery trucks or other equipment would not be permitted during periods when they are being unloaded or are not in active use. ❖

A. INTRODUCTION

Noise pollution in an urban area comes from many sources. Some sources are activities essential to the health, safety, and welfare of the city's inhabitants, such as noise from emergency vehicle sirens, garbage collection operations, and construction and maintenance equipment. Other sources, such as traffic, stem from the movement of people and goods, activities that are essential to the viability of the city as a place to live and do business. Although these and other noise-producing activities are necessary to a city, the noise they produce is undesirable. Urban noise detracts from the quality of the living environment and there is increasing evidence that excessive noise represents a threat to public health.

The proposed public recreation center at Ferry Point Park (i.e., the project) may increase ambient noise levels principally due to: increased automobile and truck traffic generated by the proposed project, including noise from vehicular movements in the parking lots at the fine dining/banquet facility on the eastern side of the project site; noise from maintenance operations, principally gas cutting on the eastern side of the project site adjacent to residences, and; noise from park activities, principally at the ballfield at the community park. In addition, construction of the proposed project will increase noise levels.

NOISE FUNDAMENTALS

Quantitative information on the effects of airborne noise on people is well documented. If sufficiently loud, noise may adversely affect people in several ways. For example, noise may interfere with human activities, such as sleep, speech communication, and tasks requiring concentration or coordination. It may also cause annoyance, hearing damage, and other physiological problems. Several noise scales and rating methods are used to quantify the effects of noise on people. These scales and methods consider such factors as loudness, duration, time of occurrence, and changes in noise level with time. However, it must be remembered that all the stated effects of noise on people vary greatly with the individual.

"A"-WEIGHTED SOUND LEVEL (dBA)

Noise is typically measured in units called decibels (dB), which are 10 times the logarithm of the ratio of the sound pressure squared to a standard reference presence squared. Because loudness is important in the assessment of the effects of noise on people, the dependence of loudness on frequency must be taken into account in the noise scale used in environmental assessments. One of the simplified scales that accounts for the dependence of perceived loudness on frequency is the use of a weighting network, known as "A"-weighting, in the measurement system, to simulate the response of the human ear. For most noise assessments, the A-weighted sound pressure level in units of dBA is used in view of its widespread recognition and its close correlation with perception. In the current study, all measured noise levels are reported in dBA or A-weighted decibels. Common noise levels in dBA are shown in Table L-1.

Table L-1
Common Noise Levels

Sound Source	(dBA)
Military jet, air raid siren	130
Amplified rock music	110
Jet takeoff at 500 meters	100
Freight train at 30 meters	95
Train horn at 30 meters	90
Heavy truck at 15 meters	
Busy city street, loud shout	80
Busy traffic intersection	
Highway traffic at 15 meters, train	70
Predominantly industrial area	60
Light car traffic at 15 meters, city or commercial areas or residential areas close to industry	
Background noise in an office	50
Suburban areas with medium density transportation	
Public library	40
Soft whisper at 5 meters	30
Threshold of hearing	0

Note: A 10 dBA increase in level appears to double the loudness, and a 10 dBA decrease halves the apparent loudness.
Source: Allee King Rosen & Fleming, Inc.

COMMUNITY RESPONSE TO CHANGES IN NOISE LEVELS

The average ability of an individual to perceive changes in noise levels is well documented (see Table L-2). Generally, changes in noise levels less than three dBA are barely perceptible to most listeners, whereas 10 dBA changes are normally perceived as doublings (or halvings) of noise levels. These guidelines permit direct estimation of an individual's probable perception of changes in noise levels.

It is also possible to characterize the effects of noise on people by studying the aggregate response of people in communities. The rating method used for this purpose is based on a statistical analysis of the fluctuations in noise levels in a community. Typically, the analysis examines the fluctuation in noise levels over one-hour and/or 24-hour periods. Various government and research institutions have proposed criteria that attempt to relate changes in noise levels to community response. One commonly applied criterion for estimating response is incorporated into the community response scale proposed by the International Standards Organization (ISO) of the United Nations (see Table L-3). This scale relates changes in noise level to the degree of

Table L-2
Average Ability to Perceive Changes in Noise Levels

Change (dBA)	Human Perception of Sound
2-3	Barely perceptible
5	Readily noticeable
10	A doubling or halving of the loudness of sound
20	A "dramatic change"
40	Difference between a faintly audible sound and a very loud sound

Source: Bolt Beranek and Neuman, Inc., *Fundamentals and Abatement of Highway Traffic Noise*, Report No. PB-222-703. Prepared for Federal Highway Administration, June 1973.

Table L-3
Community Response to Increases in Noise Levels

Change (dBA)	Category	Description
0	None	No observed reaction
5	Little	Sporadic complaints
10	Medium	Widespread complaints
15	Strong	Threats of community action
20	Very strong	Vigorous community action

Source: International Standards Organization, *Noise Assessment with Respect to Community Responses*, ISO/TC 43. (New York: United Nations, November 1969).

community response and permits direct estimation of the probable response of a community to a predicted change in noise level.

NOISE STANDARDS AND CRITERIA

Noise levels associated with the construction and operation of the proposed project are subject to the emission source provisions of the New York City Noise Control Code and to Noise Standards set for the City Environmental Quality Review (CEQR) process. Other standards and guidelines promulgated by federal agencies do not apply to project noise control, but are useful to review in that they establish measures of impacts. Construction equipment is regulated by the Noise Control Act of 1972.

NEW YORK CITY NOISE CODE

The New York City Noise Control Code promulgates sound-level standards for motor vehicles, air compressors, and paving breakers; requires that all exhausts be muffled; and prohibits all unnecessary noise adjacent to schools, hospitals, and courts. The code further limits construction

activities to weekdays between 7 AM and 6 PM. In 1979, Section 1403.3-6.01 of the code was reenacted as Local Law No. 64. This new law established ambient noise quality criteria and standards based on existing land use zoning designations. Conformance with the noise level values contained in the law is determined by considering noise emitted directly from stationary activities within the boundaries of a project. Construction activities and noise sources outside the boundaries of a project are not included within the provisions of this law.

NEW YORK CEPO-CEQR NOISE STANDARDS

The New York City Department of Environmental Protection (DEP), Division of Noise Abatement has set external noise exposure standards and attenuation values. These standards are shown in Tables L-4 and L-5. Noise exposure is classified into four categories—acceptable, marginally acceptable, marginally unacceptable, and clearly unacceptable. The standards for traffic noise are based on maintaining an interior noise level for the worst-case hour L_{10} of less than or equal to 45 A-weighted decibels (dBA). Standards for aircraft and train noise are different, and are derived from the standards of the Federal Department of Housing and Urban Development (HUD). These standards were adopted for use in the CEQR process.

IMPACT DEFINITION

As recommended in the *CEQR Technical Manual*, this report will utilize the following criteria to define a significant noise impact:

- An increase of 5 dBA, or more, in Build $L_{eq(1)}$ noise levels at sensitive receptors to those calculated for the No Build condition, if the No Build levels are less than 60 dBA $L_{eq(1)}$ and the analysis period is not a nighttime period.
- An increase of 4 dBA, or more, in Build $L_{eq(1)}$ noise levels at sensitive receptors to those calculated for the No Build condition, if the No Build levels are 61 dBA $L_{eq(1)}$ and the analysis period is not a nighttime period.
- An increase of 3 dBA, or more, in Build $L_{eq(1)}$ noise levels at sensitive receptors to those calculated for the No Build condition, if the No Build levels are greater than 62 dBA $L_{eq(1)}$ and the analysis period is not a nighttime period.
- An increase of 3 dBA, or more, in Build $L_{eq(1)}$ noise levels at sensitive receptors to those calculated for the No Build condition, if the analysis period is a nighttime period (defined by the CEPO-CEQR standards as being between 10 PM and 7 AM.).

NOISE PREDICTION METHODOLOGY

MOBILE NOISE SOURCES

A proportional modeling technique was used to determine approximate increases in noise levels due to changes in traffic volumes. Using this technique, the prediction of future traffic noise levels is based on a calculation using measured existing noise levels and predicted changes in traffic volumes to determine No Build and Build levels. No Build traffic volumes were based on applying a growth factor to the existing traffic volumes and adding the traffic volumes from any planned projects. Future Build traffic volumes were obtained by adding project-generated traffic values to No Build conditions. The vehicular traffic volumes were converted into Passenger Car Equivalent (PCE) values, for which one medium-duty truck (having a gross weight between 9,400 and 25,000 pounds) is assumed to generate the noise equivalent of 16 cars, and one

Table L-4
CEPO-CEQR Noise Exposure Standards for Use in City Environmental Impact Review[1]

Receptor Type	Time Period	Acceptable General External Exposure	Airport[3] Environs	Marginally Acceptable General External Exposure	Airport[3] Environs	Marginally Unacceptable General External Exposure	Airport[3] Environs	Clearly Unacceptable General External Exposure	Airport[3] Environs
1. Outdoor area requiring serenity and quiet[2]		$L_{10} \leq 55$ dBA	Ldn ≤ 60 dBA		$60 < L_{dn} \leq 65$ dBA		(1) $65 < L_{dn} \leq 70$ dBA, (II) $70 < L_{dn} \leq$		$L_{dn} > 75$ dBA
2. Hospital, Nursing Home		$L_{10} \leq 55$ dBA		$55 < L_{10} \leq 65$ dBA		$65 < L_{10} \leq 80$ dBA		$L_{10} > 80$ dBA	
3. Residence, residential hotel or motel	7 AM to 11 PM	$L_{10} \leq 65$ dBA		$65 < L_{10} \leq 70$ dBA		$70 < L_{10} \leq 80$ dBA		$L_{10} > 80$ dBA	
	11 PM to 7 AM	$L_{10} \leq 55$ dBA		$55 < L_{10} \leq 70$ dBA		$70 < L_{10} \leq 80$ dBA		$L_{10} > 80$ dBA	
4. School, museum, library, court, house of worship, transient hotel or motel, public meeting room, auditorium, out-patient public health facility		Same as Residential Day (7 AM-11 PM)		Same as Residential Day (7 AM-11 PM)		Same as Residential Day (7 AM-11 PM)		Same as Residential Day (7 AM-11 PM)	
5. Commercial or office		Same as Residential Day (7 AM-11 PM)		Same as Residential Day (7 AM-11 PM)		Same as Residential Day (7 AM-11 PM)		Same as Residential Day (7 AM-11 PM)	
6. Industrial, public areas only[4]	Note 4	Note 4		Note 4		Note 4		Note 4	

Notes:

(i) In addition, any new activity shall not increase the ambient noise level by 3 dBA or more; (ii) CEPO-CEQR Noise Standards for train noise are similar to the above aircraft noise standards: the noise category for train noise is found by taking the L_{dn} value for such train noise to be an L_{dn}^{y} (L_{dn} contour) value (see table on the following page).

1 Measurements and projections of noise exposures are to be made at appropriate heights above site boundaries as given by American National Standards Institute (ANSI) Standards; all values are for the worst hour in the time period.

2 Tracts of land where serenity and quiet are extraordinarily important and serve an important public need and where the preservation of these qualities is essential for the area to serve its intended purpose. Such areas could include amphitheaters, particular parks or portions of parks or open spaces dedicated or recognized by appropriate local officials for activities requiring special qualities of serenity and quiet. Examples are grounds for ambulatory hospital patients and patients and residents of sanitanums and old-age homes.

3 One may use the FAA-approved L_{dn} contours supplied by the Port Authority, or the noise contours may be computed from the federally approved INM Computer Model using flight data supplied by the Port Authority of New York and New Jersey.

4 External Noise Exposure standards for industrial areas of sounds produced by industrial operations other than operating motor vehicles or other transportation facilities are spelled out in the New York City Zoning Resolution, Sections 42-20 and 42-21. The referenced standards apply to M1, M2, and M3 manufacturing districts and to adjoining residence districts (performance standards are octave band standards).

Source: New York City Department of Environmental Protection (adopted policy 1983).

Table L-5

CEPO-CEQR Exterior Noise Standards and Attenuation Values

Noise Category	Marginally Acceptable	Marginally Unacceptable		Clearly Unacceptable		
Vehicular[a, b]	$65 < L_{10} \leq 70$	$70 < L_{10} \leq 75$	$75 < L_{10} \leq 80$	$80 < L_{10} \leq 85$	$85 < L_{10} \leq 90$	$90 < L_{10} \leq 95$
Train[a, b]	$60 < L_{dn} \leq 65$	$65 < L_{dn} \leq 70$	$70 < L_{dn} \leq 75$	$75 < L_{dn} \leq 80$	$80 < L_{dn} \leq 85$	$85 < L_{dn} \leq 90$
Aircraft[a, b]	$60 < L^{y}_{dn} \leq 65$	$65 < L^{y}_{dn} \leq 70$	$70 < L^{y}_{dn} \leq 75$	$L^{y}_{dn} > 75$	N/A	N/A
Required Attenuation[c]	25 dB(A)	(I) 30 dB(A)	(II) 35 dB(A)	(I) 40 dB(A)	(II) 45 dB(A)	(III) 50 dB(A)

Notes:

[a] Different descriptors are used for each noise source: L_{10} for vehicular traffic; L_{dn} for train noise; and L^{y}_{dn} (L_{dn} Contour) for aircraft noise.[*,†]

[b] The various noise sources at a receptor location are measured and reported separately in accordance with generally accepted procedures for assessing an overall noise level. Cases where there is not a clearly dominant noise source require a judicious decision based on adequate field experience and analysis to determine the final noise category that is deemed appropriate for the overall noise exposure at each noise receptor site.

[c] The above composite window-wall attenuation values are for residential dwellings. Commercial office spaces and meeting rooms would be 5 dB(A) less in each category. All the above categories require a closed window situation and hence an alternate means of ventilation.

[*] L_{dn} requires a 24-hour measurement or supportive analysis if a shorter period is employed.

[†] L^{y}_{dn} = "L_{dn} Contour" is an annual average of L_{dn} values ("y" indicates "yearly average").

heavy-duty truck (having a gross weight of more than 25,000 pounds) is assumed to generate the noise equivalent of 85 cars. Future noise levels are calculated using the following equation:

$$F\ NL = E\ NL + 10 * \log_{10} (FPCE / EPCE)$$

where:

F NL = Future Noise Level

E NL = Existing Noise Level

F PCE = Future PCEs

E PCE = Existing PCEs

Because sound levels use a logarithmic scale, this model proportions logarithmically with traffic change ratios. For example, assume that traffic is the dominant noise source at a particular location. If the existing traffic volume on a street is 100 PCE and if the future traffic volume were increased by 50 PCE to a total of 150 PCE, the noise level would increase by 1.8 dBA. If the future traffic were increased by 100 PCE, or doubled to a total of 200 PCE, the noise level would increase by 3.0 dBA. The proportional model screening technique was used to examine impacts during operation of the proposed project.

As mentioned previously, the *CEQR Technical Manual* considers a 3.0 dBA or higher increase in daytime noise levels a significant impact when the No Build noise level is equal to or greater than 62 dBA $L_{eq(1)}$, or if the analysis period is a nighttime period. Therefore, a doubling of traffic, where traffic is the dominant source of noise, results in a significant noise impact when daytime No Build noise levels are 62 dBA or greater, or when traffic is doubled during a nighttime hour. For daytime ambient No Build noise levels under 60 dBA, a noise level increase of 5 dBA is considered a significant increase in noise level. Traffic volumes must increase approximately by a factor of three for traffic-generated noise levels to increase by 5 dBA.

NOISE EFFECTS FROM PARKING LOT NOISE

Noise levels at locations adjacent to the parking lot for the fine dining/banquet facility were determined based on field measurements made at a location adjacent to comparable facility's parking lot in the area. Measurements were made on Saturday night, June 12, 1999 at the Marina del Rey Catering Facility, a banquet facility on Schurz Avenue at East Tremont Avenue. This Bronx facility is located near the project site, on the water, and in a lightly traffic, relatively quiet residential neighborhood. Measurements made at a distance of approximately 100 feet from the center of the parking lot, during an hour with approximately 110 vehicles departing the facility (i.e., 11:10 PM to 12:10 AM) and 36 vehicles on the adjacent Schurz Avenue, yielded a noise level of 57.7 dBA. This noise level was adjusted to represent conditions at the noise receptor location by assuming a change of 4.5 dBA per doubling (or halving) of distance between the noise source and receptor and proportionally adjusting the noise level based upon the source strength (i.e., the number of vehicles using the parking facility).

NOISE EFFECTS FROM GRASS MAINTENANCE EQUIPMENT

In terms of grass maintenance, the noisiest operation, once the initial construction is completed, will be grass mowing operations. A wide range of equipment is available from various manufacturers for these purposes, each with somewhat different noise characteristics. This includes not only gasoline and natural gas powered equipment, but electric and battery powered equipment. To minimize noise impacts, the equipment to be used for grass cutting on the eastern part of the course, near the residences, will be selected to not produce more than 70 dBA at 50 feet. There is a variety of equipment which meets this requirement.

NOISE FROM THE PARK ACTIVITIES

With the exception of noise generated from use of the community park active recreational area, park activities are not expected to generate any significant amount of noise. Noise from golfers is very low, and noise from the passive recreation activities in the waterfront park are also expected to be relatively low. Activities at location adjacent to the ball field at expected to be similar to noise levels measured at school playgrounds and have a worst-case $L_{eq(1)}$ dBA of 71.5 and a worst-case $L_{10(1)}$ of 74.5 dBA at the ball field or park boundary. These values are based on the results of a School Construction Authority (SCA) Playground Noise Study conducted by Allee King Rosen & Fleming, Inc., during October 1992. Geometric spreading and consequent dissipation of sound energy with increasing distance from the ball field would decrease noise levels at varying distances from the boundary. Hourly noise levels can be expected to decrease by the following values at the specified distances from the field boundary: 4.8 dBA at 20 feet, 6.8 dBA at 30 feet, and 9.1 dBA at 40 feet. For all distances between 40 and 300 feet, a 4.5-dBA drop-off per doubling of distances from the boundary should be utilized. For distances greater than 300

feet a general practice of using a 6-dBA drop-off rate per doubling of distance under normal circumstances.

B. EXISTING CONDITIONS

SITE DESCRIPTION

The project site is the eastern portion of Ferry Point Park and is bounded by: the Bronx-Whitestone Bridge and Hutchinson River Parkway to the west; Schley Avenue and Saint Raymond's Cemetery to the north; Balcom, Miles, and Emerson Avenues to the east; and the East River to the south. The project site is undeveloped except for an organic recycling and composting facility, which is located on the northwestern portion of the site, and an existing ballfield and basketball court that are located on the northeastern portion of the site. Existing traffic volumes on the Bronx-Whitestone Bridge/Hutchinson River Parkway, on the west of the project site are very high. There are a number of residences along Balcom, Miles, and Emerson Avenues, on the eastern boundary of the project site, and traffic levels in this area are relatively low.

The entire project site and its immediate environs are within the 65 L_{dn} contour of LaGuardia Airport, and the area is subject to frequent aircraft flyovers.

SELECTION OF NOISE RECEPTOR LOCATIONS

While all of the project-generated vehicular traffic will enter and leave the project site using the Hutchinson River Parkway Service Roads, an initial "worst case"screening analysis utilizing proportional modeling techniques (described above) showed that, because of the heavy traffic volumes on the Hutchinson River Parkway/Bronx-Whitestone Bridge, project-generated traffic would have an insignificant effect on noise levels at locations adjacent to this roadway (i.e., project-generated traffic would increase noise levels by less than 0.2 dBA. Similarly, results were obtained for an initial "worst case" screening analysis of Lafayette Avenue and other major feeder roadways to the project site. In addition, in general, these roadways are truck routes and do not have sensitive receptors on them. Consequently no noise receptor locations were selected at locations along the major feeder streets and roadways to the project site.

Instead, three noise receptor locations adjacent to the eastern side of the project site were selected for analysis. The selected receptor sites are at residences adjacent to the project site, and are located where noise from activities within the project site may directly affect sensitive receptors (i.e., residents). Site 1 is located at the intersection of Emerson and Miles Avenues; Site 2 is located at the intersection of Schurz and Emerson Avenues, and; Site 3 is located on Balcom Avenue between Schley and Dewey Avenues. Traffic volumes at Sites 1 and 2 are very low (less than 40 vehicles per hour). Traffic volumes at Site 3 are moderate (less than 400 vehicles per hour); however, there is approximately 8 buses/hour pass by this site. At all three sites there were frequent overflights by aircraft (i.e., approximately between 12 and 42 per hour).

NOISE MONITORING

Noise levels at the three receptor sites were measured for 20-minute periods during a weekday midday, PM, and nighttime periods on Wednesday, June 23, 1999, and during Saturday midday, PM, and nighttime periods on Saturday, June 19, 1999.

EQUIPMENT USED

The instrumentation used for the 20-minute measurements at the sensitive receptor sites was a Larson Davis Labs (LDL) Model MK224 microphone connected to an LDL preamplifier attached to an LDL Model 700 Type 1 (according to ANSI Standard S1.4-1983) sound level meter. The instrument was mounted at a height of 4 feet above the ground on a tripod. The meter was calibrated before and after readings with a Brüel & Kjær Type 4230 sound level calibrator using the appropriate adaptor. Measurements at each location were made on the A-scale (dBA) for a sampling period of 20 minutes at each site. The data were digitally recorded by the noise analyzer and displayed at the end of the measurement period in units of dBA. The descriptors recorded during the field measurements included L_{eq}, L_1, L_{10}, L_{50}, and L_{90}. A windscreen was used during all sound measurements except for calibration. All measurement procedures conformed with the requirements of ANSI Standard S1.13-1971 (R1976).

RESULTS OF MEASUREMENTS

Existing L_{eq}, L_1, L_{10}, L_{50}, and L_{90} noise levels at the three receptor sites are summarized in Table L-6. At Sites 1 and 2 noise levels are due to a combination of general background traffic levels in the area and aircraft flyovers, and at Site 3 traffic on Balcom Avenue, along with noise from aircraft flyovers, are the dominant noise sources. Noise levels excluding aircraft operations are approximately 2-5 dBA less than the values shown in the table.

Table L-6

Existing Noise Levels

Site	Location	Time	L_{eq}	L_1	L_{10}	L_{50}	L_{90}
1	Emerson/Miles Avenues	Weekday MD	55.1	66.5	58.5	48.5	43.0
		Weekday PM	54.8	61.0	58.0	52.5	49.5
		Weekday Night	51.6	62.0	53.5	48.5	47.5
		Saturday MD	56.3	69.5	58.0	49.0	45.0
		Saturday PM	61.1	73.0	65.0	54.5	50.5
		Saturday Night	49.4	60.0	53.0	44.0	42.5
2	Schurz/Emerson Avenues	Weekday MD	60.1	73.5	60.0	48.5	45.0
		Weekday PM	59.9	73.0	61.5	55.0	52.0
		Weekday Night	54.4	66.0	55.5	51.0	49.0
		Saturday MD	57.6	68.0	62.0	49.0	45.0
		Saturday PM	60.2	70.5	64.5	54.0	47.5
		Saturday Night	51.1	62.5	53.5	46.5	45.0
3	Balcom Avenue-Schley/Dewey Avenues	Weekday MD	66.8	78.5	69.0	61.5	51.5
		Weekday PM	65.6	76.5	69.0	58.0	44.5
		Weekday Night	66.6	76.5	69.0	61.0	54.5
		Saturday MD	67.9	80.0	70.5	62.5	58.5
		Saturday PM	67.9	78.5	70.5	64.0	57.5
		Saturday Night	63.9	73.0	66.0	58.0	52.0

Note: Based on noise measurements performed by Allee King Rosen & Fleming, Inc. on June 19th and 23rd, 1999.

In terms of the New York City CEPO-CEQR standards, existing noise levels at all three sites are in the "marginally acceptable" category.

In addition, it should be noted that the entire area, including Ferry Point Park, is impacted by aircraft flyovers from LaGuardia Airport, and noise levels in some areas of the park are above the 55 dBA L_{10} levels recommended for park use in the *CEQR Technical Manual* (see Table L-4). L_{10} levels in the park vary from approximately 78-80 dBA on the western edge of the park, adjacent to the Bronx-Whitestone Bridge/Hutchinson River Parkway, to approximately 52-53 dBA on interior, northern, and eastern locations, which do not have any adjacent vehicular traffic.

C. THE FUTURE WITHOUT THE PROJECT

Traffic volumes for No Build conditions will not change significantly from existing traffic volumes (see Attachment J, "Transportation"). Using the proportional modeling methodology described above, based upon the general growth of traffic in the area which would result in relatively small changes in traffic volumes, $L_{eq(1)}$ noise levels for No Build conditions will change slightly compared with existing noise levels. At all three noise receptor sites, $L_{eq(1)}$ noise levels for No Build conditions would increase by less than 0.1 dBA. Changes of this magnitude would not be perceptible and would not be significant.

D. POTENTIAL IMPACTS OF THE PROPOSED PROJECT

As discussed in Section B, Existing Conditions, Selection of Receptor Sites, a "worst case" analysis using proportional modeling techniques, indicated that project-generated traffic would increase noise levels on the feeder roadways to the project site by an imperceptible level (i.e., less than 0.2 dBA) and would not result in any significant noise impacts. However, noise generated by the proposed project due to three other sources—grass maintenance including grass mowing operations, operation of the fine dining/banquet facility including noise from their parking lots, and from use of the ballfield at the community park—have the potential for causing significant noise impacts at residents to the east of the project site and the potential for these impacts were examined. Due to the relatively low baseline noise levels at the project area, the likelihood of significant project-related impacts would be increased. The project would be designed so that noise from operation of all mechanical equipment, including HVAC equipment, would meet all applicable codes. Since the proposed project would be creating new parkland, conformance to the CEPO-CEQR guideline levels for outdoor areas potential sensitive to noise is also examined. Finally, impacts during construction are qualitatively discussed.

GRASS MAINTENANCE AND MOWING OPERATIONS

Site 1 on Miles Avenue is the quietest noise receptor location that potentially would be effected by grass maintenance or cutting operations. As previously mentioned, the specifications for the equipment to be used for grass cutting on the eastern part of the course, near the residences, will require that the equipment produce noise of 70 dBA or less at 50 feet. This equipment will be moving, and would be expected to a $L_{eq(1)}$ of approximately 52.5 dBA. Therefore, using the lowest measured daytime noise levels at this site, an $L_{eq(1)}$ of 54.8 dBA, during the hours when grass mowing operations are taking place, noise levels would increase by 2.0 dBA to 56.8 dBA. An increase of this magnitude would not be perceptible and would not constitute a significant impact.

OPERATION OF THE FINE DINING/BANQUET FACILITY

The project design includes a 8 to 10 foot noise barrier (with landscaping) along Emerson Avenue, behind the fine dining/banquet facility to shield residents on Emerson Avenue, both

visually and acoustically, and minimize effects of this facility on the adjacent community. Measurements at a distance of approximately 100 feet from the center of a comparable facility yielded 57.7 dBA with 110 vehicles departing from a parking lot. This noise level was adjusted to represent conditions at the noise receptor location by assuming a change of 4.5 dBA per doubling (or halving) of distance between the noise source and receptor and proportionally increasing the noise level based upon the number of vehicles using the parking facility. Parking for a maximum capacity event at the project site would be in two parking lots—a southern lot with approximately 100 car capacity, and a northern lot with approximately 400 car capacity. Site 2, on Emerson Avenue, is representative of locations that potentially may be effected by noise from this source. The noise barrier would reduce noise levels by approximately 8-10 dBA. Therefore, using the lowest measured PM or nighttime noise level at this site, an $L_{eq(1)}$ of 51.1 dBA, when a major event takes place at the banquet facility, during the hour when people arrive and depart, noise levels would increase by approximately 2.9 (2.0) dBA to 54.0 (53.1) dBA. An increase of this magnitude would not be perceptible and would not constitute a significant impact. This barrier would also reduce noise from any truck deliveries or other service area events.

USE OF THE NEW BALLFIELD IN THE COMMUNITY PARK

Noise levels on Balcom Avenue near the new ballfield in the community park would not increase due to the proposed project for two reasons: First, existing noise levels are already a function of noise from the existing ballfield and traffic in this area; and Second, traffic noise on Balcom Avenue is the dominant noise source. Existing daytime $L_{eq(1)}$ noise levels on Balcom Avenue are currently typically approximately 65-68 dBA. Noise from the ballfield would be expected to be below 60 dBA. Therefore, project-generated noise would not be expected to have a significant impact.

NOISE LEVELS IN NEWLY CREATED PARKLAND

The proposed action would result in the demapping of two unbuilt and undeveloped streets-Emerson Avenue between Miles and Schley Avenues, and Schley Avenue between Buttrick and Emerson Avenues. The two demapped streets would be remapped as parkland and incorporated into Ferry Point Park. Existing noise levels at these two locations are relatively low, since there is no adjacent vehicular traffic, and it would be expected that noise levels in these areas would be comparable to that in adjacent park areas and would exceed the CEPO-CEQR guideline level of 55 dBA L_{10} for outdoor areas potentially sensitive to noise. Based upon CEQR criteria, noise levels in these new parklands would not cause a significant impact.

CONSTRUCTION IMPACTS

Impacts on noise levels during construction of the proposed project include noise and vibration from construction equipment operation, and noise from construction and delivery vehicles traveling to and from the construction site. In general, the project site is removed from residents and other sensitive receptors, deliveries of supplies and workers will be via the I-678 service road, which is not adjacent to residents, and deliveries and parking will be accommodated on-site. Consequently noise impacts during construction are expected to be minimal and for relatively short durations.

The level of impact during construction depends on the noise characteristics of the equipment and activities involved, the construction schedule, and the location of potentially sensitive noise

receptors. Noise and vibration levels at a given location are dependent on the kind and number of pieces of construction equipment being operated, as well as the distance from the construction site. The construction site of the proposed project will produce peak noise levels that will be clearly discernable at some nearby residences, and may be considered intrusive. Typical noise levels of construction equipment expected to be employed during the construction process are presented in Table L-7. Noise levels caused by construction activities would vary widely, depending on the phase of construction—land clearing and excavations, foundation and capping, erection of structural steel for any structures, construction of exterior walls, etc.—and the specific task being undertaken.

Table L-7

Typical Noise Emission Levels for Construction Equipment

Equipment Item	Noise Level at 50 Feet (dBA)
Air Compressor	81
Asphalt Spreader (paver)	89
Asphalt Truck	88
Backhoe	85
Bulldozer	87
Compactor	80
Concrete Plant	83[1]
Concrete Spreader	89
Concrete Mixer	85
Concrete Vibrator	76
Crane (derrick)	76
Delivery Truck	88
Diamond Saw	90[2]
Dredge	88
Dump Truck	88
Front End Loader	84
Gas-driven Vibro-compactor	76
Hoist	76
Jack Hammer (Paving Breaker)	88
Line Drill	98
Motor Crane	93
Pile Driver/Extractor	101
Pump	76
Roller	80
Shovel	82
Truck	88
Vibratory Pile Driver/Extractor	89[3]

Notes:

1 Wood, E.W. and A.R. Thompson, Sound Level Survey, Concrete Batch Plant; Limerick Generating Station, Bolt Beranek and Newman Inc., Report 2825, Cambridge, MA, May 1974.

2 New York State Department of Environmental Conservation, *Construction Noise Survey, Report No. NC-P2*, Albany, NY, April 1974.

3 F.B. Foster Company, Foster *Vibro Driver/Extractors, Electric Series Brochure*, W-925-10-75-5M.

Source: Patterson, W.N., R.A. Ely, and S.M. Swanson, *Regulation of Construction Activity Noise*, Bolt Beranek and Newman, Inc., Report 2887, for the Environmental Protection Agency, Washington, D.C., November 1974, except for notated items.

Increased noise levels caused by construction activities can be expected to be most significant during the early phases of construction. The most significant noise source associated with the construction equipment will be the use of pile-drivers for construction of any buildings on-site. A pile-driver will be used periodically for a limited time period during the early phases of construction of the buildings on-site. Most of the buildings are far removed from residences, which are located to the east of the site. Pile-driver noise will be intrusive and would be discernable to residences within several blocks of the project site during the limited time period that pile driving occurs during construction of the fine dining/banquet facility. However, these peak construction noise levels would persist for only a limited time period in the early phase of construction. During the later phases of construction noise levels would be much less severe.

Construction noise is regulated by the New York City Noise Control Code and by EPA noise emission standards for construction equipment. These local and federal requirements mandate that certain classifications of construction equipment and motor vehicles meet specified noise emissions standards; that, except under special circumstances where a variance is issued for a limited number of days, construction activities be limited to weekdays between the hours of 7:00 AM and 6:00 PM; and that construction material be handled and transported in such a manner as not to create unnecessary noise. These regulations would be carefully followed. In addition, appropriate low-noise emission level equipment and operational procedures would be used. Compliance with noise control measures would be ensured by including them in the contract documents as material specification and by directives to the construction contractor. ❖

Attachment M: Pollutant Loading Analysis

Non-Point Source Pollutant Loading Analysis: Ferry Point Park Recreational Facility

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Ferry Point Park Recreational Facility
Non-point Source Pollutant Loading Analysis

1.0 INTRODUCTION

The Ferry Point Park recreational facility is a multi-use facility proposed for the eastern portion of Ferry Point Park (the site) in Bronx County, New York. This eastern portion of Ferry Point Park encompasses approximately 222 acres of ruderal vegetation (plant colonizing waste ground) on a former landfill. The comprehensive golf facility is the largest portion of the proposed project and is a primary focus of this evaluation—it will include a driving range, practice range clubhouse and associated parking. Other project components include a waterfront park, a community park, and two restaurant facilities.

The proposed project will modify and the site's existing land use, and land cover, and topography. As a former landfill, the site can best be characterized as an open field that is undergoing early ecological succession. Largely a mixture of grasses and other herbaceous plants, the site has some scattered patches of trees, the majority of which do not provide any substantial canopy cover. Throughout the site there is evidence of past dumping activity. There are small, isolated wetlands present on the site located along the Hutchinson River Parkway along the site's western border. Pockets of disturbed land and some impervious surfaces also occur throughout the site. In general, land cover is reflective of a typical open, urban site. Although the site's post-development condition will provide a much expanded and improved recreational opportunity for the area, the change in land use and vegetative cover has the potential to increase the generation of pollutants. The development of any site affects the generation of pollutants because of an increase in impervious cover, and an increase in the volume of stormwater runoff. Impervious cover, without adequate mitigation, reduces the infiltration of precipitation, leading to a decrease in ground water recharge and increase in surface runoff. The volume and energy associated with this additional runoff can potentially mobilize and transport pollutants. The actual types and availability of pollutants that will be mobilized or transported with runoff will vary with land use. Typically, the more intensely land is developed (i.e., the greater the amount of impervious cover) the greater the variety of potential pollutants. The pollutants most often associated with land development are nutrients (nitrogen and phosphorus), suspended sediments, petroleum hydrocarbons, organic material and heavy metals. Fertilizers are the main source of increased nitrogen and phosphorus loads. Soil erosion and decomposition of vegetation are other nutrient sources. Erosion of exposed, insufficiently vegetated land surfaces leads to increases in suspended sediments. The generation of heavy metals, organic material (reflected in the measurement of biochemical oxygen demand (BOD)) and petroleum hydrocarbons can also increase as land becomes increasingly developed. Many of these pollutants arise as a result of vehicular emissions.

For the Ferry Point project, the evaluation of post-development pollutant loading focused on the quantification of the pollutant load generated by the

comprehensive golf facility (pervious area) and the impervious area consisting of the two proposed restaurants, their associated parking areas, parking areas for the waterfront park, and the internal roadways (including cart paths). As discussed below in the subsequent sections of this report, the analysis utilizes a stormwater modeling technique that enables the comparison of pre- and post-site development pollutant loads. The methodology also allows pollutant reduction best management practices (BMPs) to be accounted for in the analysis. As a result, the data generated are considered to be reflective of the post-development pollutant load that will be discharged to the East River following the completion of construction.

Of the pollutants of concern listed above, emphasis was placed on the control of nutrients, BOD and heavy metals. Minimization of the post-development discharge of these pollutants into the East River is in keeping with the nutrient reduction strategies of the Long Island Sound initiatives and the environmental principles set forth for golf course developments (CRM 1996).

2.0 METHODOLOGY

The objective of the pollutant loading analysis conducted for the Ferry Point project was to accurately quantify differences in pollutant loading between existing and proposed site-development conditions. The analysis was conducted on all areas of the project site, with the exception of the pervious sections of the waterfront park that drain directly to the East River. All impervious elements of the waterfront park (the parking areas) will be treated for water quality and are accounted for in the analysis.

The pollutant load analysis was conducted in accordance with the methodology specified in Schueler (1987). Referred to as the *Simple Method*, this pollutant load quantification technique has been adopted by a number of environmental and planning agencies including the New York State Department of Environmental Conservation (DEC). The *Simple Method* is especially well suited for the assessment of land use and associated pollutant loading changes for suburban/urban settings. The model integrates rainfall, rainfall intensity and impervious cover attributes, and can be used to examine pollutant loading under short-term (storm specific) and long-term (annual) scenarios. This makes the model very adept for analyzing changes in pollutant loading due to even minor changes in land use or land cover. DEC (1993) indicated that this pollutant quantification technique is robust and flexible, yet capable of generating accurate data. In addition, the results of the *Simple Method* can be used to evaluate the feasibility and effectiveness of different pollutant load management strategies or BMPs. Although loading coefficients specifically intended for the analysis of golf course development are not supplied in either Schueler (1987) or DEC (1993), appropriate coefficients are available in the scientific literature. These coefficients were developed as a result of the actual field study and measurement of storm related pollutant loading from turf.

The non-point source pollutant analysis discussed in this report focuses on pollutants that have the greatest potential to impact the water quality of the East

River—nutrients (nitrogen and phosphorus), organic loadings (BOD), and heavy metals. The modeling procedure for these pollutants consisted of three main components.

Delineation of the project site into sub-watershed (catchment) areas based on projected topographic contours, and the proposed stormwater collection and routing system.

Identification of the prevailing land use(s) within each sub-watershed under existing and post-development conditions.

Assignment of pollutant loading coefficients, under existing and post-development conditions. The coefficients selected for use in this study were obtained from Schueler (1987) and DEC (1993), and assessed for their applicability by comparison with data available through Barten (1995) and others. The selected coefficients are reflective of site-specific existing and post-development conditions with regard to imperviousness, slope, soils, and, in particular, land cover.

The characterization of pre-development land use conditions is the result of site inspections, the review and interpretation of aerial photos, and information supplied by other members of the project team. The post-development land use/cover designations were provided by the project engineer and are based on the input parameters of the TR-55 worksheets dated July 1999. Under the post-development scenario, the reported acreage of each land use and land cover reflects the most recent golf course layout. As such, the acreage of each sub-watershed used in this analysis accounts for the clubhouse, restaurants, maintenance facility, parking lots, roadways and other associated impervious surfaces. The selected coefficients were each cross-referenced with a number of sources, particularly Barten (1995) which provides coefficients based on the in-field measurement of runoff from four golf courses.

The comprehensive golf facility will use a combination of BMPs to mitigate the pollutant load generated from the operation of the facility. Thus, the pollutant load analysis conducted herein included the adjustment of the projected post-development pollutant loads to account for the load reductions attributable to BMP implementation. The functional characteristics of the BMPs are based on sizing and stormwater routing information (TR-55) provided by the project engineer (dated 8 July 1999).

It should be noted that the construction of the golf course will alter the existing sub-catchment divides. Reference to the area of each sub-catchment therefore reflects post-development topography. Alteration of the size of each sub-catchment is inconsequential to the overall purpose of the pollutant loading analysis, as all the runoff from the site will continue to be discharged to the East River via the same discharge points that currently convey runoff off-site.

3.0 RESULTS

The Ferry Point Park Recreational Facility encompasses approximately 222 acres. Of this, the comprehensive golf facility covers approximately 190 acres. All of the drainage from the comprehensive golf facility is eventually directed to the East River through a portion of an existing stormwater collection system. In general, the project will result in the conversion of the existing open, urban grassland to a combination of turf/grass surfaces and impervious cover. The turf/grass is associated with the greens, fairways, tees and roughs of the comprehensive golf facility. Of these, only the greens, tees and fairways will be managed (treated with fertilizers and pesticides following initial grow in). The impervious sections of the project include the parking areas, cart paths, internal roadways and buildings (restaurants, clubhouse, and maintenance building). Table 1 summarizes the proposed land use conditions by sub-catchment. Current land use conditions and associated acreages by land use type are discussed in detail in Attachment E - Natural Resources. Most of the existing site (approximately 178 acres) can be characterized as urban meadow. These meadows are covered by plant species that reflect the site's disturbed nature and urban setting. The 19.5-acre waterfront park is not included in Table 1, but runoff from the park's impervious areas will be routed to the vegetated dry basins located nearby. The pervious portions of the waterfront park will be directed largely to the East River. The net change in land cover for these pervious areas is not likely to substantially change pollutant loadings from the existing condition.

TABLE 1 Ferry Point Comprehensive Golf Facility Post-development Land Use/Cover in Acres

Sub-Catchment	Grassed	Ponds	Impervious
1	25.09	0	1.24
2	19.04	0.75	4.81
3	41.22	4.62	1.22
4	7.09	0.65	0
4b	13.31	0	0
5	41.08	4.22	0.92
6	17.40	0	4.64
7	1.86	0	1.79
Total	166.09	10.24	14.62

The changes from pre- to post-development pollutant loading were calculated for each sub-catchment using Schueler's *Simple Method*. As previously mentioned, DEC (1993) recommends the *Simple Method* for the computation of pollutant loading and the evaluation of the water quality benefits of BMPs. The coefficients for the *Simple Method* are flow weighted mean concentrations (milligrams per liter (mg/L)) derived from actual field measurements of pollutants in stormwater runoff (Reckhow et. al. 1980). The model includes a rainfall depth and rainfall intensity component, and thus allows for some degree of integration of the hydrologic, peak flow modeling data (SCS, TR-55) in the calculation of the pollutant load. That is, the CN (runoff curve number) values and soil

classifications used in the TR-55 analysis can be used to better define the R_v (runoff coefficient) value of the *Simple Method*, thereby increasing the accuracy of the pollutant load analysis on a local scale.

For the pre-development condition, the average NURP (Nationwide Urban Runoff Program) values (Table 1.1 of Schueler 1987) were used. These values are reflective of the average concentration of pollutants measured in stormwater runoff sampled from sites throughout the Mid-Atlantic region. The post-development coefficients were also extracted from Table 1.1 of Schueler (1987) and are reflective of the average concentration of pollutants measured in stormwater runoff sampled from established suburban sites located in the Mid-Atlantic region. These coefficients are derived for landuse activities having a similar degree of imperviousness and a similar degree of use intensity. It should be noted that the selected loading coefficients used to model post-development pollutant loading are conservative, that is they most likely result in an overestimate of the pollutant load. This statement is based on the comparison of the selected coefficients to actual nutrient concentrations measured by Barten (1995) in runoff samples collected from four golf courses.

Table 2 summarizes the results of the *Simple Method* analysis, and provides a comparison of pre-development and post-development pollutant loads. The loadings presented in Table 2 do not reflect any reduction in pollutant loading attributable to the implementation of the golf course's proposed BMPs.

Table 2 Ferry Point Comprehensive Golf Facility Pre and Post-Development Non-point Source Loading

	Lbs./Year			
Loading	**Total N**	**Total P**	**BOD**	**Heavy Metals**
Existing	1392.1	181.0	3549.8	27.8
Post-Development*	1581.2	206.5	5774.5	86.0
Difference (Lbs.)	+ 189.1	+25.5	+2224.7	+58.2

* Loading without pollutant removal attributable to BMPs, IPM, or other pollutant load mitigative strategies.

The comprehensive golf facility will use a combination of structural and non-structural techniques to decrease pollutant loading. The structural measures will include four water quality ponds, five vegetated dry detention basins, and water quality inlets designed to intercept and trap particulate pollutants, oils and heavy metals generated from parking areas and the maintenance area. Where practical, runoff will also be allowed to flow through grassed swales and vegetated buffers prior to its routing to the water quality ponds or vegetated dry detention basins. In addition to these structural techniques, the course will follow a turf management plan (Integrated Pest Management Plan [IPM]) designed to decrease the use of pesticides and fertilizers and control the potential for their off-site migration. Table 3 presents the pollutant removal efficiencies of the structural BMPs. These

values are in keeping with data reported in Schueler (1987), DEC (1993) and NJDEP (1994).

Given that the site's stormwater will be treated by a series of BMPs prior to discharge into the East River, the pollutant loads presented in Table 2 must be adjusted to account for their load-reduction capabilities. For this analysis, load reduction credit was given only to the structural BMPs; i.e., the water quality ponds, vegetated dry detention basins, water quality inlets and the grassed swales and buffers. Table 4 presents the results of the pollutant load calculations following adjustment for the treatment of stormwater runoff by the BMPs.

Table 3 Ferry Point Comprehensive Golf Facility Pollutant Removal Efficiency of Proposed Structural BMPs

BMP	Percent Removal*			
	Total N	Total P	BOD	Heavy Metals
Water Quality Ponds	30	50	40	75
Vegetated Dry Detention Basins	30	30	35	70
Water Quality Inlets	10	10	10	35
Vegetated Swales / Buffers	10	10	20	20

* As per DEC 1993; NJDEP 1994 and Horner et. al. 1994

Table 4 Ferry Point Comprehensive Golf Facility Pre and Post-Development Non-point Source Loading Adjusted to Account For Pollutant Reduction Attributable to Proposed Structural BMPs

Loading	Pollutant Loading Lbs./ Year			
	Total N	Total P	BOD	Heavy M
Existing	1392.1	181.0	3549.8	27.
Post-Development*	1029.8	126.8	3282.5	26.
Difference (Lbs.)	- 362.3	- 54.2	- 267.3	- 1.

* Loading adjusted to account for pollutant removal attributable to water quality ponds, vegetated dry basins, water quality inlets, and vegetated swales/buffers.

The results presented in Table 4 indicate that nitrogen, phosphorus, and BOD will decrease from current loads in the post-development condition, while concentrations of heavy metals will remain the same. The differences in the post-development loads presented in Tables 4 is the result of the integrated utilization of the facility's BMPs. This includes the linkage of water quality ponds, vegetated dry detention basins, water quality inlets and vegetated swales/buffers. It should be noted that because of the proposed prolonged detention times, the pollutant removal efficiencies used in this analysis are conservative, and efficiencies of the BMPs may be actually higher than presented in Table 3. Furthermore, no credit

was taken for the pollutant reduction attributable to the proposed turf management plan. Therefore, the reduction in pollutant loading in the post-development condition is likely to be much greater than the values presented in Table 4.

4.0 DISCUSSION

The potential for the increased generation of pollutants is inherent with any form of development. As presented in *Section 1.0*, changes in impervious cover, land use and the intensity of land invariably increases the amount and the types of pollutants. The data presented in Table 2 indicate that this is no different for the case of the proposed Ferry Point project.

However, it has also been repeatedly documented in the scientific literature that the nutrients, pesticides and other pollutants can be greatly reduced through the implementation of well designed BMPs. A highly integrated stormwater quality management system has been designed for the Ferry Point project. Runoff will be directed to a series of BMPs, which will utilize a combination of physical, chemical and/or biological processes to decrease pollutant loading to the East River.

Although the gross, predicted pollutant loads (Table 2) suggest that the off-site export of pollutants will be a greater following redevelopment, these data do not account for the mitigative benefits of the various BMPs and other pollutant management strategies, such as IPM, that will be implemented following the site's development. This approach to the on-site management of potential pollutants is a major tenet of the environmental principles for golf courses developed jointly by the U.S. Golf Association, U.S. Environmental Protection Agency, Golf Course Superintendents Association of America, and American Society of Golf Course Architects (CRM 1996). Under existing conditions, there are no specifically designed water quality enhancement BMPs in place—unstable, erosion prone areas exist, and there is the potential that pollutants associated with the site's past uses can be leached, mobilized and transported into the East River during storm events. Following the development of the site, runoff from the comprehensive golf facility, including all impervious surfaces, will be treated by a number of BMPs.

The runoff from sub-catchments 2, 3, 4 and 5 will be routed into specifically designed water quality ponds. The ponds managing the runoff from sub-catchments 3 and 5 will provide prolonged detention (>72 hours). Water quality ponds that provide prolonged detention times have substantially higher pollutant removal efficiency rates than most other types of BMPs, because they use a combination of physical, chemical and biological processes to reduce pollutants. As with any standing waterbody, the water column concentrations of incoming particulate pollutants (e.g. nutrients, heavy metals) will initially be reduced as a result of the settling of the heavier, course grain particulate matter (i.e. total suspended solids). Studies have shown that the majority of suspended particulate

pollutants will settle out of the water column during the first 6 to 12 hours (NJDEP 1994).

Unlike most conventional structural stormwater measures, water quality ponds can also remove significant amounts of dissolved pollutants, especially soluble nutrients, from the water column. This occurs due to a combination of chemical and biological processes associated with bacterial, algal and aquatic plant uptake of dissolved constituents. In particular, the biological assimilation of dissolved pollutants and soluble nutrients is an important pollutant removal pathway, and will aid in the control of nutrients originating from the application of fertilizers. As such, the combination of the settling of particulate pollutants and the assimilation of soluble pollutants, enables water quality ponds to be very effective in the reduction of stormwater-related pollutants.

The pollutant removal efficiency of water quality ponds varies depending on site specific conditions and the pond's design specifications (NJDEP 1994, Schueler 1987), but are generally high. For example, projected removal efficiencies of water quality ponds are estimated to 50 percent for total phosphorus (TP) and 30 percent for total nitrogen (TN) (Schueler 1996).

Vegetated dry basins will be used to manage the pollutant loading from sub-catchments 1, 2, 4B, 6, and 7. These basins, through filtration, settling and bio-uptake processes, are also very efficient in the removal of particulate and even soluble pollutants. Although they do not have the prolonged detention times of the water quality ponds, the vegetated basins will dampen and detain the first flush of storm events. This promotes the settling of particulates, while passage of runoff through the basin's vegetation promotes biofiltration and the assimilation of dissolved and soluble forms of pollutants.

Runoff from the impervious areas of the site, such as the parking lots and the golf course maintenance facility, will be routed to water quality inlets. Water quality inlets are catch basins with an outlet invert pipe raised approximately 0.6 m (2 ft) from the bottom. Standard catch basins have little, if any, positive impact on water quality. In contrast, water quality inlets can convey stormwater yet provide some degree of pollutant reduction (Schueler 1996). By raising the outlet pipe, and creating a retention sump in the bottom of the basin, sediments and particulate pollutants can be removed from the runoff. This is accomplished because the sump helps to slow storm surges and reduce the velocity of the runoff. This promotes the settling of sediment and the removal of pollutants such as heavy metals, petroleum hydrocarbons and nutrients bound to or adsorbed on the sediment particles. For the Ferry Point site, these inlets will be used as pre-treatment mechanisms for sub-catchments 1, 2, 6 and 7. These specially designed inlets will act to remove the courser sediments, and associated particulate pollutants, from the stormwater prior to its routing to the water quality ponds or the vegetated dry basins.

Additional, albeit minor, treatment of runoff from the grassed sections of the site will be accomplished, where possible and practical, by allowing runoff to sheet flow though vegetative buffers or be transported to the water quality ponds or

vegetated dry basins via vegetated swales. A swale is a natural depression or wide, man-made shallow ditch used to temporarily store, route or filter runoff (Schueler 1995). Although swales have a limited capacity to detain and treat stormwater runoff, when combined with other structural stormwater measures they can measurably decrease stormwater pollutants (Harper 1994). This is accomplished in three ways. First, the vegetation present in the swale reduces runoff velocity. The extent to which this occurs is dependent on the length, depth and gradient of the swale, as well as the density of the vegetation. A reduction in the velocity of runoff will increase the settling of particulate pollutants in much the same way as occurs in water quality ponds and vegetated dry detention basins. Second, a portion of the runoff discharged to a swale infiltrates into the soil, thus decreasing the volume of runoff. The extent to which this occurs is dependent on soil moisture conditions, the gradient of the swale, and the velocity of the runoff. Third, the vegetation present in the swale will filter out particulate pollutants and help retain these pollutants on-site.

Vegetated buffers work in much the same way as vegetated swales, relying on the combination of settling, filtration and infiltration to remove pollutants from runoff. Overall, these swales and buffers are relatively effective in the reduction of particulate pollutants, but are not highly effective in the removal of soluble pollutants such as nutrients. None-the-less, both are useful pre-treatment mechanisms.

For the Ferry Point project, the efficiency of the individual BMPs is further enhanced by the fact that most of the BMPs are linked. That is the site's stormwater routing system hydrologically connects certain BMPs, thereby creating a "pollutant removal train." Each of the inter-linked BMPs work in unison to remove pollutants by either different processes or as a result of repeated processes. For example, in sub-catchments 1, 2, 6 and 7, water quality inlets are utilized in unison with the water quality pond or vegetated dry basin. The water quality inlets serve as a pre-treatment mechanism removing course particulate materials and associated particulate pollutants (primarily by sedimentation) while the pond and vegetated basins remove finer sediments, nutrients and soluble pollutants (primarily by filtration and bio-uptake). When properly integrated, as has been accomplished for the Ferry Point project, the linkage of BMPs increases the overall efficiency of the stormwater management system (Horner et. al. 1994). As illustrated by the differences in projected loading with (Table 4) and without (Table 2) the implementation of the structural BMPs, the proposed combination of BMPs will significantly reduce the generation of pollutants and decrease the pollutant load to the East River.

In conclusion, the data indicate that on a gross scale a post-development increase in pollutant loading is projected for the Ferry Point project. However, with the implementation of the various BMPs, the pollutant load generated after the site's development will in fact be less than under existing conditions. As such, the development of the Ferry Point project is not expected to result in in a significant adverse impact to water quality for the above-identified pollutants.

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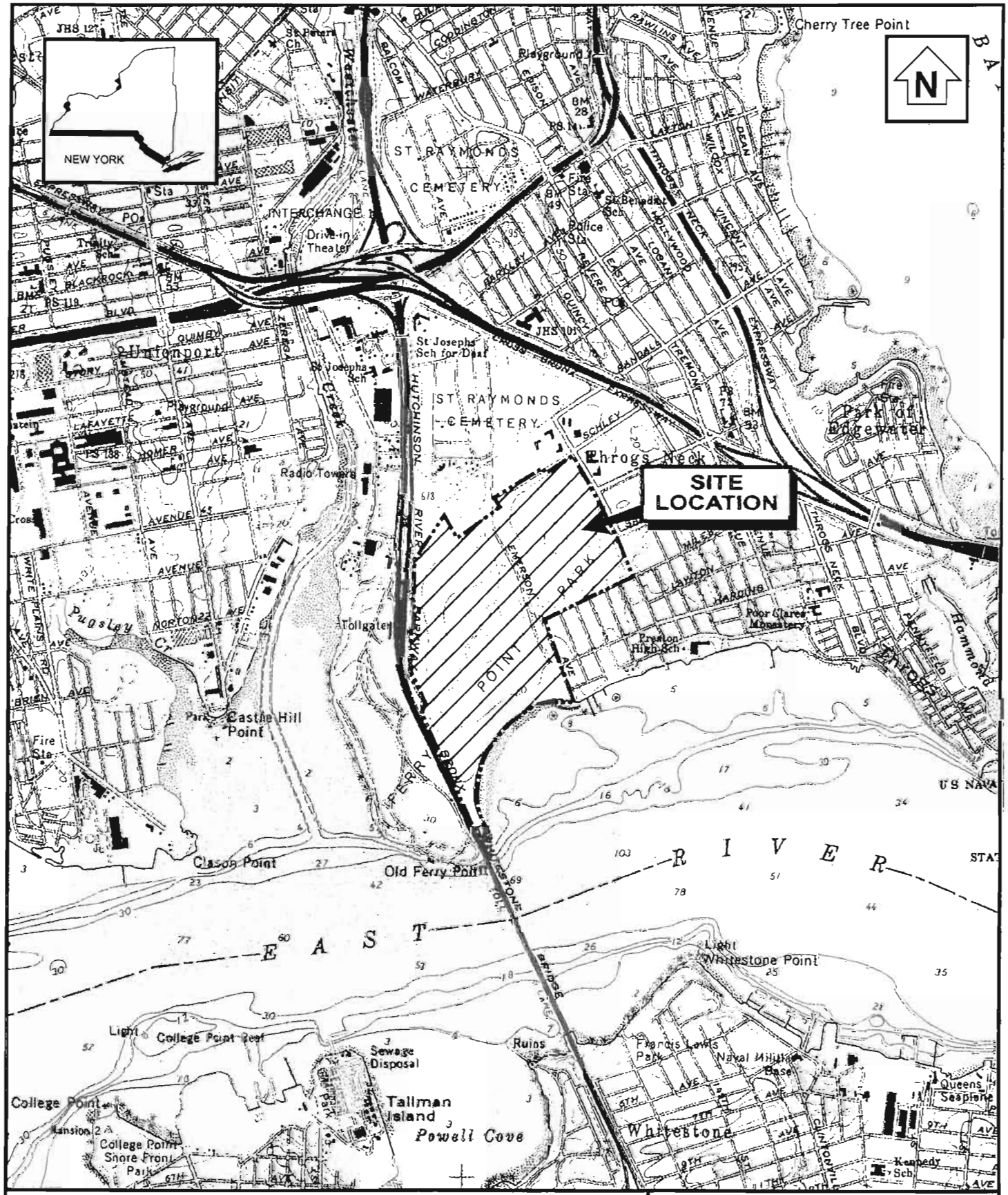

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BASE CREATED WITH TOPO™ © 1996 WILDFLOWERS PRODUCTIONS, www.topo.com
FLUSHING, NY 7.5' USGS TOPOGRAPHIC MAP

TRC Environmental Corporation
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Windsor, Ct 06095
(860) 289-8631

FERRY POINT PARK
BRONX, NEW YORK

FIGURE 1.
SITE LOCATION MAP

Date: 7/99 | Project No. 25800

Figure 2
Boesch, 1993
Appendix

Results of Site File Search and Request for Site Evaluation:
New York Office of Parks, Recreation, and Historic Preservation and New York State Museum

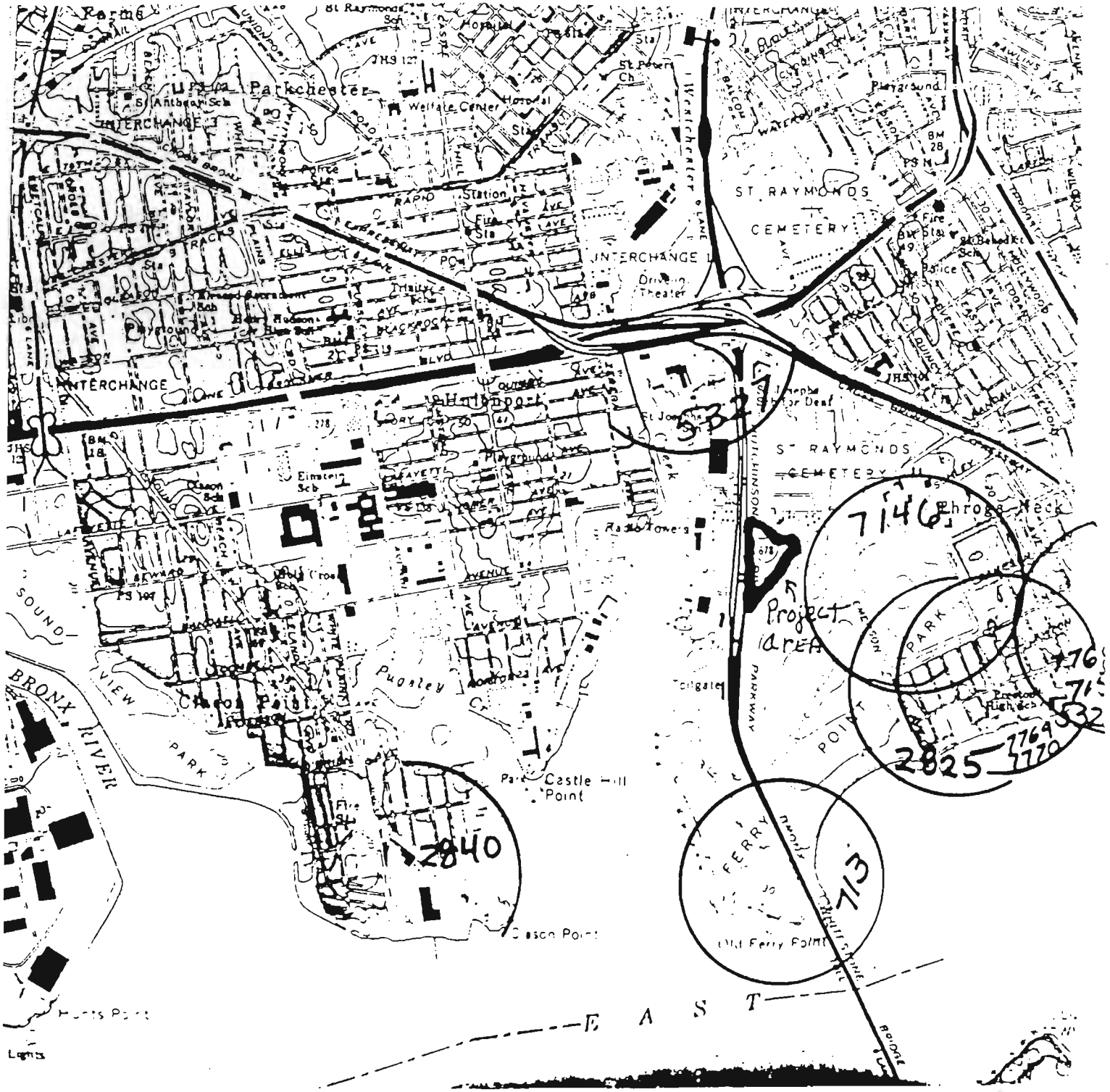

Figure 3
Arthur C. Parker, 1922
page 488/plate 147

Bronx County List of Sites: #3

Extensive shell heaps at Weir Creek Point near Throggs Neck. Mr. Harrington believes it to have been one of the oldest along the sound, judging from the character of the relics disclosed.

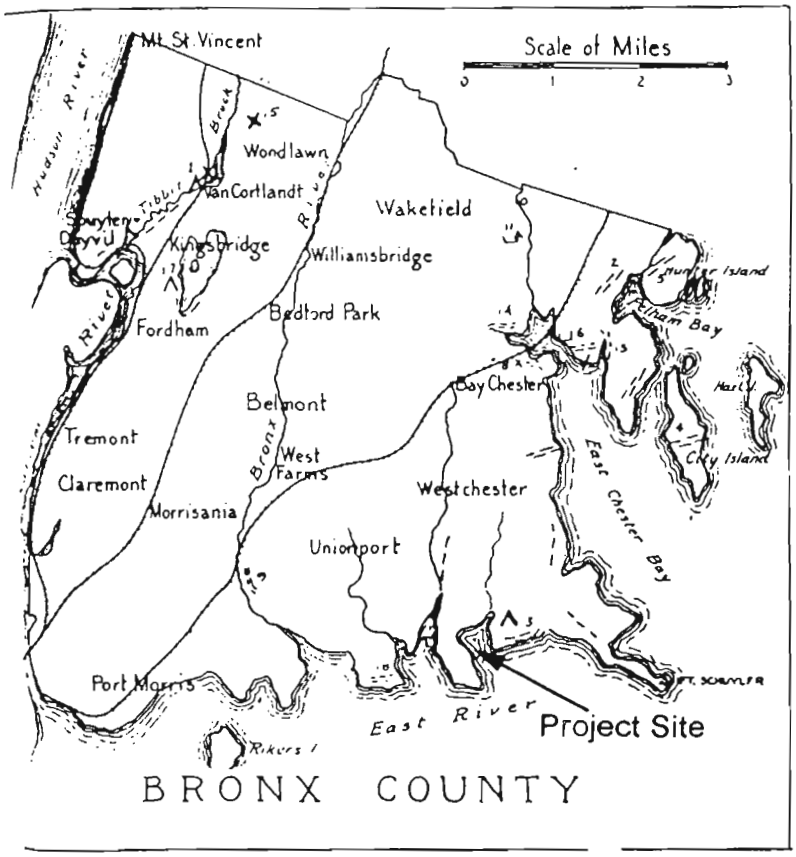

Figure 4
Historical Perspectives, Inc., 1986
Appendix

Results of Site File Search and Request for Site Evaluation:
New York Office of Parks, Recreation. and Historic Preservation and New York State Museum

Figure 5
Archaeological Evaluation and Sensitivity Assessment of the Prehistoric and Contact Period Aboriginal History of the Bronx, NY (Boesch 1997)

[Note: yellow markings are areas designated as "archaeological sensitive"]

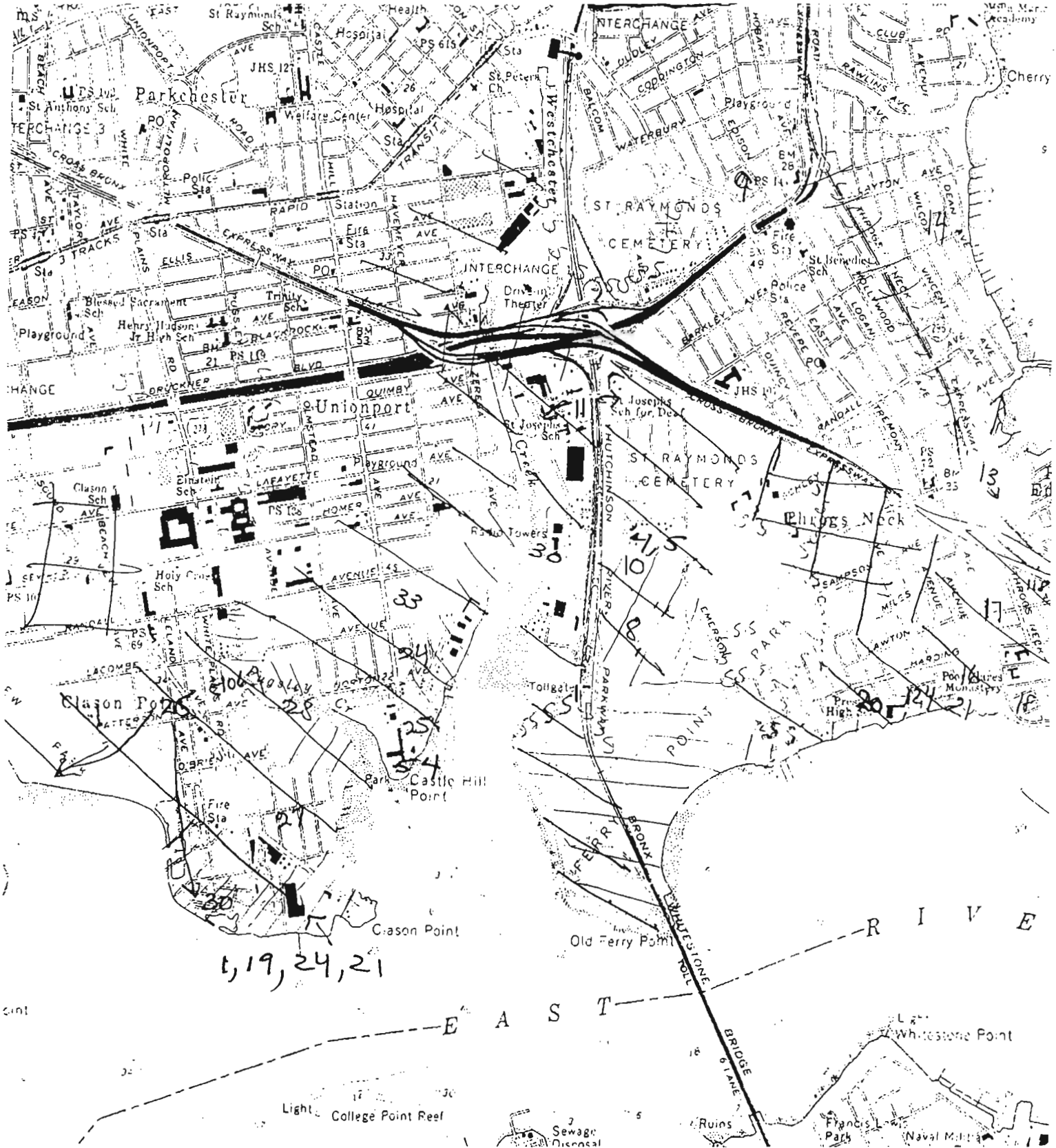

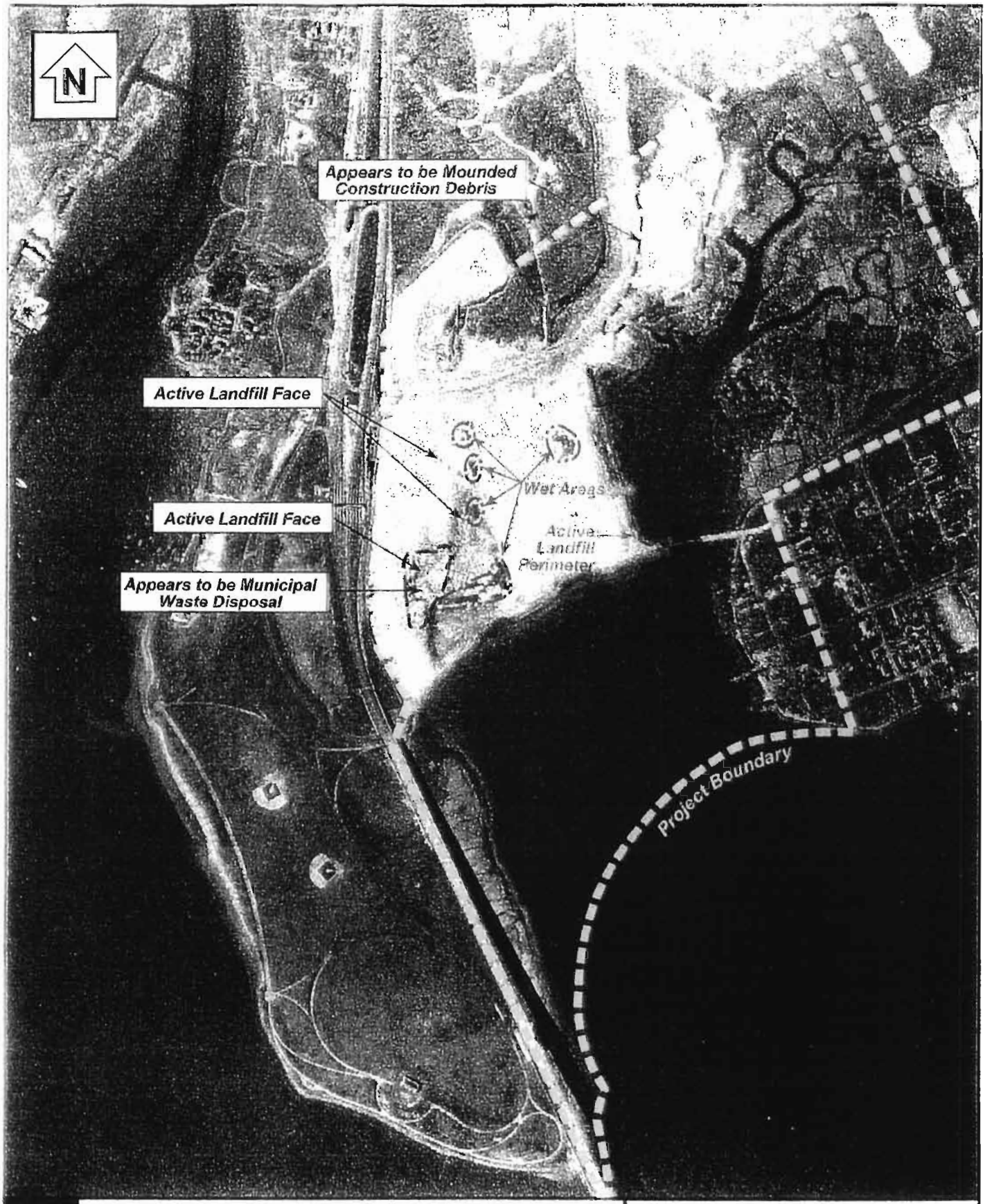

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FERRY POINT LANDFILL
BRONX, NEW YORK

FIGURE 6.
1951 AERIAL PHOTOGRAPH

Date: 7/99 | Project No. 25800

Attachment N: Archaeological Sensitivity

Ferry Point Park
CEQR # 99DPR006X

9/24/99

Discussion: Archaeological Sensitivity

Introduction

Ferry Point Partners, LLC, has proposed the development of a major recreational facility at Ferry Point Park in the Bronx. The project parcel, approximately 222 acres, is situated on the east side of the approach of the Bronx-Whitestone Bridge and is currently undeveloped except for a NYC organic recycling and composting facility, informal dirt bike paths, an informal model airplane area, a ballfield, and a basketball court. In addition to the existing parkland, the project would encompass two unbuilt and undeveloped streets, parts of both Emerson Avenue and Schley Avenue. A project location map is attached as Figure 1 and a photograph of the site also follows.

An Environmental Assessment Statement [EA] for the Ferry Point Park project was filed by the New York City Department of Parks & Recreation on July 30, 1999 (CEQR # 99DPR006X). In a review of the EA (8/5/99), the Landmarks Preservation Commission [LPC] noted that the project parcel had 'No architectural significance.' It did note, however, that the parcel 'May be archaeologically significant' and they requested additional materials. Subsequent to the original EA filing, the project engineers and various consultants have revised the proposed action. These revisions, as they relate to potential archaeological sensitivity, are critical since they limit the total depth of project impact to within the existing twentieth century landfill overburden. The following review, prepared by Historical Perspectives, Inc., addresses the LPC concerns and establishes archaeological sensitivity in relation to the revised (9/22/99) proposed action for the Ferry Point Park project.

Sensitivity Assessment

The LPC notification stated:

> LPC review of archaeological sensitivity models and historic maps indicates that there is potential for the recovery of remains from Native American occupation and human burials on the project site. Accordingly, the Commission recommends that an archaeological

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documentary study be performed for this site to clarify these initial findings and provide the threshold for the next level of review, if such review is necessary (see CEQR Technical Manual 1993).

There is no question that much of the Bronx shoreline is considered archaeologically sensitive and the Ferry Point parcel falls within this general area.[1] LPC's determination is based, in large part, on three factors:

- New York Office of Parks, Recreation, and Historic Preservation and the New York State Museum Sensitivity Model/Evaluation
- New York City Landmarks Preservation *Archaeological Evaluation and Sensitivity Assessment of the Prehistoric and Contact Period Aboriginal History of the Bronx, NY* (Boesch)
- Proximity to St. Raymond's Cemetery

However, none of these factors is specific to the actual landmass within the bounds of the Ferry Point Park project. In order to evaluate the realistic cultural resource potential of the approximately 222 project acres and satisfy the concerns expressed by LPC, the following discussion will address these general evaluation factors in relation to site-specific subsurface conditions.

New York Office of Parks, Recreation, and Historic Preservation and State Museum Sensitivity Model

LPC's concerns may, in part, be founded on the sensitivity models established for other development projects in the Bronx, particularly the adjoining property, St. Raymond's cemetery. In 1993, when St. Raymond's Cemetery proposed a southerly expansion of its interment facilities, repositories of the New York Office of Parks, Recreation and Historic Preservation [NYOPRHP] and the New York State Museum were tapped for information relevant to prehistoric and historic sensitivity surrounding the cemetery lands (Boesch 1993). This report is on file at LPC. In standard Museum response policy, a USGS topo map of the St. Raymond's Cemetery area was annotated with information on prehistoric sites in the vicinity. See Figure 2.

Museum-reported archaeological resources are to be used as indicators of potential sites. However, many of these geographical placements are based on extremely vague descriptions and maps that date to the early 1900s. See Figure 3 for a 1922 source for geographical locations. Museum correspondence regarding these specific sites acknowledges this lack of preciseness. Please note the following Museum descriptions, taken from the 1993 study, as they relate to Figure 2 and Arthur C. Parker's 1922 map, Figure 3:

[1] Detailed archaeological analysis of this area of the Bronx, presenting both the prehistoric and historic resource history and potential, is on file at LPC and not duplicated in this discussion. See Boesch 1993, Historical Perspectives, Inc. 1986, 1987, and 1994, Greenhouse Consultants, Inc. 1988

NYS Museum Site I.D. #	*Alt. Old #*	*Reported: Age Occupation Type*	*[NYS Museum] Remarks*	*7.5' Topo Quad*	*Reporter/ Earlier Reporter*
7146	*ACP Bronx no #*	*village*	*On Parker's Map, it is near his Bronx #3 (NYSM # 2825), but not described in #3*	*Flushing*	*A. C. Parker, 1922*
2825	*ACP Bronx # 3*	*early*	*extensive shell heaps; M. R. Harrington [MNH] believed [ca. 1915] it to be one of oldest along sound; on Parker map, site is just to east of a bay that does not appear on present USGS map.*	*Flushing*	*A. C. Parker, 1922*

These vague descriptions and tentative placements make it impossible to precisely locate the prehistoric shell heaps and villages identified more than 75 years ago on a vastly different landscape. In fact, as can be seen on Figure 4, an earlier Museum-generated annotated map (1987) of the same Bronx shoreline based on the same reported data from the 1920s provides both a different scale and geographical placement for these early sites.

In addition, as the author of the 1993 report stated, the NYSM # 713 is placed erroneously on the USGS quad, indicating more sensitivity to a specific section of the Ferry Point Park land mass than is appropriate.

LPC Sensitivity Model

LPC's concerns may, in part, be founded on the sensitivity model established by their consultant, Eugene Boesch, in *Archaeological Evaluation and Sensitivity Assessment of the Prehistoric and Contact Period Aboriginal History of the Bronx, NY*. Boesch's research into the myriad of reports and maps that relate to archaeological discoveries resulted in a sensitivity assessment that more realistically interprets historic discoveries and places them on today's landscape. Boesch's model, based on the state files and LPC's files and on file at LPC, is also superimposed on the 1:24000 scale USGS Flushing quad map. (See Figure 5.)

This latest evaluation does not necessarily indicate the absolute presence of archaeological resources in Ferris Point Park; rather, it establishes those areas that might be sensitive for Native American resources if subsequent activities have not obliterated the earlier living surfaces. The LPC data base clearly places two prehistoric sites within the northwest edge of the project parcel and establishes sensitivity along the northwest edge of the project parcel. The LPC #s 8 and 10 are based on the early twentieth century reportings discussed above. They are also presented in detail in the

1993 Boesch study of St. Raymond's Cemetery [represented by #s 4 and 5 on Figure 5].

This sensitivity guide was not established on specific details from every discrete parcel along the shore but it does note through its cartographic conventions that a major portion of Ferry Point Park is a former marsh and that former streams, now filled, ran through the eastern sections of the park parcel.

Proximity to St. Raymond's Cemetery

LPC's concerns may, in part, be founded on the proximity to St. Raymond's cemetery. Numerous high-profile archaeological excavations over the past decade have clearly indicated the possibility of locating early cemetery interments outside extant cemetery fence lines. Although the more northerly St. Raymond's Cemetery plots [north of the Bruckner Expressway and removed from the project site] date to an earlier period, the LPC must have assurances that there are no historic interments outside the current limits of St. Raymond's that would be affected by the Ferry Point Park project actions.

The possibility of unidentified St. Raymond's interments within the Ferry Point Park property has already been field investigated and found to be non existent. In 1993, St. Raymond's expansion proposal necessitated an archaeological field investigation of the lands that abut the northwest limits of the park parcel. Also, land that abuts a section of Schley Avenue that is proposed for de-mapping was field tested and no historic-era burials were recovered.

It should be noted that the 1993 trench excavations to determine presence/absence of culture-bearing deposits did not proceed beneath the impact of St. Raymond's proposed interments, approximately 12 to 14 feet below current grade. Archaeological testing of Zones 3 and 4, immediately north of the proposed park, identified landfill at between 8.3 and 14 feet below grade.

Zone 3
Foote and Schley Avenue easements: landfill, 13 - 14 ft below grade; Ground water at 7.5 - 13 ft below grade

Zone 4
Abuts Hutchinson River Parkway: landfill, 8.3 - 13.2 ft below grade/over marsh deposits in some locations; Ground water at 5.5 - 11.1 ft below grade

The 1993 study did not recommend further testing for Zones 3 and 4.

[Note: Prehistoric burials have also been associated with St. Raymond's Cemetery. However, the 1922 notations on [Native American] burials and "shell-pits" in association with St. Raymond's Cemetery refer to the older St. Raymond's Cemetery grounds more than a mile north of Ferry Point Park.]

Depth of Existing Landfill

As the LPC sensitivity model indicates, the vast majority of the Ferry Point Project is former marshland. The EA included a series of twentieth century aerial photographs (1951, 1954, 1959, 1962, 1982, and 1991) that graphically illustrate the former marsh landscape as it disappeared under a massive city-operated landfilling process. A copy of the 1951 aerial is attached as Figure 6.

Two series of soil borings have been conducted at Ferry Point Park, providing a subsurface profile of the depth of landfill and ground water below current grade. These combined results, from more than 15 landfill soil boring tests [B] and 36 hazardous materials tests [TP] conducted by TRC Environmental Corporation of Windsor, CT, provide the following profile.

- Fill depth below current grade is approximately 8 to 47 feet, with an average of approximately 18 feet. TP25, in the western edge of the parcel may have the most shallow landfill overburden at slightly over 7 feet below grade.
- Fill is deeper than the current water table[2] with two exceptions (the fill in test # B5 stops approximately 2 feet above water table and the fill in B1 is one foot above the water table); There does not seem to be any correlation between depth of fill and water table/ test # B6 has fill and water both at 18 ft.
- Water table ranges from 5 to 30 feet below grade, average is about 10 -12 feet below grade; the deepest water table at test # B9 was 30 feet below grade and the most shallow, test # B7, at 5 feet below grade.
- Five borings indicate yellow sand subsoil at approximate termination of fill; these are all located in areas of possible highest elevation prior to landfilling.
- No shellfish material noted. Pther materials founds: brick, nylon, glass, wood, ceramic, vinyl, plastic, etc.
- Only one boring # B1 has a distinct two foot layer of silty clay with organic materials, but at 4 ft below landfill and 3 feet below water table.
- Clay occurs often in substrata.

Project Impact

Prehistoric archaeological sites have been discovered in this general area of the Bronx within the last 12 years. However, sites such as the Pugsley Avenue

[2] The lack of consistency in landfill depths is, in part, due to undifferentiated fill material and a fluctuating water table. However, it is also a reflection of the pre-twentieth century knoll-dotted landscape that was a result of the Pleistocene era. During the Pleistocene, contact stratified drift was deposited during the retreat of glacial ice. The sediment was laid down as the ice remained stationary for a while or from a large piece that broke off and eventually wasted away. The small hillocks were formed as the ice- covered sediment melted and the sediment collapsed around it.

"workshop" reported by Cohn (1988) are removed from the regulated shoreline and not deeply buried under landfill deposits. It is critical to approach the potential of the Ferry Point Park parcel within the limits of the proposed depth of disturbance.

As stated in the project EA of 7/3/99:

> The proposed public recreation center would include a waterfront park of approximately 19.5 acres (including a waterfront esplanade, walkways, kiosks, and a boathouse grill restaurant); a community park of approximately 7 acres (including active and passive recreational areas such as a ballfield, basketball court, and children's recreation area); and a comprehensive golf facility, and fine dining/banquet facility on approximately 195.5 acres.

The existing topography of the proposed recreational facility, including the golf course and community park, is virtually flat. In order to create interesting vistas, contours for the golf course, and usable lounging lawns, additional soils would be brought to the site and, in conjunction with site soils, contoured into a new topography.

Possible below-grade intrusions include landscaping, road constructions, infrastructure systems, an irrigation system, pilings for foundation supports, and artificial lakes. In addition, two buildings - the clubhouse and the banquet facilities hall - may have lower level rooms that would be partially below grade.

Current plans (9/22/99) are for all construction excavation activities, including buildings and contouring for lakes and the golf course, to occur within six feet of the current grade. Based on TRC. Inc.'s Hazardous Materials Study for the EA [Attachment G, Secton 4.0: Impact Assessment, 7/30/99], Chuck Utschig, of JWE Engineering (9/22/99), has stated that none of the proposed construction excavations and removal of soil would be allowed to reach below the existing "waste layer," which is the relatively shallow stratum of "garbage" within the landfill. The landfill overburden will not be penetrated and the even deeper interface of possible undisturbed, buried soil horizons and the landfill will not be disturbed.

Recommendations

As proposed, the Ferry Point Park project would not impact any deeply buried potentially sensitive prehistoric soil levels. Unless project design plans are revised to include excavation impacts to depths below the interface of the landfill and natural soils, no further archaeological consideration is warranted.

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E-2

Bally's Bronx
NYSDEC Part 360 Permit

LANGAN

New York State Department of Environmental Conservation
Division of Environmental Permits, Region 2 Office
47-40 21ST Street, Long Island City, NY 11101-5407
Phone: (718) 482-4997 • **Fax:** (718) 482-4975

Joe Martens
Commissioner

May 21, 2014

Kay Zias
Capital Projects
City of New York Parks and Recreation
Olmstead Center
Flushing Meadows-Corona Park
Flushing, N.Y. 11368

Re: DEC No. 2-6006-00014/000013 (2-6006-00014/00016)
Permit Issuance - Solid Waste Management Facility (Tidal Wetlands)
Ferry Point Park Golf Course, Bronx, NY

Dear Ms Zias:

Enclosed are permits for the referenced facility. Please read all conditions carefully. Please provide a copy of the permit and all attachments to the document repository established for this project.

Special Conditions 28, 29, 32, 37, 38 and 39, among others, specify post permit submittals, please make a note of the submission deadlines. To assist the development of a deed restriction for the project site, Attachment A, to this notice contains draft language of the conditions to be specified in the restrictive covenant.

If you have questions on the specific solid waste management conditions, please contact Sam Arakhan at 718-482- 4894. If you have questions regarding marine resources issues and the development of the waterfront park contact Susan Maresca at 718-482-6464. If you have any other questions regarding the administration of this permit, please contact Michelle Moore at 718-4982-4967.

Sincerely,

John F. Cryan
Regional Permit Administrator

Enclosures

S. Arakhan, DMM, R2
K. Brezner, DMM, R2
D. Menasha, DAR, R2
S. Maresca, DMR, R2
J. Nehila, Esq., DLA, R2
S. Zacharias, DOW, R2
M. Moore, DEP, R2
File

ATTACHMENT A

DECLARATION OF COVENANTS AND RESTRICTIONS

THIS COVENANT made this __ day of _____, 2014, by the City of New York ("City"), a municipal corporation organized and existing under the laws of the State of New York, acting by and through the New York City Department of Parks and Recreation ("DPR") and having an office for the transaction of business 830 Fifth Avenue, New York, New York, 10021, and the New York City Department of Citywide Administrative Services ("DCAS"), having an office for the transaction of business at 1 Centre Street, New York, New York, 10007, in favor of the New York State Department of Environmental Conservation ("Department"), an agency of the State of New York, with offices at 625 Broadway, Albany, New York, 12233;

WHEREAS, DPR has jurisdiction pursuant to the New York City Charter over certain municipal parkland in the Borough and County of the Bronx, New York, known as "Ferry Point Park", which was the site of a former municipal landfill;

WHEREAS, pursuant to the New York State Environmental Conservation Law, Article 27, Title 7 and regulations promulgated pursuant thereto at 6 NYCRR Part 360, the Department has issued DPR a Solid Waste Management Permit (DEC Permit No. 2-6006-00014/00013-0)(the "Permit"), annexed hereto as Attachment A, to construct a Golf Course, Community Park and Waterfront Park (hereinafter "the Project") on the eastern portion of Ferry Point Park, a 222 acre parcel bounded by Bronx-Whitestone Bridge to the West, Balcom, Miles and Emerson Avenues to the East, Schley Avenue and St. Raymond's Cemetery to the North and the East River to the South (the "Site"), said parcel comprising Block 5583, Lot 100 and a portion Block 6522, Lot 1, as shown on the Bronx County Tax Map and more particularly depicted on the map attached hereto as Attachment B;

WHEREAS, the Permittee is authorized to import a total of 2,514,000 cubic yards of in-place fill material to the Site, which fill material shall consist of approximately 2,120,000 cubic yards of select exempt construction and demolition (C&D) debris for the shaping layer, and approximately 394,000 cubic yards of cover material, to be used in constructing the Project;

WHEREAS, Special Condition 17 requires the Permittee to implement a Groundwater Monitoring Program as described in section 4.5 of the Supplemental Engineering Report, Volume 1, dated October 15, 2013 (hereinafter the "Supplemental Engineering Report");

WHEREAS, Special Condition 26 requires the Permittee to perform monthly monitoring of the Landfill Gas Passive Venting Trenches for the duration of the Permit, and, thereafter, to monitor the Landfill Gas Passive Venting Trenches as described in the Supplemental Engineering Report, Volume 3, Appendix F;

WHEREAS, Special Condition 28 requires the Permittee, during the duration of the Permit, to inspect the Landfill Gas Passive Venting Trenches monthly to verify the integrity of the venting trenches and their mulch cover, and, thereafter, to maintain the Landfill Gas Passive Venting Trenches after the completion of construction of the Project, in the manner described in the Supplemental Engineering Report, Volume 3, Appendix F;

WHEREAS, Special Condition 29 requires the Permittee, until the completion of the Project, to conduct monthly monitoring of the depth of ground water in each piezometer installed at the gas venting trenches, and, thereafter, such piezometer monitoring shall be performed in accordance with the Supplemental Engineering Report, Volume 3, Appendix F, Section 6;

WHEREAS, Special Condition 32 requires the Permittee to execute and file a Department approved deed restriction, which shall run with the land in perpetuity, and shall recite and require compliance with the Permit's provisions as regards to the custodial care requirements described in the Supplemental Engineering Report, Volume 3, Appendix I;

WHEREAS, Special Condition 33 requires the Permittee to conduct bi-weekly monitoring of the On and Off-site Gas Monitoring Networks;

WHEREAS, Special Condition 34 requires the Permittee to maintain, and upgrade if required, the On and Off-site Gas Monitoring Networks during facility construction and after completion of the Project;

WHEREAS, Special Condition 35 requires the Permittee, upon Department approval of the Permittee's written post-construction certification report, to implement the custodial care plan described in the Supplemental Engineering Report, Volume 3, Appendix I;

WHEREAS, Special Condition 36 requires Permittee, should the Project be abandoned, to close, monitor and maintain after closure the entire 222 acre Site, in accordance with 6 NYCRR Sect. 360-2.15 as a landfill in operation since 2000;

WHEREAS, Special Conditions 17, 26, 28, 29, 33 and 34, require the installation, maintenance and operation of the Groundwater Monitoring Program, the Landfill Gas Passive Venting Trenches, the piezometers, and the On and Off-site Gas Monitoring Networks, on the perimeter of the site and off-site, for the purposes of monitoring groundwater and Landfill Gas and/or preventing Landfill Gas from migrating from the Site (hereinafter "Engineering Controls") said Engineering Controls being more particularly depicted on the map attached hereto as Attachment C.

WHEREAS, Special Condition 32 of the Permit requires the City of New York to execute and file a deed restriction for the real property beneath the site to run with the land in perpetuity, and that the deed restriction recites and requires compliance with the Permit's provisions as regards to Groundwater monitoring, the maintenance of Landfill Gas venting trenches, the piezometers, the On-site Landfill Gas Monitoring Network, including perimeter monitoring wells, the Off-site Landfill Gas Monitoring Network, and the criteria for abandonment of the site as specified in Special Condition 36 of the Permit;

NOW THEREFORE, pursuant to its terms, this covenant runs with the land and:

(1) requires the maintenance and operation of the Engineering Controls as set forth in Special Conditions 17, 26, 28, 29, 33 and 34 of the Permit;

(2) prevents modification or alteration of the Engineering Controls except as otherwise set forth in Special Conditions 17, 26, 28, 29, 33 and 34 of the Permit or in any subsequent written authorization by the Department or its successor agency;

(3) unless prior written approval by the Department or its successor agency is first obtained, there shall be no construction, use or occupancy of the Site that results in the disturbance or excavation of the Site which threatens the integrity of the Engineering Controls, or which results in unacceptable human exposure to contaminated soils;

(4) the owner of the Site shall not disturb, remove, or otherwise interfere with the installation, use, operation, and maintenance of Engineering Controls required by the Permit and the Supplemental Engineering Report, unless in each instance the owner first obtains a written waiver of such prohibition from the Department or its successor agency;

(5) the owner of the Site shall prohibit the Site from ever being used for purposes other than for the Project described in the Permit, without the express written waiver of such prohibition by the Department or its successor agency;

(6) the owner of the Site shall provide a periodic certification, prepared and submitted by a professional engineer or other environmental professional acceptable to the Department or its successor agency, which will certify that the Engineering Controls put in place are unchanged from the previous certification, comply with the Permit and the Supplemental Engineering Report, and have not been impaired;

(7) this Declaration is and shall be a covenant that shall run with the land and shall be binding upon all future owners of the Site, and shall provide that the owner and its successors and assigns consent to enforcement by the Department or its successor agency of the prohibitions and restrictions that the Permit requires be recorded, and hereby covenant not to contest the authority of the Department or its successor agency to seek enforcement;

(8) any deed of conveyance of the Site, or any portion thereof, shall recite, unless the Department or its successor agency has consented to the termination of such covenants and restrictions, that said conveyance is subject to this Declaration of Covenants and Restrictions;

(9) in the event that the Project is abandoned, requires closure, monitoring and maintenance of the Site as a landfill in operation since 2000, in accordance with 6 NYCRR Part 360-2.15 and Special Condition 36 of the Permit; and

(10) may be modified by mutual agreement of the City or its successors and the Department or its successor agency.

IN WITNESS WHEREOF, the undersigned have executed this instrument on the day(s) written below.

_____
New York City Department of Parks and Recreation

Sworn to before me
this ____ day of _____, 201__

_____
Notary Public

Approved as to form
this ____ day of _____, 201__

_____
Assistant Corporation Counsel

_____
Department of Citywide Administrative Services

Sworn to before me
this ____ day of _____, 201__

_____
Notary Public

Approved as to form
this ____ day of _____, 201__

_____
Assistant Corporation Counsel

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DEC PERMIT NUMBER:		EFFECTIVE DATE:
2-6006-00014/00013 (SW) 2-6006-00014/00016 (TW)	PERMIT Under the Environmental Conservation Law (ECL)	May 21, 2014
FACILITY: Ferry Point Park Golf Course		**EXPIRATION DATE:** May 20, 2024

TYPE OF PERMIT: ☐ New ☒ Renewal ☒ Modification ☐ Permit to Construct ☐ Permit to Operate

☒ Article 27, Title 7; 6 NYCRR 360: Solid Waste Management

☐ 6 NYCRR 608: Water Quality Certification

☐ Article 15, Title 15: Long Island Wells

☐ Article 17, Titles 7, 8: SPDES

☒ Article 25: Tidal Wetlands

☐ Article 15, Title 5: Protection of Waters

PERMIT ISSUED TO:	TELEPHONE :
Owner and Operator: NYC Department of Parks and Recreation	212-360-8111(NYCDPR)
ADDRESS OF PERMITTEE: NYCDPR, 830 5th Avenue, New York, NY 10021-7001	
CONTACT PERSON FOR PERMITTED WORK: Kay Zias	**TELEPHONE :** 718-760-6748

PROJECT/FACILITY NAME: Ferry Point Park Golf Course Construction

PROJECT/FACILITY ADDRESS: Eastern portion of Ferry Point Park, bounded by the Bronx Whitestone Bridge, Balcom, Miles and Emerson Avenues, Schley Avenue and the East River, Bronx County. Block 5583, Lot 100, Block 5622, Lot 1

DESCRIPTION OF AUTHORIZED ACTIVITY:

Construction of a Golf Course, Community Park and Waterfront Park on 222 acres of Ferry Point Park, requiring a total of approximately 2,514,000 cubic yards of material in-place volume. This material will be imported to the Site by truck and consist exclusively of: 1) recognizable and uncontaminated concrete or concrete products (including steel or fiberglass reinforcing rods that are embedded in the concrete), brick, soil, sand, gravel, and rock (hereafter referred to in this permit as select exempt construction and demolition debris) totaling approximately 2,120,000 in-place cubic yards for the shaping layer, and 2) approximately 394,000 in-place cubic yards of cover material. The imported material will be used to attain the final approved grades and contours.

All work associated with the authorized activity described above shall comply with all of the applicable provisions of 6 NYCRR Part 360 (Solid Waste Management Regulations), effective 29 September 1997. By acceptance of this permit, the Permittee agrees that this permit is contingent upon strict compliance with the ECL, all applicable regulations, and the General Conditions and Special Conditions included herein.

REGIONAL PERMIT ADMINISTRATOR:	ADDRESS:	
John F. Cryan	NYS Department of Environmental Conservation 47-40 21st Street, Long Island City, NY 11101	
AUTHORIZED SIGNATURE: John F. Cryan	DATE May 21, 2014	Page 1 of 17

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The Permittee has accepted expressly, by the execution of its application for the subject work, the full legal responsibility for all damages and costs, direct or indirect, of whatever nature and by whomever suffered, for liability it incurs resulting from activity conducted pursuant to this permit or in noncompliance with this permit and has agreed to indemnify and save harmless the State from suits, actions, damages, and costs of every name and description resulting from such activity.

Item B: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the Permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the subject work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

GENERAL CONDITIONS

General Condition 1: Facility Inspection by the Department

The subject facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the Permittee is complying with this permit and the ECL. Such representative may order the subject work suspended pursuant to ECL 71-0301 and SAPA 401(3).

The Permittee must provide a person to accompany the Department's representative during an inspection of the subject facility when the Department provides written or verbal notification to the Permittee at least 24 hours prior to such inspection.

A copy of this permit, including all general and special conditions therein, all amendments thereto, and all documents referenced therein must be available for inspection by the Department at the project site at all times that activity associated with the subject work is occurring. Failure to produce a copy of such permit, conditions, amendments, or documents upon request by a Department representative is a violation of this permit.

Any sign provided by the Department with this permit must be protected from the weather and posted in a conspicuous location at the subject work site throughout the period during which any of the subject work occurs.

General Condition 2: Relationship of this Permit to Other Department Orders and Determinations

Unless expressly provided for by the Department, this permit does not modify, supersede, or rescind any order or determination previously issued by the Department or any of the terms, conditions, or requirements contained in such order or determination.

General Condition 3: Applications for Permit Renewals or Modifications

The Permittee must submit a separate written application to the Department for renewal, modification, or transfer of this permit, including but not limited to a change in facility operator. Such application must include any forms or supplemental information the Department requires. Any renewal, modification, or transfer granted by the Department must be in writing. The Permittee must submit a renewal application at least:

a) 180 days before expiration of permits for State Pollutant Discharge Elimination System (SPDES), Hazardous Waste Management Facilities, major Air Pollution Control (APC) and Solid Waste Management Facilities; and
b) 30 days before the expiration of all other permit types.

Submission of applications for permit renewal, modification, or transfer are to be submitted to:
NYSDEC Regional Permit Administrator, Region 2, 47-40 21 Street, Long Island City, NY 11101 (tel. 718/482-4997).

General Condition 4: Permit Modifications, Suspensions, and Revocations by the Department

The Department reserves the right to modify, suspend, or revoke this permit when:

a) the scope of the permitted activity is exceeded or a violation of any condition of the permit or provisions of the ECL and pertinent regulations is found;
b) the permit was obtained by misrepresentation or failure to disclose relevant facts;
c) new material information is discovered; or
d) environmental conditions, relevant technology, or applicable law or regulation have materially changed since the permit was issued.

General Condition 5: Compliance with Other Regulatory Requirements

The Permittee is responsible for obtaining any other permits, approvals, lands, easements, and rights-of-way that may be required for the subject work. The Permittee and its independent contractors, employees, agents, and assigns must comply with all applicable local, State, and federal regulatory requirements.

General Condition 6: Permittee to Ensure that its Contractors to Comply with Permit

The Permittee must ensure that its independent contractors, employees, agents, and assigns read, understand, and comply with this permit, including all General and Special Conditions herein, in general, and General Condition No. 5, above, in particular. Such persons must be subject to the same sanctions for violations of this permit as those prescribed for the Permittee.

ADDITIONAL GENERAL CONDITIONS FOR ARTICLE 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

7. That if future operations by the State of New York require an alteration in the position of the structure or work herein authorized, or if, in the opinion of the Department it shall cause unreasonable obstruction to the free navigation of said waters or flood flows or endanger the health, safety or welfare of the people of the State, or cause loss or destruction of the natural resources of the State, the owner may be ordered by the Department to remove or alter the structural work, obstructions, or hazards caused thereby without expense to the State, and if, upon the expiration or revocation of this permit, the structure, fill, excavation, or other modification of the watercourse hereby authorized must not be completed, the owners, must, without expense to the State, and to such extent and in such time and manner as the Department may require, remove all or any portion of the uncompleted structure or fill and restore to its former condition the navigable and flood capacity of the watercourse. No claim shall be made against the State of New York on account of any such removal or alteration.
8. The State of New York must in no case be liable for any damage or injury to the structure or work herein authorized which may be caused by or result from future operations undertaken by the State for the conservation or improvement of navigation, or for other purposes, and no claim or right to compensation shall accrue from any such damage.
9. All necessary precautions must be taken to preclude contamination of any wetland or waterway by suspended solids, sediments, fuels, solvents, lubricants, epoxy coatings, paints, concrete, leachate, or any other environmentally deleterious materials associated with the project. Any creosote-treated lumber must be weathered for at least six months before it is brought to the subject work site.
10. Any material dredged in association with the work herein permitted must be removed evenly, without leaving large refuse piles, ridges across the bed of a waterway or flood plain, or deep holes that may have a tendency to cause damage to navigable channels, the banks of a waterway, water quality, sediment quality, or benthic habitat.
11. There must be no unreasonable interference with navigation by the work herein authorized.
12. If upon the expiration or revocation of this permit, the project hereby authorized has not been completed, the Permittee must, without expense to the State, and to such extent and in such time and manner as the Department may require, remove all or any portion of the uncompleted structure or fill and restore the site to its former condition. No claim shall be made against the State of New York on account of any such removal or alteration.
13. If granted under Article 36, this permit does not signify in any way that the project will be free from flooding.
14. If granted under 6 NYCRR Part 608, the Department hereby certifies that the subject project will not contravene effluent limitations or other limitations or standards under Sections 301, 302, 303, 306, and 307 of the Clean Water Act of 1977 (PL 95-217) provided that all of the conditions listed herein are met.
15. In accordance with Title 19, Part 600.4 (c) of the New York Code of Rules and Regulations, the Department hereby certifies that the action described and approved in this permit, if located within the Coastal Zone, is consistent to the maximum extent practicable with the policies and purposes of the New York City Waterfront Revitalization Program.

SPECIAL CONDITIONS

Site Work

1. All activities authorized by this permit shall conform to all documents supporting the original permit, DEC No. 2-6006-00014/00011, dated July 17, 2000 ,and modified October 18, 2002 , November 18, 2005 and December 27, 2005 as modified by the following:

- Technical Environmental Assessment for the Ferry Point Park Recreation Facility prepared by Allee, King, Rosen and Fleming dated February 11, 2002 and amended September 29, 2004;
- Geotechnical Engineering Study prepared by Langan Engineering and Environmental Services, Inc. dated July 2, 2002;
- Response to Request for Additional Information prepared by TRC Raymond Keyes Associates dated July 2, 2002;
- Fill Procurement Protocol shall be as per the Department letters dated May 21, 2001 and May 23, 2001 from John Nehila to Steve Kass;
- Ferry Point Park: Offsite Methane Monitoring-Bronx, New York prepared by AKRF, Inc., October 12, 2001;
- Landfill Gas (LFG) Passive Vent Trench Along Miles And Emerson Avenues Plan and Detail, V-1, Sheet 1 of 4 prepared by TRC with checked date 02/04/02 ;
- Landfill Gas (LFG) Passive Vent Trench Along Balcom, Miles And Schley Avenues Plan and Detail, V-2, Sheet 2 of 4 prepared by TRC with checked date 02/04/02 ;
- Landfill Gas (LFG) Passive Vent Trench Along Northern Property Boundary Plan and Detail, V-3, Sheet 3 of 4 prepared by TRC with checked date 02/04/02;

SPECIAL CONDITIONS
ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

- LFG Vent Trench and Piezometer Network Profile, V-4, Sheet 4 of 4 prepared by TRC with checked date 02/04/02;
- Landfill Gas (LFG) Passive Vent Trench Along Balcom, And Schley Avenues Plan and Detail, C-2, Sheet 1 of 1 prepared by TRC with checked date 07/20/01;
- Landfill Gas (LFG) Passive Vent Trench Along Balcom between Sampson & Dewey Avenues Plan and Detail, C-1, Sheet 1 of 1 prepared by TRC with checked date 03/09/01;
- Volume#1, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY, Engineering Report, prepared by TRC Raymond Keyes Associates, dated June 30, 2005. (revised)
- Volume #2, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY, Engineering Report, prepared by TRC Raymond Keyes Associates, dated June 30, 2005.
- Settlement Evaluation and Long Term Monitoring Plan, Ferry Point Golf Course, Ferry Point Park, Bronx, NY, prepared by Langan Engineering and Environmental Services, Inc., dated January 26, 2005.
- Response to Department Comments prepared by TRC Raymond Keyes Associates, dated August 2, 2005 and by Langan Engineering and Environmental Services, Inc., dated June 30, 2005.
- Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY, "Second Supplement to Engineering Report," prepared by TRC Raymond Keyes Associates, dated August 23, 2004.
- Site plans labeled "Ferry Point Park Public Recreational Facility Bulk Earthwork, Ferry Point Park Public Recreation Facility, Ferry Point Park, Bronx, New York" prepared by TRC Raymond Keyes Associates, dated April 22, 2005 (revised) consisting of drawings:

    - GC-2, G1 and G-2 dated 7/01/05 (last revised);
    - G-3, and G-4 dated 1/21/05 (last revised);
    - D-1 dated 7/1/04 (last revised);
    - D-2 dated 7/1/05 (last revised);
    - V-1, V-2, V-3 and V-4 dated 02/04/04 (last revised);
    - C-1 dated 3/09/01 (last revised);
    - C-2 dated 7/20/01;
    - SW-1.00 dated 4/13/04;
    - SW 1A.01 dated 2/18/04;
    - SW 1B.01 and SW 1b.02 dated 4/13/04;
    - Irrigation Design Phase 1 Ferry Point Park Approval Set, labeled "Ferry Point Park 0514-AS-R04-060704, Phase 1 Approval Set" dated 06/07/04 (last revised), sheets numbered 1, 2, 3 and 4 dated 5/22/03 and sheets numbered I, II and III dated 5/22/03

- Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East Bronx, NY, Vol. 1 - 3 dated May 31, 2012 and last revised October 15, 2013.

SPECIAL CONDITIONS
ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

2. Activities authorized by this permit include development of a golf course and parks, as well as the construction of associated structures, utility lines, gas venting and control systems. All aspects of the project must be constructed in accordance with the Department approved design plans, specifications and documents noted in Special Condition # 1. All physical aspects of the project including project location referenced in this permit shall be referred to as the "Site." All construction aspects of the permitted activities referenced in this permit shall be referred to as the "Project."

3. In accordance with "Item A" of the Notification of Other Permittee Obligations" found on page 2 of this permit, the Department in general accepts no liability for the structural integrity and/or the adequacy of the buildings and/or foundation designs of the proposed buildings or other structures associated with the development of the golf course. In addition, the Department specifically does not guarantee nor accept liability in regards to the measures proposed to prevent the subsidence of any buildings, foundations and other structures built on or adjacent to the Site, or to prevent the migration of explosive gas.

4. All operations at the Site shall occur Monday through Saturday during daylight hours, between sunrise and sunset, unless otherwise authorized by the Department.

5. All truck traffic entering and leaving the Site shall use only authorized truck traffic routes, and conform to the construction traffic management plans noted in Exhibit K of Volume #1, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, New York, Engineering Report, prepared by TRC Raymond Keyes Associates, dated June 30, 2005 (revised).

a) All truckers shall receive written instruction on the truck access routes to and from the Site.

b) All trucks entering the site shall be tarped or sufficiently covered to comply with local and state highway regulations. The Site access and exit routes shall be maintained so that they are free from dust, dirt and debris resulting from the truck traffic.

6. Short-term settlement monitoring must strictly conform to the recommendations listed in the Settlement Evaluation and Long Term Monitoring Plan, Ferry Point Golf Course Ferry Point Park, Bronx, NY, prepared by Langan Engineering and Environmental Services, Inc., dated January 26, 2005. As construction progresses and long term plates are installed, short term plates do not need to be re-installed.

7. The long-term settlement monitoring must strictly conform to the recommendations listed in the Settlement Evaluation and Long Term Monitoring Plan, Ferry Point Golf Course Ferry Point Park, Bronx, NY, prepared by Langan Engineering and Environmental Services, Inc., dated January 26, 2005.

a) The long-term monitoring shall be performed for locations shown in Appendix H of the October 15, 2013 supplemental engineering report as described in Appendix I of the October 15, 2013 supplemental engineering report.

b) All monitoring points must be maintained in proper working condition. If any points are unable to be sampled for any reason, they must be repaired within two weeks of such detection and re-tested.

Fill Importation

8. The Permittees are authorized to import a total of 2,514,000 cubic yards of in-place fill material to the Site. The fill material shall consist of approximately 2,120,000 cubic yards of select exempt construction and demolition (C&D) debris for the shaping layer, and approximately 394,000 cubic yards of cover material. The imported material shall be used on Site to attain the final approved grades and contours approved by the Department, and referenced on plans made a part of this permit.

a) The use of asphalt as fill material on the Site is prohibited.

b) The use of dredge spoils as fill material on the Site is prohibited.

c) There shall be no mechanical separation of steel and fiberglass reinforcing rods from concrete and concrete products at the Site.

d) No size reduction or material processing may occur on Site, except with earth moving equipment in the course of placement. However, the breakdown and removal of stumps and wood previously left on Site by the New York City Department of Sanitation (DOS) is permitted.

e) All solid waste material excavated from the Site shall be properly secured immediately, and then removed from the Site and legally disposed of within seven (7) days.

f) All unauthorized solid waste or fill material found on the Site shall be properly secured immediately, and then removed and legally disposed of within five (5) days of its discovery by Permittees.

g) All select exempt construction and demolition (C&D) debris for the shaping layer and the cover layer material must be free of all non-exempt C&D recognizable debris.

9. The quantification of all imported fill material shall be continuously tracked by both truck volume, and periodic topographic survey of the imported in-place fill volume. Since compacted in-place fill volumes will not equal truck volumes of fill, a 41.7 percent (41.7%) correction factor shall be applied for shaping layer material and a correction factor of 18 percent (18%) shall be applied for cover material. The correction factor for converting truck volume into in-place volume may be modified by the Department.

10. The Permittees must cease the importation of fill material if:

a) The final approved grades are attained prior to the permitted amount of fill material being imported;

b) 2,120,000 cubic yards of select exempt construction and demolition debris for the shaping layer, as measured by in-place fill volume determined through topographic survey, are accepted. All material imported to the Site is considered shaping layer material, unless testing determines otherwise; or

c) 394,000 cubic yards of cover layer material, as measured by in-place volume, are accepted.

SPECIAL CONDITIONS

ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

11. Use of fill material from DEC registered construction and demolition debris processing facilities (DEC registered C&D facilities or registration facilities) requires written Departmental approval. Such requests must be submitted to the Department for approval not less than ten (10) business days prior to any proposed date for importation from the new locations. No fill material may be received from unapproved facilities or locations. DEC registered construction and demolition debris processing facilities (DEC registered C&D facilities or registration facilities) may be used to obtain select exempt construction and demolition debris for fill material to the Department for its approval prior to use. The subsequent transportation and use of fill material from other additional registration facilities requires written Departmental approval. Such requests must be submitted to the Department for approval not less than ten (10) business days prior to any proposed date for importation from the new locations. No fill material may be received from unapproved facilities or locations.

12. Select exempt construction and demolition debris to be used as fill material at the Site may be accepted from DEC registered C&D facilities as approved pursuant to Special Condition #11, provided that the facilities segregate and clearly mark each stockpile with a specific identification number, the date each stockpile was started and the date when it was sampled by the Permittees. The Department shall be notified by Permittees at least 24 hours before any sampling event at a DEC registered C&D facility. All sampling reports shall be transmitted to the Department or the IEM directly from the certified testing laboratory.

13. The Permittee shall be responsible for ensuring that cover layer material is procured from a DEC approved source, and it meets all permit specifications.

a) If cover layer material is manufactured, the soil used in its manufacture must not originate from any industrial sites, brownfield site, historical fill site or DEC registered C&D facilities.

14. The Permittee shall be responsible for ensuring that the shaping and cover layer materials meet sections 4.2.1 and section 4.3 of the October 15, 2013 Supplemental Engineering Report, Volume 1, as well as the following:

a) In order for select exempt construction and demolition debris material to be used on Site, it must be sampled both prior to acceptance and after the importation of each additional 10,000 cubic yards (in truck volumes). Each soil sample is to be analyzed for Toxicity Characteristic Leachate Procedure (TCLP), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and metals (including Resource Conservation and Recovery Act (RCRA) metals).

b) Cover layer material must be sampled prior to acceptance and after the importation of each additional 2,000 cubic yards (in truck volumes). Each soil sample is to be analyzed for the entire analyte list in the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046, total volatile organic compounds (VOCs), total semi- volatile organic compounds (SVOCs), pesticides and herbicides, polychlorinated biphenyls (PCBs), and metals (including Resource Conservation and Recovery Act (RCRA) metals).

c) The shaping layer must meet the following chemical limits:

i. Total carcinogenic SVOC levels (weighted average as calculated by formula provided in 10/25/06 letter from NYSDEC) must be less than 3 ppm by completion of construction; maximum carcinogenic SVOCs level from individual source must be 10 ppm or less. The following are the list of carcinogenic SVOCs that are subject to this 3 ppm limit: Benzo(a)pyrene, Dibenzo(a,h)anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Indeno(1,2,3-cd)pyrene, Benzo(k)fluoranthene, and Chrysene.

ii. Total SVOCs must be less than 500 ppm

iii. Metals:

- Arsenic less than 28 ppm;
- Barium less than 2,000 ppm;
- Cadmium less than 20 ppm;
- Chromium less than 1,000 ppm;
- Copper less than 1000 ppm;
- Lead less than 400 ppm;
- Mercury less than 0.57 ppm
- Selenium less than 11 ppm
- Silver less than 100 ppm

iv. Asbestos for all layers must be 0.5% or less

v. Total sulfur for all layers must be 0.5% or less

vi. Total PCBs less than 10 ppm

vii. Total Pesticides less than 10 ppm

viii. VOCs (all individual analytes less than TAGM 4046)

d) The final placement of shaping and cover layer materials is subject to installation of a demarcation layer at locations where combined shaping and cover layers thickness are less than five (5) feet.

e) All shaping and cover layer material placed after the final placement of shaping and cover layer must meet the 6NYCRR Part 375 protection of public health restricted residential Part 375-6.8(b) SCOs.

15. The major components (greens, contours, heights and top soil) of the cover layer shall meet the Nicklaus Design Technical Specification, as noted in Exhibit C of the June 30, 2005 Engineering Report, and as follows:

- Greens - Greens mix imported to the site shall be tested as per material testing requirements. Fertilizer and soil amendments may be applied on the greens mix after spreading to construction specifications and finally grassed, as per the specifications provided by the agronomist.
- Topsoil - Topsoil imported shall be consistent with native topsoil, and shall be free of rock and debris greater than three quarters of an inch, as per Exhibit C of the Engineering Report. Soil amendments, fertilizer applications and seed may be applied to tee, fairway and rough areas, as per Exhibit C of the June 30, 2005 Engineering Report.

16. The Department may conduct joint sampling or take split samples as necessary for verification purposes.

Groundwater

17. The Permittee shall implement a groundwater monitoring program as described in section 4.5 of the Supplemental Engineering Report, Volume 1, dated October 15, 2013.

Fill Progression Monitoring

18. The Permittee shall place grade stakes indicating elevations for proposed final grades of fill and cover material.

19. The Permittee shall place benchmarks throughout the Site, in a manner acceptable to the Department, for the purpose of periodically measuring and surveying fill elevations. Benchmarks are to be maintained at all times. If it becomes necessary, they shall be repaired promptly.

Project Completion Schedule

20. The project shall progress according to the Construction Schedule provided in Volume #1, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY, Engineering Report, prepared by TRC Raymond Keyes Associates, dated June 30, 2005 (as revised), Exhibit A, and as updated in section 3.1 of the Supplemental Engineering Report dated October 15, 2013. The effective date for implementation of the construction schedule is the effective date of this permit.

21. In accordance with the approved plan in Special Condition #1, placement of fill material in each section of the Site shall not exceed the designed and approved final contours for each section.

22. Only cover material may be stockpiled in a section upon completion of the placement of fill material for the shaping layer in that section as per design calculations. In addition, cover material may be stockpiled in a section where the completion of fill placement has not occurred, if such stockpile is segregated and secured from construction and demolition debris used for the shaping layer.

23. Upon completion of filling operations to approved grades in a section, the Permittees shall commence the rough shaping and placement of cover material, and the installation of drainage, irrigation and utilities, as per Construction Schedule noted in Special Condition # 20. Prior to placement of this cover material, Permittee must comply with the requirements of Special Condition # 15(d).

Independent Environmental Monitor

24. An Independent Environmental Monitor (IEM), accountable to the Department, shall be retained by the Permittee to provide environmental oversight of all activities authorized by this permit for the duration of its permitted term, including, but not limited to, the quantification, importation and placement of fill, and the monitoring of the Site.

SPECIAL CONDITIONS

ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

a) It shall be the IEM"s responsibility to provide notice of any deviation from the activities authorized by this permit and any deviation from New York State Environmental Regulations (6NYCRR Part 360) to the Department immediately, but in no event later than 24 hours after such deviation is detected. This notification must include the date and time of the potential non-compliance, the nature of the non-compliance, any corrective action, and any additional measures the IEM will be undertaking to track the issue until corrected. Should the IEM be uncertain as to whether such a deviation has occurred, the matter shall be promptly reported to the Department for a determination. For the purposes of this permit, a deviation(s) shall mean any of the following:

i. An apparent violation of any condition of this permit;

ii. An apparent violation of Federal, State or Local Law;

iii. A material difference between construction or monitoring data obtained by the Permittees or their consultants, and that obtained by the IEM;

iv. Any receipt of fill that does not meet the specifications authorized in this permit;

v. Any receipt of fill from a site not authorized under the permit or by the Department.

vi. Any condition, activity or occurrence that may endanger or pose a threat to public health, safety or the environment.

b) Notwithstanding any other reporting this permit requires, the IEM shall submit a detailed written report to the Department no less frequently than every three months detailing the IEM"s activities at the Site, the estimated total volume of fill material (including cover material) received during the reporting period based on truck volume, the total volume of fill in place at the Site, the percentage of filling to final grades, and the number(s) of trucks prohibited from entering the Site. The report also shall summarize any site meetings amongst the Permittee, its consultants or others, verify that all samples taken and monitoring done at the Site by the Permittee or consultants conform to this permit, detail any substantive change in the condition of the Site or project, fully explain any deviations occurring during the reporting period and their disposition, and describe any other occurrence, circumstance or condition that may have a bearing upon the safe and environmentally sound operation of the Project or Site.

c) The IEM must be approved by the Department prior to the finalization of any contractual agreement with the Permittee, and the initial receipt of any fill material at the Site.

d) The continued retention, discharge, or replacement of the IEM shall be at the sole discretion of the Department. The Permittee waive any right to seek judicial review of the Department's exercise of that discretion. The Permittees must fully pay all invoices and bills from the IEM within sixty days of submission. The IEM or its Department approved representative shall be present on Site whenever it is open. Under no circumstances shall Project activities, including the receipt or management of fill, take place while the IEM or its designated representative is absent from the Site.

SPECIAL CONDITIONS

ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

e) The Department shall have access to any information obtained by the IEM at any time. The IEM shall keep all information including, but not limited to, fill records, inspection reports, field notes, monitoring data, graphics, databases, financial records, minutes of meetings and other information in a form approved by the Department

f) The IEM, if an individual, shall possess a New York State Professional Engineer license. If an engineering firm serves as the IEM, the firm must provide an employee of that firm who is a New York State licensed professional engineer to perform all functions and certifications noted in Section 1.1 of the Engineering Report referenced in Special Condition No. 1 above. In addition, the IEM shall:

i. monitor all aspects of the Permittees" fill operations at the Ferry Point Park ("FPP") facility;

ii. have unrestricted access to all personnel employed by the Permittee at the FPP facility, and to all files and records maintained by the Permittees at the FPP facility pursuant to this permit;

iii. inspect the proposed sources of fill, review the documentation about the sources of the material, including without limitation, any off-site sampling, and certify as to the acceptability of the material for use at the Site, in accordance with the criteria specified in the Engineering Report, Section 2. The IEM shall notify the Department at least 24 hours before any on-site sampling;

iv. visually inspect each truckload of imported fill material at the Site, and undertake reasonable verification activities including directing, where appropriate, verification sampling, analysis and certification by the IEM on a Project specific tracking form that it meets criteria for acceptable fill at the Site;

v. inspect each truckload of material upon its dumping on Site with a Photo-Ionization Detector (PID).

vi. prohibit any truck from leaving the dumping area before the load has been inspected, and the manifest signed by the IEM. If any load is rejected, the rejected fill material shall be reloaded onto the same truck immediately and legally transported off-site. However, if the rejected fill material is a DEC regulated solid waste or hazardous waste, it must be segregated immediately and secured on-site, until it is removed by a DEC permitted hauler for appropriate disposal. Such regulated or hazardous waste must be removed from the Site within 3 days of its discovery;

vii. monitor the off loading of all material at the unloading station. No truck shall be allowed to off load unless the IEM is present. Such truck shall only be allowed to leave the station after the load is tested and found acceptable.

viii. certify that the sampling of material at the project Site conforms to the permit requirements, and review the results of all laboratory tests;

ix. notify the Department daily about the receipt of unacceptable material or any violations of conditions set forth in this permit;

x. maintain files on Site of fill sampling data, site histories, and internal manifest (tracking) forms;

xi. report and certify to the Department that the on-site gas well monitoring has been conducted as required by this permit. Notify the Department immediately if levels exceed 25% of the lower explosive limit (LEL) in any gas monitoring well;

xii. certify that: (a) all grades of the shaping layer of a section are correct prior to the placement of cover material on that section; (b) a minimum of two feet of fill material covers the existing municipal solid waste layer; and (c) the final cover layer meets the appropriate specifications of the Engineering Report noted in Special Condition #1;

xiii. during fill delivery and earthwork, submit bi-weekly reports to the Department summarizing all Site activities set forth by this permit. Each report shall provide details of all rejected fill material, quantify the amount of material imported onto the Site using truck volumes, and the results of all on-site gas monitoring for that period;

xiv. review the final post-construction report and provide comments to the Department on whether the fill operation was performed in accordance with the permit documents and including any deviations thereof. These comments must be submitted by the IEM to the Department within sixty (60) calendar days of the receipt of the final post construction report, certify that the fill operation was performed in accordance with the permit documents. The certified post-construction report must be submitted by the IEM to the Department within sixty (60) calendar days after the completion of the earthwork portion of the Project;

xv. report all operational upsets, emergencies, unusual circumstances (including, but not limited to, unauthorized entries, security breaches, equipment breakdowns, fires, thefts, acts of vandalism, and on-site accidents) to the Regional Solid Waste Engineer by telephone (at 718/482-4996) within 24 hours of the occurrence, and in writing within 3 business days advising the engineer of the nature of the event, and providing a description of how the event was handled.

Gas Venting Trench

25. During the duration of this permit, the Permittee shall inspect the gas venting trench monthly to verify the integrity of the venting trench and its mulch cover. The Permittee shall maintain the gas venting trench at all times, and promptly repair any soil washouts of the mulch cover, as necessary. If any portion of the venting trench or mulch cover is found in need of repair, this fact must be reported to the IEM immediately and all necessary repairs must be made within two weeks of discovery.

(SC 25 continued) In addition, the mulch cover shall be replaced, at a minimum, every spring to maintain the effectiveness of the gas venting trench. The Permittee shall maintain the gas venting trench after the completion of construction of the golf course in the manner described in the Supplemental Engineering Report, Volume 3, Appendix F.

26. Monthly monitoring of the gas venting trench shall continue for the duration of the permit.

27. **As required by the Custodial Care Plan**: Gas venting trench inspection reports shall include the inspection date, the name of inspector, and a description of repairs, monitoring results and maintenance performed. A log of these self-inspections must be maintained including the dates, times and results of the inspections.

Piezometers

28. The Permittee shall conduct monthly monitoring of the depth of ground water in each piezometer installed at the gas venting trench, until the completion of the construction of the golf course. All readings shall be submitted to the Department in a monthly report.

a) **As required by the Custodial Care Plan**: Post-construction piezometers monitoring shall be performed in accordance with the Supplemental Engineering Report dated October 15, 2013, Volume 3, Appendix F, Section 6.

29. Within sixty (60) days of receipt of this permit, the Permittee shall submit a Response Action Plan to the Department. This Plan shall set forth the measures to be implemented by the Permittee, if the piezometer readings indicate that the groundwater table has dropped below the depth of the gas venting trench during the post construction monitoring period.

30. The Permittee shall sample the perimeter gas monitoring wells #0, #1A, #1 to #3, #5 to #12, and #14 to #18, and the on-site monitoring wells #13 and #19 on a bi-weekly basis to detect any explosive gas migration. Copies of the bi-weekly monitoring field notes shall be electronically mailed to the Department within 24 hours after the sampling event and a copy of this report shall be submitted to the Department within 3 business days and reported to the IEM immediately and all necessary repairs must be made within two weeks of discovery.

31. All perimeter gas monitoring wells should be tested at least on a bi-weekly basis. However, if any individual monitoring point has a bi-weekly reading that equals or exceeds 100% LEL or three consecutive bi-weekly reading are greater than 25% LEL, a modified methane gas action plan shall be implemented by the Permittee. Such plan shall require, at minimum, weekly testing of the individual monitoring point(s) with the elevated readings. The Department also may require any additional measures it deems necessary. Any individual point under the modified methane gas action plan may return to the regular bi-weekly monitoring schedule, when three (3) consecutive weekly readings are all less than the 25% LEL action level.

SPECIAL CONDITIONS

ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

Deed Restriction

32. Within thirty (30) days of the date of the issuance of this permit, the Permittee shall submit a draft Deed Restriction to the Regional Permit Administrator. The deed restriction, which shall run with the land in perpetuity, shall recite and require compliance with this permit's provisions as regards to the custodial care requirements described in the Supplemental Engineering Report dated October 15, 2013, Volume 3, Appendix I. The deed restriction must be filed within six (6) months of the issuance date of this permit.

Off-site Gas Monitoring Network

33. The Permittee shall conduct bi-weekly monitoring of the Off-site Gas Monitoring Network. A copy of the bi-weekly monitoring field notes shall be electronically mailed to the Department within 24 hours, and a copy of the monitoring report shall be submitted to the Department within 3 days of the completion of each round of monitoring.

a) **As required by the Custodial Care Plan**. Each bi-weekly monitoring report shall include the geoprobe monitoring point(s) installed on or near Buttrick, Schley, Balcom, Miles and Emerson Avenues, as described in the methane monitoring reports referenced in Special Condition #1 of this permit.

34. The Permittee shall maintain, and upgrade if required, the Off-site Gas Monitoring Network during facility construction and after completion of the golf course.

a) The Permittees may request Departmental approval to substitute for all, or part of, the Off-site Gas Monitoring Network by installing geoprobe soil gas monitoring points of a placement and design suitable to the Department. Such points must be at linear intervals no greater than 50 feet (on 50-foot centers) along either segments of the perimeter boundary of the gas venting trench or the drainage ditch.

b) If any point used for off-site gas monitoring is found to require repairs, this fact must be reported to the IEM immediately and all necessary repairs must be made within two weeks of discovery. A copy of the off-site gas monitoring well results also must be sent to the New York City Housing Authority.

c) All off-site gas monitoring points shall be tested on a bi-weekly basis. If any individual monitoring point has a bi-weekly reading that equals or exceeds 100% LEL, or three consecutive bi-weekly readings that are greater than 25% LEL, sampling of that point shall be done weekly. Any individual point under the later modified methane gas action plan may return to the regular bi-weekly monitoring schedule, if there are three (3) consecutive weekly readings all less than the 25% LEL action level.

d) None of the requirements specified in Special Conditions Nos. 26 through 34, 36 (a) through (c) may be terminated without written approval from the Department.

SPECIAL CONDITIONS

ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

Ferry Point Park East Post Construction Custodial Care Plan (Custodial Care Plan)

35. Upon Department approval of the Permittee's written post construction certification report, Permittee shall implement the Custodial Care Plan described in Supplemental Engineering Report dated October 15, 2013, Volume 3, Appendix I, as referenced in Special Condition No. 1.

Project Abandonment and Environmentally Sound Closure

36. Should the Project be abandoned, the entire 222 acre Site must be closed, monitored and maintained after closure in accordance with 6 NYCRR Sect. 360-2.15 as a landfill in operation since 2000.

a) Within one hundred and twenty (120) days after notice from the Department that the Site has been deemed abandoned, the Permittee shall implement the custodial care plan contained in the Supplemental Engineering Report dated October 15, 2013, Volume 3, Appendix I, as referenced in Special Condition No. 1.
b) For the purpose of this permit, abandonment shall mean any of the following:
   i. Filling operations authorized under this permit cease for a period of 12 consecutive months, as provided in 6NYCRR sect 360-1.11(f);
   ii. Failure to complete the Project within 12 months of the issuance of this permit, as determined by the Department, by the expiration date of this permit; or
   iii. Termination of this Project as a result of enforcement action by the Department or another government agency for non compliance with this permit, or with applicable Federal, State or Local Law.
c) The terms of this Special Provision shall govern, if in conflict with the terms of General Condition No. 12.

Waterfront Park

37. Within one hundred and eighty (180) days of the effective date of this permit, provide three hard copies and one copy on CD of revised design plans for the Waterfront Park, to the Regional Permit Administrator. Include in this submission details on the extent of adjacent area and tidal wetlands encroachment, water balance, proposed mitigation (including mitigation for the pool barge), implementation plans and staging.

SPECIAL CONDITIONS

ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

Submittals

38. Within sixty (60) days of completion of the filling operation on the Site and construction of the earthwork portion of the Project, the Permittees shall provide:

a) as-built drawings of the Project, signed by a professional engineer licensed in New York State for DEC's approval. The post construction as built drawings shall, at a minimum, include detailed cross-sections illustrating the depth of fill placed and location of all utilities and associated structures, road ways, demarcation layer and storm water drainage control structures for the Project. The as-built plans also shall include the location of all monitoring and control systems and devices (including gas control and monitoring, water quality and elevation monitoring and settlement monitoring).

b) a written post-construction certification report for review and approval by the Department and certification by the Independent Environmental Monitor. This report shall include approved "as-built" drawings demonstrating that the earthwork and filling operation was accomplished in accordance with the Department approved plans and this permit. If as-built drawings are not approved by DEC within 120 days of the completion of the filling operation, the Site is deemed abandoned, as per Special Condition No. 36. This report and the as-built drawings cannot be done or submitted by the IEM.

39. Within ninety (90) days of approval of the post construction certification report, the Permittee shall submit an amended subsurface operations plan which includes relevant post construction storm water pollution prevention maintenance documentation as per the State Pollution Discharge Elimination System (SPDES) general permit for storm water discharges from construction activity.

40. Within sixty (60) days of the effective date of the permit, the Permittee shall submit a full size (24 inches by 36 inches) scaled, signed and sealed drawing showing construction of the irrigation lake passive venting system.

41. Thirty (30) days after approval of the construction certification report, the Permittee must provide to the Regional Solid Waste Engineer, a revised Table 6-1 (noted in the engineering report referenced in Special Condition #1 above).

42. Prior to the installation of any sub slab depressurization systems for onsite buildings, the Permittee must secure written approval of these systems from the NYS Department of Environmental Conservation and the NYS Department of Health.

43. All reports and written submissions shall be sent in duplicate to the regional office of the DEC, with an additional copy to DEC Central Office, and another copy to the document repository as noted below. Each submission shall have a transmittal page, which references the DEC permit number and the relevant Special Condition number.

SPECIAL CONDITIONS

ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

Samsudeen Arakhan
Regional Materials Management Engineer
NYS DEC, Region 2
47-40 21st Street
Long Island City, NY 11101

John Cryan
Regional Permit Administrator
NYSDEC, Region 2
47-40 21st Street
Long Island City, N.Y. 11101

David Vitale, Bureau Chief
Bureau of Solid Waste, Reduction, and Recycling
NYS DEC
625 Broadway
Albany, NY 12233-7253

FPP Golf Course Document Repository
New York City Department of Parks and Recreation
1 Bronx River Parkway
Bronx, NY 10462-2869

44. All notifications to the Department, as referenced in Special Conditions of this permit, shall be made to the Regional Materials Management Engineer, NYS DEC, 47-40 21st Street, Long Island City, NY 11101. All immediate, 24-hour, verbal or expedited notifications shall be made by telephone and electronic mail to the attention of Samsudeen Arakhan, Regional Solid Materials Engineer at: 718-482-4996 (phone) / skarakha@gw.dec.state.ny.us (email), or other numbers subsequently provided by the Department.

45. Copies of reports generated or reviewed by the Independent Environmental Monitor shall be maintained at the document repository referenced in Special Condition No. 43 above.

End of Special Conditions

E-3

Bally's Bronx
Post Construction Custodial Care Plan (PCCCP)
Prepared by: New York City Department of Parks and Recreation

LANGAN

FERRY POINT PARK EAST
POST CONSTRUCTION
CUSTODIAL CARE PLAN

October 2013

Prepared by:
New York City Department of Parks and Recreation

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1 Introduction and Purpose

The Ferry Point Park East Post Construction Custodial Care Plan (FPCCCP) has been prepared to comply with the requirements of the New York State Department of Conservation (DEC) 6NYCRR Part 360 Permit No 2-6006-00014/00013-0 (see attached) (hereafter referred to as the "2013 Permit") and applicable regulations and conditions as previously discussed and agreed upon between DEC and the New York City Department of Parks and Recreation (DPR). See the attached Figure 1-1 of Ferry Point Park. The purpose of this document is to define the post construction criteria applicable to the operation, monitoring and maintenance of the environmental protection systems installed as part of site wide development of Ferry Point Park East. DPR agrees to a 5-year rolling schedule whereby, at the end of a five year term, DPR may demonstrate that the routine operation and maintenance for the end use of the site, i.e., the golf course, meets the performance criteria established in the 2013 Permit, and petition to modify or terminate the FPCCCP. The general procedures for the termination of monitoring activities or abandonment of infrastructure are detailed further in the FPCCCP.

As built drawings and a written post-construction certification report for NYSDEC review and approval and certification by the IEM will be prepared within 60 days of completion of the filling operation on the Site and construction of the Earthwork portion of the Project. Therefore the as-built drawings and post construction certification report have not been provided in this FPCCCP.

As construction activities are on-going, relevant changes and additions associated with final construction will be incorporated into an amended Sub-Surface Operations Plan. As part of this addendum, DPR will also submit the relevant post construction Storm Water Pollution Prevention maintenance documentation as per the SPDES (State Pollution Discharge Elimination System) General Permit for Stormwater Discharges from Construction Activity. These amendments to the FPCCCP will be submitted to DEC within 90 days of the approval of the post construction certification report by DEC.

Post construction monitoring and maintenance of the Golf Course, Community Park and Waterfront Park will be the responsibility of DPR. At this time DPR has entered into a contract with a golf course concessionaire, Trump Ferry Point LLC, to implement post-construction care necessary to maintain the golf course for operational purposes. Golf course maintenance and operations exclude those requirements specific to post construction monitoring and maintenance of existing

environmental conditions and infrastructure as installed by DPR and specifically defined in this plan as being Landfill Gas systems, Groundwater monitoring and Long Term Settlement Plates. DPR's Maintenance & Operations division or an appointed representative will also implement the operational and maintenance post construction requirements associated with the Community and Waterfront Parks.

1.1 Document Organization

This FPCCCP provides descriptions – either within the document or by reference – of systems, facility management, maintenance operations, environmental monitoring and the construction schedule.

This FPCCCP is organized into three sections summarized below:

The first section provides the document overview, organization, scope and applicable permitting basis.

The second section provides the post closure operational details for the relevant site-wide compliance systems and components. This includes site background, information regarding the specific systems and components related to the specific closure parameters and relevant regulatory processes necessary to facilitate the FPCCCP.

The third section addresses various closure and post closure issues including end use, construction schedules, and the post construction custodial care plan.

1.2 Scope of Document

As part of the overall permit submittal, the FPCCCP provides an overview of the systems within Ferry Point Park East as they will exist following the conclusion of construction at the site. In order to avoid duplication, design drawings and details, discussed within the FPCCCP that are referenced and included within the overall permit submittal are noted as such within the document. These drawings, bound separately under the permit application and referenced herein, have been compiled from various source documents.

The respective drawings serve as a basis for management of the site during the post-construction period. However, as per the 2013 Permit, these drawings do not represent actual as-built conditions. In addition, the terms used within the FPCCCP are consistent with the list of preferred terms contained in the overall permit application.

Path: M:\New_York_City\FerryPoint\Maps\MXD\1-1 Project Area Map.mxd

N

SCALE

0 750 1,500 Feet

Legend

Project Site Boundary

Figure 1-1

Ferry Point Park

Project Area Map

Bronx, New York

SOURCE: ESRI 2012; Ecology and Environment, Inc. 2013; Ferry Point 2013.

1.3 Compliance Basis

As described in Section 2, Ferry Point Park East has an anticipated short operating life, as it has been designed and operated not for the purpose of disposal, but as a golf course and public park. Therefore, the scope of the FPCCCP is not congruous with facilities that have been operating as solid waste facilities.

The FPCCCP is prepared in accordance with the applicable regulatory requirements as they specifically relate to the Permit. The FPCCCP has been developed in conformance with applicable regulatory requirements of Article 27, Title 7, 6NYCRR Part 360 pertaining to construction and demolition material transfer operations as they relate to the infrastructure developed at Ferry Point Park East.

During 2010, fill material from one particular source was brought on-site and placed in seven different stockpiles. The material was believed to be in conformance with permit conditions. However, the material was found to be in violation of 2005 Permit Special Conditions 1, 9, and 16, during NYSDEC and IEM inspections. On January 10, 2011, DPR signed an Administrative Order on Consent (Consent Order), Case No. R2-20100521-172, related to this fill material.

Specific requirements within the Consent Order as they pertain to post construction operations are as follows:

Consent Order No R2-20100521-172 (Appendix I.1)
" *Attachment "A" Proposed Handling of Ferry Point Park Soil Stockpile, Item 6, Once the asphalt top course is installed, the asphalt surfaces of the clubhouse and maintenance facility parking lots will be inspected during April and October every year by a licensed professional engineer ("engineer") who is registered to practice in New York State. Within thirty days (30) days of such inspections, the engineer will submit to the Department a stamped and certified written detail report, including photo documentation, regarding the condition of the asphalt surfaces and their adequacy, including photo documentation, regarding the condition of the asphalt surfaces and their adequacy to effectively function as covers. A description of any needed repairs will be included in the engineer's report.*

Item 7, Any repairs deemed necessary by the engineer must be completed by New York City Department of Parks and Recreation ("NYC Parks") within fifteen (15) days of the notification by the Department to NYCDPR to begin such repairs. A certification, including supporting written and photo documentation must be submitted by NYC Parks within fifteen (15) days after completion of repairs."

2 Overview of Site Wide Systems and Components

Ferry Point Park East is bound by the Bronx-Whitestone Bridge to the west, Balcom, Miles, and Emerson Avenues to the east, Schley Avenue and St. Raymond's Cemetery to the north, and the East River to the south.

The Site, which comprises the eastern portion of Ferry Point Park, historically was largely unused and undeveloped. The project site is a former landfill that accepted municipal solid waste from before 1951 to the 1960's, and was closed and covered in the mid-1960's, with additional closure operations conducted in the late 1980's. The project site contained an organic recycling and composting facility (operated by DPR) that was located in the northwestern portion of the project site, informal dirt bike paths, an informal model airplane area in the western portion of the project site, and a ballfield and basketball court located on the northeastern portion of the project site.

The proposed Project includes three major elements (Waterfront Park, Community Park, and comprehensive golf facility) that together constitute a new regional park. The site map is attached as Figure 2-1 of the October 2013 Supplemental Engineering Report (pg 2-5).

Numerous systems have been constructed and installed at Ferry Point Park East that will continue to serve operational and environmental functions during the site closure and post closure period. Each of these systems has specific components, activities and controls. The purpose of this section is to describe the primary function intended to be served by each system and the components that comprise the system as they relate to closure and post closure activities.

Each of the relevant systems listed below have a specific compliance aspect which includes the following:

- **Final Cover and Drainage System (as applicable)**
- **Landfill Gas Control System**
- **Long Term Settlement Monitoring System**
- **Groundwater Characterization System**

2.1 Final Cover System

The overall function of the final cover system is to provide a clean barrier of one foot of uncontaminated soil (cover material) over a minimum of one foot of shaping material in designated passive recreation areas and a minimum of two feet of cover material over shaping material in designated active recreation areas. In areas where an impermeable cover system (e.g. asphalt) is in place no cover material or demarcation layer is present. The final cover system is dependent on the park design typology and use defined further below. Final cover design and construction for Ferry Point Park East are composed of the following common components in accordance with the 2013 Permit.

1. The Topmost Layer consists primarily of vegetated cover material throughout the park may also consist of impermeable asphalt or gravel materials, concrete or paver systems. Within the context of this FPCCCP, the topmost cover system is defined as that system which is used to stabilize the Barrier Protection Material (BPM).

2. The BPM layer or cover material consists of clean soil meeting permit requirements for cover material at a depth of one foot for passive recreation areas and two feet for active recreation areas.

3. The Surface Water Drainage System, where applicable, is constructed to protect the final cover system from the peak discharge based on a rainfall intensity of a 24-hour, 25 year storm event.

4. The Demarcation Layer, where applicable, is placed to provide a physical visual separation between the BPM which is underlain by select exempt Construction and Demolition (C&D) fill material and existing landfill and cover material. This item provides a visual warning against unintended penetration into the underlying C&D material layer. The Demarcation layer will be Guardian Safety Fence, as manufactured by Tenax ® Corporation, Baltimore, Maryland, or the 3T Product T820A as manufactured by 3T Products, LLC, Dalmatia, Pennsylvania, or approved equal.

Infiltration into the BPM is minimized by means of final grading. Infiltration that does enter the BPM is either released back into the air through evapo-transpiration or collected and diverted through the drainage layer (if used) and discharged to a system of catch basins or detention ponds located throughout the site.

As defined in the 2013 Permit documentation, minimum and maximum slopes combined with drainage elements are used to prevent ponding and ensure slope stability.

The BPM is placed in a manner that produces a well graded mass. The material is and will be constructed in a horizontal layer of twelve (12”) inches or (24”) in depth extending across the entire area of fill. The material is and will be placed

and distributed so that there will be no pockets of uniform size solid material. Hollows and depressions which develop during the process of rolling and compacting are filled with acceptable material and the subgrade is compacted again. This process of filling and compacting is repeated until no depressions develop. After compacting, the area must be in a uniformly compacted, smooth, dense, true, firm, satisfactory, and evenly finished condition, free of compaction planes, irregularities, voids, ridges, or loose material.

2.1.1 Final Cover Systems by Park Typology

2.1.1.1 Community Park

The Community Park is classified as an active recreational facility and therefore requires a minimum of twenty four (24) inches of BPM per the New York State Department of Health (NYSDOH) determination regarding Ferry Point Park on August 2, 2006 and a further determination by NYSDEC staff on July 28, 2009.

Excerpt from NYSDOH August 2, 2006 determination:
"Additionally, areas that are considered "Active Recreation" pursuant to New York State Brownfield Cleanup Program Technical Support Document, Section 3.0, will contain a minimum of twenty four-(24) inches of cover material that meets or exceeds NYSDEC TAGM 4046 guidelines for soil. In addition to cover material, a demarcation barrier will be used to divide the final cover fill from the existing landfill capping material."

Excerpt from July 28, 2009 NYSDEC Correspondence:
"…All other areas, that are not covered with a building or other acceptable impermeable cover system, including the …"Community Park" area are deemed active recreational areas that must be covered with at least two feet of soil over a demarcation layer."

Community Park Final Cover System

1. Topmost Layer: Vegetated cover material or impermeable cover system.
2. BPM layer or cover material: 24" of topsoil meeting permit requirements for cover material at a depth of two feet in areas not covered with a building or impermeable material.
3. Demarcation Layer: The Demarcation layer utilized is a Guardian Safety Fence, as manufactured by Tenax ® Corporation, Baltimore, Maryland, or the 3T Product T820A as manufactured by 3T Products, LLC, Dalmatia, Pennsylvania, or approved equal.

2.1.1.2 Waterfront Park

1. Topmost Layer: Vegetated cover material or impermeable cover system. This topmost cover system throughout the park is primarily vegetative but may also consist of asphalt or gravel materials, concrete or paver systems.
2. BPM layer or cover material: consists of clean soil meeting permit requirements for cover material at a depth of one foot for passive areas and two feet for active areas.
3. Demarcation Layer: where applicable as determined by NYSDOH, the Demarcation layer will be Guardian Safety Fence, as manufactured by Tenax ® Corporation, Baltimore, Maryland, or the 3T Product T820A as manufactured by 3T Products, LLC, Dalmatia, Pennsylvania, or approved equal.

2.1.1.3 Golf Course

The Golf Course is classified as a passive recreational facility and therefore requires a minimum of twelve (12) inches of BPM per the New York State Department of Health (NYSDOH) determination regarding Ferry Point Park on August 2, 2006 and a further clarification by NYSDEC staff on July 28, 2009.

Excerpt from NYSDEC July 28, 2009 correspondence:
"For the purpose of the permit, only the golf course is deemed a "passive recreational area" and is required to have a one foot thick cover layer over a demarcation layer."

NYSDEC directed that the placement of the demarcation layer, per a March 9, 2011 correspondence, is required for the golf course in areas containing less than 5 feet of combined cover and shaping material thickness.

Excerpt from a NYSDEC March 9, 2011 correspondence specific to the installation of a demarcation layer on the Golf Course:
"The Department and NYSDOH informed NYCDPR that a demarcation barrier would not be required at areas of the golf course having five feet or more of shaping and cover layer."

Areas exempted from demarcation, structures, paved areas, and lakes are lined with an impermeable barrier. The preliminary Demarcation Layer Plan is shown on Figure 3 located in Section C.4 of the October 2013 Supplemental Engineering Report Drawing number S-H22.

The surface water drainage components are integrated into the final cover and function to control stormwater flow into the shaping layer material. Maintenance and inspection procedures for the surface water drainage system are provided in Section 3.3.2.2 Final Cover System Inspections and Maintenance. Additional maintenance and inspection criteria regarding these systems will be amended to the FPCCCP pursuant to the relevant post construction Storm Water Pollution

Prevention maintenance documentation as per the SPDES General Permit for Stormwater Discharges from Construction Activity.

The surface water drainage system includes a "tile drainage system" installed underneath the fairways, tees, greens and inner roughs that connects to the overall drainage system. The capacity of the drainage pipes was reviewed to make sure there is sufficient capacity for additional flow.

The surface water drainage system consists of the following that connect to catch-basins and manholes adjacent to the tile drainage system:

"Golf course surface drainage pipe will be A.D.S. N12-or Approved Equivalent. Typically the golf course Grading Plans show the locations of the catch basins throughout the golf course. In these locations, there should be a 12 to 18-inch A.D.S. N12-or Approved Equivalent perforated riser, extending above grade 2 to 3-feet. Washed pea-gravel 1/4 to 3/8-inch in size, is mounded up around the base of the pipe, so that it functions throughout the construction process. Upon establishment of finish grade, the pipe is cut off flush with the grade. Soil is then removed 12-inches around and 12-inches deep and backfilled with clean, washed 1/4 to 3/8-inch pea-gravel. A cast iron or approved plastic grate is then inserted into the pipe and attached according to the manufacturer's specifications.

All golf course drainage pipe will have a 1.628 millimeter-14 gauge direct bury copper locator wire placed on top of the pipe prior to backfilling the pipe. This includes all sizes of perforated and solid pipe."

1. Topmost Layer: Vegetated cover material or impermeable cover system. This topmost cover system throughout the park is primarily vegetative but may also consist of asphalt or gravel materials, concrete or paver systems.
2. BPM layer or cover material: consists of one foot of permit requirements for cover material at a depth of one foot for passive areas and two feet for active areas.
3. Surface Water Drainage System: where applicable, constructed to protect the final cover system from the peak discharge based on a rainfall intensity of a 24-hour, 25 year storm event.
4. Demarcation Layer: where applicable, the demarcation layer is placed to provide a physical visual separation between the BPM which is underlain by select exempt Construction and Demolition (C&D) fill material and existing landfill and cover material. This item provides a visual warning against unintended penetration into the underlying C&D material layer. The Demarcation layer will be Guardian Safety Fence, as manufactured by Tenax ® Corporation, Baltimore, Maryland, or the 3T Product T820A as manufactured by 3T Products, LLC, Dalmatia, Pennsylvania, or approved equal.

2.2 Landfill Gas Control

The generation of landfill gas (LFG) is a natural process resulting from the decomposition of organic material in municipal solid waste. LFG is comprised mainly of methane and carbon dioxide, along with traces of other gases.

LFG at the Ferry Point Park East site is present within the waste layer of the landfill. The waste at the Site consists of widely varying amounts of MSW and construction debris intermixed with soil. LFG is currently being generated at a very low rate, approximately 1 cfm/acre or less which correlated well with the modeling conducted in 1999 by DPR's consultant TRC Engineers (AP-42 modeling). Very little to no LFG was measured at the landfill surface during the flux box testing (Ferry Point Landfill Gas Report EEEPC 2011, Appendix F.1 Supplemental Engineering Report).

LFG that is generated accumulates in more pervious portions of the waste layer and/or migrates laterally to the east and northeast and is vented out the perimeter vent trenches. As shown on the graphs depicted on design drawings (S-H6.01 and S-H6.02 contained Ferry Point Landfill Gas Report EEEPC 2011, Appendix F.1 Supplemental Engineering Report).

The remaining Landfill gas at Ferry Point Park East is managed to control emissions of LFG and to prevent off site migration through a passive vent trench. Post construction care operations and maintenance of the landfill gas emissions management systems are detailed in Section 3.3 of the Post Construction Custodial Care Plan.

2.2.1 Passive Venting System

Passive venting systems have been and are being installed to vent LFG. The following are the design components of the passive control of LFG at the Ferry Point Park East site as further detailed in Appendix F.1 LFG Management Plan:

- Wet and dry utility pipe bedding corridors: contain low permeability soil plugs and gas vents at periodic intervals and terminations into structures. These include as applicable and approved by NYSDEC:
  1. Passive surface vents located adjacent to the plugs on the up gradient side to allow venting of built up gas;
  2. Plugs and passive vents prior to every potentially occupied structure at a suitable interval;
  3. Air vents on vault and manhole covers; and
  4. Explosion proof conduit seals and electrical connection.
- Vertical passive gas vent wells are located within the rough and other non-playing areas of the golf course. The vent locations were based on the following criteria:

1. Areas of significant waste thickness;
2. Areas of significant cover soil thickness;
3. Areas of historic high LFG concentrations; and areas in apparent lateral migration pathways.
4. A passive vent trench is located at the eastern perimeter of the Community Park. Vertical passive gas vents are additionally located within the passive LFG vent trench that has been installed at Community Park.

2.2.2 Landfill Gas Migration System

Ferry Point Park East utilizes a passive perimeter LFG interceptor venting system or LFG vent trench as an engineered control against the migration of LFG off site. The vent trench is installed along the edge of the East River near the foot of Emerson Avenue, along the length of the Balcolm Avenue Site boundary, along Schley Avenue, and continues approximately 1,050 feet west past the intersection of Schley and Buttrick Avenues as shown in Figure 5 (located in Appendix F.1 of the October 2013 Supplemental Engineering Report).

A review of the historic field data associated with the perimeter LFG vent trench monitoring program from 2001 to present was conducted to evaluate LFG trends at the Site relative to the perimeter passive LFG control.

The following key findings were noted:

1. After the installation of the vent trench in 2001, methane levels in the vicinity of the LFG vent trench tended to decrease significantly within a year in most monitoring wells;
2. Methane levels remained relatively low and below regulatory limits for the next three years (2002 thru 2004), except for a few wells that sporadically exceeded the regulatory limit;
3. In 2005, the measured methane levels tended to increase, likely due to the installation of more reliable monitoring points (new monitoring points and repaired wells); and,
4. Results from 2008-2011 generally indicate relatively consistent levels of methane, with certain limited sporadic increases above regulatory limits.

The vent trench is extended below the seasonal low groundwater table to form a barrier to off-site migration of LFG generated within the site and to allow the LFG to vent passively. Where underground utilities may act as conduits for the LFG migration, utility seals and low permeability soil collars are used to cut off the LFG from migrating along the utility corridors.

To remain consistent with the design intent of the LFG vent trench, monitoring of the groundwater is done by utilizing installed piezometers in accordance with the 2013 Permit.

To evaluate the effectiveness of the engineered controls monitoring at the vent trench has been ongoing since it became operational in 2002 at a frequency of bi-weekly monitoring with a contingency of weekly monitoring if the lower explosive limit is greater than 25%.

To meet the requirements of the 2013 Permit, a monitoring program and contingency procedures have been developed and are referenced (to the Landfill Gas Management Plan Appendix F.1 of the October 2013 Supplemental Engineering Report) in Section 3.3 of this report.

2.2.3 Interior Active Collection Systems

The intent of the interior active collection systems is to control LFG emissions such that safe levels are maintained in all potential occupied interior spaces. This is achieved by including active removal systems beneath all enclosed buildings within the site.

The interior active collection system is comprised of a sub slab depressurization system (SSD) designed to protect LFG from migrating into confined spaces and monitor those spaces. The interior LFG venting system is designed to prevent the accumulation of gas at greater than 25% of the lower explosive limit in structures on site. The system is designed to achieve lower sub slab air pressure relative to indoor air pressure by use of a fan powered vent drawing air from beneath the slab. The system prevents the migration of LFG into the interior of on-site buildings. Further, the system is designed to achieve depressurization during winter conditions when ventilation is limited.

To meet the requirements of the 2013 Permit, a monitoring program and contingency procedures have been developed and are referenced (to the Landfill Gas Management Plan Appendix F.1 of the October 2013 Supplemental Engineering Report) in Section 6.3.4.1 of the LFG Management Plan.

2.3 Long Term Settlement

In accordance with Special Condition #9 of the 2005 Permit, a settlement monitoring program was developed and a report issued. The report made recommendations with respect to the impact of potential long-term settlements of C&D fill and cover material on the construction and operation of the Ferry Point Golf Course (Settlement Evaluation and Long-Term Monitoring Plan Ferry Point Golf Course January 2005 Appendix I.2).

Settlement monitoring began on site in December 2002 and consisted of the construction of 7 instrumented test fills and installation of 6 settlement plates

throughout the site. The test fills ranged in height between 10ft and 18ft and were located in areas where significant thicknesses of fill were required, in areas where thick compressible layers existed and in future green areas. Additional, short and long term settlement monitoring has been on-going on the site since the original monitoring program began.

Further evaluation was completed in the Settlement Evaluation and Long-Term Monitoring Plan regarding Slope Stability; this evaluation indicated that the factors of safety exceeded the minimum acceptable factor of safety for a circular global slope failure, and thus that the steepest slopes of the proposed grades for the project are stable and will not require any reinforcement for construction or maintenance purposes.

As part of the report, a Long Term Settlement Monitoring plan was developed to be implemented after the final grading of the golf course and during the golf course operation. The Settlement Plate Location Plan (Figure 2) is located in Section H.1 of the October 2013 Supplemental Engineering Report.

The plan consists of the construction of nine (9) settlement monitoring plates to be placed throughout the golf course. As per the Long Term Settlement Monitoring plan, final locations of the monitoring plates were coordinated with the golf course architect and approved by NYSDEC staff. The locations were chosen to be adjacent to the water and sewer mains and/or adjacent to green areas, where differential settlements are potentially critical. The settlement points are located in variable subsurface conditions, but generally in the highest fill areas and thickest compressible layers.

The settlement plates will be placed as close to the defined area as possible without interrupting play or compromising the viability of the plate. The settlement monitoring points will be installed to within 1 foot of the final grade. The work consists of installing settlement plates consisting of a base plate, steel riser pipe sections, and any additional hardware and couplers which may be required that is consistent with the 2005 Settlement and Long Term Monitoring Plan.

The work consists of installing settlement plates consisting of a base plate, steel riser pipe sections, and any additional hardware and couplers which may be required that is consistent with the 2005 Settlement and Long Term Monitoring Plan.

1. Initial Installation: The base plate will be installed at least 12 inches (150 mm) below natural ground, firmly seated on a level surface.
2. Adding Extensions: Riser pipe extensions and couplers will be added, as necessary, in 5 foot increments as construction of the embankment progresses. The Contractor will install extensions in a plumb line.

The monitoring requirements associated with the long term settlement plates are discussed in Section 3.3.

2.4 Groundwater Monitoring

Characterization of the on-site groundwater was not initially contemplated as part of the 2005 permit by DEC. As per a 2011 DEC directive, DPR installed 11 groundwater monitoring wells on site in February of 2012, reference Figure 4 located in Appendix G.2 of the October 2013 Supplemental Engineering Report.

The purpose of the well installation was to obtain baseline chemical data on groundwater constituents at the Ferry Point site. Basic site hydrogeological information was also characterized during this effort, including direction of flow, groundwater elevation gradients, and flow velocity.

At the time of installation, construction activities were 80% complete. The baseline characterization is expected to capture conditions representing 80% of the potential measurable impacts to groundwater. Future monitoring is expected to capture less than 20% of the potential post-construction impacts.

Groundwater characterization monitoring has been performed for an initial three quarterly rounds of sampling and the data has been compared to data from landfills of similar age and type. DPR will continue to conduct annual groundwater sampling after the golf course is operational.

Trend analysis was used to develop an understanding of the effectiveness of an implemented remedy in addressing the exposures presented at the site and to begin to identify any trend(s) with regard to the achievement of remedial objectives (DER-10 6.2.2.c.6). However, the current redevelopment project is not intended as a 'remedy' for the site, and there are no remedial action objectives for groundwater at Ferry Point Park East. Therefore activities usually associated with monitoring for the effectiveness or performance of a remedy, such as trend analysis, are not appropriate for Ferry Point Park East.

Exposure to groundwater upon completion of the project will be managed by engineering controls (DER-10 6.1 Site Management).

Engineering controls to limit exposure to groundwater/leachate include:

- The placement of fill material ranging from 1 to 12 feet in depth above the original soil cover placed following termination of landfill activities in the 1960s.
- A demarcation layer to be placed in areas of the site where the combined cover and shaping material is less than 5 feet thick.

3 Post Construction Custodial Care Operations

This section addresses the compliance items as necessary to provide for the proper post construction custodial care for the site. The specific components of this section consist of a description of the sites' end use, the construction schedule, the environmental monitoring requirements, post construction custodial care operations and maintenance plan, consent order maintenance and the implementation of the site wide health and safety plan and emergency contact information.

3.1 End Use

DPR agrees that any proposed change of end use that significantly alters the intended recreational character or that impacts the integrity or operation of the environmental control and monitoring systems will require DEC approval. The End use of the site during the term of the FPCCCP will be in accordance with the 2013 Permit.

The end use for Ferry Point Park East will be a public passive and active recreational facility owned by DPR. There are three distinct areas or "Parks" within the project site.

- Community Park: Approximately 10 acres of active and passive recreation are replaces and expands an existing recreational facility. The project includes a walking path, detention area, ballfields, basketball courts, tot-lot, comfort station and seating areas.
- Golf Course: Approximately 180 acres, contains an 18-hole tournament quality golf course, driving range and practice areas for chipping and putting, a clubhouse, maintenance building, comfort station and rain shelter.
- The Waterfront Park: Approximately 19.5 acres of passive park land, the Waterfront Park design includes a small parking lot and comfort station, a beach and picnic area, salt marsh, and grassed and landscaped features with a continuous path that crosses the park.

3.2 Construction Schedule

The various components of the three distinct Parks have been and are being installed in various stages. Construction completion for each of the Parks is defined as placement of the final cover system, specifically the vegetated cover material or impermeable cover material. Final stabilization of the golf course, parks and ancillary facilities will be in accordance with the approved design specifications and the final plans of the Waterfront and Community Parks as approved by DPR.

Attached as Appendix I.3 is the construction schedule for the Golf Course project, upon completion of filling operations for the shaping layer, the Contractor will commence the rough shaping, placement of cover material and installation of drainage, irrigation and other utilities as per the construction schedule and construction sequence, for the purposes of this FPCCCP referred to as the Closure Construction Schedule.

The Community Park is substantially complete except for the proposed Comfort Station at Community Park which is contemplated for final completion in fall 2013.

The Waterfront Park, currently in design, is anticipated to begin construction in fall 2013, once a construction schedule is completed for this project it will be submitted to NYSDEC as an addendum to the FPCCCP.

Upon completion of the fill delivery and construction of the earthwork portion of the project, DPR agrees that its engineer will prepare the post construction certification report and the IEM will certify that the fill operation was performed in accordance with the 2013 Permit. Any deviations from the permit will be noted. This report will include approved "as-built" drawings demonstrating that the earthwork and filling operation were accomplished in accordance with the Department approved plans and the permit.

3.3 Post Construction Custodial Care Plan

The Post Closure Care Monitoring and Maintenance Operations Plan provides a description of overall management of the Site during the post construction period and sets the performance standards and requirements under which the actual monitoring, maintenance and reporting practices are to be carried out. Contingency procedures are discussed within the specific document as applicable.

This Plan consists of these components:

1. Environmental Monitoring Requirements
2. Health and Safety Plan Emergency Contact
3. Post Construction Custodial Care Inspections and Maintenance

Unless otherwise noted, compliance actions governed by the FCCCP will commence within 60 days of the NYSDEC's approval of the construction certification report. The compliance documentation, in the form of either or both:

1. Monitoring Data and Summary Report
2. Inspection Report

Compliance reports will be submitted within 30 days of the initial monitoring or inspection. Concurrent reports will be submitted within 30 days of the submittal of the initial report unless otherwise noted.

3.3.1 Environmental Monitoring Requirements

Environmental monitoring, maintenance and reporting will be performed at Ferry Point Park East during the post-construction period. The plans are specific to groundwater characterization, landfill gas monitoring and long term settlement monitoring. Record keeping and reporting requirements and contingency action levels and procedures are also addressed.

Maintenance of the systems associated with Ferry Point Park East monitoring will be performed:

1. Based on the result of inspections performed during monitoring events; or
2. If an issue is identified during general site wide operations; or
3. Specifically determined by contingencies for applicable systems.

Maintenance, monitoring, and reporting for activities associated with the LFG systems, long term settlement plates, final cover system and groundwater monitoring infrastructure will be performed by a DPR approved representative.

As necessary, changes may be made to the FPCCCP to reflect monitoring results and address relevant site conditions. Modifications to the environmental monitoring program will be implemented in compliance with the FPCCCP or by written request to the NYSDEC. Revisions to the FPCCCP monitoring program may be made through issuance of addenda, submittal of a partially or fully revised document, submittal of revised supporting documentation or other approved vehicle to NYSDEC.

3.3.1.1 Groundwater Characterization Monitoring

Groundwater monitoring will be performed at the eleven well locations located within the golf course. Upon commencement of operation of the golf course, groundwater sampling will take place annually with samples being analyzed for constituents listed in 6 NYCRR Subpart Part 360-2.11 routine parameters. The groundwater monitoring report and summary will be submitted to NYSDEC as a part of the annual monitoring and inspection report. Monitoring and inspection

will commence concurrently within 60 days of the approval of the construction certification report for a period of three years.

Upon completion of 3 years of post-operation annual routine groundwater sampling DPR may submit documentation to NYSDEC in furtherance of a request to reduce or cease groundwater sampling at the FPP golf course. DPR agrees to perform operational groundwater sampling, data analysis and reporting for a minimum of three years after construction, with the goal of demonstrating whether operation of the Park adversely impacts on water quality with respect to leachate quality or quantity, and whether operation of the park meets the performance criteria established in the 2013 Permit. .

When the request for cessation is accepted, the groundwater monitoring wells will be evaluated for either abandonment or removal within the first year of the cessation of monitoring. The abandonment or removal documentation, signed and certified by a licensed NYS Engineer will be provided to DEC within the concurrent post closure reporting period after the completion of the work.

3.3.1.2 Long Term Settlement Monitoring

Long term settlement monitoring will be performed at the 9 installed settlement monitoring plates throughout the golf course for a period of thirty years after completion of construction.

The long term settlement monitoring report and summary will be submitted to NYSDEC as a part of the annual monitoring and inspection report and will be certified by a licensed NYS professional engineer. The report will include:

1. Commencing within 60 days of the approval of the construction certification report, for a period of five years, the quarterly monitoring results collated and summarized for the year.
2. Commencing at the fifth year, for a period of five years, bi-annual monitoring results collated and summarized for the year.
3. Commencing at the 10th year, for a period of twenty years, yearly monitoring results and summary.

Monitoring will commence concurrently within 60 days of the approval of the construction certification report for a period of three years. Based on the results of the initial five years of monitoring, DPR may petition for decreased monitoring or a cessation in frequencies.

When the request for cessation is accepted, the long term settlement plates will be evaluated for either abandonment or removal within the first year of the cessation of monitoring and inspection. The abandonment or removal documentation signed and certified by a licensed NYS Engineer, will be provided to DEC within the concurrent post closure reporting period after the completion of the work.

3.3.1.3 Landfill Gas Monitoring Program

The LFG monitoring program, in accordance with the 2013 Permit will support compliance with the following requirements: (1) the concentration of explosive gases will not exceed 25% of the lower explosive limit (LEL) in on-site structures; and (2) the concentration of explosive gases must not exceed the LEL at the property boundary as defined by the Landfill Gas Management Plan (LFGMP).

Operations, monitoring and maintenance (OM&M) for the Site's LFG management system will take place on an ongoing, routine schedule with additional inspections to address maintenance concerns and potential alarm call-outs, and to provide contingency monitoring and actions as needed. The OM&M plan for the Site is presented in Section 6 of the LFGMP (located in Appendix F.1 of the October 2013 Supplemental Engineering Report).

OM&M of the piezometer network is also incorporated into Section 6 of the LFGMP (see Appendix F.1). OM&M operations regarding landfill gas are to be in compliance with the LFGMP. The abandonment or removal documentation signed and certified by a licensed NYS Engineer, will be provided to DEC within the concurrent post closure reporting period after the completion of the work as documented in the OM&M plan.

The LFG monitoring report and summary will be submitted to NYSDEC as a part of the annual monitoring and inspection report unless otherwise noted within the OM&M plan. Monitoring and inspection will commence concurrently within 60 days of the approval of the construction certification report unless otherwise noted within the OM&M plan. Adjustments to monitoring frequencies will be requested of NYSDEC upon meeting the performance criteria thresholds identified in Section 6.3.4.2 of the LFG Management Plan. DPR will submit a request with supporting documentation to NYSDEC 30 days prior to the desired date of the proposed change in monitoring. DPR will not change monitoring frequencies until the request has been approved.

3.3.2 Post Construction Custodial Care Inspections and Maintenance

The site will be operated as part of the New York City Department of Parks and Recreation system. The Community Park and Waterfront Park will be operated and maintained by the DPR Borough of the Bronx Operations and Maintenance division or an appointed representative. The golf course site will be operated and maintained, unless otherwise noted within the FPCCCP by a Concessionaire, identified as Trump Ferry Point, LLC. DPR remains responsible for all inspection monitoring, reporting and oversight of operations and maintenance of the applicable site wide components as identified within the FPCCCP.

Inspection and maintenance will be conducted in coordination with monitoring events unless otherwise noted or as directed by DEC in response to a specific

monitoring condition or violation. If a contingency action or maintenance is warranted based on the inspection it will be noted in the inspection report to be provided as explained below. The inspection report will be submitted annually for the first ten years and then every five years unless noted; the first report will be submitted within 30 days of the initial monitoring and inspection operations. Subsequent reports will be submitted within 30 days of the submittal of the initial report unless otherwise noted or as directed by DEC in response to a specific monitoring condition or violation. Reports will be certified by a New York State licensed engineer.

The inspection reports will include:

1. Brief Summary
2. Site Inspection Documentation
3. As noted, photographs documenting site conditions.

The content and scope of the inspection reports may be subject to change based on the termination or reduction in frequency of monitoring and maintenance activities. DPR will advise through a transmittal letter included with the inspection report of any changes within the inspection report. Inspection reports will be sent to:

NYSDEC Region 2 Office
C/O Division of Materials Management
1 Hunters Point Plaza
47-40 21st Street
Long Island City, NY 11101

As relevant and in accordance with specific component plans, DPR may consult with DEC for guidance regarding the appropriate data to demonstrate whether or not DPR has achieved the performance goals that would provide the basis for modifying or terminating any or all components of the plan.

Component	Frequency	Duration
Final Cover System	Quarterly	5 years
LFG System	Quarterly	5 years
Infrastructure	Bi-Annually Annually	10 years 15 years
Groundwater Monitoring	Annually	3 years*
Long Term Settlement Plates	Quarterly	5 years*
Parking Lot Asphalt Cover (April & October)	Bi-Annually Annually	5 years* 20 years*

*Denotes Dependent on Cessation of Activity

3.3.2.1 Final Cover System

The integrity of the final cover system will be inspected by DPR quarterly and will report to DEC on an annual basis during the post-closure period to observe and document changes as they occur to the cover system.

Inspection frequencies, procedures and documentation are applicable to erosion damage, vegetative cover condition, settlement and the cover drainage system. Those systems that may specifically impact the integrity of the final cover system.

Final Cover System inspections are performed routinely as part of the Golf Course Operations and Management Manual, as the integrity of the cover system is paramount to the success of the Golf Course. The maintenance of the golf course will be performed by Trump Ferry Point LLC with inspections performed by a duly appointed DPR representative. Please refer to Appendix I.5 of this plan for further information regarding the Golf Course management operations..

DPR agrees to a rolling five-year plan, whereby DPR may petition to modify or terminate the final cover inspection requirements by demonstrating that the integrity of the final cover system has been maintained in accordance with performance criteria established in the 2013 Permit. DPR may consult with DEC to ensure that DPR is collecting and reporting the appropriate data for this purpose. For the purpose of reporting a yearly inspection report will be submitted verifying the integrity of the final cover system for a period of thirty years, unless otherwise approved by DEC for the Ferry Point Park East Site. The report will be certified by a New York State licensed engineer. The inspections will be performed by an appointed DPR representative. Commencing within 60 days of the submittal of the post construction certification report and then undertaken annually within 30 days of the submittal of the initial report.

As part of the inspection, DPR or their duly appointed representative will:

(a) verify the cover systems are being maintained as per routine visual inspections observing and noting any significant diversions from the final cover system. Any findings will be recorded in the inspection report.

(b) DPR will inspect the surface of the cover for evidence of erosion within one week of a storm event with precipitation amounts greater than a 100 year storm event or as otherwise directed by DEC for any precipitation event. If erosion damage greater than eight inches in depth has occurred, or if an area greater than one quarter of an acre of vegetative cover has been destroyed due to erosion, corrective action will be initiated within 30 days of the incident.

(c) in the unlikely event that a large unexplained settlement problem, or vegetative die-off occurs, examine the subsurface conditions beneath the distressed areas. Non-destructive techniques will be utilized at the location of the problem where there is significant contrast from surrounding areas and evidence of large scale settlement. Excavation of test pits will not be conducted due to the

complexity of the designs. If the exploratory operation penetrates the areas where a demarcation layer is placed, then it will be excavated and patched according to the sub surface plan. Backfill for exploratory operations above the demarcation layer will be of a material compatible with the final cover system plan. The exploratory operations will be backfilled with suitable material from their total depth to the ground surface. Photographic documentation of these operations will be included with the inspection report.

(d) note any bare areas susceptible to erosion and the presence of deteriorated or dead vegetation.

(e) during each of the inspections, observe the cover drainage system and note any presence of debris in the discharge pipes or waterlogged soil condition which may indicate that the drains are not functioning. If debris is found in discharge pipes that will be initiated within 14 days to clear the pipes.

Documentation: DPR or their duly appointed representative will submit to NYSDEC, Department of Materials Management correspondence that contains the information noted above as well as provides for an explanation of any contingency actions.

Contingency Action: If significant maintenance is required as a result of the inspections, unless otherwise noted, DPR has 60 days to remedy the issue. If it is determined that the issue cannot be resolved within the 60 days, DPR will immediately inform NYSDEC and request an extension of time based on the scope of work necessary to bring the issue to closure. A report will be submitted to NYSDEC within 60 days of completion of work that documents the specific close-out of the action item. DPR agrees to notify DEC within 7 days of detecting any significant issue found during inspection, and to provide a schedule and plan for remedying the condition. DPR will take steps to stabilize the condition within 60 days unless directed by DEC to expedite the remedial work, or, if the remedial action will take longer than 60 days to implement, and DEC has agreed to an extended schedule.

3.3.2.2 Landfill Gas Management

Operations, monitoring and maintenance (OM&M) for the Site's LFG management system will take place on an ongoing, routine schedule with additional inspections to address maintenance concerns and potential alarm call-outs, and to provide contingency monitoring and actions as needed. The OM&M plan for the Site is presented in Section 6 of the LFGMP (located in Appendix F.1 of the October 2013 Supplemental Engineering Report).

OM&M of the piezometer network is also incorporated into Section 6 of the LFGMP (see Appendix F.1). OM&M operations regarding landfill gas are to be in compliance with the LFGMP.

The LFG inspection report will be submitted to NYSDEC as a part of the annual monitoring and inspection report unless otherwise noted within the OM&M plan. Monitoring and inspection will commence concurrently within 60 days of the approval of the construction certification report unless otherwise noted within the OM&M plan.

3.3.2.3 Groundwater Characterization Monitoring

Groundwater characterization monitoring infrastructure inspections will be performed 30 days prior to the sampling events to ensure that infrastructure necessary to successfully perform the sampling event is in adequate working condition.

Upon commencement of operation of the golf course, groundwater infrastructure inspections will take place annually.

DPR agrees to perform operational groundwater sampling and reporting for a minimum of three years after construction, with the goal of demonstrating whether or not operation of the Park adversely impacts on water quality with respect to leachate quality or quantity, and whether or not operation of the park meets the performance criteria established in the permit modification. DPR may consult with DEC to ensure that DPR is collecting the appropriate data to achieve the performance goals that would provide the basis for a cessation of groundwater sampling or a reduction in sampling frequency. Commencing within 60 days of the submittal of the post construction certification report and then undertaken annually within 30 days of the submittal of the initial report. Inspections will continue annually past the eight year term of inspections only if the petition to discontinue monitoring is denied. At that time a revised inspection timeline will be submitted to NYSDEC as an addendum to this plan.

As part of this inspection, DPR or their duly appointed representative will:

(a) inspect the monitoring wells to confirm the area surrounding the well is free of debris and vegetation that may affect the ability to accurately sample the wells. If the area is not free of debris or vegetation all materials that hinder the ability to sample will be removed 72 hours prior to the sampling event.

(b) confirm that all components and parts of the well are working correctly and free of defect or damage that affects the ability to accurately sample the wells. If all the components and parts of the well are not functional, all repairs must be completed 24 hours prior to the sampling event.

Documentation: DPR or their duly appointed representative will submit to NYSDEC, Department of Materials Management correspondence that contains the information noted above as well as provides for an explanation of any contingency actions.

Contingency Action: If it is determined that the issue cannot be resolved within the 30 days, DPR will immediately inform NYSDEC and request an extension of

time based on the scope of work necessary to bring the issue to closure. And a revised monitoring date will be included with the request. A report will be submitted to NYSDEC within 60 days of completion of work that documents the specific close-out of the action item.

3.3.2.4 Long Term Settlement Plates

Long term settlement plate inspections will be performed 30 days prior to the settlement plate monitoring event on an annual basis commencing within 60 days of the submittal of the post construction certification report and then undertaken annually within 30 days of the submittal of the initial report. As DPR may petition for decreased monitoring frequencies if data supports the request at year five, inspections of the settlement plate locations will terminate based on the NYSDEC decision. Consistent with the rolling five-year schedule DPR agrees to monitor the long term settlement plates in accordance with the performance goals established in the 2013 permit until DPR has demonstrated to DEC that continued monitoring is no longer necessary. If additional monitoring is required inspections will continue on an annual basis until otherwise approved by DEC.

As part of this inspection, DPR or their duly appointed representative will:

(a) verify that the settlement plate location is being maintained to allow for the proper monitoring of the settlement . If the area is not properly maintained, the area will be properly cleared 48 hours prior to the monitoring event.

(b) visually inspect the monitoring apparatus, if the apparatus is not fully functional via the visual inspection, DPR will remedy the settlement plate apparatus 48 hours prior to the monitoring event.

Documentation: DPR or their duly appointed representative will submit to NYSDEC, Department of Materials Management correspondence that contains the information noted above as well as provides for an explanation of any contingency actions.

Contingency Action: If it is determined that the issue cannot be resolved within the 30 days, DPR will immediately inform NYSDEC and request an extension of time based on the scope of work necessary to bring the issue to closure. And a revised monitoring date will be included with the request. A report will be submitted to NYSDEC within 60 days of completion of work that documents the specific close-out of the action item.

3.3.3 Sub-Surface Operations Plan

The Sub Surface Operations plan reviews those appropriate controls to protect worker health and safety and assure that soils meeting the cover layer materials requirements are restored. As previously stated, DPR contemplates an amendment to this plan once construction operations on the site are finalized based on final construction information.

The amendment will be submitted within 90 days of the approval of the certification report.

1. The Plan will apply to disturbances of material below the cover layer (i.e. soils at a depth below the finished grade of greater than one foot or two feet) or for areas where the demarcation layer is required to be breached.

2. For purposes of the Plan, sub surface activities will be characterized as either routine or non-routine as described below:

   A. Routine Disturbances

   Routine disturbances are those generally associated with the operations and maintenance of the project. Examples include localized pipeline or electrical replacement/repairs, drainage system repairs, building or pond system repairs. These disturbances will always encompass less than one acre in area.

   B. Non-Routine Disturbances

   Non-routine disturbances are those not generally associated with the operations and maintenance of the project and larger projects. Examples include pipeline excavation and replacement, course upgrade involving re-grading. All disturbances of greater than one acre in area will be considered non-routine. Based on the nature of the disturbance and applicable regulatory guidance, inspection certification by a qualified environmental professional may be required and will be vetted with the advance notification to DEC. The below table presents the various plan elements to be prescribed and initiated for both routine and non-routine disturbances. As necessary additional information is provided below the table:

Management Element	Routine Disturbances	Non-Routine Disturbances
Advanced Notification to NYSDEC	No	Yes
Initiation of Worker Health and Safety Plan	Yes	Yes
Inspections certification by Environmental Professional	No	Yes
Dust Control	No	Yes
Stockpile Protection	Yes	Yes
Stormwater Pollution Prevention	No	Yes, if greater than 1 acre of disturbance
Segregation of existing cover material for reuse	Yes	Yes
New cover layer material option	Yes	Yes
Excess Soil Material Disposal	Yes	Yes
MSW Segregation & Disposal	Yes, but not anticipated	Yes, to the extent excavated

In all areas where the demarcation layer is breached, the layer must be re-installed to include the original area of coverage removed during operations. Once the de-

marcation layer is re-installed backfilling of compatible materials to those removed may occur.

When stockpiling occurs, all material above the demarcation layer or material within one or two feet (as applicable by the recreational designation) will be segregated for re-use. Material will be visually inspected upon excavation to ensure comingling does not occur.

The material designated for re-use will be segregated from other excavated materials and placed in a location proximate to the excavated area. The stockpiles will be visibly marked for re-use via placards or other similar methods. Material stockpiles will consist of approximately 500 cubic yards. These piles will generally have a 60 ft by 60 ft footprint and be approximately 6 ft in height. The material stockpiled will be covered with plastic sheets at end of each day. Plastic sheet covers will be weighted down with sand bags or equal at the end of the day to avoid a sailing effect.

Material that is not designated for re-use will be removed from the site and transported to a facility compatible to the disposal requirements. The material will be characterized to ensure proper disposal prior to leaving the site. A report of the material characterization and the identification of the disposal location will be submitted as part of the routine and non-routine reporting requirements.

At times, additional cover layer material may be required to be imported to the site to supplement that material identified for re-use. This material will meet the performance requirements for each component of the Ferry Point Park East project as subject to the Permit. However, one chemical analytical test will be performed per 10,000 cubic yards of cover material to be imported if the material is specifically of the nature of non-exempt construction debris as under the jurisdiction of the permit. If the material to be used is commercially available and purchased for the purpose of replacing or supplementing the cover layer this material is exempt from analytical testing. The analytical report will be included as part of the post event reporting.

Documentation: DPR or their duly appointed representative will submit to NYSDEC, Department of Materials Management correspondence that contains the following information as it relates to routine or non-routine actions:

1. Routine Actions: These actions will be reported as part of the annual inspection report. The report will include proper documentation including a written summary of the event, photographic documentation and a location plan of the routine action.
2. Non-Routine Actions: These actions will be reported to NYSDEC 60 days prior to an event. This notification will include summary documentation regarding the scope of the action and a schedule for the commencement and conclusion of the action and any designs or details as deemed applicable by DPR. Within 90 days of completion, DPR will provide NYSDEC a report

documenting close-out of the action and provide updated as-built drawings as necessary.

If non-routine actions are imminently required due to site safety or operational risks, DPR will immediately inform NYSDEC of the action and commence operations as necessary.

Within 10 days of the commencement of these operations DPR will provide NYSDEC with a draft schedule of completion.

Within 90 days of completion, DPR will provide NYSDEC a report documenting close-out of the action and provide updated as-built drawings as necessary.

3.3.4 Health and Safety Plan and Emergency Contact

A Site-Wide Health and Safety Plans (HASP) was developed for construction operations at Ferry Point Park East and approved by DPR in 2009. Based on sub surface post construction operations and maintenance certain portions or the plan in its entirety will be instituted. The HASP is attached as Appendix I.1.

The DPR appointed emergency contact personnel for the site will be submitted with the amended sub surface operations plan. If there are personnel changes this will be noted via an e-mail correspondence to NYSDEC upon identification of the new personnel and noted in the annual report.

3.4 Consent Order Maintenance

As per the Order of Consent the following inspection schedule attached as Appendix I.1 specific to "Attachment "A" Proposed Handling of Ferry Point Park Soil Stockpile, Item 6 will be followed:

"*Once the asphalt top course is installed, the asphalt surfaces of the clubhouse and maintenance facility parking lots will be inspected during April and October every year by a licensed professional engineer ("engineer") who is registered to practice in New York State. Within thirty days (30) days of such inspections, the engineer will submit to the Department a stamped and certified written detail report, including photo documentation, regarding the condition of the asphalt surfaces and their adequacy, including photo documentation, regarding the condition of the asphalt surfaces and their adequacy to effectively function as covers. A description of any needed repairs will be included in the engineer's report.*

Item 7, Any repairs deemed necessary by the engineer must be completed by New York City Department of Parks and Recreation ("NYC Parks") within fifteen (15) days of the notification by the Department to NYCDPR to begin such repairs. A certification, including supporting written and photo documentation must be submitted by NYC Parks within fifteen (15) days after completion of repairs."

3.5 Golf Course Maintenance Guidelines

The **Maintenance Guidelines for Trump Golf Links at Ferry Point Park** attached as Appendix I.5 provides for the operations and maintenance of the golf course by the Concessionaire for a period of 25 years commencing once the golf course is operational. The manual describes those operations and maintenance activities contemplated as part of the day to day operations of the golf course facility. The maintenance guidelines are subject to amendment and revision based on site conditions over time.

E-4

Bally's Bronx
2023 Semi Annual Post Closure Certification Report
Prepared by: ***GEI Consultants, Inc., P.C.***

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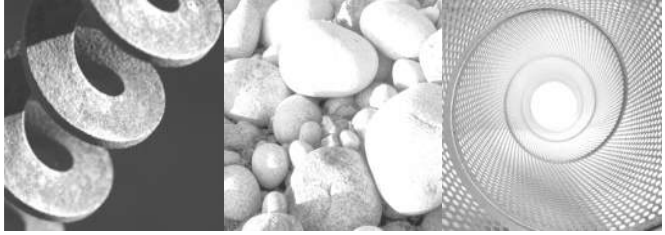

GEI Consultants

Consulting
Engineers and
Scientists

2023 Semi-Annual Post-Closure Certification Report

Ferry Point Park
500 Hutchinson River Parkway
Bronx, New York 10465
NYSDEC Part 360 Permit No. 2-6006-00014/00013
(2-6006-00014/00016)

Prepared for:
New York State Department of
Environmental Conservation
Division of Materials Management, Region 2
47-40 21st Street
Long Island City, New York 11101

On Behalf of:
New York City Department of Parks & Recreation
Capital Projects – Environmental Remediation Unit
Olmsted Center
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Corona, NY 11368

Prepared by:
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October 2023
Project 2204594

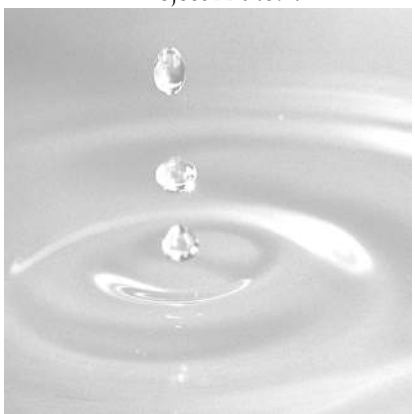

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Appendices

A. Cover System and Infrastructure Inspection Reports
B. Groundwater Sampling Summary Report – 2023 Sampling Event
NYSDEC Groundwater Sampling Reduction in Frequency Letter
C. Landfill Gas Monitoring Reports
D. Piezometer Monitoring Reports
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NYSDEC Settlement Plate Monitoring Termination Letter
F. Sub-Slab Depressurization System Monitoring Reports

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Certification

I, Gary Rozmus, P.E., am currently a registered professional engineer licensed by the State of New York. On behalf of New York City Department of Parks & Recreation (NYCDPR) and acting as its consultant, I hereby certify to the best of my knowledge, and based on all of the information made available to me, that the post-closure activities summarized in this report and performed at the Ferry Point Park Golf Course project site in Bronx, New York, were completed in general accordance with the Post-Closure Custodial Care Plan (PCCCP), originally included in the Supplemental Engineering Report dated October 15, 2013 (Volume 3, Appendix I), and as stated in Special Condition No. 35 of the New York State Department of Environmental Conservation (NYSDEC) Part 360 Permit No. 2-6006-00014/00013 (2-6006-00014/00016), effective May 21, 2014.

To the best of my knowledge, the statements included in this 2023 Semi-Annual Post-Closure Certification Report are accurate based on the information available. GEI Consultants has not knowingly falsified any of the information presented in this document. The post-closure monitoring activities and deliverables included in this report were performed by GEI Consultants, subcontractors, and field personnel under my supervision.

This statement does not apply to the Waterfront Park. It is our understanding that the originally developed plans for the Waterfront Park were revised to reflect a passive open space with multiuse paths, lookout points and a constructed wetland. The Waterfront Project was removed from the New York Codes, Rules and Regulations (6 NYCRR) Part 360 Permit No. 2-6006-00014/00013 and NYSDEC and United States Army Corps of Engineers (USACE) issued Tidal Wetlands permits to the revised Waterfront.

Date signed and sealed:

10/04/2023

Gary Rozmus, P.E.
NY License #056744

1. Introduction

This Semi-Annual Post-Closure Certification Report documents the work performed by New York City Department of Parks & Recreation (NYCDPR) and its contractors to complete the post-closure activities conducted from January 2023 through June 2023 at the Ferry Point Park (Site), located at 500 Hutchinson River Parkway, Bronx, New York. Post-closure activities were conducted in accordance with the Post-Closure Custodial Care Plan (PCCCP), originally included in the Supplemental Engineering Report dated October 15, 2013 (Volume 3, Appendix I), as stated in Special Condition No. 35 of the New York State Department of Environmental Conservation (NYSDEC) Part 360 Permit No. 2-6006-00014/00013 (2-6006-00014/00016). Post-closure monitoring activities include piezometer monitoring, landfill gas (LFG) monitoring, sub-slab depressurization system (SSDS) monitoring, cover system and infrastructure inspections, settlement plate monitoring, groundwater sampling, and infrastructure repairs and upgrades (if needed).

In accordance with the PCCCP, piezometer monitoring was conducted monthly. On a quarterly basis, SSDS and LFG monitoring were performed, as well as cover system and infrastructure inspections. Settlement plate monitoring was conducted annually, however, as of June 15, 2023, NYSDEC has approved the cessation of all future annual settlement plate monitoring. Biennial groundwater sampling was conducted in April 2023. Copies of the post-closure monitoring activity reports conducted between January 2023 and June 2023 are provided as appendices to this report.

1.1 Site History

Historically, Ferry Point Park operated as a municipal solid waste landfill from 1951 to the 1960s. The landfill was operated by the New York City Department of Sanitation (NYCDOS), with operations ceasing in the 1960s. The entire site was capped thereafter with a soil cover of varying thickness. In the late 1990s, NYCDPR entered into an agreement to develop and operate a new public recreation facility including a 10-acre community park, 180-acre golf course, 19.5-acre waterfront park, as well as related facilities (referred to collectively as "Ferry Point Park"). Ferry Point Park is bounded by the East River to the south, Schley Avenue and St. Raymond's Cemetery to the north, Miles, Balcom, and Emerson Avenues to the east, and Hutchinson River Parkway and the Whitestone Bridge to the west.

The Site is operated as a part of the NYCDPR system; the Community Park and Waterfront Park are operated and maintained by the NYCDPR Borough of the Bronx Operations and Maintenance division (or an appointed representative), the Golf Course was operated and maintained by a Concessionaire identified as Trump Ferry Point, LLC, which has since been transferred to the Bally's Corporation as of September 13, 2023. NYCDPR remains responsible for all inspection monitoring, reporting, and oversight of operations and maintenance of the

pertinent Site-wide components identified in the PCCCP. While the 19.5-acre Waterfront Park is included as a portion of "Ferry Point Park," the Waterfront Park area is not included in the scope of post-closure monitoring or within this report. The originally developed plans for the Waterfront Park were revised to reflect a passive open space with multiuse paths, lookout points and a constructed wetland. The Waterfront Project was removed from the New York Codes, Rules and Regulations (6 NYCRR) Part 360 Permit (2-6006-00014/00013) and NYSDEC and United States Army Corps of Engineers (USACE) issued Tidal Wetlands permits to NYCDPR for the revised Waterfront.

2. Post-Closure Monitoring Program

2.1 Cover System and Infrastructure Inspection

In accordance with Section 3.3.2.1 of the PCCCP, quarterly monitoring of the final cover system is required during the post-closure period to observe and document vegetative cover conditions, settlement, erosion damage, and cover drainage systems. Additionally, as stated in Section 3.3.2 of the PCCCP, biannual infrastructure inspections of the LFG vents are required; the LFG system included 25 individual passive vents and 12 passive utility collar vents located within the golf course, 12 passive vents located within the community park, as well as additional passive vents through the Site corresponding to features such as the water quality pond liners. Cover system and/or infrastructure inspections were conducted on the following dates:

- March 30, 2023
- June 26 and 27, 2023

In addition, an inspection of the asphalt pavement of the Clubhouse parking lot was conducted on the following date:

- June 27, 2023

Cover inspection and parking lot pavement inspection reports for the referenced events are provided in Appendix A. Overall, the cover system remains in good condition with some areas that required re-seeding and mulching, clearing of clogged drains, and some areas of washout into cart paths. These minor deficiencies were communicated to and are closely addressed/monitored by the Concessionaire. Additionally, the asphalt surface of the parking lot continues to function as a suitable landfill cover system, providing an exposure barrier between the public and subsurface materials. Any observed cracks are surficial and do not penetrate through the full asphalt cap.

2.2 Groundwater Monitoring

In accordance with the NYSDEC Part 360 Permit No. 2-6006-00014/00013 and the NYSDEC letter dated January 7, 2020, groundwater sampling requirements have been modified to be conducted on a biennial basis. The preceding groundwater sampling event was completed in April 2021. Therefore, the biennial groundwater sampling event was conducted on April 25 to 26, 2023.

Results from the groundwater sampling event indicate that groundwater flow direction and elevation have remained consistent across the Site. The analytical results for samples collected during the April 2023 event indicate that the groundwater in certain locations beneath Site

contains volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, ammonia, sulfate, and cyanide above NYSDEC Ambient Water Quality Standards (AWQS). With the exception of cyanide, the April 2023 event detections of VOCs, SVOCs, metals, and phenolics are generally consistent in location and/or concentration with previous sampling events. The presence of cyanide is generally consistent with other previous post-closure monitoring events, however, exceedances of the AWQS were only reported during the 2023 sampling event at two sampling locations (PZ-15 and GMW-10).

The report summarizing sampling methodology and locations, analytical results, conclusions and recommendations is included in Appendix B.

2.3 Landfill Gas Monitoring

In accordance with NYSDEC Part 360 Permit No. 2-6006-00014/00013, the PCCCP, and the Landfill Gas Management Plan dated 2013, annual and quarterly monitoring is required for offsite and perimeter LFG monitoring points during the post-closure period. In addition to the LFG monitoring wells located within the interior and exterior of the golf course, passive LFG vents stationed in the interior of the golf course were also monitored. LFG monitoring included the collection of oxygen (O_2), carbon monoxide (CO), methane (percent lower explosive limit [LEL], percent methane by volume), hydrogen sulfide (H_2S), VOCs, well pressure, humidity, air flow, vacuum pressure, and/or temperature measurements. LFG data was collected utilizing a Landtek GEM 5000 Plus with temperature probe, photoionization detector (PID), and a TSI Velocicalc. All equipment was calibrated prior to commencing the monitoring events.

LFG monitoring was conducted on the following dates:

- March 28 to 30, 2023
- June 27 to 28, 2023

The Q1 and Q2 2023 monitoring reports are provided in Appendix C. In general, the LFG monitoring results are consistent with previous post-closure monitoring events and suggests that LFG conditions are stable.

2.4 Piezometer Monitoring

In accordance with the October 2013 Landfill Gas Management Plan and the October 2013 PCCCP, monthly monitoring of piezometers is required. During each monitoring event, groundwater levels were measured using an electronic groundwater level meter. Piezometer monitoring was conducted on the following dates:

- January 31, 2023
- February 24, 2023

- March 29, 2023
- April 24, 2023
- May 22, 2023
- June 27, 2023

The Piezometer Monitoring Reports for the aforementioned dates are provided in Appendix D. The piezometer monitoring results indicate that all of the piezometers are in functional condition and there was sufficient groundwater elevation to inhibit methane migration beyond the landfill boundaries.

2.5 Settlement Plate Monitoring

Settlement plate monitoring was performed to detect and monitor the rate of settlement that may occur due to solid waste decomposition and was first conducted in 2013. Settlement plate monitoring was performed by GEI on March 29, 2023, in accordance with NYSDEC Part 360 Permit No. 2-6006-00014/00013, the PCCCP, and NYSDEC letter dated January 7, 2020, providing approval to modify the monitoring frequency from quarterly to annually.

The nine settlement plates were surveyed by New York State Licensed Land Surveyor Contractors Line and Grade South (Elmsford, NY). The following data was recorded for each settlement plate:

- Riser elevation
- Settlement
- Cumulative settlement (feet and inches)

Following performance and review of the March 2023 results, GEI recommended terminating all future settlement plate monitoring. Since 2013, the cumulative settlement was negligible, ranging from 0.00 ft to -0.30 ft across all nine plates. Based on these minor fluctuations in elevation, NYSDEC approved to terminate all future monitoring on June 15, 2023, as long as the former landfill continues to be utilized and maintained in its current condition as a golf course.

The March 2023 Annual Settlement Plate Monitoring Report, which includes the results of all previous settlement plate monitoring events, is provided in Appendix E. The NYSDEC letter approving termination of annual settlement plate monitoring is also included in Appendix E.

2.6 Sub-Slab Depressurization System Monitoring

In accordance with the October 2013 PCCCP, NYSDEC Part 360 Permit No. 2-6006-00014/00013, and the Landfill Gas Management Plan dated 2013, routine monitoring, operations, and maintenance of the sub-slab depressurization and combustible gas

(CG) monitoring systems is required to be performed on a quarterly basis during the post-closure monitoring period. A site-specific Operations, Maintenance, and Monitoring (OM&M) Manual was developed to address the requirements of the 2013 LFG Management Plan, including a comprehensive review and inventory of SSD and CG system design and construction. SSD and CG system OM&M is conducted on a quarterly basis in the Community Park Comfort Station, Golf Course Maintenance Building, Golf Course Comfort Station, the Cart Storage Barn, and the Golf Course Clubhouse.

SSD and CG system monitoring was conducted on the following dates:

- March 28, 2023
- June 26, 2023

Reports from the SSD and CG system monitoring events on the aforementioned dates are provided in Appendix F. Occasional readings from few SSDS points have detected a positive pressure gradient, which is believed to be associated with seasonal variations such as rise and fall of the water table. With the exception of these discrete anomalous pressure readings, the SSD systems are operating as intended and are overall maintaining negative pressure conditions beneath the building slabs, and thus no methane and very low levels of VOCs have been detected in the ambient air of the buildings.

All CG sensors were communicating with their respective control panels and registered ambient methane readings of 0.0% LEL. No elevated readings or alarm conditions were observed during the post-closure monitoring period.

3. Incidental Infrastructure Maintenance and Repairs

There were no infrastructure maintenance or repair activities conducted during this post-closure monitoring period related to the SSD and CG systems located in the Community Park Comfort Station, Golf Course Maintenance Building, Golf Course Comfort Station, the Cart Storage Barn, or the Golf Course Clubhouse.

The monitoring ports for certain LFG monitoring wells were noted to be damaged. The extent of damage is minimal and is primarily from cracked tubing leading out of the J-plugs for collecting measurements. In order to minimize future interference of ambient air during LFG monitoring, GEI will replace the cracked tubing containing holes with a more flexible tubing. These damaged monitoring ports are intended to be replaced during the Q3 2023 Landfill Gas Monitoring event.

Additionally, during the Q1 cover system inspection, two sections of fencing located along the fence line bounding the park and golf course were noted to be damaged. The damaged fencing along the northern portion of the fence was repaired by the Concessionaire by the time of the Q2 inspection. The damaged area along the southern fence line currently contains a temporary fence panel, however, a permanent repair is still required to be addressed by the Concessionaire.

4. References

Ecology and Environmental Engineering, P.C. "Ferry Point Park East Landfill Gas Management Plan." Originally submitted October 2011, Revised May 2012, August 2012, and October 15, 2013.

New York State Department of Environmental Conservation. Article 27, Title 7; 6NYCRR 360: Solid Waste Management Permit No. 2-6006-00014/00013/2-6006-00014/00016, Effective Date May 21, 2014. Special Condition No. 35 – Ferry Point Park East Post Construction Custodial Care Plan.

New York City Department of Parks and Recreation. "Ferry Point Park East Post Construction Custodial Care Plan." October 2013.

Appendix A

Cover System and Infrastructure Inspection Reports

April 7, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: Quarterly Final Cover System & Infrastructure Inspection - Quarter 1, 2023 (Report No. 28)
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the final cover system monitoring event conducted on March 30, 2023, at the Ferry Point Park Golf Course. Quarterly final cover system monitoring is conducted to observe and report vegetative cover conditions, cover drainage system, erosion damage, and settlement, in compliance with Section 3.3.2.1 of the October 2013 *Post Construction Custodial Care Plan*

During this inspection event, no cover system settlement was observed, and the cover drainage system appeared to be in good condition, with the exception of two area drains, across the Site.

Below is a summary of the observations denoted during the cover system inspection, with observed areas illustrated on **Figure 1**. A photo log documenting observed Quarter 1, 2023 cover system site conditions is attached:

- The Concessionaire was in the process of conducting annual vent trench maintenance at Hole 6 during the inspection (Photo 1). New mulch is expected to be delivered in the coming week, per the Concessionaire.

- Small animal burrows were noted in two locations (Photo 2). The Concessionaire was aware of these burrow locations and is set to address

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these locations by replacing the cover material and seed or sod the areas. Sod is made available from the onsite sod-farm.

- Areas of sparse vegetation and bare soil were observed in multiple locations throughout the Site, including the area where the Grandstands and media platforms were previously erected (Photo 3). These areas require vegetative stabilization; the Concessionaire was notified and will be addressing the noted locations.

- Walking and maintenance cart sand paths were observed throughout the golf course, with few requiring maintenance due to washout and erosion (Photo 4). The Concessionaire has been made aware of these washouts and understand they are responsible for preventing and correcting any sand erosion and washout in these sand paths.

- Two area drains were noted to be clogged with topsoil near Hole 1 and 15 (Photo 5). The Concessionaire stated that clogged area drains are addressed on a weekly basis.

- Previously reseeded areas in the spring and winter area showing vegetative regeneration (Photo 6).

- The outfall along the East River, adjacent to the Whitestone Bridge, was inspected during high tide. Debris and sediment were noted in the area around the structure (Photo 7 and 8).

- In the Ferry Point Community Park, along the fence line that bounds the park and golf course, a section of temporary fence is still present after being previously vandalized (Photo 9). Another area of the black fence is partially downed and requires repair (Photo 10). The Concessionaire was made aware and is to repair these areas of fencing.

Much of the vegetation is dormant due to the season, therefore new areas of limited, dormant, or no vegetation were noted by GEI during the cover system inspection. Please refer to previous reports which document areas with continued limited, dormant, or no vegetation.

Per the direction of previous reports, GEI communicated all field observations to the Concessionaire. The Concessionaire assured they will continue to monitor vegetative conditions on Site. Areas outside of the Concessionaire's maintenance responsibility shall be addressed by New York City Department of Parks & Recreation Maintenance and Operations (NYCDPR M&O).

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Site Map with Inspection Observations
Photo Log of Final Cover System Observations
Cover System Inspection Summary Table

c: M. Rowland, NYCDPR

K. Zias, NYCDPR

K. McCarty, GEI

SOURCE:
1. ESRI IMAGERY BASE MAP

0 450 900
SCALE: 1 " = 620 '

Ferry Point Park Bronx, New York Cover Inspection Report	GEI Consultants	QUATER 1 INSPECTION LOCATIONS
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	March 2023 Fig. 1

Photo Log
Quarterly Final Cover System Infrastructure Inspection - Quarter 1, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Photo 1: Looking northeast, the Concessionaire began the annual vent trench maintenance. New mulch is expected to be delivered in the coming week.

Photo 2: Looking southeast, animal burrow present at Hole 11. Also noted at Hole 5.

Photo 3: Looking southwest, previous area of Grandstands and media platforms with sparse vegetation (multiple locations, as illustrated on Figure 1).

Photo 4: Looking northeast, area of sand path washout onto paved cart path.

Photo 5: Looking southwest, area drain clogged with topsoil. Clogged drains present at Hole 1 and 15.

Photo 6: Looking southeast, previously reseeded area showing vegetative regeneration.

Photo 7: Looking northwest, condition of the outfall during high tide.

Photo 8: Looking northwest, debris and sediment present around the outfall location.

Photo 9: Looking southwest, temporary fencing present after previous vandalism.

Photo 10: Looking southwest, area of damaged fencing.

Cover System Inspection Summary Table
Date: As of 3/30/2023

Deficiency	Location(s)	Photo No.	Notification & Resolution		
			Concessionaire	NYCDPR M&O	Expected Completion
Vent trench mulch	1	1	x		Currently being addressed
Animal burrow	2	2	x		Addressed on rolling basis
Sparse vegetation	17	3	x		Addressed on rolling basis
Sand erosion along cart path	4	4	x		Addressed on rolling basis
Clogged area drains	2	5	x		Addressed on rolling basis
Outfall structure	1	7 & 8		x	TBD
Other: Community Park fence repair	2	9 & 10	x		TBD
Other:	N/A				

July 14, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Re: Quarterly Final Cover System & Infrastructure Inspection - Quarter 2, 2023 (Report No. 29)
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

Dear Ms. Catalanotto:

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the final cover system monitoring event conducted on June 26 and 27, 2023, at the Ferry Point Park Golf Course. Quarterly final cover system monitoring is conducted to observe and report vegetative cover conditions, cover drainage system conditions, erosion damage, and settlement, in compliance with Section 3.3.2.1 of the October 2013 *Post Construction Custodial Care Plan.*

During this inspection event, no cover system settlement was observed, and the cover drainage system appeared to be in good condition, with the exception of six (6) area drains across the Site.

Below is a summary of the observations denoted during the cover system inspection, with observed areas illustrated on **Figure 1**. A photo log documenting observed Quarter 2, 2023 cover system site conditions is attached:

- Since the Quarter 1 inspection, the vent trench along Hole 6 was observed with new mulch (Photo 1). The Concessionaire stated new mulch was added in April of 2023.

- No animal burrows were noted during this inspection event. However, the Concessionaire addresses animal burrows on an as-need basis by replacing

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the cover material and seed or sod the areas. Sod is made available from the onsite sod-farm.

- Areas of sparse vegetation and bare soil were observed in few locations throughout the Site, including the area near the Clubhouse and driving range (Photo 3). These areas require vegetative stabilization; the Concessionaire was notified and will be addressing the noted locations.

- Walking and maintenance cart sand paths were observed throughout the golf course, with few requiring maintenance due to washout and erosion (Photo 4). The Concessionaire has been made aware of these washouts and understand they are responsible for preventing and correcting any sand erosion and washout in these sand paths.

- Six (6) area drains were noted to be clogged with topsoil in various locations around the golf course, illustrated on Figure 1 (Photo 5). The Concessionaire stated that clogged area drains are addressed on a weekly basis.

- Previously re-seeded areas in the spring are showing vegetative regeneration (Photo 6).

- The outfall along the East River, adjacent to the Whitestone Bridge, was inspected during low and high tide. Debris and sediment were noted in the area around the structure (Photo 7 and 8).

- In the Ferry Point Community Park, along the fence line that bounds the park and golf course, a section of temporary fence is still present after being previously vandalized (Photo 9). A previously downed area of fence has been repaired (Photo 10). The Concessionaire was made aware and is to repair these areas of fencing.

Per the direction of previous reports, GEI communicated all field observations to the Concessionaire. The Concessionaire assured they will continue to monitor drainage and vegetative conditions on Site. Areas outside of the Concessionaire's maintenance responsibility shall be addressed by New York City Department of Parks & Recreation Maintenance and Operations (NYCDPR M&O).

If you have any questions, please feel free to contact me at (347) 514–3861.

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Site Map with Inspection Observations
Photo Log of Final Cover System Observations
Cover System Inspection Summary Table

c: K. Zias, NYCDPR

K. McCarty, GEI

SOURCE:
1. ESRI IMAGERY BASE MAP

0 450 900
SCALE: 1 " = 620 '

Ferry Point Park Bronx, New York Cover Inspection Report	GEI Consultants	QUATER 2 INSPECTION LOCATIONS
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	July 2023 Fig. 1

Photo Log
Quarterly Final Cover System Infrastructure Inspection - Quarter 2, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Photo 1: Looking northeast, the Concessionaire replaced the vent trench mulch in April 2023.

Photo 2: Looking northwest, well maintained sand cart path adjacent to Hole 12.

Photo 3: Looking west, area fronting the Clubhouse requiring vegetation stabilization.

Photo 4: Looking north, area of sand path washout onto paved cart path.

Photo 5: Looking southwest, area drain clogged with topsoil. Clogged drains present at Hole 1 and 15.

Photo 6: Looking southwest, previously reseeded area showing vegetative regeneration.

Photo 7: Looking northwest, condition of the outfall during high tide.

Photo 8: Looking northwest, condition of the outfall during low tide.

Photo 9: Looking southwest, temporary fencing present after previous vandalism.

Photo 10: Looking southwest, area of previously downed fence, now repaired.

Cover System Inspection Summary Table
Date: As of 6/26/2023

Deficiency	Location(s)	Photo No.	Notification & Resolution		
			Concessionaire	NYCDPR M&O	Expected Completion
Vent trench mulch	None	1	x		New mulch added in April 2023
Animal burrow	None		x		Addressed on rolling basis
Sparse vegetation	3	3	x		Addressed on rolling basis
Sand erosion along cart path	14	4	x		Addressed on rolling basis
Clogged area drains	6	5	x		Addressed on rolling basis
Outfall structure	None	7 & 8		x	
Other: Community Park fence repair	1	9 & 10	x		TBD
Other:	N/A				

July 14, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Re: First (1 of 2) Semi-Annual 2023 Parking Lot Pavement Inspection Report
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

Dear Ms. Catalanotto:

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the parking lot asphalt inspection event conducted in June 2023 at the Ferry Point Park Golf Course. Semi-annual parking lot inspections assess the condition of the asphalt surface in the Ferry Point Park Golf Course (Golf Course) Clubhouse parking lot and determine if the asphalt surface is functioning as an effective landfill cover system. Inspections are conducted in compliance with Sections 3.3.2 and 3.4 of the October 2013 *Post Construction Custodial Care Plan* and Paragraph 6, Appendix A of NYSDEC Order of Consent, Case No. R2-20100521-172 dated January 10, 2011.

On June 27, 2023, GEI mobilized to Site to conduct the first (1 of 2) 2023 semi-annual asphalt inspection of the Clubhouse parking lot. The last semi-annual asphalt inspection was completed in December 2022. Observations noted during the June 2023 inspection event are included below:

- The majority of the Golf Course Clubhouse Parking Lot was accessible and visible, except for Location 22. Location 22 was inaccessible due to the placement of storage units. This observation is consistent with the asphalt cover inspections dating back to June 2019.

- Longitudinal cracking was observed in the asphalt surface in the locations noted on Figure 2. The majority of crack depths ranged between 0.25 and

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4.00 inches, and the majority of crack widths ranged between 0.125 and 1.50 inches.

Based on observations from the June 2023 inspection, GEI concludes that the Clubhouse Parking Lot asphalt surface is functioning as a suitable landfill cover system, providing an exposure barrier between the public and subsurface materials. The observed crack depths and widths appear to be surficial in nature and do not penetrate through the full asphalt cap. Additionally, a minimum of two (2) feet of clean material is located underneath the asphalt surface and above the landfill surface in the northern portion of the Clubhouse Parking Lot where the cracks were observed.

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Site Location Map
Figure 2 – Observation Location Map
Table 1 - Summary of Asphalt Crack Measurements
Photographic Log

c: K. Zias, NYCDPR
K. McCarty, GEI

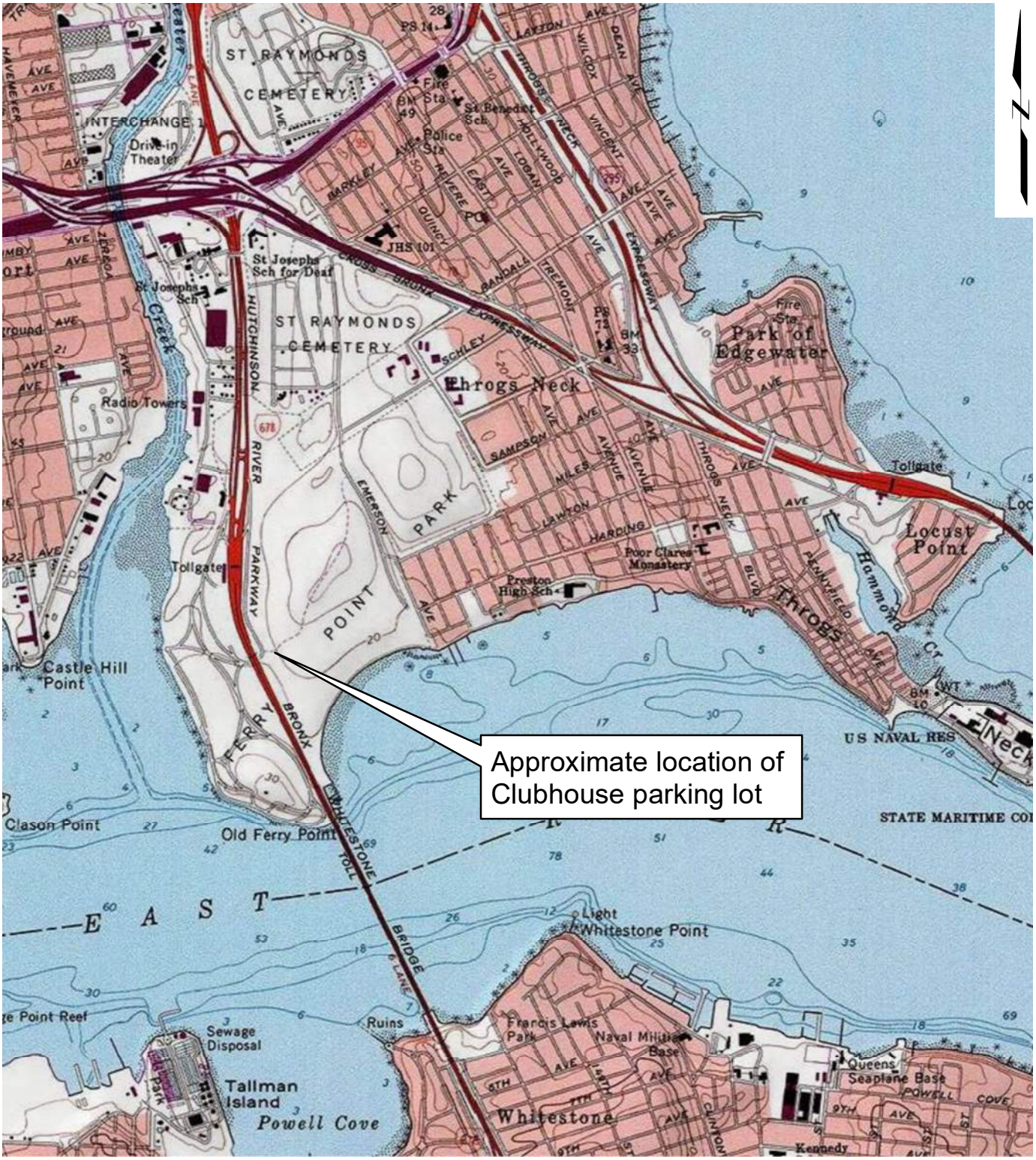

SOURCE:
1. ESRI IMAGERY BASE MAP

0 1,400 2,800
SCALE: 1 " = 2,000 '

Ferry Point Park Bronx, New York Semi-Annual Parking Lot Pavement Inspection	GEI Consultants	SITE LOCATION
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	July 2023 Fig. 1

B:\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\Reports\Asphalt Inspections\GEI Inspections\First Half 2023\Figure 1 - Site Location.mxd

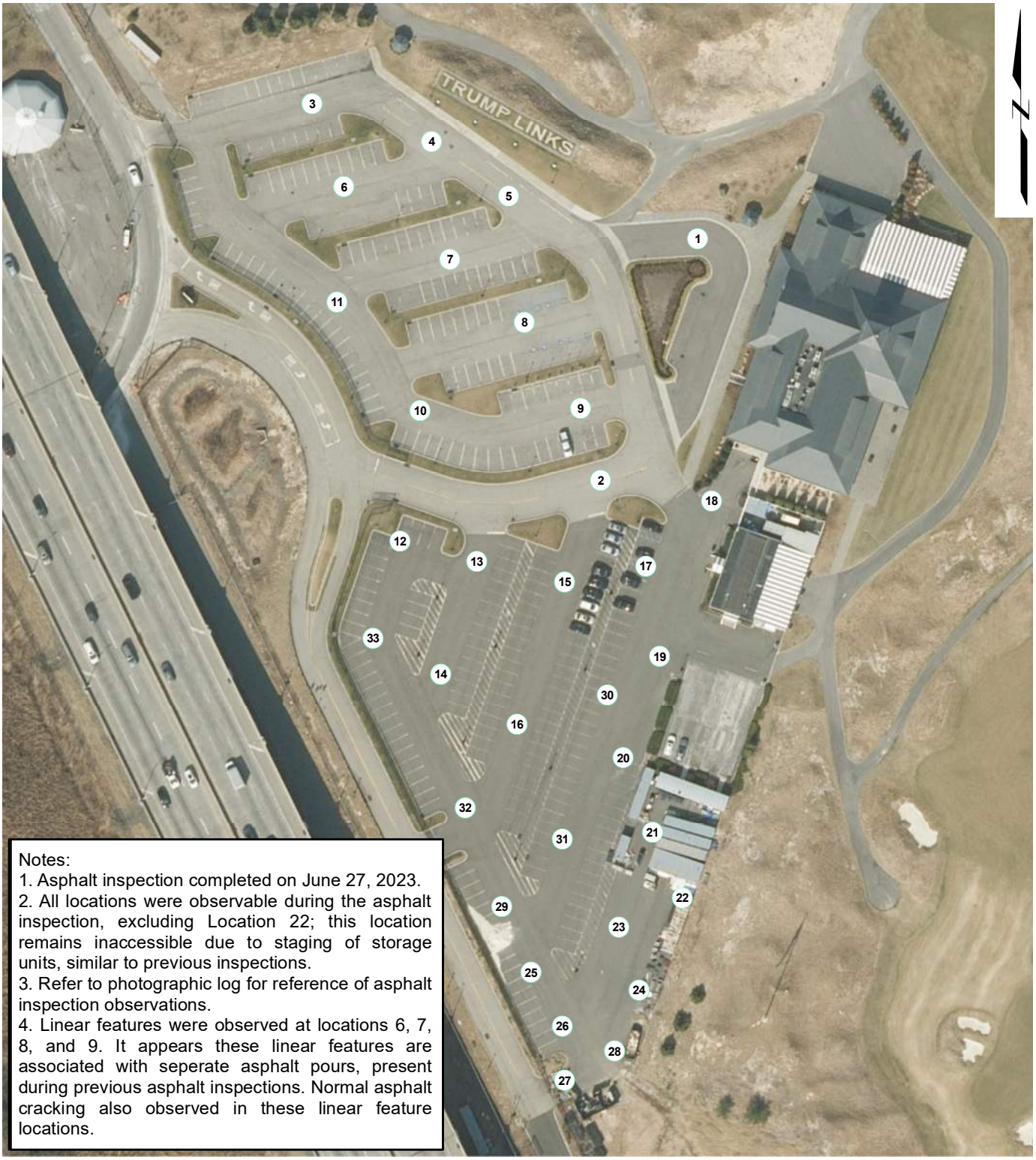

Notes:
1. Asphalt inspection completed on June 27, 2023.
2. All locations were observable during the asphalt inspection, excluding Location 22; this location remains inaccessible due to staging of storage units, similar to previous inspections.
3. Refer to photographic log for reference of asphalt inspection observations.
4. Linear features were observed at locations 6, 7, 8, and 9. It appears these linear features are associated with seperate asphalt pours, present during previous asphalt inspections. Normal asphalt cracking also observed in these linear feature locations.

SOURCE:
1. ESRI IMAGERY BASE MAP

0 80 160
SCALE: 1 " = 110 '

Ferry Point Park Bronx, New York Semi-Annual Parking Lot Pavement Inspection	GEI Consultants	ASPHALT SURFACE CRACK LOCATIONS
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	July 2023 Fig. 2

B:\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\Reports\Asphalt Inspections\GEI Inspections\First Half 2023\Figure 2 - Asphalt Surface Crack Locations.mxd

Table 1
Summary of Asphalt Crack Measurements
June 26, 2023
Ferry Point Park Golf Course
Bronx, NY

Crack ID	Crack Width (in)	Crack Depth (in)	Solid Bottom	Notes
1	0.125 - 0.25	0.125 - 0.50	Y	
2	0.125 - 0.50	0.125 - 3.00	Y	
3	0.125 - 0.50	0.125 - 2.125	Y	
4	0.125 - 0.50	0.125 - 2.00	Y	
5	0.125 - 0.50	0.125 - 3.00	Y	
6	0.125 - 0.50	0.125 - 1.25	Y	
7	0.125 - 0.25	0.125 - 2.00	Y	
8	0.125 - 0.50	0.125 - 1.75	Y	
9	0.125 - 1.50	0.125 - 2.75	Y	
10	0.125 - 0.75	0.125 - 2.125	Y	
11	0.125 - 1.50	0.125 - 4.00	Y	
12	0.125 - 0.50	0.125 - 2.25	Y	
13	0.125 - 0.50	0.125 - 1.50	Y	
14	0.125 - 0.50	0.125 - 2.00	Y	
15	0.125 - 0.50	0.125 - 2.50	Y	
16	0.125 - 0.50	0.125 - 1.50	Y	
17	0.125 - 0.50	0.125 - 2.00	Y	
18	0.125 - 1.125	0.125 - 3.00	Y	
19	0.125 - 0.25	0.125 - 1.50	Y	
20	0.125 - 1.00	0.125 - 1.125	Y	
21	0.125 - 0.50	0.125 - 1.50	Y	
22	-	-	-	Inaccessible - Covered by storage containers
23	0.125 - 0.50	0.125 - 2.25	Y	
24	0.125 - 0.75	0.125 - 2.25	Y	
25	0.125 - 0.50	0.125 - 2.00	Y	
26	0.125 - 1.00	0.125 - 1.00	Y	
27	0.125 - 1.50	0.125 - 2.00	Y	
28	0.125 - 1.50	0.125 - 3.50	Y	
29	0.125 - 1.00	0.125 - 2.00	Y	
30	0.125 - 0.50	0.125 - 2.00	Y	
31	0.125 - 1.00	0.125 - 2.00	Y	
32	0.125 - 0.50	0.125 - 1.75	Y	
33	0.125 - 0.50	0.125 - 2.50	Y	

Photographic Log

Photo 1	Location 1	6/27/2023

Photo 2	Location 6	6/27/2023

Photo 3	Location 9	6/27/2023

Photographic Log

Photo 4	Location 13	6/27/2023

Photo 5	Location 16	6/27/2023

Photo 6	Location 18	6/27/2023

Photographic Log

Photo 7	Location 24	6/26/2023

Photo 8	Location 27	6/26/2023

Photo 9	Location 31	6/27/2023

Appendix B

Groundwater Sampling Summary Report – 2023 Sampling Event

NYSDEC Groundwater Sampling Reduction in Frequency Letter

August 9, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: Groundwater Sampling Summary Report – 2023 Sampling Event
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the groundwater sampling event conducted on April 25 - 26, 2023, at the Ferry Point Park Golf Course. Groundwater sampling was performed in compliance with the New York State Department of Environmental Conservation (NYSDEC) Permit No. 2-6006-00014/00013, the October 2013 *Post Construction Custodial Care Plan*, and the NYSDEC letter dated January 7, 2020, in which the groundwater monitoring frequency was approved to be reduced from annually to biennially.

Groundwater Sampling Methodology

GEI mobilized to the Ferry Point Golf Course on April 25 – 26, 2023 to collect groundwater samples from three (3) piezometers and five (5) groundwater monitoring wells (**Figure 1**). Consistent with previous monitoring events, PZ-01 and PZ-02 were sampled in place of historic monitoring wells GMW-3 and GMW-4 due to their abandonment during golf course construction activities. Additionally, PZ-15 was sampled in place of GMW-6 due to heavily overgrown vegetation and the inability to locate the historic monitoring well. These piezometers were previously chosen and sampled by Woodard & Curran during the 2018, 2019 and 2021 sampling events after confirmation that the piezometers are screened at similar intervals and elevations that the former groundwater monitoring wells were. GEI was also unable to locate GMW-8 and GMW-9, which were previously reported to be dry and unable to be sampled by Woodard & Curran during the 2018, 2019 and 2021 sampling events.

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Prior to collecting groundwater samples at the accessible piezometers and monitoring wells, the depth to groundwater and the total well depths were measured at each of the locations using an interface probe attached to a measuring tape, accurate to 0.01 foot. A groundwater contour map is included as **Figure 2** and the groundwater elevation readings are provided on **Table 1**.

Following gauging, the groundwater monitoring wells and piezometers were sampled in accordance with the September 19, 2011 "Field Sampling Procedures for Ferry Point Site" Technical Memorandum prepared by Ecology & Environment Inc. Prior to sample collection, three (3) to five (5) well volumes were purged from the wells using a dedicated polyethylene bailer, with the purged water being stored in a 55-gallon drum staged on Site. Field parameter readings were monitored during purging activities and included measurements for temperature, pH, oxidation reduction potential (ORP), specific conductivity, dissolved oxygen (DO), and turbidity. Groundwater purge and sampling logs are included in **Appendix B**. The drum was disposed of off-site on June 27, 2023, at Dale Transfer Corporation in West Babylon, NY via AARCO Environmental Services. Drum disposal documentation is included in **Appendix C**.

Groundwater samples collected during the sampling event were properly transported to CHEMTECH, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory under chain-of-custody procedures and analyzed for the following:

- Total (unfiltered) and dissolved (lab-filtered) Target Analyte List (TAL) metals;
- Target Compound List (TCL) Semi-Volatile Organic Compounds (SVOCs);
- TCL Volatile Organic Compounds (VOCs);
- Alkalinity;
- Biological Oxygen Demand (BOD);
- Total Dissolved Solids (TDS);
- Chloride, bromide, sulfate, nitrate, nitrite;
- Color;
- Phenolics;
- Cyanide;
- Chemical Oxygen Demand (COD);
- pH;
- Hardness;
- Total Kjeldahl Nitrogen (TKN);
- Ammonia; and
- Total Organic Carbon (TOC).

In addition to the groundwater samples, quality assurance/quality control (QA/QC) samples including trip blanks, a field blank, a field duplicate, and a matrix spike/matrix spike duplicate (MS/MSD) were collected during the sampling event.

Groundwater Analytical Results

Groundwater analytical data is provided in **Table 2**, and the laboratory reports are included in **Appendix D**. Groundwater analytical results were compared to NYSDEC Technical and Operational Guidance Series (TOGS) Ambient Water Quality Standards (AWQS) for Class GA. The analytical results of groundwater samples are summarized below:

Volatile Organic Compounds (VOCs)

- Common laboratory contaminants, acetone, 2-Butanone, methylene chloride, and carbon disulfide, were detected in multiple groundwater samples (GMW-1, GMW-11, PZ-15, GMW-10, GMW-7, PZ-01, PZ-02, GMW-X [the duplicate sample of GMW-11], GMW-5, trip blank and field blank) but mostly at concentrations below their respective NYSDEC AWQS. Acetone was detected in exceedance of its AWQS in GMW-1.

- Numerous VOCs typical of landfill operations, including cis-1,2-Dichloroethene, 1,4-Dichlorobenzene, isopropylbenzene (cumene), and benzene were detected in groundwater samples collected from PZ-01, GMW-1, PZ-15, GMW-10, GMW-X (the duplicate sample of GMW-11), and at concentrations well below their respective NYSDEC AWQS.

- Trichloroethene was detected in PZ-01 and GMW-5 well below its NYSDEC AWQS. However, trichloroethene was also detected in the trip blank at similar levels to those reported at PZ-01 and GMW-5, indicating potential cross-contamination during the shipping and/or handling process. Trichloroethene has not been detected in any samples during the 2018, 2019 or 2021 sampling events.

- Chlorobenzene, a common waste byproduct from the production of chlorinated solvents and pesticides, was detected above the NYSDEC AWQS in PZ-15. Chlorobenzene was also detected in GMW-1 and GMW-10, but below the NYSDEC AWQS. This is consistent with previous sampling events.

Semi-Volatile Organic Compounds (SVOCs)

- Naphthalene, a contaminant typically found at or around landfills, was detected at GMW-11 and its duplicate, GMW-X, at levels in exceedance of

its NYSDEC AWQS. This is consistent with concentrations detected at this location during post-closure sampling events.

- Carbazole, generally released into the environment from sources such as waste incineration and/or rubber, petroleum, coal and wood combustion, was detected in GMW-11 and its duplicate, GMW-X, however, there is no NYSDEC AWQS criteria to be met for this compound.

Metals – Total (unfiltered) and Dissolved (lab-filtered)

- Total heavy metals including arsenic, cobalt, silver, and zinc were detected in various samples below their respective NYSDEC AWQS.
- Total antimony was detected above the NYSDEC AWQS in samples collected from PZ-01 and PZ-02. Antimony was also detected in GMW-11, GMW-1, GMW-10, and GMW-7 below the AWQS. Antimony was not detected in the dissolved phase.
- Barium was detected above its NYSDEC AWQS in PZ-02 (total), GMW-1 (total and dissolved) and PZ-15 (total). Barium (total and dissolved) was also detected in all other collected samples at concentrations below the AWQS.
- Total cadmium was detected above the NYSDEC AWQS in the sample collected from PZ-15. Cadmium was also detected in other locations both in the total and dissolved phase, but below its AWQS.
- The sample collected form PZ-15 had reported exceedances of total chromium above the NYSDEC AWQS. PZ-01, PZ-02, GMW-11, GMW-X (the duplicate sample of GMW-11), GMW-5, GMW-1, GMW-10, and GMW-7 all had chromium reported below its AWQS. Chromium in the dissolved phase was either non-detect or present in low levels.
- Total copper exceedances of the AWQS were detected in PZ-01 and PZ-15 samples and below the AWQS in the dissolved phase. Copper was also detected in other samples below the AWQS (total and dissolved).
- Total iron was detected above its NYSDEC AWQS in all groundwater samples. Dissolved iron was only present in PZ-01 and GMW-1 in exceedance of its respective AWQS.
- Total lead was reported above its AWQS in all samples except GMW-5, however dissolved lead was non-detect in all collected samples.
- Samples collected from PZ-01, PZ-02, GMW-11, GMW-X (the duplicate sample of GMW-11), PZ-15 and GMW-10 detected total manganese above its AWQS, but only in exceedance in the dissolved phase in PZ-01 and GMW-10.

- Total mercury was detected above its NYSDEC AWQS in PZ-02 and PZ-15, with detections below the AWQS in several other samples. Dissolved mercury was non-detect in all collected samples.
- PZ-15 reported a concentration for total nickel above the AWQS but non-detect in the dissolved phase.
- Sodium was reported above its respective NYSDEC AWQS (total and dissolved) for all groundwater samples excluding GMW-5 and GMW-10.

Phenolics

- Phenolics were detected in GMW-11 and its duplicate sample, GMW-X, however there is no NYSDEC AWQS to be met. Phenolics were non-detect in all other groundwater samples.

Cyanide

- Cyanide was detected above its NYSDEC AWQS in PZ-15 and GMW-10. In prior sampling events, cyanide concentrations were either non-detect or less than 10 ug/l in the aforementioned locations. Cyanide was also present in all other groundwater samples below the AWQS. The presence of cyanide is generally consistent with other previous post-closure monitoring events, however, exceedances of the AWQS were only reported during the 2023 sampling event.

Anions

- Bromide was detected in PZ-02, GMW-1 and PZ-15 at concentrations below its respective AWQS.
- Chloride was detected in all samples collected at concentrations below its respective AWQS.
- Nitrate was detected in PZ-01, GMW-11, PZ-15 and GMW-7 at concentrations below its respective AWQS.
- Sulfate was detected in GMW-11 and its duplicate (GMW-X) at concentrations exceeding its AWQS. Sulfate was also detected in all other samples at concentrations below the AWQS.

Conclusions

Results from the groundwater sampling event conducted on April 25-26, 2023, indicate that groundwater flow direction and elevation have remained consistent across the Site. A review of the groundwater contours included in Figure 4 from the 2021 sampling event indicate that the groundwater elevation and flow are consistent with 2023 data.

The analytical results for samples collected during the April 2023 sampling event indicate that the groundwater in certain locations beneath Site contains VOCs, SVOCs, metals, ammonia, sulfate and cyanide above NYSDEC AWQS. With the exception of cyanide, the April 2023 event detections of VOCs, SVOCs, metals, and phenolics are generally consistent in location and/or concentration with previous sampling events. GEI suggests continued monitoring of cyanide concentrations for exceedances during future sampling events.

Similar to the 2021 sampling event, chlorobenzene was detected in PZ-15 at a concentration exceeding the NYSDEC AWQS. The concentration of chlorobenzene detected at this location during the April 2023 event is overall consistent with the previous sampling events conducted in 2021 and 2019. Other VOCs such as acetone, 2-Butanone, methylene chloride, and carbon disulfide were also detected, however, these compounds are known to be laboratory contaminants.

One or more metals (total [unfiltered] and dissolved [lab-filtered]) were detected in exceedance of their respective NYSDEC AWQS in all samples collected across the Site. The reported elevated metal concentrations for the 2023 event are consistent with locations and concentrations with previous post-closure sampling events.

Certain SVOCs (including Dimethylphthalate, Di-n-butylphthalate, Acenaphthene) were detected during the 2021 sample event but are now non-detect.

The results of samples collected from PZ-01, PZ-02, and PZ-15 during the 2023 sampling event are consistent with the results reported for the 2021 and 2019 sample events, suggesting they are still acceptable sample location substitutions for missing/abandoned ground water monitoring wells GMW-3, GMW-4, and GMW-6.

Based on the results of the most recent groundwater sampling event and review of previous events, GEI recommends to NYCDPR that the following requests be made to NYSDEC for future post-closure groundwater quality monitoring events:

1. Terminate VOC monitoring from all sampling locations except PZ-15 where chlorobenzene continues to be detected at concentrations in exceedance of its respective AWQS of 5 ug/l. All other locations have either been reported as non-detect or below the AWQS during the 2019, 2021 and 2023 sampling events.

2. Terminate SVOC monitoring from all sampling locations except GMW-11 where naphthalene continues to be detected at concentrations either just below or in exceedance of its respective AWQS of 10 ug/l. All other locations have either been reported as non-detect or below the AWQS during the 2019, 2021 and 2023 sampling events.

3. Terminate total (unfiltered) metals monitoring from all sampling locations. It is suspected that the total metals concentrations are likely associated with high turbidity (as noted in the sampling logs) and particulates in the monitoring wells/piezometers and does not reflect accurate groundwater concentrations.

4. Continue groundwater analysis of dissolved (lab-filtered) metals, general chemistry, phenolics, anions, and cyanide for all sampling locations.

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Groundwater Sample Location Plan
Figure 2 – April 2023 Groundwater Contour Map

Table 1 – Summary of April 25-26, 2023, Piezometer and Groundwater Well Gauging Results
Table 2 – Summary of Groundwater Analytical Results
Appendix A – NYSDEC Letter to Reduce Groundwater Monitoring Frequency
Appendix B – Groundwater Sampling Forms
Appendix C – Drum Disposal Documentation
Appendix D – Laboratory Reports

c: K. Zias, NYCDPR
K. McCarty, GEI

Figures

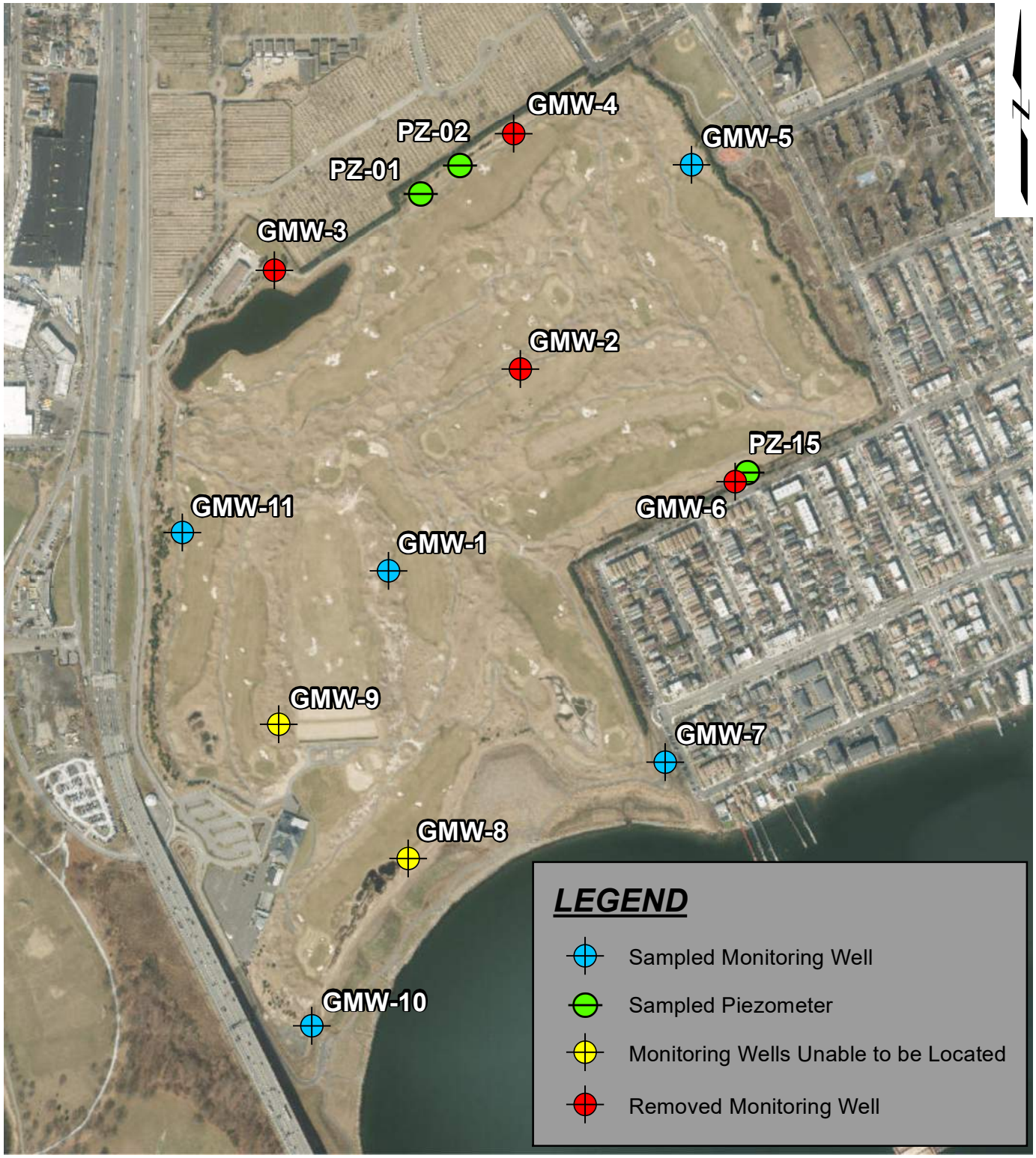

SOURCE:
1. ESRI IMAGERY BASE MAP

0 480 960
SCALE: 1 " = 656 '

Ferry Point Park Bronx, New York Groundwater Sampling	GEI Consultants	GROUNDWATER MONTIORING LOCATIONS
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	Fig. 1

B:\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\Reports\Piezometer Monitoring_GW Sampling\2023 Groundwater Sampling\Figures\Groundwater Monitoring Locations.mxd

SOURCE:
1. ESRI IMAGERY BASE MAP

0 130 260
SCALE:1" = 181'

Ferry Point Park Bronx, New York Groundwater Sampling	GEI Consultants	APRIL 2023 GROUNDWATER CONTOUR MAP
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project 2204594	Fig. 2

Tables

Table 1
Summary of April 24-26, 2023 Piezometer and Groundwater Well Gauging Results
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Monitoring Location ID	Top of Casing Elevation (feet)	Measured Depth to Water (ft bToC)	Groundwater Elevation (feet)
PZ-1	24.63	20.09	4.54
PZ-2	23.49	19.92	3.57
PZ-3	21.89	18.71	3.18
PZ-4	21.10	16.53	4.57
PZ-5	15.72	11.31	4.41
PZ-6	16.73	9.78	6.95
PZ-7	16.99	11.24	5.75
PZ-8	17.87	9.12	8.75
PZ-9	18.89	9.81	9.08
PZ-10	18.59	9.98	8.61
PZ-11	17.68	Could not locate	
PZ-12	16.96	10.21	6.75
PZ-13	9.67	2.60	7.07
PZ-14	10.82	3.41	7.41
PZ-15	9.26	3.11	6.15
PZ-16	9.80	2.55	7.25
PZ-17	9.38	2.65	6.73
PZ-18	14.42	7.59	6.83
PZ-19	16.29	9.26	7.03
PZ-20	11.68	7.12	4.56
PZ-21	14.46	11.96	2.50
PZ-22	13.58	12.45	1.13
PZ-23	16.46	12.92	3.54
PZ-25	23.54	19.87	3.67
GMW-1	39.59	26.81	12.78
GMW-2	33.22	Well Lost	
GMW-3	24.55	Well Lost	
GMW-4	20.08	Well Lost	
GMW-5	22.28	6.40	15.88
GMW-6	7.73	Well Lost	
GMW-7	12.58	8.98	3.60
GMW-8	17.33	Could not locate	
GMW-9	29.94	Could not locate	
GMW-10	13.49	9.99	3.50
GMW-11	31.98	15.36	16.62

ft bToC - feet below top of casing
Could not locate PZ-11 (within Community Park) due to overgrown vegetation

Table 2
Summary of 2023 Post-Closure Ground Water Analytical Results
Ferry Point Park Golf Course
New York City Department of Parks and Recreation

Sample ID	NY TOGS Class GA AWQS	PZ-01	PZ-02	GMW-11	GMW-X	GMW-5	TRIP BLANK	GMW-1	PZ-15	GMW-10	GMW-7	TB-2	FB
Sampling Date		4/25/2023	4/25/2023	4/25/2023	4/25/2023	4/25/2023	4/25/2023	4/26/2023	4/26/2023	4/26/2023	4/26/2023	4/26/2023	4/26/2023
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Volatile Organic Compounds (VOCs)													
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichlorotrifluoroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Acetone	50	**17.7**	**5.5**	5 U	**2.6** J	**9.9**	**2.4** J	**280**	**10.9**	**6.4**	**2.8** J	5 U	**2.4** J
Carbon Disulfide	60	1 U	1 U	**0.61** J	**0.72** J	1 U	1 U	1 U	**0.35** J	1 U	1 U	1 U	1 U
Methyl tert-butyl Ether	10	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Acetate	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.68** J
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	50	5 U	5 U	5 U	5 U	5 U	5 U	**1.9** J	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	**0.22** J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylcyclohexane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	1 U	1 U	**0.21** J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	**0.5** J	1 U	1 U	1 U	**0.77** J	**0.6** J	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-Pentanone	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
t-1,3-Dichloropropene	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	**3.3**	**12.5**	**0.37** J	1 U	1 U	1 U
Ethyl Benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	NS	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 2
Summary of 2023 Post-Closure Ground Water Analytical Results
Ferry Point Park Golf Course
New York City Department of Parks and Recreation

Sample ID	NY TOGS Class GA AWQS	PZ-01	PZ-02	GMW-11	GMW-X	GMW-5	TRIP BLANK	GMW-1	PZ-15	GMW-10	GMW-7	TB-2	FB
Sampling Date		**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**
Matrix		**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Units	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**
Bromoform	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.44** J	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	**0.88** J	**1.1**	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Semi-Volatile Organic Compounds (SVOCs)													
Benzaldehyde	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
Phenol	1	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
bis(2-Chloroethyl)ether	1	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Chlorophenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Methylphenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,2-oxybis(1-Chloropropane)	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Acetophenone	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
3+4-Methylphenols	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
n-Nitroso-di-n-propylamine	NS	2.5 U	2.5 U	2.5 U	2.5 U	2.6 U	--	2.5 U	2.5 U	2.5 U	2.5 U	--	2.5 U
Hexachloroethane	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Nitrobenzene	0.4	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Isophorone	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Nitrophenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,4-Dimethylphenol	1	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
bis(2-Chloroethoxy)methane	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,4-Dichlorophenol	1	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Naphthalene	10	5 U	5.1 U	**11.8**	**11.6**	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
4-Chloroaniline	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Hexachlorobutadiene	0.5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Caprolactam	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
4-Chloro-3-methylphenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Methylnaphthalene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Hexachlorocyclopentadiene	5	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
2,4,6-Trichlorophenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,4,5-Trichlorophenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
1,1-Biphenyl	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Chloronaphthalene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Nitroaniline	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Dimethylphthalate	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Acenaphthylene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,6-Dinitrotoluene	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
3-Nitroaniline	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Acenaphthene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U

Table 2
Summary of 2023 Post-Closure Ground Water Analytical Results
Ferry Point Park Golf Course
New York City Department of Parks and Recreation

Sample ID	NY TOGS Class GA AWQS	PZ-01	PZ-02	GMW-11	GMW-X	GMW-5	TRIP BLANK	GMW-1	PZ-15	GMW-10	GMW-7	TB-2	FB
Sampling Date		**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**
Matrix		**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Units	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**
2,4-Dinitrophenol	1	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
4-Nitrophenol	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
Dibenzofuran	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,4-Dinitrotoluene	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Diethylphthalate	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
4-Chlorophenyl-phenylether	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Fluorene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
4-Nitroaniline	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
4,6-Dinitro-2-methylphenol	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
n-Nitrosodiphenylamine	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
4-Bromophenyl-phenylether	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Hexachlorobenzene	0.04	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Atrazine	7.5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Pentachlorophenol	1	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
Phenanthrene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Anthracene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Carbazole	NS	5 U	5.1 U	**2.7** J	**3** J	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Di-n-butylphthalate	50	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Fluoranthene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Pyrene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Butylbenzylphthalate	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
3,3-Dichlorobenzidine	5	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
Benzo(a)anthracene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Chrysene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Bis(2-ethylhexyl)phthalate	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Di-n-octyl phthalate	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
Benzo(b)fluoranthene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Benzo(k)fluoranthene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Benzo(a)pyrene	ND	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Indeno(1,2,3-cd)pyrene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Dibenzo(a,h)anthracene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Benzo(g,h,i)perylene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
1,2,4,5-Tetrachlorobenzene	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
1,4-Dioxane	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,3,4,6-Tetrachlorophenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Total Metals (unfiltered)													
Aluminum	NS	**2650**	**5240**	**19300**	**17500**	**873**	--	**693**	**140000**	**561**	**2230**	--	50 U
Antimony	3	**3.47** J	**4.92** J	**2.22** J	25 U	25 U	--	**2.29** J	25 U	**2.86** J	**2.16** J	--	25 U
Arsenic	25	**6.06** J	**20.1**	**7.15** J	**7.38** J	10 U	--	10 U	**15.2**	**6.65** J	10 U	--	10 U
Barium	1000	**545**	**2380**	**254**	**234**	**36.6** J	--	**2370**	**2260**	**392**	**290**	--	50 U
Beryllium	NS	**0.32** J	**0.92** J	**1.04** J	**0.92** J	3 U	--	**0.29** J	**6.6**	**0.2** J	3 U	--	3 U
Cadmium	5	**2.96** J	**2.84** J	**0.49** J	**0.37** J	**3.51**	--	**1.11** J	**11.9**	**0.7** J	**1.47** J	--	3 U
Calcium	NS	**129000**	**101000**	**91200**	**86100**	**67900**	--	**123000**	**137000**	**153000**	**145000**	--	**50.4** J

Table 2
Summary of 2023 Post-Closure Ground Water Analytical Results
Ferry Point Park Golf Course
New York City Department of Parks and Recreation

Sample ID	NY TOGS Class GA AWQS	PZ-01	PZ-02	GMW-11	GMW-X	GMW-5	TRIP BLANK	GMW-1	PZ-15	GMW-10	GMW-7	TB-2	FB
Sampling Date		4/25/2023	4/25/2023	4/25/2023	4/25/2023	4/25/2023	4/25/2023	4/26/2023	4/26/2023	4/26/2023	4/26/2023	4/26/2023	4/26/2023
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Chromium	50	11.8	23.2	33	31.9	1.83 J	--	6.13	369	3.09 J	9.98	--	0.85 J
Cobalt	NS	3.58 J	12 J	12.8 J	12.1 J	15 U	--	1.49 J	170	1.45 J	2.59 J	--	15 U
Copper	200	351	186	92	76.1	13.3	--	34.4	293	58.8	61.7	--	10 U
Iron	300	14000	35900	26200	25300	1930	--	26700	239000	16500	4730	--	50 U
Lead	25	238	451	205	193	19.2	--	45.7	170	66	49.5	--	6 U
Magnesium	NS	13100	29600	8300	7490	5990	--	27400	69900	23700	26900	--	1000 U
Manganese	300	761	440	442	401	189	--	174	8080	894	249	--	0.88 J
Mercury	0.7	0.39	0.74	0.57	0.49	0.2 U	--	0.21	0.87	0.2 U	0.083 J	--	0.2 U
Nickel	100	21.3	43.1	41.9	39.9	4.64 J	--	4.98 J	564	12.2 J	20	--	20 U
Potassium	NS	16600	42800	33100	33200	8000	--	23900	47000	35300	20900	--	1000 U
Selenium	10	10 U	10 U	10 U	10 U	10 U	--	10 U	5.9 J	10 U	10 U	--	10 U
Silver	50	1.43 J	8.06	5.18	4.86 J	5 U	--	4.96 J	37.9	5 U	5 U	--	5 U
Sodium	20000	26500	129000	55800	56000	5930	--	60900	29800	14400	32800	--	240 J
Thallium	NS	20 U	20 U	20 U	20 U	20 U	--	20 U	20 U	20 U	20 U	--	20 U
Vanadium	NS	8.59 J	26.8	48.3	44.2	12.1 J	--	24	313	22.1	4.55 J	--	20 U
Zinc	5000	592	1070	235	234	24.4	--	98.8	519	86	185	--	2.17 J
Dissolved Metals (lab-filtered)													
Aluminum	NS	124	112	108	112	50 U	--	141	80.5	147	145	--	50 U
Antimony	3	25 U	25 U	25 U	25 U	25 U	--	25 U	25 U	25 U	25 U	--	25 U
Arsenic	25	10 U	10 U	3.95 J	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U
Barium	1000	429	570	50	42.8 J	15.7 J	--	1630	291	320	233	--	9.56 J
Beryllium	NS	3 U	3 U	3 U	3 U	3 U	--	3 U	3 U	3 U	3 U	--	3 U
Cadmium	5	3 U	3 U	3 U	3 U	3 U	--	0.11 J	3 U	0.11 J	0.23 J	--	0.28 J
Calcium	NS	117000	88200	83000	78700	13300	--	104000	61300	146000	137000	--	1900
Chromium	50	5 U	1.29 J	0.82 J	5 U	5 U	--	1.11 J	5 U	5 U	5 U	--	5 U
Cobalt	NS	0.81 J	1.63 J	15 U	15 U	15 U	--	0.47 J	2.49 J	15 U	0.84 J	--	15 U
Copper	200	25.4	28.3	10 U	10 U	10 U	--	35.7	10.4	23.9	22.3	--	10 U
Iron	300	646	92.2	50 U	50 U	50 U	--	361	62.4	27 J	24.9 J	--	32.2 J
Lead	25	6 U	6 U	6 U	6 U	6 U	--	6 U	6 U	6 U	6 U	--	6 U
Magnesium	NS	12900	23300	1920	1720	1360	--	30100	43700	23900	25800	--	41.9 J
Manganese	300	433	228	6.06 J	4.78 J	35.9	--	76.3	41.7	702	207	--	31.6
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	0.2 U	0.2 U	0.2 U	0.2 U	--	0.2 U
Nickel	100	7.25 J	9.28 J	5.56 J	6.8 J	0.93 J	--	2.49 J	14 J	8.11 J	8.17 J	--	20 U
Potassium	NS	15900	31100	31500	31300	1530	--	27200	30900	35200	20500	--	1000 U
Selenium	10	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U
Silver	50	5 U	0.67 J	0.74 J	5 U	5 U	--	0.7 J	0.81 J	5 U	5 U	--	5 U
Sodium	20000	29000	86200	58200	58100	1120	--	69800	36400	15500	32800	--	763 J
Thallium	NS	20 U	20 U	20 U	20 U	20 U	--	20 U	20 U	20 U	20 U	--	20 U
Vanadium	NS	20 U	20 U	6.86 J	7.02 J	20 U	--	20 U	20 U	20 U	20 U	--	20 U
Zinc	5000	35.4	13.3 J	3.56 J	5.72 J	1.85 J	--	10.9 J	4.22 J	17 J	70.2	--	21.4
General Chemistry (ug/L)													
Hardness, Total	NS	376000	374000	262000	246000	194000	--	420000	630000	480000	473000	--	126 U
pH	NS	6.66	6.74	9.43	9.49	7.87	--	6.85	6.71	6.72	7.02	--	5.48

Table 2

Summary of 2023 Post-Closure Ground Water Analytical Results

Ferry Point Park Golf Course

New York City Department of Parks and Recreation

Sample ID	NY TOGS Class GA AWQS	PZ-01	PZ-02	GMW-11	GMW-X	GMW-5	TRIP BLANK	GMW-1	PZ-15	GMW-10	GMW-7	TB-2	FB
Sampling Date		**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**
Matrix		**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Units	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**
Chemical Oxygen Demand (COD)	NS	**140000**	**82000**	**55000**	**64000**	**126000**	--	**160000** D	**190000** D	**114000**	**15000**	--	10000 U
Biological Oxygen Demand (BOD5)	NS	**26600**	**14300**	**6360**	**3540**	**6460**	--	**95400**	**39200**	**8500**	**10200**	--	2000 U
Total Organic Carbon (TOC)	NS	**9900**	**17900**	**11000**	**11400**	**8900**	--	**28100** D	**30400** D	**26400** D	**7900**	--	**760** J
Total Kjiedahl Nitrogen (TKN)	NS	**5300**	**52600** D	**3500**	**4100**	**6900**	--	**13000** D	**49600** D	**520**	**4700**	--	500 U
Total Dissolved Solids (TDS)	NS	**508000**	**736000**	**528000**	**538000**	**332000**	--	**666000**	**773000**	**729000**	**658000**	--	10000 U
Ammonia as N	2000	**2600** D	**33800** D	**88** J	**210**	**210**	--	**13300** D	**56800** D	**1600**	**1500**	--	100 U
Phenolics	NS	50 U	50 U	**19** J	**21** J	50 U	--	50 U	50 U	50 U	50 U	--	50 U
Anions													
Bromide	2000	2000 U	**1200** J	2000 U	**750** J	2000 U	--	**900** J	**970** J	2000 U	2000 U	--	2000 U
Chloride	250000	**33000** D	**138000** D	**33900** D	**33900** D	**5700**	--	**44400** D	**38200** D	**19400** D	**21700** D	--	600 U
Nitrite	1000	600 U	600 U	600 U	600 U	600 U	--	600 U	600 U	600 U	600 U	--	600 U
Nitrate	10000	**200** J	500 U	**250** J	**200** J	500 U	--	500 U	**190** J	500 U	**1700**	--	500 U
Sulfate	250000	**34900**	**9400**	**289000** D	**292000** D	**2900** J	--	**1500** J	**3000**	**53000** D	**68000** D	--	3000 U
Nitrate+Nitrite	10000	**200** J	1100 U	**250** J	**200** J	1100 U	--	1100 U	**190** J	1100 U	**1700**	--	1100 U
Cyanide													
Cyanide	200	**27**	**140**	**42**	**4.7** J	**2.7** J	--	**35**	**340**	**220**	**10**	--	**1.4** J

Notes

-- - Not analyzed

N (Organics) - Presumptive Evidence of a Compound

N (Inorganics) - The matrix spike recovery was outside control limits

NS - No Standard

Bold - Indicates a detected concentration

Bold and shaded - Indicates an exceedance of TOGS GA Ambient Water Quality Standards

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

Q - Indicates LCS control criteria did not meet requirements.

Appendix A

NYSDEC Letter to Reduce Groundwater Monitoring Frequency

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4996 I F: (718) 482-6391
www.dec.ny.gov

January 7, 2020

Marty Rowland, Ph.D., P.E.
Senior Project Manager for Environmental Remediation
New York City Department of Parks and Recreation
Central Project Division, Environmental Unit
Olmstead Center
Flushing Meadows
Corona Park
Flushing, NY 11368

Re: Ferry Point Park Golf Course
Permit No. 2-6006-00014/00013
Post-Closure Groundwater Monitoring
Request for Cessation for Groundwater Monitoring

Dear Mr. Rowland,

New York State Department of Environmental Conservation (Department) staff have reviewed your November 20, 2019 request to terminate the Ferry Point Golf Course post-closure groundwater monitoring program This request is based on the relatively consistent ground water elevation and flow direction, the laboratory results from ground water samples collected during both pre-closure and post closure monitoring over an eight-year period of monitoring events, and the lack of any potential direct receptors or routes of exposure associated with ground water at Ferry Point Park.

After careful review of the post-closure groundwater monitoring program, the laboratory results from ground water samples collected during both pre-closure and post closure monitoring over an eight-year period of monitoring events and specific circumstances and history of this site, the Department cannot grant this request but rather the following frequency reduction to the Ferry Point Golf Course groundwater monitoring program can be implemented:

1) Starting immediately, the Ferry Point Golf Course groundwater monitoring frequency can be reduced from annual to once every two years through 2030.

2) After 2030, the Ferry Point Golf Course groundwater monitoring frequency can be modified from once every two years to once every five years indefinitely as custodial care consistent with Part 363-9.6(b).

If you have any questions you may contact me at 718-482-4996.

Sincerely,

Kenneth B. Brezner

Kenneth B. Brezner, P.E.
Regional Material Management Engineer

ec: J. O'Connell/W. Frank, DEC R2, DMM
S. Southwell, DEC R2, DOW
K. Zias, NYCDPR
S. Laura, Woodard and Curran

FPP_Post-Closure_Groundwater_Monitoring_request_for_Cessation.2020-01-07.Letter.docx

Appendix B

Groundwater Sampling Forms

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

Low-Flow Groundwater Sampling Form

Project number and name: Ferry Point | Sampling personnel: S.M. & E.S. (Preffered) | Sample date: 4/25/23 | Well ID: PZ-01

Well location description:

Well Construction

Well diameter: 2"

Well measurement point:

Roadbox condition:

Well screen interval:

Well depth: 22.54

Sampling Information

Initial depth to water: 21.12 Time: 08:03

Sample intake depth: 22

Pump type and ID: Bailer

Stabilized flow rate:

Stabilized flow rate = flow rate with no further drawdown

vol = 0.22 gal
0.0 ppm outer
0.0 ppm inner

Samples Collected

VOCs 8260 SIM	X
SVOCs 8270 SIM	X
Metals	X
M/E/E	
Nitrate/Sulfate	X
PCBs	
Other	X

WYS AWQS

Field values at time of sample collection:

Time:	08:49		Depth to water: 21.12
Sp.Cond.	0.633	uS/cm	
DO	18.2	mg/L	
ORP	122	mV	
pH	7.26	s.u.	
Temp.	17.41	°C	
Turb.	193	NTU	

Cumulative Time (min.)	Volume (L) gal	Water depth (ft)	Temp. (°C)	Sp.Cond. (uS/cm)	D.O. ~~(mg/L)~~ %	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	50 to 5000	0 to 4	5 to 7	-100 to +500	aim for <10
8:19 0	0.22	21.12	15.85	0.668	35.3	7.63	186	388
8:21 2	0.22	21.13	16.30	0.729	89.7	6.45	162	1000+
8:29 10	0.22	21.13	16.40	0.725	97.3	6.63	146	1000+
8:31 12	0.22	21.13	16.82	0.797	26.0	6.53	134	342
8:40 21	0.22	21.12	17.36	0.810	20.7	6.66	139	350

Sample Information:

Sample ID: PZ-01

Sample Date&Time: 4/25/23

Color: slightly murky (brown/gray sed)

Turbidity: 193

Field Filtered YES / NO (NO circled) Analyses:

Filter type:

Odor/Sheen/NAPL: N/A

Duplicate Collected YES / NO (NO circled)

If yes, duplicate ID:

Purge water disposal? to ground drummed (drummed circled) other: Treatment System

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:

Sp.Cond. +/- 10%
DO +/- 10%
ORP +/- 10 mV
pH +/- 10%
Temp. +/- 10%
Turb. <10 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Notes:

Low-Flow Groundwater Sampling Form

Project number and name: Ferry Point | Sampling personnel: S.M & F.S (proffered) | Sample date: 4/25/23 | Well ID: PZ-02

Well location description:

Well Construction

Well diameter: 2"

Well measurement point:

Roadbox condition:

Well screen interval:

Well depth: 22.75

Sampling Information

Initial depth to water: 19.93 Time: 9:30

Sample intake depth:

Pump type and ID: bailer

Stabilized flow rate:

Stabilized flow rate = flow rate with no further drawdown

vol = 0.46 gal
outer cap 0.0 ppm
inner cap 0.0 ppm

Samples Collected

VOCs 8260 SIM	X
SVOCs 8270 SIM	X
Metals	X
M/E/E	
Nitrate/Sulfate	X
PCBs	
Other	X

NYS AWQS

Field values at time of sample collection:

Time:	09:53	
Sp.Cond.	1.12	uS/cm
DO	22.6	mg/L
ORP	49	mV
pH	6.52	s.u.
Temp.	18.25	°C
Turb.	348	NTU

Depth to water: 19.96

Cumulative Time (min.)	Volume (L)	Water depth (ft)	Temp. (°C)	Sp.Cond. (uS/cm)	D.O. (mg/L)	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values		19.93	5 to 15	50 to 5000	0 to 4	5 to 7	-100 to +500	aim for <10
9:36 0	0.5	210	19.05	0.936	105.6	6.79	17	17.5
9:38 2	0.5	19.96	18.71	1.05	42.3	6.53	19	182
9:40 4	0.5	19.96	18.43	1.05	20.1	6.50	21	452
9:43 7	0.5	19.94	18.56	1.05	20.5	6.50	39	687
9:46 10	0.5	19.95	18.38	1.33	9.02	6.54	45	225

Sample Information:

Sample ID: PZ-02

Sample Date&Time: 4/25/23 09:53

Color: murky (brown, gray)

Turbidity: 348

Field Filtered YES / NO (NO circled) Analyses:

Filter type:

Odor/Sheen/NAPL: N/A

Duplicate Collected YES / NO (NO circled)

If yes, duplicate ID:

Purge water disposal? to ground drummed (drummed circled) other: Treatment System

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:

Sp.Cond. +/- 10%
DO +/- 10%
ORP +/- 10 mV
pH +/- 10%
Temp. +/- 10%
Turb. <10 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Notes:

Low-Flow Groundwater Sampling Form

Project number and name: Ferry Point | Sampling personnel: S.M. & E.S. (Prefiltered) | Sample date: 4/26/23 | Well ID: PZ-15

Well location description:

Well Construction

Well diameter: 2"

Well measurement point:

Roadbox condition:

Well screen interval:

Well depth: 10.20

Sampling Information

Initial depth to water: 2.21 Time: 9:27

Sample intake depth:

Pump type and ID: Bailer

Stabilized flow rate:

Stabilized flow rate = flow rate with no further drawdown

VOl. = 1.30 gal
inner cap - 0.0 ppm
outer cap - 0.0 ppm

Samples Collected

VOCs 8260 SIM	X
SVOCs 8270 SIM	X
Metals	X
M/E/E	
Nitrate/Sulfate	X
PCBs	
Other NYS AWQS	X

Field values at time of sample collection:

Time:	9:54	
Sp.Cond.	2.19	uS/cm
DO	27.9	~~mg/L~~ %
ORP	37	mV
pH	6.71	s.u.
Temp.	11.39	°C
Turb.	1000+	NTU

Depth to water:

Cumulative Time (min.)	Volume (L) gal	Water depth (ft)	Temp. (°C)	Sp.Cond. (uS/cm)	D.O. (mg/L) %	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	50 to 5000	0 to 4	5 to 7	-100 to +500	aim for <10
9:34 0	1.3	6.18	12.96	2.13	19.7	6.64	51	112
9:39 4	1.3	7.49	12.06	2.20	21.6	6.81	37	88.7
9:45 11	1.3	8.52	11.48	2.22	100.0	6.81	41	1000+

Notes:

Sample Information:

Sample ID: PZ-15

Sample Date&Time: 4/26/23

Color: murky (brown-gray)

Turbidity: 1000+

Field Filtered YES / NO (NO circled) Analyses:

Filter type:

Odor/Sheen/NAPL

Duplicate Collected YES / NO (NO circled)

If yes, duplicate ID:

Purge water disposal? to ground drummed (drummed circled) other: Treatment System

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:
Sp.Cond. +/- 10%
DO +/- 10%
ORP +/- 10 mV
pH +/- 10%
Temp. +/- 10%
Turb. <10 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Low-Flow Groundwater Sampling Form

Project number and name: Ferry Point | Sampling personnel: S.M. + F.S. (Preffered) | Sample date: 4/26/23 | Well ID: GMW-1

Well location description:

Well Construction

Well diameter: 2"

Well measurement point:

Roadbox condition:

Well screen interval:

Well depth: 29.30

Sampling Information

Initial depth to water: 26.81 Time: 8:05

Sample intake depth:

Pump type and ID: Bailer

Stabilized flow rate:

Stabilized flow rate = flow rate with no further drawdown

vol - 0.4 gal
inner cap - 0.0ppm
outer cap - 0.7ppm

Samples Collected

VOCs 8260 SIM	X
SVOCs 8270 SIM	X
Metals	X
M/E/E	
Nitrate/Sulfate	X
PCBs	
Other	X

1/4" AMBS

Field values at time of sample collection:

Time:	8:36		Depth to water: 26.65
Sp.Cond.	1.58	uS/cm	
DO	23.7	% ~~mg/L~~	
ORP	15	mV	
pH	6.98	s.u.	
Temp.	14.02	°C	
Turb.	83	NTU	

Cumulative Time (min.)	Volume (L) gal	Water depth (ft)	Temp. (°C)	Sp.Cond. (uS/cm)	D.O. (mg/L) %	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	50 to 5000	0 to 4	5 to 7	-100 to +500	aim for <10
8:14 0	0.5	26.70	13.97	1.43	39.7	6.93	8	38.8
8:19 5	0.5	26.65	13.66	1.56	71.9	6.89	23	69.0
8:23 9	0.5	26.66	13.79	1.56	25.8	6.90	22	108
8:29 15	0.5	26.65	13.86	1.57	26.7	6.90	22	78.7

Notes: rusty casing. clumpy product

Sample Information:

Sample ID: GMW-1

Sample Date&Time: 4/26/23

Color: murky (brown-gray)

Turbidity: 83

Field Filtered YES / NO (NO circled) Analyses:

Filter type:

Odor/Sheen/NAPL: floating - some rusty product (?)

Duplicate Collected YES / NO (NO circled)

If yes, duplicate ID:

Purge water disposal? to ground drummed (drummed circled) other: Treatment System

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:
Sp.Cond. +/- 10%
DO +/- 10%
ORP +/- 10 mV
pH +/- 10%
Temp. +/- 10%
Turb. <10 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Low-Flow Groundwater Sampling Form

Project number and name: Fury Point | Sampling personnel: S.M. & E.S. (Preffered) | Sample date: 4/25/23 | Well ID: GMW-5

Well location description:

Well Construction

Well diameter: 2"

Well measurement point:

Roadbox condition:

Well screen interval:

Well depth: 14.99

Sampling Information

Initial depth to water: 6.40' Time: 1:25

Sample intake depth:

Pump type and ID: bailer

Stabilized flow rate:

Stabilized flow rate = flow rate with no further drawdown

vol - 1.4 gallons

outer cap - 0.0 ppm

inner cap - 0.0 ppm

Samples Collected

VOCs 8260 SIM	X
SVOCs 8270 SIM	X
Metals	X
M/E/E	
Nitrate/Sulfate	X
PCBs	
Other	X

NY AWQS

Field values at time of sample collection:

Time:	1:47		Depth to water: 7.00
Sp.Cond.	0.446	uS/cm	
DO	29.4	mg/L	
ORP	-19	mV	
pH	8.18	s.u.	
Temp.	11.33	°C	
Turb.	10.3	NTU	

Cumulative Time (min.)	Volume ~~(L)~~ gal	Water depth (ft)	Temp. (°C)	Sp.Cond. (uS/cm)	D.O. ~~(mg/L)~~ %	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	50 to 5000	0 to 4	5 to 7	-100 to +500	aim for <10
1:27 0	1.50	6.90	14.36	0.418	20.5	8.26	-34	18.3
1:32 5	1.50	7.26	12.94	0.449	44.1	8.31	-30	27.6
1:37 12	1.50	7.44	12.37	0.453	10.8	8.09	-27	10.2
1:42 16	1.50	7.40	11.72	0.441	32.5	8.14	-15	10.5

Sample Information:

Sample ID: GMW-5

Sample Date&Time: 4/25/23

Color: murky (gray, brown)

Turbidity: 10.3

Field Filtered YES / NO (NO circled) Analyses:

Filter type:

Odor/Sheen/NAPL: N/A

Duplicate Collected YES / NO (NO circled)

If yes, duplicate ID:

Purge water disposal? to ground drummed (drummed circled) other: Treatment System

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:

Sp.Cond. +/- 10%
DO +/- 10%
ORP +/- 10 mV
pH +/- 10%
Temp. +/- 10%
Turb. <10 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Notes: Well casing filled w/ water ~1" below top of casing

Low-Flow Groundwater Sampling Form

Project number and name: Ferry Point

Sampling personnel: S.M. & F.S. (Trefferred)

Sample date: 4/26/23

Well ID: GMW-7

Well location description:

Well Construction

Well diameter: 2"

Well measurement point:

Roadbox condition:

Well screen interval:

Well depth: 14.61

Sampling Information

Initial depth to water: 8.98 Time: 13:02

Sample intake depth:

Pump type and ID: Bailer

Stabilized flow rate:

Stabilized flow rate = flow rate with no further drawdown

Vol = 0.92 gal
inner PID = 0.0 ppm
outer PID = 0.0 ppm

Samples Collected

VOCs 8260 SIM	X
SVOCs 8270 SIM	X
Metals	X
M/E/E	
Nitrate/Sulfate	X
PCBs	
Other NYS AWQS	X

Field values at time of sample collection:

Time:	13:21	
Sp.Cond.	1.18	uS/cm
DO	18.1	% ~~mg/L~~
ORP	208	mV
pH	7.14	s.u.
Temp.	12.02	°C
Turb.	10.0	NTU

Depth to water: 9.00

Cumulative Time (min.)	Volume (L) gal	Water depth (ft)	Temp. (°C)	Sp.Cond. (uS/cm)	D.O. % (mg/L)	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	50 to 5000	0 to 4	5 to 7	-100 to +500	aim for <10
13:08 0	1.0	8.98	13.63	1.18	13.6	7.30	208	48.1
13:11 3	1.0	8.99	12.45	1.17	13.7	7.29	216	37.0
13:14 6	1.0	9.00	12.24	1.17	14.3	7.11	217	15.6

Notes: Submerged - bail out to reach well plug

Sample Information:

Sample ID: GMW-7

Sample Date&Time: 4/26/23

Color: slightly cloudy

Turbidity: 10.0

Field Filtered YES / NO (NO circled) Analyses:

Filter type:

Odor/Sheen/NAPL:

Duplicate Collected YES / NO (NO circled)

If yes, duplicate ID:

Purge water disposal? to ground drummed (drummed circled) other: Treatment System

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:

Sp.Cond. +/- 10%
DO +/- 10%
ORP +/- 10 mV
pH +/- 10%
Temp. +/- 10%
Turb. <10 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Low-Flow Groundwater Sampling Form

Project number and name: Ferry Point

Sampling personnel: S.M. & F.S. (Prefferred)

Sample date: 4/26/23

Well ID: GMW-10

Well location description:

Well Construction

Well diameter: 2"

Well measurement point:

Roadbox condition:

Well screen interval:

Well depth: 17.42

Sampling Information

Initial depth to water: 9.99 Time: 10:55

Sample intake depth:

Pump type and ID: Bailer

Stabilized flow rate:

Stabilized flow rate = flow rate with no further drawdown

vol. = 1.21 gal
inner cap - 0.0 ppm
outer cap - 0.0 ppm

Samples Collected

VOCs 8260 SIM	X
SVOCs 8270 SIM	X
Metals	X
M/E/E	
Nitrate/Sulfate	X
PCBs	
Other	X

NVS AWQS

Field values at time of sample collection:

Time:	11:16		Depth to water: 10.21
Sp.Cond.	1.12	uS/cm	
DO	11.1	mg/L	
ORP	51	mV	
pH	6.80	s.u.	
Temp.	12.64	°C	
Turb.	111	NTU	

Cumulative Time (min.)	Volume ~~(L)~~ gal	Water depth (ft)	Temp. (°C)	Sp.Cond. (uS/cm)	D.O. ~~(mg/L)~~ %	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	50 to 5000	0 to 4	5 to 7	-100 to +500	aim for <10
11:00 0	1.25	10.16	12.77	1.11	22.5	7.14	64	186
11:04 4	1.25	10.20	12.59	1.19	15.6	6.85	55	64.2
11:08 8	1.25	10.23	12.42	1.13	21.7	6.95	43	107

Sample Information:

Sample ID: GMW-10

Sample Date&Time: 4/26/23

Color: murky (brown-gray)

Turbidity: 111

Field Filtered YES / NO (NO circled)

Analyses:

Filter type:

Odor/Sheen/NAPL:

Duplicate Collected YES / NO (YES circled)

If yes, duplicate ID: MS + MSD

Purge water disposal? to ground drummed other: Treatment System

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:
Sp.Cond. +/- 10%
DO +/- 10%
ORP +/- 10 mV
pH +/- 10%
Temp. +/- 10%
Turb. <10 NTU

Notes:

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

8

Low-Flow Groundwater Sampling Form

Project number and name: Ferry Point

Sampling personnel: S.M. + E.S. (Preferred)

Sample date: 4/25/23

Well ID: GMW-11

Well location description:

Well Construction

Well diameter: 2"

Well measurement point:

Roadbox condition:

Well screen interval:

Well depth: 23.67

Sampling Information

Initial depth to water: 15.36 Time: 10:53

Sample intake depth:

Pump type and ID: Bailer

Stabilized flow rate:

Stabilized flow rate = flow rate with no further drawdown

vol. = 1.36 gal
outer cap - 0.0 ppm
inner cap - 0.0 ppm

Samples Collected

VOCs 8260 SIM	X
SVOCs 8270 SIM	X
Metals	X
M/E/E	
Nitrate/Sulfate	X
PCBs	
Other	X

1/4 AWQS

Field values at time of sample collection:

Time:	11:52	
Sp.Cond.	0.833	uS/cm
DO	55.5	~~mg/L~~ %
ORP	-98	mV
pH	9.95	s.u.
Temp.	15.29	°C
Turb.	582	NTU

Depth to water: 15.46

Cumulative Time (min.)	Volume (L) gal	Water depth (ft)	Temp. (°C)	Sp.Cond. (uS/cm)	D.O. (mg/L) %	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	50 to 5000	0 to 4	5 to 7	-100 to +500	aim for <10
11:00 0	1.50	15.39	15.97	0.825	101.6	9.91	-114	35.2
11:09 9	1.50	15.29	15.77	0.816	31.8	9.93	-95	421
11:22 22	1.50	15.42	15.53	0.829	112.8	10.10	-106	293
11:32 32	1.50	15.45	15.34	0.838	19.7	10.07	-109	795
11:47 47	1.50	15.45	16.40	0.828	19.4	10.04	-107	516

Notes:

Sample Information:

Sample ID: GMW-11

Sample Date&Time: 4/25/23 11:52

Color: murky (brown-gray)

Turbidity: 582

Field Filtered YES / NO (NO circled)

Analyses:

Filter type:

Odor/Sheen/NAPL: sulfur-like odor

Duplicate Collected YES / NO (YES circled)

If yes, duplicate ID: GMW-X

Purge water disposal? to ground drummed (drummed circled) other: Treatment System

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume =
3.14 x (r)^2 x 7.48 gal/ft
where r = 1/2 diameter in ft

Stabilization Criteria:
Sp.Cond. +/- 10%
DO +/- 10%
ORP +/- 10 mV
pH +/- 10%
Temp. +/- 10%
Turb. <10 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Appendix C

Drum Disposal Documentation

NON-HAZARDOUS WASTE PROFILE

Job Number:

Dale Transfer Corporation
129 Dale Street, West Babylon, NY 11704
Ph: 631-393-2882 Fx: 631-393-2884

	Approved by: Date:
	Profile Number:
GENERATOR:	**BILL TO/CLIENT:**
Name: NYC Department of Parks and Recreation	Name: AARCO Environmental Services orp.
Site Address: 500 Hutchinson River Parkway	Address: 50 Gear Avenue
City/State/Zip: Bronx, NY 10465	City/State/Zip: Lindenhurst, NY 11757
Technical Contact: Stacey Ng (GEI Consultants)	Email: Splofker@aarcoenvironmental.com
Technical Ph: (347) 514-3861	Contact: Steve Plofker Ph: 631-586-5900
TRANSPORTER:	
Name: AARCO Environmental Services Corp	Contact: Steve Plofker
Address: 50 Gear Avenue, Lindenhurst, NY 11757	Phone: 631-586-5900
Email: splofker@aarcoenvironmental.com	Fax: 631-586-5910

WASTE DESCRIPTION:

Purged groundwater from wells installed on current golf course (previously landfill)

MANUFACTURING/PROCESS DESCRIPTION:

TYPE OF CONTAMINATION:

Gasoline	☐	Diesel	☐	Fuel Oil (2,4,6)	☐	Hydraulic Oil	☐	Other:	Landfill (low level
Kerosene	☐	Jet Fuel	☐	Motor Oil	☐	Used Oil	☐		VOC,SVOC, metals)

CONTAMINATION SOURCE:

UST ☐ Historic ☐ Other: Former landfill
AST ☐ Spill ☐

SITE USAGE HISTORY:

Industrial ☐ Residential ☐
Commercial ☐ Other: Former landfill, current golf cc

PHYSICAL PROPERTIES:

COLOR: cloudy, brown-grey
ODOR: ☐ None ☑ Mild ☐ Strong
Describe:

REACTIVITY:

Total Cyanides		☑ None
Amenable Cyanides		☑ None
Reactive Sulfidies		☑ None
Shock Sensative	☐ Yes	☑ No
Generates Toxic fumes when mixed w/water, acid, or base	☐ Yes	☑ No

PHYSICAL STATE:

Liquid	☑	Multi-layerd	☐
Semi-Solid	☐	Bi-layered	☐
Solid	☐	Singe Phase	☐
Powder	☐	Gas/Aerosol	☐

FLASH POINT:

< 100	☐
≥ 100 ≤ 140	☐
> 140 ≤ 200	☐
> 200	☐

CORROSITIVITY:

≤ 2.0	☐
2.01 - 5.0	☐
5.01 - 9.0	☑
9.01 - 12.49	☑
≥ 12.50	☐

SHIPPING INFORMATION:

Vactor ☐ Vac Truck ☐ Drums ☑
Other:
Anticipated Volume (Gallons/Tons) 55 gallons
One Time ☑ Week ☐ Month ☐
Quarter ☐ Year ☐ Other:

CHEMICAL COMPOSITION/CHARACTERISTICS:

Groundwater	% 100
	%
	%

REGULATORY INFORMATION:

Proper Shipping Name: Non-hazardous well purge water

Analytical Attached: Yes ☑ No ☐ Lab: Chemtec

Disposition: Landfill ☐ Recycling ☑ Other: Disposal Facility

Generator's Certification: I certify the material described above on this profile are Non-Hazardous therefore not subject to federal regulations for reporting disposal of hazardous waste.

X Kay Zias
Authorized Signature

X Kay Zias
Print Name

X Director, ERU, NYCDPR
Title

X 6/26/2023
Date

Table 2

Summary of 2023 Post-Closure Ground Water Analytical Results

Ferry Point Park Golf Course

New York City Department of Parks and Recreation

Sample ID	NY TOGS Class GA AWQS	PZ-01	PZ-02	GMW-11	GMW-X	GMW-5	TRIP BLANK	GMW-1	PZ-15	GMW-10	GMW-7	TB-2	FB
Sampling Date		**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**
Matrix		**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Units	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**
Volatile Organic Compounds (VOCs)													
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichlorotrifluoroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Acetone	NS	**17.7**	**5.5**	5 U	**2.6** J	**9.9**	**2.4** J	**280**	**10.9**	**6.4**	**2.8** J	5 U	**2.4** J
Carbon Disulfide	60	1 U	1 U	**0.61** J	**0.72** J	1 U	1 U	1 U	**0.35** J	1 U	1 U	1 U	1 U
Methyl tert-butyl Ether	10	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Acetate	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.68** J
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	NS	5 U	5 U	5 U	5 U	5 U	5 U	**1.9** J	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	**0.22** J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylcyclohexane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	1 U	1 U	**0.21** J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	**0.5** J	1 U	1 U	1 U	**0.77** J	**0.6** J	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-Pentanone	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
t-1,3-Dichloropropene	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	**3.3**	**12.5**	**0.37** J	1 U	1 U	1 U
Ethyl Benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	NS	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 2

Summary of 2023 Post-Closure Ground Water Analytical Results

Ferry Point Park Golf Course

New York City Department of Parks and Recreation

Sample ID	NY TOGS Class GA AWQS	PZ-01	PZ-02	GMW-11	GMW-X	GMW-5	TRIP BLANK	GMW-1	PZ-15	GMW-10	GMW-7	TB-2	FB
Sampling Date		**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**
Matrix		**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Units	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**
Bromoform	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.44** J	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	**0.88** J	**1.1**	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Semi-Volatile Organic Compounds (SVOCs)													
Benzaldehyde	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
Phenol	1	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
bis(2-Chloroethyl)ether	1	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Chlorophenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Methylphenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,2-oxybis(1-Chloropropane)	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Acetophenone	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
3+4-Methylphenols	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
n-Nitroso-di-n-propylamine	NS	2.5 U	2.5 U	2.5 U	2.5 U	2.6 U	--	2.5 U	2.5 U	2.5 U	2.5 U	--	2.5 U
Hexachloroethane	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Nitrobenzene	0.4	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Isophorone	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Nitrophenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,4-Dimethylphenol	1	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
bis(2-Chloroethoxy)methane	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,4-Dichlorophenol	1	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Naphthalene	10	5 U	5.1 U	**11.8**	**11.6**	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
4-Chloroaniline	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Hexachlorobutadiene	0.5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Caprolactam	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
4-Chloro-3-methylphenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Methylnaphthalene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Hexachlorocyclopentadiene	5	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
2,4,6-Trichlorophenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,4,5-Trichlorophenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
1,1-Biphenyl	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Chloronaphthalene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Nitroaniline	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Dimethylphthalate	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Acenaphthylene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,6-Dinitrotoluene	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
3-Nitroaniline	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Acenaphthene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U

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Ferry Point Park Golf Course

New York City Department of Parks and Recreation

Sample ID	NY TOGS Class GA AWQS	PZ-01	PZ-02	GMW-11	GMW-X	GMW-5	TRIP BLANK	GMW-1	PZ-15	GMW-10	GMW-7	TB-2	FB
Sampling Date		**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**
Matrix		**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Units	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**
2,4-Dinitrophenol	1	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
4-Nitrophenol	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
Dibenzofuran	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,4-Dinitrotoluene	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Diethylphthalate	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
4-Chlorophenyl-phenylether	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Fluorene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
4-Nitroaniline	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
4,6-Dinitro-2-methylphenol	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
n-Nitrosodiphenylamine	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
4-Bromophenyl-phenylether	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Hexachlorobenzene	0.04	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Atrazine	7.5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Pentachlorophenol	1	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
Phenanthrene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Anthracene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Carbazole	NS	5 U	5.1 U	**2.7** J	**3** J	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Di-n-butylphthalate	50	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Fluoranthene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Pyrene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Butylbenzylphthalate	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
3,3-Dichlorobenzidine	5	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
Benzo(a)anthracene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Chrysene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Bis(2-ethylhexyl)phthalate	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Di-n-octyl phthalate	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
Benzo(b)fluoranthene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Benzo(k)fluoranthene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Benzo(a)pyrene	ND	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Indeno(1,2,3-cd)pyrene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Dibenzo(a,h)anthracene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Benzo(g,h,i)perylene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
1,2,4,5-Tetrachlorobenzene	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
1,4-Dioxane	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,3,4,6-Tetrachlorophenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Metals													
Aluminum	NS	**2650**	**5240**	**19300**	**17500**	**873**	--	**693**	**140000**	**561**	**2230**	--	50 U
Antimony	3	**3.47** J	**4.92** J	**2.22** J	25 U	25 U	--	**2.29** J	25 U	**2.86** J	**2.16** J	--	25 U
Arsenic	25	**6.06** J	**20.1**	**7.15** J	**7.38** J	10 U	--	10 U	**15.2**	**6.65** J	10 U	--	10 U
Barium	1000	**545**	**2380**	**254**	**234**	**36.6** J	--	**2370**	**2260**	**392**	**290**	--	50 U
Beryllium	NS	**0.32** J	**0.92** J	**1.04** J	**0.92** J	3 U	--	**0.29** J	**6.6**	**0.2** J	3 U	--	3 U
Cadmium	5	**2.96** J	**2.84** J	**0.49** J	**0.37** J	**3.51**	--	**1.11** J	**11.9**	**0.7** J	**1.47** J	--	3 U
Calcium	NS	**129000**	**101000**	**91200**	**86100**	**67900**	--	**123000**	**137000**	**153000**	**145000**	--	**50.4** J

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Matrix		**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Units	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**
Chromium	50	**11.8**	**23.2**	**33**	**31.9**	**1.83** J	--	**6.13**	**369**	**3.09** J	**9.98**	--	**0.85** J
Cobalt	NS	**3.58** J	**12** J	**12.8** J	**12.1** J	15 U	--	**1.49** J	**170**	**1.45** J	**2.59** J	--	15 U
Copper	200	**351**	**186**	**92**	**76.1**	**13.3**	--	**34.4**	**293**	**58.8**	**61.7**	--	10 U
Iron	300	**14000**	**35900**	**26200**	**25300**	**1930**	--	**26700**	**239000**	**16500**	**4730**	--	50 U
Lead	25	**238**	**451**	**205**	**193**	**19.2**	--	**45.7**	**170**	**66**	**49.5**	--	6 U
Magnesium	NS	**13100**	**29600**	**8300**	**7490**	**5990**	--	**27400**	**69900**	**23700**	**26900**	--	1000 U
Manganese	300	**761**	**440**	**442**	**401**	**189**	--	**174**	**8080**	**894**	**249**	--	**0.88** J
Mercury	0.7	**0.39**	**0.74**	**0.57**	**0.49**	0.2 U	--	**0.21**	**0.87**	0.2 U	**0.083** J	--	0.2 U
Nickel	100	**21.3**	**43.1**	**41.9**	**39.9**	**4.64** J	--	**4.98** J	**564**	**12.2** J	**20**	--	20 U
Potassium	NS	**16600**	**42800**	**33100**	**33200**	**8000**	--	**23900**	**47000**	**35300**	**20900**	--	1000 U
Selenium	10	10 U	10 U	10 U	10 U	10 U	--	10 U	**5.9** J	10 U	10 U	--	10 U
Silver	50	**1.43** J	**8.06**	**5.18**	**4.86** J	5 U	--	**4.96** J	**37.9**	5 U	5 U	--	5 U
Sodium	20000	**26500**	**129000**	**55800**	**56000**	**5930**	--	**60900**	**29800**	**14400**	**32800**	--	**240** J
Thallium	NS	20 U	20 U	20 U	20 U	20 U	--	20 U	20 U	20 U	20 U	--	20 U
Vanadium	NS	**8.59** J	**26.8**	**48.3**	**44.2**	**12.1** J	--	**24**	**313**	**22.1**	**4.55** J	--	20 U
Zinc	NS	**592**	**1070**	**235**	**234**	**24.4**	--	**98.8**	**519**	**86**	**185**	--	**2.17** J
Dissolved Metals													
Aluminum	NS	**124**	**112**	**108**	**112**	50 U	--	**141**	**80.5**	**147**	**145**	--	50 U
Antimony	3	25 U	25 U	25 U	25 U	25 U	--	25 U	25 U	25 U	25 U	--	25 U
Arsenic	25	10 U	10 U	**3.95** J	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U
Barium	1000	**429**	**570**	**50**	**42.8** J	**15.7** J	--	**1630**	**291**	**320**	**233**	--	**9.56** J
Beryllium	NS	3 U	3 U	3 U	3 U	3 U	--	3 U	3 U	3 U	3 U	--	3 U
Cadmium	5	3 U	3 U	3 U	3 U	3 U	--	**0.11** J	3 U	**0.11** J	**0.23** J	--	**0.28** J
Calcium	NS	**117000**	**88200**	**83000**	**78700**	**13300**	--	**104000**	**61300**	**146000**	**137000**	--	**1900**
Chromium	50	5 U	**1.29** J	**0.82** J	5 U	5 U	--	**1.11** J	5 U	5 U	5 U	--	5 U
Cobalt	NS	**0.81** J	**1.63** J	15 U	15 U	15 U	--	**0.47** J	**2.49** J	15 U	**0.84** J	--	15 U
Copper	200	**25.4**	**28.3**	10 U	10 U	10 U	--	**35.7**	**10.4**	**23.9**	**22.3**	--	10 U
Iron	300	**646**	**92.2**	50 U	50 U	50 U	--	**361**	**62.4**	**27** J	**24.9** J	--	**32.2** J
Lead	25	6 U	6 U	6 U	6 U	6 U	--	6 U	6 U	6 U	6 U	--	6 U
Magnesium	NS	**12900**	**23300**	**1920**	**1720**	**1360**	--	**30100**	**43700**	**23900**	**25800**	--	**41.9** J
Manganese	300	**433**	**228**	**6.06** J	**4.78** J	**35.9**	--	**76.3**	**41.7**	**702**	**207**	--	**31.6**
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	0.2 U	0.2 U	0.2 U	0.2 U	--	0.2 U
Nickel	100	**7.25** J	**9.28** J	**5.56** J	**6.8** J	**0.93** J	--	**2.49** J	**14** J	**8.11** J	**8.17** J	--	20 U
Potassium	NS	**15900**	**31100**	**31500**	**31300**	**1530**	--	**27200**	**30900**	**35200**	**20500**	--	1000 U
Selenium	10	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U
Silver	50	5 U	**0.67** J	**0.74** J	5 U	5 U	--	**0.7** J	**0.81** J	5 U	5 U	--	5 U
Sodium	20000	**29000**	**86200**	**58200**	**58100**	**1120**	--	**69800**	**36400**	**15500**	**32800**	--	**763** J
Thallium	NS	20 U	20 U	20 U	20 U	20 U	--	20 U	20 U	20 U	20 U	--	20 U
Vanadium	NS	20 U	20 U	**6.86** J	**7.02** J	20 U	--	20 U	20 U	20 U	20 U	--	20 U
Zinc	NS	**35.4**	**13.3** J	**3.56** J	**5.72** J	**1.85** J	--	**10.9** J	**4.22** J	**17** J	**70.2**	--	**21.4**
General Chemistry (ug/L)													
Hardness, Total	NS	**376000**	**374000**	**262000**	**246000**	**194000**	--	**420000**	**630000**	**480000**	**473000**	--	126 U
pH	NS	**6.66**	**6.74**	**9.43**	**9.49**	**7.87**	--	**6.85**	**6.71**	**6.72**	**7.02**	--	**5.48**

Table 2

Summary of 2023 Post-Closure Ground Water Analytical Results

Ferry Point Park Golf Course

New York City Department of Parks and Recreation

Sample ID	NY TOGS Class GA AWQS	PZ-01	PZ-02	GMW-11	GMW-X	GMW-5	TRIP BLANK	GMW-1	PZ-15	GMW-10	GMW-7	TB-2	FB
Sampling Date		**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**
Matrix		**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Units	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**
Chemical Oxygen Demand (COD)	NS	**140000**	**82000**	**55000**	**64000**	**126000**	--	**160000** D	**190000** D	**114000**	**15000**	--	10000 U
Biological Oxygen Demand (BOD5)	NS	**26600**	**14300**	**6360**	**3540**	**6460**	--	**95400**	**39200**	**8500**	**10200**	--	2000 U
Total Organic Carbon (TOC)	NS	**9900**	**17900**	**11000**	**11400**	**8900**	--	**28100** D	**30400** D	**26400** D	**7900**	--	**760** J
Total Kjiedahl Nitrogen (TKN)	NS	**5300**	**52600** D	**3500**	**4100**	**6900**	--	**13000** D	**49600** D	**520**	**4700**	--	500 U
Total Dissolved Solids (TDS)	NS	**508000**	**736000**	**528000**	**538000**	**332000**	--	**666000**	**773000**	**729000**	**658000**	--	10000 U
Ammonia as N	NS	**2600** D	**33800** D	**88** J	**210**	**210**	--	**13300** D	**56800** D	**1600**	**1500**	--	100 U
Phenolics	NS	50 U	50 U	**19** J	**21** J	50 U	--	50 U	50 U	50 U	50 U	--	50 U
Anions													
Bromide	NS	2000 U	**1200** J	2000 U	**750** J	2000 U	--	**900** J	**970** J	2000 U	2000 U	--	2000 U
Chloride	NS	**33000** D	**138000** D	**33900** D	**33900** D	**5700**	--	**44400** D	**38200** D	**19400** D	**21700** D	--	600 U
Nitrite	1000	600 U	600 U	600 U	600 U	600 U	--	600 U	600 U	600 U	600 U	--	600 U
Nitrate	NS	**200** J	500 U	**250** J	**200** J	500 U	--	500 U	**190** J	500 U	**1700**	--	500 U
Sulfate	NS	**34900**	**9400**	**289000** D	**292000** D	**2900** J	--	**1500** J	**3000**	**53000** D	**68000** D	--	3000 U
Nitrate+Nitrite	NS	**200** J	1100 U	**250** J	**200** J	1100 U	--	1100 U	**190** J	1100 U	**1700**	--	1100 U
Cyanide													
Cyanide	200	**27**	**140**	**42**	**4.7** J	**2.7** J	--	**35**	**340**	**220**	**10**	--	**1.4** J

Notes

-- - Not analyzed

N (Organics) - Presumptive Evidence of a Compound

N (Inorganics) - The matrix spike recovery was outside control limits

NS - No Standard

Bold - Indicates a detected concentration

Bold and shaded - Indicates an exceedance of TOGS GA Ambient Water Quality Standards

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

Q - Indicates LCS control criteria did not meet requirements.

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of 1
3. Emergency Response Phone: 631-586-5900
4. Waste Tracking Number: NHWM 219453

5. Generator's Name and Mailing Address
NYC DEPT. OF PARKS & RECREATION – CAPITAL PROJECTS - ENVIRONMENTAL REMEDIATION UNIT – OLMSTED CENTER
117-02 ROOSEVELT AVENUE
CORONA, NY 11368
Generator's Phone:

Generator's Site Address (if different than mailing address)
500 HUTCHINSON RIVER PARKWAY
THE BRONX, NY 10465

6. Transporter 1 Company Name: AARCO ENVIRONMENTAL SERVICES
U.S. EPA ID Number: NYR000107326

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
DALE TRANSFER CORP.
129 DALE STREET, WEST BABYLON NY 11704
Facility's Phone: 631-393-2882
U.S. EPA ID Number: N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON-REGULATED LIQUIDS (PURGED GROUNDWATER)	001	DM	400	P
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
1. APPROVAL # 2023-553 (.001/..x..55..)
JOB# 219453 TRUCK: B470

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Savanna Marino as agent for NYCDPR
Signature: X Marino
Month 06 Day 27 Year 23

15. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Port of entry/exit:
Date leaving U.S.:
Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Bryan Booth
Signature: Bryan Booth
Month 06 Day 27 Year 23
Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
U.S. EPA ID Number
17b. Alternate Facility (or Generator)
Facility's Phone:
Month Day Year
17c. Signature of Alternate Facility (or Generator)

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

Printed in USA by GC Labels
1-800-997-6966

DESIGNATED FACILITY TO GENERATOR

Reorder Part# MANIFEST-C6NH
913-897-6966

Appendix D

CHEMTECH Laboratory Reports

CHEMTECH

DATA PACKAGE

VOLATILE ORGANICS
GENERAL CHEMISTRY
METALS
SEMI-VOLATILE ORGANICS

PROJECT NAME : FERRY POINT

GEI CONSULTANTS, INC., P.C.

530 7th Ave, Suite 2007

New York, NY - 10018

Phone No: 212-845-9965

ORDER ID : O2495

ATTENTION : Stacey Ng

Laboratory Certification ID # 20012

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Cover Page

Order ID : O2495

Project ID : Ferry Point

Client : GEI Consultants, Inc., P.C.

Lab Sample Number	Client Sample Number
O2495-01	PZ-01
O2495-02	PZ-01
O2495-03	PZ-02
O2495-04	PZ-02
O2495-05	GMW-11
O2495-06	GMW-11
O2495-07	GMW-X
O2495-08	GMW-X
O2495-09	GMW-5
O2495-10	GMW-5
O2495-11	TRIP-BLANK

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:43 am, May 09, 2023

Date: 5/8/2023

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

GEI Consultants, Inc., P.C.
Project Name: Ferry Point
Project # N/A
Chemtech Project # O2495
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
11 Water samples were received on 04/25/2023.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, COD, Cyanide, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Hardness, Total, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics, SVOC-TCL BNA -20, TDS, TKN, TOC and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID VX035415.D met the requirements except for 2-Butanone is failing marginally Low therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

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Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature S. M. Jodhani

APPROVED

By Sohil Jodhani, QA/QC Director at 9:05 am, Jul 12, 2023

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

GEI Consultants, Inc., P.C.
Project Name: Ferry Point
Project # N/A
Chemtech Project # O2495
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
11 Water samples were received on 04/25/2023.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, COD, Cyanide, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Hardness, Total, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics, SVOC-TCL BNA -20, TDS, TKN, TOC and VOC-TCLVOA-10. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 20% in the Initial Calibration method (Method 8270-BF042123.M) for Benzaldehyde,this compound is passing on Quadratic regression.

The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 8 points.

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya QA/QC Supervisor at 10:43 am, May 09, 2023

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

GEI Consultants, Inc., P.C.
Project Name: Ferry Point
Project # N/A
Chemtech Project # O2495
Test Name: Dissolved ICP-TAL Metals,Metals ICP-TAL,Dissolved Mercury,Mercury

A. Number of Samples and Date of Receipt:
11 Water samples were received on 04/25/2023.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, COD, Cyanide, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Hardness, Total, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics, SVOC-TCL BNA -20, TDS, TKN, TOC and VOC-TCLVOA-10. This data package contains results for Dissolved ICP-TAL Metals,Metals ICP-TAL,Dissolved Mercury,Mercury.

C. Analytical Techniques:
The analysis of Dissolved ICP-TAL Metals,Metals ICP-TAL was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of Dissolved Mercury,Mercury was based on method 7470A.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (GMW-5MS) analysis met criteria for all samples except for Sodium due to both chemicals interference during digestion and unknow sample matrix interference.
The Matrix Spike Duplicate (GMW-5MSD) analysis met criteria for all samples except for Iron, Sodium due to both chemicals interference during digestion and unknow sample matrix interference.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:
In analytical sequence LB125255, The % recovery was outside of acceptance limit for Vanadium of CCV05 and for Barium, Vanadium of CCV06 but, no any samples associated under these CCVs.
Sample -O2495-01, O2495-03, O2495-05, O2495-07, O2495-09 were analyzed as Total Metal and sample -O2495-02, O2495-04, O2495-06, O2495-08, O2495-10 were analyzed as Dissolve Metal.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:46 am, May 09, 2023

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

GEI Consultants, Inc., P.C.
Project Name: Ferry Point
Project # N/A
Chemtech Project # O2495
Test Name:
pH,Alkalinity,Cyanide,TOC,Phenolics,TKN,Ammonia,TDS,COD,BOD5,Anions Group1

A. Number of Samples and Date of Receipt:
11 Water samples were received on 04/25/2023.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, COD, Cyanide, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Hardness, Total, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics, SVOC-TCL BNA -20, TDS, TKN, TOC and VOC-TCLVOA-10. This data package contains results for pH, Alkalinity, Cyanide, TOC, Phenolics, TKN, Ammonia, TDS, COD, BOD5, Anions Group1.

C. Analytical Techniques:
The analysis of Anions Group1 was based on method 300.0, The analysis of Phenolics was based on method 420.1, The analysis of Cyanide was based on method 9012B, The analysis of pH was based on method 9040C, The analysis of TOC was based on method 9060A, The analysis of Alkalinity was based on method SM2320 B, The analysis of TDS was based on method SM2540 C, The analysis of TKN was based on method SM4500 N Org B or C, The analysis of Ammonia was based on method SM4500-NH3, The analysis of BOD5 was based on method SM5210 B and The analysis of COD was based on method SM5220 D.

D. QA/ QC Samples:
The Holding Times were met for all samples except for GMW-11 of pH, for GMW-5 of pH.for GMW-X of pH.for PZ-01 of pH.for PZ-02 of pH as samples were receive out of hold.
Sample PZ-01 was diluted due to high concentrations for Ammonia as N,Chloride & Sample PZ-02 was diluted due to high concentrations for Ammonia as N,TKN,Chloride & Sample GMW-11 was diluted due to high concentrations for Chloride,Sulfate & Sample GMW-X was diluted due to high concentrations for Chloride,Sulfate.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (GMW-7MS) analysis met criteria for all samples except for Ammonia as N and Phenolics due to matrix interferences.
The Matrix Spike Duplicate (GMW-7MSD) analysis met criteria for all samples except for Ammonia as N and Phenolics due to matrix interferences.
The Blank analysis did not indicate the presence of lab contamination.

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E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:46 am, May 09, 2023

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).

U Indicates the analyte was analyzed for, but not detected.

ND Indicates the analyte was analyzed for, but not detected

E Indicates the reported value is estimated because of the presence of interference

M Indicates Duplicate injection precision not met.

N Indicates the spiked sample recovery is not within control limits.

S Indicates the reported value was determined by the Method of Standard Addition (MSA).

***** Indicates that the duplicate analysis is not within control limits.

+ Indicates the correlation coefficient for the MSA is less than 0.995.

D Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

M Method qualifiers
"P" for ICP instrument
"PM" for ICP when Microwave Digestion is used
"CV" for Manual Cold Vapor AA
"AV" for automated Cold Vapor AA
"CA" for MIDI-Distillation Spectrophotometric
"AS" for Semi –Automated Spectrophotometric
"C" for Manual Spectrophotometric
"T" for Titrimetric
"NR" for analyte not required to be analyzed

OR Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.

Q Indicates the LCS did not meet the control limits requirements

H Sample Analysis Out Of Hold Time

QA Control # A3040961

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

QA Control # A3040960

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: O2495

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: SOHIL JODHANI **Date:** 05/09/2023

2nd Level QA Review Signature: N. N. Pandya **Date:**

APPROVED
By Nimisha Pandya QA/QC Supervisor at 10:47 am, May 09, 2023

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey - 07092
Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	O2495	**OrderDate:**	4/25/2023 3:22:44 PM
Client:	GEI Consultants, Inc., P.C.	**Project:**	Ferry Point
Contact:	Stacey Ng	**Location:**	N11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O2495-01	**PZ-01**	**Water**			**04/25/23**			**04/25/23**
			VOC-TCLVOA-10	8260-Low			04/27/23	
O2495-03	**PZ-02**	**Water**			**04/25/23**			**04/25/23**
			VOC-TCLVOA-10	8260-Low			04/28/23	
O2495-05	**GMW-11**	**Water**			**04/25/23**			**04/25/23**
			VOC-TCLVOA-10	8260-Low			04/29/23	
O2495-07	**GMW-X**	**Water**			**04/25/23**			**04/25/23**
			VOC-TCLVOA-10	8260-Low			04/29/23	
O2495-09	**GMW-5**	**Water**			**04/25/23**			**04/25/23**
			VOC-TCLVOA-10	8260-Low			04/27/23	
O2495-11	**TRIP-BLANK**	**Water**			**04/25/23**			**04/25/23**
			VOC-TCLVOA-10	8260-Low			04/27/23	

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Hit Summary Sheet
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**PZ-01**								
O2495-01	PZ-01	Water	Acetone		17.7		1.20	5.00	ug/L
O2495-01	PZ-01	Water	cis-1,2-Dichloroethene		0.22	J	0.20	1.00	ug/L
O2495-01	PZ-01	Water	Trichloroethene		0.50	J	0.26	1.00	ug/L
			Total Voc :		18.4				
O2495-01	PZ-01	Water	Sulfur dioxide	*	7.90	J	0	0	ug/L
			Total Tics :		7.90				
			Total Concentration:		26.3				
Client ID:	**PZ-02**								
O2495-03	PZ-02	Water	Acetone		5.50		1.20	5.00	ug/L
			Total Voc :		5.50				
O2495-03	PZ-02	Water	Diisopropyl ether	*	0.21	J	0.12	1.00	ug/L
			Total Tics :		0.21				
			Total Concentration:		5.71				
Client ID:	**GMW-11**								
O2495-05	GMW-11	Water	Carbon Disulfide		0.61	J	0.27	1.00	ug/L
			Total Voc :		0.61				
O2495-05	GMW-11	Water	Azulene	*	20.3	J	0	0	ug/L
			Total Tics :		20.3				
			Total Concentration:		20.9				
Client ID:	**GMW-X**								
O2495-07	GMW-X	Water	Acetone		2.60	J	1.20	5.00	ug/L
O2495-07	GMW-X	Water	Carbon Disulfide		0.72	J	0.27	1.00	ug/L
O2495-07	GMW-X	Water	Benzene		0.21	J	0.12	1.00	ug/L
			Total Voc :		3.53				
O2495-07	GMW-X	Water	Azulene	*	21.5	J	0	0	ug/L
O2495-07	GMW-X	Water	Sulfur dioxide	*	5.90	J	0	0	ug/L
			Total Tics :		27.4				
			Total Concentration:		30.9				
Client ID:	**GMW-5**								
O2495-09	GMW-5	Water	Acetone		9.90		1.20	5.00	ug/L
O2495-09	GMW-5	Water	Trichloroethene		0.77	J	0.26	1.00	ug/L
			Total Voc :		10.7				
O2495-09	GMW-5	Water	Sulfur dioxide	*	10.6	J	0	0	ug/L
			Total Tics :		10.6				
			Total Concentration:		21.3				
Client ID:	**TRIP-BLANK**								
O2495-11	TRIP-BLANK	Water	Acetone		2.40	J	1.20	5.00	ug/L
O2495-11	TRIP-BLANK	Water	Trichloroethene		0.60	J	0.26	1.00	ug/L
			Total Voc :		3.00				

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Hit Summary Sheet
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
O2495-11	TRIP-BLANK	Water	Sulfur dioxide	* 18.6	J	0	0	ug/L
			Total Tics :	18.6				
			Total Concentration:	21.6				

SAMPLE DATA

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01	SDG No.:	O2495
Lab Sample ID:	O2495-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035353.D	1		04/27/23 19:50	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	17.7		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.22	J	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	0.50	J	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01	SDG No.:	O2495
Lab Sample ID:	O2495-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035353.D	1		04/27/23 19:50	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.6		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.3		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.1		64 - 133	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	225000	5.556			
540-36-3	1,4-Difluorobenzene	368000	6.763			
3114-55-4	Chlorobenzene-d5	328000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	145000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
007446-09-5	Sulfur dioxide	7.90	J		1.26	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01	SDG No.:	O2495
Lab Sample ID:	O2495-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035353.D	1		04/27/23 19:50	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02	SDG No.:	O2495
Lab Sample ID:	O2495-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035404.D	1		04/28/23 20:21	VX042823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	5.50		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02	SDG No.:	O2495
Lab Sample ID:	O2495-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035404.D	1		04/28/23 20:21	VX042823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.4		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	50.7		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.6		64 - 133	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	238000	5.55			
540-36-3	1,4-Difluorobenzene	395000	6.763			
3114-55-4	Chlorobenzene-d5	363000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	173000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
108-20-3	Diisopropyl ether	0.21	J		3.76	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02	SDG No.:	O2495
Lab Sample ID:	O2495-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035404.D	1		04/28/23 20:21	VX042823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11	SDG No.:	O2495
Lab Sample ID:	O2495-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035422.D	1		04/29/23 14:34	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	5.00	U	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	0.61	J	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11	SDG No.:	O2495
Lab Sample ID:	O2495-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035422.D	1		04/29/23 14:34	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.7		74 - 125	97%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	50.4		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		64 - 133	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	256000	5.55			
540-36-3	1,4-Difluorobenzene	415000	6.763			
3114-55-4	Chlorobenzene-d5	376000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	179000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
000275-51-4	Azulene	20.3	J		13.8	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11	SDG No.:	O2495
Lab Sample ID:	O2495-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035422.D	1		04/29/23 14:34	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-X	SDG No.:	O2495
Lab Sample ID:	O2495-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035423.D	1		04/29/23 14:57	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	2.60	J	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	0.72	J	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	0.21	J	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-X	SDG No.:	O2495
Lab Sample ID:	O2495-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035423.D	1		04/29/23 14:57	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.0		74 - 125	96%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.1		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		64 - 133	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	246000	5.556			
540-36-3	1,4-Difluorobenzene	401000	6.763			
3114-55-4	Chlorobenzene-d5	355000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	167000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
007446-09-5	Sulfur dioxide	5.90	J		1.26	ug/L
000275-51-4	Azulene	21.5	J		13.8	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-X	SDG No.:	O2495
Lab Sample ID:	O2495-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035423.D	1		04/29/23 14:57	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-5	SDG No.:	O2495
Lab Sample ID:	O2495-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035348.D	1		04/27/23 17:54	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	9.90		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	0.77	J	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-5	SDG No.:	O2495
Lab Sample ID:	O2495-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035348.D	1		04/27/23 17:54	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.3		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	49.2		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	50.3		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		64 - 133	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	232000	5.55			
540-36-3	1,4-Difluorobenzene	382000	6.763			
3114-55-4	Chlorobenzene-d5	344000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	157000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
007446-09-5	Sulfur dioxide	10.6	J		1.26	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-5	SDG No.:	O2495
Lab Sample ID:	O2495-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035348.D	1		04/27/23 17:54	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	TRIP-BLANK	SDG No.:	O2495
Lab Sample ID:	O2495-11	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035349.D	1		04/27/23 18:17	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	2.40	J	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	0.60	J	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	TRIP-BLANK	SDG No.:	O2495
Lab Sample ID:	O2495-11	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035349.D	1		04/27/23 18:17	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.2		74 - 125	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	50.9		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.4		64 - 133	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	224000	5.55			
540-36-3	1,4-Difluorobenzene	369000	6.763			
3114-55-4	Chlorobenzene-d5	343000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	160000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
007446-09-5	Sulfur dioxide	18.6	J		1.25	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	TRIP-BLANK	SDG No.:	O2495
Lab Sample ID:	O2495-11	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035349.D	1		04/27/23 18:17	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Surrogate Summary

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
O2495-01	PZ-01	1,2-Dichloroethane-d4	50	49.6	99	74	125
		Dibromofluoromethane	50	50.3	101	75	124
		Toluene-d8	50	50.3	101	86	113
		4-Bromofluorobenzene	50	48.1	96	64	133
O2495-03	PZ-02	1,2-Dichloroethane-d4	50	49.4	99	74	125
		Dibromofluoromethane	50	49.9	100	75	124
		Toluene-d8	50	50.7	101	86	113
		4-Bromofluorobenzene	50	51.6	103	64	133
O2495-05	GMW-11	1,2-Dichloroethane-d4	50	48.7	97	74	125
		Dibromofluoromethane	50	51.0	102	75	124
		Toluene-d8	50	50.5	101	86	113
		4-Bromofluorobenzene	50	51.5	103	64	133
O2495-07	GMW-X	1,2-Dichloroethane-d4	50	48.0	96	74	125
		Dibromofluoromethane	50	50.6	101	75	124
		Toluene-d8	50	50.1	100	86	113
		4-Bromofluorobenzene	50	49.6	99	64	133
O2495-09	GMW-5	1,2-Dichloroethane-d4	50	49.3	99	74	125
		Dibromofluoromethane	50	49.2	98	75	124
		Toluene-d8	50	50.3	101	86	113
		4-Bromofluorobenzene	50	49.4	99	64	133
O2495-11	TRIP-BLANK	1,2-Dichloroethane-d4	50	50.2	100	74	125
		Dibromofluoromethane	50	50.1	100	75	124
		Toluene-d8	50	50.9	102	86	113
		4-Bromofluorobenzene	50	51.4	103	64	133
VX0427WBL01	VX0427WBL01	1,2-Dichloroethane-d4	50	48.6	97	74	125
		Dibromofluoromethane	50	49.8	100	75	124
		Toluene-d8	50	50.8	102	86	113
		4-Bromofluorobenzene	50	49.5	99	64	133
VX0427WBS01	VX0427WBS01	1,2-Dichloroethane-d4	50	46.7	93	74	125
		Dibromofluoromethane	50	49.4	99	75	124
		Toluene-d8	50	48.6	97	86	113
		4-Bromofluorobenzene	50	48.9	98	64	133
VX0428WBL01	VX0428WBL01	1,2-Dichloroethane-d4	50	50.1	100	74	125
		Dibromofluoromethane	50	50.9	102	75	124
		Toluene-d8	50	50.7	101	86	113
		4-Bromofluorobenzene	50	51.5	103	64	133
VX0428WBS01	VX0428WBS01	1,2-Dichloroethane-d4	50	52.8	106	74	125
		Dibromofluoromethane	50	54.6	109	75	124
		Toluene-d8	50	53.7	107	86	113
		4-Bromofluorobenzene	50	54.6	109	64	133
VX0429WBL01	VX0429WBL01	1,2-Dichloroethane-d4	50	48.0	96	74	125
		Dibromofluoromethane	50	50.1	100	75	124
		Toluene-d8	50	50.3	101	86	113
		4-Bromofluorobenzene	50	50.8	102	64	133
VX0429WBS01	VX0429WBS01	1,2-Dichloroethane-d4	50	51.7	103	74	125
		Dibromofluoromethane	50	54.8	110	75	124
		Toluene-d8	50	53.0	106	86	113
		4-Bromofluorobenzene	50	53.9	108	64	133
VX0429WBSD0	VX0429WBSD01	1,2-Dichloroethane-d4	50	50.4	101	74	125
		Dibromofluoromethane	50	52.9	106	75	124
		Toluene-d8	50	51.5	103	86	113
		4-Bromofluorobenzene	50	52.7	105	64	133

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low **Datafile :** VX035330.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0427WBS01	Dichlorodifluoromethane	20	17.1	ug/L	86			69	116	
	Chloromethane	20	15.5	ug/L	78			65	116	
	Vinyl chloride	20	16.0	ug/L	80			65	117	
	Bromomethane	20	16.8	ug/L	84			42	173	
	Chloroethane	20	16.2	ug/L	81			44	165	
	Trichlorofluoromethane	20	16.7	ug/L	84			73	115	
	1,1,2-Trichlorotrifluoroethane	20	16.7	ug/L	84			80	112	
	1,1-Dichloroethene	20	16.3	ug/L	81			74	110	
	Acetone	100	78.3	ug/L	78			60	125	
	Carbon disulfide	20	15.7	ug/L	79			64	112	
	Methyl tert-butyl Ether	20	17.1	ug/L	86			78	114	
	Methyl Acetate	20	16.5	ug/L	83			67	125	
	Methylene Chloride	20	15.5	ug/L	78			72	114	
	trans-1,2-Dichloroethene	20	16.5	ug/L	83			75	108	
	1,1-Dichloroethane	20	16.5	ug/L	83			78	112	
	Cyclohexane	20	16.9	ug/L	85			75	110	
	2-Butanone	100	82.0	ug/L	82			65	122	
	Carbon Tetrachloride	20	17.1	ug/L	86			77	113	
	cis-1,2-Dichloroethene	20	16.6	ug/L	83			77	110	
	Bromochloromethane	20	17.1	ug/L	86			70	124	
	Chloroform	20	17.0	ug/L	85			79	113	
	1,1,1-Trichloroethane	20	16.6	ug/L	83			80	108	
	Methylcyclohexane	20	16.8	ug/L	84			72	115	
	Benzene	20	16.7	ug/L	84			82	109	
	1,2-Dichloroethane	20	16.9	ug/L	85			80	115	
	Trichloroethene	20	17.1	ug/L	86			77	113	
	1,2-Dichloropropane	20	17.0	ug/L	85			83	111	
	Bromodichloromethane	20	16.8	ug/L	84			83	110	
	4-Methyl-2-Pentanone	100	84.8	ug/L	85			74	118	
	Toluene	20	17.2	ug/L	86			82	110	
	t-1,3-Dichloropropene	20	17.5	ug/L	88			79	110	
	cis-1,3-Dichloropropene	20	17.4	ug/L	87			82	110	
	1,1,2-Trichloroethane	20	16.9	ug/L	85			83	112	
	2-Hexanone	100	86.7	ug/L	87			73	117	
	Dibromochloromethane	20	17.3	ug/L	86			82	110	
	1,2-Dibromoethane	20	17.2	ug/L	86			81	110	
	Tetrachloroethene	20	17.6	ug/L	88			67	123	
	Chlorobenzene	20	16.7	ug/L	84			82	109	
	Ethyl Benzene	20	17.1	ug/L	86			83	109	
	m/p-Xylenes	40	34.6	ug/L	86			82	110	
	o-Xylene	20	17.4	ug/L	87			83	109	
	Styrene	20	17.7	ug/L	89			80	111	
	Bromoform	20	16.6	ug/L	83			79	109	
	Isopropylbenzene	20	17.9	ug/L	90			83	112	
	1,1,2,2-Tetrachloroethane	20	17.3	ug/L	86			76	118	
	1,3-Dichlorobenzene	20	17.3	ug/L	86			82	108	
	1,4-Dichlorobenzene	20	16.6	ug/L	83			82	107	
	1,2-Dichlorobenzene	20	17.2	ug/L	86			82	109	
	1,2-Dibromo-3-Chloropropane	20	17.1	ug/L	86			68	112	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low **Datafile :** VX035330.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0427WBS01	1,2,4-Trichlorobenzene	20	17.2	ug/L	86			74	114	
	1,2,3-Trichlorobenzene	20	17.0	ug/L	85			77	113	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low **Datafile :** VX035382.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0428WBS01	Dichlorodifluoromethane	20	20.2	ug/L	101			69	116	
	Chloromethane	20	17.6	ug/L	88			65	116	
	Vinyl chloride	20	18.5	ug/L	93			65	117	
	Bromomethane	20	18.1	ug/L	91			42	173	
	Chloroethane	20	18.3	ug/L	92			44	165	
	Trichlorofluoromethane	20	20.2	ug/L	101			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.5	ug/L	98			80	112	
	1,1-Dichloroethene	20	19.0	ug/L	95			74	110	
	Acetone	100	99.6	ug/L	100			60	125	
	Carbon disulfide	20	18.4	ug/L	92			64	112	
	Methyl tert-butyl Ether	20	20.2	ug/L	101			78	114	
	Methyl Acetate	20	19.1	ug/L	96			67	125	
	Methylene Chloride	20	17.8	ug/L	89			72	114	
	trans-1,2-Dichloroethene	20	19.4	ug/L	97			75	108	
	1,1-Dichloroethane	20	19.6	ug/L	98			78	112	
	Cyclohexane	20	19.3	ug/L	97			75	110	
	2-Butanone	100	95.6	ug/L	96			65	122	
	Carbon Tetrachloride	20	20.8	ug/L	104			77	113	
	cis-1,2-Dichloroethene	20	19.4	ug/L	97			77	110	
	Bromochloromethane	20	20.6	ug/L	103			70	124	
	Chloroform	20	20.4	ug/L	102			79	113	
	1,1,1-Trichloroethane	20	20.3	ug/L	102			80	108	
	Methylcyclohexane	20	19.4	ug/L	97			72	115	
	Benzene	20	19.9	ug/L	100			82	109	
	1,2-Dichloroethane	20	20.3	ug/L	102			80	115	
	Trichloroethene	20	20.2	ug/L	101			77	113	
	1,2-Dichloropropane	20	20.2	ug/L	101			83	111	
	Bromodichloromethane	20	20.6	ug/L	103			83	110	
	4-Methyl-2-Pentanone	100	98.8	ug/L	99			74	118	
	Toluene	20	20.3	ug/L	102			82	110	
	t-1,3-Dichloropropene	20	20.8	ug/L	104			79	110	
	cis-1,3-Dichloropropene	20	20.9	ug/L	104			82	110	
	1,1,2-Trichloroethane	20	20.3	ug/L	102			83	112	
	2-Hexanone	100	100	ug/L	100			73	117	
	Dibromochloromethane	20	21.0	ug/L	105			82	110	
	1,2-Dibromoethane	20	20.6	ug/L	103			81	110	
	Tetrachloroethene	20	20.0	ug/L	100			67	123	
	Chlorobenzene	20	19.7	ug/L	99			82	109	
	Ethyl Benzene	20	20.3	ug/L	102			83	109	
	m/p-Xylenes	40	40.5	ug/L	101			82	110	
	o-Xylene	20	20.5	ug/L	103			83	109	
	Styrene	20	20.9	ug/L	104			80	111	
	Bromoform	20	20.9	ug/L	104			79	109	
	Isopropylbenzene	20	21.0	ug/L	105			83	112	
	1,1,2,2-Tetrachloroethane	20	20.8	ug/L	104			76	118	
	1,3-Dichlorobenzene	20	20.4	ug/L	102			82	108	
	1,4-Dichlorobenzene	20	19.5	ug/L	98			82	107	
	1,2-Dichlorobenzene	20	20.0	ug/L	100			82	109	
	1,2-Dibromo-3-Chloropropane	20	21.1	ug/L	106			68	112	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low **Datafile :** VX035382.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0428WBS01	1,2,4-Trichlorobenzene	20	20.4	ug/L	102			74	114	
	1,2,3-Trichlorobenzene	20	20.0	ug/L	100			77	113	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low **Datafile :** VX035418.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0429WBS01	Dichlorodifluoromethane	20	19.0	ug/L	95			69	116	
	Chloromethane	20	16.7	ug/L	84			65	116	
	Vinyl chloride	20	17.6	ug/L	88			65	117	
	Bromomethane	20	17.7	ug/L	89			42	173	
	Chloroethane	20	18.5	ug/L	93			44	165	
	Trichlorofluoromethane	20	18.8	ug/L	94			73	115	
	1,1,2-Trichlorotrifluoroethane	20	18.7	ug/L	94			80	112	
	1,1-Dichloroethene	20	18.1	ug/L	91			74	110	
	Acetone	100	88.8	ug/L	89			60	125	
	Carbon disulfide	20	17.3	ug/L	86			64	112	
	Methyl tert-butyl Ether	20	19.2	ug/L	96			78	114	
	Methyl Acetate	20	17.8	ug/L	89			67	125	
	Methylene Chloride	20	17.2	ug/L	86			72	114	
	trans-1,2-Dichloroethene	20	18.7	ug/L	94			75	108	
	1,1-Dichloroethane	20	18.8	ug/L	94			78	112	
	Cyclohexane	20	18.5	ug/L	93			75	110	
	2-Butanone	100	86.6	ug/L	87			65	122	
	Carbon Tetrachloride	20	19.7	ug/L	99			77	113	
	cis-1,2-Dichloroethene	20	18.8	ug/L	94			77	110	
	Bromochloromethane	20	22.2	ug/L	111			70	124	
	Chloroform	20	19.4	ug/L	97			79	113	
	1,1,1-Trichloroethane	20	19.3	ug/L	97			80	108	
	Methylcyclohexane	20	18.4	ug/L	92			72	115	
	Benzene	20	18.9	ug/L	95			82	109	
	1,2-Dichloroethane	20	19.1	ug/L	96			80	115	
	Trichloroethene	20	19.3	ug/L	97			77	113	
	1,2-Dichloropropane	20	19.3	ug/L	97			83	111	
	Bromodichloromethane	20	19.5	ug/L	98			83	110	
	4-Methyl-2-Pentanone	100	91.5	ug/L	92			74	118	
	Toluene	20	19.2	ug/L	96			82	110	
	t-1,3-Dichloropropene	20	19.9	ug/L	100			79	110	
	cis-1,3-Dichloropropene	20	19.9	ug/L	100			82	110	
	1,1,2-Trichloroethane	20	19.0	ug/L	95			83	112	
	2-Hexanone	100	91.5	ug/L	92			73	117	
	Dibromochloromethane	20	19.9	ug/L	100			82	110	
	1,2-Dibromoethane	20	19.4	ug/L	97			81	110	
	Tetrachloroethene	20	18.9	ug/L	95			67	123	
	Chlorobenzene	20	18.8	ug/L	94			82	109	
	Ethyl Benzene	20	19.3	ug/L	97			83	109	
	m/p-Xylenes	40	38.8	ug/L	97			82	110	
	o-Xylene	20	19.7	ug/L	99			83	109	
	Styrene	20	19.5	ug/L	98			80	111	
	Bromoform	20	19.8	ug/L	99			79	109	
	Isopropylbenzene	20	20.2	ug/L	101			83	112	
	1,1,2,2-Tetrachloroethane	20	19.2	ug/L	96			76	118	
	1,3-Dichlorobenzene	20	19.2	ug/L	96			82	108	
	1,4-Dichlorobenzene	20	18.7	ug/L	94			82	107	
	1,2-Dichlorobenzene	20	19.1	ug/L	96			82	109	
	1,2-Dibromo-3-Chloropropane	20	18.6	ug/L	93			68	112	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low **Datafile :** VX035418.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0429WBS01	1,2,4-Trichlorobenzene	20	18.7	ug/L	94			74	114	
	1,2,3-Trichlorobenzene	20	18.5	ug/L	93			77	113	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low **Datafile :** VX035419.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0429WBSD01	Dichlorodifluoromethane	20	18.1	ug/L	91	4		69	116	20
	Chloromethane	20	16.1	ug/L	81	4		65	116	20
	Vinyl chloride	20	16.8	ug/L	84	5		65	117	20
	Bromomethane	20	17.4	ug/L	87	2		42	173	20
	Chloroethane	20	17.1	ug/L	86	8		44	165	20
	Trichlorofluoromethane	20	18.4	ug/L	92	2		73	115	20
	1,1,2-Trichlorotrifluoroethane	20	18.5	ug/L	93	1		80	112	20
	1,1-Dichloroethene	20	17.4	ug/L	87	4		74	110	20
	Acetone	100	87.3	ug/L	87	2		60	125	20
	Carbon disulfide	20	16.6	ug/L	83	4		64	112	20
	Methyl tert-butyl Ether	20	19.1	ug/L	96	0		78	114	20
	Methyl Acetate	20	18.0	ug/L	90	1		67	125	20
	Methylene Chloride	20	16.7	ug/L	84	2		72	114	20
	trans-1,2-Dichloroethene	20	18.1	ug/L	91	3		75	108	20
	1,1-Dichloroethane	20	18.3	ug/L	92	2		78	112	20
	Cyclohexane	20	17.7	ug/L	89	4		75	110	20
	2-Butanone	100	86.5	ug/L	87	0		65	122	20
	Carbon Tetrachloride	20	19.1	ug/L	96	3		77	113	20
	cis-1,2-Dichloroethene	20	18.1	ug/L	91	3		77	110	20
	Bromochloromethane	20	20.8	ug/L	104	7		70	124	20
	Chloroform	20	18.7	ug/L	94	3		79	113	20
	1,1,1-Trichloroethane	20	18.6	ug/L	93	4		80	108	20
	Methylcyclohexane	20	18.0	ug/L	90	2		72	115	20
	Benzene	20	18.4	ug/L	92	3		82	109	20
	1,2-Dichloroethane	20	18.8	ug/L	94	2		80	115	20
	Trichloroethene	20	18.5	ug/L	93	4		77	113	20
	1,2-Dichloropropane	20	18.8	ug/L	94	3		83	111	20
	Bromodichloromethane	20	19.4	ug/L	97	1		83	110	20
	4-Methyl-2-Pentanone	100	92.5	ug/L	93	1		74	118	20
	Toluene	20	18.6	ug/L	93	3		82	110	20
	t-1,3-Dichloropropene	20	20.0	ug/L	100	0		79	110	20
	cis-1,3-Dichloropropene	20	19.6	ug/L	98	2		82	110	20
	1,1,2-Trichloroethane	20	19.4	ug/L	97	2		83	112	20
	2-Hexanone	100	91.8	ug/L	92	0		73	117	20
	Dibromochloromethane	20	19.7	ug/L	99	1		82	110	20
	1,2-Dibromoethane	20	19.9	ug/L	100	3		81	110	20
	Tetrachloroethene	20	18.8	ug/L	94	1		67	123	20
	Chlorobenzene	20	18.5	ug/L	93	1		82	109	20
	Ethyl Benzene	20	19.1	ug/L	96	1		83	109	20
	m/p-Xylenes	40	38.6	ug/L	97	0		82	110	20
	o-Xylene	20	19.6	ug/L	98	1		83	109	20
	Styrene	20	19.6	ug/L	98	0		80	111	20
	Bromoform	20	20.1	ug/L	101	2		79	109	20
	Isopropylbenzene	20	19.9	ug/L	100	1		83	112	20
	1,1,2,2-Tetrachloroethane	20	19.5	ug/L	98	2		76	118	20
	1,3-Dichlorobenzene	20	19.3	ug/L	97	1		82	108	20
	1,4-Dichlorobenzene	20	18.3	ug/L	92	2		82	107	20
	1,2-Dichlorobenzene	20	19.0	ug/L	95	1		82	109	20
	1,2-Dibromo-3-Chloropropane	20	18.6	ug/L	93	0		68	112	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low **Datafile :** VX035419.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0429WBSD01	1,2,4-Trichlorobenzene	20	18.9	ug/L	95	1		74	114	20
	1,2,3-Trichlorobenzene	20	19.3	ug/L	97	4		77	113	20

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0427WBL01

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035329.D Lab Sample ID: VX0427WBL01

Date Analyzed: 04/27/2023 Time Analyzed: 10:29

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0427WBS01	VX0427WBS01	VX035330.D	04/27/2023
GMW-5	O2495-09	VX035348.D	04/27/2023
TRIP-BLANK	O2495-11	VX035349.D	04/27/2023
PZ-01	O2495-01	VX035353.D	04/27/2023

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0428WBL01

Lab Name: CHEMTECH

Contract: GEIC06

Lab Code: CHEM

Case No.: O2495

SAS No.: O2495

SDG NO.: O2495

Lab File ID: VX035381.D

Lab Sample ID: VX0428WBL01

Date Analyzed: 04/28/2023

Time Analyzed: 11:21

GC Column: DB-624UI

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0428WBS01	VX0428WBS01	VX035382.D	04/28/2023
PZ-02	O2495-03	VX035404.D	04/28/2023

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0429WBL01

Lab Name: CHEMTECH

Contract: GEIC06

Lab Code: CHEM

Case No.: O2495

SAS No.: O2495

SDG NO.: O2495

Lab File ID: VX035417.D

Lab Sample ID: VX0429WBL01

Date Analyzed: 04/29/2023

Time Analyzed: 12:36

GC Column: DB-624UI

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0429WBS01	VX0429WBS01	VX035418.D	04/29/2023
VX0429WBSD01	VX0429WBSD01	VX035419.D	04/29/2023
GMW-11	O2495-05	VX035422.D	04/29/2023
GMW-X	O2495-07	VX035423.D	04/29/2023

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035269.D BFB Injection Date: 04/25/2023

Instrument ID: MSVOA_X BFB Injection Time: 08:57

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.5
75	30.0 - 60.0% of mass 95	49.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.5 (0.6) 1
174	50.0 - 100.0% of mass 95	75.5
175	5.0 - 9.0% of mass 174	5.9 (7.8) 1
176	95.0 - 101.0% of mass 174	75.2 (99.5) 1
177	5.0 - 9.0% of mass 176	5.1 (6.7) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX035272.D	04/25/2023	10:37
VSTDICC005	VSTDICC005	VX035273.D	04/25/2023	11:00
VSTDICC020	VSTDICC020	VX035274.D	04/25/2023	11:23
VSTDICCC050	VSTDICCC050	VX035275.D	04/25/2023	11:46
VSTDICC150	VSTDICC150	VX035277.D	04/25/2023	12:32
VSTDICC100	VSTDICC100	VX035279.D	04/25/2023	13:21

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035326.D BFB Injection Date: 04/27/2023

Instrument ID: MSVOA_X BFB Injection Time: 08:28

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.6
75	30.0 - 60.0% of mass 95	48.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.2 (0.3) 1
174	50.0 - 100.0% of mass 95	75.9
175	5.0 - 9.0% of mass 174	6 (7.9) 1
176	95.0 - 101.0% of mass 174	72.8 (95.9) 1
177	5.0 - 9.0% of mass 176	4.9 (6.7) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX035327.D	04/27/2023	09:40
VX0427WBL01	VX0427WBL01	VX035329.D	04/27/2023	10:29
VX0427WBS01	VX0427WBS01	VX035330.D	04/27/2023	10:52
GMW-5	O2495-09	VX035348.D	04/27/2023	17:54
TRIP-BLANK	O2495-11	VX035349.D	04/27/2023	18:17
PZ-01	O2495-01	VX035353.D	04/27/2023	19:50

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035378.D BFB Injection Date: 04/28/2023

Instrument ID: MSVOA_X BFB Injection Time: 10:03

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.2
75	30.0 - 60.0% of mass 95	50.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.4 (0.5) 1
174	50.0 - 100.0% of mass 95	76.7
175	5.0 - 9.0% of mass 174	5.8 (7.5) 1
176	95.0 - 101.0% of mass 174	73.7 (96.1) 1
177	5.0 - 9.0% of mass 176	5 (6.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX035379.D	04/28/2023	10:31
VX0428WBL01	VX0428WBL01	VX035381.D	04/28/2023	11:21
VX0428WBS01	VX0428WBS01	VX035382.D	04/28/2023	11:44
PZ-02	O2495-03	VX035404.D	04/28/2023	20:21

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035414.D BFB Injection Date: 04/29/2023

Instrument ID: MSVOA_X BFB Injection Time: 11:13

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.5
75	30.0 - 60.0% of mass 95	48.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.3 (0.4) 1
174	50.0 - 100.0% of mass 95	79.2
175	5.0 - 9.0% of mass 174	5.9 (7.4) 1
176	95.0 - 101.0% of mass 174	76.8 (97) 1
177	5.0 - 9.0% of mass 176	4.7 (6.2) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX035415.D	04/29/2023	11:44
VX0429WBL01	VX0429WBL01	VX035417.D	04/29/2023	12:36
VX0429WBS01	VX0429WBS01	VX035418.D	04/29/2023	12:59
VX0429WBSD01	VX0429WBSD01	VX035419.D	04/29/2023	13:25
GMW-11	O2495-05	VX035422.D	04/29/2023	14:34
GMW-X	O2495-07	VX035423.D	04/29/2023	14:57

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035327.D Date Analyzed: 04/27/2023

Instrument ID: MSVOA_X Time Analyzed: 09:40

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	296701	5.55	462567	6.76	410355	10.06
UPPER LIMIT	593402	6.05	925134	7.257	820710	10.555
LOWER LIMIT	148351	5.05	231284	6.257	205178	9.555
EPA SAMPLE NO.						
PZ-01	225496	5.56	367679	6.76	327989	10.06
GMW-5	231525	5.55	382487	6.76	343993	10.06
TRIP-BLANK	224211	5.55	369366	6.76	342746	10.06
VX0427WBL01	250831	5.55	410206	6.76	369675	10.06
VX0427WBS01	295038	5.55	458100	6.76	405076	10.06

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035327.D Date Analyzed: 04/27/2023

Instrument ID: MSVOA_X Time Analyzed: 09:40

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	207220	12.024				
UPPER LIMIT	414440	12.524				
LOWER LIMIT	103610	11.524				
EPA SAMPLE NO.						
PZ-01	145355	12.02				
GMW-5	157240	12.02				
TRIP-BLANK	159589	12.02				
VX0427WBL01	172799	12.02				
VX0427WBS01	199849	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035379.D Date Analyzed: 04/28/2023

Instrument ID: MSVOA_X Time Analyzed: 10:31

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	261150	5.55	399192	6.76	353705	10.06
UPPER LIMIT	522300	6.05	798384	7.257	707410	10.555
LOWER LIMIT	130575	5.05	199596	6.257	176853	9.555
EPA SAMPLE NO.						
PZ-02	238419	5.55	394894	6.76	363087	10.06
VX0428WBL01	223220	5.55	366670	6.76	331319	10.06
VX0428WBS01	288171	5.55	446481	6.76	395148	10.06

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035379.D Date Analyzed: 04/28/2023

Instrument ID: MSVOA_X Time Analyzed: 10:31

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	177369	12.024				
UPPER LIMIT	354738	12.524				
LOWER LIMIT	88684.5	11.524				
EPA SAMPLE NO.						
PZ-02	173207	12.02				
VX0428WBL01	156787	12.02				
VX0428WBS01	195798	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035415.D Date Analyzed: 04/29/2023

Instrument ID: MSVOA_X Time Analyzed: 11:44

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	285341	5.54	436930	6.76	380748	10.05
UPPER LIMIT	570682	6.044	873860	7.257	761496	10.549
LOWER LIMIT	142671	5.044	218465	6.257	190374	9.549
EPA SAMPLE NO.						
GMW-11	255672	5.55	415401	6.76	375783	10.06
GMW-X	245800	5.56	400537	6.76	355066	10.06
VX0429WBL01	258992	5.55	421873	6.76	380863	10.06
VX0429WBS01	300917	5.55	468999	6.76	416096	10.06
VX0429WBSD01	274595	5.55	424456	6.76	373456	10.06

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035415.D Date Analyzed: 04/29/2023

Instrument ID: MSVOA_X Time Analyzed: 11:44

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	189139	12.018				
UPPER LIMIT	378278	12.518				
LOWER LIMIT	94569.5	11.518				
EPA SAMPLE NO.						
GMW-11	179310	12.02				
GMW-X	166692	12.02				
VX0429WBL01	178613	12.02				
VX0429WBS01	203044	12.02				
VX0429WBSD01	185885	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0427WBL01	SDG No.:	O2495
Lab Sample ID:	VX0427WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035329.D	1		04/27/23 10:29	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	5.00	U	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0427WBL01	SDG No.:	O2495
Lab Sample ID:	VX0427WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035329.D	1		04/27/23 10:29	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.6		74 - 125	97%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	50.8		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		64 - 133	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	251000	5.55			
540-36-3	1,4-Difluorobenzene	410000	6.757			
3114-55-4	Chlorobenzene-d5	370000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	173000	12.024			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0427WBL01	SDG No.:	O2495
Lab Sample ID:	VX0427WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035329.D	1		04/27/23 10:29	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0428WBL01	SDG No.:	O2495
Lab Sample ID:	VX0428WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035381.D	1		04/28/23 11:21	VX042823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	5.00	U	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0428WBL01	SDG No.:	O2495
Lab Sample ID:	VX0428WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035381.D	1		04/28/23 11:21	VX042823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.1		74 - 125	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	50.7		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		64 - 133	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	223000	5.55			
540-36-3	1,4-Difluorobenzene	367000	6.763			
3114-55-4	Chlorobenzene-d5	331000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	157000	12.024			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0428WBL01	SDG No.:	O2495
Lab Sample ID:	VX0428WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035381.D	1		04/28/23 11:21	VX042823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0429WBL01	SDG No.:	O2495
Lab Sample ID:	VX0429WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035417.D	1		04/29/23 12:36	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	5.00	U	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0429WBL01	SDG No.:	O2495
Lab Sample ID:	VX0429WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035417.D	1		04/29/23 12:36	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.0		74 - 125	96%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	50.3		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.8		64 - 133	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	259000	5.55			
540-36-3	1,4-Difluorobenzene	422000	6.763			
3114-55-4	Chlorobenzene-d5	381000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	179000	12.024			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0429WBL01	SDG No.:	O2495
Lab Sample ID:	VX0429WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035417.D	1		04/29/23 12:36	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0427WBS01	SDG No.:	O2495
Lab Sample ID:	VX0427WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035330.D	1		04/27/23 10:52	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.1		0.14	1.00	ug/L
74-87-3	Chloromethane	15.5		0.25	1.00	ug/L
75-01-4	Vinyl Chloride	16.0		0.25	1.00	ug/L
74-83-9	Bromomethane	16.8		1.60	5.00	ug/L
75-00-3	Chloroethane	16.2		0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	16.7		0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	16.7		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	16.3		0.21	1.00	ug/L
67-64-1	Acetone	78.3		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	15.7		0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.1		0.14	1.00	ug/L
79-20-9	Methyl Acetate	16.5		0.36	1.00	ug/L
75-09-2	Methylene Chloride	15.5		0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	16.5		0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	16.5		0.16	1.00	ug/L
110-82-7	Cyclohexane	16.9		1.60	5.00	ug/L
78-93-3	2-Butanone	82.0		1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	17.1		0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	16.6		0.20	1.00	ug/L
74-97-5	Bromochloromethane	17.1		0.14	1.00	ug/L
67-66-3	Chloroform	17.0		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	16.6		0.14	1.00	ug/L
108-87-2	Methylcyclohexane	16.8		0.16	1.00	ug/L
71-43-2	Benzene	16.7		0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	16.9		0.16	1.00	ug/L
79-01-6	Trichloroethene	17.1		0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	17.0		0.15	1.00	ug/L
75-27-4	Bromodichloromethane	16.8		0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	84.8		0.74	5.00	ug/L
108-88-3	Toluene	17.2		0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	17.5		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	17.4		0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0427WBS01	SDG No.:	O2495
Lab Sample ID:	VX0427WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035330.D	1		04/27/23 10:52	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	16.9		0.13	1.00	ug/L
591-78-6	2-Hexanone	86.7		0.98	5.00	ug/L
124-48-1	Dibromochloromethane	17.3		0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	17.2		0.13	1.00	ug/L
127-18-4	Tetrachloroethene	17.6		0.17	1.00	ug/L
108-90-7	Chlorobenzene	16.7		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	17.1		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	34.6		0.31	2.00	ug/L
95-47-6	o-Xylene	17.4		0.15	1.00	ug/L
100-42-5	Styrene	17.7		0.13	1.00	ug/L
75-25-2	Bromoform	16.6		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	17.9		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	17.3		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	17.3		0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	16.6		0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.2		0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.1		0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.2		0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.0		0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.7		74 - 125	93%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	48.6		86 - 113	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		64 - 133	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	295000	5.55			
540-36-3	1,4-Difluorobenzene	458000	6.763			
3114-55-4	Chlorobenzene-d5	405000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	200000	12.024			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0427WBS01	SDG No.:	O2495
Lab Sample ID:	VX0427WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035330.D	1		04/27/23 10:52	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0428WBS01	SDG No.:	O2495
Lab Sample ID:	VX0428WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035382.D	1		04/28/23 11:44	VX042823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.2		0.14	1.00	ug/L
74-87-3	Chloromethane	17.6		0.25	1.00	ug/L
75-01-4	Vinyl Chloride	18.5		0.25	1.00	ug/L
74-83-9	Bromomethane	18.1		1.60	5.00	ug/L
75-00-3	Chloroethane	18.3		0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.2		0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.5		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.0		0.21	1.00	ug/L
67-64-1	Acetone	99.6		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	18.4		0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.2		0.14	1.00	ug/L
79-20-9	Methyl Acetate	19.1		0.36	1.00	ug/L
75-09-2	Methylene Chloride	17.8		0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.4		0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.6		0.16	1.00	ug/L
110-82-7	Cyclohexane	19.3		1.60	5.00	ug/L
78-93-3	2-Butanone	95.6		1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.8		0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.4		0.20	1.00	ug/L
74-97-5	Bromochloromethane	20.6		0.14	1.00	ug/L
67-66-3	Chloroform	20.4		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.3		0.14	1.00	ug/L
108-87-2	Methylcyclohexane	19.4		0.16	1.00	ug/L
71-43-2	Benzene	19.9		0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.3		0.16	1.00	ug/L
79-01-6	Trichloroethene	20.2		0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.2		0.15	1.00	ug/L
75-27-4	Bromodichloromethane	20.6		0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	98.8		0.74	5.00	ug/L
108-88-3	Toluene	20.3		0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	20.8		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.9		0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0428WBS01	SDG No.:	O2495
Lab Sample ID:	VX0428WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035382.D	1		04/28/23 11:44	VX042823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	20.3		0.13	1.00	ug/L
591-78-6	2-Hexanone	100		0.98	5.00	ug/L
124-48-1	Dibromochloromethane	21.0		0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.6		0.13	1.00	ug/L
127-18-4	Tetrachloroethene	20.0		0.17	1.00	ug/L
108-90-7	Chlorobenzene	19.7		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	20.3		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	40.5		0.31	2.00	ug/L
95-47-6	o-Xylene	20.5		0.15	1.00	ug/L
100-42-5	Styrene	20.9		0.13	1.00	ug/L
75-25-2	Bromoform	20.9		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	21.0		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.8		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.4		0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.5		0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.0		0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	21.1		0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.4		0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.0		0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.8		74 - 125	106%	SPK: 50
1868-53-7	Dibromofluoromethane	54.6		75 - 124	109%	SPK: 50
2037-26-5	Toluene-d8	53.7		86 - 113	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.6		64 - 133	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	288000	5.55			
540-36-3	1,4-Difluorobenzene	446000	6.763			
3114-55-4	Chlorobenzene-d5	395000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	196000	12.024			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0428WBS01	SDG No.:	O2495
Lab Sample ID:	VX0428WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035382.D	1		04/28/23 11:44	VX042823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0429WBS01	SDG No.:	O2495
Lab Sample ID:	VX0429WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035418.D	1		04/29/23 12:59	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.0		0.14	1.00	ug/L
74-87-3	Chloromethane	16.7		0.25	1.00	ug/L
75-01-4	Vinyl Chloride	17.6		0.25	1.00	ug/L
74-83-9	Bromomethane	17.7		1.60	5.00	ug/L
75-00-3	Chloroethane	18.5		0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.8		0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.7		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.1		0.21	1.00	ug/L
67-64-1	Acetone	88.8		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	17.3		0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.2		0.14	1.00	ug/L
79-20-9	Methyl Acetate	17.8		0.36	1.00	ug/L
75-09-2	Methylene Chloride	17.2		0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.7		0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.8		0.16	1.00	ug/L
110-82-7	Cyclohexane	18.5		1.60	5.00	ug/L
78-93-3	2-Butanone	86.6		1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.7		0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.8		0.20	1.00	ug/L
74-97-5	Bromochloromethane	22.2		0.14	1.00	ug/L
67-66-3	Chloroform	19.4		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.3		0.14	1.00	ug/L
108-87-2	Methylcyclohexane	18.4		0.16	1.00	ug/L
71-43-2	Benzene	18.9		0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.1		0.16	1.00	ug/L
79-01-6	Trichloroethene	19.3		0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.3		0.15	1.00	ug/L
75-27-4	Bromodichloromethane	19.5		0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	91.5		0.74	5.00	ug/L
108-88-3	Toluene	19.2		0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.9		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.9		0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0429WBS01	SDG No.:	O2495
Lab Sample ID:	VX0429WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035418.D	1		04/29/23 12:59	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	19.0		0.13	1.00	ug/L
591-78-6	2-Hexanone	91.5		0.98	5.00	ug/L
124-48-1	Dibromochloromethane	19.9		0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.4		0.13	1.00	ug/L
127-18-4	Tetrachloroethene	18.9		0.17	1.00	ug/L
108-90-7	Chlorobenzene	18.8		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	19.3		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	38.8		0.31	2.00	ug/L
95-47-6	o-Xylene	19.7		0.15	1.00	ug/L
100-42-5	Styrene	19.5		0.13	1.00	ug/L
75-25-2	Bromoform	19.8		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	20.2		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.2		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.2		0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.7		0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.1		0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.6		0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.7		0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.5		0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.7		74 - 125	103%	SPK: 50
1868-53-7	Dibromofluoromethane	54.8		75 - 124	110%	SPK: 50
2037-26-5	Toluene-d8	53.0		86 - 113	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.9		64 - 133	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	301000	5.55			
540-36-3	1,4-Difluorobenzene	469000	6.763			
3114-55-4	Chlorobenzene-d5	416000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	203000	12.018			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0429WBS01	SDG No.:	O2495
Lab Sample ID:	VX0429WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035418.D	1		04/29/23 12:59	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0429WBSD01	SDG No.:	O2495
Lab Sample ID:	VX0429WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035419.D	1		04/29/23 13:25	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.1		0.14	1.00	ug/L
74-87-3	Chloromethane	16.1		0.25	1.00	ug/L
75-01-4	Vinyl Chloride	16.8		0.25	1.00	ug/L
74-83-9	Bromomethane	17.4		1.60	5.00	ug/L
75-00-3	Chloroethane	17.1		0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.4		0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.5		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.4		0.21	1.00	ug/L
67-64-1	Acetone	87.3		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	16.6		0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.1		0.14	1.00	ug/L
79-20-9	Methyl Acetate	18.0		0.36	1.00	ug/L
75-09-2	Methylene Chloride	16.7		0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.1		0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.3		0.16	1.00	ug/L
110-82-7	Cyclohexane	17.7		1.60	5.00	ug/L
78-93-3	2-Butanone	86.5		1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.1		0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.1		0.20	1.00	ug/L
74-97-5	Bromochloromethane	20.8		0.14	1.00	ug/L
67-66-3	Chloroform	18.7		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.6		0.14	1.00	ug/L
108-87-2	Methylcyclohexane	18.0		0.16	1.00	ug/L
71-43-2	Benzene	18.4		0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.8		0.16	1.00	ug/L
79-01-6	Trichloroethene	18.5		0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.8		0.15	1.00	ug/L
75-27-4	Bromodichloromethane	19.4		0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	92.5		0.74	5.00	ug/L
108-88-3	Toluene	18.6		0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	20.0		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.6		0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0429WBSD01	SDG No.:	O2495
Lab Sample ID:	VX0429WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035419.D	1		04/29/23 13:25	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	19.4		0.13	1.00	ug/L
591-78-6	2-Hexanone	91.8		0.98	5.00	ug/L
124-48-1	Dibromochloromethane	19.7		0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.9		0.13	1.00	ug/L
127-18-4	Tetrachloroethene	18.8		0.17	1.00	ug/L
108-90-7	Chlorobenzene	18.5		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	19.1		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	38.6		0.31	2.00	ug/L
95-47-6	o-Xylene	19.6		0.15	1.00	ug/L
100-42-5	Styrene	19.6		0.13	1.00	ug/L
75-25-2	Bromoform	20.1		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	19.9		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.5		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.3		0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.3		0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.0		0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.6		0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.9		0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.3		0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.4		74 - 125	101%	SPK: 50
1868-53-7	Dibromofluoromethane	52.9		75 - 124	106%	SPK: 50
2037-26-5	Toluene-d8	51.4		86 - 113	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.7		64 - 133	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	275000	5.55			
540-36-3	1,4-Difluorobenzene	424000	6.757			
3114-55-4	Chlorobenzene-d5	373000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	186000	12.024			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0429WBSD01	SDG No.:	O2495
Lab Sample ID:	VX0429WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035419.D	1		04/29/23 13:25	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: MSVOA_X Calibration Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Calibration Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX035272.D RRF005 = VX035273.D RRF020 = VX035274.D
RRF050 = VX035275.D RRF150 = VX035277.D RRF100 = VX035279.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF150	RRF100	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.488	0.488	0.515	0.550	0.543	0.589	0.529	7.5
Chloromethane	0.521	0.467	0.445	0.473	0.484	0.498	0.481	5.4
Vinyl Chloride	0.485	0.479	0.449	0.478	0.488	0.518	0.483	4.6
Bromomethane		0.316	0.307	0.317	0.328	0.336	0.321	3.5
Chloroethane	0.332	0.268	0.264	0.277	0.268	0.285	0.282	9
Trichlorofluoromethane	0.848	0.740	0.719	0.732	0.713	0.778	0.755	6.8
1,1,2-Trichlorotrifluoroethane	0.562	0.496	0.459	0.493	0.483	0.532	0.504	7.3
1,1-Dichloroethene	0.545	0.475	0.444	0.471	0.475	0.504	0.486	7.2
Acetone	0.310	0.255	0.247	0.253	0.237	0.270	0.262	9.9
Carbon Disulfide	1.168	1.018	1.053	1.182	1.259	1.304	1.164	9.6
Methyl tert-butyl Ether	1.731	1.674	1.558	1.657	1.649	1.727	1.666	3.8
Methyl Acetate	1.071	0.953	0.968	1.022	1.018	1.048	1.013	4.5
Methylene Chloride	0.840	0.588	0.536	0.539	0.536	0.565	0.601	19.8
trans-1,2-Dichloroethene	0.567	0.535	0.488	0.514	0.515	0.546	0.527	5.2
1,1-Dichloroethane	0.982	0.949	0.895	0.949	0.944	0.997	0.953	3.7
Cyclohexane		0.842	0.832	0.855	0.841	0.909	0.856	3.6
2-Butanone	0.395	0.386	0.365	0.382	0.373	0.394	0.382	3.1
Carbon Tetrachloride	0.427	0.412	0.429	0.466	0.485	0.511	0.455	8.5
cis-1,2-Dichloroethene	0.713	0.600	0.569	0.598	0.606	0.634	0.620	8.1
Bromochloromethane	0.364	0.421	0.404	0.415	0.417	0.414	0.406	5.2
Chloroform	0.969	0.967	0.924	0.960	0.950	0.999	0.962	2.6
1,1,1-Trichloroethane	0.848	0.797	0.778	0.851	0.874	0.908	0.843	5.7
Methylcyclohexane	0.593	0.561	0.550	0.580	0.579	0.637	0.583	5.2
Benzene	1.473	1.386	1.313	1.345	1.325	1.406	1.375	4.3
1,2-Dichloroethane	0.514	0.498	0.464	0.482	0.479	0.504	0.490	3.8
Trichloroethene	0.391	0.383	0.358	0.372	0.372	0.395	0.379	3.6
1,2-Dichloropropane	0.366	0.335	0.325	0.344	0.344	0.364	0.347	4.7
Bromodichloromethane	0.404	0.406	0.406	0.455	0.470	0.490	0.438	8.7
4-Methyl-2-Pentanone	0.465	0.459	0.439	0.454	0.434	0.461	0.452	2.8
Toluene	0.911	0.880	0.829	0.864	0.845	0.899	0.871	3.6
t-1,3-Dichloropropene	0.351	0.368	0.434	0.496	0.539	0.559	0.458	19.1
cis-1,3-Dichloropropene	0.419	0.459	0.496	0.553	0.577	0.603	0.518	13.8
1,1,2-Trichloroethane	0.382	0.344	0.326	0.343	0.336	0.352	0.347	5.6

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: MSVOA_X Calibration Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Calibration Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX035272.D RRF005 = VX035273.D RRF020 = VX035274.D
RRF050 = VX035275.D RRF150 = VX035277.D RRF100 = VX035279.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF150	RRF100	$\overline{RRF}$	% RSD
2-Hexanone	0.339	0.342	0.332	0.347	0.322	0.354	0.339	3.3
Dibromochloromethane	0.271	0.290	0.315	0.355	0.375	0.390	0.333	14.4
1,2-Dibromoethane	0.355	0.347	0.345	0.362	0.361	0.379	0.358	3.4
Tetrachloroethene	0.447	0.394	0.356	0.363	0.351	0.386	0.383	9.4
Chlorobenzene	1.214	1.127	0.997	1.030	1.022	1.101	1.082	7.6
Ethyl Benzene	1.993	1.874	1.739	1.854	1.811	1.969	1.873	5.1
m/p-Xylenes	0.731	0.731	0.679	0.710	0.697	0.760	0.718	4
o-Xylene	0.705	0.717	0.669	0.697	0.690	0.745	0.704	3.7
Styrene	1.078	1.132	1.088	1.154	1.147	1.248	1.141	5.3
Bromoform	0.213	0.219	0.234	0.279	0.306	0.321	0.262	17.7
Isopropylbenzene	3.616	3.740	3.546	3.603	3.607	3.818	3.655	2.8
1,1,2,2-Tetrachloroethane	1.225	1.172	1.082	1.102	1.085	1.142	1.134	5
1,3-Dichlorobenzene	1.794	1.735	1.619	1.675	1.721	1.816	1.727	4.3
1,4-Dichlorobenzene	2.166	1.837	1.637	1.681	1.706	1.834	1.810	10.6
1,2-Dichlorobenzene	2.007	1.786	1.599	1.632	1.600	1.738	1.727	9.1
1,2-Dibromo-3-Chloropropane	0.202	0.192	0.214	0.238	0.261	0.258	0.227	12.8
1,2,4-Trichlorobenzene	1.123	0.998	1.002	1.058	1.132	1.201	1.085	7.4
1,2,3-Trichlorobenzene	1.181	1.071	1.004	1.046	1.098	1.156	1.093	6.1
1,2-Dichloroethane-d4		0.633	0.613	0.597	0.573	0.600	0.603	3.7
Dibromofluoromethane		0.302	0.309	0.308	0.297	0.318	0.307	2.6
Toluene-d8		1.179	1.191	1.167	1.087	1.165	1.158	3.5
4-Bromofluorobenzene		0.428	0.442	0.436	0.421	0.450	0.435	2.6

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: MSVOA_X Calibration Date/Time: 04/27/2023 09:40

Lab File ID: VX035327.D Init. Calib. Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.529	0.482		-8.89	20
Chloromethane	0.481	0.397	0.1	-17.46	20
Vinyl Chloride	0.483	0.415		-14.08	20
Bromomethane	0.321	0.282		-12.15	20
Chloroethane	0.282	0.237		-15.96	20
Trichlorofluoromethane	0.755	0.666		-11.79	20
1,1,2-Trichlorotrifluoroethane	0.504	0.445		-11.71	20
1,1-Dichloroethene	0.486	0.422		-13.17	20
Acetone	0.262	0.217		-17.18	20
Carbon Disulfide	1.164	1.050		-9.79	20
Methyl tert-butyl Ether	1.666	1.487		-10.74	20
Methyl Acetate	1.013	0.866		-14.51	20
Methylene Chloride	0.601	0.487		-18.97	20
trans-1,2-Dichloroethene	0.527	0.464		-11.95	20
1,1-Dichloroethane	0.953	0.839	0.1	-11.96	20
Cyclohexane	0.856	0.748		-12.62	20
2-Butanone	0.382	0.327		-14.4	20
Carbon Tetrachloride	0.455	0.426		-6.37	20
cis-1,2-Dichloroethene	0.620	0.534		-13.87	20
Bromochloromethane	0.406	0.399		-1.72	20
Chloroform	0.962	0.862		-10.4	20
1,1,1-Trichloroethane	0.843	0.757		-10.2	20
Methylcyclohexane	0.583	0.517		-11.32	20
Benzene	1.375	1.203		-12.51	20
1,2-Dichloroethane	0.490	0.434		-11.43	20
Trichloroethene	0.379	0.340		-10.29	20
1,2-Dichloropropane	0.347	0.309		-10.95	20
Bromodichloromethane	0.438	0.413		-5.71	20
4-Methyl-2-Pentanone	0.452	0.389		-13.94	20
Toluene	0.871	0.775		-11.02	20
t-1,3-Dichloropropene	0.458	0.460		0.44	20
cis-1,3-Dichloropropene	0.518	0.507		-2.12	20
1,1,2-Trichloroethane	0.347	0.308		-11.24	20
2-Hexanone	0.339	0.301		-11.21	20
Dibromochloromethane	0.333	0.324		-2.7	20
1,2-Dibromoethane	0.358	0.326		-8.94	20
Tetrachloroethene	0.383	0.341		-10.97	20
Chlorobenzene	1.082	0.935	0.3	-13.59	20
Ethyl Benzene	1.873	1.674		-10.63	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: MSVOA_X Calibration Date/Time: 04/27/2023 09:40

Lab File ID: VX035327.D Init. Calib. Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.718	0.646		-10.03	20
o-Xylene	0.704	0.637		-9.52	20
Styrene	1.141	1.049		-8.06	20
Bromoform	0.262	0.261	0.1	-0.38	20
Isopropylbenzene	3.655	3.314		-9.33	20
1,1,2,2-Tetrachloroethane	1.134	0.999	0.3	-11.9	20
1,3-Dichlorobenzene	1.727	1.556		-9.9	20
1,4-Dichlorobenzene	1.810	1.548		-14.48	20
1,2-Dichlorobenzene	1.727	1.511		-12.51	20
1,2-Dibromo-3-Chloropropane	0.227	0.213		-6.17	20
1,2,4-Trichlorobenzene	1.085	1.017		-6.27	20
1,2,3-Trichlorobenzene	1.093	0.973		-10.98	20
1,2-Dichloroethane-d4	0.603	0.564		-6.47	20
Dibromofluoromethane	0.307	0.298		-2.93	20
Toluene-d8	1.158	1.112		-3.97	20
4-Bromofluorobenzene	0.435	0.427		-1.84	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: MSVOA_X Calibration Date/Time: 04/28/2023 10:31

Lab File ID: VX035379.D Init. Calib. Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.529	0.542		2.46	20
Chloromethane	0.481	0.417	0.1	-13.31	20
Vinyl Chloride	0.483	0.445		-7.87	20
Bromomethane	0.321	0.283		-11.84	20
Chloroethane	0.282	0.257		-8.86	20
Trichlorofluoromethane	0.755	0.748		-0.93	20
1,1,2-Trichlorotrifluoroethane	0.504	0.503		-0.2	20
1,1-Dichloroethene	0.486	0.463		-4.73	20
Acetone	0.262	0.258		-1.53	20
Carbon Disulfide	1.164	1.105		-5.07	20
Methyl tert-butyl Ether	1.666	1.641		-1.5	20
Methyl Acetate	1.013	0.945		-6.71	20
Methylene Chloride	0.601	0.523		-12.98	20
trans-1,2-Dichloroethene	0.527	0.504		-4.36	20
1,1-Dichloroethane	0.953	0.921	0.1	-3.36	20
Cyclohexane	0.856	0.815		-4.79	20
2-Butanone	0.382	0.350		-8.38	20
Carbon Tetrachloride	0.455	0.487		7.03	20
cis-1,2-Dichloroethene	0.620	0.591		-4.68	20
Bromochloromethane	0.406	0.397		-2.22	20
Chloroform	0.962	0.958		-0.42	20
1,1,1-Trichloroethane	0.843	0.846		0.36	20
Methylcyclohexane	0.583	0.583		0	20
Benzene	1.375	1.348		-1.96	20
1,2-Dichloroethane	0.490	0.493		0.61	20
Trichloroethene	0.379	0.380		0.26	20
1,2-Dichloropropane	0.347	0.346		-0.29	20
Bromodichloromethane	0.438	0.463		5.71	20
4-Methyl-2-Pentanone	0.452	0.431		-4.65	20
Toluene	0.871	0.869		-0.23	20
t-1,3-Dichloropropene	0.458	0.516		12.66	20
cis-1,3-Dichloropropene	0.518	0.562		8.49	20
1,1,2-Trichloroethane	0.347	0.343		-1.15	20
2-Hexanone	0.339	0.328		-3.24	20
Dibromochloromethane	0.333	0.369		10.81	20
1,2-Dibromoethane	0.358	0.361		0.84	20
Tetrachloroethene	0.383	0.379		-1.04	20
Chlorobenzene	1.082	1.054	0.3	-2.59	20
Ethyl Benzene	1.873	1.894		1.12	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: MSVOA_X Calibration Date/Time: 04/28/2023 10:31

Lab File ID: VX035379.D Init. Calib. Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.718	0.727		1.25	20
o-Xylene	0.704	0.718		1.99	20
Styrene	1.141	1.189		4.21	20
Bromoform	0.262	0.290	0.1	10.69	20
Isopropylbenzene	3.655	3.772		3.2	20
1,1,2,2-Tetrachloroethane	1.134	1.106	0.3	-2.47	20
1,3-Dichlorobenzene	1.727	1.750		1.33	20
1,4-Dichlorobenzene	1.810	1.744		-3.65	20
1,2-Dichlorobenzene	1.727	1.702		-1.45	20
1,2-Dibromo-3-Chloropropane	0.227	0.237		4.41	20
1,2,4-Trichlorobenzene	1.085	1.121		3.32	20
1,2,3-Trichlorobenzene	1.093	1.100		0.64	20
1,2-Dichloroethane-d4	0.603	0.607		0.66	20
Dibromofluoromethane	0.307	0.332		8.14	20
Toluene-d8	1.158	1.204		3.97	20
4-Bromofluorobenzene	0.435	0.468		7.59	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: MSVOA_X Calibration Date/Time: 04/29/2023 11:44

Lab File ID: VX035415.D Init. Calib. Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.529	0.492		-6.99	20
Chloromethane	0.481	0.393	0.1	-18.3	20
Vinyl Chloride	0.483	0.421		-12.84	20
Bromomethane	0.321	0.275		-14.33	20
Chloroethane	0.282	0.247		-12.41	20
Trichlorofluoromethane	0.755	0.697		-7.68	20
1,1,2-Trichlorotrifluoroethane	0.504	0.472		-6.35	20
1,1-Dichloroethene	0.486	0.445		-8.44	20
Acetone	0.262	0.227		-13.36	20
Carbon Disulfide	1.164	1.041		-10.57	20
Methyl tert-butyl Ether	1.666	1.542		-7.44	20
Methyl Acetate	1.013	0.838		-17.27	20
Methylene Chloride	0.601	0.502		-16.47	20
trans-1,2-Dichloroethene	0.527	0.473		-10.25	20
1,1-Dichloroethane	0.953	0.877	0.1	-7.97	20
Cyclohexane	0.856	0.764		-10.75	20
2-Butanone	0.382	0.304		-20.42	20
Carbon Tetrachloride	0.455	0.461		1.32	20
cis-1,2-Dichloroethene	0.620	0.572		-7.74	20
Bromochloromethane	0.406	0.385		-5.17	20
Chloroform	0.962	0.904		-6.03	20
1,1,1-Trichloroethane	0.843	0.810		-3.91	20
Methylcyclohexane	0.583	0.547		-6.18	20
Benzene	1.375	1.268		-7.78	20
1,2-Dichloroethane	0.490	0.452		-7.76	20
Trichloroethene	0.379	0.360		-5.01	20
1,2-Dichloropropane	0.347	0.330		-4.9	20
Bromodichloromethane	0.438	0.439		0.23	20
4-Methyl-2-Pentanone	0.452	0.378		-16.37	20
Toluene	0.871	0.810		-7	20
t-1,3-Dichloropropene	0.458	0.482		5.24	20
cis-1,3-Dichloropropene	0.518	0.535		3.28	20
1,1,2-Trichloroethane	0.347	0.323		-6.92	20
2-Hexanone	0.339	0.285		-15.93	20
Dibromochloromethane	0.333	0.344		3.3	20
1,2-Dibromoethane	0.358	0.337		-5.87	20
Tetrachloroethene	0.383	0.364		-4.96	20
Chlorobenzene	1.082	1.014	0.3	-6.28	20
Ethyl Benzene	1.873	1.783		-4.8	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: MSVOA_X Calibration Date/Time: 04/29/2023 11:44

Lab File ID: VX035415.D Init. Calib. Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.718	0.685		-4.6	20
o-Xylene	0.704	0.675		-4.12	20
Styrene	1.141	1.115		-2.28	20
Bromoform	0.262	0.276	0.1	5.34	20
Isopropylbenzene	3.655	3.586		-1.89	20
1,1,2,2-Tetrachloroethane	1.134	1.024	0.3	-9.7	20
1,3-Dichlorobenzene	1.727	1.660		-3.88	20
1,4-Dichlorobenzene	1.810	1.646		-9.06	20
1,2-Dichlorobenzene	1.727	1.603		-7.18	20
1,2-Dibromo-3-Chloropropane	0.227	0.216		-4.85	20
1,2,4-Trichlorobenzene	1.085	1.064		-1.93	20
1,2,3-Trichlorobenzene	1.093	1.028		-5.95	20
1,2-Dichloroethane-d4	0.603	0.499		-17.25	20
Dibromofluoromethane	0.307	0.279		-9.12	20
Toluene-d8	1.158	1.006		-13.13	20
4-Bromofluorobenzene	0.435	0.378		-13.1	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH
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Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	O2495	**OrderDate:**	4/25/2023 3:22:44 PM
Client:	GEI Consultants, Inc., P.C.	**Project:**	Ferry Point
Contact:	Stacey Ng	**Location:**	N11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O2495-01	**PZ-01**	**Water**			**04/25/23**			**04/25/23**
			SVOC-TCL BNA -20	8270E		04/26/23	04/28/23	
O2495-03	**PZ-02**	**Water**			**04/25/23**			**04/25/23**
			SVOC-TCL BNA -20	8270E		04/26/23	05/01/23	
O2495-05	**GMW-11**	**Water**			**04/25/23**			**04/25/23**
			SVOC-TCL BNA -20	8270E		04/26/23	05/01/23	
O2495-07	**GMW-X**	**Water**			**04/25/23**			**04/25/23**
			SVOC-TCL BNA -20	8270E		04/26/23	04/28/23	
O2495-09	**GMW-5**	**Water**			**04/25/23**			**04/25/23**
			SVOC-TCL BNA -20	8270E		04/26/23	04/27/23	

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Hit Summary Sheet
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Sample ID	Client ID		Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**PZ-01**								
O2495-01	PZ-01	WATER	1-Docosene	*	8.700	J	0	0	ug/L
O2495-01	PZ-01	WATER	Benzophenone	*	2.300	J	0	0	ug/L
O2495-01	PZ-01	WATER	Hexadecane	*	3.500	J	0	0	ug/L
O2495-01	PZ-01	WATER	n-Hexadecanoic acid	*	16.900	J	0	0	ug/L
O2495-01	PZ-01	WATER	Octadecanoic acid	*	28.500	J	0	0	ug/L
O2495-01	PZ-01	WATER	Supraene	*	2.700	J	0	0	ug/L
O2495-01	PZ-01	WATER	unknown16.233	*	2.500	J	0	0	ug/L
			Total Tics :		**65.10**				
			Total Concentration:		**65.10**				
Client ID :	**PZ-02**								
O2495-03	PZ-02	WATER	1-Tetracosene	*	5.500	J	0	0	ug/L
O2495-03	PZ-02	WATER	3,5-Dimethoxy-4-hydroxycinnam	*	2.300	J	0	0	ug/L
O2495-03	PZ-02	WATER	3-Eicosene, (E)-	*	4.800	J	0	0	ug/L
O2495-03	PZ-02	WATER	Benzophenone	*	7.600	J	0	0	ug/L
O2495-03	PZ-02	WATER	Eicosane	*	3.800	J	0	0	ug/L
O2495-03	PZ-02	WATER	Eicosane, 7-hexyl-	*	6.300	J	0	0	ug/L
O2495-03	PZ-02	WATER	Hexacosane	*	6.500	J	0	0	ug/L
O2495-03	PZ-02	WATER	n-Hexadecanoic acid	*	34.200	J	0	0	ug/L
O2495-03	PZ-02	WATER	Nonadecane	*	5.200	J	0	0	ug/L
O2495-03	PZ-02	WATER	Octadecane, 2-methyl-	*	5.400	J	0	0	ug/L
O2495-03	PZ-02	WATER	Octadecanoic acid	*	21.300	J	0	0	ug/L
O2495-03	PZ-02	WATER	Pentadecanoic acid	*	61.600	J	0	0	ug/L
O2495-03	PZ-02	WATER	unknown7.451	*	3.900	J	0	0	ug/L
			Total Tics :		**168.40**				
			Total Concentration:		**168.40**				
Client ID :	**GMW-11**								
O2495-05	GMW-11	WATER	Naphthalene		11.800		1.7	5.1	ug/L
O2495-05	GMW-11	WATER	Carbazole		2.700	J	1.7	5.1	ug/L
			Total Svoc :		**14.50**				
O2495-05	GMW-11	WATER	(+)-2-Bornanone	*	2.200	J	0	0	ug/L
O2495-05	GMW-11	WATER	Benzophenone	*	8.900	J	0	0	ug/L
O2495-05	GMW-11	WATER	n-Hexadecanoic acid	*	8.000	J	0	0	ug/L
O2495-05	GMW-11	WATER	Octadecanoic acid	*	9.300	J	0	0	ug/L
O2495-05	GMW-11	WATER	Pentadecane	*	2.300	J	0	0	ug/L
O2495-05	GMW-11	WATER	Squalene	*	2.300	J	0	0	ug/L
O2495-05	GMW-11	WATER	Trifluoroacetoxy hexadecane	*	5.300	J	0	0	ug/L
			Total Tics :		**38.30**				
			Total Concentration:		**52.80**				

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Hit Summary Sheet
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Sample ID	Client ID		Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**GMW-X**								
O2495-07	GMW-X	WATER	Naphthalene		11.600		1.7	5.1	ug/L
O2495-07	GMW-X	WATER	Carbazole		3.000	J	1.7	5.1	ug/L
			Total Svoc :			**14.60**			
O2495-07	GMW-X	WATER	Dehydroabietic acid	*	3.300	J	0	0	ug/L
O2495-07	GMW-X	WATER	Benzophenone	*	8.300	J	0	0	ug/L
O2495-07	GMW-X	WATER	n-Hexadecanoic acid	*	13.200	J	0	0	ug/L
O2495-07	GMW-X	WATER	Octadecanoic acid	*	8.300	J	0	0	ug/L
			Total Tics :			**33.10**			
			Total Concentration:			**47.70**			
Client ID :	**GMW-5**								
O2495-09	GMW-5	WATER	Benzophenone	*	6.500	J	0	0	ug/L
O2495-09	GMW-5	WATER	n-Hexadecanoic acid	*	14.700	J	0	0	ug/L
O2495-09	GMW-5	WATER	Octadecanoic acid	*	24.400	J	0	0	ug/L
			Total Tics :			**45.60**			
			Total Concentration:			**45.60**			

SAMPLE DATA

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01	SDG No.:	O2495
Lab Sample ID:	O2495-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133122.D	1	04/26/23 09:15	04/28/23 14:26	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01	SDG No.:	O2495
Lab Sample ID:	O2495-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133122.D	1	04/26/23 09:15	04/28/23 14:26	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01	SDG No.:	O2495
Lab Sample ID:	O2495-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133122.D	1	04/26/23 09:15	04/28/23 14:26	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	54.1		10 - 139	36%	SPK: 150
13127-88-3	Phenol-d6	32.0		10 - 134	21%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.8		49 - 133	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.5		52 - 132	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		45 - 141	80%	SPK: 150
1718-51-0	Terphenyl-d14	87.4		45 - 142	87%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	167000	6.734			
1146-65-2	Naphthalene-d8	669000	8.016			
15067-26-2	Acenaphthene-d10	342000	9.769			
1517-22-2	Phenanthrene-d10	610000	11.251			
1719-03-5	Chrysene-d12	347000	13.88			
1520-96-3	Perylene-d12	351000	15.304			
TENTATIVE IDENTIFIED COMPOUNDS						
000119-61-9	Benzophenone	2.30	J		10.5	ug/L
000057-10-3	n-Hexadecanoic acid	16.9	J		11.8	ug/L
000057-11-4	Octadecanoic acid	28.5	J		12.6	ug/L
001599-67-3	1-Docosene	8.70	J		14.5	ug/L
007683-64-9	Supraene	2.70	J		14.7	ug/L
000544-76-3	Hexadecane	3.50	J		15.7	ug/L
	unknown16.233	2.50	J		16.2	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01	SDG No.:	O2495
Lab Sample ID:	O2495-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133122.D	1	04/26/23 09:15	04/28/23 14:26	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02	SDG No.:	O2495
Lab Sample ID:	O2495-03	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133150.D	1	04/26/23 09:15	05/01/23 12:16	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.1	U	3.30	10.1	ug/L
108-95-2	Phenol	5.10	U	1.50	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.10	U	1.70	5.10	ug/L
95-57-8	2-Chlorophenol	5.10	U	1.40	5.10	ug/L
95-48-7	2-Methylphenol	5.10	U	2.10	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.10	U	2.30	5.10	ug/L
98-86-2	Acetophenone	5.10	U	1.80	5.10	ug/L
65794-96-9	3+4-Methylphenols	10.1	U	2.20	10.1	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.10	U	1.70	5.10	ug/L
98-95-3	Nitrobenzene	5.10	U	1.70	5.10	ug/L
78-59-1	Isophorone	5.10	U	1.70	5.10	ug/L
88-75-5	2-Nitrophenol	5.10	U	2.40	5.10	ug/L
105-67-9	2,4-Dimethylphenol	5.10	U	3.00	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.10	U	2.10	5.10	ug/L
120-83-2	2,4-Dichlorophenol	5.10	U	1.70	5.10	ug/L
91-20-3	Naphthalene	5.10	U	1.70	5.10	ug/L
106-47-8	4-Chloroaniline	5.10	U	2.60	5.10	ug/L
87-68-3	Hexachlorobutadiene	5.10	U	1.90	5.10	ug/L
105-60-2	Caprolactam	10.1	U	3.50	10.1	ug/L
59-50-7	4-Chloro-3-methylphenol	5.10	U	1.80	5.10	ug/L
91-57-6	2-Methylnaphthalene	5.10	U	2.30	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	10.1	U	5.80	10.1	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	1.50	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	5.10	U	1.60	5.10	ug/L
92-52-4	1,1-Biphenyl	5.10	U	1.80	5.10	ug/L
91-58-7	2-Chloronaphthalene	5.10	U	1.60	5.10	ug/L
88-74-4	2-Nitroaniline	5.10	U	2.40	5.10	ug/L
131-11-3	Dimethylphthalate	5.10	U	1.90	5.10	ug/L
208-96-8	Acenaphthylene	5.10	U	2.20	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	5.10	U	2.10	5.10	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02	SDG No.:	O2495
Lab Sample ID:	O2495-03	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133150.D	1	04/26/23 09:15	05/01/23 12:16	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.10	U	2.40	5.10	ug/L
83-32-9	Acenaphthene	5.10	U	1.70	5.10	ug/L
51-28-5	2,4-Dinitrophenol	10.1	U	5.50	10.1	ug/L
100-02-7	4-Nitrophenol	10.1	U	2.80	10.1	ug/L
132-64-9	Dibenzofuran	5.10	U	1.60	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	5.10	U	2.60	5.10	ug/L
84-66-2	Diethylphthalate	5.10	U	2.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.10	U	2.20	5.10	ug/L
86-73-7	Fluorene	5.10	U	2.10	5.10	ug/L
100-01-6	4-Nitroaniline	5.10	U	2.40	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.1	U	1.80	10.1	ug/L
86-30-6	n-Nitrosodiphenylamine	5.10	U	2.00	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	5.10	U	2.00	5.10	ug/L
118-74-1	Hexachlorobenzene	5.10	U	1.90	5.10	ug/L
1912-24-9	Atrazine	5.10	U	3.50	5.10	ug/L
87-86-5	Pentachlorophenol	10.1	U	2.60	10.1	ug/L
85-01-8	Phenanthrene	5.10	U	2.00	5.10	ug/L
120-12-7	Anthracene	5.10	U	2.30	5.10	ug/L
86-74-8	Carbazole	5.10	U	1.70	5.10	ug/L
84-74-2	Di-n-butylphthalate	5.10	U	2.40	5.10	ug/L
206-44-0	Fluoranthene	5.10	U	2.10	5.10	ug/L
129-00-0	Pyrene	5.10	U	1.90	5.10	ug/L
85-68-7	Butylbenzylphthalate	5.10	U	2.80	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	10.1	U	5.40	10.1	ug/L
56-55-3	Benzo(a)anthracene	5.10	U	1.50	5.10	ug/L
218-01-9	Chrysene	5.10	U	1.60	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.10	U	3.00	5.10	ug/L
117-84-0	Di-n-octyl phthalate	10.1	U	3.20	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	5.10	U	1.50	5.10	ug/L
207-08-9	Benzo(k)fluoranthene	5.10	U	1.90	5.10	ug/L
50-32-8	Benzo(a)pyrene	5.10	U	2.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.10	U	2.10	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.10	U	2.00	5.10	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02	SDG No.:	O2495
Lab Sample ID:	O2495-03	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133150.D	1	04/26/23 09:15	05/01/23 12:16	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.10	U	1.90	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.10	U	2.10	5.10	ug/L
123-91-1	1,4-Dioxane	5.10	U	2.50	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.10	U	1.30	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	55.0		10 - 139	37%	SPK: 150
13127-88-3	Phenol-d6	32.4		10 - 134	22%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.4		49 - 133	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.1		52 - 132	78%	SPK: 100
118-79-6	2,4,6-Tribromophenol	113		45 - 141	75%	SPK: 150
1718-51-0	Terphenyl-d14	79.4		45 - 142	79%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	199000	6.728			
1146-65-2	Naphthalene-d8	807000	8.016			
15067-26-2	Acenaphthene-d10	429000	9.769			
1517-22-2	Phenanthrene-d10	766000	11.251			
1719-03-5	Chrysene-d12	409000	13.88			
1520-96-3	Perylene-d12	407000	15.304			
TENTATIVE IDENTIFIED COMPOUNDS						
	unknown7.451	3.90	J		7.45	ug/L
000119-61-9	Benzophenone	7.60	J		10.5	ug/L
000057-10-3	n-Hexadecanoic acid	34.2	J		11.8	ug/L
087345-53-7	3,5-Dimethoxy-4-hydroxycinnamalde	2.30	J		11.9	ug/L
000057-11-4	Octadecanoic acid	21.3	J		12.6	ug/L
001002-84-2	Pentadecanoic acid	61.6	J		12.6	ug/L
000629-92-5	Nonadecane	5.20	J		13.5	ug/L
074685-33-9	3-Eicosene, (E)-	4.80	J		13.8	ug/L
055333-99-8	Eicosane, 7-hexyl-	6.30	J		14.1	ug/L
010192-32-2	1-Tetracosene	5.50	J		14.5	ug/L
000630-01-3	Hexacosane	6.50	J		14.6	ug/L
001560-88-9	Octadecane, 2-methyl-	5.40	J		15.1	ug/L
000112-95-8	Eicosane	3.80	J		15.7	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02	SDG No.:	O2495
Lab Sample ID:	O2495-03	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133150.D	1	04/26/23 09:15	05/01/23 12:16	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11	SDG No.:	O2495
Lab Sample ID:	O2495-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133160.D	1	04/26/23 09:15	05/01/23 17:34	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.1	U	3.30	10.1	ug/L
108-95-2	Phenol	5.10	U	1.50	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.10	U	1.70	5.10	ug/L
95-57-8	2-Chlorophenol	5.10	U	1.40	5.10	ug/L
95-48-7	2-Methylphenol	5.10	U	2.10	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.10	U	2.30	5.10	ug/L
98-86-2	Acetophenone	5.10	U	1.80	5.10	ug/L
65794-96-9	3+4-Methylphenols	10.1	U	2.20	10.1	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.10	U	1.70	5.10	ug/L
98-95-3	Nitrobenzene	5.10	U	1.70	5.10	ug/L
78-59-1	Isophorone	5.10	U	1.70	5.10	ug/L
88-75-5	2-Nitrophenol	5.10	U	2.40	5.10	ug/L
105-67-9	2,4-Dimethylphenol	5.10	U	3.00	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.10	U	2.10	5.10	ug/L
120-83-2	2,4-Dichlorophenol	5.10	U	1.70	5.10	ug/L
91-20-3	Naphthalene	11.8		1.70	5.10	ug/L
106-47-8	4-Chloroaniline	5.10	U	2.60	5.10	ug/L
87-68-3	Hexachlorobutadiene	5.10	U	1.90	5.10	ug/L
105-60-2	Caprolactam	10.1	U	3.50	10.1	ug/L
59-50-7	4-Chloro-3-methylphenol	5.10	U	1.80	5.10	ug/L
91-57-6	2-Methylnaphthalene	5.10	U	2.30	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	10.1	U	5.80	10.1	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	1.50	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	5.10	U	1.60	5.10	ug/L
92-52-4	1,1-Biphenyl	5.10	U	1.80	5.10	ug/L
91-58-7	2-Chloronaphthalene	5.10	U	1.60	5.10	ug/L
88-74-4	2-Nitroaniline	5.10	U	2.40	5.10	ug/L
131-11-3	Dimethylphthalate	5.10	U	1.90	5.10	ug/L
208-96-8	Acenaphthylene	5.10	U	2.20	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	5.10	U	2.10	5.10	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11	SDG No.:	O2495
Lab Sample ID:	O2495-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133160.D	1	04/26/23 09:15	05/01/23 17:34	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.10	U	2.40	5.10	ug/L
83-32-9	Acenaphthene	5.10	U	1.70	5.10	ug/L
51-28-5	2,4-Dinitrophenol	10.1	U	5.50	10.1	ug/L
100-02-7	4-Nitrophenol	10.1	U	2.80	10.1	ug/L
132-64-9	Dibenzofuran	5.10	U	1.60	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	5.10	U	2.60	5.10	ug/L
84-66-2	Diethylphthalate	5.10	U	2.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.10	U	2.20	5.10	ug/L
86-73-7	Fluorene	5.10	U	2.10	5.10	ug/L
100-01-6	4-Nitroaniline	5.10	U	2.40	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.1	U	1.80	10.1	ug/L
86-30-6	n-Nitrosodiphenylamine	5.10	U	2.00	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	5.10	U	2.00	5.10	ug/L
118-74-1	Hexachlorobenzene	5.10	U	1.90	5.10	ug/L
1912-24-9	Atrazine	5.10	U	3.50	5.10	ug/L
87-86-5	Pentachlorophenol	10.1	U	2.60	10.1	ug/L
85-01-8	Phenanthrene	5.10	U	2.00	5.10	ug/L
120-12-7	Anthracene	5.10	U	2.30	5.10	ug/L
86-74-8	Carbazole	2.70	J	1.70	5.10	ug/L
84-74-2	Di-n-butylphthalate	5.10	U	2.40	5.10	ug/L
206-44-0	Fluoranthene	5.10	U	2.10	5.10	ug/L
129-00-0	Pyrene	5.10	U	1.90	5.10	ug/L
85-68-7	Butylbenzylphthalate	5.10	U	2.80	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	10.1	U	5.40	10.1	ug/L
56-55-3	Benzo(a)anthracene	5.10	U	1.50	5.10	ug/L
218-01-9	Chrysene	5.10	U	1.60	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.10	U	3.00	5.10	ug/L
117-84-0	Di-n-octyl phthalate	10.1	U	3.20	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	5.10	U	1.50	5.10	ug/L
207-08-9	Benzo(k)fluoranthene	5.10	U	1.90	5.10	ug/L
50-32-8	Benzo(a)pyrene	5.10	U	2.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.10	U	2.10	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.10	U	2.00	5.10	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11	SDG No.:	O2495
Lab Sample ID:	O2495-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133160.D	1	04/26/23 09:15	05/01/23 17:34	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.10	U	1.90	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.10	U	2.10	5.10	ug/L
123-91-1	1,4-Dioxane	5.10	U	2.50	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.10	U	1.30	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	56.7		10 - 139	38%	SPK: 150
13127-88-3	Phenol-d6	33.9		10 - 134	23%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.7		49 - 133	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.5		52 - 132	80%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		45 - 141	80%	SPK: 150
1718-51-0	Terphenyl-d14	93.6		45 - 142	94%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	183000	6.728			
1146-65-2	Naphthalene-d8	760000	8.01			
15067-26-2	Acenaphthene-d10	401000	9.763			
1517-22-2	Phenanthrene-d10	730000	11.245			
1719-03-5	Chrysene-d12	377000	13.88			
1520-96-3	Perylene-d12	370000	15.298			
TENTATIVE IDENTIFIED COMPOUNDS						
000464-49-3	(+)-2-Bornanone	2.20	J		7.76	ug/L
000119-61-9	Benzophenone	8.90	J		10.5	ug/L
000057-10-3	n-Hexadecanoic acid	8.00	J		11.8	ug/L
000057-11-4	Octadecanoic acid	9.30	J		12.6	ug/L
000629-62-9	Pentadecane	2.30	J		13.7	ug/L
006222-03-3	Trifluoroacetoxy hexadecane	5.30	J		13.8	ug/L
000111-02-4	Squalene	2.30	J		14.7	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11	SDG No.:	O2495
Lab Sample ID:	O2495-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133160.D	1	04/26/23 09:15	05/01/23 17:34	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-X	SDG No.:	O2495
Lab Sample ID:	O2495-07	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133136.D	1	04/26/23 09:15	04/28/23 22:58	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.1	U	3.30	10.1	ug/L
108-95-2	Phenol	5.10	U	1.50	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.10	U	1.70	5.10	ug/L
95-57-8	2-Chlorophenol	5.10	U	1.40	5.10	ug/L
95-48-7	2-Methylphenol	5.10	U	2.10	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.10	U	2.30	5.10	ug/L
98-86-2	Acetophenone	5.10	U	1.80	5.10	ug/L
65794-96-9	3+4-Methylphenols	10.1	U	2.20	10.1	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.10	U	1.70	5.10	ug/L
98-95-3	Nitrobenzene	5.10	U	1.70	5.10	ug/L
78-59-1	Isophorone	5.10	U	1.70	5.10	ug/L
88-75-5	2-Nitrophenol	5.10	U	2.40	5.10	ug/L
105-67-9	2,4-Dimethylphenol	5.10	U	3.00	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.10	U	2.10	5.10	ug/L
120-83-2	2,4-Dichlorophenol	5.10	U	1.70	5.10	ug/L
91-20-3	Naphthalene	11.6		1.70	5.10	ug/L
106-47-8	4-Chloroaniline	5.10	U	2.60	5.10	ug/L
87-68-3	Hexachlorobutadiene	5.10	U	1.90	5.10	ug/L
105-60-2	Caprolactam	10.1	U	3.50	10.1	ug/L
59-50-7	4-Chloro-3-methylphenol	5.10	U	1.80	5.10	ug/L
91-57-6	2-Methylnaphthalene	5.10	U	2.30	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	10.1	U	5.80	10.1	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	1.50	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	5.10	U	1.60	5.10	ug/L
92-52-4	1,1-Biphenyl	5.10	U	1.80	5.10	ug/L
91-58-7	2-Chloronaphthalene	5.10	U	1.60	5.10	ug/L
88-74-4	2-Nitroaniline	5.10	U	2.40	5.10	ug/L
131-11-3	Dimethylphthalate	5.10	U	1.90	5.10	ug/L
208-96-8	Acenaphthylene	5.10	U	2.20	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	5.10	U	2.10	5.10	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-X	SDG No.:	O2495
Lab Sample ID:	O2495-07	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133136.D	1	04/26/23 09:15	04/28/23 22:58	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.10	U	2.40	5.10	ug/L
83-32-9	Acenaphthene	5.10	U	1.70	5.10	ug/L
51-28-5	2,4-Dinitrophenol	10.1	U	5.50	10.1	ug/L
100-02-7	4-Nitrophenol	10.1	U	2.80	10.1	ug/L
132-64-9	Dibenzofuran	5.10	U	1.60	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	5.10	U	2.60	5.10	ug/L
84-66-2	Diethylphthalate	5.10	U	2.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.10	U	2.20	5.10	ug/L
86-73-7	Fluorene	5.10	U	2.10	5.10	ug/L
100-01-6	4-Nitroaniline	5.10	U	2.40	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.1	U	1.80	10.1	ug/L
86-30-6	n-Nitrosodiphenylamine	5.10	U	2.00	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	5.10	U	2.00	5.10	ug/L
118-74-1	Hexachlorobenzene	5.10	U	1.90	5.10	ug/L
1912-24-9	Atrazine	5.10	U	3.50	5.10	ug/L
87-86-5	Pentachlorophenol	10.1	U	2.60	10.1	ug/L
85-01-8	Phenanthrene	5.10	U	2.00	5.10	ug/L
120-12-7	Anthracene	5.10	U	2.30	5.10	ug/L
86-74-8	Carbazole	3.00	J	1.70	5.10	ug/L
84-74-2	Di-n-butylphthalate	5.10	U	2.40	5.10	ug/L
206-44-0	Fluoranthene	5.10	U	2.10	5.10	ug/L
129-00-0	Pyrene	5.10	U	1.90	5.10	ug/L
85-68-7	Butylbenzylphthalate	5.10	U	2.80	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	10.1	U	5.40	10.1	ug/L
56-55-3	Benzo(a)anthracene	5.10	U	1.50	5.10	ug/L
218-01-9	Chrysene	5.10	U	1.60	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.10	U	3.00	5.10	ug/L
117-84-0	Di-n-octyl phthalate	10.1	U	3.20	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	5.10	U	1.50	5.10	ug/L
207-08-9	Benzo(k)fluoranthene	5.10	U	1.90	5.10	ug/L
50-32-8	Benzo(a)pyrene	5.10	U	2.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.10	U	2.10	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.10	U	2.00	5.10	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-X	SDG No.:	O2495
Lab Sample ID:	O2495-07	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133136.D	1	04/26/23 09:15	04/28/23 22:58	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.10	U	1.90	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.10	U	2.10	5.10	ug/L
123-91-1	1,4-Dioxane	5.10	U	2.50	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.10	U	1.30	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	53.5		10 - 139	36%	SPK: 150
13127-88-3	Phenol-d6	31.8		10 - 134	21%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.5		49 - 133	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.0		52 - 132	81%	SPK: 100
118-79-6	2,4,6-Tribromophenol	118		45 - 141	79%	SPK: 150
1718-51-0	Terphenyl-d14	68.5		45 - 142	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	179000	6.734			
1146-65-2	Naphthalene-d8	741000	8.016			
15067-26-2	Acenaphthene-d10	377000	9.769			
1517-22-2	Phenanthrene-d10	677000	11.251			
1719-03-5	Chrysene-d12	502000	13.88			
1520-96-3	Perylene-d12	380000	15.304			
TENTATIVE IDENTIFIED COMPOUNDS						
000119-61-9	Benzophenone	8.30	J		10.5	ug/L
000057-10-3	n-Hexadecanoic acid	13.2	J		11.8	ug/L
000057-11-4	Octadecanoic acid	8.30	J		12.6	ug/L
001740-19-8	Dehydroabietic acid	3.30	J		13.7	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-5	SDG No.:	O2495
Lab Sample ID:	O2495-09	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133099.D	1	04/26/23 09:15	04/27/23 14:50	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.2	U	3.30	10.2	ug/L
108-95-2	Phenol	5.10	U	1.50	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.10	U	1.70	5.10	ug/L
95-57-8	2-Chlorophenol	5.10	U	1.40	5.10	ug/L
95-48-7	2-Methylphenol	5.10	U	2.10	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.10	U	2.30	5.10	ug/L
98-86-2	Acetophenone	5.10	U	1.80	5.10	ug/L
65794-96-9	3+4-Methylphenols	10.2	U	2.20	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.60	U	2.00	2.60	ug/L
67-72-1	Hexachloroethane	5.10	U	1.70	5.10	ug/L
98-95-3	Nitrobenzene	5.10	U	1.80	5.10	ug/L
78-59-1	Isophorone	5.10	U	1.70	5.10	ug/L
88-75-5	2-Nitrophenol	5.10	U	2.40	5.10	ug/L
105-67-9	2,4-Dimethylphenol	5.10	U	3.00	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.10	U	2.10	5.10	ug/L
120-83-2	2,4-Dichlorophenol	5.10	U	1.70	5.10	ug/L
91-20-3	Naphthalene	5.10	U	1.70	5.10	ug/L
106-47-8	4-Chloroaniline	5.10	U	2.60	5.10	ug/L
87-68-3	Hexachlorobutadiene	5.10	U	2.00	5.10	ug/L
105-60-2	Caprolactam	10.2	U	3.50	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	5.10	U	1.80	5.10	ug/L
91-57-6	2-Methylnaphthalene	5.10	U	2.30	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	10.2	U	5.90	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	1.60	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	5.10	U	1.60	5.10	ug/L
92-52-4	1,1-Biphenyl	5.10	U	1.80	5.10	ug/L
91-58-7	2-Chloronaphthalene	5.10	U	1.60	5.10	ug/L
88-74-4	2-Nitroaniline	5.10	U	2.40	5.10	ug/L
131-11-3	Dimethylphthalate	5.10	U	1.90	5.10	ug/L
208-96-8	Acenaphthylene	5.10	U	2.20	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	5.10	U	2.10	5.10	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-5	SDG No.:	O2495
Lab Sample ID:	O2495-09	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133099.D	1	04/26/23 09:15	04/27/23 14:50	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.10	U	2.40	5.10	ug/L
83-32-9	Acenaphthene	5.10	U	1.80	5.10	ug/L
51-28-5	2,4-Dinitrophenol	10.2	U	5.60	10.2	ug/L
100-02-7	4-Nitrophenol	10.2	U	2.90	10.2	ug/L
132-64-9	Dibenzofuran	5.10	U	1.60	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	5.10	U	2.60	5.10	ug/L
84-66-2	Diethylphthalate	5.10	U	2.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.10	U	2.30	5.10	ug/L
86-73-7	Fluorene	5.10	U	2.10	5.10	ug/L
100-01-6	4-Nitroaniline	5.10	U	2.40	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.2	U	1.80	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	5.10	U	2.00	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	5.10	U	2.00	5.10	ug/L
118-74-1	Hexachlorobenzene	5.10	U	1.90	5.10	ug/L
1912-24-9	Atrazine	5.10	U	3.60	5.10	ug/L
87-86-5	Pentachlorophenol	10.2	U	2.60	10.2	ug/L
85-01-8	Phenanthrene	5.10	U	2.00	5.10	ug/L
120-12-7	Anthracene	5.10	U	2.30	5.10	ug/L
86-74-8	Carbazole	5.10	U	1.70	5.10	ug/L
84-74-2	Di-n-butylphthalate	5.10	U	2.40	5.10	ug/L
206-44-0	Fluoranthene	5.10	U	2.10	5.10	ug/L
129-00-0	Pyrene	5.10	U	1.90	5.10	ug/L
85-68-7	Butylbenzylphthalate	5.10	U	2.90	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	10.2	U	5.50	10.2	ug/L
56-55-3	Benzo(a)anthracene	5.10	U	1.50	5.10	ug/L
218-01-9	Chrysene	5.10	U	1.60	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.10	U	3.00	5.10	ug/L
117-84-0	Di-n-octyl phthalate	10.2	U	3.20	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	5.10	U	1.50	5.10	ug/L
207-08-9	Benzo(k)fluoranthene	5.10	U	1.90	5.10	ug/L
50-32-8	Benzo(a)pyrene	5.10	U	2.80	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.10	U	2.10	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.10	U	2.00	5.10	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-5	SDG No.:	O2495
Lab Sample ID:	O2495-09	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133099.D	1	04/26/23 09:15	04/27/23 14:50	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.10	U	2.00	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.10	U	2.10	5.10	ug/L
123-91-1	1,4-Dioxane	5.10	U	2.50	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.10	U	1.30	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	54.5		10 - 139	36%	SPK: 150
13127-88-3	Phenol-d6	34.0		10 - 134	23%	SPK: 150
4165-60-0	Nitrobenzene-d5	76.8		49 - 133	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	79.6		52 - 132	80%	SPK: 100
118-79-6	2,4,6-Tribromophenol	123		45 - 141	82%	SPK: 150
1718-51-0	Terphenyl-d14	77.1		45 - 142	77%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	226000	6.734			
1146-65-2	Naphthalene-d8	938000	8.016			
15067-26-2	Acenaphthene-d10	495000	9.769			
1517-22-2	Phenanthrene-d10	866000	11.251			
1719-03-5	Chrysene-d12	522000	13.886			
1520-96-3	Perylene-d12	439000	15.304			
TENTATIVE IDENTIFIED COMPOUNDS						
000119-61-9	Benzophenone	6.50	J		10.5	ug/L
000057-10-3	n-Hexadecanoic acid	14.7	J		11.8	ug/L
000057-11-4	Octadecanoic acid	24.4	J		12.6	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Surrogate Summary

SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
O2495-01	PZ-01	2-Fluorophenol	150	54.1	36		10	139
		Phenol-d6	150	32.0	21		10	134
		Nitrobenzene-d5	100	82.8	83		49	133
		2-Fluorobiphenyl	100	87.5	87		52	132
		2,4,6-Tribromophenol	150	120	80		45	141
		Terphenyl-d14	100	87.4	87		45	142
O2495-03	PZ-02	2-Fluorophenol	150	55.0	37		10	139
		Phenol-d6	150	32.4	22		10	134
		Nitrobenzene-d5	100	79.4	79		49	133
		2-Fluorobiphenyl	100	78.1	78		52	132
		2,4,6-Tribromophenol	150	113	75		45	141
		Terphenyl-d14	100	79.4	79		45	142
O2495-05	GMW-11	2-Fluorophenol	150	56.7	38		10	139
		Phenol-d6	150	33.9	23		10	134
		Nitrobenzene-d5	100	82.7	83		49	133
		2-Fluorobiphenyl	100	80.5	80		52	132
		2,4,6-Tribromophenol	150	120	80		45	141
		Terphenyl-d14	100	93.6	94		45	142
O2495-07	GMW-X	2-Fluorophenol	150	53.5	36		10	139
		Phenol-d6	150	31.8	21		10	134
		Nitrobenzene-d5	100	79.5	79		49	133
		2-Fluorobiphenyl	100	81.0	81		52	132
		2,4,6-Tribromophenol	150	118	79		45	141
		Terphenyl-d14	100	68.5	68		45	142
O2495-09	GMW-5	2-Fluorophenol	150	54.5	36		10	139
		Phenol-d6	150	34.0	23		10	134
		Nitrobenzene-d5	100	76.8	77		49	133
		2-Fluorobiphenyl	100	79.6	80		52	132
		2,4,6-Tribromophenol	150	123	82		45	141
		Terphenyl-d14	100	77.1	77		45	142
PB152410BL	PB152410BL	2-Fluorophenol	150	120	80		10	139
		Phenol-d6	150	118	79		10	134
		Nitrobenzene-d5	100	73.2	73		49	133
		2-Fluorobiphenyl	100	75.3	75		52	132
		2,4,6-Tribromophenol	150	117	78		45	141
		Terphenyl-d14	100	69.1	69		45	142
PB152410BS	PB152410BS	2-Fluorophenol	150	123	82		10	139
		Phenol-d6	150	119	79		10	134
		Nitrobenzene-d5	100	81.5	82		49	133
		2-Fluorobiphenyl	100	81.8	82		52	132
		2,4,6-Tribromophenol	150	127	85		45	141
		Terphenyl-d14	100	80.2	80		45	142
PB152410BSD	PB152410BSD	2-Fluorophenol	150	122	82		10	139
		Phenol-d6	150	119	79		10	134
		Nitrobenzene-d5	100	80.4	80		49	133
		2-Fluorobiphenyl	100	82.7	83		52	132
		2,4,6-Tribromophenol	150	126	84		45	141
		Terphenyl-d14	100	80.4	80		45	142

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: 8270E **DataFile:** BF133094.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB152410BS	Benzaldehyde	50	44.6	ug/L	89				21	131	
	Phenol	50	38.9	ug/L	78				66	118	
	bis(2-Chloroethyl)ether	50	41.9	ug/L	84				62	103	
	2-Chlorophenol	50	45.2	ug/L	90				70	117	
	2-Methylphenol	50	41.5	ug/L	83				69	109	
	2,2-oxybis(1-Chloropropane)	50	39.3	ug/L	79				52	103	
	Acetophenone	50	43.0	ug/L	86				60	104	
	3+4-Methylphenols	50	40.6	ug/L	81				67	106	
	N-Nitroso-di-n-propylamine	50	37.8	ug/L	76				57	107	
	Hexachloroethane	50	43.9	ug/L	88				60	105	
	Nitrobenzene	50	40.7	ug/L	81				58	106	
	Isophorone	50	39.4	ug/L	79				61	102	
	2-Nitrophenol	50	46.4	ug/L	93				70	115	
	2,4-Dimethylphenol	50	43.4	ug/L	87				67	130	
	bis(2-Chloroethoxy)methane	50	39.8	ug/L	80				58	109	
	2,4-Dichlorophenol	50	42.4	ug/L	85				66	115	
	Naphthalene	50	40.6	ug/L	81				64	107	
	4-Chloroaniline	50	23.1	ug/L	46				10	85	
	Hexachlorobutadiene	50	42.2	ug/L	84				56	102	
	Caprolactam	50	46.5	ug/L	93				47	129	
	4-Chloro-3-methylphenol	50	42.7	ug/L	85				65	114	
	2-Methylnaphthalene	50	40.0	ug/L	80				64	107	
	Hexachlorocyclopentadiene	100	90.7	ug/L	91				49	132	
	2,4,6-Trichlorophenol	50	41.8	ug/L	84				61	110	
	2,4,5-Trichlorophenol	50	39.3	ug/L	79				70	106	
	1,1-Biphenyl	50	40.7	ug/L	81				72	98	
	2-Chloronaphthalene	50	41.5	ug/L	83				59	106	
	2-Nitroaniline	50	40.6	ug/L	81				58	107	
	Dimethylphthalate	50	40.5	ug/L	81				64	103	
	Acenaphthylene	50	40.3	ug/L	81				65	108	
	2,6-Dinitrotoluene	50	42.6	ug/L	85				64	110	
	3-Nitroaniline	50	31.9	ug/L	64				28	100	
	Acenaphthene	50	44.9	ug/L	90				59	113	
	2,4-Dinitrophenol	100	100	ug/L	100				48	129	
	4-Nitrophenol	100	90.0	ug/L	90				54	119	
	Dibenzofuran	50	39.9	ug/L	80				65	106	
	2,4-Dinitrotoluene	50	45.3	ug/L	91				60	115	
	Diethylphthalate	50	40.4	ug/L	81				63	105	
	4-Chlorophenyl-phenylether	50	39.8	ug/L	80				61	104	
	Fluorene	50	40.6	ug/L	81				64	107	
	4-Nitroaniline	50	46.5	ug/L	93				57	103	
	4,6-Dinitro-2-methylphenol	50	48.2	ug/L	96				62	132	
	N-Nitrosodiphenylamine	50	39.6	ug/L	79				61	109	
	4-Bromophenyl-phenylether	50	39.6	ug/L	79				73	103	
	Hexachlorobenzene	50	43.8	ug/L	88				73	106	
	Atrazine	50	45.8	ug/L	92				52	134	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: 8270E **DataFile:** BF133094.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB152410BS	Pentachlorophenol	100	77.0	ug/L	77				65	112	
	Phenanthrene	50	40.7	ug/L	81				62	109	
	Anthracene	50	40.4	ug/L	81				65	110	
	Carbazole	50	42.7	ug/L	85				62	106	
	Di-n-butylphthalate	50	42.6	ug/L	85				64	106	
	Fluoranthene	50	42.1	ug/L	84				64	110	
	Pyrene	50	39.1	ug/L	78				71	103	
	Butylbenzylphthalate	50	46.9	ug/L	94				61	105	
	3,3-Dichlorobenzidine	50	41.6	ug/L	83				30	96	
	Benzo(a)anthracene	50	40.6	ug/L	81				62	107	
	Chrysene	50	40.0	ug/L	80				61	108	
	bis(2-Ethylhexyl)phthalate	50	42.7	ug/L	85				59	110	
	Di-n-octyl phthalate	50	49.0	ug/L	98				55	116	
	Benzo(b)fluoranthene	50	45.4	ug/L	91				64	111	
	Benzo(k)fluoranthene	50	43.2	ug/L	86				64	113	
	Benzo(a)pyrene	50	40.1	ug/L	80				72	131	
	Indeno(1,2,3-cd)pyrene	50	45.1	ug/L	90				72	105	
	Dibenz(a,h)anthracene	50	45.0	ug/L	90				63	117	
	Benzo(g,h,i)perylene	50	45.8	ug/L	92				61	120	
	1,2,4,5-Tetrachlorobenzene	50	40.5	ug/L	81				72	101	
	1,4-Dioxane	50	33.5	ug/L	67				38	125	
	2,3,4,6-Tetrachlorophenol	50	43.4	ug/L	87				63	116	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: 8270E **DataFile:** BF133095.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB152410BSD	Benzaldehyde	50	43.3	ug/L	87	3			21	131	20
	Phenol	50	38.8	ug/L	78	0			66	118	20
	bis(2-Chloroethyl)ether	50	41.0	ug/L	82	2			62	103	20
	2-Chlorophenol	50	44.3	ug/L	89	2			70	117	20
	2-Methylphenol	50	42.1	ug/L	84	1			69	109	20
	2,2-oxybis(1-Chloropropane)	50	38.4	ug/L	77	2			52	103	20
	Acetophenone	50	42.9	ug/L	86	0			60	104	20
	3+4-Methylphenols	50	41.1	ug/L	82	1			67	106	20
	N-Nitroso-di-n-propylamine	50	38.0	ug/L	76	1			57	107	20
	Hexachloroethane	50	43.5	ug/L	87	1			60	105	20
	Nitrobenzene	50	40.3	ug/L	81	1			58	106	20
	Isophorone	50	38.9	ug/L	78	1			61	102	20
	2-Nitrophenol	50	46.4	ug/L	93	0			70	115	20
	2,4-Dimethylphenol	50	43.1	ug/L	86	1			67	130	20
	bis(2-Chloroethoxy)methane	50	39.2	ug/L	78	2			58	109	20
	2,4-Dichlorophenol	50	43.0	ug/L	86	1			66	115	20
	Naphthalene	50	42.0	ug/L	84	3			64	107	20
	4-Chloroaniline	50	23.6	ug/L	47	2			10	85	20
	Hexachlorobutadiene	50	42.4	ug/L	85	0			56	102	20
	Caprolactam	50	46.9	ug/L	94	1			47	129	20
	4-Chloro-3-methylphenol	50	43.0	ug/L	86	1			65	114	20
	2-Methylnaphthalene	50	39.7	ug/L	79	1			64	107	20
	Hexachlorocyclopentadiene	100	92.6	ug/L	93	2			49	132	20
	2,4,6-Trichlorophenol	50	42.2	ug/L	84	1			61	110	20
	2,4,5-Trichlorophenol	50	40.2	ug/L	80	2			70	106	20
	1,1-Biphenyl	50	40.8	ug/L	82	0			72	98	20
	2-Chloronaphthalene	50	41.8	ug/L	84	1			59	106	20
	2-Nitroaniline	50	40.1	ug/L	80	1			58	107	20
	Dimethylphthalate	50	40.4	ug/L	81	0			64	103	20
	Acenaphthylene	50	40.5	ug/L	81	0			65	108	20
	2,6-Dinitrotoluene	50	42.3	ug/L	85	1			64	110	20
	3-Nitroaniline	50	32.0	ug/L	64	0			28	100	20
	Acenaphthene	50	45.0	ug/L	90	0			59	113	20
	2,4-Dinitrophenol	100	110	ug/L	110	10			48	129	20
	4-Nitrophenol	100	91.3	ug/L	91	1			54	119	20
	Dibenzofuran	50	39.8	ug/L	80	0			65	106	20
	2,4-Dinitrotoluene	50	45.0	ug/L	90	1			60	115	20
	Diethylphthalate	50	40.6	ug/L	81	0			63	105	20
	4-Chlorophenyl-phenylether	50	39.9	ug/L	80	0			61	104	20
	Fluorene	50	40.7	ug/L	81	0			64	107	20
	4-Nitroaniline	50	46.5	ug/L	93	0			57	103	20
	4,6-Dinitro-2-methylphenol	50	48.2	ug/L	96	0			62	132	20
	N-Nitrosodiphenylamine	50	39.9	ug/L	80	1			61	109	20
	4-Bromophenyl-phenylether	50	40.0	ug/L	80	1			73	103	20
	Hexachlorobenzene	50	43.3	ug/L	87	1			73	106	20
	Atrazine	50	46.5	ug/L	93	2			52	134	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: 8270E **DataFile:** BF133095.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB152410BSD	Pentachlorophenol	100	75.7	ug/L	76	2			65	112	20
	Phenanthrene	50	40.8	ug/L	82	0			62	109	20
	Anthracene	50	40.6	ug/L	81	0			65	110	20
	Carbazole	50	42.5	ug/L	85	0			62	106	20
	Di-n-butylphthalate	50	42.2	ug/L	84	1			64	106	20
	Fluoranthene	50	42.3	ug/L	85	0			64	110	20
	Pyrene	50	39.4	ug/L	79	1			71	103	20
	Butylbenzylphthalate	50	47.4	ug/L	95	1			61	105	20
	3,3-Dichlorobenzidine	50	42.1	ug/L	84	1			30	96	20
	Benzo(a)anthracene	50	40.5	ug/L	81	0			62	107	20
	Chrysene	50	40.2	ug/L	80	0			61	108	20
	bis(2-Ethylhexyl)phthalate	50	43.6	ug/L	87	2			59	110	20
	Di-n-octyl phthalate	50	48.6	ug/L	97	1			55	116	20
	Benzo(b)fluoranthene	50	45.6	ug/L	91	0			64	111	20
	Benzo(k)fluoranthene	50	43.4	ug/L	87	0			64	113	20
	Benzo(a)pyrene	50	40.6	ug/L	81	1			72	131	20
	Indeno(1,2,3-cd)pyrene	50	46.9	ug/L	94	4			72	105	20
	Dibenz(a,h)anthracene	50	47.1	ug/L	94	5			63	117	20
	Benzo(g,h,i)perylene	50	47.5	ug/L	95	4			61	120	20
	1,2,4,5-Tetrachlorobenzene	50	41.0	ug/L	82	1			72	101	20
	1,4-Dioxane	50	33.6	ug/L	67	0			38	125	20
	2,3,4,6-Tetrachlorophenol	50	43.5	ug/L	87	0			63	116	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB152410BL

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: BF133116.D Lab Sample ID: PB152410BL

Instrument ID: BNA_F Date Extracted: 04/26/2023

Matrix: (soil/water) Water Date Analyzed: 04/28/2023

Level: (low/med) LOW Time Analyzed: 11:18

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PZ-01	O2495-01	BF133122.D	04/28/2023
GMW-X	O2495-07	BF133136.D	04/28/2023
PZ-02	O2495-03	BF133150.D	05/01/2023
GMW-11	O2495-05	BF133160.D	05/01/2023
GMW-5	O2495-09	BF133099.D	04/27/2023
PB152410BS	PB152410BS	BF133094.D	04/27/2023
PB152410BSD	PB152410BSD	BF133095.D	04/27/2023

COMMENTS:

Form IV SV

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2495 SDG NO.: O2495

Lab File ID: BF132964.D DFTPP Injection Date: 04/21/2023

Instrument ID: BNA_F DFTPP Injection Time: 12:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.3
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	36.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	45.8
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26.3
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	13.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.9 (18.9) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF132965.D	04/21/2023	13:11
SSTDICC005	SSTDICC005	BF132966.D	04/21/2023	13:42
SSTDICC010	SSTDICC010	BF132967.D	04/21/2023	14:12
SSTDICC020	SSTDICC020	BF132968.D	04/21/2023	14:43
SSTDICCC040	SSTDICCC040	BF132969.D	04/21/2023	15:15
SSTDICC050	SSTDICC050	BF132970.D	04/21/2023	15:47
SSTDICC060	SSTDICC060	BF132971.D	04/21/2023	16:19
SSTDICC080	SSTDICC080	BF132972.D	04/21/2023	16:50

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2495 SDG NO.: O2495

Lab File ID: BF133089.D DFTPP Injection Date: 04/27/2023

Instrument ID: BNA_F DFTPP Injection Time: 09:29

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.3
68	Less than 2.0% of mass 69	0.3 (0.9) 1
69	Mass 69 relative abundance	35.8
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	45.6
197	Less than 2.0% of mass 198	1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	27
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	15.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.6 (18) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF133090.D	04/27/2023	09:59
PB152410BS	PB152410BS	BF133094.D	04/27/2023	12:15
PB152410BSD	PB152410BSD	BF133095.D	04/27/2023	12:45
GMW-5	O2495-09	BF133099.D	04/27/2023	14:50

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2495 SDG NO.: O2495

Lab File ID: BF133112.D DFTPP Injection Date: 04/28/2023

Instrument ID: BNA_F DFTPP Injection Time: 09:14

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.7
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	33.0
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	43.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	27.8
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	16.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.4 (18.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF133113.D	04/28/2023	09:45
PB152410BL	PB152410BL	BF133116.D	04/28/2023	11:18
PZ-01	O2495-01	BF133122.D	04/28/2023	14:26

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2495 SDG NO.: O2495

Lab File ID: BF133123.D DFTPP Injection Date: 04/28/2023

Instrument ID: BNA_F DFTPP Injection Time: 15:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.4
68	Less than 2.0% of mass 69	0.6 (2) 1
69	Mass 69 relative abundance	32.1
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	44.0
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	27.5
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	17.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.4 (18.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF133124.D	04/28/2023	16:17
GMW-X	O2495-07	BF133136.D	04/28/2023	22:58

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2495 SDG NO.: O2495

Lab File ID: BF133146.D DFTPP Injection Date: 05/01/2023

Instrument ID: BNA_F DFTPP Injection Time: 10:10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.9
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	34.4
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	45.9
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	26
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	14.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17 (18.7) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF133147.D	05/01/2023	10:41
PZ-02	O2495-03	BF133150.D	05/01/2023	12:16

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2495 SDG NO.: O2495

Lab File ID: BF133155.D DFTPP Injection Date: 05/01/2023

Instrument ID: BNA_F DFTPP Injection Time: 14:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.2
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	34.1
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	45.8
197	Less than 2.0% of mass 198	1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	25.4
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	13.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	15.8 (18.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF133156.D	05/01/2023	15:25
GMW-11	O2495-05	BF133160.D	05/01/2023	17:34

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/27/2023

Lab File ID: BF133090.D Time Analyzed: 09:59

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	190486	6.74	734979	8.02	380778	9.78
	UPPER LIMIT	380972	7.24	1469960	8.522	761556	10.275
	LOWER LIMIT	95243	6.24	367490	7.522	190389	9.275
	EPA SAMPLE NO.						
01	GMW-5	225876	6.73	938461	8.02	494838	9.77
02	PB152410BS	197994	6.74	795223	8.02	414621	9.78
03	PB152410BSD	191577	6.74	773308	8.02	399504	9.78

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/27/2023

Lab File ID: BF133090.D Time Analyzed: 09:59

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	697429	11.257	504844	13.898	446746	15.316
	UPPER LIMIT	1394860	11.757	1009690	14.398	893492	15.816
	LOWER LIMIT	348715	10.757	252422	13.398	223373	14.816
	EPA SAMPLE NO.						
01	GMW-5	866281	11.25	521668	13.89	439486	15.30
02	PB152410BS	743732	11.26	522731	13.90	466023	15.31
03	PB152410BSD	723645	11.26	505662	13.89	444325	15.31

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/28/2023

Lab File ID: BF133113.D Time Analyzed: 09:45

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	198535	6.739	770653	8.02	402568	9.77
	UPPER LIMIT	397070	7.239	1541310	8.522	805136	10.274
	LOWER LIMIT	99267.5	6.239	385327	7.522	201284	9.274
	EPA SAMPLE NO.						
01	PZ-01	166828	6.73	668752	8.02	341964	9.77
02	PB152410BL	216131	6.73	918056	8.02	498528	9.77

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/28/2023

Lab File ID: BF133113.D Time Analyzed: 09:45

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	728942	11.257	481262	13.892	419069	15.309
	UPPER LIMIT	1457880	11.757	962524	14.392	838138	15.809
	LOWER LIMIT	364471	10.757	240631	13.392	209535	14.809
	EPA SAMPLE NO.						
01	PZ-01	610328	11.25	346614	13.88	350544	15.30
02	PB152410BL	925187	11.25	655772	13.89	589586	15.31

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/28/2023

Lab File ID: BF133124.D Time Analyzed: 16:17

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	169530	6.739	651406	8.02	331291	9.78
	UPPER LIMIT	339060	7.239	1302810	8.522	662582	10.275
	LOWER LIMIT	84765	6.239	325703	7.522	165646	9.275
	EPA SAMPLE NO.						
01	GMW-X	178728	6.73	741436	8.02	377443	9.77

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/28/2023

Lab File ID: BF133124.D Time Analyzed: 16:17

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	609324	11.251	433500	13.892	385479	15.309
	UPPER LIMIT	1218650	11.751	867000	14.392	770958	15.809
	LOWER LIMIT	304662	10.751	216750	13.392	192740	14.809
	EPA SAMPLE NO.						
01	GMW-X	676993	11.25	502251	13.88	380375	15.30

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2023

Lab File ID: BF133147.D Time Analyzed: 10:41

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	217083	6.733	848696	8.02	437359	9.77
	UPPER LIMIT	434166	7.233	1697390	8.516	874718	10.269
	LOWER LIMIT	108542	6.233	424348	7.516	218680	9.269
	EPA SAMPLE NO.						
01	PZ-02	199149	6.73	806970	8.02	428900	9.77

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2023

Lab File ID: BF133147.D Time Analyzed: 10:41

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	726398	11.251	488634	13.892	431751	15.304
	UPPER LIMIT	1452800	11.751	977268	14.392	863502	15.804
	LOWER LIMIT	363199	10.751	244317	13.392	215876	14.804
	EPA SAMPLE NO.						
01	PZ-02	765527	11.25	408531	13.88	406919	15.30

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2023

Lab File ID: BF133156.D Time Analyzed: 15:25

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	201641	6.734	797320	8.02	409305	9.77
	UPPER LIMIT	403282	7.234	1594640	8.516	818610	10.269
	LOWER LIMIT	100821	6.234	398660	7.516	204653	9.269
	EPA SAMPLE NO.						
01	GMW-11	183210	6.73	760278	8.01	400731	9.76

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2023

Lab File ID: BF133156.D Time Analyzed: 15:25

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	709193	11.251	470586	13.886	409938	15.304
	UPPER LIMIT	1418390	11.751	941172	14.386	819876	15.804
	LOWER LIMIT	354597	10.751	235293	13.386	204969	14.804
	EPA SAMPLE NO.						
01	GMW-11	730478	11.25	376793	13.88	369828	15.30

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152410BL	SDG No.:	O2495
Lab Sample ID:	PB152410BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133116.D	1	04/26/23 09:15	04/28/23 11:18	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152410BL	SDG No.:	O2495
Lab Sample ID:	PB152410BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133116.D	1	04/26/23 09:15	04/28/23 11:18	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152410BL	SDG No.:	O2495
Lab Sample ID:	PB152410BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133116.D	1	04/26/23 09:15	04/28/23 11:18	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	120		10 - 139	80%	SPK: 150
13127-88-3	Phenol-d6	118		10 - 134	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	73.2		49 - 133	73%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.3		52 - 132	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	117		45 - 141	78%	SPK: 150
1718-51-0	Terphenyl-d14	69.1		45 - 142	69%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	216000	6.734			
1146-65-2	Naphthalene-d8	918000	8.022			
15067-26-2	Acenaphthene-d10	499000	9.769			
1517-22-2	Phenanthrene-d10	925000	11.251			
1719-03-5	Chrysene-d12	656000	13.886			
1520-96-3	Perylene-d12	590000	15.309			
TENTATIVE IDENTIFIED COMPOUNDS						
004744-10-9	Propane, 1,1-dimethoxy-	2.40	J		2.12	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	46.4	A		4.95	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152410BS	SDG No.:	O2495
Lab Sample ID:	PB152410BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133094.D	1	04/26/23 09:15	04/27/23 12:15	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	44.6		3.30	10.0	ug/L
108-95-2	Phenol	38.9		1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.9		1.70	5.00	ug/L
95-57-8	2-Chlorophenol	45.2		1.40	5.00	ug/L
95-48-7	2-Methylphenol	41.5		2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	39.3		2.30	5.00	ug/L
98-86-2	Acetophenone	43.0		1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	40.6		2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	37.8		2.00	2.50	ug/L
67-72-1	Hexachloroethane	43.9		1.60	5.00	ug/L
98-95-3	Nitrobenzene	40.7		1.70	5.00	ug/L
78-59-1	Isophorone	39.4		1.70	5.00	ug/L
88-75-5	2-Nitrophenol	46.4		2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	43.4		3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	39.8		2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	42.4		1.70	5.00	ug/L
91-20-3	Naphthalene	40.6		1.70	5.00	ug/L
106-47-8	4-Chloroaniline	23.1		2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	42.2		1.90	5.00	ug/L
105-60-2	Caprolactam	46.5		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	42.7		1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	40.0		2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	90.7	E	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	41.8		1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	39.3		1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	40.7		1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	41.5		1.60	5.00	ug/L
88-74-4	2-Nitroaniline	40.6		2.40	5.00	ug/L
131-11-3	Dimethylphthalate	40.5		1.90	5.00	ug/L
208-96-8	Acenaphthylene	40.3		2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	42.6		2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152410BS	SDG No.:	O2495
Lab Sample ID:	PB152410BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133094.D	1	04/26/23 09:15	04/27/23 12:15	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	31.9		2.40	5.00	ug/L
83-32-9	Acenaphthene	44.9		1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	100	E	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	90.0	E	2.80	10.0	ug/L
132-64-9	Dibenzofuran	39.9		1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	45.3		2.50	5.00	ug/L
84-66-2	Diethylphthalate	40.4		2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	39.8		2.20	5.00	ug/L
86-73-7	Fluorene	40.6		2.00	5.00	ug/L
100-01-6	4-Nitroaniline	46.5		2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.2		1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	39.6		2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	39.6		2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	43.8		1.90	5.00	ug/L
1912-24-9	Atrazine	45.8		3.50	5.00	ug/L
87-86-5	Pentachlorophenol	77.0		2.60	10.0	ug/L
85-01-8	Phenanthrene	40.7		2.00	5.00	ug/L
120-12-7	Anthracene	40.4		2.30	5.00	ug/L
86-74-8	Carbazole	42.7		1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	42.6		2.40	5.00	ug/L
206-44-0	Fluoranthene	42.1		2.10	5.00	ug/L
129-00-0	Pyrene	39.1		1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	46.9		2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	41.6		5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	40.6		1.50	5.00	ug/L
218-01-9	Chrysene	40.0		1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	42.7		2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	49.0		3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	45.4		1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	43.2		1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	40.1		2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	45.1		2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	45.0		2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152410BS	SDG No.:	O2495
Lab Sample ID:	PB152410BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133094.D	1	04/26/23 09:15	04/27/23 12:15	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	45.8		1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	40.5		2.10	5.00	ug/L
123-91-1	1,4-Dioxane	33.5		2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	43.4		1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	123		10 - 139	82%	SPK: 150
13127-88-3	Phenol-d6	119		10 - 134	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.5		49 - 133	82%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.8		52 - 132	82%	SPK: 100
118-79-6	2,4,6-Tribromophenol	127		45 - 141	85%	SPK: 150
1718-51-0	Terphenyl-d14	80.2		45 - 142	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	198000	6.74			
1146-65-2	Naphthalene-d8	795000	8.022			
15067-26-2	Acenaphthene-d10	415000	9.775			
1517-22-2	Phenanthrene-d10	744000	11.257			
1719-03-5	Chrysene-d12	523000	13.898			
1520-96-3	Perylene-d12	466000	15.31			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152410BSD	SDG No.:	O2495
Lab Sample ID:	PB152410BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133095.D	1	04/26/23 09:15	04/27/23 12:45	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	43.3		3.30	10.0	ug/L
108-95-2	Phenol	38.8		1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.0		1.70	5.00	ug/L
95-57-8	2-Chlorophenol	44.3		1.40	5.00	ug/L
95-48-7	2-Methylphenol	42.1		2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	38.4		2.30	5.00	ug/L
98-86-2	Acetophenone	42.9		1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	41.1		2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	38.0		2.00	2.50	ug/L
67-72-1	Hexachloroethane	43.5		1.60	5.00	ug/L
98-95-3	Nitrobenzene	40.3		1.70	5.00	ug/L
78-59-1	Isophorone	38.9		1.70	5.00	ug/L
88-75-5	2-Nitrophenol	46.4		2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	43.1		3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	39.2		2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	43.0		1.70	5.00	ug/L
91-20-3	Naphthalene	42.0		1.70	5.00	ug/L
106-47-8	4-Chloroaniline	23.6		2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	42.4		1.90	5.00	ug/L
105-60-2	Caprolactam	46.9		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	43.0		1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	39.7		2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	92.6	E	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	42.2		1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	40.2		1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	40.8		1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	41.8		1.60	5.00	ug/L
88-74-4	2-Nitroaniline	40.1		2.40	5.00	ug/L
131-11-3	Dimethylphthalate	40.4		1.90	5.00	ug/L
208-96-8	Acenaphthylene	40.5		2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	42.3		2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152410BSD	SDG No.:	O2495
Lab Sample ID:	PB152410BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133095.D	1	04/26/23 09:15	04/27/23 12:45	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	32.0		2.40	5.00	ug/L
83-32-9	Acenaphthene	45.0		1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	110	E	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	91.3	E	2.80	10.0	ug/L
132-64-9	Dibenzofuran	39.8		1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	45.0		2.50	5.00	ug/L
84-66-2	Diethylphthalate	40.6		2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	39.9		2.20	5.00	ug/L
86-73-7	Fluorene	40.7		2.00	5.00	ug/L
100-01-6	4-Nitroaniline	46.5		2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.2		1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	39.9		2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	40.0		2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	43.3		1.90	5.00	ug/L
1912-24-9	Atrazine	46.5		3.50	5.00	ug/L
87-86-5	Pentachlorophenol	75.7		2.60	10.0	ug/L
85-01-8	Phenanthrene	40.8		2.00	5.00	ug/L
120-12-7	Anthracene	40.6		2.30	5.00	ug/L
86-74-8	Carbazole	42.5		1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	42.2		2.40	5.00	ug/L
206-44-0	Fluoranthene	42.3		2.10	5.00	ug/L
129-00-0	Pyrene	39.4		1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	47.4		2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	42.1		5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	40.5		1.50	5.00	ug/L
218-01-9	Chrysene	40.2		1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	43.6		2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	48.6		3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	45.6		1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	43.4		1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	40.6		2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	46.9		2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	47.1		2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152410BSD	SDG No.:	O2495
Lab Sample ID:	PB152410BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133095.D	1	04/26/23 09:15	04/27/23 12:45	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	47.5		1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	41.0		2.10	5.00	ug/L
123-91-1	1,4-Dioxane	33.6		2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	43.5		1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	122		10 - 139	82%	SPK: 150
13127-88-3	Phenol-d6	119		10 - 134	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	80.4		49 - 133	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.7		52 - 132	83%	SPK: 100
118-79-6	2,4,6-Tribromophenol	126		45 - 141	84%	SPK: 150
1718-51-0	Terphenyl-d14	80.4		45 - 142	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	192000	6.739			
1146-65-2	Naphthalene-d8	773000	8.022			
15067-26-2	Acenaphthene-d10	400000	9.775			
1517-22-2	Phenanthrene-d10	724000	11.257			
1719-03-5	Chrysene-d12	506000	13.892			
1520-96-3	Perylene-d12	444000	15.309			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF042123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Sat Apr 22 03:30:56 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BF132965.D 5 =BF132966.D 10 =BF132967.D 20 =BF132968.D 40 =BF132969.D 50 =BF132970.D 60 =BF132971.D 80 =BF1329
72.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane	0.714	0.644	0.646	0.612	0.569	0.575	0.539	0.614		9.67
3)		Pyridine	1.675	1.643	1.752	1.673	1.573	1.614	1.488	1.631		5.17
4)		n-Nitrosodimet...	0.933	0.888	0.890	0.847	0.789	0.804	0.765	0.845		7.30
5)	S	2-Fluorophenol	1.587	1.456	1.437	1.322	1.200	1.180	1.085	1.324		13.53
6)		Aniline	2.341	2.241	2.314	2.197	2.008	2.006	1.709	2.117		10.60
7)	S	Phenol-d6	1.918	1.800	1.795	1.629	1.504	1.492	1.366	1.643		12.25
8)		2-Chlorophenol	1.575	1.485	1.479	1.354	1.225	1.208	1.084	1.344		13.31
9)		Benzaldehyde		1.115	1.002	0.762	0.683	0.640	0.545	0.791		28.00
10)	C	Phenol	2.117	1.981	1.990	1.822	1.664	1.643	1.474	1.813		12.70
11)		bis(2-Chloroet...	1.563	1.433	1.459	1.366	1.265	1.252	1.185	1.360		9.85
12)		1,3-Dichlorobe...	1.682	1.566	1.562	1.426	1.310	1.287	1.171	1.429		12.82
13)	C	1,4-Dichlorobe...	1.706	1.570	1.567	1.453	1.297	1.279	1.154	1.432		13.71
14)		1,2-Dichlorobe...	1.599	1.477	1.491	1.324	1.187	1.160	1.007	1.321		16.16
15)		Benzyl Alcohol	1.293	1.244	1.263	1.180	1.060	1.020	0.886	1.135		13.27
16)		2,2'-oxybis(1-...	2.695	2.537	2.568	2.379	2.181	2.176	2.004	2.363		10.63
17)		2-Methylphenol	1.399	1.313	1.314	1.238	1.135	1.140	1.078	1.231		9.56
18)		Hexachloroethane	0.562	0.541	0.544	0.500	0.465	0.454	0.419	0.498		10.80
19)	P	n-Nitroso-di-n...	1.129	1.150	1.087	1.086	1.001	0.913	0.933	0.885	1.023	10.15
20)		3+4-Methylphenols		1.803	1.697	1.649	1.438	1.266	1.209	1.085	1.450	18.90
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.563	0.525	0.502	0.454	0.411	0.407	0.381	0.463	14.72
23)	S	Nitrobenzene-d5		0.407	0.381	0.389	0.379	0.350	0.356	0.332	0.371	6.88
24)		Nitrobenzene		0.411	0.391	0.396	0.382	0.359	0.357	0.331	0.375	7.29
25)		Isophorone		0.754	0.706	0.717	0.710	0.665	0.696	0.677	0.704	4.09
26)	C	2-Nitrophenol		0.172	0.172	0.187	0.192	0.181	0.186	0.179	0.181	4.15
27)		2,4-Dimethylph...		0.344	0.320	0.323	0.319	0.289	0.296	0.284	0.311	6.98
28)		bis(2-Chloroet...		0.470	0.437	0.434	0.420	0.391	0.391	0.370	0.416	8.26
29)	C	2,4-Dichloroph...		0.306	0.291	0.299	0.292	0.268	0.271	0.252	0.283	6.83
30)		1,2,4-Trichlor...		0.335	0.305	0.313	0.295	0.273	0.276	0.253	0.293	9.43
31)		Naphthalene		1.196	1.094	1.079	1.011	0.898	0.910	0.811	1.000	13.40
32)		Benzoic acid		0.144	0.152	0.181	0.211	0.214	0.224	0.217	0.192	17.13
33)		4-Chloroaniline		0.456	0.442	0.444	0.402	0.367	0.374	0.341	0.404	11.08
34)	C	Hexachlorobuta...		0.182	0.174	0.172	0.164	0.150	0.153	0.142	0.162	9.08
35)		Caprolactam		0.096	0.093	0.097	0.100	0.092	0.097	0.092	0.095	3.23
36)	C	4-Chloro-3-met...		0.330	0.317	0.316	0.312	0.284	0.298	0.278	0.305	6.30
37)		2-Methylnaphth...		0.823	0.760	0.739	0.689	0.614	0.616	0.545	0.684	14.25
38)		1-Methylnaphth...		0.776	0.702	0.692	0.641	0.578	0.575	0.513	0.640	14.21

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF042123.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.611	0.578	0.583	0.541	0.495	0.495	0.460	0.538	10.41
41)	P	Hexachlorocycl...	0.286	0.296	0.334	0.334	0.313	0.324	0.307	0.314	5.86
42)	S	2,4,6-Tribromo...	0.211	0.203	0.214	0.208	0.191	0.197	0.184	0.201	5.42
43)	C	2,4,6-Trichlor...	0.396	0.372	0.396	0.381	0.353	0.363	0.343	0.372	5.54
44)		2,4,5-Trichlor...	0.464	0.437	0.452	0.444	0.411	0.418	0.384	0.430	6.33
45)	S	2-Fluorobiphenyl		1.476	1.430	1.210	1.081	1.054	0.922	1.195	18.41
46)		1,1'-Biphenyl	1.887	1.771	1.752	1.598	1.440	1.390	1.263	1.586	14.48
47)		2-Chloronaphth...	1.344	1.228	1.260	1.168	1.074	1.073	0.979	1.161	10.91
48)		2-Nitroaniline	0.373	0.379	0.407	0.402	0.372	0.386	0.366	0.384	4.04
49)		Acenaphthylene	2.146	2.002	2.049	1.893	1.709	1.681	1.504	1.855	12.45
50)		Dimethylphthalate	1.577	1.470	1.496	1.409	1.289	1.296	1.226	1.395	9.19
51)		2,6-Dinitrotol...	0.320	0.312	0.332	0.321	0.304	0.312	0.295	0.314	3.89
52)	C	Acenaphthene	1.448	1.334	1.352	1.258	1.138	1.139	1.026	1.242	11.90
53)		3-Nitroaniline	0.372	0.372	0.394	0.391	0.365	0.371	0.348	0.373	4.23
54)	P	2,4-Dinitrophenol	0.116	0.125	0.157	0.175	0.172	0.180	0.179	0.158	16.93
55)		Dibenzofuran	2.046	1.864	1.856	1.699	1.535	1.516	1.346	1.695	14.39
56)	P	4-Nitrophenol	0.282	0.281	0.303	0.309	0.286	0.285	0.278	0.289	4.10
57)		2,4-Dinitrotol...	0.408	0.398	0.428	0.424	0.389	0.397	0.358	0.400	5.84
58)		Fluorene	1.579	1.434	1.383	1.209	1.094	1.055	0.937	1.241	18.65
59)		2,3,4,6-Tetrac...	0.369	0.342	0.356	0.338	0.316	0.320	0.293	0.333	7.75
60)		Diethylphthalate	1.503	1.395	1.422	1.334	1.224	1.221	1.121	1.317	10.20
61)		4-Chlorophenyl...	0.744	0.689	0.688	0.596	0.535	0.523	0.459	0.605	17.34
62)		4-Nitroaniline	0.351	0.350	0.377	0.347	0.322	0.338	0.316	0.343	5.93
63)		Azobenzene	1.605	1.502	1.513	1.404	1.294	1.284	1.165	1.395	11.15
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.094	0.105	0.125	0.134	0.128	0.131	0.131	0.121	12.81
66)	c	n-Nitrosodiphe...	0.746	0.703	0.704	0.645	0.598	0.597	0.548	0.649	11.04
67)		4-Bromophenyl-...	0.237	0.226	0.229	0.219	0.205	0.209	0.193	0.217	6.98
68)		Hexachlorobenzene	0.236	0.231	0.236	0.225	0.210	0.215	0.203	0.222	5.95
69)		Atrazine	0.203	0.199	0.197	0.194	0.174	0.177	0.164	0.187	8.05
70)	C	Pentachlorophenol	0.150	0.154	0.164	0.170	0.156	0.161	0.153	0.158	4.43
71)		Phenanthrene	1.314	1.187	1.153	1.062	0.972	0.972	0.865	1.075	14.28
72)		Anthracene	1.314	1.214	1.194	1.099	0.992	0.999	0.888	1.100	13.59
73)		Carbazole	1.120	1.068	1.044	0.991	0.896	0.919	0.819	0.980	10.90
74)		Di-n-butylphth...	1.186	1.160	1.191	1.152	1.057	1.046	0.968	1.109	7.68
75)	C	Fluoranthene	1.251	1.164	1.164	1.094	0.992	0.982	0.904	1.079	11.46
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.313	0.374	0.425	0.340	0.288	0.289		0.338	15.86
78)		Pyrene	1.801	1.685	1.720	1.762	1.659	1.722	1.651	1.714	3.18
79)	S	Terphenyl-d14	1.290	1.208	1.208	1.173	1.078	1.119	1.041	1.160	7.41
80)		Butylbenzylpht...	0.487	0.516	0.592	0.665	0.639	0.679	0.671	0.607	12.86
81)		Benzo(a)anthra...	1.506	1.401	1.466	1.417	1.298	1.305	1.234	1.375	7.18
82)		3,3'-Dichlorob...	0.375	0.382	0.423	0.411	0.374	0.382	0.312	0.380	9.23
83)		Chrysene	1.501	1.402	1.426	1.413	1.302	1.322	1.259	1.375	6.10
84)		Bis(2-ethylhex...	0.727	0.743	0.806	0.817	0.759	0.768	0.714	0.762	5.05
85)	c	Di-n-octyl pht...	1.065	1.096	1.296	1.351	1.273	1.319	1.298	1.242	9.14

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF042123.M

86) I	Perylene-d12	----------ISTD----------								
87)	Indeno(1,2,3-c...	1.036	0.939	1.052	1.207	1.180	1.278	1.271	1.138	11.41
88)	Benzo(b)fluora...	1.321	1.257	1.295	1.334	1.247	1.223	1.230	1.272	3.48
89)	Benzo(k)fluora...	1.317	1.332	1.424	1.289	1.177	1.219	1.071	1.261	9.17
90) C	Benzo(a)pyrene	1.181	1.145	1.203	1.202	1.127	1.150	1.099	1.158	3.37
91)	Dibenzo(a,h)an...	0.856	0.786	0.885	1.022	0.980	1.065	1.047	0.949	11.27
92)	Benzo(g,h,i)pe...	0.827	0.732	0.853	1.005	0.989	1.077	1.075	0.937	14.29

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: BNA_F Calibration Date/Time: 04/27/2023 09:59

Lab File ID: BF133090.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.324	1.241		-6.3	
Benzaldehyde	0.791	0.741		-6.3	
Phenol-d6	1.643	1.511		-8.0	
Phenol	1.813	1.632		-10.0	20.0
bis(2-Chloroethyl)ether	1.360	1.204		-11.5	
2-Chlorophenol	1.344	1.259		-6.3	
2-Methylphenol	1.231	1.179		-4.2	
2,2-oxybis(1-Chloropropane)	2.363	1.934		-18.2	
Acetophenone	0.463	0.430		-7.1	
3+4-Methylphenols	1.450	1.343		-7.4	
n-Nitroso-di-n-propylamine	1.023	0.845	0.050	-17.4	
Nitrobenzene-d5	0.371	0.338		-8.9	
Hexachloroethane	0.498	0.452		-9.2	
Nitrobenzene	0.375	0.343		-8.5	
Isophorone	0.704	0.629		-10.7	
2-Nitrophenol	0.181	0.184		1.7	20.0
2,4-Dimethylphenol	0.311	0.293		-5.8	
bis(2-Chloroethoxy)methane	0.416	0.373		-10.3	
2,4-Dichlorophenol	0.283	0.273		-3.5	20.0
Naphthalene	1.000	0.936		-6.4	
4-Chloroaniline	0.404	0.412		2.0	
Hexachlorobutadiene	0.162	0.152		-6.2	20.0
Caprolactam	0.095	0.099		4.2	
4-Chloro-3-methylphenol	0.305	0.294		-3.6	20.0
2-Methylnaphthalene	0.684	0.643		-6.0	
Hexachlorocyclopentadiene	0.314	0.291	0.050	-7.3	
2,4,6-Trichlorophenol	0.372	0.347		-6.7	20.0
2-Fluorobiphenyl	1.195	1.150		-3.8	
2,4,5-Trichlorophenol	0.430	0.423		-1.6	
1,1-Biphenyl	1.586	1.475		-7.0	
2-Chloronaphthalene	1.161	1.090		-6.1	
2-Nitroaniline	0.384	0.370		-3.6	
Dimethylphthalate	1.395	1.319		-5.4	
Acenaphthylene	1.855	1.736		-6.4	
2,6-Dinitrotoluene	0.314	0.312		-0.6	
3-Nitroaniline	0.373	0.384		2.9	
Acenaphthene	1.242	1.171		-5.7	20.0
2,4-Dinitrophenol	0.158	0.180	0.050	13.9	
4-Nitrophenol	0.289	0.292	0.050	1.0	
Dibenzofuran	1.695	1.588		-6.3	
2,4-Dinitrotoluene	0.400	0.413		3.3	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: BNA_F Calibration Date/Time: 04/27/2023 09:59

Lab File ID: BF133090.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.317	1.254		-4.8	
4-Chlorophenyl-phenylether	0.605	0.577		-4.6	
Fluorene	1.241	1.197		-3.5	
4-Nitroaniline	0.343	0.383		11.7	
4,6-Dinitro-2-methylphenol	0.121	0.132		9.1	
n-Nitrosodiphenylamine	0.649	0.597		-8.0	20.0
2,4,6-Tribromophenol	0.201	0.206		2.5	
4-Bromophenyl-phenylether	0.217	0.199		-8.3	
Hexachlorobenzene	0.222	0.208		-6.3	
Atrazine	0.187	0.183		-2.1	
Pentachlorophenol	0.158	0.156		-1.3	20.0
Phenanthrene	1.075	1.003		-6.7	
Anthracene	1.100	1.033		-6.1	
Carbazole	0.980	0.947		-3.4	
Di-n-butylphthalate	1.109	1.087		-2.0	
Fluoranthene	1.079	1.054		-2.3	20.0
Pyrene	1.714	1.498		-12.6	
Terphenyl-d14	1.160	1.009		-13.1	
Butylbenzylphthalate	0.607	0.637		4.9	
3,3-Dichlorobenzidine	0.380	0.411		8.2	
Benzo(a)anthracene	1.375	1.240		-9.8	
Chrysene	1.375	1.235		-10.2	
Bis(2-ethylhexyl)phthalate	0.762	0.739		-3.0	
Di-n-octyl phthalate	1.242	1.302		4.8	20.0
Benzo(b)fluoranthene	1.272	1.182		-7.1	
Benzo(k)fluoranthene	1.261	1.204		-4.5	
Benzo(a)pyrene	1.158	1.083		-6.5	20.0
Indeno(1,2,3-cd)pyrene	1.138	1.072		-5.8	
Dibenzo(a,h)anthracene	0.949	0.896		-5.6	
Benzo(g,h,i)perylene	0.937	0.900		-3.9	
1,2,4,5-Tetrachlorobenzene	0.538	0.495		-8.0	
1,4-Dioxane	0.614	0.552		-10.1	20.0
2,3,4,6-Tetrachlorophenol	0.333	0.328		-1.5	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: BNA_F Calibration Date/Time: 04/28/2023 09:45

Lab File ID: BF133113.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.324	1.213		-8.4	
Benzaldehyde	0.791	0.737		-6.8	
Phenol-d6	1.643	1.516		-7.7	
Phenol	1.813	1.635		-9.8	20.0
bis(2-Chloroethyl)ether	1.360	1.219		-10.4	
2-Chlorophenol	1.344	1.249		-7.1	
2-Methylphenol	1.231	1.193		-3.1	
2,2-oxybis(1-Chloropropane)	2.363	1.957		-17.2	
Acetophenone	0.463	0.435		-6.0	
3+4-Methylphenols	1.450	1.373		-5.3	
n-Nitroso-di-n-propylamine	1.023	0.877	0.050	-14.3	
Nitrobenzene-d5	0.371	0.349		-5.9	
Hexachloroethane	0.498	0.459		-7.8	
Nitrobenzene	0.375	0.352		-6.1	
Isophorone	0.704	0.647		-8.1	
2-Nitrophenol	0.181	0.188		3.9	20.0
2,4-Dimethylphenol	0.311	0.299		-3.9	
bis(2-Chloroethoxy)methane	0.416	0.373		-10.3	
2,4-Dichlorophenol	0.283	0.276		-2.5	20.0
Naphthalene	1.000	0.944		-5.6	
4-Chloroaniline	0.404	0.411		1.7	
Hexachlorobutadiene	0.162	0.153		-5.6	20.0
Caprolactam	0.095	0.096		1.1	
4-Chloro-3-methylphenol	0.305	0.300		-1.6	20.0
2-Methylnaphthalene	0.684	0.643		-6.0	
Hexachlorocyclopentadiene	0.314	0.293	0.050	-6.7	
2,4,6-Trichlorophenol	0.372	0.357		-4.0	20.0
2-Fluorobiphenyl	1.195	1.143		-4.4	
2,4,5-Trichlorophenol	0.430	0.417		-3.0	
1,1-Biphenyl	1.586	1.462		-7.8	
2-Chloronaphthalene	1.161	1.082		-6.8	
2-Nitroaniline	0.384	0.363		-5.5	
Dimethylphthalate	1.395	1.316		-5.7	
Acenaphthylene	1.855	1.739		-6.3	
2,6-Dinitrotoluene	0.314	0.309		-1.6	
3-Nitroaniline	0.373	0.366		-1.9	
Acenaphthene	1.242	1.177		-5.2	20.0
2,4-Dinitrophenol	0.158	0.170	0.050	7.6	
4-Nitrophenol	0.289	0.275	0.050	-4.8	
Dibenzofuran	1.695	1.575		-7.1	
2,4-Dinitrotoluene	0.400	0.408		2.0	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: BNA_F Calibration Date/Time: 04/28/2023 09:45

Lab File ID: BF133113.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.317	1.232		-6.5	
4-Chlorophenyl-phenylether	0.605	0.570		-5.8	
Fluorene	1.241	1.176		-5.2	
4-Nitroaniline	0.343	0.363		5.8	
4,6-Dinitro-2-methylphenol	0.121	0.133		9.9	
n-Nitrosodiphenylamine	0.649	0.598		-7.9	20.0
2,4,6-Tribromophenol	0.201	0.201		0.0	
4-Bromophenyl-phenylether	0.217	0.197		-9.2	
Hexachlorobenzene	0.222	0.210		-5.4	
Atrazine	0.187	0.182		-2.7	
Pentachlorophenol	0.158	0.150		-5.1	20.0
Phenanthrene	1.075	0.979		-8.9	
Anthracene	1.100	1.001		-9.0	
Carbazole	0.980	0.916		-6.5	
Di-n-butylphthalate	1.109	1.047		-5.6	
Fluoranthene	1.079	1.007		-6.7	20.0
Pyrene	1.714	1.572		-8.3	
Terphenyl-d14	1.160	1.041		-10.3	
Butylbenzylphthalate	0.607	0.658		8.4	
3,3-Dichlorobenzidine	0.380	0.409		7.6	
Benzo(a)anthracene	1.375	1.249		-9.2	
Chrysene	1.375	1.254		-8.8	
Bis(2-ethylhexyl)phthalate	0.762	0.755		-0.9	
Di-n-octyl phthalate	1.242	1.288		3.7	20.0
Benzo(b)fluoranthene	1.272	1.240		-2.5	
Benzo(k)fluoranthene	1.261	1.126		-10.7	
Benzo(a)pyrene	1.158	1.084		-6.4	20.0
Indeno(1,2,3-cd)pyrene	1.138	1.146		0.7	
Dibenzo(a,h)anthracene	0.949	0.947		-0.2	
Benzo(g,h,i)perylene	0.937	0.954		1.8	
1,2,4,5-Tetrachlorobenzene	0.538	0.499		-7.2	
1,4-Dioxane	0.614	0.550		-10.4	20.0
2,3,4,6-Tetrachlorophenol	0.333	0.310		-6.9	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: BNA_F Calibration Date/Time: 04/28/2023 16:17

Lab File ID: BF133124.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.324	1.272		-3.9	
Benzaldehyde	0.791	0.738		-6.7	
Phenol-d6	1.643	1.517		-7.7	
Phenol	1.813	1.606		-11.4	20.0
bis(2-Chloroethyl)ether	1.360	1.206		-11.3	
2-Chlorophenol	1.344	1.256		-6.5	
2-Methylphenol	1.231	1.141		-7.3	
2,2-oxybis(1-Chloropropane)	2.363	1.922		-18.7	
Acetophenone	0.463	0.428		-7.6	
3+4-Methylphenols	1.450	1.336		-7.9	
n-Nitroso-di-n-propylamine	1.023	0.846	0.050	-17.3	
Nitrobenzene-d5	0.371	0.340		-8.4	
Hexachloroethane	0.498	0.450		-9.6	
Nitrobenzene	0.375	0.346		-7.7	
Isophorone	0.704	0.622		-11.6	
2-Nitrophenol	0.181	0.185		2.2	20.0
2,4-Dimethylphenol	0.311	0.290		-6.8	
bis(2-Chloroethoxy)methane	0.416	0.371		-10.8	
2,4-Dichlorophenol	0.283	0.272		-3.9	20.0
Naphthalene	1.000	0.957		-4.3	
4-Chloroaniline	0.404	0.405		0.2	
Hexachlorobutadiene	0.162	0.156		-3.7	20.0
Caprolactam	0.095	0.097		2.1	
4-Chloro-3-methylphenol	0.305	0.288		-5.6	20.0
2-Methylnaphthalene	0.684	0.643		-6.0	
Hexachlorocyclopentadiene	0.314	0.287	0.050	-8.6	
2,4,6-Trichlorophenol	0.372	0.363		-2.4	20.0
2-Fluorobiphenyl	1.195	1.189		-0.5	
2,4,5-Trichlorophenol	0.430	0.417		-3.0	
1,1-Biphenyl	1.586	1.490		-6.1	
2-Chloronaphthalene	1.161	1.090		-6.1	
2-Nitroaniline	0.384	0.356		-7.3	
Dimethylphthalate	1.395	1.332		-4.5	
Acenaphthylene	1.855	1.789		-3.6	
2,6-Dinitrotoluene	0.314	0.314		0.0	
3-Nitroaniline	0.373	0.371		-0.5	
Acenaphthene	1.242	1.196		-3.7	20.0
2,4-Dinitrophenol	0.158	0.173	0.050	9.5	
4-Nitrophenol	0.289	0.282	0.050	-2.4	
Dibenzofuran	1.695	1.613		-4.8	
2,4-Dinitrotoluene	0.400	0.416		4.0	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: BNA_F Calibration Date/Time: 04/28/2023 16:17

Lab File ID: BF133124.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.317	1.259		-4.4	
4-Chlorophenyl-phenylether	0.605	0.587		-3.0	
Fluorene	1.241	1.224		-1.4	
4-Nitroaniline	0.343	0.377		9.9	
4,6-Dinitro-2-methylphenol	0.121	0.130		7.4	
n-Nitrosodiphenylamine	0.649	0.594		-8.5	20.0
2,4,6-Tribromophenol	0.201	0.205		2.0	
4-Bromophenyl-phenylether	0.217	0.201		-7.4	
Hexachlorobenzene	0.222	0.208		-6.3	
Atrazine	0.187	0.181		-3.2	
Pentachlorophenol	0.158	0.151		-4.4	20.0
Phenanthrene	1.075	0.996		-7.3	
Anthracene	1.100	1.043		-5.2	
Carbazole	0.980	0.934		-4.7	
Di-n-butylphthalate	1.109	1.096		-1.2	
Fluoranthene	1.079	1.073		-0.6	20.0
Pyrene	1.714	1.518		-11.4	
Terphenyl-d14	1.160	1.040		-10.3	
Butylbenzylphthalate	0.607	0.642		5.8	
3,3-Dichlorobenzidine	0.380	0.405		6.6	
Benzo(a)anthracene	1.375	1.253		-8.9	
Chrysene	1.375	1.271		-7.6	
Bis(2-ethylhexyl)phthalate	0.762	0.741		-2.8	
Di-n-octyl phthalate	1.242	1.246		0.3	20.0
Benzo(b)fluoranthene	1.272	1.161		-8.7	
Benzo(k)fluoranthene	1.261	1.225		-2.9	
Benzo(a)pyrene	1.158	1.104		-4.7	20.0
Indeno(1,2,3-cd)pyrene	1.138	1.199		5.4	
Dibenzo(a,h)anthracene	0.949	0.998		5.2	
Benzo(g,h,i)perylene	0.937	1.005		7.3	
1,2,4,5-Tetrachlorobenzene	0.538	0.512		-4.8	
1,4-Dioxane	0.614	0.587		-4.4	20.0
2,3,4,6-Tetrachlorophenol	0.333	0.320		-3.9	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: BNA_F Calibration Date/Time: 05/01/2023 10:41

Lab File ID: BF133147.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.324	1.247		-5.8	
Benzaldehyde	0.791	0.752		-4.9	
Phenol-d6	1.643	1.550		-5.7	
Phenol	1.813	1.675		-7.6	20.0
bis(2-Chloroethyl)ether	1.360	1.268		-6.8	
2-Chlorophenol	1.344	1.290		-4.0	
2-Methylphenol	1.231	1.195		-2.9	
2,2-oxybis(1-Chloropropane)	2.363	2.033		-14.0	
Acetophenone	0.463	0.431		-6.9	
3+4-Methylphenols	1.450	1.342		-7.4	
n-Nitroso-di-n-propylamine	1.023	0.874	0.050	-14.6	
Nitrobenzene-d5	0.371	0.348		-6.2	
Hexachloroethane	0.498	0.469		-5.8	
Nitrobenzene	0.375	0.354		-5.6	
Isophorone	0.704	0.652		-7.4	
2-Nitrophenol	0.181	0.188		3.9	20.0
2,4-Dimethylphenol	0.311	0.301		-3.2	
bis(2-Chloroethoxy)methane	0.416	0.383		-7.9	
2,4-Dichlorophenol	0.283	0.275		-2.8	20.0
Naphthalene	1.000	0.943		-5.7	
4-Chloroaniline	0.404	0.412		2.0	
Hexachlorobutadiene	0.162	0.152		-6.2	20.0
Caprolactam	0.095	0.096		1.1	
4-Chloro-3-methylphenol	0.305	0.300		-1.6	20.0
2-Methylnaphthalene	0.684	0.638		-6.7	
Hexachlorocyclopentadiene	0.314	0.290	0.050	-7.6	
2,4,6-Trichlorophenol	0.372	0.353		-5.1	20.0
2-Fluorobiphenyl	1.195	1.110		-7.1	
2,4,5-Trichlorophenol	0.430	0.413		-4.0	
1,1-Biphenyl	1.586	1.458		-8.1	
2-Chloronaphthalene	1.161	1.089		-6.2	
2-Nitroaniline	0.384	0.364		-5.2	
Dimethylphthalate	1.395	1.310		-6.1	
Acenaphthylene	1.855	1.719		-7.3	
2,6-Dinitrotoluene	0.314	0.304		-3.2	
3-Nitroaniline	0.373	0.366		-1.9	
Acenaphthene	1.242	1.165		-6.2	20.0
2,4-Dinitrophenol	0.158	0.167	0.050	5.7	
4-Nitrophenol	0.289	0.277	0.050	-4.2	
Dibenzofuran	1.695	1.563		-7.8	
2,4-Dinitrotoluene	0.400	0.394		-1.5	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: BNA_F Calibration Date/Time: 05/01/2023 10:41

Lab File ID: BF133147.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.317	1.153		-12.5	
4-Chlorophenyl-phenylether	0.605	0.537		-11.2	
Fluorene	1.241	1.098		-11.5	
4-Nitroaniline	0.343	0.348		1.5	
4,6-Dinitro-2-methylphenol	0.121	0.130		7.4	
n-Nitrosodiphenylamine	0.649	0.608		-6.3	20.0
2,4,6-Tribromophenol	0.201	0.186		-7.5	
4-Bromophenyl-phenylether	0.217	0.203		-6.5	
Hexachlorobenzene	0.222	0.214		-3.6	
Atrazine	0.187	0.181		-3.2	
Pentachlorophenol	0.158	0.156		-1.3	20.0
Phenanthrene	1.075	1.000		-7.0	
Anthracene	1.100	1.030		-6.4	
Carbazole	0.980	0.925		-5.6	
Di-n-butylphthalate	1.109	1.065		-4.0	
Fluoranthene	1.079	1.037		-3.9	20.0
Pyrene	1.714	1.573		-8.2	
Terphenyl-d14	1.160	1.029		-11.3	
Butylbenzylphthalate	0.607	0.643		5.9	
3,3-Dichlorobenzidine	0.380	0.394		3.7	
Benzo(a)anthracene	1.375	1.271		-7.6	
Chrysene	1.375	1.286		-6.5	
Bis(2-ethylhexyl)phthalate	0.762	0.778		2.1	
Di-n-octyl phthalate	1.242	1.340		7.9	20.0
Benzo(b)fluoranthene	1.272	1.182		-7.1	
Benzo(k)fluoranthene	1.261	1.204		-4.5	
Benzo(a)pyrene	1.158	1.096		-5.4	20.0
Indeno(1,2,3-cd)pyrene	1.138	1.118		-1.8	
Dibenzo(a,h)anthracene	0.949	0.933		-1.7	
Benzo(g,h,i)perylene	0.937	0.949		1.3	
1,2,4,5-Tetrachlorobenzene	0.538	0.491		-8.7	
1,4-Dioxane	0.614	0.578		-5.9	20.0
2,3,4,6-Tetrachlorophenol	0.333	0.301		-9.6	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: BNA_F Calibration Date/Time: 05/01/2023 15:25

Lab File ID: BF133156.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.324	1.266		-4.4	
Benzaldehyde	0.791	0.766		-3.2	
Phenol-d6	1.643	1.586		-3.5	
Phenol	1.813	1.695		-6.5	20.0
bis(2-Chloroethyl)ether	1.360	1.281		-5.8	
2-Chlorophenol	1.344	1.302		-3.1	
2-Methylphenol	1.231	1.183		-3.9	
2,2-oxybis(1-Chloropropane)	2.363	2.102		-11.0	
Acetophenone	0.463	0.440		-5.0	
3+4-Methylphenols	1.450	1.379		-4.9	
n-Nitroso-di-n-propylamine	1.023	0.897	0.050	-12.3	
Nitrobenzene-d5	0.371	0.357		-3.8	
Hexachloroethane	0.498	0.480		-3.6	
Nitrobenzene	0.375	0.363		-3.2	
Isophorone	0.704	0.663		-5.8	
2-Nitrophenol	0.181	0.188		3.9	20.0
2,4-Dimethylphenol	0.311	0.301		-3.2	
bis(2-Chloroethoxy)methane	0.416	0.393		-5.5	
2,4-Dichlorophenol	0.283	0.281		-0.7	20.0
Naphthalene	1.000	0.961		-3.9	
4-Chloroaniline	0.404	0.422		4.5	
Hexachlorobutadiene	0.162	0.158		-2.5	20.0
Caprolactam	0.095	0.100		5.3	
4-Chloro-3-methylphenol	0.305	0.304		-0.3	20.0
2-Methylnaphthalene	0.684	0.664		-2.9	
Hexachlorocyclopentadiene	0.314	0.297	0.050	-5.4	
2,4,6-Trichlorophenol	0.372	0.364		-2.2	20.0
2-Fluorobiphenyl	1.195	1.159		-3.0	
2,4,5-Trichlorophenol	0.430	0.426		-0.9	
1,1-Biphenyl	1.586	1.520		-4.2	
2-Chloronaphthalene	1.161	1.121		-3.4	
2-Nitroaniline	0.384	0.387		0.8	
Dimethylphthalate	1.395	1.346		-3.5	
Acenaphthylene	1.855	1.818		-2.0	
2,6-Dinitrotoluene	0.314	0.315		0.3	
3-Nitroaniline	0.373	0.382		2.4	
Acenaphthene	1.242	1.096		-11.8	20.0
2,4-Dinitrophenol	0.158	0.171	0.050	8.2	
4-Nitrophenol	0.289	0.274	0.050	-5.2	
Dibenzofuran	1.695	1.599		-5.7	
2,4-Dinitrotoluene	0.400	0.409		2.3	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: BNA_F Calibration Date/Time: 05/01/2023 15:25

Lab File ID: BF133156.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.317	1.220		-7.4	
4-Chlorophenyl-phenylether	0.605	0.565		-6.6	
Fluorene	1.241	1.157		-6.8	
4-Nitroaniline	0.343	0.357		4.1	
4,6-Dinitro-2-methylphenol	0.121	0.134		10.7	
n-Nitrosodiphenylamine	0.649	0.617		-4.9	20.0
2,4,6-Tribromophenol	0.201	0.201		0.0	
4-Bromophenyl-phenylether	0.217	0.210		-3.2	
Hexachlorobenzene	0.222	0.220		-0.9	
Atrazine	0.187	0.187		0.0	
Pentachlorophenol	0.158	0.157		-0.6	20.0
Phenanthrene	1.075	1.017		-5.4	
Anthracene	1.100	1.053		-4.3	
Carbazole	0.980	0.945		-3.6	
Di-n-butylphthalate	1.109	1.096		-1.2	
Fluoranthene	1.079	1.048		-2.9	20.0
Pyrene	1.714	1.636		-4.6	
Terphenyl-d14	1.160	1.108		-4.5	
Butylbenzylphthalate	0.607	0.715		17.8	
3,3-Dichlorobenzidine	0.380	0.414		8.9	
Benzo(a)anthracene	1.375	1.286		-6.5	
Chrysene	1.375	1.317		-4.2	
Bis(2-ethylhexyl)phthalate	0.762	0.811		6.4	
Di-n-octyl phthalate	1.242	1.301		4.8	20.0
Benzo(b)fluoranthene	1.272	1.253		-1.5	
Benzo(k)fluoranthene	1.261	1.182		-6.3	
Benzo(a)pyrene	1.158	1.123		-3.0	20.0
Indeno(1,2,3-cd)pyrene	1.138	1.198		5.3	
Dibenzo(a,h)anthracene	0.949	0.998		5.2	
Benzo(g,h,i)perylene	0.937	1.018		8.6	
1,2,4,5-Tetrachlorobenzene	0.538	0.504		-6.3	
1,4-Dioxane	0.614	0.601		-2.1	20.0
2,3,4,6-Tetrachlorophenol	0.333	0.321		-3.6	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

CHEMTECH
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LAB CHRONICLE

OrderID:	O2495	**OrderDate:**	4/25/2023 3:22:44 PM
Client:	GEI Consultants, Inc., P.C.	**Project:**	Ferry Point
Contact:	Stacey Ng	**Location:**	N11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O2495-01	**PZ-01**	**Water**			**04/25/23**			**04/25/23**
			Mercury	7470A		04/28/23	04/28/23	
			Metals ICP-TAL	6010D		05/02/23	05/04/23	
O2495-02	**PZ-01**	**Water**			**04/25/23**			**04/25/23**
			Dissolved ICP-TAL Metals	6010D		05/02/23	05/04/23	
			Dissolved Mercury	7470A		05/02/23	05/02/23	
O2495-03	**PZ-02**	**Water**			**04/25/23**			**04/25/23**
			Mercury	7470A		04/28/23	04/28/23	
			Metals ICP-TAL	6010D		05/02/23	05/03/23	
O2495-04	**PZ-02**	**Water**			**04/25/23**			**04/25/23**
			Dissolved ICP-TAL Metals	6010D		05/02/23	05/03/23	
			Dissolved Mercury	7470A		05/02/23	05/02/23	
O2495-05	**GMW-11**	**Water**			**04/25/23**			**04/25/23**
			Mercury	7470A		04/28/23	04/28/23	
			Metals ICP-TAL	6010D		05/02/23	05/03/23	
O2495-06	**GMW-11**	**Water**			**04/25/23**			**04/25/23**
			Dissolved ICP-TAL Metals	6010D		05/02/23	05/03/23	
			Dissolved Mercury	7470A		05/02/23	05/02/23	
O2495-07	**GMW-X**	**Water**			**04/25/23**			**04/25/23**
			Mercury	7470A		04/28/23	04/28/23	
			Metals ICP-TAL	6010D		05/02/23	05/03/23	
O2495-08	**GMW-X**	**Water**			**04/25/23**			**04/25/23**
			Dissolved ICP-TAL Metals	6010D		05/02/23	05/03/23	
			Dissolved Mercury	7470A		05/02/23	05/02/23	
O2495-09	**GMW-5**	**Water**			**04/25/23**			**04/25/23**
			Mercury	7470A		04/28/23	04/28/23	

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LAB CHRONICLE

			Metals ICP-TAL	6010D		05/02/23	05/02/23	
O2495-10	**GMW-5**	**Water**			**04/25/23**			**04/25/23**
			Dissolved ICP-TAL Metals	6010D		05/02/23	05/03/23	
			Dissolved Mercury	7470A		05/02/23	05/02/23	

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Hit Summary Sheet
SW-846

SDG No.: O2495 **Order ID:** O2495

Client: GEI Consultants, Inc., P.C. **Project ID:** Ferry Point

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**PZ-01**							
O2495-01	PZ-01	Water	Aluminum	2650		28.3	50.0	ug/L
O2495-01	PZ-01	Water	Antimony	3.47	J	2.06	25.0	ug/L
O2495-01	PZ-01	Water	Arsenic	6.06	J	3.48	10.0	ug/L
O2495-01	PZ-01	Water	Barium	545		3.92	50.0	ug/L
O2495-01	PZ-01	Water	Beryllium	0.32	J	0.13	3.00	ug/L
O2495-01	PZ-01	Water	Cadmium	2.96	J	0.10	3.00	ug/L
O2495-01	PZ-01	Water	Calcium	129000		47.7	1000	ug/L
O2495-01	PZ-01	Water	Chromium	11.8		0.80	5.00	ug/L
O2495-01	PZ-01	Water	Cobalt	3.58	J	0.40	15.0	ug/L
O2495-01	PZ-01	Water	Copper	351		7.07	10.0	ug/L
O2495-01	PZ-01	Water	Iron	14000		18.5	50.0	ug/L
O2495-01	PZ-01	Water	Lead	238		3.51	6.00	ug/L
O2495-01	PZ-01	Water	Magnesium	13100		36.0	1000	ug/L
O2495-01	PZ-01	Water	Manganese	761		0.68	10.0	ug/L
O2495-01	PZ-01	Water	Mercury	0.39		0.078	0.20	ug/L
O2495-01	PZ-01	Water	Nickel	21.3		0.85	20.0	ug/L
O2495-01	PZ-01	Water	Potassium	16600		685	1000	ug/L
O2495-01	PZ-01	Water	Silver	1.43	J	0.66	5.00	ug/L
O2495-01	PZ-01	Water	Sodium	26500		237	1000	ug/L
O2495-01	PZ-01	Water	Vanadium	8.59	J	3.01	20.0	ug/L
O2495-01	PZ-01	Water	Zinc	592		1.75	20.0	ug/L
O2495-01	PZ-01	Water	Hardness, Total	376000		267	6620	ug/L
Client ID :	**PZ-01**							
O2495-02	PZ-01	Water	Aluminum	124		28.3	50.0	ug/L
O2495-02	PZ-01	Water	Barium	429		3.92	50.0	ug/L
O2495-02	PZ-01	Water	Calcium	117000		47.7	1000	ug/L
O2495-02	PZ-01	Water	Cobalt	0.81	J	0.40	15.0	ug/L
O2495-02	PZ-01	Water	Copper	25.4		7.07	10.0	ug/L
O2495-02	PZ-01	Water	Iron	646		18.5	50.0	ug/L
O2495-02	PZ-01	Water	Magnesium	12900		36.0	1000	ug/L
O2495-02	PZ-01	Water	Manganese	433		0.68	10.0	ug/L
O2495-02	PZ-01	Water	Nickel	7.25	J	0.85	20.0	ug/L
O2495-02	PZ-01	Water	Potassium	15900		685	1000	ug/L
O2495-02	PZ-01	Water	Sodium	29000		237	1000	ug/L
O2495-02	PZ-01	Water	Zinc	35.4		1.75	20.0	ug/L
Client ID :	**PZ-02**							
O2495-03	PZ-02	Water	Aluminum	5240		28.3	50.0	ug/L
O2495-03	PZ-02	Water	Antimony	4.92	J	2.06	25.0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: O2495 **Order ID:** O2495

Client: GEI Consultants, Inc., P.C. **Project ID:** Ferry Point

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
O2495-03	PZ-02	Water	Arsenic	20.1		3.48	10.0	ug/L
O2495-03	PZ-02	Water	Barium	2380		3.92	50.0	ug/L
O2495-03	PZ-02	Water	Beryllium	0.92	J	0.13	3.00	ug/L
O2495-03	PZ-02	Water	Cadmium	2.84	J	0.10	3.00	ug/L
O2495-03	PZ-02	Water	Calcium	101000		47.7	1000	ug/L
O2495-03	PZ-02	Water	Chromium	23.2		0.80	5.00	ug/L
O2495-03	PZ-02	Water	Cobalt	12.0	J	0.40	15.0	ug/L
O2495-03	PZ-02	Water	Copper	186		7.07	10.0	ug/L
O2495-03	PZ-02	Water	Iron	35900		18.5	50.0	ug/L
O2495-03	PZ-02	Water	Lead	451		3.51	6.00	ug/L
O2495-03	PZ-02	Water	Magnesium	29600		36.0	1000	ug/L
O2495-03	PZ-02	Water	Manganese	440		0.68	10.0	ug/L
O2495-03	PZ-02	Water	Mercury	0.74		0.078	0.20	ug/L
O2495-03	PZ-02	Water	Nickel	43.1		0.85	20.0	ug/L
O2495-03	PZ-02	Water	Potassium	42800		685	1000	ug/L
O2495-03	PZ-02	Water	Silver	8.06		0.66	5.00	ug/L
O2495-03	PZ-02	Water	Sodium	129000		237	1000	ug/L
O2495-03	PZ-02	Water	Vanadium	26.8		3.01	20.0	ug/L
O2495-03	PZ-02	Water	Zinc	1070		1.75	20.0	ug/L
O2495-03	PZ-02	Water	Hardness, Total	374000		267	6620	ug/L
Client ID :	**PZ-02**							
O2495-04	PZ-02	Water	Aluminum	112		28.3	50.0	ug/L
O2495-04	PZ-02	Water	Barium	570		3.92	50.0	ug/L
O2495-04	PZ-02	Water	Calcium	88200		47.7	1000	ug/L
O2495-04	PZ-02	Water	Chromium	1.29	J	0.80	5.00	ug/L
O2495-04	PZ-02	Water	Cobalt	1.63	J	0.40	15.0	ug/L
O2495-04	PZ-02	Water	Copper	28.3		7.07	10.0	ug/L
O2495-04	PZ-02	Water	Iron	92.2		18.5	50.0	ug/L
O2495-04	PZ-02	Water	Magnesium	23300		36.0	1000	ug/L
O2495-04	PZ-02	Water	Manganese	228		0.68	10.0	ug/L
O2495-04	PZ-02	Water	Nickel	9.28	J	0.85	20.0	ug/L
O2495-04	PZ-02	Water	Potassium	31100		685	1000	ug/L
O2495-04	PZ-02	Water	Silver	0.67	J	0.66	5.00	ug/L
O2495-04	PZ-02	Water	Sodium	86200		237	1000	ug/L
O2495-04	PZ-02	Water	Zinc	13.3	J	1.75	20.0	ug/L
Client ID :	**GMW-11**							
O2495-05	GMW-11	Water	Aluminum	19300		28.3	50.0	ug/L
O2495-05	GMW-11	Water	Antimony	2.22	J	2.06	25.0	ug/L
O2495-05	GMW-11	Water	Arsenic	7.15	J	3.48	10.0	ug/L
O2495-05	GMW-11	Water	Barium	254		3.92	50.0	ug/L
O2495-05	GMW-11	Water	Beryllium	1.04	J	0.13	3.00	ug/L

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Hit Summary Sheet
SW-846

SDG No.: O2495 **Order ID:** O2495

Client: GEI Consultants, Inc., P.C. **Project ID:** Ferry Point

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
O2495-05	GMW-11	Water	Cadmium	0.49	J	0.10	3.00	ug/L
O2495-05	GMW-11	Water	Calcium	91200		47.7	1000	ug/L
O2495-05	GMW-11	Water	Chromium	33.0		0.80	5.00	ug/L
O2495-05	GMW-11	Water	Cobalt	12.8	J	0.40	15.0	ug/L
O2495-05	GMW-11	Water	Copper	92.0		7.07	10.0	ug/L
O2495-05	GMW-11	Water	Iron	26200		18.5	50.0	ug/L
O2495-05	GMW-11	Water	Lead	205		3.51	6.00	ug/L
O2495-05	GMW-11	Water	Magnesium	8300		36.0	1000	ug/L
O2495-05	GMW-11	Water	Manganese	442		0.68	10.0	ug/L
O2495-05	GMW-11	Water	Mercury	0.57		0.078	0.20	ug/L
O2495-05	GMW-11	Water	Nickel	41.9		0.85	20.0	ug/L
O2495-05	GMW-11	Water	Potassium	33100		685	1000	ug/L
O2495-05	GMW-11	Water	Silver	5.18		0.66	5.00	ug/L
O2495-05	GMW-11	Water	Sodium	55800		237	1000	ug/L
O2495-05	GMW-11	Water	Vanadium	48.3		3.01	20.0	ug/L
O2495-05	GMW-11	Water	Zinc	235		1.75	20.0	ug/L
O2495-05	GMW-11	Water	Hardness, Total	262000		267	6620	ug/L
Client ID :	**GMW-11**							
O2495-06	GMW-11	Water	Aluminum	108		28.3	50.0	ug/L
O2495-06	GMW-11	Water	Arsenic	3.95	J	3.48	10.0	ug/L
O2495-06	GMW-11	Water	Barium	50.0		3.92	50.0	ug/L
O2495-06	GMW-11	Water	Calcium	83000		47.7	1000	ug/L
O2495-06	GMW-11	Water	Chromium	0.82	J	0.80	5.00	ug/L
O2495-06	GMW-11	Water	Magnesium	1920		36.0	1000	ug/L
O2495-06	GMW-11	Water	Manganese	6.06	J	0.68	10.0	ug/L
O2495-06	GMW-11	Water	Nickel	5.56	J	0.85	20.0	ug/L
O2495-06	GMW-11	Water	Potassium	31500		685	1000	ug/L
O2495-06	GMW-11	Water	Silver	0.74	J	0.66	5.00	ug/L
O2495-06	GMW-11	Water	Sodium	58200		237	1000	ug/L
O2495-06	GMW-11	Water	Vanadium	6.86	J	3.01	20.0	ug/L
O2495-06	GMW-11	Water	Zinc	3.56	J	1.75	20.0	ug/L
Client ID :	**GMW-X**							
O2495-07	GMW-X	Water	Aluminum	17500		28.3	50.0	ug/L
O2495-07	GMW-X	Water	Arsenic	7.38	J	3.48	10.0	ug/L
O2495-07	GMW-X	Water	Barium	234		3.92	50.0	ug/L
O2495-07	GMW-X	Water	Beryllium	0.92	J	0.13	3.00	ug/L
O2495-07	GMW-X	Water	Cadmium	0.37	J	0.10	3.00	ug/L
O2495-07	GMW-X	Water	Calcium	86100		47.7	1000	ug/L
O2495-07	GMW-X	Water	Chromium	31.9		0.80	5.00	ug/L
O2495-07	GMW-X	Water	Cobalt	12.1	J	0.40	15.0	ug/L
O2495-07	GMW-X	Water	Copper	76.1		7.07	10.0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: O2495 **Order ID:** O2495

Client: GEI Consultants, Inc., P.C. **Project ID:** Ferry Point

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
O2495-07	GMW-X	Water	Iron	25300		18.5	50.0	ug/L
O2495-07	GMW-X	Water	Lead	193		3.51	6.00	ug/L
O2495-07	GMW-X	Water	Magnesium	7490		36.0	1000	ug/L
O2495-07	GMW-X	Water	Manganese	401		0.68	10.0	ug/L
O2495-07	GMW-X	Water	Mercury	0.49		0.078	0.20	ug/L
O2495-07	GMW-X	Water	Nickel	39.9		0.85	20.0	ug/L
O2495-07	GMW-X	Water	Potassium	33200		685	1000	ug/L
O2495-07	GMW-X	Water	Silver	4.86	J	0.66	5.00	ug/L
O2495-07	GMW-X	Water	Sodium	56000		237	1000	ug/L
O2495-07	GMW-X	Water	Vanadium	44.2		3.01	20.0	ug/L
O2495-07	GMW-X	Water	Zinc	234		1.75	20.0	ug/L
O2495-07	GMW-X	Water	Hardness, Total	246000		267	6620	ug/L
Client ID :	**GMW-X**							
O2495-08	GMW-X	Water	Aluminum	112		28.3	50.0	ug/L
O2495-08	GMW-X	Water	Barium	42.8	J	3.92	50.0	ug/L
O2495-08	GMW-X	Water	Calcium	78700		47.7	1000	ug/L
O2495-08	GMW-X	Water	Magnesium	1720		36.0	1000	ug/L
O2495-08	GMW-X	Water	Manganese	4.78	J	0.68	10.0	ug/L
O2495-08	GMW-X	Water	Nickel	6.80	J	0.85	20.0	ug/L
O2495-08	GMW-X	Water	Potassium	31300		685	1000	ug/L
O2495-08	GMW-X	Water	Sodium	58100		237	1000	ug/L
O2495-08	GMW-X	Water	Vanadium	7.02	J	3.01	20.0	ug/L
O2495-08	GMW-X	Water	Zinc	5.72	J	1.75	20.0	ug/L
Client ID :	**GMW-5**							
O2495-09	GMW-5	Water	Aluminum	873		28.3	50.0	ug/L
O2495-09	GMW-5	Water	Barium	36.6	J	3.92	50.0	ug/L
O2495-09	GMW-5	Water	Cadmium	3.51		0.10	3.00	ug/L
O2495-09	GMW-5	Water	Calcium	67900		47.7	1000	ug/L
O2495-09	GMW-5	Water	Chromium	1.83	J	0.80	5.00	ug/L
O2495-09	GMW-5	Water	Copper	13.3		7.07	10.0	ug/L
O2495-09	GMW-5	Water	Iron	1930		18.5	50.0	ug/L
O2495-09	GMW-5	Water	Lead	19.2		3.51	6.00	ug/L
O2495-09	GMW-5	Water	Magnesium	5990		36.0	1000	ug/L
O2495-09	GMW-5	Water	Manganese	189		0.68	10.0	ug/L
O2495-09	GMW-5	Water	Nickel	4.64	J	0.85	20.0	ug/L
O2495-09	GMW-5	Water	Potassium	8000		685	1000	ug/L
O2495-09	GMW-5	Water	Sodium	5930		237	1000	ug/L
O2495-09	GMW-5	Water	Vanadium	12.1	J	3.01	20.0	ug/L
O2495-09	GMW-5	Water	Zinc	24.4		1.75	20.0	ug/L
O2495-09	GMW-5	Water	Hardness, Total	194000		267	6620	ug/L

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Hit Summary Sheet
SW-846

SDG No.: O2495 **Order ID:** O2495

Client: GEI Consultants, Inc., P.C. **Project ID:** Ferry Point

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**GMW-5**							
O2495-10	GMW-5	Water	Barium	15.7	J	3.92	50.0	ug/L
O2495-10	GMW-5	Water	Calcium	13300		47.7	1000	ug/L
O2495-10	GMW-5	Water	Magnesium	1360		36.0	1000	ug/L
O2495-10	GMW-5	Water	Manganese	35.9		0.68	10.0	ug/L
O2495-10	GMW-5	Water	Nickel	0.93	J	0.85	20.0	ug/L
O2495-10	GMW-5	Water	Potassium	1530		685	1000	ug/L
O2495-10	GMW-5	Water	Sodium	1120		237	1000	ug/L
O2495-10	GMW-5	Water	Zinc	1.85	J	1.75	20.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01	SDG No.:	O2495
Lab Sample ID:	O2495-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2650		1	28.3	50.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-36-0	Antimony	3.47	J	1	2.06	25.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-38-2	Arsenic	6.06	J	1	3.48	10.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-39-3	Barium	545		1	3.92	50.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-41-7	Beryllium	0.32	J	1	0.13	3.00	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-43-9	Cadmium	2.96	J	1	0.10	3.00	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-70-2	Calcium	129000		1	47.7	1000	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-47-3	Chromium	11.8		1	0.80	5.00	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-48-4	Cobalt	3.58	J	1	0.40	15.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-50-8	Copper	351		1	7.07	10.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
Hardness	Hardness, Total	376000		1	267	6620	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7439-89-6	Iron	14000	N	1	18.5	50.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7439-92-1	Lead	238		1	3.51	6.00	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7439-95-4	Magnesium	13100		1	36.0	1000	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7439-96-5	Manganese	761		1	0.68	10.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7439-97-6	Mercury	0.39		1	0.078	0.20	ug/L	04/28/23 10:35	04/28/23 13:32	SW7470A	
7440-02-0	Nickel	21.3		1	0.85	20.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-09-7	Potassium	16600		1	685	1000	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-22-4	Silver	1.43	J	1	0.66	5.00	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-23-5	Sodium	26500	N	1	237	1000	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-62-2	Vanadium	8.59	J	1	3.01	20.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-66-6	Zinc	592		1	1.75	20.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01	SDG No.:	O2495
Lab Sample ID:	O2495-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	124		1	28.3	50.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-39-3	Barium	429		1	3.92	50.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-43-9	Cadmium	3.00	U	1	0.10	3.00	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-70-2	Calcium	117000		1	47.7	1000	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-47-3	Chromium	5.00	U	1	0.80	5.00	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-48-4	Cobalt	0.81	J	1	0.40	15.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-50-8	Copper	25.4		1	7.07	10.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7439-89-6	Iron	646	N	1	18.5	50.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7439-95-4	Magnesium	12900		1	36.0	1000	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7439-96-5	Manganese	433		1	0.68	10.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	05/02/23 13:30	05/02/23 16:26	SW7470A	
7440-02-0	Nickel	7.25	J	1	0.85	20.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-09-7	Potassium	15900		1	685	1000	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.66	5.00	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-23-5	Sodium	29000	N	1	237	1000	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-62-2	Vanadium	20.0	U	1	3.01	20.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-66-6	Zinc	35.4		1	1.75	20.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02	SDG No.:	O2495
Lab Sample ID:	O2495-03	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5240		1	28.3	50.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-36-0	Antimony	4.92	J	1	2.06	25.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-38-2	Arsenic	20.1		1	3.48	10.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-39-3	Barium	2380		1	3.92	50.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-41-7	Beryllium	0.92	J	1	0.13	3.00	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-43-9	Cadmium	2.84	J	1	0.10	3.00	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-70-2	Calcium	101000		1	47.7	1000	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-47-3	Chromium	23.2		1	0.80	5.00	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-48-4	Cobalt	12.0	J	1	0.40	15.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-50-8	Copper	186		1	7.07	10.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
Hardness	Hardness, Total	374000		1	267	6620	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7439-89-6	Iron	35900	N	1	18.5	50.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7439-92-1	Lead	451		1	3.51	6.00	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7439-95-4	Magnesium	29600		1	36.0	1000	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7439-96-5	Manganese	440		1	0.68	10.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7439-97-6	Mercury	0.74		1	0.078	0.20	ug/L	04/28/23 10:35	04/28/23 13:34	SW7470A	
7440-02-0	Nickel	43.1		1	0.85	20.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-09-7	Potassium	42800		1	685	1000	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-22-4	Silver	8.06		1	0.66	5.00	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-23-5	Sodium	129000	N	1	237	1000	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-62-2	Vanadium	26.8		1	3.01	20.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-66-6	Zinc	1070		1	1.75	20.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010

Color Before:	Gray	Clarity Before:	Clear	Texture:	
Color After:	Gray	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02	SDG No.:	O2495
Lab Sample ID:	O2495-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	112		1	28.3	50.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-39-3	Barium	570		1	3.92	50.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-43-9	Cadmium	3.00	U	1	0.10	3.00	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-70-2	Calcium	88200		1	47.7	1000	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-47-3	Chromium	1.29	J	1	0.80	5.00	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-48-4	Cobalt	1.63	J	1	0.40	15.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-50-8	Copper	28.3		1	7.07	10.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7439-89-6	Iron	92.2	N	1	18.5	50.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7439-95-4	Magnesium	23300		1	36.0	1000	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7439-96-5	Manganese	228		1	0.68	10.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	05/02/23 13:30	05/02/23 16:28	SW7470A	
7440-02-0	Nickel	9.28	J	1	0.85	20.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-09-7	Potassium	31100		1	685	1000	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-22-4	Silver	0.67	J	1	0.66	5.00	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-23-5	Sodium	86200	N	1	237	1000	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-62-2	Vanadium	20.0	U	1	3.01	20.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-66-6	Zinc	13.3	J	1	1.75	20.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11	SDG No.:	O2495
Lab Sample ID:	O2495-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	19300		1	28.3	50.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-36-0	Antimony	2.22	J	1	2.06	25.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-38-2	Arsenic	7.15	J	1	3.48	10.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-39-3	Barium	254		1	3.92	50.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-41-7	Beryllium	1.04	J	1	0.13	3.00	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-43-9	Cadmium	0.49	J	1	0.10	3.00	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-70-2	Calcium	91200		1	47.7	1000	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-47-3	Chromium	33.0		1	0.80	5.00	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-48-4	Cobalt	12.8	J	1	0.40	15.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-50-8	Copper	92.0		1	7.07	10.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
Hardness	Hardness, Total	262000		1	267	6620	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7439-89-6	Iron	26200	N	1	18.5	50.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7439-92-1	Lead	205		1	3.51	6.00	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7439-95-4	Magnesium	8300		1	36.0	1000	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7439-96-5	Manganese	442		1	0.68	10.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7439-97-6	Mercury	0.57		1	0.078	0.20	ug/L	04/28/23 10:35	04/28/23 13:36	SW7470A	
7440-02-0	Nickel	41.9		1	0.85	20.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-09-7	Potassium	33100		1	685	1000	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-22-4	Silver	5.18		1	0.66	5.00	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-23-5	Sodium	55800	N	1	237	1000	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-62-2	Vanadium	48.3		1	3.01	20.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-66-6	Zinc	235		1	1.75	20.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010

Color Before:	Brown	Clarity Before:	Cloudy	Texture:	
Color After:	Brown	Clarity After:	Cloudy	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11	SDG No.:	O2495
Lab Sample ID:	O2495-06	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	108		1	28.3	50.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-38-2	Arsenic	3.95	J	1	3.48	10.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-39-3	Barium	50.0		1	3.92	50.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-43-9	Cadmium	3.00	U	1	0.10	3.00	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-70-2	Calcium	83000		1	47.7	1000	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-47-3	Chromium	0.82	J	1	0.80	5.00	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-48-4	Cobalt	15.0	U	1	0.40	15.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-50-8	Copper	10.0	U	1	7.07	10.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7439-89-6	Iron	50.0	UN	1	18.5	50.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7439-95-4	Magnesium	1920		1	36.0	1000	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7439-96-5	Manganese	6.06	J	1	0.68	10.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	05/02/23 13:30	05/02/23 16:31	SW7470A	
7440-02-0	Nickel	5.56	J	1	0.85	20.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-09-7	Potassium	31500		1	685	1000	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-22-4	Silver	0.74	J	1	0.66	5.00	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-23-5	Sodium	58200	N	1	237	1000	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-62-2	Vanadium	6.86	J	1	3.01	20.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-66-6	Zinc	3.56	J	1	1.75	20.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-X	SDG No.:	O2495
Lab Sample ID:	O2495-07	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	17500		1	28.3	50.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-38-2	Arsenic	7.38	J	1	3.48	10.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-39-3	Barium	234		1	3.92	50.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-41-7	Beryllium	0.92	J	1	0.13	3.00	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-43-9	Cadmium	0.37	J	1	0.10	3.00	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-70-2	Calcium	86100		1	47.7	1000	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-47-3	Chromium	31.9		1	0.80	5.00	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-48-4	Cobalt	12.1	J	1	0.40	15.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-50-8	Copper	76.1		1	7.07	10.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
Hardness	Hardness, Total	246000		1	267	6620	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7439-89-6	Iron	25300	N	1	18.5	50.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7439-92-1	Lead	193		1	3.51	6.00	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7439-95-4	Magnesium	7490		1	36.0	1000	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7439-96-5	Manganese	401		1	0.68	10.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7439-97-6	Mercury	0.49		1	0.078	0.20	ug/L	04/28/23 10:35	04/28/23 13:39	SW7470A	
7440-02-0	Nickel	39.9		1	0.85	20.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-09-7	Potassium	33200		1	685	1000	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-22-4	Silver	4.86	J	1	0.66	5.00	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-23-5	Sodium	56000	N	1	237	1000	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-62-2	Vanadium	44.2		1	3.01	20.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-66-6	Zinc	234		1	1.75	20.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010

Color Before:	Brown	Clarity Before:	Cloudy	Texture:	
Color After:	Brown	Clarity After:	Cloudy	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-X	SDG No.:	O2495
Lab Sample ID:	O2495-08	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	112		1	28.3	50.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-39-3	Barium	42.8	J	1	3.92	50.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-43-9	Cadmium	3.00	U	1	0.10	3.00	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-70-2	Calcium	78700		1	47.7	1000	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-47-3	Chromium	5.00	U	1	0.80	5.00	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-48-4	Cobalt	15.0	U	1	0.40	15.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-50-8	Copper	10.0	U	1	7.07	10.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7439-89-6	Iron	50.0	UN	1	18.5	50.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7439-95-4	Magnesium	1720		1	36.0	1000	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7439-96-5	Manganese	4.78	J	1	0.68	10.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	05/02/23 13:30	05/02/23 16:33	SW7470A	
7440-02-0	Nickel	6.80	J	1	0.85	20.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-09-7	Potassium	31300		1	685	1000	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.66	5.00	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-23-5	Sodium	58100	N	1	237	1000	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-62-2	Vanadium	7.02	J	1	3.01	20.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-66-6	Zinc	5.72	J	1	1.75	20.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-5	SDG No.:	O2495
Lab Sample ID:	O2495-09	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	873		1	28.3	50.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-39-3	Barium	36.6	J	1	3.92	50.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-43-9	Cadmium	3.51		1	0.10	3.00	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-70-2	Calcium	67900		1	47.7	1000	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-47-3	Chromium	1.83	J	1	0.80	5.00	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-48-4	Cobalt	15.0	U	1	0.40	15.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-50-8	Copper	13.3		1	7.07	10.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
Hardness	Hardness, Total	194000		1	267	6620	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7439-89-6	Iron	1930	N	1	18.5	50.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7439-92-1	Lead	19.2		1	3.51	6.00	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7439-95-4	Magnesium	5990		1	36.0	1000	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7439-96-5	Manganese	189		1	0.68	10.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	04/28/23 10:35	04/28/23 13:41	SW7470A	
7440-02-0	Nickel	4.64	J	1	0.85	20.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-09-7	Potassium	8000		1	685	1000	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.66	5.00	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-23-5	Sodium	5930	N	1	237	1000	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-62-2	Vanadium	12.1	J	1	3.01	20.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-66-6	Zinc	24.4		1	1.75	20.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
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J = Estimated Value
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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-5	SDG No.:	O2495
Lab Sample ID:	O2495-10	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	50.0	U	1	28.3	50.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-39-3	Barium	15.7	J	1	3.92	50.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-43-9	Cadmium	3.00	U	1	0.10	3.00	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-70-2	Calcium	13300		1	47.7	1000	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-47-3	Chromium	5.00	U	1	0.80	5.00	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-48-4	Cobalt	15.0	U	1	0.40	15.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-50-8	Copper	10.0	U	1	7.07	10.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7439-89-6	Iron	50.0	UN	1	18.5	50.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7439-95-4	Magnesium	1360		1	36.0	1000	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7439-96-5	Manganese	35.9		1	0.68	10.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	05/02/23 13:30	05/02/23 16:35	SW7470A	
7440-02-0	Nickel	0.93	J	1	0.85	20.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-09-7	Potassium	1530		1	685	1000	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.66	5.00	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-23-5	Sodium	1120	N	1	237	1000	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-62-2	Vanadium	20.0	U	1	3.01	20.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-66-6	Zinc	1.85	J	1	1.75	20.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
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J = Estimated Value
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METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV53	Mercury	4.39	4.0	110	90 - 110	CV	04/28/2023	13:11	LB125204

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV79	Mercury	5.13	5.0	102	90 - 110	CV	04/28/2023	13:16	LB125204
CCV80	Mercury	4.98	5.0	100	90 - 110	CV	04/28/2023	13:43	LB125204
CCV81	Mercury	4.94	5.0	99	90 - 110	CV	04/28/2023	14:14	LB125204
CCV82	Mercury	5.03	5.0	101	90 - 110	CV	04/28/2023	14:30	LB125204

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV58	Mercury	3.76	4.0	94	90 - 110	CV	05/02/2023	16:06	LB125251

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV98	Mercury	4.81	5.0	96	90 - 110	CV	05/02/2023	16:10	LB125251
CCV99	Mercury	4.78	5.0	96	90 - 110	CV	05/02/2023	16:38	LB125251
CCV01	Mercury	4.71	5.0	94	90 - 110	CV	05/02/2023	17:05	LB125251

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2650	2500	106	90 - 110	P	05/02/2023	17:12	LB125255
	Antimony	1020	1000	102	90 - 110	P	05/02/2023	17:12	LB125255
	Arsenic	1090	1000	109	90 - 110	P	05/02/2023	17:12	LB125255
	Barium	531	520	102	90 - 110	P	05/02/2023	17:12	LB125255
	Beryllium	525	510	103	90 - 110	P	05/02/2023	17:12	LB125255
	Cadmium	531	510	104	90 - 110	P	05/02/2023	17:12	LB125255
	Calcium	10500	10000	105	90 - 110	P	05/02/2023	17:12	LB125255
	Chromium	534	520	103	90 - 110	P	05/02/2023	17:12	LB125255
	Cobalt	523	520	100	90 - 110	P	05/02/2023	17:12	LB125255
	Copper	553	510	108	90 - 110	P	05/02/2023	17:12	LB125255
	Iron	10600	10000	106	90 - 110	P	05/02/2023	17:12	LB125255
	Lead	1060	1000	106	90 - 110	P	05/02/2023	17:12	LB125255
	Magnesium	5980	6000	100	90 - 110	P	05/02/2023	17:12	LB125255
	Manganese	532	520	102	90 - 110	P	05/02/2023	17:12	LB125255
	Nickel	524	530	99	90 - 110	P	05/02/2023	17:12	LB125255
	Potassium	10400	9900	105	90 - 110	P	05/02/2023	17:12	LB125255
	Selenium	1100	1000	110	90 - 110	P	05/02/2023	17:12	LB125255
	Silver	267	250	107	90 - 110	P	05/02/2023	17:12	LB125255
	Sodium	9990	10000	100	90 - 110	P	05/02/2023	17:12	LB125255
	Thallium	1090	1000	109	90 - 110	P	05/02/2023	17:12	LB125255
	Vanadium	509	500	102	90 - 110	P	05/02/2023	17:12	LB125255
	Zinc	1080	1000	108	90 - 110	P	05/02/2023	17:12	LB125255

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9720	10000	97	90 - 110	P	05/02/2023	17:31	LB125255
	Antimony	4970	5000	100	90 - 110	P	05/02/2023	17:31	LB125255
	Arsenic	4910	5000	98	90 - 110	P	05/02/2023	17:31	LB125255
	Barium	9380	10000	94	90 - 110	P	05/02/2023	17:31	LB125255
	Beryllium	241	250	96	90 - 110	P	05/02/2023	17:31	LB125255
	Cadmium	2410	2500	96	90 - 110	P	05/02/2023	17:31	LB125255
	Calcium	24100	25000	96	90 - 110	P	05/02/2023	17:31	LB125255
	Chromium	934	1000	93	90 - 110	P	05/02/2023	17:31	LB125255
	Cobalt	2440	2500	98	90 - 110	P	05/02/2023	17:31	LB125255
	Copper	1240	1250	99	90 - 110	P	05/02/2023	17:31	LB125255
	Iron	4830	5000	96	90 - 110	P	05/02/2023	17:31	LB125255
	Lead	4870	5000	98	90 - 110	P	05/02/2023	17:31	LB125255
	Magnesium	23000	25000	92	90 - 110	P	05/02/2023	17:31	LB125255
	Manganese	2370	2500	95	90 - 110	P	05/02/2023	17:31	LB125255
	Nickel	2450	2500	98	90 - 110	P	05/02/2023	17:31	LB125255
	Potassium	24100	25000	96	90 - 110	P	05/02/2023	17:31	LB125255
	Selenium	5010	5000	100	90 - 110	P	05/02/2023	17:31	LB125255
	Silver	1220	1250	98	90 - 110	P	05/02/2023	17:31	LB125255
	Sodium	23300	25000	93	90 - 110	P	05/02/2023	17:31	LB125255
	Thallium	4890	5000	98	90 - 110	P	05/02/2023	17:31	LB125255
	Vanadium	2310	2500	92	90 - 110	P	05/02/2023	17:31	LB125255
	Zinc	2460	2500	98	90 - 110	P	05/02/2023	17:31	LB125255

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV01	Aluminum	102	100	102	80 - 120	P	05/02/2023	17:35	LB125255
	Antimony	48.7	50.0	97	80 - 120	P	05/02/2023	17:35	LB125255
	Arsenic	21.8	20.0	109	80 - 120	P	05/02/2023	17:35	LB125255
	Barium	98.2	100	98	80 - 120	P	05/02/2023	17:35	LB125255
	Beryllium	6.31	6.0	105	80 - 120	P	05/02/2023	17:35	LB125255
	Cadmium	6.35	6.0	106	80 - 120	P	05/02/2023	17:35	LB125255
	Calcium	1960	2000	98	80 - 120	P	05/02/2023	17:35	LB125255
	Chromium	9.99	10.0	100	80 - 120	P	05/02/2023	17:35	LB125255
	Cobalt	29.1	30.0	97	80 - 120	P	05/02/2023	17:35	LB125255
	Copper	22.9	20.0	115	80 - 120	P	05/02/2023	17:35	LB125255
	Iron	99.2	100	99	80 - 120	P	05/02/2023	17:35	LB125255
	Lead	13.4	12.0	112	80 - 120	P	05/02/2023	17:35	LB125255
	Magnesium	2080	2000	104	80 - 120	P	05/02/2023	17:35	LB125255
	Manganese	21.3	20.0	106	80 - 120	P	05/02/2023	17:35	LB125255
	Nickel	39.0	40.0	98	80 - 120	P	05/02/2023	17:35	LB125255
	Potassium	1930	2000	96	80 - 120	P	05/02/2023	17:35	LB125255
	Selenium	21.0	20.0	105	80 - 120	P	05/02/2023	17:35	LB125255
	Silver	10.7	10.0	107	80 - 120	P	05/02/2023	17:35	LB125255
	Sodium	1830	2000	92	80 - 120	P	05/02/2023	17:35	LB125255
	Thallium	40.2	40.0	101	80 - 120	P	05/02/2023	17:35	LB125255
	Vanadium	36.9	40.0	92	80 - 120	P	05/02/2023	17:35	LB125255
	Zinc	44.7	40.0	112	80 - 120	P	05/02/2023	17:35	LB125255

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Aluminum	9760	10000	98	90 - 110	P	05/02/2023	18:38	LB125255
	Antimony	4990	5000	100	90 - 110	P	05/02/2023	18:38	LB125255
	Arsenic	4930	5000	99	90 - 110	P	05/02/2023	18:38	LB125255
	Barium	9480	10000	95	90 - 110	P	05/02/2023	18:38	LB125255
	Beryllium	236	250	94	90 - 110	P	05/02/2023	18:38	LB125255
	Cadmium	2410	2500	96	90 - 110	P	05/02/2023	18:38	LB125255
	Calcium	24100	25000	96	90 - 110	P	05/02/2023	18:38	LB125255
	Chromium	973	1000	97	90 - 110	P	05/02/2023	18:38	LB125255
	Cobalt	2430	2500	97	90 - 110	P	05/02/2023	18:38	LB125255
	Copper	1240	1250	99	90 - 110	P	05/02/2023	18:38	LB125255
	Iron	4800	5000	96	90 - 110	P	05/02/2023	18:38	LB125255
	Lead	4850	5000	97	90 - 110	P	05/02/2023	18:38	LB125255
	Magnesium	25400	25000	102	90 - 110	P	05/02/2023	18:38	LB125255
	Manganese	2370	2500	95	90 - 110	P	05/02/2023	18:38	LB125255
	Nickel	2440	2500	98	90 - 110	P	05/02/2023	18:38	LB125255
	Potassium	24100	25000	96	90 - 110	P	05/02/2023	18:38	LB125255
	Selenium	5030	5000	101	90 - 110	P	05/02/2023	18:38	LB125255
	Silver	1200	1250	96	90 - 110	P	05/02/2023	18:38	LB125255
	Sodium	22800	25000	91	90 - 110	P	05/02/2023	18:38	LB125255
	Thallium	4850	5000	97	90 - 110	P	05/02/2023	18:38	LB125255
	Vanadium	2310	2500	92	90 - 110	P	05/02/2023	18:38	LB125255
	Zinc	2380	2500	95	90 - 110	P	05/02/2023	18:38	LB125255
CCV03	Aluminum	9600	10000	96	90 - 110	P	05/02/2023	19:25	LB125255
	Antimony	5010	5000	100	90 - 110	P	05/02/2023	19:25	LB125255
	Arsenic	4960	5000	99	90 - 110	P	05/02/2023	19:25	LB125255
	Barium	9360	10000	94	90 - 110	P	05/02/2023	19:25	LB125255
	Beryllium	237	250	95	90 - 110	P	05/02/2023	19:25	LB125255
	Cadmium	2440	2500	97	90 - 110	P	05/02/2023	19:25	LB125255
	Calcium	23900	25000	96	90 - 110	P	05/02/2023	19:25	LB125255
	Chromium	970	1000	97	90 - 110	P	05/02/2023	19:25	LB125255
	Cobalt	2460	2500	98	90 - 110	P	05/02/2023	19:25	LB125255
	Copper	1250	1250	100	90 - 110	P	05/02/2023	19:25	LB125255
	Iron	4830	5000	96	90 - 110	P	05/02/2023	19:25	LB125255
	Lead	4900	5000	98	90 - 110	P	05/02/2023	19:25	LB125255

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV03	Magnesium	25200	25000	101	90 - 110	P	05/02/2023	19:25	LB125255
	Manganese	2340	2500	94	90 - 110	P	05/02/2023	19:25	LB125255
	Nickel	2460	2500	99	90 - 110	P	05/02/2023	19:25	LB125255
	Potassium	24000	25000	96	90 - 110	P	05/02/2023	19:25	LB125255
	Selenium	5060	5000	101	90 - 110	P	05/02/2023	19:25	LB125255
	Silver	1210	1250	97	90 - 110	P	05/02/2023	19:25	LB125255
	Sodium	24600	25000	98	90 - 110	P	05/02/2023	19:25	LB125255
	Thallium	4900	5000	98	90 - 110	P	05/02/2023	19:25	LB125255
	Vanadium	2280	2500	91	90 - 110	P	05/02/2023	19:25	LB125255
	Zinc	2410	2500	97	90 - 110	P	05/02/2023	19:25	LB125255
CCV04	Aluminum	9580	10000	96	90 - 110	P	05/02/2023	20:11	LB125255
	Antimony	4810	5000	96	90 - 110	P	05/02/2023	20:11	LB125255
	Arsenic	4870	5000	97	90 - 110	P	05/02/2023	20:11	LB125255
	Barium	9180	10000	92	90 - 110	P	05/02/2023	20:11	LB125255
	Beryllium	238	250	95	90 - 110	P	05/02/2023	20:11	LB125255
	Cadmium	2450	2500	98	90 - 110	P	05/02/2023	20:11	LB125255
	Calcium	23900	25000	95	90 - 110	P	05/02/2023	20:11	LB125255
	Chromium	1020	1000	102	90 - 110	P	05/02/2023	20:11	LB125255
	Cobalt	2430	2500	97	90 - 110	P	05/02/2023	20:11	LB125255
	Copper	1240	1250	99	90 - 110	P	05/02/2023	20:11	LB125255
	Iron	4980	5000	100	90 - 110	P	05/02/2023	20:11	LB125255
	Lead	4820	5000	96	90 - 110	P	05/02/2023	20:11	LB125255
	Magnesium	24600	25000	98	90 - 110	P	05/02/2023	20:11	LB125255
	Manganese	2310	2500	92	90 - 110	P	05/02/2023	20:11	LB125255
	Nickel	2400	2500	96	90 - 110	P	05/02/2023	20:11	LB125255
	Potassium	25100	25000	100	90 - 110	P	05/02/2023	20:11	LB125255
	Selenium	4870	5000	97	90 - 110	P	05/02/2023	20:11	LB125255
	Silver	1250	1250	100	90 - 110	P	05/02/2023	20:11	LB125255
	Sodium	27500	25000	110	90 - 110	P	05/02/2023	20:11	LB125255
	Thallium	4810	5000	96	90 - 110	P	05/02/2023	20:11	LB125255
	Vanadium	2260	2500	90	90 - 110	P	05/02/2023	20:11	LB125255
	Zinc	2550	2500	102	90 - 110	P	05/02/2023	20:11	LB125255
CCV05	Aluminum	9440	10000	94	90 - 110	P	05/02/2023	20:57	LB125255
	Antimony	4710	5000	94	90 - 110	P	05/02/2023	20:57	LB125255

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Arsenic	4780	5000	96	90 - 110	P	05/02/2023	20:57	LB125255
	Barium	9020	10000	90	90 - 110	P	05/02/2023	20:57	LB125255
	Beryllium	234	250	93	90 - 110	P	05/02/2023	20:57	LB125255
	Cadmium	2450	2500	98	90 - 110	P	05/02/2023	20:57	LB125255
	Calcium	23500	25000	94	90 - 110	P	05/02/2023	20:57	LB125255
	Chromium	977	1000	98	90 - 110	P	05/02/2023	20:57	LB125255
	Cobalt	2420	2500	97	90 - 110	P	05/02/2023	20:57	LB125255
	Copper	1230	1250	98	90 - 110	P	05/02/2023	20:57	LB125255
	Iron	4700	5000	94	90 - 110	P	05/02/2023	20:57	LB125255
	Lead	4800	5000	96	90 - 110	P	05/02/2023	20:57	LB125255
	Magnesium	24100	25000	96	90 - 110	P	05/02/2023	20:57	LB125255
	Manganese	2270	2500	91	90 - 110	P	05/02/2023	20:57	LB125255
	Nickel	2380	2500	95	90 - 110	P	05/02/2023	20:57	LB125255
	Potassium	23500	25000	94	90 - 110	P	05/02/2023	20:57	LB125255
	Selenium	4750	5000	95	90 - 110	P	05/02/2023	20:57	LB125255
	Silver	1180	1250	94	90 - 110	P	05/02/2023	20:57	LB125255
	Sodium	25500	25000	102	90 - 110	P	05/02/2023	20:57	LB125255
	Thallium	4780	5000	96	90 - 110	P	05/02/2023	20:57	LB125255
	Vanadium	2220	2500	89	90 - 110	P	05/02/2023	20:57	LB125255
	Zinc	2410	2500	96	90 - 110	P	05/02/2023	20:57	LB125255
CCV06	Aluminum	9560	10000	96	90 - 110	P	05/02/2023	21:45	LB125255
	Antimony	4640	5000	93	90 - 110	P	05/02/2023	21:45	LB125255
	Arsenic	4750	5000	95	90 - 110	P	05/02/2023	21:45	LB125255
	Barium	8890	10000	89	90 - 110	P	05/02/2023	21:45	LB125255
	Beryllium	236	250	94	90 - 110	P	05/02/2023	21:45	LB125255
	Cadmium	2430	2500	97	90 - 110	P	05/02/2023	21:45	LB125255
	Calcium	23800	25000	95	90 - 110	P	05/02/2023	21:45	LB125255
	Chromium	950	1000	95	90 - 110	P	05/02/2023	21:45	LB125255
	Cobalt	2400	2500	96	90 - 110	P	05/02/2023	21:45	LB125255
	Copper	1220	1250	98	90 - 110	P	05/02/2023	21:45	LB125255
	Iron	4570	5000	91	90 - 110	P	05/02/2023	21:45	LB125255
	Lead	4740	5000	95	90 - 110	P	05/02/2023	21:45	LB125255
	Magnesium	24000	25000	96	90 - 110	P	05/02/2023	21:45	LB125255
	Manganese	2280	2500	91	90 - 110	P	05/02/2023	21:45	LB125255

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06	Nickel	2350	2500	94	90 - 110	P	05/02/2023	21:45	LB125255
	Potassium	23100	25000	92	90 - 110	P	05/02/2023	21:45	LB125255
	Selenium	4700	5000	94	90 - 110	P	05/02/2023	21:45	LB125255
	Silver	1150	1250	92	90 - 110	P	05/02/2023	21:45	LB125255
	Sodium	24400	25000	98	90 - 110	P	05/02/2023	21:45	LB125255
	Thallium	4720	5000	94	90 - 110	P	05/02/2023	21:45	LB125255
	Vanadium	2210	2500	89	90 - 110	P	05/02/2023	21:45	LB125255
	Zinc	2360	2500	94	90 - 110	P	05/02/2023	21:45	LB125255
CCV07	Aluminum	9730	10000	97	90 - 110	P	05/02/2023	22:19	LB125255
	Antimony	4700	5000	94	90 - 110	P	05/02/2023	22:19	LB125255
	Arsenic	4800	5000	96	90 - 110	P	05/02/2023	22:19	LB125255
	Barium	9070	10000	91	90 - 110	P	05/02/2023	22:19	LB125255
	Beryllium	240	250	96	90 - 110	P	05/02/2023	22:19	LB125255
	Cadmium	2460	2500	98	90 - 110	P	05/02/2023	22:19	LB125255
	Calcium	24200	25000	97	90 - 110	P	05/02/2023	22:19	LB125255
	Chromium	947	1000	95	90 - 110	P	05/02/2023	22:19	LB125255
	Cobalt	2430	2500	97	90 - 110	P	05/02/2023	22:19	LB125255
	Copper	1230	1250	99	90 - 110	P	05/02/2023	22:19	LB125255
	Iron	4600	5000	92	90 - 110	P	05/02/2023	22:19	LB125255
	Lead	4810	5000	96	90 - 110	P	05/02/2023	22:19	LB125255
	Magnesium	24300	25000	97	90 - 110	P	05/02/2023	22:19	LB125255
	Manganese	2320	2500	93	90 - 110	P	05/02/2023	22:19	LB125255
	Nickel	2380	2500	95	90 - 110	P	05/02/2023	22:19	LB125255
	Potassium	23200	25000	93	90 - 110	P	05/02/2023	22:19	LB125255
	Selenium	4740	5000	95	90 - 110	P	05/02/2023	22:19	LB125255
	Silver	1150	1250	92	90 - 110	P	05/02/2023	22:19	LB125255
	Sodium	23900	25000	96	90 - 110	P	05/02/2023	22:19	LB125255
	Thallium	4810	5000	96	90 - 110	P	05/02/2023	22:19	LB125255
	Vanadium	2250	2500	90	90 - 110	P	05/02/2023	22:19	LB125255
	Zinc	2360	2500	94	90 - 110	P	05/02/2023	22:19	LB125255

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2610	2500	104	90 - 110	P	05/03/2023	14:04	LB125269
	Antimony	1040	1000	104	90 - 110	P	05/03/2023	14:04	LB125269
	Arsenic	1080	1000	108	90 - 110	P	05/03/2023	14:04	LB125269
	Barium	555	520	107	90 - 110	P	05/03/2023	14:04	LB125269
	Beryllium	515	510	101	90 - 110	P	05/03/2023	14:04	LB125269
	Cadmium	521	510	102	90 - 110	P	05/03/2023	14:04	LB125269
	Calcium	10100	10000	100	90 - 110	P	05/03/2023	14:04	LB125269
	Chromium	492	520	95	90 - 110	P	05/03/2023	14:04	LB125269
	Cobalt	524	520	101	90 - 110	P	05/03/2023	14:04	LB125269
	Copper	548	510	108	90 - 110	P	05/03/2023	14:04	LB125269
	Iron	9830	10000	98	90 - 110	P	05/03/2023	14:04	LB125269
	Lead	1060	1000	106	90 - 110	P	05/03/2023	14:04	LB125269
	Magnesium	6080	6000	101	90 - 110	P	05/03/2023	14:04	LB125269
	Manganese	551	520	106	90 - 110	P	05/03/2023	14:04	LB125269
	Nickel	530	530	100	90 - 110	P	05/03/2023	14:04	LB125269
	Potassium	9740	9900	98	90 - 110	P	05/03/2023	14:04	LB125269
	Selenium	1090	1000	109	90 - 110	P	05/03/2023	14:04	LB125269
	Silver	239	250	96	90 - 110	P	05/03/2023	14:04	LB125269
	Sodium	9080	10000	91	90 - 110	P	05/03/2023	14:04	LB125269
	Thallium	1080	1000	108	90 - 110	P	05/03/2023	14:04	LB125269
	Vanadium	509	500	102	90 - 110	P	05/03/2023	14:04	LB125269
	Zinc	1050	1000	105	90 - 110	P	05/03/2023	14:04	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9750	10000	98	90 - 110	P	05/03/2023	14:31	LB125269
	Antimony	5000	5000	100	90 - 110	P	05/03/2023	14:31	LB125269
	Arsenic	4870	5000	97	90 - 110	P	05/03/2023	14:31	LB125269
	Barium	10100	10000	101	90 - 110	P	05/03/2023	14:31	LB125269
	Beryllium	238	250	95	90 - 110	P	05/03/2023	14:31	LB125269
	Cadmium	2390	2500	96	90 - 110	P	05/03/2023	14:31	LB125269
	Calcium	23600	25000	95	90 - 110	P	05/03/2023	14:31	LB125269
	Chromium	953	1000	95	90 - 110	P	05/03/2023	14:31	LB125269
	Cobalt	2450	2500	98	90 - 110	P	05/03/2023	14:31	LB125269
	Copper	1230	1250	98	90 - 110	P	05/03/2023	14:31	LB125269
	Iron	4840	5000	97	90 - 110	P	05/03/2023	14:31	LB125269
	Lead	4880	5000	98	90 - 110	P	05/03/2023	14:31	LB125269
	Magnesium	26300	25000	105	90 - 110	P	05/03/2023	14:31	LB125269
	Manganese	2520	2500	101	90 - 110	P	05/03/2023	14:31	LB125269
	Nickel	2470	2500	99	90 - 110	P	05/03/2023	14:31	LB125269
	Potassium	24200	25000	97	90 - 110	P	05/03/2023	14:31	LB125269
	Selenium	4860	5000	97	90 - 110	P	05/03/2023	14:31	LB125269
	Silver	1130	1250	90	90 - 110	P	05/03/2023	14:31	LB125269
	Sodium	25500	25000	102	90 - 110	P	05/03/2023	14:31	LB125269
	Thallium	4870	5000	97	90 - 110	P	05/03/2023	14:31	LB125269
	Vanadium	2410	2500	96	90 - 110	P	05/03/2023	14:31	LB125269
	Zinc	2490	2500	99	90 - 110	P	05/03/2023	14:31	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV01	Aluminum	99.2	100	99	80 - 120	P	05/03/2023	14:35	LB125269
	Antimony	53.9	50.0	108	80 - 120	P	05/03/2023	14:35	LB125269
	Arsenic	23.0	20.0	115	80 - 120	P	05/03/2023	14:35	LB125269
	Barium	112	100	112	80 - 120	P	05/03/2023	14:35	LB125269
	Beryllium	6.29	6.0	105	80 - 120	P	05/03/2023	14:35	LB125269
	Cadmium	6.52	6.0	109	80 - 120	P	05/03/2023	14:35	LB125269
	Calcium	1950	2000	98	80 - 120	P	05/03/2023	14:35	LB125269
	Chromium	9.71	10.0	97	80 - 120	P	05/03/2023	14:35	LB125269
	Cobalt	30.8	30.0	103	80 - 120	P	05/03/2023	14:35	LB125269
	Copper	23.6	20.0	118	80 - 120	P	05/03/2023	14:35	LB125269
	Iron	104	100	104	80 - 120	P	05/03/2023	14:35	LB125269
	Lead	12.7	12.0	106	80 - 120	P	05/03/2023	14:35	LB125269
	Magnesium	2190	2000	109	80 - 120	P	05/03/2023	14:35	LB125269
	Manganese	22.8	20.0	114	80 - 120	P	05/03/2023	14:35	LB125269
	Nickel	40.9	40.0	102	80 - 120	P	05/03/2023	14:35	LB125269
	Potassium	1940	2000	97	80 - 120	P	05/03/2023	14:35	LB125269
	Selenium	22.2	20.0	111	80 - 120	P	05/03/2023	14:35	LB125269
	Silver	10.9	10.0	109	80 - 120	P	05/03/2023	14:35	LB125269
	Sodium	1720	2000	86	80 - 120	P	05/03/2023	14:35	LB125269
	Thallium	43.2	40.0	108	80 - 120	P	05/03/2023	14:35	LB125269
	Vanadium	40.7	40.0	102	80 - 120	P	05/03/2023	14:35	LB125269
	Zinc	46.9	40.0	117	80 - 120	P	05/03/2023	14:35	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Aluminum	9680	10000	97	90 - 110	P	05/03/2023	15:21	LB125269
	Antimony	5010	5000	100	90 - 110	P	05/03/2023	15:21	LB125269
	Arsenic	4820	5000	96	90 - 110	P	05/03/2023	15:21	LB125269
	Barium	10100	10000	101	90 - 110	P	05/03/2023	15:21	LB125269
	Beryllium	237	250	95	90 - 110	P	05/03/2023	15:21	LB125269
	Cadmium	2330	2500	93	90 - 110	P	05/03/2023	15:21	LB125269
	Calcium	23500	25000	94	90 - 110	P	05/03/2023	15:21	LB125269
	Chromium	941	1000	94	90 - 110	P	05/03/2023	15:21	LB125269
	Cobalt	2410	2500	96	90 - 110	P	05/03/2023	15:21	LB125269
	Copper	1210	1250	97	90 - 110	P	05/03/2023	15:21	LB125269
	Iron	4750	5000	95	90 - 110	P	05/03/2023	15:21	LB125269
	Lead	4810	5000	96	90 - 110	P	05/03/2023	15:21	LB125269
	Magnesium	26400	25000	106	90 - 110	P	05/03/2023	15:21	LB125269
	Manganese	2530	2500	101	90 - 110	P	05/03/2023	15:21	LB125269
	Nickel	2450	2500	98	90 - 110	P	05/03/2023	15:21	LB125269
	Potassium	23900	25000	96	90 - 110	P	05/03/2023	15:21	LB125269
	Selenium	4760	5000	95	90 - 110	P	05/03/2023	15:21	LB125269
	Silver	1130	1250	90	90 - 110	P	05/03/2023	15:21	LB125269
	Sodium	24700	25000	99	90 - 110	P	05/03/2023	15:21	LB125269
	Thallium	4780	5000	96	90 - 110	P	05/03/2023	15:21	LB125269
	Vanadium	2400	2500	96	90 - 110	P	05/03/2023	15:21	LB125269
	Zinc	2460	2500	98	90 - 110	P	05/03/2023	15:21	LB125269
CCV03	Aluminum	9780	10000	98	90 - 110	P	05/03/2023	16:39	LB125269
	Antimony	5290	5000	106	90 - 110	P	05/03/2023	16:39	LB125269
	Arsenic	5000	5000	100	90 - 110	P	05/03/2023	16:39	LB125269
	Barium	10500	10000	105	90 - 110	P	05/03/2023	16:39	LB125269
	Beryllium	237	250	95	90 - 110	P	05/03/2023	16:39	LB125269
	Cadmium	2390	2500	96	90 - 110	P	05/03/2023	16:39	LB125269
	Calcium	23800	25000	95	90 - 110	P	05/03/2023	16:39	LB125269
	Chromium	947	1000	95	90 - 110	P	05/03/2023	16:39	LB125269
	Cobalt	2500	2500	100	90 - 110	P	05/03/2023	16:39	LB125269
	Copper	1250	1250	100	90 - 110	P	05/03/2023	16:39	LB125269
	Iron	5000	5000	100	90 - 110	P	05/03/2023	16:39	LB125269
	Lead	5000	5000	100	90 - 110	P	05/03/2023	16:39	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV03	Magnesium	27300	25000	109	90 - 110	P	05/03/2023	16:39	LB125269
	Manganese	2610	2500	104	90 - 110	P	05/03/2023	16:39	LB125269
	Nickel	2560	2500	103	90 - 110	P	05/03/2023	16:39	LB125269
	Potassium	24600	25000	98	90 - 110	P	05/03/2023	16:39	LB125269
	Selenium	4910	5000	98	90 - 110	P	05/03/2023	16:39	LB125269
	Silver	1150	1250	92	90 - 110	P	05/03/2023	16:39	LB125269
	Sodium	25500	25000	102	90 - 110	P	05/03/2023	16:39	LB125269
	Thallium	4930	5000	98	90 - 110	P	05/03/2023	16:39	LB125269
	Vanadium	2460	2500	98	90 - 110	P	05/03/2023	16:39	LB125269
	Zinc	2500	2500	100	90 - 110	P	05/03/2023	16:39	LB125269
CCV04	Aluminum	9900	10000	99	90 - 110	P	05/03/2023	17:30	LB125269
	Antimony	5200	5000	104	90 - 110	P	05/03/2023	17:30	LB125269
	Arsenic	4910	5000	98	90 - 110	P	05/03/2023	17:30	LB125269
	Barium	10500	10000	105	90 - 110	P	05/03/2023	17:30	LB125269
	Beryllium	238	250	95	90 - 110	P	05/03/2023	17:30	LB125269
	Cadmium	2340	2500	94	90 - 110	P	05/03/2023	17:30	LB125269
	Calcium	23900	25000	96	90 - 110	P	05/03/2023	17:30	LB125269
	Chromium	950	1000	95	90 - 110	P	05/03/2023	17:30	LB125269
	Cobalt	2460	2500	98	90 - 110	P	05/03/2023	17:30	LB125269
	Copper	1230	1250	98	90 - 110	P	05/03/2023	17:30	LB125269
	Iron	5020	5000	100	90 - 110	P	05/03/2023	17:30	LB125269
	Lead	4910	5000	98	90 - 110	P	05/03/2023	17:30	LB125269
	Magnesium	27400	25000	110	90 - 110	P	05/03/2023	17:30	LB125269
	Manganese	2620	2500	105	90 - 110	P	05/03/2023	17:30	LB125269
	Nickel	2510	2500	100	90 - 110	P	05/03/2023	17:30	LB125269
	Potassium	24800	25000	99	90 - 110	P	05/03/2023	17:30	LB125269
	Selenium	4830	5000	97	90 - 110	P	05/03/2023	17:30	LB125269
	Silver	1140	1250	92	90 - 110	P	05/03/2023	17:30	LB125269
	Sodium	25500	25000	102	90 - 110	P	05/03/2023	17:30	LB125269
	Thallium	4840	5000	97	90 - 110	P	05/03/2023	17:30	LB125269
	Vanadium	2460	2500	99	90 - 110	P	05/03/2023	17:30	LB125269
	Zinc	2520	2500	101	90 - 110	P	05/03/2023	17:30	LB125269
CCV05	Aluminum	10100	10000	101	90 - 110	P	05/03/2023	18:16	LB125269
	Antimony	5360	5000	107	90 - 110	P	05/03/2023	18:16	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Arsenic	5070	5000	101	90 - 110	P	05/03/2023	18:16	LB125269
	Barium	10800	10000	108	90 - 110	P	05/03/2023	18:16	LB125269
	Beryllium	244	250	98	90 - 110	P	05/03/2023	18:16	LB125269
	Cadmium	2430	2500	97	90 - 110	P	05/03/2023	18:16	LB125269
	Calcium	24400	25000	98	90 - 110	P	05/03/2023	18:16	LB125269
	Chromium	911	1000	91	90 - 110	P	05/03/2023	18:16	LB125269
	Cobalt	2550	2500	102	90 - 110	P	05/03/2023	18:16	LB125269
	Copper	1270	1250	102	90 - 110	P	05/03/2023	18:16	LB125269
	Iron	4940	5000	99	90 - 110	P	05/03/2023	18:16	LB125269
	Lead	5090	5000	102	90 - 110	P	05/03/2023	18:16	LB125269
	Magnesium	26000	25000	104	90 - 110	P	05/03/2023	18:16	LB125269
	Manganese	2710	2500	108	90 - 110	P	05/03/2023	18:16	LB125269
	Nickel	2610	2500	104	90 - 110	P	05/03/2023	18:16	LB125269
	Potassium	24800	25000	99	90 - 110	P	05/03/2023	18:16	LB125269
	Selenium	4980	5000	100	90 - 110	P	05/03/2023	18:16	LB125269
	Silver	1140	1250	91	90 - 110	P	05/03/2023	18:16	LB125269
	Sodium	23300	25000	93	90 - 110	P	05/03/2023	18:16	LB125269
	Thallium	5020	5000	100	90 - 110	P	05/03/2023	18:16	LB125269
	Vanadium	2530	2500	101	90 - 110	P	05/03/2023	18:16	LB125269
	Zinc	2550	2500	102	90 - 110	P	05/03/2023	18:16	LB125269
CCV06	Aluminum	9940	10000	99	90 - 110	P	05/03/2023	19:03	LB125269
	Antimony	5320	5000	106	90 - 110	P	05/03/2023	19:03	LB125269
	Arsenic	5060	5000	101	90 - 110	P	05/03/2023	19:03	LB125269
	Barium	10600	10000	106	90 - 110	P	05/03/2023	19:03	LB125269
	Beryllium	243	250	97	90 - 110	P	05/03/2023	19:03	LB125269
	Cadmium	2460	2500	98	90 - 110	P	05/03/2023	19:03	LB125269
	Calcium	24000	25000	96	90 - 110	P	05/03/2023	19:03	LB125269
	Chromium	904	1000	90	90 - 110	P	05/03/2023	19:03	LB125269
	Cobalt	2570	2500	103	90 - 110	P	05/03/2023	19:03	LB125269
	Copper	1280	1250	102	90 - 110	P	05/03/2023	19:03	LB125269
	Iron	4810	5000	96	90 - 110	P	05/03/2023	19:03	LB125269
	Lead	5120	5000	102	90 - 110	P	05/03/2023	19:03	LB125269
	Magnesium	25500	25000	102	90 - 110	P	05/03/2023	19:03	LB125269
	Manganese	2670	2500	107	90 - 110	P	05/03/2023	19:03	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06	Nickel	2620	2500	105	90 - 110	P	05/03/2023	19:03	LB125269
	Potassium	24200	25000	97	90 - 110	P	05/03/2023	19:03	LB125269
	Selenium	4960	5000	99	90 - 110	P	05/03/2023	19:03	LB125269
	Silver	1250	1250	100	90 - 110	P	05/03/2023	19:03	LB125269
	Sodium	22500	25000	90	90 - 110	P	05/03/2023	19:03	LB125269
	Thallium	5040	5000	101	90 - 110	P	05/03/2023	19:03	LB125269
	Vanadium	2470	2500	99	90 - 110	P	05/03/2023	19:03	LB125269
	Zinc	2560	2500	102	90 - 110	P	05/03/2023	19:03	LB125269

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2590	2500	104	90 - 110	P	05/04/2023	13:41	LB125287
	Antimony	1000	1000	100	90 - 110	P	05/04/2023	13:41	LB125287
	Arsenic	1050	1000	105	90 - 110	P	05/04/2023	13:41	LB125287
	Barium	525	520	101	90 - 110	P	05/04/2023	13:41	LB125287
	Beryllium	524	510	103	90 - 110	P	05/04/2023	13:41	LB125287
	Cadmium	518	510	102	90 - 110	P	05/04/2023	13:41	LB125287
	Calcium	10200	10000	102	90 - 110	P	05/04/2023	13:41	LB125287
	Chromium	521	520	100	90 - 110	P	05/04/2023	13:41	LB125287
	Cobalt	509	520	98	90 - 110	P	05/04/2023	13:41	LB125287
	Copper	535	510	105	90 - 110	P	05/04/2023	13:41	LB125287
	Iron	9840	10000	98	90 - 110	P	05/04/2023	13:41	LB125287
	Lead	1040	1000	104	90 - 110	P	05/04/2023	13:41	LB125287
	Magnesium	6060	6000	101	90 - 110	P	05/04/2023	13:41	LB125287
	Manganese	528	520	102	90 - 110	P	05/04/2023	13:41	LB125287
	Nickel	511	530	96	90 - 110	P	05/04/2023	13:41	LB125287
	Potassium	9650	9900	98	90 - 110	P	05/04/2023	13:41	LB125287
	Selenium	1070	1000	107	90 - 110	P	05/04/2023	13:41	LB125287
	Silver	253	250	101	90 - 110	P	05/04/2023	13:41	LB125287
	Sodium	9520	10000	95	90 - 110	P	05/04/2023	13:41	LB125287
	Thallium	1070	1000	107	90 - 110	P	05/04/2023	13:41	LB125287
	Vanadium	508	500	102	90 - 110	P	05/04/2023	13:41	LB125287
	Zinc	1030	1000	103	90 - 110	P	05/04/2023	13:41	LB125287

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9590	10000	96	90 - 110	P	05/04/2023	14:10	LB125287
	Antimony	5000	5000	100	90 - 110	P	05/04/2023	14:10	LB125287
	Arsenic	5100	5000	102	90 - 110	P	05/04/2023	14:10	LB125287
	Barium	9860	10000	99	90 - 110	P	05/04/2023	14:10	LB125287
	Beryllium	242	250	97	90 - 110	P	05/04/2023	14:10	LB125287
	Cadmium	2390	2500	96	90 - 110	P	05/04/2023	14:10	LB125287
	Calcium	23700	25000	95	90 - 110	P	05/04/2023	14:10	LB125287
	Chromium	956	1000	96	90 - 110	P	05/04/2023	14:10	LB125287
	Cobalt	2440	2500	98	90 - 110	P	05/04/2023	14:10	LB125287
	Copper	1250	1250	100	90 - 110	P	05/04/2023	14:10	LB125287
	Iron	4870	5000	97	90 - 110	P	05/04/2023	14:10	LB125287
	Lead	4880	5000	98	90 - 110	P	05/04/2023	14:10	LB125287
	Magnesium	24400	25000	98	90 - 110	P	05/04/2023	14:10	LB125287
	Manganese	2500	2500	100	90 - 110	P	05/04/2023	14:10	LB125287
	Nickel	2460	2500	99	90 - 110	P	05/04/2023	14:10	LB125287
	Potassium	24200	25000	97	90 - 110	P	05/04/2023	14:10	LB125287
	Selenium	4950	5000	99	90 - 110	P	05/04/2023	14:10	LB125287
	Silver	1250	1250	100	90 - 110	P	05/04/2023	14:10	LB125287
	Sodium	23800	25000	95	90 - 110	P	05/04/2023	14:10	LB125287
	Thallium	4870	5000	98	90 - 110	P	05/04/2023	14:10	LB125287
	Vanadium	2410	2500	96	90 - 110	P	05/04/2023	14:10	LB125287
	Zinc	2490	2500	100	90 - 110	P	05/04/2023	14:10	LB125287

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV01	Aluminum	117	100	117	80 - 120	P	05/04/2023	14:14	LB125287
	Antimony	51.3	50.0	103	80 - 120	P	05/04/2023	14:14	LB125287
	Arsenic	20.4	20.0	102	80 - 120	P	05/04/2023	14:14	LB125287
	Barium	104	100	104	80 - 120	P	05/04/2023	14:14	LB125287
	Beryllium	6.34	6.0	106	80 - 120	P	05/04/2023	14:14	LB125287
	Cadmium	6.31	6.0	105	80 - 120	P	05/04/2023	14:14	LB125287
	Calcium	1920	2000	96	80 - 120	P	05/04/2023	14:14	LB125287
	Chromium	9.72	10.0	97	80 - 120	P	05/04/2023	14:14	LB125287
	Cobalt	29.1	30.0	97	80 - 120	P	05/04/2023	14:14	LB125287
	Copper	23.5	20.0	117	80 - 120	P	05/04/2023	14:14	LB125287
	Iron	100	100	100	80 - 120	P	05/04/2023	14:14	LB125287
	Lead	13.7	12.0	114	80 - 120	P	05/04/2023	14:14	LB125287
	Magnesium	2130	2000	106	80 - 120	P	05/04/2023	14:14	LB125287
	Manganese	22.1	20.0	110	80 - 120	P	05/04/2023	14:14	LB125287
	Nickel	38.9	40.0	97	80 - 120	P	05/04/2023	14:14	LB125287
	Potassium	1910	2000	95	80 - 120	P	05/04/2023	14:14	LB125287
	Selenium	18.9	20.0	95	80 - 120	P	05/04/2023	14:14	LB125287
	Silver	10.5	10.0	105	80 - 120	P	05/04/2023	14:14	LB125287
	Sodium	1810	2000	90	80 - 120	P	05/04/2023	14:14	LB125287
	Thallium	40.9	40.0	102	80 - 120	P	05/04/2023	14:14	LB125287
	Vanadium	39.2	40.0	98	80 - 120	P	05/04/2023	14:14	LB125287
	Zinc	47.9	40.0	120	80 - 120	P	05/04/2023	14:14	LB125287

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Aluminum	9700	10000	97	90 - 110	P	05/04/2023	15:05	LB125287
	Antimony	5120	5000	102	90 - 110	P	05/04/2023	15:05	LB125287
	Arsenic	4950	5000	99	90 - 110	P	05/04/2023	15:05	LB125287
	Barium	10100	10000	101	90 - 110	P	05/04/2023	15:05	LB125287
	Beryllium	242	250	97	90 - 110	P	05/04/2023	15:05	LB125287
	Cadmium	2420	2500	97	90 - 110	P	05/04/2023	15:05	LB125287
	Calcium	23900	25000	96	90 - 110	P	05/04/2023	15:05	LB125287
	Chromium	963	1000	96	90 - 110	P	05/04/2023	15:05	LB125287
	Cobalt	2480	2500	99	90 - 110	P	05/04/2023	15:05	LB125287
	Copper	1270	1250	102	90 - 110	P	05/04/2023	15:05	LB125287
	Iron	4990	5000	100	90 - 110	P	05/04/2023	15:05	LB125287
	Lead	4970	5000	100	90 - 110	P	05/04/2023	15:05	LB125287
	Magnesium	25000	25000	100	90 - 110	P	05/04/2023	15:05	LB125287
	Manganese	2570	2500	103	90 - 110	P	05/04/2023	15:05	LB125287
	Nickel	2520	2500	101	90 - 110	P	05/04/2023	15:05	LB125287
	Potassium	24900	25000	99	90 - 110	P	05/04/2023	15:05	LB125287
	Selenium	5070	5000	101	90 - 110	P	05/04/2023	15:05	LB125287
	Silver	1350	1250	108	90 - 110	P	05/04/2023	15:05	LB125287
	Sodium	24600	25000	98	90 - 110	P	05/04/2023	15:05	LB125287
	Thallium	4950	5000	99	90 - 110	P	05/04/2023	15:05	LB125287
	Vanadium	2430	2500	97	90 - 110	P	05/04/2023	15:05	LB125287
	Zinc	2540	2500	102	90 - 110	P	05/04/2023	15:05	LB125287
CCV03	Aluminum	9720	10000	97	90 - 110	P	05/04/2023	15:53	LB125287
	Antimony	5280	5000	106	90 - 110	P	05/04/2023	15:53	LB125287
	Arsenic	5060	5000	101	90 - 110	P	05/04/2023	15:53	LB125287
	Barium	10200	10000	102	90 - 110	P	05/04/2023	15:53	LB125287
	Beryllium	238	250	95	90 - 110	P	05/04/2023	15:53	LB125287
	Cadmium	2440	2500	98	90 - 110	P	05/04/2023	15:53	LB125287
	Calcium	23900	25000	95	90 - 110	P	05/04/2023	15:53	LB125287
	Chromium	968	1000	97	90 - 110	P	05/04/2023	15:53	LB125287
	Cobalt	2520	2500	101	90 - 110	P	05/04/2023	15:53	LB125287
	Copper	1300	1250	104	90 - 110	P	05/04/2023	15:53	LB125287
	Iron	5040	5000	101	90 - 110	P	05/04/2023	15:53	LB125287
	Lead	5030	5000	101	90 - 110	P	05/04/2023	15:53	LB125287

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV03	Magnesium	24900	25000	100	90 - 110	P	05/04/2023	15:53	LB125287
	Manganese	2570	2500	103	90 - 110	P	05/04/2023	15:53	LB125287
	Nickel	2560	2500	102	90 - 110	P	05/04/2023	15:53	LB125287
	Potassium	25700	25000	103	90 - 110	P	05/04/2023	15:53	LB125287
	Selenium	5220	5000	104	90 - 110	P	05/04/2023	15:53	LB125287
	Silver	1370	1250	109	90 - 110	P	05/04/2023	15:53	LB125287
	Sodium	23700	25000	95	90 - 110	P	05/04/2023	15:53	LB125287
	Thallium	5010	5000	100	90 - 110	P	05/04/2023	15:53	LB125287
	Vanadium	2450	2500	98	90 - 110	P	05/04/2023	15:53	LB125287
	Zinc	2580	2500	103	90 - 110	P	05/04/2023	15:53	LB125287
CCV04	Aluminum	9490	10000	95	90 - 110	P	05/04/2023	16:52	LB125287
	Antimony	5230	5000	104	90 - 110	P	05/04/2023	16:52	LB125287
	Arsenic	4980	5000	100	90 - 110	P	05/04/2023	16:52	LB125287
	Barium	9960	10000	100	90 - 110	P	05/04/2023	16:52	LB125287
	Beryllium	239	250	96	90 - 110	P	05/04/2023	16:52	LB125287
	Cadmium	2390	2500	96	90 - 110	P	05/04/2023	16:52	LB125287
	Calcium	23300	25000	93	90 - 110	P	05/04/2023	16:52	LB125287
	Chromium	967	1000	97	90 - 110	P	05/04/2023	16:52	LB125287
	Cobalt	2480	2500	99	90 - 110	P	05/04/2023	16:52	LB125287
	Copper	1290	1250	103	90 - 110	P	05/04/2023	16:52	LB125287
	Iron	5010	5000	100	90 - 110	P	05/04/2023	16:52	LB125287
	Lead	4950	5000	99	90 - 110	P	05/04/2023	16:52	LB125287
	Magnesium	24400	25000	98	90 - 110	P	05/04/2023	16:52	LB125287
	Manganese	2540	2500	102	90 - 110	P	05/04/2023	16:52	LB125287
	Nickel	2520	2500	101	90 - 110	P	05/04/2023	16:52	LB125287
	Potassium	25100	25000	101	90 - 110	P	05/04/2023	16:52	LB125287
	Selenium	5170	5000	103	90 - 110	P	05/04/2023	16:52	LB125287
	Silver	1340	1250	107	90 - 110	P	05/04/2023	16:52	LB125287
	Sodium	24700	25000	99	90 - 110	P	05/04/2023	16:52	LB125287
	Thallium	4910	5000	98	90 - 110	P	05/04/2023	16:52	LB125287
	Vanadium	2390	2500	95	90 - 110	P	05/04/2023	16:52	LB125287
	Zinc	2580	2500	103	90 - 110	P	05/04/2023	16:52	LB125287
CCV05	Aluminum	9300	10000	93	90 - 110	P	05/04/2023	17:43	LB125287
	Antimony	5360	5000	107	90 - 110	P	05/04/2023	17:43	LB125287

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Arsenic	5030	5000	101	90 - 110	P	05/04/2023	17:43	LB125287
	Barium	10000	10000	100	90 - 110	P	05/04/2023	17:43	LB125287
	Beryllium	230	250	92	90 - 110	P	05/04/2023	17:43	LB125287
	Cadmium	2370	2500	95	90 - 110	P	05/04/2023	17:43	LB125287
	Calcium	22800	25000	91	90 - 110	P	05/04/2023	17:43	LB125287
	Chromium	927	1000	93	90 - 110	P	05/04/2023	17:43	LB125287
	Cobalt	2490	2500	100	90 - 110	P	05/04/2023	17:43	LB125287
	Copper	1310	1250	104	90 - 110	P	05/04/2023	17:43	LB125287
	Iron	4950	5000	99	90 - 110	P	05/04/2023	17:43	LB125287
	Lead	4990	5000	100	90 - 110	P	05/04/2023	17:43	LB125287
	Magnesium	24100	25000	96	90 - 110	P	05/04/2023	17:43	LB125287
	Manganese	2560	2500	102	90 - 110	P	05/04/2023	17:43	LB125287
	Nickel	2550	2500	102	90 - 110	P	05/04/2023	17:43	LB125287
	Potassium	25000	25000	100	90 - 110	P	05/04/2023	17:43	LB125287
	Selenium	5300	5000	106	90 - 110	P	05/04/2023	17:43	LB125287
	Silver	1330	1250	106	90 - 110	P	05/04/2023	17:43	LB125287
	Sodium	23600	25000	94	90 - 110	P	05/04/2023	17:43	LB125287
	Thallium	4930	5000	98	90 - 110	P	05/04/2023	17:43	LB125287
	Vanadium	2360	2500	94	90 - 110	P	05/04/2023	17:43	LB125287
	Zinc	2500	2500	100	90 - 110	P	05/04/2023	17:43	LB125287
CCV06	Aluminum	9500	10000	95	90 - 110	P	05/04/2023	18:13	LB125287
	Antimony	5250	5000	105	90 - 110	P	05/04/2023	18:13	LB125287
	Arsenic	4960	5000	99	90 - 110	P	05/04/2023	18:13	LB125287
	Barium	10100	10000	101	90 - 110	P	05/04/2023	18:13	LB125287
	Beryllium	240	250	96	90 - 110	P	05/04/2023	18:13	LB125287
	Cadmium	2370	2500	95	90 - 110	P	05/04/2023	18:13	LB125287
	Calcium	23300	25000	93	90 - 110	P	05/04/2023	18:13	LB125287
	Chromium	939	1000	94	90 - 110	P	05/04/2023	18:13	LB125287
	Cobalt	2480	2500	99	90 - 110	P	05/04/2023	18:13	LB125287
	Copper	1290	1250	103	90 - 110	P	05/04/2023	18:13	LB125287
	Iron	5010	5000	100	90 - 110	P	05/04/2023	18:13	LB125287
	Lead	4950	5000	99	90 - 110	P	05/04/2023	18:13	LB125287
	Magnesium	24600	25000	98	90 - 110	P	05/04/2023	18:13	LB125287
	Manganese	2620	2500	105	90 - 110	P	05/04/2023	18:13	LB125287

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06	Nickel	2520	2500	101	90 - 110	P	05/04/2023	18:13	LB125287
	Potassium	25200	25000	101	90 - 110	P	05/04/2023	18:13	LB125287
	Selenium	5170	5000	103	90 - 110	P	05/04/2023	18:13	LB125287
	Silver	1360	1250	108	90 - 110	P	05/04/2023	18:13	LB125287
	Sodium	24100	25000	96	90 - 110	P	05/04/2023	18:13	LB125287
	Thallium	4870	5000	97	90 - 110	P	05/04/2023	18:13	LB125287
	Vanadium	2400	2500	96	90 - 110	P	05/04/2023	18:13	LB125287
	Zinc	2600	2500	104	90 - 110	P	05/04/2023	18:13	LB125287

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Metals

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CRDL STANDARD FOR AA & ICP

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.21	0.2	105	40 - 160	CV	04/28/2023	13:20	LB125204
CRA	Mercury	0.16	0.2	82	40 - 160	CV	05/02/2023	16:15	LB125251
CRI01	Aluminum	101	100	101	40 - 160	P	05/02/2023	17:20	LB125255
	Antimony	52.7	50.0	105	40 - 160	P	05/02/2023	17:20	LB125255
	Arsenic	22.5	20.0	112	40 - 160	P	05/02/2023	17:20	LB125255
	Barium	102	100	102	40 - 160	P	05/02/2023	17:20	LB125255
	Beryllium	6.58	6.0	110	40 - 160	P	05/02/2023	17:20	LB125255
	Cadmium	6.72	6.0	112	40 - 160	P	05/02/2023	17:20	LB125255
	Calcium	2030	2000	102	40 - 160	P	05/02/2023	17:20	LB125255
	Chromium	9.97	10.0	100	40 - 160	P	05/02/2023	17:20	LB125255
	Cobalt	30.5	30.0	102	40 - 160	P	05/02/2023	17:20	LB125255
	Copper	23.8	20.0	119	40 - 160	P	05/02/2023	17:20	LB125255
	Iron	99.5	100	100	40 - 160	P	05/02/2023	17:20	LB125255
	Lead	14.1	12.0	118	40 - 160	P	05/02/2023	17:20	LB125255
	Magnesium	2150	2000	107	40 - 160	P	05/02/2023	17:20	LB125255
	Manganese	22.4	20.0	112	40 - 160	P	05/02/2023	17:20	LB125255
	Nickel	40.5	40.0	101	40 - 160	P	05/02/2023	17:20	LB125255
	Potassium	1990	2000	100	40 - 160	P	05/02/2023	17:20	LB125255
	Selenium	21.7	20.0	109	40 - 160	P	05/02/2023	17:20	LB125255
	Silver	10.8	10.0	108	40 - 160	P	05/02/2023	17:20	LB125255
	Sodium	1900	2000	95	40 - 160	P	05/02/2023	17:20	LB125255
	Thallium	41.3	40.0	103	40 - 160	P	05/02/2023	17:20	LB125255
	Vanadium	37.8	40.0	95	40 - 160	P	05/02/2023	17:20	LB125255
	Zinc	45.8	40.0	114	40 - 160	P	05/02/2023	17:20	LB125255
CRI01	Aluminum	120	100	120	40 - 160	P	05/03/2023	14:15	LB125269
	Antimony	52.5	50.0	105	40 - 160	P	05/03/2023	14:15	LB125269
	Arsenic	22.2	20.0	111	40 - 160	P	05/03/2023	14:15	LB125269
	Barium	113	100	114	40 - 160	P	05/03/2023	14:15	LB125269
	Beryllium	6.52	6.0	109	40 - 160	P	05/03/2023	14:15	LB125269
	Cadmium	6.52	6.0	109	40 - 160	P	05/03/2023	14:15	LB125269
	Calcium	1980	2000	99	40 - 160	P	05/03/2023	14:15	LB125269
	Chromium	10.0	10.0	100	40 - 160	P	05/03/2023	14:15	LB125269
	Cobalt	30.7	30.0	102	40 - 160	P	05/03/2023	14:15	LB125269
	Copper	23.4	20.0	117	40 - 160	P	05/03/2023	14:15	LB125269
	Iron	103	100	103	40 - 160	P	05/03/2023	14:15	LB125269

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Metals

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CRDL STANDARD FOR AA & ICP

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Lead	12.8	12.0	107	40 - 160	P	05/03/2023	14:15	LB125269
	Magnesium	2200	2000	110	40 - 160	P	05/03/2023	14:15	LB125269
	Manganese	23.1	20.0	115	40 - 160	P	05/03/2023	14:15	LB125269
	Nickel	40.7	40.0	102	40 - 160	P	05/03/2023	14:15	LB125269
	Potassium	1950	2000	97	40 - 160	P	05/03/2023	14:15	LB125269
	Selenium	23.3	20.0	117	40 - 160	P	05/03/2023	14:15	LB125269
	Silver	11.5	10.0	116	40 - 160	P	05/03/2023	14:15	LB125269
	Sodium	1750	2000	88	40 - 160	P	05/03/2023	14:15	LB125269
	Thallium	42.6	40.0	106	40 - 160	P	05/03/2023	14:15	LB125269
	Vanadium	43.5	40.0	109	40 - 160	P	05/03/2023	14:15	LB125269
	Zinc	47.8	40.0	120	40 - 160	P	05/03/2023	14:15	LB125269
CRI01	Aluminum	98.1	100	98	40 - 160	P	05/04/2023	13:51	LB125287
	Antimony	49.6	50.0	99	40 - 160	P	05/04/2023	13:51	LB125287
	Arsenic	21.0	20.0	105	40 - 160	P	05/04/2023	13:51	LB125287
	Barium	103	100	103	40 - 160	P	05/04/2023	13:51	LB125287
	Beryllium	6.51	6.0	108	40 - 160	P	05/04/2023	13:51	LB125287
	Cadmium	6.24	6.0	104	40 - 160	P	05/04/2023	13:51	LB125287
	Calcium	1930	2000	96	40 - 160	P	05/04/2023	13:51	LB125287
	Chromium	9.64	10.0	96	40 - 160	P	05/04/2023	13:51	LB125287
	Cobalt	29.0	30.0	96	40 - 160	P	05/04/2023	13:51	LB125287
	Copper	24.1	20.0	120	40 - 160	P	05/04/2023	13:51	LB125287
	Iron	103	100	103	40 - 160	P	05/04/2023	13:51	LB125287
	Lead	14.0	12.0	116	40 - 160	P	05/04/2023	13:51	LB125287
	Magnesium	2140	2000	107	40 - 160	P	05/04/2023	13:51	LB125287
	Manganese	21.9	20.0	110	40 - 160	P	05/04/2023	13:51	LB125287
	Nickel	38.6	40.0	96	40 - 160	P	05/04/2023	13:51	LB125287
	Potassium	1910	2000	96	40 - 160	P	05/04/2023	13:51	LB125287
	Selenium	21.3	20.0	106	40 - 160	P	05/04/2023	13:51	LB125287
	Silver	10.4	10.0	104	40 - 160	P	05/04/2023	13:51	LB125287
	Sodium	1830	2000	91	40 - 160	P	05/04/2023	13:51	LB125287
	Thallium	39.9	40.0	100	40 - 160	P	05/04/2023	13:51	LB125287
	Vanadium	41.0	40.0	103	40 - 160	P	05/04/2023	13:51	LB125287
	Zinc	48.4	40.0	121	40 - 160	P	05/04/2023	13:51	LB125287

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB53	Mercury	0.20	+/-0.20	U	0.20	CV	04/28/2023	13:14	LB125204

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB79	Mercury	0.20	+/-0.20	U	0.20	CV	04/28/2023	13:18	LB125204
CCB80	Mercury	0.20	+/-0.20	U	0.20	CV	04/28/2023	13:45	LB125204
CCB81	Mercury	0.20	+/-0.20	U	0.20	CV	04/28/2023	14:16	LB125204
CCB82	Mercury	0.20	+/-0.20	U	0.20	CV	04/28/2023	14:33	LB125204

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB58	Mercury	0.20	+/-0.20	U	0.20	CV	05/02/2023	16:08	LB125251

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB98	Mercury	0.20	+/-0.20	U	0.20	CV	05/02/2023	16:13	LB125251
CCB99	Mercury	0.20	+/-0.20	U	0.20	CV	05/02/2023	16:40	LB125251
CCB01	Mercury	0.20	+/-0.20	U	0.20	CV	05/02/2023	17:07	LB125251

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	05/02/2023	17:16	LB125255
	Antimony	50.0	+/-50.0	U	50.0	P	05/02/2023	17:16	LB125255
	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2023	17:16	LB125255
	Barium	100	+/-100	U	100	P	05/02/2023	17:16	LB125255
	Beryllium	6.00	+/-6.00	U	6.00	P	05/02/2023	17:16	LB125255
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2023	17:16	LB125255
	Calcium	2000	+/-2000	U	2000	P	05/02/2023	17:16	LB125255
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2023	17:16	LB125255
	Cobalt	30.0	+/-30.0	U	30.0	P	05/02/2023	17:16	LB125255
	Copper	20.0	+/-20.0	U	20.0	P	05/02/2023	17:16	LB125255
	Iron	100	+/-100	U	100	P	05/02/2023	17:16	LB125255
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2023	17:16	LB125255
	Magnesium	2000	+/-2000	U	2000	P	05/02/2023	17:16	LB125255
	Manganese	20.0	+/-20.0	U	20.0	P	05/02/2023	17:16	LB125255
	Nickel	40.0	+/-40.0	U	40.0	P	05/02/2023	17:16	LB125255
	Potassium	2000	+/-2000	U	2000	P	05/02/2023	17:16	LB125255
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2023	17:16	LB125255
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2023	17:16	LB125255
	Sodium	2000	+/-2000	U	2000	P	05/02/2023	17:16	LB125255
	Thallium	40.0	+/-40.0	U	40.0	P	05/02/2023	17:16	LB125255
	Vanadium	40.0	+/-40.0	U	40.0	P	05/02/2023	17:16	LB125255
	Zinc	40.0	+/-40.0	U	40.0	P	05/02/2023	17:16	LB125255

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	05/02/2023	17:39	LB125255
	Antimony	50.0	+/-50.0	U	50.0	P	05/02/2023	17:39	LB125255
	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2023	17:39	LB125255
	Barium	100	+/-100	U	100	P	05/02/2023	17:39	LB125255
	Beryllium	6.00	+/-6.00	U	6.00	P	05/02/2023	17:39	LB125255
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2023	17:39	LB125255
	Calcium	2000	+/-2000	U	2000	P	05/02/2023	17:39	LB125255
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2023	17:39	LB125255
	Cobalt	30.0	+/-30.0	U	30.0	P	05/02/2023	17:39	LB125255
	Copper	20.0	+/-20.0	U	20.0	P	05/02/2023	17:39	LB125255
	Iron	100	+/-100	U	100	P	05/02/2023	17:39	LB125255
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2023	17:39	LB125255
	Magnesium	2000	+/-2000	U	2000	P	05/02/2023	17:39	LB125255
	Manganese	20.0	+/-20.0	U	20.0	P	05/02/2023	17:39	LB125255
	Nickel	40.0	+/-40.0	U	40.0	P	05/02/2023	17:39	LB125255
	Potassium	2000	+/-2000	U	2000	P	05/02/2023	17:39	LB125255
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2023	17:39	LB125255
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2023	17:39	LB125255
	Sodium	2000	+/-2000	U	2000	P	05/02/2023	17:39	LB125255
	Thallium	40.0	+/-40.0	U	40.0	P	05/02/2023	17:39	LB125255
	Vanadium	40.0	+/-40.0	U	40.0	P	05/02/2023	17:39	LB125255
	Zinc	40.0	+/-40.0	U	40.0	P	05/02/2023	17:39	LB125255
CCB02	Aluminum	100	+/-100	U	100	P	05/02/2023	18:42	LB125255
	Antimony	50.0	+/-50.0	U	50.0	P	05/02/2023	18:42	LB125255
	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2023	18:42	LB125255
	Barium	100	+/-100	U	100	P	05/02/2023	18:42	LB125255
	Beryllium	6.00	+/-6.00	U	6.00	P	05/02/2023	18:42	LB125255
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2023	18:42	LB125255
	Calcium	2000	+/-2000	U	2000	P	05/02/2023	18:42	LB125255
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2023	18:42	LB125255
	Cobalt	30.0	+/-30.0	U	30.0	P	05/02/2023	18:42	LB125255
	Copper	20.0	+/-20.0	U	20.0	P	05/02/2023	18:42	LB125255
	Iron	100	+/-100	U	100	P	05/02/2023	18:42	LB125255
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2023	18:42	LB125255
	Magnesium	2000	+/-2000	U	2000	P	05/02/2023	18:42	LB125255
	Manganese	20.0	+/-20.0	U	20.0	P	05/02/2023	18:42	LB125255
	Nickel	40.0	+/-40.0	U	40.0	P	05/02/2023	18:42	LB125255
	Potassium	2000	+/-2000	U	2000	P	05/02/2023	18:42	LB125255
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2023	18:42	LB125255
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2023	18:42	LB125255

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Sodium	2000	+/-2000	U	2000	P	05/02/2023	18:42	LB125255
	Thallium	40.0	+/-40.0	U	40.0	P	05/02/2023	18:42	LB125255
	Vanadium	40.0	+/-40.0	U	40.0	P	05/02/2023	18:42	LB125255
	Zinc	40.0	+/-40.0	U	40.0	P	05/02/2023	18:42	LB125255
CCB03	Aluminum	100	+/-100	U	100	P	05/02/2023	19:29	LB125255
	Antimony	50.0	+/-50.0	U	50.0	P	05/02/2023	19:29	LB125255
	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2023	19:29	LB125255
	Barium	100	+/-100	U	100	P	05/02/2023	19:29	LB125255
	Beryllium	6.00	+/-6.00	U	6.00	P	05/02/2023	19:29	LB125255
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2023	19:29	LB125255
	Calcium	2000	+/-2000	U	2000	P	05/02/2023	19:29	LB125255
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2023	19:29	LB125255
	Cobalt	30.0	+/-30.0	U	30.0	P	05/02/2023	19:29	LB125255
	Copper	20.0	+/-20.0	U	20.0	P	05/02/2023	19:29	LB125255
	Iron	100	+/-100	U	100	P	05/02/2023	19:29	LB125255
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2023	19:29	LB125255
	Magnesium	2000	+/-2000	U	2000	P	05/02/2023	19:29	LB125255
	Manganese	20.0	+/-20.0	U	20.0	P	05/02/2023	19:29	LB125255
	Nickel	40.0	+/-40.0	U	40.0	P	05/02/2023	19:29	LB125255
	Potassium	2000	+/-2000	U	2000	P	05/02/2023	19:29	LB125255
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2023	19:29	LB125255
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2023	19:29	LB125255
	Sodium	2000	+/-2000	U	2000	P	05/02/2023	19:29	LB125255
	Thallium	40.0	+/-40.0	U	40.0	P	05/02/2023	19:29	LB125255
	Vanadium	40.0	+/-40.0	U	40.0	P	05/02/2023	19:29	LB125255
	Zinc	40.0	+/-40.0	U	40.0	P	05/02/2023	19:29	LB125255
CCB04	Aluminum	100	+/-100	U	100	P	05/02/2023	20:15	LB125255
	Antimony	50.0	+/-50.0	U	50.0	P	05/02/2023	20:15	LB125255
	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2023	20:15	LB125255
	Barium	100	+/-100	U	100	P	05/02/2023	20:15	LB125255
	Beryllium	6.00	+/-6.00	U	6.00	P	05/02/2023	20:15	LB125255
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2023	20:15	LB125255
	Calcium	2000	+/-2000	U	2000	P	05/02/2023	20:15	LB125255
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2023	20:15	LB125255
	Cobalt	30.0	+/-30.0	U	30.0	P	05/02/2023	20:15	LB125255
	Copper	20.0	+/-20.0	U	20.0	P	05/02/2023	20:15	LB125255
	Iron	100	+/-100	U	100	P	05/02/2023	20:15	LB125255
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2023	20:15	LB125255
	Magnesium	2000	+/-2000	U	2000	P	05/02/2023	20:15	LB125255
	Manganese	20.0	+/-20.0	U	20.0	P	05/02/2023	20:15	LB125255

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Nickel	40.0	+/-40.0	U	40.0	P	05/02/2023	20:15	LB125255
	Potassium	2000	+/-2000	U	2000	P	05/02/2023	20:15	LB125255
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2023	20:15	LB125255
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2023	20:15	LB125255
	Sodium	2000	+/-2000	U	2000	P	05/02/2023	20:15	LB125255
	Thallium	40.0	+/-40.0	U	40.0	P	05/02/2023	20:15	LB125255
	Vanadium	40.0	+/-40.0	U	40.0	P	05/02/2023	20:15	LB125255
	Zinc	40.0	+/-40.0	U	40.0	P	05/02/2023	20:15	LB125255
CCB05	Aluminum	100	+/-100	U	100	P	05/02/2023	21:01	LB125255
	Antimony	50.0	+/-50.0	U	50.0	P	05/02/2023	21:01	LB125255
	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2023	21:01	LB125255
	Barium	100	+/-100	U	100	P	05/02/2023	21:01	LB125255
	Beryllium	6.00	+/-6.00	U	6.00	P	05/02/2023	21:01	LB125255
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2023	21:01	LB125255
	Calcium	2000	+/-2000	U	2000	P	05/02/2023	21:01	LB125255
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2023	21:01	LB125255
	Cobalt	30.0	+/-30.0	U	30.0	P	05/02/2023	21:01	LB125255
	Copper	20.0	+/-20.0	U	20.0	P	05/02/2023	21:01	LB125255
	Iron	100	+/-100	U	100	P	05/02/2023	21:01	LB125255
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2023	21:01	LB125255
	Magnesium	2000	+/-2000	U	2000	P	05/02/2023	21:01	LB125255
	Manganese	20.0	+/-20.0	U	20.0	P	05/02/2023	21:01	LB125255
	Nickel	40.0	+/-40.0	U	40.0	P	05/02/2023	21:01	LB125255
	Potassium	2000	+/-2000	U	2000	P	05/02/2023	21:01	LB125255
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2023	21:01	LB125255
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2023	21:01	LB125255
	Sodium	2000	+/-2000	U	2000	P	05/02/2023	21:01	LB125255
	Thallium	40.0	+/-40.0	U	40.0	P	05/02/2023	21:01	LB125255
	Vanadium	40.0	+/-40.0	U	40.0	P	05/02/2023	21:01	LB125255
	Zinc	40.0	+/-40.0	U	40.0	P	05/02/2023	21:01	LB125255
CCB06	Aluminum	100	+/-100	U	100	P	05/02/2023	21:49	LB125255
	Antimony	50.0	+/-50.0	U	50.0	P	05/02/2023	21:49	LB125255
	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2023	21:49	LB125255
	Barium	100	+/-100	U	100	P	05/02/2023	21:49	LB125255
	Beryllium	6.00	+/-6.00	U	6.00	P	05/02/2023	21:49	LB125255
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2023	21:49	LB125255
	Calcium	2000	+/-2000	U	2000	P	05/02/2023	21:49	LB125255
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2023	21:49	LB125255
	Cobalt	30.0	+/-30.0	U	30.0	P	05/02/2023	21:49	LB125255
	Copper	20.0	+/-20.0	U	20.0	P	05/02/2023	21:49	LB125255

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Iron	100	+/-100	U	100	P	05/02/2023	21:49	LB125255
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2023	21:49	LB125255
	Magnesium	2000	+/-2000	U	2000	P	05/02/2023	21:49	LB125255
	Manganese	20.0	+/-20.0	U	20.0	P	05/02/2023	21:49	LB125255
	Nickel	40.0	+/-40.0	U	40.0	P	05/02/2023	21:49	LB125255
	Potassium	2000	+/-2000	U	2000	P	05/02/2023	21:49	LB125255
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2023	21:49	LB125255
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2023	21:49	LB125255
	Sodium	2000	+/-2000	U	2000	P	05/02/2023	21:49	LB125255
	Thallium	40.0	+/-40.0	U	40.0	P	05/02/2023	21:49	LB125255
	Vanadium	40.0	+/-40.0	U	40.0	P	05/02/2023	21:49	LB125255
	Zinc	40.0	+/-40.0	U	40.0	P	05/02/2023	21:49	LB125255
CCB07	Aluminum	100	+/-100	U	100	P	05/02/2023	22:22	LB125255
	Antimony	50.0	+/-50.0	U	50.0	P	05/02/2023	22:22	LB125255
	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2023	22:22	LB125255
	Barium	100	+/-100	U	100	P	05/02/2023	22:22	LB125255
	Beryllium	6.00	+/-6.00	U	6.00	P	05/02/2023	22:22	LB125255
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2023	22:22	LB125255
	Calcium	2000	+/-2000	U	2000	P	05/02/2023	22:22	LB125255
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2023	22:22	LB125255
	Cobalt	30.0	+/-30.0	U	30.0	P	05/02/2023	22:22	LB125255
	Copper	20.0	+/-20.0	U	20.0	P	05/02/2023	22:22	LB125255
	Iron	100	+/-100	U	100	P	05/02/2023	22:22	LB125255
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2023	22:22	LB125255
	Magnesium	2000	+/-2000	U	2000	P	05/02/2023	22:22	LB125255
	Manganese	20.0	+/-20.0	U	20.0	P	05/02/2023	22:22	LB125255
	Nickel	40.0	+/-40.0	U	40.0	P	05/02/2023	22:22	LB125255
	Potassium	2000	+/-2000	U	2000	P	05/02/2023	22:22	LB125255
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2023	22:22	LB125255
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2023	22:22	LB125255
	Sodium	2000	+/-2000	U	2000	P	05/02/2023	22:22	LB125255
	Thallium	40.0	+/-40.0	U	40.0	P	05/02/2023	22:22	LB125255
	Vanadium	40.0	+/-40.0	U	40.0	P	05/02/2023	22:22	LB125255
	Zinc	40.0	+/-40.0	U	40.0	P	05/02/2023	22:22	LB125255

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	05/03/2023	14:11	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	14:11	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	14:11	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	14:11	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	14:11	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	14:11	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	14:11	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	14:11	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	14:11	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	14:11	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	14:11	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	14:11	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	14:11	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	14:11	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	14:11	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	14:11	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	14:11	LB125269
	Silver	1.54	+/-10.0	J	10.0	P	05/03/2023	14:11	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	14:11	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	14:11	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	14:11	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	14:11	LB125269

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	05/03/2023	14:39	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	14:39	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	14:39	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	14:39	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	14:39	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	14:39	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	14:39	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	14:39	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	14:39	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	14:39	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	14:39	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	14:39	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	14:39	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	14:39	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	14:39	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	14:39	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	14:39	LB125269
	Silver	1.35	+/-10.0	J	10.0	P	05/03/2023	14:39	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	14:39	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	14:39	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	14:39	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	14:39	LB125269
CCB02	Aluminum	100	+/-100	U	100	P	05/03/2023	15:30	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	15:30	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	15:30	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	15:30	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	15:30	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	15:30	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	15:30	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	15:30	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	15:30	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	15:30	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	15:30	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	15:30	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	15:30	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	15:30	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	15:30	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	15:30	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	15:30	LB125269
	Silver	10.0	+/-10.0	U	10.0	P	05/03/2023	15:30	LB125269

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Sodium	2000	+/-2000	U	2000	P	05/03/2023	15:30	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	15:30	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	15:30	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	15:30	LB125269
CCB03	Aluminum	100	+/-100	U	100	P	05/03/2023	16:43	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	16:43	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	16:43	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	16:43	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	16:43	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	16:43	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	16:43	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	16:43	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	16:43	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	16:43	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	16:43	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	16:43	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	16:43	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	16:43	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	16:43	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	16:43	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	16:43	LB125269
	Silver	10.0	+/-10.0	U	10.0	P	05/03/2023	16:43	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	16:43	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	16:43	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	16:43	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	16:43	LB125269
CCB04	Aluminum	100	+/-100	U	100	P	05/03/2023	17:34	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	17:34	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	17:34	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	17:34	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	17:34	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	17:34	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	17:34	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	17:34	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	17:34	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	17:34	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	17:34	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	17:34	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	17:34	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	17:34	LB125269

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	17:34	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	17:34	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	17:34	LB125269
	Silver	1.69	+/-10.0	J	10.0	P	05/03/2023	17:34	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	17:34	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	17:34	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	17:34	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	17:34	LB125269
CCB05	Aluminum	100	+/-100	U	100	P	05/03/2023	18:20	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	18:20	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	18:20	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	18:20	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	18:20	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	18:20	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	18:20	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	18:20	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	18:20	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	18:20	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	18:20	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	18:20	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	18:20	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	18:20	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	18:20	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	18:20	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	18:20	LB125269
	Silver	10.0	+/-10.0	U	10.0	P	05/03/2023	18:20	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	18:20	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	18:20	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	18:20	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	18:20	LB125269
CCB06	Aluminum	100	+/-100	U	100	P	05/03/2023	19:07	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	19:07	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	19:07	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	19:07	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	19:07	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	19:07	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	19:07	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	19:07	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	19:07	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	19:07	LB125269

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Iron	100	+/-100	U	100	P	05/03/2023	19:07	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	19:07	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	19:07	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	19:07	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	19:07	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	19:07	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	19:07	LB125269
	Silver	2.29	+/-10.0	J	10.0	P	05/03/2023	19:07	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	19:07	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	19:07	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	19:07	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	19:07	LB125269

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	05/04/2023	13:47	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	13:47	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	13:47	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	13:47	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	13:47	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	13:47	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	13:47	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	13:47	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	13:47	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	13:47	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	13:47	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	13:47	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	13:47	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	13:47	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	13:47	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	13:47	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	13:47	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	13:47	LB125287
	Sodium	2000	+/-2000	U	2000	P	05/04/2023	13:47	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	13:47	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	13:47	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	13:47	LB125287

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	05/04/2023	14:18	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	14:18	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	14:18	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	14:18	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	14:18	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	14:18	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	14:18	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	14:18	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	14:18	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	14:18	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	14:18	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	14:18	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	14:18	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	14:18	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	14:18	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	14:18	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	14:18	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	14:18	LB125287
	Sodium	2000	+/-2000	U	2000	P	05/04/2023	14:18	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	14:18	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	14:18	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	14:18	LB125287
CCB02	Aluminum	100	+/-100	U	100	P	05/04/2023	15:09	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	15:09	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	15:09	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	15:09	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	15:09	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	15:09	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	15:09	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	15:09	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	15:09	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	15:09	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	15:09	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	15:09	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	15:09	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	15:09	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	15:09	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	15:09	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	15:09	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	15:09	LB125287

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Sodium	2000	+/-2000	U	2000	P	05/04/2023	15:09	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	15:09	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	15:09	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	15:09	LB125287
CCB03	Aluminum	100	+/-100	U	100	P	05/04/2023	15:57	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	15:57	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	15:57	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	15:57	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	15:57	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	15:57	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	15:57	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	15:57	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	15:57	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	15:57	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	15:57	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	15:57	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	15:57	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	15:57	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	15:57	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	15:57	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	15:57	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	15:57	LB125287
	Sodium	1020	+/-2000	J	2000	P	05/04/2023	15:57	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	15:57	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	15:57	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	15:57	LB125287
CCB04	Aluminum	100	+/-100	U	100	P	05/04/2023	16:55	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	16:55	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	16:55	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	16:55	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	16:55	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	16:55	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	16:55	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	16:55	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	16:55	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	16:55	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	16:55	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	16:55	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	16:55	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	16:55	LB125287

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	16:55	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	16:55	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	16:55	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	16:55	LB125287
	Sodium	2000	+/-2000	U	2000	P	05/04/2023	16:55	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	16:55	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	16:55	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	16:55	LB125287
CCB05	Aluminum	100	+/-100	U	100	P	05/04/2023	17:47	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	17:47	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	17:47	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	17:47	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	17:47	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	17:47	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	17:47	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	17:47	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	17:47	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	17:47	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	17:47	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	17:47	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	17:47	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	17:47	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	17:47	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	17:47	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	17:47	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	17:47	LB125287
	Sodium	2000	+/-2000	U	2000	P	05/04/2023	17:47	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	17:47	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	17:47	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	17:47	LB125287
CCB06	Aluminum	100	+/-100	U	100	P	05/04/2023	18:17	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	18:17	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	18:17	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	18:17	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	18:17	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	18:17	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	18:17	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	18:17	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	18:17	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	18:17	LB125287

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Iron	100	+/-100	U	100	P	05/04/2023	18:17	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	18:17	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	18:17	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	18:17	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	18:17	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	18:17	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	18:17	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	18:17	LB125287
	Sodium	2000	+/-2000	U	2000	P	05/04/2023	18:17	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	18:17	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	18:17	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	18:17	LB125287

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Metals
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PREPARATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB152487BL		**WATER**		**Batch Number:**	**PB152487**		**Prep Date:**	**04/28/2023**	
	Mercury	0.20	<0.20	U	0.20	CV	04/28/2023	13:27	LB125204

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB152538BL		**WATER**		**Batch Number:**	**PB152538**		**Prep Date:**	**05/02/2023**	
	Mercury	0.20	<0.20	U	0.20	CV	05/02/2023	16:22	LB125251

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Metals
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PREPARATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB152420BL		**WATER**		**Batch Number:**	**PB152420**		**Prep Date:**	**05/02/2023**	
	Aluminum	50.0	<50.0	U	50.0	P	05/02/2023	17:59	LB125255
	Antimony	25.0	<25.0	U	25.0	P	05/02/2023	17:59	LB125255
	Arsenic	10.0	<10.0	U	10.0	P	05/02/2023	17:59	LB125255
	Barium	50.0	<50.0	U	50.0	P	05/02/2023	17:59	LB125255
	Beryllium	3.00	<3.00	U	3.00	P	05/02/2023	17:59	LB125255
	Cadmium	3.00	<3.00	U	3.00	P	05/02/2023	17:59	LB125255
	Calcium	1000	<1000	U	1000	P	05/02/2023	17:59	LB125255
	Chromium	5.00	<5.00	U	5.00	P	05/02/2023	17:59	LB125255
	Cobalt	15.0	<15.0	U	15.0	P	05/02/2023	17:59	LB125255
	Copper	10.0	<10.0	U	10.0	P	05/02/2023	17:59	LB125255
	Iron	50.0	<50.0	U	50.0	P	05/02/2023	17:59	LB125255
	Lead	6.00	<6.00	U	6.00	P	05/02/2023	17:59	LB125255
	Magnesium	1000	<1000	U	1000	P	05/02/2023	17:59	LB125255
	Manganese	10.0	<10.0	U	10.0	P	05/02/2023	17:59	LB125255
	Nickel	20.0	<20.0	U	20.0	P	05/02/2023	17:59	LB125255
	Potassium	1000	<1000	U	1000	P	05/02/2023	17:59	LB125255
	Selenium	10.0	<10.0	U	10.0	P	05/02/2023	17:59	LB125255
	Silver	5.00	<5.00	U	5.00	P	05/02/2023	17:59	LB125255
	Sodium	1000	<1000	U	1000	P	05/02/2023	17:59	LB125255
	Thallium	20.0	<20.0	U	20.0	P	05/02/2023	17:59	LB125255
	Vanadium	20.0	<20.0	U	20.0	P	05/02/2023	17:59	LB125255
	Zinc	20.0	<20.0	U	20.0	P	05/02/2023	17:59	LB125255

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Metals
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INTERFERENCE CHECK SAMPLE

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	256000	255000	100	216000	294000	05/02/2023	17:24	LB125255
	Antimony	2.91			-50	50	05/02/2023	17:24	LB125255
	Arsenic	0.13			-20	20	05/02/2023	17:24	LB125255
	Barium	4.66	6.0	78	-94	106	05/02/2023	17:24	LB125255
	Beryllium	1.19			-6	6	05/02/2023	17:24	LB125255
	Cadmium	1.69	1.0	169	-5	7	05/02/2023	17:24	LB125255
	Calcium	241000	245000	98	208000	282000	05/02/2023	17:24	LB125255
	Chromium	54.1	52.0	104	42	62	05/02/2023	17:24	LB125255
	Cobalt	2.17			-30	30	05/02/2023	17:24	LB125255
	Copper	14.1	2.0	705	-18	22	05/02/2023	17:24	LB125255
	Iron	99600	101000	99	85600	116500	05/02/2023	17:24	LB125255
	Lead	0.23			-12	12	05/02/2023	17:24	LB125255
	Magnesium	247000	255000	97	216000	294000	05/02/2023	17:24	LB125255
	Manganese	11.5	7.0	164	-13	27	05/02/2023	17:24	LB125255
	Nickel	3.42	2.0	171	-38	42	05/02/2023	17:24	LB125255
	Potassium	-45.3			0	0	05/02/2023	17:24	LB125255
	Selenium	-6.41			-20	20	05/02/2023	17:24	LB125255
	Silver	6.14			-10	10	05/02/2023	17:24	LB125255
	Sodium	-27.0			0	0	05/02/2023	17:24	LB125255
	Thallium	-6.37			-40	40	05/02/2023	17:24	LB125255
	Vanadium	1.74			-40	40	05/02/2023	17:24	LB125255
	Zinc	-4.47			-40	40	05/02/2023	17:24	LB125255
ICSAB01	Aluminum	250000	247000	101	209000	285000	05/02/2023	17:27	LB125255
	Antimony	593	618	96	525	711	05/02/2023	17:27	LB125255
	Arsenic	104	104	100	88.4	120	05/02/2023	17:27	LB125255
	Barium	499	537	93	437	637	05/02/2023	17:27	LB125255
	Beryllium	499	495	101	420	570	05/02/2023	17:27	LB125255
	Cadmium	996	972	102	826	1120	05/02/2023	17:27	LB125255
	Calcium	236000	235000	100	199000	271000	05/02/2023	17:27	LB125255
	Chromium	527	542	97	460	624	05/02/2023	17:27	LB125255
	Cobalt	488	476	102	404	548	05/02/2023	17:27	LB125255
	Copper	495	511	97	434	588	05/02/2023	17:27	LB125255
	Iron	94900	99300	96	84400	114500	05/02/2023	17:27	LB125255
	Lead	49.1	49.0	100	37	61	05/02/2023	17:27	LB125255
	Magnesium	240000	248000	97	210000	286000	05/02/2023	17:27	LB125255
	Manganese	490	507	97	430	584	05/02/2023	17:27	LB125255
	Nickel	964	954	101	810	1100	05/02/2023	17:27	LB125255
	Potassium	-28.7			0	0	05/02/2023	17:27	LB125255
	Selenium	42.0	46.0	91	26	66	05/02/2023	17:27	LB125255
	Silver	214	201	106	170	232	05/02/2023	17:27	LB125255
	Sodium	-27.2			0	0	05/02/2023	17:27	LB125255
	Thallium	91.1	108	84	68	148	05/02/2023	17:27	LB125255
	Vanadium	467	491	95	417	565	05/02/2023	17:27	LB125255
	Zinc	1020	952	107	809	1095	05/02/2023	17:27	LB125255
ICSA01	Aluminum	260000	255000	102	216000	294000	05/03/2023	14:19	LB125269

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Metals
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INTERFERENCE CHECK SAMPLE

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Antimony	2.06			-50	50	05/03/2023	14:19	LB125269
	Arsenic	-0.24			-20	20	05/03/2023	14:19	LB125269
	Barium	12.2	6.0	203	-94	106	05/03/2023	14:19	LB125269
	Beryllium	1.20			-6	6	05/03/2023	14:19	LB125269
	Cadmium	1.52	1.0	152	-5	7	05/03/2023	14:19	LB125269
	Calcium	245000	245000	100	208000	282000	05/03/2023	14:19	LB125269
	Chromium	52.7	52.0	101	42	62	05/03/2023	14:19	LB125269
	Cobalt	2.18			-30	30	05/03/2023	14:19	LB125269
	Copper	12.5	2.0	625	-18	22	05/03/2023	14:19	LB125269
	Iron	97400	101000	96	85600	116500	05/03/2023	14:19	LB125269
	Lead	-2.76			-12	12	05/03/2023	14:19	LB125269
	Magnesium	256000	255000	100	216000	294000	05/03/2023	14:19	LB125269
	Manganese	12.3	7.0	176	-13	27	05/03/2023	14:19	LB125269
	Nickel	3.56	2.0	178	-38	42	05/03/2023	14:19	LB125269
	Potassium	-84.5			0	0	05/03/2023	14:19	LB125269
	Selenium	5.85			-20	20	05/03/2023	14:19	LB125269
	Silver	0.32			-10	10	05/03/2023	14:19	LB125269
	Sodium	-96.6			0	0	05/03/2023	14:19	LB125269
	Thallium	-10.8			-40	40	05/03/2023	14:19	LB125269
	Vanadium	0.27			-40	40	05/03/2023	14:19	LB125269
	Zinc	-3.16			-40	40	05/03/2023	14:19	LB125269
ICSAB01	Aluminum	251000	247000	102	209000	285000	05/03/2023	14:23	LB125269
	Antimony	610	618	99	525	711	05/03/2023	14:23	LB125269
	Arsenic	105	104	101	88.4	120	05/03/2023	14:23	LB125269
	Barium	535	537	100	437	637	05/03/2023	14:23	LB125269
	Beryllium	493	495	100	420	570	05/03/2023	14:23	LB125269
	Cadmium	999	972	103	826	1120	05/03/2023	14:23	LB125269
	Calcium	237000	235000	101	199000	271000	05/03/2023	14:23	LB125269
	Chromium	508	542	94	460	624	05/03/2023	14:23	LB125269
	Cobalt	500	476	105	404	548	05/03/2023	14:23	LB125269
	Copper	502	511	98	434	588	05/03/2023	14:23	LB125269
	Iron	93500	99300	94	84400	114500	05/03/2023	14:23	LB125269
	Lead	48.1	49.0	98	37	61	05/03/2023	14:23	LB125269
	Magnesium	248000	248000	100	210000	286000	05/03/2023	14:23	LB125269
	Manganese	519	507	102	430	584	05/03/2023	14:23	LB125269
	Nickel	995	954	104	810	1100	05/03/2023	14:23	LB125269
	Potassium	-42.0			0	0	05/03/2023	14:23	LB125269
	Selenium	51.6	46.0	112	26	66	05/03/2023	14:23	LB125269
	Silver	193	201	96	170	232	05/03/2023	14:23	LB125269
	Sodium	-103			0	0	05/03/2023	14:23	LB125269
	Thallium	95.8	108	89	68	148	05/03/2023	14:23	LB125269
	Vanadium	482	491	98	417	565	05/03/2023	14:23	LB125269
	Zinc	1020	952	107	809	1095	05/03/2023	14:23	LB125269
ICSA01	Aluminum	256000	255000	100	216000	294000	05/04/2023	13:55	LB125287
	Antimony	-0.32			-50	50	05/04/2023	13:55	LB125287

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Metals
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INTERFERENCE CHECK SAMPLE

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	-0.91			-20	20	05/04/2023	13:55	LB125287
	Barium	7.84	6.0	131	-94	106	05/04/2023	13:55	LB125287
	Beryllium	1.32			-6	6	05/04/2023	13:55	LB125287
	Cadmium	2.32	1.0	232	-5	7	05/04/2023	13:55	LB125287
	Calcium	245000	245000	100	208000	282000	05/04/2023	13:55	LB125287
	Chromium	55.1	52.0	106	42	62	05/04/2023	13:55	LB125287
	Cobalt	1.81			-30	30	05/04/2023	13:55	LB125287
	Copper	2.82	2.0	141	-18	22	05/04/2023	13:55	LB125287
	Iron	96700	101000	96	85600	116500	05/04/2023	13:55	LB125287
	Lead	-1.13			-12	12	05/04/2023	13:55	LB125287
	Magnesium	256000	255000	100	216000	294000	05/04/2023	13:55	LB125287
	Manganese	13.4	7.0	191	-13	27	05/04/2023	13:55	LB125287
	Nickel	3.31	2.0	166	-38	42	05/04/2023	13:55	LB125287
	Potassium	-57.3			0	0	05/04/2023	13:55	LB125287
	Selenium	2.64			-20	20	05/04/2023	13:55	LB125287
	Silver	-0.32			-10	10	05/04/2023	13:55	LB125287
	Sodium	-50.2			0	0	05/04/2023	13:55	LB125287
	Thallium	-6.74			-40	40	05/04/2023	13:55	LB125287
	Vanadium	3.92			-40	40	05/04/2023	13:55	LB125287
	Zinc	-3.08			-40	40	05/04/2023	13:55	LB125287
ICSAB01	Aluminum	260000	247000	105	209000	285000	05/04/2023	13:58	LB125287
	Antimony	621	618	100	525	711	05/04/2023	13:58	LB125287
	Arsenic	103	104	99	88.4	120	05/04/2023	13:58	LB125287
	Barium	532	537	99	437	637	05/04/2023	13:58	LB125287
	Beryllium	520	495	105	420	570	05/04/2023	13:58	LB125287
	Cadmium	1030	972	106	826	1120	05/04/2023	13:58	LB125287
	Calcium	249000	235000	106	199000	271000	05/04/2023	13:58	LB125287
	Chromium	554	542	102	460	624	05/04/2023	13:58	LB125287
	Cobalt	506	476	106	404	548	05/04/2023	13:58	LB125287
	Copper	498	511	98	434	588	05/04/2023	13:58	LB125287
	Iron	99700	99300	100	84400	114500	05/04/2023	13:58	LB125287
	Lead	49.9	49.0	102	37	61	05/04/2023	13:58	LB125287
	Magnesium	261000	248000	105	210000	286000	05/04/2023	13:58	LB125287
	Manganese	529	507	104	430	584	05/04/2023	13:58	LB125287
	Nickel	1010	954	106	810	1100	05/04/2023	13:58	LB125287
	Potassium	-92.0			0	0	05/04/2023	13:58	LB125287
	Selenium	53.1	46.0	115	26	66	05/04/2023	13:58	LB125287
	Silver	221	201	110	170	232	05/04/2023	13:58	LB125287
	Sodium	-54.2			0	0	05/04/2023	13:58	LB125287
	Thallium	96.5	108	89	68	148	05/04/2023	13:58	LB125287
	Vanadium	501	491	102	417	565	05/04/2023	13:58	LB125287
	Zinc	1070	952	112	809	1095	05/04/2023	13:58	LB125287

METAL QC DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: GEI Consultants, Inc., P.C. **level:** low **sdg no.:** O2495

contract: GEIC06 **lab code:** CHEM **case no.:** O2495 **sas no.:** O2495

matrix: Water **sample id:** O2495-09 **client id:** GMW-5MS

Percent Solids for Sample: NA **Spiked ID:** O2495-09MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1810		873		1000	94		P
Antimony	ug/L	75 - 125	377		25.0	U	400	94		P
Arsenic	ug/L	75 - 125	390		10.0	U	400	98		P
Barium	ug/L	75 - 125	127		36.6	J	100	90		P
Beryllium	ug/L	75 - 125	92.2		3.00	U	100	92		P
Cadmium	ug/L	75 - 125	95.7		3.51		100	92		P
Calcium	ug/L	75 - 125	64300		67900		500	-708		P
Chromium	ug/L	75 - 125	188		1.83	J	200	93		P
Cobalt	ug/L	75 - 125	93.7		15.0	U	100	94		P
Copper	ug/L	75 - 125	153		13.3		150	93		P
Iron	ug/L	75 - 125	3090		1930		1500	77		P
Lead	ug/L	75 - 125	486		19.2		500	93		P
Magnesium	ug/L	75 - 125	6380		5990		1000	40		P
Manganese	ug/L	75 - 125	270		189		100	81		P
Nickel	ug/L	75 - 125	236		4.64	J	250	92		P
Potassium	ug/L	75 - 125	12500		8000		5000	89		P
Selenium	ug/L	75 - 125	958		10.0	U	1000	96		P
Silver	ug/L	75 - 125	35.5		5.00	U	37.5	95		P
Sodium	ug/L	75 - 125	6830		5930		1500	60	N	P
Thallium	ug/L	75 - 125	917		20.0	U	1000	92		P
Vanadium	ug/L	75 - 125	146		12.1	J	150	89		P
Zinc	ug/L	75 - 125	119		24.4		100	95		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: GEI Consultants, Inc., P.C. **level:** low **sdg no.:** O2495

contract: GEIC06 **lab code:** CHEM **case no.:** O2495 **sas no.:** O2495

matrix: Water **sample id:** O2495-09 **client id:** GMW-5MSD

Percent Solids for Sample: NA **Spiked ID:** O2495-09MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1940		873		1000	106		P
Antimony	ug/L	75 - 125	386		25.0	U	400	96		P
Arsenic	ug/L	75 - 125	399		10.0	U	400	100		P
Barium	ug/L	75 - 125	136		36.6	J	100	100		P
Beryllium	ug/L	75 - 125	98.2		3.00	U	100	98		P
Cadmium	ug/L	75 - 125	98.1		3.51		100	95		P
Calcium	ug/L	75 - 125	68600		67900		500	152		P
Chromium	ug/L	75 - 125	186		1.83	J	200	92		P
Cobalt	ug/L	75 - 125	95.8		15.0	U	100	96		P
Copper	ug/L	75 - 125	157		13.3		150	96		P
Iron	ug/L	75 - 125	3020		1930		1500	72	N	P
Lead	ug/L	75 - 125	498		19.2		500	96		P
Magnesium	ug/L	75 - 125	6880		5990		1000	89		P
Manganese	ug/L	75 - 125	289		189		100	100		P
Nickel	ug/L	75 - 125	241		4.64	J	250	95		P
Potassium	ug/L	75 - 125	12200		8000		5000	84		P
Selenium	ug/L	75 - 125	981		10.0	U	1000	98		P
Silver	ug/L	75 - 125	34.8		5.00	U	37.5	93		P
Sodium	ug/L	75 - 125	6740		5930		1500	54	N	P
Thallium	ug/L	75 - 125	940		20.0	U	1000	94		P
Vanadium	ug/L	75 - 125	158		12.1	J	150	97		P
Zinc	ug/L	75 - 125	117		24.4		100	93		P

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metals
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MATRIX SPIKE SUMMARY

client: GEI Consultants, Inc., P.C. **level:** low **sdg no.:** O2495

contract: GEIC06 **lab code:** CHEM **case no.:** O2495 **sas no.:** O2495

matrix: Water **sample id:** O2521-07 **client id:** GMW-7MS

Percent Solids for Sample: NA **Spiked ID:** O2521-09 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	4.62		0.083	J	4.0	113		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: GEI Consultants, Inc., P.C. **level:** low **sdg no.:** O2495

contract: GEIC06 **lab code:** CHEM **case no.:** O2495 **sas no.:** O2495

matrix: Water **sample id:** O2521-07 **client id:** GMW-7MSD

Percent Solids for Sample: NA **Spiked ID:** O2521-10 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	4.36		0.083	J	4.0	107		CV

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metals
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MATRIX SPIKE SUMMARY

client: GEI Consultants, Inc., P.C. **level:** low **sdg no.:** O2495

contract: GEIC06 **lab code:** CHEM **case no.:** O2495 **sas no.:** O2495

matrix: Water **sample id:** O2521-08 **client id:** GMW-7MS

Percent Solids for Sample: NA **Spiked ID:** O2521-11 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.61		0.20	U	4.0	90		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: GEI Consultants, Inc., P.C. **level:** low **sdg no.:** O2495

contract: GEIC06 **lab code:** CHEM **case no.:** O2495 **sas no.:** O2495

matrix: Water **sample id:** O2521-08 **client id:** GMW-7MSD

Percent Solids for Sample: NA **Spiked ID:** O2521-12 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.50		0.20	U	4.0	88		CV

CHEMTECH

Metals
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POST DIGEST SPIKE SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Matrix: Water **Level:** LOW **Client ID:** GMW-5A

Sample ID: O2495-09 **Spiked ID:** O2495-09A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	75 - 125	3380		1930		1500	97		P
Sodium	ug/L	75 - 125	7030		5930		1500	73		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **Level:** LOW **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Matrix: Water **Sample ID:** O2495-09 **Client ID:** GMW-5DUP

Percent Solids for Sample: NA **Duplicate ID** O2495-09DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	873		856		2		P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	10.0	U	4.37	J	200.0		P
Barium	ug/L	20	36.6	J	36.3	J	1		P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	3.51		3.42		3		P
Calcium	ug/L	20	67900		66900		1		P
Chromium	ug/L	20	1.83	J	1.84	J	1		P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	13.3		13.0		2		P
Iron	ug/L	20	1930		1850		4		P
Lead	ug/L	20	19.2		18.6		3		P
Magnesium	ug/L	20	5990		5890		2		P
Manganese	ug/L	20	189		186		2		P
Nickel	ug/L	20	4.64	J	4.53	J	2		P
Potassium	ug/L	20	8000		7690		4		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	5930		5640		5		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	12.1	J	10.9	J	11		P
Zinc	ug/L	20	24.4		23.3		5		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **Level:** LOW **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Matrix: Water **Sample ID:** O2495-09MS **Client ID:** GMW-5MSD

Percent Solids for Sample: NA **Duplicate ID** O2495-09MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	1810		1940		7		P
Antimony	ug/L	20	377		386		2		P
Arsenic	ug/L	20	390		399		2		P
Barium	ug/L	20	127		136		7		P
Beryllium	ug/L	20	92.2		98.2		6		P
Cadmium	ug/L	20	95.7		98.1		2		P
Calcium	ug/L	20	64300		68600		6		P
Chromium	ug/L	20	188		186		1		P
Cobalt	ug/L	20	93.7		95.8		2		P
Copper	ug/L	20	153		157		3		P
Iron	ug/L	20	3090		3020		2		P
Lead	ug/L	20	486		498		2		P
Magnesium	ug/L	20	6380		6880		8		P
Manganese	ug/L	20	270		289		7		P
Nickel	ug/L	20	236		241		2		P
Potassium	ug/L	20	12500		12200		2		P
Selenium	ug/L	20	958		981		2		P
Silver	ug/L	20	35.5		34.8		2		P
Sodium	ug/L	20	6830		6740		1		P
Thallium	ug/L	20	917		940		2		P
Vanadium	ug/L	20	146		158		8		P
Zinc	ug/L	20	119		117		2		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **Level:** LOW **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Matrix: Water **Sample ID:** O2521-07 **Client ID:** GMW-7DUP

Percent Solids for Sample: NA **Duplicate ID** O2521-07DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.083	J	0.090	J	8		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **Level:** LOW **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Matrix: Water **Sample ID:** O2521-08 **Client ID:** GMW-7DUP

Percent Solids for Sample: NA **Duplicate ID** O2521-08DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.20	U	0.20	U			CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **Level:** LOW **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Matrix: Water **Sample ID:** O2521-09 **Client ID:** GMW-7MSD

Percent Solids for Sample: NA **Duplicate ID** O2521-10 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	4.62		4.36		6		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **Level:** LOW **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Matrix: Water **Sample ID:** O2521-11 **Client ID:** GMW-7MSD

Percent Solids for Sample: NA **Duplicate ID** O2521-12 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	3.61		3.50		3		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB152420BS							
Aluminum	ug/L	1000	981		98	80 - 120	P
Antimony	ug/L	400	390		98	80 - 120	P
Arsenic	ug/L	400	400		100	80 - 120	P
Barium	ug/L	100	94.2		94	80 - 120	P
Beryllium	ug/L	100	96.2		96	80 - 120	P
Cadmium	ug/L	100	98.3		98	80 - 120	P
Calcium	ug/L	500	496	J	99	80 - 120	P
Chromium	ug/L	200	188		94	80 - 120	P
Cobalt	ug/L	100	97.5		98	80 - 120	P
Copper	ug/L	150	158		105	80 - 120	P
Iron	ug/L	1500	1440		96	80 - 120	P
Lead	ug/L	500	497		99	80 - 120	P
Magnesium	ug/L	1000	910	J	91	80 - 120	P
Manganese	ug/L	100	94.9		95	80 - 120	P
Nickel	ug/L	250	246		98	80 - 120	P
Potassium	ug/L	5000	4680		94	80 - 120	P
Selenium	ug/L	1000	1030		103	80 - 120	P
Silver	ug/L	37.5	36.4		97	80 - 120	P
Sodium	ug/L	1500	1330		89	80 - 120	P
Thallium	ug/L	1000	1010		101	80 - 120	P
Vanadium	ug/L	150	136		91	80 - 120	P
Zinc	ug/L	100	100		100	80 - 120	P

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Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB152487BS							
Mercury	ug/L	4.0	3.69		92	80 - 120	CV

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB152538BS							
Mercury	ug/L	4.0	3.53		88	80 - 120	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

GMW-5L

Lab Name: Chemtech Consulting Group **Contract:** GEIC06

Lab Code: CHEM **Lb No.:** lb125255 **Lab Sample ID :** O2495-09L **SDG No.:** O2495

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	873		872		0		P
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	36.6	J	32.6	J	11		P
Beryllium	3.00	U	15.0	U			P
Cadmium	3.51		3.44	J	2		P
Calcium	67900		69800		3		P
Chromium	1.83	J	25.0	U	100.0		P
Cobalt	15.0	U	75.0	U			P
Copper	13.3		50.0	U	100.0		P
Iron	1930		1950		1		P
Lead	19.2		20.7	J	8		P
Magnesium	5990		6250		4		P
Manganese	189		196		3		P
Nickel	4.64	J	5.01	J	8		P
Potassium	8000		7910		1		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	5930		5810		2		P
Thallium	20.0	U	100	U			P
Vanadium	12.1	J	100	U	100.0		P
Zinc	24.4		23.8	J	2		P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

GMW-7L

Lab Name: Chemtech Consulting Group **Contract:** GEIC06

Lab Code: CHEM **Lb No.:** lb125204 **Lab Sample ID :** O2521-07L **SDG No.:** O2495

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.083	J	1.00	U	100.0		CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

GMW-7L

Lab Name: Chemtech Consulting Group **Contract:** GEIC06

Lab Code: CHEM **Lb No.:** lb125251 **Lab Sample ID :** O2521-08L **SDG No.:** O2495

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.20	U	1.00	U			CV

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Method:**

Case No.: O2495 **SAS No.:** O2495

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB152420**						
O2495-01	PZ-01	SAM	WATER	05/02/2023	50.0	25.0	
O2495-02	PZ-01	SAM	WATER	05/02/2023	50.0	25.0	
O2495-03	PZ-02	SAM	WATER	05/02/2023	50.0	25.0	
O2495-04	PZ-02	SAM	WATER	05/02/2023	50.0	25.0	
O2495-05	GMW-11	SAM	WATER	05/02/2023	50.0	25.0	
O2495-06	GMW-11	SAM	WATER	05/02/2023	50.0	25.0	
O2495-07	GMW-X	SAM	WATER	05/02/2023	50.0	25.0	
O2495-08	GMW-X	SAM	WATER	05/02/2023	50.0	25.0	
O2495-09	GMW-5	SAM	WATER	05/02/2023	50.0	25.0	
O2495-09DUP	GMW-5DUP	DUP	WATER	05/02/2023	50.0	25.0	
O2495-09MS	GMW-5MS	MS	WATER	05/02/2023	50.0	25.0	
O2495-09MSD	GMW-5MSD	MSD	WATER	05/02/2023	50.0	25.0	
O2495-10	GMW-5	SAM	WATER	05/02/2023	50.0	25.0	
PB152420BL	PB152420BL	MB	WATER	05/02/2023	50.0	25.0	
PB152420BS	PB152420BS	LCS	WATER	05/02/2023	50.0	25.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Method:**

Case No.: O2495 **SAS No.:** O2495

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB152487**						
O2495-01	PZ-01	SAM	WATER	04/28/2023	30.0	30.0	
O2495-03	PZ-02	SAM	WATER	04/28/2023	30.0	30.0	
O2495-05	GMW-11	SAM	WATER	04/28/2023	30.0	30.0	
O2495-07	GMW-X	SAM	WATER	04/28/2023	30.0	30.0	
O2495-09	GMW-5	SAM	WATER	04/28/2023	30.0	30.0	
O2521-07DUP	GMW-7DUP	DUP	WATER	04/28/2023	30.0	30.0	
O2521-09	GMW-7MS	MS	WATER	04/28/2023	30.0	30.0	
O2521-10	GMW-7MSD	MSD	WATER	04/28/2023	30.0	30.0	
PB152487BL	PB152487BL	MB	WATER	04/28/2023	30.0	30.0	
PB152487BS	PB152487BS	LCS	WATER	04/28/2023	30.0	30.0	

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SAMPLE PREPARATION SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Method:**

Case No.: O2495 **SAS No.:** O2495

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB152538**						
O2495-02	PZ-01	SAM	WATER	05/02/2023	30.0	30.0	
O2495-04	PZ-02	SAM	WATER	05/02/2023	30.0	30.0	
O2495-06	GMW-11	SAM	WATER	05/02/2023	30.0	30.0	
O2495-08	GMW-X	SAM	WATER	05/02/2023	30.0	30.0	
O2495-10	GMW-5	SAM	WATER	05/02/2023	30.0	30.0	
O2521-08DUP	GMW-7DUP	DUP	WATER	05/02/2023	30.0	30.0	
O2521-11	GMW-7MS	MS	WATER	05/02/2023	30.0	30.0	
O2521-12	GMW-7MSD	MSD	WATER	05/02/2023	30.0	30.0	
PB152538BL	PB152538BL	MB	WATER	05/02/2023	30.0	30.0	
PB152538BS	PB152538BS	LCS	WATER	05/02/2023	30.0	30.0	

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ANALYSIS RUN LOG

Client: GEI Consultants, Inc., P.C. **Contract:** GEIC06

Lab code: CHEM **Case no.:** O2495 **Sas no.:** O2495 **Sdg no.:** O2495

Instrument id number: **Method:** **Run number:** LB125204

Start date: 04/28/2023 **End date:** 04/28/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1249	HG
S0.2	S0.2	1	1252	HG
S2.5	S2.5	1	1254	HG
S5	S5	1	1256	HG
S7.5	S7.5	1	1258	HG
S10	S10	1	1301	HG
ICV53	ICV53	1	1311	HG
ICB53	ICB53	1	1314	HG
CCV79	CCV79	1	1316	HG
CCB79	CCB79	1	1318	HG
CRA	CRA	1	1320	HG
PB152487BL	PB152487BL	1	1327	HG
PB152487BS	PB152487BS	1	1329	HG
O2495-01	PZ-01	1	1332	HG
O2495-03	PZ-02	1	1334	HG
O2495-05	GMW-11	1	1336	HG
O2495-07	GMW-X	1	1339	HG
O2495-09	GMW-5	1	1341	HG
CCV80	CCV80	1	1343	HG
CCB80	CCB80	1	1345	HG
O2521-07DUP	GMW-7DUP	1	1401	HG
O2521-09	GMW-7MS	1	1407	HG
O2521-10	GMW-7MSD	1	1409	HG
CCV81	CCV81	1	1414	HG
CCB81	CCB81	1	1416	HG
O2521-07L	GMW-7L	5	1420	HG
CCV82	CCV82	1	1430	HG
CCB82	CCB82	1	1433	HG

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ANALYSIS RUN LOG

Client: GEI Consultants, Inc., P.C. **Contract:** GEIC06

Lab code: CHEM **Case no.:** O2495 **Sas no.:** O2495 **Sdg no.:** O2495

Instrument id number: **Method:** **Run number:** LB125251

Start date: 05/02/2023 **End date:** 05/02/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1551	HG
S0.2	S0.2	1	1554	HG
S2.5	S2.5	1	1556	HG
S5	S5	1	1558	HG
S7.5	S7.5	1	1601	HG
S10	S10	1	1603	HG
ICV58	ICV58	1	1606	HG
ICB58	ICB58	1	1608	HG
CCV98	CCV98	1	1610	HG
CCB98	CCB98	1	1613	HG
CRA	CRA	1	1615	HG
PB152538BL	PB152538BL	1	1622	HG
PB152538BS	PB152538BS	1	1624	HG
O2495-02	PZ-01	1	1626	HG
O2495-04	PZ-02	1	1628	HG
O2495-06	GMW-11	1	1631	HG
O2495-08	GMW-X	1	1633	HG
O2495-10	GMW-5	1	1635	HG
CCV99	CCV99	1	1638	HG
CCB99	CCB99	1	1640	HG
O2521-08DUP	GMW-7DUP	1	1651	HG
O2521-11	GMW-7MS	1	1653	HG
O2521-12	GMW-7MSD	1	1656	HG
O2521-08L	GMW-7L	5	1700	HG
CCV01	CCV01	1	1705	HG
CCB01	CCB01	1	1707	HG

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ANALYSIS RUN LOG

Client: GEI Consultants, Inc., P.C. **Contract:** GEIC06

Lab code: CHEM **Case no.:** O2495 **Sas no.:** O2495 **Sdg no.:** O2495

Instrument id number: **Method:** **Run number:** LB125255

Start date: 05/02/2023 **End date:** 05/02/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1627	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1631	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1635	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1639	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1643	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1647	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1712	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1716	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1720	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1724	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1727	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1731	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV01	LLCCV01	1	1735	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1739	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB152420BL	PB152420BL	1	1759	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB152420BS	PB152420BS	1	1803	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-09	GMW-5	1	1807	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-09DUP	GMW-5DUP	1	1811	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1838	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1842	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-09L	GMW-5L	5	1847	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-09MS	GMW-5MS	1	1851	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-09MSD	GMW-5MSD	1	1855	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-09A	GMW-5A	1	1859	Fe,Na
CCV03	CCV03	1	1925	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1929	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	2011	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	2015	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	2057	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	2101	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	2145	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	2149	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	2219	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	2222	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: GEI Consultants, Inc., P.C. **Contract:** GEIC06

Lab code: CHEM **Case no.:** O2495 **Sas no.:** O2495 **Sdg no.:** O2495

Instrument id number: **Method:** **Run number:** LB125269

Start date: 05/03/2023 **End date:** 05/03/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1240	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1244	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1248	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1252	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1255	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1259	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1404	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1411	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1415	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1419	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1423	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1431	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV01	LLCCV01	1	1435	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1439	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1521	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1530	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-03	PZ-02	1	1534	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-04	PZ-02	1	1538	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-05	GMW-11	1	1542	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-06	GMW-11	1	1546	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-07	GMW-X	1	1550	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-08	GMW-X	1	1554	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-10	GMW-5	1	1558	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1639	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1643	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1730	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1734	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1816	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1820	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1903	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1907	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: GEI Consultants, Inc., P.C. **Contract:** GEIC06

Lab code: CHEM **Case no.:** O2495 **Sas no.:** O2495 **Sdg no.:** O2495

Instrument id number: **Method:** **Run number:** LB125287

Start date: 05/04/2023 **End date:** 05/04/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1318	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1322	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1326	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1330	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1333	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1337	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1341	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1347	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1351	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1355	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1358	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1410	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV01	LLCCV01	1	1414	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1418	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-01	PZ-01	1	1453	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-02	PZ-01	1	1457	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1505	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1509	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1553	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1557	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1652	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1655	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1743	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1747	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1813	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1817	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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LAB CHRONICLE

OrderID:	O2495	**OrderDate:**	4/25/2023 3:22:44 PM
Client:	GEI Consultants, Inc., P.C.	**Project:**	Ferry Point
Contact:	Stacey Ng	**Location:**	N11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O2495-01	**PZ-01**	**WATER**			**04/25/23 08:49**			**04/25/23**
			Alkalinity	SM2320 B			05/04/23 13:22	
			Ammonia	SM4500-NH3		05/01/23	05/02/23 12:25	
			Anions Group1	300.0			04/26/23 15:20	
			BOD5	SM5210 B			04/26/23 13:50	
			COD	SM5220 D			05/03/23 14:02	
			Cyanide	9012B		04/28/23	04/28/23 13:53	
			pH	9040C			04/26/23 11:15	
			Phenolics	420.1		04/27/23	04/27/23 11:46	
			TDS	SM2540 C			04/27/23 10:30	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		05/03/23	05/04/23 11:11	
			TOC	9060A			04/27/23 14:21	
O2495-01DL	**PZ-01DL**	**WATER**			**04/25/23 08:49**			**04/25/23**
			Ammonia	SM4500-NH3		05/01/23	05/02/23 13:54	
			Anions Group1	300.0			04/27/23 11:48	

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O2495-03	**PZ-02**	**WATER**			**04/25/23 09:53**			**04/25/23**
			Alkalinity	SM2320 B			05/04/23 13:29	
			Ammonia	SM4500-NH3		05/01/23	05/02/23 13:04	
			Anions Group1	300.0			04/26/23 15:52	
			BOD5	SM5210 B			04/26/23 13:50	
			COD	SM5220 D			05/03/23 14:02	
			Cyanide	9012B		04/28/23	04/28/23 13:53	
			pH	9040C			04/26/23 11:20	
			Phenolics	420.1		04/27/23	04/27/23 11:46	
			TDS	SM2540 C			04/27/23 10:30	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		05/03/23	05/04/23 11:11	
			TOC	9060A			04/27/23 19:20	
O2495-03DL	**PZ-02DL**	**WATER**			**04/25/23 09:53**			**04/25/23**
			Ammonia	SM4500-NH3		05/01/23	05/02/23 14:02	
			Anions Group1	300.0			04/27/23 12:20	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		05/03/23	05/04/23 12:20	
O2495-05	**GMW-11**	**WATER**			**04/25/23 11:52**			**04/25/23**

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			Alkalinity	SM2320 B			05/04/23 13:33	
			Ammonia	SM4500-NH3		05/01/23	05/02/23 13:04	
			Anions Group1	300.0			04/26/23 16:25	
			BOD5	SM5210 B			04/26/23 13:50	
			COD	SM5220 D			05/03/23 14:03	
			Cyanide	9012B		04/28/23	04/28/23 13:53	
			pH	9040C			04/26/23 11:25	
			Phenolics	420.1		04/27/23	04/27/23 11:46	
			TDS	SM2540 C			04/27/23 10:30	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		05/03/23	05/04/23 11:11	
			TOC	9060A			04/27/23 19:49	
O2495-05DL	**GMW-11DL**	**WATER**			**04/25/23 11:52**			**04/25/23**
			Anions Group1	300.0			04/27/23 12:53	
O2495-07	**GMW-X**	**WATER**			**04/25/23 11:52**			**04/25/23**
			Alkalinity	SM2320 B			05/04/23 13:36	
			Ammonia	SM4500-NH3		05/01/23	05/02/23 13:04	
			Anions Group1	300.0			04/26/23 16:57	
			BOD5	SM5210 B			04/26/23 13:50	
			COD	SM5220 D			05/03/23 14:03	

LAB CHRONICLE

			Cyanide	9012B		04/28/23	04/28/23 13:53
			pH	9040C			04/26/23 11:30
			Phenolics	420.1		04/27/23	04/27/23 11:46
			TDS	SM2540 C			04/27/23 10:30
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		05/03/23	05/04/23 11:11
			TOC	9060A			04/27/23 20:18
O2495-07DL	**GMW-XDL**	**WATER**			**04/25/23 11:52**		**04/25/23**
			Anions Group1	300.0			04/27/23 13:26
O2495-09	**GMW-5**	**WATER**			**04/25/23 13:47**		**04/25/23**
			Alkalinity	SM2320 B			05/04/23 13:40
			Ammonia	SM4500-NH3		05/01/23	05/02/23 13:04
			Anions Group1	300.0			04/26/23 17:30
			BOD5	SM5210 B			04/26/23 13:50
			COD	SM5220 D			05/03/23 14:04
			Cyanide	9012B		04/28/23	04/28/23 13:53
			pH	9040C			04/26/23 11:32
			Phenolics	420.1		04/27/23	04/27/23 11:46
			TDS	SM2540 C			04/27/23 10:30

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LAB CHRONICLE

TKN	SM4500-N Org C-11 plus NH3 B plus G-11	05/03/23	05/04/23 11:11
TOC	9060A		04/27/23 20:47

SAMPLE DATA

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23 08:49
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01	SDG No.:	O2495
Lab Sample ID:	O2495-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	363		1	1.00	2.00	mg/L		05/04/23 13:22	SM 2320 B-11
Ammonia as N	2.60	OR	1	0.045	0.10	mg/L	05/01/23 13:30	05/02/23 12:25	SM 4500-NH3 B plus G-11
Bromide	2.00	U	1	0.27	2.00	mg/L		04/26/23 15:20	300.0
Chloride	39.8	OR	1	0.11	0.60	mg/L		04/26/23 15:20	300.0
Nitrite	0.60	U	1	0.089	0.60	mg/L		04/26/23 15:20	300.0
Nitrate	0.20	J	1	0.084	0.50	mg/L		04/26/23 15:20	300.0
Sulfate	34.9		1	0.55	3.00	mg/L		04/26/23 15:20	300.0
Nitrate+Nitrite	0.20	J	1	0.17	1.10	mg/L		04/26/23 15:20	300.0
BOD5	26.6		1	0.17	2.00	mg/L		04/26/23 13:50	SM 5210 B-16
COD	140		1	2.52	10.0	mg/L		05/03/23 14:02	SM 5220 D-11
Cyanide	0.027		1	0.0010	0.0050	mg/L	04/28/23 10:45	04/28/23 13:53	9012B
pH	6.66	H	1	0	0	pH		04/26/23 11:15	9040C
Phenolics	0.050	U	1	0.012	0.050	mg/L	04/27/23 09:45	04/27/23 11:46	420.1
TDS	508		1	1.00	10.0	mg/L		04/27/23 10:30	SM 2540 C-15
TKN	5.30		1	0.13	0.50	mg/L	05/03/23 10:30	05/04/23 11:11	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	9.90		1	0.37	1.00	mg/L		04/27/23 14:21	9060A

Comments: pH result reported at temperature 20.3 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23 08:49
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01DL	SDG No.:	O2495
Lab Sample ID:	O2495-01DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	2.60	D	2	0.090	0.20	mg/L	05/01/23 13:30	05/02/23 13:54	SM 4500-NH3 B plus G-11
Chloride	33.0	D	10	1.10	6.00	mg/L		04/27/23 11:48	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23 09:53
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02	SDG No.:	O2495
Lab Sample ID:	O2495-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	539		1	1.00	2.00	mg/L		05/04/23 13:29	SM 2320 B-11
Ammonia as N	24.8	OR	1	0.045	0.10	mg/L	05/01/23 13:30	05/02/23 13:04	SM 4500-NH3 B plus G-11
Bromide	1.20	J	1	0.27	2.00	mg/L		04/26/23 15:52	300.0
Chloride	207	OR	1	0.11	0.60	mg/L		04/26/23 15:52	300.0
Nitrite	0.60	U	1	0.089	0.60	mg/L		04/26/23 15:52	300.0
Nitrate	0.50	U	1	0.084	0.50	mg/L		04/26/23 15:52	300.0
Sulfate	9.40		1	0.55	3.00	mg/L		04/26/23 15:52	300.0
Nitrate+Nitrite	1.10	U	1	0.17	1.10	mg/L		04/26/23 15:52	300.0
BOD5	14.3		1	0.17	2.00	mg/L		04/26/23 13:50	SM 5210 B-16
COD	82.0		1	2.52	10.0	mg/L		05/03/23 14:02	SM 5220 D-11
Cyanide	0.14		1	0.0010	0.0050	mg/L	04/28/23 10:45	04/28/23 13:53	9012B
pH	6.74	H	1	0	0	pH		04/26/23 11:20	9040C
Phenolics	0.050	U	1	0.012	0.050	mg/L	04/27/23 09:45	04/27/23 11:46	420.1
TDS	736		1	1.00	10.0	mg/L		04/27/23 10:30	SM 2540 C-15
TKN	33.1	OR	1	0.13	0.50	mg/L	05/03/23 10:30	05/04/23 11:11	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	17.9		1	0.37	1.00	mg/L		04/27/23 19:20	9060A

Comments: pH result reported at temperature 20.1 °C

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
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H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23 09:53
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02DL	SDG No.:	O2495
Lab Sample ID:	O2495-03DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	33.8	D	50	2.30	5.00	mg/L	05/01/23 13:30	05/02/23 14:02	SM 4500-NH3 B plus G-11
Chloride	138	D	50	5.50	30.0	mg/L		04/27/23 12:20	300.0
TKN	52.6	D	10	1.30	5.00	mg/L	05/03/23 10:30	05/04/23 12:20	SM4500-N Org C-11 plus NH3 B plus G-11

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23 11:52
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11	SDG No.:	O2495
Lab Sample ID:	O2495-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	38.2		1	1.00	2.00	mg/L		05/04/23 13:33	SM 2320 B-11
Ammonia as N	0.088	J	1	0.045	0.10	mg/L	05/01/23 13:30	05/02/23 13:04	SM 4500-NH3 B plus G-11
Bromide	2.00	U	1	0.27	2.00	mg/L		04/26/23 16:25	300.0
Chloride	43.6	OR	1	0.11	0.60	mg/L		04/26/23 16:25	300.0
Nitrite	0.60	U	1	0.089	0.60	mg/L		04/26/23 16:25	300.0
Nitrate	0.25	J	1	0.084	0.50	mg/L		04/26/23 16:25	300.0
Sulfate	435	OR	1	0.55	3.00	mg/L		04/26/23 16:25	300.0
Nitrate+Nitrite	0.25	J	1	0.17	1.10	mg/L		04/26/23 16:25	300.0
BOD5	6.36		1	0.17	2.00	mg/L		04/26/23 13:50	SM 5210 B-16
COD	55.0		1	2.52	10.0	mg/L		05/03/23 14:03	SM 5220 D-11
Cyanide	0.042		1	0.0010	0.0050	mg/L	04/28/23 10:45	04/28/23 13:53	9012B
pH	9.43	H	1	0	0	pH		04/26/23 11:25	9040C
Phenolics	0.019	J	1	0.012	0.050	mg/L	04/27/23 09:45	04/27/23 11:46	420.1
TDS	528		1	1.00	10.0	mg/L		04/27/23 10:30	SM 2540 C-15
TKN	3.50		1	0.13	0.50	mg/L	05/03/23 10:30	05/04/23 11:11	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	11.0		1	0.37	1.00	mg/L		04/27/23 19:49	9060A

Comments: pH result reported at temperature 20.4 °C

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
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J = Estimated Value
B = Analyte Found in Associated Method Blank
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E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23 11:52
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11DL	SDG No.:	O2495
Lab Sample ID:	O2495-05DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	33.9	D	20	2.20	12.0	mg/L		04/27/23 12:53	300.0
Sulfate	289	D	20	11.0	60.0	mg/L		04/27/23 12:53	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23 11:52
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-X	SDG No.:	O2495
Lab Sample ID:	O2495-07	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	36.2		1	1.00	2.00	mg/L		05/04/23 13:36	SM 2320 B-11
Ammonia as N	0.21		1	0.045	0.10	mg/L	05/01/23 13:30	05/02/23 13:04	SM 4500-NH3 B plus G-11
Bromide	0.75	J	1	0.27	2.00	mg/L		04/26/23 16:57	300.0
Chloride	43.6	OR	1	0.11	0.60	mg/L		04/26/23 16:57	300.0
Nitrite	0.60	U	1	0.089	0.60	mg/L		04/26/23 16:57	300.0
Nitrate	0.20	J	1	0.084	0.50	mg/L		04/26/23 16:57	300.0
Sulfate	437	OR	1	0.55	3.00	mg/L		04/26/23 16:57	300.0
Nitrate+Nitrite	0.20	J	1	0.17	1.10	mg/L		04/26/23 16:57	300.0
BOD5	3.54		1	0.17	2.00	mg/L		04/26/23 13:50	SM 5210 B-16
COD	64.0		1	2.52	10.0	mg/L		05/03/23 14:03	SM 5220 D-11
Cyanide	0.0047	J	1	0.0010	0.0050	mg/L	04/28/23 10:45	04/28/23 13:53	9012B
pH	9.49	H	1	0	0	pH		04/26/23 11:30	9040C
Phenolics	0.021	J	1	0.012	0.050	mg/L	04/27/23 09:45	04/27/23 11:46	420.1
TDS	538		1	1.00	10.0	mg/L		04/27/23 10:30	SM 2540 C-15
TKN	4.10		1	0.13	0.50	mg/L	05/03/23 10:30	05/04/23 11:11	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	11.4		1	0.37	1.00	mg/L		04/27/23 20:18	9060A

Comments: pH result reported at temperature 20.6 °C

U = Not Detected
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23 11:52
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-XDL	SDG No.:	O2495
Lab Sample ID:	O2495-07DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	33.9	D	20	2.20	12.0	mg/L		04/27/23 13:26	300.0
Sulfate	292	D	20	11.0	60.0	mg/L		04/27/23 13:26	300.0

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

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B = Analyte Found in Associated Method Blank
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23 13:47
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-5	SDG No.:	O2495
Lab Sample ID:	O2495-09	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	193		1	1.00	2.00	mg/L		05/04/23 13:40	SM 2320 B-11
Ammonia as N	0.21		1	0.045	0.10	mg/L	05/01/23 13:30	05/02/23 13:04	SM 4500-NH3 B plus G-11
Bromide	2.00	U	1	0.27	2.00	mg/L		04/26/23 17:30	300.0
Chloride	5.70		1	0.11	0.60	mg/L		04/26/23 17:30	300.0
Nitrite	0.60	U	1	0.089	0.60	mg/L		04/26/23 17:30	300.0
Nitrate	0.50	U	1	0.084	0.50	mg/L		04/26/23 17:30	300.0
Sulfate	2.90	J	1	0.55	3.00	mg/L		04/26/23 17:30	300.0
Nitrate+Nitrite	1.10	U	1	0.17	1.10	mg/L		04/26/23 17:30	300.0
BOD5	6.46		1	0.17	2.00	mg/L		04/26/23 13:50	SM 5210 B-16
COD	126		1	2.52	10.0	mg/L		05/03/23 14:04	SM 5220 D-11
Cyanide	0.0027	J	1	0.0010	0.0050	mg/L	04/28/23 10:45	04/28/23 13:53	9012B
pH	7.87	H	1	0	0	pH		04/26/23 11:32	9040C
Phenolics	0.050	U	1	0.012	0.050	mg/L	04/27/23 09:45	04/27/23 11:46	420.1
TDS	332		1	1.00	10.0	mg/L		04/27/23 10:30	SM 2540 C-15
TKN	6.90		1	0.13	0.50	mg/L	05/03/23 10:30	05/04/23 11:11	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	8.90		1	0.37	1.00	mg/L		04/27/23 20:47	9060A

Comments: pH result reported at temperature 20.1 °C

U = Not Detected
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OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Initial and Continuing Calibration Verification

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**RunNo.:**	LB125158

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV**						
pH		pH	6.99	7	100	90-110	04/26/2023
Sample ID:	**CCV1**						
pH		pH	2.01	2.00	101	90-110	04/26/2023
Sample ID:	**CCV2**						
pH		pH	12.03	12.00	100	90-110	04/26/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125176

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
TOC		mg/L	10.3	10	103	90-110	04/04/2023
Sample ID:	CCV1						
TOC		mg/L	10	10	100	90-110	04/27/2023
Sample ID:	CCV2						
TOC		mg/L	10.5	10	105	90-110	04/27/2023
Sample ID:	CCV3						
TOC		mg/L	10.6	10	106	90-110	04/27/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125177

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	10.3	10	103	90-110	04/24/2023
Chloride	mg/L	3.1	3	103	90-110	04/24/2023
Fluoride	mg/L	1.9	2	95	90-110	04/24/2023
Nitrite	mg/L	3.1	3	103	90-110	04/24/2023
Nitrate	mg/L	2.6	2.5	104	90-110	04/24/2023
Sulfate	mg/L	15.4	15	103	90-110	04/24/2023
Orthophosphate as P	mg/L	4.7	5	94	90-110	04/24/2023
Sample ID: CCV1						
Bromide	mg/L	9.7	10	97	90-110	04/26/2023
Chloride	mg/L	2.9	3	97	90-110	04/26/2023
Fluoride	mg/L	1.9	2	95	90-110	04/26/2023
Nitrite	mg/L	2.9	3	97	90-110	04/26/2023
Nitrate	mg/L	2.4	2.5	96	90-110	04/26/2023
Sulfate	mg/L	14.7	15	98	90-110	04/26/2023
Orthophosphate as P	mg/L	5.5	5	110	90-110	04/26/2023
Sample ID: CCV2						
Bromide	mg/L	10.2	10	102	90-110	04/26/2023
Chloride	mg/L	3	3	100	90-110	04/26/2023
Fluoride	mg/L	2	2	100	90-110	04/26/2023
Nitrite	mg/L	3.1	3	103	90-110	04/26/2023
Nitrate	mg/L	2.5	2.5	100	90-110	04/26/2023
Sulfate	mg/L	15.3	15	102	90-110	04/26/2023
Orthophosphate as P	mg/L	6.1	5	122	90-110	04/26/2023
Sample ID: CCV3						
Bromide	mg/L	10.2	10	102	90-110	04/27/2023
Chloride	mg/L	3.1	3	103	90-110	04/27/2023
Fluoride	mg/L	2.1	2	105	90-110	04/27/2023
Nitrite	mg/L	3.1	3	103	90-110	04/27/2023
Nitrate	mg/L	2.5	2.5	100	90-110	04/27/2023
Sulfate	mg/L	15.4	15	103	90-110	04/27/2023
Orthophosphate as P	mg/L	6.3	5	126	90-110	04/27/2023
Sample ID: CCV4						
Bromide	mg/L	9.6	10	96	90-110	04/27/2023
Chloride	mg/L	2.9	3	97	90-110	04/27/2023
Fluoride	mg/L	2	2	100	90-110	04/27/2023
Nitrite	mg/L	2.9	3	97	90-110	04/27/2023
Nitrate	mg/L	2.4	2.5	96	90-110	04/27/2023
Sulfate	mg/L	14.4	15	96	90-110	04/27/2023
Orthophosphate as P	mg/L	5.7	5	114	90-110	04/27/2023
Sample ID: CCV5						
Bromide	mg/L	9.8	10	98	90-110	04/27/2023
Chloride	mg/L	2.9	3	97	90-110	04/27/2023
Fluoride	mg/L	1.9	2	95	90-110	04/27/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125177

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Nitrite	mg/L	2.9	3	97	90-110	04/27/2023
Nitrate	mg/L	2.4	2.5	96	90-110	04/27/2023
Sulfate	mg/L	14.6	15	97	90-110	04/27/2023
Orthophosphate as P	mg/L	5.7	5	114	90-110	04/27/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125184

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
Phenolics		mg/L	0.98	1	98	90-110	04/27/2023
Sample ID:	CCV1						
Phenolics		mg/L	0.94	1	94	90-110	04/27/2023
Sample ID:	CCV2						
Phenolics		mg/L	0.93	1	93	90-110	04/27/2023
Sample ID:	CCV3						
Phenolics		mg/L	0.94	1	94	90-110	04/27/2023

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Initial and Continuing Calibration Verification

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**RunNo.:**	LB125211

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
Cyanide		mg/L	0.096	0.099	97	90-110	04/28/2023
Sample ID:	**CCV1**						
Cyanide		mg/L	0.25	0.25	100	90-110	04/28/2023
Sample ID:	**CCV2**						
Cyanide		mg/L	0.24	0.25	96	90-110	04/28/2023
Sample ID:	**CCV3**						
Cyanide		mg/L	0.25	0.25	100	90-110	04/28/2023
Sample ID:	**CCV4**						
Cyanide		mg/L	0.24	0.25	96	90-110	04/28/2023
Sample ID:	**CCV5**						
Cyanide		mg/L	0.26	0.25	104	90-110	04/28/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125248

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
Ammonia as N		mg/L	0.91	1	91	90-110	05/02/2023
Sample ID:	CCV1						
Ammonia as N		mg/L	0.95	1	95	90-110	05/02/2023
Sample ID:	CCV2						
Ammonia as N		mg/L	0.94	1	94	90-110	05/02/2023
Sample ID:	CCV3						
Ammonia as N		mg/L	0.93	1	93	90-110	05/02/2023
Sample ID:	CCV4						
Ammonia as N		mg/L	0.97	1	97	90-110	05/02/2023
Sample ID:	CCV5						
Ammonia as N		mg/L	1	1	100	90-110	05/02/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125267

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
COD		mg/L	49.991	50	100	95-105	03/10/2023
Sample ID:	CCV1						
COD		mg/L	48.990	50	98	95-105	05/03/2023
Sample ID:	CCV2						
COD		mg/L	48.990	50	98	95-105	05/03/2023
Sample ID:	CCV3						
COD		mg/L	50.992	50	102	95-105	05/03/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125282

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
TKN		mg/L	4.9	5	98	90-110	05/04/2023
Sample ID:	CCV1						
TKN		mg/L	4.9	5	98	90-110	05/04/2023
Sample ID:	CCV2						
TKN		mg/L	4.8	5	96	90-110	05/04/2023
Sample ID:	CCV3						
TKN		mg/L	5.1	5	102	90-110	05/04/2023
Sample ID:	CCV4						
TKN		mg/L	5.1	5	102	90-110	05/04/2023

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Initial and Continuing Calibration Blank Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**RunNo.:**	LB125176

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	**ICB1**							
TOC		mg/L	0.47	0.5000	J	0.37	1	04/04/2023
Sample ID:	**CCB1**							
TOC		mg/L	0.39	0.5000	J	0.37	1	04/27/2023
Sample ID:	**CCB2**							
TOC		mg/L	< 0.5000	0.5000	U	0.37	1	04/27/2023
Sample ID:	**CCB3**							
TOC		mg/L	< 0.5000	0.5000	U	0.37	1	04/27/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125177

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/24/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/24/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/24/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/24/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/24/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/24/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/24/2023
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/26/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/26/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/26/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/26/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/26/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/26/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/26/2023
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/26/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/26/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/26/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/26/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/26/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/26/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/26/2023
Sample ID: CCB3							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/27/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/27/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/27/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/27/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/27/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/27/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/27/2023
Sample ID: CCB4							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/27/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/27/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/27/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/27/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/27/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/27/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/27/2023
Sample ID: CCB5							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/27/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/27/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/27/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/27/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/27/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/27/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/27/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125184

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Phenolics		mg/L	< 0.0250	0.0250	U	0.012	0.05	04/27/2023
Sample ID:	CCB1							
Phenolics		mg/L	< 0.0250	0.0250	U	0.012	0.05	04/27/2023
Sample ID:	CCB2							
Phenolics		mg/L	< 0.0250	0.0250	U	0.012	0.05	04/27/2023
Sample ID:	CCB3							
Phenolics		mg/L	< 0.0250	0.0250	U	0.012	0.05	04/27/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125211

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	04/28/2023
Sample ID:	CCB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	04/28/2023
Sample ID:	CCB2							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	04/28/2023
Sample ID:	CCB3							
Cyanide		mg/L	0.0011	0.0025	J	0.0010	0.005	04/28/2023
Sample ID:	CCB4							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	04/28/2023
Sample ID:	CCB5							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	04/28/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125248

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023
Sample ID: CCB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023
Sample ID: CCB2							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023
Sample ID: CCB3							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023
Sample ID: CCB4							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023
Sample ID: CCB5							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125267

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
COD	mg/L	< 5.0000	5.0000	U	2.52	10	03/10/2023
Sample ID: CCB1							
COD	mg/L	< 5.0000	5.0000	U	2.52	10	05/03/2023
Sample ID: CCB2							
COD	mg/L	< 5.0000	5.0000	U	2.52	10	05/03/2023
Sample ID: CCB3							
COD	mg/L	< 5.0000	5.0000	U	2.52	10	05/03/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125282

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
TKN	mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023
Sample ID: CCB1							
TKN	mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023
Sample ID: CCB2							
TKN	mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023
Sample ID: CCB3							
TKN	mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023
Sample ID: CCB4							
TKN	mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023

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Preparation Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB125161BL							
BOD5	mg/L	< 0.2000	0.2000	U	0.17	2.0	04/26/2023
Sample ID: LB125176BLW							
TOC	mg/L	< 0.5000	0.5000	U	0.37	1	04/27/2023
Sample ID: LB125177BLW							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/26/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/26/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/26/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/26/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/26/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/26/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.3	1	04/26/2023
Sample ID: LB125177BLW2							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/27/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/27/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/27/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/27/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/27/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/27/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.3	1	04/27/2023
Sample ID: LB125179BL							
TDS	mg/L	< 5.0000	5.0000	U	1.0	10	04/27/2023
Sample ID: LB125267BL							
COD	mg/L	< 5.0000	5.0000	U	2.52	10.0	05/03/2023
Sample ID: LB125289BLW							
Alkalinity	mg/L	< 1.0000	1.0000	U	1	2	05/04/2023
Sample ID: PB152437BL							
TKN	mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023
Sample ID: PB152445BL							
Phenolics	mg/L	< 0.0250	0.0250	U	0.012	0.05	04/27/2023
Sample ID: PB152488BL							
Cyanide	mg/L	< 0.0025	0.0025	U	0.001	0.005	04/28/2023
Sample ID: PB152517BL							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2495-01
Client ID: PZ-01MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/L	75-125	19.4		9.90		10	1	95		04/27/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2495-01
Client ID: PZ-01MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/L	75-125	21.8	OR	9.90		10	1	119		04/27/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2495-09
Client ID: GMW-5MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.8		0.27	U	10	1	108		04/26/2023
Chloride	mg/L	80-120	8.90	OR	5.70		3	1	107		04/26/2023
Fluoride	mg/L	80-120	3.50		0.41		2	1	155	*	04/26/2023
Nitrite	mg/L	80-120	3.10		0.089	U	3	1	103		04/26/2023
Nitrate	mg/L	80-120	2.70		0.084	U	2.5	1	108		04/26/2023
Sulfate	mg/L	80-120	19.3		2.90	J	15	1	109		04/26/2023
Orthophosphate as P	mg/L	80-120	8.40		0.30	U	5	1	168	*	04/26/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2495-09
Client ID: GMW-5MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.4		0.27	U	10	1	104		04/26/2023
Chloride	mg/L	80-120	8.80	OR	5.70		3	1	103		04/26/2023
Fluoride	mg/L	80-120	3.50		0.41		2	1	155	*	04/26/2023
Nitrite	mg/L	80-120	3.00		0.089	U	3	1	100		04/26/2023
Nitrate	mg/L	80-120	2.60		0.084	U	2.5	1	104		04/26/2023
Sulfate	mg/L	80-120	18.5		2.90	J	15	1	104		04/26/2023
Orthophosphate as P	mg/L	80-120	8.70		0.30	U	5	1	174	*	04/26/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/L	75-125	2.20	OR	1.50		1	1	70	*	05/02/2023
COD	mg/L	75-125	61.0		15.0		50.0	1	92		05/03/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/L	75-125	0.057		0.010		0.04	1	117		04/28/2023
TKN	mg/L	75-125	9.50		4.70		5	1	96		05/04/2023
Phenolics	mg/L	75-125	0.44		0.012	U	1	1	44	*	04/27/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/L	75-125	2.20	OR	1.50		1	1	70	*	05/02/2023
COD	mg/L	75-125	62.0		15.0		50.0	1	94		05/03/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/L	75-125	0.057		0.010		0.04	1	117		04/28/2023
TKN	mg/L	75-125	9.00		4.70		5	1	86		05/04/2023
Phenolics	mg/L	75-125	0.41		0.012	U	1	1	41	*	04/27/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2495-01
Client ID: PZ-01DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
BOD5	mg/L	+/-20	26.6		26.6		1	0		04/26/2023
Alkalinity	mg/L	+/-20	363		359		1	1		05/04/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2495-01
Client ID: PZ-01MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TOC	mg/L	+/-20	19.4		21.8	OR	1	12		04/27/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2495-09
Client ID: GMW-5DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TDS	mg/L	+/-5	332		333		1	0.3		04/27/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2495-09
Client ID: GMW-5MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Fluoride	mg/L	+/-20	3.50		3.50		1	0		04/26/2023
Chloride	mg/L	+/-20	8.90	OR	8.80	OR	1	1		04/26/2023
Nitrite	mg/L	+/-20	3.10		3.00		1	3		04/26/2023
Bromide	mg/L	+/-20	10.8		10.4		1	4		04/26/2023
Nitrate	mg/L	+/-20	2.70		2.60		1	4		04/26/2023
Orthophosphate as P	mg/L	+/-20	8.40		8.70		1	4		04/26/2023
Sulfate	mg/L	+/-20	19.3		18.5		1	4		04/26/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2496-01
Client ID: TOTE-4-25-2023DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
pH	pH	+/-20	7.37		7.38		1	0.14		04/26/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Phenolics	mg/L	+/-20	0.012	U	0.012	U	1	0		04/27/2023
Cyanide	mg/L	+/-20	0.010		0.0097		1	3		04/28/2023
Ammonia as N	mg/L	+/-20	1.50		1.50		1	0		05/02/2023
COD	mg/L	+/-20	15.0		14.0		1	6.9		05/03/2023
TKN	mg/L	+/-20	4.70		4.90		1	4		05/04/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ammonia as N	mg/L	+/-20	2.20	OR	2.20	OR	1	0		05/02/2023
COD	mg/L	+/-20	61.0		62.0		1	1.63		05/03/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Phenolics	mg/L	+/-20	0.44		0.41		1	7		04/27/2023
Cyanide	mg/L	+/-20	0.057		0.057		1	0		04/28/2023
TKN	mg/L	+/-20	9.50		9.00		1	5		05/04/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**Run No.:**	LB125161

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125161BS								
BOD5	mg/L	198	196		99	1	84.6-115.4	04/26/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**Run No.:**	LB125176

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125176BSW								
TOC	mg/L	10	10.3		103	1	90-110	04/27/2023

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Laboratory Control Sample Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **Run No.:** LB125177

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125177BSW								
Bromide	mg/L	10	9.80		98	1	90-110	04/26/2023
Chloride	mg/L	3	2.90		97	1	90-110	04/26/2023
Fluoride	mg/L	2	1.90		95	1	90-110	04/26/2023
Nitrite	mg/L	3	2.90		97	1	90-110	04/26/2023
Nitrate	mg/L	2.5	2.40		96	1	90-110	04/26/2023
Sulfate	mg/L	15	14.7		98	1	90-110	04/26/2023
Orthophosphate as P	mg/L	5	5.10		102	1	90-110	04/26/2023

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Laboratory Control Sample Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **Run No.:** LB125177

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125177BSW2								
Bromide	mg/L	10	9.70		97	1	90-110	04/27/2023
Chloride	mg/L	3	2.90		97	1	90-110	04/27/2023
Fluoride	mg/L	2	1.90		95	1	90-110	04/27/2023
Nitrite	mg/L	3	2.90		97	1	90-110	04/27/2023
Nitrate	mg/L	2.5	2.40		96	1	90-110	04/27/2023
Sulfate	mg/L	15	14.5		97	1	90-110	04/27/2023
Orthophosphate as P	mg/L	5	5.10		102	1	90-110	04/27/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**Run No.:**	LB125179

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125179BS								
TDS	mg/L	100	94.0		94	1	90-110	04/27/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**Run No.:**	LB125267

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125267BS								
COD	mg/L	50	50.0		100	1	90-110	05/03/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**Run No.:**	LB125289

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125289BSW								
Alkalinity	mg/L	50	56.0		112	1	80-120	05/04/2032

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**Run No.:**	LB125282

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB152437BS								
TKN	mg/L	5	5.10		102	1	90-110	05/04/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**Run No.:**	LB125184

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB152445BS								
Phenolics	mg/L	1	0.97		97	1	80-120	04/27/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**Run No.:**	LB125211

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB152488BS								
Cyanide	mg/L	0.1	0.097		97	1	85-115	04/28/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**Run No.:**	LB125248

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB152517BS								
Ammonia as N	**mg/L**	**1**	**0.93**		**93**	**1**	**90-110**	**05/02/2023**

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. 02495
COC Number 2038360

9
9.1

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: GEI Consultants
ADDRESS: 530 7th Ave. Suite 2007
CITY NY STATE: NY ZIP: 10018
ATTENTION: Stacey Ng
PHONE: (347) 514-3861 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Ferry Point
PROJECT NO.: 2204594 LOCATION: Bronx, NY
PROJECT MANAGER: Stacey Ng
e-mail: sng@geiconsultants.com
PHONE: Same FAX:

CLIENT BILLING INFORMATION

BILL TO: SAME AS CLIENT PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ EDD FORMAT
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☒ NYS ASP A ☐ NYS ASP B
- ☐ Other

ANALYSIS

1 Phenolics, 2 TCL VOC, 3 Color, 4 BOD5, 5 Alkalinity, 6 TDS, 7 TCL SVOC, 8 Mercury, 9 TAL Metals, Hardness

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
1.	PZ-01	W			4/25/23	8:49	19	X	X	X	X	X	X	X	X	X	
2.	PZ-02	↓			↓	9:53	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
3.	GMW-11	↓			↓	11:52	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
4.	GMW-X	↓			↓	11:52	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
5.	GMW-5	↓			↓	13:47	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
6.	Trip Blank	↓															
7.																	
8.																	
9.																	
10.																	

PRESERVATIVES — ← Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	4/25/23 14:55	1. [signature] 1455 4-25-23
2.		2.
3. [signature]	4-25-23 1720	3. —

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.0 °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
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www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. 02495
COC Number 2038361

9
9.1

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: GEI Consultants
ADDRESS: 530 7th Ave, Suite 2007
CITY NY STATE: NY ZIP: 10018
ATTENTION: Stacey Ng
PHONE: (347) 514-3861 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Ferry Point
PROJECT NO.: 2204594 LOCATION: Bronx, NY
PROJECT MANAGER: Stacey Ng
e-mail: sng@geiconsultants.com
PHONE: SAME FAX:

CLIENT BILLING INFORMATION

BILL TO: SAME AS CLIENT PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☒ NYS ASP A ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT _____

ANALYSIS

1 Cyanide, 2 COD, 3 Ammonia, 4 TKN, 5 Dissolved TAL metals, 6 Chloride, Bromide, Nitrate, Nitrite, Sulfate, 7 pH, 8 TOC, 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	PZ-01	W			4/25/23	8:49	19	X	X	X	X	X	X	X	X		
2.	PZ-02	↓			↓	9:53	↓	↓	↓	↓	↓	↓	↓	↓	↓		
3.	GMW-11					11:52											
4.	GMW-X					11:52											
5.	GMW-5					13:47			↓	↓	↓	↓	↓	↓	↓		
6.	Trip Blank							↓									
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	4/25/23 14:55	1. [signature] 1455 4-25-23
2.		2.
3. [signature]	1720 4-25-23	3. —

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.0 °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2022022
Maryland	296
New Hampshire	255422
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488-22-15

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : O2495 GEIC06
Client Name : GEI Consultants, Inc., P.C.
Client Contact : Stacey Ng
Invoice Name : GEI Consultants, Inc., P.C.
Invoice Contact : Stacey Ng

Order Date : 4/25/2023 3:22:44 PM
Project Name : Ferry Point
Receive DateTime : 4/25/2023 ~~12:00:00 AM~~ 5:24pm SB 4-26
Purchase Order :

Project Mgr :
Report Type : ~~Level 2~~ NYS ASP A SB 5/1/23
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
O2495-01	PZ-01	Water	04/25/2023	08:49					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
O2495-03	PZ-02	Water	04/25/2023	09:53					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
O2495-05	GMW-11	Water	04/25/2023	11:52					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
O2495-07	GMW-X	Water	04/25/2023	11:52					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
O2495-09	GMW-5	Water	04/25/2023	13:47					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
O2495-11	TRIP-BLANK	Water	04/25/2023	00:00					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days

Relinguished By :
Date / Time : 4/26/23 0900

Received By :
Date / Time : 4/26/23 09:00 Rep #4
Storage Area : VOA Refridgerator Room

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

GEI Consultants, Inc., P.C.
Project Name: Ferry Point
Project # N/A
Chemtech Project # O2495
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
11 Water samples were received on 04/25/2023.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, COD, Cyanide, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Hardness, Total, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics, SVOC-TCL BNA -20, TDS, TKN, TOC and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID VX035415.D met the requirements except for 2-Butanone is failing marginally Low therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

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Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature S. M. Jodhani

APPROVED

By Sohil Jodhani, QA/QC Director at 9:05 am, Jul 12, 2023

CHEMTECH

DATA PACKAGE

VOLATILE ORGANICS
GENERAL CHEMISTRY
METALS
SEMI-VOLATILE ORGANICS

PROJECT NAME : FERRY POINT

GEI CONSULTANTS, INC., P.C.

530 7th Ave, Suite 2007

New York, NY - 10018

Phone No: 212-845-9965

ORDER ID : O2521

ATTENTION : Stacey Ng

Laboratory Certification ID # 20012

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Cover Page

Order ID : O2521

Project ID : Ferry Point

Client : GEI Consultants, Inc., P.C.

Lab Sample Number	Client Sample Number
O2521-01	GMW-1
O2521-02	GMW-1
O2521-03	PZ-15
O2521-04	PZ-15
O2521-05	GMW-10
O2521-06	GMW-10
O2521-07	GMW-7
O2521-08	GMW-7
O2521-09	GMW-7MS
O2521-10	GMW-7MSD
O2521-11	GMW-7MS
O2521-12	GMW-7MSD
O2521-13	TB-2
O2521-14	FB
O2521-15	FB

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:23 am, May 12, 2023

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

GEI Consultants, Inc., P.C.
Project Name: Ferry Point
Project # N/A
Chemtech Project # O2521
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
15 Water samples were received on 04/26/2023.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, COD, Cyanide, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Hardness, Total, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics, SVOC-TCL BNA -20, TDS, TKN, TOC and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {O2521-09MS} with File ID: VX035489.D recoveries met the requirements for all compounds except for 1,2,3-Trichlorobenzene[73%] due to matrix interference.
The MSD {O2521-10MSD} with File ID: VX035490.D recoveries met the acceptable requirements except for 1,1,2-Trichlorotrifluoroethane[69%], Carbon Tetrachloride[83%], Cyclohexane[70%] and Methylcyclohexane[56%] due to matrix interference.
The RPD met criteria .

The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID VX035466.D met the requirements except for Bromomethane is failing marginally Low therefore no corrective action taken.
The Tuning criteria met requirements.

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E. Additional Comments:

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:23 am, May 12, 2023

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CASE NARRATIVE

GEI Consultants, Inc., P.C.
Project Name: Ferry Point
Project # N/A
Chemtech Project # O2521
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
15 Water samples were received on 04/26/2023.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, COD, Cyanide, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Hardness, Total, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics, SVOC-TCL BNA -20, TDS, TKN, TOC and VOC-TCLVOA-10. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {O2521-09MS} with File ID: BF133152.D recoveries met the requirements for all compounds except for 1,2,4,5-Tetrachlorobenzene[73%], 1,4-Dioxane[32%] and 2,3,4,6-Tetrachlorophenol[79%] due to matrix interference.
The MSD {O2521-10MSD} with File ID: BF133153.D recoveries met the acceptable requirements except for 1,2,4,5-Tetrachlorobenzene[72%], 1,4-Dioxane[31%] and 2,3,4,6-Tetrachlorophenol[79%] due to matrix interference.
The RPD met criteria .

The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 20% in the Initial Calibration method (Method 8270-BF042123.M) for Benzaldehyde,this compound is passing on Quadratic regression.

The Continuous Calibration met the requirements .

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The Tuning criteria met requirements.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya QA/QC Supervisor at 10:24 am, May 12, 2023

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CASE NARRATIVE

GEI Consultants, Inc., P.C.
Project Name: Ferry Point
Project # N/A
Chemtech Project # O2521
Test Name: Dissolved ICP-TAL Metals,Metals ICP-TAL,Dissolved Mercury,Mercury

A. Number of Samples and Date of Receipt:
15 Water samples were received on 04/26/2023.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, COD, Cyanide, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Hardness, Total, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics, SVOC-TCL BNA -20, TDS, TKN, TOC and VOC-TCLVOA-10. This data package contains results for Dissolved ICP-TAL Metals,Metals ICP-TAL,Dissolved Mercury,Mercury.

C. Analytical Techniques:
The analysis of Dissolved ICP-TAL Metals,Metals ICP-TAL was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of Dissolved Mercury,Mercury was based on method 7470A.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.

The Matrix Spike (GMW-7MS-for Total sample) analysis met criteria for all samples except for Aluminum, Barium, Iron, Manganese, Zinc due to chemical interference during digestion process.

The Matrix Spike (GMW-7MS-for Dissolved sample) analysis met criteria for all samples except for Barium, Manganese, Zinc due to chemical interference during digestion process.

The Matrix Spike Duplicate(GMW-7MSD-for Total sample) analysis met criteria for all samples except for Aluminum, Barium, Iron, Manganese, Zinc due to chemical interference during digestion process.

The Matrix Spike Duplicate(GMW-7MSD-for Dissolved sample) analysis met criteria for all samples except for Barium, Manganese, Zinc due to chemical interference during digestion process.

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The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:
Samples O2521-01, O2521-03, O2521-05, O2521-07 and O2521-14 were analyzed as Total Metals while Samples O2521-02, O2521-04, O2521-06, O2521-08 and O2521-15 were analyzed as Dissolved Metals.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya QA/QC Supervisor at 10:24 am, May 12, 2023

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CASE NARRATIVE

GEI Consultants, Inc., P.C.
Project Name: Ferry Point
Project # N/A
Chemtech Project # O2521
Test Name:
pH,Alkalinity,Cyanide,TOC,Phenolics,TKN,Ammonia,TDS,COD,BOD5,Anions Group1

A. Number of Samples and Date of Receipt:
15 Water samples were received on 04/26/2023.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, COD, Cyanide, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Hardness, Total, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics, SVOC-TCL BNA -20, TDS, TKN, TOC and VOC-TCLVOA-10. This data package contains results for pH, Alkalinity, Cyanide, TOC, Phenolics, TKN, Ammonia, TDS, COD, BOD5, Anions Group1.

C. Analytical Techniques:
The analysis of Anions Group1 was based on method 300.0, The analysis of Phenolics was based on method 420.1, The analysis of Cyanide was based on method 9012B, The analysis of pH was based on method 9040C, The analysis of TOC was based on method 9060A, The analysis of Alkalinity was based on method SM2320 B, The analysis of TDS was based on method SM2540 C, The analysis of TKN was based on method SM4500 N Org B or C, The analysis of Ammonia was based on method SM4500-NH3, The analysis of BOD5 was based on method SM5210 B and The analysis of COD was based on method SM5220 D.

D. QA/ QC Samples:
The Holding Times were met for all samples except for FB of pH, for GMW-1 of pH.for GMW-10 of pH.for GMW-7 of pH.for PZ-15 of pH as samples were receive out of hold.
Sample GMW-1 was diluted due to high concentrations for Ammonia as N, TKN, TOC, Chloride & Sample PZ-15 was diluted due to high concentrations for Ammonia as N, TKN, TOC, Chloride & Sample GMW-10 was diluted due to high concentrations for TOC, Chloride, Sulfate & Sample GMW-7 was diluted due to high concentrations for Chloride, Sulfate.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (MW-4MS) analysis met criteria for all samples except for Chloride due to matrix interferences. The Matrix Spike (GMW-7MS) analysis met criteria for all samples except for Nitrite, Ammonia as N and Phenolics due to matrix interferences.
The Matrix Spike Duplicate (MW-4MSD) analysis met criteria for all samples except for Chloride due to matrix interferences. The Matrix Spike Duplicate (GMW-7MSD)

analysis met criteria for all samples except for Nitrite, Ammonia as N and Phenolics due to matrix interferences.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:
Sample O2521-01 and O2521-01 were analyzed Straight 10X Dilution for COD because the original samples were reading over range, only 10X has been reported.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya QA/QC Supervisor at 10:25 am, May 12, 2023

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DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).

U Indicates the analyte was analyzed for, but not detected.

ND Indicates the analyte was analyzed for, but not detected

E Indicates the reported value is estimated because of the presence of interference

M Indicates Duplicate injection precision not met.

N Indicates the spiked sample recovery is not within control limits.

S Indicates the reported value was determined by the Method of Standard Addition (MSA).

***** Indicates that the duplicate analysis is not within control limits.

+ Indicates the correlation coefficient for the MSA is less than 0.995.

D Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

M Method qualifiers
"P" for ICP instrument
"PM" for ICP when Microwave Digestion is used
"CV" for Manual Cold Vapor AA
"AV" for automated Cold Vapor AA
"CA" for MIDI-Distillation Spectrophotometric
"AS" for Semi –Automated Spectrophotometric
"C" for Manual Spectrophotometric
"T" for Titrimetric
"NR" for analyte not required to be analyzed

OR Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.

Q Indicates the LCS did not meet the control limits requirements

H Sample Analysis Out Of Hold Time

QA Control # A3040961

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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

QA Control # A3040960

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: O2521

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: SOHIL JODHANI **Date:** 05/12/2023

2nd Level QA Review Signature: N. N. Pandya **Date:**

APPROVED
By Nimisha Pandya QA/QC Supervisor at 10:25 am, May 12, 2023

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Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	O2521	**OrderDate:**	4/27/2023 8:52:00 AM
Client:	GEI Consultants, Inc., P.C.	**Project:**	Ferry Point
Contact:	Stacey Ng	**Location:**	M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O2521-01	**GMW-1**	**Water**			**04/26/23**			**04/26/23**
			VOC-TCLVOA-10	8260-Low			05/02/23	
O2521-03	**PZ-15**	**Water**			**04/26/23**			**04/26/23**
			VOC-TCLVOA-10	8260-Low			05/02/23	
O2521-05	**GMW-10**	**Water**			**04/26/23**			**04/26/23**
			VOC-TCLVOA-10	8260-Low			05/02/23	
O2521-07	**GMW-7**	**Water**			**04/26/23**			**04/26/23**
			VOC-TCLVOA-10	8260-Low			05/02/23	
O2521-13	**TB-2**	**Water**			**04/26/23**			**04/26/23**
			VOC-TCLVOA-10	8260-Low			05/02/23	
O2521-14	**FB**	**Water**			**04/26/23**			**04/26/23**
			VOC-TCLVOA-10	8260-Low			05/02/23	

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Hit Summary Sheet
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**GMW-1**								
O2521-01	GMW-1	Water	Acetone		280		1.20	5.00	ug/L
O2521-01	GMW-1	Water	2-Butanone		1.90	J	1.20	5.00	ug/L
O2521-01	GMW-1	Water	Chlorobenzene		3.30		0.12	1.00	ug/L
O2521-01	GMW-1	Water	1,4-Dichlorobenzene		0.88	J	0.24	1.00	ug/L
			Total Voc :		286				
O2521-01	GMW-1	Water	Sulfur dioxide	*	6.90	J	0	0	ug/L
			Total Tics :		6.90				
			Total Concentration:		293				
Client ID:	**PZ-15**								
O2521-03	PZ-15	Water	Acetone		10.9		1.20	5.00	ug/L
O2521-03	PZ-15	Water	Carbon Disulfide		0.35	J	0.27	1.00	ug/L
O2521-03	PZ-15	Water	Chlorobenzene		12.5		0.12	1.00	ug/L
O2521-03	PZ-15	Water	Isopropylbenzene		0.44	J	0.13	1.00	ug/L
O2521-03	PZ-15	Water	1,4-Dichlorobenzene		1.10		0.24	1.00	ug/L
			Total Voc :		25.3				
O2521-03	PZ-15	Water	unknown13.122	*	6.30	J	0	0	ug/L
O2521-03	PZ-15	Water	Benzene, 1-ethenyl-2-methyl-	*	5.30	J	0	0	ug/L
O2521-03	PZ-15	Water	Sulfur dioxide	*	5.80	J	0	0	ug/L
O2521-03	PZ-15	Water	Tetrahydrofuran	*	1.00	J	0.85	5.00	ug/L
O2521-03	PZ-15	Water	tert-Butylbenzene	*	0.32	J	0.16	1.00	ug/L
O2521-03	PZ-15	Water	sec-Butylbenzene	*	0.47	J	0.16	1.00	ug/L
			Total Tics :		19.2				
			Total Concentration:		44.5				
Client ID:	**GMW-10**								
O2521-05	GMW-10	Water	Acetone		6.40		1.20	5.00	ug/L
O2521-05	GMW-10	Water	Chlorobenzene		0.37	J	0.12	1.00	ug/L
			Total Voc :		6.77				
O2521-05	GMW-10	Water	Sulfur dioxide	*	5.90	J	0	0	ug/L
			Total Tics :		5.90				
			Total Concentration:		12.7				
Client ID:	**GMW-7**								
O2521-07	GMW-7	Water	Acetone		2.80	J	1.20	5.00	ug/L
			Total Voc :		2.80				
O2521-07	GMW-7	Water	Aminomethanesulfonic acid	*	5.30	J	0	0	ug/L
			Total Tics :		5.30				
			Total Concentration:		8.10				
Client ID:	**TB-2**								
O2521-13	TB-2	Water	Sulfur dioxide	*	14.2	J	0	0	ug/L
			Total Tics :		14.2				

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Hit Summary Sheet
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
			Total Concentration:		14.2				
Client ID:	**FB**								
O2521-14	FB	Water	Acetone		2.40	J	1.20	5.00	ug/L
O2521-14	FB	Water	Methylene Chloride		0.68	J	0.50	1.00	ug/L
			Total Voc :		3.08				
O2521-14	FB	Water	Sulfur dioxide	*	16.6	J	0	0	ug/L
			Total Tics :		16.6				
			Total Concentration:		19.7				

SAMPLE DATA

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1	SDG No.:	O2521
Lab Sample ID:	O2521-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035479.D	1		05/02/23 15:12	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	280		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.90	J	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1	SDG No.:	O2521
Lab Sample ID:	O2521-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035479.D	1		05/02/23 15:12	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	3.30		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.88	J	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.6		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.4		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		64 - 133	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	220000	5.55			
540-36-3	1,4-Difluorobenzene	353000	6.763			
3114-55-4	Chlorobenzene-d5	316000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	144000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
007446-09-5	Sulfur dioxide	6.90	J		1.26	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1	SDG No.:	O2521
Lab Sample ID:	O2521-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035479.D	1		05/02/23 15:12	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15	SDG No.:	O2521
Lab Sample ID:	O2521-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035480.D	1		05/02/23 15:35	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	10.9		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	0.35	J	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15	SDG No.:	O2521
Lab Sample ID:	O2521-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035480.D	1		05/02/23 15:35	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	12.5		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	0.44	J	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.10		0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.7		74 - 125	97%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.6		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.3		64 - 133	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	234000	5.556			
540-36-3	1,4-Difluorobenzene	376000	6.757			
3114-55-4	Chlorobenzene-d5	348000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	172000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
007446-09-5	Sulfur dioxide	5.80	J		1.26	ug/L
109-99-9	Tetrahydrofuran	1.00	J		5.04	ug/L
98-06-6	tert-Butylbenzene	0.32	J		11.7	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15	SDG No.:	O2521
Lab Sample ID:	O2521-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035480.D	1		05/02/23 15:35	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
135-98-8	sec-Butylbenzene	0.47	J		11.9	ug/L
000611-15-4	Benzene, 1-ethenyl-2-methyl-	5.30	J		12.2	ug/L
	unknown13.122	6.30	J		13.1	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10	SDG No.:	O2521
Lab Sample ID:	O2521-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035481.D	1		05/02/23 15:58	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	6.40		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10	SDG No.:	O2521
Lab Sample ID:	O2521-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035481.D	1		05/02/23 15:58	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	0.37	J	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.0		74 - 125	98%	SPK: 50
1868-53-7	Dibromofluoromethane	48.7		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	51.5		86 - 113	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.7		64 - 133	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	240000	5.556			
540-36-3	1,4-Difluorobenzene	398000	6.763			
3114-55-4	Chlorobenzene-d5	366000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	172000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
007446-09-5	Sulfur dioxide	5.90	J		1.26	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10	SDG No.:	O2521
Lab Sample ID:	O2521-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035481.D	1		05/02/23 15:58	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7	SDG No.:	O2521
Lab Sample ID:	O2521-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035482.D	1		05/02/23 16:22	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	2.80	J	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7	SDG No.:	O2521
Lab Sample ID:	O2521-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035482.D	1		05/02/23 16:22	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.4		74 - 125	97%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	50.9		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.4		64 - 133	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	226000	5.55			
540-36-3	1,4-Difluorobenzene	370000	6.763			
3114-55-4	Chlorobenzene-d5	337000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	158000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
013881-91-9	Aminomethanesulfonic acid	5.30	J		1.26	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7	SDG No.:	O2521
Lab Sample ID:	O2521-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035482.D	1		05/02/23 16:22	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	TB-2	SDG No.:	O2521
Lab Sample ID:	O2521-13	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035476.D	1		05/02/23 14:02	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	5.00	U	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	TB-2	SDG No.:	O2521
Lab Sample ID:	O2521-13	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035476.D	1		05/02/23 14:02	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.9		74 - 125	96%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	50.1		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		64 - 133	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	245000	5.556			
540-36-3	1,4-Difluorobenzene	398000	6.763			
3114-55-4	Chlorobenzene-d5	350000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	160000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
007446-09-5	Sulfur dioxide	14.2	J		1.25	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	TB-2	SDG No.:	O2521
Lab Sample ID:	O2521-13	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035476.D	1		05/02/23 14:02	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	FB	SDG No.:	O2521
Lab Sample ID:	O2521-14	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035475.D	1		05/02/23 13:39	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	2.40	J	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	0.68	J	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	FB	SDG No.:	O2521
Lab Sample ID:	O2521-14	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035475.D	1		05/02/23 13:39	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.1		74 - 125	98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.4		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.0		64 - 133	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	230000	5.55			
540-36-3	1,4-Difluorobenzene	377000	6.763			
3114-55-4	Chlorobenzene-d5	348000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	168000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
007446-09-5	Sulfur dioxide	16.6	J		1.25	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	FB	SDG No.:	O2521
Lab Sample ID:	O2521-14	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035475.D	1		05/02/23 13:39	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Surrogate Summary

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
O2521-01	GMW-1	1,2-Dichloroethane-d4	50	49.6	99	74	125
		Dibromofluoromethane	50	50.3	101	75	124
		Toluene-d8	50	50.4	101	86	113
		4-Bromofluorobenzene	50	49.9	100	64	133
O2521-03	PZ-15	1,2-Dichloroethane-d4	50	48.7	97	74	125
		Dibromofluoromethane	50	50.5	101	75	124
		Toluene-d8	50	50.6	101	86	113
		4-Bromofluorobenzene	50	54.3	109	64	133
O2521-05	GMW-10	1,2-Dichloroethane-d4	50	49.0	98	74	125
		Dibromofluoromethane	50	48.7	97	75	124
		Toluene-d8	50	51.5	103	86	113
		4-Bromofluorobenzene	50	51.7	103	64	133
O2521-07	GMW-7	1,2-Dichloroethane-d4	50	48.4	97	74	125
		Dibromofluoromethane	50	50.3	100	75	124
		Toluene-d8	50	50.9	102	86	113
		4-Bromofluorobenzene	50	51.4	103	64	133
O2521-09MS	GMW-7MS	1,2-Dichloroethane-d4	50	51.6	103	74	125
		Dibromofluoromethane	50	46.0	92	75	124
		Toluene-d8	50	43.6	87	86	113
		4-Bromofluorobenzene	50	43.0	86	64	133
O2521-10MSD	GMW-7MSD	1,2-Dichloroethane-d4	50	62.4	125	74	125
		Dibromofluoromethane	50	56.0	112	75	124
		Toluene-d8	50	53.0	106	86	113
		4-Bromofluorobenzene	50	55.0	110	64	133
O2521-13	TB-2	1,2-Dichloroethane-d4	50	47.9	96	74	125
		Dibromofluoromethane	50	50.2	100	75	124
		Toluene-d8	50	50.1	100	86	113
		4-Bromofluorobenzene	50	49.0	98	64	133
O2521-14	FB	1,2-Dichloroethane-d4	50	49.1	98	74	125
		Dibromofluoromethane	50	50.6	101	75	124
		Toluene-d8	50	50.4	101	86	113
		4-Bromofluorobenzene	50	53.0	106	64	133
VX0502WBL01	VX0502WBL01	1,2-Dichloroethane-d4	50	47.1	94	74	125
		Dibromofluoromethane	50	49.6	99	75	124
		Toluene-d8	50	50.6	101	86	113
		4-Bromofluorobenzene	50	51.5	103	64	133
VX0502WBS01	VX0502WBS01	1,2-Dichloroethane-d4	50	49.6	99	74	125
		Dibromofluoromethane	50	51.9	104	75	124
		Toluene-d8	50	50.6	101	86	113
		4-Bromofluorobenzene	50	51.4	103	64	133

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low

Lab Sample ID : O2521-09MS **Client Sample ID :** GMW-7MS **Datafile :** VX035489.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Dichlorodifluoromethane	50	0	41.4	ug/L	83				73	120	
Chloromethane	50	0	40.3	ug/L	81				58	133	
Vinyl chloride	50	0	41.7	ug/L	83				69	125	
Bromomethane	50	0	34.2	ug/L	68				61	120	
Chloroethane	50	0	44.0	ug/L	88				58	134	
Trichlorofluoromethane	50	0	42.9	ug/L	86				72	124	
1,1,2-Trichlorotrifluoroethane	50	0	38.7	ug/L	77				75	117	
1,1-Dichloroethene	50	0	41.9	ug/L	84				77	118	
Acetone	250	2.80	270	ug/L	107				57	139	
Carbon disulfide	50	0	38.1	ug/L	76				67	118	
Methyl tert-butyl Ether	50	0	53.6	ug/L	107				60	148	
Methyl Acetate	50	0	54.0	ug/L	108				60	133	
Methylene Chloride	50	0	44.4	ug/L	89				79	115	
trans-1,2-Dichloroethene	50	0	44.4	ug/L	89				76	118	
1,1-Dichloroethane	50	0	48.3	ug/L	97				78	122	
Cyclohexane	50	0	40.3	ug/L	81				71	119	
2-Butanone	250	0	310	ug/L	124				67	137	
Carbon Tetrachloride	50	0	42.2	ug/L	84				84	115	
cis-1,2-Dichloroethene	50	0	50.2	ug/L	100				82	124	
Bromochloromethane	50	0	50.6	ug/L	101				72	130	
Chloroform	50	0	52.4	ug/L	105				83	119	
1,1,1-Trichloroethane	50	0	48.1	ug/L	96				83	117	
Methylcyclohexane	50	0	33.0	ug/L	66				64	120	
Benzene	50	0	44.6	ug/L	89				63	133	
1,2-Dichloroethane	50	0	48.3	ug/L	97				76	120	
Trichloroethene	50	0	41.7	ug/L	83				33	175	
1,2-Dichloropropane	50	0	47.0	ug/L	94				85	116	
Bromodichloromethane	50	0	48.8	ug/L	98				86	117	
4-Methyl-2-Pentanone	250	0	280	ug/L	112				72	137	
Toluene	50	0	44.2	ug/L	88				85	115	
t-1,3-Dichloropropene	50	0	46.2	ug/L	92				78	117	
cis-1,3-Dichloropropene	50	0	45.4	ug/L	91				77	115	
1,1,2-Trichloroethane	50	0	49.3	ug/L	99				87	119	
2-Hexanone	250	0	290	ug/L	116				75	131	
Dibromochloromethane	50	0	52.0	ug/L	104				88	118	
1,2-Dibromoethane	50	0	50.6	ug/L	101				85	119	
Tetrachloroethene	50	0	37.8	ug/L	76				65	114	
Chlorobenzene	50	0	43.8	ug/L	88				85	114	
Ethyl Benzene	50	0	42.0	ug/L	84				62	134	
m/p-Xylenes	100	0	82.9	ug/L	83				47	145	
o-Xylene	50	0	43.6	ug/L	87				56	140	
Styrene	50	0	43.8	ug/L	88				84	128	
Bromoform	50	0	53.6	ug/L	107				83	121	
Isopropylbenzene	50	0	44.3	ug/L	89				76	121	
1,1,2,2-Tetrachloroethane	50	0	56.7	ug/L	113				66	145	
1,3-Dichlorobenzene	50	0	44.0	ug/L	88				84	110	
1,4-Dichlorobenzene	50	0	42.0	ug/L	84				81	111	

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
1,2-Dichlorobenzene	50	0	45.0	ug/L	90				82	113	
1,2-Dibromo-3-Chloropropane	50	0	61.8	ug/L	124				79	137	
1,2,4-Trichlorobenzene	50	0	36.5	ug/L	73				73	120	
1,2,3-Trichlorobenzene	50	0	36.7	ug/L	73	*			75	119	

CHEMTECH

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low

Lab Sample ID : O2521-10MSD **Client Sample ID :** GMW-7MSD **Datafile :** VX035490.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Dichlorodifluoromethane	50	0	36.3	ug/L	73		13		73	120	20
Chloromethane	50	0	43.4	ug/L	87		7		58	133	20
Vinyl chloride	50	0	42.1	ug/L	84		1		69	125	20
Bromomethane	50	0	39.1	ug/L	78		13		61	120	20
Chloroethane	50	0	42.3	ug/L	85		4		58	134	20
Trichlorofluoromethane	50	0	41.1	ug/L	82		4		72	124	20
1,1,2-Trichlorotrifluoroethane	50	0	34.6	ug/L	69	*	11		75	117	20
1,1-Dichloroethene	50	0	42.4	ug/L	85		1		77	118	20
Acetone	250	2.80	260	ug/L	103		4		57	139	20
Carbon disulfide	50	0	41.3	ug/L	83		8		67	118	20
Methyl tert-butyl Ether	50	0	57.3	ug/L	115		7		60	148	20
Methyl Acetate	50	0	51.3	ug/L	103		5		60	133	20
Methylene Chloride	50	0	48.1	ug/L	96		8		79	115	20
trans-1,2-Dichloroethene	50	0	46.3	ug/L	93		4		76	118	20
1,1-Dichloroethane	50	0	50.5	ug/L	101		4		78	122	20
Cyclohexane	50	0	35.1	ug/L	70	*	14		71	119	20
2-Butanone	250	0	270	ug/L	108		14		67	137	20
Carbon Tetrachloride	50	0	41.7	ug/L	83	*	1		84	115	20
cis-1,2-Dichloroethene	50	0	51.0	ug/L	102		2		82	124	20
Bromochloromethane	50	0	51.9	ug/L	104		3		72	130	20
Chloroform	50	0	53.3	ug/L	107		2		83	119	20
1,1,1-Trichloroethane	50	0	48.8	ug/L	98		1		83	117	20
Methylcyclohexane	50	0	27.9	ug/L	56	*	17		64	120	20
Benzene	50	0	43.8	ug/L	88		2		63	133	20
1,2-Dichloroethane	50	0	48.8	ug/L	98		1		76	120	20
Trichloroethene	50	0	43.2	ug/L	86		4		33	175	20
1,2-Dichloropropane	50	0	48.5	ug/L	97		3		85	116	20
Bromodichloromethane	50	0	52.6	ug/L	105		7		86	117	20
4-Methyl-2-Pentanone	250	0	270	ug/L	108		4		72	137	20
Toluene	50	0	46.3	ug/L	93		5		85	115	20
t-1,3-Dichloropropene	50	0	51.4	ug/L	103		11		78	117	20
cis-1,3-Dichloropropene	50	0	49.3	ug/L	99		8		77	115	20
1,1,2-Trichloroethane	50	0	52.0	ug/L	104		5		87	119	20
2-Hexanone	250	0	270	ug/L	108		7		75	131	20
Dibromochloromethane	50	0	56.3	ug/L	113		8		88	118	20
1,2-Dibromoethane	50	0	53.1	ug/L	106		5		85	119	20
Tetrachloroethene	50	0	35.9	ug/L	72		5		65	114	20
Chlorobenzene	50	0	43.9	ug/L	88		0		85	114	20
Ethyl Benzene	50	0	42.3	ug/L	85		1		62	134	20
m/p-Xylenes	100	0	84.2	ug/L	84		2		47	145	20
o-Xylene	50	0	44.1	ug/L	88		1		56	140	20
Styrene	50	0	45.3	ug/L	91		3		84	128	20
Bromoform	50	0	53.8	ug/L	108		0		83	121	20
Isopropylbenzene	50	0	43.1	ug/L	86		3		76	121	20
1,1,2,2-Tetrachloroethane	50	0	51.6	ug/L	103		9		66	145	20
1,3-Dichlorobenzene	50	0	44.9	ug/L	90		2		84	110	20
1,4-Dichlorobenzene	50	0	43.4	ug/L	87		3		81	111	20

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,2-Dichlorobenzene	50	0	45.1	ug/L	90		0		82	113	20
1,2-Dibromo-3-Chloropropane	50	0	56.1	ug/L	112		10		79	137	20
1,2,4-Trichlorobenzene	50	0	41.4	ug/L	83		13		73	120	20
1,2,3-Trichlorobenzene	50	0	41.2	ug/L	82		12		75	119	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low **Datafile :** VX035471.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0502WBS01	Dichlorodifluoromethane	20	18.3	ug/L	92			69	116	
	Chloromethane	20	16.2	ug/L	81			65	116	
	Vinyl chloride	20	16.8	ug/L	84			65	117	
	Bromomethane	20	15.9	ug/L	79			42	173	
	Chloroethane	20	16.5	ug/L	83			44	165	
	Trichlorofluoromethane	20	17.8	ug/L	89			73	115	
	1,1,2-Trichlorotrifluoroethane	20	18.4	ug/L	92			80	112	
	1,1-Dichloroethene	20	17.3	ug/L	86			74	110	
	Acetone	100	91.7	ug/L	92			60	125	
	Carbon disulfide	20	16.2	ug/L	81			64	112	
	Methyl tert-butyl Ether	20	19.2	ug/L	96			78	114	
	Methyl Acetate	20	18.4	ug/L	92			67	125	
	Methylene Chloride	20	17.0	ug/L	85			72	114	
	trans-1,2-Dichloroethene	20	17.5	ug/L	88			75	108	
	1,1-Dichloroethane	20	18.2	ug/L	91			78	112	
	Cyclohexane	20	17.0	ug/L	85			75	110	
	2-Butanone	100	88.2	ug/L	88			65	122	
	Carbon Tetrachloride	20	19.3	ug/L	97			77	113	
	cis-1,2-Dichloroethene	20	17.7	ug/L	89			77	110	
	Bromochloromethane	20	20.5	ug/L	103			70	124	
	Chloroform	20	18.9	ug/L	95			79	113	
	1,1,1-Trichloroethane	20	18.6	ug/L	93			80	108	
	Methylcyclohexane	20	18.2	ug/L	91			72	115	
	Benzene	20	18.3	ug/L	92			82	109	
	1,2-Dichloroethane	20	19.2	ug/L	96			80	115	
	Trichloroethene	20	18.7	ug/L	94			77	113	
	1,2-Dichloropropane	20	19.0	ug/L	95			83	111	
	Bromodichloromethane	20	19.9	ug/L	100			83	110	
	4-Methyl-2-Pentanone	100	94.9	ug/L	95			74	118	
	Toluene	20	18.6	ug/L	93			82	110	
	t-1,3-Dichloropropene	20	20.5	ug/L	103			79	110	
	cis-1,3-Dichloropropene	20	20.0	ug/L	100			82	110	
	1,1,2-Trichloroethane	20	19.4	ug/L	97			83	112	
	2-Hexanone	100	93.9	ug/L	94			73	117	
	Dibromochloromethane	20	20.8	ug/L	104			82	110	
	1,2-Dibromoethane	20	19.8	ug/L	99			81	110	
	Tetrachloroethene	20	19.1	ug/L	96			67	123	
	Chlorobenzene	20	18.8	ug/L	94			82	109	
	Ethyl Benzene	20	19.2	ug/L	96			83	109	
	m/p-Xylenes	40	38.9	ug/L	97			82	110	
	o-Xylene	20	19.4	ug/L	97			83	109	
	Styrene	20	19.7	ug/L	99			80	111	
	Bromoform	20	20.4	ug/L	102			79	109	
	Isopropylbenzene	20	20.0	ug/L	100			83	112	
	1,1,2,2-Tetrachloroethane	20	19.7	ug/L	99			76	118	
	1,3-Dichlorobenzene	20	19.6	ug/L	98			82	108	
	1,4-Dichlorobenzene	20	18.5	ug/L	93			82	107	
	1,2-Dichlorobenzene	20	19.1	ug/L	96			82	109	
	1,2-Dibromo-3-Chloropropane	20	19.7	ug/L	99			68	112	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: **O2521**

Client: **GEI Consultants, Inc., P.C.**

Analytical Method: **SW8260-Low** **Datafile :** VX035471.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0502WBS01	1,2,4-Trichlorobenzene	20	19.7	ug/L	99			74	114	
	1,2,3-Trichlorobenzene	20	19.7	ug/L	99			77	113	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0502WBL01

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

Lab File ID: VX035468.D Lab Sample ID: VX0502WBL01

Date Analyzed: 05/02/2023 Time Analyzed: 10:42

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0502WBS01	VX0502WBS01	VX035471.D	05/02/2023
FB	O2521-14	VX035475.D	05/02/2023
TB-2	O2521-13	VX035476.D	05/02/2023
GMW-1	O2521-01	VX035479.D	05/02/2023
PZ-15	O2521-03	VX035480.D	05/02/2023
GMW-10	O2521-05	VX035481.D	05/02/2023
GMW-7	O2521-07	VX035482.D	05/02/2023
GMW-7MS	O2521-09MS	VX035489.D	05/02/2023
GMW-7MSD	O2521-10MSD	VX035490.D	05/02/2023

COMMENTS:

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

Lab File ID: VX035269.D BFB Injection Date: 04/25/2023

Instrument ID: MSVOA_X BFB Injection Time: 08:57

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.5
75	30.0 - 60.0% of mass 95	49.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.5 (0.6) 1
174	50.0 - 100.0% of mass 95	75.5
175	5.0 - 9.0% of mass 174	5.9 (7.8) 1
176	95.0 - 101.0% of mass 174	75.2 (99.5) 1
177	5.0 - 9.0% of mass 176	5.1 (6.7) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX035272.D	04/25/2023	10:37
VSTDICC005	VSTDICC005	VX035273.D	04/25/2023	11:00
VSTDICC020	VSTDICC020	VX035274.D	04/25/2023	11:23
VSTDICCC050	VSTDICCC050	VX035275.D	04/25/2023	11:46
VSTDICC150	VSTDICC150	VX035277.D	04/25/2023	12:32
VSTDICC100	VSTDICC100	VX035279.D	04/25/2023	13:21

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

Lab File ID: VX035465.D BFB Injection Date: 05/02/2023

Instrument ID: MSVOA_X BFB Injection Time: 09:18

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.6
75	30.0 - 60.0% of mass 95	48.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.3 (0.4) 1
174	50.0 - 100.0% of mass 95	78.1
175	5.0 - 9.0% of mass 174	5.8 (7.4) 1
176	95.0 - 101.0% of mass 174	75.8 (97.1) 1
177	5.0 - 9.0% of mass 176	5.2 (6.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX035466.D	05/02/2023	09:51
VX0502WBL01	VX0502WBL01	VX035468.D	05/02/2023	10:42
VX0502WBS01	VX0502WBS01	VX035471.D	05/02/2023	12:06
FB	O2521-14	VX035475.D	05/02/2023	13:39
TB-2	O2521-13	VX035476.D	05/02/2023	14:02
GMW-1	O2521-01	VX035479.D	05/02/2023	15:12
PZ-15	O2521-03	VX035480.D	05/02/2023	15:35
GMW-10	O2521-05	VX035481.D	05/02/2023	15:58
GMW-7	O2521-07	VX035482.D	05/02/2023	16:22
GMW-7MS	O2521-09MS	VX035489.D	05/02/2023	19:05
GMW-7MSD	O2521-10MSD	VX035490.D	05/02/2023	19:28

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

Lab File ID: VX035466.D Date Analyzed: 05/02/2023

Instrument ID: MSVOA_X Time Analyzed: 09:51

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	266388	5.55	413827	6.76	352802	10.06
UPPER LIMIT	532776	6.05	827654	7.257	705604	10.555
LOWER LIMIT	133194	5.05	206914	6.257	176401	9.555
EPA SAMPLE NO.						
GMW-1	219899	5.55	353240	6.76	315578	10.06
PZ-15	234153	5.56	376409	6.76	347920	10.06
GMW-10	239956	5.56	398040	6.76	365850	10.06
GMW-7	226018	5.55	369917	6.76	336556	10.06
GMW-7MS	158417	5.55	275723	6.76	245530	10.06
GMW-7MSD	183547	5.56	326028	6.76	309770	10.06
TB-2	244671	5.56	397795	6.76	349827	10.06
FB	229556	5.55	377193	6.76	347606	10.06
VX0502WBL01	262892	5.55	425885	6.76	388967	10.06
VX0502WBS01	252421	5.56	389892	6.76	341434	10.06

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

Lab File ID: VX035466.D Date Analyzed: 05/02/2023

Instrument ID: MSVOA_X Time Analyzed: 09:51

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	175791	12.018				
UPPER LIMIT	351582	12.518				
LOWER LIMIT	87895.5	11.518				
EPA SAMPLE NO.						
GMW-1	144473	12.02				
PZ-15	171803	12.02				
GMW-10	172382	12.02				
GMW-7	158095	12.02				
GMW-7MS	112617	12.02				
GMW-7MSD	147703	12.02				
TB-2	159751	12.02				
FB	167849	12.02				
VX0502WBL01	180000	12.02				
VX0502WBS01	169110	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0502WBL01	SDG No.:	O2521
Lab Sample ID:	VX0502WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035468.D	1		05/02/23 10:42	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	5.00	U	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0502WBL01	SDG No.:	O2521
Lab Sample ID:	VX0502WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035468.D	1		05/02/23 10:42	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.1		74 - 125	94%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	50.6		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		64 - 133	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	263000	5.55			
540-36-3	1,4-Difluorobenzene	426000	6.763			
3114-55-4	Chlorobenzene-d5	389000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	180000	12.024			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0502WBL01	SDG No.:	O2521
Lab Sample ID:	VX0502WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035468.D	1		05/02/23 10:42	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0502WBS01	SDG No.:	O2521
Lab Sample ID:	VX0502WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035471.D	1		05/02/23 12:06	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.3		0.14	1.00	ug/L
74-87-3	Chloromethane	16.2		0.25	1.00	ug/L
75-01-4	Vinyl Chloride	16.8		0.25	1.00	ug/L
74-83-9	Bromomethane	15.9		1.60	5.00	ug/L
75-00-3	Chloroethane	16.5		0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	17.8		0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.4		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.3		0.21	1.00	ug/L
67-64-1	Acetone	91.7		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	16.2		0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.2		0.14	1.00	ug/L
79-20-9	Methyl Acetate	18.4		0.36	1.00	ug/L
75-09-2	Methylene Chloride	17.0		0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.5		0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.2		0.16	1.00	ug/L
110-82-7	Cyclohexane	17.0		1.60	5.00	ug/L
78-93-3	2-Butanone	88.2		1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.3		0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.7		0.20	1.00	ug/L
74-97-5	Bromochloromethane	20.5		0.14	1.00	ug/L
67-66-3	Chloroform	18.9		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.6		0.14	1.00	ug/L
108-87-2	Methylcyclohexane	18.2		0.16	1.00	ug/L
71-43-2	Benzene	18.3		0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.2		0.16	1.00	ug/L
79-01-6	Trichloroethene	18.7		0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.0		0.15	1.00	ug/L
75-27-4	Bromodichloromethane	19.9		0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	94.9		0.74	5.00	ug/L
108-88-3	Toluene	18.6		0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	20.5		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.0		0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0502WBS01	SDG No.:	O2521
Lab Sample ID:	VX0502WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035471.D	1		05/02/23 12:06	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	19.4		0.13	1.00	ug/L
591-78-6	2-Hexanone	93.9		0.98	5.00	ug/L
124-48-1	Dibromochloromethane	20.8		0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.8		0.13	1.00	ug/L
127-18-4	Tetrachloroethene	19.1		0.17	1.00	ug/L
108-90-7	Chlorobenzene	18.8		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	19.2		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	38.9		0.31	2.00	ug/L
95-47-6	o-Xylene	19.4		0.15	1.00	ug/L
100-42-5	Styrene	19.7		0.13	1.00	ug/L
75-25-2	Bromoform	20.4		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	20.0		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.7		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.6		0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.5		0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.1		0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.7		0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.7		0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.7		0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.7		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		75 - 124	104%	SPK: 50
2037-26-5	Toluene-d8	50.6		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.4		64 - 133	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	252000	5.556			
540-36-3	1,4-Difluorobenzene	390000	6.757			
3114-55-4	Chlorobenzene-d5	341000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	169000	12.024			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0502WBS01	SDG No.:	O2521
Lab Sample ID:	VX0502WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035471.D	1		05/02/23 12:06	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MS	SDG No.:	O2521
Lab Sample ID:	O2521-09MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035489.D	1		05/02/23 19:05	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	41.4		0.14	1.00	ug/L
74-87-3	Chloromethane	40.3		0.25	1.00	ug/L
75-01-4	Vinyl Chloride	41.7		0.25	1.00	ug/L
74-83-9	Bromomethane	34.2		1.60	5.00	ug/L
75-00-3	Chloroethane	44.0		0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	42.9		0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	38.7		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	41.9		0.21	1.00	ug/L
67-64-1	Acetone	270		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	38.1		0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	53.6		0.14	1.00	ug/L
79-20-9	Methyl Acetate	54.0		0.36	1.00	ug/L
75-09-2	Methylene Chloride	44.4		0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	44.4		0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	48.3		0.16	1.00	ug/L
110-82-7	Cyclohexane	40.3		1.60	5.00	ug/L
78-93-3	2-Butanone	310		1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	42.2		0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	50.2		0.20	1.00	ug/L
74-97-5	Bromochloromethane	50.6		0.14	1.00	ug/L
67-66-3	Chloroform	52.4		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	48.1		0.14	1.00	ug/L
108-87-2	Methylcyclohexane	33.0		0.16	1.00	ug/L
71-43-2	Benzene	44.6		0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	48.3		0.16	1.00	ug/L
79-01-6	Trichloroethene	41.7		0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	47.0		0.15	1.00	ug/L
75-27-4	Bromodichloromethane	48.8		0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	280		0.74	5.00	ug/L
108-88-3	Toluene	44.2		0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	46.2		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	45.4		0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MS	SDG No.:	O2521
Lab Sample ID:	O2521-09MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035489.D	1		05/02/23 19:05	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	49.3		0.13	1.00	ug/L
591-78-6	2-Hexanone	290		0.98	5.00	ug/L
124-48-1	Dibromochloromethane	52.0		0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	50.6		0.13	1.00	ug/L
127-18-4	Tetrachloroethene	37.8		0.17	1.00	ug/L
108-90-7	Chlorobenzene	43.8		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	42.0		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	82.9		0.31	2.00	ug/L
95-47-6	o-Xylene	43.6		0.15	1.00	ug/L
100-42-5	Styrene	43.8		0.13	1.00	ug/L
75-25-2	Bromoform	53.6		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	44.3		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	56.7		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	44.0		0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	42.0		0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	45.0		0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	61.8		0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	36.5		0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	36.7		0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.6		74 - 125	103%	SPK: 50
1868-53-7	Dibromofluoromethane	46.0		75 - 124	92%	SPK: 50
2037-26-5	Toluene-d8	43.6		86 - 113	87%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.0		64 - 133	86%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	158000	5.55			
540-36-3	1,4-Difluorobenzene	276000	6.763			
3114-55-4	Chlorobenzene-d5	246000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	113000	12.024			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MS	SDG No.:	O2521
Lab Sample ID:	O2521-09MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035489.D	1		05/02/23 19:05	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MSD	SDG No.:	O2521
Lab Sample ID:	O2521-10MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035490.D	1		05/02/23 19:28	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	36.3		0.14	1.00	ug/L
74-87-3	Chloromethane	43.4		0.25	1.00	ug/L
75-01-4	Vinyl Chloride	42.1		0.25	1.00	ug/L
74-83-9	Bromomethane	39.1		1.60	5.00	ug/L
75-00-3	Chloroethane	42.3		0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	41.1		0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	34.6		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	42.4		0.21	1.00	ug/L
67-64-1	Acetone	260		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	41.3		0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	57.3		0.14	1.00	ug/L
79-20-9	Methyl Acetate	51.3		0.36	1.00	ug/L
75-09-2	Methylene Chloride	48.1		0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	46.3		0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	50.5		0.16	1.00	ug/L
110-82-7	Cyclohexane	35.1		1.60	5.00	ug/L
78-93-3	2-Butanone	270		1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	41.7		0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	51.0		0.20	1.00	ug/L
74-97-5	Bromochloromethane	51.9		0.14	1.00	ug/L
67-66-3	Chloroform	53.3		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	48.8		0.14	1.00	ug/L
108-87-2	Methylcyclohexane	27.9		0.16	1.00	ug/L
71-43-2	Benzene	43.8		0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	48.8		0.16	1.00	ug/L
79-01-6	Trichloroethene	43.2		0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	48.5		0.15	1.00	ug/L
75-27-4	Bromodichloromethane	52.6		0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	270		0.74	5.00	ug/L
108-88-3	Toluene	46.3		0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	51.4		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	49.3		0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MSD	SDG No.:	O2521
Lab Sample ID:	O2521-10MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035490.D	1		05/02/23 19:28	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	52.0		0.13	1.00	ug/L
591-78-6	2-Hexanone	270		0.98	5.00	ug/L
124-48-1	Dibromochloromethane	56.3		0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	53.1		0.13	1.00	ug/L
127-18-4	Tetrachloroethene	35.9		0.17	1.00	ug/L
108-90-7	Chlorobenzene	43.9		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	42.3		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	84.2		0.31	2.00	ug/L
95-47-6	o-Xylene	44.1		0.15	1.00	ug/L
100-42-5	Styrene	45.3		0.13	1.00	ug/L
75-25-2	Bromoform	53.8		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	43.1		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	51.6		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	44.9		0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	43.4		0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	45.1		0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	56.1		0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	41.4		0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	41.2		0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	62.4		74 - 125	125%	SPK: 50
1868-53-7	Dibromofluoromethane	56.0		75 - 124	112%	SPK: 50
2037-26-5	Toluene-d8	53.0		86 - 113	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.0		64 - 133	110%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	184000	5.556			
540-36-3	1,4-Difluorobenzene	326000	6.757			
3114-55-4	Chlorobenzene-d5	310000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	148000	12.024			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MSD	SDG No.:	O2521
Lab Sample ID:	O2521-10MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035490.D	1		05/02/23 19:28	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: MSVOA_X Calibration Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Calibration Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX035272.D RRF005 = VX035273.D RRF020 = VX035274.D
RRF050 = VX035275.D RRF150 = VX035277.D RRF100 = VX035279.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF150	RRF100	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.488	0.488	0.515	0.550	0.543	0.589	0.529	7.5
Chloromethane	0.521	0.467	0.445	0.473	0.484	0.498	0.481	5.4
Vinyl Chloride	0.485	0.479	0.449	0.478	0.488	0.518	0.483	4.6
Bromomethane		0.316	0.307	0.317	0.328	0.336	0.321	3.5
Chloroethane	0.332	0.268	0.264	0.277	0.268	0.285	0.282	9
Trichlorofluoromethane	0.848	0.740	0.719	0.732	0.713	0.778	0.755	6.8
1,1,2-Trichlorotrifluoroethane	0.562	0.496	0.459	0.493	0.483	0.532	0.504	7.3
1,1-Dichloroethene	0.545	0.475	0.444	0.471	0.475	0.504	0.486	7.2
Acetone	0.310	0.255	0.247	0.253	0.237	0.270	0.262	9.9
Carbon Disulfide	1.168	1.018	1.053	1.182	1.259	1.304	1.164	9.6
Methyl tert-butyl Ether	1.731	1.674	1.558	1.657	1.649	1.727	1.666	3.8
Methyl Acetate	1.071	0.953	0.968	1.022	1.018	1.048	1.013	4.5
Methylene Chloride	0.840	0.588	0.536	0.539	0.536	0.565	0.601	19.8
trans-1,2-Dichloroethene	0.567	0.535	0.488	0.514	0.515	0.546	0.527	5.2
1,1-Dichloroethane	0.982	0.949	0.895	0.949	0.944	0.997	0.953	3.7
Cyclohexane		0.842	0.832	0.855	0.841	0.909	0.856	3.6
2-Butanone	0.395	0.386	0.365	0.382	0.373	0.394	0.382	3.1
Carbon Tetrachloride	0.427	0.412	0.429	0.466	0.485	0.511	0.455	8.5
cis-1,2-Dichloroethene	0.713	0.600	0.569	0.598	0.606	0.634	0.620	8.1
Bromochloromethane	0.364	0.421	0.404	0.415	0.417	0.414	0.406	5.2
Chloroform	0.969	0.967	0.924	0.960	0.950	0.999	0.962	2.6
1,1,1-Trichloroethane	0.848	0.797	0.778	0.851	0.874	0.908	0.843	5.7
Methylcyclohexane	0.593	0.561	0.550	0.580	0.579	0.637	0.583	5.2
Benzene	1.473	1.386	1.313	1.345	1.325	1.406	1.375	4.3
1,2-Dichloroethane	0.514	0.498	0.464	0.482	0.479	0.504	0.490	3.8
Trichloroethene	0.391	0.383	0.358	0.372	0.372	0.395	0.379	3.6
1,2-Dichloropropane	0.366	0.335	0.325	0.344	0.344	0.364	0.347	4.7
Bromodichloromethane	0.404	0.406	0.406	0.455	0.470	0.490	0.438	8.7
4-Methyl-2-Pentanone	0.465	0.459	0.439	0.454	0.434	0.461	0.452	2.8
Toluene	0.911	0.880	0.829	0.864	0.845	0.899	0.871	3.6
t-1,3-Dichloropropene	0.351	0.368	0.434	0.496	0.539	0.559	0.458	19.1
cis-1,3-Dichloropropene	0.419	0.459	0.496	0.553	0.577	0.603	0.518	13.8
1,1,2-Trichloroethane	0.382	0.344	0.326	0.343	0.336	0.352	0.347	5.6

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: MSVOA_X Calibration Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Calibration Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX035272.D RRF005 = VX035273.D RRF020 = VX035274.D
RRF050 = VX035275.D RRF150 = VX035277.D RRF100 = VX035279.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF150	RRF100	$\overline{RRF}$	% RSD
2-Hexanone	0.339	0.342	0.332	0.347	0.322	0.354	0.339	3.3
Dibromochloromethane	0.271	0.290	0.315	0.355	0.375	0.390	0.333	14.4
1,2-Dibromoethane	0.355	0.347	0.345	0.362	0.361	0.379	0.358	3.4
Tetrachloroethene	0.447	0.394	0.356	0.363	0.351	0.386	0.383	9.4
Chlorobenzene	1.214	1.127	0.997	1.030	1.022	1.101	1.082	7.6
Ethyl Benzene	1.993	1.874	1.739	1.854	1.811	1.969	1.873	5.1
m/p-Xylenes	0.731	0.731	0.679	0.710	0.697	0.760	0.718	4
o-Xylene	0.705	0.717	0.669	0.697	0.690	0.745	0.704	3.7
Styrene	1.078	1.132	1.088	1.154	1.147	1.248	1.141	5.3
Bromoform	0.213	0.219	0.234	0.279	0.306	0.321	0.262	17.7
Isopropylbenzene	3.616	3.740	3.546	3.603	3.607	3.818	3.655	2.8
1,1,2,2-Tetrachloroethane	1.225	1.172	1.082	1.102	1.085	1.142	1.134	5
1,3-Dichlorobenzene	1.794	1.735	1.619	1.675	1.721	1.816	1.727	4.3
1,4-Dichlorobenzene	2.166	1.837	1.637	1.681	1.706	1.834	1.810	10.6
1,2-Dichlorobenzene	2.007	1.786	1.599	1.632	1.600	1.738	1.727	9.1
1,2-Dibromo-3-Chloropropane	0.202	0.192	0.214	0.238	0.261	0.258	0.227	12.8
1,2,4-Trichlorobenzene	1.123	0.998	1.002	1.058	1.132	1.201	1.085	7.4
1,2,3-Trichlorobenzene	1.181	1.071	1.004	1.046	1.098	1.156	1.093	6.1
1,2-Dichloroethane-d4		0.633	0.613	0.597	0.573	0.600	0.603	3.7
Dibromofluoromethane		0.302	0.309	0.308	0.297	0.318	0.307	2.6
Toluene-d8		1.179	1.191	1.167	1.087	1.165	1.158	3.5
4-Bromofluorobenzene		0.428	0.442	0.436	0.421	0.450	0.435	2.6

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: MSVOA_X Calibration Date/Time: 05/02/2023 09:51

Lab File ID: VX035466.D Init. Calib. Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.529	0.525		-0.76	20
Chloromethane	0.481	0.419	0.1	-12.89	20
Vinyl Chloride	0.483	0.445		-7.87	20
Bromomethane	0.321	0.256		-20.25	20
Chloroethane	0.282	0.240		-14.89	20
Trichlorofluoromethane	0.755	0.726		-3.84	20
1,1,2-Trichlorotrifluoroethane	0.504	0.492		-2.38	20
1,1-Dichloroethene	0.486	0.454		-6.58	20
Acetone	0.262	0.253		-3.43	20
Carbon Disulfide	1.164	1.049		-9.88	20
Methyl tert-butyl Ether	1.666	1.634		-1.92	20
Methyl Acetate	1.013	0.936		-7.6	20
Methylene Chloride	0.601	0.517		-13.98	20
trans-1,2-Dichloroethene	0.527	0.493		-6.45	20
1,1-Dichloroethane	0.953	0.912	0.1	-4.3	20
Cyclohexane	0.856	0.812		-5.14	20
2-Butanone	0.382	0.354		-7.33	20
Carbon Tetrachloride	0.455	0.488		7.25	20
cis-1,2-Dichloroethene	0.620	0.602		-2.9	20
Bromochloromethane	0.406	0.375		-7.64	20
Chloroform	0.962	0.978		1.66	20
1,1,1-Trichloroethane	0.843	0.865		2.61	20
Methylcyclohexane	0.583	0.568		-2.57	20
Benzene	1.375	1.351		-1.75	20
1,2-Dichloroethane	0.490	0.487		-0.61	20
Trichloroethene	0.379	0.387		2.11	20
1,2-Dichloropropane	0.347	0.352		1.44	20
Bromodichloromethane	0.438	0.471		7.53	20
4-Methyl-2-Pentanone	0.452	0.435		-3.76	20
Toluene	0.871	0.852		-2.18	20
t-1,3-Dichloropropene	0.458	0.507		10.7	20
cis-1,3-Dichloropropene	0.518	0.580		11.97	20
1,1,2-Trichloroethane	0.347	0.342		-1.44	20
2-Hexanone	0.339	0.318		-6.2	20
Dibromochloromethane	0.333	0.369		10.81	20
1,2-Dibromoethane	0.358	0.359		0.28	20
Tetrachloroethene	0.383	0.375		-2.09	20
Chlorobenzene	1.082	1.079	0.3	-0.28	20
Ethyl Benzene	1.873	1.907		1.82	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: MSVOA_X Calibration Date/Time: 05/02/2023 09:51

Lab File ID: VX035466.D Init. Calib. Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.718	0.728		1.39	20
o-Xylene	0.704	0.723		2.7	20
Styrene	1.141	1.203		5.43	20
Bromoform	0.262	0.304	0.1	16.03	20
Isopropylbenzene	3.655	3.799		3.94	20
1,1,2,2-Tetrachloroethane	1.134	1.130	0.3	-0.35	20
1,3-Dichlorobenzene	1.727	1.785		3.36	20
1,4-Dichlorobenzene	1.810	1.786		-1.33	20
1,2-Dichlorobenzene	1.727	1.741		0.81	20
1,2-Dibromo-3-Chloropropane	0.227	0.250		10.13	20
1,2,4-Trichlorobenzene	1.085	1.170		7.83	20
1,2,3-Trichlorobenzene	1.093	1.127		3.11	20
1,2-Dichloroethane-d4	0.603	0.559		-7.3	20
Dibromofluoromethane	0.307	0.303		-1.3	20
Toluene-d8	1.158	1.114		-3.8	20
4-Bromofluorobenzene	0.435	0.415		-4.6	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey - 07092
Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	O2521	**OrderDate:**	4/27/2023 8:52:00 AM
Client:	GEI Consultants, Inc., P.C.	**Project:**	Ferry Point
Contact:	Stacey Ng	**Location:**	M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O2521-01	**GMW-1**	**Water**			**04/26/23**			**04/26/23**
			SVOC-TCL BNA -20	8270E		04/27/23	05/02/23	
O2521-03	**PZ-15**	**Water**			**04/26/23**			**04/26/23**
			SVOC-TCL BNA -20	8270E		04/27/23	05/02/23	
O2521-05	**GMW-10**	**Water**			**04/26/23**			**04/26/23**
			SVOC-TCL BNA -20	8270E		04/27/23	05/02/23	
O2521-07	**GMW-7**	**Water**			**04/26/23**			**04/26/23**
			SVOC-TCL BNA -20	8270E		04/27/23	05/01/23	
O2521-14	**FB**	**Water**			**04/26/23**			**04/26/23**
			SVOC-TCL BNA -20	8270E		04/27/23	05/01/23	

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Hit Summary Sheet
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Sample ID	Client ID		Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**GMW-1**								
O2521-01	GMW-1	WATER	1-Hexadecanol	*	8.000	J	0	0	ug/L
O2521-01	GMW-1	WATER	Benzophenone	*	3.100	J	0	0	ug/L
O2521-01	GMW-1	WATER	Heneicosane	*	7.100	J	0	0	ug/L
O2521-01	GMW-1	WATER	Heptadecane	*	3.700	J	0	0	ug/L
O2521-01	GMW-1	WATER	n-Hexadecanoic acid	*	18.600	J	0	0	ug/L
O2521-01	GMW-1	WATER	Octadecanoic acid	*	18.600	J	0	0	ug/L
O2521-01	GMW-1	WATER	Pentacosane	*	4.800	J	0	0	ug/L
O2521-01	GMW-1	WATER	Supraene	*	3.900	J	0	0	ug/L
O2521-01	GMW-1	WATER	Tetracosane	*	6.700	J	0	0	ug/L
O2521-01	GMW-1	WATER	unknown13.168	*	7.800	J	0	0	ug/L
			Total Tics :			**82.30**			
			Total Concentration:			**82.30**			
Client ID :	**PZ-15**								
O2521-03	PZ-15	WATER	1-Nonadecene	*	7.200	J	0	0	ug/L
O2521-03	PZ-15	WATER	2(3H)-Benzothiazolone	*	2.700	J	0	0	ug/L
O2521-03	PZ-15	WATER	Benzene, 1,1-(1,5-hexadiene-1,6-c	*	2.700	J	0	0	ug/L
O2521-03	PZ-15	WATER	Benzene, 1,2,3,4-tetramethyl-	*	2.300	J	0	0	ug/L
O2521-03	PZ-15	WATER	Benzenesulfonamide, N-ethyl-4-m	*	3.000	J	0	0	ug/L
O2521-03	PZ-15	WATER	Benzophenone	*	3.900	J	0	0	ug/L
O2521-03	PZ-15	WATER	Ethanone, 1-(1,4-dimethyl-3-cycl	*	7.000	J	0	0	ug/L
O2521-03	PZ-15	WATER	n-Hexadecanoic acid	*	9.900	J	0	0	ug/L
O2521-03	PZ-15	WATER	Octadecanoic acid	*	3.800	J	0	0	ug/L
O2521-03	PZ-15	WATER	Phenol, p-tert-butyl-	*	2.700	J	0	0	ug/L
O2521-03	PZ-15	WATER	Supraene	*	5.000	J	0	0	ug/L
			Total Tics :			**50.20**			
			Total Concentration:			**50.20**			
Client ID :	**GMW-10**								
O2521-05	GMW-10	WATER	Benzophenone	*	10.000	J	0	0	ug/L
O2521-05	GMW-10	WATER	Cyclopentadecane	*	10.700	J	0	0	ug/L
O2521-05	GMW-10	WATER	Heneicosane	*	2.100	J	0	0	ug/L
O2521-05	GMW-10	WATER	n-Hexadecanoic acid	*	21.300	J	0	0	ug/L
O2521-05	GMW-10	WATER	Octadecanoic acid	*	17.000	J	0	0	ug/L
O2521-05	GMW-10	WATER	Supraene	*	2.400	J	0	0	ug/L
			Total Tics :			**63.50**			
			Total Concentration:			**63.50**			
Client ID :	**GMW-7**								
O2521-07	GMW-7	WATER	Benzophenone	*	3.100	J	0	0	ug/L
O2521-07	GMW-7	WATER	n-Hexadecanoic acid	*	7.900	J	0	0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Sample ID	Client ID		Parameter	Concentration		C	MDL	RDL	Units
O2521-07	GMW-7	WATER	Octadecanoic acid	*	12.200	J	0	0	ug/L
			Total Tics :		**23.20**				
			Total Concentration:		**23.20**				

SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1	SDG No.:	O2521
Lab Sample ID:	O2521-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133182.D	1	04/27/23 10:50	05/02/23 11:39	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1	SDG No.:	O2521
Lab Sample ID:	O2521-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133182.D	1	04/27/23 10:50	05/02/23 11:39	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1	SDG No.:	O2521
Lab Sample ID:	O2521-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133182.D	1	04/27/23 10:50	05/02/23 11:39	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	67.0		10 - 139	45%	SPK: 150
13127-88-3	Phenol-d6	40.9		10 - 134	27%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.9		49 - 133	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.4		52 - 132	85%	SPK: 100
118-79-6	2,4,6-Tribromophenol	129		45 - 141	86%	SPK: 150
1718-51-0	Terphenyl-d14	90.3		45 - 142	90%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	218000	6.728			
1146-65-2	Naphthalene-d8	868000	8.016			
15067-26-2	Acenaphthene-d10	448000	9.769			
1517-22-2	Phenanthrene-d10	782000	11.251			
1719-03-5	Chrysene-d12	465000	13.886			
1520-96-3	Perylene-d12	390000	15.304			
TENTATIVE IDENTIFIED COMPOUNDS						
000119-61-9	Benzophenone	3.10	J		10.5	ug/L
000057-10-3	n-Hexadecanoic acid	18.6	J		11.8	ug/L
000057-11-4	Octadecanoic acid	18.6	J		12.6	ug/L
	unknown13.168	7.80	J		13.2	ug/L
036653-82-4	1-Hexadecanol	8.00	J		13.8	ug/L
000629-99-2	Pentacosane	4.80	J		14.7	ug/L
007683-64-9	Supraene	3.90	J		14.7	ug/L
000629-94-7	Heneicosane	7.10	J		15.0	ug/L
000646-31-1	Tetracosane	6.70	J		15.8	ug/L
000629-78-7	Heptadecane	3.70	J		16.2	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1	SDG No.:	O2521
Lab Sample ID:	O2521-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133182.D	1	04/27/23 10:50	05/02/23 11:39	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15	SDG No.:	O2521
Lab Sample ID:	O2521-03	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133184.D	1	04/27/23 10:50	05/02/23 12:42	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15	SDG No.:	O2521
Lab Sample ID:	O2521-03	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133184.D	1	04/27/23 10:50	05/02/23 12:42	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15	SDG No.:	O2521
Lab Sample ID:	O2521-03	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133184.D	1	04/27/23 10:50	05/02/23 12:42	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	57.6		10 - 139	38%	SPK: 150
13127-88-3	Phenol-d6	36.2		10 - 134	24%	SPK: 150
4165-60-0	Nitrobenzene-d5	76.0		49 - 133	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	77.6		52 - 132	78%	SPK: 100
118-79-6	2,4,6-Tribromophenol	124		45 - 141	83%	SPK: 150
1718-51-0	Terphenyl-d14	77.1		45 - 142	77%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	203000	6.728			
1146-65-2	Naphthalene-d8	828000	8.01			
15067-26-2	Acenaphthene-d10	431000	9.763			
1517-22-2	Phenanthrene-d10	776000	11.245			
1719-03-5	Chrysene-d12	487000	13.88			
1520-96-3	Perylene-d12	372000	15.304			
TENTATIVE IDENTIFIED COMPOUNDS						
004439-45-6	Benzene, 1,1-(1,5-hexadiene-1,6-d	2.70	J		6.91	ug/L
043219-68-7	Ethanone, 1-(1,4-dimethyl-3-cycloh	7.00	J		7.45	ug/L
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	2.30	J		7.76	ug/L
000098-54-4	Phenol, p-tert-butyl-	2.70	J		8.59	ug/L
000119-61-9	Benzophenone	3.90	J		10.5	ug/L
000934-34-9	2(3H)-Benzothiazolone	2.70	J		10.7	ug/L
000080-39-7	Benzenesulfonamide, N-ethyl-4-meth	3.00	J		10.8	ug/L
000057-10-3	n-Hexadecanoic acid	9.90	J		11.8	ug/L
000057-11-4	Octadecanoic acid	3.80	J		12.6	ug/L
018435-45-5	1-Nonadecene	7.20	J		13.8	ug/L
007683-64-9	Supraene	5.00	J		14.7	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15	SDG No.:	O2521
Lab Sample ID:	O2521-03	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133184.D	1	04/27/23 10:50	05/02/23 12:42	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10	SDG No.:	O2521
Lab Sample ID:	O2521-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133183.D	1	04/27/23 10:50	05/02/23 12:11	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10	SDG No.:	O2521
Lab Sample ID:	O2521-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133183.D	1	04/27/23 10:50	05/02/23 12:11	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10	SDG No.:	O2521
Lab Sample ID:	O2521-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133183.D	1	04/27/23 10:50	05/02/23 12:11	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	54.4		10 - 139	36%	SPK: 150
13127-88-3	Phenol-d6	33.7		10 - 134	22%	SPK: 150
4165-60-0	Nitrobenzene-d5	74.9		49 - 133	75%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.2		52 - 132	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	113		45 - 141	75%	SPK: 150
1718-51-0	Terphenyl-d14	76.0		45 - 142	76%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	222000	6.728			
1146-65-2	Naphthalene-d8	884000	8.016			
15067-26-2	Acenaphthene-d10	465000	9.769			
1517-22-2	Phenanthrene-d10	807000	11.251			
1719-03-5	Chrysene-d12	532000	13.88			
1520-96-3	Perylene-d12	408000	15.304			
TENTATIVE IDENTIFIED COMPOUNDS						
000119-61-9	Benzophenone	10.0	J		10.5	ug/L
000057-10-3	n-Hexadecanoic acid	21.3	J		11.8	ug/L
000057-11-4	Octadecanoic acid	17.0	J		12.6	ug/L
000295-48-7	Cyclopentadecane	10.7	J		13.8	ug/L
007683-64-9	Supraene	2.40	J		14.7	ug/L
000629-94-7	Heneicosane	2.10	J		15.8	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10	SDG No.:	O2521
Lab Sample ID:	O2521-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133183.D	1	04/27/23 10:50	05/02/23 12:11	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7	SDG No.:	O2521
Lab Sample ID:	O2521-07	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133151.D	1	04/27/23 10:50	05/01/23 12:47	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7	SDG No.:	O2521
Lab Sample ID:	O2521-07	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133151.D	1	04/27/23 10:50	05/01/23 12:47	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7	SDG No.:	O2521
Lab Sample ID:	O2521-07	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133151.D	1	04/27/23 10:50	05/01/23 12:47	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	68.0		10 - 139	45%	SPK: 150
13127-88-3	Phenol-d6	41.6		10 - 134	28%	SPK: 150
4165-60-0	Nitrobenzene-d5	89.3		49 - 133	89%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.8		52 - 132	88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	129		45 - 141	86%	SPK: 150
1718-51-0	Terphenyl-d14	101		45 - 142	101%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	187000	6.728			
1146-65-2	Naphthalene-d8	760000	8.016			
15067-26-2	Acenaphthene-d10	403000	9.763			
1517-22-2	Phenanthrene-d10	716000	11.245			
1719-03-5	Chrysene-d12	392000	13.88			
1520-96-3	Perylene-d12	352000	15.304			
TENTATIVE IDENTIFIED COMPOUNDS						
000119-61-9	Benzophenone	3.10	J		10.5	ug/L
000057-10-3	n-Hexadecanoic acid	7.90	J		11.8	ug/L
000057-11-4	Octadecanoic acid	12.2	J		12.6	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	FB	SDG No.:	O2521
Lab Sample ID:	O2521-14	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133161.D	1	04/27/23 10:50	05/01/23 18:06	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	FB	SDG No.:	O2521
Lab Sample ID:	O2521-14	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133161.D	1	04/27/23 10:50	05/01/23 18:06	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	FB	SDG No.:	O2521
Lab Sample ID:	O2521-14	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133161.D	1	04/27/23 10:50	05/01/23 18:06	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	64.3		10 - 139	43%	SPK: 150
13127-88-3	Phenol-d6	39.2		10 - 134	26%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.2		49 - 133	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.0		52 - 132	90%	SPK: 100
118-79-6	2,4,6-Tribromophenol	132		45 - 141	88%	SPK: 150
1718-51-0	Terphenyl-d14	113		45 - 142	113%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	182000	6.728			
1146-65-2	Naphthalene-d8	745000	8.01			
15067-26-2	Acenaphthene-d10	394000	9.763			
1517-22-2	Phenanthrene-d10	715000	11.245			
1719-03-5	Chrysene-d12	387000	13.88			
1520-96-3	Perylene-d12	370000	15.298			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Surrogate Summary

SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
O2521-01	GMW-1	2-Fluorophenol	150	67.0	45		10	139
		Phenol-d6	150	40.9	27		10	134
		Nitrobenzene-d5	100	86.9	87		49	133
		2-Fluorobiphenyl	100	85.4	85		52	132
		2,4,6-Tribromophenol	150	129	86		45	141
		Terphenyl-d14	100	90.3	90		45	142
O2521-03	PZ-15	2-Fluorophenol	150	57.6	38		10	139
		Phenol-d6	150	36.2	24		10	134
		Nitrobenzene-d5	100	76.0	76		49	133
		2-Fluorobiphenyl	100	77.6	78		52	132
		2,4,6-Tribromophenol	150	124	83		45	141
		Terphenyl-d14	100	77.1	77		45	142
O2521-05	GMW-10	2-Fluorophenol	150	54.4	36		10	139
		Phenol-d6	150	33.7	22		10	134
		Nitrobenzene-d5	100	74.9	75		49	133
		2-Fluorobiphenyl	100	75.2	75		52	132
		2,4,6-Tribromophenol	150	113	75		45	141
		Terphenyl-d14	100	76.0	76		45	142
O2521-07	GMW-7	2-Fluorophenol	150	68.0	45		10	139
		Phenol-d6	150	41.6	28		10	134
		Nitrobenzene-d5	100	89.3	89		49	133
		2-Fluorobiphenyl	100	87.8	88		52	132
		2,4,6-Tribromophenol	150	129	86		45	141
		Terphenyl-d14	100	101	101		45	142
O2521-09MS	GMW-7MS	2-Fluorophenol	150	51.8	35		10	139
		Phenol-d6	150	33.1	22		10	134
		Nitrobenzene-d5	100	70.2	70		49	133
		2-Fluorobiphenyl	100	74.1	74		52	132
		2,4,6-Tribromophenol	150	108	72		45	141
		Terphenyl-d14	100	93.7	94		45	142
O2521-10MSD	GMW-7MSD	2-Fluorophenol	150	49.7	33		10	139
		Phenol-d6	150	31.9	21		10	134
		Nitrobenzene-d5	100	70.1	70		49	133
		2-Fluorobiphenyl	100	74.2	74		52	132
		2,4,6-Tribromophenol	150	110	74		45	141
		Terphenyl-d14	100	92.5	92		45	142
O2521-14	FB	2-Fluorophenol	150	64.3	43		10	139
		Phenol-d6	150	39.2	26		10	134
		Nitrobenzene-d5	100	92.2	92		49	133
		2-Fluorobiphenyl	100	90.0	90		52	132
		2,4,6-Tribromophenol	150	132	88		45	141
		Terphenyl-d14	100	113	113		45	142
PB152460BL	PB152460BL	2-Fluorophenol	150	116	77		10	139
		Phenol-d6	150	117	78		10	134
		Nitrobenzene-d5	100	73.6	74		49	133
		2-Fluorobiphenyl	100	74.7	75		52	132
		2,4,6-Tribromophenol	150	114	76		45	141
		Terphenyl-d14	100	69.5	70		45	142
PB152460BS	PB152460BS	2-Fluorophenol	150	125	83		10	139
		Phenol-d6	150	121	81		10	134
		Nitrobenzene-d5	100	79.6	80		49	133
		2-Fluorobiphenyl	100	81.6	82		52	132

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Surrogate Summary

SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB152460BS	PB152460BS	2,4,6-Tribromophenol	150	123	82		45	141
		Terphenyl-d14	100	82.2	82		45	142

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: O2521-09MS		**Client Sample ID: GMW-7MS**						**DataFile: BF133152.D**			
Benzaldehyde	50	0	40.7	ug/L	81				10	137	
Phenol	50	0	13.2	ug/L	26				10	130	
bis(2-Chloroethyl)ether	50	0	36.7	ug/L	73				29	141	
2-Chlorophenol	50	0	32.6	ug/L	65				23	127	
2-Methylphenol	50	0	25.7	ug/L	51				43	134	
2,2-oxybis(1-Chloropropane)	50	0	34.5	ug/L	69				36	141	
Acetophenone	50	0	38.5	ug/L	77				31	164	
3+4-Methylphenols	50	0	23.3	ug/L	47				37	137	
N-Nitroso-di-n-propylamine	50	0	36.9	ug/L	74				36	147	
Hexachloroethane	50	0	32.0	ug/L	64				50	127	
Nitrobenzene	50	0	35.3	ug/L	71				59	129	
Isophorone	50	0	36.4	ug/L	73				39	146	
2-Nitrophenol	50	0	38.6	ug/L	77				30	148	
2,4-Dimethylphenol	50	0	34.7	ug/L	69				17	143	
bis(2-Chloroethoxy)methane	50	0	37.2	ug/L	74				39	143	
2,4-Dichlorophenol	50	0	36.2	ug/L	72				22	146	
Naphthalene	50	0	35.0	ug/L	70				17	157	
4-Chloroaniline	50	0	20.3	ug/L	41				10	95	
Hexachlorobutadiene	50	0	32.8	ug/L	66				52	125	
Caprolactam	50	0	9.70	ug/L	19				10	130	
4-Chloro-3-methylphenol	50	0	35.2	ug/L	70				17	148	
2-Methylnaphthalene	50	0	35.3	ug/L	71				38	146	
Hexachlorocyclopentadiene	100	0	69.2	ug/L	69				20	153	
2,4,6-Trichlorophenol	50	0	39.2	ug/L	78				64	129	
2,4,5-Trichlorophenol	50	0	36.4	ug/L	73				64	131	
1,1-Biphenyl	50	0	38.1	ug/L	76				38	154	
2-Chloronaphthalene	50	0	39.3	ug/L	79				41	145	
2-Nitroaniline	50	0	40.1	ug/L	80				39	151	
Dimethylphthalate	50	0	39.6	ug/L	79				42	147	
Acenaphthylene	50	0	38.1	ug/L	76				40	141	
2,6-Dinitrotoluene	50	0	40.9	ug/L	82				43	148	
3-Nitroaniline	50	0	23.4	ug/L	47				10	111	
Acenaphthene	50	0	42.2	ug/L	84				37	146	
2,4-Dinitrophenol	100	0	77.6	ug/L	78				14	167	
4-Nitrophenol	100	0	27.2	ug/L	27				10	130	
Dibenzofuran	50	0	38.5	ug/L	77				41	145	
2,4-Dinitrotoluene	50	0	42.1	ug/L	84				56	142	
Diethylphthalate	50	0	40.2	ug/L	80				41	148	
4-Chlorophenyl-phenylether	50	0	38.1	ug/L	76				38	149	
Fluorene	50	0	38.6	ug/L	77				39	144	
4-Nitroaniline	50	0	39.1	ug/L	78				27	138	
4,6-Dinitro-2-methylphenol	50	0	42.6	ug/L	85				32	175	
N-Nitrosodiphenylamine	50	0	39.3	ug/L	79				40	150	
4-Bromophenyl-phenylether	50	0	39.4	ug/L	79				42	151	
Hexachlorobenzene	50	0	41.0	ug/L	82				60	129	
Atrazine	50	0	43.6	ug/L	87				20	162	
Pentachlorophenol	100	0	63.2	ug/L	63				35	147	

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Phenanthrene	50	0	39.4	ug/L	79				40	147	
Anthracene	50	0	39.5	ug/L	79				41	146	
Carbazole	50	0	39.4	ug/L	79				37	154	
Di-n-butylphthalate	50	0	42.2	ug/L	84				40	151	
Fluoranthene	50	0	37.9	ug/L	76				42	146	
Pyrene	50	0	47.8	ug/L	96				41	149	
Butylbenzylphthalate	50	0	54.0	ug/L	108				39	155	
3,3-Dichlorobenzidine	50	0	27.9	ug/L	56				10	114	
Benzo(a)anthracene	50	0	40.1	ug/L	80				41	147	
Chrysene	50	0	39.4	ug/L	79				44	144	
bis(2-Ethylhexyl)phthalate	50	0	50.4	ug/L	101				33	160	
Di-n-octyl phthalate	50	0	50.1	ug/L	100				36	158	
Benzo(b)fluoranthene	50	0	38.7	ug/L	77				40	150	
Benzo(k)fluoranthene	50	0	38.6	ug/L	77				40	147	
Benzo(a)pyrene	50	0	38.3	ug/L	77				42	147	
Indeno(1,2,3-cd)pyrene	50	0	51.4	ug/L	103				30	166	
Dibenz(a,h)anthracene	50	0	52.0	ug/L	104				23	172	
Benzo(g,h,i)perylene	50	0	51.4	ug/L	103				27	167	
1,2,4,5-Tetrachlorobenzene	50	0	36.5	ug/L	73	*			89	102	
1,4-Dioxane	50	0	16.2	ug/L	32	*			38	130	
2,3,4,6-Tetrachlorophenol	50	0	39.3	ug/L	79	*			91	111	

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: O2521-10MSD		**Client Sample ID: GMW-7MSD**						**DataFile: BF133153.D**			
Benzaldehyde	50	0	38.8	ug/L	78		4		10	137	20
Phenol	50	0	12.9	ug/L	26		0		10	130	20
bis(2-Chloroethyl)ether	50	0	35.8	ug/L	72		1		29	141	20
2-Chlorophenol	50	0	31.8	ug/L	64		2		23	127	20
2-Methylphenol	50	0	24.3	ug/L	49		4		43	134	20
2,2-oxybis(1-Chloropropane)	50	0	33.4	ug/L	67		3		36	141	20
Acetophenone	50	0	38.5	ug/L	77		0		31	164	20
3+4-Methylphenols	50	0	22.7	ug/L	45		4		37	137	20
N-Nitroso-di-n-propylamine	50	0	35.4	ug/L	71		4		36	147	20
Hexachloroethane	50	0	30.5	ug/L	61		5		50	127	20
Nitrobenzene	50	0	35.3	ug/L	71		0		59	129	20
Isophorone	50	0	36.5	ug/L	73		0		39	146	20
2-Nitrophenol	50	0	38.7	ug/L	77		0		30	148	20
2,4-Dimethylphenol	50	0	34.9	ug/L	70		1		17	143	20
bis(2-Chloroethoxy)methane	50	0	36.7	ug/L	73		1		39	143	20
2,4-Dichlorophenol	50	0	36.7	ug/L	73		1		22	146	20
Naphthalene	50	0	35.3	ug/L	71		1		17	157	20
4-Chloroaniline	50	0	24.7	ug/L	49		18		10	95	20
Hexachlorobutadiene	50	0	33.2	ug/L	66		0		52	125	20
Caprolactam	50	0	10.0	ug/L	20		5		10	130	20
4-Chloro-3-methylphenol	50	0	35.0	ug/L	70		0		17	148	20
2-Methylnaphthalene	50	0	36.1	ug/L	72		1		38	146	20
Hexachlorocyclopentadiene	100	0	69.6	ug/L	70		1		20	153	20
2,4,6-Trichlorophenol	50	0	38.5	ug/L	77		1		64	129	20
2,4,5-Trichlorophenol	50	0	35.6	ug/L	71		3		64	131	20
1,1-Biphenyl	50	0	38.1	ug/L	76		0		38	154	20
2-Chloronaphthalene	50	0	38.6	ug/L	77		3		41	145	20
2-Nitroaniline	50	0	38.1	ug/L	76		5		39	151	20
Dimethylphthalate	50	0	39.1	ug/L	78		1		42	147	20
Acenaphthylene	50	0	38.4	ug/L	77		1		40	141	20
2,6-Dinitrotoluene	50	0	40.7	ug/L	81		1		43	148	20
3-Nitroaniline	50	0	25.7	ug/L	51		8		10	111	20
Acenaphthene	50	0	41.3	ug/L	83		1		37	146	20
2,4-Dinitrophenol	100	0	80.5	ug/L	81		4		14	167	20
4-Nitrophenol	100	0	27.4	ug/L	27		0		10	130	20
Dibenzofuran	50	0	37.8	ug/L	76		1		41	145	20
2,4-Dinitrotoluene	50	0	42.2	ug/L	84		0		56	142	20
Diethylphthalate	50	0	40.1	ug/L	80		0		41	148	20
4-Chlorophenyl-phenylether	50	0	38.1	ug/L	76		0		38	149	20
Fluorene	50	0	38.8	ug/L	78		1		39	144	20
4-Nitroaniline	50	0	38.9	ug/L	78		0		27	138	20
4,6-Dinitro-2-methylphenol	50	0	43.7	ug/L	87		2		32	175	20
N-Nitrosodiphenylamine	50	0	39.4	ug/L	79		0		40	150	20
4-Bromophenyl-phenylether	50	0	39.0	ug/L	78		1		42	151	20
Hexachlorobenzene	50	0	41.5	ug/L	83		1		60	129	20
Atrazine	50	0	45.4	ug/L	91		4		20	162	20
Pentachlorophenol	100	0	66.0	ug/L	66		5		35	147	20

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Phenanthrene	50	0	39.5	ug/L	79		0		40	147	20
Anthracene	50	0	39.8	ug/L	80		1		41	146	20
Carbazole	50	0	40.0	ug/L	80		1		37	154	20
Di-n-butylphthalate	50	0	43.0	ug/L	86		2		40	151	20
Fluoranthene	50	0	38.8	ug/L	78		3		42	146	20
Pyrene	50	0	46.7	ug/L	93		3		41	149	20
Butylbenzylphthalate	50	0	54.4	ug/L	109		1		39	155	20
3,3-Dichlorobenzidine	50	0	31.8	ug/L	64		13		10	114	20
Benzo(a)anthracene	50	0	39.9	ug/L	80		0		41	147	20
Chrysene	50	0	38.7	ug/L	77		3		44	144	20
bis(2-Ethylhexyl)phthalate	50	0	49.8	ug/L	100		1		33	160	20
Di-n-octyl phthalate	50	0	49.8	ug/L	100		0		36	158	20
Benzo(b)fluoranthene	50	0	39.1	ug/L	78		1		40	150	20
Benzo(k)fluoranthene	50	0	38.2	ug/L	76		1		40	147	20
Benzo(a)pyrene	50	0	38.5	ug/L	77		0		42	147	20
Indeno(1,2,3-cd)pyrene	50	0	52.0	ug/L	104		1		30	166	20
Dibenz(a,h)anthracene	50	0	52.2	ug/L	104		0		23	172	20
Benzo(g,h,i)perylene	50	0	51.9	ug/L	104		1		27	167	20
1,2,4,5-Tetrachlorobenzene	50	0	36.0	ug/L	72	*	1		89	102	20
1,4-Dioxane	50	0	15.7	ug/L	31	*	3		38	130	20
2,3,4,6-Tetrachlorophenol	50	0	39.6	ug/L	79	*	0		91	111	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: 8270E **DataFile:** BF133115.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB152460BS	Benzaldehyde	50	45.1	ug/L	90				21	131	
	Phenol	50	39.3	ug/L	79				66	118	
	bis(2-Chloroethyl)ether	50	41.9	ug/L	84				62	103	
	2-Chlorophenol	50	45.5	ug/L	91				70	117	
	2-Methylphenol	50	43.0	ug/L	86				69	109	
	2,2-oxybis(1-Chloropropane)	50	38.6	ug/L	77				52	103	
	Acetophenone	50	42.4	ug/L	85				60	104	
	3+4-Methylphenols	50	41.4	ug/L	83				67	106	
	N-Nitroso-di-n-propylamine	50	39.0	ug/L	78				57	107	
	Hexachloroethane	50	43.9	ug/L	88				60	105	
	Nitrobenzene	50	39.2	ug/L	78				58	106	
	Isophorone	50	39.1	ug/L	78				61	102	
	2-Nitrophenol	50	45.8	ug/L	92				70	115	
	2,4-Dimethylphenol	50	43.4	ug/L	87				67	130	
	bis(2-Chloroethoxy)methane	50	39.9	ug/L	80				58	109	
	2,4-Dichlorophenol	50	43.6	ug/L	87				66	115	
	Naphthalene	50	40.5	ug/L	81				64	107	
	4-Chloroaniline	50	27.9	ug/L	56				10	85	
	Hexachlorobutadiene	50	42.0	ug/L	84				56	102	
	Caprolactam	50	46.3	ug/L	93				47	129	
	4-Chloro-3-methylphenol	50	43.7	ug/L	87				65	114	
	2-Methylnaphthalene	50	39.9	ug/L	80				64	107	
	Hexachlorocyclopentadiene	100	90.3	ug/L	90				49	132	
	2,4,6-Trichlorophenol	50	41.5	ug/L	83				61	110	
	2,4,5-Trichlorophenol	50	39.1	ug/L	78				70	106	
	1,1-Biphenyl	50	40.1	ug/L	80				72	98	
	2-Chloronaphthalene	50	41.1	ug/L	82				59	106	
	2-Nitroaniline	50	39.2	ug/L	78				58	107	
	Dimethylphthalate	50	40.2	ug/L	80				64	103	
	Acenaphthylene	50	39.3	ug/L	79				65	108	
	2,6-Dinitrotoluene	50	41.2	ug/L	82				64	110	
	3-Nitroaniline	50	32.7	ug/L	65				28	100	
	Acenaphthene	50	43.7	ug/L	87				59	113	
	2,4-Dinitrophenol	100	100	ug/L	100				48	129	
	4-Nitrophenol	100	85.2	ug/L	85				54	119	
	Dibenzofuran	50	39.6	ug/L	79				65	106	
	2,4-Dinitrotoluene	50	43.8	ug/L	88				60	115	
	Diethylphthalate	50	39.7	ug/L	79				63	105	
	4-Chlorophenyl-phenylether	50	39.4	ug/L	79				61	104	
	Fluorene	50	40.2	ug/L	80				64	107	
	4-Nitroaniline	50	45.5	ug/L	91				57	103	
	4,6-Dinitro-2-methylphenol	50	48.1	ug/L	96				62	132	
	N-Nitrosodiphenylamine	50	40.0	ug/L	80				61	109	
	4-Bromophenyl-phenylether	50	40.6	ug/L	81				73	103	
	Hexachlorobenzene	50	43.9	ug/L	88				73	106	
	Atrazine	50	45.9	ug/L	92				52	134	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: 8270E **DataFile:** BF133115.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB152460BS	Pentachlorophenol	100	75.1	ug/L	75				65	112	
	Phenanthrene	50	40.0	ug/L	80				62	109	
	Anthracene	50	39.9	ug/L	80				65	110	
	Carbazole	50	41.5	ug/L	83				62	106	
	Di-n-butylphthalate	50	41.6	ug/L	83				64	106	
	Fluoranthene	50	41.0	ug/L	82				64	110	
	Pyrene	50	40.3	ug/L	81				71	103	
	Butylbenzylphthalate	50	47.8	ug/L	96				61	105	
	3,3-Dichlorobenzidine	50	42.7	ug/L	85				30	96	
	Benzo(a)anthracene	50	40.1	ug/L	80				62	107	
	Chrysene	50	39.6	ug/L	79				61	108	
	bis(2-Ethylhexyl)phthalate	50	43.1	ug/L	86				59	110	
	Di-n-octyl phthalate	50	46.9	ug/L	94				55	116	
	Benzo(b)fluoranthene	50	46.5	ug/L	93				64	111	
	Benzo(k)fluoranthene	50	41.8	ug/L	84				64	113	
	Benzo(a)pyrene	50	41.4	ug/L	83				72	131	
	Indeno(1,2,3-cd)pyrene	50	48.1	ug/L	96				72	105	
	Dibenz(a,h)anthracene	50	48.5	ug/L	97				63	117	
	Benzo(g,h,i)perylene	50	48.8	ug/L	98				61	120	
	1,2,4,5-Tetrachlorobenzene	50	40.2	ug/L	80				72	101	
	1,4-Dioxane	50	35.5	ug/L	71				38	125	
	2,3,4,6-Tetrachlorophenol	50	42.3	ug/L	85				63	116	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB152460BL

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

Lab File ID: BF133114.D Lab Sample ID: PB152460BL

Instrument ID: BNA_F Date Extracted: 04/27/2023

Matrix: (soil/water) Water Date Analyzed: 04/28/2023

Level: (low/med) LOW Time Analyzed: 10:16

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB152460BS	PB152460BS	BF133115.D	04/28/2023
GMW-7	O2521-07	BF133151.D	05/01/2023
GMW-7MS	O2521-09MS	BF133152.D	05/01/2023
GMW-7MSD	O2521-10MSD	BF133153.D	05/01/2023
FB	O2521-14	BF133161.D	05/01/2023
GMW-1	O2521-01	BF133182.D	05/02/2023
GMW-10	O2521-05	BF133183.D	05/02/2023
PZ-15	O2521-03	BF133184.D	05/02/2023

COMMENTS:

Form IV SV

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2521 SDG NO.: O2521

Lab File ID: BF132964.D DFTPP Injection Date: 04/21/2023

Instrument ID: BNA_F DFTPP Injection Time: 12:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.3
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	36.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	45.8
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26.3
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	13.8
442	Greater than 50% of mass 198	89.4
443	15.0 - 24.0% of mass 442	16.9 (18.9) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF132965.D	04/21/2023	13:11
SSTDICC005	SSTDICC005	BF132966.D	04/21/2023	13:42
SSTDICC010	SSTDICC010	BF132967.D	04/21/2023	14:12
SSTDICC020	SSTDICC020	BF132968.D	04/21/2023	14:43
SSTDICCC040	SSTDICCC040	BF132969.D	04/21/2023	15:15
SSTDICC050	SSTDICC050	BF132970.D	04/21/2023	15:47
SSTDICC060	SSTDICC060	BF132971.D	04/21/2023	16:19
SSTDICC080	SSTDICC080	BF132972.D	04/21/2023	16:50

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2521 SDG NO.: O2521

Lab File ID: BF133112.D DFTPP Injection Date: 04/28/2023

Instrument ID: BNA_F DFTPP Injection Time: 09:14

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.3
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	30.8
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	40.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.2
275	10.0 - 60.0% of mass 198	25.9
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	15.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.4 (18.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF133113.D	04/28/2023	09:45
PB152460BL	PB152460BL	BF133114.D	04/28/2023	10:16
PB152460BS	PB152460BS	BF133115.D	04/28/2023	10:47

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2521 SDG NO.: O2521

Lab File ID: BF133146.D DFTPP Injection Date: 05/01/2023

Instrument ID: BNA_F DFTPP Injection Time: 10:10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.9
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	34.4
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	45.9
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	26
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	14.3
442	Greater than 50% of mass 198	91.1
443	15.0 - 24.0% of mass 442	17 (18.7) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF133147.D	05/01/2023	10:41
GMW-7	O2521-07	BF133151.D	05/01/2023	12:47
GMW-7MS	O2521-09MS	BF133152.D	05/01/2023	13:18
GMW-7MSD	O2521-10MSD	BF133153.D	05/01/2023	13:49

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2521 SDG NO.: O2521

Lab File ID: BF133155.D DFTPP Injection Date: 05/01/2023

Instrument ID: BNA_F DFTPP Injection Time: 14:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.2
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	34.1
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	45.8
197	Less than 2.0% of mass 198	1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	25.4
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	13.2
442	Greater than 50% of mass 198	86
443	15.0 - 24.0% of mass 442	15.8 (18.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF133156.D	05/01/2023	15:25
FB	O2521-14	BF133161.D	05/01/2023	18:06

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2521 SDG NO.: O2521

Lab File ID: BF133178.D DFTPP Injection Date: 05/02/2023

Instrument ID: BNA_F DFTPP Injection Time: 09:23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	35.9
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	46.9
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	25.6
365	Greater than 1% of mass 198	2.9
441	Present, but less than mass 443	13
442	Greater than 50% of mass 198	83.8
443	15.0 - 24.0% of mass 442	16.1 (19.2) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF133179.D	05/02/2023	09:54
GMW-1	O2521-01	BF133182.D	05/02/2023	11:39
GMW-10	O2521-05	BF133183.D	05/02/2023	12:11
PZ-15	O2521-03	BF133184.D	05/02/2023	12:42

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/28/2023

Lab File ID: BF133113.D Time Analyzed: 09:45

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	198535	6.739	770653	8.02	402568	9.77
	UPPER LIMIT	397070	7.239	1541310	8.522	805136	10.274
	LOWER LIMIT	99267.5	6.239	385327	7.522	201284	9.274
	EPA SAMPLE NO.						
01	PB152460BL	222354	6.73	909738	8.02	497178	9.77
02	PB152460BS	195818	6.74	817481	8.02	432093	9.78

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/28/2023

Lab File ID: BF133113.D Time Analyzed: 09:45

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	728942	11.257	481262	13.892	419069	15.309
	UPPER LIMIT	1457880	11.757	962524	14.392	838138	15.809
	LOWER LIMIT	364471	10.757	240631	13.392	209535	14.809
	EPA SAMPLE NO.						
01	PB152460BL	894791	11.25	645193	13.89	589322	15.31
02	PB152460BS	762637	11.26	503022	13.89	426531	15.31

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/28/2023

Lab File ID: BF133124.D Time Analyzed: 16:17

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	169530	6.739	651406	8.02	331291	9.78
	UPPER LIMIT	339060	7.239	1302810	8.522	662582	10.275
	LOWER LIMIT	84765	6.239	325703	7.522	165646	9.275
	EPA SAMPLE NO.						
01	MW-4MSD	183608	6.73	751779	8.02	381525	9.78
02	MW-4MS	190366	6.73	772909	8.02	393106	9.78

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/28/2023

Lab File ID: BF133124.D Time Analyzed: 16:17

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	609324	11.251	433500	13.892	385479	15.309
	UPPER LIMIT	1218650	11.751	867000	14.392	770958	15.809
	LOWER LIMIT	304662	10.751	216750	13.392	192740	14.809
	EPA SAMPLE NO.						
01	MW-4MSD	684496	11.25	425360	13.89	366457	15.30
02	MW-4MS	700777	11.25	454277	13.89	386766	15.30

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2023

Lab File ID: BF133147.D Time Analyzed: 10:41

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	217083	6.733	848696	8.02	437359	9.77
	UPPER LIMIT	434166	7.233	1697390	8.516	874718	10.269
	LOWER LIMIT	108542	6.233	424348	7.516	218680	9.269
	EPA SAMPLE NO.						
01	GMW-7MS	203700	6.73	837623	8.02	424855	9.77
02	GMW-7MSD	195768	6.73	779426	8.02	408781	9.77
03	GMW-7	186758	6.73	760166	8.02	403432	9.76

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2023

Lab File ID: BF133147.D Time Analyzed: 10:41

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	726398	11.251	488634	13.892	431751	15.304
	UPPER LIMIT	1452800	11.751	977268	14.392	863502	15.804
	LOWER LIMIT	363199	10.751	244317	13.392	215876	14.804
	EPA SAMPLE NO.						
01	GMW-7MS	739323	11.25	372991	13.89	387375	15.30
02	GMW-7MSD	712325	11.25	379662	13.89	380330	15.30
03	GMW-7	715597	11.25	392041	13.88	351902	15.30

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2023

Lab File ID: BF133156.D Time Analyzed: 15:25

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	201641	6.734	797320	8.02	409305	9.77
	UPPER LIMIT	403282	7.234	1594640	8.516	818610	10.269
	LOWER LIMIT	100821	6.234	398660	7.516	204653	9.269
	EPA SAMPLE NO.						
01	FB	181752	6.73	744647	8.01	393741	9.76

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2023

Lab File ID: BF133156.D Time Analyzed: 15:25

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	709193	11.251	470586	13.886	409938	15.304
	UPPER LIMIT	1418390	11.751	941172	14.386	819876	15.804
	LOWER LIMIT	354597	10.751	235293	13.386	204969	14.804
	EPA SAMPLE NO.						
01	FB	715460	11.25	386608	13.88	370078	15.30

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/02/2023

Lab File ID: BF133179.D Time Analyzed: 09:54

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	210801	6.734	810149	8.02	408451	9.77
	UPPER LIMIT	421602	7.234	1620300	8.516	816902	10.269
	LOWER LIMIT	105401	6.234	405075	7.516	204226	9.269
	EPA SAMPLE NO.						
01	GMW-1	217825	6.73	867706	8.02	448217	9.77
02	PZ-15	202539	6.73	828276	8.01	431004	9.76
03	GMW-10	222157	6.73	884085	8.02	465386	9.77

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/02/2023

Lab File ID: BF133179.D Time Analyzed: 09:54

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	739807	11.251	524855	13.892	463126	15.309
	UPPER LIMIT	1479610	11.751	1049710	14.392	926252	15.809
	LOWER LIMIT	369904	10.751	262428	13.392	231563	14.809
	EPA SAMPLE NO.						
01	GMW-1	782429	11.25	465239	13.89	390223	15.30
02	PZ-15	775776	11.25	487304	13.88	371572	15.30
03	GMW-10	807304	11.25	532323	13.88	408265	15.30

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152460BL	SDG No.:	O2521
Lab Sample ID:	PB152460BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133114.D	1	04/27/23 10:50	04/28/23 10:16	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152460BL	SDG No.:	O2521
Lab Sample ID:	PB152460BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133114.D	1	04/27/23 10:50	04/28/23 10:16	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152460BL	SDG No.:	O2521
Lab Sample ID:	PB152460BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133114.D	1	04/27/23 10:50	04/28/23 10:16	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	116		10 - 139	77%	SPK: 150
13127-88-3	Phenol-d6	117		10 - 134	78%	SPK: 150
4165-60-0	Nitrobenzene-d5	73.6		49 - 133	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.7		52 - 132	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	114		45 - 141	76%	SPK: 150
1718-51-0	Terphenyl-d14	69.5		45 - 142	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	222000	6.734			
1146-65-2	Naphthalene-d8	910000	8.022			
15067-26-2	Acenaphthene-d10	497000	9.769			
1517-22-2	Phenanthrene-d10	895000	11.251			
1719-03-5	Chrysene-d12	645000	13.886			
1520-96-3	Perylene-d12	589000	15.31			
TENTATIVE IDENTIFIED COMPOUNDS						
001825-64-5	Isopropyl alcohol, TMS derivative	2.50	J		2.12	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	44.2	A		4.95	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152460BS	SDG No.:	O2521
Lab Sample ID:	PB152460BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133115.D	1	04/27/23 10:50	04/28/23 10:47	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	45.1		3.30	10.0	ug/L
108-95-2	Phenol	39.3		1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.9		1.70	5.00	ug/L
95-57-8	2-Chlorophenol	45.5		1.40	5.00	ug/L
95-48-7	2-Methylphenol	43.0		2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	38.6		2.30	5.00	ug/L
98-86-2	Acetophenone	42.4		1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	41.4		2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	39.0		2.00	2.50	ug/L
67-72-1	Hexachloroethane	43.9		1.60	5.00	ug/L
98-95-3	Nitrobenzene	39.2		1.70	5.00	ug/L
78-59-1	Isophorone	39.1		1.70	5.00	ug/L
88-75-5	2-Nitrophenol	45.8		2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	43.4		3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	39.9		2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	43.6		1.70	5.00	ug/L
91-20-3	Naphthalene	40.5		1.70	5.00	ug/L
106-47-8	4-Chloroaniline	27.9		2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	42.0		1.90	5.00	ug/L
105-60-2	Caprolactam	46.3		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	43.7		1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	39.9		2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	90.3	E	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	41.5		1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	39.1		1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	40.1		1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	41.1		1.60	5.00	ug/L
88-74-4	2-Nitroaniline	39.2		2.40	5.00	ug/L
131-11-3	Dimethylphthalate	40.2		1.90	5.00	ug/L
208-96-8	Acenaphthylene	39.3		2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	41.2		2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152460BS	SDG No.:	O2521
Lab Sample ID:	PB152460BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133115.D	1	04/27/23 10:50	04/28/23 10:47	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	32.7		2.40	5.00	ug/L
83-32-9	Acenaphthene	43.7		1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	100	E	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	85.2	E	2.80	10.0	ug/L
132-64-9	Dibenzofuran	39.6		1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	43.8		2.50	5.00	ug/L
84-66-2	Diethylphthalate	39.7		2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	39.4		2.20	5.00	ug/L
86-73-7	Fluorene	40.2		2.00	5.00	ug/L
100-01-6	4-Nitroaniline	45.5		2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.1		1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	40.0		2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	40.6		2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	43.9		1.90	5.00	ug/L
1912-24-9	Atrazine	45.9		3.50	5.00	ug/L
87-86-5	Pentachlorophenol	75.1		2.60	10.0	ug/L
85-01-8	Phenanthrene	40.0		2.00	5.00	ug/L
120-12-7	Anthracene	39.9		2.30	5.00	ug/L
86-74-8	Carbazole	41.5		1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	41.6		2.40	5.00	ug/L
206-44-0	Fluoranthene	41.0		2.10	5.00	ug/L
129-00-0	Pyrene	40.3		1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	47.8		2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	42.7		5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	40.1		1.50	5.00	ug/L
218-01-9	Chrysene	39.6		1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	43.1		2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	46.9		3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	46.5		1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	41.8		1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	41.4		2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	48.1		2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	48.5		2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152460BS	SDG No.:	O2521
Lab Sample ID:	PB152460BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133115.D	1	04/27/23 10:50	04/28/23 10:47	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	48.8		1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	40.2		2.10	5.00	ug/L
123-91-1	1,4-Dioxane	35.5		2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	42.3		1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	125		10 - 139	83%	SPK: 150
13127-88-3	Phenol-d6	121		10 - 134	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.6		49 - 133	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.6		52 - 132	82%	SPK: 100
118-79-6	2,4,6-Tribromophenol	123		45 - 141	82%	SPK: 150
1718-51-0	Terphenyl-d14	82.2		45 - 142	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	196000	6.74			
1146-65-2	Naphthalene-d8	817000	8.022			
15067-26-2	Acenaphthene-d10	432000	9.775			
1517-22-2	Phenanthrene-d10	763000	11.257			
1719-03-5	Chrysene-d12	503000	13.892			
1520-96-3	Perylene-d12	427000	15.31			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MS	SDG No.:	O2521
Lab Sample ID:	O2521-09MS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133152.D	1	04/27/23 10:50	05/01/23 13:18	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	40.7		3.30	10.0	ug/L
108-95-2	Phenol	13.2		1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	36.7		1.70	5.00	ug/L
95-57-8	2-Chlorophenol	32.6		1.40	5.00	ug/L
95-48-7	2-Methylphenol	25.7		2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	34.5		2.30	5.00	ug/L
98-86-2	Acetophenone	38.5		1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	23.3		2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	36.9		2.00	2.50	ug/L
67-72-1	Hexachloroethane	32.0		1.60	5.00	ug/L
98-95-3	Nitrobenzene	35.3		1.70	5.00	ug/L
78-59-1	Isophorone	36.4		1.70	5.00	ug/L
88-75-5	2-Nitrophenol	38.6		2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	34.7		3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	37.2		2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	36.2		1.70	5.00	ug/L
91-20-3	Naphthalene	35.0		1.70	5.00	ug/L
106-47-8	4-Chloroaniline	20.3		2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	32.8		1.90	5.00	ug/L
105-60-2	Caprolactam	9.70	J	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	35.2		1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	35.3		2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	69.2		5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	39.2		1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	36.4		1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	38.1		1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	39.3		1.60	5.00	ug/L
88-74-4	2-Nitroaniline	40.1		2.40	5.00	ug/L
131-11-3	Dimethylphthalate	39.6		1.90	5.00	ug/L
208-96-8	Acenaphthylene	38.1		2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	40.9		2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MS	SDG No.:	O2521
Lab Sample ID:	O2521-09MS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133152.D	1	04/27/23 10:50	05/01/23 13:18	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	23.4		2.40	5.00	ug/L
83-32-9	Acenaphthene	42.2		1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	77.6		5.50	10.0	ug/L
100-02-7	4-Nitrophenol	27.2		2.80	10.0	ug/L
132-64-9	Dibenzofuran	38.5		1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	42.1		2.50	5.00	ug/L
84-66-2	Diethylphthalate	40.2		2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	38.1		2.20	5.00	ug/L
86-73-7	Fluorene	38.6		2.00	5.00	ug/L
100-01-6	4-Nitroaniline	39.1		2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	42.6		1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	39.3		2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	39.4		2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	41.0		1.90	5.00	ug/L
1912-24-9	Atrazine	43.6		3.50	5.00	ug/L
87-86-5	Pentachlorophenol	63.2		2.60	10.0	ug/L
85-01-8	Phenanthrene	39.4		2.00	5.00	ug/L
120-12-7	Anthracene	39.5		2.30	5.00	ug/L
86-74-8	Carbazole	39.4		1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	42.2		2.40	5.00	ug/L
206-44-0	Fluoranthene	37.9		2.10	5.00	ug/L
129-00-0	Pyrene	47.8		1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	54.0		2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	27.9		5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	40.1		1.50	5.00	ug/L
218-01-9	Chrysene	39.4		1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	50.4		2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	50.1		3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	38.7		1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	38.6		1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	38.3		2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	51.4		2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	52.0		2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MS	SDG No.:	O2521
Lab Sample ID:	O2521-09MS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133152.D	1	04/27/23 10:50	05/01/23 13:18	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	51.4		1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	36.5		2.10	5.00	ug/L
123-91-1	1,4-Dioxane	16.2		2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	39.3		1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	51.8		10 - 139	35%	SPK: 150
13127-88-3	Phenol-d6	33.1		10 - 134	22%	SPK: 150
4165-60-0	Nitrobenzene-d5	70.2		49 - 133	70%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.1		52 - 132	74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	108		45 - 141	72%	SPK: 150
1718-51-0	Terphenyl-d14	93.7		45 - 142	94%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	204000	6.728			
1146-65-2	Naphthalene-d8	838000	8.016			
15067-26-2	Acenaphthene-d10	425000	9.769			
1517-22-2	Phenanthrene-d10	739000	11.251			
1719-03-5	Chrysene-d12	373000	13.886			
1520-96-3	Perylene-d12	387000	15.304			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MSD	SDG No.:	O2521
Lab Sample ID:	O2521-10MSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133153.D	1	04/27/23 10:50	05/01/23 13:49	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	38.8		3.30	10.0	ug/L
108-95-2	Phenol	12.9		1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	35.8		1.70	5.00	ug/L
95-57-8	2-Chlorophenol	31.8		1.40	5.00	ug/L
95-48-7	2-Methylphenol	24.3		2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	33.4		2.30	5.00	ug/L
98-86-2	Acetophenone	38.5		1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	22.7		2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	35.4		2.00	2.50	ug/L
67-72-1	Hexachloroethane	30.5		1.60	5.00	ug/L
98-95-3	Nitrobenzene	35.3		1.70	5.00	ug/L
78-59-1	Isophorone	36.5		1.70	5.00	ug/L
88-75-5	2-Nitrophenol	38.7		2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	34.9		3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	36.7		2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	36.7		1.70	5.00	ug/L
91-20-3	Naphthalene	35.3		1.70	5.00	ug/L
106-47-8	4-Chloroaniline	24.7		2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	33.2		1.90	5.00	ug/L
105-60-2	Caprolactam	10.0		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	35.0		1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	36.1		2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	69.6		5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	38.5		1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	35.6		1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	38.1		1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	38.6		1.60	5.00	ug/L
88-74-4	2-Nitroaniline	38.1		2.40	5.00	ug/L
131-11-3	Dimethylphthalate	39.1		1.90	5.00	ug/L
208-96-8	Acenaphthylene	38.4		2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	40.7		2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MSD	SDG No.:	O2521
Lab Sample ID:	O2521-10MSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133153.D	1	04/27/23 10:50	05/01/23 13:49	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	25.7		2.40	5.00	ug/L
83-32-9	Acenaphthene	41.3		1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	80.5	E	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	27.4		2.80	10.0	ug/L
132-64-9	Dibenzofuran	37.8		1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	42.2		2.50	5.00	ug/L
84-66-2	Diethylphthalate	40.1		2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	38.1		2.20	5.00	ug/L
86-73-7	Fluorene	38.8		2.00	5.00	ug/L
100-01-6	4-Nitroaniline	38.9		2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	43.7		1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	39.4		2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	39.0		2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	41.5		1.90	5.00	ug/L
1912-24-9	Atrazine	45.4		3.50	5.00	ug/L
87-86-5	Pentachlorophenol	66.0		2.60	10.0	ug/L
85-01-8	Phenanthrene	39.5		2.00	5.00	ug/L
120-12-7	Anthracene	39.8		2.30	5.00	ug/L
86-74-8	Carbazole	40.0		1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	43.0		2.40	5.00	ug/L
206-44-0	Fluoranthene	38.8		2.10	5.00	ug/L
129-00-0	Pyrene	46.7		1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	54.4		2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	31.8		5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	39.9		1.50	5.00	ug/L
218-01-9	Chrysene	38.7		1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	49.8		2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	49.8		3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	39.1		1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	38.2		1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	38.5		2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	52.0		2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	52.2		2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MSD	SDG No.:	O2521
Lab Sample ID:	O2521-10MSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133153.D	1	04/27/23 10:50	05/01/23 13:49	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	51.9		1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	36.0		2.10	5.00	ug/L
123-91-1	1,4-Dioxane	15.7		2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	39.6		1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	49.7		10 - 139	33%	SPK: 150
13127-88-3	Phenol-d6	31.9		10 - 134	21%	SPK: 150
4165-60-0	Nitrobenzene-d5	70.1		49 - 133	70%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.2		52 - 132	74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	110		45 - 141	74%	SPK: 150
1718-51-0	Terphenyl-d14	92.5		45 - 142	92%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	196000	6.728			
1146-65-2	Naphthalene-d8	779000	8.016			
15067-26-2	Acenaphthene-d10	409000	9.769			
1517-22-2	Phenanthrene-d10	712000	11.251			
1719-03-5	Chrysene-d12	380000	13.886			
1520-96-3	Perylene-d12	380000	15.304			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF042123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Sat Apr 22 03:30:56 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BF132965.D 5 =BF132966.D 10 =BF132967.D 20 =BF132968.D 40 =BF132969.D 50 =BF132970.D 60 =BF132971.D 80 =BF1329
72.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane	0.714	0.644	0.646	0.612	0.569	0.575	0.539	0.614		9.67
3)		Pyridine	1.675	1.643	1.752	1.673	1.573	1.614	1.488	1.631		5.17
4)		n-Nitrosodimet...	0.933	0.888	0.890	0.847	0.789	0.804	0.765	0.845		7.30
5)	S	2-Fluorophenol	1.587	1.456	1.437	1.322	1.200	1.180	1.085	1.324		13.53
6)		Aniline	2.341	2.241	2.314	2.197	2.008	2.006	1.709	2.117		10.60
7)	S	Phenol-d6	1.918	1.800	1.795	1.629	1.504	1.492	1.366	1.643		12.25
8)		2-Chlorophenol	1.575	1.485	1.479	1.354	1.225	1.208	1.084	1.344		13.31
9)		Benzaldehyde		1.115	1.002	0.762	0.683	0.640	0.545	0.791		28.00
10)	C	Phenol	2.117	1.981	1.990	1.822	1.664	1.643	1.474	1.813		12.70
11)		bis(2-Chloroet...	1.563	1.433	1.459	1.366	1.265	1.252	1.185	1.360		9.85
12)		1,3-Dichlorobe...	1.682	1.566	1.562	1.426	1.310	1.287	1.171	1.429		12.82
13)	C	1,4-Dichlorobe...	1.706	1.570	1.567	1.453	1.297	1.279	1.154	1.432		13.71
14)		1,2-Dichlorobe...	1.599	1.477	1.491	1.324	1.187	1.160	1.007	1.321		16.16
15)		Benzyl Alcohol	1.293	1.244	1.263	1.180	1.060	1.020	0.886	1.135		13.27
16)		2,2'-oxybis(1-...	2.695	2.537	2.568	2.379	2.181	2.176	2.004	2.363		10.63
17)		2-Methylphenol	1.399	1.313	1.314	1.238	1.135	1.140	1.078	1.231		9.56
18)		Hexachloroethane	0.562	0.541	0.544	0.500	0.465	0.454	0.419	0.498		10.80
19)	P	n-Nitroso-di-n...	1.129	1.150	1.087	1.086	1.001	0.913	0.933	0.885	1.023	10.15
20)		3+4-Methylphenols		1.803	1.697	1.649	1.438	1.266	1.209	1.085	1.450	18.90
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.563	0.525	0.502	0.454	0.411	0.407	0.381	0.463	14.72
23)	S	Nitrobenzene-d5		0.407	0.381	0.389	0.379	0.350	0.356	0.332	0.371	6.88
24)		Nitrobenzene		0.411	0.391	0.396	0.382	0.359	0.357	0.331	0.375	7.29
25)		Isophorone		0.754	0.706	0.717	0.710	0.665	0.696	0.677	0.704	4.09
26)	C	2-Nitrophenol		0.172	0.172	0.187	0.192	0.181	0.186	0.179	0.181	4.15
27)		2,4-Dimethylph...		0.344	0.320	0.323	0.319	0.289	0.296	0.284	0.311	6.98
28)		bis(2-Chloroet...		0.470	0.437	0.434	0.420	0.391	0.391	0.370	0.416	8.26
29)	C	2,4-Dichloroph...		0.306	0.291	0.299	0.292	0.268	0.271	0.252	0.283	6.83
30)		1,2,4-Trichlor...		0.335	0.305	0.313	0.295	0.273	0.276	0.253	0.293	9.43
31)		Naphthalene		1.196	1.094	1.079	1.011	0.898	0.910	0.811	1.000	13.40
32)		Benzoic acid		0.144	0.152	0.181	0.211	0.214	0.224	0.217	0.192	17.13
33)		4-Chloroaniline		0.456	0.442	0.444	0.402	0.367	0.374	0.341	0.404	11.08
34)	C	Hexachlorobuta...		0.182	0.174	0.172	0.164	0.150	0.153	0.142	0.162	9.08
35)		Caprolactam		0.096	0.093	0.097	0.100	0.092	0.097	0.092	0.095	3.23
36)	C	4-Chloro-3-met...		0.330	0.317	0.316	0.312	0.284	0.298	0.278	0.305	6.30
37)		2-Methylnaphth...		0.823	0.760	0.739	0.689	0.614	0.616	0.545	0.684	14.25
38)		1-Methylnaphth...		0.776	0.702	0.692	0.641	0.578	0.575	0.513	0.640	14.21

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF042123.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.611	0.578	0.583	0.541	0.495	0.495	0.460	0.538	10.41
41)	P	Hexachlorocycl...	0.286	0.296	0.334	0.334	0.313	0.324	0.307	0.314	5.86
42)	S	2,4,6-Tribromo...	0.211	0.203	0.214	0.208	0.191	0.197	0.184	0.201	5.42
43)	C	2,4,6-Trichlor...	0.396	0.372	0.396	0.381	0.353	0.363	0.343	0.372	5.54
44)		2,4,5-Trichlor...	0.464	0.437	0.452	0.444	0.411	0.418	0.384	0.430	6.33
45)	S	2-Fluorobiphenyl		1.476	1.430	1.210	1.081	1.054	0.922	1.195	18.41
46)		1,1'-Biphenyl	1.887	1.771	1.752	1.598	1.440	1.390	1.263	1.586	14.48
47)		2-Chloronaphth...	1.344	1.228	1.260	1.168	1.074	1.073	0.979	1.161	10.91
48)		2-Nitroaniline	0.373	0.379	0.407	0.402	0.372	0.386	0.366	0.384	4.04
49)		Acenaphthylene	2.146	2.002	2.049	1.893	1.709	1.681	1.504	1.855	12.45
50)		Dimethylphthalate	1.577	1.470	1.496	1.409	1.289	1.296	1.226	1.395	9.19
51)		2,6-Dinitrotol...	0.320	0.312	0.332	0.321	0.304	0.312	0.295	0.314	3.89
52)	C	Acenaphthene	1.448	1.334	1.352	1.258	1.138	1.139	1.026	1.242	11.90
53)		3-Nitroaniline	0.372	0.372	0.394	0.391	0.365	0.371	0.348	0.373	4.23
54)	P	2,4-Dinitrophenol	0.116	0.125	0.157	0.175	0.172	0.180	0.179	0.158	16.93
55)		Dibenzofuran	2.046	1.864	1.856	1.699	1.535	1.516	1.346	1.695	14.39
56)	P	4-Nitrophenol	0.282	0.281	0.303	0.309	0.286	0.285	0.278	0.289	4.10
57)		2,4-Dinitrotol...	0.408	0.398	0.428	0.424	0.389	0.397	0.358	0.400	5.84
58)		Fluorene	1.579	1.434	1.383	1.209	1.094	1.055	0.937	1.241	18.65
59)		2,3,4,6-Tetrac...	0.369	0.342	0.356	0.338	0.316	0.320	0.293	0.333	7.75
60)		Diethylphthalate	1.503	1.395	1.422	1.334	1.224	1.221	1.121	1.317	10.20
61)		4-Chlorophenyl...	0.744	0.689	0.688	0.596	0.535	0.523	0.459	0.605	17.34
62)		4-Nitroaniline	0.351	0.350	0.377	0.347	0.322	0.338	0.316	0.343	5.93
63)		Azobenzene	1.605	1.502	1.513	1.404	1.294	1.284	1.165	1.395	11.15
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.094	0.105	0.125	0.134	0.128	0.131	0.131	0.121	12.81
66)	c	n-Nitrosodiphe...	0.746	0.703	0.704	0.645	0.598	0.597	0.548	0.649	11.04
67)		4-Bromophenyl-...	0.237	0.226	0.229	0.219	0.205	0.209	0.193	0.217	6.98
68)		Hexachlorobenzene	0.236	0.231	0.236	0.225	0.210	0.215	0.203	0.222	5.95
69)		Atrazine	0.203	0.199	0.197	0.194	0.174	0.177	0.164	0.187	8.05
70)	C	Pentachlorophenol	0.150	0.154	0.164	0.170	0.156	0.161	0.153	0.158	4.43
71)		Phenanthrene	1.314	1.187	1.153	1.062	0.972	0.972	0.865	1.075	14.28
72)		Anthracene	1.314	1.214	1.194	1.099	0.992	0.999	0.888	1.100	13.59
73)		Carbazole	1.120	1.068	1.044	0.991	0.896	0.919	0.819	0.980	10.90
74)		Di-n-butylphth...	1.186	1.160	1.191	1.152	1.057	1.046	0.968	1.109	7.68
75)	C	Fluoranthene	1.251	1.164	1.164	1.094	0.992	0.982	0.904	1.079	11.46
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.313	0.374	0.425	0.340	0.288	0.289		0.338	15.86
78)		Pyrene	1.801	1.685	1.720	1.762	1.659	1.722	1.651	1.714	3.18
79)	S	Terphenyl-d14	1.290	1.208	1.208	1.173	1.078	1.119	1.041	1.160	7.41
80)		Butylbenzylpht...	0.487	0.516	0.592	0.665	0.639	0.679	0.671	0.607	12.86
81)		Benzo(a)anthra...	1.506	1.401	1.466	1.417	1.298	1.305	1.234	1.375	7.18
82)		3,3'-Dichlorob...	0.375	0.382	0.423	0.411	0.374	0.382	0.312	0.380	9.23
83)		Chrysene	1.501	1.402	1.426	1.413	1.302	1.322	1.259	1.375	6.10
84)		Bis(2-ethylhex...	0.727	0.743	0.806	0.817	0.759	0.768	0.714	0.762	5.05
85)	c	Di-n-octyl pht...	1.065	1.096	1.296	1.351	1.273	1.319	1.298	1.242	9.14

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF042123.M

86) I	Perylene-d12	----------ISTD----------								
87)	Indeno(1,2,3-c...	1.036	0.939	1.052	1.207	1.180	1.278	1.271	1.138	11.41
88)	Benzo(b)fluora...	1.321	1.257	1.295	1.334	1.247	1.223	1.230	1.272	3.48
89)	Benzo(k)fluora...	1.317	1.332	1.424	1.289	1.177	1.219	1.071	1.261	9.17
90) C	Benzo(a)pyrene	1.181	1.145	1.203	1.202	1.127	1.150	1.099	1.158	3.37
91)	Dibenzo(a,h)an...	0.856	0.786	0.885	1.022	0.980	1.065	1.047	0.949	11.27
92)	Benzo(g,h,i)pe...	0.827	0.732	0.853	1.005	0.989	1.077	1.075	0.937	14.29

(#) = Out of Range

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: BNA_F Calibration Date/Time: 04/28/2023 09:45

Lab File ID: BF133113.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.324	1.213		-8.4	
Benzaldehyde	0.791	0.737		-6.8	
Phenol-d6	1.643	1.516		-7.7	
Phenol	1.813	1.635		-9.8	20.0
bis(2-Chloroethyl)ether	1.360	1.219		-10.4	
2-Chlorophenol	1.344	1.249		-7.1	
2-Methylphenol	1.231	1.193		-3.1	
2,2-oxybis(1-Chloropropane)	2.363	1.957		-17.2	
Acetophenone	0.463	0.435		-6.0	
3+4-Methylphenols	1.450	1.373		-5.3	
n-Nitroso-di-n-propylamine	1.023	0.877	0.050	-14.3	
Nitrobenzene-d5	0.371	0.349		-5.9	
Hexachloroethane	0.498	0.459		-7.8	
Nitrobenzene	0.375	0.352		-6.1	
Isophorone	0.704	0.647		-8.1	
2-Nitrophenol	0.181	0.188		3.9	20.0
2,4-Dimethylphenol	0.311	0.299		-3.9	
bis(2-Chloroethoxy)methane	0.416	0.373		-10.3	
2,4-Dichlorophenol	0.283	0.276		-2.5	20.0
Naphthalene	1.000	0.944		-5.6	
4-Chloroaniline	0.404	0.411		1.7	
Hexachlorobutadiene	0.162	0.153		-5.6	20.0
Caprolactam	0.095	0.096		1.1	
4-Chloro-3-methylphenol	0.305	0.300		-1.6	20.0
2-Methylnaphthalene	0.684	0.643		-6.0	
Hexachlorocyclopentadiene	0.314	0.293	0.050	-6.7	
2,4,6-Trichlorophenol	0.372	0.357		-4.0	20.0
2-Fluorobiphenyl	1.195	1.143		-4.4	
2,4,5-Trichlorophenol	0.430	0.417		-3.0	
1,1-Biphenyl	1.586	1.462		-7.8	
2-Chloronaphthalene	1.161	1.082		-6.8	
2-Nitroaniline	0.384	0.363		-5.5	
Dimethylphthalate	1.395	1.316		-5.7	
Acenaphthylene	1.855	1.739		-6.3	
2,6-Dinitrotoluene	0.314	0.309		-1.6	
3-Nitroaniline	0.373	0.366		-1.9	
Acenaphthene	1.242	1.177		-5.2	20.0
2,4-Dinitrophenol	0.158	0.170	0.050	7.6	
4-Nitrophenol	0.289	0.275	0.050	-4.8	
Dibenzofuran	1.695	1.575		-7.1	
2,4-Dinitrotoluene	0.400	0.408		2.0	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: BNA_F Calibration Date/Time: 04/28/2023 09:45

Lab File ID: BF133113.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.317	1.232		-6.5	
4-Chlorophenyl-phenylether	0.605	0.570		-5.8	
Fluorene	1.241	1.176		-5.2	
4-Nitroaniline	0.343	0.363		5.8	
4,6-Dinitro-2-methylphenol	0.121	0.133		9.9	
n-Nitrosodiphenylamine	0.649	0.598		-7.9	20.0
2,4,6-Tribromophenol	0.201	0.201		0.0	
4-Bromophenyl-phenylether	0.217	0.197		-9.2	
Hexachlorobenzene	0.222	0.210		-5.4	
Atrazine	0.187	0.182		-2.7	
Pentachlorophenol	0.158	0.150		-5.1	20.0
Phenanthrene	1.075	0.979		-8.9	
Anthracene	1.100	1.001		-9.0	
Carbazole	0.980	0.916		-6.5	
Di-n-butylphthalate	1.109	1.047		-5.6	
Fluoranthene	1.079	1.007		-6.7	20.0
Pyrene	1.714	1.572		-8.3	
Terphenyl-d14	1.160	1.041		-10.3	
Butylbenzylphthalate	0.607	0.658		8.4	
3,3-Dichlorobenzidine	0.380	0.409		7.6	
Benzo(a)anthracene	1.375	1.249		-9.2	
Chrysene	1.375	1.254		-8.8	
Bis(2-ethylhexyl)phthalate	0.762	0.755		-0.9	
Di-n-octyl phthalate	1.242	1.288		3.7	20.0
Benzo(b)fluoranthene	1.272	1.240		-2.5	
Benzo(k)fluoranthene	1.261	1.126		-10.7	
Benzo(a)pyrene	1.158	1.084		-6.4	20.0
Indeno(1,2,3-cd)pyrene	1.138	1.146		0.7	
Dibenzo(a,h)anthracene	0.949	0.947		-0.2	
Benzo(g,h,i)perylene	0.937	0.954		1.8	
1,2,4,5-Tetrachlorobenzene	0.538	0.499		-7.2	
1,4-Dioxane	0.614	0.550		-10.4	20.0
2,3,4,6-Tetrachlorophenol	0.333	0.310		-6.9	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: BNA_F Calibration Date/Time: 05/01/2023 10:41

Lab File ID: BF133147.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.324	1.247		-5.8	
Benzaldehyde	0.791	0.752		-4.9	
Phenol-d6	1.643	1.550		-5.7	
Phenol	1.813	1.675		-7.6	20.0
bis(2-Chloroethyl)ether	1.360	1.268		-6.8	
2-Chlorophenol	1.344	1.290		-4.0	
2-Methylphenol	1.231	1.195		-2.9	
2,2-oxybis(1-Chloropropane)	2.363	2.033		-14.0	
Acetophenone	0.463	0.431		-6.9	
3+4-Methylphenols	1.450	1.342		-7.4	
n-Nitroso-di-n-propylamine	1.023	0.874	0.050	-14.6	
Nitrobenzene-d5	0.371	0.348		-6.2	
Hexachloroethane	0.498	0.469		-5.8	
Nitrobenzene	0.375	0.354		-5.6	
Isophorone	0.704	0.652		-7.4	
2-Nitrophenol	0.181	0.188		3.9	20.0
2,4-Dimethylphenol	0.311	0.301		-3.2	
bis(2-Chloroethoxy)methane	0.416	0.383		-7.9	
2,4-Dichlorophenol	0.283	0.275		-2.8	20.0
Naphthalene	1.000	0.943		-5.7	
4-Chloroaniline	0.404	0.412		2.0	
Hexachlorobutadiene	0.162	0.152		-6.2	20.0
Caprolactam	0.095	0.096		1.1	
4-Chloro-3-methylphenol	0.305	0.300		-1.6	20.0
2-Methylnaphthalene	0.684	0.638		-6.7	
Hexachlorocyclopentadiene	0.314	0.290	0.050	-7.6	
2,4,6-Trichlorophenol	0.372	0.353		-5.1	20.0
2-Fluorobiphenyl	1.195	1.110		-7.1	
2,4,5-Trichlorophenol	0.430	0.413		-4.0	
1,1-Biphenyl	1.586	1.458		-8.1	
2-Chloronaphthalene	1.161	1.089		-6.2	
2-Nitroaniline	0.384	0.364		-5.2	
Dimethylphthalate	1.395	1.310		-6.1	
Acenaphthylene	1.855	1.719		-7.3	
2,6-Dinitrotoluene	0.314	0.304		-3.2	
3-Nitroaniline	0.373	0.366		-1.9	
Acenaphthene	1.242	1.165		-6.2	20.0
2,4-Dinitrophenol	0.158	0.167	0.050	5.7	
4-Nitrophenol	0.289	0.277	0.050	-4.2	
Dibenzofuran	1.695	1.563		-7.8	
2,4-Dinitrotoluene	0.400	0.394		-1.5	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: BNA_F Calibration Date/Time: 05/01/2023 10:41

Lab File ID: BF133147.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.317	1.153		-12.5	
4-Chlorophenyl-phenylether	0.605	0.537		-11.2	
Fluorene	1.241	1.098		-11.5	
4-Nitroaniline	0.343	0.348		1.5	
4,6-Dinitro-2-methylphenol	0.121	0.130		7.4	
n-Nitrosodiphenylamine	0.649	0.608		-6.3	20.0
2,4,6-Tribromophenol	0.201	0.186		-7.5	
4-Bromophenyl-phenylether	0.217	0.203		-6.5	
Hexachlorobenzene	0.222	0.214		-3.6	
Atrazine	0.187	0.181		-3.2	
Pentachlorophenol	0.158	0.156		-1.3	20.0
Phenanthrene	1.075	1.000		-7.0	
Anthracene	1.100	1.030		-6.4	
Carbazole	0.980	0.925		-5.6	
Di-n-butylphthalate	1.109	1.065		-4.0	
Fluoranthene	1.079	1.037		-3.9	20.0
Pyrene	1.714	1.573		-8.2	
Terphenyl-d14	1.160	1.029		-11.3	
Butylbenzylphthalate	0.607	0.643		5.9	
3,3-Dichlorobenzidine	0.380	0.394		3.7	
Benzo(a)anthracene	1.375	1.271		-7.6	
Chrysene	1.375	1.286		-6.5	
Bis(2-ethylhexyl)phthalate	0.762	0.778		2.1	
Di-n-octyl phthalate	1.242	1.340		7.9	20.0
Benzo(b)fluoranthene	1.272	1.182		-7.1	
Benzo(k)fluoranthene	1.261	1.204		-4.5	
Benzo(a)pyrene	1.158	1.096		-5.4	20.0
Indeno(1,2,3-cd)pyrene	1.138	1.118		-1.8	
Dibenzo(a,h)anthracene	0.949	0.933		-1.7	
Benzo(g,h,i)perylene	0.937	0.949		1.3	
1,2,4,5-Tetrachlorobenzene	0.538	0.491		-8.7	
1,4-Dioxane	0.614	0.578		-5.9	20.0
2,3,4,6-Tetrachlorophenol	0.333	0.301		-9.6	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: BNA_F Calibration Date/Time: 05/01/2023 15:25

Lab File ID: BF133156.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	$\overline{RRF}$	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.324	1.266		-4.4	
Benzaldehyde	0.791	0.766		-3.2	
Phenol-d6	1.643	1.586		-3.5	
Phenol	1.813	1.695		-6.5	20.0
bis(2-Chloroethyl)ether	1.360	1.281		-5.8	
2-Chlorophenol	1.344	1.302		-3.1	
2-Methylphenol	1.231	1.183		-3.9	
2,2-oxybis(1-Chloropropane)	2.363	2.102		-11.0	
Acetophenone	0.463	0.440		-5.0	
3+4-Methylphenols	1.450	1.379		-4.9	
n-Nitroso-di-n-propylamine	1.023	0.897	0.050	-12.3	
Nitrobenzene-d5	0.371	0.357		-3.8	
Hexachloroethane	0.498	0.480		-3.6	
Nitrobenzene	0.375	0.363		-3.2	
Isophorone	0.704	0.663		-5.8	
2-Nitrophenol	0.181	0.188		3.9	20.0
2,4-Dimethylphenol	0.311	0.301		-3.2	
bis(2-Chloroethoxy)methane	0.416	0.393		-5.5	
2,4-Dichlorophenol	0.283	0.281		-0.7	20.0
Naphthalene	1.000	0.961		-3.9	
4-Chloroaniline	0.404	0.422		4.5	
Hexachlorobutadiene	0.162	0.158		-2.5	20.0
Caprolactam	0.095	0.100		5.3	
4-Chloro-3-methylphenol	0.305	0.304		-0.3	20.0
2-Methylnaphthalene	0.684	0.664		-2.9	
Hexachlorocyclopentadiene	0.314	0.297	0.050	-5.4	
2,4,6-Trichlorophenol	0.372	0.364		-2.2	20.0
2-Fluorobiphenyl	1.195	1.159		-3.0	
2,4,5-Trichlorophenol	0.430	0.426		-0.9	
1,1-Biphenyl	1.586	1.520		-4.2	
2-Chloronaphthalene	1.161	1.121		-3.4	
2-Nitroaniline	0.384	0.387		0.8	
Dimethylphthalate	1.395	1.346		-3.5	
Acenaphthylene	1.855	1.818		-2.0	
2,6-Dinitrotoluene	0.314	0.315		0.3	
3-Nitroaniline	0.373	0.382		2.4	
Acenaphthene	1.242	1.096		-11.8	20.0
2,4-Dinitrophenol	0.158	0.171	0.050	8.2	
4-Nitrophenol	0.289	0.274	0.050	-5.2	
Dibenzofuran	1.695	1.599		-5.7	
2,4-Dinitrotoluene	0.400	0.409		2.3	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: BNA_F Calibration Date/Time: 05/01/2023 15:25

Lab File ID: BF133156.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.317	1.220		-7.4	
4-Chlorophenyl-phenylether	0.605	0.565		-6.6	
Fluorene	1.241	1.157		-6.8	
4-Nitroaniline	0.343	0.357		4.1	
4,6-Dinitro-2-methylphenol	0.121	0.134		10.7	
n-Nitrosodiphenylamine	0.649	0.617		-4.9	20.0
2,4,6-Tribromophenol	0.201	0.201		0.0	
4-Bromophenyl-phenylether	0.217	0.210		-3.2	
Hexachlorobenzene	0.222	0.220		-0.9	
Atrazine	0.187	0.187		0.0	
Pentachlorophenol	0.158	0.157		-0.6	20.0
Phenanthrene	1.075	1.017		-5.4	
Anthracene	1.100	1.053		-4.3	
Carbazole	0.980	0.945		-3.6	
Di-n-butylphthalate	1.109	1.096		-1.2	
Fluoranthene	1.079	1.048		-2.9	20.0
Pyrene	1.714	1.636		-4.6	
Terphenyl-d14	1.160	1.108		-4.5	
Butylbenzylphthalate	0.607	0.715		17.8	
3,3-Dichlorobenzidine	0.380	0.414		8.9	
Benzo(a)anthracene	1.375	1.286		-6.5	
Chrysene	1.375	1.317		-4.2	
Bis(2-ethylhexyl)phthalate	0.762	0.811		6.4	
Di-n-octyl phthalate	1.242	1.301		4.8	20.0
Benzo(b)fluoranthene	1.272	1.253		-1.5	
Benzo(k)fluoranthene	1.261	1.182		-6.3	
Benzo(a)pyrene	1.158	1.123		-3.0	20.0
Indeno(1,2,3-cd)pyrene	1.138	1.198		5.3	
Dibenzo(a,h)anthracene	0.949	0.998		5.2	
Benzo(g,h,i)perylene	0.937	1.018		8.6	
1,2,4,5-Tetrachlorobenzene	0.538	0.504		-6.3	
1,4-Dioxane	0.614	0.601		-2.1	20.0
2,3,4,6-Tetrachlorophenol	0.333	0.321		-3.6	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: BNA_F Calibration Date/Time: 05/02/2023 09:54

Lab File ID: BF133179.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	$\overline{RRF}$	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.324	1.272		-3.9	
Benzaldehyde	0.791	0.765		-3.3	
Phenol-d6	1.643	1.555		-5.4	
Phenol	1.813	1.666		-8.1	20.0
bis(2-Chloroethyl)ether	1.360	1.266		-6.9	
2-Chlorophenol	1.344	1.295		-3.6	
2-Methylphenol	1.231	1.158		-5.9	
2,2-oxybis(1-Chloropropane)	2.363	2.046		-13.4	
Acetophenone	0.463	0.435		-6.0	
3+4-Methylphenols	1.450	1.351		-6.8	
n-Nitroso-di-n-propylamine	1.023	0.856	0.050	-16.3	
Nitrobenzene-d5	0.371	0.350		-5.7	
Hexachloroethane	0.498	0.468		-6.0	
Nitrobenzene	0.375	0.361		-3.7	
Isophorone	0.704	0.645		-8.4	
2-Nitrophenol	0.181	0.187		3.3	20.0
2,4-Dimethylphenol	0.311	0.300		-3.5	
bis(2-Chloroethoxy)methane	0.416	0.382		-8.2	
2,4-Dichlorophenol	0.283	0.278		-1.8	20.0
Naphthalene	1.000	0.957		-4.3	
4-Chloroaniline	0.404	0.419		3.7	
Hexachlorobutadiene	0.162	0.155		-4.3	20.0
Caprolactam	0.095	0.100		5.3	
4-Chloro-3-methylphenol	0.305	0.299		-2.0	20.0
2-Methylnaphthalene	0.684	0.645		-5.7	
Hexachlorocyclopentadiene	0.314	0.286	0.050	-8.9	
2,4,6-Trichlorophenol	0.372	0.364		-2.2	20.0
2-Fluorobiphenyl	1.195	1.150		-3.8	
2,4,5-Trichlorophenol	0.430	0.419		-2.6	
1,1-Biphenyl	1.586	1.516		-4.4	
2-Chloronaphthalene	1.161	1.119		-3.6	
2-Nitroaniline	0.384	0.385		0.3	
Dimethylphthalate	1.395	1.356		-2.8	
Acenaphthylene	1.855	1.819		-1.9	
2,6-Dinitrotoluene	0.314	0.311		-1.0	
3-Nitroaniline	0.373	0.393		5.4	
Acenaphthene	1.242	1.207		-2.8	20.0
2,4-Dinitrophenol	0.158	0.168	0.050	6.3	
4-Nitrophenol	0.289	0.292	0.050	1.0	
Dibenzofuran	1.695	1.646		-2.9	
2,4-Dinitrotoluene	0.400	0.424		6.0	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: BNA_F Calibration Date/Time: 05/02/2023 09:54

Lab File ID: BF133179.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.317	1.299		-1.4	
4-Chlorophenyl-phenylether	0.605	0.577		-4.6	
Fluorene	1.241	1.213		-2.3	
4-Nitroaniline	0.343	0.395		15.2	
4,6-Dinitro-2-methylphenol	0.121	0.133		9.9	
n-Nitrosodiphenylamine	0.649	0.611		-5.9	20.0
2,4,6-Tribromophenol	0.201	0.198		-1.5	
4-Bromophenyl-phenylether	0.217	0.203		-6.5	
Hexachlorobenzene	0.222	0.212		-4.5	
Atrazine	0.187	0.190		1.6	
Pentachlorophenol	0.158	0.150		-5.1	20.0
Phenanthrene	1.075	1.010		-6.0	
Anthracene	1.100	1.055		-4.1	
Carbazole	0.980	0.971		-0.9	
Di-n-butylphthalate	1.109	1.131		2.0	
Fluoranthene	1.079	1.081		0.2	20.0
Pyrene	1.714	1.554		-9.3	
Terphenyl-d14	1.160	1.016		-12.4	
Butylbenzylphthalate	0.607	0.682		12.4	
3,3-Dichlorobenzidine	0.380	0.421		10.8	
Benzo(a)anthracene	1.375	1.256		-8.7	
Chrysene	1.375	1.273		-7.4	
Bis(2-ethylhexyl)phthalate	0.762	0.769		0.9	
Di-n-octyl phthalate	1.242	1.349		8.6	20.0
Benzo(b)fluoranthene	1.272	1.291		1.5	
Benzo(k)fluoranthene	1.261	1.137		-9.8	
Benzo(a)pyrene	1.158	1.110		-4.1	20.0
Indeno(1,2,3-cd)pyrene	1.138	1.138		0.0	
Dibenzo(a,h)anthracene	0.949	0.939		-1.1	
Benzo(g,h,i)perylene	0.937	0.948		1.2	
1,2,4,5-Tetrachlorobenzene	0.538	0.512		-4.8	
1,4-Dioxane	0.614	0.587		-4.4	20.0
2,3,4,6-Tetrachlorophenol	0.333	0.332		-0.3	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

CHEMTECH
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LAB CHRONICLE

OrderID:	O2521	**OrderDate:**	4/27/2023 8:52:00 AM
Client:	GEI Consultants, Inc., P.C.	**Project:**	Ferry Point
Contact:	Stacey Ng	**Location:**	M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O2521-01	**GMW-1**	**Water**			**04/26/23**			**04/26/23**
			Mercury	7470A		04/28/23	04/28/23	
			Metals ICP-TAL	6010D		05/03/23	05/03/23	
O2521-02	**GMW-1**	**Water**			**04/26/23**			**04/26/23**
			Dissolved ICP-TAL Metals	6010D		05/03/23	05/03/23	
			Dissolved Mercury	7470A		05/02/23	05/02/23	
O2521-03	**PZ-15**	**Water**			**04/26/23**			**04/26/23**
			Mercury	7470A		04/28/23	04/28/23	
			Metals ICP-TAL	6010D		05/03/23	05/03/23	
O2521-04	**PZ-15**	**Water**			**04/26/23**			**04/26/23**
			Dissolved ICP-TAL Metals	6010D		05/03/23	05/03/23	
			Dissolved Mercury	7470A		05/02/23	05/02/23	
O2521-05	**GMW-10**	**Water**			**04/26/23**			**04/26/23**
			Mercury	7470A		04/28/23	04/28/23	
			Metals ICP-TAL	6010D		05/03/23	05/04/23	
O2521-06	**GMW-10**	**Water**			**04/26/23**			**04/26/23**
			Dissolved ICP-TAL Metals	6010D		05/03/23	05/04/23	
			Dissolved Mercury	7470A		05/02/23	05/02/23	
O2521-07	**GMW-7**	**Water**			**04/26/23**			**04/26/23**
			Mercury	7470A		04/28/23	04/28/23	
			Metals ICP-TAL	6010D		05/03/23	05/04/23	
O2521-08	**GMW-7**	**Water**			**04/26/23**			**04/26/23**
			Dissolved ICP-TAL Metals	6010D		05/03/23	05/04/23	
			Dissolved Mercury	7470A		05/02/23	05/02/23	
O2521-14	**FB**	**Water**			**04/26/23**			**04/26/23**
			Mercury	7470A		04/28/23	04/28/23	

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LAB CHRONICLE

			Metals ICP-TAL	6010D		05/03/23	05/04/23	
O2521-15	**FB**	**Water**			**04/26/23**			**04/26/23**
			Dissolved ICP-TAL Metals	6010D		05/03/23	05/11/23	
			Dissolved Mercury	7470A		05/02/23	05/02/23	

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Hit Summary Sheet
SW-846

SDG No.: O2521 **Order ID:** O2521

Client: GEI Consultants, Inc., P.C. **Project ID:** Ferry Point

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**GMW-1**							
O2521-01	GMW-1	Water	Aluminum	693		28.3	50.0	ug/L
O2521-01	GMW-1	Water	Antimony	2.29	J	2.06	25.0	ug/L
O2521-01	GMW-1	Water	Barium	2370		3.92	50.0	ug/L
O2521-01	GMW-1	Water	Beryllium	0.29	J	0.13	3.00	ug/L
O2521-01	GMW-1	Water	Cadmium	1.11	J	0.10	3.00	ug/L
O2521-01	GMW-1	Water	Calcium	123000		47.7	1000	ug/L
O2521-01	GMW-1	Water	Chromium	6.13		0.80	5.00	ug/L
O2521-01	GMW-1	Water	Cobalt	1.49	J	0.40	15.0	ug/L
O2521-01	GMW-1	Water	Copper	34.4		7.07	10.0	ug/L
O2521-01	GMW-1	Water	Iron	26700		18.5	50.0	ug/L
O2521-01	GMW-1	Water	Lead	45.7		3.51	6.00	ug/L
O2521-01	GMW-1	Water	Magnesium	27400		36.0	1000	ug/L
O2521-01	GMW-1	Water	Manganese	174		0.68	10.0	ug/L
O2521-01	GMW-1	Water	Mercury	0.21		0.078	0.20	ug/L
O2521-01	GMW-1	Water	Nickel	4.98	J	0.85	20.0	ug/L
O2521-01	GMW-1	Water	Potassium	23900		685	1000	ug/L
O2521-01	GMW-1	Water	Silver	4.96	J	0.66	5.00	ug/L
O2521-01	GMW-1	Water	Sodium	60900		237	1000	ug/L
O2521-01	GMW-1	Water	Vanadium	24.0		3.01	20.0	ug/L
O2521-01	GMW-1	Water	Zinc	98.8		1.75	20.0	ug/L
O2521-01	GMW-1	Water	Hardness, Total	420000		267	6620	ug/L
Client ID :	**GMW-1**							
O2521-02	GMW-1	Water	Aluminum	141		28.3	50.0	ug/L
O2521-02	GMW-1	Water	Barium	1630		3.92	50.0	ug/L
O2521-02	GMW-1	Water	Cadmium	0.11	J	0.10	3.00	ug/L
O2521-02	GMW-1	Water	Calcium	104000		47.7	1000	ug/L
O2521-02	GMW-1	Water	Chromium	1.11	J	0.80	5.00	ug/L
O2521-02	GMW-1	Water	Cobalt	0.47	J	0.40	15.0	ug/L
O2521-02	GMW-1	Water	Copper	35.7		7.07	10.0	ug/L
O2521-02	GMW-1	Water	Iron	361		18.5	50.0	ug/L
O2521-02	GMW-1	Water	Magnesium	30100		36.0	1000	ug/L
O2521-02	GMW-1	Water	Manganese	76.3		0.68	10.0	ug/L
O2521-02	GMW-1	Water	Nickel	2.49	J	0.85	20.0	ug/L
O2521-02	GMW-1	Water	Potassium	27200		685	1000	ug/L
O2521-02	GMW-1	Water	Silver	0.70	J	0.66	5.00	ug/L
O2521-02	GMW-1	Water	Sodium	69800		237	1000	ug/L
O2521-02	GMW-1	Water	Zinc	10.9	J	1.75	20.0	ug/L
Client ID :	**PZ-15**							

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Hit Summary Sheet
SW-846

SDG No.: O2521 **Order ID:** O2521

Client: GEI Consultants, Inc., P.C. **Project ID:** Ferry Point

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
O2521-03	PZ-15	Water	Aluminum	140000		28.3	50.0	ug/L
O2521-03	PZ-15	Water	Arsenic	15.2		3.48	10.0	ug/L
O2521-03	PZ-15	Water	Barium	2260		3.92	50.0	ug/L
O2521-03	PZ-15	Water	Beryllium	6.60		0.13	3.00	ug/L
O2521-03	PZ-15	Water	Cadmium	11.9		0.10	3.00	ug/L
O2521-03	PZ-15	Water	Calcium	137000		47.7	1000	ug/L
O2521-03	PZ-15	Water	Chromium	369		0.80	5.00	ug/L
O2521-03	PZ-15	Water	Cobalt	170		0.40	15.0	ug/L
O2521-03	PZ-15	Water	Copper	293		7.07	10.0	ug/L
O2521-03	PZ-15	Water	Iron	239000		18.5	50.0	ug/L
O2521-03	PZ-15	Water	Lead	170		3.51	6.00	ug/L
O2521-03	PZ-15	Water	Magnesium	69900		36.0	1000	ug/L
O2521-03	PZ-15	Water	Manganese	8080		0.68	10.0	ug/L
O2521-03	PZ-15	Water	Mercury	0.87		0.078	0.20	ug/L
O2521-03	PZ-15	Water	Nickel	564		0.85	20.0	ug/L
O2521-03	PZ-15	Water	Potassium	47000		685	1000	ug/L
O2521-03	PZ-15	Water	Selenium	5.90	J	5.88	10.0	ug/L
O2521-03	PZ-15	Water	Silver	37.9		0.66	5.00	ug/L
O2521-03	PZ-15	Water	Sodium	29800		237	1000	ug/L
O2521-03	PZ-15	Water	Vanadium	313		3.01	20.0	ug/L
O2521-03	PZ-15	Water	Zinc	519		1.75	20.0	ug/L
O2521-03	PZ-15	Water	Hardness, Total	630000		267	6620	ug/L
Client ID :	**PZ-15**							
O2521-04	PZ-15	Water	Aluminum	80.5		28.3	50.0	ug/L
O2521-04	PZ-15	Water	Barium	291		3.92	50.0	ug/L
O2521-04	PZ-15	Water	Calcium	61300		47.7	1000	ug/L
O2521-04	PZ-15	Water	Cobalt	2.49	J	0.40	15.0	ug/L
O2521-04	PZ-15	Water	Copper	10.4		7.07	10.0	ug/L
O2521-04	PZ-15	Water	Iron	62.4		18.5	50.0	ug/L
O2521-04	PZ-15	Water	Magnesium	43700		36.0	1000	ug/L
O2521-04	PZ-15	Water	Manganese	41.7		0.68	10.0	ug/L
O2521-04	PZ-15	Water	Nickel	14.0	J	0.85	20.0	ug/L
O2521-04	PZ-15	Water	Potassium	30900		685	1000	ug/L
O2521-04	PZ-15	Water	Silver	0.81	J	0.66	5.00	ug/L
O2521-04	PZ-15	Water	Sodium	36400		237	1000	ug/L
O2521-04	PZ-15	Water	Zinc	4.22	J	1.75	20.0	ug/L
Client ID :	**GMW-10**							
O2521-05	GMW-10	Water	Aluminum	561		28.3	50.0	ug/L
O2521-05	GMW-10	Water	Antimony	2.86	J	2.06	25.0	ug/L
O2521-05	GMW-10	Water	Arsenic	6.65	J	3.48	10.0	ug/L
O2521-05	GMW-10	Water	Barium	392		3.92	50.0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: O2521 **Order ID:** O2521

Client: GEI Consultants, Inc., P.C. **Project ID:** Ferry Point

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
O2521-05	GMW-10	Water	Beryllium	0.20	J	0.13	3.00	ug/L
O2521-05	GMW-10	Water	Cadmium	0.70	J	0.10	3.00	ug/L
O2521-05	GMW-10	Water	Calcium	153000		47.7	1000	ug/L
O2521-05	GMW-10	Water	Chromium	3.09	J	0.80	5.00	ug/L
O2521-05	GMW-10	Water	Cobalt	1.45	J	0.40	15.0	ug/L
O2521-05	GMW-10	Water	Copper	58.8		7.07	10.0	ug/L
O2521-05	GMW-10	Water	Iron	16500		18.5	50.0	ug/L
O2521-05	GMW-10	Water	Lead	66.0		3.51	6.00	ug/L
O2521-05	GMW-10	Water	Magnesium	23700		36.0	1000	ug/L
O2521-05	GMW-10	Water	Manganese	894		0.68	10.0	ug/L
O2521-05	GMW-10	Water	Nickel	12.2	J	0.85	20.0	ug/L
O2521-05	GMW-10	Water	Potassium	35300		685	1000	ug/L
O2521-05	GMW-10	Water	Sodium	14400		237	1000	ug/L
O2521-05	GMW-10	Water	Vanadium	22.1		3.01	20.0	ug/L
O2521-05	GMW-10	Water	Zinc	86.0		1.75	20.0	ug/L
O2521-05	GMW-10	Water	Hardness, Total	480000		267	6620	ug/L
Client ID :	**GMW-10**							
O2521-06	GMW-10	Water	Aluminum	147		28.3	50.0	ug/L
O2521-06	GMW-10	Water	Barium	320		3.92	50.0	ug/L
O2521-06	GMW-10	Water	Cadmium	0.11	J	0.10	3.00	ug/L
O2521-06	GMW-10	Water	Calcium	146000		47.7	1000	ug/L
O2521-06	GMW-10	Water	Copper	23.9		7.07	10.0	ug/L
O2521-06	GMW-10	Water	Iron	27.0	J	18.5	50.0	ug/L
O2521-06	GMW-10	Water	Magnesium	23900		36.0	1000	ug/L
O2521-06	GMW-10	Water	Manganese	702		0.68	10.0	ug/L
O2521-06	GMW-10	Water	Nickel	8.11	J	0.85	20.0	ug/L
O2521-06	GMW-10	Water	Potassium	35200		685	1000	ug/L
O2521-06	GMW-10	Water	Sodium	15500		237	1000	ug/L
O2521-06	GMW-10	Water	Zinc	17.0	J	1.75	20.0	ug/L
Client ID :	**GMW-7**							
O2521-07	GMW-7	Water	Aluminum	2230		28.3	50.0	ug/L
O2521-07	GMW-7	Water	Antimony	2.16	J	2.06	25.0	ug/L
O2521-07	GMW-7	Water	Barium	290		3.92	50.0	ug/L
O2521-07	GMW-7	Water	Cadmium	1.47	J	0.10	3.00	ug/L
O2521-07	GMW-7	Water	Calcium	145000		47.7	1000	ug/L
O2521-07	GMW-7	Water	Chromium	9.98		0.80	5.00	ug/L
O2521-07	GMW-7	Water	Cobalt	2.59	J	0.40	15.0	ug/L
O2521-07	GMW-7	Water	Copper	61.7		7.07	10.0	ug/L
O2521-07	GMW-7	Water	Iron	4730		18.5	50.0	ug/L
O2521-07	GMW-7	Water	Lead	49.5		3.51	6.00	ug/L
O2521-07	GMW-7	Water	Magnesium	26900		36.0	1000	ug/L

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Hit Summary Sheet
SW-846

SDG No.: O2521 **Order ID:** O2521

Client: GEI Consultants, Inc., P.C. **Project ID:** Ferry Point

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
O2521-07	GMW-7	Water	Manganese	249		0.68	10.0	ug/L
O2521-07	GMW-7	Water	Mercury	0.083	J	0.078	0.20	ug/L
O2521-07	GMW-7	Water	Nickel	20.0		0.85	20.0	ug/L
O2521-07	GMW-7	Water	Potassium	20900		685	1000	ug/L
O2521-07	GMW-7	Water	Sodium	32800		237	1000	ug/L
O2521-07	GMW-7	Water	Vanadium	4.55	J	3.01	20.0	ug/L
O2521-07	GMW-7	Water	Zinc	185		1.75	20.0	ug/L
O2521-07	GMW-7	Water	Hardness, Total	473000		267	6620	ug/L
Client ID :	**GMW-7**							
O2521-08	GMW-7	Water	Aluminum	145		28.3	50.0	ug/L
O2521-08	GMW-7	Water	Barium	233		3.92	50.0	ug/L
O2521-08	GMW-7	Water	Cadmium	0.23	J	0.10	3.00	ug/L
O2521-08	GMW-7	Water	Calcium	137000		47.7	1000	ug/L
O2521-08	GMW-7	Water	Cobalt	0.84	J	0.40	15.0	ug/L
O2521-08	GMW-7	Water	Copper	22.3		7.07	10.0	ug/L
O2521-08	GMW-7	Water	Iron	24.9	J	18.5	50.0	ug/L
O2521-08	GMW-7	Water	Magnesium	25800		36.0	1000	ug/L
O2521-08	GMW-7	Water	Manganese	207		0.68	10.0	ug/L
O2521-08	GMW-7	Water	Nickel	8.17	J	0.85	20.0	ug/L
O2521-08	GMW-7	Water	Potassium	20500		685	1000	ug/L
O2521-08	GMW-7	Water	Sodium	32800		237	1000	ug/L
O2521-08	GMW-7	Water	Zinc	70.2		1.75	20.0	ug/L
Client ID :	**FB**							
O2521-14	FB	Water	Calcium	50.4	J	47.7	1000	ug/L
O2521-14	FB	Water	Chromium	0.85	J	0.80	5.00	ug/L
O2521-14	FB	Water	Manganese	0.88	J	0.68	10.0	ug/L
O2521-14	FB	Water	Sodium	240	J	237	1000	ug/L
O2521-14	FB	Water	Zinc	2.17	J	1.75	20.0	ug/L
Client ID :	**FB**							
O2521-15	FB	Water	Barium	9.56	J	3.92	50.0	ug/L
O2521-15	FB	Water	Cadmium	0.28	J	0.10	3.00	ug/L
O2521-15	FB	Water	Calcium	1900		47.7	1000	ug/L
O2521-15	FB	Water	Iron	32.2	J	18.5	50.0	ug/L
O2521-15	FB	Water	Magnesium	41.9	J	36.0	1000	ug/L
O2521-15	FB	Water	Manganese	31.6		0.68	10.0	ug/L
O2521-15	FB	Water	Sodium	763	J	237	1000	ug/L
O2521-15	FB	Water	Zinc	21.4		1.75	20.0	ug/L

SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1	SDG No.:	O2521
Lab Sample ID:	O2521-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	693	N	1	28.3	50.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-36-0	Antimony	2.29	J	1	2.06	25.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-39-3	Barium	2370	N	1	3.92	50.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-41-7	Beryllium	0.29	J	1	0.13	3.00	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-43-9	Cadmium	1.11	J	1	0.10	3.00	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-70-2	Calcium	123000		1	47.7	1000	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-47-3	Chromium	6.13		1	0.80	5.00	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-48-4	Cobalt	1.49	J	1	0.40	15.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-50-8	Copper	34.4		1	7.07	10.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
Hardness	Hardness, Total	420000		1	267	6620	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7439-89-6	Iron	26700	N	1	18.5	50.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7439-92-1	Lead	45.7		1	3.51	6.00	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7439-95-4	Magnesium	27400		1	36.0	1000	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7439-96-5	Manganese	174	N	1	0.68	10.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7439-97-6	Mercury	0.21		1	0.078	0.20	ug/L	04/28/23 10:35	04/28/23 13:52	SW7470A	
7440-02-0	Nickel	4.98	J	1	0.85	20.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-09-7	Potassium	23900		1	685	1000	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-22-4	Silver	4.96	J	1	0.66	5.00	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-23-5	Sodium	60900		1	237	1000	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-62-2	Vanadium	24.0		1	3.01	20.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-66-6	Zinc	98.8	N	1	1.75	20.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1	SDG No.:	O2521
Lab Sample ID:	O2521-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	141	N	1	28.3	50.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-39-3	Barium	1630	N	1	3.92	50.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-43-9	Cadmium	0.11	J	1	0.10	3.00	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-70-2	Calcium	104000		1	47.7	1000	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-47-3	Chromium	1.11	J	1	0.80	5.00	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-48-4	Cobalt	0.47	J	1	0.40	15.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-50-8	Copper	35.7		1	7.07	10.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7439-89-6	Iron	361	N	1	18.5	50.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7439-95-4	Magnesium	30100		1	36.0	1000	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7439-96-5	Manganese	76.3	N	1	0.68	10.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	05/02/23 13:30	05/02/23 16:42	SW7470A	
7440-02-0	Nickel	2.49	J	1	0.85	20.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-09-7	Potassium	27200		1	685	1000	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-22-4	Silver	0.70	J	1	0.66	5.00	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-23-5	Sodium	69800		1	237	1000	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-62-2	Vanadium	20.0	U	1	3.01	20.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-66-6	Zinc	10.9	JN	1	1.75	20.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15	SDG No.:	O2521
Lab Sample ID:	O2521-03	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	140000	N	1	28.3	50.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-38-2	Arsenic	15.2		1	3.48	10.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-39-3	Barium	2260	N	1	3.92	50.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-41-7	Beryllium	6.60		1	0.13	3.00	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-43-9	Cadmium	11.9		1	0.10	3.00	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-70-2	Calcium	137000		1	47.7	1000	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-47-3	Chromium	369		1	0.80	5.00	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-48-4	Cobalt	170		1	0.40	15.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-50-8	Copper	293		1	7.07	10.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
Hardness	Hardness, Total	630000		1	267	6620	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7439-89-6	Iron	239000	N	1	18.5	50.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7439-92-1	Lead	170		1	3.51	6.00	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7439-95-4	Magnesium	69900		1	36.0	1000	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7439-96-5	Manganese	8080	N	1	0.68	10.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7439-97-6	Mercury	0.87		1	0.078	0.20	ug/L	04/28/23 10:35	04/28/23 13:54	SW7470A	
7440-02-0	Nickel	564		1	0.85	20.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-09-7	Potassium	47000		1	685	1000	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7782-49-2	Selenium	5.90	J	1	5.88	10.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-22-4	Silver	37.9		1	0.66	5.00	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-23-5	Sodium	29800		1	237	1000	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-62-2	Vanadium	313		1	3.01	20.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-66-6	Zinc	519	N	1	1.75	20.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010

Color Before:	Brown	Clarity Before:	Cloudy	Texture:	
Color After:	Brown	Clarity After:	Cloudy	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15	SDG No.:	O2521
Lab Sample ID:	O2521-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	80.5	N	1	28.3	50.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-39-3	Barium	291	N	1	3.92	50.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-43-9	Cadmium	3.00	U	1	0.10	3.00	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-70-2	Calcium	61300		1	47.7	1000	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-47-3	Chromium	5.00	U	1	0.80	5.00	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-48-4	Cobalt	2.49	J	1	0.40	15.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-50-8	Copper	10.4		1	7.07	10.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7439-89-6	Iron	62.4	N	1	18.5	50.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7439-95-4	Magnesium	43700		1	36.0	1000	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7439-96-5	Manganese	41.7	N	1	0.68	10.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	05/02/23 13:30	05/02/23 16:44	SW7470A	
7440-02-0	Nickel	14.0	J	1	0.85	20.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-09-7	Potassium	30900		1	685	1000	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-22-4	Silver	0.81	J	1	0.66	5.00	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-23-5	Sodium	36400		1	237	1000	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-62-2	Vanadium	20.0	U	1	3.01	20.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-66-6	Zinc	4.22	JN	1	1.75	20.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10	SDG No.:	O2521
Lab Sample ID:	O2521-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	561	N	1	28.3	50.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-36-0	Antimony	2.86	J	1	2.06	25.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-38-2	Arsenic	6.65	J	1	3.48	10.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-39-3	Barium	392	N	1	3.92	50.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-41-7	Beryllium	0.20	J	1	0.13	3.00	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-43-9	Cadmium	0.70	J	1	0.10	3.00	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-70-2	Calcium	153000		1	47.7	1000	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-47-3	Chromium	3.09	J	1	0.80	5.00	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-48-4	Cobalt	1.45	J	1	0.40	15.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-50-8	Copper	58.8		1	7.07	10.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
Hardness	Hardness, Total	480000		1	267	6620	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7439-89-6	Iron	16500	N	1	18.5	50.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7439-92-1	Lead	66.0		1	3.51	6.00	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7439-95-4	Magnesium	23700		1	36.0	1000	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7439-96-5	Manganese	894	N	1	0.68	10.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	04/28/23 10:35	04/28/23 13:57	SW7470A	
7440-02-0	Nickel	12.2	J	1	0.85	20.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-09-7	Potassium	35300		1	685	1000	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.66	5.00	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-23-5	Sodium	14400		1	237	1000	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-62-2	Vanadium	22.1		1	3.01	20.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-66-6	Zinc	86.0	N	1	1.75	20.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10	SDG No.:	O2521
Lab Sample ID:	O2521-06	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	147	N	1	28.3	50.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-39-3	Barium	320	N	1	3.92	50.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-43-9	Cadmium	0.11	J	1	0.10	3.00	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-70-2	Calcium	146000		1	47.7	1000	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-47-3	Chromium	5.00	U	1	0.80	5.00	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-48-4	Cobalt	15.0	U	1	0.40	15.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-50-8	Copper	23.9		1	7.07	10.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7439-89-6	Iron	27.0	JN	1	18.5	50.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7439-95-4	Magnesium	23900		1	36.0	1000	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7439-96-5	Manganese	702	N	1	0.68	10.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	05/02/23 13:30	05/02/23 16:47	SW7470A	
7440-02-0	Nickel	8.11	J	1	0.85	20.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-09-7	Potassium	35200		1	685	1000	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.66	5.00	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-23-5	Sodium	15500		1	237	1000	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-62-2	Vanadium	20.0	U	1	3.01	20.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-66-6	Zinc	17.0	JN	1	1.75	20.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7	SDG No.:	O2521
Lab Sample ID:	O2521-07	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2230	N	1	28.3	50.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-36-0	Antimony	2.16	J	1	2.06	25.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-39-3	Barium	290	N	1	3.92	50.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-43-9	Cadmium	1.47	J	1	0.10	3.00	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-70-2	Calcium	145000		1	47.7	1000	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-47-3	Chromium	9.98		1	0.80	5.00	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-48-4	Cobalt	2.59	J	1	0.40	15.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-50-8	Copper	61.7		1	7.07	10.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
Hardness	Hardness, Total	473000		1	267	6620	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7439-89-6	Iron	4730	N	1	18.5	50.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7439-92-1	Lead	49.5		1	3.51	6.00	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7439-95-4	Magnesium	26900		1	36.0	1000	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7439-96-5	Manganese	249	N	1	0.68	10.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7439-97-6	Mercury	0.083	J	1	0.078	0.20	ug/L	04/28/23 10:35	04/28/23 13:59	SW7470A	
7440-02-0	Nickel	20.0		1	0.85	20.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-09-7	Potassium	20900		1	685	1000	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.66	5.00	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-23-5	Sodium	32800		1	237	1000	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-62-2	Vanadium	4.55	J	1	3.01	20.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-66-6	Zinc	185	N	1	1.75	20.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7	SDG No.:	O2521
Lab Sample ID:	O2521-08	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	145	N	1	28.3	50.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-39-3	Barium	233	N	1	3.92	50.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-43-9	Cadmium	0.23	J	1	0.10	3.00	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-70-2	Calcium	137000		1	47.7	1000	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-47-3	Chromium	5.00	U	1	0.80	5.00	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-48-4	Cobalt	0.84	J	1	0.40	15.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-50-8	Copper	22.3		1	7.07	10.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7439-89-6	Iron	24.9	JN	1	18.5	50.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7439-95-4	Magnesium	25800		1	36.0	1000	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7439-96-5	Manganese	207	N	1	0.68	10.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	05/02/23 13:30	05/02/23 16:49	SW7470A	
7440-02-0	Nickel	8.17	J	1	0.85	20.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-09-7	Potassium	20500		1	685	1000	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.66	5.00	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-23-5	Sodium	32800		1	237	1000	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-62-2	Vanadium	20.0	U	1	3.01	20.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-66-6	Zinc	70.2	N	1	1.75	20.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	FB	SDG No.:	O2521
Lab Sample ID:	O2521-14	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	50.0	UN	1	28.3	50.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-39-3	Barium	50.0	UN	1	3.92	50.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-43-9	Cadmium	3.00	U	1	0.10	3.00	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-70-2	Calcium	50.4	J	1	47.7	1000	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-47-3	Chromium	0.85	J	1	0.80	5.00	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-48-4	Cobalt	15.0	U	1	0.40	15.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-50-8	Copper	10.0	U	1	7.07	10.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
Hardness	Hardness, Total	126	U	1	267	6620	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7439-89-6	Iron	50.0	UN	1	18.5	50.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7439-95-4	Magnesium	1000	U	1	36.0	1000	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7439-96-5	Manganese	0.88	JN	1	0.68	10.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	04/28/23 10:35	04/28/23 14:11	SW7470A	
7440-02-0	Nickel	20.0	U	1	0.85	20.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-09-7	Potassium	1000	U	1	685	1000	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.66	5.00	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-23-5	Sodium	240	J	1	237	1000	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-62-2	Vanadium	20.0	U	1	3.01	20.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-66-6	Zinc	2.17	JN	1	1.75	20.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	FB	SDG No.:	O2521
Lab Sample ID:	O2521-15	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	50.0	UN	1	28.3	50.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-39-3	Barium	9.56	JN	1	3.92	50.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-43-9	Cadmium	0.28	J	1	0.10	3.00	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-70-2	Calcium	1900		1	47.7	1000	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-47-3	Chromium	5.00	U	1	0.80	5.00	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-48-4	Cobalt	15.0	U	1	0.40	15.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-50-8	Copper	10.0	U	1	7.07	10.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7439-89-6	Iron	32.2	JN	1	18.5	50.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7439-95-4	Magnesium	41.9	J	1	36.0	1000	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7439-96-5	Manganese	31.6	N	1	0.68	10.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	05/02/23 13:30	05/02/23 16:58	SW7470A	
7440-02-0	Nickel	20.0	U	1	0.85	20.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-09-7	Potassium	1000	U	1	685	1000	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.66	5.00	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-23-5	Sodium	763	J	1	237	1000	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-62-2	Vanadium	20.0	U	1	3.01	20.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-66-6	Zinc	21.4	N	1	1.75	20.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
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METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV53	Mercury	4.39	4.0	110	90 - 110	CV	04/28/2023	13:11	LB125204

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV79	Mercury	5.13	5.0	102	90 - 110	CV	04/28/2023	13:16	LB125204
CCV80	Mercury	4.98	5.0	100	90 - 110	CV	04/28/2023	13:43	LB125204
CCV81	Mercury	4.94	5.0	99	90 - 110	CV	04/28/2023	14:14	LB125204
CCV82	Mercury	5.03	5.0	101	90 - 110	CV	04/28/2023	14:30	LB125204

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV58	Mercury	3.76	4.0	94	90 - 110	CV	05/02/2023	16:06	LB125251

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV98	Mercury	4.81	5.0	96	90 - 110	CV	05/02/2023	16:10	LB125251
CCV99	Mercury	4.78	5.0	96	90 - 110	CV	05/02/2023	16:38	LB125251
CCV01	Mercury	4.71	5.0	94	90 - 110	CV	05/02/2023	17:05	LB125251

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2610	2500	104	90 - 110	P	05/03/2023	14:04	LB125269
	Antimony	1040	1000	104	90 - 110	P	05/03/2023	14:04	LB125269
	Arsenic	1080	1000	108	90 - 110	P	05/03/2023	14:04	LB125269
	Barium	555	520	107	90 - 110	P	05/03/2023	14:04	LB125269
	Beryllium	515	510	101	90 - 110	P	05/03/2023	14:04	LB125269
	Cadmium	521	510	102	90 - 110	P	05/03/2023	14:04	LB125269
	Calcium	10100	10000	100	90 - 110	P	05/03/2023	14:04	LB125269
	Chromium	492	520	95	90 - 110	P	05/03/2023	14:04	LB125269
	Cobalt	524	520	101	90 - 110	P	05/03/2023	14:04	LB125269
	Copper	548	510	108	90 - 110	P	05/03/2023	14:04	LB125269
	Iron	9830	10000	98	90 - 110	P	05/03/2023	14:04	LB125269
	Lead	1060	1000	106	90 - 110	P	05/03/2023	14:04	LB125269
	Magnesium	6080	6000	101	90 - 110	P	05/03/2023	14:04	LB125269
	Manganese	551	520	106	90 - 110	P	05/03/2023	14:04	LB125269
	Nickel	530	530	100	90 - 110	P	05/03/2023	14:04	LB125269
	Potassium	9740	9900	98	90 - 110	P	05/03/2023	14:04	LB125269
	Selenium	1090	1000	109	90 - 110	P	05/03/2023	14:04	LB125269
	Silver	239	250	96	90 - 110	P	05/03/2023	14:04	LB125269
	Sodium	9080	10000	91	90 - 110	P	05/03/2023	14:04	LB125269
	Thallium	1080	1000	108	90 - 110	P	05/03/2023	14:04	LB125269
	Vanadium	509	500	102	90 - 110	P	05/03/2023	14:04	LB125269
	Zinc	1050	1000	105	90 - 110	P	05/03/2023	14:04	LB125269

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9750	10000	98	90 - 110	P	05/03/2023	14:31	LB125269
	Antimony	5000	5000	100	90 - 110	P	05/03/2023	14:31	LB125269
	Arsenic	4870	5000	97	90 - 110	P	05/03/2023	14:31	LB125269
	Barium	10100	10000	101	90 - 110	P	05/03/2023	14:31	LB125269
	Beryllium	238	250	95	90 - 110	P	05/03/2023	14:31	LB125269
	Cadmium	2390	2500	96	90 - 110	P	05/03/2023	14:31	LB125269
	Calcium	23600	25000	95	90 - 110	P	05/03/2023	14:31	LB125269
	Chromium	953	1000	95	90 - 110	P	05/03/2023	14:31	LB125269
	Cobalt	2450	2500	98	90 - 110	P	05/03/2023	14:31	LB125269
	Copper	1230	1250	98	90 - 110	P	05/03/2023	14:31	LB125269
	Iron	4840	5000	97	90 - 110	P	05/03/2023	14:31	LB125269
	Lead	4880	5000	98	90 - 110	P	05/03/2023	14:31	LB125269
	Magnesium	26300	25000	105	90 - 110	P	05/03/2023	14:31	LB125269
	Manganese	2520	2500	101	90 - 110	P	05/03/2023	14:31	LB125269
	Nickel	2470	2500	99	90 - 110	P	05/03/2023	14:31	LB125269
	Potassium	24200	25000	97	90 - 110	P	05/03/2023	14:31	LB125269
	Selenium	4860	5000	97	90 - 110	P	05/03/2023	14:31	LB125269
	Silver	1130	1250	90	90 - 110	P	05/03/2023	14:31	LB125269
	Sodium	25500	25000	102	90 - 110	P	05/03/2023	14:31	LB125269
	Thallium	4870	5000	97	90 - 110	P	05/03/2023	14:31	LB125269
	Vanadium	2410	2500	96	90 - 110	P	05/03/2023	14:31	LB125269
	Zinc	2490	2500	99	90 - 110	P	05/03/2023	14:31	LB125269

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV01	Aluminum	99.2	100	99	80 - 120	P	05/03/2023	14:35	LB125269
	Antimony	53.9	50.0	108	80 - 120	P	05/03/2023	14:35	LB125269
	Arsenic	23.0	20.0	115	80 - 120	P	05/03/2023	14:35	LB125269
	Barium	112	100	112	80 - 120	P	05/03/2023	14:35	LB125269
	Beryllium	6.29	6.0	105	80 - 120	P	05/03/2023	14:35	LB125269
	Cadmium	6.52	6.0	109	80 - 120	P	05/03/2023	14:35	LB125269
	Calcium	1950	2000	98	80 - 120	P	05/03/2023	14:35	LB125269
	Chromium	9.71	10.0	97	80 - 120	P	05/03/2023	14:35	LB125269
	Cobalt	30.8	30.0	103	80 - 120	P	05/03/2023	14:35	LB125269
	Copper	23.6	20.0	118	80 - 120	P	05/03/2023	14:35	LB125269
	Iron	104	100	104	80 - 120	P	05/03/2023	14:35	LB125269
	Lead	12.7	12.0	106	80 - 120	P	05/03/2023	14:35	LB125269
	Magnesium	2190	2000	109	80 - 120	P	05/03/2023	14:35	LB125269
	Manganese	22.8	20.0	114	80 - 120	P	05/03/2023	14:35	LB125269
	Nickel	40.9	40.0	102	80 - 120	P	05/03/2023	14:35	LB125269
	Potassium	1940	2000	97	80 - 120	P	05/03/2023	14:35	LB125269
	Selenium	22.2	20.0	111	80 - 120	P	05/03/2023	14:35	LB125269
	Silver	10.9	10.0	109	80 - 120	P	05/03/2023	14:35	LB125269
	Sodium	1720	2000	86	80 - 120	P	05/03/2023	14:35	LB125269
	Thallium	43.2	40.0	108	80 - 120	P	05/03/2023	14:35	LB125269
	Vanadium	40.7	40.0	102	80 - 120	P	05/03/2023	14:35	LB125269
	Zinc	46.9	40.0	117	80 - 120	P	05/03/2023	14:35	LB125269

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Aluminum	9680	10000	97	90 - 110	P	05/03/2023	15:21	LB125269
	Antimony	5010	5000	100	90 - 110	P	05/03/2023	15:21	LB125269
	Arsenic	4820	5000	96	90 - 110	P	05/03/2023	15:21	LB125269
	Barium	10100	10000	101	90 - 110	P	05/03/2023	15:21	LB125269
	Beryllium	237	250	95	90 - 110	P	05/03/2023	15:21	LB125269
	Cadmium	2330	2500	93	90 - 110	P	05/03/2023	15:21	LB125269
	Calcium	23500	25000	94	90 - 110	P	05/03/2023	15:21	LB125269
	Chromium	941	1000	94	90 - 110	P	05/03/2023	15:21	LB125269
	Cobalt	2410	2500	96	90 - 110	P	05/03/2023	15:21	LB125269
	Copper	1210	1250	97	90 - 110	P	05/03/2023	15:21	LB125269
	Iron	4750	5000	95	90 - 110	P	05/03/2023	15:21	LB125269
	Lead	4810	5000	96	90 - 110	P	05/03/2023	15:21	LB125269
	Magnesium	26400	25000	106	90 - 110	P	05/03/2023	15:21	LB125269
	Manganese	2530	2500	101	90 - 110	P	05/03/2023	15:21	LB125269
	Nickel	2450	2500	98	90 - 110	P	05/03/2023	15:21	LB125269
	Potassium	23900	25000	96	90 - 110	P	05/03/2023	15:21	LB125269
	Selenium	4760	5000	95	90 - 110	P	05/03/2023	15:21	LB125269
	Silver	1130	1250	90	90 - 110	P	05/03/2023	15:21	LB125269
	Sodium	24700	25000	99	90 - 110	P	05/03/2023	15:21	LB125269
	Thallium	4780	5000	96	90 - 110	P	05/03/2023	15:21	LB125269
	Vanadium	2400	2500	96	90 - 110	P	05/03/2023	15:21	LB125269
	Zinc	2460	2500	98	90 - 110	P	05/03/2023	15:21	LB125269
CCV03	Aluminum	9780	10000	98	90 - 110	P	05/03/2023	16:39	LB125269
	Antimony	5290	5000	106	90 - 110	P	05/03/2023	16:39	LB125269
	Arsenic	5000	5000	100	90 - 110	P	05/03/2023	16:39	LB125269
	Barium	10500	10000	105	90 - 110	P	05/03/2023	16:39	LB125269
	Beryllium	237	250	95	90 - 110	P	05/03/2023	16:39	LB125269
	Cadmium	2390	2500	96	90 - 110	P	05/03/2023	16:39	LB125269
	Calcium	23800	25000	95	90 - 110	P	05/03/2023	16:39	LB125269
	Chromium	947	1000	95	90 - 110	P	05/03/2023	16:39	LB125269
	Cobalt	2500	2500	100	90 - 110	P	05/03/2023	16:39	LB125269
	Copper	1250	1250	100	90 - 110	P	05/03/2023	16:39	LB125269
	Iron	5000	5000	100	90 - 110	P	05/03/2023	16:39	LB125269
	Lead	5000	5000	100	90 - 110	P	05/03/2023	16:39	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV03	Magnesium	27300	25000	109	90 - 110	P	05/03/2023	16:39	LB125269
	Manganese	2610	2500	104	90 - 110	P	05/03/2023	16:39	LB125269
	Nickel	2560	2500	103	90 - 110	P	05/03/2023	16:39	LB125269
	Potassium	24600	25000	98	90 - 110	P	05/03/2023	16:39	LB125269
	Selenium	4910	5000	98	90 - 110	P	05/03/2023	16:39	LB125269
	Silver	1150	1250	92	90 - 110	P	05/03/2023	16:39	LB125269
	Sodium	25500	25000	102	90 - 110	P	05/03/2023	16:39	LB125269
	Thallium	4930	5000	98	90 - 110	P	05/03/2023	16:39	LB125269
	Vanadium	2460	2500	98	90 - 110	P	05/03/2023	16:39	LB125269
	Zinc	2500	2500	100	90 - 110	P	05/03/2023	16:39	LB125269
CCV04	Aluminum	9900	10000	99	90 - 110	P	05/03/2023	17:30	LB125269
	Antimony	5200	5000	104	90 - 110	P	05/03/2023	17:30	LB125269
	Arsenic	4910	5000	98	90 - 110	P	05/03/2023	17:30	LB125269
	Barium	10500	10000	105	90 - 110	P	05/03/2023	17:30	LB125269
	Beryllium	238	250	95	90 - 110	P	05/03/2023	17:30	LB125269
	Cadmium	2340	2500	94	90 - 110	P	05/03/2023	17:30	LB125269
	Calcium	23900	25000	96	90 - 110	P	05/03/2023	17:30	LB125269
	Chromium	950	1000	95	90 - 110	P	05/03/2023	17:30	LB125269
	Cobalt	2460	2500	98	90 - 110	P	05/03/2023	17:30	LB125269
	Copper	1230	1250	98	90 - 110	P	05/03/2023	17:30	LB125269
	Iron	5020	5000	100	90 - 110	P	05/03/2023	17:30	LB125269
	Lead	4910	5000	98	90 - 110	P	05/03/2023	17:30	LB125269
	Magnesium	27400	25000	110	90 - 110	P	05/03/2023	17:30	LB125269
	Manganese	2620	2500	105	90 - 110	P	05/03/2023	17:30	LB125269
	Nickel	2510	2500	100	90 - 110	P	05/03/2023	17:30	LB125269
	Potassium	24800	25000	99	90 - 110	P	05/03/2023	17:30	LB125269
	Selenium	4830	5000	97	90 - 110	P	05/03/2023	17:30	LB125269
	Silver	1140	1250	92	90 - 110	P	05/03/2023	17:30	LB125269
	Sodium	25500	25000	102	90 - 110	P	05/03/2023	17:30	LB125269
	Thallium	4840	5000	97	90 - 110	P	05/03/2023	17:30	LB125269
	Vanadium	2460	2500	99	90 - 110	P	05/03/2023	17:30	LB125269
	Zinc	2520	2500	101	90 - 110	P	05/03/2023	17:30	LB125269
CCV05	Aluminum	10100	10000	101	90 - 110	P	05/03/2023	18:16	LB125269
	Antimony	5360	5000	107	90 - 110	P	05/03/2023	18:16	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Arsenic	5070	5000	101	90 - 110	P	05/03/2023	18:16	LB125269
	Barium	10800	10000	108	90 - 110	P	05/03/2023	18:16	LB125269
	Beryllium	244	250	98	90 - 110	P	05/03/2023	18:16	LB125269
	Cadmium	2430	2500	97	90 - 110	P	05/03/2023	18:16	LB125269
	Calcium	24400	25000	98	90 - 110	P	05/03/2023	18:16	LB125269
	Chromium	911	1000	91	90 - 110	P	05/03/2023	18:16	LB125269
	Cobalt	2550	2500	102	90 - 110	P	05/03/2023	18:16	LB125269
	Copper	1270	1250	102	90 - 110	P	05/03/2023	18:16	LB125269
	Iron	4940	5000	99	90 - 110	P	05/03/2023	18:16	LB125269
	Lead	5090	5000	102	90 - 110	P	05/03/2023	18:16	LB125269
	Magnesium	26000	25000	104	90 - 110	P	05/03/2023	18:16	LB125269
	Manganese	2710	2500	108	90 - 110	P	05/03/2023	18:16	LB125269
	Nickel	2610	2500	104	90 - 110	P	05/03/2023	18:16	LB125269
	Potassium	24800	25000	99	90 - 110	P	05/03/2023	18:16	LB125269
	Selenium	4980	5000	100	90 - 110	P	05/03/2023	18:16	LB125269
	Silver	1140	1250	91	90 - 110	P	05/03/2023	18:16	LB125269
	Sodium	23300	25000	93	90 - 110	P	05/03/2023	18:16	LB125269
	Thallium	5020	5000	100	90 - 110	P	05/03/2023	18:16	LB125269
	Vanadium	2530	2500	101	90 - 110	P	05/03/2023	18:16	LB125269
	Zinc	2550	2500	102	90 - 110	P	05/03/2023	18:16	LB125269
CCV06	Aluminum	9940	10000	99	90 - 110	P	05/03/2023	19:03	LB125269
	Antimony	5320	5000	106	90 - 110	P	05/03/2023	19:03	LB125269
	Arsenic	5060	5000	101	90 - 110	P	05/03/2023	19:03	LB125269
	Barium	10600	10000	106	90 - 110	P	05/03/2023	19:03	LB125269
	Beryllium	243	250	97	90 - 110	P	05/03/2023	19:03	LB125269
	Cadmium	2460	2500	98	90 - 110	P	05/03/2023	19:03	LB125269
	Calcium	24000	25000	96	90 - 110	P	05/03/2023	19:03	LB125269
	Chromium	904	1000	90	90 - 110	P	05/03/2023	19:03	LB125269
	Cobalt	2570	2500	103	90 - 110	P	05/03/2023	19:03	LB125269
	Copper	1280	1250	102	90 - 110	P	05/03/2023	19:03	LB125269
	Iron	4810	5000	96	90 - 110	P	05/03/2023	19:03	LB125269
	Lead	5120	5000	102	90 - 110	P	05/03/2023	19:03	LB125269
	Magnesium	25500	25000	102	90 - 110	P	05/03/2023	19:03	LB125269
	Manganese	2670	2500	107	90 - 110	P	05/03/2023	19:03	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06	Nickel	2620	2500	105	90 - 110	P	05/03/2023	19:03	LB125269
	Potassium	24200	25000	97	90 - 110	P	05/03/2023	19:03	LB125269
	Selenium	4960	5000	99	90 - 110	P	05/03/2023	19:03	LB125269
	Silver	1250	1250	100	90 - 110	P	05/03/2023	19:03	LB125269
	Sodium	22500	25000	90	90 - 110	P	05/03/2023	19:03	LB125269
	Thallium	5040	5000	101	90 - 110	P	05/03/2023	19:03	LB125269
	Vanadium	2470	2500	99	90 - 110	P	05/03/2023	19:03	LB125269
	Zinc	2560	2500	102	90 - 110	P	05/03/2023	19:03	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2590	2500	104	90 - 110	P	05/04/2023	13:41	LB125287
	Antimony	1000	1000	100	90 - 110	P	05/04/2023	13:41	LB125287
	Arsenic	1050	1000	105	90 - 110	P	05/04/2023	13:41	LB125287
	Barium	525	520	101	90 - 110	P	05/04/2023	13:41	LB125287
	Beryllium	524	510	103	90 - 110	P	05/04/2023	13:41	LB125287
	Cadmium	518	510	102	90 - 110	P	05/04/2023	13:41	LB125287
	Calcium	10200	10000	102	90 - 110	P	05/04/2023	13:41	LB125287
	Chromium	521	520	100	90 - 110	P	05/04/2023	13:41	LB125287
	Cobalt	509	520	98	90 - 110	P	05/04/2023	13:41	LB125287
	Copper	535	510	105	90 - 110	P	05/04/2023	13:41	LB125287
	Iron	9840	10000	98	90 - 110	P	05/04/2023	13:41	LB125287
	Lead	1040	1000	104	90 - 110	P	05/04/2023	13:41	LB125287
	Magnesium	6060	6000	101	90 - 110	P	05/04/2023	13:41	LB125287
	Manganese	528	520	102	90 - 110	P	05/04/2023	13:41	LB125287
	Nickel	511	530	96	90 - 110	P	05/04/2023	13:41	LB125287
	Potassium	9650	9900	98	90 - 110	P	05/04/2023	13:41	LB125287
	Selenium	1070	1000	107	90 - 110	P	05/04/2023	13:41	LB125287
	Silver	253	250	101	90 - 110	P	05/04/2023	13:41	LB125287
	Sodium	9520	10000	95	90 - 110	P	05/04/2023	13:41	LB125287
	Thallium	1070	1000	107	90 - 110	P	05/04/2023	13:41	LB125287
	Vanadium	508	500	102	90 - 110	P	05/04/2023	13:41	LB125287
	Zinc	1030	1000	103	90 - 110	P	05/04/2023	13:41	LB125287

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9590	10000	96	90 - 110	P	05/04/2023	14:10	LB125287
	Antimony	5000	5000	100	90 - 110	P	05/04/2023	14:10	LB125287
	Arsenic	5100	5000	102	90 - 110	P	05/04/2023	14:10	LB125287
	Barium	9860	10000	99	90 - 110	P	05/04/2023	14:10	LB125287
	Beryllium	242	250	97	90 - 110	P	05/04/2023	14:10	LB125287
	Cadmium	2390	2500	96	90 - 110	P	05/04/2023	14:10	LB125287
	Calcium	23700	25000	95	90 - 110	P	05/04/2023	14:10	LB125287
	Chromium	956	1000	96	90 - 110	P	05/04/2023	14:10	LB125287
	Cobalt	2440	2500	98	90 - 110	P	05/04/2023	14:10	LB125287
	Copper	1250	1250	100	90 - 110	P	05/04/2023	14:10	LB125287
	Iron	4870	5000	97	90 - 110	P	05/04/2023	14:10	LB125287
	Lead	4880	5000	98	90 - 110	P	05/04/2023	14:10	LB125287
	Magnesium	24400	25000	98	90 - 110	P	05/04/2023	14:10	LB125287
	Manganese	2500	2500	100	90 - 110	P	05/04/2023	14:10	LB125287
	Nickel	2460	2500	99	90 - 110	P	05/04/2023	14:10	LB125287
	Potassium	24200	25000	97	90 - 110	P	05/04/2023	14:10	LB125287
	Selenium	4950	5000	99	90 - 110	P	05/04/2023	14:10	LB125287
	Silver	1250	1250	100	90 - 110	P	05/04/2023	14:10	LB125287
	Sodium	23800	25000	95	90 - 110	P	05/04/2023	14:10	LB125287
	Thallium	4870	5000	98	90 - 110	P	05/04/2023	14:10	LB125287
	Vanadium	2410	2500	96	90 - 110	P	05/04/2023	14:10	LB125287
	Zinc	2490	2500	100	90 - 110	P	05/04/2023	14:10	LB125287

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV01	Aluminum	117	100	117	80 - 120	P	05/04/2023	14:14	LB125287
	Antimony	51.3	50.0	103	80 - 120	P	05/04/2023	14:14	LB125287
	Arsenic	20.4	20.0	102	80 - 120	P	05/04/2023	14:14	LB125287
	Barium	104	100	104	80 - 120	P	05/04/2023	14:14	LB125287
	Beryllium	6.34	6.0	106	80 - 120	P	05/04/2023	14:14	LB125287
	Cadmium	6.31	6.0	105	80 - 120	P	05/04/2023	14:14	LB125287
	Calcium	1920	2000	96	80 - 120	P	05/04/2023	14:14	LB125287
	Chromium	9.72	10.0	97	80 - 120	P	05/04/2023	14:14	LB125287
	Cobalt	29.1	30.0	97	80 - 120	P	05/04/2023	14:14	LB125287
	Copper	23.5	20.0	117	80 - 120	P	05/04/2023	14:14	LB125287
	Iron	100	100	100	80 - 120	P	05/04/2023	14:14	LB125287
	Lead	13.7	12.0	114	80 - 120	P	05/04/2023	14:14	LB125287
	Magnesium	2130	2000	106	80 - 120	P	05/04/2023	14:14	LB125287
	Manganese	22.1	20.0	110	80 - 120	P	05/04/2023	14:14	LB125287
	Nickel	38.9	40.0	97	80 - 120	P	05/04/2023	14:14	LB125287
	Potassium	1910	2000	95	80 - 120	P	05/04/2023	14:14	LB125287
	Selenium	18.9	20.0	95	80 - 120	P	05/04/2023	14:14	LB125287
	Silver	10.5	10.0	105	80 - 120	P	05/04/2023	14:14	LB125287
	Sodium	1810	2000	90	80 - 120	P	05/04/2023	14:14	LB125287
	Thallium	40.9	40.0	102	80 - 120	P	05/04/2023	14:14	LB125287
	Vanadium	39.2	40.0	98	80 - 120	P	05/04/2023	14:14	LB125287
	Zinc	47.9	40.0	120	80 - 120	P	05/04/2023	14:14	LB125287

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Aluminum	9700	10000	97	90 - 110	P	05/04/2023	15:05	LB125287
	Antimony	5120	5000	102	90 - 110	P	05/04/2023	15:05	LB125287
	Arsenic	4950	5000	99	90 - 110	P	05/04/2023	15:05	LB125287
	Barium	10100	10000	101	90 - 110	P	05/04/2023	15:05	LB125287
	Beryllium	242	250	97	90 - 110	P	05/04/2023	15:05	LB125287
	Cadmium	2420	2500	97	90 - 110	P	05/04/2023	15:05	LB125287
	Calcium	23900	25000	96	90 - 110	P	05/04/2023	15:05	LB125287
	Chromium	963	1000	96	90 - 110	P	05/04/2023	15:05	LB125287
	Cobalt	2480	2500	99	90 - 110	P	05/04/2023	15:05	LB125287
	Copper	1270	1250	102	90 - 110	P	05/04/2023	15:05	LB125287
	Iron	4990	5000	100	90 - 110	P	05/04/2023	15:05	LB125287
	Lead	4970	5000	100	90 - 110	P	05/04/2023	15:05	LB125287
	Magnesium	25000	25000	100	90 - 110	P	05/04/2023	15:05	LB125287
	Manganese	2570	2500	103	90 - 110	P	05/04/2023	15:05	LB125287
	Nickel	2520	2500	101	90 - 110	P	05/04/2023	15:05	LB125287
	Potassium	24900	25000	99	90 - 110	P	05/04/2023	15:05	LB125287
	Selenium	5070	5000	101	90 - 110	P	05/04/2023	15:05	LB125287
	Silver	1350	1250	108	90 - 110	P	05/04/2023	15:05	LB125287
	Sodium	24600	25000	98	90 - 110	P	05/04/2023	15:05	LB125287
	Thallium	4950	5000	99	90 - 110	P	05/04/2023	15:05	LB125287
	Vanadium	2430	2500	97	90 - 110	P	05/04/2023	15:05	LB125287
	Zinc	2540	2500	102	90 - 110	P	05/04/2023	15:05	LB125287
CCV03	Aluminum	9720	10000	97	90 - 110	P	05/04/2023	15:53	LB125287
	Antimony	5280	5000	106	90 - 110	P	05/04/2023	15:53	LB125287
	Arsenic	5060	5000	101	90 - 110	P	05/04/2023	15:53	LB125287
	Barium	10200	10000	102	90 - 110	P	05/04/2023	15:53	LB125287
	Beryllium	238	250	95	90 - 110	P	05/04/2023	15:53	LB125287
	Cadmium	2440	2500	98	90 - 110	P	05/04/2023	15:53	LB125287
	Calcium	23900	25000	95	90 - 110	P	05/04/2023	15:53	LB125287
	Chromium	968	1000	97	90 - 110	P	05/04/2023	15:53	LB125287
	Cobalt	2520	2500	101	90 - 110	P	05/04/2023	15:53	LB125287
	Copper	1300	1250	104	90 - 110	P	05/04/2023	15:53	LB125287
	Iron	5040	5000	101	90 - 110	P	05/04/2023	15:53	LB125287
	Lead	5030	5000	101	90 - 110	P	05/04/2023	15:53	LB125287

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV03	Magnesium	24900	25000	100	90 - 110	P	05/04/2023	15:53	LB125287
	Manganese	2570	2500	103	90 - 110	P	05/04/2023	15:53	LB125287
	Nickel	2560	2500	102	90 - 110	P	05/04/2023	15:53	LB125287
	Potassium	25700	25000	103	90 - 110	P	05/04/2023	15:53	LB125287
	Selenium	5220	5000	104	90 - 110	P	05/04/2023	15:53	LB125287
	Silver	1370	1250	109	90 - 110	P	05/04/2023	15:53	LB125287
	Sodium	23700	25000	95	90 - 110	P	05/04/2023	15:53	LB125287
	Thallium	5010	5000	100	90 - 110	P	05/04/2023	15:53	LB125287
	Vanadium	2450	2500	98	90 - 110	P	05/04/2023	15:53	LB125287
	Zinc	2580	2500	103	90 - 110	P	05/04/2023	15:53	LB125287
CCV04	Aluminum	9490	10000	95	90 - 110	P	05/04/2023	16:52	LB125287
	Antimony	5230	5000	104	90 - 110	P	05/04/2023	16:52	LB125287
	Arsenic	4980	5000	100	90 - 110	P	05/04/2023	16:52	LB125287
	Barium	9960	10000	100	90 - 110	P	05/04/2023	16:52	LB125287
	Beryllium	239	250	96	90 - 110	P	05/04/2023	16:52	LB125287
	Cadmium	2390	2500	96	90 - 110	P	05/04/2023	16:52	LB125287
	Calcium	23300	25000	93	90 - 110	P	05/04/2023	16:52	LB125287
	Chromium	967	1000	97	90 - 110	P	05/04/2023	16:52	LB125287
	Cobalt	2480	2500	99	90 - 110	P	05/04/2023	16:52	LB125287
	Copper	1290	1250	103	90 - 110	P	05/04/2023	16:52	LB125287
	Iron	5010	5000	100	90 - 110	P	05/04/2023	16:52	LB125287
	Lead	4950	5000	99	90 - 110	P	05/04/2023	16:52	LB125287
	Magnesium	24400	25000	98	90 - 110	P	05/04/2023	16:52	LB125287
	Manganese	2540	2500	102	90 - 110	P	05/04/2023	16:52	LB125287
	Nickel	2520	2500	101	90 - 110	P	05/04/2023	16:52	LB125287
	Potassium	25100	25000	101	90 - 110	P	05/04/2023	16:52	LB125287
	Selenium	5170	5000	103	90 - 110	P	05/04/2023	16:52	LB125287
	Silver	1340	1250	107	90 - 110	P	05/04/2023	16:52	LB125287
	Sodium	24700	25000	99	90 - 110	P	05/04/2023	16:52	LB125287
	Thallium	4910	5000	98	90 - 110	P	05/04/2023	16:52	LB125287
	Vanadium	2390	2500	95	90 - 110	P	05/04/2023	16:52	LB125287
	Zinc	2580	2500	103	90 - 110	P	05/04/2023	16:52	LB125287
CCV05	Aluminum	9300	10000	93	90 - 110	P	05/04/2023	17:43	LB125287
	Antimony	5360	5000	107	90 - 110	P	05/04/2023	17:43	LB125287

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Arsenic	5030	5000	101	90 - 110	P	05/04/2023	17:43	LB125287
	Barium	10000	10000	100	90 - 110	P	05/04/2023	17:43	LB125287
	Beryllium	230	250	92	90 - 110	P	05/04/2023	17:43	LB125287
	Cadmium	2370	2500	95	90 - 110	P	05/04/2023	17:43	LB125287
	Calcium	22800	25000	91	90 - 110	P	05/04/2023	17:43	LB125287
	Chromium	927	1000	93	90 - 110	P	05/04/2023	17:43	LB125287
	Cobalt	2490	2500	100	90 - 110	P	05/04/2023	17:43	LB125287
	Copper	1310	1250	104	90 - 110	P	05/04/2023	17:43	LB125287
	Iron	4950	5000	99	90 - 110	P	05/04/2023	17:43	LB125287
	Lead	4990	5000	100	90 - 110	P	05/04/2023	17:43	LB125287
	Magnesium	24100	25000	96	90 - 110	P	05/04/2023	17:43	LB125287
	Manganese	2560	2500	102	90 - 110	P	05/04/2023	17:43	LB125287
	Nickel	2550	2500	102	90 - 110	P	05/04/2023	17:43	LB125287
	Potassium	25000	25000	100	90 - 110	P	05/04/2023	17:43	LB125287
	Selenium	5300	5000	106	90 - 110	P	05/04/2023	17:43	LB125287
	Silver	1330	1250	106	90 - 110	P	05/04/2023	17:43	LB125287
	Sodium	23600	25000	94	90 - 110	P	05/04/2023	17:43	LB125287
	Thallium	4930	5000	98	90 - 110	P	05/04/2023	17:43	LB125287
	Vanadium	2360	2500	94	90 - 110	P	05/04/2023	17:43	LB125287
	Zinc	2500	2500	100	90 - 110	P	05/04/2023	17:43	LB125287
CCV06	Aluminum	9500	10000	95	90 - 110	P	05/04/2023	18:13	LB125287
	Antimony	5250	5000	105	90 - 110	P	05/04/2023	18:13	LB125287
	Arsenic	4960	5000	99	90 - 110	P	05/04/2023	18:13	LB125287
	Barium	10100	10000	101	90 - 110	P	05/04/2023	18:13	LB125287
	Beryllium	240	250	96	90 - 110	P	05/04/2023	18:13	LB125287
	Cadmium	2370	2500	95	90 - 110	P	05/04/2023	18:13	LB125287
	Calcium	23300	25000	93	90 - 110	P	05/04/2023	18:13	LB125287
	Chromium	939	1000	94	90 - 110	P	05/04/2023	18:13	LB125287
	Cobalt	2480	2500	99	90 - 110	P	05/04/2023	18:13	LB125287
	Copper	1290	1250	103	90 - 110	P	05/04/2023	18:13	LB125287
	Iron	5010	5000	100	90 - 110	P	05/04/2023	18:13	LB125287
	Lead	4950	5000	99	90 - 110	P	05/04/2023	18:13	LB125287
	Magnesium	24600	25000	98	90 - 110	P	05/04/2023	18:13	LB125287
	Manganese	2620	2500	105	90 - 110	P	05/04/2023	18:13	LB125287

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06	Nickel	2520	2500	101	90 - 110	P	05/04/2023	18:13	LB125287
	Potassium	25200	25000	101	90 - 110	P	05/04/2023	18:13	LB125287
	Selenium	5170	5000	103	90 - 110	P	05/04/2023	18:13	LB125287
	Silver	1360	1250	108	90 - 110	P	05/04/2023	18:13	LB125287
	Sodium	24100	25000	96	90 - 110	P	05/04/2023	18:13	LB125287
	Thallium	4870	5000	97	90 - 110	P	05/04/2023	18:13	LB125287
	Vanadium	2400	2500	96	90 - 110	P	05/04/2023	18:13	LB125287
	Zinc	2600	2500	104	90 - 110	P	05/04/2023	18:13	LB125287

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2410	2500	96	90 - 110	P	05/11/2023	15:47	LB125428
	Antimony	985	1000	98	90 - 110	P	05/11/2023	15:47	LB125428
	Arsenic	1040	1000	104	90 - 110	P	05/11/2023	15:47	LB125428
	Barium	526	520	101	90 - 110	P	05/11/2023	15:47	LB125428
	Beryllium	551	510	108	90 - 110	P	05/11/2023	15:47	LB125428
	Cadmium	511	510	100	90 - 110	P	05/11/2023	15:47	LB125428
	Calcium	10200	10000	102	90 - 110	P	05/11/2023	15:47	LB125428
	Chromium	525	520	101	90 - 110	P	05/11/2023	15:47	LB125428
	Cobalt	503	520	97	90 - 110	P	05/11/2023	15:47	LB125428
	Copper	526	510	103	90 - 110	P	05/11/2023	15:47	LB125428
	Iron	9700	10000	97	90 - 110	P	05/11/2023	15:47	LB125428
	Lead	1030	1000	102	90 - 110	P	05/11/2023	15:47	LB125428
	Magnesium	6270	6000	104	90 - 110	P	05/11/2023	15:47	LB125428
	Manganese	530	520	102	90 - 110	P	05/11/2023	15:47	LB125428
	Nickel	506	530	95	90 - 110	P	05/11/2023	15:47	LB125428
	Potassium	9510	9900	96	90 - 110	P	05/11/2023	15:47	LB125428
	Selenium	1050	1000	105	90 - 110	P	05/11/2023	15:47	LB125428
	Silver	253	250	101	90 - 110	P	05/11/2023	15:47	LB125428
	Sodium	9530	10000	95	90 - 110	P	05/11/2023	15:47	LB125428
	Thallium	1040	1000	104	90 - 110	P	05/11/2023	15:47	LB125428
	Vanadium	515	500	103	90 - 110	P	05/11/2023	15:47	LB125428
	Zinc	1030	1000	103	90 - 110	P	05/11/2023	15:47	LB125428

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9820	10000	98	90 - 110	P	05/11/2023	16:19	LB125428
	Antimony	4850	5000	97	90 - 110	P	05/11/2023	16:19	LB125428
	Arsenic	4840	5000	97	90 - 110	P	05/11/2023	16:19	LB125428
	Barium	9660	10000	97	90 - 110	P	05/11/2023	16:19	LB125428
	Beryllium	241	250	96	90 - 110	P	05/11/2023	16:19	LB125428
	Cadmium	2470	2500	99	90 - 110	P	05/11/2023	16:19	LB125428
	Calcium	24300	25000	97	90 - 110	P	05/11/2023	16:19	LB125428
	Chromium	1010	1000	101	90 - 110	P	05/11/2023	16:19	LB125428
	Cobalt	2400	2500	96	90 - 110	P	05/11/2023	16:19	LB125428
	Copper	1220	1250	98	90 - 110	P	05/11/2023	16:19	LB125428
	Iron	4950	5000	99	90 - 110	P	05/11/2023	16:19	LB125428
	Lead	4850	5000	97	90 - 110	P	05/11/2023	16:19	LB125428
	Magnesium	24300	25000	97	90 - 110	P	05/11/2023	16:19	LB125428
	Manganese	2400	2500	96	90 - 110	P	05/11/2023	16:19	LB125428
	Nickel	2420	2500	97	90 - 110	P	05/11/2023	16:19	LB125428
	Potassium	23800	25000	95	90 - 110	P	05/11/2023	16:19	LB125428
	Selenium	4990	5000	100	90 - 110	P	05/11/2023	16:19	LB125428
	Silver	1220	1250	98	90 - 110	P	05/11/2023	16:19	LB125428
	Sodium	23500	25000	94	90 - 110	P	05/11/2023	16:19	LB125428
	Thallium	4810	5000	96	90 - 110	P	05/11/2023	16:19	LB125428
	Vanadium	2460	2500	98	90 - 110	P	05/11/2023	16:19	LB125428
	Zinc	2430	2500	97	90 - 110	P	05/11/2023	16:19	LB125428

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV01	Aluminum	88.2	100	88	80 - 120	P	05/11/2023	16:23	LB125428
	Antimony	52.1	50.0	104	80 - 120	P	05/11/2023	16:23	LB125428
	Arsenic	22.5	20.0	113	80 - 120	P	05/11/2023	16:23	LB125428
	Barium	104	100	104	80 - 120	P	05/11/2023	16:23	LB125428
	Beryllium	6.55	6.0	109	80 - 120	P	05/11/2023	16:23	LB125428
	Cadmium	6.67	6.0	111	80 - 120	P	05/11/2023	16:23	LB125428
	Calcium	2010	2000	100	80 - 120	P	05/11/2023	16:23	LB125428
	Chromium	10.5	10.0	105	80 - 120	P	05/11/2023	16:23	LB125428
	Cobalt	30.2	30.0	101	80 - 120	P	05/11/2023	16:23	LB125428
	Copper	23.6	20.0	118	80 - 120	P	05/11/2023	16:23	LB125428
	Iron	81.6	100	82	80 - 120	P	05/11/2023	16:23	LB125428
	Lead	13.9	12.0	116	80 - 120	P	05/11/2023	16:23	LB125428
	Magnesium	2220	2000	111	80 - 120	P	05/11/2023	16:23	LB125428
	Manganese	21.9	20.0	110	80 - 120	P	05/11/2023	16:23	LB125428
	Nickel	40.0	40.0	100	80 - 120	P	05/11/2023	16:23	LB125428
	Potassium	1940	2000	97	80 - 120	P	05/11/2023	16:23	LB125428
	Selenium	17.7	20.0	88	80 - 120	P	05/11/2023	16:23	LB125428
	Silver	10.5	10.0	105	80 - 120	P	05/11/2023	16:23	LB125428
	Sodium	1780	2000	89	80 - 120	P	05/11/2023	16:23	LB125428
	Thallium	43.6	40.0	109	80 - 120	P	05/11/2023	16:23	LB125428
	Vanadium	43.6	40.0	109	80 - 120	P	05/11/2023	16:23	LB125428
	Zinc	42.6	40.0	106	80 - 120	P	05/11/2023	16:23	LB125428

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Aluminum	9890	10000	99	90 - 110	P	05/11/2023	17:16	LB125428
	Antimony	4810	5000	96	90 - 110	P	05/11/2023	17:16	LB125428
	Arsenic	4790	5000	96	90 - 110	P	05/11/2023	17:16	LB125428
	Barium	9930	10000	99	90 - 110	P	05/11/2023	17:16	LB125428
	Beryllium	268	250	107	90 - 110	P	05/11/2023	17:16	LB125428
	Cadmium	2450	2500	98	90 - 110	P	05/11/2023	17:16	LB125428
	Calcium	24700	25000	99	90 - 110	P	05/11/2023	17:16	LB125428
	Chromium	1020	1000	102	90 - 110	P	05/11/2023	17:16	LB125428
	Cobalt	2390	2500	95	90 - 110	P	05/11/2023	17:16	LB125428
	Copper	1210	1250	97	90 - 110	P	05/11/2023	17:16	LB125428
	Iron	4630	5000	92	90 - 110	P	05/11/2023	17:16	LB125428
	Lead	4800	5000	96	90 - 110	P	05/11/2023	17:16	LB125428
	Magnesium	24500	25000	98	90 - 110	P	05/11/2023	17:16	LB125428
	Manganese	2480	2500	99	90 - 110	P	05/11/2023	17:16	LB125428
	Nickel	2400	2500	96	90 - 110	P	05/11/2023	17:16	LB125428
	Potassium	23100	25000	92	90 - 110	P	05/11/2023	17:16	LB125428
	Selenium	4890	5000	98	90 - 110	P	05/11/2023	17:16	LB125428
	Silver	1250	1250	100	90 - 110	P	05/11/2023	17:16	LB125428
	Sodium	23100	25000	92	90 - 110	P	05/11/2023	17:16	LB125428
	Thallium	4790	5000	96	90 - 110	P	05/11/2023	17:16	LB125428
	Vanadium	2510	2500	100	90 - 110	P	05/11/2023	17:16	LB125428
	Zinc	2490	2500	100	90 - 110	P	05/11/2023	17:16	LB125428
CCV03	Aluminum	9910	10000	99	90 - 110	P	05/11/2023	18:18	LB125428
	Antimony	4920	5000	98	90 - 110	P	05/11/2023	18:18	LB125428
	Arsenic	4860	5000	97	90 - 110	P	05/11/2023	18:18	LB125428
	Barium	9910	10000	99	90 - 110	P	05/11/2023	18:18	LB125428
	Beryllium	264	250	106	90 - 110	P	05/11/2023	18:18	LB125428
	Cadmium	2530	2500	101	90 - 110	P	05/11/2023	18:18	LB125428
	Calcium	25200	25000	101	90 - 110	P	05/11/2023	18:18	LB125428
	Chromium	1060	1000	106	90 - 110	P	05/11/2023	18:18	LB125428
	Cobalt	2420	2500	97	90 - 110	P	05/11/2023	18:18	LB125428
	Copper	1230	1250	98	90 - 110	P	05/11/2023	18:18	LB125428
	Iron	4760	5000	95	90 - 110	P	05/11/2023	18:18	LB125428
	Lead	4860	5000	97	90 - 110	P	05/11/2023	18:18	LB125428

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV03	Magnesium	24400	25000	98	90 - 110	P	05/11/2023	18:18	LB125428
	Manganese	2470	2500	99	90 - 110	P	05/11/2023	18:18	LB125428
	Nickel	2430	2500	97	90 - 110	P	05/11/2023	18:18	LB125428
	Potassium	23900	25000	95	90 - 110	P	05/11/2023	18:18	LB125428
	Selenium	5000	5000	100	90 - 110	P	05/11/2023	18:18	LB125428
	Silver	1270	1250	102	90 - 110	P	05/11/2023	18:18	LB125428
	Sodium	23600	25000	94	90 - 110	P	05/11/2023	18:18	LB125428
	Thallium	4840	5000	97	90 - 110	P	05/11/2023	18:18	LB125428
	Vanadium	2570	2500	103	90 - 110	P	05/11/2023	18:18	LB125428
	Zinc	2520	2500	101	90 - 110	P	05/11/2023	18:18	LB125428
CCV04	Aluminum	9830	10000	98	90 - 110	P	05/11/2023	19:01	LB125428
	Antimony	4860	5000	97	90 - 110	P	05/11/2023	19:01	LB125428
	Arsenic	4830	5000	97	90 - 110	P	05/11/2023	19:01	LB125428
	Barium	9600	10000	96	90 - 110	P	05/11/2023	19:01	LB125428
	Beryllium	239	250	96	90 - 110	P	05/11/2023	19:01	LB125428
	Cadmium	2500	2500	100	90 - 110	P	05/11/2023	19:01	LB125428
	Calcium	24300	25000	97	90 - 110	P	05/11/2023	19:01	LB125428
	Chromium	1050	1000	104	90 - 110	P	05/11/2023	19:01	LB125428
	Cobalt	2400	2500	96	90 - 110	P	05/11/2023	19:01	LB125428
	Copper	1220	1250	97	90 - 110	P	05/11/2023	19:01	LB125428
	Iron	4770	5000	96	90 - 110	P	05/11/2023	19:01	LB125428
	Lead	4810	5000	96	90 - 110	P	05/11/2023	19:01	LB125428
	Magnesium	24200	25000	97	90 - 110	P	05/11/2023	19:01	LB125428
	Manganese	2380	2500	95	90 - 110	P	05/11/2023	19:01	LB125428
	Nickel	2410	2500	96	90 - 110	P	05/11/2023	19:01	LB125428
	Potassium	24000	25000	96	90 - 110	P	05/11/2023	19:01	LB125428
	Selenium	4920	5000	98	90 - 110	P	05/11/2023	19:01	LB125428
	Silver	1220	1250	98	90 - 110	P	05/11/2023	19:01	LB125428
	Sodium	25600	25000	102	90 - 110	P	05/11/2023	19:01	LB125428
	Thallium	4790	5000	96	90 - 110	P	05/11/2023	19:01	LB125428
	Vanadium	2510	2500	100	90 - 110	P	05/11/2023	19:01	LB125428
	Zinc	2410	2500	96	90 - 110	P	05/11/2023	19:01	LB125428
CCV05	Aluminum	9480	10000	95	90 - 110	P	05/11/2023	19:49	LB125428
	Antimony	4800	5000	96	90 - 110	P	05/11/2023	19:49	LB125428

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Arsenic	4720	5000	94	90 - 110	P	05/11/2023	19:49	LB125428
	Barium	9440	10000	94	90 - 110	P	05/11/2023	19:49	LB125428
	Beryllium	236	250	95	90 - 110	P	05/11/2023	19:49	LB125428
	Cadmium	2410	2500	96	90 - 110	P	05/11/2023	19:49	LB125428
	Calcium	23500	25000	94	90 - 110	P	05/11/2023	19:49	LB125428
	Chromium	998	1000	100	90 - 110	P	05/11/2023	19:49	LB125428
	Cobalt	2310	2500	92	90 - 110	P	05/11/2023	19:49	LB125428
	Copper	1190	1250	95	90 - 110	P	05/11/2023	19:49	LB125428
	Iron	4550	5000	91	90 - 110	P	05/11/2023	19:49	LB125428
	Lead	4630	5000	92	90 - 110	P	05/11/2023	19:49	LB125428
	Magnesium	22800	25000	91	90 - 110	P	05/11/2023	19:49	LB125428
	Manganese	2320	2500	93	90 - 110	P	05/11/2023	19:49	LB125428
	Nickel	2320	2500	93	90 - 110	P	05/11/2023	19:49	LB125428
	Potassium	23400	25000	94	90 - 110	P	05/11/2023	19:49	LB125428
	Selenium	4890	5000	98	90 - 110	P	05/11/2023	19:49	LB125428
	Silver	1190	1250	95	90 - 110	P	05/11/2023	19:49	LB125428
	Sodium	23600	25000	94	90 - 110	P	05/11/2023	19:49	LB125428
	Thallium	4610	5000	92	90 - 110	P	05/11/2023	19:49	LB125428
	Vanadium	2460	2500	98	90 - 110	P	05/11/2023	19:49	LB125428
	Zinc	2350	2500	94	90 - 110	P	05/11/2023	19:49	LB125428
CCV06	Aluminum	9640	10000	96	90 - 110	P	05/11/2023	20:37	LB125428
	Antimony	4850	5000	97	90 - 110	P	05/11/2023	20:37	LB125428
	Arsenic	4770	5000	96	90 - 110	P	05/11/2023	20:37	LB125428
	Barium	9590	10000	96	90 - 110	P	05/11/2023	20:37	LB125428
	Beryllium	240	250	96	90 - 110	P	05/11/2023	20:37	LB125428
	Cadmium	2470	2500	99	90 - 110	P	05/11/2023	20:37	LB125428
	Calcium	23800	25000	95	90 - 110	P	05/11/2023	20:37	LB125428
	Chromium	1030	1000	103	90 - 110	P	05/11/2023	20:37	LB125428
	Cobalt	2350	2500	94	90 - 110	P	05/11/2023	20:37	LB125428
	Copper	1200	1250	96	90 - 110	P	05/11/2023	20:37	LB125428
	Iron	4830	5000	97	90 - 110	P	05/11/2023	20:37	LB125428
	Lead	4740	5000	95	90 - 110	P	05/11/2023	20:37	LB125428
	Magnesium	23300	25000	93	90 - 110	P	05/11/2023	20:37	LB125428
	Manganese	2350	2500	94	90 - 110	P	05/11/2023	20:37	LB125428

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06	Nickel	2370	2500	95	90 - 110	P	05/11/2023	20:37	LB125428
	Potassium	23900	25000	96	90 - 110	P	05/11/2023	20:37	LB125428
	Selenium	5000	5000	100	90 - 110	P	05/11/2023	20:37	LB125428
	Silver	1230	1250	98	90 - 110	P	05/11/2023	20:37	LB125428
	Sodium	24700	25000	99	90 - 110	P	05/11/2023	20:37	LB125428
	Thallium	4650	5000	93	90 - 110	P	05/11/2023	20:37	LB125428
	Vanadium	2490	2500	100	90 - 110	P	05/11/2023	20:37	LB125428
	Zinc	2430	2500	97	90 - 110	P	05/11/2023	20:37	LB125428
CCV07	Aluminum	9600	10000	96	90 - 110	P	05/11/2023	21:04	LB125428
	Antimony	4850	5000	97	90 - 110	P	05/11/2023	21:04	LB125428
	Arsenic	4800	5000	96	90 - 110	P	05/11/2023	21:04	LB125428
	Barium	9460	10000	95	90 - 110	P	05/11/2023	21:04	LB125428
	Beryllium	233	250	93	90 - 110	P	05/11/2023	21:04	LB125428
	Cadmium	2480	2500	99	90 - 110	P	05/11/2023	21:04	LB125428
	Calcium	23600	25000	95	90 - 110	P	05/11/2023	21:04	LB125428
	Chromium	1050	1000	104	90 - 110	P	05/11/2023	21:04	LB125428
	Cobalt	2340	2500	94	90 - 110	P	05/11/2023	21:04	LB125428
	Copper	1210	1250	97	90 - 110	P	05/11/2023	21:04	LB125428
	Iron	5000	5000	100	90 - 110	P	05/11/2023	21:04	LB125428
	Lead	4760	5000	95	90 - 110	P	05/11/2023	21:04	LB125428
	Magnesium	23300	25000	93	90 - 110	P	05/11/2023	21:04	LB125428
	Manganese	2290	2500	92	90 - 110	P	05/11/2023	21:04	LB125428
	Nickel	2380	2500	95	90 - 110	P	05/11/2023	21:04	LB125428
	Potassium	24000	25000	96	90 - 110	P	05/11/2023	21:04	LB125428
	Selenium	5150	5000	103	90 - 110	P	05/11/2023	21:04	LB125428
	Silver	1230	1250	98	90 - 110	P	05/11/2023	21:04	LB125428
	Sodium	24800	25000	99	90 - 110	P	05/11/2023	21:04	LB125428
	Thallium	4590	5000	92	90 - 110	P	05/11/2023	21:04	LB125428
	Vanadium	2460	2500	98	90 - 110	P	05/11/2023	21:04	LB125428
	Zinc	2430	2500	97	90 - 110	P	05/11/2023	21:04	LB125428

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Metals

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CRDL STANDARD FOR AA & ICP

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.21	0.2	105	40 - 160	CV	04/28/2023	13:20	LB125204
CRA	Mercury	0.16	0.2	82	40 - 160	CV	05/02/2023	16:15	LB125251
CRI01	Aluminum	120	100	120	40 - 160	P	05/03/2023	14:15	LB125269
	Antimony	52.5	50.0	105	40 - 160	P	05/03/2023	14:15	LB125269
	Arsenic	22.2	20.0	111	40 - 160	P	05/03/2023	14:15	LB125269
	Barium	113	100	114	40 - 160	P	05/03/2023	14:15	LB125269
	Beryllium	6.52	6.0	109	40 - 160	P	05/03/2023	14:15	LB125269
	Cadmium	6.52	6.0	109	40 - 160	P	05/03/2023	14:15	LB125269
	Calcium	1980	2000	99	40 - 160	P	05/03/2023	14:15	LB125269
	Chromium	10.0	10.0	100	40 - 160	P	05/03/2023	14:15	LB125269
	Cobalt	30.7	30.0	102	40 - 160	P	05/03/2023	14:15	LB125269
	Copper	23.4	20.0	117	40 - 160	P	05/03/2023	14:15	LB125269
	Iron	103	100	103	40 - 160	P	05/03/2023	14:15	LB125269
	Lead	12.8	12.0	107	40 - 160	P	05/03/2023	14:15	LB125269
	Magnesium	2200	2000	110	40 - 160	P	05/03/2023	14:15	LB125269
	Manganese	23.1	20.0	115	40 - 160	P	05/03/2023	14:15	LB125269
	Nickel	40.7	40.0	102	40 - 160	P	05/03/2023	14:15	LB125269
	Potassium	1950	2000	97	40 - 160	P	05/03/2023	14:15	LB125269
	Selenium	23.3	20.0	117	40 - 160	P	05/03/2023	14:15	LB125269
	Silver	11.5	10.0	116	40 - 160	P	05/03/2023	14:15	LB125269
	Sodium	1750	2000	88	40 - 160	P	05/03/2023	14:15	LB125269
	Thallium	42.6	40.0	106	40 - 160	P	05/03/2023	14:15	LB125269
	Vanadium	43.5	40.0	109	40 - 160	P	05/03/2023	14:15	LB125269
	Zinc	47.8	40.0	120	40 - 160	P	05/03/2023	14:15	LB125269
CRI01	Aluminum	98.1	100	98	40 - 160	P	05/04/2023	13:51	LB125287
	Antimony	49.6	50.0	99	40 - 160	P	05/04/2023	13:51	LB125287
	Arsenic	21.0	20.0	105	40 - 160	P	05/04/2023	13:51	LB125287
	Barium	103	100	103	40 - 160	P	05/04/2023	13:51	LB125287
	Beryllium	6.51	6.0	108	40 - 160	P	05/04/2023	13:51	LB125287
	Cadmium	6.24	6.0	104	40 - 160	P	05/04/2023	13:51	LB125287
	Calcium	1930	2000	96	40 - 160	P	05/04/2023	13:51	LB125287
	Chromium	9.64	10.0	96	40 - 160	P	05/04/2023	13:51	LB125287
	Cobalt	29.0	30.0	96	40 - 160	P	05/04/2023	13:51	LB125287
	Copper	24.1	20.0	120	40 - 160	P	05/04/2023	13:51	LB125287
	Iron	103	100	103	40 - 160	P	05/04/2023	13:51	LB125287

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Metals

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CRDL STANDARD FOR AA & ICP

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Lead	14.0	12.0	116	40 - 160	P	05/04/2023	13:51	LB125287
	Magnesium	2140	2000	107	40 - 160	P	05/04/2023	13:51	LB125287
	Manganese	21.9	20.0	110	40 - 160	P	05/04/2023	13:51	LB125287
	Nickel	38.6	40.0	96	40 - 160	P	05/04/2023	13:51	LB125287
	Potassium	1910	2000	96	40 - 160	P	05/04/2023	13:51	LB125287
	Selenium	21.3	20.0	106	40 - 160	P	05/04/2023	13:51	LB125287
	Silver	10.4	10.0	104	40 - 160	P	05/04/2023	13:51	LB125287
	Sodium	1830	2000	91	40 - 160	P	05/04/2023	13:51	LB125287
	Thallium	39.9	40.0	100	40 - 160	P	05/04/2023	13:51	LB125287
	Vanadium	41.0	40.0	103	40 - 160	P	05/04/2023	13:51	LB125287
	Zinc	48.4	40.0	121	40 - 160	P	05/04/2023	13:51	LB125287
CRI01	Aluminum	91.1	100	91	40 - 160	P	05/11/2023	15:55	LB125428
	Antimony	50.8	50.0	102	40 - 160	P	05/11/2023	15:55	LB125428
	Arsenic	21.4	20.0	107	40 - 160	P	05/11/2023	15:55	LB125428
	Barium	105	100	105	40 - 160	P	05/11/2023	15:55	LB125428
	Beryllium	6.59	6.0	110	40 - 160	P	05/11/2023	15:55	LB125428
	Cadmium	6.54	6.0	109	40 - 160	P	05/11/2023	15:55	LB125428
	Calcium	2020	2000	101	40 - 160	P	05/11/2023	15:55	LB125428
	Chromium	10.3	10.0	102	40 - 160	P	05/11/2023	15:55	LB125428
	Cobalt	30.2	30.0	101	40 - 160	P	05/11/2023	15:55	LB125428
	Copper	23.2	20.0	116	40 - 160	P	05/11/2023	15:55	LB125428
	Iron	74.8	100	75	40 - 160	P	05/11/2023	15:55	LB125428
	Lead	12.5	12.0	104	40 - 160	P	05/11/2023	15:55	LB125428
	Magnesium	2220	2000	111	40 - 160	P	05/11/2023	15:55	LB125428
	Manganese	21.9	20.0	110	40 - 160	P	05/11/2023	15:55	LB125428
	Nickel	39.8	40.0	100	40 - 160	P	05/11/2023	15:55	LB125428
	Potassium	1930	2000	96	40 - 160	P	05/11/2023	15:55	LB125428
	Selenium	19.7	20.0	98	40 - 160	P	05/11/2023	15:55	LB125428
	Silver	10.2	10.0	102	40 - 160	P	05/11/2023	15:55	LB125428
	Sodium	1810	2000	90	40 - 160	P	05/11/2023	15:55	LB125428
	Thallium	41.4	40.0	104	40 - 160	P	05/11/2023	15:55	LB125428
	Vanadium	41.3	40.0	103	40 - 160	P	05/11/2023	15:55	LB125428
	Zinc	42.5	40.0	106	40 - 160	P	05/11/2023	15:55	LB125428

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB53	Mercury	0.20	+/-0.20	U	0.20	CV	04/28/2023	13:14	LB125204

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB79	Mercury	0.20	+/-0.20	U	0.20	CV	04/28/2023	13:18	LB125204
CCB80	Mercury	0.20	+/-0.20	U	0.20	CV	04/28/2023	13:45	LB125204
CCB81	Mercury	0.20	+/-0.20	U	0.20	CV	04/28/2023	14:16	LB125204
CCB82	Mercury	0.20	+/-0.20	U	0.20	CV	04/28/2023	14:33	LB125204

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB58	Mercury	0.20	+/-0.20	U	0.20	CV	05/02/2023	16:08	LB125251

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB98	Mercury	0.20	+/-0.20	U	0.20	CV	05/02/2023	16:13	LB125251
CCB99	Mercury	0.20	+/-0.20	U	0.20	CV	05/02/2023	16:40	LB125251
CCB01	Mercury	0.20	+/-0.20	U	0.20	CV	05/02/2023	17:07	LB125251

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	05/03/2023	14:11	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	14:11	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	14:11	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	14:11	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	14:11	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	14:11	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	14:11	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	14:11	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	14:11	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	14:11	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	14:11	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	14:11	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	14:11	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	14:11	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	14:11	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	14:11	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	14:11	LB125269
	Silver	1.54	+/-10.0	J	10.0	P	05/03/2023	14:11	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	14:11	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	14:11	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	14:11	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	14:11	LB125269

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	05/03/2023	14:39	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	14:39	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	14:39	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	14:39	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	14:39	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	14:39	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	14:39	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	14:39	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	14:39	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	14:39	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	14:39	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	14:39	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	14:39	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	14:39	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	14:39	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	14:39	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	14:39	LB125269
	Silver	1.35	+/-10.0	J	10.0	P	05/03/2023	14:39	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	14:39	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	14:39	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	14:39	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	14:39	LB125269
CCB02	Aluminum	100	+/-100	U	100	P	05/03/2023	15:30	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	15:30	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	15:30	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	15:30	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	15:30	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	15:30	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	15:30	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	15:30	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	15:30	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	15:30	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	15:30	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	15:30	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	15:30	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	15:30	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	15:30	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	15:30	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	15:30	LB125269
	Silver	10.0	+/-10.0	U	10.0	P	05/03/2023	15:30	LB125269

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Sodium	2000	+/-2000	U	2000	P	05/03/2023	15:30	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	15:30	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	15:30	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	15:30	LB125269
CCB03	Aluminum	100	+/-100	U	100	P	05/03/2023	16:43	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	16:43	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	16:43	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	16:43	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	16:43	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	16:43	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	16:43	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	16:43	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	16:43	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	16:43	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	16:43	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	16:43	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	16:43	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	16:43	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	16:43	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	16:43	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	16:43	LB125269
	Silver	10.0	+/-10.0	U	10.0	P	05/03/2023	16:43	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	16:43	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	16:43	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	16:43	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	16:43	LB125269
CCB04	Aluminum	100	+/-100	U	100	P	05/03/2023	17:34	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	17:34	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	17:34	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	17:34	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	17:34	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	17:34	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	17:34	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	17:34	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	17:34	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	17:34	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	17:34	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	17:34	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	17:34	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	17:34	LB125269

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	17:34	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	17:34	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	17:34	LB125269
	Silver	1.69	+/-10.0	J	10.0	P	05/03/2023	17:34	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	17:34	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	17:34	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	17:34	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	17:34	LB125269
CCB05	Aluminum	100	+/-100	U	100	P	05/03/2023	18:20	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	18:20	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	18:20	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	18:20	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	18:20	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	18:20	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	18:20	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	18:20	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	18:20	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	18:20	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	18:20	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	18:20	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	18:20	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	18:20	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	18:20	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	18:20	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	18:20	LB125269
	Silver	10.0	+/-10.0	U	10.0	P	05/03/2023	18:20	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	18:20	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	18:20	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	18:20	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	18:20	LB125269
CCB06	Aluminum	100	+/-100	U	100	P	05/03/2023	19:07	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	19:07	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	19:07	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	19:07	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	19:07	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	19:07	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	19:07	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	19:07	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	19:07	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	19:07	LB125269

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Iron	100	+/-100	U	100	P	05/03/2023	19:07	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	19:07	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	19:07	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	19:07	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	19:07	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	19:07	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	19:07	LB125269
	Silver	2.29	+/-10.0	J	10.0	P	05/03/2023	19:07	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	19:07	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	19:07	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	19:07	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	19:07	LB125269

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	05/04/2023	13:47	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	13:47	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	13:47	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	13:47	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	13:47	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	13:47	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	13:47	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	13:47	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	13:47	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	13:47	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	13:47	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	13:47	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	13:47	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	13:47	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	13:47	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	13:47	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	13:47	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	13:47	LB125287
	Sodium	2000	+/-2000	U	2000	P	05/04/2023	13:47	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	13:47	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	13:47	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	13:47	LB125287

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	05/04/2023	14:18	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	14:18	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	14:18	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	14:18	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	14:18	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	14:18	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	14:18	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	14:18	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	14:18	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	14:18	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	14:18	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	14:18	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	14:18	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	14:18	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	14:18	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	14:18	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	14:18	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	14:18	LB125287
	Sodium	2000	+/-2000	U	2000	P	05/04/2023	14:18	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	14:18	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	14:18	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	14:18	LB125287
CCB02	Aluminum	100	+/-100	U	100	P	05/04/2023	15:09	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	15:09	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	15:09	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	15:09	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	15:09	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	15:09	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	15:09	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	15:09	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	15:09	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	15:09	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	15:09	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	15:09	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	15:09	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	15:09	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	15:09	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	15:09	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	15:09	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	15:09	LB125287

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Sodium	2000	+/-2000	U	2000	P	05/04/2023	15:09	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	15:09	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	15:09	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	15:09	LB125287
CCB03	Aluminum	100	+/-100	U	100	P	05/04/2023	15:57	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	15:57	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	15:57	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	15:57	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	15:57	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	15:57	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	15:57	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	15:57	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	15:57	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	15:57	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	15:57	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	15:57	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	15:57	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	15:57	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	15:57	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	15:57	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	15:57	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	15:57	LB125287
	Sodium	1020	+/-2000	J	2000	P	05/04/2023	15:57	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	15:57	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	15:57	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	15:57	LB125287
CCB04	Aluminum	100	+/-100	U	100	P	05/04/2023	16:55	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	16:55	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	16:55	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	16:55	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	16:55	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	16:55	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	16:55	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	16:55	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	16:55	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	16:55	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	16:55	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	16:55	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	16:55	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	16:55	LB125287

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	16:55	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	16:55	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	16:55	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	16:55	LB125287
	Sodium	2000	+/-2000	U	2000	P	05/04/2023	16:55	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	16:55	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	16:55	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	16:55	LB125287
CCB05	Aluminum	100	+/-100	U	100	P	05/04/2023	17:47	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	17:47	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	17:47	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	17:47	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	17:47	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	17:47	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	17:47	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	17:47	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	17:47	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	17:47	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	17:47	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	17:47	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	17:47	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	17:47	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	17:47	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	17:47	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	17:47	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	17:47	LB125287
	Sodium	2000	+/-2000	U	2000	P	05/04/2023	17:47	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	17:47	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	17:47	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	17:47	LB125287
CCB06	Aluminum	100	+/-100	U	100	P	05/04/2023	18:17	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	18:17	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	18:17	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	18:17	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	18:17	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	18:17	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	18:17	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	18:17	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	18:17	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	18:17	LB125287

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Iron	100	+/-100	U	100	P	05/04/2023	18:17	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	18:17	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	18:17	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	18:17	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	18:17	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	18:17	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	18:17	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	18:17	LB125287
	Sodium	2000	+/-2000	U	2000	P	05/04/2023	18:17	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	18:17	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	18:17	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	18:17	LB125287

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	05/11/2023	15:51	LB125428
	Antimony	50.0	+/-50.0	U	50.0	P	05/11/2023	15:51	LB125428
	Arsenic	20.0	+/-20.0	U	20.0	P	05/11/2023	15:51	LB125428
	Barium	100	+/-100	U	100	P	05/11/2023	15:51	LB125428
	Beryllium	6.00	+/-6.00	U	6.00	P	05/11/2023	15:51	LB125428
	Cadmium	6.00	+/-6.00	U	6.00	P	05/11/2023	15:51	LB125428
	Calcium	2000	+/-2000	U	2000	P	05/11/2023	15:51	LB125428
	Chromium	10.0	+/-10.0	U	10.0	P	05/11/2023	15:51	LB125428
	Cobalt	30.0	+/-30.0	U	30.0	P	05/11/2023	15:51	LB125428
	Copper	20.0	+/-20.0	U	20.0	P	05/11/2023	15:51	LB125428
	Iron	100	+/-100	U	100	P	05/11/2023	15:51	LB125428
	Lead	12.0	+/-12.0	U	12.0	P	05/11/2023	15:51	LB125428
	Magnesium	2000	+/-2000	U	2000	P	05/11/2023	15:51	LB125428
	Manganese	20.0	+/-20.0	U	20.0	P	05/11/2023	15:51	LB125428
	Nickel	40.0	+/-40.0	U	40.0	P	05/11/2023	15:51	LB125428
	Potassium	2000	+/-2000	U	2000	P	05/11/2023	15:51	LB125428
	Selenium	20.0	+/-20.0	U	20.0	P	05/11/2023	15:51	LB125428
	Silver	10.0	+/-10.0	U	10.0	P	05/11/2023	15:51	LB125428
	Sodium	2000	+/-2000	U	2000	P	05/11/2023	15:51	LB125428
	Thallium	40.0	+/-40.0	U	40.0	P	05/11/2023	15:51	LB125428
	Vanadium	40.0	+/-40.0	U	40.0	P	05/11/2023	15:51	LB125428
	Zinc	40.0	+/-40.0	U	40.0	P	05/11/2023	15:51	LB125428

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	05/11/2023	16:27	LB125428
	Antimony	50.0	+/-50.0	U	50.0	P	05/11/2023	16:27	LB125428
	Arsenic	20.0	+/-20.0	U	20.0	P	05/11/2023	16:27	LB125428
	Barium	100	+/-100	U	100	P	05/11/2023	16:27	LB125428
	Beryllium	6.00	+/-6.00	U	6.00	P	05/11/2023	16:27	LB125428
	Cadmium	6.00	+/-6.00	U	6.00	P	05/11/2023	16:27	LB125428
	Calcium	2000	+/-2000	U	2000	P	05/11/2023	16:27	LB125428
	Chromium	10.0	+/-10.0	U	10.0	P	05/11/2023	16:27	LB125428
	Cobalt	30.0	+/-30.0	U	30.0	P	05/11/2023	16:27	LB125428
	Copper	20.0	+/-20.0	U	20.0	P	05/11/2023	16:27	LB125428
	Iron	100	+/-100	U	100	P	05/11/2023	16:27	LB125428
	Lead	12.0	+/-12.0	U	12.0	P	05/11/2023	16:27	LB125428
	Magnesium	2000	+/-2000	U	2000	P	05/11/2023	16:27	LB125428
	Manganese	20.0	+/-20.0	U	20.0	P	05/11/2023	16:27	LB125428
	Nickel	40.0	+/-40.0	U	40.0	P	05/11/2023	16:27	LB125428
	Potassium	2000	+/-2000	U	2000	P	05/11/2023	16:27	LB125428
	Selenium	20.0	+/-20.0	U	20.0	P	05/11/2023	16:27	LB125428
	Silver	10.0	+/-10.0	U	10.0	P	05/11/2023	16:27	LB125428
	Sodium	2000	+/-2000	U	2000	P	05/11/2023	16:27	LB125428
	Thallium	40.0	+/-40.0	U	40.0	P	05/11/2023	16:27	LB125428
	Vanadium	40.0	+/-40.0	U	40.0	P	05/11/2023	16:27	LB125428
	Zinc	40.0	+/-40.0	U	40.0	P	05/11/2023	16:27	LB125428
CCB02	Aluminum	100	+/-100	U	100	P	05/11/2023	17:20	LB125428
	Antimony	50.0	+/-50.0	U	50.0	P	05/11/2023	17:20	LB125428
	Arsenic	20.0	+/-20.0	U	20.0	P	05/11/2023	17:20	LB125428
	Barium	100	+/-100	U	100	P	05/11/2023	17:20	LB125428
	Beryllium	6.00	+/-6.00	U	6.00	P	05/11/2023	17:20	LB125428
	Cadmium	6.00	+/-6.00	U	6.00	P	05/11/2023	17:20	LB125428
	Calcium	2000	+/-2000	U	2000	P	05/11/2023	17:20	LB125428
	Chromium	10.0	+/-10.0	U	10.0	P	05/11/2023	17:20	LB125428
	Cobalt	30.0	+/-30.0	U	30.0	P	05/11/2023	17:20	LB125428
	Copper	20.0	+/-20.0	U	20.0	P	05/11/2023	17:20	LB125428
	Iron	100	+/-100	U	100	P	05/11/2023	17:20	LB125428
	Lead	12.0	+/-12.0	U	12.0	P	05/11/2023	17:20	LB125428
	Magnesium	2000	+/-2000	U	2000	P	05/11/2023	17:20	LB125428
	Manganese	20.0	+/-20.0	U	20.0	P	05/11/2023	17:20	LB125428
	Nickel	40.0	+/-40.0	U	40.0	P	05/11/2023	17:20	LB125428
	Potassium	2000	+/-2000	U	2000	P	05/11/2023	17:20	LB125428
	Selenium	20.0	+/-20.0	U	20.0	P	05/11/2023	17:20	LB125428
	Silver	10.0	+/-10.0	U	10.0	P	05/11/2023	17:20	LB125428

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Sodium	2000	+/-2000	U	2000	P	05/11/2023	17:20	LB125428
	Thallium	40.0	+/-40.0	U	40.0	P	05/11/2023	17:20	LB125428
	Vanadium	40.0	+/-40.0	U	40.0	P	05/11/2023	17:20	LB125428
	Zinc	40.0	+/-40.0	U	40.0	P	05/11/2023	17:20	LB125428
CCB03	Aluminum	100	+/-100	U	100	P	05/11/2023	18:21	LB125428
	Antimony	50.0	+/-50.0	U	50.0	P	05/11/2023	18:21	LB125428
	Arsenic	20.0	+/-20.0	U	20.0	P	05/11/2023	18:21	LB125428
	Barium	100	+/-100	U	100	P	05/11/2023	18:21	LB125428
	Beryllium	6.00	+/-6.00	U	6.00	P	05/11/2023	18:21	LB125428
	Cadmium	6.00	+/-6.00	U	6.00	P	05/11/2023	18:21	LB125428
	Calcium	2000	+/-2000	U	2000	P	05/11/2023	18:21	LB125428
	Chromium	10.0	+/-10.0	U	10.0	P	05/11/2023	18:21	LB125428
	Cobalt	30.0	+/-30.0	U	30.0	P	05/11/2023	18:21	LB125428
	Copper	20.0	+/-20.0	U	20.0	P	05/11/2023	18:21	LB125428
	Iron	100	+/-100	U	100	P	05/11/2023	18:21	LB125428
	Lead	12.0	+/-12.0	U	12.0	P	05/11/2023	18:21	LB125428
	Magnesium	2000	+/-2000	U	2000	P	05/11/2023	18:21	LB125428
	Manganese	20.0	+/-20.0	U	20.0	P	05/11/2023	18:21	LB125428
	Nickel	40.0	+/-40.0	U	40.0	P	05/11/2023	18:21	LB125428
	Potassium	2000	+/-2000	U	2000	P	05/11/2023	18:21	LB125428
	Selenium	20.0	+/-20.0	U	20.0	P	05/11/2023	18:21	LB125428
	Silver	10.0	+/-10.0	U	10.0	P	05/11/2023	18:21	LB125428
	Sodium	1440	+/-2000	J	2000	P	05/11/2023	18:21	LB125428
	Thallium	40.0	+/-40.0	U	40.0	P	05/11/2023	18:21	LB125428
	Vanadium	40.0	+/-40.0	U	40.0	P	05/11/2023	18:21	LB125428
	Zinc	40.0	+/-40.0	U	40.0	P	05/11/2023	18:21	LB125428
CCB04	Aluminum	100	+/-100	U	100	P	05/11/2023	19:05	LB125428
	Antimony	50.0	+/-50.0	U	50.0	P	05/11/2023	19:05	LB125428
	Arsenic	20.0	+/-20.0	U	20.0	P	05/11/2023	19:05	LB125428
	Barium	100	+/-100	U	100	P	05/11/2023	19:05	LB125428
	Beryllium	6.00	+/-6.00	U	6.00	P	05/11/2023	19:05	LB125428
	Cadmium	6.00	+/-6.00	U	6.00	P	05/11/2023	19:05	LB125428
	Calcium	2000	+/-2000	U	2000	P	05/11/2023	19:05	LB125428
	Chromium	10.0	+/-10.0	U	10.0	P	05/11/2023	19:05	LB125428
	Cobalt	30.0	+/-30.0	U	30.0	P	05/11/2023	19:05	LB125428
	Copper	20.0	+/-20.0	U	20.0	P	05/11/2023	19:05	LB125428
	Iron	100	+/-100	U	100	P	05/11/2023	19:05	LB125428
	Lead	12.0	+/-12.0	U	12.0	P	05/11/2023	19:05	LB125428
	Magnesium	2000	+/-2000	U	2000	P	05/11/2023	19:05	LB125428
	Manganese	20.0	+/-20.0	U	20.0	P	05/11/2023	19:05	LB125428

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Nickel	40.0	+/-40.0	U	40.0	P	05/11/2023	19:05	LB125428
	Potassium	2000	+/-2000	U	2000	P	05/11/2023	19:05	LB125428
	Selenium	20.0	+/-20.0	U	20.0	P	05/11/2023	19:05	LB125428
	Silver	10.0	+/-10.0	U	10.0	P	05/11/2023	19:05	LB125428
	Sodium	929	+/-2000	J	2000	P	05/11/2023	19:05	LB125428
	Thallium	40.0	+/-40.0	U	40.0	P	05/11/2023	19:05	LB125428
	Vanadium	40.0	+/-40.0	U	40.0	P	05/11/2023	19:05	LB125428
	Zinc	40.0	+/-40.0	U	40.0	P	05/11/2023	19:05	LB125428
CCB05	Aluminum	100	+/-100	U	100	P	05/11/2023	19:53	LB125428
	Antimony	50.0	+/-50.0	U	50.0	P	05/11/2023	19:53	LB125428
	Arsenic	20.0	+/-20.0	U	20.0	P	05/11/2023	19:53	LB125428
	Barium	100	+/-100	U	100	P	05/11/2023	19:53	LB125428
	Beryllium	6.00	+/-6.00	U	6.00	P	05/11/2023	19:53	LB125428
	Cadmium	6.00	+/-6.00	U	6.00	P	05/11/2023	19:53	LB125428
	Calcium	2000	+/-2000	U	2000	P	05/11/2023	19:53	LB125428
	Chromium	10.0	+/-10.0	U	10.0	P	05/11/2023	19:53	LB125428
	Cobalt	30.0	+/-30.0	U	30.0	P	05/11/2023	19:53	LB125428
	Copper	20.0	+/-20.0	U	20.0	P	05/11/2023	19:53	LB125428
	Iron	100	+/-100	U	100	P	05/11/2023	19:53	LB125428
	Lead	12.0	+/-12.0	U	12.0	P	05/11/2023	19:53	LB125428
	Magnesium	2000	+/-2000	U	2000	P	05/11/2023	19:53	LB125428
	Manganese	20.0	+/-20.0	U	20.0	P	05/11/2023	19:53	LB125428
	Nickel	40.0	+/-40.0	U	40.0	P	05/11/2023	19:53	LB125428
	Potassium	2000	+/-2000	U	2000	P	05/11/2023	19:53	LB125428
	Selenium	20.0	+/-20.0	U	20.0	P	05/11/2023	19:53	LB125428
	Silver	10.0	+/-10.0	U	10.0	P	05/11/2023	19:53	LB125428
	Sodium	1800	+/-2000	J	2000	P	05/11/2023	19:53	LB125428
	Thallium	40.0	+/-40.0	U	40.0	P	05/11/2023	19:53	LB125428
	Vanadium	40.0	+/-40.0	U	40.0	P	05/11/2023	19:53	LB125428
	Zinc	40.0	+/-40.0	U	40.0	P	05/11/2023	19:53	LB125428
CCB06	Aluminum	100	+/-100	U	100	P	05/11/2023	20:41	LB125428
	Antimony	50.0	+/-50.0	U	50.0	P	05/11/2023	20:41	LB125428
	Arsenic	20.0	+/-20.0	U	20.0	P	05/11/2023	20:41	LB125428
	Barium	100	+/-100	U	100	P	05/11/2023	20:41	LB125428
	Beryllium	6.00	+/-6.00	U	6.00	P	05/11/2023	20:41	LB125428
	Cadmium	6.00	+/-6.00	U	6.00	P	05/11/2023	20:41	LB125428
	Calcium	2000	+/-2000	U	2000	P	05/11/2023	20:41	LB125428
	Chromium	10.0	+/-10.0	U	10.0	P	05/11/2023	20:41	LB125428
	Cobalt	30.0	+/-30.0	U	30.0	P	05/11/2023	20:41	LB125428
	Copper	20.0	+/-20.0	U	20.0	P	05/11/2023	20:41	LB125428

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Iron	100	+/-100	U	100	P	05/11/2023	20:41	LB125428
	Lead	12.0	+/-12.0	U	12.0	P	05/11/2023	20:41	LB125428
	Magnesium	2000	+/-2000	U	2000	P	05/11/2023	20:41	LB125428
	Manganese	20.0	+/-20.0	U	20.0	P	05/11/2023	20:41	LB125428
	Nickel	40.0	+/-40.0	U	40.0	P	05/11/2023	20:41	LB125428
	Potassium	2000	+/-2000	U	2000	P	05/11/2023	20:41	LB125428
	Selenium	20.0	+/-20.0	U	20.0	P	05/11/2023	20:41	LB125428
	Silver	10.0	+/-10.0	U	10.0	P	05/11/2023	20:41	LB125428
	Sodium	827	+/-2000	J	2000	P	05/11/2023	20:41	LB125428
	Thallium	40.0	+/-40.0	U	40.0	P	05/11/2023	20:41	LB125428
	Vanadium	40.0	+/-40.0	U	40.0	P	05/11/2023	20:41	LB125428
	Zinc	40.0	+/-40.0	U	40.0	P	05/11/2023	20:41	LB125428
CCB07	Aluminum	100	+/-100	U	100	P	05/11/2023	21:08	LB125428
	Antimony	50.0	+/-50.0	U	50.0	P	05/11/2023	21:08	LB125428
	Arsenic	20.0	+/-20.0	U	20.0	P	05/11/2023	21:08	LB125428
	Barium	100	+/-100	U	100	P	05/11/2023	21:08	LB125428
	Beryllium	6.00	+/-6.00	U	6.00	P	05/11/2023	21:08	LB125428
	Cadmium	6.00	+/-6.00	U	6.00	P	05/11/2023	21:08	LB125428
	Calcium	2000	+/-2000	U	2000	P	05/11/2023	21:08	LB125428
	Chromium	10.0	+/-10.0	U	10.0	P	05/11/2023	21:08	LB125428
	Cobalt	30.0	+/-30.0	U	30.0	P	05/11/2023	21:08	LB125428
	Copper	20.0	+/-20.0	U	20.0	P	05/11/2023	21:08	LB125428
	Iron	100	+/-100	U	100	P	05/11/2023	21:08	LB125428
	Lead	12.0	+/-12.0	U	12.0	P	05/11/2023	21:08	LB125428
	Magnesium	2000	+/-2000	U	2000	P	05/11/2023	21:08	LB125428
	Manganese	20.0	+/-20.0	U	20.0	P	05/11/2023	21:08	LB125428
	Nickel	40.0	+/-40.0	U	40.0	P	05/11/2023	21:08	LB125428
	Potassium	2000	+/-2000	U	2000	P	05/11/2023	21:08	LB125428
	Selenium	20.0	+/-20.0	U	20.0	P	05/11/2023	21:08	LB125428
	Silver	10.0	+/-10.0	U	10.0	P	05/11/2023	21:08	LB125428
	Sodium	590	+/-2000	J	2000	P	05/11/2023	21:08	LB125428
	Thallium	40.0	+/-40.0	U	40.0	P	05/11/2023	21:08	LB125428
	Vanadium	40.0	+/-40.0	U	40.0	P	05/11/2023	21:08	LB125428
	Zinc	40.0	+/-40.0	U	40.0	P	05/11/2023	21:08	LB125428

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Metals
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PREPARATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB152487BL		**WATER**		**Batch Number:**	**PB152487**		**Prep Date:**	**04/28/2023**	
	Mercury	0.20	<0.20	U	0.20	CV	04/28/2023	13:27	LB125204

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB152538BL		**WATER**		**Batch Number:**	**PB152538**		**Prep Date:**	**05/02/2023**	
	Mercury	0.20	<0.20	U	0.20	CV	05/02/2023	16:22	LB125251

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Metals
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PREPARATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB152450BL		**WATER**		**Batch Number:**	**PB152450**		**Prep Date:**	**05/03/2023**	
	Aluminum	50.0	<50.0	U	50.0	P	05/03/2023	18:39	LB125269
	Antimony	25.0	<25.0	U	25.0	P	05/03/2023	18:39	LB125269
	Arsenic	10.0	<10.0	U	10.0	P	05/03/2023	18:39	LB125269
	Barium	50.0	<50.0	U	50.0	P	05/03/2023	18:39	LB125269
	Beryllium	3.00	<3.00	U	3.00	P	05/03/2023	18:39	LB125269
	Cadmium	3.00	<3.00	U	3.00	P	05/03/2023	18:39	LB125269
	Calcium	1000	<1000	U	1000	P	05/03/2023	18:39	LB125269
	Chromium	5.00	<5.00	U	5.00	P	05/03/2023	18:39	LB125269
	Cobalt	15.0	<15.0	U	15.0	P	05/03/2023	18:39	LB125269
	Copper	10.0	<10.0	U	10.0	P	05/03/2023	18:39	LB125269
	Iron	50.0	<50.0	U	50.0	P	05/03/2023	18:39	LB125269
	Lead	6.00	<6.00	U	6.00	P	05/03/2023	18:39	LB125269
	Magnesium	1000	<1000	U	1000	P	05/03/2023	18:39	LB125269
	Manganese	10.0	<10.0	U	10.0	P	05/03/2023	18:39	LB125269
	Nickel	20.0	<20.0	U	20.0	P	05/03/2023	18:39	LB125269
	Potassium	1000	<1000	U	1000	P	05/03/2023	18:39	LB125269
	Selenium	10.0	<10.0	U	10.0	P	05/03/2023	18:39	LB125269
	Silver	0.95	<5.00	J	5.00	P	05/03/2023	18:39	LB125269
	Sodium	1000	<1000	U	1000	P	05/03/2023	18:39	LB125269
	Thallium	20.0	<20.0	U	20.0	P	05/03/2023	18:39	LB125269
	Vanadium	20.0	<20.0	U	20.0	P	05/03/2023	18:39	LB125269
	Zinc	20.0	<20.0	U	20.0	P	05/03/2023	18:39	LB125269

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Metals
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INTERFERENCE CHECK SAMPLE

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	260000	255000	102	216000	294000	05/03/2023	14:19	LB125269
	Antimony	2.06			-50	50	05/03/2023	14:19	LB125269
	Arsenic	-0.24			-20	20	05/03/2023	14:19	LB125269
	Barium	12.2	6.0	203	-94	106	05/03/2023	14:19	LB125269
	Beryllium	1.20			-6	6	05/03/2023	14:19	LB125269
	Cadmium	1.52	1.0	152	-5	7	05/03/2023	14:19	LB125269
	Calcium	245000	245000	100	208000	282000	05/03/2023	14:19	LB125269
	Chromium	52.7	52.0	101	42	62	05/03/2023	14:19	LB125269
	Cobalt	2.18			-30	30	05/03/2023	14:19	LB125269
	Copper	12.5	2.0	625	-18	22	05/03/2023	14:19	LB125269
	Iron	97400	101000	96	85600	116500	05/03/2023	14:19	LB125269
	Lead	-2.76			-12	12	05/03/2023	14:19	LB125269
	Magnesium	256000	255000	100	216000	294000	05/03/2023	14:19	LB125269
	Manganese	12.3	7.0	176	-13	27	05/03/2023	14:19	LB125269
	Nickel	3.56	2.0	178	-38	42	05/03/2023	14:19	LB125269
	Potassium	-84.5			0	0	05/03/2023	14:19	LB125269
	Selenium	5.85			-20	20	05/03/2023	14:19	LB125269
	Silver	0.32			-10	10	05/03/2023	14:19	LB125269
	Sodium	-96.6			0	0	05/03/2023	14:19	LB125269
	Thallium	-10.8			-40	40	05/03/2023	14:19	LB125269
	Vanadium	0.27			-40	40	05/03/2023	14:19	LB125269
	Zinc	-3.16			-40	40	05/03/2023	14:19	LB125269
ICSAB01	Aluminum	251000	247000	102	209000	285000	05/03/2023	14:23	LB125269
	Antimony	610	618	99	525	711	05/03/2023	14:23	LB125269
	Arsenic	105	104	101	88.4	120	05/03/2023	14:23	LB125269
	Barium	535	537	100	437	637	05/03/2023	14:23	LB125269
	Beryllium	493	495	100	420	570	05/03/2023	14:23	LB125269
	Cadmium	999	972	103	826	1120	05/03/2023	14:23	LB125269
	Calcium	237000	235000	101	199000	271000	05/03/2023	14:23	LB125269
	Chromium	508	542	94	460	624	05/03/2023	14:23	LB125269
	Cobalt	500	476	105	404	548	05/03/2023	14:23	LB125269
	Copper	502	511	98	434	588	05/03/2023	14:23	LB125269
	Iron	93500	99300	94	84400	114500	05/03/2023	14:23	LB125269
	Lead	48.1	49.0	98	37	61	05/03/2023	14:23	LB125269
	Magnesium	248000	248000	100	210000	286000	05/03/2023	14:23	LB125269
	Manganese	519	507	102	430	584	05/03/2023	14:23	LB125269
	Nickel	995	954	104	810	1100	05/03/2023	14:23	LB125269
	Potassium	-42.0			0	0	05/03/2023	14:23	LB125269
	Selenium	51.6	46.0	112	26	66	05/03/2023	14:23	LB125269
	Silver	193	201	96	170	232	05/03/2023	14:23	LB125269
	Sodium	-103			0	0	05/03/2023	14:23	LB125269
	Thallium	95.8	108	89	68	148	05/03/2023	14:23	LB125269
	Vanadium	482	491	98	417	565	05/03/2023	14:23	LB125269
	Zinc	1020	952	107	809	1095	05/03/2023	14:23	LB125269
ICSA01	Aluminum	256000	255000	100	216000	294000	05/04/2023	13:55	LB125287

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Metals
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INTERFERENCE CHECK SAMPLE

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Antimony	-0.32			-50	50	05/04/2023	13:55	LB125287
	Arsenic	-0.91			-20	20	05/04/2023	13:55	LB125287
	Barium	7.84	6.0	131	-94	106	05/04/2023	13:55	LB125287
	Beryllium	1.32			-6	6	05/04/2023	13:55	LB125287
	Cadmium	2.32	1.0	232	-5	7	05/04/2023	13:55	LB125287
	Calcium	245000	245000	100	208000	282000	05/04/2023	13:55	LB125287
	Chromium	55.1	52.0	106	42	62	05/04/2023	13:55	LB125287
	Cobalt	1.81			-30	30	05/04/2023	13:55	LB125287
	Copper	2.82	2.0	141	-18	22	05/04/2023	13:55	LB125287
	Iron	96700	101000	96	85600	116500	05/04/2023	13:55	LB125287
	Lead	-1.13			-12	12	05/04/2023	13:55	LB125287
	Magnesium	256000	255000	100	216000	294000	05/04/2023	13:55	LB125287
	Manganese	13.4	7.0	191	-13	27	05/04/2023	13:55	LB125287
	Nickel	3.31	2.0	166	-38	42	05/04/2023	13:55	LB125287
	Potassium	-57.3			0	0	05/04/2023	13:55	LB125287
	Selenium	2.64			-20	20	05/04/2023	13:55	LB125287
	Silver	-0.32			-10	10	05/04/2023	13:55	LB125287
	Sodium	-50.2			0	0	05/04/2023	13:55	LB125287
	Thallium	-6.74			-40	40	05/04/2023	13:55	LB125287
	Vanadium	3.92			-40	40	05/04/2023	13:55	LB125287
	Zinc	-3.08			-40	40	05/04/2023	13:55	LB125287
ICSAB01	Aluminum	260000	247000	105	209000	285000	05/04/2023	13:58	LB125287
	Antimony	621	618	100	525	711	05/04/2023	13:58	LB125287
	Arsenic	103	104	99	88.4	120	05/04/2023	13:58	LB125287
	Barium	532	537	99	437	637	05/04/2023	13:58	LB125287
	Beryllium	520	495	105	420	570	05/04/2023	13:58	LB125287
	Cadmium	1030	972	106	826	1120	05/04/2023	13:58	LB125287
	Calcium	249000	235000	106	199000	271000	05/04/2023	13:58	LB125287
	Chromium	554	542	102	460	624	05/04/2023	13:58	LB125287
	Cobalt	506	476	106	404	548	05/04/2023	13:58	LB125287
	Copper	498	511	98	434	588	05/04/2023	13:58	LB125287
	Iron	99700	99300	100	84400	114500	05/04/2023	13:58	LB125287
	Lead	49.9	49.0	102	37	61	05/04/2023	13:58	LB125287
	Magnesium	261000	248000	105	210000	286000	05/04/2023	13:58	LB125287
	Manganese	529	507	104	430	584	05/04/2023	13:58	LB125287
	Nickel	1010	954	106	810	1100	05/04/2023	13:58	LB125287
	Potassium	-92.0			0	0	05/04/2023	13:58	LB125287
	Selenium	53.1	46.0	115	26	66	05/04/2023	13:58	LB125287
	Silver	221	201	110	170	232	05/04/2023	13:58	LB125287
	Sodium	-54.2			0	0	05/04/2023	13:58	LB125287
	Thallium	96.5	108	89	68	148	05/04/2023	13:58	LB125287
	Vanadium	501	491	102	417	565	05/04/2023	13:58	LB125287
	Zinc	1070	952	112	809	1095	05/04/2023	13:58	LB125287
ICSA01	Aluminum	246000	255000	96	216000	294000	05/11/2023	15:59	LB125428
	Antimony	1.23			-50	50	05/11/2023	15:59	LB125428

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Metals
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INTERFERENCE CHECK SAMPLE

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	-2.88			-20	20	05/11/2023	15:59	LB125428
	Barium	6.79	6.0	113	-94	106	05/11/2023	15:59	LB125428
	Beryllium	0.85			-6	6	05/11/2023	15:59	LB125428
	Cadmium	3.22	1.0	322	-5	7	05/11/2023	15:59	LB125428
	Calcium	244000	245000	100	208000	282000	05/11/2023	15:59	LB125428
	Chromium	56.4	52.0	108	42	62	05/11/2023	15:59	LB125428
	Cobalt	2.15			-30	30	05/11/2023	15:59	LB125428
	Copper	-14.1	2.0	705	-18	22	05/11/2023	15:59	LB125428
	Iron	100000	101000	99	85600	116500	05/11/2023	15:59	LB125428
	Lead	-3.53			-12	12	05/11/2023	15:59	LB125428
	Magnesium	257000	255000	101	216000	294000	05/11/2023	15:59	LB125428
	Manganese	13.5	7.0	193	-13	27	05/11/2023	15:59	LB125428
	Nickel	3.27	2.0	164	-38	42	05/11/2023	15:59	LB125428
	Potassium	-35.6			0	0	05/11/2023	15:59	LB125428
	Selenium	-0.65			-20	20	05/11/2023	15:59	LB125428
	Silver	0.90			-10	10	05/11/2023	15:59	LB125428
	Sodium	-22.9			0	0	05/11/2023	15:59	LB125428
	Thallium	-7.19			-40	40	05/11/2023	15:59	LB125428
	Vanadium	2.33			-40	40	05/11/2023	15:59	LB125428
	Zinc	-3.28			-40	40	05/11/2023	15:59	LB125428
ICSAB01	Aluminum	242000	247000	98	209000	285000	05/11/2023	16:03	LB125428
	Antimony	600	618	97	525	711	05/11/2023	16:03	LB125428
	Arsenic	102	104	98	88.4	120	05/11/2023	16:03	LB125428
	Barium	526	537	98	437	637	05/11/2023	16:03	LB125428
	Beryllium	539	495	109	420	570	05/11/2023	16:03	LB125428
	Cadmium	1030	972	106	826	1120	05/11/2023	16:03	LB125428
	Calcium	242000	235000	103	199000	271000	05/11/2023	16:03	LB125428
	Chromium	555	542	102	460	624	05/11/2023	16:03	LB125428
	Cobalt	499	476	105	404	548	05/11/2023	16:03	LB125428
	Copper	475	511	93	434	588	05/11/2023	16:03	LB125428
	Iron	93500	99300	94	84400	114500	05/11/2023	16:03	LB125428
	Lead	47.5	49.0	97	37	61	05/11/2023	16:03	LB125428
	Magnesium	254000	248000	102	210000	286000	05/11/2023	16:03	LB125428
	Manganese	515	507	102	430	584	05/11/2023	16:03	LB125428
	Nickel	988	954	104	810	1100	05/11/2023	16:03	LB125428
	Potassium	-24.2			0	0	05/11/2023	16:03	LB125428
	Selenium	42.8	46.0	93	26	66	05/11/2023	16:03	LB125428
	Silver	209	201	104	170	232	05/11/2023	16:03	LB125428
	Sodium	-14.5			0	0	05/11/2023	16:03	LB125428
	Thallium	98.5	108	91	68	148	05/11/2023	16:03	LB125428
	Vanadium	501	491	102	417	565	05/11/2023	16:03	LB125428
	Zinc	1030	952	108	809	1095	05/11/2023	16:03	LB125428

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: GEI Consultants, Inc., P.C. **level:** low **sdg no.:** O2521

contract: GEIC06 **lab code:** CHEM **case no.:** O2521 **sas no.:** O2521

matrix: Water **sample id:** O2521-07 **client id:** GMW-7MS

Percent Solids for Sample: NA **Spiked ID:** O2521-09 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1630		2230		1000	-60	N	P
Antimony	ug/L	75 - 125	403		2.16	J	400	100		P
Arsenic	ug/L	75 - 125	405		10.0	U	400	101		P
Barium	ug/L	75 - 125	514		290		100	224	N	P
Beryllium	ug/L	75 - 125	87.8		3.00	U	100	88		P
Cadmium	ug/L	75 - 125	90.8		1.47	J	100	89		P
Calcium	ug/L	75 - 125	150000		145000		500	862		P
Chromium	ug/L	75 - 125	180		9.98		200	85		P
Cobalt	ug/L	75 - 125	94.9		2.59	J	100	92		P
Copper	ug/L	75 - 125	222		61.7		150	107		P
Iron	ug/L	75 - 125	18800		4730		1500	939	N	P
Lead	ug/L	75 - 125	552		49.5		500	101		P
Magnesium	ug/L	75 - 125	24900		26900		1000	-206		P
Manganese	ug/L	75 - 125	979		249		100	730	N	P
Mercury	ug/L	75 - 125	4.62		0.083	J	4.0	113		CV
Nickel	ug/L	75 - 125	247		20.0		250	91		P
Potassium	ug/L	75 - 125	39700		20900		5000	377		P
Selenium	ug/L	75 - 125	972		10.0	U	1000	97		P
Silver	ug/L	75 - 125	36.7		5.00	U	37.5	98		P
Sodium	ug/L	75 - 125	17700		32800		1500	-1005		P
Thallium	ug/L	75 - 125	897		20.0	U	1000	90		P
Vanadium	ug/L	75 - 125	159		4.55	J	150	103		P
Zinc	ug/L	75 - 125	212		185		100	27	N	P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: GEI Consultants, Inc., P.C. **level:** low **sdg no.:** O2521

contract: GEIC06 **lab code:** CHEM **case no.:** O2521 **sas no.:** O2521

matrix: Water **sample id:** O2521-07 **client id:** GMW-7MSD

Percent Solids for Sample: NA **Spiked ID:** O2521-10 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1640		2230		1000	-59	N	P
Antimony	ug/L	75 - 125	416		2.16	J	400	103		P
Arsenic	ug/L	75 - 125	418		10.0	U	400	104		P
Barium	ug/L	75 - 125	522		290		100	232	N	P
Beryllium	ug/L	75 - 125	89.2		3.00	U	100	89		P
Cadmium	ug/L	75 - 125	94.2		1.47	J	100	93		P
Calcium	ug/L	75 - 125	153000		145000		500	1561		P
Chromium	ug/L	75 - 125	187		9.98		200	89		P
Cobalt	ug/L	75 - 125	98.5		2.59	J	100	96		P
Copper	ug/L	75 - 125	227		61.7		150	111		P
Iron	ug/L	75 - 125	19300		4730		1500	969	N	P
Lead	ug/L	75 - 125	571		49.5		500	104		P
Magnesium	ug/L	75 - 125	25300		26900		1000	-165		P
Manganese	ug/L	75 - 125	990		249		100	741	N	P
Mercury	ug/L	75 - 125	4.36		0.083	J	4.0	107		CV
Nickel	ug/L	75 - 125	255		20.0		250	94		P
Potassium	ug/L	75 - 125	40800		20900		5000	398		P
Selenium	ug/L	75 - 125	1010		10.0	U	1000	101		P
Silver	ug/L	75 - 125	37.1		5.00	U	37.5	99		P
Sodium	ug/L	75 - 125	18200		32800		1500	-972		P
Thallium	ug/L	75 - 125	932		20.0	U	1000	93		P
Vanadium	ug/L	75 - 125	163		4.55	J	150	105		P
Zinc	ug/L	75 - 125	215		185		100	30	N	P

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metals
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MATRIX SPIKE SUMMARY

client: GEI Consultants, Inc., P.C. **level:** low **sdg no.:** O2521

contract: GEIC06 **lab code:** CHEM **case no.:** O2521 **sas no.:** O2521

matrix: Water **sample id:** O2521-08 **client id:** GMW-7MS

Percent Solids for Sample: NA **Spiked ID:** O2521-11 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1050		145		1000	91		P
Antimony	ug/L	75 - 125	396		25.0	U	400	99		P
Arsenic	ug/L	75 - 125	399		10.0	U	400	100		P
Barium	ug/L	75 - 125	389		233		100	155	N	P
Beryllium	ug/L	75 - 125	86.5		3.00	U	100	86		P
Cadmium	ug/L	75 - 125	87.9		0.23	J	100	88		P
Calcium	ug/L	75 - 125	134000		137000		500	-690		P
Chromium	ug/L	75 - 125	175		5.00	U	200	88		P
Cobalt	ug/L	75 - 125	92.6		0.84	J	100	92		P
Copper	ug/L	75 - 125	150		22.3		150	85		P
Iron	ug/L	75 - 125	1450		24.9	J	1500	95		P
Lead	ug/L	75 - 125	462		6.00	U	500	92		P
Magnesium	ug/L	75 - 125	23800		25800		1000	-198		P
Manganese	ug/L	75 - 125	713		207		100	506	N	P
Mercury	ug/L	75 - 125	3.61		0.20	U	4.0	90		CV
Nickel	ug/L	75 - 125	238		8.17	J	250	92		P
Potassium	ug/L	75 - 125	39000		20500		5000	371		P
Selenium	ug/L	75 - 125	977		10.0	U	1000	98		P
Silver	ug/L	75 - 125	36.8		5.00	U	37.5	98		P
Sodium	ug/L	75 - 125	18100		32800		1500	-983		P
Thallium	ug/L	75 - 125	889		20.0	U	1000	89		P
Vanadium	ug/L	75 - 125	137		20.0	U	150	91		P
Zinc	ug/L	75 - 125	117		70.2		100	47	N	P

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MATRIX SPIKE DUPLICATE SUMMARY

client: GEI Consultants, Inc., P.C. **level:** low **sdg no.:** O2521

contract: GEIC06 **lab code:** CHEM **case no.:** O2521 **sas no.:** O2521

matrix: Water **sample id:** O2521-08 **client id:** GMW-7MSD

Percent Solids for Sample: NA **Spiked ID:** O2521-12 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1040		145		1000	89		P
Antimony	ug/L	75 - 125	395		25.0	U	400	99		P
Arsenic	ug/L	75 - 125	400		10.0	U	400	100		P
Barium	ug/L	75 - 125	383		233		100	149	N	P
Beryllium	ug/L	75 - 125	85.9		3.00	U	100	86		P
Cadmium	ug/L	75 - 125	88.5		0.23	J	100	88		P
Calcium	ug/L	75 - 125	131000		137000		500	-1149		P
Chromium	ug/L	75 - 125	173		5.00	U	200	86		P
Cobalt	ug/L	75 - 125	93.1		0.84	J	100	92		P
Copper	ug/L	75 - 125	151		22.3		150	85		P
Iron	ug/L	75 - 125	1430		24.9	J	1500	94		P
Lead	ug/L	75 - 125	466		6.00	U	500	93		P
Magnesium	ug/L	75 - 125	23300		25800		1000	-251		P
Manganese	ug/L	75 - 125	706		207		100	499	N	P
Mercury	ug/L	75 - 125	3.50		0.20	U	4.0	88		CV
Nickel	ug/L	75 - 125	240		8.17	J	250	93		P
Potassium	ug/L	75 - 125	37800		20500		5000	346		P
Selenium	ug/L	75 - 125	977		10.0	U	1000	98		P
Silver	ug/L	75 - 125	36.4		5.00	U	37.5	97		P
Sodium	ug/L	75 - 125	17500		32800		1500	-1023		P
Thallium	ug/L	75 - 125	890		20.0	U	1000	89		P
Vanadium	ug/L	75 - 125	136		20.0	U	150	91		P
Zinc	ug/L	75 - 125	114		70.2		100	44	N	P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Matrix: Water **Level:** LOW **Client ID:** GMW-7A

Sample ID: O2521-07 **Spiked ID:** O2521-07A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	3090		2230		1000	86		P
Barium	ug/L	75 - 125	391		290		100	101		P
Iron	ug/L	75 - 125	6080		4730		1500	90		P
Manganese	ug/L	75 - 125	353		249		100	104		P
Zinc	ug/L	75 - 125	284		185		100	99		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Matrix: Water **Level:** LOW **Client ID:** GMW-7A

Sample ID: O2521-08 **Spiked ID:** O2521-08A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	ug/L	75 - 125	336		233		100	102		P
Manganese	ug/L	75 - 125	309		207		100	102		P
Zinc	ug/L	75 - 125	172		70.2		100	102		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **Level:** LOW **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Matrix: Water **Sample ID:** O2521-07 **Client ID:** GMW-7DUP

Percent Solids for Sample: NA **Duplicate ID** O2521-07DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	2230		2140		4		P
Antimony	ug/L	20	2.16	J	2.11	J	2		P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	290		288		1		P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	1.47	J	1.47	J	0		P
Calcium	ug/L	20	145000		144000		1		P
Chromium	ug/L	20	9.98		9.68		3		P
Cobalt	ug/L	20	2.59	J	2.61	J	1		P
Copper	ug/L	20	61.7		61.2		1		P
Iron	ug/L	20	4730		4590		3		P
Lead	ug/L	20	49.5		49.5		0		P
Magnesium	ug/L	20	26900		26900		0		P
Manganese	ug/L	20	249		249		0		P
Mercury	ug/L	20	0.083	J	0.090	J	8		CV
Nickel	ug/L	20	20.0		19.9	J	1		P
Potassium	ug/L	20	20900		20500		2		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	32800		32200		2		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	4.55	J	4.32	J	5		P
Zinc	ug/L	20	185		182		2		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **Level:** LOW **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Matrix: Water **Sample ID:** O2521-08 **Client ID:** GMW-7DUP

Percent Solids for Sample: NA **Duplicate ID** O2521-08DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.20	U	0.20	U			CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **Level:** LOW **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Matrix: Water **Sample ID:** O2521-09 **Client ID:** GMW-7MSD

Percent Solids for Sample: NA **Duplicate ID** O2521-10 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	1630		1640		1		P
Antimony	ug/L	20	403		416		3		P
Arsenic	ug/L	20	405		418		3		P
Barium	ug/L	20	514		522		2		P
Beryllium	ug/L	20	87.8		89.2		2		P
Cadmium	ug/L	20	90.8		94.2		4		P
Calcium	ug/L	20	150000		153000		2		P
Chromium	ug/L	20	180		187		4		P
Cobalt	ug/L	20	94.9		98.5		4		P
Copper	ug/L	20	222		227		2		P
Iron	ug/L	20	18800		19300		3		P
Lead	ug/L	20	552		571		3		P
Magnesium	ug/L	20	24900		25300		2		P
Manganese	ug/L	20	979		990		1		P
Mercury	ug/L	20	4.62		4.36		6		CV
Nickel	ug/L	20	247		255		3		P
Potassium	ug/L	20	39700		40800		3		P
Selenium	ug/L	20	972		1010		4		P
Silver	ug/L	20	36.7		37.1		1		P
Sodium	ug/L	20	17700		18200		3		P
Thallium	ug/L	20	897		932		4		P
Vanadium	ug/L	20	159		163		2		P
Zinc	ug/L	20	212		215		1		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **Level:** LOW **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Matrix: Water **Sample ID:** O2521-11 **Client ID:** GMW-7MSD

Percent Solids for Sample: NA **Duplicate ID** O2521-12 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	1050		1040		1		P
Antimony	ug/L	20	396		395		0		P
Arsenic	ug/L	20	399		400		0		P
Barium	ug/L	20	389		383		2		P
Beryllium	ug/L	20	86.5		85.9		1		P
Cadmium	ug/L	20	87.9		88.5		1		P
Calcium	ug/L	20	134000		131000		2		P
Chromium	ug/L	20	175		173		1		P
Cobalt	ug/L	20	92.6		93.1		1		P
Copper	ug/L	20	150		151		1		P
Iron	ug/L	20	1450		1430		1		P
Lead	ug/L	20	462		466		1		P
Magnesium	ug/L	20	23800		23300		2		P
Manganese	ug/L	20	713		706		1		P
Mercury	ug/L	20	3.61		3.50		3		CV
Nickel	ug/L	20	238		240		1		P
Potassium	ug/L	20	39000		37800		3		P
Selenium	ug/L	20	977		977		0		P
Silver	ug/L	20	36.8		36.4		1		P
Sodium	ug/L	20	18100		17500		3		P
Thallium	ug/L	20	889		890		0		P
Vanadium	ug/L	20	137		136		1		P
Zinc	ug/L	20	117		114		3		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB152450BS							
Aluminum	ug/L	1000	938		94	80 - 120	P
Antimony	ug/L	400	388		97	80 - 120	P
Arsenic	ug/L	400	390		98	80 - 120	P
Barium	ug/L	100	105		105	80 - 120	P
Beryllium	ug/L	100	93.5		94	80 - 120	P
Cadmium	ug/L	100	91.1		91	80 - 120	P
Calcium	ug/L	500	472	J	94	80 - 120	P
Chromium	ug/L	200	168		84	80 - 120	P
Cobalt	ug/L	100	93.5		94	80 - 120	P
Copper	ug/L	150	148		99	80 - 120	P
Iron	ug/L	1500	1370		91	80 - 120	P
Lead	ug/L	500	479		96	80 - 120	P
Magnesium	ug/L	1000	956	J	96	80 - 120	P
Manganese	ug/L	100	103		103	80 - 120	P
Nickel	ug/L	250	240		96	80 - 120	P
Potassium	ug/L	5000	4520		90	80 - 120	P
Selenium	ug/L	1000	944		94	80 - 120	P
Silver	ug/L	37.5	32.9		88	80 - 120	P
Sodium	ug/L	1500	1200		80	80 - 120	P
Thallium	ug/L	1000	944		94	80 - 120	P
Vanadium	ug/L	150	139		93	80 - 120	P
Zinc	ug/L	100	98.0		98	80 - 120	P

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Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB152487BS							
Mercury	ug/L	4.0	3.69		92	80 - 120	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB152538BS							
Mercury	ug/L	4.0	3.53		88	80 - 120	CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

GMW-7L

Lab Name: Chemtech Consulting Group **Contract:** GEIC06

Lab Code: CHEM **Lb No.:** lb125287 **Lab Sample ID :** O2521-07L **SDG No.:** O2521

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	2230		2000		10		P
Antimony	2.16	J	125	U	100.0		P
Arsenic	10.0	U	50.0	U			P
Barium	290		279		4		P
Beryllium	3.00	U	15.0	U			P
Cadmium	1.47	J	1.31	J	11		P
Calcium	145000		138000		5		P
Chromium	9.98		7.35	J	26		P
Cobalt	2.59	J	2.44	J	6		P
Copper	61.7		62.6		1		P
Iron	4730		4330		8		P
Lead	49.5		47.4		4		P
Magnesium	26900		26800		0		P
Manganese	249		244		2		P
Mercury	0.083	J	1.00	U	100.0		CV
Nickel	20.0		19.7	J	1		P
Potassium	20900		18800		10		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	32800		29100		11		P
Thallium	20.0	U	100	U			P
Vanadium	4.55	J	100	U	100.0		P
Zinc	185		170		8		P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

GMW-7L

Lab Name: Chemtech Consulting Group **Contract:** GEIC06

Lab Code: CHEM **Lb No.:** lb125251 **Lab Sample ID :** O2521-08L **SDG No.:** O2521

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.20	U	1.00	U			CV

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Instrument ID: _____ **Date:** _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Instrument ID: _____ **Date:** _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Instrument ID: _____ **Date:** _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Method:**

Case No.: O2521 **SAS No.:** O2521

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB152450**						
O2521-01	GMW-1	SAM	WATER	05/03/2023	50.0	25.0	
O2521-02	GMW-1	SAM	WATER	05/03/2023	50.0	25.0	
O2521-03	PZ-15	SAM	WATER	05/03/2023	50.0	25.0	
O2521-04	PZ-15	SAM	WATER	05/03/2023	50.0	25.0	
O2521-05	GMW-10	SAM	WATER	05/03/2023	50.0	25.0	
O2521-06	GMW-10	SAM	WATER	05/03/2023	50.0	25.0	
O2521-07	GMW-7	SAM	WATER	05/03/2023	50.0	25.0	
O2521-07DUP	GMW-7DUP	DUP	WATER	05/03/2023	50.0	25.0	
O2521-08	GMW-7	SAM	WATER	05/03/2023	50.0	25.0	
O2521-09	GMW-7MS	MS	WATER	05/03/2023	50.0	25.0	
O2521-10	GMW-7MSD	MSD	WATER	05/03/2023	50.0	25.0	
O2521-11	GMW-7MS	MS	WATER	05/03/2023	50.0	25.0	
O2521-12	GMW-7MSD	MSD	WATER	05/03/2023	50.0	25.0	
O2521-14	FB	SAM	WATER	05/03/2023	50.0	25.0	
O2521-15	FB	SAM	WATER	05/03/2023	50.0	25.0	
PB152450BL	PB152450BL	MB	WATER	05/03/2023	50.0	25.0	
PB152450BS	PB152450BS	LCS	WATER	05/03/2023	50.0	25.0	

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SAMPLE PREPARATION SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Method:**

Case No.: O2521 **SAS No.:** O2521

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB152487**						
O2521-01	GMW-1	SAM	WATER	04/28/2023	30.0	30.0	
O2521-03	PZ-15	SAM	WATER	04/28/2023	30.0	30.0	
O2521-05	GMW-10	SAM	WATER	04/28/2023	30.0	30.0	
O2521-07	GMW-7	SAM	WATER	04/28/2023	30.0	30.0	
O2521-07DUP	GMW-7DUP	DUP	WATER	04/28/2023	30.0	30.0	
O2521-09	GMW-7MS	MS	WATER	04/28/2023	30.0	30.0	
O2521-10	GMW-7MSD	MSD	WATER	04/28/2023	30.0	30.0	
O2521-14	FB	SAM	WATER	04/28/2023	30.0	30.0	
PB152487BL	PB152487BL	MB	WATER	04/28/2023	30.0	30.0	
PB152487BS	PB152487BS	LCS	WATER	04/28/2023	30.0	30.0	

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SAMPLE PREPARATION SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Method:**

Case No.: O2521 **SAS No.:** O2521

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB152538**						
O2521-02	GMW-1	SAM	WATER	05/02/2023	30.0	30.0	
O2521-04	PZ-15	SAM	WATER	05/02/2023	30.0	30.0	
O2521-06	GMW-10	SAM	WATER	05/02/2023	30.0	30.0	
O2521-08	GMW-7	SAM	WATER	05/02/2023	30.0	30.0	
O2521-08DUP	GMW-7DUP	DUP	WATER	05/02/2023	30.0	30.0	
O2521-11	GMW-7MS	MS	WATER	05/02/2023	30.0	30.0	
O2521-12	GMW-7MSD	MSD	WATER	05/02/2023	30.0	30.0	
O2521-15	FB	SAM	WATER	05/02/2023	30.0	30.0	
PB152538BL	PB152538BL	MB	WATER	05/02/2023	30.0	30.0	
PB152538BS	PB152538BS	LCS	WATER	05/02/2023	30.0	30.0	

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ANALYSIS RUN LOG

Client: GEI Consultants, Inc., P.C. **Contract:** GEIC06

Lab code: CHEM **Case no.:** O2521 **Sas no.:** O2521 **Sdg no.:** O2521

Instrument id number: **Method:** **Run number:** LB125204

Start date: 04/28/2023 **End date:** 04/28/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1249	HG
S0.2	S0.2	1	1252	HG
S2.5	S2.5	1	1254	HG
S5	S5	1	1256	HG
S7.5	S7.5	1	1258	HG
S10	S10	1	1301	HG
ICV53	ICV53	1	1311	HG
ICB53	ICB53	1	1314	HG
CCV79	CCV79	1	1316	HG
CCB79	CCB79	1	1318	HG
CRA	CRA	1	1320	HG
PB152487BL	PB152487BL	1	1327	HG
PB152487BS	PB152487BS	1	1329	HG
CCV80	CCV80	1	1343	HG
CCB80	CCB80	1	1345	HG
O2521-01	GMW-1	1	1352	HG
O2521-03	PZ-15	1	1354	HG
O2521-05	GMW-10	1	1357	HG
O2521-07	GMW-7	1	1359	HG
O2521-07DUP	GMW-7DUP	1	1401	HG
O2521-09	GMW-7MS	1	1407	HG
O2521-10	GMW-7MSD	1	1409	HG
O2521-14	FB	1	1411	HG
CCV81	CCV81	1	1414	HG
CCB81	CCB81	1	1416	HG
O2521-07L	GMW-7L	5	1420	HG
CCV82	CCV82	1	1430	HG
CCB82	CCB82	1	1433	HG

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ANALYSIS RUN LOG

Client: GEI Consultants, Inc., P.C. **Contract:** GEIC06

Lab code: CHEM **Case no.:** O2521 **Sas no.:** O2521 **Sdg no.:** O2521

Instrument id number: **Method:** **Run number:** LB125251

Start date: 05/02/2023 **End date:** 05/02/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1551	HG
S0.2	S0.2	1	1554	HG
S2.5	S2.5	1	1556	HG
S5	S5	1	1558	HG
S7.5	S7.5	1	1601	HG
S10	S10	1	1603	HG
ICV58	ICV58	1	1606	HG
ICB58	ICB58	1	1608	HG
CCV98	CCV98	1	1610	HG
CCB98	CCB98	1	1613	HG
CRA	CRA	1	1615	HG
PB152538BL	PB152538BL	1	1622	HG
PB152538BS	PB152538BS	1	1624	HG
CCV99	CCV99	1	1638	HG
CCB99	CCB99	1	1640	HG
O2521-02	GMW-1	1	1642	HG
O2521-04	PZ-15	1	1644	HG
O2521-06	GMW-10	1	1647	HG
O2521-08	GMW-7	1	1649	HG
O2521-08DUP	GMW-7DUP	1	1651	HG
O2521-11	GMW-7MS	1	1653	HG
O2521-12	GMW-7MSD	1	1656	HG
O2521-15	FB	1	1658	HG
O2521-08L	GMW-7L	5	1700	HG
CCV01	CCV01	1	1705	HG
CCB01	CCB01	1	1707	HG

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metals
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ANALYSIS RUN LOG

Client: GEI Consultants, Inc., P.C. **Contract:** GEIC06

Lab code: CHEM **Case no.:** O2521 **Sas no.:** O2521 **Sdg no.:** O2521

Instrument id number: **Method:** **Run number:** LB125269

Start date: 05/03/2023 **End date:** 05/03/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1240	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1244	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1248	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1252	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1255	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1259	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1404	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1411	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1415	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1419	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1423	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1431	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV01	LLCCV01	1	1435	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1439	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1521	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1530	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1639	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1643	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1730	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1734	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1816	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1820	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB152450BL	PB152450BL	1	1839	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB152450BS	PB152450BS	1	1843	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-01	GMW-1	1	1847	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-02	GMW-1	1	1851	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-03	PZ-15	1	1855	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-04	PZ-15	1	1859	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1903	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1907	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: GEI Consultants, Inc., P.C. **Contract:** GEIC06

Lab code: CHEM **Case no.:** O2521 **Sas no.:** O2521 **Sdg no.:** O2521

Instrument id number: **Method:** **Run number:** LB125287

Start date: 05/04/2023 **End date:** 05/04/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1318	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1322	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1326	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1330	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1333	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1337	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1341	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1347	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1351	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1355	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1358	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1410	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV01	LLCCV01	1	1414	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1418	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1505	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1509	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1553	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1557	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-05	GMW-10	1	1601	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-06	GMW-10	1	1605	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-07	GMW-7	1	1609	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-07DUP	GMW-7DUP	1	1613	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-07L	GMW-7L	5	1617	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-09	GMW-7MS	1	1621	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-10	GMW-7MSD	1	1625	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-07A	GMW-7A	1	1628	Al,Ba,Fe,Mn,Zn
O2521-14	FB	1	1632	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1652	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1655	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1743	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1747	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-08	GMW-7	1	1751	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-11	GMW-7MS	1	1802	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-12	GMW-7MSD	1	1806	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-08A	GMW-7A	1	1809	Ba,Mn,Zn
CCV06	CCV06	1	1813	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1817	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: GEI Consultants, Inc., P.C. **Contract:** GEIC06

Lab code: CHEM **Case no.:** O2521 **Sas no.:** O2521 **Sdg no.:** O2521

Instrument id number: **Method:** **Run number:** LB125428

Start date: 05/11/2023 **End date:** 05/11/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1524	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1528	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1532	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1535	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1539	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1543	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1547	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1551	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1555	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1559	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1603	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1619	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV01	LLCCV01	1	1623	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1627	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1716	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1720	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1818	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1821	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-15	FB	1	1843	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1901	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1905	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1949	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1953	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	2037	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	2041	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	2104	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	2108	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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LAB CHRONICLE

OrderID:	O2521	**OrderDate:**	4/27/2023 8:52:00 AM
Client:	GEI Consultants, Inc., P.C.	**Project:**	Ferry Point
Contact:	Stacey Ng	**Location:**	M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O2521-01	**GMW-1**	**WATER**			**04/26/23 08:36**			**04/26/23**
			Alkalinity	SM2320 B			05/04/23 14:59	
			Ammonia	SM4500-NH3		05/01/23	05/02/23 13:04	
			Anions Group1	300.0			04/27/23 16:09	
			BOD5	SM5210 B			04/27/23 15:00	
			COD	SM5220 D			05/03/23 14:05	
			Cyanide	9012B		04/28/23	04/28/23 14:00	
			pH	9040C			04/27/23 14:45	
			Phenolics	420.1		04/27/23	04/27/23 11:46	
			TDS	SM2540 C			04/27/23 10:30	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		05/03/23	05/04/23 11:21	
			TOC	9060A			05/01/23 13:13	
O2521-01DL	**GMW-1DL**	**WATER**			**04/26/23 08:36**			**04/26/23**
			Ammonia	SM4500-NH3		05/01/23	05/02/23 14:36	
			Anions Group1	300.0			04/28/23 09:04	

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			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		05/03/23	05/04/23 12:20
			TOC	9060A			05/01/23 19:06
O2521-03	**PZ-15**	**WATER**			**04/26/23 09:54**		**04/26/23**
			Alkalinity	SM2320 B			05/04/23 15:07
			Ammonia	SM4500-NH3		05/01/23	05/02/23 13:04
			Anions Group1	300.0			04/27/23 16:42
			BOD5	SM5210 B			04/27/23 15:00
			COD	SM5220 D			05/03/23 14:07
			Cyanide	9012B		04/28/23	04/28/23 14:00
			pH	9040C			04/27/23 14:49
			Phenolics	420.1		04/27/23	04/27/23 11:46
			TDS	SM2540 C			04/27/23 10:30
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		05/03/23	05/04/23 11:21
			TOC	9060A			05/01/23 13:44
O2521-03DL	**PZ-15DL**	**WATER**			**04/26/23 09:54**		**04/26/23**
			Ammonia	SM4500-NH3		05/01/23	05/02/23 14:02
			Anions Group1	300.0			04/28/23 09:36

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			TKN	SM4500-N Org C-11 plus NH3 B plus G-11	05/03/23	05/04/23 12:20	
			TOC	9060A		05/01/23 19:35	
O2521-05	**GMW-10**	**WATER**			**04/26/23 11:16**		**04/26/23**
			Alkalinity	SM2320 B		05/04/23 15:12	
			Ammonia	SM4500-NH3	05/01/23	05/02/23 13:04	
			Anions Group1	300.0		04/27/23 17:15	
			BOD5	SM5210 B		04/27/23 15:00	
			COD	SM5220 D		05/03/23 14:07	
			Cyanide	9012B	04/28/23	04/28/23 14:00	
			pH	9040C		04/27/23 15:00	
			Phenolics	420.1	04/27/23	04/27/23 11:46	
			TDS	SM2540 C		04/27/23 10:30	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11	05/03/23	05/04/23 11:21	
			TOC	9060A		05/01/23 14:17	
O2521-05DL	**GMW-10DL**	**WATER**			**04/26/23 11:16**		**04/26/23**
			Anions Group1	300.0		04/28/23 10:09	
			TOC	9060A		05/02/23 12:34	

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O2521-07	**GMW-7**	**WATER**			**04/26/23 13:21**		**04/26/23**
			Alkalinity	SM2320 B		05/04/23 15:18	
			Ammonia	SM4500-NH3	05/01/23	05/02/23 13:04	
			Anions Group1	300.0		04/27/23 17:47	
			BOD5	SM5210 B		04/27/23 15:00	
			COD	SM5220 D		05/03/23 14:08	
			Cyanide	9012B	04/28/23	04/28/23 14:00	
			pH	9040C		04/27/23 15:05	
			Phenolics	420.1	04/27/23	04/27/23 12:24	
			TDS	SM2540 C		04/27/23 10:30	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11	05/03/23	05/04/23 11:21	
			TOC	9060A		05/01/23 14:45	
O2521-07DL	**GMW-7DL**	**WATER**			**04/26/23 13:21**		**04/26/23**
			Anions Group1	300.0		04/28/23 10:42	
O2521-14	**FB**	**Water**			**04/26/23 12:00**		**04/26/23**
			Alkalinity	SM2320 B		05/05/23 10:48	
			BOD5	SM5210 B		04/27/23 15:00	
			COD	SM5220 D		05/03/23 14:10	
			pH	9040C		04/27/23 15:10	

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LAB CHRONICLE

TDS	SM2540 C		04/27/23 10:30
Ammonia	SM4500-NH3	05/01/23	05/02/23 13:54
Anions Group1	300.0		04/27/23 19:25
Cyanide	9012B	04/28/23	04/28/23 14:04
Phenolics	420.1	04/27/23	04/27/23 12:24
TKN	SM4500-N Org C-11 plus NH3 B plus G-11	05/03/23	05/04/23 11:22
TOC	9060A		05/01/23 18:13

SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23 08:36
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1	SDG No.:	O2521
Lab Sample ID:	O2521-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	614		1	1.00	2.00	mg/L		05/04/23 14:59	SM 2320 B-11
Ammonia as N	11.9	OR	1	0.045	0.10	mg/L	05/01/23 13:30	05/02/23 13:04	SM 4500-NH3 B plus G-11
Bromide	0.90	J	1	0.27	2.00	mg/L		04/27/23 16:09	300.0
Chloride	53.0	OR	1	0.11	0.60	mg/L		04/27/23 16:09	300.0
Nitrite	0.60	U	1	0.089	0.60	mg/L		04/27/23 16:09	300.0
Nitrate	0.50	U	1	0.084	0.50	mg/L		04/27/23 16:09	300.0
Sulfate	1.50	J	1	0.55	3.00	mg/L		04/27/23 16:09	300.0
Nitrate+Nitrite	1.10	U	1	0.17	1.10	mg/L		04/27/23 16:09	300.0
BOD5	95.4		1	0.17	2.00	mg/L		04/27/23 15:00	SM 5210 B-16
COD	160	D	10	25.2	100	mg/L		05/03/23 14:05	SM 5220 D-11
Cyanide	0.035		1	0.0010	0.0050	mg/L	04/28/23 10:45	04/28/23 14:00	9012B
pH	6.85	H	1	0	0	pH		04/27/23 14:45	9040C
Phenolics	0.050	U	1	0.012	0.050	mg/L	04/27/23 09:45	04/27/23 11:46	420.1
TDS	666		1	1.00	10.0	mg/L		04/27/23 10:30	SM 2540 C-15
TKN	12.4	OR	1	0.13	0.50	mg/L	05/03/23 10:30	05/04/23 11:21	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	28.2	OR	1	0.37	1.00	mg/L		05/01/23 13:13	9060A

Comments: pH result reported at temperature 20.8 °C

U = Not Detected
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H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23 08:36
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1DL	SDG No.:	O2521
Lab Sample ID:	O2521-01DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	13.3	D	10	0.45	1.00	mg/L	05/01/23 13:30	05/02/23 14:36	SM 4500-NH3 B plus G-11
Chloride	44.4	D	10	1.10	6.00	mg/L		04/28/23 09:04	300.0
TKN	13.0	D	2	0.26	1.00	mg/L	05/03/23 10:30	05/04/23 12:20	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	28.1	D	4	1.50	4.00	mg/L		05/01/23 19:06	9060A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23 09:54
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15	SDG No.:	O2521
Lab Sample ID:	O2521-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	812		1	1.00	2.00	mg/L		05/04/23 15:07	SM 2320 B-11
Ammonia as N	32.6	OR	1	0.045	0.10	mg/L	05/01/23 13:30	05/02/23 13:04	SM 4500-NH3 B plus G-11
Bromide	0.97	J	1	0.27	2.00	mg/L		04/27/23 16:42	300.0
Chloride	44.7	OR	1	0.11	0.60	mg/L		04/27/23 16:42	300.0
Nitrite	0.60	U	1	0.089	0.60	mg/L		04/27/23 16:42	300.0
Nitrate	0.19	J	1	0.084	0.50	mg/L		04/27/23 16:42	300.0
Sulfate	3.00		1	0.55	3.00	mg/L		04/27/23 16:42	300.0
Nitrate+Nitrite	0.19	J	1	0.17	1.10	mg/L		04/27/23 16:42	300.0
BOD5	39.2		1	0.17	2.00	mg/L		04/27/23 15:00	SM 5210 B-16
COD	190	D	10	25.2	100	mg/L		05/03/23 14:07	SM 5220 D-11
Cyanide	0.34		1	0.0010	0.0050	mg/L	04/28/23 10:45	04/28/23 14:00	9012B
pH	6.71	H	1	0	0	pH		04/27/23 14:49	9040C
Phenolics	0.050	U	1	0.012	0.050	mg/L	04/27/23 09:45	04/27/23 11:46	420.1
TDS	773		1	1.00	10.0	mg/L		04/27/23 10:30	SM 2540 C-15
TKN	31.0	OR	1	0.13	0.50	mg/L	05/03/23 10:30	05/04/23 11:21	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	29.0	OR	1	0.37	1.00	mg/L		05/01/23 13:44	9060A

Comments: pH result reported at temperature 20.1 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
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E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23 09:54
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15DL	SDG No.:	O2521
Lab Sample ID:	O2521-03DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	56.8	D	50	2.30	5.00	mg/L	05/01/23 13:30	05/02/23 14:02	SM 4500-NH3 B plus G-11
Chloride	38.2	D	10	1.10	6.00	mg/L		04/28/23 09:36	300.0
TKN	49.6	D	10	1.30	5.00	mg/L	05/03/23 10:30	05/04/23 12:20	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	30.4	D	4	1.50	4.00	mg/L		05/01/23 19:35	9060A

Comments:

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MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
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H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
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E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23 11:16
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10	SDG No.:	O2521
Lab Sample ID:	O2521-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	494		1	1.00	2.00	mg/L		05/04/23 15:12	SM 2320 B-11
Ammonia as N	1.60		1	0.045	0.10	mg/L	05/01/23 13:30	05/02/23 13:04	SM 4500-NH3 B plus G-11
Bromide	2.00	U	1	0.27	2.00	mg/L		04/27/23 17:15	300.0
Chloride	21.8	OR	1	0.11	0.60	mg/L		04/27/23 17:15	300.0
Nitrite	0.60	U	1	0.089	0.60	mg/L		04/27/23 17:15	300.0
Nitrate	0.50	U	1	0.084	0.50	mg/L		04/27/23 17:15	300.0
Sulfate	58.4	OR	1	0.55	3.00	mg/L		04/27/23 17:15	300.0
Nitrate+Nitrite	1.10	U	1	0.17	1.10	mg/L		04/27/23 17:15	300.0
BOD5	8.50		1	0.17	2.00	mg/L		04/27/23 15:00	SM 5210 B-16
COD	114		1	2.52	10.0	mg/L		05/03/23 14:07	SM 5220 D-11
Cyanide	0.22		1	0.0010	0.0050	mg/L	04/28/23 10:45	04/28/23 14:00	9012B
pH	6.72	H	1	0	0	pH		04/27/23 15:00	9040C
Phenolics	0.050	U	1	0.012	0.050	mg/L	04/27/23 09:45	04/27/23 11:46	420.1
TDS	729		1	1.00	10.0	mg/L		04/27/23 10:30	SM 2540 C-15
TKN	0.52		1	0.13	0.50	mg/L	05/03/23 10:30	05/04/23 11:21	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	28.7	OR	1	0.37	1.00	mg/L		05/01/23 14:17	9060A

Comments: pH result reported at temperature 20.9 °C

U = Not Detected
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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23 11:16
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10DL	SDG No.:	O2521
Lab Sample ID:	O2521-05DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	19.4	D	5	0.55	3.00	mg/L		04/28/23 10:09	300.0
Sulfate	53.0	D	5	2.80	15.0	mg/L		04/28/23 10:09	300.0
TOC	26.4	D	4	1.50	4.00	mg/L		05/02/23 12:34	9060A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
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H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23 13:21
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7	SDG No.:	O2521
Lab Sample ID:	O2521-07	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	404		1	1.00	2.00	mg/L		05/04/23 15:18	SM 2320 B-11
Ammonia as N	1.50		1	0.045	0.10	mg/L	05/01/23 13:30	05/02/23 13:04	SM 4500-NH3 B plus G-11
Bromide	2.00	U	1	0.27	2.00	mg/L		04/27/23 17:47	300.0
Chloride	24.1	OR	1	0.11	0.60	mg/L		04/27/23 17:47	300.0
Nitrite	0.60	U	1	0.089	0.60	mg/L		04/27/23 17:47	300.0
Nitrate	1.70		1	0.084	0.50	mg/L		04/27/23 17:47	300.0
Sulfate	75.7	OR	1	0.55	3.00	mg/L		04/27/23 17:47	300.0
Nitrate+Nitrite	1.70		1	0.17	1.10	mg/L		04/27/23 17:47	300.0
BOD5	10.2		1	0.17	2.00	mg/L		04/27/23 15:00	SM 5210 B-16
COD	15.0		1	2.52	10.0	mg/L		05/03/23 14:08	SM 5220 D-11
Cyanide	0.010		1	0.0010	0.0050	mg/L	04/28/23 10:45	04/28/23 14:00	9012B
pH	7.02	H	1	0	0	pH		04/27/23 15:05	9040C
Phenolics	0.050	U	1	0.012	0.050	mg/L	04/27/23 09:45	04/27/23 12:24	420.1
TDS	658		1	1.00	10.0	mg/L		04/27/23 10:30	SM 2540 C-15
TKN	4.70		1	0.13	0.50	mg/L	05/03/23 10:30	05/04/23 11:21	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	7.90		1	0.37	1.00	mg/L		05/01/23 14:45	9060A

Comments: pH result reported at temperature 20.9 °C

U = Not Detected
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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23 13:21
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7DL	SDG No.:	O2521
Lab Sample ID:	O2521-07DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	21.7	D	5	0.55	3.00	mg/L		04/28/23 10:42	300.0
Sulfate	68.0	D	5	2.80	15.0	mg/L		04/28/23 10:42	300.0

Comments:

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23 12:00
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	FB	SDG No.:	O2521
Lab Sample ID:	O2521-14	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	1.20	J	1	1.00	2.00	mg/L		05/05/23 10:48	SM 2320 B-11
Ammonia as N	0.10	U	1	0.045	0.10	mg/L	05/01/23 13:30	05/02/23 13:54	SM 4500-NH3 B plus G-11
Bromide	2.00	U	1	0.27	2.00	mg/L		04/27/23 19:25	300.0
Chloride	0.60	U	1	0.11	0.60	mg/L		04/27/23 19:25	300.0
Nitrite	0.60	U	1	0.089	0.60	mg/L		04/27/23 19:25	300.0
Nitrate	0.50	U	1	0.084	0.50	mg/L		04/27/23 19:25	300.0
Sulfate	3.00	U	1	0.55	3.00	mg/L		04/27/23 19:25	300.0
Nitrate+Nitrite	1.10	U	1	0.17	1.10	mg/L		04/27/23 19:25	300.0
BOD5	2.00	U	1	0.17	2.00	mg/L		04/27/23 15:00	SM 5210 B-16
COD	10.0	U	1	2.52	10.0	mg/L		05/03/23 14:10	SM 5220 D-11
Cyanide	0.0014	J	1	0.0010	0.0050	mg/L	04/28/23 10:45	04/28/23 14:04	9012B
pH	5.48	H	1	0	0	pH		04/27/23 15:10	9040C
Phenolics	0.050	U	1	0.012	0.050	mg/L	04/27/23 09:45	04/27/23 12:24	420.1
TDS	10.0	U	1	1.00	10.0	mg/L		04/27/23 10:30	SM 2540 C-15
TKN	0.50	U	1	0.13	0.50	mg/L	05/03/23 10:30	05/04/23 11:22	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	0.76	J	1	0.37	1.00	mg/L		05/01/23 18:13	9060A

Comments: pH result reported at temperature 20.6 °C

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N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125184

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
Phenolics		mg/L	0.98	1	98	90-110	04/27/2023
Sample ID:	CCV1						
Phenolics		mg/L	0.94	1	94	90-110	04/27/2023
Sample ID:	CCV2						
Phenolics		mg/L	0.93	1	93	90-110	04/27/2023
Sample ID:	CCV3						
Phenolics		mg/L	0.94	1	94	90-110	04/27/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125187

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	10.3	10	103	90-110	04/24/2023
Chloride	mg/L	3.1	3	103	90-110	04/24/2023
Fluoride	mg/L	1.9	2	95	90-110	04/24/2023
Nitrite	mg/L	3.1	3	103	90-110	04/24/2023
Nitrate	mg/L	2.6	2.5	104	90-110	04/24/2023
Sulfate	mg/L	15.4	15	103	90-110	04/24/2023
Orthophosphate as P	mg/L	4.7	5	94	90-110	04/24/2023
Sample ID: CCV1						
Bromide	mg/L	9.8	10	98	90-110	04/27/2023
Chloride	mg/L	2.9	3	97	90-110	04/27/2023
Fluoride	mg/L	1.9	2	95	90-110	04/27/2023
Nitrite	mg/L	2.9	3	97	90-110	04/27/2023
Nitrate	mg/L	2.4	2.5	96	90-110	04/27/2023
Sulfate	mg/L	14.6	15	97	90-110	04/27/2023
Orthophosphate as P	mg/L	5.7	5	114	90-110	04/27/2023
Sample ID: CCV2						
Bromide	mg/L	9.9	10	99	90-110	04/27/2023
Chloride	mg/L	3	3	100	90-110	04/27/2023
Fluoride	mg/L	2	2	100	90-110	04/27/2023
Nitrite	mg/L	3.1	3	103	90-110	04/27/2023
Nitrate	mg/L	2.5	2.5	100	90-110	04/27/2023
Sulfate	mg/L	14.9	15	99	90-110	04/27/2023
Orthophosphate as P	mg/L	6.8	5	136	90-110	04/27/2023
Sample ID: CCV3						
Bromide	mg/L	9.9	10	99	90-110	04/28/2023
Chloride	mg/L	3	3	100	90-110	04/28/2023
Fluoride	mg/L	2	2	100	90-110	04/28/2023
Nitrite	mg/L	3.1	3	103	90-110	04/28/2023
Nitrate	mg/L	2.5	2.5	100	90-110	04/28/2023
Sulfate	mg/L	14.9	15	99	90-110	04/28/2023
Orthophosphate as P	mg/L	7.2	5	144	90-110	04/28/2023
Sample ID: CCV4						
Bromide	mg/L	10	10	100	90-110	04/28/2023
Chloride	mg/L	3.2	3	107	90-110	04/28/2023
Fluoride	mg/L	2	2	100	90-110	04/28/2023
Nitrite	mg/L	3.1	3	103	90-110	04/28/2023
Nitrate	mg/L	2.5	2.5	100	90-110	04/28/2023
Sulfate	mg/L	15	15	100	90-110	04/28/2023
Orthophosphate as P	mg/L	6.6	5	132	90-110	04/28/2023
Sample ID: CCV5						
Bromide	mg/L	10	10	100	90-110	04/28/2023
Chloride	mg/L	3	3	100	90-110	04/28/2023
Fluoride	mg/L	2	2	100	90-110	04/28/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125187

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Nitrite	mg/L	3.1	3	103	90-110	04/28/2023
Nitrate	mg/L	2.5	2.5	100	90-110	04/28/2023
Sulfate	mg/L	15	15	100	90-110	04/28/2023
Orthophosphate as P	mg/L	6.1	5	122	90-110	04/28/2023

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Initial and Continuing Calibration Verification

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**RunNo.:**	LB125189

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV**						
pH		pH	6.99	7	100	90-110	04/27/2023
Sample ID:	**CCV1**						
pH		pH	2.01	2.00	101	90-110	04/27/2023
Sample ID:	**CCV2**						
pH		pH	12.02	12.00	100	90-110	04/27/2023

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Initial and Continuing Calibration Verification

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**RunNo.:**	LB125211

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
Cyanide		mg/L	0.096	0.099	97	90-110	04/28/2023
Sample ID:	**CCV1**						
Cyanide		mg/L	0.25	0.25	100	90-110	04/28/2023
Sample ID:	**CCV2**						
Cyanide		mg/L	0.24	0.25	96	90-110	04/28/2023
Sample ID:	**CCV3**						
Cyanide		mg/L	0.25	0.25	100	90-110	04/28/2023
Sample ID:	**CCV4**						
Cyanide		mg/L	0.24	0.25	96	90-110	04/28/2023
Sample ID:	**CCV5**						
Cyanide		mg/L	0.26	0.25	104	90-110	04/28/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125221

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
TOC		mg/L	10.3	10	103	90-110	04/04/2023
Sample ID:	CCV1						
TOC		mg/L	10.9	10	109	90-110	05/01/2023
Sample ID:	CCV2						
TOC		mg/L	10.7	10	107	90-110	05/01/2023
Sample ID:	CCV3						
TOC		mg/L	10.7	10	107	90-110	05/01/2023
Sample ID:	CCV4						
TOC		mg/L	10.2	10	102	90-110	05/02/2023
Sample ID:	CCV5						
TOC		mg/L	10.8	10	108	90-110	05/02/2023
Sample ID:	CCV6						
TOC		mg/L	10.6	10	106	90-110	05/02/2023
Sample ID:	CCV7						
TOC		mg/L	10.4	10	104	90-110	05/03/2023
Sample ID:	CCV8						
TOC		mg/L	10.5	10	105	90-110	05/03/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125248

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
Ammonia as N		mg/L	0.91	1	91	90-110	05/02/2023
Sample ID:	CCV1						
Ammonia as N		mg/L	0.95	1	95	90-110	05/02/2023
Sample ID:	CCV2						
Ammonia as N		mg/L	0.94	1	94	90-110	05/02/2023
Sample ID:	CCV3						
Ammonia as N		mg/L	0.93	1	93	90-110	05/02/2023
Sample ID:	CCV4						
Ammonia as N		mg/L	0.97	1	97	90-110	05/02/2023
Sample ID:	CCV5						
Ammonia as N		mg/L	1	1	100	90-110	05/02/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125267

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
COD		mg/L	49.991	50	100	95-105	03/10/2023
Sample ID:	CCV1						
COD		mg/L	48.990	50	98	95-105	05/03/2023
Sample ID:	CCV2						
COD		mg/L	48.990	50	98	95-105	05/03/2023
Sample ID:	CCV3						
COD		mg/L	50.992	50	102	95-105	05/03/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125282

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
TKN		mg/L	4.9	5	98	90-110	05/04/2023
Sample ID:	CCV1						
TKN		mg/L	4.9	5	98	90-110	05/04/2023
Sample ID:	CCV2						
TKN		mg/L	4.8	5	96	90-110	05/04/2023
Sample ID:	CCV3						
TKN		mg/L	5.1	5	102	90-110	05/04/2023
Sample ID:	CCV4						
TKN		mg/L	5.1	5	102	90-110	05/04/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125184

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Phenolics		mg/L	< 0.0250	0.0250	U	0.012	0.05	04/27/2023
Sample ID:	CCB1							
Phenolics		mg/L	< 0.0250	0.0250	U	0.012	0.05	04/27/2023
Sample ID:	CCB2							
Phenolics		mg/L	< 0.0250	0.0250	U	0.012	0.05	04/27/2023
Sample ID:	CCB3							
Phenolics		mg/L	< 0.0250	0.0250	U	0.012	0.05	04/27/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125187

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/24/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/24/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/24/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/24/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/24/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/24/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/24/2023
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/27/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/27/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/27/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/27/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/27/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/27/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/27/2023
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/27/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/27/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/27/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/27/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/27/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/27/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/27/2023
Sample ID: CCB3							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/28/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/28/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/28/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/28/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/28/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/28/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/28/2023
Sample ID: CCB4							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/28/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/28/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/28/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/28/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/28/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/28/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/28/2023
Sample ID: CCB5							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/28/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/28/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/28/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/28/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/28/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/28/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/28/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125211

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	04/28/2023
Sample ID:	CCB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	04/28/2023
Sample ID:	CCB2							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	04/28/2023
Sample ID:	CCB3							
Cyanide		mg/L	0.0011	0.0025	J	0.0010	0.005	04/28/2023
Sample ID:	CCB4							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	04/28/2023
Sample ID:	CCB5							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	04/28/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125221

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
TOC		mg/L	0.47	0.5000	J	0.37	1	04/04/2023
Sample ID:	CCB1							
TOC		mg/L	< 0.5000	0.5000	U	0.37	1	05/01/2023
Sample ID:	CCB2							
TOC		mg/L	< 0.5000	0.5000	U	0.37	1	05/01/2023
Sample ID:	CCB3							
TOC		mg/L	< 0.5000	0.5000	U	0.37	1	05/01/2023
Sample ID:	CCB4							
TOC		mg/L	< 0.5000	0.5000	U	0.37	1	05/02/2023
Sample ID:	CCB5							
TOC		mg/L	< 0.5000	0.5000	U	0.37	1	05/02/2023
Sample ID:	CCB6							
TOC		mg/L	< 0.5000	0.5000	U	0.37	1	05/02/2023
Sample ID:	CCB7							
TOC		mg/L	< 0.5000	0.5000	U	0.37	1	05/03/2023
Sample ID:	CCB8							
TOC		mg/L	0.4	0.5000	J	0.37	1	05/03/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125248

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023
Sample ID: CCB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023
Sample ID: CCB2							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023
Sample ID: CCB3							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023
Sample ID: CCB4							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023
Sample ID: CCB5							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125267

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
COD	mg/L	< 5.0000	5.0000	U	2.52	10	03/10/2023
Sample ID: CCB1							
COD	mg/L	< 5.0000	5.0000	U	2.52	10	05/03/2023
Sample ID: CCB2							
COD	mg/L	< 5.0000	5.0000	U	2.52	10	05/03/2023
Sample ID: CCB3							
COD	mg/L	< 5.0000	5.0000	U	2.52	10	05/03/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125282

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
TKN		mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023
Sample ID:	CCB1							
TKN		mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023
Sample ID:	CCB2							
TKN		mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023
Sample ID:	CCB3							
TKN		mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023
Sample ID:	CCB4							
TKN		mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023

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Preparation Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB125179BL							
TDS	mg/L	< 5.0000	5.0000	U	1.0	10	04/27/2023
Sample ID: LB125186BL							
BOD5	mg/L	< 0.2000	0.2000	U	0.17	2.0	04/27/2023
Sample ID: LB125187BLW							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/27/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/27/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/27/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/27/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/27/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/27/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.3	1	04/27/2023
Sample ID: LB125187BLW2							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/28/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/28/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/28/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/28/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/28/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/28/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.3	1	04/28/2023
Sample ID: LB125221BLW							
TOC	mg/L	< 0.5000	0.5000	U	0.37	1	05/01/2023
Sample ID: LB125221BLW2							
TOC	mg/L	< 0.5000	0.5000	U	0.37	1	05/02/2023
Sample ID: LB125221BLW3							
TOC	mg/L	< 0.5000	0.5000	U	0.37	1	05/03/2023
Sample ID: LB125267BL							
COD	mg/L	< 5.0000	5.0000	U	2.52	10.0	05/03/2023
Sample ID: LB125291BLW							
Alkalinity	mg/L	< 1.0000	1.0000	U	1	2	05/04/2023
Sample ID: LB125301BL							
Alkalinity	mg/L	< 1.0000	1.0000	U	1	2	05/05/2023
Sample ID: PB152437BL							
TKN	mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023
Sample ID: PB152445BL							
Phenolics	mg/L	< 0.0250	0.0250	U	0.012	0.05	04/27/2023
Sample ID: PB152488BL							
Cyanide	mg/L	< 0.0025	0.0025	U	0.001	0.005	04/28/2023
Sample ID: PB152517BL							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	11.1		0.27	U	10	1	111		04/27/2023
Ammonia as N	mg/L	75-125	2.20	OR	1.50		1	1	70	*	05/02/2023
TOC	mg/L	75-125	17.5		7.90		10	1	96		05/01/2023
COD	mg/L	75-125	61.0		15.0		50.0	1	92		05/03/2023
Chloride	mg/L	80-120	26.9	OR	24.1	OR	3	1	93		04/27/2023
Fluoride	mg/L	80-120	3.60		0.085	U	2	1	180	*	04/27/2023
Nitrite	mg/L	80-120	1.70		0.089	U	3	1	57	*	04/27/2023
Nitrate	mg/L	80-120	4.30		1.70		2.5	1	104		04/27/2023
Sulfate	mg/L	80-120	92.0	OR	75.7	OR	15	1	109		04/27/2023
Orthophosphate as P	mg/L	80-120	8.10		0.30	U	5	1	162	*	04/27/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/L	75-125	0.057		0.010		0.04	1	117		04/28/2023
TKN	mg/L	75-125	9.50		4.70		5	1	96		05/04/2023
Phenolics	mg/L	75-125	0.44		0.012	U	1	1	44	*	04/27/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.6		0.27	U	10	1	106		04/27/2023
Ammonia as N	mg/L	75-125	2.20	OR	1.50		1	1	70	*	05/02/2023
TOC	mg/L	75-125	17.3		7.90		10	1	94		05/01/2023
COD	mg/L	75-125	62.0		15.0		50.0	1	94		05/03/2023
Chloride	mg/L	80-120	26.9	OR	24.1	OR	3	1	93		04/27/2023
Fluoride	mg/L	80-120	3.40		0.085	U	2	1	170	*	04/27/2023
Nitrite	mg/L	80-120	1.60		0.089	U	3	1	53	*	04/27/2023
Nitrate	mg/L	80-120	4.20		1.70		2.5	1	100		04/27/2023
Sulfate	mg/L	80-120	91.3	OR	75.7	OR	15	1	104		04/27/2023
Orthophosphate as P	mg/L	80-120	8.40		0.30	U	5	1	168	*	04/27/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/L	75-125	0.057		0.010		0.04	1	117		04/28/2023
TKN	mg/L	75-125	9.00		4.70		5	1	86		05/04/2023
Phenolics	mg/L	75-125	0.41		0.012	U	1	1	41	*	04/27/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2522-11
Client ID: MW-4MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	12.0		1.70	J	10	1	103		04/28/2023
Chloride	mg/L	80-120	779	OR	808	OR	3	1	-967	*	04/28/2023
Fluoride	mg/L	80-120	3.00		0.085	U	2	1	150	*	04/28/2023
Nitrite	mg/L	80-120	2.40		0.089	U	3	1	80		04/28/2023
Nitrate	mg/L	80-120	15.4	OR	12.7	OR	2.5	1	108		04/28/2023
Sulfate	mg/L	80-120	123	OR	109	OR	15	1	93		04/28/2023
Orthophosphate as P	mg/L	80-120	8.90		0.30	U	5	1	178	*	04/28/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2522-11
Client ID: MW-4MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	12.2		1.70	J	10	1	105		04/28/2023
Chloride	mg/L	80-120	779	OR	808	OR	3	1	-967	*	04/28/2023
Fluoride	mg/L	80-120	3.00		0.085	U	2	1	150	*	04/28/2023
Nitrite	mg/L	80-120	2.40		0.089	U	3	1	80		04/28/2023
Nitrate	mg/L	80-120	15.4	OR	12.7	OR	2.5	1	108		04/28/2023
Sulfate	mg/L	80-120	123	OR	109	OR	15	1	93		04/28/2023
Orthophosphate as P	mg/L	80-120	9.60		0.30	U	5	1	192	*	04/28/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2533-03
Client ID: 22-MW-3IMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/L	75-125	10.5		1.80		10	1	87		05/02/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2533-03
Client ID: 22-MW-3IMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/L	75-125	10.7		1.80		10	1	89		05/02/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2495-09
Client ID: GMW-5DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TDS	mg/L	+/-5	332		333		1	0.3		04/27/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2515-11
Client ID: LEA-12SDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Alkalinity	mg/L	+/-20	1.40	J	1.20	J	1	15.38		05/05/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2521-01
Client ID: GMW-1DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
pH	pH	+/-20	6.85		6.86		1	0.15		04/27/2023
Alkalinity	mg/L	+/-20	614		613		1	0		05/04/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Phenolics	mg/L	+/-20	0.012	U	0.012	U	1	0		04/27/2023
BOD5	mg/L	+/-20	10.2		10.2		1	0.39		04/27/2023
Cyanide	mg/L	+/-20	0.010		0.0097		1	3		04/28/2023
Ammonia as N	mg/L	+/-20	1.50		1.50		1	0		05/02/2023
COD	mg/L	+/-20	15.0		14.0		1	6.9		05/03/2023
TKN	mg/L	+/-20	4.70		4.90		1	4		05/04/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Chloride	mg/L	+/-20	26.9	OR	26.9	OR	1	0		04/27/2023
Sulfate	mg/L	+/-20	92.0	OR	91.3	OR	1	1		04/27/2023
Nitrate	mg/L	+/-20	4.30		4.20		1	2		04/27/2023
Orthophosphate as P	mg/L	+/-20	8.10		8.40		1	4		04/27/2023
Bromide	mg/L	+/-20	11.1		10.6		1	5		04/27/2023
Fluoride	mg/L	+/-20	3.60		3.40		1	6		04/27/2023
Nitrite	mg/L	+/-20	1.70		1.60		1	6		04/27/2023
TOC	mg/L	+/-20	17.5		17.3		1	1		05/01/2023
Ammonia as N	mg/L	+/-20	2.20	OR	2.20	OR	1	0		05/02/2023
COD	mg/L	+/-20	61.0		62.0		1	1.63		05/03/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Phenolics	mg/L	+/-20	0.44		0.41		1	7		04/27/2023
Cyanide	mg/L	+/-20	0.057		0.057		1	0		04/28/2023
TKN	mg/L	+/-20	9.50		9.00		1	5		05/04/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2522-11
Client ID: MW-4MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Fluoride	mg/L	+/-20	3.00		3.00		1	0		04/28/2023
Nitrite	mg/L	+/-20	2.40		2.40		1	0		04/28/2023
Chloride	mg/L	+/-20	779	OR	779	OR	1	0		04/28/2023
Nitrate	mg/L	+/-20	15.4	OR	15.4	OR	1	0		04/28/2023
Sulfate	mg/L	+/-20	123	OR	123	OR	1	0		04/28/2023
Bromide	mg/L	+/-20	12.0		12.2		1	2		04/28/2023
Orthophosphate as P	mg/L	+/-20	8.90		9.60		1	8		04/28/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2533-03
Client ID: 22-MW-3IMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TOC	mg/L	+/-20	10.5		10.7		1	2		05/02/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125179

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125179BS								
TDS	mg/L	100	94.0		94	1	90-110	04/27/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125186

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125186BS								
BOD5	mg/L	198	170		86	1	84.6-115.4	04/27/2023

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Laboratory Control Sample Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **Run No.:** LB125187

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125187BSW								
Bromide	mg/L	10	9.70		97	1	90-110	04/27/2023
Chloride	mg/L	3	2.90		97	1	90-110	04/27/2023
Fluoride	mg/L	2	1.90		95	1	90-110	04/27/2023
Nitrite	mg/L	3	2.90		97	1	90-110	04/27/2023
Nitrate	mg/L	2.5	2.40		96	1	90-110	04/27/2023
Sulfate	mg/L	15	14.5		97	1	90-110	04/27/2023
Orthophosphate as P	mg/L	5	5.10		102	1	90-110	04/27/2023

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Laboratory Control Sample Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **Run No.:** LB125187

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125187BSW2								
Bromide	mg/L	10	9.90		99	1	90-110	04/28/2023
Chloride	mg/L	3	3.00		100	1	90-110	04/28/2023
Fluoride	mg/L	2	2.00		100	1	90-110	04/28/2023
Nitrite	mg/L	3	3.10		103	1	90-110	04/28/2023
Nitrate	mg/L	2.5	2.50		100	1	90-110	04/28/2023
Sulfate	mg/L	15	14.9		99	1	90-110	04/28/2023
Orthophosphate as P	mg/L	5	6.90		138	1	90-110	04/28/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125221

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125221BSW								
TOC	mg/L	10	10.6		106	1	90-110	05/01/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125221

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125221BSW2								
TOC	mg/L	10	10.2		102	1	90-110	05/02/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125221

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125221BSW3								
TOC	mg/L	10	10.3		103	1	90-110	05/03/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125267

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125267BS								
COD	mg/L	50	50.0		100	1	90-110	05/03/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125291

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125291BSW								
Alkalinity	mg/L	50	48.6		97	1	80-120	05/04/2032

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125301

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125301BS								
Alkalinity	mg/L	50	53.2		106	1	80-120	05/05/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125282

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB152437BS								
TKN	mg/L	5	5.10		102	1	90-110	05/04/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125184

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB152445BS								
Phenolics	mg/L	1	0.97		97	1	80-120	04/27/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125211

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB152488BS								
Cyanide	mg/L	0.1	0.097		97	1	85-115	04/28/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125248

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB152517BS								
Ammonia as N	**mg/L**	**1**	**0.93**		**93**	**1**	**90-110**	**05/02/2023**

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. 02521
COC Number 2038362

9
9.1

CLIENT INFORMATION — REPORT TO BE SENT TO:

COMPANY: GEI Consultants
ADDRESS: 530 7th Ave. Suite 2007
CITY NY STATE: NY ZIP: 10018
ATTENTION: Stacey Ng
PHONE: (347) 514-3861 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Ferry Point
PROJECT NO.: 2204594 LOCATION: Bronx, NY
PROJECT MANAGER: Stacey Ng
e-mail: sng@geiconsultants.com
PHONE: SAME FAX:

CLIENT BILLING INFORMATION

BILL TO: SAME AS CLIENT PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ US EPA CLP
- ☒ NYS ASP A
- ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT _____

ANALYSIS

1 Phenolics 2 TCL VOC 3 Color 4 BOD5 5 Alkalinity 6 TDS 7 TCL SVOC 8 Mercury, TAL Metals 9 Hardness

PRESERVATIVES — **COMMENTS**

← Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
1.	GMW-1	W			4/26/23	8:36	19	X	X	X	X	X	X	X	X	X	
2.	PZ-15	↓			↓	9:54	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
3.	GMW-10	↓			↓	11:16	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
4.	GMW-7	↓			↓	13:21	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
5.	MS	↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
6.	MSD	↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
7.	~~T~~FB-2																
8.	FB																
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	4/26/23 15:04	1. [signature] 1504 4-26-23
2.		2.
3. [signature]	4-26-23 1830	3. SB

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 5.1 °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

2/6/23 WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. 02521
COC Number 2038363

9
9.1

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: GEI Consultants
ADDRESS: 530 7th Ave. Suite 2007
CITY: NY STATE: NY ZIP: 10018
ATTENTION: Stacey Ng
PHONE: (347) 514-3861 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Ferry Point
PROJECT NO. 2204594 LOCATION: Bronx, NY
PROJECT MANAGER: Stacey Ng
e-mail: sng@geiconsultants.com
PHONE: (347) 514-3861 FAX:

CLIENT BILLING INFORMATION

BILL TO: SAME AS CLIENT PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ EDD FORMAT _____
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☒ NYS ASP A ☐ NYS ASP B
- ☐ Other _____

ANALYSIS

1 Cyanide 2 COD 3 Ammonia 4 TKN 5 Dissolved Metals 6 Total Metals 7 Chloride, Bromide, Sulfate, nitrate, nitrite 8 pH 9 TOC

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
1.	GMW-7	W			4/26/23	8:36	19	X	X	X	X	X	X	X	X		
2.	PZ-15	↓			↓	9:54	↓	↓	↓	↓	↓	↓	↓	↓	↓		
3.	GMW-10	↓			↓	11:16	↓	↓	↓	↓	↓	↓	↓	↓	↓		
4.	GMW-7	↓			↓	13:21	↓	↓	↓	↓	↓	↓	↓	↓	↓		
5.	MS	↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		
6.	MSD	↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		
7.	~~TB~~ FB-2																
8.	FB																
9.																	
10.																	

PRESERVATIVES — ← Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	4/26/23 15:04	1. [signature] 1504 4-26-23
2.		2.
3. [signature]	DATE/TIME: 1830 4-26-23	3. SB

Conditions of bottles or coolers at receipt: ☑ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 5.1 °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2022022
Maryland	296
New Hampshire	255422
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488-22-15

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : O2521 GEIC06
Client Name : GEI Consultants, Inc., P.C.
Client Contact : Stacey Ng
Invoice Name : GEI Consultants, Inc., P.C.
Invoice Contact : Stacey Ng

Order Date : 4/27/2023 8:52:00 AM
Project Name : Ferry Point
Receive DateTime : 4/26/2023 6:30:00 PM
Purchase Order :

Project Mgr :
Report Type : ~~Level 2~~ NYS ASP A SB 5/8/23
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
O2521-01	GMW-1	Water	04/26/2023	08:36						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
O2521-03	PZ-15	Water	04/26/2023	09:54						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
O2521-05	GMW-10	Water	04/26/2023	11:16						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
O2521-07	GMW-7	Water	04/26/2023	13:21						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
O2521-09	O2521-07MS	Water	04/26/2023	13:21						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
O2521-10	O2521-07MSD	Water	04/26/2023	13:21						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
O2521-13	TB-2	Water	04/26/2023	00:00						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
O2521-14	FB	Water	04/26/2023	00:00						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : O2521 GEIC06
Client Name : GEI Consultants, Inc., P.C.
Client Contact : Stacey Ng
Invoice Name : GEI Consultants, Inc., P.C.
Invoice Contact : Stacey Ng

Order Date : 4/27/2023 8:52:00 AM
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Report Type : ~~Level 2~~ NYS ASP A SB 5/8/23
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinquished By : [signature]
Date / Time : 0853 4/27/23 9.50

Received By : [signature]
Date / Time : 04/27/23 9.50 Neg 4

Storage Area : VOA Refridgerator Room

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4996 I F: (718) 482-6391
www.dec.ny.gov

January 7, 2020

Marty Rowland, Ph.D., P.E.
Senior Project Manager for Environmental Remediation
New York City Department of Parks and Recreation
Central Project Division, Environmental Unit
Olmstead Center
Flushing Meadows
Corona Park
Flushing, NY 11368

Re: Ferry Point Park Golf Course
Permit No. 2-6006-00014/00013
Post-Closure Groundwater Monitoring
Request for Cessation for Groundwater Monitoring

Dear Mr. Rowland,

New York State Department of Environmental Conservation (Department) staff have reviewed your November 20, 2019 request to terminate the Ferry Point Golf Course post-closure groundwater monitoring program This request is based on the relatively consistent ground water elevation and flow direction, the laboratory results from ground water samples collected during both pre-closure and post closure monitoring over an eight-year period of monitoring events, and the lack of any potential direct receptors or routes of exposure associated with ground water at Ferry Point Park.

After careful review of the post-closure groundwater monitoring program, the laboratory results from ground water samples collected during both pre-closure and post closure monitoring over an eight-year period of monitoring events and specific circumstances and history of this site, the Department cannot grant this request but rather the following frequency reduction to the Ferry Point Golf Course groundwater monitoring program can be implemented:

1) Starting immediately, the Ferry Point Golf Course groundwater monitoring frequency can be reduced from annual to once every two years through 2030.

2) After 2030, the Ferry Point Golf Course groundwater monitoring frequency can be modified from once every two years to once every five years indefinitely as custodial care consistent with Part 363-9.6(b).

If you have any questions you may contact me at 718-482-4996.

Sincerely,

Kenneth B. Brezner

Kenneth B. Brezner, P.E.
Regional Material Management Engineer

ec: J. O'Connell/W. Frank, DEC R2, DMM
S. Southwell, DEC R2, DOW
K. Zias, NYCDPR
S. Laura, Woodard and Curran

FPP_Post-Closure_Groundwater_Monitoring_request_for_Cessation.2020-01-07.Letter.docx

Appendix C

Landfill Gas Monitoring Reports

April 20, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: Quarterly Landfill Gas Monitoring - Quarter 1, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the quarterly post-closure landfill gas monitoring event conducted on March 28-30, 2023, at the Ferry Point Park Golf Course. Landfill gas monitoring is conducted to measure and report landfill-related parameters at on-Site and off-Site monitoring points in compliance with the NYSDEC Permit No. 2-6006-00014/00013, the October 2013 *Post Construction Custodial Care Plan*, and the October 2013 *Landfill Gas Management Plan*.

Landfill gas monitoring included the collection of methane (percent methane by volume, percent lower explosive limit [LEL]), oxygen, carbon monoxide, hydrogen sulfide, organic vapors, well pressure, humidity, air flow, vacuum pressures, and/or temperature measurements. Data was collected using a photoionization detector (PID), a TSI Velocicalc, and a Landtek GEM5000 with CO and H_2S. All equipment was properly calibrated prior to data collection.

The Quarter 1, 2023 data tables and figure are provided in this report. Overall, the landfill gas monitoring results are consistent with prior post-closure monitoring events and illustrates that landfill gas conditions are stable.

If you have any questions, please feel free to contact me at (347) 514–3861.

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Quarter 1, 2023 Methane Monitoring Results
Figure 2 – Landfill Gas & Passive Vent Locations
Table 7A – Summary of Landfill Gas Monitoring Data March 28-30, 2023
Table 7B – Summary of Passive Vent Monitoring Data March 28-30, 2023

c: M. Rowland, NYCDPR

K. Zias, NYCDPR

K. McCarty, GEI

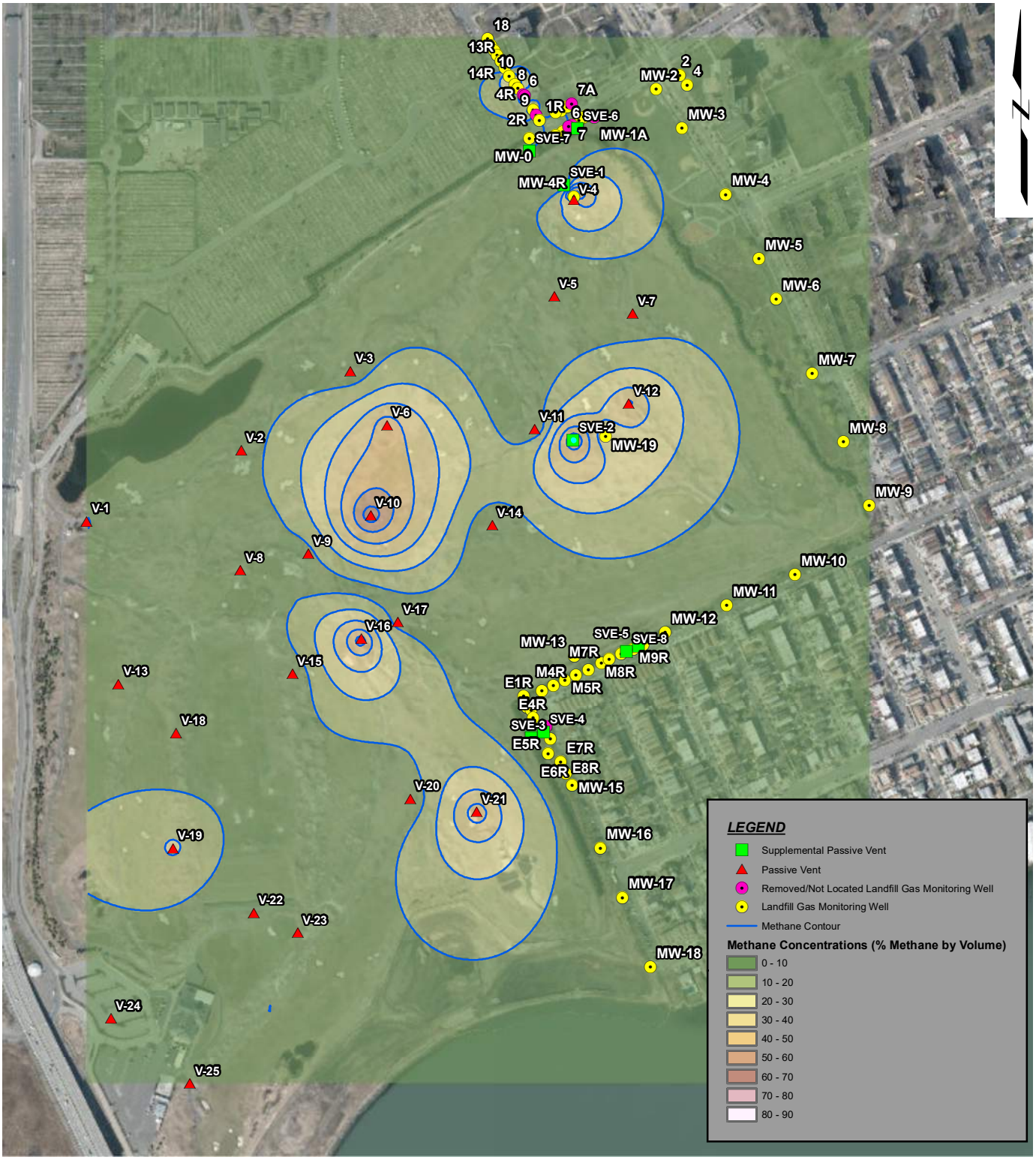

SOURCE:
1. ESRI IMAGERY BASE MAP

0 420 840
SCALE: 1 " = 575 '

Ferry Point Park Bronx, New York Landfill Gas Monitoring	GEI Consultants	QUARTER 1, 2023 METHANE MONITORING
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	April 2023 Fig. 1

B:\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\Reports\Landfill Gas Monitoring\GEI Inspections\Q1 2023\Q1 2023 Landfill Gas Monitoring.mxd

LEGEND

- Passive Vent
- Supplemental Passive Vent
- Removed/Not Located Landfill Gas Monitoring Well
- Landfill Gas Monitoring Well
- Vent Trench

SOURCE:
1. ESRI IMAGERY BASE MAP

0 140 280
SCALE:1" = 200 '

Ferry Point Park Bronx, New York Landfill Gas Monitoring	GEI Consultants	LANDFILL GAS & PASSIVE VENT LOCATIONS
New York City Department of Parks & Recreation (NYCDPR)	Project 2204594	Fig. 2

Table 7A -
Summary of Landfill Gas Monitoring Data March 28-30, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Location	Well ID	%LEL	% Meth by vol	$\%O_2$	CO (ppm)	%CO2	H_2S (ppm)	Voc's (ppm)	Well Pressure (Hg)	Temperature degrees F	Vacuum (in H20)	Notes
Emerson Ave	MW17	4	0.2	19.0	0	0.1	0	0.2	30.12	59.7	0.005	
	MW16	2	0.1	20.9	0	0.2	0	0.1	30.16	55.3	0.006	
	MW15	2	0.1	9.7	0	1.8	0	0.0	30.25	61.4	0.718	
	E8R	2	0.1	21.1	0	0.2	0	--	--	--	--	Encountered water during readings collection
	E7R	2	0.1	21.0	0	0.5	0	0.1	30.24	56.7	0.723	
	E5R	2	0.1	21.5	0	0.1	0	0.1	30.29	63.9	-0.001	
	MW14	--	--	--	--	--	--	--	--	--	--	Unable to locate
Miles Ave	M1R	0	0	17.5	0	0.9	0	0.0	30.28	58.1	0.009	Located within golf course
	M2R	0	0	17.9	0	0.8	0	0.0	30.29	59.6	0.010	Located within golf course
	M3R	2	0.1	18.2	0	0.8	0	0.0	30.29	62.6	0.157	Located within golf course
	M4R	10	0.5	19.6	0	0.4	0	0.0	30.23	60.5	0.953	Located within golf course
	M5R	2	0.1	20.9	0	0.1	0	0.1	30.29	57.2	-0.002	Located within golf course
	M6RR	4	0.2	21.1	0	0.4	0	0.1	30.29	57.5	-0.003	Located within golf course
	M7R	2	0.1	21.8	0	0.3	0	0.0	30.29	56.8	-0.001	Located within golf course
	M8R	4	0.2	21.3	0	0.2	0	0.1	30.29	61.2	-0.009	Located within golf course
	M9R	4	0.2	21.2	0	0.1	0	0.1	30.29	59.4	-0.010	Located within golf course
	M10R	4	0.2	17.6	0	2.9	0	0.0	30.29	58.6	-0.011	Located within golf course
	MW11	4	0.2	20.2	0	0.6	0	0.0	30.28	59.3	0.005	
	MW12	4	0.2	21.2	0	0.1	0	0.0	30.29	59.9	0.060	
	MW10	4	0.2	18.2	0	2.6	0	0.1	30.28	56.1	0.002	
Buttrick Ave	18	--	--	--	--	--	--	--	--	--	--	Unable to collect readings; well compacted with soil.
	17R	2	0.1	21.2	0	0.1	0	0.2	30.05	54.5	-0.007	
	16R	2	0.1	21.3	0	0.2	0	0.6	30.05	59.7	-0.004	
	14R	2	0.1	19.1	0	1.6	0	0.3	30.05	64.1	-0.004	
	13R	0	0.0	19.2	0	1.5	0	0.5	30.05	64.6	-0.002	
	12R	0	0.0	19.3	0	0.9	0	0.1	30.05	67.5	-0.005	J-plug cracked
	10	>100	30.2	0.5	0	10.6	0	0.0	30.06	63.7	-0.015	
	9	>100	28.6	2.2	0	10.3	0	0.1	30.06	62.9	-0.009	
	8	>100	27.5	4.7	0	9.7	0	0.1	30.04	61.3	0.348	
	6	--	--	--	--	--	--	--	--	--	--	Removed
	4R	--	--	--	--	--	--	--	--	--	--	Removed
	3R	>100	29.1	1.9	0	10.0	0	0.1	30.06	59.5	0.004	
	2R	--	--	--	--	--	--	--	--	--	--	Removed
	1R	8	0.4	18.1	0	3.7	0	0.1	30.06	60.3	-0.003	

Table 7A -
Summary of Landfill Gas Monitoring Data March 28-30, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Location	Well ID	%LEL	% Meth by vol	$\%O_2$	CO (ppm)	%CO2	H_2S (ppm)	Voc's (ppm)	Well Pressure (Hg)	Temperature degrees F	Vacuum (in H20)	Notes
Schley Ave	4A	2	0.1	21.8	0	0.2	0	0.1	30.04	62.1	0.030	Previously noted as "removed," however well was able to be located
	5N	2	0.1	20.6	0	0.7	0	0.1	30.06	64.3	0.007	
	7R	2	0.1	19.6	0	1.2	0	0.1	30.06	59.6	0.009	
	7A	--	--	--	--	--	--	--	--	--	--	Removed
	5S	2	0.1	21.5	0	0.5	0	0.1	30.03	58.7	-0.007	
	6	--	--	--	--	--	--	--	--	--	--	Removed
	7	--	--	--	--	--	--	--	--	--	--	Removed
	8	20	1.0	20.3	0	0.9	0	0.1	30.03	61.9	0.382	
	9	2	0.1	22.0	0	0.2	0	0.1	30.05	60.2	0.336	
	10	2	0.1	22.0	0	0.1	0	0.1	30.06	58.4	0.459	
Balcom Ave	2	2	0.1	21.3	0	0.5	0	0.1	30.03	57.3	0.005	
	4	2	0.1	21.6	0	0.3	0	0.2	30.01	58.6	0.014	
	MW2	2	0.1	21.5	0	0.2	0	0.1	30.03	59.4	0.915	
	MW3	2	0.1	21.5	0	0.1	0	0.1	30.03	60.1	0.004	
Landfill	MW4R	>100	87.3	0.1	0	5.7	0	0.1	30.06	56.7	-0.035	
	MW1A	--	--	--	--	--	--	--	--	--	--	Unable to locate
	MW0	4	0.2	16.5	0	5.5	0	0	30.06	59.1	0.003	
	MW4	2	0.1	13.7	0	6.1	0	0.7	30.04	59.7	-0.005	Located within community park
	MW5	2	0.1	20.0	0	1.0	0	0.3	30.05	59.3	-0.002	Located within community park
	MW6	2	0.1	20.1	2	1.0	0	0.1	30.05	58.9	0.010	Located within community park
	MW7	2	0.1	16.2	0	3.8	0	0.4	30.05	58.2	-0.002	Located within community park
	MW8	2	0.1	13.8	0	6.5	0	0.7	30.05	59.1	-0.004	Located within community park
	MW9	4	0.2	21.5	0	0.5	0	0.0	30.10	60.1	0.077	
	MW13	4	0.2	21.4	0	0.6	0	0.1	30.17	55.9	-0.015	
	E1R	2	0.1	21.1	0	0.3	0	0.1	30.15	58.3	0.001	
	E2R	2	0.1	20.4	0	0.5	0	0.0	30.14	57.2	0.007	
	E3R	2	0.1	20.4	0	0.2	0	0.1	30.16	59.4	0.002	
	E4R	2	0.1	21.3	0	0.1	0	0.0	30.11	56.3	0.395	
	E6R	2	0.1	21.4	0	0.1	0	0.1	30.12	57.9	-0.002	
	MW18	4	0.2	17.6	0	3	0	0.1	30.16	58.0	0.005	
	MW19	>100	22.8	0	0	13.9	1	0.2	30.10	59.4	-0.191	Broken J-plug

NOTES:
LEL - Lower Explosive Limit
% O2 - percent Oxgyen gas
% CO2 - percent Carbon Dioxide
H2S (ppm) - Hydrogen Sulfide measured in parts per million
VOCs (ppm) - Volatile Organic Compounds measured in parts per million
"Hg - inches of mercury

Table 7B
Summary of Passive Vent Monitoring Data March 28-30, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Passive Vent ID	% LEL	% Methane by volume	% O_2	CO (ppm)	% CO_2	H_2S (ppm)	VOC's (ppm)	Barometric Pressure (" Hg)	Vacuum (in H2O)	Flow (CFM)	Flow (Ft/min)	Notes
V-1	2	0.1	21.5	0	0.1	0	0.0	30.12	-0.004	0.00	0	
V-2	>100	5.2	17.5	0	2.7	0	0.0	30.09	-0.004	0.00	0	
V-3	8	0.4	20.8	0	0.6	0	0.0	30.11	-0.004	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-4	4	0.2	22.3	0	0.1	0	0.0	30.13	0.000	0.00	0	
V-5	0	0.0	21.5	0	0.0	0	0.0	30.10	-0.003	0.00	0	
V-6	>100	47.1	0.1	0	8.0	0	0.5	30.08	-0.003	0.00	0	
V-7	6	0.3	21.7	0	0.1	0	0.0	30.12	0.000	0.00	0	
V-8	4	0.2	15.1	0	1.3	0	0.1	30.06	-0.004	0.00	0	
V-9	2	0.1	21.6	0	0.1	0	0.1	30.07	-0.004	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-10	>100	68.0	2.7	1	31.0	5	2.0	30.09	0.000	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-11	2	0.1	21.1	0	0.1	0	0.0	30.09	-0.006	0.00	0	
V-12	>100	41.4	0.2	1	11.2	0	0.0	30.10	-0.004	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-13	2	0.1	21.0	0	0.1	0	0.0	30.12	-0.003	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-14	2	0.1	21.6	0	0.1	0	0.0	30.10	-0.004	0.00	0	
V-15	20	1.0	21.6	0	0.1	0	0.1	30.05	-0.005	0.00	0	
V-16	>100	56.1	0.1	3	20.7	0	1.6	30.04	-0.004	5.19	55	
V-17	100	5.0	6.6	2	11.6	0	0.0	30.10	-0.003	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-18	2	0.1	21.4	0	0.1	0	0.0	30.12	-0.003	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-19	>100	22.5	0.7	0	15.3	0	0.0	30.13	-0.002	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-20	2	0.1	21.4	0	0.1	0	0.1	30.13	0.000	0.00	0	
V-21	>100	48.3	0.2	0	18.3	0	0.0	30.14	0.009	0.52	5	
V-22	2	0.1	21.5	0	0.1	0	0.0	30.09	0.000	0.00	0	
V-23	2	0.1	21.5	0	0.1	0	0.0	30.03	-0.003	0.00	0	
V-24	2	0.1	21.4	0	0.1	0	0.1	30.14	-0.003	0.00	0	
V-25	4	0.2	21.3	0	0.1	0	0.0	30.12	-0.005	0.00	0	
SVE-1	6	0.3	21.7	0	0.1	0	0.0	30.13	0.000	0.00	0	
SVE-2	>100	61.3	0.0	0	9.1	0	0.2	30.08	-0.044	0.00	0	
SVE-3	2	0.1	21.4	0	0.1	0	0.0	30.16	0.000	0.00	0	
SVE-4	2	0.1	20.9	0	0.6	0	0.1	30.16	0.000	0.00	0	
SVE-5	4	0.2	21.1	0.0	0.2	0	0.0	30.28	-0.002	0.00	0	
SVE-6	4	0.2	22.2	0.0	0.1	0	0.0	30.15	0.000	0.00	0	
SVE-7	4	0.2	22.1	0.1	0.0	0	0.0	30.14	0.000	0.00	0	
SVE-8	4	0.2	21.2	0.0	0.1	0	0.0	30.28	-0.001	0.00	0	

NOTES:
LEL - Lower Explosive Limit
% O_2 - percent Oxgyen gas
% CO_2 - percent Carbon Dioxide
H_2S (ppm) - Hydrogen Sulfide measured in parts per million
VOCs (ppm) - Volatile Organic Compounds measured in parts per million
" Hg - inches of mercury

July 17, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Re: Quarterly Landfill Gas Monitoring - Quarter 2, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

Dear Ms. Catalanotto:

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the quarterly post-closure landfill gas monitoring event conducted on June 27-28, 2023, at the Ferry Point Park Golf Course. Landfill gas monitoring is conducted to measure and report landfill-related parameters at on-Site and off-Site monitoring points in compliance with the NYSDEC Permit No. 2-6006-00014/00013, the October 2013 *Post Construction Custodial Care Plan*, and the October 2013 *Landfill Gas Management Plan*.

Landfill gas monitoring included the collection of methane (percent methane by volume, percent lower explosive limit [LEL]), oxygen, carbon monoxide, hydrogen sulfide, organic vapors, well pressure, humidity, air flow, vacuum pressures, and/or temperature measurements. Data was collected using a photoionization detector (PID), a TSI Velocicalc, and a Landtek GEM5000 with CO and H_2S. All equipment was properly calibrated prior to data collection.

The Quarter 2, 2023 data tables and figure are provided in this report. Overall, the landfill gas monitoring results are consistent with prior post-closure monitoring events and illustrates that landfill gas conditions are stable.

If you have any questions, please feel free to contact me at (347) 514–3861.

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Quarter 2, 2023 Methane Monitoring Results
Figure 2 – Landfill Gas & Passive Vent Locations
Table 8A – Summary of Landfill Gas Monitoring Data June 27-28, 2023
Table 8B – Summary of Passive Vent Monitoring Data June 27-28, 2023

c: M. Rowland, NYCDPR

K. Zias, NYCDPR

K. McCarty, GEI

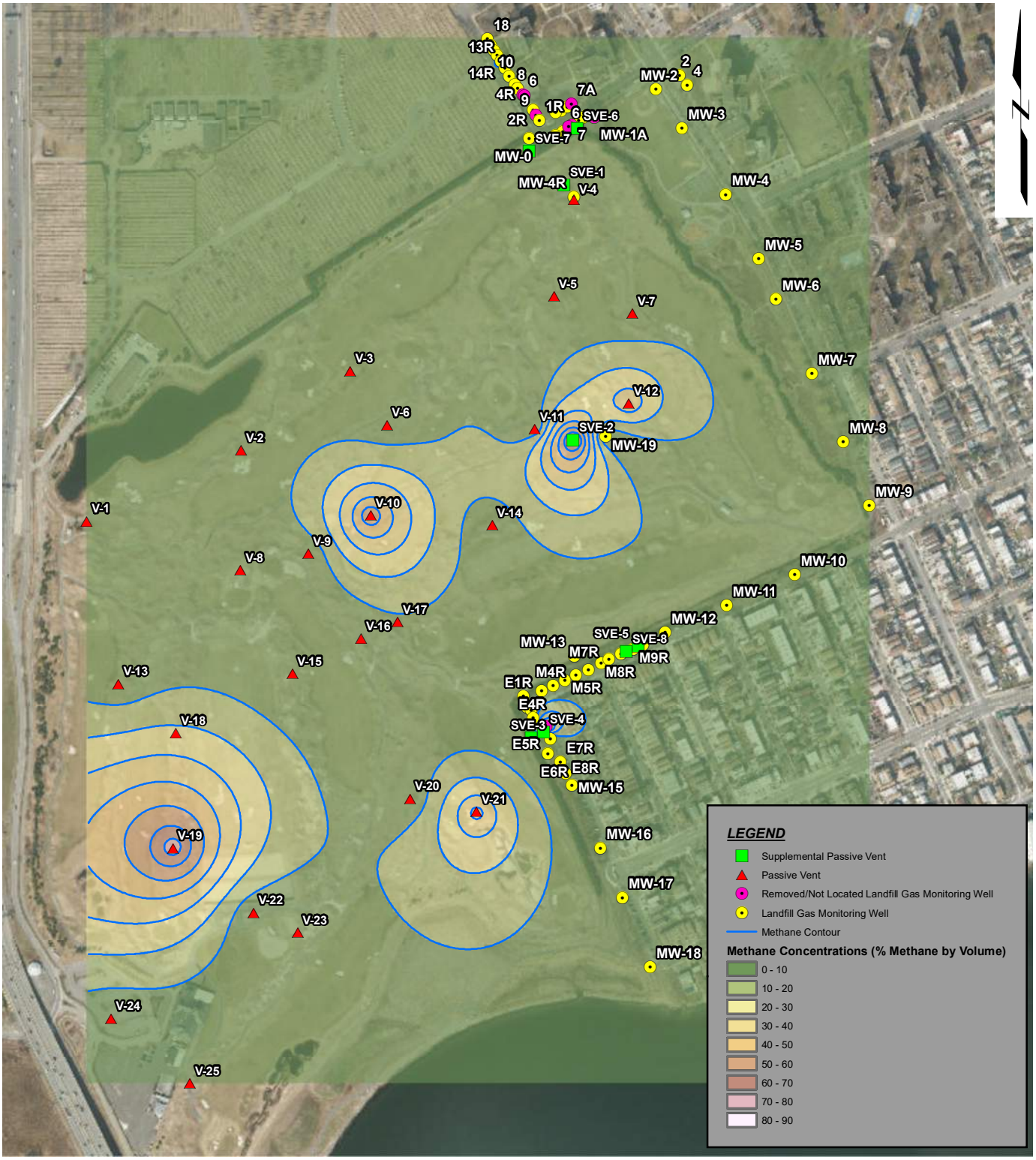

SOURCE:
1. ESRI IMAGERY BASE MAP

0 420 840
SCALE: 1 " = 575 '

Ferry Point Park Bronx, New York Landfill Gas Monitoring	GEI Consultants	QUARTER 2, 2023 METHANE MONITORING
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	July 2023 Fig. 1

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LEGEND

- Passive Vent
- Supplemental Passive Vent
- Removed/Not Located Landfill Gas Monitoring Well
- Landfill Gas Monitoring Well
- Vent Trench

SOURCE:
1. ESRI IMAGERY BASE MAP

0 140 280
SCALE:1" = 200 '

Ferry Point Park Bronx, New York Landfill Gas Monitoring	GEI Consultants	LANDFILL GAS & PASSIVE VENT LOCATIONS
New York City Department of Parks & Recreation (NYCDPR)	Project 2204594	Fig. 2

Table 8A -
Summary of Landfill Gas Monitoring Data June 27-28, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Location	Well ID	%LEL	% Meth by vol	$\%O_2$	CO (ppm)	%CO2	H_2S (ppm)	VOCs (ppm)	Well Pressure (Hg)	Temperature degrees F	Vacuum (in H20)	Notes
Emerson Ave	MW17	0	0	9.5	0	0.3	0	0.2	29.68	67.1	-0.207	
	MW16	0	0	4.3	0	0.6	0	0.5	29.69	67.1	0.018	
	MW15	0	0	3.8	0	9.5	0	0.7	29.81	66.5	0.021	
	E8R	14	0.7	19.9	0	0.5	0	1.1	29.81	66.7	0.020	
	E7R	8	0.4	19.9	0	0.3	0	1.2	29.81	67.3	0.006	
	E5R	0	0	18.9	0	0.1	0	0.1	29.81	66.4	0.114	J-plug hose bent
	MW14	>100	70.6	<<	2	27.8	0	1.5	29.81	66.1	-2.268	Well was located during this monitoring event
Miles Ave	M1R	0	0	16.8	1	4.3	0	0.8	29.80	57.3	0.016	Located within golf course; J-plug hose bent
	M2R	0	0	17.8	1	0.1	0	0.2	29.70	56.4	0.017	Located within golf course
	M3R	0	0	20.1	0	0	0	0.2	29.70	58.9	0.016	Located within golf course
	M4R	0	0	20.5	0	0.1	0	0.1	29.70	55.3	0.014	Located within golf course
	M5R	0	0	20.6	0	0.1	0	0.1	29.70	68.1	0.016	Located within golf course
	M6RR	0	0	21	0	0	0	0.1	29.70	56.9	0.016	Located within golf course
	M7R	0	0	21.2	1	0.1	0	0.2	29.70	54.1	0.015	Located within golf course
	M8R	0	0	22	0	0.1	0	0.7	29.69	67.1	0.014	Located within golf course
	M9R	0	0	21.9	0	0.1	0	0.1	29.69	67.1	0.016	Located within golf course; J-plug hose bent
	M10R	0	0	21.7	0	0.1	0	0.1	29.69	68.3	0.016	Located within golf course
	MW10	0	0	21.8	0	0	0	0.2	29.67	65.4	0.015	J-plug hose bent
	MW11	0	0	9.4	0	8.3	0	0.6	29.80	66.5	0.016	
	MW12	0	0	22.1	0	0	0	0.4	29.80	67.1	-0.612	
Buttrick Ave	18	--	--	--	--	--	--	--	--	--	--	Unable to collect readings; well compacted with soil.
	17R	0	0	20.8	0	1.2	0	0.1	29.76	68.9	0.015	J-plug hose bent
	16R	0	0	21.4	0	0.4	0	0.1	29.77	71.3	0.015	
	14R	0	0	18.4	0	2.6	0	0.1	29.77	72.8	0.015	
	13R	>100	21.8	<<	0	9.9	0	0.6	29.77	72.3	0.012	
	12R	12	0.6	18.5	1	1.4	0	0.1	29.78	74.1	0.016	J-plug hose bent
	10	>100	12.8	5.2	0	10.1	0	0.8	29.78	74.0	0.016	
	9	0	0	21.8	0	0.2	0	0.1	29.78	72.5	-0.037	J-plug hose bent
	8	0	0	18.7	0	0.2	0	1.1	29.78	71.6	0.013	
	6	--	--	--	--	--	--	--	--	--	--	Removed
	4R	--	--	--	--	--	--	--	--	--	--	Removed
	3R	0	0	20.8	0	0.7	0	0.3	29.78	73.1	0.019	J-plug hose bent
	2R	--	--	--	--	--	--	--	--	--	--	Removed
	1R	0	0	15.9	0	5.9	0	0.2	29.78	71.8	0.016	

Table 8A -
Summary of Landfill Gas Monitoring Data June 27-28, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Location	Well ID	%LEL	% Meth by vol	$\%O_2$	CO (ppm)	%CO2	H_2S (ppm)	VOCs (ppm)	Well Pressure (Hg)	Temperature degrees F	Vacuum (in H20)	Notes
Schley Ave	4A	0	0	21.3	0	0.6	0	0.2	29.80	72.3	0.015	Previously noted as "removed," however well was able to be located
	5N	0	0	20.7	0	0.9	0	0.4	29.79	73.4	0.019	
	7R	0	0	18.3	0	2.6	0	0.2	29.80	72.1	0.018	
	7A	--	--	--	--	--	--	--	--	--	--	Removed
	5S	0	0	20.8	0	1.4	0	0.7	29.79	68.9	0.018	J-plug hose bent
	6	--	--	--	--	--	--	--	--	--	--	Removed
	7	--	--	--	--	--	--	--	--	--	--	Removed
	8	0	0.0	20.1	0	1.6	0	0.3	29.79	67.9	0.018	J-plug hose bent
	9	0	0	20.2	0	1.2	0	0.2	29.79	68.9	0.017	J-plug hose bent
	10	--	--	--	--	--	--	--	--	--	--	Unable to gauge due to insect infestation
Balcom Ave	2	0	0	21.9	0	0.1	0	0.2	29.8	78.3	0.006	No well cover
	4	0	0	21.3	0	0.4	0	0.2	29.8	78.3	0.005	
	MW2	0	0	21.8	0	0.1	0	0.5	29.68	77.1	0.016	
	MW3	0	0	21.8	0	0.1	0	0.3	29.69	76.3	0.016	J-plug hose bent
Landfill	MW4R	0	0	21.7	0	0	0	0.2	29.63	78.3	0.013	
	MW1A	--	--	--	--	--	--	--	--	--	--	Unable to locate
	MW0	--	--	--	--	--	--	--	--	--	--	Unable to gauge due to wildlife in the area
	MW4	--	--	--	--	--	--	--	--	--	--	Located within community park; Unable gauge due to insect infestation
	MW5	0	0	22.0	0	0.1	0	0.5	29.68	76.5	0.016	Located within community park
	MW6	0	0	21.8	0	0.1	0	0.2	29.68	75.4	0.018	Located within community park; J-plug hose bent
	MW7	0	0	10.2	0	7	0	0.4	29.68	78.1	0.011	Located within community park
	MW8	0	0	22.1	0	0	0	0.2	29.68	78.1	0.016	Located within community park
	MW9	0	0	22.1	0	0	0	0.2	29.68	76.2	-0.382	Located within golf course
	MW13	0	0	21.4	0	0.1	0	0.2	29.7	73.8	0.028	Located within golf course
	E1R	0	0	22.6	1	0.1	0	0.1	29.6	76.1	0.009	
	E2R	--	--	--	--	--	--	--	--	--	--	Unable to access due to overgrown vegetation
	E3R	--	--	--	--	--	--	--	--	--	--	Unable to access due to overgrown vegetation
	E4R	--	--	--	--	--	--	--	--	--	--	Unable to access due to overgrown vegetation
	E6R	--	--	--	--	--	--	--	--	--	--	Unable to access due to overgrown vegetation
	MW18	--	--	--	--	--	--	--	--	--	--	Unable to access due to locked entrance
	MW19	12	0.6	15.6	0	4.5	0	4.2	29.67	76.5	0.024	J-plug hose bent

NOTES:
LEL - Lower Explosive Limit
% O2 - percent Oxygen gas
% CO2 - percent Carbon Dioxide
H2S (ppm) - Hydrogen Sulfide measured in parts per million
VOCs (ppm) - Volatile Organic Compounds measured in parts per million
"Hg - inches of mercury
<< - Undetectable reading on GEM5000 screen

Table 8B
Summary of Passive Vent Monitoring Data June 27-28, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Passive Vent ID	% LEL	% Methane by volume	% O_2	CO (ppm)	% CO_2	H_2S (ppm)	VOC's (ppm)	Barometric Pressure (" Hg)	Vacuum (in H2O)	Flow (CFM)	Flow (Ft/min)	Notes
V-1	0	0.0	19.6	0	0.0	0	0.1	29.68	0.016	0.00	0	
V-2	0	0.0	14.4	0	0.0	0	0.2	29.68	0.015	0.00	0	
V-3	0	0.0	0.9	0	0.0	0	0.1	29.67	0.015	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-4	0	0.0	21.8	0	0.0	0	0.1	29.65	0.010	0.00	0	
V-5	0	0.0	2.2	0	0.0	0	0.0	29.68	0.016	0.00	0	
V-6	2	0.1	21.5	0	0.1	0	1.5	29.68	0.015	0.00	0	
V-7	0	0.0	21.8	0	0.1	0	0.1	29.65	0.012	0.00	0	
V-8	0	0.0	21.4	0	0.1	0	1.4	29.67	0.016	0.00	0	
V-9	0	0.0	21.8	0	0.0	0	0.0	29.67	0.026	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-10	>100	60.3	1.4	0	30.0	7	0.3	29.67	0.016	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-11	0	0.0	21.2	0	0.0	0	0.1	29.68	0.016	0.00	0	
V-12	>100	40.3	0.5	2	10.1	5	0.0	29.68	0.013	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-13	10	0.5	21.1	0	0.1	0	1.3	29.68	0.017	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-14	0	0.0	21.5	0	0.0	0	0.0	29.68	0.016	0.00	30	
V-15	0	0.0	21.5	0	0.0	0	0.0	29.67	0.017	0.00	0	
V-16	22	1.1	19.3	0	1.4	0	0.0	29.68	0.016	0.00	29	
V-17	>100	8.5	18.5	1	6.5	0	0.0	29.68	0.016	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-18	>100	22.6	14.0	0	3.0	0	0.9	29.66	0.017	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-19	>100	78.6	0.0	2	19.1	0	0.5	29.68	0.017	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-20	0	0.0	21.9	0	0.2	0	0.2	29.67	0.015	0.00	33	
V-21	>100	45.1	0.8	1	18.3	0	0.1	29.68	0.012	0.52	5	
V-22	0	0.0	22.1	0	0.2	0	0.2	29.66	0.035	0.00	0	
V-23	--	--	--	--	--	--				0.00	0	Water present in vent up to the PVC.
V-24	0	0.0	21.5	0	0.0	0	0.1	29.68	0.016	0.00	0	
V-25	0	0.0	17.8	0	0.0	0	0.0	29.68	0.015	0.00	0	
SVE-1	0	0.0	22.0	0	0.0	0	0.1	29.64	0.010	0.00	0	
SVE-2	>100	80.4	1.5	0	7.5	0	1.2	29.67	0.018	0.00	0	
SVE-3	0	0.0	21.6	0	0.2	0	0.0	29.68	0.015	0.00	0	
SVE-4	0	0.0	19.8	0	0.0	0	0.0	29.67	0.016	0.00	0	
SVE-5	0	0.0	19.7	0.0	0.1	0	0.0	29.69	0.013	0.00	0	
SVE-6	0	0.0	21.7	0.0	0.0	0	0.0	29.66	0.010	0.00	0	
SVE-7	0	0.0	22.0	0.0	0.1	0	0.0	29.68	0.009	0.00	0	
SVE-8	0	0.0	16.5	0.0	0.1	0	0.0	29.69	0.014	0.00	0	

NOTES:
LEL - Lower Explosive Limit
% O_2 - percent Oxgyen gas
% CO_2 - percent Carbon Dioxide
H_2S (ppm) - Hydrogen Sulfide measured in parts per million
VOCs (ppm) - Volatile Organic Compounds measured in parts per million
" Hg - inches of mercury

Appendix D

Piezometer Monitoring Reports

February 2, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: January 2023 Piezometer Monitoring Event
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the piezometer monitoring event conducted in January 2023 at the Ferry Point Park Golf Course. Monthly piezometer monitoring is conducted in compliance with the October 2013 *Post Construction Custodial Care Plan* and the October 2013 *Landfill Gas Management Plan.*

On January 31, 2023, GEI mobilized to Site to conduct the monthly piezometer monitoring. A summary of the weather condition during the monitoring event is included in Table 1 below:

Table 1 - Summary of January 31, 2023, Weather Conditions

Date: 1/31/2023	**On site:** 07:30	**Off site:** 13:30
Weather Conditions	Light rain and snow	Mostly Cloudy
Temperature	35° F	38° F
Relative Humidity	87%	57%
Wind	NNW 3 mph	NNW 12 mph
Barometric Pressure	30.17 in	30.17 in
Precipitation	0.0 in	0.0 in

GEI gathered water level readings from 24 piezometers utilizing an electronic water level meter between the hours of 7:30 am and 1:30 pm. On January 31, 2023, high

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530 7th Avenue, Suite 2007, New York, NY 10018
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tide was at 7:47 am and low tide was at 2:23 pm. Tides were going out during the data collection window.

The attached Table 2 summarizes the January 2023 monitoring event, including the groundwater elevations collected from the piezometers.

Conclusions

The January 2023 piezometer monitoring event results indicate that all piezometers are functional and there is sufficient groundwater contouring to prevent the migration of methane off Site. The collected groundwater elevations are also consistent with historical trends and data.

A routine visual inspection of the piezometers was conducted, and the piezometers were found in good condition as follows:

- The outer protective casings remain locked.
- The inner casings and plugs remain intact and in place; and
- The outer and inner casings remain in good condition and in their intended positions.

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Piezometer Locations
Figure 2 – Summary of January 2023 Piezometer Gauging Results

c: M. Rowland, NYCDPR
K. Zias, NYCDPR
K. McCarty, GEI

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
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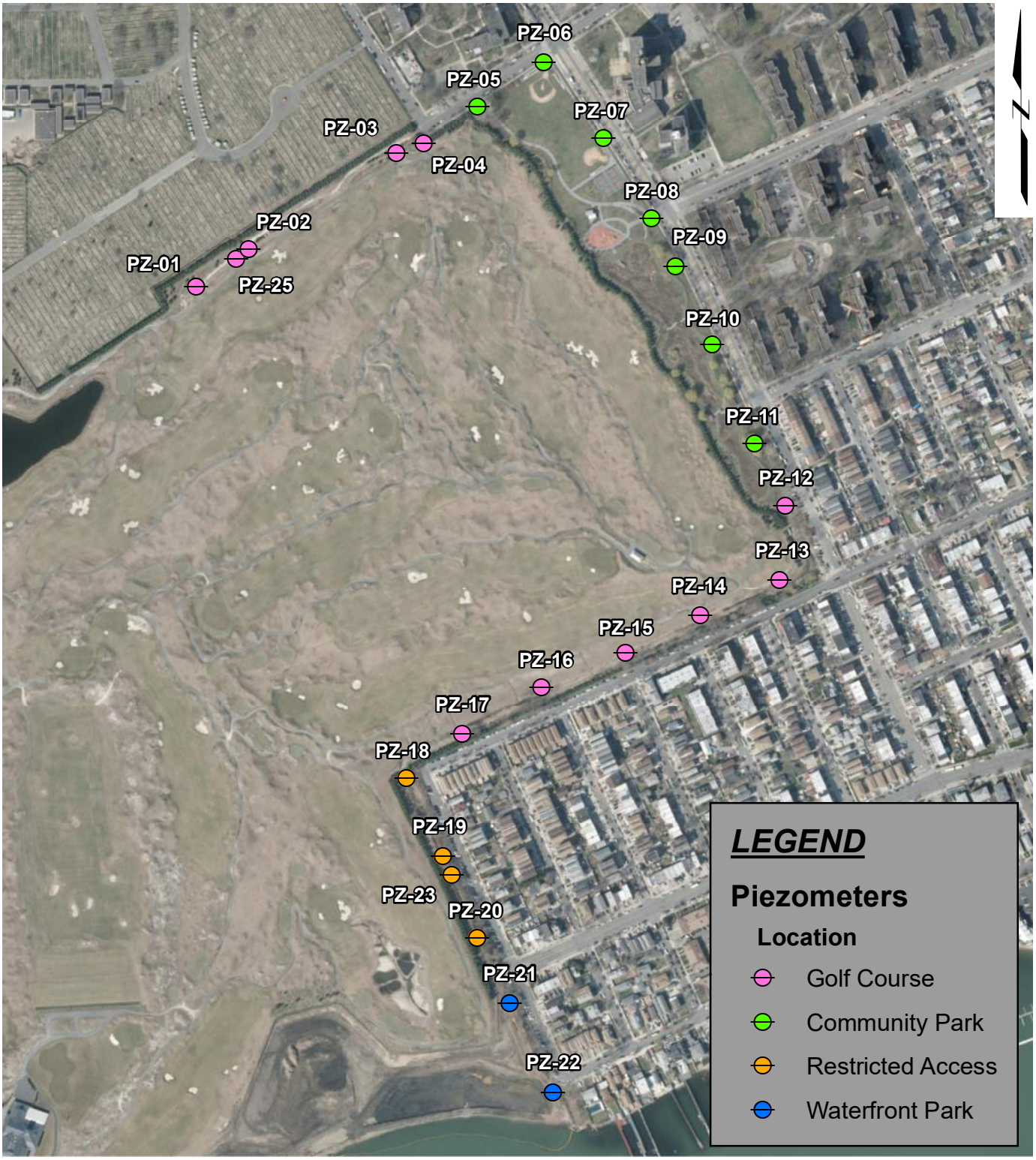

SOURCE:
1. ESRI IMAGERY BASE MAP

0 360 720
SCALE: 1 " = 500 '

Ferry Point Park Bronx, New York Health and Saftey Plan	GEI Consultants	PIEZOMETER LOCATIONS
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	Fig. 1

\\geiconsultants.com\Data\Data_Storage\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\GIS Shapefiles\Figure 1 - Piezometer Locations.mxd

Table 2
Summary of January 31, 2023 Piezometer Gauging Results
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Piezometer ID	Vent Trench Bottom Elevation (feet)	Top of Casing Elevation (feet)	Measured Depth to Water (ft bToC)	Groundwater Elevation (feet)
PZ-1	3.25	24.63	18.10	6.53
PZ-2	1.25	23.49	19.75	3.74
PZ-3	1.2	21.89	18.54	3.35
PZ-4	1.01	21.1	14.75	6.35
PZ-5	0.89	15.72	11.02	4.70
PZ-6	0.61	16.73	10.12	6.61
PZ-7	1.2	16.99	9.99	7.00
PZ-8	3.08	17.87	8.98	8.89
PZ-9	2.82	18.89	9.36	9.53
PZ-10	3.82	18.59	9.45	9.14
PZ-11	2.7	17.68	7.82	9.86
PZ-12	1.96	16.96	9.81	7.15
PZ-13	2.52	9.67	2.54	7.13
PZ-14	NA	10.82	3.24	7.58
PZ-15	NA	9.26	3.06	6.20
PZ-16	NA	9.8	2.72	7.08
PZ-17	NA	9.38	2.77	6.61
PZ-18	3.7	14.42	7.29	7.13
PZ-19	1.6	16.29	9.74	6.55
PZ-20	2.2	11.68	7.11	4.57
PZ-21	1.51	14.46	11.52	2.94
PZ-22	-1.6	13.58	10.04	3.54
PZ-23	1.4	16.46	12.78	3.68
PZ-25	1.35	23.54	19.74	3.80

Note:
ft bToC - feet below top of casing

February 28, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: February 2023 Piezometer Monitoring Event
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the piezometer monitoring event conducted in February 2023 at the Ferry Point Park Golf Course. Monthly piezometer monitoring is conducted in compliance with the October 2013 *Post Construction Custodial Care Plan* and the October 2013 *Landfill Gas Management Plan.*

On February 24, 2023, GEI mobilized to Site to conduct the monthly piezometer monitoring. A summary of the weather condition during the monitoring event is included in Table 1 below:

Table 1 - Summary of February 24, 2023, Weather Conditions		
Date: 2/24/2023	**On site:** 08:00	**Off site:** 13:30
Weather Conditions	Mostly Cloudy	Mostly Sunny
Temperature	45° F	40° F
Relative Humidity	76%	43%
Wind	NW 9 mph	NW 12 mph
Barometric Pressure	30.07 in	30.23 in
Precipitation	0.0 in	0.0 in

GEI gathered water level readings from 24 piezometers utilizing an electronic water level meter between the hours of 8:00 am and 1:30 pm. On February 24, 2023, low

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212.687.8282

tide was at 9:16 am and high tide was at 2:55 pm. Tides were rising during the majority of the data collection window.

The attached Table 2 summarizes the February 2023 monitoring event, including the groundwater elevations collected from the piezometers.

Conclusions

The February 2023 piezometer monitoring event results indicate that all piezometers are functional and there is sufficient groundwater contouring to prevent the migration of methane off Site. The collected groundwater elevations are also consistent with historical trends and data.

A routine visual inspection of the piezometers was conducted, and the piezometers were found in good condition as follows:

- The outer protective casings remain locked.
- The inner casings and plugs remain intact and in place; and
- The outer and inner casings remain in good condition and in their intended positions.

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Piezometer Locations
Figure 2 – Summary of February 2023 Piezometer Gauging Results

c: M. Rowland, NYCDPR
K. Zias, NYCDPR
K. McCarty, GEI

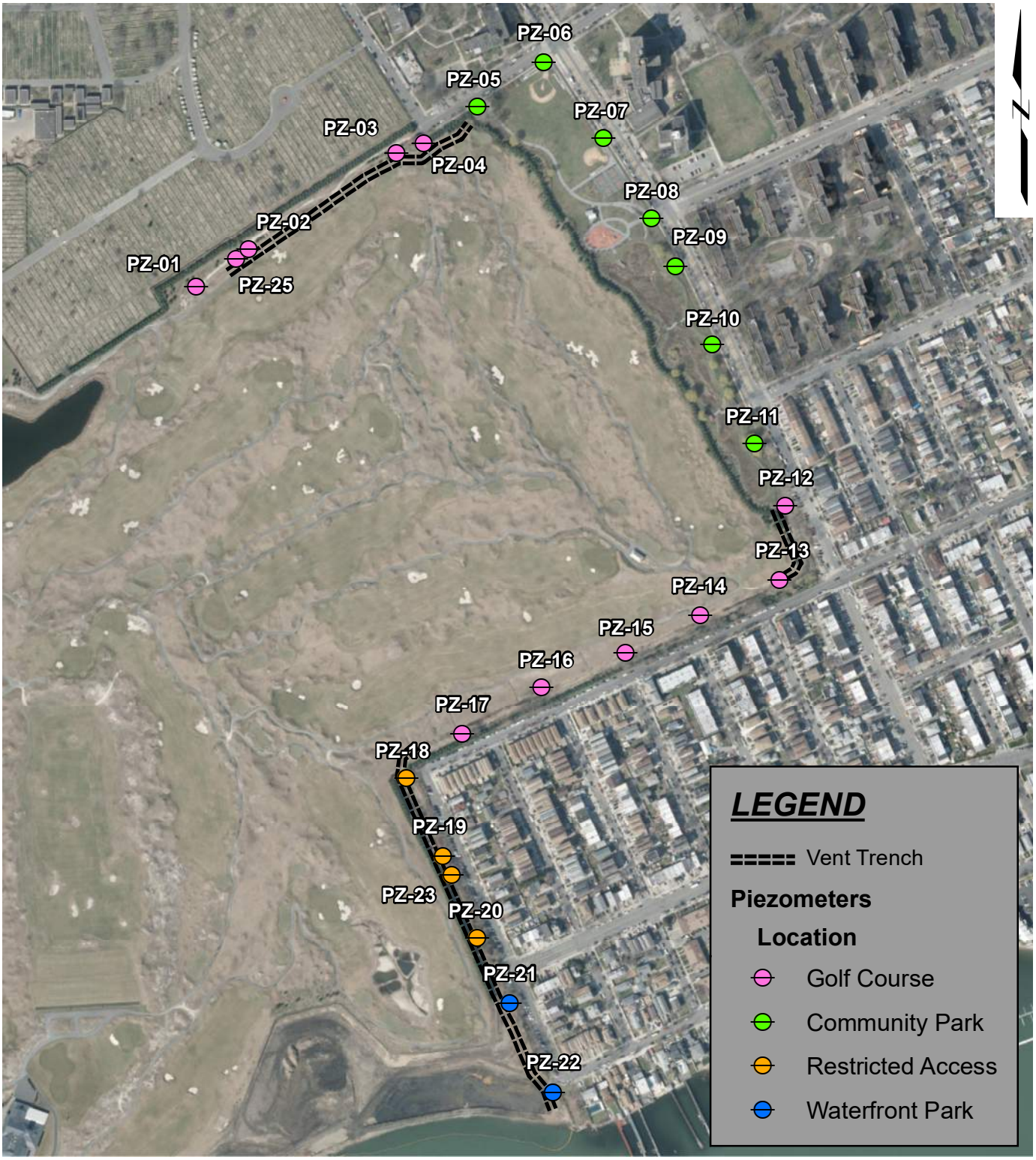

SOURCE:
1. ESRI IMAGERY BASE MAP

0 360 720
SCALE: 1 " = 500 '

Ferry Point Park Bronx, New York Monthly Piezometer Monitoring	GEI Consultants	PIEZOMETER LOCATIONS
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	Fig. 1

\\geiconsultants.com\Data\Data_Storage\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\GIS Shapefiles\Figure 1 - Piezometer Locations with Vent Trench.mxd

Table 2
Summary of February 24, 2023 Piezometer Gauging Results
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Piezometer ID	Vent Trench Bottom Elevation (feet)	Top of Casing Elevation (feet)	Measured Depth to Water (ft bToC)	Groundwater Elevation (feet)
PZ-1	3.25	24.63	18.12	6.51
PZ-2	1.25	23.49	19.78	3.71
PZ-3	1.20	21.89	18.56	3.33
PZ-4	1.01	21.1	14.71	6.39
PZ-5	0.89	15.72	10.99	4.73
PZ-6	0.61	16.73	10.08	6.65
PZ-7	1.20	16.99	9.97	7.02
PZ-8	3.08	17.87	8.92	8.95
PZ-9	2.82	18.89	9.1	9.79
PZ-10	3.82	18.59	9.15	9.44
PZ-11	2.70	17.68	7.75	9.93
PZ-12	1.96	16.96	9.75	7.21
PZ-13	2.52	9.67	2.51	7.16
PZ-14	NA	10.82	3.20	7.62
PZ-15	NA	9.26	2.98	6.28
PZ-16	NA	9.8	2.71	7.09
PZ-17	NA	9.38	2.75	6.63
PZ-18	3.70	14.42	8.61	5.81
PZ-19	1.60	16.29	10.43	5.86
PZ-20	2.20	11.68	7.71	3.97
PZ-21	1.51	14.46	12.16	2.30
PZ-22	-1.60	13.58	12.85	0.73
PZ-23	1.40	16.46	10.61	5.85
PZ-25	1.35	23.54	19.71	3.83

Note:
ft bToC - feet below top of casing

March 30, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: March 2023 Piezometer Monitoring Event
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the piezometer monitoring event conducted in March 2023 at the Ferry Point Park Golf Course. Monthly piezometer monitoring is conducted in compliance with the October 2013 *Post Construction Custodial Care Plan* and the October 2013 *Landfill Gas Management Plan.*

On March 29, 2023, GEI mobilized to Site to conduct the monthly piezometer monitoring. A summary of the weather conditions during the monitoring event is included in Table 1 below:

Table 1 - Summary of March 29, 2023, Weather Conditions		
Date: 3/29/2023	**On site:** 07:00	**Off site:** 15:30
Weather Conditions	Sunny	Mostly Sunny
Temperature	39°F	53°F
Relative Humidity	37%	20%
Wind	NNW 2 mph	SW 8 mph
Barometric Pressure	30.17 in	30.04 in
Precipitation	0.0 in	0.0 in

GEI gathered water level readings from 23 out of 24 currently known piezometers utilizing an electronic water level meter between the hours of 7:00 am and 3:30 pm.

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On March 29, 2023, low tide was at 11:29 am and high tide was at 5:13 pm. Tides were alternating during the data collection window.

PZ-11 was unable to be located in the southeastern area of the Community Park. The well location was previously marked out on the fronting fence post, adjacent to the park entrance. However, upon inspection of the area, PZ-11 could not be located, possibly due to vegetation, vandalism, or landscaping (downed tree nearby).

Table 2 attached summarizes the March 2023 monitoring event, including the groundwater elevations collected from the accessible piezometers.

Conclusions

The March 2023 piezometer monitoring event results indicate that all piezometers, except PZ-11, are functional and there is sufficient groundwater contouring to prevent the migration of methane off Site. The collected groundwater elevations are also consistent with historical trends and data.

A routine visual inspection of the piezometers was conducted, and all located piezometers were found in good condition as follows:

- The outer protective casings remain locked;
- The inner casings and plugs remain intact and in place; and
- The outer and inner casings remain in good condition and in their intended positions.

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Piezometer Locations
Figure 2 – Summary of March 2023 Piezometer Gauging Results

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

c: M. Rowland, NYCDPR

K. Zias, NYCDPR

K. McCarty, GEI

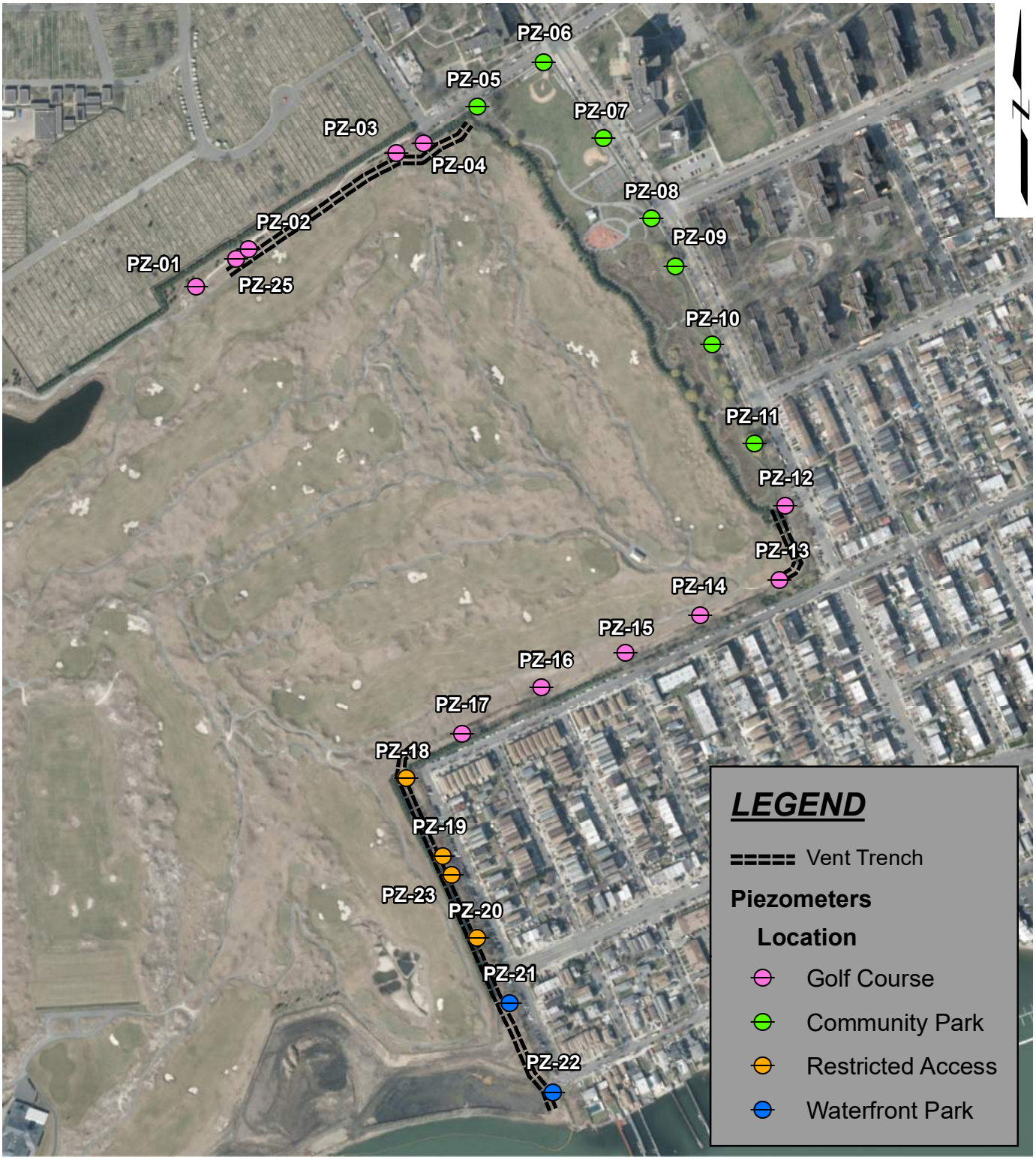

SOURCE:
1. ESRI IMAGERY BASE MAP

0 360 720
SCALE: 1 " = 500 '

Ferry Point Park Bronx, New York Monthly Piezometer Monitoring	GEI Consultants	PIEZOMETER LOCATIONS
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	Fig. 1

\\geiconsultants.com\Data\Data_Storage\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\GIS Shapefiles\Figure 1 - Piezometer Locations with Vent Trench.mxd

Table 2
Summary of March 29, 2023 Piezometer Gauging Results
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Piezometer ID	Vent Trench Bottom Elevation (feet)	Top of Casing Elevation (feet)	Measured Depth to Water (ft bToC)	Groundwater Elevation (feet)
PZ-1	3.25	24.63	21.02	3.61
PZ-2	1.25	23.49	19.87	3.62
PZ-3	1.20	21.89	18.69	3.20
PZ-4	1.01	21.1	14.86	6.24
PZ-5	0.89	15.72	11.16	4.56
PZ-6	0.61	16.73	9.99	6.74
PZ-7	1.20	16.99	9.95	7.04
PZ-8	3.08	17.87	8.98	8.89
PZ-9	2.82	18.89	9.62	9.27
PZ-10	3.82	18.59	9.74	8.85
PZ-11	2.70	17.68	--	--
PZ-12	1.96	16.96	10.02	6.94
PZ-13	2.52	9.67	2.69	6.98
PZ-14	NA	10.82	3.01	7.81
PZ-15	NA	9.26	2.81	6.45
PZ-16	NA	9.8	2.70	7.10
PZ-17	NA	9.38	2.79	6.59
PZ-18	3.70	14.42	7.42	7.00
PZ-19	1.60	16.29	10.10	6.19
PZ-20	2.20	11.68	7.43	4.25
PZ-21	1.51	14.46	12.05	2.41
PZ-22	-1.60	13.58	12.24	1.34
PZ-23	1.40	16.46	13.12	3.34
PZ-25	1.35	23.54	19.83	3.71

Note:
ft bToC - feet below top of casing
NA = PZ's not adjacent to the vent trench
PZ-1 through PZ-22 installed with 5' screen
PZ-23 and PZ-25 installed with 10' screen
Could not locate PZ-11 (within Community Park)

April 27, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: April 2023 Piezometer Monitoring Event
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the piezometer monitoring event conducted in April 2023 at the Ferry Point Park Golf Course. Monthly piezometer monitoring is conducted in compliance with the October 2013 *Post Construction Custodial Care Plan* and the October 2013 *Landfill Gas Management Plan.*

On April 24, 2023, GEI mobilized to Site to conduct the monthly piezometer monitoring. A summary of the weather conditions during the monitoring event is included in Table 1 below:

Table 1 - Summary of April 24, 2023, Weather Conditions		
Date: 4/24/2023	**On site:** 07:00	**Off site:** 13:30
Weather Conditions	Sunny	Partly Sunny
Temperature	45°F	56°F
Relative Humidity	78%	44%
Wind	NW 3 mph	WNW 3 mph
Barometric Pressure	30.04 in	30.02 in
Precipitation	0.0 in	0.0 in

GEI gathered water level readings from 23 out of 24 currently known piezometers utilizing an electronic water level meter between the hours of 7:00 am and 1:30 pm.

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On April 24, 2023, low tide was at 11:37 am and high tide was at 5:03 pm. Tides were going out during the majority of the data collection window.

Since the March 2023 monitoring event, PZ-11 is still unable to be located in the southeastern area of the Community Park. The well location is marked out on the fronting fence post, adjacent to the park entrance, however, following closer inspection of the area, PZ-11 cannot be located, possibly due to vegetation, vandalism, or landscaping (downed tree nearby).

Evidence of well tampering was noted at PZ-05, also located within the Community Park. Upon arrival, the well cover was found open, leaving the j-plug to the piezometer exposed. GEI re-secured the cover in place following monitoring.

Table 2 attached summarizes the April 2023 monitoring event, including the groundwater elevations collected from the accessible piezometers.

Conclusions

The April 2023 piezometer monitoring event results indicate that all piezometers, except PZ-11, are functional and there is sufficient groundwater contouring to prevent the migration of methane off Site. The collected groundwater elevations are also consistent with historical trends and data.

A routine visual inspection of the piezometers was conducted, and all located piezometers were found in good condition as follows:

- The outer protective casings remain locked (if applicable);
- The inner casings and plugs remain intact and in place; and
- The outer and inner casings remain in good condition and in their intended positions.

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Piezometer Locations
Figure 2 – Summary of April 2023 Piezometer Gauging Results

c: M. Rowland, NYCDPR

K. Zias, NYCDPR

K. McCarty, GEI

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

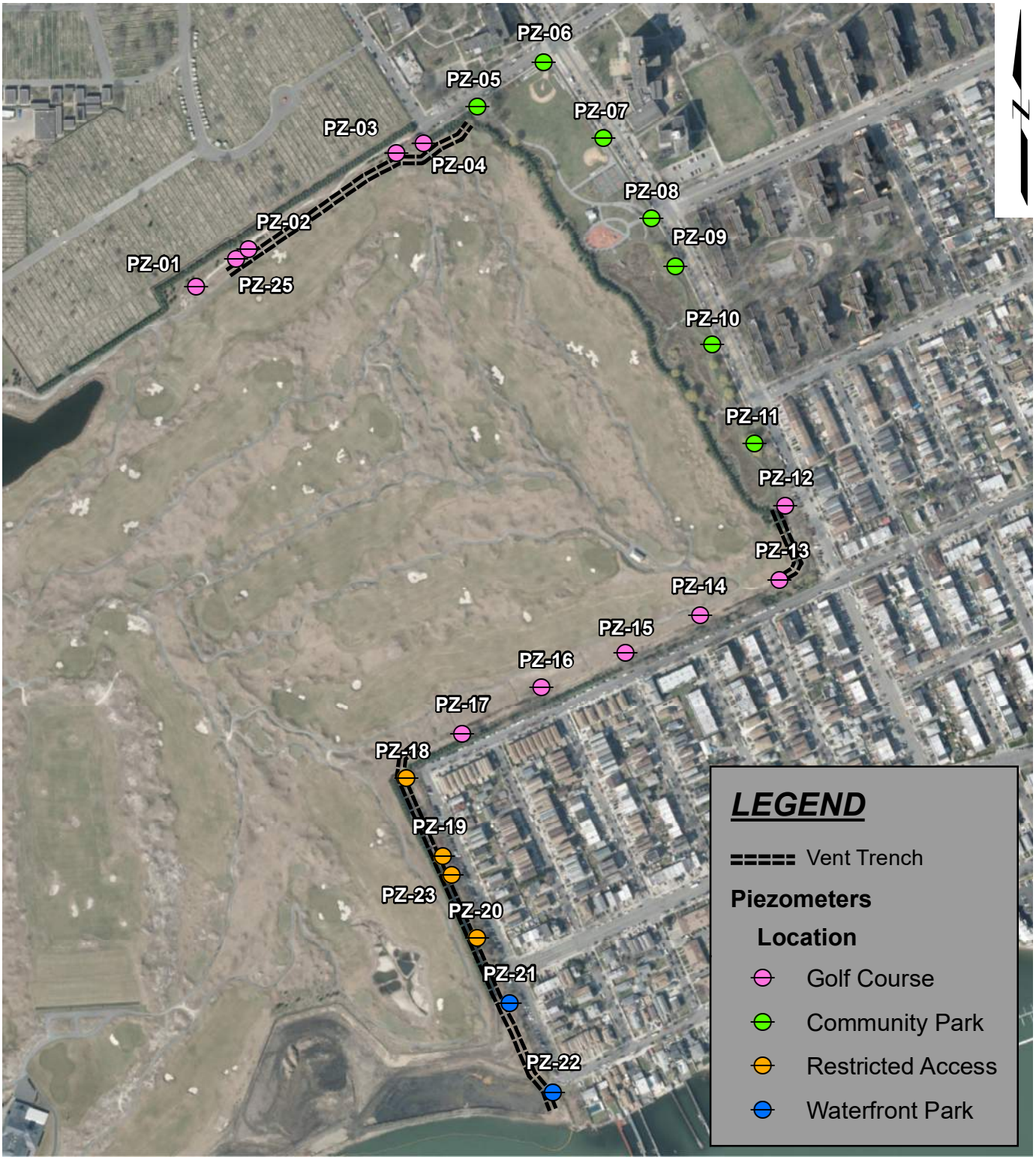

SOURCE:
1. ESRI IMAGERY BASE MAP

0 360 720
SCALE: 1 " = 500 '

Ferry Point Park Bronx, New York Monthly Piezometer Monitoring	GEI Consultants	PIEZOMETER LOCATIONS
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	Fig. 1

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Table 2
Summary of April 24, 2023 Piezometer Gauging Results
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Piezometer ID	Vent Trench Bottom Elevation (feet)	Top of Casing Elevation (feet)	Measured Depth to Water (ft bToC)	Groundwater Elevation (feet)
PZ-1	3.25	24.63	20.09	4.54
PZ-2	1.25	23.49	19.92	3.57
PZ-3	1.20	21.89	18.71	3.18
PZ-4	1.01	21.1	16.53	4.57
PZ-5	0.89	15.72	11.31	4.41
PZ-6	0.61	16.73	9.78	6.95
PZ-7	1.20	16.99	11.24	5.75
PZ-8	3.08	17.87	9.12	8.75
PZ-9	2.82	18.89	9.81	9.08
PZ-10	3.82	18.59	9.98	8.61
PZ-11	2.70	17.68	--	--
PZ-12	1.96	16.96	10.21	6.75
PZ-13	2.52	9.67	2.60	7.07
PZ-14	NA	10.82	3.41	7.41
PZ-15	NA	9.26	3.11	6.15
PZ-16	NA	9.8	2.55	7.25
PZ-17	NA	9.38	2.65	6.73
PZ-18	3.70	14.42	7.59	6.83
PZ-19	1.60	16.29	9.26	7.03
PZ-20	2.20	11.68	7.12	4.56
PZ-21	1.51	14.46	11.96	2.50
PZ-22	-1.60	13.58	12.45	1.13
PZ-23	1.40	16.46	12.92	3.54
PZ-25	1.35	23.54	19.87	3.67

Note:
ft bToC - feet below top of casing
NA = PZ's not adjacent to the vent trench
PZ-1 through PZ-22 installed with 5' screen
PZ-23 and PZ-25 installed with 10' screen
Could not locate PZ-11 (within Community Park)

May 23, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: May 2023 Piezometer Monitoring Event
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the piezometer monitoring event conducted in May 2023 at the Ferry Point Park Golf Course. Monthly piezometer monitoring is conducted in compliance with the October 2013 *Post Construction Custodial Care Plan* and the October 2013 *Landfill Gas Management Plan.*

On May 22, 2023, GEI mobilized to Site to conduct the monthly piezometer monitoring. A summary of the weather conditions during the monitoring event is included in Table 1 below:

Table 1 - Summary of May 22, 2023, Weather Conditions		
Date: 5/22/2023	**On site:** 08:00	**Off site:** 14:00
Weather Conditions	Partly Sunny	Partly Sunny
Temperature	62°F	67°F
Relative Humidity	73%	64%
Wind	N 3 mph	NE 4 mph
Barometric Pressure	30.11 in	30.15 in
Precipitation	0.0 in	0.0 in

GEI gathered water level readings from the 24 piezometers utilizing an electronic water level meter between the hours of 8:00 am and 2:00 pm. On May 22, 2023,

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

high tide was at 8:51 am and low tide was at 2:31 pm. Tides were going out during the majority of the data collection window.

During this piezometer monitoring event, PZ-11, which was previously unable to be located due to vegetation, was found and gauged along with the other piezometers located in the Community Park.

Table 2 attached summarizes the May 2023 monitoring event, including the groundwater elevations collected from the accessible piezometers.

Conclusions

The May 2023 piezometer monitoring event results indicate that all piezometers are functional and there is sufficient groundwater contouring to prevent the migration of methane off Site. The collected groundwater elevations are also consistent with historical trends and data.

A routine visual inspection of the piezometers was conducted, and the piezometers were found in good condition as follows:

- The outer protective casings remain locked.
- The inner casings and plugs remain intact and in place; and
- The outer and inner casings remain in good condition and in their intended positions.

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Piezometer Locations
Figure 2 – Summary of May 2023 Piezometer Gauging Results

c: M. Rowland, NYCDPR

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

K. Zias, NYCDPR

K. McCarty, GEI

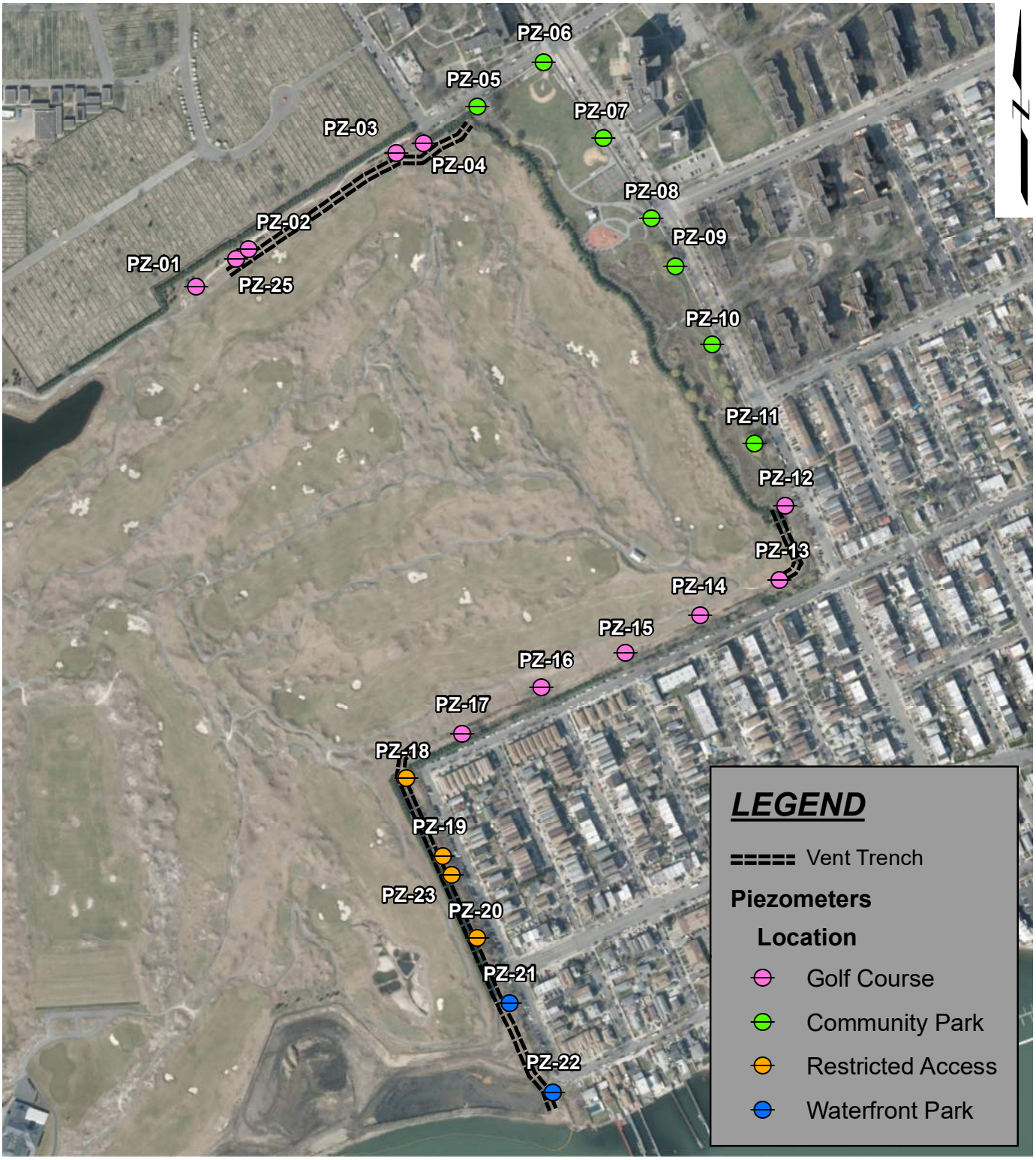

SOURCE:
1. ESRI IMAGERY BASE MAP

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SCALE: 1 " = 500 '

Ferry Point Park Bronx, New York Monthly Piezometer Monitoring	GEI Consultants	PIEZOMETER LOCATIONS
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	Fig. 1

\\geiconsultants.com\Data\Data_Storage\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\GIS Shapefiles\Figure 1 - Piezometer Locations with Vent Trench.mxd

Table 2
Summary of May 22, 2023 Piezometer Gauging Results
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Piezometer ID	Vent Trench Bottom Elevation (feet)	Top of Casing Elevation (feet)	Measured Depth to Water (ft bToC)	Groundwater Elevation (feet)
PZ-1	3.25	24.63	20.78	3.85
PZ-2	1.25	23.49	19.55	3.94
PZ-3	1.20	21.89	18.41	3.48
PZ-4	1.01	21.1	16.19	4.91
PZ-5	0.89	15.72	11.08	4.64
PZ-6	0.61	16.73	10.17	6.56
PZ-7	1.20	16.99	11.22	5.77
PZ-8	3.08	17.87	11.15	6.72
PZ-9	2.82	18.89	9.74	9.15
PZ-10	3.82	18.59	9.87	8.72
PZ-11	2.70	17.68	7.69	9.99
PZ-12	1.96	16.96	10.01	6.95
PZ-13	2.52	9.67	2.71	6.96
PZ-14	NA	10.82	3.34	7.48
PZ-15	NA	9.26	3.40	5.86
PZ-16	NA	9.8	2.54	7.26
PZ-17	NA	9.38	2.81	6.57
PZ-18	3.70	14.42	7.50	6.92
PZ-19	1.60	16.29	9.81	6.48
PZ-20	2.20	11.68	7.21	4.47
PZ-21	1.51	14.46	12.03	2.43
PZ-22	-1.60	13.58	10.60	2.98
PZ-23	1.40	16.46	13.21	3.25
PZ-25	1.35	23.54	19.55	3.99

Note:
ft bToC - feet below top of casing
NA = PZ's not adjacent to the vent trench
PZ-1 through PZ-22 installed with 5' screen
PZ-23 and PZ-25 installed with 10' screen

July 11, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: June 2023 Piezometer Monitoring Event
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the piezometer monitoring event conducted in June 2023 at the Ferry Point Park Golf Course. Monthly piezometer monitoring is conducted in compliance with the October 2013 *Post Construction Custodial Care Plan* and the October 2013 *Landfill Gas Management Plan.*

On June 27, 2023, GEI mobilized to Site to conduct the monthly piezometer monitoring. A summary of the weather conditions during the monitoring event is included in Table 1 below:

Table 1 - Summary of June 27, 2023, Weather Conditions		
Date: 6/27/2023	**On site:** 07:00	**Off site:** 15:00
Weather Conditions	Fog	Partly Sunny
Temperature	66°F	78°F
Relative Humidity	79%	83%
Wind	W 1 mph	N 2 mph
Barometric Pressure	29.8 in	29.7 in
Precipitation	0.0 in	0.0 in

GEI gathered water level readings from the 18 of the 24 piezometers utilizing an electronic water level meter between the hours of 7:00 am and 3:00 pm. On June

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27, 2023, high tide was at 6:14 am and low tide was at 12:31 pm. Tides were going out during the majority of the data collection window.

During this piezometer monitoring event, PZ-18, PZ-19, PZ-20 and PZ-23, located in a gated area along the southeastern boundary of the golf course, were unable to be gauged due to overgrown vegetation limiting access in the area. Additionally, PZ-21 and PZ-23, located in a gated area within the Waterfront Park, were also unable to be accessed due to a locked entrance.

Table 2 attached summarizes the June 2023 monitoring event, including the groundwater elevations collected from the accessible piezometers.

Conclusions

The June 2023 piezometer monitoring event results indicate that the 18 accessible piezometers are functional and there is sufficient groundwater contouring to prevent the migration of methane off Site. The collected groundwater elevations are also consistent with historical trends and data.

A routine visual inspection of the piezometers was conducted, and the accessible piezometers were found in good condition as follows:

- The outer protective casings remain locked.
- The inner casings and plugs remain intact and in place; and
- The outer and inner casings remain in good condition and in their intended positions.

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Piezometer Locations
Figure 2 – Summary of June 2023 Piezometer Gauging Results

c: M. Rowland, NYCDPR

K. Zias, NYCDPR

K. McCarty, GEI

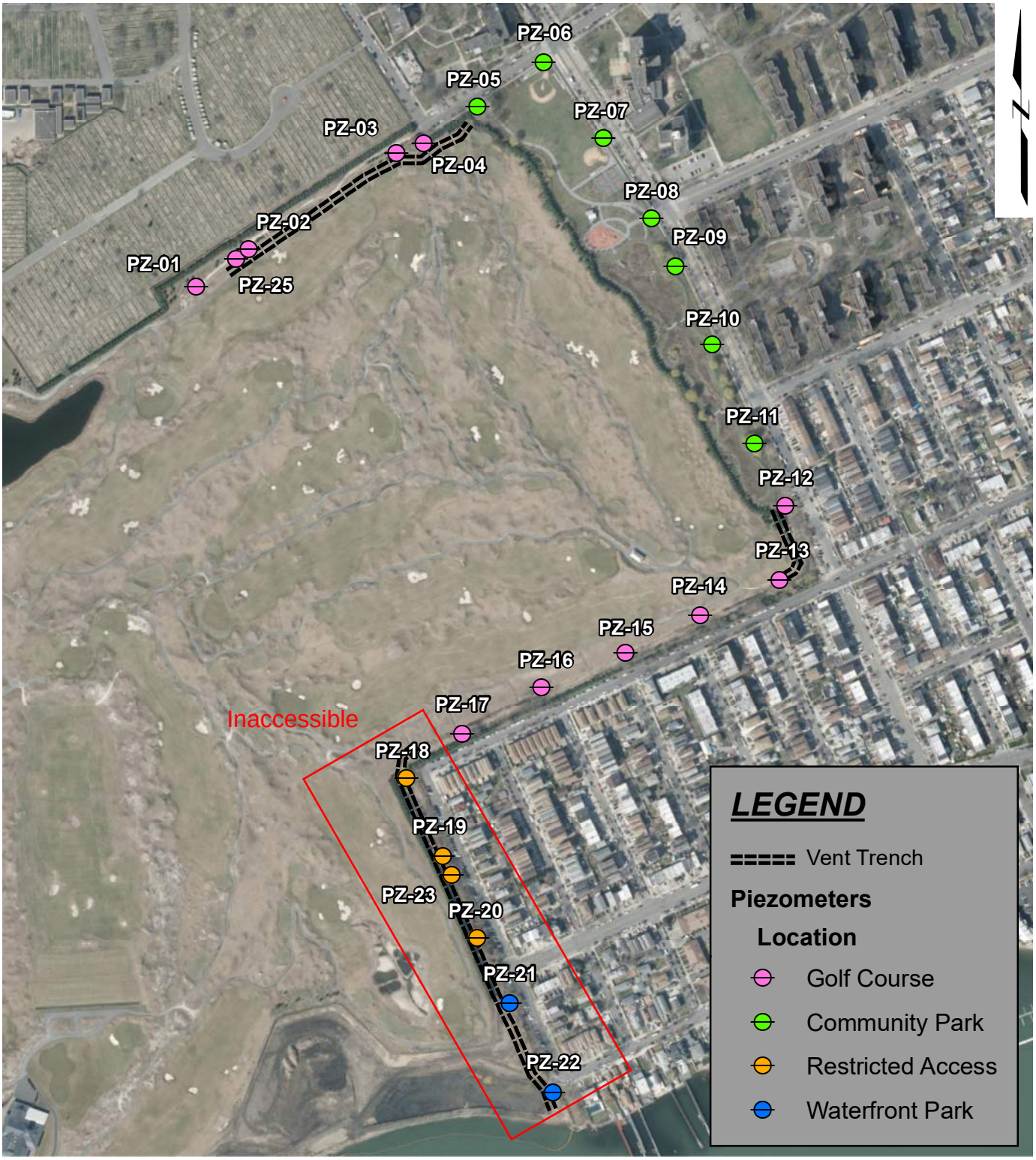

SOURCE:
1. ESRI IMAGERY BASE MAP

0 360 720
SCALE: 1 " = 500 '

Ferry Point Park Bronx, New York Monthly Piezometer Monitoring	GEI Consultants	PIEZOMETER LOCATIONS
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	Fig. 1

\\geiconsultants.com\Data\Data_Storage\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\GIS Shapefiles\Figure 1 - Piezometer Locations with Vent Trench.mxd

Table 2
Summary of June 27, 2023 Piezometer Gauging Results
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Piezometer ID	Vent Trench Bottom Elevation (feet)	Top of Casing Elevation (feet)	Measured Depth to Water (ft bToC)	Groundwater Elevation (feet)
PZ-1	3.25	24.63	21.03	3.60
PZ-2	1.25	23.49	19.86	3.63
PZ-3	1.20	21.89	18.71	3.18
PZ-4	1.01	21.1	16.53	4.57
PZ-5	0.89	15.72	11.37	4.35
PZ-6	0.61	16.73	10.41	6.32
PZ-7	1.20	16.99	10.52	6.47
PZ-8	3.08	17.87	11.02	6.85
PZ-9	2.82	18.89	10.34	8.55
PZ-10	3.82	18.59	10.54	8.05
PZ-11	2.70	17.68	8.13	9.55
PZ-12	1.96	16.96	10.64	6.32
PZ-13	2.52	9.67	3.62	6.05
PZ-14	NA	10.82	3.85	6.97
PZ-15	NA	9.26	4.11	5.15
PZ-16	NA	9.8	2.49	7.31
PZ-17	NA	9.38	2.91	6.47
PZ-18	3.70	14.42	--	Inaccessible
PZ-19	1.60	16.29	--	
PZ-20	2.20	11.68	--	
PZ-21	1.51	14.46	--	
PZ-22	-1.60	13.58	--	
PZ-23	1.40	16.46	--	
PZ-25	1.35	23.54	19.83	3.71

Note:
ft bToC - feet below top of casing
NA = PZ's not adjacent to the vent trench
PZ-1 through PZ-22 installed with 5' screen
PZ-23 and PZ-25 installed with 10' screen
PZ-18 through PZ-23 inaccessible during June monitoring event

Appendix E

Settlement Plate Monitoring Report

NYSDEC Settlement Plate Monitoring Termination Letter

REV June 5, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: 2023 Annual Settlement Plate Monitoring Report
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the annual settlement plate monitoring event conducted on March 29, 2023, at the Ferry Point Park Golf Course.

Long-term settlement monitoring initially began following completion of the golf course, which included the importation and placement of significant volumes of fill material in various thicknesses around the site, as well as construction of a large Clubhouse structure. Monitoring is currently conducted on an annual basis to survey and report elevation data, and to determine if significant changes (rise or fall) have occurred at the any of the nine (9) plate locations since the last monitoring event.

Monitoring/surveying was performed in compliance with Section 3.3.2.4 of the October 2013 *Post Construction Custodial Care Plan, DEC Permit No. 2-6006-00014/000013,* and the New York State Department of Environmental Conservation (NYSDEC) letter, dated January 7, 2020, providing approval to modify the settlement plate monitoring frequency from quarterly to annually.

The settlement plate surveying was performed by GEI's subcontractor, Contractors Line and Grade of Elmsford, NY. Enclosed is a copy of the latest report, signed and sealed by a licensed surveyor, providing elevation data since October 2013. A

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summary of the last few years since commencing annual monitoring is provided below.

Date Surveyed	Settlement (feet)								
	Plate 1	Plate 2	Plate 3	Plate 4	Plate 5	Plate 6	Plate 7	Plate 8	Plate 9
3/5/2020	-0.04	-0.01	0.00	0.01	-0.02	-0.11	-0.02	0.01	-0.04
4/8/2021	0.02	0.01	0.02	-0.02	0.02	0.12	-0.01	-0.01	0.01
3/17/2022	-0.08	-0.03	-0.01	-0.01	0.00	-0.03	-0.02	-0.01	0.00
3/29/2023	0.04	0.00	0.02	-0.02	0.01	-0.01	-0.01	0.02	-0.01
Cumulative Settlement (2020-2023)	-0.02	-0.02	0.03	-0.04	0.03	-0.08	-0.04	0.00	0.00
Cumulative Settlement Since 10/3/2013	-0.06	-0.06	0.12	-0.06	0.09	-0.11	-0.30	0.01	0.00

Based on review of recent data, GEI notes the following:

- No significant changes in elevation have been observed since the last reporting period or since transitioning to annual monitoring in 2020.
- Cumulative settlement since 2013 is negligible and ranges from 0.00 ft to -0.30 ft across all nine (9) plates.
- Fluctuations in elevation measurements are likely due to human error such as changes between surveying personnel and accuracy of the equipment (generally +/- 0.01 ft).
- Any future minor fluctuations (rise or fall) in plate elevations, indicating potential movement of the overall landfill, do not have an impact on the current site operations.

Based on the March 2023 results and assessment of historic settlement data, GEI recommends to NYCDPR that a request be made to NYSDEC to terminate all future settlement plate monitoring, as long as the former landfill continues to be utilized and maintained in its current condition as a golf course.

If you have any questions, please feel free to contact me at (347) 514–3861.

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
January 7, 2020, letter addressed to NYCDPR from NYSDEC re: Settlement Plate Monitoring – Request to Change the Monitoring Frequency from Quarterly to Annual
Settlement Plate Monitoring Report (Contractors Line and Grade LLC)
Ferry Point Golf Course Settlement Plate Locations (KS Engineers, P.C.)

c: M. Rowland, NYCDPR

K. Zias, NYCDPR

K. McCarty, GEI

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4996 I F: (718) 482-6391
www.dec.ny.gov

January 7, 2020

Marty Rowland, Ph.D., P.E.
Senior Project Manager for Environmental Remediation
New York City Department of Parks and Recreation
Central Project Division, Environmental Unit
Olmstead Center
Flushing Meadows
Corona Park
Flushing, NY 11368

Re: Ferry Point Park Golf Course
Permit No. 2-6006-00014/00013
Settlement Plate Monitoring
Request to Change the Monitoring Frequency from Quarterly to Annual

Dear Mr. Rowland,

New York State Department of Environmental Conservation (Department) staff have reviewed your December 19, 2019 request to modify the Ferry Point Golf Course settlement plate monitoring frequency from quarterly to annual. This request is based on the negligible changes in the settlement plate data from the quarterly reports for the last four years.

After careful review of the settlement plate data from the quarterly reports for the last four years and specific circumstances and history of this site, the Department hereby grants this request to modify the Ferry Point Golf Course settlement plate monitoring frequency from quarterly to annual starting immediately.

If you have any questions you may contact me at 718-482-4996.

Sincerely,

Kenneth B. Brezner

Kenneth B. Brezner, P.E.
Regional Material Management Engineer

ec: J. O'Connell/W. Frank, R2 DMM
K. Zias, NYCDPR
S. Laura, Woodard and Curran

FPP_Settlement_Monitoring_Change_Frequecy_Quaterly_to_Annual.2020-01-07.Letter.docx

FERRY POINT PARK

SETTLEMENT PLATE MONITORING

SETTLEMENT PLATE - 1

DATE	CUMULATIVE TIME (days)	RISER ELEVATION (feet)	SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (inches)
10/30/13		32.96	0.00	0.00	0.00
11/13/13	14	32.95	-0.01	-0.01	-0.12
11/26/13	27	32.96	0.01	0.00	0.00
12/09/13	40	32.95	-0.01	-0.01	-0.12
12/23/13	54	32.96	0.01	0.00	0.00
01/08/14	70	32.94	-0.02	-0.02	-0.24
01/27/14	89	32.96	0.02	0.00	0.00
02/19/14	112	32.95	-0.01	-0.01	-0.12
03/06/14	127	32.95	0.00	-0.01	-0.12
03/19/14	140	32.95	0.00	-0.01	-0.12
04/03/14	156	32.95	0.00	-0.01	-0.12
04/21/14	173	32.96	0.01	0.00	0.00
05/05/14	187	32.96	0.00	0.00	0.00
05/30/14	212	32.95	-0.01	-0.01	-0.12
06/13/14	226	32.96	0.01	0.00	0.00
06/23/14	236	32.96	0.00	0.00	0.00
07/09/14	252	32.96	0.00	0.00	0.00
07/23/14	266	32.96	0.00	0.00	0.00
08/04/14	278	32.96	0.00	0.00	0.00
08/21/14	295	32.96	0.00	0.00	0.00
09/03/14	308	32.96	0.00	0.00	0.00
09/23/14	328	32.96	0.00	0.00	0.00
10/06/14	341	32.96	0.00	0.00	0.00
10/21/14	356	32.96	0.00	0.00	0.00
11/04/14	370	32.96	0.00	0.00	0.00
11/18/14	384	32.95	-0.01	-0.01	-0.12
12/05/14	401	32.95	0.00	-0.01	-0.12
12/19/14	415	32.96	0.01	0.00	0.00
01/09/15	436	32.96	0.00	0.00	0.00
01/23/15	450	32.95	-0.01	-0.01	-0.12
02/12/15	470	32.96	0.01	0.00	0.00
02/27/15	485	32.96	0.00	0.00	0.00
03/13/15	499	32.95	-0.01	-0.01	-0.12
03/27/15	513	32.95	0.00	-0.01	-0.12
04/10/15	527	32.96	0.01	0.00	0.00
04/24/15	541	32.96	0.00	0.00	0.00
06/19/15	597	32.96	0.00	0.00	0.00
07/07/15	615	32.96	0.00	0.00	0.00
07/17/15	625	32.96	0.00	0.00	0.00
07/31/15	639	32.96	0.00	0.00	0.00
08/14/15	653	32.96	0.00	0.00	0.00
08/28/15	667	32.96	0.00	0.00	0.00
09/11/15	681	32.96	0.00	0.00	0.00
09/25/15	695	32.96	0.00	0.00	0.00
10/09/15	709	32.96	0.00	0.00	0.00
10/23/15	723	32.95	-0.01	-0.01	-0.12
11/06/15	737	32.95	0.00	-0.01	-0.12
11/20/15	751	32.95	0.00	-0.01	-0.12
12/04/15	765	32.95	0.00	-0.01	-0.12
12/18/15	779	32.95	0.00	-0.01	-0.12
01/07/16	799	32.95	0.00	-0.01	-0.12
01/22/16	814	32.95	0.00	-0.01	-0.12
02/08/16	831	32.94	-0.01	-0.02	-0.24
03/04/16	856	32.95	0.01	-0.01	-0.12
03/18/16	870	32.95	0.00	-0.01	-0.12
04/01/16	884	32.94	-0.01	-0.02	-0.24
04/15/16	898	32.95	0.01	-0.01	-0.12
04/29/16	912	32.95	0.00	-0.01	-0.12
05/13/16	926	32.95	0.00	-0.01	-0.12
05/27/16	940	32.95	0.00	-0.01	-0.12
09/08/16	1044	32.95	0.00	-0.01	-0.12
01/12/17	1170	32.94	-0.01	-0.02	-0.24
03/23/17	1240	32.94	0.00	-0.02	-0.24
06/17/17	1326	32.95	0.01	-0.01	-0.12
09/19/17	1420	32.97	0.02	0.01	0.12
03/12/18	1594	32.94	-0.03	-0.02	-0.24
03/28/18	1610	32.94	0.00	-0.01	-0.12
06/15/18	1689	32.94	0.00	-0.01	-0.12
09/19/18	1785	32.94	0.00	-0.01	-0.12
01/10/19	1898	32.92	-0.02	-0.04	-0.48
03/19/19	1966	32.94	0.02	-0.01	-0.12
07/15/19	2084	32.94	0.00	-0.01	-0.12
11/19/19	2211	32.96	0.00	0.02	0.24
03/05/20	2318	32.92	-0.04	-0.04	-0.48
04/08/21	2717	32.94	0.02	-0.02	-0.24
03/17/22	3060	32.86	-0.08	-0.10	-1.20
03/29/23	3423	32.90	0.04	-0.06	-0.72

STATE OF NEW YORK
STEVEN J WILLARD
050054
LICENSED LAND SURVEYOR

FERRY POINT PARK

SETTLEMENT PLATE MONITORING

SETTLEMENT PLATE - 2

DATE	CUMULATIVE TIME (days)	RISER ELEVATION (feet)	SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (inches)
10/30/13		46.27	0.00	0.00	0.00
11/13/13	14	46.27	0.00	0.00	0.00
11/26/13	27	46.26	-0.01	-0.01	-0.12
12/09/13	40	46.26	0.00	-0.01	-0.12
12/23/13	54	46.27	0.01	0.00	0.00
01/08/14	70	46.27	0.00	0.00	0.00
01/27/14	89	46.27	0.00	0.00	0.00
02/19/14	112	46.27	0.00	0.00	0.00
03/06/14	127	46.26	-0.01	-0.01	-0.12
03/19/14	140	46.27	0.01	0.00	0.00
04/03/14	156	46.27	0.00	0.00	0.00
04/21/14	173	46.26	-0.01	-0.01	-0.12
05/05/14	187	46.27	0.01	0.00	0.00
05/30/14	212	46.26	-0.01	-0.01	-0.12
06/13/14	226	46.25	-0.01	-0.02	-0.24
06/23/14	236	46.25	0.00	-0.02	-0.24
07/09/14	252	46.26	0.01	-0.01	-0.12
07/23/14	266	46.25	-0.01	-0.02	-0.24
08/04/14	278	46.25	0.00	-0.02	-0.24
08/21/14	295	46.24	-0.01	-0.03	-0.36
09/03/14	308	46.25	0.01	-0.02	-0.24
09/23/14	328	46.25	0.00	-0.02	-0.24
10/06/14	341	46.25	0.00	-0.02	-0.24
10/21/14	356	46.25	0.00	-0.02	-0.24
11/04/14	370	46.25	0.00	-0.02	-0.24
11/18/14	384	46.26	0.01	-0.01	-0.12
12/05/14	401	46.26	0.00	-0.01	-0.12
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03/27/15	513	46.25	0.00	-0.02	-0.24
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07/07/15	615	46.24	0.00	-0.03	-0.36
07/17/15	625	46.25	0.01	-0.02	-0.24
07/31/15	639	46.25	0.00	-0.02	-0.24
08/14/15	653	46.25	0.00	-0.02	-0.24
08/28/15	667	46.25	0.00	-0.02	-0.24
09/11/15	681	46.25	0.00	-0.02	-0.24
09/25/15	695	46.25	0.00	-0.02	-0.24
10/09/15	709	46.24	-0.01	-0.03	-0.36
10/23/15	723	46.24	0.00	-0.03	-0.36
11/06/15	737	46.24	0.00	-0.03	-0.36
11/20/15	751	46.24	0.00	-0.03	-0.36
12/04/15	765	46.24	0.00	-0.03	-0.36
12/18/15	779	46.24	0.00	-0.03	-0.36
01/07/16	799	46.24	0.00	-0.03	-0.36
01/22/16	814	46.25	0.01	-0.02	-0.24
02/08/16	831	46.24	-0.01	-0.03	-0.36
03/04/16	856	46.24	0.00	-0.03	-0.36
03/18/16	870	46.24	0.00	-0.03	-0.36
04/01/16	884	46.24	0.00	-0.03	-0.36
04/15/16	898	46.24	0.00	-0.03	-0.36
04/29/16	912	46.24	0.00	-0.03	-0.36
05/13/16	926	46.24	0.00	-0.03	-0.36
05/27/16	940	46.24	0.00	-0.03	-0.36
09/08/16	1044	46.24	0.00	-0.03	-0.36
01/12/17	1170	46.24	0.00	-0.03	-0.36
03/23/17	1240	46.24	0.00	-0.03	-0.36
06/17/17	1326	46.24	0.00	-0.03	-0.36
09/19/17	1420	46.23	-0.01	-0.04	-0.48
03/12/18	1594	46.24	0.01	-0.03	-0.36
03/28/18	1610	46.24	0.00	-0.03	-0.36
06/15/18	1689	46.25	0.01	-0.02	-0.24
09/19/18	1785	46.22	-0.03	-0.05	-0.60
01/10/19	1898	46.23	0.01	-0.04	-0.48
03/19/19	1966	46.23	0.00	-0.04	-0.48
07/15/19	2084	46.23	0.00	-0.04	-0.48
11/19/19	2211	46.24	-0.03	-0.03	-0.36
03/05/20	2318	46.23	-0.01	-0.04	-0.48
04/08/21	2717	46.24	0.01	-0.03	-0.36
03/17/22	3060	46.21	-0.03	-0.06	-0.72
03/29/23	3423	46.21	0.00	-0.06	-0.72

STATE OF NEW YORK
STEVEN J. WILLARD
050054
LICENSED LAND SURVEYOR

FERRY POINT PARK

SETTLEMENT PLATE MONITORING

SETTLEMENT PLATE - 3

DATE	CUMULATIVE TIME (days)	RISER ELEVATION (feet)	SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (inches)
10/30/13		29.65	0.00	0.00	0.00
11/13/13	14	29.65	0.00	0.00	0.00
11/26/13	27	29.65	0.00	0.00	0.00
12/09/13	40	29.66	0.01	0.01	0.12
12/23/13	54	29.65	-0.01	0.00	0.00
01/08/14	70	29.67	0.02	0.02	0.24
01/27/14	89	29.66	-0.01	0.01	0.12
02/19/14	112	29.66	0.00	0.01	0.12
03/06/14	127	29.67	0.01	0.02	0.24
03/19/14	140	29.66	-0.01	0.01	0.12
04/03/14	156	29.66	0.00	0.01	0.12
04/21/14	173	29.67	0.01	0.02	0.24
05/05/14	187	29.67	0.00	0.02	0.24
05/30/14	212	29.66	-0.01	0.01	0.12
06/13/14	226	29.67	0.01	0.02	0.24
06/23/14	236	29.67	0.00	0.02	0.24
07/09/14	252	29.66	-0.01	0.01	0.12
07/23/14	266	29.67	0.01	0.02	0.24
08/04/14	278	29.67	0.00	0.02	0.24
08/21/14	295	29.67	0.00	0.02	0.24
09/03/14	308	29.67	0.00	0.02	0.24
09/23/14	328	29.67	0.00	0.02	0.24
10/06/14	341	29.67	0.00	0.02	0.24
10/21/14	356	29.68	0.01	0.03	0.36
11/04/14	370	29.68	0.00	0.03	0.36
11/18/14	384	29.67	-0.01	0.02	0.24
12/05/14	401	29.68	0.01	0.03	0.36
12/19/14	415	29.67	-0.01	0.02	0.24
01/09/15	436	29.68	0.01	0.03	0.36
01/23/15	450	29.67	-0.01	0.02	0.24
02/12/15	470	29.67	0.00	0.02	0.24
02/27/15	485	29.67	0.00	0.02	0.24
03/13/15	499	29.67	0.00	0.02	0.24
03/27/15	513	29.68	0.01	0.03	0.36
04/10/15	527	29.68	0.00	0.03	0.36
04/24/15	541	29.68	0.00	0.03	0.36
06/19/15	597	29.68	0.00	0.03	0.36
07/07/15	615	29.68	0.00	0.03	0.36
07/17/15	625	29.68	0.00	0.03	0.36
07/31/15	639	29.68	0.00	0.03	0.36
08/14/15	653	29.68	0.00	0.03	0.36
08/28/15	667	29.68	0.00	0.03	0.36
09/11/15	681	29.68	0.00	0.03	0.36
09/25/15	695	29.68	0.00	0.03	0.36
10/09/15	709	29.69	0.01	0.04	0.48
10/23/15	723	29.70	0.01	0.05	0.60
11/06/15	737	29.69	-0.01	0.04	0.48
11/20/15	751	29.69	0.00	0.04	0.48
12/04/15	765	29.70	0.01	0.05	0.60
12/18/15	779	29.70	0.00	0.05	0.60
01/07/16	799	29.70	0.00	0.05	0.60
01/22/16	814	29.70	0.00	0.05	0.60
02/08/16	831	29.70	0.00	0.05	0.60
03/04/16	856	29.69	-0.01	0.04	0.48
03/18/16	870	29.69	0.00	0.04	0.48
04/01/16	884	29.70	0.01	0.05	0.60
04/15/16	898	29.70	0.00	0.05	0.60
04/29/16	912	29.71	0.01	0.06	0.72
05/13/16	926	29.70	-0.01	0.05	0.60
05/27/16	940	29.70	0.00	0.05	0.60
09/08/16	1044	29.70	0.00	0.05	0.60
01/12/17	1170	29.71	0.01	0.06	[illegible]
03/23/17	1240	29.70	-0.01	0.05	[illegible]
06/17/17	1326	29.71	0.01	0.06	0.72
09/20/17	1420	29.72	0.01	0.07	0.84
03/12/18	1594	29.72	0.00	0.07	0.84
03/28/18	1610	29.72	0.00	0.07	0.84
06/15/18	1689	29.72	0.00	0.07	0.84
09/19/18	1785	29.72	0.00	0.07	0.84
01/10/19	1898	29.73	0.01	0.08	0.96
03/19/19	1966	29.73	0.00	0.08	0.96
07/15/19	2084	29.72	-0.01	0.07	0.84
11/19/19	2211	29.74	0.02	0.09	1.08
03/05/20	2318	29.74	0.00	0.09	1.08
04/08/21	2717	29.76	0.02	0.11	1.32
03/17/22	3060	29.75	-0.01	0.10	1.20
03/29/23	3437	29.77	0.02	0.12	1.44

STATE OF NEW YORK
STEVEN J. WILLARD
050054
LICENSED LAND SURVEYOR

FERRY POINT PARK

SETTLEMENT PLATE MONITORING

SETTLEMENT PLATE - 4

DATE	CUMULATIVE TIME (days)	RISER ELEVATION (feet)	SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (inches)
10/30/13		47.56	0.00	0.00	0.00
11/13/13	14	47.56	0.00	0.00	0.00
11/26/13	27	47.56	0.00	0.00	0.00
12/09/13	40	47.56	0.00	0.00	0.00
12/23/13	54	47.56	0.00	0.00	0.00
01/08/14	70	47.55	-0.01	-0.01	-0.12
01/27/14	89	47.55	0.00	-0.01	-0.12
02/19/14	112	47.55	0.00	-0.01	-0.12
03/06/14	127	47.55	0.00	-0.01	-0.12
03/19/14	140	47.55	0.00	-0.01	-0.12
04/03/14	156	47.56	0.01	0.00	0.00
04/21/14	173	47.55	-0.01	-0.01	-0.12
05/05/14	187	47.55	0.00	-0.01	-0.12
05/30/14	212	47.55	0.00	-0.01	-0.12
06/13/14	226	47.55	0.00	-0.01	-0.12
06/23/14	236	47.55	0.00	-0.01	-0.12
07/09/14	252	47.55	0.00	-0.01	-0.12
07/23/14	266	47.53	-0.02	-0.03	-0.36
08/04/14	278	47.53	0.00	-0.03	-0.36
08/21/14	295	47.54	0.01	-0.02	-0.24
09/03/14	308	47.54	0.00	-0.02	-0.24
09/23/14	328	47.53	-0.01	-0.03	-0.36
10/06/14	341	47.54	0.01	-0.02	-0.24
10/21/14	356	47.54	0.00	-0.02	-0.24
11/04/14	370	47.54	0.00	-0.02	-0.24
11/18/14	384	47.54	0.00	-0.02	-0.24
12/05/14	401	47.53	-0.01	-0.03	-0.36
12/19/14	415	47.53	0.00	-0.03	-0.36
01/09/15	436	47.54	0.01	-0.02	-0.24
01/23/15	450	47.54	0.00	-0.02	-0.24
02/12/15	470	47.53	-0.01	-0.03	-0.36
02/27/15	485	47.54	0.01	-0.02	-0.24
03/13/15	499	47.54	0.00	-0.02	-0.24
03/27/15	513	47.55	0.01	-0.01	-0.12
04/10/15	527	47.54	-0.01	-0.02	-0.24
04/24/15	541	47.54	0.00	-0.02	-0.24
06/19/15	597	47.53	-0.01	-0.03	-0.36
07/07/15	615	47.53	0.00	-0.03	-0.36
07/17/15	625	47.54	0.01	-0.02	-0.24
07/31/15	639	47.52	-0.02	-0.04	-0.48
08/14/15	653	47.52	0.00	-0.04	-0.48
08/28/15	667	47.52	0.00	-0.04	-0.48
09/11/15	681	47.52	0.00	-0.04	-0.48
09/25/15	695	47.52	0.00	-0.04	-0.48
10/09/15	709	47.52	0.00	-0.04	-0.48
10/23/15	723	47.51	-0.01	-0.05	-0.60
11/06/15	737	47.53	0.02	-0.03	-0.36
11/20/15	751	47.55	0.02	-0.01	-0.12
12/04/15	765	47.55	0.00	-0.01	-0.12
12/18/15	779	47.55	0.00	-0.01	-0.12
01/07/16	799	47.55	0.00	-0.01	-0.12
01/22/16	814	47.54	-0.01	-0.02	-0.24
02/08/16	831	47.56	0.02	0.00	0.00
03/04/16	856	47.57	0.01	0.01	0.12
03/18/16	870	47.56	0.00	0.00	0.00
04/01/16	884	47.56	0.00	0.00	0.00
04/15/16	898	47.57	0.01	0.01	0.12
04/29/16	912	47.56	-0.01	0.00	0.00
05/13/16	926	47.56	0.00	0.00	0.00
05/27/16	940	47.57	0.01	0.01	0.12
09/08/16	1044	47.56	-0.01	0.00	0.00
01/12/17	1170	47.58	0.01	0.02	0.24
03/23/17	1240	47.58	0.00	0.02	0.24
06/17/17	1326	47.56	-0.02	0.00	0.00
09/19/17	1420	47.54	-0.02	-0.02	-0.24
03/12/18	1594	47.54	0.00	-0.02	-0.24
03/28/18	1610	47.54	0.00	-0.02	-0.24
06/15/18	1689	47.52	-0.02	-0.04	-0.48
09/19/18	1785	47.51	-0.01	-0.05	-0.60
01/10/19	1898	47.51	0.00	-0.05	-0.60
03/19/19	1966	47.53	0.02	-0.03	-0.36
07/15/19	2084	47.52	-0.01	-0.04	-0.48
11/19/19	2211	47.54	0.02	-0.02	-0.24
03/05/20	2318	47.55	0.01	-0.01	-0.12
04/08/21	2717	47.53	-0.02	-0.03	-0.36
03/17/22	3060	47.52	-0.01	-0.04	-0.48
03/29/23	3437	47.50	-0.02	-0.06	-0.72

STATE OF NEW YORK
STEVEN J WILLARD
050054
LICENSED LAND SURVEYOR

FERRY POINT PARK

SETTLEMENT PLATE MONITORING

SETTLEMENT PLATE - 5

DATE	CUMULATIVE TIME (days)	RISER ELEVATION (feet)	SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (inches)
10/30/13		34.78	0.00	0.00	0.00
11/13/13	14	34.78	0.00	0.00	0.00
11/26/13	27	34.77	-0.01	-0.01	-0.12
12/09/13	40	34.77	0.00	-0.01	-0.12
12/23/13	54	34.78	0.01	0.00	0.00
01/08/14	70	34.77	-0.01	-0.01	-0.12
01/27/14	89	34.78	0.01	0.00	0.00
02/19/14	112	34.78	0.00	0.00	0.00
03/06/14	127	34.78	0.00	0.00	0.00
03/19/14	140	34.78	0.00	0.00	0.00
04/03/14	156	34.77	-0.01	-0.01	-0.12
04/21/14	173	34.78	0.01	0.00	0.00
05/05/14	187	34.78	0.00	0.00	0.00
05/30/14	212	34.78	0.00	0.00	0.00
06/13/14	226	34.78	0.00	0.00	0.00
06/23/14	236	34.78	0.00	0.00	0.00
07/09/14	252	34.78	0.00	0.00	0.00
07/23/14	266	34.77	-0.01	-0.01	-0.12
08/04/14	278	34.77	0.00	-0.01	-0.12
08/21/14	295	34.77	0.00	-0.01	-0.12
09/03/14	308	34.78	0.01	0.00	0.00
09/23/14	328	34.77	-0.01	-0.01	-0.12
10/06/14	341	34.77	0.00	-0.01	-0.12
10/21/14	356	34.77	0.00	-0.01	-0.12
11/04/14	370	34.78	0.01	0.00	0.00
11/18/14	384	34.77	-0.01	-0.01	-0.12
12/05/14	401	34.78	0.01	0.00	0.00
12/19/14	415	34.77	-0.01	-0.01	-0.12
01/09/15	436	34.78	0.01	0.00	0.00
01/23/15	450	34.78	0.00	0.00	0.00
02/12/15	470	34.78	0.00	0.00	0.00
02/27/15	485	34.78	0.00	0.00	0.00
03/13/15	499	34.79	0.01	0.01	0.12
03/27/15	513	34.78	-0.01	0.00	0.00
04/10/15	527	34.78	0.00	0.00	0.00
04/24/15	541	34.79	0.01	0.01	0.12
06/19/15	597	34.78	-0.01	0.00	0.00
07/07/15	615	34.78	0.00	0.00	0.00
07/17/15	625	34.78	0.00	0.00	0.00
07/31/15	639	34.78	0.00	0.00	0.00
08/14/15	653	34.78	0.00	0.00	0.00
08/28/15	667	34.78	0.00	0.00	0.00
09/11/15	681	34.78	0.00	0.00	0.00
09/25/15	695	34.79*	0.01	0.01	0.12
10/09/15	709	34.80	0.01	0.02	0.24
10/23/15	723	34.81	0.01	0.03	0.36
11/06/15	737	34.81	0.00	0.03	0.36
11/20/15	751	34.80	-0.01	0.02	0.24
12/04/15	765	34.79	-0.01	0.01	0.12
12/18/15	779	34.79	0.00	0.01	0.12
01/07/16	799	34.79	0.00	0.01	0.12
01/22/16	814	34.80	0.01	0.02	0.24
02/08/16	831	34.80	0.00	0.02	0.24
03/04/16	856	34.78	-0.02	0.00	0.00
03/18/16	870	34.80	0.02	0.02	0.24
04/01/16	884	34.78	-0.02	0.00	0.00
04/15/16	898	34.80	0.02	0.02	0.24
04/29/16	912	34.79	-0.01	0.01	0.12
05/13/16	926	34.79	0.00	0.01	0.12
05/27/16	940	34.82	0.03	0.04	0.48
09/08/16	1044	34.80	-0.02	0.02	0.24
01/12/17	1170	34.80	-0.02	0.02	0.24
03/23/17	1240	34.82	0.02	0.04	0.48
06/17/17	1326	34.82	0.00	0.04	0.48
09/19/17	1420	34.82	0.00	0.04	0.48
03/12/18	1594	34.82	0.00	0.04	0.48
03/28/18	1610	34.82	0.00	0.04	0.48
06/15/18	1689	34.83	0.01	0.05	0.60
09/19/18	1785	34.83	0.00	0.05	0.60
01/10/19	1898	34.84	0.01	0.06	0.72
03/19/19	1966	34.83	-0.01	0.05	0.60
07/15/19	2084	34.85	0.02	0.07	0.84
11/19/19	2211	34.86	0.01	0.08	0.96
03/05/20	2318	34.84	-0.02	0.06	0.72
04/08/21	2717	34.86	0.02	0.08	0.96
03/17/22	3060	34.86	0.00	0.08	0.96
03/29/23	3437	34.87	0.01	0.09	1.08

STATE OF NEW YORK
STEVEN J. WILLARD
050054
LICENSED LAND SURVEYOR

FERRY POINT PARK

SETTLEMENT PLATE MONITORING

SETTLEMENT PLATE - 6

DATE	CUMULATIVE TIME (days)	RISER ELEVATION (feet)	SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (inches)
10/30/13		32.06	0.00	0.00	0.00
11/13/13	14	32.06	0.00	0.00	0.00
11/26/13	27	32.05	-0.01	-0.01	-0.12
12/09/13	40	32.05	0.00	-0.01	-0.12
12/23/13	54	32.05	0.00	-0.01	-0.12
01/08/14	70	32.05	0.00	-0.01	-0.12
01/27/14	89	32.05	0.00	-0.01	-0.12
02/19/14	112	32.05	0.00	-0.01	-0.12
03/06/14	127	32.05	0.00	-0.01	-0.12
03/19/14	140	32.04	-0.01	-0.02	-0.24
04/03/14	156	32.04	0.00	-0.02	-0.24
04/21/14	173	32.04	0.00	-0.02	-0.24
05/05/14	187	32.05	0.01	-0.01	-0.12
05/30/14	212	32.04	-0.01	-0.02	-0.24
06/13/14	226	32.04	0.00	-0.02	-0.24
06/23/14	236	32.04	0.00	-0.02	-0.24
07/09/14	252	32.03	-0.01	-0.03	-0.36
07/23/14	266	32.04	0.01	-0.02	-0.24
08/04/14	278	32.04	0.00	-0.02	-0.24
08/21/14	295	32.04	0.00	-0.02	-0.24
09/03/14	308	32.04	0.00	-0.02	-0.24
09/23/14	328	32.04	0.00	-0.02	-0.24
10/06/14	341	32.04	0.00	-0.02	-0.24
10/21/14	356	32.03	-0.01	-0.03	-0.36
11/04/14	370	32.03	0.00	-0.03	-0.36
11/18/14	384	32.03	0.00	-0.03	-0.36
12/05/14	401	32.03	0.00	-0.03	-0.36
12/19/14	415	32.03	0.00	-0.03	-0.36
01/09/15	436	32.04	0.01	-0.02	-0.24
01/23/15	450	32.03	-0.01	-0.03	-0.36
02/12/15	470	n/a	n/a	n/a	n/a
02/27/15	485	n/a	n/a	n/a	n/a
03/13/15	499	32.03	0.00	-0.03	-0.36
03/27/15	513	32.03	0.00	-0.03	-0.36
04/10/15	527	32.03	0.00	-0.03	-0.36
04/24/15	541	32.03	0.00	-0.03	-0.36
06/19/15	597	32.03	0.00	-0.03	-0.36
07/07/15	615	32.04	0.01	-0.02	-0.24
07/17/15	625	32.04	0.00	-0.02	-0.24
07/31/15	639	32.02	-0.02	-0.04	-0.48
08/14/15	653	32.02	0.00	-0.04	-0.48
08/28/15	667	32.02	0.00	-0.04	-0.48
09/11/15	681	32.02	0.00	-0.04	-0.48
09/25/15	695	32.02	0.00	-0.04	-0.48
10/09/15	709	32.02	0.00	-0.04	-0.48
10/23/15	723	32.02	0.00	-0.04	-0.48
11/06/15	737	32.02	0.00	-0.04	-0.48
11/20/15	751	32.02	0.00	-0.04	-0.48
12/04/15	765	32.03	0.01	-0.03	-0.36
12/18/15	779	32.03	0.00	-0.03	-0.36
01/07/16	799	32.03	0.00	-0.03	-0.36
01/22/16	814	32.04	0.01	-0.02	-0.24
02/08/16	831	32.03	-0.01	-0.03	-0.36
03/04/16	856	32.03	0.00	-0.03	-0.36
03/18/16	870	32.01	-0.02	-0.05	-0.60
04/01/16	884	31.99	-0.02	-0.07	-0.84
04/15/16	898	32.02	0.03	-0.04	-0.48
04/29/16	912	32.01	-0.01	-0.05	-0.60
05/13/16	926	32.02	0.01	-0.04	-0.48
05/27/16	940	32.01	-0.01	-0.05	-0.60
09/08/16	1044	32.01	0.00	-0.05	-0.60
01/12/17	1170	32.01	0.00	-0.05	-0.60
03/23/17	1240	32.00	-0.01	-0.06	-0.72
06/17/17	1326	32.00	0.00	-0.06	-0.72
09/19/17	1420	32.00	0.00	-0.06	-0.72
03/12/18	1594	32.01	0.01	-0.05	-0.60
03/28/18	1610	32.01	0.00	-0.05	-0.60
06/15/18	1689	32.00	-0.01	-0.06	-0.72
09/19/18	1785	31.99	-0.01	-0.07	-0.84
01/10/19	1898	31.98	-0.01	-0.08	-0.96
03/19/19	1966	31.95	-0.03	-0.11	-1.32
07/15/19	2084	31.98	0.03	-0.08	-0.96
11/19/19	2211	31.98	0.00	-0.08	-0.96
03/05/20	2318	31.87	-0.11	-0.19	-2.28
04/08/21	2717	31.99	0.12	-0.07	-0.84
03/17/22	3060	31.96	-0.03	-0.10	-1.20
03/29/23	3437	31.95	-0.01	-0.11	-1.32

STATE OF NEW YORK
STEVEN J. WILLARD
050054
LICENSED LAND SURVEYOR

FERRY POINT PARK

SETTLEMENT PLATE MONITORING

SETTLEMENT PLATE - 7

DATE	CUMULATIVE TIME (days)	RISER ELEVATION (feet)	SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (inches)
10/30/13		36.81	0.00	0.00	0.00
11/13/13	14	36.81	0.00	0.00	0.00
11/26/13	27	36.80	-0.01	-0.01	-0.12
12/09/13	40	36.80	0.00	-0.01	-0.12
12/23/13	54	36.80	0.00	-0.01	-0.12
01/08/14	70	36.79	-0.01	-0.02	-0.24
01/27/14	89	36.79	0.00	-0.02	-0.24
02/19/14	112	36.79	0.00	-0.02	-0.24
03/06/14	127	36.78	-0.01	-0.03	-0.36
03/19/14	140	36.77	-0.01	-0.04	-0.48
04/03/14	156	36.77	0.00	-0.04	-0.48
04/21/14	173	36.77	0.00	-0.04	-0.48
05/05/14	187	36.76	-0.01	-0.05	-0.60
05/30/14	212	36.75	-0.01	-0.06	-0.72
06/13/14	226	36.76	0.01	-0.05	-0.60
06/23/14	236	36.76	0.00	-0.05	-0.60
07/09/14	252	36.75	-0.01	-0.06	-0.72
07/23/14	266	36.74	-0.01	-0.07	-0.84
08/04/14	278	36.73	-0.01	-0.08	-0.96
08/21/14	295	36.74	0.01	-0.07	-0.84
09/03/14	308	36.74	0.00	-0.07	-0.84
09/23/14	328	36.74	0.00	-0.07	-0.84
10/06/14	341	36.74	0.00	-0.07	-0.84
10/21/14	356	36.73	-0.01	-0.08	-0.96
11/04/14	370	36.73	0.00	-0.08	-0.96
11/18/14	384	36.72	-0.01	-0.09	-1.08
12/05/14	401	36.71	-0.01	-0.10	-1.20
12/19/14	415	36.71	0.00	-0.10	-1.20
01/09/15	436	36.71	0.00	-0.10	-1.20
01/23/15	450	36.70	-0.01	-0.11	-1.32
02/12/15	470	36.70	0.00	-0.11	-1.32
02/27/15	485	36.70	0.00	-0.11	-1.32
03/13/15	499	36.70	0.00	-0.11	-1.32
03/27/15	513	36.70	0.00	-0.11	-1.32
04/10/15	527	36.70	0.00	-0.11	-1.32
04/24/15	541	36.69	-0.01	-0.12	-1.44
06/19/15	597	36.69	0.00	-0.12	-1.44
07/07/15	615	36.69	0.00	-0.12	-1.44
07/17/15	625	36.69	0.00	-0.12	-1.44
07/31/15	639	36.67	-0.02	-0.14	-1.68
08/14/15	653	36.67	0.00	-0.14	-1.68
08/28/15	667	36.67	0.00	-0.14	-1.68
09/11/15	681	36.67	0.00	-0.14	-1.68
09/25/15	695	36.67	0.00	-0.14	-1.68
10/09/15	709	36.67	0.00	-0.14	-1.68
10/23/15	723	36.67	0.00	-0.14	-1.68
11/06/15	737	36.66	-0.01	-0.15	-1.80
11/20/15	751	36.66	0.00	-0.15	-1.80
12/04/15	765	36.67	0.01	-0.14	-1.68
12/18/15	779	36.67	0.00	-0.14	-1.68
01/07/16	799	36.67	0.00	-0.14	-1.68
01/22/16	814	36.66	-0.01	-0.15	-1.80
02/08/16	831	36.67	0.01	-0.14	-1.68
03/04/16	856	36.67	0.00	-0.14	-1.68
03/18/16	870	36.67	0.00	-0.14	-1.68
04/01/16	884	36.66	-0.01	-0.15	-1.80
04/15/16	898	36.66	0.00	-0.15	-1.80
04/29/16	912	36.67	0.01	-0.14	-1.68
05/13/16	926	36.66	-0.01	-0.15	-1.80
05/27/16	940	36.66	0.00	-0.15	-1.80
09/08/16	1044	36.65	-0.01	-0.16	-1.92
01/12/17	1170	36.64	-0.01	-0.17	-2.04
03/23/17	1240	36.64	0.00	-0.17	-2.04
06/17/17	1326	36.62	-0.02	-0.19	-2.28
09/19/17	1420	36.62	0.00	-0.19	-2.28
03/12/18	1594	36.61	-0.01	-0.20	-2.40
03/28/18	1610	36.61	0.00	-0.20	-2.40
06/15/18	1689	36.60	-0.01	-0.21	-2.52
09/19/18	1785	36.59	-0.01	-0.22	-2.64
01/10/19	1898	36.58	-0.01	-0.23	-2.76
03/19/19	1966	36.58	0.00	-0.23	-2.76
07/15/19	2084	36.58	0.00	-0.23	-2.76
11/19/19	2211	36.57	-0.01	-0.24	-2.88
03/05/20	2318	36.55	-0.02	-0.26	-3.12
04/08/21	2717	36.54	-0.01	-0.27	-3.24
03/17/22	3060	36.52	-0.02	-0.29	-3.48
03/29/23	3437	36.51	-0.01	-0.30	-3.60

STATE OF NEW YORK
STEVEN J. WILLARD
050054
LICENSED LAND SURVEYOR

FERRY POINT PARK

SETTLEMENT PLATE MONITORING

SETTLEMENT PLATE - 8

DATE	CUMULATIVE TIME (days)	RISER ELEVATION (feet)	SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (inches)
10/30/13		29.41	0.00	0.00	0.00
11/13/13	14	29.41	0.00	0.00	0.00
11/26/13	27	29.41	0.00	0.00	0.00
12/09/13	40	29.40	-0.01	-0.01	-0.12
12/23/13	54	29.41	0.01	0.00	0.00
01/08/14	70	29.41	0.00	0.00	0.00
01/27/14	89	29.41	0.00	0.00	0.00
02/19/14	112	29.41	0.00	0.00	0.00
03/06/14	127	29.41	0.00	0.00	0.00
03/19/14	140	29.40	-0.01	-0.01	-0.12
04/03/14	156	29.40	0.00	-0.01	-0.12
04/21/14	173	29.41	0.01	0.00	0.00
05/05/14	187	29.41	0.00	0.00	0.00
05/30/14	212	29.41	0.00	0.00	0.00
06/13/14	226	29.42	0.01	0.01	0.12
06/23/14	236	29.42	0.00	0.01	0.12
07/09/14	252	29.40	-0.02	-0.01	-0.12
07/23/14	266	29.41	0.01	0.00	0.00
08/04/14	278	29.42	0.01	0.01	0.12
08/21/14	295	29.41	-0.01	0.00	0.00
09/03/14	308	29.41	0.00	0.00	0.00
09/23/14	328	29.41	0.00	0.00	0.00
10/06/14	341	29.41	0.00	0.00	0.00
10/21/14	356	29.41	0.00	0.00	0.00
11/04/14	370	29.42	0.01	0.01	0.12
11/18/14	384	29.41	-0.01	0.00	0.00
12/05/14	401	29.42	0.01	0.01	0.12
12/19/14	415	29.41	-0.01	0.00	0.00
01/09/15	436	29.41	0.00	0.00	0.00
01/23/15	450	29.41	0.00	0.00	0.00
02/12/15	470	29.41	0.00	0.00	0.00
02/27/15	485	29.41	0.00	0.00	0.00
03/13/15	499	29.41	0.00	0.00	0.00
03/27/15	513	29.41	0.00	0.00	0.00
04/10/15	527	29.42	0.01	0.01	0.12
04/24/15	541	29.41	-0.01	0.00	0.00
06/19/15	597	29.42	0.01	0.01	0.12
07/07/15	615	29.42	0.00	0.01	0.12
07/17/15	625	29.41	-0.01	0.00	0.00
07/31/15	639	29.41	0.00	0.00	0.00
08/14/15	653	29.41	0.00	0.00	0.00
08/28/15	667	29.41	0.00	0.00	0.00
09/11/15	681	29.41	0.00	0.00	0.00
09/25/15	695	29.41	0.00	0.00	0.00
10/09/15	709	29.42	0.01	0.01	0.12
10/23/15	723	29.42	0.00	0.01	0.12
11/06/15	737	29.42	0.00	0.01	0.12
11/20/15	751	29.42	0.00	0.01	0.12
12/04/15	765	29.42	0.00	0.01	0.12
12/18/15	779	29.42	0.00	0.01	0.12
01/07/16	799	29.42	0.00	0.01	0.12
01/22/16	814	29.41	-0.01	0.00	0.00
02/08/16	831	29.42	0.01	0.01	0.12
03/04/16	856	29.41	-0.01	0.00	0.00
03/18/16	870	29.42	0.01	0.01	0.12
04/01/16	884	29.42	0.00	0.01	0.12
04/15/16	898	29.42	0.00	0.01	0.12
04/29/16	912	29.42	0.00	0.01	0.12
05/13/16	926	29.41	-0.01	0.00	0.00
05/27/16	940	29.42	0.01	0.01	0.12
09/08/16	1044	29.42	0.00	0.01	0.12
01/12/17	1170	29.42	0.00	0.01	0.12
03/23/17	1240	29.42	0.00	0.01	0.12
06/17/17	1326	29.41	-0.01	0.00	0.00
09/19/17	1420	29.42	0.01	0.01	0.12
03/12/18	1594	29.41	-0.01	0.00	0.00
03/28/18	1610	29.41	0.00	0.00	0.00
06/15/18	1689	29.41	0.00	0.00	0.00
09/19/18	1785	29.42	0.01	0.01	0.12
01/10/19	1898	29.42	0.00	0.01	0.12
03/19/19	1966	29.41	-0.01	0.00	0.00
07/15/19	2084	29.41	0.00	0.00	0.00
11/19/19	2211	29.41	0.00	0.00	0.00
03/05/20	2318	29.42	0.01	0.01	0.12
04/08/21	2717	29.41	-0.01	0.00	0.00
03/17/22	3060	29.40	-0.01	-0.01	-0.12
03/29/23	3437	29.42	0.02	0.01	0.12

STATE OF NEW YORK
STEVEN J. WILLARD
050054
LICENSED LAND SURVEYOR

FERRY POINT PARK

SETTLEMENT PLATE MONITORING

SETTLEMENT PLATE - 9

DATE	CUMULATIVE TIME (days)	RISER ELEVATION (feet)	SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (inches)
10/30/13		37.63	0.00	0.00	0.00
11/13/13	14	37.63	0.00	0.00	0.00
11/26/13	27	37.63	0.00	0.00	0.00
12/09/13	40	37.64	0.01	0.01	0.12
12/23/13	54	37.63	-0.01	0.00	0.00
01/08/14	70	37.64	0.01	0.01	0.12
01/27/14	89	37.63	-0.01	0.00	0.00
02/19/14	112	37.64	0.01	0.01	0.12
03/06/14	127	37.64	0.00	0.01	0.12
03/19/14	140	37.65	0.01	0.02	0.24
04/03/14	156	37.64	-0.01	0.01	0.12
04/21/14	173	37.64	0.00	0.01	0.12
05/05/14	187	37.65	0.01	0.02	0.24
05/30/14	212	37.63	-0.02	0.00	0.00
06/13/14	226	37.64	0.01	0.01	0.12
06/23/14	236	37.64	0.00	0.01	0.12
07/09/14	252	37.62	-0.02	-0.01	-0.12
07/23/14	266	37.64	0.02	0.01	0.12
08/04/14	278	37.63	-0.01	0.00	0.00
08/21/14	295	37.63	0.00	0.00	0.00
09/03/14	308	37.64	0.01	0.01	0.12
09/23/14	328	37.63	-0.01	0.00	0.00
10/06/14	341	37.63	0.00	0.00	0.00
10/21/14	356	37.63	0.00	0.00	0.00
11/04/14	370	37.64	0.01	0.01	0.12
11/18/14	384	37.63	-0.01	0.00	0.00
12/05/14	401	37.63	0.00	0.00	0.00
12/19/14	415	37.63	0.00	0.00	0.00
01/09/15	436	37.64	0.01	0.01	0.12
01/23/15	450	37.63	-0.01	0.00	0.00
02/12/15	470	37.62	-0.01	-0.01	-0.12
02/27/15	485	37.62	0.00	-0.01	-0.12
03/13/15	499	37.62	0.00	-0.01	-0.12
03/27/15	513	37.64	0.02	0.01	0.12
04/10/15	527	37.63	-0.01	0.00	0.00
04/24/15	541	37.62	-0.01	-0.01	-0.12
06/19/15	597	37.63	0.01	0.00	0.00
07/07/15	615	37.63	0.00	0.00	0.00
07/17/15	625	37.63	0.00	0.00	0.00
07/31/15	639	37.62	-0.01	-0.01	-0.12
08/14/15	653	37.62	0.00	-0.01	-0.12
08/28/15	667	37.62	0.00	-0.01	-0.12
09/11/15	681	37.62	0.00	-0.01	-0.12
09/25/15	695	37.62	0.00	-0.01	-0.12
10/09/15	709	37.63	0.01	0.00	0.00
10/23/15	723	37.64	0.01	0.01	0.12
11/06/15	737	37.65	0.01	0.02	0.24
11/20/15	751	37.66	0.01	0.03	0.36
12/04/15	765	37.64	-0.02	0.01	0.12
12/18/15	779	37.64	0.00	0.01	0.12
01/07/16	799	37.64	0.00	0.01	0.12
01/22/16	814	37.64	0.00	0.01	0.12
02/08/16	831	37.64	0.00	0.01	0.12
03/04/16	856	37.66	0.02	0.03	0.36
03/18/16	870	37.63	-0.03	0.00	0.00
04/01/16	884	37.63	0.00	0.00	0.00
04/15/16	898	37.64	0.01	0.01	0.12
04/29/16	912	37.64	0.00	0.01	0.12
05/13/16	926	37.63	-0.01	0.00	0.00
05/27/16	940	37.65	0.02	0.02	0.24
09/08/16	1044	37.64	-0.01	0.01	0.12
01/12/17	1170	37.64	-0.01	0.01	0.12
03/23/17	1240	37.63	-0.01	0.00	0.00
06/17/17	1326	37.61	-0.02	-0.02	-0.24
09/19/17	1420	37.64	0.03	0.01	0.12
03/12/18	1594	37.64	0.00	0.01	0.12
03/28/18	1610	37.64	0.00	0.01	0.12
06/15/18	1689	37.64	0.00	0.01	0.12
09/19/18	1785	37.63	-0.01	0.00	0.00
01/10/19	1898	37.63	0.00	0.00	0.00
03/19/19	1966	37.63	0.00	0.00	0.00
07/15/19	2084	37.64	0.01	0.01	0.12
11/19/19	2211	37.67	0.03	0.04	0.48
03/05/20	2318	37.63	-0.04	0.00	0.00
04/08/21	2717	37.64	0.01	0.01	0.12
03/17/22	3060	37.64	0.00	0.01	0.12
03/29/23	3437	37.63	-0.01	0.00	0.00

STATE OF NEW YORK
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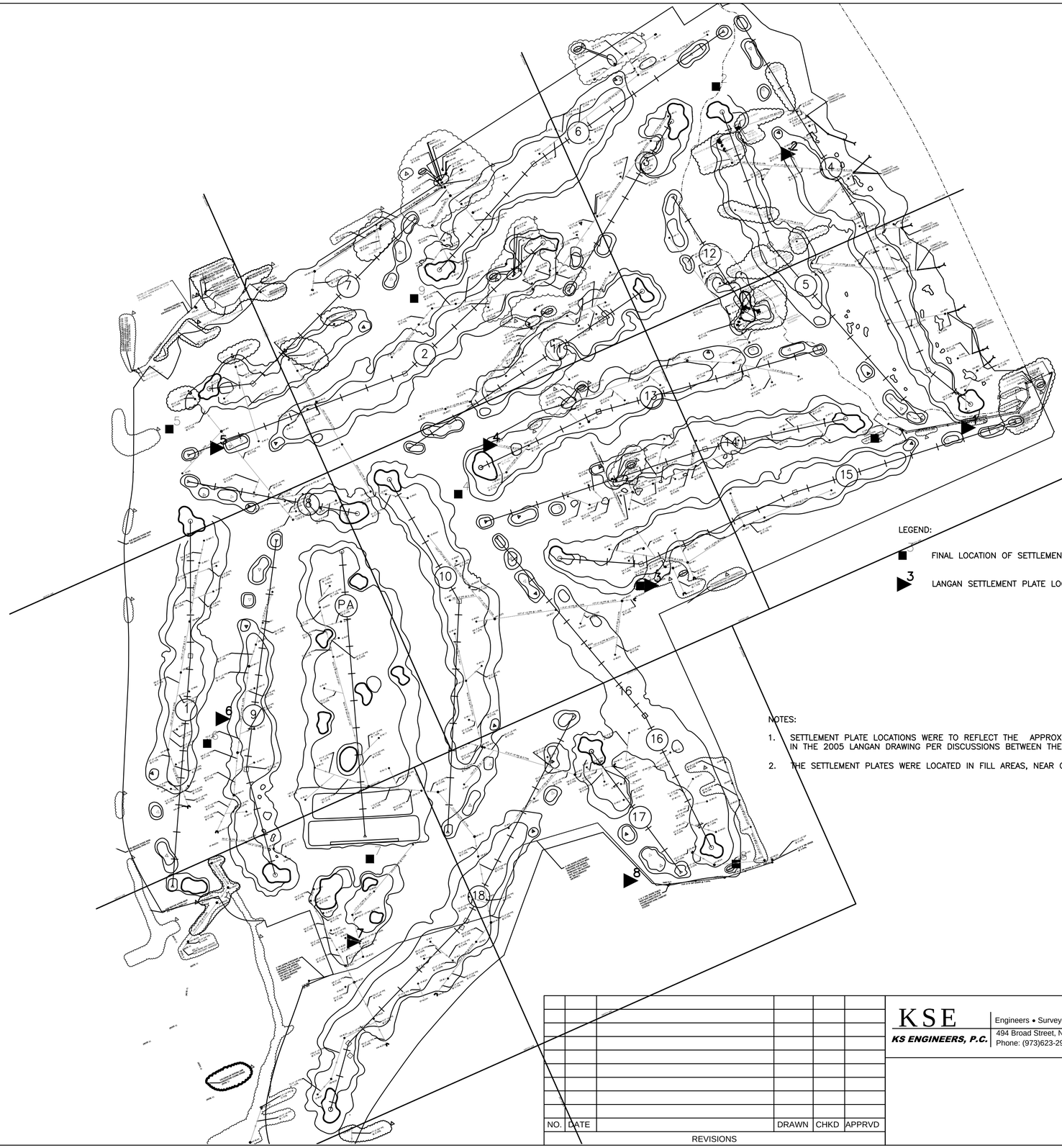

LEGEND:

FINAL LOCATION OF SETTLEMENT PLATES

LANGAN SETTLEMENT PLATE LOCATIONS, (2005)

NOTES:

1. SETTLEMENT PLATE LOCATIONS WERE TO REFLECT THE APPROXIMATE LOCATIONS SHOWN IN THE 2005 LANGAN DRAWING PER DISCUSSIONS BETWEEN THE IEM AND SANFORD GOLF.

2. THE SETTLEMENT PLATES WERE LOCATED IN FILL AREAS, NEAR GREENS AND/OR UTILITIES.

NO.	DATE		DRAWN	CHKD	APPRVD
		REVISIONS			

KSE
KS ENGINEERS, P.C.
Engineers • Surveyors • Construction Managers
494 Broad Street, Newark, N.J. 07102
Phone: (973)623-2999, Fax: (973)623-2988

FERRY POINT GOLF COURSE
SETTLEMENT PLATE LOCATIONS

DESIGN BY: L.KERN
DRAWN BY: M. CHOUDHURY
CHECKED BY: H. BAKER
SCALE: N.T.S.
DATE: 04/11/2012

Mizanur Choudhury
12/6/2007 4:36:28 PM
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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Regional Director, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4949 I F: (718) 482-4026
www.dec.ny.gov

June 15, 2023

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Re: **2023 Annual Settlement Plate Monitoring Report**
Ferry Point Park Golf Course, Bronx, NY
NYSDEC Permit No. 2-6006-00014/00013

New York State Department of Environmental Conservation (Department) staff have received the subject report prepared by GEI Consultants, Inc. (GEI) dated June 15, 2023, on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the annual settlement plate monitoring event conducted on March 29, 2023, at the Ferry Point.

Based on the March 2023 results and assessment of historic settlement data, GEI has recommended that NYCDPR make a request to NYSDEC to terminate all future settlement plate monitoring, as long as the former landfill continues to be utilized and maintained in its current condition as a golf course.

After careful review of the settlement plate data from the last four annual reports from 2020-2023 and previously performed quarterly monitoring (later reduced to annual monitoring as per NYSDEC approval dated Jan 7, 2020) along with specific circumstances and history of this site, the Department hereby grants your request to suspend all future annual settlement plate monitoring.

If you have any questions regarding this matter or need additional information on the regulatory requirements, please feel free to contact our office at 718 482-4996.

Sincerely,

Mahmoud Assi, P.E.
Regional Materials Management Engineer

cc: M. Rowland, NYCDPR.
K. Zias, NYCDPR
W. Frank/S. Samuel, R2 DMM
Stacey Ng, GEI Consultants

2023-06-16.03S25.FerryPointParkLandfill_SuspensionofSettlementPlateMonitoring.cr.assi

Appendix F

Sub-Slab Depressurization System Monitoring Reports

April 20, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: Quarterly Sub-Slab Depressurization System (SSDS) Monitoring - Quarter 1, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the SSDS infrastructure monitoring event conducted on March 28, 2023, at the Ferry Point Park Golf Course and Community Park. Quarterly sub-slab depressurization (SSD) and combustible gas (CG) monitoring system operations, maintenance, and monitoring (OM&M) is performed in compliance with the NYSDEC Permit No. 2-6006-00014/00013, the October 2013 *Post Construction Custodial Care Plan*, the October 2013 *Landfill Gas Management Plan*, and the site-specific OM&M Manual.

The following locations are included in the SSDS and/or CG OM&M:

- Community Park Comfort Station (CPCS);
- Golf Course Maintenance Building (Maintenance Building):
- Golf Course Comfort Station (GCCS);
- Golf Course Cart Storage Barn (Cart Barn); and
- Golf Course Clubhouse (Clubhouse).

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

Summary of OM&M Inspection Activities

SSD and CG monitoring systems OM&M activities included visual inspections and collection of oxygen, organic vapor, and methane (percent methane by volume, percent lower explosive limit [LEL]) readings from beneath the building slabs. In locations with sub-slab monitoring points, sub-slab pressure was measured to determine if the SSDS is creating a negative pressure beneath the structures. The location of on- and off-Site buildings with SSD and CG systems are depicted on Figure 1, and the system layout and components for each building are depicted on Figure 2 through 6.

OM&M Observations and Results

Community Park Comfort Station (CPCS)

OM&M was performed at the CPCS on March 28, 2023, which included the collection of sub-slab pressure CG readings, inspection of the SSDS to verify it was operational, as well as a review of the real-time data at the CG sensor. Table 1 contains a summary of the OM&M visit results, with historical data presented on Table 2A. Below is a summary of the observations made during the CPCS monitoring event:

- The SSD and CG systems were operational during, and prior to, the Q1 monitoring event;
- The combustible gas data logging system was online, operational and transmitting data to the central datalogging panel, registering the ambient readings of 0.0% LEL;
- Low levels of volatile organic compounds (VOCs) were detected within the building;
- Methane and VOCs were detected at low concentrations under the building;
- Sub-slab pressure measurements collected from the sub-slab monitoring point (Figure 2) during the Q1 monitoring event indicated that there was not a negative pressure gradient being generated beneath the building slab by the SSDS, however the blower was operational and CG concentrations were low within the building. The pressure issue has occurred during previous events and is thought to be associated with seasonal variations.

Golf Course Maintenance Building (Maintenance Building)

OM&M performed at the Maintenance Building included the inspection of the SSDS to verify it was operational, collection of sub-slab pressure CG readings, and

review of the real-time data at the CG sensor. A summary of the Q1 monitoring results is presented on Table 1, with historical data presented on Table 2B. Below is a summary of the observations denoted at the Maintenance Building during the OM&M event:

- The SSD and CG systems were operational during, and prior to, the Q1 monitoring event;
- The combustible gas data logging system was online, operational and transmitting data to the central datalogging panel, registering the ambient readings of 0.0% LEL;
- Low levels of volatile organic compounds (VOCs) were detected within the building;
- Methane and VOCs were detected at low concentrations under the building;
- Sub-slab pressure measurements collected from the sub-slab monitoring points (Figure 3) during the Q1 monitoring event indicated that the SSDS was generating negative pressure beneath the building slab. The negative pressure was greater than Q4 2022, and of similar to that of Q1 2022. The methane LEL detected at MP-1 was lesser than that of Q4 2022 (8% and 34%, respectively) while the methane LEL was greater at MP-2 and MP-3 than Q4 2022 (2% and 0%, respectively).

Golf Course Comfort Station (GCCS)

GCCS monitoring included the review of the real-time data at the CG sensor, the inspection of the SSDS to verify it was operational, and collection of sub-slab pressure CG readings. Table 1 contains a summary of the OM&M visit results, with historical data presented on Table 2C. Below is a summary of the observations made at the GCCS during the OM&M event:

- The SSD and CG systems were operational prior to and during the Q1 monitoring event;
- The combustible gas data logging system was online, operational and transmitting data to the central datalogging panel, registering the ambient readings of 0.0% LEL;
- Low levels of volatile organic compounds (VOCs) were detected within the building at MP-1;

- Methane and VOCs were detected at low concentrations under the building at all three monitoring points;

- Sub-slab pressure measurements collected from the three sub-slab monitoring points (Figure 4) during the Q1 monitoring event indicated that the SSDS is generating negative pressure beneath the slab. The vacuum pressure recorded at MP-3 was significantly lower than that of Q4 2022, however it was consistent with historical data.

Golf Course Cart Storage Barn (Cart Barn)

OM&M performed at the Cart Barn included the inspection of the SSDS to verify it was operational, collection of sub-slab pressure CG readings, and review of the real-time data at the CG sensor. A summary of the Q1 monitoring results is presented on Table 1, with historical data presented on Table 2D. Below is a summary of the observations made during the OM&M event at the Cart Barn:

- The SSD and CG systems were operational during, and prior to, the Q1 monitoring event;

- The combustible gas data logging system was online, operational and transmitting data to the central datalogging panel, registering the ambient readings of 0.0% LEL;

- Low levels of volatile organic compounds (VOCs) were detected at all monitoring points within the building;

- Methane and VOCs were detected at low concentrations under the Cart Barn;

- Sub-slab pressure measurements collected from all four sub-slab monitoring points (Figure 5) during the Q1 monitoring event indicated that the SSDS was generating negative pressure beneath the building slab, consistent with historical data. However, the flow pressure measured at the blower was significantly lower than that of previous OM&M events.

Golf Course Clubhouse (Clubhouse)

The Clubhouse OM&M event included the review of the real-time data at the CG sensor, the inspection of the SSDS to verify it was operational, and collection of sub-slab pressure CG readings. Table 1 contains a summary of the OM&M visit results, with historical data presented on Table 2E. Below is a summary of the observations made at the Clubhouse during the monitoring event:

- The SSD and CG systems were operational prior to and during the Q1 monitoring event;
- The combustible gas data logging system was online, operational and transmitting data to the central datalogging panel, registering the ambient readings of 0.0% LEL;
- Low levels of volatile organic compounds (VOCs) were detected within the building at all ten monitoring point locations;
- Methane and VOCs were detected at low concentrations under the building at all monitoring points (MP-1 to MP-10);
- Sub-slab pressure measurements collected from the ten sub-slab monitoring points (Figure 6) during the Q1 monitoring event indicated that the SSDS is generating negative pressure beneath the slab, consistent with measurements collected during previous events. The vacuum pressure noted at MP-3 (located in the dining area) was greater than that of historical events.

Conclusions and Recommendations

From the Quarter 1 OM&M event, the results confirm that the SSD and GC systems are operational. Sub-slab pressure readings collected from the on- and off-Site monitoring points indicated that the SSDS in the Golf Course Comfort Station, Golf Course Cart Storage Barn, Golf Course Maintenance Building and Golf Course Clubhouse are creating a negative pressure gradient beneath the building slabs. The Community Park Comfort Station did not demonstrate negative pressure conditions; however, the blower was operational and only low levels of volatile organic compounds (VOCs) were detected within the building.

All CG sensors were communicating with their respective control panels and registered ambient methane readings of 0.0% LEL. The main datalogging panel, located in the Golf Course Maintenance Building, is receiving data from the Golf Course Cart Barn, Golf Course Clubhouse, Community Park and Golf Course Comfort Stations, and Golf Course Maintenance Building. Combustible gas data is accessed remotely, reviewed and downloaded periodically. Methane readings from the CG sensor data are monitored and downloaded periodically, and no alarm conditions have been registered.

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – SSD and CG System Locations
Figure 2 – Community Park Comfort Station
Figure 3 – Golf Course Maintenance Building
Figure 4 – Golf Course Comfort Station
Figure 5 – Golf Course Cart Storage Barn
Figure 6 – Golf Course Clubhouse
Table 1 - Summary of 2023 Q1 OM&M Data
Table 2A - Comparison of Community Park Comfort Station OM&M Data
Table 2B - Comparison of Golf Course Maintenance Building OM&M Data
Table 2C - Comparison of Golf Course Comfort Station OM&M Data
Table 2D - Comparison of Golf Course Cart Storage Barn OM&M Data
Table 2E - Comparison of Golf Course Clubhouse OM&M Data

c: M. Rowland, NYCDPR
K. Zias, NYCDPR
K. McCarty, GEI

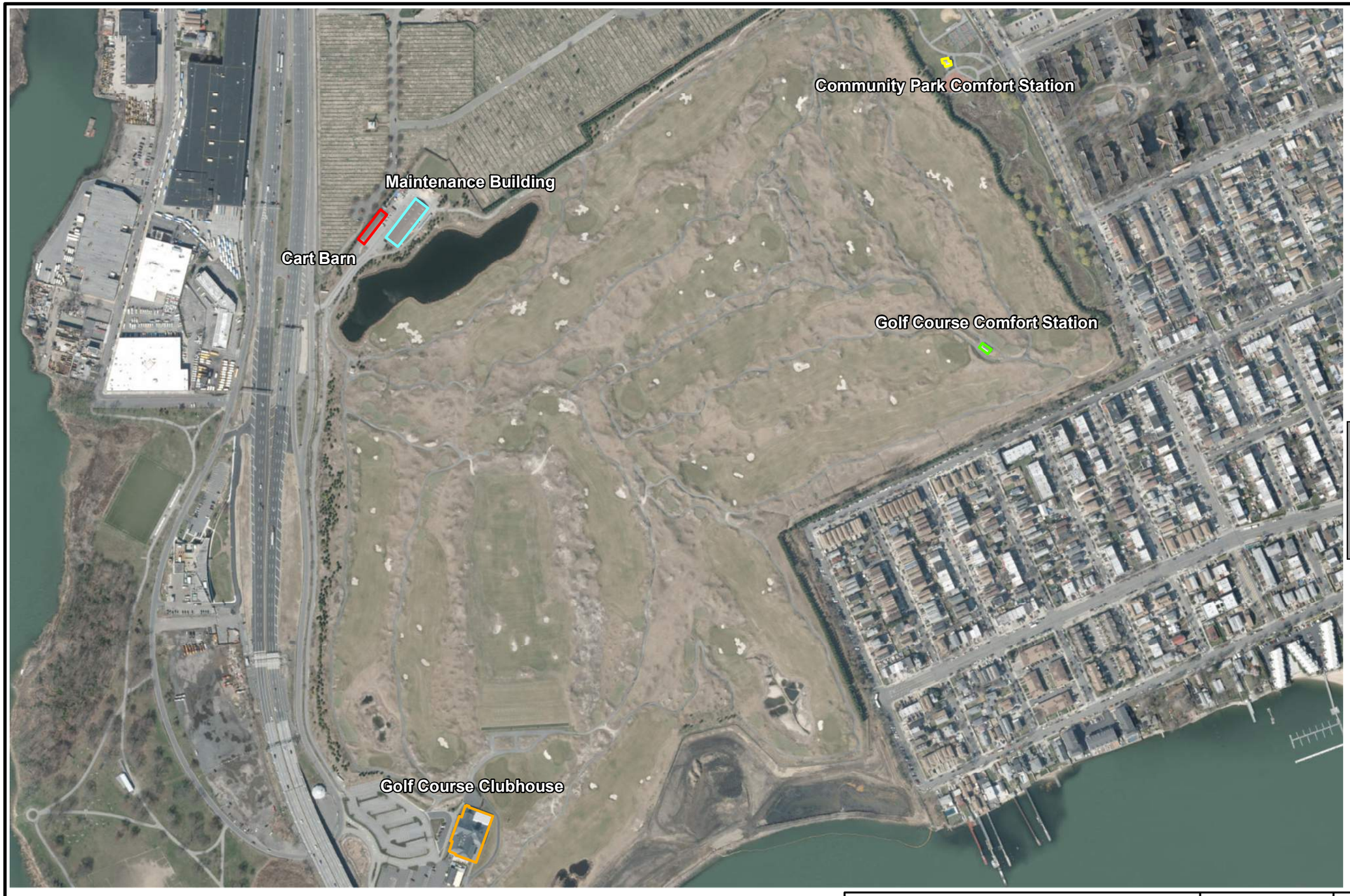

LEGEND

- Cart Barn
- Golf Course Comfort Station
- Maintenance Building
- Golf Course Clubhouse
- Community Park Comfort Station

SOURCE:
1. ESRI IMAGERY BASE MAP

0 300 600
SCALE: 1 " = 409 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

GEI Consultants

Project 2204594

SSD AND CG SYSTEM

Fig. 1

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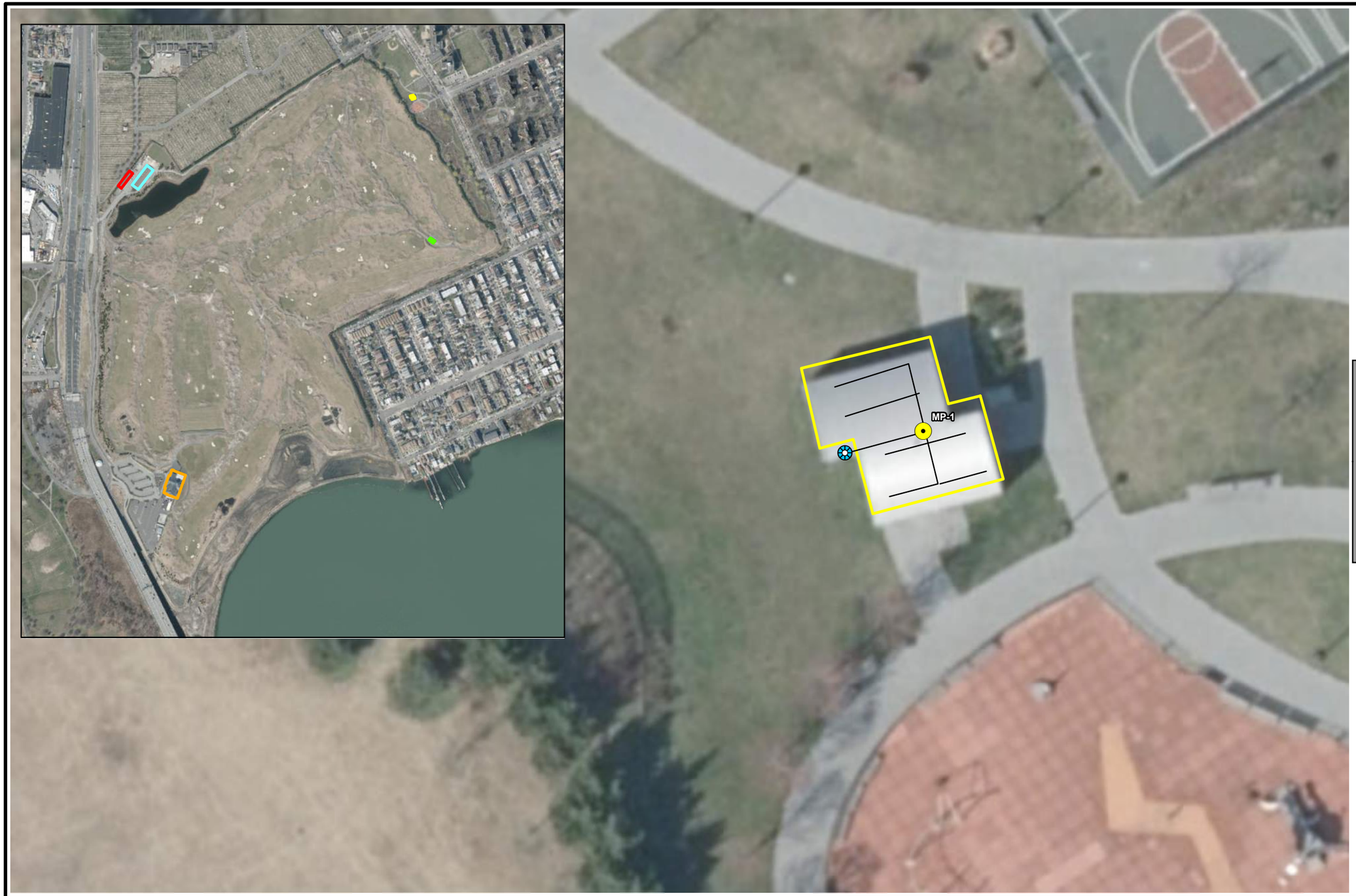

LEGEND

- Vertical Riser with Sampling Point
- Sub-Slab Monitoring Point
- SSDS Piping
- Cart Barn
- Golf Course Comfort Station
- Maintenance Building
- Golf Course Clubhouse
- Community Park Comfort Station

SOURCE:
1. ESRI IMAGERY BASE MAP

0 10 20
SCALE: 1 " = 20 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

GEI Consultants

Project 2204594

COMMUNITY PARK
COMFORT STATION

Fig. 2

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LEGEND

- CG Control Panel
- Combustible Gas Meter
- Sub-Slab Depressurization Pit
- Sub-Slab Monitoring Point
- Vertical Riser
- SSDS Piping
- Cart Barn
- Golf Course Comfort Station
- Maintenance Building
- Golf Course Clubhouse
- Community Park Comfort Station

SOURCE:
1. ESRI IMAGERY BASE MAP

0 10 20
SCALE: 1 " = 27 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

GEI Consultants

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MAINTENANCE BUILDING

Fig. 3

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LEGEND

- Controller
- Exterior SSDS Monitoring Point
- Interior SSDS Monitoring Point
- Methane and H2S Sensor
- Methane Sensor
- 6" PVC
- Sub-Slab Depressurization Pit
- SSDS Piping
- Maintenance Building
- Cart Barn
- Golf Course Comfort Station
- Community Park Comfort Station
- Golf Course Clubhouse

SOURCE:
1. ESRI IMAGERY BASE MAP

0 10 20

SCALE: 1 " = 10 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

GEI Consultants

Project 2204594

GOLF COURSE COMFORT STATION

Fig. 4

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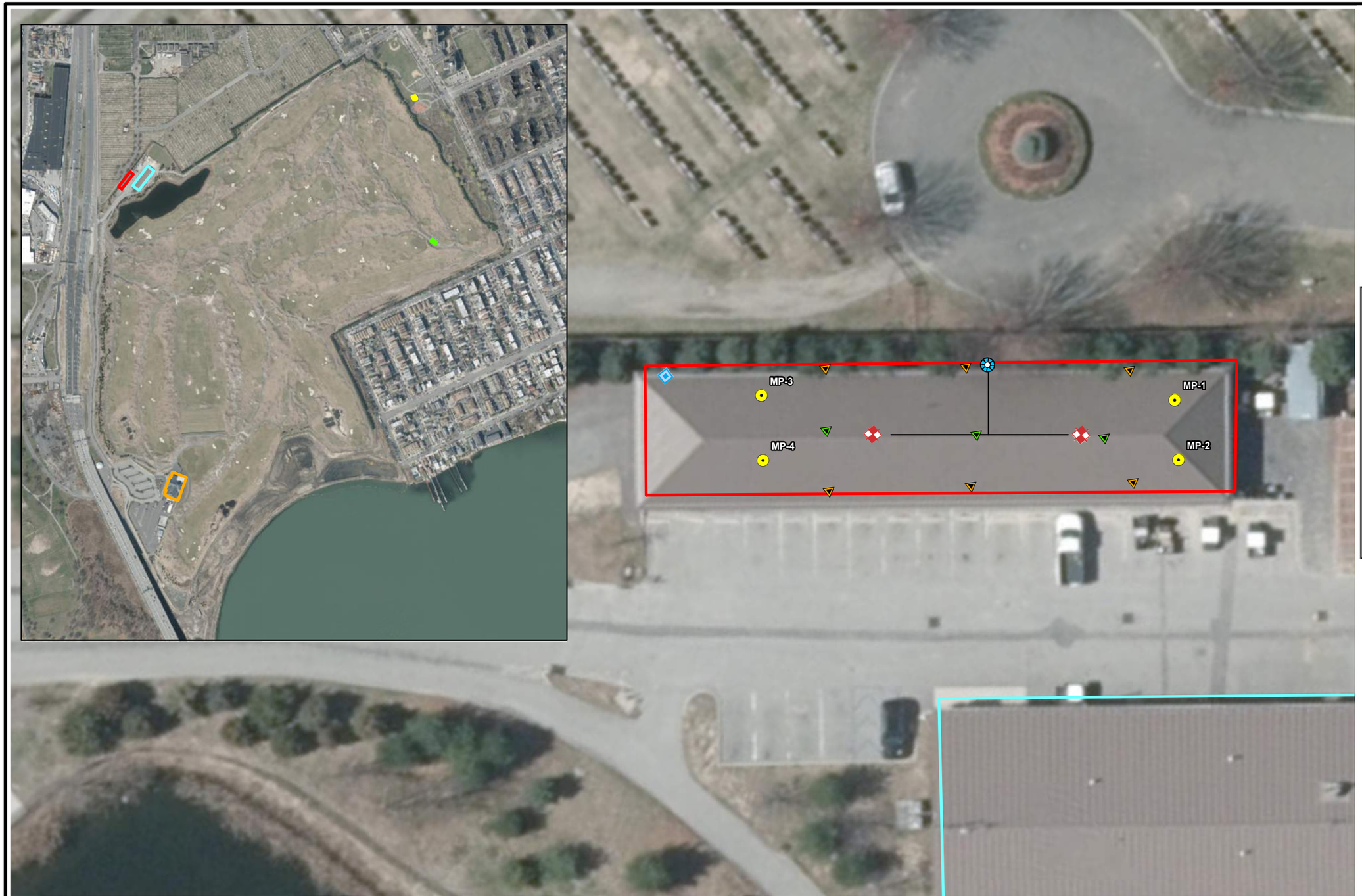

LEGEND

- 2 Combustible Point
- Combustible Point
- Controller
- Monitoring Point
- Pit
- Sub-slab monitoring
- SSDS Piping
- Cart Barn
- Golf Course Comfort Station
- Maintenance Building
- Golf Course Clubhouse
- Community Park Comfort Station

SOURCE:
1. ESRI IMAGERY BASE MAP

0 10 20
SCALE: 1 " = 26 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

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CART BARN

Fig. 5

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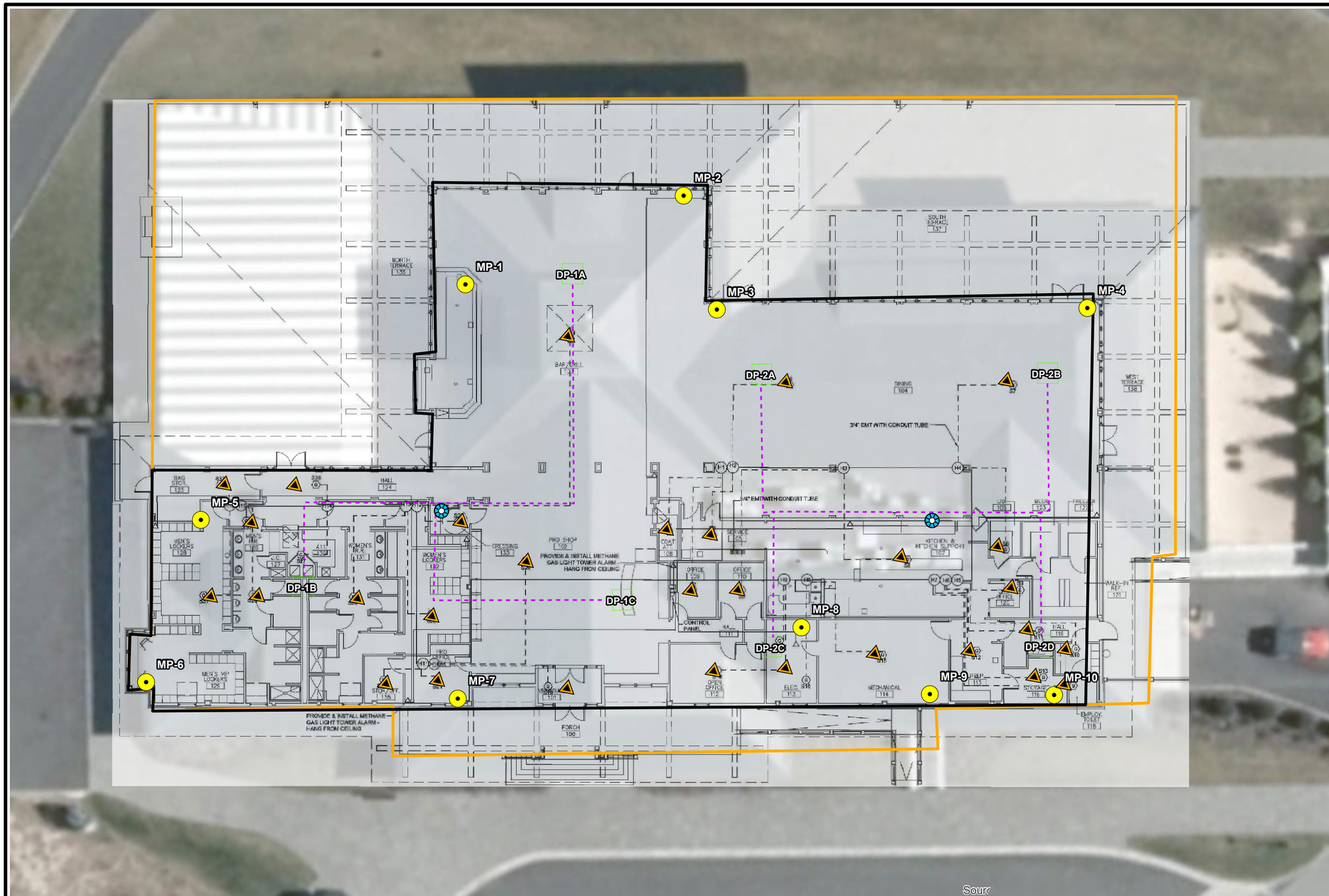

LEGEND

- Gas Sensor
- Suction Fan Vertical Riser
- Sub-Slab Monitoring Point
- SSDS Piping
- Depressurization Pit
- Maintenance Building
- Community Park Comfort Station
- Cart Barn
- Golf Course Comfort Station
- Interior Clubhouse
- Golf Course Clubhouse

SOURCE:
1. ESRI IMAGERY BASE MAP

0 10 20
SCALE: 1 " = 20 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

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GOLF COURSE CLUBHOUSE

Project 2204594

Fig. 6

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Table 1
Summary of 2023 Q1 OM Data - Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Ferry Point Park, Bronx, NY

Sub-slab Depressurization (SSD) and Combustible Gas (CG) System Status	Community Park Comfort Station	Golf Course Maintenance Building			Golf Course Comfort Station			Cart Storage Barn					Golf Course Clubhouse Building									
Date	3/28/2023	3/28/2023			3/28/2023			3/28/2023					3/28/2023									
SSD System	Operational	Operational			Operational			Operational					Operational									
CG System	Operational	Operational			Operational			Operational					Operational									
CG System Alarm Status	No Alarm Conditions	No Alarm Conditions			No Alarm Conditions			No Alarm Conditions					No Alarm Conditions									
SSD/CG System OM&M Data	MP-1	MP-1	MP-2	MP-3	MP-1	MP-2	MP-3	Blower	MP-1	MP-2	MP-3	MP-4	MP-1	MP-2	MP-3	MP-4	MP-5	MP-6	MP-7	MP-8	MP-9	MP-10
Pressure ("WC)	0.012	-2.430	-1.863	-1.415	-5.567	-5.580	-0.816	-0.450	-0.729	-0.678	-0.717	-0.721	-0.427	-0.002	-2.55	-0.063	-0.003	-0.439	-0.406	-0.055	-0.056	-0.069
LEL (%)	2	8	2	2	4	2	4	2	2	2	2	2	2	2	2	2	2	4	4	2	2	2
Methane By Volume (%)	0.1	0.4	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1
Ambient LEL (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oxygen (%)	21.6	20.6	21.0	20.9	21.9	21.8	21.5	21.3	21.2	21.1	21.3	21.4	21.5	21.3	20.9	21.1	21.7	22.0	22.0	20.9	20.9	21.0
Maximum Ambient PID (ppm)	0.1	0.4	0.7	0.3	0.1	0.0	0.0	0.2	0.3	0.3	0.5	0.6	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.3	0.2	0.2
Sub-Slab PID (ppm)	0.2	0.6	0.5	0.3	0.1	0.1	0.2	0.1	0.2	0.2	0.3	0.2	0.2	0.4	0.4	0.2	0.4	0.3	0.2	0.4	0.2	0.3

Notes:
"WC - Inches of Water
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figures 2 through 5 for locations)
cfm - cubic feet per minute
N/A - not applicable
NM - not measured
IA - inaccessible
*No pressure reading in blower however flow reading provided in cubic feet per minute (cfm)

Table 2A
Comparison of OM Data
Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Community Park Comfort Station
Ferry Point Park, Bronx, NY

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Community Park Comfort Station						
				MP-1						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
3/22/2017	30.14	37	Yes	Sub-slab monitoring point MP-1 installed on August 15, 2018						
6/19/2017	29.78	84	Yes							
9/22/2017	29.98	75	Yes							
12/20/2017[1]	29.84	45	Yes							
3/28/2018	30.04	50	Yes							
6/25/2018	30.03	70	Yes							
9/27/2018 and 10/3/2018	30.03	60	Yes	-0.14	0	0	0	21.3	0	0
12/17-18/2018[2]	29.62-29.94	45-35	Yes	0.003[3]	0	0	0	20.6	0	0
2/4/2019[4]	30	55	Yes	-0.012	0	0	0	20.7	0	0
3/14/2019	30.07	48	Yes	-0.009	0	0	0	20.7	0	0
6/27/2019	30.11	79	Yes	-0.013	0	0	0	19.7	0.2	0.7
9/4/2019	29.94	75	Yes	-0.018	0	0	0	20.5	0	0
1/8/2020	30.03	35	Yes	-0.009	0	0	0	20.3	0	0.1
4/28/2020	30.15	45	Yes	-0.003	0	0	0	21.3	0.1	0.1
6/29/2020	29.83	75	Yes	-0.03	0	0	0	20.7	0	0
9/24/2020	29.95	64	Yes	-0.067	0	0	0	20.9	0	0
12/14/2020	29.96	40	Yes	-0.011	0	0	0	21.5	0	0
3/22/2021	30.37	46	Yes	-0.004	0	0	0	22	0	0
6/28/2021	30.29	78	Yes	0.002	0	0	0	20.4	0.4	0.4
9/28/2021	29.81	71	Yes	-0.004	0	0	0	21.2	0	0
12/20/2021	30.29	27	Yes	-0.009	0	0	0	21.1	0	0
3/16/2022	30.2	55	Yes	-0.024	0	0	0	21.1	0	0
6/28/2022	30.04	67	Yes	-0.06	0	0	0	20.6	0	0
9/20/2022	29.85	70	Yes	0.06	0	0	0	22.2	0	0
12/6/2022	30.25	50	Yes	0.123	0	0	0	21	0	0
3/28/2023	30.05	52	Yes	0.012	2	0.1	0	21.6	0.1	0.2

Notes:
"WC - Inches of Water
"Hg - inches of mercury
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figure 2 for locations)
cfm - cubic feet per minute
N/A - not applicable
% O_2 - percent oxygen
°F - degrees Fahrenheit
[1]Ambient % Ox reading of 23.5% due to inability to field calibrate GEM5000 oxygen sensor
[2]Monitoring event split between two days due to access issues
[3]Vacuum fluctuated between +0.024 to -0.018. Average = +0.003
[4]Recheck to see if Vacuum is generating negative pressure at MP-1

Table 2B
Comparison of OM Data - Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Golf Course Maintenance Building
Ferry Point Park, Bronx, NY

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Golf Course Maintenance Building																				
				MP-1							MP-2							MP-3						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
3/22/2017	30.02	61.7	Yes	-0.112	0	0	0	20.7	8	0	-0.197	2	0.1	0	19.3	8	19	-0.153	>100	20.3	0	0	8	0
6/21/2017	29.91	70	Yes	-0.123	2	0.1	0	N/A	0	0	-0.090	0	0	0	20.6	0	0	-0.025	0	0	0	20.9	0.1	0.3
9/22/2017	29.93	75	Yes	-0.058	76	3.8	0	4.2	0	0	-0.031	2	0.1	0	19.3	0	0	-0.04	>100%	23.1	1	0	0	0.2
12/20/2017[1]	29.92	65	Yes	-0.089	44	2.2	0	13.3	0	0	-0.025	12	0.6	0	20.8	0	1	-0.056	>100%	24.6	0	0.4	0.1	0.2
3/28/2018	30.04	68	Yes	-2.800	0	0	0	21.1	0	0	-2.817	0	0	0	2.2[2]	0	0	Inaccessible						
6/25/2018	30.03	70	Yes	-2.768	2	0.1	2	19.8	0	0	-2.779	2	0.1	2	20.7	0	0	Inaccessible						
9/27/2018	30	57	Yes	-0.050	28	1.4	0	6.2	0	1	-0.074	0	0	0	20.4	0	0	-0.036	>100	7.7	0	1.2	0	0
12/17/2018	29.62	45	Yes	-0.077	44	2.2	0.1	10	0	0	-0.084	2	0.1	0.1	18.8	0	0	Inaccessible						
2/4/2019[3]	30	55	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-0.033	>100	15.2	0	1.3	0.4	0.3
3/15/2019	29.64	62	Yes	-0.054	44	2.2	0	12	1.5	1.5	-0.054	16	0.8	0	18.9	1.4	1.4	-0.063	>100	19.9	0	0.5	4.6	0
6/13/2019	29.63	77	Yes	-0.029	30	1.5	0	8.4	0.2	0.4	-0.022	30	1.5	0	11.3	0	0	-0.057	>100	17.7	0	0.4	0	0
9/4/2019	29.94	78	Yes	-2.650	0	0	0	20.6	0.1	0	-2.663	0	0	0	20.3	0	0	-2.666	0	0	0	15.9	0	0
1/8/2020	30.04	36	Yes	-2.710	0	0	0	20.3	0.1	0.2	-2.730	0	0	0	20.0	1.3	0.8	-2.729	0	0	0	16.2	0.6	0.8
4/7/2020	29.9	53	Yes	-2.679	0	0	0	21	0.4	0	-2.698	0	0	0	21.0	1.8	0	-2.704	0	0	0	21	0.4	0
6/29/2020	29.83	75	Yes	-2.605	0	0	0	20.6	0.2	0	-2.606	0	0	0	20.7	0	0	-2.602	0	0	0	16.1	0	0
9/24/2020	29.95	64	Yes	-1.570	0	0	0	20.8	0	0	-2.500	0	0	0	20.1	0	0	-1.92	0	0	0	20.9	0	0
12/15/2020	30.26	39	Yes	-1.892	0	0	0	21.1	0	0	-2.618	0	0	0	20.3	0	0	-2.005	0	0	0	21.3	0	0
3/22/2021	30.38	46	Yes	-2.517	0	0	0	21.2	0	0	-2.516	0	0	0	21.0	0	0	-2.621	0	0	0	21.6	0	0
6/28/2021	30.21	81	Yes	-2.541	0	0	0	20.1	0	0	-2.549	0	0	0	20.7	0	0	-2.542	0	0	0	17.5	0.2	0.2
9/28/2021	29.81	72	Yes	-2.604	0	0	0	21.6	0	0	-2.651	0	0	0	20.2	0	0.8	-2.611	0	0	0	21.4	0	0
12/20/2021	30.28	28	Yes	-1.957	0	0	0	20.9	0	0	-1.979	0	0	0	20.6	0	0	-1.968	0	0	0	20.6	0	0
3/16/2022	30.2	55	Yes	-2.143	0	0	0	20.9	0	0	-2.099	0	0	0	20.2	0	0	-2.159	0	0	0	20.6	0	0
6/28/2022	30.04	67	Yes	-0.030	0	0	0	15.2	0	0	-0.013	0	0	0	15.5	0	0	-0.023	0	0	0	9	0	0
7/20/2022	29.77	85	Yes	-2.417	0	0	0	NM	NM	NM	-2.430	0	0	0	NM	NM	NM	-2.432	0	0	0	NM	NM	NM
9/20/2022	29.85	70	Yes	-0.130	6	0.3	0	21.1	0	0	-0.302	0	0	0	21.4	0	0	-0.156	0	0	0	18.4	0	0
12/6/2022	30.25	50	Yes	-0.200	34	1.7	0	10.9	0	0.1	-0.010	0	0	0	4.8	0.7	0.7	-0.03	0	3.6	0	14.7	0.2	0.2
3/28/2023	30.05	52	Yes	-2.430	8	0.4	0	20.6	0.4	0.6	-1.863	2	0.1	0	21.0	0.7	0.5	-1.415	2	0.1	0	20.9	0.3	0.3

Notes:
"WC - Inches of Water
"Hg - inches of mercury
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figure 3 for locations)
cfm - cubic feet per minute
N/A - not applicable
NM - not measured
% O_2 - percent oxygen
°F - degrees Fahrenheit
[1]Ambient % Ox reading of 23.5% due to inability to field calibrate GEM5000 oxygen sensor
[2]Monitoring event conducted under ambient humid conditions
[3]Monitoring point MP-3 was not accessible during last quarter monitoring

Table 2C
Comparison of OM Data - Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Golf Course Comfort Station
Ferry Point Park, Bronx, NY

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Golf Course Comfort Station																				
				MP-1							MP-2							MP-3						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
3/22/2017	30.09	59.4	Yes	-5.371	2	0.1	0	21.6	0	0	Sub-slab monitoring point MP-2 installed on August 15, 2018							Sub-slab monitoring point MP-2 installed on August 15, 2018						
6/19/2017	29.81	84	Yes	-5	2	0.1	0	20.4	0	0														
9/22/2017	29.96	75	Yes	-4.8	0	0	0	21.1	0	0														
12/20/2017[1]	29.91	65	Yes	-5.095	2	0.1	2	23.5	0.1	0.1														
3/28/2018[2]	30.07	68	Yes	-0.038	0	0	0	21.2	80	0														
6/25/2018	30.03	75	Yes	-0.09	2	0.1	2	20.7	0	0														
9/27/2018	30	60	Yes	-0.023	0	0	0	21.7	0	0	-0.67	4	0.2	0	19.4	0	0	-0.024	2	0.1	0	21.4	0	0.2
12/17-18/2018[3]	29.59-29.91	40-35	Yes	-4.777	0	0	0	19.7	0	0	-5.532	2	0.1	0.1	22.6	0	0	-4.414	2	0.1	0.1	21.9	0	0
3/15/2019	29.65	64	Yes	-5.385	0	0	0	20.3	0.5	0.6	-5.596	0	0	0	20.3	0.5	0.1	-2.63	0	0	0	20.2	0.5	0
6/13/2019	29.62	77	Yes	-3.684	>100	13.5	0	11.1	3.5	399.1	-5.607	0	0	0	21.8	0	0	-5.409	2	0.1	0	18.9	0.3	0.4
9/4/2019	29.9	80	Yes	-3.21	0	0	0	19.1	0	0	-0.02	2	0	0	17	0	0	-6.116	6	0.3	0	15.6	0	0
1/8/2020	30.01	37	Yes	-5.923	0	0	0	19.9	0	0	-6.531	0	0	0	19.9	0	0	-4.931	0	0	0	18.3	0	0
4/7/2020	29.9	53	Yes	-5.49	0	0	0	21.4	0	0	-5.719	0	0	0	21.2	0	0	-1.476	0	0	0	20	0	0
6/29/2020	29.83	75	Yes	-6.165	0	0	0	20.9	0	0	-0.79	0	0	0	20.7	0	0	-6.392	0	0	0	20.8	0	0
9/24/2020	29.98	64	Yes	-0.016	0	0	0	20.7	0	0	-0.023	0	0	0	19.3	0	0	-0.013	0	0	0	18.5	0	0
12/14/2020	29.96	40	Yes	-1.848	0	0	0	22.3	0	0	-0.934	0	0	0	21.6	0	0	-0.178	0	0	0	21.6	0	0
3/22/2021	30.35	46	Yes	-0.002	0	0	0	21.3	0	0	0.002	0	0	0	21.2	0	0	0.171	0	0	0	21.1	0	0
6/28/2021	30.19	85	Yes	-6.894	0	0	0	20.7	0	0	-6.733	0	0	0	20.3	0	0	-0.72	0	0	0	20.1	0	0
9/28/2021	29.81	71	Yes	-0.182	0	0	0	21	0	1	-0.949	0	0	0	21	0	0	-0.137	0	0	0	21	0	0
12/20/2021	30.28	28	Yes	-4.668	0	0	0	21.1	0	0	-4.643	0	0	0	20.9	0	0	-3.713	0	0	0	20.8	0	0
3/16/2022	30.2	55	Yes	-7.148	0	0	0	21.2	0	0	-7.081	0	0	0	21.1	0	0	-6.231	0	0	0	19.9	0	0
6/28/2022	30.04	67	Yes	-5.647	0	0	0	20.1	0	0	-4.922	0	0	0	19.8	0	0	-0.074	0	0	0	19.6	0	0
9/20/2022	29.85	70	Yes	-6.183	0	0	0	20.1	0	0	-6.088	0	0	0	22	0	0	-0.667	0	0	0	21.8	0	0
12/6/2022	30.25	50	Yes	-5.818	0	0	0	21	0	0	-5.845	0	0	0	21.2	0	0	-4.075	0	0	0	21.1	0	0
3/28/2023	30.05	52	Yes	-5.567	4	0.2	0	21.9	0.1	0.1	-5.580	2	0.1	0	21.8	0	0.1	-0.816	4	0.2	0	21.5	0	0.2

Notes:
"WC - Inches of Water
"Hg - inches of mercury
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figure 4 for locations)
cfm - cubic feet per minute: Due to instrumentation malfunction this reading was collected in cfm instead of WC to ensure accuracy
NM - not measured
% O_2 - percent oxygen
°F - degrees Fahrenheit
[1]Ambient % O2 reading of 23.5% due to inability to field calibrate GEM5000 oxygen sensor
[2]Monitoring event conducted under ambient humid conditions
[3]Monitoring event split between two days due to access issues. MP-1 monitored 12/18/18; MP-2 and MP-3 monitored 12/17/18

Table 2D
Comparison of OM Data - Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Golf Course Cart Storage Barn
Ferry Point Park, Bronx, NY

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Cart Storage Barn																				
				Blower Effluent							MP-1							MP-2						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
4/19/2017	30.51	55	Yes	-	-	-	-	-	-	-	-0.819	0	0	0	20.8	0	0	-0.824	0	0	0	20.9	0	0
6/19/2017	29.79	80	Yes	357-410	0	0	0	20.9	0	0	-0.916	0	0	0	20.8	0	0	-0.915	0	0	0	20.8	0	0
9/22/2017	29.93	75	Yes	300-800	2	0.1	0	20.1	0	0	-0.92	0	0	0	21.2	0	0	-0.915	0	0	0	21.1	0	0
12/20/2017[1]	29.9	45	Yes	395	2	0.1	2	23.2	0	0	-0.741	0	0	0	23.8	0	0	-0.725	0	0	0	23.8	0	0
3/28/2018	30.03	55	Yes	635	0	0	0	21.8	0	0	-0.937	0	0	0	21.1	0	0	-0.938	0	0	0	21.1	0	0
6/25/2018	30.03	70	Yes	585	2	0.1	2	20.5	0	0	-0.905	2	0.1	2	20.4	0.5	0.1	-0.911	2	0.1	2	20.4	0	0
9/27/2018	30.3	62	Yes	234	2	0.1	0	20.6	0	0	-0.76	0	0	0	21.5	0	0	-0.753	0	0	0	21.5	0	0
12/17/2018[2]	29.62	45	Yes	100	2	0.1	0	20.3	0	0	Inaccessible							Inaccessible						
2/4/2019[3]	30	55	Yes	-	-	-	-	-	-	-	Inaccessible							-0.728	0	0	0	20.6	0	0
3/15/19-4/3/2019[4]	29.80/29.90	67/63	Yes	645	0	0	0	20.3	1.1	0.6	Inaccessible							-0.853	0.5	0.1	0	20.5	0.2	0.1
6/13/2019	29.68	71	Yes	83	0	0	0	21.3	0	0	-0.946	0	0	0	21.5	0	0	-0.952	0	0	0	21.4	0	0
9/4/2019	29.94	80	Yes	39	0	0	0	20.3	0	0	-0.945	0	0	0	20.5	0	0	-0.93	0	0	0	20.7	0	0
1/8/2020	30.03	36	Yes	31	0	0	0	20.2	0	0	Inaccessible							Inaccessible						
4/7/2020	29.94	53	Yes	250-800	0	0	0	21.3	0	0	Inaccessible							Inaccessible						
6/29/2020	29.83	75	Yes	400-700	0	0	0	20.6	0	0	-0.894	0	0	0	20.9	0	0	-0.893	0	0	0	20.8	0	0
9/24/2020	29.94	64	Yes	250-400	0	0	0	20.4	0	0	-0.895	0	0	0	20.9	0	0	-0.909	0	0	0	20.9	0	0
12/15/2020	30.26	39	Yes	350-600	0	0	0	20.9	0	0	-0.937	0	0	0	21.5	0	0	-0.95	0	0	0	21.1	0	0
3/22/2021	320.38	46	Yes	350-600	0	0	0	20.5	0	0	-0.718	0	0	0	21.3	0	0	-0.726	0	0	0	21.3	0	0
6/28/2021	30.2	86	Yes	200-700	0	0	0	20.5	0	0	-0.66	0	0	0	21.2	0	0	-0.801	0	0	0	21	0	0
9/28/2021	29.81	70	Yes	250-400	0	0	0	21.3	0	0	-0.904	0	0	0	21.1	0	0	-0.906	0	0	0	21.2	0	0
12/20/2021	30.28	28	Yes	300-500	0	0	0	21.4	0	0	-0.623	0	0	0	21.1	0.1	0	-0.723	0	0	0	21	0	0
3/16/2022	30.2	55	Yes	350-600	0	0	0	21.2	0	0	-0.775	0	0	0	21.5	0	0	-0.769	0	0	0	20	0	0
6/28/2022	30.04	67	Yes	230-330	0	0	0	19.7	0	0	-0.933	0	0	0	20.4	0	0	-0.931	0	0	0	20.5	0	0
9/20/2022	29.85	70	Yes	35	0	0	0	22.3	0	0	-0.896	0	0	0	22	0	0	-0.153	0	0	0	21.8	0	0
12/6/2022	30.25	50	Yes	22.15	0	0	0	20.4	0	0	-0.764	0	0	0	20.6	0	0	-0.705	0	0	0	20.5	0	0
3/28/2023	30.05	52	Yes	0.450	2	0.1	0	21.3	0.2	0.1	-0.729	2	0.1	0	21.2	0.3	0.2	-0.678	2	0.1	0	21.1	0.3	0.2

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Cart Storage Barn													
				MP-3							MP-4						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
4/19/2017	30.51	55	Yes	-0.926	0	0	0	21.2	0	0	-0.932	0	0	0	21.1	0	0
6/19/2017	29.79	80	Yes	-0.943	0	0	0	20.7	0	0	-0.93	0	0	0	20.7	0	0
9/22/2017	29.93	75	Yes	-0.91	0	0	0	21.2	0	0	-0.905	0	0	0	21.1	0	0
12/20/2017[1]	29.9	45	Yes	-0.745	2	0.1	2	23.7	0	0	-0.731	2	0.1	2	23.6	0	0
3/28/2018	30.03	55	Yes	-0.926	0	0	0	21.2	0	0	-0.932	0	0	0	21.1	0	0
6/25/2018	30.03	70	Yes	-0.905	2	0.1	2	20.5	0	0	-0.91	2	0.1	2	20.5	0	0
9/27/2018	30.3	60	Yes	-0.756	0	0	0	21.5	0	0	-0.764	0	0	0	21.3	0	0
12/17/2018[2]	29.62	45	Yes	Inaccessible							Inaccessible						
2/4/2019[3]	30	55	Yes	Inaccessible							-0.733	0	0	0	20.8	0	0
3/15/19-4/3/2019[4]	29.80/29.90	67/63	Yes	Inaccessible							-0.834	0.5	0.1	0	20.6	0.1	0.1
6/13/2019	29.68	71	Yes	-0.948	0	0	0	21.3	0	0	-0.944	0	0	0	21.4	0	0
9/4/2019	29.94	80	Yes	-0.929	0	0	0	20.5	0	0	-0.943	0	0	0	20.5	0	0
1/8/2020	30.03	36	Yes	Inaccessible							Inaccessible						
4/7/2020	29.94	53	Yes	-0.905	0	0	0	21.5	0.1	0	-0.908	0	0	0	21.3	0.1	0
6/29/2020	29.83	75	Yes	-0.894	0	0	0	20.9	0	0	-0.894	0	0	0	20.9	0	0
9/24/2020	29.94	64	Yes	-0.904	0	0	0	20.9	0	0	-0.896	0	0	0	20.9	0	0
12/15/2020	30.26	39	Yes	-0.929	0	0	0	20.9	0	0	-0.985	0	0	0	20.5	0	0
3/22/2021	30.38	46	Yes	-0.733	0	0	0	21.6	0	0	-0.73	0	0	0	21.5	0	0
6/28/2021	30.2	86	Yes	-0.011	0	0	0	20.9	0	0	-0.013	0	0	0	21	0	0
9/28/2021	29.81	70	Yes	-0.888	0	0	0	21.2	0	0	-0.898	0	0	0	21.2	0	0
12/20/2021	30.28	28	Yes	Inaccessible							-0.718	0	0	0	21	0	0
3/16/2022	30.2	55	Yes	-0.861	0	0	0	20.9	0	0	-0.733	0	0	0	21.5	0	0
6/28/2022	30.04	67	Yes	-0.904	0	0	0	20.5	0	0	-0.929	0	0	0	20.5	0	0
9/20/2022	29.85	70	Yes	-0.907	0	0	0	22.4	0	0	-1.11	0	0	0	22.3	0	0
12/6/2022	30.25	50	Yes	Inaccessible							-0.781	0	0	0	20.2	0	0
3/28/2023	30.05	52	Yes	-0.717	2	0.1	0	21.3	0.5	0.3	-0.721	2	0.1	0	21.4	0.6	0.2

Notes:
"WC - Inches of Water
"Hg - inches of mercury
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figure 5 for locations)
cfm - cubic feet per minute
NM - not measured
% O_2 - percent oxygen
°F - degrees Fahrenheit
[1]Ambient % O2 reading of 23.5% due to inability to field calibrate GEM5000 oxygen sensor
[2]Sub-Slab monitoring points all inaccessible due to golf carts being stored for winter
[3]Only Subslab monitoring points MP-2 and MP-4 were accessible during remobilization on 2/4/2019
[4]Blower was accessible on 3/15/2019. Only Subslab monitoring points MP-2 and MP-4 were accessible during remobilization on 4/3/2019

Table 2E
Comparison of OM Data - Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Golf Course Clubhouse
Ferry Point Park, Bronx, NY

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Golf Course Clubhouse Building																										
				MP-1							MP-2							MP-3							MP-4						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
6/7/2018[1]	30.1	70	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/27/2018	29.94	55	Yes	-1.555	0	0	0	20.4	0.8	0.7	-	-	-	-	-	-	-	-0.247	0	0	0	16	0.1	0	-1.494	0	0	0	21.1	0.3	0.1
12/17/2018	29.73	45	Yes	-1.187	0	0	0	20.3	0	0	-	-	-	-	-	-	-	-1.749	0	0	0	17	0	0	-1.133	0	0	0	20.7	0	0
3/15/2019	29.63	62	Yes	-1.174	0	0	0	20.3	1	1	-	-	-	-	-	-	-	-0.593	0	0	0	18.4	1.2	1.4	-1.099	0	0	0	20	1.4	1.6
6/13/2019	29.78	88	Yes	-1.322	0	0	0	21.1	0	0	-	-	-	-	-	-	-	-0.013	0	0	0	21.4	0	0	-1.226	0	0	0	21.2	0	0.2
9/4/2019	29.97	28	Yes	-1.338	0	0	0	20.5	0	0	-	-	-	-	-	-	-	-1.476	0	0	0	20	20	0	-1.286	0	0	0	20.4	0	0
1/8/2020	30.03	35	Yes	-1.121	0	0	0	20	0	0.1	-	-	-	-	-	-	-	-0.965	0	0	0	19.6	0	0.1	-1.061	0	0	0	19.9	0	0.4
4/7/2020	29.97	53	Yes	-1.145	8	0.4	0	18.2	0	0	-	-	-	-	-	-	-	0.325/0.237/0.069[2]	0	0	0	20.7	0	0	-1.063	0	0	0	20.9	0	0
6/29/2020	29.83	70	Yes	-1.236	0	0	0	18.7	0	0	-	-	-	-	-	-	-	-0.041	0	0	0	19.2	0	0	-1.155	0	0	0	20.5	0	0
9/24/2020	29.94	64	Yes	-1.257	0	0	0	19.8	0	0	-	-	-	-	-	-	-	-0.023	0	0	0	20.3	0	0	-1.153	0	0	0	20.8	0	0
12/15/2020	30.26	39	Yes	-1.27	0	0	0	21	0	0	-	-	-	-	-	-	-	-0.519	0	0	0	20.8	0	0	-1.102	0	0	0	21.5	0	0
3/22/2021	30.32	46	Yes	-0.89	0	0	0	18.9	0	0	-	-	-	-	-	-	-	0.008	0	0	0	21.4	0	0	-0.948	0	0	0	21.4	0	0
6/28/2021	30.19	78	Yes	-0.88	18	0.9	0	17.9	0	0	-	-	-	-	-	-	-	0.159	0	0	0	20.8	0	0	-0.617	0	0	0	20.7	0	0
9/28/2021	29.81	72	Yes	-0.704	18	0.9	0	21.2	0	0	-	-	-	-	-	-	-	-0.005	0	0	0	21.1	0	0	-0.381	0	0	0	21	0	0
12/20/2021	30.29	28	Yes	-0.606	8	0.4	0	20.6	0	0	-	-	-	-	-	-	-	-0.006	0	0	0	21.7	0	0	-0.264	0	0	0	21.5	0	0
3/16/2022	30.2	55	Yes	-0.591	0	0	0	20	0	0	-	-	-	-	-	-	-	-0.168	0	0	0	20.3	0	0	-0.169	0	0	0	20.5	0	0
3/31/2022	30.56	29	Yes	-0.586	0	0	0	21.8	0	0	-0.022	0	0	0	21.9	0	0	-0.015	0	0	0	19.9	0	0	-0.17	0	0	0	21.6	0	0
6/28/2022	30.04	67	Yes	-0.6	14	0.7	0	16.3	0	0	-0.003	0	0	0	20.2	0	0	-0.001	0	0	0	20.2	0	0	-0.147	0	0	0	20.3	0	0
7/20/2022	29.77	85	Yes	NM	NM	NM	NM	NM	NM	NM	-0.073	NM	NM	NM	NM	NM	NM	-0.638	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/20/2022	29.85	70	Yes	-0.063	0	0	0	22.7	0	0	-0.011	0	0	0	23.2	0	0	-0.513	0	0	0	23.4	0	0	-0.162	0	0	0	23.5	0	0
12/6/2022	30.25	50	Yes	-0.42	14	0.7	0	18.5	0	0	0.04	0	0	0	21	0	0	-0.818	0	0	0	20.4	0	0	-0.13	0	0	0	20.9	0	0
3/28/2023	30.05	52	Yes	-0.427	2	0.1	0	21.5	0.2	0.1	-0.002	2	0.1	0	21.3	0.1	0.4	-2.55	2	0.1	0	20.9	0.2	0.4	-0.063	2	0.1	0	21.1	0.1	0.2

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Golf Course Clubhouse Building																										
				MP-5							MP-6							MP-7							MP-8						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
6/7/2018[1]	30.1	70	Yes	-1.149	NM	NM	0	NM	0	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/27/2018	29.94	55	Yes	-0.033	0	0	0	21.2	0	0	-1.587	0	0	0	21	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-
12/17/2018	29.73	45	Yes	-0.014	0	0	0	20.6	0	0	-1.217	0	0	0	20.6	0	0	-	-	-	-	-	-	-	-1.131	0	0	0	20.4	0	0
3/15/2019	29.63	62	Yes	-0.009	0	0	0	19.4	1.8	1.8	-1.185	0	0	0	20.2	1.8	1.8	-	-	-	-	-	-	-	-1.084	0	0	0	20	1.4	1.4
6/13/2019	29.78	88	Yes	-0.018	0	0	0	21.1	0	0.3	-1.312	0	0	0	21.1	0	0	-	-	-	-	-	-	-	-1.195	0	0	0	21.2	0	0
9/4/2019	29.97	78	Yes	-0.019	0	0	0	20.6	0	0	-1.319	0	0	0	20.7	0	0	-1.341	0	0	0	20.4	6	0	-1.271	0	0	0	20.5	0	0
1/8/2020	30.03	35	Yes	-0.02	0	0	0	20	0	0.4	-1.196	0	0	0	20.3	0	0	-1.201	0	0	0	19.7	0.1	0.2	-1.092	0	0	0	19.7	0	0
4/7/2020	29.97	53	Yes	-0.005	0	0	0	20.7	0	0	-1.21	0	0	0	20.6	0	0	-1.137	0	0	0	20.6	0	0	-1.062	0	0	0	20.7	0	0
6/29/2020	29.83	70	Yes	-0.002	0	0	0	20.8	0	0	-1.305	0	0	0	20.9	0	0	-1.1223	0	0	0	20.6	0	0	-1.138	0	0	0	20.6	0	0
9/24/2020	29.94	64	Yes	-0.01	0	0	0	20.8	0	0	-1.304	0	0	0	20.7	0	0	-1.237	0	0	0	20.7	0	0	-1.144	0	0	0	20.7	0	0
12/15/2020	30.26	39	Yes	-0.027	0	0	0	20.8	0	0	-1.296	0	0	0	20.7	0	0	-1.261	0	0	0	21.2	0	0	-1.237	0	0	0	21.1	0	0
3/22/2021	30.32	46	Yes	-0.001	0	0	0	21.4	0	0	-0.679	0	0	0	21.4	0	0	-0.872	0	0	0	21.4	0	0	-0.675	0	0	0	21.4	0	0
6/28/2021	30.19	78	Yes	-0.902	0	0	0	21	0	0	-0.876	0	0	0	20.8	0	0	-0.869	0	0	0	21	0	0	-0.571	0	0	0	20.8	0	0
9/28/2021	29.81	72	Yes	-0.014	0	0	0	21.1	0	0	-0.761	0	0	0	21.2	0	0	-0.858	0	0	0	21.1	0	0	-0.266	0	0	0	21.2	0	0
12/20/2021	30.29	28	Yes	-0.009	0	0	0	21.1	0	0	-0.629	0	0	0	21.1	0	0	-0.587	0	0	0	20.9	0	0	-0.222	0	0	0	21.2	0	0
3/16/2022	30.2	55	Yes	-0.019	0	0	0	20.7	0	0	-0.719	0	0	0	20.5	0	0	-0.594	0	0	0	21	0	0	-0.23	0	0	0	20.3	0	0
3/31/2022	30.56	29	Yes	-0.022	0	0	0	20.8	0	0	-0.75	0	0	0	21.2	0	0	-0.538	0	0	0	20.8	0	0	-0.217	0	0	0	21.2	0	0
6/28/2022	30.04	67	Yes	0	0	0	0	20.3	0	0	-0.59	0	0	0	20.3	0	0	-0.556	0	0	0	20.3	0	0	-0.168	0	0	0	20.4	0	0
7/20/2022	29.77	85	Yes	-2.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/20/2022	29.85	70	Yes	-0.004	0	0	0	23.1	0	0	-0.664	0	0	0	23.1	0	0	-0.601	0	0	0	23.1	0	0	-0.151	0.1	0	0	23.5	0	0
12/6/2022	30.25	50	Yes	0.07	0	0	0	21.1	0	0	-0.455	0	0	0	21.1	0	0	-0.395	0	0	0	21.1	0	0	-0.142	0	0	0	20.8	0	0
3/28/2023	30.05	52	Yes	-0.003	2	0.1	0	21.7	0.1	0.4	-0.439	4	0.2	0	22.0	0.1	0.3	-0.406	4	0.2	0	22.0	0.1	0.2	-0.055	2	0.1	0	20.9	0.3	0.4

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Golf Course Clubhouse Building												
				MP-9							MP-10					
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
6/7/2018[1]	30.1	70	Yes	-	-	-	-	-	-	-	-1.491	NM	NM	0	NM	0	NM
9/27/2018	29.94	55	Yes	-1.485	0	0	0	21	0	0							
12/17/2018	29.73	45	Yes	-1.115	0	0	0	20.3	0	0	-1.124	0	0	0	20.5	0	0
3/15/2019	29.63	62	Yes	-1.095	0	0	0	19.4	1.5	1.6	-1.087	0	0	0	19.9	1.5	1.6
6/13/2019	29.78	88	Yes	-1.157	0	0	0	21.2	0.1	0.1	-1.183	0	0	0	21.2	0	0
9/4/2019	29.97	78	Yes	-1.253	0	0	0	20.4	0	0	-1.258	0	0	0	20.5	0	0
1/8/2020	30.03	35	Yes	-1.049	0	0	0	19.6	0	0.2	-1.089	0	0	0	19.8	0	1.5
4/7/2020	29.97	53	Yes	-1.03	0	0	0	20.6	0	0	-1.057	0	0	0	20.6	0	0
6/29/2020	29.83	70	Yes	-1.116	0	0	0	20.5	0	0	-1.1201	0	0	0	20.3	0	0
9/24/2020	29.94	64	Yes	-1.115	0	0	0	20.6	0	0	-1.125	0	0	0	20.5	0	0
12/15/2020	30.26	39	Yes	-1.084	0	0	0	21.5	0	0	-1.197	0	0	0	21.4	0	0
3/22/2021	30.32	46	Yes	-0.506	0	0	0	21.4	0	0	-0.694	0	0	0	20.9	0	0
6/28/2021	30.19	78	Yes	-0.578	0	0	0	20.5	0	0	-0.58	0	0	0	19.7	0	0
9/28/2021	29.81	72	Yes	-0.246	0	0	0	21	0	0	-0.381	0	0	0	21.3	0	0
12/20/2021	30.29	28	Yes	-0.19	0	0	0	21.3	0	0	-0.192	0	0	0	21.4	0	0
3/16/2022	30.2	55	Yes	-0.187	0	0	0	20.2	0	0	-0.199	0	0	0	21	0	0
3/31/2022	30.56	29	Yes	-0.159	0	0	0	21.3	0	0	-0.22	0	0	0	21.2	0	0
6/28/2022	30.04	67	Yes	-0.14	0	0	0	20.3	0	0	-0.128	0	0	0	20.3	0	0
7/20/2022	29.77	85	Yes	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/20/2022	29.85	70	Yes	-0.013	0	0	0	23.4	0	0	-0.11	0	0	0	23.4	0	0
12/6/2022	30.25	50	Yes	-0.125	0	0	0	20.7	0	0	-0.1	0	0	0	20.1	0	0
3/28/2023	30.05	52	Yes	-0.056	2	0.1	0	20.9	0.2	0.2	-0.069	2	0.1	0	21.0	0.2	0.3

Notes:
"WC - Inches of Water
"Hg - inches of mercury
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figure 6 for locations)
cfm - cubic feet per minute
NM - not measured
% O_2 - percent oxygen
°F - degrees Fahrenheit
[1] System only partially installed
[2]Data Collected from three separate Site Visits: April 7, 2020 = +0.325; April 28, 2020 = +0.237 ; May 12, 2020 = -0.069

July 17, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Re: Quarterly Sub-Slab Depressurization System (SSDS) Monitoring - Quarter 2, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

Dear Ms. Catalanotto:

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the SSDS infrastructure monitoring event conducted on June 26, 2023, at the Ferry Point Park Golf Course and Community Park. Quarterly sub-slab depressurization (SSD) and combustible gas (CG) monitoring system operations, maintenance, and monitoring (OM&M) is performed in compliance with the NYSDEC Permit No. 2-6006-00014/00013, the October 2013 *Post Construction Custodial Care Plan*, the October 2013 *Landfill Gas Management Plan*, and the site-specific OM&M Manual.

The following locations are included in the SSDS and/or CG OM&M:

- Community Park Comfort Station (CPCS);
- Golf Course Maintenance Building (Maintenance Building):
- Golf Course Comfort Station (GCCS);
- Golf Course Cart Storage Barn (Cart Barn); and
- Golf Course Clubhouse (Clubhouse).

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

Summary of OM&M Inspection Activities

SSD and CG monitoring systems OM&M activities included visual inspections and collection of oxygen, organic vapor, and methane (percent methane by volume, percent lower explosive limit [LEL]) readings from beneath the building slabs. In locations with sub-slab monitoring points, sub-slab pressure was measured to determine if the SSDS is creating a negative pressure beneath the structures. The location of on- and off-Site buildings with SSD and CG systems are depicted on Figure 1, and the system layout and components for each building are depicted on Figure 2 through 6.

OM&M Observations and Results

Community Park Comfort Station (CPCS)

OM&M was performed at the CPCS on June 26, 2023, which included the collection of sub-slab pressure CG readings, inspection of the SSDS to verify it was operational, as well as a review of the real-time data at the CG sensor. Table 1 contains a summary of the OM&M visit results, with historical data presented on Table 2A. Below is a summary of the observations made during the CPCS monitoring event:

- The SSD and CG systems were operational during, and prior to, the Q2 monitoring event;
- The combustible gas data logging system was online, operational and transmitting data to the central datalogging panel, registering the ambient readings of 0.0% LEL;
- Low levels of volatile organic compounds (VOCs) were detected within and under the building;
- No methane was detected under the building;
- Sub-slab pressure measurements collected from the sub-slab monitoring points (Figure 2) during the Q2 monitoring event indicated that the SSDS was generating negative pressure beneath the building slab. The pressure gradient was positive during the last three quarterly reports; the Q2 2023 reading was greater than previous negative pressure readings in the building. No methane was detected at MP-1, compared to 0.1% detected in Q1 2023.

Golf Course Maintenance Building (Maintenance Building)

OM&M performed at the Maintenance Building included the inspection of the SSDS to verify it was operational, collection of sub-slab pressure CG readings, and

review of the real-time data at the CG sensor. A summary of the Q2 monitoring results is presented on Table 1, with historical data presented on Table 2B. Below is a summary of the observations denoted at the Maintenance Building during the OM&M event:

- The SSD and CG systems were operational during, and prior to, the Q2 monitoring event;
- The combustible gas data logging system was online, operational and transmitting data to the central datalogging panel, registering the ambient readings of 0.0% LEL;
- Low levels of volatile organic compounds (VOCs) were detected within and under the Maintenance Building;
- No methane was detected under the building;
- Sub-slab pressure measurements collected from the sub-slab monitoring points (Figure 3) during the Q2 monitoring event indicated that the SSDS was generating negative pressure beneath the building slab. The negative pressure was greater than Q1 2023, and similar to that of July 2022. The methane LEL detected at MP-1 through MP-3 was lesser than that of Q1 2023.

Golf Course Comfort Station (GCCS)

GCCS monitoring included the review of the real-time data at the CG sensor, the inspection of the SSDS to verify it was operational, and collection of sub-slab pressure CG readings. Table 1 contains a summary of the OM&M visit results, with historical data presented on Table 2C. Below is a summary of the observations made at the GCCS during the OM&M event:

- The SSD and CG systems were operational prior to and during the Q2 monitoring event;
- The combustible gas data logging system was online, operational and transmitting data to the central datalogging panel, registering the ambient readings of 0.0% LEL;
- Low levels of volatile organic compounds (VOCs) were detected within and under the building;
- No methane was detected under the station;

- Sub-slab pressure measurements collected from the three sub-slab monitoring points (Figure 4) during the Q2 monitoring event indicated that the SSDS is generating negative pressure beneath the slab. The vacuum pressure recorded at MP-1 through MP-3 was significantly lower than that of Q1 2023, however they are consistent with historical data.

Golf Course Cart Storage Barn (Cart Barn)

OM&M performed at the Cart Barn included the inspection of the SSDS to verify it was operational, collection of sub-slab pressure CG readings, and review of the real-time data at the CG sensor. A summary of the Q2 monitoring results is presented on Table 1, with historical data presented on Table 2D. Below is a summary of the observations made during the OM&M event at the Cart Barn:

- The SSD and CG systems were operational during, and prior to, the Q2 monitoring event;

- The combustible gas data logging system was online, operational and transmitting data to the central datalogging panel, registering the ambient readings of 0.0% LEL;

- Low levels of volatile organic compounds (VOCs) were detected within and under the building;

- No methane was detected under the Cart Barn;

- Sub-slab pressure measurements collected from MP-1, MP-3 and MP-4 sub-slab monitoring points (Figure 5) during the Q2 monitoring event indicated that the SSDS was generating a negative pressure beneath the building slab, consistent with historical data. MP-2 displayed a positive pressure gradient, dissimilar to previous collection events. Oxygen was also abnormally low, (detected at 1.8% compared to 21.1% in Q1 2023) possibly associated with the positive pressure gradient. The flow pressure measured at the blower continues to be lower than historical OM&M events, similar to Q1 2023.

Golf Course Clubhouse (Clubhouse)

The Clubhouse OM&M event included the review of the real-time data at the CG sensor, the inspection of the SSDS to verify it was operational, and collection of sub-slab pressure CG readings. Table 1 contains a summary of the OM&M visit results, with historical data presented on Table 2E. Below is a summary of the observations made at the Clubhouse during the monitoring event:

- The SSD and CG systems were operational prior to and during the Q2 monitoring event;
- The combustible gas data logging system was online, operational and transmitting data to the central datalogging panel, registering the ambient readings of 0.0% LEL;
- Low levels of volatile organic compounds (VOCs) were detected within and under the building at all ten monitoring point locations;
- No methane was detected underneath the Clubhouse;
- Sub-slab pressure measurements collected from eight of the ten sub-slab monitoring points (Figure 6) during the Q2 monitoring event indicated that the SSDS is generating negative pressure beneath the slab, consistent with measurements collected during previous events. MP-3 and MP-5 displayed positive pressure gradients, which has occurred in previous monitoring events.

Conclusions and Recommendations

From the Quarter 2 OM&M event, the results confirm that the SSD and GC systems are operational. Sub-slab pressure readings collected from the on- and off-Site monitoring points indicated that the SSDS in the Golf Course Comfort Station, Community Park Comfort Station, Golf Course Cart Storage Barn, Golf Course Maintenance Building and Golf Course Clubhouse are creating a negative pressure gradient beneath the building slabs. Certain monitoring points did not demonstrate negative pressure conditions; however, other monitoring points within the buildings were displaying negative pressures and only low levels of volatile organic compounds (VOCs) were detected within the buildings.

All CG sensors were communicating with their respective control panels and registered ambient methane readings of 0.0% LEL. The main datalogging panel, located in the Golf Course Maintenance Building, is receiving data from the Golf Course Cart Barn, Golf Course Clubhouse, Community Park and Golf Course Comfort Stations, and Golf Course Maintenance Building. Combustible gas data is accessed remotely, reviewed and downloaded periodically. Methane readings from the CG sensor data are monitored and downloaded periodically, and no alarm conditions have been registered.

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – SSD and CG System Locations
Figure 2 – Community Park Comfort Station
Figure 3 – Golf Course Maintenance Building
Figure 4 – Golf Course Comfort Station
Figure 5 – Golf Course Cart Storage Barn
Figure 6 – Golf Course Clubhouse
Table 1 - Summary of 2023 Q2 OM&M Data
Table 2A - Comparison of Community Park Comfort Station OM&M Data
Table 2B - Comparison of Golf Course Maintenance Building OM&M Data
Table 2C - Comparison of Golf Course Comfort Station OM&M Data
Table 2D - Comparison of Golf Course Cart Storage Barn OM&M Data
Table 2E - Comparison of Golf Course Clubhouse OM&M Data

c: K. Zias, NYCDPR
K. McCarty, GEI

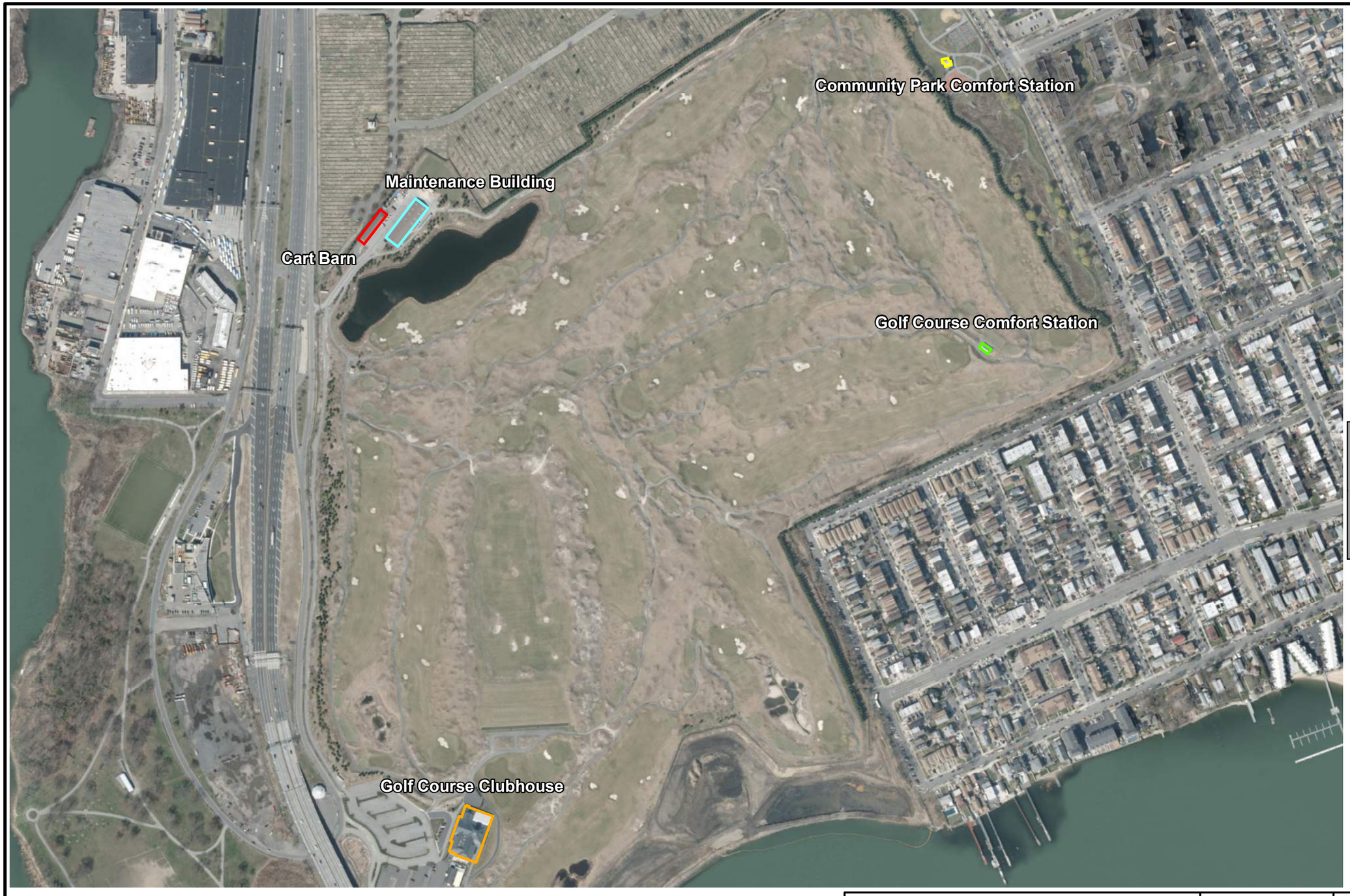

LEGEND

- Cart Barn
- Golf Course Comfort Station
- Maintenance Building
- Golf Course Clubhouse
- Community Park Comfort Station

SOURCE:
1. ESRI IMAGERY BASE MAP

0 300 600
SCALE: 1 " = 409 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

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SSD AND CG SYSTEM

Fig. 1

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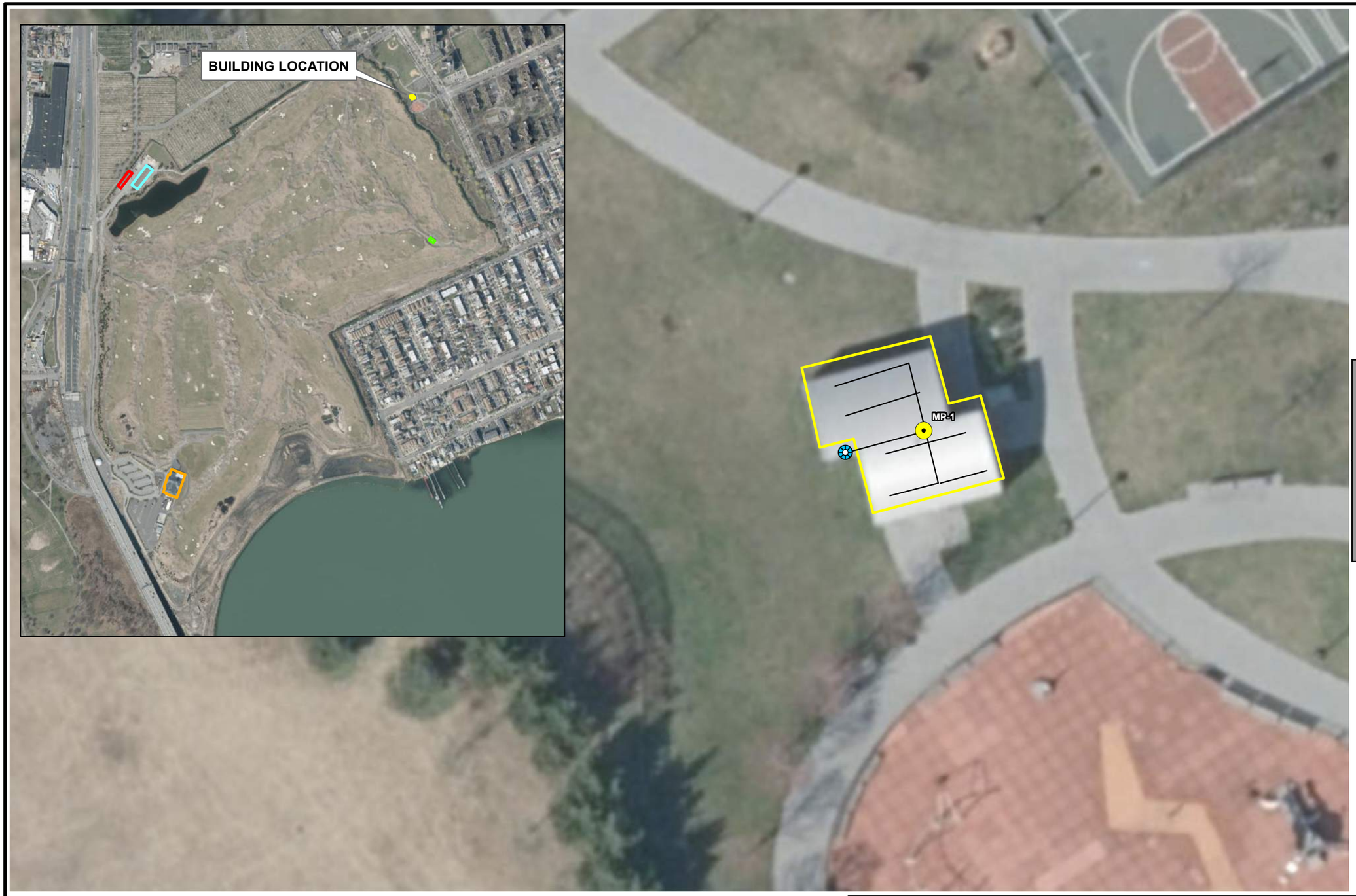

LEGEND

- Vertical Riser with Sampling Point
- Sub-Slab Monitoring Point
- SSDS Piping
- Cart Barn
- Golf Course Comfort Station
- Maintenance Building
- Golf Course Clubhouse
- Community Park Comfort Station

SOURCE:
1. ESRI IMAGERY BASE MAP

0 10 20
SCALE:1 " = 20 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

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COMMUNITY PARK
COMFORT STATION

Fig. 2

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LEGEND

- CG Control Panel
- Combustible Gas Meter
- Sub-Slab Depressurization Pit
- Sub-Slab Monitoring Point
- Vertical Riser
- SSDS Piping
- Cart Barn
- Golf Course Comfort Station
- Maintenance Building
- Golf Course Clubhouse
- Community Park Comfort Station

SOURCE:
1. ESRI IMAGERY BASE MAP

0 10 20
SCALE: 1 " = 27 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

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MAINTENANCE BUILDING

Fig. 3

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LEGEND

- Controller
- Exterior SSDS Monitoring Point
- Interior SSDS Monitoring Point
- Methane and H2S Sensor
- Methane Sensor
- 6" PVC
- Sub-Slab Depressurization Pit
- SSDS Piping
- Maintenance Building
- Cart Barn
- Golf Course Comfort Station
- Community Park Comfort Station
- Golf Course Clubhouse

SOURCE:
1. ESRI IMAGERY BASE MAP

0 6 12
SCALE: 1 " = 10 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

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GOLF COURSE COMFORT STATION

Fig. 4

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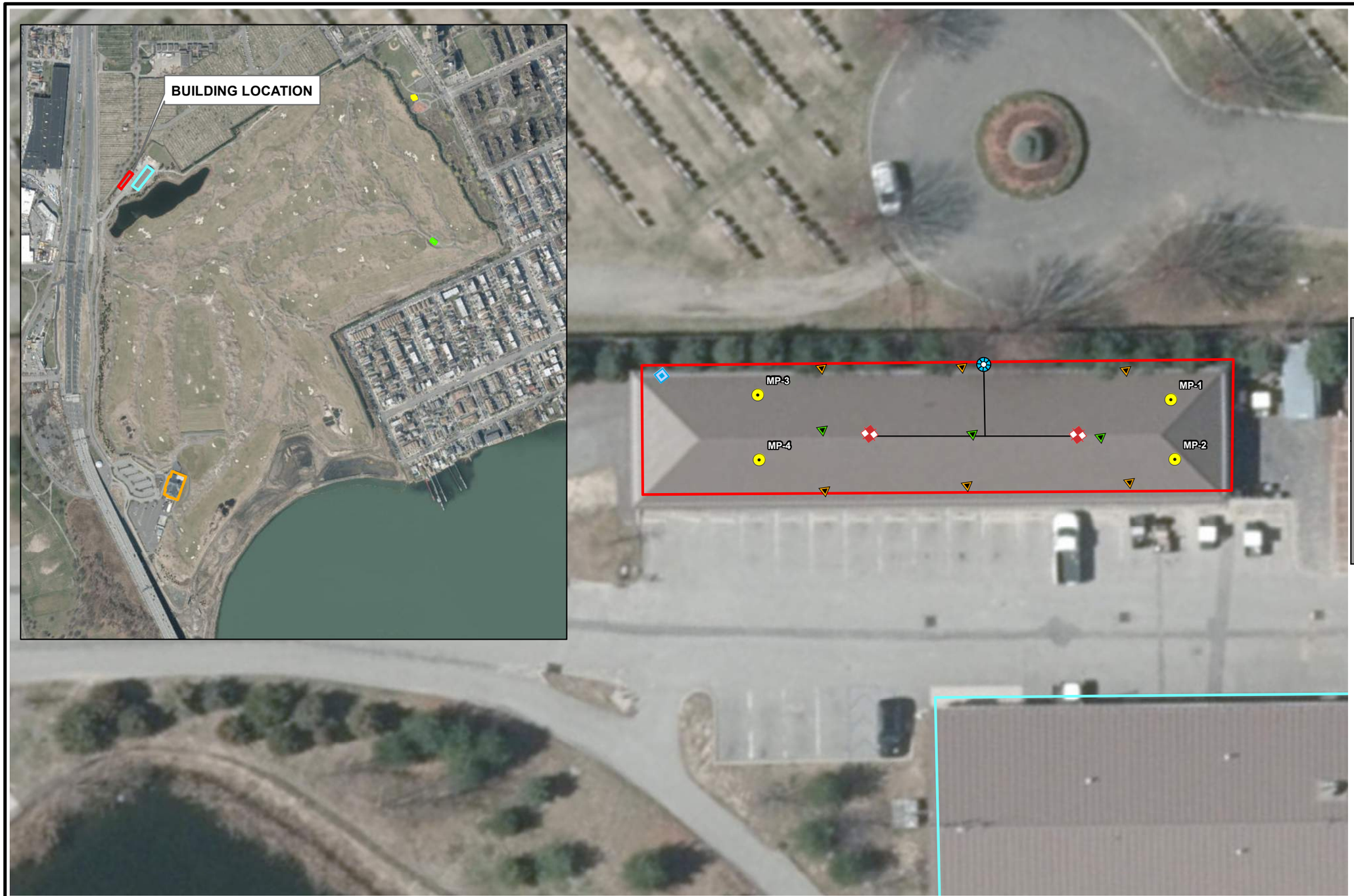

LEGEND

- Second Floor Combustible Gas (CG) Sensor
- First Floor CG Sensor
- Controller
- Vertical Riser
- Sub-Slab Depressurization Pit
- Sub-Slab Monitoring Point
- SSDS Piping
- Cart Barn
- Golf Course Comfort Station
- Maintenance Building
- Golf Course Clubhouse
- Community Park Comfort Station

SOURCE:
1. ESRI IMAGERY BASE MAP

0 10 20
SCALE: 1 " = 26 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

GEI Consultants

Project 2204594

CART BARN

Fig. 5

B:\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\Reports\SSDS\2023 Reports\Q1\Figure 5.mxd

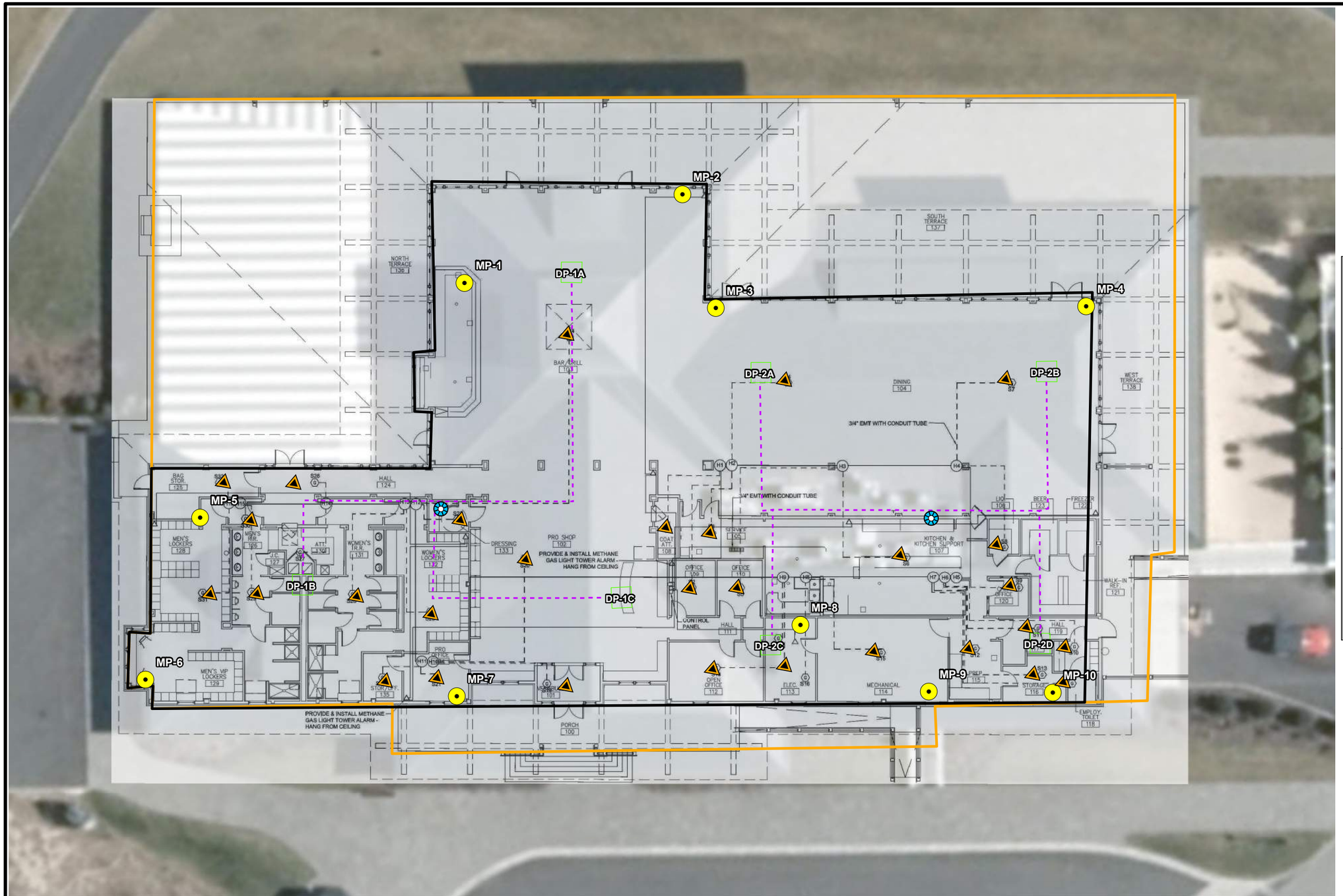

LEGEND

- Gas Sensor
- Suction Fan Vertical Riser
- Sub-Slab Monitoring Point
- SSDS Piping
- Depressurization Pit
- Maintenance Building
- Community Park Comfort Station
- Cart Barn
- Golf Course Comfort Station
- Interior Clubhouse
- Golf Course Clubhouse

SOURCE:
1. ESRI IMAGERY BASE MAP

0 10 20
SCALE: 1 " = 20 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

GEI Consultants

Project 2204594

GOLF COURSE CLUBHOUSE

Fig. 6

B:\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\Reports\SSDS\2023 Reports\Q1\Figure 6..mxd

Table 1
Summary of 2023 Q2 OM Data - Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Ferry Point Park, Bronx, NY

Sub-slab Depressurization (SSD) and Combustible Gas (CG) System Status	Community Park Comfort Station	Golf Course Maintenance Building			Golf Course Comfort Station			Cart Storage Barn					Golf Course Clubhouse Building									
Date	6/26/2023	6/26/2023			6/26/2023			6/26/2023					6/26/2023									
SSD System	Operational	Operational			Operational			Operational					Operational									
CG System	Operational	Operational			Operational			Operational					Operational									
CG System Alarm Status	No Alarm Conditions	No Alarm Conditions			No Alarm Conditions			No Alarm Conditions					No Alarm Conditions									
SSD/CG System OM&M Data	**MP-1**	**MP-1**	**MP-2**	**MP-3**	**MP-1**	**MP-2**	**MP-3**	**Blower**	**MP-1**	**MP-2**	**MP-3**	**MP-4**	**MP-1**	**MP-2**	**MP-3**	**MP-4**	**MP-5**	**MP-6**	**MP-7**	**MP-8**	**MP-9**	**MP-10**
Pressure ("WC)	-0.093	-2.436	-2.430	-2.293	-3.639	-3.721	-0.012	0.008	-0.903	0.007	-0.896	-0.919	-0.494	-0.016	0.375	-0.881	0.007	-0.434	-0.462	-0.051	-0.061	-0.066
LEL (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Methane By Volume (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ambient LEL (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oxygen (%)	21.9	21.6	21.6	1.5	21.7	21.8	21.9	21.7	21.5	1.8	21.7	21.7	21.9	22.0	22.0	22.2	22.0	22.0	22.0	21.5	20.6	21.9
Maximum Ambient PID (ppm)	0.2	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.2	0.1
Sub-Slab PID (ppm)	0.3	0.3	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.3	0.1	0.2	0.2	0.2	0.1

Notes:
"WC - Inches of Water
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figures 2 through 5 for locations)
cfm - cubic feet per minute
N/A - not applicable
NM - not measured
IA - inaccessible
*No pressure reading in blower however flow reading provided in cubic feet per minute (cfm)

Table 2A
Comparison of OM Data
Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Community Park Comfort Station
Ferry Point Park, Bronx, NY

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Community Park Comfort Station						
				MP-1						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
3/22/2017	30.14	37	Yes	Sub-slab monitoring point MP-1 installed on August 15, 2018						
6/19/2017	29.78	84	Yes							
9/22/2017	29.98	75	Yes							
12/20/2017[1]	29.84	45	Yes							
3/28/2018	30.04	50	Yes							
6/25/2018	30.03	70	Yes							
9/27/2018 and 10/3/2018	30.03	60	Yes	-0.14	0	0	0	21.3	0	0
12/17-18/2018[2]	29.62-29.94	45-35	Yes	0.003[3]	0	0	0	20.6	0	0
2/4/2019[4]	30	55	Yes	-0.012	0	0	0	20.7	0	0
3/14/2019	30.07	48	Yes	-0.009	0	0	0	20.7	0	0
6/27/2019	30.11	79	Yes	-0.013	0	0	0	19.7	0.2	0.7
9/4/2019	29.94	75	Yes	-0.018	0	0	0	20.5	0	0
1/8/2020	30.03	35	Yes	-0.009	0	0	0	20.3	0	0.1
4/28/2020	30.15	45	Yes	-0.003	0	0	0	21.3	0.1	0.1
6/29/2020	29.83	75	Yes	-0.03	0	0	0	20.7	0	0
9/24/2020	29.95	64	Yes	-0.067	0	0	0	20.9	0	0
12/14/2020	29.96	40	Yes	-0.011	0	0	0	21.5	0	0
3/22/2021	30.37	46	Yes	-0.004	0	0	0	22	0	0
6/28/2021	30.29	78	Yes	0.002	0	0	0	20.4	0.4	0.4
9/28/2021	29.81	71	Yes	-0.004	0	0	0	21.2	0	0
12/20/2021	30.29	27	Yes	-0.009	0	0	0	21.1	0	0
3/16/2022	30.2	55	Yes	-0.024	0	0	0	21.1	0	0
6/28/2022	30.04	67	Yes	-0.06	0	0	0	20.6	0	0
9/20/2022	29.85	70	Yes	0.06	0	0	0	22.2	0	0
12/6/2022	30.25	50	Yes	0.123	0	0	0	21	0	0
3/28/2023	30.05	52	Yes	0.012	2	0.1	0	21.6	0.1	0.2
6/26/2023	29.78	73	Yes	-0.093	0	0	0	21.9	0.2	0.3

Notes:
"WC - Inches of Water
"Hg - inches of mercury
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figure 2 for locations)
cfm - cubic feet per minute
N/A - not applicable
% O_2 - percent oxygen
°F - degrees Fahrenheit
[1]Ambient % Ox reading of 23.5% due to inability to field calibrate GEM5000 oxygen sensor
[2]Monitoring event split between two days due to access issues
[3]Vacuum fluctuated between +0.024 to -0.018. Average = +0.003
[4]Recheck to see if Vacuum is generating negative pressure at MP-1

Table 2B
Comparison of OM Data - Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Golf Course Maintenance Building
Ferry Point Park, Bronx, NY

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Golf Course Maintenance Building																				
				MP-1							MP-2							MP-3						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
3/22/2017	30.02	61.7	Yes	-0.112	0	0	0	20.7	8	0	-0.197	2	0.1	0	19.3	8	19	-0.153	>100	20.3	0	0	8	0
6/21/2017	29.91	70	Yes	-0.123	2	0.1	0	N/A	0	0	-0.090	0	0	0	20.6	0	0	-0.025	0	0	0	20.9	0.1	0.3
9/22/2017	29.93	75	Yes	-0.058	76	3.8	0	4.2	0	0	-0.031	2	0.1	0	19.3	0	0	-0.04	>100%	23.1	1	0	0	0.2
12/20/2017[1]	29.92	65	Yes	-0.089	44	2.2	0	13.3	0	0	-0.025	12	0.6	0	20.8	0	1	-0.056	>100%	24.6	0	0.4	0.1	0.2
3/28/2018	30.04	68	Yes	-2.800	0	0	0	21.1	0	0	-2.817	0	0	0	2.2[2]	0	0	Inaccessible						
6/25/2018	30.03	70	Yes	-2.768	2	0.1	2	19.8	0	0	-2.779	2	0.1	2	20.7	0	0	Inaccessible						
9/27/2018	30	57	Yes	-0.050	28	1.4	0	6.2	0	1	-0.074	0	0	0	20.4	0	0	-0.036	>100	7.7	0	1.2	0	0
12/17/2018	29.62	45	Yes	-0.077	44	2.2	0.1	10	0	0	-0.084	2	0.1	0.1	18.8	0	0	Inaccessible						
2/4/2019[3]	30	55	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-0.033	>100	15.2	0	1.3	0.4	0.3
3/15/2019	29.64	62	Yes	-0.054	44	2.2	0	12	1.5	1.5	-0.054	16	0.8	0	18.9	1.4	1.4	-0.063	>100	19.9	0	0.5	4.6	0
6/13/2019	29.63	77	Yes	-0.029	30	1.5	0	8.4	0.2	0.4	-0.022	30	1.5	0	11.3	0	0	-0.057	>100	17.7	0	0.4	0	0
9/4/2019	29.94	78	Yes	-2.650	0	0	0	20.6	0.1	0	-2.663	0	0	0	20.3	0	0	-2.666	0	0	0	15.9	0	0
1/8/2020	30.04	36	Yes	-2.710	0	0	0	20.3	0.1	0.2	-2.730	0	0	0	20.0	1.3	0.8	-2.729	0	0	0	16.2	0.6	0.8
4/7/2020	29.9	53	Yes	-2.679	0	0	0	21	0.4	0	-2.698	0	0	0	21.0	1.8	0	-2.704	0	0	0	21	0.4	0
6/29/2020	29.83	75	Yes	-2.605	0	0	0	20.6	0.2	0	-2.606	0	0	0	20.7	0	0	-2.602	0	0	0	16.1	0	0
9/24/2020	29.95	64	Yes	-1.570	0	0	0	20.8	0	0	-2.500	0	0	0	20.1	0	0	-1.92	0	0	0	20.9	0	0
12/15/2020	30.26	39	Yes	-1.892	0	0	0	21.1	0	0	-2.618	0	0	0	20.3	0	0	-2.005	0	0	0	21.3	0	0
3/22/2021	30.38	46	Yes	-2.517	0	0	0	21.2	0	0	-2.516	0	0	0	21.0	0	0	-2.621	0	0	0	21.6	0	0
6/28/2021	30.21	81	Yes	-2.541	0	0	0	20.1	0	0	-2.549	0	0	0	20.7	0	0	-2.542	0	0	0	17.5	0.2	0.2
9/28/2021	29.81	72	Yes	-2.604	0	0	0	21.6	0	0	-2.651	0	0	0	20.2	0	0.8	-2.611	0	0	0	21.4	0	0
12/20/2021	30.28	28	Yes	-1.957	0	0	0	20.9	0	0	-1.979	0	0	0	20.6	0	0	-1.968	0	0	0	20.6	0	0
3/16/2022	30.2	55	Yes	-2.143	0	0	0	20.9	0	0	-2.099	0	0	0	20.2	0	0	-2.159	0	0	0	20.6	0	0
6/28/2022	30.04	67	Yes	-0.030	0	0	0	15.2	0	0	-0.013	0	0	0	15.5	0	0	-0.023	0	0	0	9	0	0
7/20/2022	29.77	85	Yes	-2.417	0	0	0	NM	NM	NM	-2.430	0	0	0	NM	NM	NM	-2.432	0	0	0	NM	NM	NM
9/20/2022	29.85	70	Yes	-0.130	6	0.3	0	21.1	0	0	-0.302	0	0	0	21.4	0	0	-0.156	0	0	0	18.4	0	0
12/6/2022	30.25	50	Yes	-0.200	34	1.7	0	10.9	0	0.1	-0.010	0	0	0	4.8	0.7	0.7	-0.03	0	3.6	0	14.7	0.2	0.2
3/28/2023	30.05	52	Yes	-2.430	8	0.4	0	20.6	0.4	0.6	-1.863	2	0.1	0	21.0	0.7	0.5	-1.415	2	0.1	0	20.9	0.3	0.3
6/26/2023	29.78	73	Yes	-2.436	0	0	0	21.6	0.3	0.3	-2.430	0	0	0	21.6	0.1	0.1	-2.293	0	0	0	1.5	0	0

Notes:
"WC - Inches of Water
"Hg - inches of mercury
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figure 3 for locations)
cfm - cubic feet per minute
N/A - not applicable
NM - not measured
% O_2 - percent oxygen
°F - degrees Fahrenheit
[1]Ambient % Ox reading of 23.5% due to inability to field calibrate GEM5000 oxygen sensor
[2]Monitoring event conducted under ambient humid conditions
[3]Monitoring point MP-3 was not accessible during last quarter monitoring

Table 2C
Comparison of OM Data - Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Golf Course Comfort Station
Ferry Point Park, Bronx, NY

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Golf Course Comfort Station																					
				MP-1							MP-2							MP-3						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
3/22/2017	30.09	59.4	Yes	-5.371	2	0.1	0	21.6	0	0	Sub-slab monitoring point MP-2 installed on August 15, 2018							Sub-slab monitoring point MP-2 installed on August 15, 2018						
6/19/2017	29.81	84	Yes	-5	2	0.1	0	20.4	0	0														
9/22/2017	29.96	75	Yes	-4.8	0	0	0	21.1	0	0														
12/20/2017[1]	29.91	65	Yes	-5.095	2	0.1	2	23.5	0.1	0.1														
3/28/2018[2]	30.07	68	Yes	-0.038	0	0	0	21.2	80	0														
6/25/2018	30.03	75	Yes	-0.09	2	0.1	2	20.7	0	0														
9/27/2018	30	60	Yes	-0.023	0	0	0	21.7	0	0	-0.67	4	0.2	0	19.4	0	0	-0.024	2	0.1	0	21.4	0	0.2
12/17-18/2018[3]	29.59-29.91	40-35	Yes	-4.777	0	0	0	19.7	0	0	-5.532	2	0.1	0.1	22.6	0	0	-4.414	2	0.1	0.1	21.9	0	0
3/15/2019	29.65	64	Yes	-5.385	0	0	0	20.3	0.5	0.6	-5.596	0	0	0	20.3	0.5	0.1	-2.63	0	0	0	20.2	0.5	0
6/13/2019	29.62	77	Yes	-3.684	>100	13.5	0	11.1	3.5	399.1	-5.607	0	0	0	21.8	0	0	-5.409	2	0.1	0	18.9	0.3	0.4
9/4/2019	29.9	80	Yes	-3.21	0	0	0	19.1	0	0	-0.02	2	0	0	17	0	0	-6.116	6	0.3	0	15.6	0	0
1/8/2020	30.01	37	Yes	-5.923	0	0	0	19.9	0	0	-6.531	0	0	0	19.9	0	0	-4.931	0	0	0	18.3	0	0
4/7/2020	29.9	53	Yes	-5.49	0	0	0	21.4	0	0	-5.719	0	0	0	21.2	0	0	-1.476	0	0	0	20	0	0
6/29/2020	29.83	75	Yes	-6.165	0	0	0	20.9	0	0	-0.79	0	0	0	20.7	0	0	-6.392	0	0	0	20.8	0	0
9/24/2020	29.98	64	Yes	-0.016	0	0	0	20.7	0	0	-0.023	0	0	0	19.3	0	0	-0.013	0	0	0	18.5	0	0
12/14/2020	29.96	40	Yes	-1.848	0	0	0	22.3	0	0	-0.934	0	0	0	21.6	0	0	-0.178	0	0	0	21.6	0	0
3/22/2021	30.35	46	Yes	-0.002	0	0	0	21.3	0	0	0.002	0	0	0	21.2	0	0	0.171	0	0	0	21.1	0	0
6/28/2021	30.19	85	Yes	-6.894	0	0	0	20.7	0	0	-6.733	0	0	0	20.3	0	0	-0.72	0	0	0	20.1	0	0
9/28/2021	29.81	71	Yes	-0.182	0	0	0	21	0	1	-0.949	0	0	0	21	0	0	-0.137	0	0	0	21	0	0
12/20/2021	30.28	28	Yes	-4.668	0	0	0	21.1	0	0	-4.643	0	0	0	20.9	0	0	-3.713	0	0	0	20.8	0	0
3/16/2022	30.2	55	Yes	-7.148	0	0	0	21.2	0	0	-7.081	0	0	0	21.1	0	0	-6.231	0	0	0	19.9	0	0
6/28/2022	30.04	67	Yes	-5.647	0	0	0	20.1	0	0	-4.922	0	0	0	19.8	0	0	-0.074	0	0	0	19.6	0	0
9/20/2022	29.85	70	Yes	-6.183	0	0	0	20.1	0	0	-6.088	0	0	0	22	0	0	-0.667	0	0	0	21.8	0	0
12/6/2022	30.25	50	Yes	-5.818	0	0	0	21	0	0	-5.845	0	0	0	21.2	0	0	-4.075	0	0	0	21.1	0	0
3/28/2023	30.05	52	Yes	-5.567	4	0.2	0	21.9	0.1	0.1	-5.580	2	0.1	0	21.8	0	0.1	-0.816	4	0.2	0	21.5	0	0.2
6/26/2023	29.78	73	Yes	-3.639	0	0	0	21.7	0	0	-3.721	0	0	0	21.8	0	0.1	-0.012	0	0	0	21.9	0	0.1

Notes:
"WC - Inches of Water
"Hg - inches of mercury
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figure 4 for locations)
cfm - cubic feet per minute: Due to instrumentation malfunction this reading was collected in cfm instead of WC to ensure accuracy
NM - not measured
% O_2 - percent oxygen
°F - degrees Fahrenheit
[1]Ambient % O2 reading of 23.5% due to inability to field calibrate GEM5000 oxygen sensor
[2]Monitoring event conducted under ambient humid conditions
[3]Monitoring event split between two days due to access issues. MP-1 monitored 12/18/18; MP-2 and MP-3 monitored 12/17/18

Table 2D
Comparison of OM Data - Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Golf Course Cart Storage Barn
Ferry Point Park, Bronx, NY

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Cart Storage Barn																				
				Blower Effluent							MP-1							MP-2						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
4/19/2017	30.51	55	Yes	-	-	-	-	-	-	-	-0.819	0	0	0	20.8	0	0	-0.824	0	0	0	20.9	0	0
6/19/2017	29.79	80	Yes	357-410	0	0	0	20.9	0	0	-0.916	0	0	0	20.8	0	0	-0.915	0	0	0	20.8	0	0
9/22/2017	29.93	75	Yes	300-800	2	0.1	0	20.1	0	0	-0.92	0	0	0	21.2	0	0	-0.915	0	0	0	21.1	0	0
12/20/2017[1]	29.9	45	Yes	395	2	0.1	2	23.2	0	0	-0.741	0	0	0	23.8	0	0	-0.725	0	0	0	23.8	0	0
3/28/2018	30.03	55	Yes	635	0	0	0	21.8	0	0	-0.937	0	0	0	21.1	0	0	-0.938	0	0	0	21.1	0	0
6/25/2018	30.03	70	Yes	585	2	0.1	2	20.5	0	0	-0.905	2	0.1	2	20.4	0.5	0.1	-0.911	2	0.1	2	20.4	0	0
9/27/2018	30.3	62	Yes	234	2	0.1	0	20.6	0	0	-0.76	0	0	0	21.5	0	0	-0.753	0	0	0	21.5	0	0
12/17/2018[2]	29.62	45	Yes	100	2	0.1	0	20.3	0	0	Inaccessible							Inaccessible						
2/4/2019[3]	30	55	Yes	-	-	-	-	-	-	-	Inaccessible							-0.728	0	0	0	20.6	0	0
3/15/19-4/3/2019[4]	29.80/29.90	67/63	Yes	645	0	0	0	20.3	1.1	0.6	Inaccessible							-0.853	0.5	0.1	0	20.5	0.2	0.1
6/13/2019	29.68	71	Yes	83	0	0	0	21.3	0	0	-0.946	0	0	0	21.5	0	0	-0.952	0	0	0	21.4	0	0
9/4/2019	29.94	80	Yes	39	0	0	0	20.3	0	0	-0.945	0	0	0	20.5	0	0	-0.93	0	0	0	20.7	0	0
1/8/2020	30.03	36	Yes	31	0	0	0	20.2	0	0	Inaccessible							Inaccessible						
4/7/2020	29.94	53	Yes	250-800	0	0	0	21.3	0	0	Inaccessible							Inaccessible						
6/29/2020	29.83	75	Yes	400-700	0	0	0	20.6	0	0	-0.894	0	0	0	20.9	0	0	-0.893	0	0	0	20.8	0	0
9/24/2020	29.94	64	Yes	250-400	0	0	0	20.4	0	0	-0.895	0	0	0	20.9	0	0	-0.909	0	0	0	20.9	0	0
12/15/2020	30.26	39	Yes	350-600	0	0	0	20.9	0	0	-0.937	0	0	0	21.5	0	0	-0.95	0	0	0	21.1	0	0
3/22/2021	320.38	46	Yes	350-600	0	0	0	20.5	0	0	-0.718	0	0	0	21.3	0	0	-0.726	0	0	0	21.3	0	0
6/28/2021	30.2	86	Yes	200-700	0	0	0	20.5	0	0	-0.66	0	0	0	21.2	0	0	-0.801	0	0	0	21	0	0
9/28/2021	29.81	70	Yes	250-400	0	0	0	21.3	0	0	-0.904	0	0	0	21.1	0	0	-0.906	0	0	0	21.2	0	0
12/20/2021	30.28	28	Yes	300-500	0	0	0	21.4	0	0	-0.623	0	0	0	21.1	0.1	0	-0.723	0	0	0	21	0	0
3/16/2022	30.2	55	Yes	350-600	0	0	0	21.2	0	0	-0.775	0	0	0	21.5	0	0	-0.769	0	0	0	20	0	0
6/28/2022	30.04	67	Yes	230-330	0	0	0	19.7	0	0	-0.933	0	0	0	20.4	0	0	-0.931	0	0	0	20.5	0	0
9/20/2022	29.85	70	Yes	35	0	0	0	22.3	0	0	-0.896	0	0	0	22	0	0	-0.153	0	0	0	21.8	0	0
12/6/2022	30.25	50	Yes	22.15	0	0	0	20.4	0	0	-0.764	0	0	0	20.6	0	0	-0.705	0	0	0	20.5	0	0
3/28/2023	30.05	52	Yes	0.450	2	0.1	0	21.3	0.2	0.1	-0.729	2	0.1	0	21.2	0.3	0.2	-0.678	2	0.1	0	21.1	0.3	0.2
6/26/2023	29.78	73	Yes	0.008	0	0	0	21.7	0	0	-0.903	0	0	0	21.5	0	0.1	0.007	0	0	0	1.8	0	0

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Cart Storage Barn													
				MP-3							MP-4						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
4/19/2017	30.51	55	Yes	-0.926	0	0	0	21.2	0	0	-0.932	0	0	0	21.1	0	0
6/19/2017	29.79	80	Yes	-0.943	0	0	0	20.7	0	0	-0.93	0	0	0	20.7	0	0
9/22/2017	29.93	75	Yes	-0.91	0	0	0	21.2	0	0	-0.905	0	0	0	21.1	0	0
12/20/2017[1]	29.9	45	Yes	-0.745	2	0.1	2	23.7	0	0	-0.731	2	0.1	2	23.6	0	0
3/28/2018	30.03	55	Yes	-0.926	0	0	0	21.2	0	0	-0.932	0	0	0	21.1	0	0
6/25/2018	30.03	70	Yes	-0.905	2	0.1	2	20.5	0	0	-0.91	2	0.1	2	20.5	0	0
9/27/2018	30.3	60	Yes	-0.756	0	0	0	21.5	0	0	-0.764	0	0	0	21.3	0	0
12/17/2018[2]	29.62	45	Yes	Inaccessible							Inaccessible						
2/4/2019[3]	30	55	Yes	Inaccessible							-0.733	0	0	0	20.8	0	0
3/15/19-4/3/2019[4]	29.80/29.90	67/63	Yes	Inaccessible							-0.834	0.5	0.1	0	20.6	0.1	0.1
6/13/2019	29.68	71	Yes	-0.948	0	0	0	21.3	0	0	-0.944	0	0	0	21.4	0	0
9/4/2019	29.94	80	Yes	-0.929	0	0	0	20.5	0	0	-0.943	0	0	0	20.5	0	0
1/8/2020	30.03	36	Yes	Inaccessible							Inaccessible						
4/7/2020	29.94	53	Yes	-0.905	0	0	0	21.5	0.1	0	-0.908	0	0	0	21.3	0.1	0
6/29/2020	29.83	75	Yes	-0.894	0	0	0	20.9	0	0	-0.894	0	0	0	20.9	0	0
9/24/2020	29.94	64	Yes	-0.904	0	0	0	20.9	0	0	-0.896	0	0	0	20.9	0	0
12/15/2020	30.26	39	Yes	-0.929	0	0	0	20.9	0	0	-0.985	0	0	0	20.5	0	0
3/22/2021	30.38	46	Yes	-0.733	0	0	0	21.6	0	0	-0.73	0	0	0	21.5	0	0
6/28/2021	30.2	86	Yes	-0.011	0	0	0	20.9	0	0	-0.013	0	0	0	21	0	0
9/28/2021	29.81	70	Yes	-0.888	0	0	0	21.2	0	0	-0.898	0	0	0	21.2	0	0
12/20/2021	30.28	28	Yes	Inaccessible							-0.718	0	0	0	21	0	0
3/16/2022	30.2	55	Yes	-0.861	0	0	0	20.9	0	0	-0.733	0	0	0	21.5	0	0
6/28/2022	30.04	67	Yes	-0.904	0	0	0	20.5	0	0	-0.929	0	0	0	20.5	0	0
9/20/2022	29.85	70	Yes	-0.907	0	0	0	22.4	0	0	-1.11	0	0	0	22.3	0	0
12/6/2022	30.25	50	Yes	Inaccessible							-0.781	0	0	0	20.2	0	0
3/28/2023	30.05	52	Yes	-0.717	2	0.1	0	21.3	0.5	0.3	-0.721	2	0.1	0	21.4	0.6	0.2
6/26/2023	29.78	73	Yes	-0.896	0	0	0	21.7	0	0	-0.919	0	0	0	21.7	0	0

Notes:
"WC - Inches of Water
"Hg - inches of mercury
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figure 5 for locations)
cfm - cubic feet per minute
NM - not measured
% O_2 - percent oxygen
°F - degrees Fahrenheit
[1]Ambient % O2 reading of 23.5% due to inability to field calibrate GEM5000 oxygen sensor
[2]Sub-Slab monitoring points all inaccessible due to golf carts being stored for winter
[3]Only Subslab monitoring points MP-2 and MP-4 were accessible during remobilization on 2/4/2019
[4]Blower was accessible on 3/15/2019. Only Subslab monitoring points MP-2 and MP-4 were accessible during remobilization on 4/3/2019

Table 2E
Comparison of OM Data - Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Golf Course Clubhouse
Ferry Point Park, Bronx, NY

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Golf Course Clubhouse Building																											
				MP-1							MP-2							MP-3							MP-4						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
6/7/2018[1]	30.1	70	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/27/2018	29.94	55	Yes	-1.555	0	0	0	20.4	0.8	0.7	-	-	-	-	-	-	-	-0.247	0	0	0	16	0.1	0	-1.494	0	0	0	21.1	0.3	0.1
12/17/2018	29.73	45	Yes	-1.187	0	0	0	20.3	0	0	-	-	-	-	-	-	-	-1.749	0	0	0	17	0	0	-1.133	0	0	0	20.7	0	0
3/15/2019	29.63	62	Yes	-1.174	0	0	0	20.3	1	1	-	-	-	-	-	-	-	-0.593	0	0	0	18.4	1.2	1.4	-1.099	0	0	0	20	1.4	1.6
6/13/2019	29.78	88	Yes	-1.322	0	0	0	21.1	0	0	-	-	-	-	-	-	-	-0.013	0	0	0	21.4	0	0	-1.226	0	0	0	21.2	0	0.2
9/4/2019	29.97	28	Yes	-1.338	0	0	0	20.5	0	0	-	-	-	-	-	-	-	-1.476	0	0	0	20	20	0	-1.286	0	0	0	20.4	0	0
1/8/2020	30.03	35	Yes	-1.121	0	0	0	20	0	0.1	-	-	-	-	-	-	-	-0.965	0	0	0	19.6	0	0.1	-1.061	0	0	0	19.9	0	0.4
4/7/2020	29.97	53	Yes	-1.145	8	0.4	0	18.2	0	0	-	-	-	-	-	-	-	0.325/0.237 /-0.069[2]	0	0	0	20.7	0	0	-1.063	0	0	0	20.9	0	0
6/29/2020	29.83	70	Yes	-1.236	0	0	0	18.7	0	0	-	-	-	-	-	-	-	-0.041	0	0	0	19.2	0	0	-1.155	0	0	0	20.5	0	0
9/24/2020	29.94	64	Yes	-1.257	0	0	0	19.8	0	0	-	-	-	-	-	-	-	-0.023	0	0	0	20.3	0	0	-1.153	0	0	0	20.8	0	0
12/15/2020	30.26	39	Yes	-1.27	0	0	0	21	0	0	-	-	-	-	-	-	-	-0.519	0	0	0	20.8	0	0	-1.102	0	0	0	21.5	0	0
3/22/2021	30.32	46	Yes	-0.89	0	0	0	18.9	0	0	-	-	-	-	-	-	-	0.008	0	0	0	21.4	0	0	-0.948	0	0	0	21.4	0	0
6/28/2021	30.19	78	Yes	-0.88	18	0.9	0	17.9	0	0	-	-	-	-	-	-	-	0.159	0	0	0	20.8	0	0	-0.617	0	0	0	20.7	0	0
9/28/2021	29.81	72	Yes	-0.704	18	0.9	0	21.2	0	0	-	-	-	-	-	-	-	-0.005	0	0	0	21.1	0	0	-0.381	0	0	0	21	0	0
12/20/2021	30.29	28	Yes	-0.606	8	0.4	0	20.6	0	0	-	-	-	-	-	-	-	-0.006	0	0	0	21.7	0	0	-0.264	0	0	0	21.5	0	0
3/16/2022	30.2	55	Yes	-0.591	0	0	0	20	0	0	-	-	-	-	-	-	-	-0.168	0	0	0	20.3	0	0	-0.169	0	0	0	20.5	0	0
3/31/2022	30.56	29	Yes	-0.586	0	0	0	21.8	0	0	-0.022	0	0	0	21.9	0	0	-0.015	0	0	0	19.9	0	0	-0.17	0	0	0	21.6	0	0
6/28/2022	30.04	67	Yes	-0.6	14	0.7	0	16.3	0	0	-0.003	0	0	0	20.2	0	0	-0.001	0	0	0	20.2	0	0	-0.147	0	0	0	20.3	0	0
7/20/2022	29.77	85	Yes	NM	NM	NM	NM	NM	NM	NM	-0.073	NM	NM	NM	NM	NM	NM	-0.638	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/20/2022	29.85	70	Yes	-0.063	0	0	0	22.7	0	0	-0.011	0	0	0	23.2	0	0	-0.513	0	0	0	23.4	0	0	-0.162	0	0	0	23.5	0	0
12/6/2022	30.25	50	Yes	-0.42	14	0.7	0	18.5	0	0	0.04	0	0	0	21	0	0	-0.818	0	0	0	20.4	0	0	-0.13	0	0	0	20.9	0	0
3/28/2023	30.05	52	Yes	-0.427	2	0.1	0	21.5	0.2	0.1	-0.002	2	0.1	0	21.3	0.1	0.4	-2.55	2	0.1	0	20.9	0.2	0.4	-0.063	2	0.1	0	21.1	0.1	0.2
6/26/2023	29.78	73	Yes	-0.494	0	0	0	21.9	0.2	0.2	-0.016	0	0	0	22.0	0.1	0.2	0.375	0	0	0	22	0.1	0.2	-0.881	0	0	0	22.2	0.1	0.2

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Golf Course Clubhouse Building																											
				MP-5							MP-6							MP-7							MP-8						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
6/7/2018[1]	30.1	70	Yes	-1.149	NM	NM	0	NM	0	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/27/2018	29.94	55	Yes	-0.033	0	0	0	21.2	0	0	-1.587	0	0	0	21	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/17/2018	29.73	45	Yes	-0.014	0	0	0	20.6	0	0	-1.217	0	0	0	20.6	0	0	-	-	-	-	-	-	-	-1.131	0	0	0	20.4	0	0
3/15/2019	29.63	62	Yes	-0.009	0	0	0	19.4	1.8	1.8	-1.185	0	0	0	20.2	1.8	1.8	-	-	-	-	-	-	-	-1.084	0	0	0	20	1.4	1.4
6/13/2019	29.78	88	Yes	-0.018	0	0	0	21.1	0	0.3	-1.312	0	0	0	21.1	0	0	-	-	-	-	-	-	-	-1.195	0	0	0	21.2	0	0
9/4/2019	29.97	78	Yes	-0.019	0	0	0	20.6	0	0	-1.319	0	0	0	20.7	0	0	-1.341	0	0	0	20.4	6	0	-1.271	0	0	0	20.5	0	0
1/8/2020	30.03	35	Yes	-0.02	0	0	0	20	0	0.4	-1.196	0	0	0	20.3	0	0	-1.201	0	0	0	19.7	0.1	0.2	-1.092	0	0	0	19.7	0	0
4/7/2020	29.97	53	Yes	-0.005	0	0	0	20.7	0	0	-1.21	0	0	0	20.6	0	0	-1.137	0	0	0	20.6	0	0	-1.062	0	0	0	20.7	0	0
6/29/2020	29.83	70	Yes	-0.002	0	0	0	20.8	0	0	-1.305	0	0	0	20.9	0	0	-1.1223	0	0	0	20.6	0	0	-1.138	0	0	0	20.6	0	0
9/24/2020	29.94	64	Yes	-0.01	0	0	0	20.8	0	0	-1.304	0	0	0	20.7	0	0	-1.237	0	0	0	20.7	0	0	-1.144	0	0	0	20.7	0	0
12/15/2020	30.26	39	Yes	-0.027	0	0	0	20.8	0	0	-1.296	0	0	0	20.7	0	0	-1.261	0	0	0	21.2	0	0	-1.237	0	0	0	21.1	0	0
3/22/2021	30.32	46	Yes	-0.001	0	0	0	21.4	0	0	-0.679	0	0	0	21.4	0	0	-0.872	0	0	0	21.4	0	0	-0.675	0	0	0	21.4	0	0
6/28/2021	30.19	78	Yes	-0.902	0	0	0	21	0	0	-0.876	0	0	0	20.8	0	0	-0.869	0	0	0	21	0	0	-0.571	0	0	0	20.8	0	0
9/28/2021	29.81	72	Yes	-0.014	0	0	0	21.1	0	0	-0.761	0	0	0	21.2	0	0	-0.858	0	0	0	21.1	0	0	-0.266	0	0	0	21.2	0	0
12/20/2021	30.29	28	Yes	-0.009	0	0	0	21.1	0	0	-0.629	0	0	0	21.1	0	0	-0.587	0	0	0	20.9	0	0	-0.222	0	0	0	21.2	0	0
3/16/2022	30.2	55	Yes	-0.019	0	0	0	20.7	0	0	-0.719	0	0	0	20.5	0	0	-0.594	0	0	0	21	0	0	-0.23	0	0	0	20.3	0	0
3/31/2022	30.56	29	Yes	-0.022	0	0	0	20.8	0	0	-0.75	0	0	0	21.2	0	0	-0.538	0	0	0	20.8	0	0	-0.217	0	0	0	21.2	0	0
6/28/2022	30.04	67	Yes	0	0	0	0	20.3	0	0	-0.59	0	0	0	20.3	0	0	-0.556	0	0	0	20.3	0	0	-0.168	0	0	0	20.4	0	0
7/20/2022	29.77	85	Yes	-2.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/20/2022	29.85	70	Yes	-0.004	0	0	0	23.1	0	0	-0.664	0	0	0	23.1	0	0	-0.601	0	0	0	23.1	0	0	-0.151	0.1	0	0	23.5	0	0
12/6/2022	30.25	50	Yes	0.07	0	0	0	21.1	0	0	-0.455	0	0	0	21.1	0	0	-0.395	0	0	0	21.1	0	0	-0.142	0	0	0	20.8	0	0
3/28/2023	30.05	52	Yes	-0.003	2	0.1	0	21.7	0.1	0.4	-0.439	4	0.2	0	22.0	0.1	0.3	-0.406	4	0.2	0	22.0	0.1	0.2	-0.055	2	0.1	0	20.9	0.3	0.4
6/26/2023	29.78	73	Yes	0.007	0	0	0	22	0.1	0.3	-0.434	0	0	0	22.0	0.1	0.1	-0.462	0	0	0	22	0.3	0.2	-0.051	0	0	0	21.5	0.1	0.2

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Golf Course Clubhouse Building												
				MP-9							MP-10					
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
6/7/2018[1]	30.1	70	Yes	-	-	-	-	-	-	-	-1.491	NM	NM	0	NM	0	NM
9/27/2018	29.94	55	Yes	-1.485	0	0	0	21	0	0							
12/17/2018	29.73	45	Yes	-1.115	0	0	0	20.3	0	0	-1.124	0	0	0	20.5	0	0
3/15/2019	29.63	62	Yes	-1.095	0	0	0	19.4	1.5	1.6	-1.087	0	0	0	19.9	1.5	1.6
6/13/2019	29.78	88	Yes	-1.157	0	0	0	21.2	0.1	0.1	-1.183	0	0	0	21.2	0	0
9/4/2019	29.97	78	Yes	-1.253	0	0	0	20.4	0	0	-1.258	0	0	0	20.5	0	0
1/8/2020	30.03	35	Yes	-1.049	0	0	0	19.6	0	0.2	-1.089	0	0	0	19.8	0	1.5
4/7/2020	29.97	53	Yes	-1.03	0	0	0	20.6	0	0	-1.057	0	0	0	20.6	0	0
6/29/2020	29.83	70	Yes	-1.116	0	0	0	20.5	0	0	-1.1201	0	0	0	20.3	0	0
9/24/2020	29.94	64	Yes	-1.115	0	0	0	20.6	0	0	-1.125	0	0	0	20.5	0	0
12/15/2020	30.26	39	Yes	-1.084	0	0	0	21.5	0	0	-1.197	0	0	0	21.4	0	0
3/22/2021	30.32	46	Yes	-0.506	0	0	0	21.4	0	0	-0.694	0	0	0	20.9	0	0
6/28/2021	30.19	78	Yes	-0.578	0	0	0	20.5	0	0	-0.58	0	0	0	19.7	0	0
9/28/2021	29.81	72	Yes	-0.246	0	0	0	21	0	0	-0.381	0	0	0	21.3	0	0
12/20/2021	30.29	28	Yes	-0.19	0	0	0	21.3	0	0	-0.192	0	0	0	21.4	0	0
3/16/2022	30.2	55	Yes	-0.187	0	0	0	20.2	0	0	-0.199	0	0	0	21	0	0
3/31/2022	30.56	29	Yes	-0.159	0	0	0	21.3	0	0	-0.22	0	0	0	21.2	0	0
6/28/2022	30.04	67	Yes	-0.14	0	0	0	20.3	0	0	-0.128	0	0	0	20.3	0	0
7/20/2022	29.77	85	Yes	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/20/2022	29.85	70	Yes	-0.013	0	0	0	23.4	0	0	-0.11	0	0	0	23.4	0	0
12/6/2022	30.25	50	Yes	-0.125	0	0	0	20.7	0	0	-0.1	0	0	0	20.1	0	0
3/28/2023	30.05	52	Yes	-0.056	2	0.1	0	20.9	0.2	0.2	-0.069	2	0.1	0	21.0	0.2	0.3
6/26/2023	29.78	73	Yes	-0.061	0	0	0	20.6	0.2	0.2	-0.066	0	0	0	21.9	0.1	0.1

Notes:
"WC - Inches of Water
"Hg - inches of mercury
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figure 6 for locations)
cfm - cubic feet per minute
NM - not measured
% O_2 - percent oxygen
°F - degrees Fahrenheit
[1] System only partially installed
[2] Data Collected from three separate Site Visits: April 7, 2020 = +0.325; April 28, 2020 = +0.237 ; May 12, 2020 = -0.069

E-5

Bally's Bronx
Phase I ESA for Ring Road
Prepared by: Langan Engineering

LANGAN

PHASE I ENVIRONMENTAL SITE ASSESSMENT

for

PROPOSED BALLY'S CASINO – RING ROAD
at FERRY POINT PARK
Bronx, New York 10465

Prepared for:

Bally's Corporation
100 Westminster Street
Providence, Rhode Island 02903

Prepared by:

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Report Date: **12 September 2024**
180-Day Viability Date: **31 January 2025**
170773001

LANGAN

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EXECUTIVE SUMMARY

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) completed a Phase I Environmental Site Assessment (ESA) for a section of Hutchinson River Parkway, referred to as Ring Road, located within Ferry Point Park, Bronx, New York (the "Subject Property") under the written authorization of Bally's Corporation LLC (Bally's, "Client" and the "user").

The Phase I ESA was completed following the guidelines of ASTM International Standard Practice E1527-21 (ASTM E1527-21), the United States Environmental Protection Agency's (US EPA) All Appropriate Inquiries (AAI) Rule, and industry standard practice. The user requested this ESA to identify recognized environmental conditions (REC), controlled recognized environmental conditions (CREC), historical recognized environmental conditions (HREC), and de minimis conditions associated with the Subject Property.

Subject Property Layout

The Subject Property is an approximately 9.85-acre, U-shaped section of Ferry Point Park that primarily serves as a park thoroughfare and public recreation space. The Subject Property is improved with an uninterrupted, circular roadway, referred to as Ring Road. Ring Road is a one-lane, one-way, asphalt-paved roadway and is bordered on either side by concrete curbing, metal guardrails, and grass shoulders. The remainder of the Subject Property includes vegetated areas and footpaths associated with Ferry Point Park. The section of Ring Road comprising the Subject Property totals about 1 mile.

Improvements to the Subject Property, including widening of Ring Road are contemplated by Bally's as part of the proposed development of a gaming facility. The Subject Property encompasses the total area of proposed roadway improvements, which includes park land extending between about 40 and 60 feet beyond the current extents of Ring Road.

Subject Property Current Use

The Subject Property is used as a park roadway and also contains vegetation and footpaths. Vehicles must travel along Ring Road to enter Ferry Point Park, the adjoining Bally's Golf Links at Ferry Point golf course, and adjoining Bronx-Whitestone Bridge Metropolitan Transportation Authority (MTA) facility.

Subject Property History

The majority of the Subject Property was part of Westchester Creek and the Baxter Creek Inlet (now the East River) before infilling and development of Ferry Point Park in the 1940s. By 1947, the Subject Property and surrounding area had been infilled to create new land, and Ring Road had been constructed. Improvements to the Subject Property continued through 2015, when adjoining park and golf course construction were completed, and the Subject Property appeared as it does today.

Adjoining Properties and Surrounding Area

The surrounding area was depicted as mostly undeveloped and inundated in the topographic maps in the late 1800s and early 1900s. During the 1940s, the general area was infilled, and the Bronx-Whitestone Bridge was constructed on the southern-adjoining property. The supporting toll plaza and MTA structures were also erected north of the Subject Property during this time period. Landfilling operations took place on the eastern- and southern-adjoining properties

between 1950 and the 1960s. Development related to Ferry Point Park operations continued east, south, and west of the Subject Property until the current configuration was achieved circa 2015. North of the Subject Property, commercial development continued through the 1990s, until the existing buildings were constructed.

Conclusions

Langan completed a Phase I ESA of the Subject Property using the scope guidelines and inherent limitations of ASTM E1527-21. Table ES-1 presents the conclusions of the Phase I ESA.

Table ES-1 Conclusions, Findings and Opinions

ASTM E1527-21 Scope Items
Recognized Environmental Conditions (RECs)
Current and Historical Use of the Adjoining and Surrounding Properties: Historical adjoining and surrounding property use includes a municipal solid waste landfill (1950-1960s), a United Parcel Service (UPS) facility with petroleum and chemical bulk storage (1985 - present), and a Metropolitan Transportation Authority (MTA) bridge support facility with petroleum bulk storage (1951 - present). Documented and undocumented spills or releases of petroleum products or hazardous substances associated with these properties may have adversely affected groundwater and/or soil vapor on the Subject Property. *Non-native Fill:* Non-native fill is expected to underly the site above native soil. Non-native fill in New York City may contain contaminants, particularly metals and semi-volatile organic compounds (SVOCs), at concentrations that exceed applicable state and/or federal standards. Non-native fill does not trigger a regulatory reporting requirement, but may require implementation of special soil handling, management, and off-site disposal procedures if disturbed during development of the Subject Property.
Controlled Recognized Environmental Conditions (CRECs)
Langan did not identify CRECs.
Historical Recognized Environmental Conditions (HRECs)
Langan did not identify HRECs.
De Minimis Conditions
Langan did not identify de minimis conditions.
Significant Data Gaps
Langan did not identify significant data gaps.
Non-ASTM E1527-21 Scope Items
Business Environmental Risks (BERs)
Langan did not identify BERs.

1. INTRODUCTION

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) completed a Phase I Environmental Site Assessment (ESA) for a section of Hutchinson River Parkway, referred to as Ring Road, located within Ferry Point Park, Bronx, New York (the "Subject Property") under the written authorization of Bally's Corporation LLC (Bally's, "Client" and the "user"). A Subject Property Location Map is provided in Appendix A (Figure 1).

The Phase I ESA was completed following the guidelines of ASTM International Standard Practice E1527-21 (ASTM E1527-21), the United States Environmental Protection Agency's (US EPA) All Appropriate Inquiries (AAI) Rule, and industry standard practice. The user requested this ESA to identify recognized environmental conditions (REC), controlled recognized environmental conditions (CREC), historical recognized environmental conditions (HREC), and de minimis conditions associated with the Subject Property.

1.1 Purpose

The purpose of this Phase I ESA is to identify RECs associated with the Subject Property. This purpose also includes identifying CRECs, HRECs, de minimis conditions, and significant data gaps. The definitions of REC, CREC, HREC, de minimis condition and other select ASTM terms used in this report are in Section 8.

1.2 Scope of Services

Langan's scope of services consisted of the completion of a Phase I ESA following the guidelines of ASTM E1527-21. Langan's scope of services as it pertains to the elements of a Phase I ESA as specified in ASTM E1527-21 is described below.

On 8 July 2024, the US EPA final rule designating two per- and polyfluoroalkyl substances (PFAS) – perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) including their salts and structural isomers – as hazardous substances under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) became effective. Because of the complex and varied historical use of PFAS in various industries; limited prior disclosures of PFAS content on product specification sheets, Material Safety Data Sheets (MSDS), and Safety Data Sheets (SDS); the complex chemistry and chemical transformations associated with some PFAS; and the ever-growing and varied list of state regulations, it is not feasible to evaluate PFOA and PFOS without also considering other PFAS. As such, absent analytical data, Langan incorporated a review of PFAS as a general class into this Phase I ESA.

PFAS and other CERCLA hazardous substances and petroleum products have been detected in background environmental samples across the globe, including in areas removed from specific recognized sources. This Phase I ESA was not intended to evaluate background concentrations of CERCLA hazardous substances or petroleum products, regardless of whether the source is naturally occurring or anthropogenic. The objective of Langan's scope of services was to identify the presence, likely presence, and/or material threat of a release of CERCLA hazardous substances and petroleum products related to specific property uses that are generally recognized as known or potential sources of such substances and products.

1.2.1 Records Review and Local Government Interviews

Langan contracted a third-party provider to search environmental regulatory databases and provide historical records. The database search included select federal, state, local and tribal standard source environmental databases within the approximate search radii specified by ASTM E1527-21.

Langan submitted Freedom of Information Act (FOIA) requests to supplement environmental database listing information. The FOIA requests were submitted to the New York City Department of Environmental Protection (NYCDEP), New York City Department of Health and Mental Hygiene (NYCDHMH), New York City Fire Department (FDNY), New York State Department of Health (NYSDOH), New York State Department of Environmental Conservation (NYSDEC) and US EPA Region 2.

Langan supplemented the third-party-provided historical records with review of online historical record sources including Google Earth Pro, the New York City Department of Buildings (NYCDOB) online query system, New York City Department of City Planning Commission (NYCDCP) zoning maps, the City Environmental Quality Review (CEQR) Environmental Designation list, the Automated City Register Information System (ACRIS) website, and US EPA databases. Agency FOIA-requested information, where received, is discussed in relevant sections of this report and referenced in Section 7. Pertinent documents are provided in Appendix B.

1.2.2 Site Reconnaissance and Owner/Operator/Occupant Interviews

Langan completed the site reconnaissance on 9 August 2024. Kaitlyn Gioia of Langan coordinated with Brian Crowell (General Manager with Bally's Golf Links at Ferry Point [the User]; the "key site manager") to schedule the site reconnaissance for the Subject Property.

Langan walked the periphery of the Subject Property and observed the Subject Property from adjoining public thoroughfares. Langan observed the adjoining properties and the surrounding area from the periphery of the Subject Property and from public thoroughfares adjoining to or traveled on to access the Subject Property. The weather at the time of the site reconnaissance was approximately 80°F and rainy. Photographs from the site reconnaissance are provided in Appendix C.

An owner/operator questionnaire was completed by Ms. Kay Zias, a representative of the current owner of the Subject Property, the NYC Department of Parks and Recreation (NYCDPR). Ms. Zias is the Director of the Environmental Remediation Unit with NYCDPR. Ms. Zias noted that she is not aware of litigation administrative proceedings, or environmental notices related to hazardous substances or petroleum products at the Subject Property. A summary of the owner's responses is provided in Appendix D and relevant information from environmental reports provided from NYCDPR is discussed in applicable sections of this report.

1.2.3 Evaluation, Report and Parts Used in Concert

Langan evaluated the information obtained from the records reviews, site reconnaissance and interviews described above, and from the user as described in Section 1.3 in concert with each other. Langan's findings, opinions, and conclusions are discussed throughout this report. Significant assumptions, or deletions, deviations or exceptions to ASTM E1527-21 are noted in Section 1.4.

1.2.4 Non-ASTM Scope Services

The scope of services for the Phase I ESA did not include non-scope ASTM considerations including, but not limited to, asbestos, biological agents, mold, etc.

1.3 User Responsibilities

Langan requested that the user provide the results of tasks the user is responsible for completing to satisfy the requirements of AAI. The tasks include: providing information related to specialized knowledge or experience of the user or the degree of obviousness relative to conditions indicative of releases or threatened releases; actual knowledge of the user regarding environmental liens or activity and use limitations (AULs) related to the Subject Property; specialized knowledge or experience of the user; reasons for significantly lower purchase prices, and commonly known or reasonably ascertainable information within the local community about the Subject Property. Langan also requested that the user state the reason the Phase I ESA was requested. A summary of the user's responses is provided in Appendix D and relevant information provided by the user is discussed in applicable sections of this report.

Langan contracted Environmental Data Resources, Inc. (EDR) to conduct an environmental lien and AUL search for the Subject Property. The result of the search, which included a compilation of available data and verification of the findings with the appropriate regulatory authorities, did not reveal environmental liens or AULs. A copy of the environmental lien search is provided in Appendix B.

1.4 Limiting Conditions/Deviations

Langan was unable to observe the ground surface throughout unpaved sections of the Subject Property exterior due to vegetation overgrowth. This limiting condition did not impact Langan's conclusions based on review of aerial photographs.

Langan did not delete or deviate from the ASTM E1527-21 guidelines during this Phase I ESA.

1.5 Data Gaps

Data gaps, if encountered, are discussed throughout the report. Significant data gaps, if any, are summarized in Section 5.0.

2. SUBJECT PROPERTY DESCRIPTION AND CURRENT USE

The following sections describe the Subject Property location, ownership, physical setting, and current layout and operations.

2.1 Location, Legal Description, and Ownership

The approximately 9.85-acre Subject Property is identified on the New York City Bronx Borough Tax Map as part of Block 5622, Lot 1. The Subject Property is bound by Schley Avenue, the Hutchinson River Parkway, and service roads to the north; Bally's Golf Links at Ferry Point golf course to the east; Ferry Point Park and the Bronx-Whitestone Bridge to the south; and Ferry Point Park to the west. Between the western and eastern legs of the U-shape formed by the Subject Property lies public parking areas for Ferry Point Park and the Bronx-Whitestone Bridge Metropolitan Transit Authority (MTA) Building. According to ACRIS, the Subject Property is owned by the NYCDPR.

2.2 Physical Setting

The physical setting that includes the geologic, hydrogeologic, hydrologic, and topographic characteristics of the Subject Property and surrounding area is discussed below.

2.2.1 Topography

The 2019 United States Geological Survey (USGS) 7.5-minute quadrangle topographic map for Flushing depicts the Subject Property at an elevation of approximately 16 feet above mean sea level (msl) with a gentle slope downward toward the west-southwest. The regional topography slopes downward toward the west-southwest and Westchester Creek, which is located approximately 320 feet west of the Subject Property.

2.2.2 Geology

According to the U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) Soil Survey Geographic (SSURGO) data for Summit County, soils at the Subject Property consist primarily of urban land with tidal marsh stratum, and lesser amounts of Greenbelt loam, Greatkills gravelly sandy loam, and North Meadow sandy loam. Urban Land refers to soils that have been altered by human activities thus making them unidentifiable. Typically, these soils have been mixed with other materials, such as brick, concrete, and demolition debris of unknown origin (non-native fill). Non-native fill found in urban environments typically contains ash, demolition debris, and/or municipal waste products and may contain contaminants (e.g., semi volatile organic compounds [SVOCs] or metals) at concentrations above current regulatory standards. Non-native fill does not trigger a regulatory reporting requirement, but may require implementation of special soil handling, management, and off-site disposal procedures if disturbed during development of the Subject Property. The presence of non-native fill is considered a REC.

According to the USGS Bedrock and engineering geologic maps of New York County and parts of Kings and Queens Counties, New York, and parts of Bergen and Hudson Counties, New Jersey (Baskerville, C.A., 1994), the Subject Property is in the Pelham Bay Member, which consists of sillimanite-grade gneisses. According to previous geotechnical investigations in the surrounding area, subsurface conditions generally consist of a layer of miscellaneous fill, overlying natural,

soft, silty, clayey, peat and sands, which overly glacial till. Bedrock is expected to be 80 to 120 feet below current grade.

2.2.3 Hydrogeology

Surface water bodies are not present within the boundary of the Subject Property. The nearest surface water bodies are Westchester Creek and the East River. Information regarding Subject Property-specific groundwater flow direction is unavailable. Groundwater flow can be influenced by several factors such as surface water bodies, wetlands, hydrogeologic and anthropogenic variables. However, based on topographic gradient and proximity to Westchester Creek and the East River, it is expected that groundwater generally flows to the west-southwest.

A review of the Geocheck section of the LightBox Environmental Data Resources (EDR) Regulatory Database Report (Appendix E) and site reconnaissance observations did not identify groundwater wells on the Subject Property. The EDR report identified one groundwater monitoring well within a quarter mile of the Subject Property. No groundwater elevation data from the well is available; however, based on Langan's experience with, and previous reports for the area, groundwater is tidally influenced and estimated between 2 and 20 feet below grade surface (bgs).

2.3 Subject Property Description

The Subject Property is an approximately 9.85-acre, U-shaped section of Ferry Point Park that primarily serves as a park thoroughfare and public space. The Subject Property is improved with an uninterrupted, circular roadway, referred to as Ring Road. Ring Road is a one-lane, one-way, asphalt-paved park roadway and is bordered on either side by concrete curbing, metal guardrails, and grass shoulders. The remainder of the Subject Property includes vegetated areas and footpaths associated with Ferry Point Park. The section of Ring Road comprising the Subject Property totals about 1 mile.

Improvements to the Subject Property, including widening of Ring Road are contemplated by Bally's as part of the proposed development of a gaming facility. The Subject Property encompasses the total area of proposed roadway improvements, which includes park land extending between about 40 and 60 feet beyond the current extents of Ring Road.

A Subject Property Layout Map is provided in Figure 2 of Appendix A. Photographs of the Subject Property and a checklist documenting Langan's observations relative to the features, activities, uses and conditions outlined in Section 9.4 of ASTM E1527-21 are in Appendix C.

2.4 Current Subject Property Use

The Subject Property is used as a park roadway and also contains vegetation and footpaths. Vehicles must travel along Ring Road to enter Ferry Point Park, the adjoining Bally's Golf Links at Ferry Point golf course, and adjoining Bronx-Whitestone Bridge MTA facility.

The following table summarizes Subject Property utility providers.

Table 2-1 Utility Providers

Utility	Providers
Electricity	Consolidated Edison (Con Edison)
Natural gas	None – within the Con Edison service area

Utility	Providers
Water	NYCDEP
Sewer	NYCDEP

2.5 Hazardous Substances and Petroleum Products

Langan did not observe hazardous waste or petroleum products at the Subject Property. According to EDR database records, no hazardous waste is currently being generated at the Subject Property.

2.5.1 Underground Storage Tanks (USTs)

Langan did not observe evidence of USTs at the Subject Property.

2.5.2 Aboveground Storage Tanks (ASTs)

Langan did not observe evidence of ASTs at the Subject Property.

2.5.3 Drums, Totes, and Intermediate Bulk Containers

Langan did not observe drums, totes, or other intermediate bulk containers at the Subject Property.

2.5.4 Other Chemical Storage, Containers, or Equipment

Langan did not observe chemical storage, containers or equipment at the Subject Property.

2.6 Air Emissions

Langan did not identify sources of air emissions at the Subject Property.

2.7 Waste Management

The following sections describe current hazardous and non-hazardous waste streams, and observations of fill areas or other solid waste throughout the Subject Property.

2.7.1 Hazardous Waste

According to EDR database records, no hazardous waste is currently being generated at the Subject Property. Langan did not observe hazardous waste at the Subject Property.

2.7.2 Non-Hazardous Waste

Langan did not observe non-hazardous waste at the Subject Property.

2.7.3 Fill Areas or Solid Waste

Langan observed several about 1-inch-diameter holes adjacent to the metal guardrail along the eastern leg of the Subject Property. The holes are presumed to be associated with guardrail installation.

Langan did not observe areas that were apparently filled or graded by non-natural causes (or filled with material of unknown origin) that suggest the presence of garbage, construction debris,

demolition debris, or other solid waste disposal, or mounds or depressions suggesting solid waste disposal.

2.8 Wastewater

No wastewater streams are generated at the Subject Property. Connection to the municipal sanitary sewer has not yet been provided to the Subject Property but is available through the City of New York. Langan did not observe or identify evidence of septic systems or cesspools at the Subject Property.

2.9 Storm Water

Storm water at the Subject Property percolates through pervious areas or sheet flows to the into the municipal storm sewer system. Several storm drains are located throughout Ring Road. Langan did not observe evidence of impact (e.g., sheens, staining) to storm water pathways. As indicated by the user, Ring Road is prone to flooding during extreme weather events.

3. SUBJECT PROPERTY HISTORY AND RECORDS REVIEW

The following sections provide summaries of the historical uses of the Subject Property, and available information regarding documented environmental conditions associated with the historical uses.

3.1 Historical Summary

Langan compiled the following summary of the Subject Property history based on a review of readily available and reasonably ascertainable sources and interviews. Historical resources are provided in Appendix F.

Table 3-1 Subject Property History

Time Period	Historical Discussion
1890s – 1930s	The Subject Property is depicted as undeveloped and predominantly marsh- and swampland on topographic maps during this period. The majority of the Subject Property is part of the Westchester Creek and Baxter Creek Inlet and entirely submerged in the aerial photograph from 1924.
1940 – 1960s	According to the 1947 topographic map, the former marsh was filled in and Ring Road is visible on the Subject Property. Baxter Creek Inlet adjoins the Subject Property to the east. The Subject Property is bisected by a newly-constructed Bronx-Whitestone Bridge and associated toll plaza. Based on aerial photographs between 1950 and 1966, development of Ring Road continues, including widening the road and paving its surface. Connections from Ring Road are also made to the adjoining toll plaza.
1970s – 2010s	Between the 1970s and 2010s, Ring Road appears to remain relatively unchanged in aerial photographs, topographic maps, and Sanborn maps. Beyond Ring Road, the shoulder along the eastern part of the Subject Property is decreased circa 2011 to add a park footpath and accommodate development of the east-adjoining property.
2015 – Present	Based on the 2015 aerial photograph, development of the east-adjoining property is completed, and the Subject Property appears in its current configuration.

The majority of the Subject Property was part of Westchester Creek and the Baxter Creek Inlet (now the East River) before infilling and development of Ferry Point Park in the 1940s. During infilling, the Subject Property was backfilled with fill of unknown quality. As discussed in Section 2.2.2, the presence of non-native fill is considered a REC.

3.2 Regulatory Database Review

The Subject Property is identified in the NYC Land Use database. The NYC Land Use database listing relates to general information regarding the current zoning as a park and building class information for the Subject Property. No violations are reported in this database; therefore, the listing is not considered a REC.

3.3 Prior Report Review

Prior reports were not provided for review.

4. ADJOINING PROPERTIES AND SURROUNDING AREA

The following sections describe current and historical uses of and database listings for adjoining properties and the surrounding area.

4.1 Current Use of Adjoining Properties and Surrounding Area

The current use of adjoining and surrounding properties is summarized in Table 4-1.

Table 4-1 Current Use of Adjoining Properties and Surrounding Area

Direction	Adjoining Properties	Surrounding Area
North	Schley Avenue, Ferry Point Park, and Bronx-Whitestone Bridge MTA Building (492 Hutchinson River Parkway, Bronx, NY 10465)	Interstate 678, St. Raymond New Cemetery and commercial buildings
East	Bally's Golf Links at Ferry Point (500 Hutchinson River Parkway, Bronx, NY 10465)	Residential buildings
South	Bronx-Whitestone Bridge and Ferry Point Park (no address)	East River
West	Ferry Point Park (no address)	Westchester Creek

A diesel-fired generator was observed along the perimeter of Ring Road at the eastern adjoining property during the site reconnaissance. Langan did not observe indications of leaks or releases from the generator.

Langan did not observe obvious conditions likely to represent environmental concerns for the Subject Property from current uses of adjoining or surrounding properties.

4.2 Adjoining Properties and Surrounding Area History

Langan compiled the following summaries of the adjoining properties and surrounding area history based on a review of historical resources and interviews. Historical resources are provided in Appendix F.

Table 4-2 Historical Use of Adjoining Properties

Direction	Adjoining Properties
North	The northern-adjoining properties are depicted as undeveloped on topographic maps in the late 1800s. The 1924 aerial photograph shows that some of the properties are inundated and part of Westchester Creek. By 1947, topographic maps depict one of the northern-adjoining properties to be developed as part of the Bronx-Whitestone Bridge and associated toll plaza. Continued development through the late-1900s includes construction of an additional support facility for the Bronx-Whitestone Bridge, a warehouse along Schley Avenue, and several parking lots. Langan does not consider the historical uses of the northern-adjoining properties an environmental concern for the Subject Property.
East	The eastern-adjoining property is depicted as undeveloped on topographic maps and aerial photographs from the 1890s to 1920s. Based on aerial photographs, between the 1950s and 1960s, the east-adjoining property is part of landfilling operations that form the present-day shoreline. Limited road development on the eastern-adjoining property continues

Direction	Adjoining Properties
	through the 1990s, until the construction of the present-day golf course begins in the 2000s. The golf course was completed circa 2015. Landfilling operations are further discussed in Section 4.3.1.
South	The southern adjoining property is depicted as undeveloped on topographic maps and aerial photographs between the 1890s and 1920s. By 1947, the Bronx-Whitestone Bridge is constructed. The remaining property south of the Subject Property consists of Ferry Point Park and also includes landfilling operations described above, as further discussed in Section 4.3.1.
West	Based on topographic maps, the western-adjoining property was developed with a roadway as early as the late-1800s, and Sanborn maps show that this property is part of Ferry Point Park. Aerial photographs and Sanborn maps indicate limited development of the western-adjoining property, until about 1985, when an athletic field and additional park footpaths are constructed. This configuration is generally consistent with present day. Langan does not consider the historical use of the western-adjoining property an environmental concern for the Subject Property.

The surrounding area was depicted as mostly undeveloped and inundated in the topographic maps in the late 1800s and early 1900s. During the 1940s, the general area was infilled, and the Bronx-Whitestone Bridge was constructed on the southern-adjoining property. Supporting toll plaza and MTA structures were also erected north of the Subject Property during this time period. Landfilling operations took place on the eastern- and southern-adjoining properties between 1950 and the 1960s. Development related to Ferry Point Park operations continued east, south, and west of the Subject Property until the current configuration was achieved circa 2015. North of the Subject Property, commercial development continued through the 1990s, until the existing buildings were constructed.

Between 1950 and the 1960s, landfilling operations appear to take place on the eastern- and southern adjoining properties. Contaminants of concern on the eastern- and southern- adjoining properties include municipal solid waste and landfill gas (including methane) generated from the decomposition of residual landfill contents. Operations are further discussed in Section 4.3.1.

4.3 Regulatory Database Review

Langan reviewed the environmental database report to evaluate if adjoining or surrounding area properties identified in the database report are suspected to represent an environmental concern for the Subject Property (see Section 8.2). Unless discussed in Section 4.3.1 or 4.3.2 below, Langan did not consider the associated regulatory agency files potential RECs for the Subject Property.

4.3.1 Adjoining Properties

Database listings for adjoining properties are summarized as follows. Adjoining and nearby properties of concern are depicted on Figure 3 of Appendix A.

Ferry Point Park Recreational Facility – 500 Hutchinson River Parkway (eastern/southern-adjoining, inferred upgradient/cross-gradient)

This facility, also identified as "NYCP&R – Ferry Point Waterfront Park", "Ferry Point Golf Course", "Ferry Point Recreational Fac.", and "NYC Parks – Ferry Point Park", was identified on the PFAS Enforcement and Compliance History Online (ECHO), State Pollutant Discharge Elimination System (SPDES), Facility Index System (FINDS), ECHO, and NY Spills databases.

The area of Ferry Point Park east of the Whitestone Bridge was formerly used as a municipal solid waste landfill. In 2000, the NYSDEC issued a Part 360 Permit (Permit No. 2-6006-00014) to allow the import and placement of nonhazardous regulated fill and soil for the construction of the current the golf course. Golf course construction was completed by 2015. The PFAS ECHO, SPDES, FINDS, and ECHO listings are related to former landfill operations as well as golf course construction activities. The site is also identified as a Resource Conservation and Recovery Act (RCRA) – Large Quantity Generator (LQG) in 2009 for the disposal of 10.4 tons of lead waste. No violations were reported related to the database entries. Further information regarding operational use of PFAS was unavailable.

The NY Spills listing is related to NY Spill No. 0913675 and the release of about 5 gallons of diesel fuel in January 2010. According to the listing, a generator was overfilled, and diesel overflowed onto the surrounding ground affecting an approximately 20-foot-long by 10-foot-wide area. Impacted soil was excavated and disposed of, and the spill was closed on 25 March 2010.

Langan did not identify evidence of release of PFAS. However, given the reported history of a chemical release and operations as a municipal solid waste landfill, Langan cannot rule out the potential for PFAS and other contaminant impacts to soil and/or groundwater at the Subject Property from former operations at this eastern/southern-adjoining and inferred upgradient/cross-gradient facility. Therefore, this adjoining property is considered a REC.

Bronx-Whitestone Bridge Facility – 1 Hutchinson River Parkway (northern-adjoining, inferred cross-gradient)

This facility, also identified as "NYSDOT BIN 55211229 – Bronx Whitestone Bridge", and "Bronx Whitestone Bridge", and "Bronx Whitestone Bridge", was listed in the FINDS, NY Spills, UST, AST, Leaking Tanks (LTANKS), Manifest, UST Finder Release, and RCRA-LQG databases.

The UST, UST Finder Release, and AST listings are related to petroleum bulk storage at this facility. According to these databases and the NYSDEC Petroleum Bulk Storage Database (PBS) listing for the site (ID No. 2-481645), there have been 15 tanks at this facility. Four are currently listed in-service, and the remaining 11 tanks have been closed/removed. Tanks sizes range from 550 gallons to 20,000 gallons, and contents include diesel, No. 2 fuel oil, and gasoline. The active tanks include three USTs and one AST.

Several releases related to petroleum bulk storage are associated with this site. The following spills were reported for the site: 8807410, 9201985, 9303540, 9408139, 9501417, 9503672, 9601373, 9607895, 9801266, 9906022, and 0100477. Most of the spills are noted as the result of equipment failure; product releases include diesel, No. 2 fuel oil, ethylene glycol, and gasoline. Spill Nos. 9201985, 9501417, 9601373, 9801266 and 0100477 note impacts to groundwater. Each spill incident has been granted closed status by the NYSDEC, indicating that NYSDEC is satisfied with spill remediation; however, based on the frequency of releases from the facility, variety of products released, and causes of releases, residual contamination or unknown releases may have impacted subsurface conditions at the Subject Property.

The facility is listed in the RCRA generator databases for generation of corrosive-, ignitable-, benzene-, lead-, and mercury-hazardous-wastes. The facility has been listed as a LQG in 1989, 1992, 1994, 1995, 1998, 2001, 2002, 2004, 2006, 2007, 2010, 2012, 2018, and a Small Quantity Generator (SQG) in 2006. Manifests documenting waste disposal are available between 2011 and 2016. Several violations are listed during operations, including compliance evaluation-inspection-, general-generator-, and pre-transport-violations. Undocumented spills or releases of solvents or other hazardous substances associated with operations may have migrated and adversely affected groundwater, and/or soil vapor on the Subject Property.

Petroleum bulk storage, documented releases, and potential releases of solvents or other hazardous substances associated with operations at this adjoining property are considered a REC.

Manhole 15002 – 80 North Hutchinson River Parkway (western adjoining, inferred upgradient)

This facility was identified in the NY Spills database under Spill No. 1000322. The spill was reported on 8 April 2010 for the release of 25 gallons of dielectric cable fluid from a Con Edison pole-mounted transformer onto the adjoining sidewalk and soil. The spill was remediated and subsequently closed on 22 April 2010.

Similar listings are noted for several Con Edison structures surrounding the Subject Property. Con Edison maintains an internal protocol for managing hazardous substances, and none of the database listings indicate open spills or violations for these facilities; therefore, the listings are not considered RECs.

MTA Bridges & Tunnels (BWB) (southern adjoining, inferred cross-gradient)

This facility, also identified as "Whitestone Bridge BX", and "Whitestone Bridge", is listed in the NY Spills, LTANKS, RCRA –SQG, and Manifest databases. The facility is listed in the RCRA generator databases for generation of ignitable-, benzene-, and lead-hazardous-wastes. The facility is listed as a SQG in 2007. Manifests documenting waste disposal are available between 2011 and 2016. No violations were reported for this facility.

Whitestone Bridge BX is listed in the LTANKS database under Spill No. 8912020. The spill was reported on 19 March 1990 when a commercial vehicle pulled off-road and spilled oil from its saddle tank into a drain. FDNY hosed spillage into the drain and the spill was closed on the same day.

The NY Spills database listing is related to Spill No. 0011525, reported on 25 January 2001. The spill was caused by the release of 1 pint of dielectric fluid onto the floor of a Con Edison vault. The spill was remediated and subsequently closed 1 June 2001.

Based on the lack of violations and closed status of the above listings, this facility is not considered a REC.

4.3.2 Surrounding Area

Langan evaluated each of the database listings for surrounding area properties (see Section 8.2). Those warranting further discussion in the context of potential to represent an environmental concern for the Subject Property are discussed below.

Vault #2232 – 555 Hutchinson River Parkway (approximately 0.08 miles north, inferred cross-gradient)

This facility is listed in the AST and NY Spills databases. According to the AST listing, there is one 6,000-gallon No. 2 fuel oil storage tank at the property used for on-site consumption. The tank reportedly rests on soil, allowing for no visual inspection; however, there are no reported releases related to this tank system.

The site is listed in the NY Spills database under Spill No. 0813834, which is related to equipment failure within a Con Edison vault adjacent to the building located at 555 Hutchinson River Parkway. About 5 gallons of transformer oil was released into the vault on 23 March 2009. The spill was remediated, and the spill number was closed on 8 June 2009.

Based on the lack of reported releases or closed status of the above listings, this facility is not considered a REC.

United Parcel Service (UPS) – 545 Brush Avenue (approximately 0.13 miles north, inferred cross-gradient)

This facility is listed in the LTANKS, RCRA-SQG, Chemical Bulk Storage (CBS) AST, E Manifest, Manifest, Tanks, SPDES, AST, UST, UST Finder, NY Spills, and CBS databases.

The following NY Spill Numbers are associated with the facility: 8909242, 8908245, 9307821, 9507165, 1807344, and 2207848. Most of the spills are noted as the result of equipment failure, and product releases include diesel, unknown petroleum, gasoline, and unknown material. Spill Nos. 8908245 and 9507165 note impacts to groundwater. With the exception of Spill No. 2207848, each spill incident has been granted closed status by the NYSDEC, indicating that NYSDEC is satisfied with spill remediation; however, based on the frequency of releases from the facility, variety of products released, and causes of releases, residual contamination or unknown releases may have impacted subsurface conditions at the Subject Property.

Spill No. 2207848, reported on 21 December 2022, is related to a punctured saddle tank that spilled 20 gallons of diesel to the road adjoining the facility. Spill closure is still pending.

The facility is listed in the RCRA generator databases for generation of ignitable-, corrosive-, reactive-, chromium-, silver-, benzene-, carbon-tetrachloride-, chlorobenzene-, cresol-, 1,2-dichloroethane-, methyl-ethyl-ketone-, tetrachloroethylene-, undefined-, nicotine-, salts-, dichloro-methane-, acetic-acid-, formaldehyde-, hydrofluoric-acid-, methanol-, 2-propenoic-acid-, furan-, and ester-hazardous-wastes. The facility has been listed as a Conditionally Exempt Small Quantity Generator (CESQG) in 1995, 2006, and a SQG in 1990, 2007, and 2022. There are fourteen violations recorded for this facility. Undocumented spills or releases of solvents or other hazardous substances associated with operations may have migrated and adversely affected groundwater, and/or soil vapor on the Subject Property.

The facility is listed in the CBS AST database for active chemical-bulk storage, including two 200-gallon ethylene glycol storage tanks. Based on the aforementioned documented releases, chemical-bulk storage at this facility poses an environmental concern for the Subject Property.

Chemical bulk storage, documented releases, and potential releases of petroleum products, chemicals, or other hazardous substances associated with this surrounding property may have adversely affected groundwater, and/or soil vapor on the Subject Property; therefore, this site is a REC.

5. CONCLUSIONS, FINDINGS AND OPINIONS

Langan completed a Phase I ESA consistent with the scope and limitations of ASTM E1527-21 for the Subject Property, referred to as Ring Road, located within Ferry Point Park, Bronx, New York. Exceptions to, or deletions from, ASTM E1527-21 are described in Section 8 of this report.

This assessment has revealed the following RECs in connection with the Subject Property as presented in Table 5-1.

Table 5-1 Conclusions, Findings and Opinions

ASTM E1527-21 Scope Items
Recognized Environmental Conditions (RECs)
Current and Historical Use of the Adjoining and Surrounding Properties: Historical adjoining and surrounding property use includes a municipal solid waste landfill (1950-1960s), a UPS facility with petroleum and chemical bulk storage (1985 - present), and a MTA bridge support facility with petroleum bulk storage (1951 - present). Documented and undocumented spills or releases of petroleum products or hazardous substances associated with these properties may have adversely affected groundwater and/or soil vapor on the Subject Property. *Non-native Fill:* Non-native fill is expected to underly the site above native soil. Non-native fill in New York City may contain contaminants, particularly metals and SVOCs, at concentrations that exceed applicable state and/or federal standards. Non-native fill does not trigger a regulatory reporting requirement, but may require implementation of special soil handling, management, and off-site disposal procedures if disturbed during development of the Subject Property.
Controlled Recognized Environmental Conditions (CRECs)
Langan did not identify CRECs.
Historical Recognized Environmental Conditions (HRECs)
Langan did not identify HRECs.
De Minimis Conditions
Langan did not identify de minimis conditions.
Significant Data Gaps
Langan did not identify significant data gaps.
Non-ASTM E1527-21 Scope Items
Business Environmental Risks (BERs)
Langan did not identify any BERs.

6. ENVIRONMENTAL PROFESSIONAL STATEMENT

I declare that to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR Part 312 and I have the specific qualifications based on my education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Brian Gochenaur, QEP
Associate Principal/Vice President (Environmental Professional)

Resumes outlining the qualifications of the project team and the Environmental Professional are included in Appendix G.

7. REFERENCES

Langan used the following sources to complete this Phase I ESA.

- ASTM E1527-21, Standard Practice for Environmental Property Assessments: Phase I Environmental Property Assessment Process, published 16 November 2021
- City Online Register, https://a836-acris.nyc.gov/DS/DocumentSearch/Index searched 7 August 2024
- Department of Environmental Conservation Bulk Storage Database Search, http://www.dec.ny.gov/cfmx/extapps/derexternal/index.cfm?pageid=4, searched 7 August 2024
- Department of Environmental Conservation Spills Incidents Database Search, http://www.dec.ny.gov/cfmx/extapps/derexternal/index.cfm?pageid=2, searched 7 August 2024
- EDR, Inc., Radius Map Report with GeoCheck, 29 July 2024
- EDR, Inc., City Directory Image Report, 30 July 2024
- EDR, Inc., Aerial Photographs, 30 July 2024
- EDR, Inc., Historical Topographic Map Report, 29 July 2024
- EDR, Inc., Sanborn Map Report, 31 July 2024
- New York City Department of Buildings, Building Information System, http://a810-bisweb.nyc.gov/bisweb/bsqpm01.jsp searched 7 August 2024
- New York City Planning Commission, New York City's Zoning & Land Use Map, https://zola.planning.nyc.gov/about#9.72/40.7125/-73.733, searched 7 August 2024
- PFAS Exchange GIS Webviewer, https://experience.arcgis.com/experience/12412ab41b3141598e0bb48523a7c940/
- US EPA 40 CFR Part 302 (EPA-HQ-OLEM-2019-0341; FRL-7204-03-OLEM), RIN 2050-AH09, Designation of PFOA and PFOS as CERCLA Hazardous Substances, Final Rule, 8 May 2024
- US EPA ECHO database: http://echo.epa.gov/facilities searched 9 August 2024
- US EPA ECHO: PFAS Analytic Tools - https://echo.epa.gov/trends/pfas-tools
- US EPA ENVIROFACTS database: https://www3.epa.gov/enviro/ searched 9 August 2024
- US EPA MyProperty database: https://www3.epa.gov/enviro/facts/myproperty/ searched 9 August 2024
- United States Geological Survey, Baskerville, C.A., 1994; Bedrock and engineering geologic maps of New York County and parts of Kings and Queens Counties, New York, and parts of Bergen and Hudson Counties, New Jersey

Table 7-1 Dates of Assessment Components

COMPONENT	DATE
Interviews	8/15/2024
Review of government records	7/30/2024
Site reconnaissance	8/9/2024
Declaration by Environmental Professional	9/12/2024

8. LIMITATIONS AND DEFINITIONS

This Phase I ESA report was prepared for Client and is intended to be used in its entirety. Excerpts taken from this report are not necessarily representative of the assessment findings. The Client is the sole intended beneficiary of the report. The user requested no special terms or conditions regarding this Phase I ESA.

Langan's scope of services, which is described in Section 1.2 and in the contract executed between Langan and the Client, was limited to that agreed to with the Client/user and no other services beyond those explicitly stated are implied. To the extent possible, the services performed and agreed upon for this Phase I ESA are consistent with the guidelines of ASTM E1527-21.

This report is not intended to be an exhaustive assessment of the Subject Property. The purpose of the Phase I ESA is to reduce uncertainty about unknown conditions at the Subject Property. No environmental site assessment can wholly eliminate uncertainty regarding the potential for RECs in connection with a Subject Property. Therefore, Langan cannot "verify", "insure", "certify", or "guarantee" that the Subject Property is free of environmental concerns.

No expressed or implied representation or warranty is included or intended in this report, except that our services were completed using the care and skill ordinarily followed by professionals providing similar services under similar circumstances in similar locations at the same point in time.

The conclusions provided in this report are based solely on information obtained through completing the standard activities required by ASTM E1527-21 and are intended exclusively for the purpose stated herein, at the specified Subject Property, as it existed at the point in time the assessment was completed. The conclusions provided in this report do not apply to conditions and features of which Langan was not made aware of through good faith efforts to complete the activities required by ASTM E1527-21 and did not have the opportunity to evaluate.

8.1 ASTM Definitions

The following definitions are provided in ASTM E1527-21 and presented below for reference. This section is not a comprehensive list of definitions provided in ASTM E1527-21 and is intended to summarize those pertinent to this Phase I ESA report.

Activity and use limitations (AULs): legal or physical restrictions or limitations on the use of, or access to, a site or facility: (1) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil, soil vapor, groundwater, and/or surface water on the property, or (2) to prevent activities that could interfere with the effective-ness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or engineering controls, are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products in the soil, soil vapor, groundwater, and/or surface water on a property.

Adjoining properties: any real property or properties the border of which is contiguous or partially contiguous with that of the Subject Property, or that would be contiguous or partially contiguous with that of the Subject Property but for a street, road, or other public thoroughfare separating them.

All Appropriate Inquiries: that inquiry constituting all appropriate inquiries into the previous ownership and uses of the Subject Property consistent with good commercial and customary practice as defined in CERCLA, 42 U.S.C.§ 9601(35)(B) and 40 C.F.R. Part 312, that will qualify a party to a commercial real estate transaction for one of the threshold criteria for satisfying the LLPs to CERCLA liability (42U.S.C. §§ 9601(35)(A) & (B), § 9607(b)(3), § 9607(q), and§ 9607(r)), assuming compliance with other elements of the defense.

Approximate minimum search distance: the area for which records must be obtained and reviewed pursuant to ASTM E1527-21 Section 8 subject to the limitations provided in that section. This may include areas outside the Subject Property and shall be measured from the nearest Subject Property boundary. This term is used in lieu of radius to include irregularly shaped properties.

Business environmental risk (BER): a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of commercial real estate, not necessarily related to those environmental issues required to be investigated in this practice. Consideration of BER issues may involve addressing one or more non-scope considerations.

Controlled recognized environmental condition (CREC): recognized environmental condition affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations).

Data gap: a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to, site reconnaissance (for example, an inability to conduct the site visit), and interviews (for example, an inability to interview the key site manager, regulatory officials, etc.).

De minimis condition: a condition related to a release that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A condition determined to be a de minimis condition is not a recognized environmental condition nor a controlled recognized environmental condition.

Engineering controls: physical modifications to a site or facility (for example, capping, slurry walls, or point of use water treatment) to reduce or eliminate the potential for exposure to hazardous substances or petroleum products in the soil or groundwater on a property. Engineering controls are a type of activity and use limitation (AUL).

Environment: environment shall have the same meaning as the definition of environment in CERCLA 42 U.S.C. § 9601(8).

Historical recognized environmental condition (HREC): previous release of hazardous substances or petroleum products affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the Subject Property to any controls (for example, activity and use limitations or other property use limitations). A historical recognized environmental condition is not a recognized environmental condition.

Institutional controls (IC): a legal or administrative mechanism (for example, "deed restrictions," restrictive covenants, easements, or zoning) on the use of, or access to, a site or facility to (1) reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or groundwater on the property, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. An institutional control is a type of activity and use limitation (AUL).

Key site manager: the person identified by the owner or operator of a Subject Property as having good knowledge of the uses and physical characteristics of the Subject Property.

Material threat: obvious threat which is likely to lead to a release and that, in the opinion of the environmental professional, would likely result in impact to public health or the environment.

Obvious: that which is plain or evident; a condition or fact that could not be ignored or overlooked by a reasonable observer.

Property use limitation: limitation or restriction on current or future use of a property in connection with a response to a release, in accordance with the applicable regulatory authority or authorities that allows hazardous sub-stances or petroleum products to remain in place at concentrations exceeding unrestricted use criteria.

Reasonably ascertainable: information that is (1) publicly available, (2) obtainable from its source within reasonable time and cost constraints, and (3) practically reviewable.

Recognized environmental conditions: (1) the presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the Subject Property under conditions that pose a material threat of a future release to the environment. For the purposes of this definition, "likely" is that which is neither certain nor proved, but can be expected or believed by a reasonable observer based on the logic and/or experience of the environmental professional, and/or available evidence, as stated in the report to support the opinions given therein.

Release: a release of any hazardous substance or petroleum product shall have the same meaning as the definition of "release" in CERCLA 42 U.S.C. § 9601(22). There are a number of statutory exclusions from the definition of release that may impact the environmental professional's opinions and conclusions, such as the normal application of fertilizer.

Significant data gap: a data gap that affects the ability of the environmental professional to identify a recognized environmental condition.

Site reconnaissance: that part that is contained in Section 9 of ASTM E1527-21 and addresses what should be done in connection with the site visit. The site reconnaissance includes, but is not limited to, the site visit done in connection with such a Phase I Environmental Site Assessment.

Site visit: the visit of the Subject Property during which observations are made constituting the site reconnaissance section of this practice.

Subject property: the property that is the subject of the environmental site assessment described in this practice.

User: the party seeking to use ASTM E1527-21 to complete an environmental site assessment of the Subject Property.

8.2 Standard Environmental Record Sources

Langan reviewed an environmental database search report prepared by an environmental database search provider for the Subject Property and surrounding area. The database search report includes a listing of properties identified on select federal, state, local and tribal standard source environmental databases within the approximate minimum search radii outlined in ASTM E1527-21. This information was supplied to Langan by the environmental database search provider, and to the environmental database search provider by government sources; therefore, neither Langan nor the environmental database search provider can verify the completeness and accuracy of the database information. Appendix E contains a copy of the report, with specific source and property descriptions, and the dates of the last update for each database searched. Langan reviewed the database search report on a record-by-record basis to evaluate if certain properties identified in the database report are likely to represent an environmental concern for the Subject Property. The evaluation criteria included factors such as distance, groundwater gradient, nature of the listing, and regulatory status. Unless specifically discussed in the body of this report, the facilities listed on the database do not appear to represent an environmental concern to the Subject Property.

Appendix A Figures

LANGAN

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Project	Figure Title	Project No.	Figure
PROPOSED BALLY'S CASINO – RING ROAD AT FERRY POINT PARK BRONX NEW YORK	SUBJECT PROPERTY LOCATION MAP	170773001 Date 8/9/2024 Scale 1" = 2,000 feet Drawn By MG	1

© 2023 Langan

Path: \\langan.com\data\NYC\data0\170773001\Project Data\ArcGIS\APRX\170773001\170773001.aprx

Notes:
1. Imagery provided through Langan's subscription to Nearmap.com. Flown on 06/16/24.
2. All locations of Site reconnaissance observations are approximate.

LANGAN

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Project	Figure Title	Project No.	Figure
PROPOSED BALLY'S CASINO – RING ROAD AT FERRY POINT PARK BRONX NEW YORK	SUBJECT PROPERTY LAYOUT	170773001	2
		Date 8/15/2024	
		Scale 1" = 300 feet	
		Drawn By MG	

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Path: \\langan.com\data\NYC\data0\170773001\Project Data\ArcGIS\APRX\170773001\170773001.aprx

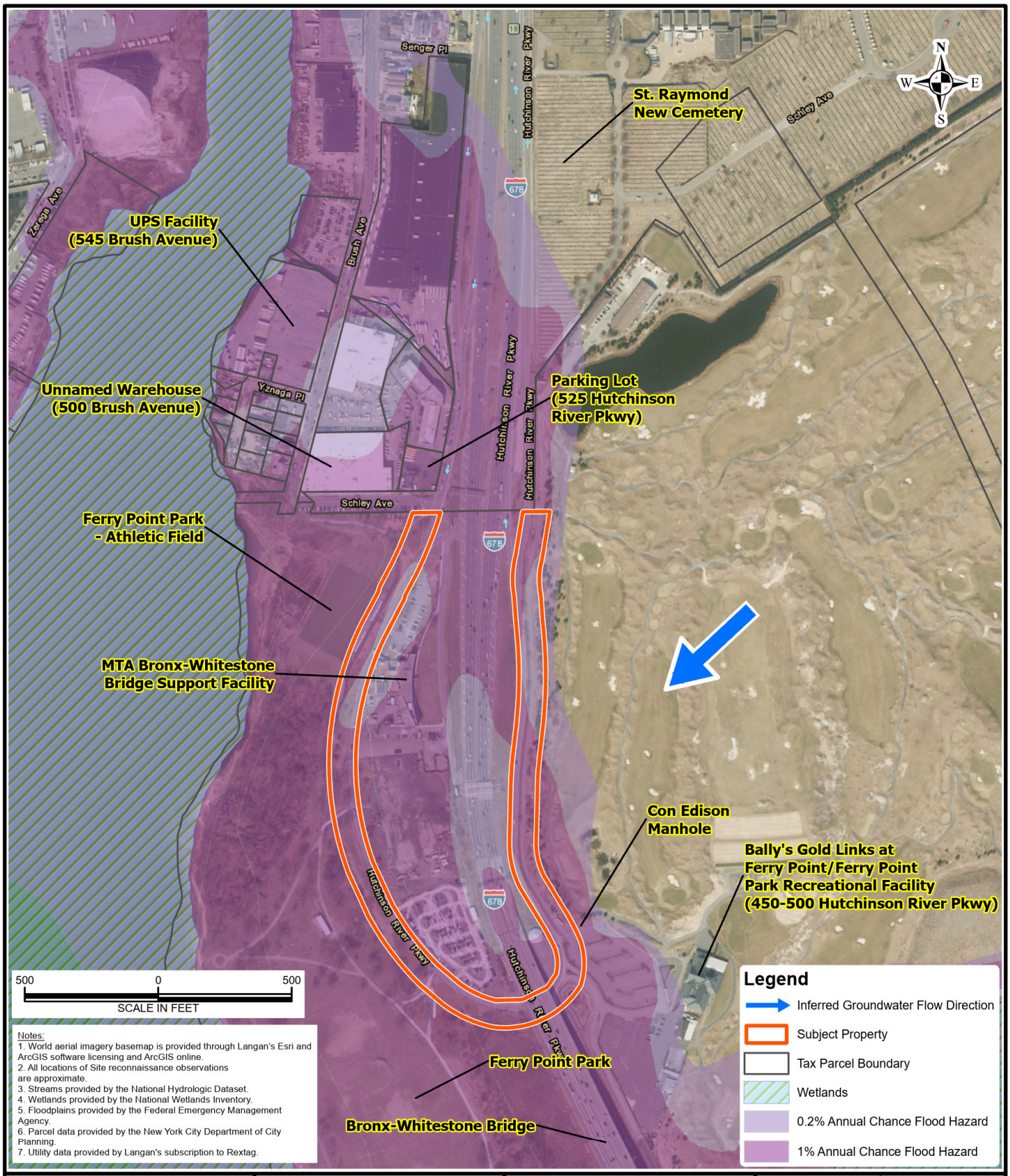

Notes:
1. World aerial imagery basemap is provided through Langan's Esri and ArcGIS software licensing and ArcGIS online.
2. All locations of Site reconnaissance observations are approximate.
3. Streams provided by the National Hydrologic Dataset.
4. Wetlands provided by the National Wetlands Inventory.
5. Floodplains provided by the Federal Emergency Management Agency.
6. Parcel data provided by the New York City Department of City Planning.
7. Utility data provided by Langan's subscription to Rextag.

LANGAN
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Project	Figure Title	Project No.	Figure
PROPOSED BALLY'S CASINO – RING ROAD AT FERRY POINT PARK BRONX NEW YORK	NEARBY PROPERTIES MAP	170773001	3
		Date: 9/10/2024	
		Scale: 1" = 500 feet	
		Drawn By: MG	

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Appendix B Agency Records and Other Reports

Kaitlyn Gioia

From: donotreply@records.nyc.gov
Sent: Wednesday, August 7, 2024 2:44 PM
To: Kaitlyn Gioia
Subject: [External] [OpenRecords] Request FOIL-2024-826-03671 Submitted to Department of Environmental Protection (DEP)

Your request FOIL-2024-826-03671 has been successfully submitted to the Department of Environmental Protection (DEP). The details of your request are shown below.

Request Title: Environmental Conditions

Request Description: Re: Freedom of Information Request 450 Hutchinson River Parkway Block 5622, Lot 1 Bronx, New York Langan Project No. 170773001 Dear Sir or Madam: Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting any information or copies of files regarding environmental conditions on the above property, such as environmental permits, notices of violations, spill/discharge incidents, storage or disposal of hazardous substances, Underground Storage Tanks (USTs), Leaking Underground Storage Tanks (LTANKs), asbestos abatement, and any other environmental reports that your department may have. The Subject Property is located at 450 Hutchinson River Parkway in the Bronx, New York and is identified as Tax Block 5622, Lot 1. The site is located entirely within Ferry Point Park and is bisected by Hutchinson River Expressway. Please contact me at 212-479-5531 with any questions or send your response to my attention at kgioia@langan.com or at the below address: Langan Engineering and Environmental Services, P.C. 21 Penn Plaza 360 West 31st Street, 8th floor New York, New York 10001-2727 Thank you in advance for your cooperation. Sincerely, Langan Engineering, Environmental, Surveying Landscape Architecture, and Geology, D.P.C. Kaitlyn Gioia Senior Staff Scientist

Requester's Contact Information

Name:
Kaitlyn Gioia
Title:
Senior Staff Scientist
Organization:
Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology, D.P.C.
Email:
kgioia@langan.com
Phone Number:
(212) 479-5531
Fax Number:
Not provided
Street Address (line 1):
360 West 31st Street, 8th Floor
Street Address (line 2):
Not provided
City:
New York
State:
NY
Zip Code:
10001

You can view the request and take any necessary action at the following webpage: https://a860-openrecords.nyc.gov/request/view/FOIL-2024-826-03671.

Kaitlyn Gioia

From: donotreply@records.nyc.gov
Sent: Friday, August 9, 2024 6:13 AM
To: Kaitlyn Gioia
Subject: [External] [OpenRecords] Request FOIL-2024-826-03671 Acknowledged

The Department of Environmental Protection (DEP) has **acknowledged** your FOIL request FOIL-2024-826-03671.

You can expect a response on or about Tuesday, November 12, 2024.

Please visit FOIL-2024-826-03671 to view additional information and take any necessary action.

Kaitlyn Gioia

From: donotreply@records.nyc.gov
Sent: Monday, August 12, 2024 11:30 AM
To: Kaitlyn Gioia
Subject: [External] [OpenRecords] Request FOIL-2024-826-03671 Closed

The Department of Environmental Protection (DEP) has **closed** your FOIL request FOIL-2024-826-03671 for the following reasons:

- A diligent search for records responsive to your request did not locate any such records. Accordingly, your request is denied.

You may appeal the decision to deny access to material that was redacted in part or withheld in entirety by contacting the agency's FOIL Appeals Officer: foilappeals@dep.nyc.gov within 30 days.

Kaitlyn Gioia

From: recordsaccess <recordsaccess@health.nyc.gov>
Sent: Thursday, August 8, 2024 2:32 PM
To: Philip Lynch
Cc: Kaitlyn Gioia
Subject: [External] Re: [EXTERNAL] 450 Hutchinson River Parkway, Block 5622, Lot 1, Bronx, NY

Dear Philip Lynch

The NYC Department of Health and Mental Hygiene is retuning your Freedom of Information Law request with the instructions for resubmitting it below. Please follow the instructions and we will be able to process the request. If you have any questions about these instructions, please contact the Records Access Officer at bodonnell1@health.nyc.gov

Phase I Environmental Site Assessment (ESA) Records
All data related to indoor environmental complaints is here. Before submitting a FOIL request for Environmental Site Assessment records, you must check this database to see if the site you are investigating has any entries.

1. If your site has no entries, then we have no indoor environmental complaint records and your ESA FOIL request should ***only*** concern well sites. Please see below for information on accessing other records that may be relevant to your ESA investigation.

2. If your site does have an entry or entries, you will need to provide the date(s) of the indoor environmental complaint(s) for us to locate the related records.

3. ***The Department will not process any ESA FOIL requests without the information required above.***

The following are some common environmental issues that are addressed by *other agencies* that may be relevant to your ESA investigation:

- Chemical spills that impact outdoor areas – NYS Department of Environmental Conservation (NYS DEC), NYS Department of Health, and NYC Department of Environmental Protection (NYC DEP)
- Underground storage tanks – NYS DEC and NYC DEP
- Community air impacts – NYC DEP
- Sewers – NYC DEP
- Environmental impacts to parkland – NYC Parks Department

Please contact these agencies for records. For other NYC agencies, you can submit FOIL requests here

Thank you,

FOIL Administration
Office of the General Counsel
NYC Department of Health and Mental Hygiene - City of New York
42-09 28th St.,CN30, Long Island City, NY 11101

Telephone:347-396-6116 **Fax:**347-396-6087
Email: recordsaccess@health.nyc.gov | nyc.gov/health

From: Philip Lynch <plynch@Langan.com>
Sent: Wednesday, August 7, 2024 4:56 PM
To: recordsaccess <recordsaccess@health.nyc.gov>
Cc: Kaitlyn Gioia <kgioia@langan.com>
Subject: [EXTERNAL] 450 Hutchinson River Parkway, Block 5622, Lot 1, Bronx, NY

Re: Freedom of Information Request
450 Hutchinson River Parkway
Block 5622, Lot 1
Bronx, New York
Langan Project No. 170773001

Dear Sir or Madam:

Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting any information or copies of files regarding environmental conditions on the above property, such as environmental permits, notices of violations, spill/discharge incidents, storage or disposal of hazardous substances, Underground Storage Tanks (USTs), Leaking Underground Storage Tanks (LTANKs), asbestos abatement, and any other environmental reports that your department may have. There are no listings in the database for this site. Therefore, we are looking for information on whether it is a well site.

The Subject Property is located at **450 Hutchinson River Parkway** in the **Bronx, New York** and is identified as Tax **Block 5622, Lot 1**. The site is located entirely within Ferry Point Park and is bisected by Hutchinson River Expressway.

Please contact me at 212-479-5531 with any questions or send your response to my attention at kgioia@langan.com or at the below address:

Langan Engineering and Environmental Services, P.C.
21 Penn Plaza
360 West 31st Street, 8th floor
New York, New York 10001-2727

Thank you in advance for your cooperation.

Sincerely,

Langan Engineering, Environmental, Surveying
Landscape Architecture, and Geology, D.P.C.

Kaitlyn Gioia
Senior Staff Scientist

Philip Lynch
Administrative Assistant

LANGAN

Direct: 212.479.5469

Mobile: 914.882.2582
File Sharing Link

Phone: 212.479.5400 Fax: 212.479.5444
360 West 31st Street
8th Floor
New York, NY 10001-2727
www.langan.com

NEW YORK NEW JERSEY CONNECTICUT MASSACHUSETTS PENNSYLVANIA VIRGINIA WASHINGTON, DC
OHIO ILLINOIS NORTH CAROLINA TENNESSEE FLORIDA TEXAS ARIZONA COLORADO UTAH WASHINGTON CALIFORNIA
ATHENS CALGARY DUBAI LONDON PANAMA

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Kaitlyn Gioia

From: recordsaccess <recordsaccess@health.nyc.gov>
Sent: Tuesday, August 13, 2024 1:44 PM
To: Kaitlyn Gioia; Philip Lynch
Subject: [External] FOIL Control #: 2024FR01115

FOIL Control #: 2024FR01115

Dear Kaitlyn Gioia

The NYC Department of Health and Mental Hygiene (DOHMH) acknowledges receipt of your Freedom of Information Law request. It has been assigned the above-noted control number and has been forwarded to the following bureau for processing:

Environmental Health Services
Sheba Taylor-Medina, e-mail: staylor2@health.nyc.gov

You should receive a response from the program/bureau within twenty(20) business days. Please note that as of January 1, 2019, the Department charges the statutorily allowable fee of 25¢ per page for FOIL responses of records maintained in hard copy format only. You will be advised by the program/bureau of the fee that is due and, upon receipt of your payment by check or money order, the copies will be forwarded to you.
All inquiries about the status of your request should be made with the program/bureau and control number noted above.

Thank you,

FOIL Administration
Office of the General Counsel
NYC Department of Health and Mental Hygiene - City of New York
42-09 28th St.,CN30, Long Island City, NY 11101
Telephone:347-396-6116 **Fax:**347-396-6087
Email: recordsaccess@health.nyc.gov | nyc.gov/health

From: Kaitlyn Gioia <kgioia@langan.com>
Sent: Monday, August 12, 2024 9:30 AM
To: recordsaccess <recordsaccess@health.nyc.gov>; Philip Lynch <plynch@Langan.com>
Subject: RE: [EXTERNAL] 450 Hutchinson River Parkway, Block 5622, Lot 1, Bronx, NY

Good morning FOIL Administration team,

To clarify our request below, there are no listings in the database for this site. Therefore, we are looking for information on whether it is a well site. Let me know if you need any additional information to process this request.

Thank you!

Kaitlyn Gioia
Senior Staff Scientist

LANGAN

Direct: 212.479.5531
Mobile: 516.913.3464
File Sharing Link
www.langan.com
NEW YORK NEW JERSEY CONNECTICUT MASSACHUSETTS PENNSYLVANIA VIRGINIA WASHINGTON, DC
OHIO ILLINOIS NORTH CAROLINA TENNESSEE FLORIDA TEXAS ARIZONA COLORADO UTAH WASHINGTON CALIFORNIA
ATHENS CALGARY DUBAI LONDON PANAMA

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- Underground storage tanks – NYS DEC and NYC DEP
- Community air impacts – NYC DEP
- Sewers – NYC DEP
- Environmental impacts to parkland – NYC Parks Department

Please contact these agencies for records. For other NYC agencies, you can submit FOIL requests here

Thank you,

FOIL Administration
Office of the General Counsel
NYC Department of Health and Mental Hygiene - City of New York
42-09 28th St.,CN30, Long Island City, NY 11101
Telephone:347-396-6116 **Fax:**347-396-6087
Email: recordsaccess@health.nyc.gov | nyc.gov/health

From: Philip Lynch <plynch@Langan.com>
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To: recordsaccess <recordsaccess@health.nyc.gov>
Cc: Kaitlyn Gioia <kgioia@langan.com>
Subject: [EXTERNAL] 450 Hutchinson River Parkway, Block 5622, Lot 1, Bronx, NY

Re: Freedom of Information Request
450 Hutchinson River Parkway
Block 5622, Lot 1
Bronx, New York
Langan Project No. 170773001

Dear Sir or Madam:

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The Subject Property is located at **450 Hutchinson River Parkway** in the **Bronx, New York** and is identified as Tax **Block 5622, Lot 1**. The site is located entirely within Ferry Point Park and is bisected by Hutchinson River Expressway.

Please contact me at 212-479-5531 with any questions or send your response to my attention at kgioia@langan.com or at the below address:

Langan Engineering and Environmental Services, P.C.
21 Penn Plaza
360 West 31st Street, 8th floor
New York, New York 10001-2727

Thank you in advance for your cooperation.

Sincerely,

Langan Engineering, Environmental, Surveying
Landscape Architecture, and Geology, D.P.C.

Kaitlyn Gioia
Senior Staff Scientist

Philip Lynch
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Appendix C Site Reconnaissance Checklist and Photographs

LANGAN

PHASE I ESA SITE RECONNAISSANCE CHECKLIST

GENERAL INFORMATION
Langan personnel: Kaitlyn Gioia
Date of site reconnaissance: August 9, 2024
Business name / subject property occupant: Ferry Point Park – Ring Road
Full subject property address: 450 Hutchinson River Parkway, Bronx, NY
Weather conditions: ~80°F - Rainy

Features, Activities, Uses, and Conditions	Identified/Observed?		Report Section(s)
General Subject Property Setting	**Yes**	**No**	
Current use(s) of the subject property	☒	☐	2.0
Past use(s) of the subject property	☐	☒	3.1
Current use(s) of adjoining properties	☒	☐	4.1
Past use(s) of adjoining properties	☐	☒	4.2
Current or past uses in the surrounding area	☒	☐	4.1 and 4.2
Geologic, hydrogeologic, hydrologic, and topographic conditions	☒	☐	2.2
Structures and other improvements at the subject property	☒	☐	2.3
Roads	☒	☐	2.3
Potable water supply/source for the subject property	☒	☐	2.4
Sewage disposal system for the subject property	☐	☒	2.4

Interior/Exterior Features	At Interior?		At Exterior?		Report Section(s) (if yes)
	Yes	**No**	**Yes**	**No**	
Hazardous substances and petroleum products in connection with identified uses	☐	☒	☐	☒	2.5
Storage tanks	☐	☒	☐	☒	2.5.1 and 2.5.2
Strong, pungent, or noxious odors and their sources	☐	☒	☐	☒	2.6
Standing surface water and pools or sumps containing liquids likely to be hazardous substances or petroleum products	☐	☒	☐	☒	2.5
Drums, totes, and intermediate bulk containers	☐	☒	☐	☒	2.5.3
Hazardous substance and petroleum product containers not in connection with identified uses	☐	☒	☐	☒	2.5.4
Unidentified substance containers	☐	☒	☐	☒	2.5.4
PCB-containing items	☐	☒	☐	☒	2.5.4
Heating/cooling	☐	☒	☐	☒	2.4
Stains or corrosion on floors, walls, or ceilings	☐	☒	☐	☒	2.5 and 2.7
Drains and sumps	☐	☒	☒	☐	2.8
Pits, ponds, or lagoons	☐	☒	☐	☒	2.2.3
Stained soil or pavement	☐	☒	☐	☒	2.5 and 2.7
Stressed vegetation	☐	☒	☐	☒	2.9
Solid waste	☐	☒	☐	☒	2.7
Water/wastewater	☐	☒	☐	☒	2.8 and 2.9
Wells	☐	☒	☐	☒	2.2.3
Septic systems or cesspools	☐	☒	☐	☒	2.8

LANGAN

Site Reconnaissance Photographs

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	1

Direction Photo Taken:

South

Description:

Entrance to subject property.

Date	Photo No.
8/9/2024	2

Direction Photo Taken:

Northeast

Description:

Pedestrian walkways and guardrails throughout the subject property.

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	3

Direction Photo Taken:

Southeast

Description:

General view of the western leg of the subject property.

Date	Photo No.
8/9/2024	4

Direction Photo Taken:

East

Description:

Pedestrian walkway and adjoining parking field for Ferry Point Park.

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	5

Direction Photo Taken:

Northeast

Description:

Representative view of hydrants located throughout the subject property.

Date	Photo No.
8/9/2024	6

Direction Photo Taken:

Northeast

Description:

General view of the eastern leg of the subject property.

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	7

Direction Photo Taken:

South

Description:

Exit from the subject property.

Date	Photo No.
8/9/2024	8

Direction Photo Taken:

Northeast

Description:

Representative view of drainage structures and NYCDEP infrastructure throughout the subject property.

Date	Photo No.
8/9/2024	9

Direction Photo Taken:

Southeast, down

Description:

Representative view of 1-inch-diameter holes adjacent to the metal guardrail throughout the eastern leg of the subject property.

Date	Photo No.
8/9/2024	10

Direction Photo Taken:

East

Description:

Adjoining Bronx-Whitestone Bridge and parking field for Ferry Point Park.

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	11

Direction Photo Taken:

Northeast

Description:

Adjoining Con Edison structures.

Date	Photo No.
8/9/2024	12

Direction Photo Taken:

Northwest

Description:

Adjoining Interstate 678.

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	13

Direction Photo Taken:

East

Description:

Adjoining parking field for Ferry Point Park.

Date	Photo No.
8/9/2024	14

Direction Photo Taken:

West

Description:

Bronx-Whitestone Bridge MTA Building

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	15

Direction Photo Taken:

Southeast

Description:

Alternate view of Bronx-Whitestone Bridge MTA Building.

Date	Photo No.
8/9/2024	16

Direction Photo Taken:

Northwest

Description:

Adjoining athletic field.

Date	Photo No.
8/9/2024	17

Direction Photo Taken:

West

Description:

Adjoining commercial warehouse and parking lot.

Date	Photo No.
8/9/2024	18

Direction Photo Taken:

Northeast

Description:

Adjoining toll plaza for the Bronx-Whitestone Bridge.

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	19

Direction Photo Taken:

East

Description:

Adjoining Bally's Golf Links at Ferry Point.

Date	Photo No.
8/9/2024	20

Direction Photo Taken:

East

Description:

Adjoining Ferry Point Park.

Appendix D User Provided Information

Docusign Envelope ID: 3CE5B05B-9955-4E49-BEED-0490AFAA772C

Clear Form

ASTM E1527-21 User Questionnaire

Please complete the below form and return to Langan.

Providing the following information (if available) to the environmental professional (Langan) is one of the requirements to qualify for one of the Landowner Liability Protections (LLP) offered under CERCLA. Missing or incomplete information for questions 1 through 6 could result in a determination that "all appropriate inquiry" is not complete. Additional information should be provided for "Yes" answers where relevant.

General Information

User/Client Names: Bally's Golf Links at Ferry Point

Reason for the Phase I ESA: New Gaming Resort Development

Type of property: Casino Hotel

Type of property transaction (e.g. sale, purchase, exchange): New Zoning

Subject property address (provide documentation of subject property boundary):
500 Hutchinson River Parkway Bronx, New York 10465

Site Contact and Contact Information: Brian Crowell General Manager

Relying Party(ies): _____

Required Information

(1.) Environmental liens that are filed or recorded against the subject property (40 CFR 312.25).

Did a search of recorded land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the subject property under federal, tribal, state or local law?

Yes ○ No ●

(2.) Activity and use limitations that are in place on the subject property or that have been filed or recorded against the subject property (40 CFR 312.26(a)(1)(v) and (vi)).

Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the subject property and/or have been filed or recorded against the subject property under federal, tribal, state or local law?

Yes ○ No ●

(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).

Do you have any specialized knowledge or experience related to the subject property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the subject property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

Yes ● No ○

(4.) Relationship of the purchase price to the fair market value of the subject property if it were not contaminated (40 CFR 312.29).

Does the purchase price being paid for this subject property reasonably reflect the fair market value of the subject property?

Yes ● No ○

If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the subject property?

Yes ○ No ●

Docusign Envelope ID: 3CE5B05B-9955-4E49-BEED-0490AFAA772C

(5.) Commonly known or reasonably ascertainable information about the subject property (40 CFR 312.30).

	Yes	No
Are you aware of commonly known or reasonably ascertainable information about the subject property that would help the environmental professional to identify conditions indicative of releases or threatened releases?	●	○
For example,		
(a.) Do you know the past uses of the subject property?	●	○
(b.) Do you know of specific chemicals that are present or once were present at the subject property?	○	●
(c.) Do you know of spills or other chemical releases that have taken place at the subject property?	○	●
(d.) Do you know of any environmental cleanups that have taken place at the subject property?	○	●

(6.) The degree of obviousness of the presence or likely presence of contamination at the subject property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

	Yes	No
Based on your knowledge and experience related to the subject property, are there any obvious indicators that point to the presence or likely presence of releases at the subject property?	○	●
Do you have knowledge or experience with the subject property that may be pertinent to the environmental professional (for example, copies of any available prior environmental site assessment reports, documents, correspondence, etc., concerning the property and its environmental condition)?	●	○

(7.) Proceedings Involving the Subject Property Questions (Section 10.9 of ASTM E1527-21 and Section 10.10 of ASTM E2247-16)

	Yes	No
Do you know of:		
(a.) Any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the subject property?	○	●
(b.) Any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, at, or from the subject property?	○	●
(c) Any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	○	●

Signature

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By: Mark Schlang

Print/Type Name: DocuSigned by: Mark Schlang 50B69DB17FE048C...

Title: Vice President of Architecture

Company: Bally's Corporation

Relationship to Client/User: Employee

Date: 8/16/24

LANGAN

ASTM PRACTICE E 1527-13:
OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

Project Location/Address: Ferry Point Golf Course
500 Hutchinson River Parkway, Bronx, NY 10465

ASTM E-1527-13, Section 10.9

	Yes	No
Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	☐	☒

ASTM E-1527-13, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided
Environmental site assessment reports	☐	☐	☒
Environmental compliance audit reports	☐	☐	☒
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits)	☐	☐	☒
Registrations for underground and aboveground storage tanks	☐	☒	☐
Material safety data sheets	☐	☐	☒
Community-right-to-know plan	☒	☐	☐
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, facility response plans, etc.	☐	☐	☒

LANGAN

	Unaware	Document Exists	Copy will be provided
Reports regarding hydrogeologic conditions on the property or surrounding area	☐	☐	☒
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	☒	☐	☐
Hazardous waste generator notices or reports	☐	☒	☐
Geotechnical studies	☐	☐	☒
Risk Assessments	☒	☐	☐
Recorded Activity and Use Limitations	☐	☐	☒
Environmental Cleanup Reports	☐	☐	☒

Do you have contact information for the prior owner of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Owner's Name _____

Contact person _____

Address_____

_____

Telephone _____

Do you have contact information for the prior occupant of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Occupant's Name_____

Contact person _____

Address _____

_____

Telephone _____

Do you have information on the prior facility manager of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

LANGAN

Prior Facility Manager's Name _____

Contact person _____

Address _____

_____

Telephone _____

This form was completed by:

Property Owner ☒ Operator ☐ Key Site Manager ☐ User ☐ EP ☐

Name: Kay Zias, Director of ERU, NYC Department of Parks and Recreation

Address: 117-2 Roosevelt Avenue, Flushing, NY 11368

_____

Signature: Kay Zias Date: 8/29/2024

Appendix E Environmental Database Report

Proposed Ballys Casino - Ring Road
450 Hutchinson River Parkway
Bronx, NY 10465

Inquiry Number: 7720624.2s
July 29, 2024

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

Physical Setting Source Addendum	**A-1**
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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

450 HUTCHINSON RIVER PARKWAY
BRONX, NY 10465

COORDINATES

Latitude (North):	40.8136930 - 40˚ 48' 49.29''
Longitude (West):	73.8358030 - 73˚ 50' 8.89''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	598189.6
UTM Y (Meters):	4518516.0
Elevation:	16 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	14115946 FLUSHING, NY
Version Date:	2019

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20190809
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
450 HUTCHINSON RIVER PARKWAY
BRONX, NY 10465

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1		450 HUTCHINSON RVR P	NY NYC LAND USE		TP
A2	FERRY POINT PARK REC	500 HUTCHINSON RIVER	NY SPDES	Lower	1 ft.
A3	NYSDOT BIN 55211229	1 HUTCHINSON RIVER P	FINDS	Lower	1 ft.
A4	MANHOLE 15002	80 N HUTCHINSON RIVE	NY Spills	Higher	1 ft.
A5	MTA BRIDGES & TUNNEL	BRONX-WHITESTONE BRI	RCRA-SQG, E MANIFEST, NJ MANIFEST	Lower	1 ft.
A6	NYCP&R - FERRY POINT	500 HUTCHINSON PARKW	FINDS, ECHO	Lower	1 ft.
A7	FERRY POINT PARK GOL	500 HUTCHINSON RIVER	FINDS, ECHO	Lower	1 ft.
A8	NYCP&R - FERRY POINT		PFAS ECHO	Lower	1 ft.
A9	BRONX WHITESTONE BRI	1 HUTCHINSON RIVER P	NY Spills	Lower	1 ft.
10	CON EDISON TRANSFORM	530 HUTCHINSON RIVER	NY Spills	Higher	1 ft.
A11	NYC PARKS-FERRY POIN	500 HUTCHINSON RIVER	FINDS, ECHO	Lower	1 ft.
A12	BRONX WHITESTONE BRI	1 HUTCHINSON RIVER P	UST FINDER RELEASE	Lower	1 ft.
A13	FERRY POINT PARK GOL	500 HUTCHINSON RIVER	NY Spills	Lower	1 ft.
A14	NYC PARKS-FERRY POIN		PFAS ECHO	Lower	1 ft.
B15	WHITESTONE BRIDGE -	WHITESTONE BR	NY LTANKS	Lower	109, 0.021, NNW
B16	WHITESTONE BRIDGE	TOLL PLAZA	NY Spills	Lower	109, 0.021, NNW
17	CABLEVISION	500-510 BRUSH AVENUE	NY AST	Lower	279, 0.053, NNW
C18	CON EDISON	555 HUTCHINSON RIVER	RCRA NonGen / NLR	Lower	418, 0.079, NNW
C19	VAULT #2232	555 HUTCHINSON RIVER	NY AST, NY Spills	Lower	418, 0.079, NNW
D20	BRONX WHITESTONE BRI	ONE HUTCHINSON RIVER	NY UST	Lower	434, 0.082, NW
D21	BRONX WHITESTONE BRI	ONE HUTCHINSON RIVER	NY AST	Lower	434, 0.082, NW
E22	MTA BRIDGES & TUNNEL	1 HUTCHINSON RIVER P	NY LTANKS, NY Spills, NY MANIFEST	Higher	597, 0.113, ESE
E23	FARRY POINT PARK	WHITSTONE BRIDGE	NY Spills	Higher	597, 0.113, ESE
F24	LIBERTY MECHANICAL/C	550 BRUSH AVENUE	NY TANKS, NY NYC LAND USE	Lower	601, 0.114, NNW
25	FERRY POINT PARK GOL	700 HUTCHINSON RIVER	NY AST	Lower	639, 0.121, North
E26	MTA BRIDGE BIN 55211	1 HUTCHINSON RIVER P	RCRA-LQG, E MANIFEST, PA MANIFEST, NJ MANIFEST	Higher	679, 0.129, East
F27	545 BRUSH AVE/BX/U.P	545 BRUSH AVENUE	NY LTANKS	Lower	694, 0.131, NNW
28	FERRY POINT PARK	10 HUTCHINSON ROVER	NY SWF/LF, NY ILI	Lower	728, 0.138, SSW
F29	UNITED PARCEL SERVIC	BRUSH AVE	RCRA-SQG, NY CBS AST, E MANIFEST, NY MANIFEST, NJ...	Lower	779, 0.148, NNW
F30	UPS-BRUSH AVENUE	545 BRUSH AVE	NY TANKS, NY SPDES	Lower	779, 0.148, NNW
F31	UNITED PARCEL SERVIC	545 BRUSH AVENUE	NY UST	Lower	779, 0.148, NNW
F32	UPS	545 BRUSH AVE	NY LTANKS, NY CBS, NY Spills	Lower	779, 0.148, NNW
F33	UNITED PARCEL SERVIC	545 BRUSH AVENUE	NY AST	Lower	779, 0.148, NNW
F34	UNITED PARCEL SERVIC	545 BRUSH AVENUE	NY AST	Lower	779, 0.148, NNW
F35	UNITED PARCEL SERVIC	545 BRUSH AVENUE	UST FINDER	Lower	779, 0.148, NNW
36	N Y BRUSH LLC	650 BRUSH AVE	RCRA-LQG, NY MANIFEST	Lower	1083, 0.205, NNW
37	H.O. PENN MACHINERY	699 BRUSH AVE	NY LTANKS, NY TANKS, NY Spills, NY SPDES	Lower	1664, 0.315, NNW
G38	VERIZON NEW YORK INC	500 ZEREGA AVENUE	NY LTANKS, NY TANKS, NY NYC LAND USE	Lower	1672, 0.317, NW
G39	500 ZEREGA AVENUE	500 ZEREGA AVENUE	UST FINDER RELEASE	Lower	1672, 0.317, NW

MAPPED SITES SUMMARY

Target Property Address:
450 HUTCHINSON RIVER PARKWAY
BRONX, NY 10465

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
40	NYCDOS FERRY POINT P	44 BEAVER ST - 6TH F	NY SWF/LF	Higher	1757, 0.333, South
41	RAILROAD MAINTENANCE	432 ZEREGA AVENUE	NY SWF/LF, NY NYC LAND USE	Lower	1784, 0.338, WNW
42	BLOCK 3579, LOT 1	BLOCK 3579, LOT 1	NY VCP	Lower	1906, 0.361, NNW
43	RANDALL AVE AND ZERE	HAVMEYER AVE, RANDEL	NY SWF/LF, NY ILI	Higher	1982, 0.375, NW
44	EASTERN ECOLOGY COMP	665-637 ZEREGA AVE	NY SWF/LF, NY ILI	Lower	2063, 0.391, NNW
45	EARTH BANK COMPANY I	748 BRUSH AVENUE	NY SWF/LF, NY NYC LAND USE	Higher	2155, 0.408, North
46	AAA THROGGS NECK		FUDS	Higher	4255, 0.806, East

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
450 HUTCHINSON RVR P 450 HUTCHINSON RVR P BRONX, NY 10465	NY NYC LAND USE	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL..... National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS..... Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

EXECUTIVE SUMMARY

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROLS..... Institutional Controls Sites List

Federal ERNS list

ERNS..... Emergency Response Notification System

Lists of state- and tribal hazardous waste facilities

NY SHWS..... Inactive Hazardous Waste Disposal Sites in New York State

Lists of state and tribal leaking storage tanks

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
NY HIST LTANKS..... Listing of Leaking Storage Tanks

Lists of state and tribal registered storage tanks

FEMA UST..... Underground Storage Tank Listing
NY CBS UST..... Chemical Bulk Storage Database
NY MOSF UST..... Major Oil Storage Facilities Database
NY MOSF..... Major Oil Storage Facility Site Listing
NY MOSF AST..... Major Oil Storage Facilities Database
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

NY RES DECL..... Restrictive Declarations Listing
NY ENG CONTROLS..... Registry of Engineering Controls
NY INST CONTROL..... Registry of Institutional Controls

Lists of state and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield sites

NY BROWNFIELDS..... Brownfields Site List
NY ERP..... Environmental Restoration Program Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

NY SWRCY..... Registered Recycling Facility List
NY SWTIRE..... Registered Waste Tire Storage & Facility List

EXECUTIVE SUMMARY

INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
ODI	Open Dump Inventory
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	Delisted National Clandestine Laboratory Register
NY DEL SHWS	Delisted Registry Sites
US CDL	National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

NY HIST UST	Historical Petroleum Bulk Storage Database
NY HIST AST	Historical Petroleum Bulk Storage Database

Local Land Records

NY LIENS	Spill Liens Information
LIENS 2	CERCLA Lien Information

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
NY Hist Spills	SPILLS Database
NY SPILLS 90	SPILLS 90 data from FirstSearch
NY SPILLS 80	SPILLS 80 data from FirstSearch

Other Ascertainable Records

DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations

EXECUTIVE SUMMARY

FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
MINES MRDS	Mineral Resources Data System
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
PFAS NPL	Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES	Federal Sites PFAS Information
PFAS TSCA	PFAS Manufacture and Imports Information
PFAS TRIS	List of PFAS Added to the TRI
PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR	PFAS Contamination Site Location Listing
PFAS WQP	Ambient Environmental Sampling for PFAS
PFAS NPDES	Clean Water Act Discharge Monitoring Information
PFAS PROJECT	NORTHEASTERN UNIVERSITY PFAS PROJECT
PFAS ECHO FIRE TRAIN	Facilities in Industries that May Be Handling PFAS Listing
PFAS PT 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing
BIOSOLIDS	ICIS-NPDES Biosolids Facility Data
NY PFAS	PFAS Contamination Site Location Listing
NY AIRS	Air Emissions Data
NY COAL ASH	Coal Ash Disposal Site Listing
NY DRYCLEANERS	Registered Drycleaners
NY E DESIGNATION	E DESIGNATION SITE LISTING
NY Financial Assurance	Financial Assurance Information Listing
NY HSWDS	Hazardous Substance Waste Disposal Site Inventory
NY LEAD	Lead-based Paint Testing Results
NY VAPOR REOPENED	Vapor Intrusion Legacy Site List
NY UIC	Underground Injection Control Wells
NY COOLING TOWERS	Registered Cooling Towers
NY MGP	Manufactured Gas Plants Listing
NY NYC OER	OER Cleanup Sites Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

NY RGA HWS	Recovered Government Archive State Hazardous Waste Facilities List
NY RGA LF	Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal RCRA generators

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 06/03/2024 has revealed that there are 2 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGE BIN 55211 EPA ID:: NYD982796377	***1 HUTCHINSON RIVER P***	***E 1/8 - 1/4 (0.129 mi.)***	***E26***	***96***

Lower Elevation	Address	Direction / Distance	Map ID	Page
N Y BRUSH LLC EPA ID:: NYR000140368	***650 BRUSH AVE***	***NNW 1/8 - 1/4 (0.205 mi.)***	***36***	***191***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/03/2024 has revealed that there are 2 RCRA-SQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGES & TUNNEL EPA ID:: NYR000154260	***BRONX-WHITESTONE BRI***	***0 - 1/8 (0.000 mi.)***	***A5***	***13***
UNITED PARCEL SERVIC EPA ID:: NYD986900728	***BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F29***	***127***

EXECUTIVE SUMMARY

Lists of state and tribal landfills and solid waste disposal facilities

NY SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the list.

A review of the NY SWF/LF list, as provided by EDR, and dated 03/25/2024 has revealed that there are 6 NY SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NYCDOS FERRY POINT P	44 BEAVER ST - 6TH F	S 1/4 - 1/2 (0.333 mi.)	40	211
RANDALL AVE AND ZERE	***HAVMEYER AVE, RANDEL***	***NW 1/4 - 1/2 (0.375 mi.)***	***43***	***215***
EARTH BANK COMPANY I	***748 BRUSH AVENUE***	***N 1/4 - 1/2 (0.408 mi.)***	***45***	***218***

Lower Elevation	Address	Direction / Distance	Map ID	Page
FERRY POINT PARK	***10 HUTCHINSON ROVER***	***SSW 1/8 - 1/4 (0.138 mi.)***	***28***	***125***
RAILROAD MAINTENANCE	***432 ZEREGA AVENUE***	***WNW 1/4 - 1/2 (0.338 mi.)***	***41***	***212***
EASTERN ECOLOGY COMP	***665-637 ZEREGA AVE***	***NNW 1/4 - 1/2 (0.391 mi.)***	***44***	***216***

Lists of state and tribal leaking storage tanks

NY LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the NY LTANKS list, as provided by EDR, and dated 05/06/2024 has revealed that there are 6 NY LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGES & TUNNEL	***1 HUTCHINSON RIVER P***	***ESE 0 - 1/8 (0.113 mi.)***	***E22***	***56***
Spill Date: 1994-09-19				
Spill Date: 1996-09-24				
Spill Number/Closed Date: 9408139 / 2003-11-06				
Spill Number/Closed Date: 9607895 / 2003-11-06				
Site ID: 249980				
Site ID: 249984				

Lower Elevation	Address	Direction / Distance	Map ID	Page
WHITESTONE BRIDGE -	WHITESTONE BR	NNW 0 - 1/8 (0.021 mi.)	B15	34
Spill Date: 1990-03-19				
Spill Number/Closed Date: 8912020 / 1990-03-19				
Site ID: 295754				
545 BRUSH AVE/BX/U.P	545 BRUSH AVENUE	NNW 1/8 - 1/4 (0.131 mi.)	F27	124
Spill Date: 1989-12-20				
Spill Number/Closed Date: 8909242 / 2003-02-27				
Site ID: 138397				
UPS	***545 BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F32***	***180***
Spill Date: 1989-11-17				
Spill Number/Closed Date: 8908245 / 1992-09-30				

Site ID: 212269

H.O. PENN MACHINERY	***699 BRUSH AVE***	***NNW 1/4 - 1/2 (0.315 mi.)***	***37***	***197***

Spill Date: 1992-04-20
Spill Date: 1997-01-08
Spill Number/Closed Date: 9200766 / 2003-03-07
Spill Number/Closed Date: 9612128 / 2006-12-13
Site ID: 186683
Site ID: 186684

VERIZON NEW YORK INC	***500 ZEREGA AVENUE***	***NW 1/4 - 1/2 (0.317 mi.)***	***G38***	***206***

Spill Date: 1987-08-11
Spill Number/Closed Date: 8703906 / 1996-08-06
Site ID: 270294

Lists of state and tribal registered storage tanks

NY UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the NY UST list, as provided by EDR, has revealed that there are 2 NY UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BRONX WHITESTONE BRI	ONE HUTCHINSON RIVER	NW 0 - 1/8 (0.082 mi.)	D20	44
Database: UST, Date of Government Version: 03/19/2024				
UNITED PARCEL SERVIC	545 BRUSH AVENUE	NNW 1/8 - 1/4 (0.148 mi.)	F31	175
Database: UST, Date of Government Version: 03/19/2024				

NY CBS: These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

A review of the NY CBS list, as provided by EDR, and dated 03/19/2024 has revealed that there is 1 NY CBS site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
UPS	***545 BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F32***	***180***

Facility Status: Unregulated/Closed
CBS Number: 2-000341

NY AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the NY AST list, as provided by EDR, has revealed that there are 6 NY AST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CABLEVISION	500-510 BRUSH AVENUE	NNW 0 - 1/8 (0.053 mi.)	17	36
Database: AST, Date of Government Version: 03/19/2024				

Facility Id: 2-603460				
VAULT #2232	***555 HUTCHINSON RIVER***	***NNW 0 - 1/8 (0.079 mi.)***	***C19***	***41***
Database: AST, Date of Government Version: 03/19/2024				
Facility Id: 2-062987				
BRONX WHITESTONE BRI	ONE HUTCHINSON RIVER	NW 0 - 1/8 (0.082 mi.)	D21	54
Database: AST, Date of Government Version: 03/19/2024				
Facility Id: 2-481645				
FERRY POINT PARK GOL	700 HUTCHINSON RIVER	N 0 - 1/8 (0.121 mi.)	25	91
Database: AST, Date of Government Version: 03/19/2024				
Facility Id: 2-611992				
UNITED PARCEL SERVIC	545 BRUSH AVENUE	NNW 1/8 - 1/4 (0.148 mi.)	F33	186
Database: AST, Date of Government Version: 03/19/2024				
Facility Id: 2-000341				
UNITED PARCEL SERVIC	545 BRUSH AVENUE	NNW 1/8 - 1/4 (0.148 mi.)	F34	187
Database: AST, Date of Government Version: 03/19/2024				
Facility Id: 2-601299				

NY CBS AST: Chemical Bulk Storage Database. Registration data collected as required by 6 NYCRR Part 596. It includes facilities storing hazardous substances listed in 6 NYCRR Part 597, in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size. Includes facilities registered (and closed) since effective date of CBS regulations (July 15, 1988) through the date request is processed.

A review of the NY CBS AST list, as provided by EDR, and dated 01/01/2002 has revealed that there is 1 NY CBS AST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
UNITED PARCEL SERVIC	***BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F29***	***127***
Facility Status: 1				
Facility Status: 1				
CBS Number: 2-000341				

NY TANKS: This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

A review of the NY TANKS list, as provided by EDR, has revealed that there are 2 NY TANKS sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LIBERTY MECHANICAL/C	***550 BRUSH AVENUE***	***NNW 0 - 1/8 (0.114 mi.)***	***F24***	***89***
Database: TANKS, Date of Government Version: 03/19/2024				
Facility Id: 2-080799				
Site Status: Active				
UPS-BRUSH AVENUE	***545 BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F30***	***173***
Database: TANKS, Date of Government Version: 03/19/2024				
Facility Id: 2-258180				
Site Status: Inactive				

EXECUTIVE SUMMARY

Lists of state and tribal voluntary cleanup sites

NY VCP: Voluntary Cleanup Agreements. The voluntary remedial program uses private monies to get contaminated sites remediated to levels allowing for the sites' productive use. The program covers virtually any kind of site and contamination.

A review of the NY VCP list, as provided by EDR, has revealed that there is 1 NY VCP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BLOCK 3579, LOT 1	BLOCK 3579, LOT 1	NNW 1/4 - 1/2 (0.361 mi.)	42	214
Database: VCP, Date of Government Version: 02/06/2024				
Site Code: 58877				

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

NY Spills: Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 05/06/2024 has revealed that there are 8 NY Spills sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MANHOLE 15002	80 N HUTCHINSON RIVE	0 - 1/8 (0.000 mi.)	A4	12
Spill Number/Closed Date: 0805329 / 2008-09-16				
Site ID: 402409				
Spill Date: 2008-08-07				
CON EDISON TRANSFORM	530 HUTCHINSON RIVER	0 - 1/8 (0.000 mi.)	10	27
Spill Number/Closed Date: 1000322 / 2010-04-22				
Site ID: 431484				
Spill Date: 2010-04-08				
MTA BRIDGES & TUNNEL	***1 HUTCHINSON RIVER P***	***ESE 0 - 1/8 (0.113 mi.)***	***E22***	***56***
Spill Number/Closed Date: 0100477 / 2014-03-18				
Spill Number/Closed Date: 9201985 / 2011-11-16				
Spill Number/Closed Date: 9601373 / 2011-11-16				
Spill Number/Closed Date: 9801266 / 2014-03-18				
Spill Number/Closed Date: 9303540 / 2003-11-06				
**Additional key fields are available in the Map Findings section*				
Site ID: 214399				
Site ID: 249978				
Site ID: 249983				
Site ID: 249985				
Site ID: 249979				
**Additional key fields are available in the Map Findings section*				
Spill Date: 2001-04-12				
Spill Date: 1991-06-11				
Spill Date: 1996-04-26				

Spill Date: 1998-04-24
Spill Date: 1993-06-17
**Additional key fields are available in the Map Findings section*

FARRY POINT PARK Spill Number/Closed Date: 0012477 / 2003-06-09 Site ID: 207749 Spill Date: 2001-02-21	WHITSTONE BRIDGE	ESE 0 - 1/8 (0.113 mi.)	E23	88

Lower Elevation	Address	Direction / Distance	Map ID	Page
BRONX WHITESTONE BRI Spill Number/Closed Date: 1109651 / 2012-01-18 Site ID: 457431 Spill Date: 2011-11-02	1 HUTCHINSON RIVER P	0 - 1/8 (0.000 mi.)	A9	26
FERRY POINT PARK GOL Spill Number/Closed Date: 0913675 / 2010-03-25 Site ID: 426631 Spill Date: 2010-01-10	500 HUTCHINSON RIVER	0 - 1/8 (0.000 mi.)	A13	31
WHITESTONE BRIDGE Spill Number/Closed Date: 0011525 / 2001-06-01 Site ID: 100434 Spill Date: 2001-01-25	TOLL PLAZA	NNW 0 - 1/8 (0.021 mi.)	B16	35
VAULT #2232 Spill Number/Closed Date: 0813834 / 2009-06-08 Site ID: 411543 Spill Date: 2009-03-23	***555 HUTCHINSON RIVER***	***NNW 0 - 1/8 (0.079 mi.)***	***C19***	***41***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/03/2024 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON EPA ID:: NYP004164521	555 HUTCHINSON RIVER	NNW 0 - 1/8 (0.079 mi.)	C18	39

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 01/30/2024 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AAA THROGGS NECK		E 1/2 - 1 (0.806 mi.)	46	220

EXECUTIVE SUMMARY

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 02/09/2024 has revealed that there are 4 FINDS sites within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NYSDOT BIN 55211229 Registry ID:: 110070754377	1 HUTCHINSON RIVER P	0 - 1/8 (0.000 mi.)	A3	11
NYCP&R - FERRY POINT Registry ID:: 110039573832	***500 HUTCHINSON PARKW***	***0 - 1/8 (0.000 mi.)***	***A6***	***23***
FERRY POINT PARK GOL Registry ID:: 110019713684	***500 HUTCHINSON RIVER***	***0 - 1/8 (0.000 mi.)***	***A7***	***24***
NYC PARKS-FERRY POIN Registry ID:: 110019835188	***500 HUTCHINSON RIVER***	***0 - 1/8 (0.000 mi.)***	***A11***	***28***

ECHO: ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

A review of the ECHO list, as provided by EDR, and dated 06/23/2024 has revealed that there are 3 ECHO sites within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NYCP&R - FERRY POINT Registry ID: 110039573832	***500 HUTCHINSON PARKW***	***0 - 1/8 (0.000 mi.)***	***A6***	***23***
FERRY POINT PARK GOL Registry ID: 110019713684	***500 HUTCHINSON RIVER***	***0 - 1/8 (0.000 mi.)***	***A7***	***24***
NYC PARKS-FERRY POIN Registry ID: 110019835188	***500 HUTCHINSON RIVER***	***0 - 1/8 (0.000 mi.)***	***A11***	***28***

PFAS ECHO: Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

A review of the PFAS ECHO list, as provided by EDR, and dated 07/01/2024 has revealed that there are 2 PFAS ECHO sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NYCP&R - FERRY POINT		0 - 1/8 (0.000 mi.)	A8	24
NYC PARKS-FERRY POIN		0 - 1/8 (0.000 mi.)	A14	32

EXECUTIVE SUMMARY

UST FINDER: EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

A review of the UST FINDER list, as provided by EDR, and dated 06/08/2023 has revealed that there is 1 UST FINDER site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
UNITED PARCEL SERVIC	545 BRUSH AVENUE	NNW 1/8 - 1/4 (0.148 mi.)	F35	190

UST FINDER RELEASE: US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

A review of the UST FINDER RELEASE list, as provided by EDR, and dated 06/08/2023 has revealed that there are 2 UST FINDER RELEASE sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BRONX WHITESTONE BRI	1 HUTCHINSON RIVER P	0 - 1/8 (0.000 mi.)	A12	29
500 ZEREGA AVENUE	500 ZEREGA AVENUE	NW 1/4 - 1/2 (0.317 mi.)	G39	210

E MANIFEST: EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

A review of the E MANIFEST list, as provided by EDR, and dated 07/24/2023 has revealed that there are 3 E MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGE BIN 55211	***1 HUTCHINSON RIVER P***	***E 1/8 - 1/4 (0.129 mi.)***	***E26***	***96***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGES & TUNNEL	***BRONX-WHITESTONE BRI***	***0 - 1/8 (0.000 mi.)***	***A5***	***13***
UNITED PARCEL SERVIC	***BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F29***	***127***

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, and dated 12/31/2019 has revealed that there are 3 NY MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGES & TUNNEL EPA ID: NYR000154260	***1 HUTCHINSON RIVER P***	***ESE 0 - 1/8 (0.113 mi.)***	***E22***	***56***

Lower Elevation	Address	Direction / Distance	Map ID	Page
UNITED PARCEL SERVIC	***BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F29***	***127***

EPA ID: NYD986900728				
N Y BRUSH LLC	***650 BRUSH AVE***	***NNW 1/8 - 1/4 (0.205 mi.)***	***36***	***191***
EPA ID: NYR000140368				

PA MANIFEST: Hazardous waste manifest information.

A review of the PA MANIFEST list, as provided by EDR, and dated 06/30/2018 has revealed that there is 1 PA MANIFEST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGE BIN 55211	***1 HUTCHINSON RIVER P***	***E 1/8 - 1/4 (0.129 mi.)***	***E26***	***96***
Generator EPA Id: NYD982796377				

NJ MANIFEST: Hazardous waste manifest information.

A review of the NJ MANIFEST list, as provided by EDR, and dated 12/31/2018 has revealed that there are 3 NJ MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGE BIN 55211	***1 HUTCHINSON RIVER P***	***E 1/8 - 1/4 (0.129 mi.)***	***E26***	***96***
EPA Id: NYD982796377				

Lower Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGES & TUNNEL	***BRONX-WHITESTONE BRI***	***0 - 1/8 (0.000 mi.)***	***A5***	***13***
EPA Id: NYR000154260				
UNITED PARCEL SERVIC	***BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F29***	***127***
EPA Id: NYD986900728				

NY SPDES: New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

A review of the NY SPDES list, as provided by EDR, and dated 01/12/2024 has revealed that there is 1 NY SPDES site within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FERRY POINT PARK REC	500 HUTCHINSON RIVER	0 - 1/8 (0.000 mi.)	A2	10
Permit Number: NYR10D547				

EXECUTIVE SUMMARY

NY ILI: A solid waste site priority list of mitigation and remedial activities to address sites causing, or substantially contributing to, impairments of drinking water quality. Inactive solid waste disposal sites, primarily landfills, and their potential impact on New York?s drinking water resources from site-related contaminants, with a focus on emerging contaminants.

A review of the NY ILI list, as provided by EDR, and dated 01/30/2024 has revealed that there are 3 NY ILI sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RANDALL AVE AND ZERE	*HAVMEYER AVE, RANDEL*	*NW 1/4 - 1/2 (0.375 mi.)*	*43*	*215*

Lower Elevation	Address	Direction / Distance	Map ID	Page
FERRY POINT PARK	*10 HUTCHINSON ROVER*	*SSW 1/8 - 1/4 (0.138 mi.)*	*28*	*125*
EASTERN ECOLOGY COMP	*665-637 ZEREGA AVE*	*NNW 1/4 - 1/2 (0.391 mi.)*	*44*	*216*

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 5 records.

Site Name	Database(s)
CE - ZEREGA AVE. STATION	NY SHWS
FORT SCHUYLER PARK AREA	NY SWF/LF, NY ILI
LB NORTHEAST	NY SWF/LF, NY ILI
BLOCK 5541, LOT 225 (BRUSH AVENUE	NY VCP
CE - ZEREGA AVE. STATION	NY VCP, NY MGP

OVERVIEW MAP - 7720624.2S

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

County Boundary

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Proposed Ballys Casino - Ring Road	CLIENT:	Langan Engineering, Inc.
ADDRESS:	450 Hutchinson River Parkway Bronx NY 10465	CONTACT:	Kaitlyn Gioia
		INQUIRY #:	7720624.2s
LAT/LONG:	40.813693 / 73.835803	DATE:	July 29, 2024 4:56 pm

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DETAIL MAP - 7720624.2S

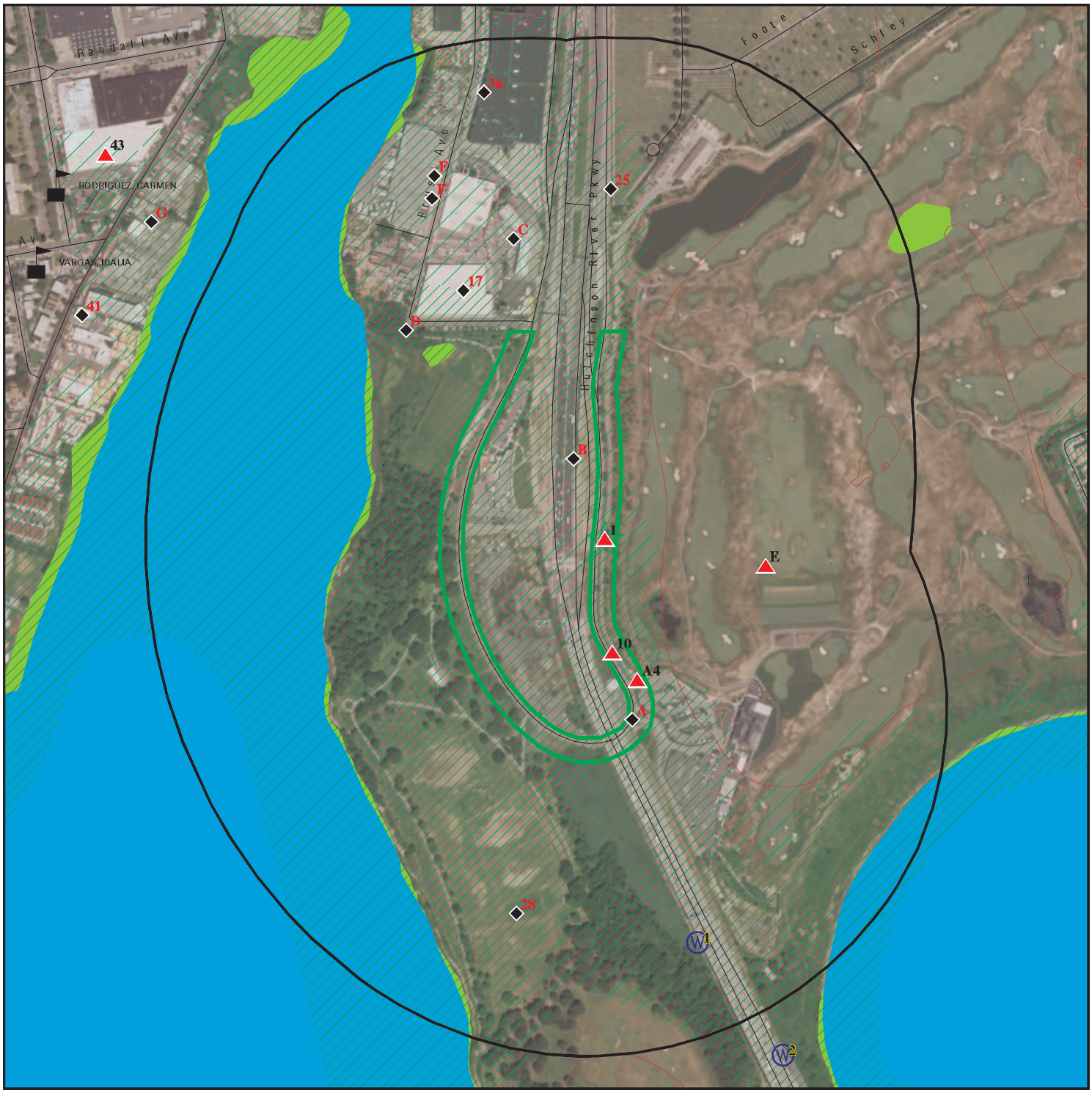

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Proposed Ballys Casino - Ring Road	CLIENT:	Langan Engineering, Inc.
ADDRESS:	450 Hutchinson River Parkway Bronx NY 10465	CONTACT:	Kaitlyn Gioia
		INQUIRY #:	7720624.2s
LAT/LONG:	40.813693 / 73.835803	DATE:	July 29, 2024 4:59 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	2	NR	NR	NR	2
RCRA-SQG	0.250		1	1	NR	NR	NR	2
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal hazardous waste facilities								
NY SHWS	1.000		0	0	0	0	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
NY SWF/LF	0.500		0	1	5	NR	NR	6
Lists of state and tribal leaking storage tanks								
INDIAN LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY LTANKS	0.500		2	2	2	NR	NR	6
NY HIST LTANKS	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
NY UST	0.250		1	1	NR	NR	NR	2
NY CBS UST	0.250		0	0	NR	NR	NR	0
NY MOSF UST	0.500		0	0	0	NR	NR	0
NY MOSF	0.500		0	0	0	NR	NR	0
NY CBS	0.250		0	1	NR	NR	NR	1
NY AST	0.250		4	2	NR	NR	NR	6
NY CBS AST	0.250		0	1	NR	NR	NR	1
NY MOSF AST	0.500		0	0	0	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
NY TANKS	0.250		1	1	NR	NR	NR	2
State and tribal institutional control / engineering control registries								
NY RES DECL	0.125		0	NR	NR	NR	NR	0
NY ENG CONTROLS	0.500		0	0	0	NR	NR	0
NY INST CONTROL	0.500		0	0	0	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
NY VCP	0.500		0	0	1	NR	NR	1
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
NY BROWNFIELDS	0.500		0	0	0	NR	NR	0
NY ERP	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
NY SWRCY	0.500		0	0	0	NR	NR	0
NY SWTIRE	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
NY DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
NY HIST UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY HIST AST	0.001		0	NR	NR	NR	NR	0
Local Land Records								
NY LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
NY Spills	0.125		8	NR	NR	NR	NR	8
NY Hist Spills	0.125		0	NR	NR	NR	NR	0
NY SPILLS 90	0.125		0	NR	NR	NR	NR	0
NY SPILLS 80	0.125		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	0	NR	NR	NR	1
FUDS	1.000		0	0	0	1	NR	1
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
FINDS	0.001		4	NR	NR	NR	NR	4
ECHO	0.001		3	NR	NR	NR	NR	3
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS PROJECT	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		2	0	NR	NR	NR	2
PFAS ECHO FIRE TRAIN	0.250		0	0	NR	NR	NR	0
PFAS PT 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	0.001		0	NR	NR	NR	NR	0
UST FINDER	0.250		0	1	NR	NR	NR	1
UST FINDER RELEASE	0.500		1	0	1	NR	NR	2
E MANIFEST	0.250		1	2	NR	NR	NR	3
NY PFAS	0.250		0	0	NR	NR	NR	0
NY AIRS	0.001		0	NR	NR	NR	NR	0
NY COAL ASH	0.500		0	0	0	NR	NR	0
NY DRYCLEANERS	0.250		0	0	NR	NR	NR	0
NY E DESIGNATION	0.125		0	NR	NR	NR	NR	0
NY Financial Assurance	0.001		0	NR	NR	NR	NR	0
NY HSWDS	0.500		0	0	0	NR	NR	0
NY LEAD	0.001		0	NR	NR	NR	NR	0
NY MANIFEST	0.250		1	2	NR	NR	NR	3
PA MANIFEST	0.250		0	1	NR	NR	NR	1
NJ MANIFEST	0.250		1	2	NR	NR	NR	3
NY SPDES	0.001		1	NR	NR	NR	NR	1
NY VAPOR REOPENED	0.500		0	0	0	NR	NR	0
NY UIC	0.001		0	NR	NR	NR	NR	0
NY COOLING TOWERS	0.001		0	NR	NR	NR	NR	0
NY MGP	1.000		0	0	0	0	NR	0
NY NYC LAND USE	TP	1	NR	NR	NR	NR	NR	1
NY ILI	0.500		0	1	2	NR	NR	3
NY NYC OER	1.000		0	0	0	0	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
NY RGA HWS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY RGA LF	0.001		0	NR	NR	NR	NR	0
- Totals --		1	32	21	11	1	0	66

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1 **NY NYC LAND USE** **S131152834**
Target Property **450 HUTCHINSON RVR PKWY** **N/A**
BRONX, NY 10465

Actual: 16 ft.

NYC LAND USE:

Name:	Not reported
Address:	450 HUTCHINSON RVR PKWY
City,State,Zip:	BRONX, NY 10465
Latitude:	40.8112977
Longitude:	-73.8344543
Type Of Ownership Code:	C
Owner Name:	NYC DEPARTMENT OF PARKS AND RECREATION
Borough:	BX
Tax Block:	5622
Tax Lot:	1
Community District:	210
Census Tract 2020:	2011000
Census Block 2020:	20110001004
Census Tract 2010:	110
Census Block 2010:	1012
School District:	08
City Council District:	13
Fire Company:	E072
Police Precinct:	45
Health Center District:	26
Health Area:	3220
Sanitation District Boro:	2
Sanitation District Number:	10
Sanitation Subsection:	3C
Zoning District 1:	PARK: Areas designated as PARK, BALL FIELD, PLAYGROUND and PUBLIC SPACE in NYC Zoning Districts
Zoning District 2:	Not reported
Zoning District 3:	Not reported
Zoning District 4:	Not reported
Commercial Overlay 1:	Not reported
Commercial Overlay 2:	Not reported
Special Purpose District 1:	Not reported
Special Purpose District 2:	Not reported
Special Purpose District 3:	Not reported
Limited Height District:	Not reported
Spill Boundary Indicator:	N
Building Class:	Q5: OUTDOOR RECREATION FACILITIES - Golf Course
Land Use Category:	Open Space & Outdoor Recreation
Number Of Easements:	0
Lot Area:	4225328
Total Building Floor Area:	14681
Commercial Floor Area:	14681
Residential Floor Area:	0
Office Floor Area:	2150
Retail Floor Area:	0
Garage Floor Area:	0
Storage Floor Area:	0
Factory Floor Area:	0
Other Floor Area:	0
Total Building Floor Area Source Code:	2
Number Of Buildings:	11
Number Of Floors:	1.0000000
Residential Units:	0
Total Units:	2

(Continued) **S131152834**

Lot Frontage:	97.0000000
Lot Depth:	3400.0000000
Building Frontage:	65.5000000
Building Depth:	35.5000000
Extension Code:	N
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	5
Basement Type/Grade:	0
Assessed Land Value:	40660411.00000
Assessed Total Value:	49656361.00000
Exempt Total Value:	49656361.00000
Year Built:	2014
Year Altered 1:	2010
Year Altered 2:	2017
Historic District Name:	Not reported
Landmark Status:	Not reported
Built Floor Area Ratio:	0.00000000000
Maximum Allowable Residential Far:	0.00000000000
Maximum Allowable Commercial Far:	0.00000000000
Maximum Allowable Community Facility Far:	0.00000000000
Boro Code:	2
Borough, Tax Block and Lot:	2056220001.00000000
Condominium Number:	Not reported
Census Tract 2:	0110
X Coordinate:	1030076
Y Coordinate:	234898
Zoning Map #:	7a
Zoning Map Code:	Y
Sanborn Map #:	221 081
Tax Map #:	21809
E-designation Number:	Not reported
Apportionment BBL:	Not reported
Apportionment Date:	Not reported
Pluto ??? Dtm Base Map Indicator:	1
2007 Flood Insurance Rate Map Indicator:	1
2015 Preliminary Flood Insurance Rate Map Indicator:	1
Version Number:	24v1.1
Changed By DCP:	t

A2 **FERRY POINT PARK RECREATIONAL FAC** **NY SPDES** **S123252664**
500 HUTCHINSON RIVER PKWY **N/A**
< 1/8 **BRONX, NY 10465**
1 ft.

Site 1 of 12 in cluster A

Relative: **Lower**
Actual: **13 ft.**

SPDES:

Name:	Ferry Point Park Recreational Fac
Address:	500 HUTCHINSON RIVER PKWY
City,State,Zip:	BRONX, NY 10465
Permit Number:	NYR10D547
State-Region:	Not reported
Expiration Date:	Not reported
Current Major Minor Status:	Not reported
Primary Facility SIC Code:	Not reported
State Water Body Name:	Not reported
Limit Set Status Flag:	Not reported

FERRY POINT PARK RECREATIONAL FAC (Continued) **S123252664**

Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	598455 / 4518240
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	Not reported
Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Not reported
Non-Gov Facility Org Formal Name:	Not reported
Non-Gov Facility Street Address:	Not reported
Non-Gov Facility Supplemental Location:	Not reported
Non-Gov Facility City:	Not reported
Non-Gov Facility State Code:	Not reported
Non-Gov Facility Zip Code:	Not reported
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Facility Type:	Not reported

A3 **NYSDOT BIN 55211229 - BRONX WHITESTONE BRIDGE** **FINDS** **1026425532**
1 HUTCHINSON RIVER PKWY **N/A**
< 1/8 **BRONX, NY 10465**
1 ft.

Site 2 of 12 in cluster A

Relative: FINDS:
Lower Registry ID: 110070754377

Actual:
12 ft. Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
All generators and treatment, storage, and disposal (TSD) facilities who handle hazardous waste are required to report to the EPA Administrator at least once every two years. The data collected is used to create the National Biennial Resource Conservation and Recovery Act (RCRA) Hazardous Waste Report. This data is processed within the RCRA Information (RCRAInfo) database

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A4 **MANHOLE 15002** **NY Spills** **S109206979**
80 N HUTCHINSON RIVER PKW **N/A**
< 1/8 **BRONX, NY**
1 ft.

Site 3 of 12 in cluster A

Relative:
Higher

Actual:
17 ft.

SPILLS:

Name:	MANHOLE 15002
Address:	80 N HUTCHINSON RIVER PKW
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0805329 / 2008-09-16
Facility ID:	0805329
Facility Type:	ER
DER Facility ID:	351615
Site ID:	402409
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	0301
Spill Date:	2008-08-07
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	2008-08-08
CID:	404
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-08-08
Spill Record Last Update:	2008-09-16
Spiller Name:	ERTSDESK
Spiller Company:	MANHOLE 15002
Spiller Address:	80 N HUTCHINSON RIVER PKW
Spiller Company:	001
Contact Name:	ERTSDESK
DEC Memo:	09/19/08 - See eDocs for Con Ed report detailing cleanup and closure. 9/16/08 - Austin - oil cleaned up - closed
Remarks:	unknown oil on 4000g of water; contained to a manhole; con ed 213035

All Materials:

Site ID:	402409
Operable Unit ID:	1159168
Operable Unit:	01
Material ID:	2150279
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	25.00
Units:	G
Recovered:	.00
Resource Affected:	Surface Water
Oxygenate:	Not reported

A5 **MTA BRIDGES & TUNNELS (BWB)** **RCRA-SQG** **1010566779**
BRONX-WHITESTONE BRIDGE **E MANIFEST** **NYR000154260**
< 1/8 **BRONX, NY 10465** **NJ MANIFEST**
1 ft.

Site 4 of 12 in cluster A

Relative:
Lower

Actual:
11 ft.

RCRA Listings:

Date Form Received by Agency:	20071210
Handler Name:	Whitestone Bridge Facility
Handler Address:	Hutchinson River Pkwy
Handler City,State,Zip:	BRONX, NY 10465-1857
EPA ID:	NYR000154260
Contact Name:	GEORGE BASSIL
Contact Address:	MTA BRGS & TUNLS R MOSES BLDG
Contact City,State,Zip:	NEW YORK, NY 10035-5199
Contact Telephone:	212-360-4165
Contact Fax:	Not reported
Contact Email:	GBASSIL@MTABT.ORG
Contact Title:	Not reported
EPA Region:	02
Land Type:	State
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ny
State District:	NYSDEC R2
Mailing Address:	MTA BRGS & TUNLS R MOSES BLDG
Mailing City,State,Zip:	NEW YORK, NY 10035-5199
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste
Waste Code:	D008
Waste Description:	Lead
Waste Code:	D018
Waste Description:	Benzene

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	TRIBOROUGH BRIDGE & TUNNEL AUTH (TBTA)
Legal Status:	State
Date Became Current:	19500525
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	MTA BRIDGES AND TUNNELS (TBTA)
Legal Status:	State
Date Became Current:	19500525
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20071210
Handler Name:	WHITESTONE BRIDGE FACILITY
Federal Waste Generator Description:	Small Quantity Generator

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20071211
Handler Name:	WHITESTONE BRIDGE FACILITY
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	48849
NAICS Description:	OTHER SUPPORT ACTIVITIES FOR ROAD TRANSPORTATION

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

E MANIFEST:

Manifest Tracking Number:	022176541JJK
Last Updated Date:	20210519
Shipped Date:	20210427
Received Date:	20210427
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYR000154260
Generator Name:	Mta Bridges & Tunnels (Bwb)
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRONX-WHITESTONE BRIDGE
Generator Mail Street 2:	Not reported
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRONX-WHITESTONE BRIDGE
Generator Location Street 2:	Not reported
Generator Location City:	BRONX
Generator Location Zip:	10465

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD002200046
Designated Facility Name:	Cycle Chem, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	217 SOUTH FIRST STREET
Designated Facility Mail City:	ELIZABETH
Designated Facility Mail Zip:	07206
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	217 SOUTH FIRST STREET
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	ELIZABETH
Designated Facility Location Zip:	07206
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Federal Waste:

Manifest Tracking Number:	022176541JJK
Waste Line Number:	1
Federal Waste Code:	D001
Federal Waste:	IGNITABLE WASTE

Manifest Tracking Number:	022176541JJK
Waste Line Number:	1
Federal Waste Code:	D018
Federal Waste:	BENZENE

State Waste:

Manifest Tracking Number:	022176541JJK
Waste Line Number:	1
State Waste Code Owner:	NY
State Waste Code:	B
State Waste:	Incineration, heat recovery, burning. Waste management method code to be used on e-Manifest only

Transporter:

Manifest Tracking Number:	022176541JJK
Transporter Line Number:	1
Transporter EPA ID:	NJD003812047
Transporter Name:	Acv Environmental Services, Inc

Waste Line:

Manifest Tracking Number:	022176541JJK
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	UN2583
U.S. DOT Description:	Rq, Un1993, Waste Flammable Liquids, N.O.S. (Gasoline, Diesel Fuel), 3 , Ii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	1
Container Type Code:	DF

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Container Type Description:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	417
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.2085
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.2085
Waste Quantity, in Kilograms:	189.11575
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	189.11575
Management Method Code:	H061
Management Method Description:	FUEL BLENDING
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

NJ MANIFEST:

EPA ID:	NYR000154260
Name:	WHITESTONE BRIDGE FACILITY
Address:	1 HUTCHINSON RIVER PKWY
City,State,Zip:	BRONX, NY 10465-1857
County:	Not reported
Mailing Address:	MTA BRGS & TUNLS R MOSES BLDG
Mailing City,State,Zip:	NEW YORK, NY 10035-5199
Telephone:	Not reported
Emergency Telephone:	Not reported
Contact:	GEORGE BASSIL
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPAID:	Not reported
Generator Flag:	Not reported
Transporter Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest Data:

EPA ID:	NYR000154260
Manifest Number:	003534721JJK
Date Shipped:	5/4/2011
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H141
Quantity:	55.00
Unit:	Pounds

EPA ID:	NYR000154260
Manifest Number:	010913928JJK
Date Shipped:	11/4/2013
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	600.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	300.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
EPA ID:	NYR000154260
Manifest Number:	010913928JJK
Date Shipped:	11/4/2013
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	600.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	300.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
EPA ID:	NYR000154260
Manifest Number:	010913928JJK
Date Shipped:	11/4/2013
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	600.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	300.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
EPA ID:	NYR000154260
Manifest Number:	015626081JJK
Date Shipped:	3/30/2016
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

EPA ID:	NYR000154260
Manifest Number:	015626081JJK
Date Shipped:	3/30/2016
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

A6 **NYCP&R - FERRY POINT WATERFRONT PARK** **FINDS** **1012241816**
500 HUTCHINSON PARKWAY **ECHO** **N/A**
< 1/8 **BRONX, NY 10465**
1 ft.

Site 5 of 12 in cluster A

Relative:
Lower

Actual:
14 ft.

FINDS:
Registry ID: 110039573832

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
All generators and treatment, storage, and disposal (TSD) facilities who handle hazardous waste are required to report to the EPA Administrator at least once every two years. The data collected is used to create the National Biennial Resource Conservation and Recovery Act (RCRA) Hazardous Waste Report. This data is processed within the RCRA Information (RCRAInfo) database
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1012241816
Registry ID:	110039573832
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110039573832
Name:	NYCP&R - FERRY POINT WATERFRONT PARK
Address:	500 HUTCHINSON PARKWAY
City,State,Zip:	BRONX, NY 10465

A7 **FERRY POINT PARK GOLF COURSE** **FINDS** **1007808831**
500 HUTCHINSON RIVER PKWY **ECHO** **N/A**
< 1/8 **BRONX, NY 10465**
1 ft.

Site 6 of 12 in cluster A

Relative: **Lower**
Actual: **13 ft.**

FINDS:
Registry ID: 110019713684

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The New York Department of Environmental Conservation Facility Information System (FIS) database houses all information about facilities that are regulated or of environmental interest to the state of New York.
The National Pollutant Discharge Elimination System (NPDES) module of the Integrated Compliance Information System (ICIS). Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1007808831
Registry ID:	110019713684
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110019713684
Name:	FERRY POINT PARK GOLF COURSE
Address:	500 HUTCHINSON RIVER PKWY
City,State,Zip:	BRONX, NY 10465

A8 **NYCP&R - FERRY POINT WATERFRONT PARK** **PFAS ECHO** **1027398622**
N/A
< 1/8 **BRONX, NY**
1 ft.

Site 7 of 12 in cluster A

Relative: **Lower**
Actual: **14 ft.**

PFAS ECHO:

Name:	NYCP&R - FERRY POINT WATERFRONT PARK
Address:	Not reported
City,State,Zip:	BRONX, NY
Latitude:	40.81146
Longitude:	-73.83536
Count:	1
County:	BRONX
Status:	Active
Region:	02
Industry:	Waste Management
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110039573832
Facility Percent Minority:	77.092
Facility Derived Tribes:	-
Facility Population:	21838.56
EPA Programs:	RCRA
Federal Facility:	No
Federal Agency:	-
Facility FIPS Code:	36005
Facility Indian Country Flag:	N

NYCP&R - FERRY POINT WATERFRONT PARK (Continued) **1027398622**

Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	02030102
Facility Derived WBD:	020301020105
Facility Derived CD113:	14
Facility Derived CB2010:	360050110001012
Facility Major Flag:	-
Facility Active Flag:	Y
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AIR IDS:	-
CAA Permit Types:	-
CAA NAICS:	-
CAA SICS:	-
NPDES IDS:	-
CWA Permit Types:	-
CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	NYR000168286
RCRA Permit Types:	LQG
RCRA NAICS:	562212
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-
TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	-
EJSCREEN Flag US:	N

EJSCREEN Report:

A9 **BRONX WHITESTONE BRIDGE FACILITY** **NY Spills** **S111158225**
1 HUTCHINSON RIVER PKWY **N/A**
< 1/8 **BRONX, NY**
1 ft.

Site 8 of 12 in cluster A

Relative:
Lower

Actual:
11 ft.

SPILLS:

Name:	BRONX WHITESTONE BRIDGE FACILITY
Address:	1 HUTCHINSON RIVER PKWY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	1109651 / 2012-01-18
Facility ID:	1109651
Facility Type:	ER
DER Facility ID:	411910
Site ID:	457431
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	2011-11-02
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2011-11-02
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2011-11-02
Spill Record Last Update:	2012-01-18
Spiller Name:	PASHKO CAMAJ
Spiller Company:	MTA BRIDGES AND TUNNELS
Spiller Address:	1 HUTCHINSON RIVER PKWY
Spiller Company:	999
Contact Name:	PASHKO CAMAJ
DEC Memo:	Sangesland spoke to Pashko from MTA. He said the site has a 1000 gal buried gasoline tank. Vapor recovery line was pitched the wrong way and gasoline condensed and eventually leaked out of the line into the pea gravel. Franklin Company has been hired to deal with the cleanup and repairs. 12/28/2011 Sangesland spoke to Martin Wozolowski at Liro Engineering. He said F & N did the work supervised by Liro Engineer. Vacuumed out the water from the tank/lines. Found staining in the pea gravel. Vac truck pulled out groundwater from the area around the tank. Removed 3 yards of contaminated pea gravel/stone. Then took 2 ground water samples. One sample was totally clean, the other had a single hit for Benzene. They will submit this report within the next couple of days and request closure. Report dated Jan 3, 2012 submitted by LiRo Engineers Inc. summarized all of this work. Minor Hit for Benzene. OK to close out.

BRONX WHITESTONE BRIDGE FACILITY (Continued) **S111158225**

Remarks: from vapor recovery line from fill station - repairs and cleanup in progress

All Materials:

Site ID:	457431
Operable Unit ID:	1207557
Operable Unit:	01
Material ID:	2204834
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Soil
Oxygenate:	Not reported

---

10 **CON EDISON TRANSFORMER POLE 9572** **NY Spills** **S110307850**
530 HUTCHINSON RIVER PARKWAY **N/A**
< 1/8 **BRONX, NY**
1 ft.

Relative:
Higher

Actual:
16 ft.

SPILLS:

Name:	CON EDISON TRANSFORMER POLE 9572
Address:	530 HUTCHINSON RIVER PARKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	1000322 / 2010-04-22
Facility ID:	1000322
Facility Type:	ER
DER Facility ID:	380458
Site ID:	431484
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	2010-04-08
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	2010-04-08
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2010-04-08
Spill Record Last Update:	2010-04-22
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller Company:	Not reported
Contact Name:	ERT

CON EDISON TRANSFORMER POLE 9572 (Continued) **S110307850**

DEC Memo: 4/8/10-Vought-Duty desk officer. Called Con Ed ERT (212-580-8383) and spoke to Tony Delgado, 21
gallons on asphalt and 4 gallons on soil. No PCB concentrations on file and will be treated as
50-499. Transformer on public property. Endpoint samples will be collected upon determination of
PCB concentrations or EPA Method 8100. Spill assigned to DEC Feroze as part of routine Con Ed
portfolio review and possible closure. Vought received second call from and spoke to Con Ed
Delagado and transformer installed in 1992 and had non-PCB dielectric fluid. Initial EMIS #220992
deleted from proxy and put into e-docs. 4/22/10 - Austin - Pole Transformer leak on soil and
sidewalk, no other impacts- spill contained and cleaned up by Con Ed - see eDocs for more details -
Spill closed - end

Remarks: unknown pcb's onto ashalt. Contained and clean up pending

All Materials:

Site ID:	431484
Operable Unit ID:	1182953
Operable Unit:	01
Material ID:	2177145
Material Code:	0541A
Material Name:	dielectric fluid
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	25.00
Units:	G
Recovered:	Not reported
Resource Affected:	Soil, Impervious Surface
Oxygenate:	Not reported

A11 **NYC PARKS-FERRY POINT PARK** **FINDS** **1016137063**
500 HUTCHINSON RIVER PKWY **ECHO** **N/A**
< 1/8 **BRONX, NY 10465**
1 ft.

Site 9 of 12 in cluster A

Relative: **Lower**
Actual: **13 ft.**

FINDS:
Registry ID: 110019835188

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
ICIS-Air (AIR) AIR is the modernization of the Air Facility System (AFS) into the Integrated Compliance Information System (ICIS). AIR contains enforcement, compliance, and permit data for stationary sources of air pollution regulated by the EPA, State, and Local air pollution agencies.
The New York Department of Environmental Conservation Facility Information System (FIS) database houses all information about facilities that are regulated or of environmental interest to the state of New York.
The Air Facility System (AFS) contains compliance and permit data for stationary sources of air pollution regulated by the EPA, state, and local air pollution agencies.

NYC PARKS-FERRY POINT PARK (Continued) **1016137063**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1016137063
Registry ID:	110019835188
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110019835188
Name:	NYC PARKS-FERRY POINT PARK
Address:	500 HUTCHINSON RIVER PKWY
City,State,Zip:	BRONX, NY 10465

A12 **BRONX WHITESTONE BRIDGE** **UST FINDER RELEASE** **1029062796**
1 HUTCHINSON RIVER PKWAY **N/A**
< 1/8 **BRONX, NY 0**
1 ft.

Site 10 of 12 in cluster A

Relative:
Lower

Actual:
11 ft.

UST FINDER RELEASE:

Object ID:	260443
Facility ID:	NY177640
Lust ID:	NY9408139
Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY 0
Address Match Type:	StreetAddress
Reported Date:	1994/09/19 15:59:59+00
Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	0
Domestic Wells within 1500ft:	0
Land Use:	Developed, Medium Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	2
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	Geocode
X Coord:	-73.8356199999999
Y Coord:	40.8111200000001
Latitude:	40.81112
Longitude:	-73.83562

Object ID:	260444
Facility ID:	NY177640

BRONX WHITESTONE BRIDGE (Continued) **1029062796**

Lust ID:	NY9607895
Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY 0
Address Match Type:	StreetAddress
Reported Date:	1996/09/24 15:59:59+00
Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	0
Domestic Wells within 1500ft:	0
Land Use:	Developed, Medium Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	2
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	Geocode
X Coord:	-73.8356199999999
Y Coord:	40.8111200000001
Latitude:	40.81112
Longitude:	-73.83562

Object ID:	260529
Facility ID:	NY177640
Lust ID:	NY100477
Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY 0
Address Match Type:	Not reported
Reported Date:	2001/04/12 15:59:59+00
Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	0
Domestic Wells within 1500ft:	0
Land Use:	Non-Developed
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported

BRONX WHITESTONE BRIDGE (Continued) **1029062796**

WHPA HUC12:	Not reported
Within 100yr Floodplain:	Yes
Tribe:	Not reported
EPA Region:	2
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	State
X Coord:	-73.8318
Y Coord:	40.8050000000001
Latitude:	40.805
Longitude:	-73.8318

A13 **FERRY POINT PARK GOLF COURSE** **NY Spills** **S110243664**
500 HUTCHINSON RIVER PARKWAY **N/A**
< 1/8 **BRONX, NY**
1 ft.

Site 11 of 12 in cluster A

Relative: **Lower**
Actual: **13 ft.**

SPILLS:

Name:	FERRY POINT PARK GOLF COURSE
Address:	500 HUTCHINSON RIVER PARKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0913675 / 2010-03-25
Facility ID:	0913675
Facility Type:	ER
DER Facility ID:	375501
Site ID:	426631
DEC Region:	2
Spill Cause:	Other
Spill Class:	Not reported
SWIS:	0301
Spill Date:	2010-01-10
Investigator:	RVKETANI
Referred To:	Not reported
Reported to Dept:	2010-03-25
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2010-03-25
Spill Record Last Update:	2010-03-25
Spiller Name:	Not reported
Spiller Company:	FUEL OIL COMPANY
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	ROBERT GANTZER
DEC Memo:	3/25/10 - Raphael Ketani. The spill happened on 1/10/10, but wasn't called in until today. According to Robert Gantzer (347) 386-5695 of the NYC Parks

FERRY POINT PARK GOLF COURSE (Continued) **S110243664**

Department, a generator was being filled with diesel and it overflowed onto the bare ground (see pictures in E-docs and report). The affected area was 10' by 20'. He said that Marc Redis of the DEC Div. of Solid Waste told him to clean it up. Mr. Redis was at the site because it's a Part 360 site. The cleanup was undertaken during January, but it wasn't discovered until sometime later (Mr. Gantzer didn't specify how much later) that there was more contamination below ground. So more digging took place. He said that they dug down one and a half feet to remove all of the contamination, and all of the contaminated soil was put into drums. I told Mr. Gantzer that, in the future, a spill has to be reported to the Spills Hotline within 2 hours of the occurrence. He said that he will report quickly next time. I spoke to Mr. Redis. He said that the Parks Department did dig out the area. As the contaminated soil has been remediated, I am closing the case. 3/25/10-Vought-Matter referred to Solid Waste who will supervise cleanup as per DEC Austin.

Remarks: CLEANUP DONE - MATERIAL IN DRUMS

All Materials:

Site ID:	426631
Operable Unit ID:	1182307
Operable Unit:	01
Material ID:	2176470
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5.00
Units:	G
Recovered:	Not reported
Resource Affected:	Soil
Oxygenate:	Not reported

A14 **NYC PARKS-FERRY POINT PARK** **PFAS ECHO** **1027398613**
N/A

< 1/8
1 ft.

BRONX, NY

Site 12 of 12 in cluster A

Relative:
Lower

Actual:
14 ft.

PFAS ECHO:

Name:	NYC PARKS-FERRY POINT PARK
Address:	Not reported
City,State,Zip:	BRONX, NY
Latitude:	40.81146
Longitude:	-73.83536
Count:	1
County:	BRONX
Status:	Inactive
Region:	02
Industry:	Waste Management
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110019835188

NYC PARKS-FERRY POINT PARK (Continued) **1027398613**

Facility Percent Minority:	77.092
Facility Derived Tribes:	-
Facility Population:	21838.56
EPA Programs:	CAA
Federal Facility:	No
Federal Agency:	-
Facility FIPS Code:	36005
Facility Indian Country Flag:	N
Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	02030102
Facility Derived WBD:	020301020105
Facility Derived CD113:	14
Facility Derived CB2010:	360050110001012
Facility Major Flag:	-
Facility Active Flag:	-
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	Y
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AIR IDS:	NY0000002600600014
CAA Permit Types:	Minor Emissions
CAA NAICS:	999999
CAA SICS:	4953
NPDES IDS:	-
CWA Permit Types:	-
CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	-
RCRA Permit Types:	-
RCRA NAICS:	-
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-
TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	-

NYC PARKS-FERRY POINT PARK (Continued) **1027398613**

EJSCREEN Flag US: N

EJSCREEN Report:

B15 **WHITESTONE BRIDGE - BX** **NY LTANKS** **S102671512**
NNW **WHITESTONE BR** **N/A**
< 1/8 **BRONX (County), NY**
0.021 mi.
109 ft. **Site 1 of 2 in cluster B**

Relative:
Lower

Actual:
15 ft.

LTANKS:

Name:	WHITESTONE BRIDGE - BX
Address:	WHITESTONE BR
City,State,Zip:	NY
Spill Number/Closed Date:	8912020 / 1990-03-19
Facility ID:	8912020
Site ID:	295754
Spill Date:	1990-03-19
Spill Cause:	Tank Overfill
Spill Source:	Commercial Vehicle
Spill Class:	Not reported
Cleanup Ceased:	1990-03-19
SWIS:	0301
Investigator:	TAYLOR
Referred To:	Not reported
Reported to Dept:	1990-03-19
CID:	Not reported
Water Affected:	EAST RIVER
Spill Notifier:	Federal Government
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	True
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1990-03-19
Spill Record Last Update:	1990-05-09
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	239341
DEC Memo:	Not reported
Remarks:	COMMERCIAL VEHICLE PULLED OFF ROAD SPILLING OIL FROM SADDLE TK INTO DRAIN - NYFD HOSED SPILLAGE INTO ROADWAY DRAIN - NO RESPONSE FROM DEC NECESSARY.

All Materials:

Site ID:	295754
Operable Unit ID:	937785
Operable Unit:	01
Material ID:	441502
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported

WHITESTONE BRIDGE - BX (Continued) **S102671512**

Material FA:	Petroleum
Quantity:	65.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

B16
NNW
< 1/8
0.021 mi.
109 ft.

WHITESTONE BRIDGE
TOLL PLAZA
BRONX, NY

Site 2 of 2 in cluster B

NY Spills **S104952344**
N/A

Relative:
Lower

Actual:
15 ft.

SPILLS:

Name:	WHITESTONE BRIDGE
Address:	TOLL PLAZA
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0011525 / 2001-06-01
Facility ID:	0011525
Facility Type:	ER
DER Facility ID:	89172
Site ID:	100434
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	2001-01-25
Investigator:	KMFOLEY
Referred To:	Not reported
Reported to Dept:	2001-01-25
CID:	205
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2001-01-25
Spill Record Last Update:	2001-08-13
Spiller Name:	SAME
Spiller Company:	CON ED
Spiller Address:	4 IRVING PLACE
Spiller Company:	001
Contact Name:	CALLER
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was FOLEY CON ED E2MIS REPORT 1-25-01 1pt. of dielectric fluid spilled from switch in customer owned vault #2635 onto floor of vault. No environmental impact. Samples will be taken and tag placed. 1-25-01 Job closed out because it was opened on the wrong site. It should have been opened on the BEDS. The new incident # is 135220 on BxEDS.
Remarks:	VAULT 2635, HAS LEAK ON SWITCH. CON ED # 135216.

WHITESTONE BRIDGE (Continued) **S104952344**

All Materials:

Site ID:	100434
Operable Unit ID:	833575
Operable Unit:	01
Material ID:	541834
Material Code:	0541A
Material Name:	dielectric fluid
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

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17 NNW < 1/8 0.053 mi. 279 ft. **CABLEVISION** **NY AST** **U003397186**
500-510 BRUSH AVENUE **N/A**
BRONX, NY 10465

Relative: Lower
Actual: 8 ft.

AST:

Name:	CABLEVISION
Address:	500-510 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-603460
Program Type:	PBS
UTM X:	597921.36616
UTM Y:	4519027.86794
Expiration Date:	05/05/2028
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	25376
Affiliation Type:	Mail Contact
Company Name:	DE-CON REALTY COMPANY
Contact Type:	Not reported
Contact Name:	MICHAEL P. CONTILLO
Address1:	550 BRUSH AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10465
Country Code:	001
Phone:	(718) 490-1444
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-03-07

Site Id:	25376
Affiliation Type:	Facility Operator
Company Name:	CABLEVISION
Contact Type:	Not reported

CABLEVISION (Continued) **U003397186**

Contact Name:	CABLEVISION
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 991-6000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-03-07

Site Id:	25376
Affiliation Type:	Emergency Contact
Company Name:	500 BRUSH LLC
Contact Type:	Not reported
Contact Name:	MICHAEL P. CONTILLO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(516) 626-2418
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-03-07

Site Id:	25376
Affiliation Type:	Facility Owner
Company Name:	500 BRUSH LLC
Contact Type:	OWNER
Contact Name:	MICHAEL P. CONTILLO
Address1:	550 BRUSH AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10465
Country Code:	001
Phone:	(718) 409-1444
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-03-07

Tank Info:

Tank Number:	001
Tank Id:	54442
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

E01 - Piping Secondary Containment - Diking (AG only)

CABLEVISION (Continued) **U003397186**

C01 - Pipe Location - Aboveground
I05 - Overfill - Vent Whistle
A01 - Tank Internal Protection - Epoxy Liner
G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None

Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	03/01/1989
Capacity Gallons:	3000
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	#2 fuel oil (on-site consumption)

Tank Number:	002
Tank Id:	54443
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

A01 - Tank Internal Protection - Epoxy Liner
G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
E01 - Piping Secondary Containment - Diking (AG only)
I05 - Overfill - Vent Whistle
C01 - Pipe Location - Aboveground
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None

Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	03/01/1989
Capacity Gallons:	3000
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported

CABLEVISION (Continued) **U003397186**

Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	#2 fuel oil (on-site consumption)

C18 NNW < 1/8 0.079 mi. 418 ft. **CON EDISON** **RCRA NonGen / NLR** **1012185619**
555 HUTCHINSON RIVER PKWY **NYP004164521**
BRONX, NY 10451

Site 1 of 2 in cluster C

Relative: Lower

Actual: 8 ft.

RCRA Listings:

Date Form Received by Agency:	20160601
Handler Name:	Con Edison
Handler Address:	Hutchinson River Pkwy
Handler City,State,Zip:	BRONX, NY 10451
EPA ID:	NYP004164521
Contact Name:	DAVID DUKE
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	917-559-8971
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Ny
State District:	NYSDEC R2
Mailing Address:	4 IRVING PL, RM 828
Mailing City,State,Zip:	NEW YORK, NY 10003
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline

CON EDISON (Continued) **1012185619**

202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20160602
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Historic Generators:

Receive Date:	20090324
Handler Name: CON EDISON	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20160601
Handler Name: CON EDISON	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations:	No Violations Found

CON EDISON (Continued) **1012185619**

Evaluation Action Summary:
Evaluations: No Evaluations Found

C19 NNW < 1/8 0.079 mi. 418 ft. **VAULT #2232** **NY AST** **U003383789**
555 HUTCHINSON RIVER PKWY **NY Spills** **N/A**
BRONX, NY

Site 2 of 2 in cluster C

Relative: Lower

Actual: 8 ft.

AST:

Name:	CAPRI WHITESTONE LLC
Address:	555 HUTCHINSON RIVER PARKWAY
City,State,Zip:	BRONX, NY 10465
Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-062987
Program Type:	PBS
UTM X:	598079.55693
UTM Y:	4519027.24774
Expiration Date:	11/13/2024
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	1219
Affiliation Type:	Mail Contact
Company Name:	CAPRI WHITESTONE LLC
Contact Type:	Not reported
Contact Name:	DAVID AZMAN
Address1:	325 EAST 104TH STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10029
Country Code:	001
Phone:	(212) 220-2569
EMail:	DAZMAN@LIBERTY1GROUP.COM
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2019-10-07

Site Id:	1219
Affiliation Type:	Facility Operator
Company Name:	555 HUTCHINSON RIVER PARKWAY
Contact Type:	Not reported
Contact Name:	CAPRI WHITESTONE LLC
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 597-0600
EMail:	Not reported
Fax Number:	Not reported
Modified By:	ACDANIEL
Date Last Modified:	2018-07-11

VAULT #2232 (Continued) **U003383789**

Site Id:	1219
Affiliation Type:	Emergency Contact
Company Name:	CAPRI WHITESTONE LLC
Contact Type:	Not reported
Contact Name:	DAVID AZMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(212) 220-2569
EMail:	Not reported
Fax Number:	Not reported
Modified By:	ACDANIEL
Date Last Modified:	2018-07-11

Site Id:	1219
Affiliation Type:	Facility Owner
Company Name:	CAPRI WHITESTONE LLC
Contact Type:	CAPRI WHITESTONE LLC MEMBER
Contact Name:	DAVID AZMAN
Address1:	325 EAST 104TH STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10029
Country Code:	001
Phone:	(212) 996-6456
EMail:	Not reported
Fax Number:	Not reported
Modified By:	ACDANIEL
Date Last Modified:	2018-07-11

Tank Info:

Tank Number:	001
Tank Id:	2261
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

H99 - Tank Leak Detection - Other
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
E00 - Piping Secondary Containment - None
G03 - Tank Secondary Containment - Vault (w/o access)
L09 - Piping Leak Detection - Exempt Suction Piping

Tank Location: Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.

VAULT #2232 (Continued) **U003383789**

Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	06/20/1975
Capacity Gallons:	6000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	#2 fuel oil (on-site consumption)

SPILLS:

Name:	VAULT #2232
Address:	555 HUTCHINSON RIVER PKWY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0813834 / 2009-06-08
Facility ID:	0813834
Facility Type:	ER
DER Facility ID:	360753
Site ID:	411543
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	2009-03-23
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	2009-03-23
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2009-03-23
Spill Record Last Update:	2009-06-08
Spiller Name:	ERT
Spiller Company:	CON ED
Spiller Address:	555 HUTCHINSON RIVER PKWY
Spiller Company:	999
Contact Name:	ERT
DEC Memo:	5/11/09 - Austin - EMIS reports that vault was cleaned and washed, with proper disposal for fluids - all within vault - close - end
Remarks:	CALLER STATES THAT DUE TO A BROKEN FEEDER ABOUT 5 GALLONS OF PRODUCT IS SPILLING TO THE VAULT. UNK IF IT CONTAINES PCBS CLEAN UP AND REPAIR PENDING.

All Materials:

Site ID:	411543

VAULT #2232 (Continued) **U003383789**

Operable Unit ID:	1168016
Operable Unit:	01
Material ID:	2159633
Material Code:	0020A
Material Name:	transformer oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5.00
Units:	G
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

D20 **BRONX WHITESTONE BRIDGE** **NY UST** **U004062136**
NW **ONE HUTCHINSON RIVER PARKWAY** **N/A**
< 1/8 **BRONX, NY 10465**
0.082 mi.
434 ft. **Site 1 of 2 in cluster D**

Relative:
Lower

Actual:
6 ft.

UST:

Name:	BRONX WHITESTONE BRIDGE
Address:	ONE HUTCHINSON RIVER PARKWAY
City,State,Zip:	BRONX, NY 10465
Id/Status:	2-481645 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	09/06/2025
UTM X:	597911.06250
UTM Y:	4519009.50000
Site Type:	Other

Affiliation Records:

Site Id:	21547
Affiliation Type:	Mail Contact
Company Name:	MTA BRIDGES & TUNNELS (TBTA)
Contact Type:	Not reported
Contact Name:	PASHKO R. CAMAJ MGR. S&H COMPLIANCE
Address1:	SAFETY & HEALTH DEPT.
Address2:	ROBERT MOSES BLDG, ROOM 115
City:	RANDALLS ISLAND
State:	NY
Zip Code:	10035
Country Code:	001
Phone:	(212) 360-3073
EMail:	PCAMAJ@MTABT.ORG
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2020-09-03

Site Id:	21547
Affiliation Type:	Facility Owner
Company Name:	MTA BRIDGES AND TUNNELS (TBTA)
Contact Type:	MANAGER
Contact Name:	GEORGE BASSIL
Address1:	2 BROADWAY
Address2:	Not reported

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

City:	NEW YORK
State:	NY
Zip Code:	10004
Country Code:	001
Phone:	(212) 360-3073
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2020-09-03

Site Id:	21547
Affiliation Type:	Emergency Contact
Company Name:	MTA BRIDGES AND TUNNELS (TBTA)
Contact Type:	Not reported
Contact Name:	PASHKO R. CAMAJ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(212) 360-3073
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2015-09-01

Site Id:	21547
Affiliation Type:	Facility Operator
Company Name:	BRONX WHITESTONE BRIDGE
Contact Type:	Not reported
Contact Name:	GEORGE BASSIL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 904-4304
EMail:	Not reported
Fax Number:	Not reported
Modified By:	AYLAGATI
Date Last Modified:	2017-06-07

Tank Info:

Tank Number:	1
Tank ID:	65746
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	12/01/1941
Date Tank Closed:	04/01/2001
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MJGRIFFI
Last Modified: 05/09/2022

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number: 10
Tank ID: 65755
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 2000
Install Date: 03/01/1995
Date Tank Closed: 04/06/2009
Registered: True
Tank Location: Underground
Tank Type: Equivalent technology
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MJGRIFFI
Last Modified: 05/09/2022

Equipment Records:

I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
H05 - Tank Leak Detection - In-Tank System (ATG)
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A03 - Tank Internal Protection - Fiberglass Liner (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number: 11
Tank ID: 65756

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	20000
Install Date:	12/17/1999
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	2711
Common Name of Substance:	Biodiesel (Heating, On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
F04 - Pipe External Protection - Fiberglass
J02 - Dispenser - Suction Dispenser
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
C02 - Pipe Location - Underground/On-ground
E04 - Piping Secondary Containment - Double walled UG
H05 - Tank Leak Detection - In-Tank System (ATG)
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number:	12
Tank ID:	65757
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	1000
Install Date:	12/17/1999
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	21
Date Test:	01/20/2012
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

E04 - Piping Secondary Containment - Double walled UG
K01 - Spill Prevention - Catch Basin

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

L09 - Piping Leak Detection - Exempt Suction Piping
I02 - Overfill - High Level Alarm
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
F04 - Pipe External Protection - Fiberglass
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
H05 - Tank Leak Detection - In-Tank System (ATG)
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number:	13
Tank ID:	65758
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	2500
Install Date:	12/17/1999
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	2710
Common Name of Substance:	Biodiesel
Tightness Test Method:	21
Date Test:	01/20/2012
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

L09 - Piping Leak Detection - Exempt Suction Piping
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
J02 - Dispenser - Suction Dispenser
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
E04 - Piping Secondary Containment - Double walled UG
H05 - Tank Leak Detection - In-Tank System (ATG)
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number:	14
Tank ID:	65759
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	2500
Install Date:	06/01/1996
Date Tank Closed:	05/08/2006

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	21
Date Test:	08/07/2003
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

E04 - Piping Secondary Containment - Double walled UG
K01 - Spill Prevention - Catch Basin
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
J02 - Dispenser - Suction Dispenser
F04 - Pipe External Protection - Fiberglass
C02 - Pipe Location - Underground/On-ground
I02 - Overfill - High Level Alarm
B04 - Tank External Protection - Fiberglass
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A03 - Tank Internal Protection - Fiberglass Liner (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number:	2
Tank ID:	65747
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	12/01/1941
Date Tank Closed:	04/01/2001
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

Tank Number:	3
Tank ID:	65748
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	3000
Install Date:	12/01/1941
Date Tank Closed:	05/01/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

F00 - Pipe External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None

Tank Number:	4
Tank ID:	65749
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	3000
Install Date:	12/01/1941
Date Tank Closed:	04/04/1994
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None

Tank Number:	5
Tank ID:	65750
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	01/01/1950
Date Tank Closed:	12/16/1993
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number:	6
Tank ID:	65751
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	01/01/1950
Date Tank Closed:	12/16/1993
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

Equipment Records:

F00 - Pipe External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None

Tank Number:	7
Tank ID:	65752
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	12/01/1987
Date Tank Closed:	05/01/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
I04 - Overfill - Product Level Gauge (A/G)
D10 - Pipe Type - Copper

Tank Number:	8
Tank ID:	65753
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	12/01/1941
Date Tank Closed:	05/01/1996
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
I04 - Overfill - Product Level Gauge (A/G)

Tank Number:	9
Tank ID:	65754
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	12/01/1941
Date Tank Closed:	05/01/1996
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

B00 - Tank External Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
I04 - Overfill - Product Level Gauge (A/G)

D21 NW < 1/8 0.082 mi. 434 ft. | **BRONX WHITESTONE BRIDGE**
ONE HUTCHINSON RIVER PARKWAY
BRONX, NY 10465

Site 2 of 2 in cluster D

NY AST | **A100293375**
N/A

Relative: Lower

Actual: 6 ft.

AST:

Name:	BRONX WHITESTONE BRIDGE
Address:	ONE HUTCHINSON RIVER PARKWAY
City,State,Zip:	BRONX, NY 10465
Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-481645
Program Type:	PBS
UTM X:	597911.06250
UTM Y:	4519009.50000
Expiration Date:	09/06/2025
Site Type:	Other

Affiliation Records:

Site Id:	21547
Affiliation Type:	Mail Contact
Company Name:	MTA BRIDGES & TUNNELS (TBTA)
Contact Type:	Not reported
Contact Name:	PASHKO R. CAMAJ MGR. S&H COMPLIANCE
Address1:	SAFETY & HEALTH DEPT.
Address2:	ROBERT MOSES BLDG, ROOM 115
City:	RANDALLS ISLAND
State:	NY
Zip Code:	10035
Country Code:	001
Phone:	(212) 360-3073
EMail:	PCAMAJ@MTABT.ORG
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2020-09-03

Site Id:	21547
Affiliation Type:	Facility Owner
Company Name:	MTA BRIDGES AND TUNNELS (TBTA)
Contact Type:	MANAGER
Contact Name:	GEORGE BASSIL
Address1:	2 BROADWAY
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10004
Country Code:	001
Phone:	(212) 360-3073
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2020-09-03

Site Id:	21547
Affiliation Type:	Emergency Contact
Company Name:	MTA BRIDGES AND TUNNELS (TBTA)
Contact Type:	Not reported
Contact Name:	PASHKO R. CAMAJ

BRONX WHITESTONE BRIDGE (Continued) **A100293375**

Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(212) 360-3073
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2015-09-01

Site Id:	21547
Affiliation Type:	Facility Operator
Company Name:	BRONX WHITESTONE BRIDGE
Contact Type:	Not reported
Contact Name:	GEORGE BASSIL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 904-4304
EMail:	Not reported
Fax Number:	Not reported
Modified By:	AYLAGATI
Date Last Modified:	2017-06-07

Tank Info:

Tank Number:	15
Tank Id:	209252
Material Code:	2711
Common Name of Substance:	Biodiesel (Heating, On-Site Consumption)

Equipment Records:

	F00 - Pipe External Protection - None
	K99 - Spill Prevention - Other
	E01 - Piping Secondary Containment - Diking (AG only)
	L00 - Piping Leak Detection - None
	G01 - Tank Secondary Containment - Diking (Aboveground)
	H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
	A00 - Tank Internal Protection - None
	B01 - Tank External Protection - Painted/Asphalt Coating
	D01 - Pipe Type - Steel/Carbon Steel/Iron
	I04 - Overfill - Product Level Gauge (A/G)
	J00 - Dispenser - None
	C01 - Pipe Location - Aboveground
Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	12/17/1999
Capacity Gallons:	900

BRONX WHITESTONE BRIDGE (Continued) **A100293375**

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	diesel

E22
ESE
< 1/8
0.113 mi.
597 ft.

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY
1 HUTCHINSON RIVER PKWY
BRONX, NY 10465

NY LTANKS **S102150368**
NY Spills **N/A**
NY MANIFEST

Site 1 of 3 in cluster E

Relative:
Higher

Actual:
32 ft.

LTANKS:

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9408139 / 2003-11-06
Facility ID:	9408139
Site ID:	249980
Spill Date:	1994-09-19
Spill Cause:	Tank Test Failure
Spill Source:	Non Major Facility > 1,100 gal
Spill Class:	C3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	JMROMMEL
Referred To:	Not reported
Reported to Dept:	1994-09-19
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1994-10-28
Spill Record Last Update:	2004-06-21
Spiller Name:	GEORGE BASIL
Spiller Company:	TRIBOROUGH AUTHORITY
Spiller Address:	RANDALL'S ISLAND
Spiller County:	001
Spiller Contact:	ROBERT TOZZI
Spiller Phone:	(718) 904-4304
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	177640
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL This site was reassigned from Sigona to Rommel on 1/7/2004. This spill site investigation has been consolidated under Spill No. 9801266.
Remarks:	TTF WILL UNDERCOVER & ISOLATE, RETEST

All TTF:

Facility ID:	9408139

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Spill Number:	9408139
Spill Tank Test:	1543152
Site ID:	249980
Tank Number:	001
Tank Size:	550
Material:	Not reported
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	01
Test Method 2:	Petro-Tite/Petro Comp
Leak Rate:	-.11
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

Facility ID:	9408139
Spill Number:	9408139
Spill Tank Test:	1543153
Site ID:	249980
Tank Number:	002
Tank Size:	550
Material:	Not reported
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	01
Test Method 2:	Petro-Tite/Petro Comp
Leak Rate:	-.11
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	249980
Operable Unit ID:	1005783
Operable Unit:	01
Material ID:	377581
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9607895 / 2003-11-06
Facility ID:	9607895
Site ID:	249984

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Spill Date:	1996-09-24
Spill Cause:	Tank Test Failure
Spill Source:	Non Major Facility > 1,100 gal
Spill Class:	B3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1996-09-24
CID:	322
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1996-09-24
Spill Record Last Update:	2004-06-21
Spiller Name:	BOBBIE ATHEY
Spiller Company:	MTA BRIDGES & TUNNLE
Spiller Address:	RANDALLS ISLAND
Spiller County:	001
Spiller Contact:	PAUL STEFANESCU
Spiller Phone:	(212) 360-2924
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	177640
DEC Memo:	Not reported
Remarks:	Tank Test Failure Tank No. 2 also tested - Leak rate -.106 they will uncover, isolate and retest

All TTF:

Facility ID:	9607895
Spill Number:	9607895
Spill Tank Test:	1544776
Site ID:	249984
Tank Number:	Not reported
Tank Size:	0
Material:	0008
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	01
Test Method 2:	Petro-Tite/Petro Comp
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	249984
Operable Unit ID:	1038996
Operable Unit:	01
Material ID:	347151
Material Code:	0008

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

SPILLS:

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0100477 / 2014-03-18
Facility ID:	0100477
Facility Type:	ER
DER Facility ID:	177640
Site ID:	214399
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	2001-04-12
Investigator:	RVKETANI
Referred To:	031814 CASE APPROVED FOR CLOSURE
Reported to Dept:	2001-04-12
CID:	397
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	0
Date Entered In Computer:	2001-04-12
Spill Record Last Update:	2014-03-18
Spiller Name:	GEORGE BASIL
Spiller Company:	MTA BRIDGES & TUNNELS
Spiller Address:	RANDALLS ISLAND
Spiller Company:	001
Contact Name:	GEORGE BASIL
DEC Memo:	10/18/05: This spill was originally closed by Anthony Sigona as part of a consolidation effort. The spill was reassigned to Tibbe. The investigation (approved by Sigona)that was performed was inadequate to identify the existance of contamination. The spill has been re-opened and further investigation is necessary. 11/12/10 - spill re-assigned from Tibbe to Joe O'Connell 11/16/11 - Raphael Ketani. I tried to contact Colleen Channer of the Triborough Bridge and Tunnel Authority (TBTA) (212) 878-1035, but I could only leave a message with her secretary. Her mailing address is: MTA Legal Department, 347 Madison Avenue, 9th Floor, NY, 10017. The

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

TBTA is part of the MTA.
11/17/11 - Raphael Ketani. I spoke to Ms. Channer. I told her that the DEC still had two open spill
cases, #0100477 and #9801266, and that we were seeking documentation for these cases. I told her
that the spills may involve tanks 1 to 4 on the west side of the northern approach to the bridge.
She said that she will look for the documentation and get back to me.
1/13/12 - Raphael Ketani. Ms.
Channer (212) 878-1035 called me. She said that she had found some documentation for cases #0100477
and #9801266. We went over the documents that she had and that the DEC had. Some were the same. I
told her that #0100477 was open because the consultant used the TCLP method to process the samples,
rather than methods 8260 and 8270, and because not enough samples were taken and no groundwater
samples were taken in the vicinity of tanks 1 and 2. I added that #9801266 was open because the
source of the free floating product that had entered a utility vault was never found. Tanks 3, 4,
and 7 had been removed in the nineteen nineties. However a full soil and groundwater investigation,
and transmission lines investigation for product had never been done. Ms. Channer asked that I send
the MTA a letter indicating the work that needs to be done and which documents the DEC still needs.
Her address is: Senior Environmental Counsel, MTA,347 Madison Avenue, 9th Floor, NY, 10017. 1/17/12
- Raphael Ketani. I sent a letter to Ms. Channer requesting that the MTA submit a work plan to
conduct a soil and groundwater investigation in the vicinity of the former locations of USTs #1 and
#2. I also put in the letter a request for a work plan to conduct an investigation of the former
vicinity of USTs #3, #4 and #7 (spill #9801266). 1/19/12 - Raphael Ketani. I was notified that
Peter Bass, Director of the Environmental Policy and Compliance group at the MTA, should also
receive a copy of the letter to Ms. Channer. So I sent the letter to him. His address is also 347
Madison Avenue. 1/30/12 - Raphael Ketani. Ms. Channer and the MTA environmental engineer, George
Bassil, called me today to request an extension for submitting the work plan as their consultant
was heavily involved with another MTA project and could not devote much attention to the Whitestone
Bridge projects. I granted the MTA a two month extension of the deadline for submitting the work
plan. This set a deadline of April 16. Mr. Bassil's contact information is: MTA, 2 Broadway, 23rd
Floor, NY, 10004, (646) 252-7020. 4/25/12 - Raphael Ketani. Today I received 4/16/12 Environmental
Site Investigation Work Plan from LiRo Engineers. I began my review. 5/15/12 - Raphael Ketani. I
finished my review of the ESIWP. LiRo proposed to perform 6 soil borings. Three in the vicinity of

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the grave for the former tank #3 and its general spill area, and three in the vicinity of the grave
for the former tank #2 and its general spill area. Soil and groundwater samples will be collected.
The soil sample with the highest PID reading will be submitted for analysis and one groundwater
sample from each boring. Samples will be analyzed for STARS list VOCs by method 8260 and for STARS
list SVOCs by method 8270. The results will be compared to CP-51 standards. I disapproved the
ESIWP. First, the list of analytes to be tested should be the expanded lists for VOCs and SVOCs.
Secondly, there were not enough borings planned to properly cover each spill area. Lastly, the
areas affected by the spills need to be delineated. I drafted a disapproval letter for the review
of Hassan Hussein, EE III and head of the Hazardous Materials Unit. I set a deadline of June 22 for
the submission of a revised SIWP. Mr. Hussein approved the letter and it was sent out today.
5/18/12 - Raphael Ketani. Mr. Wesolowski of LiRo Engineering (718) 321-3136, ext 242 called me
today regarding my 5/15/12 response letter for the ESIWP. He said that the area of tanks 4 and 7
has a building over it. The building was constructed in 1998 after the tanks were removed. The
building is an office for their security group and there are many utilities under the floor.
Therefore, it would be very difficult to do any borings there. I told him that LiRo and the MTA
should go ahead and do the work for tanks 1 to 3 anyway. He said that this will be done, but he was
concerned about the request to do borings around tanks 4 and 7. I told him that horizontal borings
may be the only way to sample around the tank graves for these former tanks. I added that we need
some information in order to tell us whether elevated levels of contaminants are still at these
locations. I told him to go ahead with the work around the other tanks and to talk to the MTA and
see what can be done. He said that he will do this. With that, the conversation ended. 6/27/12 -
Raphael Ketani. Mr. Wesolowski sent me a response letter to the DEC ESIWP review letter dated
5/15/12. Attached to the LiRo Engineering response letter was a revised ESIWP dated 6/22/12. I
reviewed both documents. LiRo proposes to do many more borings around tanks #1, #2 and #3.
Additional borings around tanks #4 and #7 will be performed only if contamination appears to be
emanating from them. However, as these two tanks are under the building, the tone of the letter
suggested that the idea of boring around these tanks will be open for discussion. Mr. Wesolowski
also wrote that all environmental samples will be tested for the expanded lists of VOCs and SVOCs.
Also, drilling will proceed deeper than the 20 feet down that was

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

originally planned if
contamination is found at that level. Work will start within 60 days of the approval of the revised
ESIWP. I drafted a response letter approving the revised ESIWP and stating that indoor air PID
surveying should be done in the areas of the building which are above tanks #4 and #7. The letter
was submitted to Mr. Hussein for his approval. Mr. Hussein approved the letter and it was sent out.
8/3/12 - Raphael Ketani. Mr. Wesolowski sent me a letter dated 7/18/12. This letter was LiRo's
response to the DEC 6/7/12 letter approving the June 22 ESIWP. In the letter, Mr. Wesolowski
described the methodology for doing the indoor air sampling with the PID meter. Specifically, if
elevated readings are detected that are not attributed to materials stored in the building, then
air sampling will take place for 1 hour at each location of concern. If there are no elevated
detections, then air sampling will take place at a minimum of 8 sampling stations for a period of
30 minutes each using the PID meter. These 8 or more stations will be over the former locations of
USTs #4 and #7. I found the letter plan to be acceptable and submitted a draft letter to Mr.
Hussein for his review. The letter approved the methodology and also requested that the sampling
take place during a period when air exchange (due to people opening doors to rooms or ventilation)
is not taking place. I stated that this is in order to have stable conditions for the air sampling.
I also added that if the indoor air detections are above 500 ppb or 0.5 ppm, then the NYC DEP
Hotline should be contacted and a work plan must be submitted for a more extensive air
investigation. 8/7/12 - Raphael Ketani. Mr. Hussein approved the letter and it was sent out today.
11/17/12 - Raphael Ketani. I received the 11/13/12 Site Investigation Summary Report from Li Ro.
Soil borings, groundwater sampling and indoor air sampling were conducted on September 12, 13 and
17. Fourteen borings were performed down to 20 feet bgs. Temporary 1 inch monitoring wells were
installed. After the sampling was completed, the borings were filled in and the wells were
abandoned. Soil samples were recovered from LSB-01, 03, 04, 06 to 09, 13, and 15 to 17. Borings
could not be performed at LSB-02, 05, 10 to 12 and 14 due to refusal - it was believed that the
foundations were encountered at these locations. If no visual evidence or PID detections were
encountered in a boring, then soil samples were collected at the water table interface and at 20
feet bgs. The water table was encountered at 3 to 9 feet bgs. Flow was expected to be to the
southwest to the East River. The indoor air results were obtained by sampling at each station for

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30 minutes, except for the entrance area which was sampled for 15 minutes. There were no
detections. Soil samples were collected from 5.5 feet to 20 feet below grade. The VOC results were
either non-detect or well below the CP-51 standards. The SVOC results were either non-detect, well
below the standards or just above the standards. For total results, the most contaminated soil
horizon at LSB-01 was at 7 feet bgs and LSB-03 was worst at 20 feet bgs. The groundwater samples
from LSB-01, LSB-03 and LSB-17 had 280 ppb, 260 ppb and 210 ppb of naphthalene, respectively. The
rest of the VOC results and the SVOC results were either non-detect or slightly above the GW
standards to two digits. From the data in the report, it appears that there is a source of
groundwater contamination. I drafted a letter to Mr. Bassil and to Mr. Wesolowski approving the
SISR and requesting that groundwater contamination delineation take place. The draft letter was
submitted to Mr. Hussein for his approval. 12/4/12 - Raphael Ketani. The letter was approved by Mr.
Hussein and was sent out with a deadline of January 4, 2013 for submission of a work plan for
delineating the groundwater contamination. 1/9/2013 - Raphael Ketani. I reviewed the LiRo 1/4/13
Supplemental Environmental Site Investigation Work Plan. LiRo plans to install 3 wells. One well
will be upgradient of LSB-17, one well will be downgradient of LSB-17 and one well will be
downgradient of locations LSB-1 and LSB-3. A maximum of 2 soil samples and 1 groundwater sample
will be taken from each proposed well location (MW-1 to MW-3). If no contamination is found at a
location, then one soil sample will be taken from just above the water table. The water table is
believed to be at about 8 feet bgs. I found the work plan to be acceptable and drafted a letter for
the review of Mr. Hussein approving the work plan and requesting that each well be surveyed and a
groundwater flow map be constructed. 1/11/13 - Raphael Ketani. Mr. Hussein approved the letter and
it was sent out today. 12/23/13 - Raphael Ketani. As there has been no correspondence from Martin
Wesolowski of LiRo Engineering (718) 321-3136, ext 242 regarding conducting the work that was
described in the 1/4/13 SESIWP, I sent an e-mail to Colleen Channer (legal division Triborough
Bridge and Tunnel Authority (TBTA) (212) 878-1035), Peter Bass (Director of Environmental Policy
and Compliance) and George Bassil (MTA environmental engineer (646) 252-7020) requesting that the
work start by February 3, 2014, or else the spill cases will be referred to the Office of General
Counsel for legal action. Later, Mr. Wesolowski responded by e-mail and stated that the TBTA was
obtaining the funding to do the approved work. The work is scheduled

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

to take place during early
January 2014. 1/7/14 - Raphael Ketani. Mr. Wesolowski sent me an e-mail stating that the agreed
upon work will take place on 1/21/14. 1/21/14 - Raphael Ketani. Mr. Wesolowski sent me an e-mail
stating that they had completed locating the utilities and doing the markouts for the 3 planned
wells. Due to the snowy weather, the actual work will not start until 1/23/14. 1/23/14 - Raphael
Ketani. Mr. Wesolowski sent me an e-mail stating that the wells were installed today and that
groundwater sampling will take place in two weeks. A report will be sent to the DEC in February
2014. 3/7/14 - Raphael Ketani. I reviewed the 3/6/14 LiRo Engineers, Inc. Supplemental
Environmental Site Investigation Report. The supplemental investigation took place in order to
further delineate the extent of the groundwater contamination at 3 specific locations. Borings SB-1
to SB-3 were installed on 1/23/14. None of the samples had odors or PID hits. These borings were
turned into wells MW-1 to MW-3 and developed on 1/29/14. The wells were sampled on 2/12/14. All of
the soil and groundwater samples were analyzed via methods 8260B and 8270C. The soil samples were
almost entirely non-detect for VOCs. The SVOC hits were also almost entirely non-detect with hits
that were well below the CP-51 unrestricted soil standards. The groundwater results for all of the
samples were almost entirely non-detect for the VOCs and the SVOCs. I sent an e-mail to Mr. Bassil
and Mr. Wesolowski stating that the Supplemental Environmental SIR had been approved, but the
Department was a little concerned about some past naphthalene results which had been from samples
taken from wells LSB-1, LSB-3 and LSB-17. Later, Mr. Wesolowski responded by e-mail that after the
September 2012 sampling event, these temporary wells had been removed. So no additional groundwater
samples could be taken. 3/18/14 - Raphael Ketani. The spill case was presented to Mr. Hussein for
closure. Mr. Hussein reviewed the data and determined that the spill case could be closed. Based
upon the documentation and the data in the case file, it has been determined that the oil spill has
been remediated and that any residual contamination is not a threat to the public or the
environment. Additionally, from the PID screening data, it has been determined that there are no
threats from the vapors of volatile chemicals in the MTA owned and maintained building. Therefore,
the spill case has been closed effective today.

Remarks: Petroleum Contaminated Soils reported as Gasoline was found during Tank Excataion work at the Site.

All Materials:
Site ID: 214399
Operable Unit ID: 839193

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Operable Unit:	01
Material ID:	536184
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9201985 / 2011-11-16
Facility ID:	9201985
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249978
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	1991-06-11
Investigator:	RVKETANI
Referred To:	NEED FURTHER DOCUMENTATION
Reported to Dept:	1992-01-13
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1992-05-20
Spill Record Last Update:	2011-11-17
Spiller Name:	GEORGE BASIL
Spiller Company:	MTA BRIDGES & TUNNEL
Spiller Address:	RANDALLS ISLAND
Spiller Company:	001
Contact Name:	GEORGE BASIL
DEC Memo:	09/04/07: Transferred from Sigona to Tibbe. Spill reopened due to lack of documentation of proper remediation of contamination identified around tanks 5&6, as well as 3, 4 and 7. 11/12/10 - spill re-assigned from Tibbe to Joe O'Connell 11/10/11 - Raphael Ketani. Kevin O'Connor of Action Remediation (516) 781-3000/cell (516) 236-7468 called regarding this spill case and cases #9601373, #9801266 and #0100477. He mentioned that an attempt was made to combine the 4 cases into one by the DEC, but this added to the confusion. The areas of concern are to the

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

west and to the east of the
north end approach to the Whitestone Bridge. He said that many years back, the tanks were taken
out, but the contaminated soil wasn't. I told him that there were almost no documents in the e-docs
and no case notes. He said that he would like to give the DEC all of the documents pertaining to
this site. I asked him to put them on disk. He said that he will. Mr. O'Connor said that he would
like to meet in person to discuss the site. I told him that would be fine. The PBS is #2-481645.
There are at least 6 tanks, according to some notes I saw. 11/16/11 - Raphael Ketani. A meeting
took place with Mr. O'Connor of Action Remediation and Tom O'Brien of Active Environmental
Techologies Inc. (609) 702-1500. Mr. O'Connor did most of the talking for the two consultants. He
explained that Action and Active were originally
sub-sub-sub-contractors for a very large
construction project to widen the northern approach to to the Whitestone Bridge. They were involved
in removing tanks and excavating contaminated soil. The work was done in two weeks. He said that
PBS case #2-481645 lists only four tanks that are still active. These are tank #11 (20,000 gal. UST
with biodiesel), tank #12 (1,000 gal. UST with gasoline), tank #13 (2,500 gal. UST with biodiesel)
and tank #15 (900 gal. UST with biodiesel). Mr. O'Connor added that their companies removed tanks
#10 (north part west side) and #5 and #6 (south part west side). However, tanks #8 and #9 on the
east side had already been removed. So all they did there was soil removal. Mr. O'Brien stated that
when they started digging, they discovered that the upper layer was made of cobbles and the rest
was native marsh clay. Lots of water came out of the layer of cobbles and this proved costly to
handle. The Triborough Bridge and Tunnel Authority refused to pay them for the cost of handling all
of the water from the cobble zone. So the remediation reports were never sent to the TBTA. Steel
sheet pilings were used to keep the holes open at all of the tank excavation locations. Soil end
point samples were taken by boring holes through the sheet piling. Mr. O'Brien showed me some
pictures of the work at the various locatoins. Mr. O'Connor had sent me e-mail pdf files containing
the soil analytical results, groundwater analytical results and some diagrams showing where the
samples had been taken. He also gave me copies of the manifests for the soil that was removed from
all of the locations. However, he said that the manifests were not in any particular order and were
for all of the excavation locations. Mr. O'Connor showed me PBS printouts for tanks #5 and #6. The
closure dates were 12/16/1993. He added that tank #10 was pulled by his company and it was a steel

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

tank with a fiberglass wrapping. It was in very good condition. After the meeting, I reviewed the
Long Island Analytical Labs 4/7/09 and 4/14/09 soil and groundwater analytical results reports.
They were almost entirely non-detect. The few hits that were present were almost entirely below
TAGM limits. I also reviewed the Action Remediation 5/6/09 Closeout Package for tank #10 (2,000
gal. UST in the northern part of the area on the west side) and the Action Remediation 6/1/09 soil
profile and sampling letter for all of the sampling locations. I also reviewed the manifests, other
documents and pictures concerning tanks #5, #6 and #10. Based upon my data in the documents in the
case file, I determined that the great majority of the contamination had been removed and that the
residual contamination was not a threat to the public or the environment. Also, as the groundwater
that had entered the site is part of the groundwater table that is under the landfill which is
Ferry Point Park, I determined that any impacts are not due conditions at the former tank removal
areas. So I closed the spill case. 11/17/11 - Raphael Ketani. I sent Mr. O'Connor and Mr. O'Brien a
spill closure letter for this spill case and case number 9601373.

Remarks: TWO 550'S (# 5 & 6) TAKEN OUT OF SERVICE & EMPTIED.

All Materials:

Site ID:	249978
Operable Unit ID:	969335
Operable Unit:	01
Material ID:	413265
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9601373 / 2011-11-16
Facility ID:	9601373
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249983
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	1996-04-26
Investigator:	RVKETANI
Referred To:	NEED FUIRTHER DOCUMENTATION.

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Reported to Dept:	1996-04-26
CID:	257
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1996-04-26
Spill Record Last Update:	2011-11-17
Spiller Name:	GEORGE BASIL
Spiller Company:	MTA BRIDGES & TUNNEL
Spiller Address:	RANDALLS ISLAND
Spiller Company:	001
Contact Name:	GEORGE BASIL
DEC Memo:	09-04-07: Transferred from Sigona to Tibbe. Spill reopened becuase of lack of documentation concerning proper remediation. 11/12/10 - spill re-assigned from Tibbe to Joe O'Connell 11/10/11 - Raphael Ketani. Kevin O'Connor of Action Remediation (516) 781-3000/cell (516) 236-7468 called regarding this spill case and cases #9201985, #9801266 and #0100477. He mentioned that an attempt was made to combine the 4 cases into one by the DEC, but this added to the confusion. The areas of concern are to the west and to the east of the north end approach to the Whitestone Bridge. He said that many years back, the tanks were taken out, but the contaminated soil wasn't. I told him that there were almost no documents in the e-docs and no case notes. He said that he would like to give the DEC all of the documents pertaining to this site. I asked him to put them on disk. He said that he will. Mr. O'Connor said that he would like to meet in person to discuss the site. I told him that would be fine. The PBS is #2-481645. There are at least 6 tanks, according to some notes I saw. 11/16/11 - Raphael Ketani. A meeting took place with Mr. O'Connor of Action Remediation and Tom O'Brien of Active Environmental Techologies Inc. (609) 702-1500. Mr. O'Connor did most of the talking for the two consultants. He explained that Action and Active were originally sub-sub-sub-contractors for a very large construction project to widen the northern approach to to the Whitestone Bridge. They were involved in removing tanks and excavating contaminated soil. The work was done in two weeks. He said that PBS case #2-481645 lists only four tanks that are still active. These are tank #11 (20,000 gal. UST with biodiesel), tank #12 (1,000 gal. UST with gasoline), tank #13 (2,500 gal. UST with biodiesel) and tank #15 (900 gal. UST with biodiesel). Mr. O'Connor added that their companies removed tanks #10 (north part west

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

side) and #5 and #6 (south
part west side). However, tanks #8 and #9 on the east side had already
been removed. So all they
did there was soil removal. Mr. O'Brien stated that when they started
digging, they discovered that
the upper layer was made of cobbles and the rest was native marsh
clay. Lots of water came out of
the layer of cobbles and this proved costly to handle. The Triborough
Bridge and Tunnel Authority
refused to pay them for the cost of handling all of the water from the
cobble zone. So the
remediation reports were never sent to the TBTA. Steel sheet pilings
were used to keep the holes
open at all of the tank excavation locations. Soil end point samples
were taken by boring holes
through the sheet piling. Mr. O'Brien showed me some pictures of the
work at the various locatoins.
Mr. O'Connor had sent me e-mail pdf files containing the soil
analytical results, groundwater
analytical results and some diagrams showing where the samples had
been taken. He also gave me
copies of the manifests for the soil that was removed from all of the
locations. However, he said
that the manifests were not in any particular order and were for all
of the excavation locations.
Mr. O'Connor showed me PBS printouts for tanks #8 and #9. The closure
dates were 5/1/96. After the
meeting, I reviewed the Long Island Analytical Labs 4/16/09 and
4/17/09 soil analytical results
reports. They were almost entirely non-detect. The few hits that were
present were almost entirely
below TAGM limits. I also reviewed the Action Remediation 6/1/09 soil
profile and sampling letter
for all of the sampling locations. I also reviewed the manifests,
other documents and pictures
concerning tanks #8 and #9. Based upon my data in the documents in the
case file, I determined that
the great majority of the contamination had been removed and that the
residual contamination was
not a threat to the public or the environment. Also, as the
groundwater that had entered the site
is part of the groundwater table that is under the landfill which is
Ferry Point Park, I determined
that any impacts are not due conditions at the former tank removal
areas. So I closed the spill
case. 11/17/11 - Raphael Ketani. I sent Mr. O'Connor and Mr. O'Brien a
spill closure letter for
this spill case and case number 9201985.

Remarks: Contaminated groundwater was discovered in the Tank
Excavationcontaminated in a hole.

All Materials:

Site ID:	249983
Operable Unit ID:	1029026
Operable Unit:	01
Material ID:	351180
Material Code:	0008
Material Name:	diesel

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9801266 / 2014-03-18
Facility ID:	9801266
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249985
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	1998-04-24
Investigator:	RVKETANI
Referred To:	031814 SPILL CASE APPRVD FOR CLOSURE
Reported to Dept:	1998-04-29
CID:	257
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1998-04-29
Spill Record Last Update:	2014-03-18
Spiller Name:	GEORGE BASIL
Spiller Company:	MTA BRIDGES & TUNNEL
Spiller Address:	RANDALLS ISLAND
Spiller Company:	001
Contact Name:	RAYMOND LO
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL This spill site investigation has been consolidated under Spill No. 9801266. A site investigation work plan was submitted to DEC for review and approval on November 7, 2003. Investigation was approved on 6/21/2004. The remaining spill case is under 9801266. DEC's comments regarding a proposed Work Plan for Site Investigation by BEM Systems, Inc., dated November 5, 2003. Based on the results of our site visit and PBS inspection on June 25, 2003, and evaluation of the proposal by BEM, the DEC accepts MTA Bridges and Tunnel's Work Plan to perform further investigatory actions to address any of the DEC's concerns related to the prior spill investigations for

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

this spill number referenced at
this site. MTA Bridges & Tunnels must now complete the implementation
of the BEM's Work Plan
according to the proposed schedule 7/19/04 - AUSTIN - TRANSFERRED FROM
SIGONA TO ROMMEL DUE TO THE
OTHER TBTA SITES BEING UNDER HER JURISDICTION - END 03/29/05: Transfer
from Rommel to Tibbe.
11/12/10 - spill re-assigned from Tibbe to Joe O'Connell 11/16/11 -
Raphael Ketani. I tried to
contact Colleen Channer of the Triborough Bridge and Tunnel Authority
(TBTA) (212) 878-1035, but I
could only leave a message with her secretary. Her mailing address is:
MTA Legal Department, 347
Madison Avenue, 9th Floor, NY, 10017. The TBTA is part of the MTA.
11/17/11 - Raphael Ketani. I
spoke to Ms. Channer. I told her that the DEC still had two open spill
cases, #0100477 and
#9801266, and that we were seeking documentation for these cases. I
told her that the spills may
involve tanks 1 to 4 on the west side of the northern approach to the
bridge. She said that she
will look for the documentation and get back to me. 1/13/12 - Raphael
Ketani. Ms. Channer (212)
878-1035 called me. She said that she had found some documentation for
cases #0100477 and #9801266.
We went over the documents that she had and that the DEC had. Some
were the same. I told her that
#0100477 was open because the consultant used the TCLP method to
process the samples, rather than
methods 8260 and 8270, and because not enough samples were taken and
no groundwater samples were
taken in the vicinity of tanks 1 and 2. I added that #9801266 was open
because the source of the
free floating product that had entered a utility vault was never
found. Tanks 3, 4, and 7 had been
removed in the nineteen nineties. However a full soil and groundwater
investigation, and
transmission lines investigation for product had never been done. Ms.
Channer asked that I send the
MTA a letter indicating the work that needs to be done and which
documents the DEC still needs. Her
address is: Senior Environmental Counsel, MTA,347 Madison Avenue, 9th
Floor, NY, 10017. 1/17/12 -
Raphael Ketani. I sent a letter to Ms. Channer requesting that the MTA
submit a work plan to
conduct a soil and groundwater investigation in the vicinity of the
former locations of USTs #3, #4
and #7. I also put in the letter a request for a work plan to conduct
an investigation of the
former vicinity of USTs #1 and #2 (spill #0100477). 1/19/12 - Raphael
Ketani. I was notified that
Peter Bass, Director of the Environmental Policy and Compliance group
at the MTA, should also
receive a copy of the letter to Ms. Channer. So I sent the letter to
him. His address is also 347
Madison Avenue. 1/30/12 - Raphael Ketani. Ms. Channer and the MTA
environmental engineer, George

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Bassil, called me today to request an extension for submitting the work plan as their consultant
was heavily involved with another MTA project and could not devote much attention to the Whitestone
Bridge projects. I granted the MTA a two month extension of the deadline for submitting the work
plan. This set the deadline at April 16. Mr. Bassil's contact information is: MTA, 2 Broadway, 23rd
Floor, NY, 10004, (646) 252-7020. 4/25/12 - Raphael Ketani. Today I received 4/16/12 Environmental
Site Investigation Work Plan from LiRo Engineers. I began my review. 5/15/12 - Raphael Ketani. I
finished my review of the ESIWP. LiRo proposed to perform 6 soil borings. Three in the vicinity of
the grave for the former tank #3 and its general spill area, and three in the vicinity of the grave
for the former tank #2 and its general spill area. Soil and groundwater samples will be collected.
The soil sample with the highest PID reading will be submitted for analysis and one groundwater
sample from each boring. Samples will be analyzed for STARS list VOCs by method 8260 and for STARS
list SVOCs by method 8270. The results will be compared to CP-51 standards. I disapproved the
ESIWP. First, the list of analytes to be tested should be the expanded lists for VOCs and SVOCs.
Secondly, there were not enough borings planned to properly cover each spill area. Lastly, the
areas affected by the spills need to be delineated. I drafted a disapproval letter for the review
of Hassan Hussein, EE III and head of the Hazardous Materials Unit. I set a deadline of June 22 for
the submission of a revised SIWP. Mr. Hussein approved the letter and it was sent out today.
5/18/12 - Raphael Ketani. Mr. Wesolowski of LiRo Engineering (718) 321-3136, ext 242 called me
today regarding my 5/15/12 response letter for the ESIWP. He said that the area of tanks 4 and 7
has a building over it. The building was constructed in 1998 after the tanks were removed. The
building is an office for their security group and there are many utilities under the floor.
Therefore, it would be very difficult to do any borings there. I told him that LiRo and the MTA
should go ahead and do the work for tanks 1 to 3 anyway. He said that this will be done, but he was
concerned about the request to do borings around tanks 4 and 7. I told him that horizontal borings
may be the only way to sample around the tank graves for these former tanks. I added that we need
some information in order to tell us whether elevated levels of contaminants are still at these
locations. I told him to go ahead with the work around the other tanks and to talk to the MTA and
see what can be done. He said that he will do this. With that, the conversation ended. 6/27/12 -
Raphael Ketani. Mr. Wesolowski sent me a response letter to the DEC

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

ESIWP review letter dated
5/15/12. Attached to the LiRo Engineering response letter was a
revised ESIWP dated 6/22/12. I
reviewed both documents. LiRo proposes to do many more borings around
tanks #1, #2 and #3.
Additional borings around tanks #4 and #7 will be performed only if
contamination appears to be
emanating from them. However, as these two tanks are under the
building, the tone of the letter
suggested that the idea of boring around these tanks will be open for
discussion. Mr. Wesolowski
also wrote that all environmental samples will be tested for the
expanded lists of VOCs and SVOCs.
Also, drilling will proceed deeper than the 20 feet down that was
originally planned if
contamination is found at that level. Work will start within 60 days
of the approval of the revised
ESIWP. I drafted a response letter approving the revised ESIWP and
stating that indoor air PID
surveying should be done in the areas of the building which are above
tanks #4 and #7. The letter
was submitted to Mr. Hussein for his approval. Mr. Hussein approved
the letter and it was sent out.
8/3/12 - Raphael Ketani. Mr. Wesolowski sent me a letter dated
7/18/12. This letter was LiRo's
response to the DEC 6/7/12 letter approving the June 22 ESIWP. In the
letter, Mr. Wesolowski
described the methodology for doing the indoor air sampling with the
PID meter. Specifically, if
elevated readings are detected that are not attributed to materials
stored in the building, then
air sampling will take place for 1 hour at each location of concern.
If there are no elevated
detections, then air sampling will take place at a minimum of 8
sampling stations for a period of
30 minutes each using the PID meter. These 8 or more stations will be
over the former locations of
USTs #4 and #7. I found the letter plan to be acceptable and submitted
a draft letter to Mr.
Hussein for his review. The letter approved the methodology and also
requested that the sampling
take place during a period when air exchange (due to people opening
doors to rooms or ventilation)
is not taking place. I stated that this is in order to have stable
conditions for the air sampling.
I also added that if the indoor air detections are above 500 ppb or
0.5 ppm, then the NYC DEP
Hotline should be contacted and a work plan must be submitted for a
more extensive air
investigation. 8/7/12 - Raphael Ketani. Mr. Hussein approved the
letter and it was sent out today.
11/17/12 - Raphael Ketani. I received the 11/13/12 Site Investigation
Summary Report from Li Ro.
Soil borings, groundwater sampling and indoor air sampling were
conducted on September 12, 13 and
17. Fourteen borings were performed down to 20 feet bgs. Temporary 1
inch monitoring wells were

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

installed. After the sampling was completed, the borings were filled in and the wells were
abandoned. Soil samples were recovered from LSB-01, 03, 04, 06 to 09, 13, and 15 to 17. Borings
could not be performed at LSB-02, 05, 10 to 12 and 14 due to refusal - it was believed that the
foundations were encountered at these locations. When no visual evidence or PID detections were
encountered in a boring, then soil samples were collected at the water table interface and at 20
feet bgs. The water table was encountered at 3 to 9 feet bgs. Flow was expected to be to the
southwest to the East River. The indoor air results were obtained by sampling at each station for
30 minutes, except for the entrance area which was sampled for 15 minutes. There were no
detections. Soil samples were collected from 5.5 feet to 20 feet below grade. The VOC results were
either non-detect or well below the CP-51 standards. The SVOC results were either non-detect, well
below the standards or just above the standards. For total results, the most contaminated soil
horizon at LSB-01 was at 7 feet bgs and LSB-03 was worst at 20 feet bgs. The groundwater samples
from LSB-01, LSB-03 and LSB-17 had 280 ppb, 260 ppb and 210 ppb of naphthalene, respectively. The
rest of the VOC results and the SVOC results were either non-detect or slightly above the GW
standards to two digits. From the data in the report, it appears that there is a source of
groundwater contamination. I drafted a letter to Mr. Bassil and to Mr. Wesolowski approving the
SISR and requesting that groundwater contamination delineation take place. The draft letter was
submitted to Mr. Hussein for his approval. 12/4/12 - Raphael Ketani. The letter was approved by Mr.
Hussein and was sent out with a deadline of January 4, 2013 for submission of a work plan for
delineating the groundwater contamination. 1/9/2013 - Raphael Ketani. I reviewed the LiRo 1/4/13
Supplemental Environmental Site Investigation Work Plan. LiRo plans to install 3 wells. One well
will be upgradient of LSB-17, one well will be downgradient of LSB-17 and one well will be
downgradient of locations LSB-1 and LSB-3. A maximum of 2 soil samples and 1 groundwater sample
will be taken from each proposed well location (MW-1 to MW-3). If no contamination is found at a
location, then one soil sample will be taken from just above the water table. The water table is
believed to be at about 8 feet bgs. I found the work plan to be acceptable and drafted a letter for
the review of Mr. Hussein approving the work plan and requesting that each well be surveyed and a
groundwater flow map be constructed. 1/11/13 - Raphael Ketani. Mr. Hussein found the letter to be
acceptable and it was sent out today. 12/23/13 - Raphael Ketani. As

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there has been no
correspondence from Martin Wesolowski of LiRo Engineering (718)
321-3136, ext 242 regarding
conducting the work that was described in the 1/4/13 SESIWP, I sent an
e-mail to Colleen Channer
(legal division Triborough Bridge and Tunnel Authority (TBTA) (212)
878-1035), Peter Bass (Director
of Environmental Policy and Compliance) and George Bassil (MTA
environmental engineer (646)
252-7020) requesting that the work start by February 3, 2014, or else
the spill cases will be
referred to the Office of General Counsel for legal action. Later, Mr.
Wesolowski responded by
e-mail and stated that the TBTA was obtaining the funding to do the
approved work. The work is
scheduled to take place during early January 2014. 1/7/14 - Raphael
Ketani. Mr. Wesolowski sent me
an e-mail stating that the agreed upon work will take place on
1/21/14. 1/21/14 - Raphael Ketani.
Mr. Wesolowski sent me an e-mail stating that they had completed
locating the utilities and doing
the markouts for the 3 planned wells. Due to the snowy weather, the
actual work will not start
until 1/23/14. 1/23/14 - Raphael Ketani. Mr. Wesolowski sent me an
e-mail stating that the wells
were installed today and that groundwater sampling will take place in
two weeks. A report will be
sent to the DEC in February 2014. 3/7/14 - Raphael Ketani. I reviewed
the 3/6/14 LiRo Engineers,
Inc. Supplemental Environmental Site Investigation Report. The
supplemental investigation took
place in order to further delineate the extent of the groundwater
contamination at 3 specific
locations. Borings SB-1 to SB-3 were installed on 1/23/14. None of the
samples had odors or PID
hits. These borings were turned into wells MW-1 to MW-3 and developed
on 1/29/14. The wells were
sampled on 2/12/14. All of the soil and groundwater samples were
analyzed via methods 8260B and
8270C. The soil samples were almost entirely non-detect for VOCs. The
SVOC hits were also almost
entirely non-detect with hits that were well below the CP-51
unrestricted soil standards. The
groundwater results for all of the samples were almost entirely
non-detect for the VOCs and the
SVOCs. I sent an e-mail to Mr. Bassil and Mr. Wesolowski stating that
the Supplemental
Environmental SIR had been approved, but the Department was a little
concerned about some past
naphthalene results which had been from samples taken from wells
LSB-1, LSB-3 and LSB-17. Later,
Mr. Wesolowski responded by e-mail that after the September 2012
sampling event, these temporary
wells had been removed. So no additional groundwater samples could be
taken. 3/18/14 - Raphael
Ketani. The spill case was presented to Mr. Hussein for closure. Mr.
Hussein reviewed the data and

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

	determined that the spill case could be closed. Based upon the documentation and the data in the case file, it has been determined that the oil spill has been remediated and that any residual contamination is not a threat to the public or the environment. Additionally, from the PID screening data, it has been determined that there are no threats from the vapors of volatile chemicals in the MTA owned and maintained building. Therefore, the spill case has been closed effective today.
Remarks:	DEC Sigona was performing a site inspection and contamination was found.

All Materials:

Site ID:	249985
Operable Unit ID:	1061927
Operable Unit:	01
Material ID:	323195
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9303540 / 2003-11-06
Facility ID:	9303540
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249979
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	1993-06-17
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1993-06-17
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1993-06-24
Spill Record Last Update:	2004-06-21

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Spiller Name:	GEORGE BASIL
Spiller Company:	TRIBOROUGH AUTHORITY
Spiller Address:	RANDALL'S ISLAND
Spiller Company:	001
Contact Name:	GEORGE BASIL
DEC Memo:	Not reported
Remarks:	WHILE THE TBTA WAS PERFORMING AN EXCAVATION FOR A NEW SEWER PIPE THEY FOUND PETROLEUM CONTAMINATED SOILS.

All Materials:

Site ID:	249979
Operable Unit ID:	981958
Operable Unit:	01
Material ID:	397102
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9501417 / 2003-11-24
Facility ID:	9501417
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249981
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	1995-05-03
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1995-05-03
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1995-05-18
Spill Record Last Update:	2004-06-21
Spiller Name:	GEORGE BASIL
Spiller Company:	MTA BRIDGES & TUNNELS
Spiller Address:	RANDALLS ISLAND
Spiller Company:	001
Contact Name:	Not reported

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

DEC Memo:	Not reported
Remarks:	LEAKING PIPE IN ABOVE GROUND TANK - SMALL AMOUNT WENT INTO SEWER - CONTAINED, CLEANUP CREW ON WAY.

All Materials:

Site ID:	249981
Operable Unit ID:	1012154
Operable Unit:	01
Material ID:	370025
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	150.00
Units:	G
Recovered:	.00
Resource Affected:	Sewer
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9503672 / 1995-06-26
Facility ID:	9503672
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249982
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	1995-06-26
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1995-06-26
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	1995-06-26
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1995-07-18
Spill Record Last Update:	2004-06-21
Spiller Name:	GEORGE BASIL
Spiller Company:	MTA BRIDGES & TUNNELS
Spiller Address:	RANDALLS ISLAND
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	Not reported
Remarks:	DRIVER WAS FILLING A TANK & THE TANK GAUGE WAS BROKE - TANK OVERFLOWED SPILL TEAM WAS CALLED & RESPONDING

All Materials:

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Site ID:	249982
Operable Unit ID:	1014900
Operable Unit:	01
Material ID:	365176
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9906022 / 1999-08-30
Facility ID:	9906022
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249986
DEC Region:	2
Spill Cause:	Traffic Accident
Spill Class:	C3
SWIS:	0301
Spill Date:	1999-08-19
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1999-08-19
CID:	389
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1999-08-19
Spill Record Last Update:	2004-06-21
Spiller Name:	Not reported
Spiller Company:	WEBSTER TRUCKING
Spiller Address:	1800 CORPORATE BLVD
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	Not reported
Remarks:	SPILL OCCURRED APPROX 2 HOURS AGO ON THE WHITESTONE BRIDGE IN QUEENS. CLEAN UP BY PENSKE AND TOWED TO ROCKAWAY QUEENS TERMINAL.

All Materials:

Site ID:	249986
Operable Unit ID:	1080469
Operable Unit:	01
Material ID:	302297
Material Code:	0001A

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	8807410 / 1992-12-04
Facility ID:	8807410
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249977
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	A3
SWIS:	0301
Spill Date:	1988-12-07
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1988-12-07
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	1992-12-04
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1988-12-21
Spill Record Last Update:	2004-06-21
Spiller Name:	GEORGE BASIL
Spiller Company:	MTA BRIDGES & TUNNELS
Spiller Address:	RANDALLS ISLAND
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	Not reported
Remarks:	TEMPCO - HEATING UNIT - LEAKS INTO BOOTHS CAUSING IRRITATION, VOMITING20 PEOPLE AFFECTED, WORKERS WON'T ASK FOR UNION DELEGATE. NOTIFIED NYSDOH, DOL, NYCDOH.

All Materials:

Site ID:	249977
Operable Unit ID:	924079
Operable Unit:	01
Material ID:	455753
Material Code:	0028A
Material Name:	ethylene glycol
Case No.:	00107211
Material FA:	Hazardous Material
Quantity:	.00

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Units:	G
Recovered:	.00
Resource Affected:	Air
Oxygenate:	Not reported

NY MANIFEST:

EPA ID:	NYR000154260
Country:	USA
Name:	MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY
Address:	1 HUTCHINSON RIVER PKWY
Address 2:	Not reported
City,State,Zip:	BRONX, NY 10465-1857
Zip 4:	Not reported
Location Address 1:	1 HUTCHINSON RIVER PKWY
Location Address 2:	Not reported
Location City,State,Zip:	BRONX, NY 10465
Location Zip 4:	Not reported
Facility Status:	Not reported
Total Tanks:	Not reported
Code:	BP

Mailing:

Mailing Name:	MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY
Mailing Contact:	TBTA/MTA BRIDGES & TUNNELS
Mailing Address 1:	1 HUTCHINSON RIVER PKWY
Mailing Address 2:	Not reported
Mailing City,State,Zip:	BRONX, NY 10465
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124688454

Manifest Data:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	03/03/2014
Trans1 Recv Date:	03/03/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/03/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	001053507GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	IGNITABLE WASTE
Waste Code b:	BENZENE
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	55
Units:	Gallons (liquids only)
Number of Containers:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Handling Method:	Treat
Specific Gravity:	1

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	05/24/2011
Trans1 Recv Date:	05/24/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/24/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	003534721JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	IGNITABLE WASTE
Waste Code b:	BENZENE
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	55
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Treat
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYR000134957
Year:	2018
Trans2 State ID:	PAD982661381
Generator Ship Date:	07/31/2013
Trans1 Recv Date:	07/31/2013
Trans2 Recv Date:	08/09/2013
TSD Site Recv Date:	08/19/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	PAD085690592
TSDF ID 2:	Not reported
Manifest Tracking Number:	002835527FLE
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	LEAD
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	500
Units:	Pounds
Number of Containers:	2
Container Type:	Metal drums, barrels, kegs

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Handling Method:	Treat
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027103
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	03/30/2016
Trans1 Recv Date:	03/30/2016
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/30/2016
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	015626081JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code a:	LEAD
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	40
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Treat
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027103
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	03/30/2016
Trans1 Recv Date:	03/30/2016

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/30/2016
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	015626081JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	MERCURY
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	4500
Units:	Pounds
Number of Containers:	9
Container Type:	Wooden boxes, cartons, cases
Handling Method:	Treat
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	11/04/2013
Trans1 Recv Date:	11/04/2013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/04/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	010913928JJK

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code a:	LEAD
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	300
Units:	Pounds
Number of Containers:	3
Container Type:	Metal drums, barrels, kegs
Handling Method:	Treat
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	11/04/2013
Trans1 Recv Date:	11/04/2013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/04/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	010913928JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

MGMT Method Type Code:	H110
Waste Code a:	LEAD
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	60
Units:	Pounds
Number of Containers:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Handling Method:	Treat
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	11/04/2013
Trans1 Recv Date:	11/04/2013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/04/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	010913928JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	LEAD
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	600
Units:	Pounds
Number of Containers:	6
Container Type:	Metal drums, barrels, kegs
Handling Method:	Treat
Specific Gravity:	1

E23
ESE
< 1/8
0.113 mi.
597 ft.

FARRY POINT PARK
WHITSTONE BRIDGE
BRONX, NY

NY Spills **S104952961**
N/A

Site 2 of 3 in cluster E

Relative:
Higher

Actual:
32 ft.

SPILLS:

Name:	FARRY POINT PARK
Address:	WHITSTONE BRIDGE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0012477 / 2003-06-09
Facility ID:	0012477
Facility Type:	ER
DER Facility ID:	172388
Site ID:	207749
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C3
SWIS:	0301
Spill Date:	2001-02-21
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2001-02-21
CID:	270
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2001-02-21
Spill Record Last Update:	2003-06-09
Spiller Name:	CAKLLER
Spiller Company:	FAIRWAYS INC
Spiller Address:	115 STEVENS AV
Spiller Company:	001
Contact Name:	CALLER
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was SANGESLAND
Remarks:	line broke on vehicle. clean up in progress

All Materials:

Site ID:	207749
Operable Unit ID:	834003

FARRY POINT PARK (Continued) **S104952961**

Operable Unit:	01
Material ID:	542742
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	4.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

F24 **LIBERTY MECHANICAL/CABLEVISION** **NY TANKS** **U001831844**
NNW **550 BRUSH AVENUE** **NY NYC LAND USE** **N/A**
< 1/8 **BRONX, NY 10465**
0.114 mi.
601 ft. **Site 1 of 9 in cluster F**

Relative:
Lower

Actual:
8 ft.

TANKS:

Name:	LIBERTY MECHANICAL/CABLEVISION
Address:	550 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Facility Id:	2-080799
Region:	STATE
DEC Region:	2
Site Status:	Active
Program Type:	PBS
Expiration Date:	03/26/2028
UTM X:	597964.87894
UTM Y:	4519189.11855

NYC LAND USE:

Name:	Not reported
Address:	550 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Latitude:	40.8176678
Longitude:	-73.8380585
Type Of Ownership Code:	Not reported
Owner Name:	550 BRUSH LLC
Borough:	BX
Tax Block:	5610
Tax Lot:	16
Community District:	210
Census Tract 2020:	2009000
Census Block 2020:	20090002019
Census Tract 2010:	90
Census Block 2010:	2014
School District:	08
City Council District:	13
Fire Company:	E072
Police Precinct:	45
Health Center District:	26
Health Area:	3100
Sanitation District Boro:	2
Sanitation District Number:	10
Sanitation Subsection:	3D

LIBERTY MECHANICAL/CABLEVISION (Continued) **U001831844**

Zoning District 1:	M1-1: Manufacturing Districts
Zoning District 2:	Not reported
Zoning District 3:	Not reported
Zoning District 4:	Not reported
Commercial Overlay 1:	Not reported
Commercial Overlay 2:	Not reported
Special Purpose District 1:	Not reported
Special Purpose District 2:	Not reported
Special Purpose District 3:	Not reported
Limited Height District:	Not reported
Spill Boundary Indicator:	N
Building Class:	F1: FACTORY AND INDUSTRIAL BUILDINGS - Heavy Manufacturing - Fireproof
Land Use Category:	Industrial & Manufacturing
Number Of Easements:	0
Lot Area:	106300
Total Building Floor Area:	47800
Commercial Floor Area:	47800
Residential Floor Area:	0
Office Floor Area:	1800
Retail Floor Area:	0
Garage Floor Area:	0
Storage Floor Area:	0
Factory Floor Area:	46000
Other Floor Area:	0
Total Building Floor Area Source Code:	2
Number Of Buildings:	2
Number Of Floors:	1.0000000
Residential Units:	0
Total Units:	2
Lot Frontage:	530.0000000
Lot Depth:	275.3300000
Building Frontage:	200.3300000
Building Depth:	200.0000000
Extension Code:	N
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	3
Basement Type/Grade:	0
Assessed Land Value:	675000.00000
Assessed Total Value:	3496950.00000
Exempt Total Value:	0.00000
Year Built:	1962
Year Altered 1:	2015
Year Altered 2:	0
Historic District Name:	Not reported
Landmark Status:	Not reported
Built Floor Area Ratio:	0.45000000000
Maximum Allowable Residential Far:	0.00000000000
Maximum Allowable Commercial Far:	1.00000000000
Maximum Allowable Community Facility Far:	2.40000000000
Boro Code:	2
Borough, Tax Block and Lot:	2056100016.00000000
Condominium Number:	Not reported
Census Tract 2:	0090
X Coordinate:	1029074
Y Coordinate:	237217
Zoning Map #:	7a

LIBERTY MECHANICAL/CABLEVISION (Continued) **U001831844**

Zoning Map Code:	Not reported
Sanborn Map #:	221 040
Tax Map #:	21809
E-designation Number:	Not reported
Apportionment BBL:	Not reported
Apportionment Date:	Not reported
Pluto ??? Dtm Base Map Indicator:	1
2007 Flood Insurance Rate Map Indicator:	1
2015 Preliminary Flood Insurance Rate Map Indicator:	1
Version Number:	24v1.1
Changed By DCP:	Not reported

25
North
< 1/8
0.121 mi.
639 ft.

FERRY POINT PARK GOLF COURSE **NY AST** **A100366170**
700 HUTCHINSON RIVER PARKWAY **N/A**
BRONX, NY 10465

Relative:
Lower

Actual:
14 ft.

AST:

Name:	FERRY POINT PARK GOLF COURSE
Address:	700 HUTCHINSON RIVER PARKWAY
City,State,Zip:	BRONX, NY 10465
Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-611992
Program Type:	PBS
UTM X:	598188.19739
UTM Y:	4519209.71831
Expiration Date:	02/15/2023
Site Type:	Other

Affiliation Records:

Site Id:	480083
Affiliation Type:	Facility Owner
Company Name:	CITY OF NEW YORK, PARKS AND RECREATION
Contact Type:	GENERAL MANAGER
Contact Name:	BRIAN A. CROWEK
Address1:	830 FIFTH AVENUE
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10021
Country Code:	001
Phone:	(212) 410-8916
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2023-01-17

Site Id:	480083
Affiliation Type:	Mail Contact
Company Name:	CITY OF NEW YORK, PARKS & RECREATION
Contact Type:	Not reported
Contact Name:	CYNTHIA LOPEZ
Address1:	CITYWIDE SERVICES COMPLEX
Address2:	20 BRONX SHORE ROAD - RANDALLS ISLAND
City:	NEW YORK

FERRY POINT PARK GOLF COURSE (Continued) **A100366170**

State:	NY
Zip Code:	10035
Country Code:	001
Phone:	(212) 410-8935
EMail:	CYNTHIA.LOPEZ@PARKS.NYC.GOV
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2023-01-17

Site Id:	480083
Affiliation Type:	Emergency Contact
Company Name:	CITY OF NEW YORK, PARKS AND RECREATION
Contact Type:	Not reported
Contact Name:	CYNTHIA LOPEZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(212) 410-8935
EMail:	Not reported
Fax Number:	Not reported
Modified By:	ACDANIEL
Date Last Modified:	2023-01-13

Site Id:	480083
Affiliation Type:	Facility Operator
Company Name:	FERRY POINT GOLF COURSE
Contact Type:	GENERAL MANAGER
Contact Name:	BRIAN CROWELL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NY
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 414-1560
EMail:	Not reported
Fax Number:	Not reported
Modified By:	ACDANIEL
Date Last Modified:	2023-01-13

Tank Info:

Tank Number:	001
Tank Id:	247593
Material Code:	2712
Common Name of Substance:	Gasoline/Ethanol

Equipment Records:

G01 - Tank Secondary Containment - Diking (Aboveground)
J06 - Dispenser - Tank Mounted Dispenser
F00 - Pipe External Protection - None
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin

FERRY POINT PARK GOLF COURSE (Continued) **A100366170**

L09 - Piping Leak Detection - Exempt Suction Piping
E00 - Piping Secondary Containment - None
C01 - Pipe Location - Aboveground
G12 - Tank Secondary Containment - Double-Walled (AG only)
I03 - Overfill - Automatic Shut-Off
D01 - Pipe Type - Steel/Carbon Steel/Iron
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel Tank in Concrete
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	02/15/2013
Capacity Gallons:	1000
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	JSMACRI
Last Modified:	01/17/2023
Material Name:	gasoline/ethanol

Tank Number:	002
Tank Id:	247594
Material Code:	0008
Common Name of Substance:	Diesel

Equipment Records:

F00 - Pipe External Protection - None
J06 - Dispenser - Tank Mounted Dispenser
E00 - Piping Secondary Containment - None
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
G12 - Tank Secondary Containment - Double-Walled (AG only)
C01 - Pipe Location - Aboveground
G01 - Tank Secondary Containment - Diking (Aboveground)
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I01 - Overfill - Float Vent Valve
I03 - Overfill - Automatic Shut-Off

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel Tank in Concrete
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	02/15/2013
Capacity Gallons:	1000
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported

FERRY POINT PARK GOLF COURSE (Continued) **A100366170**

Register:	True
Modified By:	JSMACRI
Last Modified:	01/17/2023
Material Name:	diesel

Tank Number:	003
Tank Id:	248286

Equipment Records:

J06 - Dispenser - Tank Mounted Dispenser
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
K01 - Spill Prevention - Catch Basin
E00 - Piping Secondary Containment - None
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
I04 - Overfill - Product Level Gauge (A/G)
G10 - Tank Secondary Containment - Impervious Underlayment
A00 - Tank Internal Protection - None

Tank Location:	Aboveground - contact with impervious barrier... Tank bottom rests on impervious barrier, allowing visual indication of leaks.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	07/31/2012
Capacity Gallons:	500
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	02/15/2013
Register:	True
Modified By:	JSMACRI
Last Modified:	01/17/2023
Material Name:	diesel

Tank Number:	004
Tank Id:	248287

Equipment Records:

D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
J06 - Dispenser - Tank Mounted Dispenser
A00 - Tank Internal Protection - None
G10 - Tank Secondary Containment - Impervious Underlayment
E00 - Piping Secondary Containment - None
K01 - Spill Prevention - Catch Basin

Tank Location:	Aboveground - contact with impervious barrier... Tank bottom rests on impervious barrier, allowing visual indication of leaks.
Tank Type:	Steel/Carbon Steel/Iron

FERRY POINT PARK GOLF COURSE (Continued) **A100366170**

Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	04/11/2013
Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	#4 fuel oil (resale/redistribute)

Tank Number:	005
Tank Id:	248288

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
J06 - Dispenser - Tank Mounted Dispenser
E00 - Piping Secondary Containment - None
K01 - Spill Prevention - Catch Basin
A00 - Tank Internal Protection - None
G10 - Tank Secondary Containment - Impervious Underlayment

Tank Location:	Aboveground - contact with impervious barrier... Tank bottom rests on impervious barrier, allowing visual indication of leaks.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	04/11/2013
Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	#2 fuel oil (resale/redistribute)

Tank Number:	006
Tank Id:	248289

Equipment Records:

K01 - Spill Prevention - Catch Basin
E00 - Piping Secondary Containment - None
I04 - Overfill - Product Level Gauge (A/G)
J06 - Dispenser - Tank Mounted Dispenser
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

FERRY POINT PARK GOLF COURSE (Continued) **A100366170**

H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
G10 - Tank Secondary Containment - Impervious Underlayment
A00 - Tank Internal Protection - None

Tank Location:	Aboveground - contact with impervious barrier... Tank bottom rests on impervious barrier, allowing visual indication of leaks.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	04/11/2013
Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	gasoline

E26
East
1/8-1/4
0.129 mi.
679 ft.

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE
1 HUTCHINSON RIVER PKWY
BRONX, NY 10465

RCRA-LQG **1000141522**
E MANIFEST **NYD982796377**
PA MANIFEST
NJ MANIFEST

Site 3 of 3 in cluster E

Relative:
Higher

Actual:
36 ft.

RCRA Listings:

Date Form Received by Agency:	20180219
Handler Name:	Mta Bridge Bin 55211229 - Bronx Whitestone Bridge
Handler Address:	Hutchinson River Pkwy
Handler City,State,Zip:	BRONX, NY 10465-1857
EPA ID:	NYD982796377
Contact Name:	PASHKO R CAMAJ
Contact Address:	ROBERT MOSES BLDG RM 115D
Contact City,State,Zip:	NEW YORK, NY 10035
Contact Telephone:	212-360-3073
Contact Fax:	315-454-4467
Contact Email:	PCAMAJ@MTABT.ORG
Contact Title:	SR. DIRECTOR, S&H
EPA Region:	02
Land Type:	State
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ny
State District:	NYSDEC R2
Mailing Address:	ROBERT MOSES BLDG RM 115D
Mailing City,State,Zip:	NEW YORK, NY 10035
Owner Name:	Mta-Bridges And Tunnels
Owner Type:	State
Operator Name:	Mta Bridges And Tunnels
Operator Type:	State
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220406
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years

Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2011

Click Here for Biennial Reporting System Data:
Year: 2009

Click Here for Biennial Reporting System Data:
Year: 2005

Click Here for Biennial Reporting System Data:
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	Ignitable Waste
Waste Code:	D002
Waste Description:	Corrosive Waste
Waste Code:	D008
Waste Description:	Lead
Waste Code:	D018
Waste Description:	Benzene
Waste Code:	X001
Waste Description:	Not Defined

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: MTA BRIDGES & TUNNELS	
Legal Status:	State
Date Became Current:	19390429
Date Ended Current:	Not reported
Owner/Operator Address:	ROBERT MOSES BUILDING
Owner/Operator City,State,Zip:	NEW YORK, NY 10035-5199
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: MTA BRIDGES & TUNNELS	
Legal Status:	State
Date Became Current:	19500525
Date Ended Current:	Not reported
Owner/Operator Address:	2 BROADWAY-23RD FLOOR
Owner/Operator City,State,Zip:	NEW YORK, NY 10004
Owner/Operator Telephone:	646-252-7046
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: TRIBOROUGH BRIDGE & TUNNEL AUTH (TBTA)	
Legal Status:	State
Date Became Current:	19500525
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MTA BRIDGES & TUNNELS
Legal Status: State
Date Became Current: 19390429
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MTA-BRDIGES AND TUNNELS
Legal Status: State
Date Became Current: 19510101
Date Ended Current: Not reported
Owner/Operator Address: ROBERT MOSES BLDG, ROOM 115 D
Owner/Operator City,State,Zip: NEW YORK, NY 10035
Owner/Operator Telephone: 212-360-3073
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MTA BRIDGES & TUNNELS (TBTA)
Legal Status: State
Date Became Current: 19500525
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MTA BRIDGES & TUNNELS
Legal Status: State
Date Became Current: 19390429
Date Ended Current: Not reported
Owner/Operator Address: R MOSES BLG
Owner/Operator City,State,Zip: NEW YORK, NY 10035-5199
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MTA BRIDGES & TUNNELS
Legal Status: State
Date Became Current: 19390429
Date Ended Current: Not reported
Owner/Operator Address: R MOSES BLG

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Owner/Operator City,State,Zip:	NEW YORK, NY 10035-5199
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: MTA BRIDGES & TUNNELS	
Legal Status:	State
Date Became Current:	19390429
Date Ended Current:	Not reported
Owner/Operator Address:	R. MOSES BLG., RANDALL'S ISLAN
Owner/Operator City,State,Zip:	NEW YORK, NY 10035-5199
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: MTA BRIDGES & TUNNELS	
Legal Status:	State
Date Became Current:	19500525
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: TRIBORO BRG & TUN AUTH	
Legal Status:	State
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: MTA BRIDGES AND TUNNELS	
Legal Status:	State
Date Became Current:	19510101
Date Ended Current:	Not reported
Owner/Operator Address:	ROBERT MOSES BUILDING, ROOM 11
Owner/Operator City,State,Zip:	NEW YORK, NY 10035
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: MTA BRIDGES AND TUNNELS	
Legal Status:	State

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Date Became Current: 19510101
Date Ended Current: Not reported
Owner/Operator Address: ROBERT MOSES BLDG RM 11
Owner/Operator City,State,Zip: NEW YORK, NY 10035
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MTA BRIDGES & TUNNELS
Legal Status: State
Date Became Current: 19390429
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MTA-BRIDGES AND TUNNELS
Legal Status: State
Date Became Current: 19510101
Date Ended Current: Not reported
Owner/Operator Address: ROBERT MOSES BLDG RM 115 D
Owner/Operator City,State,Zip: NEW YORK, NY 10035
Owner/Operator Telephone: 212-360-3073
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20100309
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20120305
Handler Name: NYSDOT BRONX WHITESTONE BRIDGE BIN # 55211229
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20180213
Handler Name: NYSDOT BIN 55211229 - BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20060226
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20071210
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20180219
Handler Name: MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 19891004
Handler Name: TBTA - BRONX WHITESTONE BRIDGE

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20071211
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920220
Handler Name: BX-WHISTONE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940328
Handler Name: BRONX-WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19950327
Handler Name: BRONX-WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19980302
Handler Name: TBTA/BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20010101
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020314
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20040226
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Receive Date: 20060227
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 485999
NAICS Description: ALL OTHER TRANSIT AND GROUND PASSENGER TRANSPORTATION

NAICS Code: 48849
NAICS Description: OTHER SUPPORT ACTIVITIES FOR ROAD TRANSPORTATION

Has the Facility Received Notices of Violations:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19970721
Actual Return to Compliance Date: 19970828
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19970821
Enforcement Identifier: 000
Date of Enforcement Action: 19970721
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: NY
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYADS
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	19960916
Actual Return to Compliance Date:	19971030
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	19970219
Enforcement Identifier:	000
Date of Enforcement Action:	19970121
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R2MH
Enforcement Responsible Sub-Organization:	RCB
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20090311
Actual Return to Compliance Date: 20090428
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20090402
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYACY
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19970709
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	NYADS
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	19970828
Scheduled Compliance Date:	19970821
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19960916
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	R2MH
Evaluation Responsible Sub-Organization:	RCB
Actual Return to Compliance Date:	19971030
Scheduled Compliance Date:	19970219
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190702
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	NYSR
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20090311
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	NYACY
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	20090428
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

E MANIFEST:

Manifest Tracking Number:	015548666FLE
Last Updated Date:	20210813
Shipped Date:	20210709
Received Date:	20210709
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD982796377
Generator Name:	Triborough Br & Tunnel Auth Cont# Wbm-376
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	WBM-376 BRONX WHITESTONE BR
Generator Mail Street 2:	Not reported
Generator Mail City:	QUEENS
Generator Mail State:	NY
Generator Mail Zip:	10465-1857
Generator Location Street Number:	Not reported
Generator Location Street 1:	1 HUTCHINSON RIVER PKWY
Generator Location Street 2:	Not reported
Generator Location City:	BRONX
Generator Location Zip:	10465
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD991291105
Designated Facility Name:	Clean Earth Of North Jersey
Designated Facility Mail Street Number:	105
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	JACOBUS AVE
Designated Facility Mail City:	KEARNY
Designated Facility Mail Zip:	07032
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	105
Designated Facility Location Street 1:	JACOBUS AVE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	KEARNY
Designated Facility Location Zip:	07032
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	017582348FLE
Last Updated Date:	20220923
Shipped Date:	20220915
Received Date:	20220916
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD982796377
Generator Name:	Mta Bridge Bin 55211229 - Bronx Whitestone Bridge
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRONX WHITESTONE BR
Generator Mail Street 2:	Not reported
Generator Mail City:	QUEENS
Generator Mail State:	NY
Generator Mail Zip:	11357
Generator Location Street Number:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Generator Location Street 1:	R1 HUTCHINSON RIVER PKWY
Generator Location Street 2:	Not reported
Generator Location City:	BRONX
Generator Location Zip:	10465
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD991291105
Designated Facility Name:	Clean Earth Of North Jersey
Designated Facility Mail Street Number:	105
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	JACOBUS AVE
Designated Facility Mail City:	KEARNY
Designated Facility Mail Zip:	07032
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	105
Designated Facility Location Street 1:	JACOBUS AVE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	KEARNY
Designated Facility Location Zip:	07032
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Federal Waste:

Manifest Tracking Number:	017582348FLE
Waste Line Number:	1
Federal Waste Code:	D008
Federal Waste:	LEAD

Transporter:

Manifest Tracking Number:	017582348FLE
Transporter Line Number:	1
Transporter EPA ID:	NJR986628162
Transporter Name:	Iwt Transport, Inc.

Waste Line:

Manifest Tracking Number:	017582348FLE
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA3077
U.S. DOT Description:	Na3077, Hazardous Waste, Solid N.O.S., 9, Pg Iii, Rq
Non-Hazardous Waste Description:	Not reported
Number of Containers:	1
Container Type Code:	DM
Container Type Description:	Metal drums, barrels, kegs
Waste Quantity:	25
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.0125
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.0125
Waste Quantity, in Kilograms:	11.337875
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	11.337875
Management Method Code:	H110

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Management Method Description:	STABILIZATION
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

PA MANIFEST:

Name:	TBTA BRONX WHITESTONE BRIDGE
Address:	FERRY POINT PK
City,State,Zip:	BRONX, NY 10465
Year:	2005
Manifest Number:	PAH190052
Manifest Type:	T
Generator EPA ID:	NYD982796377
Generator Date:	05/02/2005
Mailing Address:	RANDALLS ISLAND
Contact Name:	MIKE LEOTE
Contact Phone:	212-360-2853
TSD EPA ID:	PAD085690592
TSD Date:	05/06/2005
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS
TSD Facility Address:	2869 SANDSTONE DR
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	9
Container Type:	DM
Waste Quantity:	6300
Unit:	P
Handling Code:	Not reported
TSP EPA ID:	PAD982661381
Date TSP Sig:	05/02/2005

Year:	2012
Manifest Number:	008770999JJK
Manifest Type:	T
Generator EPA ID:	NYD982796377
Generator Date:	03/01/2012
Mailing Address:	Not reported
Contact Name:	Not reported
Contact Phone:	212-360-2853
TSD EPA ID:	Not reported
TSD Date:	Not reported
TSD Facility Name:	Envirite of Pennsylvania Inc

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

TSD Facility Address:	730 Vogelsong Rd
TSD Facility City:	York
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	2
Container Type:	DM
Waste Quantity:	325
Unit:	P
Handling Code:	Not reported
TSP EPA ID:	PAD010154045
Date TSP Sig:	Not reported
Year:	2010
Manifest Number:	000390295JJK
Manifest Type:	T
Generator EPA ID:	NYD982796377
Generator Date:	12/06/2010
Mailing Address:	Not reported
Contact Name:	Not reported
Contact Phone:	212-360-2853
TSD EPA ID:	PAD010154045
TSD Date:	Not reported
TSD Facility Name:	ENVIRITE OF PENNSYLVANIA INC
TSD Facility Address:	730 VOGELSONG ROAD
TSD Facility City:	YORK
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	1
Container Type:	CM
Waste Quantity:	15
Unit:	Y
Handling Code:	Not reported
TSP EPA ID:	Not reported
Date TSP Sig:	Not reported
Year:	2010
Manifest Number:	003196917FLE
Manifest Type:	T
Generator EPA ID:	NYD982796377
Generator Date:	03/08/2010
Mailing Address:	Not reported
Contact Name:	Not reported
Contact Phone:	212-360-2853
TSD EPA ID:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Line Number:	1
Waste Number:	D008
Container Number:	1
Container Type:	DM
Waste Quantity:	20
Unit:	P
Handling Code:	Not reported
TSP EPA ID:	Not reported
Date TSP Sig:	Not reported

Year:	2011
Manifest Number:	007637374JJK
Manifest Type:	T
Generator EPA ID:	NYD982796377
Generator Date:	03/09/2011
Mailing Address:	Not reported
Contact Name:	Not reported
Contact Phone:	212-360-2853
TSD EPA ID:	PAD010154045
TSD Date:	Not reported
TSD Facility Name:	ENVIRITE OF PENNSYLVANIA INC
TSD Facility Address:	730 VOGELSONG ROAD
TSD Facility City:	YORK
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	5
Container Type:	DM
Waste Quantity:	1600
Unit:	P
Handling Code:	Not reported
TSP EPA ID:	Not reported
Date TSP Sig:	Not reported

Year:	2007
Manifest Number:	002131872JJK
Manifest Type:	Not reported
Generator EPA ID:	NYD982796377
Generator Date:	01/11/2007
Mailing Address:	Not reported
Contact Name:	MIKE LEOTE
Contact Phone:	212-360-2853
TSD EPA ID:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	1
Container Type:	DM
Waste Quantity:	100

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Unit:	P
Handling Code:	Not reported
TSP EPA ID:	Not reported
Date TSP Sig:	Not reported

Year:	2006
Manifest Number:	002124737JJK
Manifest Type:	T
Generator EPA ID:	NYD982796377
Generator Date:	11/20/2006
Mailing Address:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA ID:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	212-360-2853
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	20
Container Type:	DM
Waste Quantity:	16000
Unit:	P
Handling Code:	Not reported
TSP EPA ID:	Not reported
Date TSP Sig:	Not reported

Year:	2006
Manifest Number:	PAH290693
Manifest Type:	T
Generator EPA ID:	NYD982796377
Generator Date:	07/26/2006
Mailing Address:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA ID:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	212-360-2853
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	14
Container Type:	DM
Waste Quantity:	11200
Unit:	P
Handling Code:	Not reported
TSP EPA ID:	Not reported
Date TSP Sig:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

NJ MANIFEST:

EPA ID:	NYD982796377
Name:	TBTA-BRONX-WHITESTONE BRIDGE
Address:	FERRY POINT PARK
City,State,Zip:	BRONX, NY 10465
County:	Not reported
Mailing Address:	10 COLUMBUX CIR
Mailing City,State,Zip:	NEW YORK 10019
Telephone:	2124688454
Emergency Telephone:	Not reported
Contact:	Not reported
Comments:	Not reported
SIC Code:	Not reported
County:	00
Municipal:	00
Previous EPAID:	Not reported
Generator Flag:	X
Transporter Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	000000

Manifest Data:

EPA ID:	NYD982796377
Manifest Number:	000457153WAS
Date Shipped:	12/23/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	200.00
Unit:	Pounds

EPA ID:	NYD982796377
Manifest Number:	000201007WAS
Date Shipped:	11/11/2008
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	11/11/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	11/12/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	N
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Waste Code:	D008
Hand Code:	H111
Quantity:	23100
Unit:	P

EPA ID:	NYD982796377
Manifest Number:	000892223JJK
Date Shipped:	02/13/2009
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	02/13/2009
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	02/13/2009
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	N
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H141
Quantity:	15
Unit:	G

EPA ID:	NYD982796377
Manifest Number:	NJA5006929
Date Shipped:	03/03/2004

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	03/03/2004
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	03/03/2004
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	03300425
Was Load Rejected:	N
Reason Load Was Rejected:	Not reported

EPA ID:	NYD982796377
Manifest Number:	000198563WAS
Date Shipped:	07/31/2009
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	07/31/2009
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	07/31/2009
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	N
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	F003
Hand Code:	H061
Quantity:	385
Unit:	G

EPA ID:	NYD982796377
Manifest Number:	000201195WAS
Date Shipped:	03/04/2009
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	03/04/2009
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	03/04/2009
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	N
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	2700
Unit:	P

EPA ID:	NYD982796377
Manifest Number:	003536100JJK
Date Shipped:	06/05/2009
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	06/05/2009
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	06/05/2009
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Data Entry Number:	Not reported
Was Load Rejected:	N
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H061
Quantity:	55
Unit:	G

EPA ID:	NYD982796377
Manifest Number:	000196516WAS
Date Shipped:	10/02/2008
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	10/02/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	10/03/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	N
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	F003
Hand Code:	H061
Quantity:	275

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Unit:	G
EPA ID:	NYD982796377
Manifest Number:	009406226FLE
Date Shipped:	1/13/2017
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJR986628162
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported
EPA ID:	NYD982796377
Manifest Number:	009406257FLE
Date Shipped:	1/27/2017
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJR986628162
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

EPA ID:	NYD982796377
Manifest Number:	000422445WAS
Date Shipped:	8/23/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	200.00
Unit:	Pounds

Click this hyperlink while viewing on your computer to access
23 additional NJ MANIFEST: record(s) in the EDR Site Report.

F27 **545 BRUSH AVE/BX/U.P.S** **NY LTANKS** **S100145768**
NNW **545 BRUSH AVENUE** **N/A**
1/8-1/4 **NEW YORK CITY, NY**
0.131 mi.
694 ft. **Site 2 of 9 in cluster F**

Relative:
Lower

Actual:
5 ft.

LTANKS:

Name:	545 BRUSH AVE/BX/U.P.S
Address:	545 BRUSH AVENUE
City,State,Zip:	NEW YORK CITY, NY
Spill Number/Closed Date:	8909242 / 2003-02-27
Facility ID:	8909242
Site ID:	138397
Spill Date:	1989-12-20
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	TOMASELLO
Referred To:	Not reported
Reported to Dept:	1989-12-20
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1990-01-24
Spill Record Last Update:	2004-02-09
Spiller Name:	Not reported
Spiller Company:	Not reported

545 BRUSH AVE/BX/U.P.S (Continued) **S100145768**

Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	118343
DEC Memo:	Not reported
Remarks:	1K TANK FAILED TANK AUDITOR WITH LEAK RATE OF -0.971GPH, OWNER WILL ACCESS SITUATION, TANK MAY HAVE TO BE PULLED.

All TTF:

Facility ID:	8909242
Spill Number:	8909242
Spill Tank Test:	1536600
Site ID:	138397
Tank Number:	Not reported
Tank Size:	0
Material:	0001
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	138397
Operable Unit ID:	936424
Operable Unit:	01
Material ID:	442414
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

28
SSW
1/8-1/4
0.138 mi.
728 ft.

FERRY POINT PARK **NY SWF/LF** **S126022942**
10 HUTCHINSON ROVER PKWY, PENINSULA PROJECTING INTO THE EAST **NY ILI** **N/A**
BRONX, NY

Relative:
Lower

Actual:
12 ft.

SWF/LF:

Name:	FERRY POINT PARK
Address:	10 HUTCHINSON ROVER PKWY, PENINSULA PROJECTING INTO THE EAST RIVER ROUGHLY OPPOSITE TH
City,State,Zip:	BRONX, NY
Flag:	INACTIVE
Region Code:	2

FERRY POINT PARK (Continued) **S126022942**

Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	MSW
Activity Number:	Not reported
Active:	Not reported
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

ILI:

Name:	FERRY POINT PARK
Address:	10 HUTCHINSON ROVER PKWY, PENINSULA PROJECTING INTO THE EAST RIVER ROUGHLY OPPOSITE THE COLLEGE POINT AND MALBA NEIGHBORHOODS OF QUEEN
City,State,Zip:	BRONX, NY
Latitude:	40.809072
Longitude:	-73.837238
Region:	2
SWID:	03S01
NY Inactive List:	Not reported
Inactive Reg Number:	Not reported
Alternative Facility Names:	Not reported
Removed:	Not reported
Why Removed:	Not reported
Location Accuracy:	Not reported
Date Of Last Inspection:	15-Aug-18
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Authorization:	Not reported
Number:	Not reported
Issue Date:	Not reported

FERRY POINT PARK (Continued) **S126022942**

Expiration Date:	Not reported
Start Date:	1945
Stop Date:	1965
Landfill Type:	MSW

F29 NNW 1/8-1/4 0.148 mi. 779 ft.

UNITED PARCEL SERVICE
BRUSH AVE
BRONX, NY 10465

Site 3 of 9 in cluster F

RCRA-SQG **1000398442**
NY CBS AST **NYD986900728**
E MANIFEST
NY MANIFEST
NJ MANIFEST

Relative: Lower

Actual: 5 ft.

RCRA Listings:

Date Form Received by Agency:	20221221
Handler Name:	United Parcel Service - Brush Avenue (Nybru)
Handler Address:	Brush Ave
Handler City,State,Zip:	BRONX, NY 10465
EPA ID:	NYD986900728
Contact Name:	MILLER PONTON
Contact Address:	OAK ST
Contact City,State,Zip:	UNIONDALE, NY 11553
Contact Telephone:	631-316-3854
Contact Fax:	Not reported
Contact Email:	MPONTON@UPS.COM
Contact Title:	CORPORATE ENVIRONMENTAL COORDINATOR
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ny
State District:	NYSDEC R2
Mailing Address:	OAK ST
Mailing City,State,Zip:	UNIONDALE, NY 11553
Owner Name:	535 Brush Avenue Llc
Owner Type:	Private
Operator Name:	United Parcel Service
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline

UNITED PARCEL SERVICE (Continued) **1000398442**

202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20221223
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste
Waste Code:	D002
Waste Description:	Corrosive Waste
Waste Code:	D003
Waste Description:	Reactive Waste
Waste Code:	D007
Waste Description:	Chromium
Waste Code:	D011
Waste Description:	Silver
Waste Code:	D018
Waste Description:	Benzene
Waste Code:	D019
Waste Description:	Carbon Tetrachloride
Waste Code:	D021
Waste Description:	Chlorobenzene
Waste Code:	D026
Waste Description:	Cresol
Waste Code:	D028
Waste Description:	1,2-Dichloroethane
Waste Code:	D035
Waste Description:	Methyl Ethyl Ketone

UNITED PARCEL SERVICE (Continued) **1000398442**

Waste Code: D039
Waste Description: Tetrachloroethylene

Waste Code: NONE
Waste Description: Not Defined

Waste Code: P075
Waste Description: Nicotine, & Salts (Or) Pyridine, 3-(1-Methyl-2-Pyrrolidinyl)-,(S)-, & Salts

Waste Code: U080
Waste Description: Methane, Dichloro- (Or) Methylene Chloride

Waste Code: U112
Waste Description: Acetic Acid, Ethyl Ester (I) (Or) Ethyl Acetate (I)

Waste Code: U122
Waste Description: Formaldehyde

Waste Code: U134
Waste Description: Hydrofluoric Acid (C,T) (Or) Hydrogen Fluoride (C,T)

Waste Code: U154
Waste Description: Methanol (I) (Or) Methyl Alcohol (I)

Waste Code: U162
Waste Description: 2-Propenoic Acid, 2-Methyl-, Methyl Ester (I,T) (Or) Methyl Methacrylate (I,T)

Waste Code: U213
Waste Description: Furan, Tetrahydro-(I) (Or) Tetrahydrofuran (I)

Waste Code: U220
Waste Description: Benzene, Methyl- (Or) Toluene

Waste Code: U239
Waste Description: Benzene, Dimethyl- (I,T) (Or) Xylene (I)

Waste Code: U240
Waste Description: 2,4-D, Salts & Esters (Or) Acetic Acid, (2,4-Dichlorophenoxy)-, Salts & Esters (Or) Dichlorophenoxyacetic Acid 2,4-D

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: EMANUL CIMINELLO JR
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, WY 99999
Owner/Operator Telephone: 212-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: EMANUL CIMINELLO JR

UNITED PARCEL SERVICE (Continued) **1000398442**

Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: UNITED PARCEL SERVICE	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	55 GLENLAKE PKWY NE
Owner/Operator City,State,Zip:	ATLANTA, GA 30328
Owner/Operator Telephone:	551-255-6818
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	CEGOMEZ@UPS.COM

Owner/Operator Indicator:	Operator
Owner/Operator Name: UNITED PARCEL SERVICE	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	55 GLENLAKE PKWY NE
Owner/Operator City,State,Zip:	ATLANTA, GA 30328
Owner/Operator Telephone:	631-316-3854
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	MPONTON@UPS.COM

Owner/Operator Indicator:	Operator
Owner/Operator Name: EMANUL CIMINELLO JR	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: 535 BRUSH AVENUE LLC	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1208 WYATT STREET
Owner/Operator City,State,Zip:	BRONX, NY 10460
Owner/Operator Telephone:	718-828-7272
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Owner/Operator Indicator: Owner
Owner/Operator Name: 535 BRUSH AVENUE LLC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1208 WYATT ST
Owner/Operator City,State,Zip: BRONX, NY 10460
Owner/Operator Telephone: 718-828-7272
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19950418
Handler Name: UNITED PARCEL SERVICE
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060101
Handler Name: UNITED PARCEL SERVICE
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: UNITED PARCEL SERVICE
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19900517
Handler Name: UNITED PARCEL SERVICE
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No

UNITED PARCEL SERVICE (Continued) **1000398442**

Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20220324
Handler Name:	UNITED PARCEL SERVICE - BRUSH AVENUE (NYBRU)
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

Receive Date:	20221221
Handler Name:	UNITED PARCEL SERVICE - BRUSH AVENUE (NYBRU)
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	492110
NAICS Description:	COURIERS AND EXPRESS DELIVERY SERVICES

Has the Facility Received Notices of Violations:

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20220215
Actual Return to Compliance Date:	20221019
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	999
Date of Enforcement Action:	20220928
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	06-2022-0942
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:67
Consent/Final Order Respondent Name: Ups
Consent/Final Order Lead Agency: 0
Enforcement Type: MULTI SITE CA/FO
Enforcement Responsible Person: CAFO
Enforcement Responsible Sub-Organization: R06
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 20220215
Actual Return to Compliance Date: 20221019
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 999
Date of Enforcement Action: 20220928
Enforcement Responsible Agency: EPA
Enforcement Docket Number: 06-2022-0942
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:67
Consent/Final Order Respondent Name: Ups
Consent/Final Order Lead Agency: 0
Enforcement Type: MULTI SITE CA/FO
Enforcement Responsible Person: CAFO
Enforcement Responsible Sub-Organization: R06
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	20220215
Actual Return to Compliance Date:	20221019
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	999
Date of Enforcement Action:	20220928
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	06-2022-0942
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	67
Consent/Final Order Respondent Name:	Ups
Consent/Final Order Lead Agency:	0
Enforcement Type:	MULTI SITE CA/FO
Enforcement Responsible Person:	CAFO
Enforcement Responsible Sub-Organization:	R06
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	20220215
Actual Return to Compliance Date:	20221019
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	999
Date of Enforcement Action:	20220928
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	06-2022-0942
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:67
Consent/Final Order Respondent Name: Ups
Consent/Final Order Lead Agency: 0
Enforcement Type: MULTI SITE CA/FO
Enforcement Responsible Person: CAFO
Enforcement Responsible Sub-Organization: R06
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19930302
Actual Return to Compliance Date: 19930524
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19930526
Enforcement Identifier: 000
Date of Enforcement Action: 19930511
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: NY
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYADS
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19930302
Actual Return to Compliance Date:	19930524
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	000
Date of Enforcement Action:	19930302
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	NY
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	NYADS
Enforcement Responsible Sub-Organization:	R2
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - Records/Reporting
Date Violation was Determined: 20220215
Actual Return to Compliance Date: 20221019
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 999
Date of Enforcement Action: 20220928
Enforcement Responsible Agency: EPA
Enforcement Docket Number: 06-2022-0942
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:67
Consent/Final Order Respondent Name: Ups
Consent/Final Order Lead Agency: 0
Enforcement Type: MULTI SITE CA/FO
Enforcement Responsible Person: CAFO
Enforcement Responsible Sub-Organization: R06
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	20220115
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	CAFO
Evaluation Responsible Sub-Organization:	R06
Actual Return to Compliance Date:	20221019
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20220115
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	CAFO
Evaluation Responsible Sub-Organization:	R06
Actual Return to Compliance Date:	20221019
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20220115
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	CAFO
Evaluation Responsible Sub-Organization:	R06
Actual Return to Compliance Date:	20221019
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20220115
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	CAFO
Evaluation Responsible Sub-Organization:	R06
Actual Return to Compliance Date:	20221019
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930105
Evaluation Responsible Agency:	State

UNITED PARCEL SERVICE (Continued) **1000398442**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	NYADS
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	19930524
Scheduled Compliance Date:	19930526
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930105
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	NYADS
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	19930524
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20100615
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	NYACY
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20220115
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	CAFO
Evaluation Responsible Sub-Organization:	R06
Actual Return to Compliance Date:	20221019
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CBS AST:

CBS Number:	2-000341
ICS Number:	Not reported
PBS Number:	2-601299
MOSF Number:	Not reported
SPDES Number:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Facility Status:	IN SERVICE
Facility Type:	I
Telephone:	(718) 828-8014
Facility Town:	NEW YORK CITY
Region:	STATE
Expiration Date:	03/11/2004
Total Capacity of All Active Tanks(gal):	400
Operator:	MARK MERCHANT
Emergency Contact:	PAUL VETRANO
Emergency Phone:	(718) 706-3121
Owner Name:	UNITED PARCEL SERVICE
Owner Address:	46-05 56 ROAD
Owner City,St,Zip:	MASPETH, NY 11378
Owner Telephone:	(718) 706-3105
Owner Type:	Corporate/Commercial
Owner Sub Type:	Not reported
Mail Name:	UNITED PARCEL SERVICE
Mail Contact Addr:	46-05 56 ROAD
Mail Contact Addr2:	Not reported
Mail Contact Contact:	PLANT ENGINEERING
Mail Contact City,St,Zip:	MASPETH, NY 11378
Mail Phone:	(718) 706-3105

Tank Id:	005D
CAS Number:	107211
Federal ID:	Not reported
Tank Status:	In Service
Install Date:	09/95
Tank Closed:	Not reported
Capacity (Gal):	200
Chemical:	Ethylene glycol
Tank Location:	Indoors, Belowground
Tank Type:	Steel/carbon steel
Total Tanks:	2
Tank Secret:	False
Tank Secondary Containment:	None
Tank Error Status:	No Missing Data
Date Entered:	03/10/1998
Certified Date:	12/20/2001
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	None,Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	00
Pipe Flag:	00
Leak Detection:	00
Overfill Protection:	04
Haz Percent:	50
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	Not reported
Is It There:	False

UNITED PARCEL SERVICE (Continued) **1000398442**

Delinquent:	False
Date Expired:	Not reported
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	11/27/2001

Tank Id:	005C
CAS Number:	107211
Federal ID:	Not reported
Tank Status:	In Service
Install Date:	09/95
Tank Closed:	Not reported
Capacity (Gal):	200
Chemical:	Ethylene glycol
Tank Location:	Indoors, Belowground
Tank Type:	Steel/carbon steel
Total Tanks:	2
Tank Secret:	False
Tank Secondary Containment:	None
Tank Error Status:	No Missing Data
Date Entered:	03/10/1998
Certified Date:	12/20/2001
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	None,Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	00
Pipe Flag:	00
Leak Detection:	00
Overfill Protection:	04
Haz Percent:	50
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	Not reported
Is It There:	False
Delinquent:	False
Date Expired:	Not reported
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	11/27/2001

E MANIFEST:

Manifest Tracking Number:	001211496VES
Last Updated Date:	20190228
Shipped Date:	20190219
Received Date:	20190220
Manifest Status:	Signed

UNITED PARCEL SERVICE (Continued) **1000398442**

Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	1 EDEN LANE
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	1 EDEN LANE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001892719VES
Last Updated Date:	20230103
Shipped Date:	20221213
Received Date:	20221216
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	1 EDEN LANE
Designated Facility Mail Street 2:	L.L.C.
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	L.L.C.
Designated Facility Location Street 2:	1 EDEN LANE
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	002070694VES
Last Updated Date:	20220103
Shipped Date:	20211208
Received Date:	20211210
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	1 EDEN LANE
Designated Facility Mail Street 2:	L.L.C.
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	L.L.C.
Designated Facility Location Street 2:	1 EDEN LANE
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS
Manifest Residue Indicator:	N
Rejection Indicator:	N

UNITED PARCEL SERVICE (Continued) **1000398442**

Manifest Tracking Number:	001301805VES
Last Updated Date:	20190627
Shipped Date:	20190617
Received Date:	20190619
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	1 EDEN LANE
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	1 EDEN LANE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001307667VES
Last Updated Date:	20210623
Shipped Date:	20210617
Received Date:	20210617
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE

UNITED PARCEL SERVICE (Continued) **1000398442**

Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	1 EDEN LANE
Designated Facility Mail Street 2:	L.L.C.
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	L.L.C.
Designated Facility Location Street 2:	1 EDEN LANE
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001670332VES
Last Updated Date:	20200316
Shipped Date:	20200303
Received Date:	20200304
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	EDEN LANE
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	EDEN LANE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	FLANDERS

UNITED PARCEL SERVICE (Continued) **1000398442**

Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001670443VES
Last Updated Date:	20200613
Shipped Date:	20200601
Received Date:	20200605
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	EDEN LANE
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	EDEN LANE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001672071VES
Last Updated Date:	20210106
Shipped Date:	20201210
Received Date:	20201214
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE

UNITED PARCEL SERVICE (Continued) **1000398442**

Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	1 EDEN LANE
Designated Facility Mail Street 2:	L.L.C.
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	L.L.C.
Designated Facility Location Street 2:	1 EDEN LANE
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001672227VES
Last Updated Date:	20210409
Shipped Date:	20210325
Received Date:	20210331
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	1 EDEN LANE
Designated Facility Mail Street 2:	L.L.C.
Designated Facility Mail City:	FLANDERS

UNITED PARCEL SERVICE (Continued) **1000398442**

Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	L.L.C.
Designated Facility Location Street 2:	1 EDEN LANE
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001676379VES
Last Updated Date:	20200925
Shipped Date:	20200921
Received Date:	20200923
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	EDEN LANE
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	EDEN LANE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001982310VES
Last Updated Date:	20220624
Shipped Date:	20220620
Received Date:	20220620
Manifest Status:	Signed

UNITED PARCEL SERVICE (Continued) **1000398442**

Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	1 EDEN LANE
Designated Facility Mail Street 2:	L.L.C.
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	L.L.C.
Designated Facility Location Street 2:	1 EDEN LANE
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS
Manifest Residue Indicator:	N
Rejection Indicator:	N

Federal Waste:

Manifest Tracking Number:	001219427VES
Waste Line Number:	1
Federal Waste Code:	D001
Federal Waste:	IGNITABLE WASTE

Manifest Tracking Number:	001219427VES
Waste Line Number:	1
Federal Waste Code:	D018
Federal Waste:	BENZENE

Manifest Tracking Number:	001219427VES
Waste Line Number:	1
Federal Waste Code:	D019
Federal Waste:	CARBON TETRACHLORIDE

Manifest Tracking Number:	001219427VES
Waste Line Number:	1
Federal Waste Code:	D021
Federal Waste:	CHLOROBENZENE

Manifest Tracking Number:	001219427VES

UNITED PARCEL SERVICE (Continued) **1000398442**

Waste Line Number: 1
Federal Waste Code: D028
Federal Waste: 1,2-DICHLOROETHANE

Manifest Tracking Number: 001219427VES
Waste Line Number: 1
Federal Waste Code: D029
Federal Waste: 1,1-DICHLOROETHYLENE

Manifest Tracking Number: 001219427VES
Waste Line Number: 1
Federal Waste Code: D035
Federal Waste: METHYL ETHYL KETONE

Manifest Tracking Number: 001219427VES
Waste Line Number: 1
Federal Waste Code: D039
Federal Waste: TETRACHLOROETHYLENE

Manifest Tracking Number: 001219427VES
Waste Line Number: 1
Federal Waste Code: D040
Federal Waste: TRICHLORETHYLENE

Manifest Tracking Number: 001219427VES
Waste Line Number: 2
Federal Waste Code: D001
Federal Waste: IGNITABLE WASTE

Manifest Tracking Number: 001219427VES
Waste Line Number: 2
Federal Waste Code: U154
Federal Waste: METHANOL (I) (OR) METHYL ALCOHOL (I)

Manifest Tracking Number: 001219427VES
Waste Line Number: 3
Federal Waste Code: D001
Federal Waste: IGNITABLE WASTE

Manifest Tracking Number: 001219427VES
Waste Line Number: 3
Federal Waste Code: D018
Federal Waste: BENZENE

Manifest Tracking Number: 001219427VES
Waste Line Number: 4
Federal Waste Code: D001
Federal Waste: IGNITABLE WASTE

State Waste:
Manifest Tracking Number: 001219427VES
Waste Line Number: 1
State Waste Code Owner: NY
State Waste Code: B
State Waste: Incineration, heat recovery, burning. Waste management method code to be used on e-Manifest only

UNITED PARCEL SERVICE (Continued) **1000398442**

Manifest Tracking Number: 001219427VES
Waste Line Number: 2
State Waste Code Owner: NY
State Waste Code: B
State Waste: Incineration, heat recovery, burning. Waste management method code to be used on e-Manifest only

Manifest Tracking Number: 001219427VES
Waste Line Number: 3
State Waste Code Owner: NY
State Waste Code: B
State Waste: Incineration, heat recovery, burning. Waste management method code to be used on e-Manifest only

Manifest Tracking Number: 001219427VES
Waste Line Number: 4
State Waste Code Owner: NY
State Waste Code: B
State Waste: Incineration, heat recovery, burning. Waste management method code to be used on e-Manifest only

Transporter:
Manifest Tracking Number: 001219427VES
Transporter Line Number: 1
Transporter EPA ID: NJD080631369
Transporter Name: Veolia Es Technical Solutions

Waste Line:
Manifest Tracking Number: 001219427VES
Waste Line Number: 1
U.S. DOT Hazardous Indicator: Y
U.S. DOT ID Number: UN1950
U.S. DOT Description: Un1950, Waste Aerosols, Flammable,(Each Not Exceeding 1l Capacity), 2.1, Rq (D001), Limited Quantity
Non-Hazardous Waste Description: Not reported
Number of Containers: 1
Container Type Code: DM
Container Type Description: Metal drums, barrels, kegs
Waste Quantity: 140
Quantity Unit of Measure Code: P
Quantity Unit of Measure Description: Pounds
Waste Quantity, in Tons: 0.07
Acute Waste Quantity, in Tons: 0
Non-Acute Waste Quantity, in Tons: 0.07
Waste Quantity, in Kilograms: 63.492104
Acute Waste Quantity, in Kilograms: 0
Non-Acute Waste Quantity, in Kilorgrams: 63.492104
Management Method Code: H141
Management Method Description: STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator: N
Quantity Discrepancy Indicator: N
Waste Type Discrepancy Indicator: N
Waste Density: Not reported
Waste Density Unit of Measure Code: Not reported
Waste Density Unit of Measure Description: Not reported
Form Code: Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Form Code Description: Not reported
Source Code: Not reported
Source Code Description: Not reported
Waste Minimization Code: Not reported
Waste Minimization Code Description: Not reported
Consent Number: Not reported
EPA Waste Indicator: Y

Manifest Tracking Number: 001219427VES
Waste Line Number: 2
U.S. DOT Hazardous Indicator: Y
U.S. DOT ID Number: UN1993
U.S. DOT Description: Un1993, Waste Flammable Liquids, N.O.S., (Methanol), 3, Ii
Non-Hazardous Waste Description: Not reported
Number of Containers: 1
Container Type Code: DM
Container Type Description: Metal drums, barrels, kegs
Waste Quantity: 120
Quantity Unit of Measure Code: P
Quantity Unit of Measure Description: Pounds
Waste Quantity, in Tons: 0.06
Acute Waste Quantity, in Tons: 0
Non-Acute Waste Quantity, in Tons: 0.06
Waste Quantity, in Kilograms: 54.4218
Acute Waste Quantity, in Kilograms: 0
Non-Acute Waste Quantity, in Kilorgrams: 54.4218
Management Method Code: H141
Management Method Description: STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator: N
Quantity Discrepancy Indicator: N
Waste Type Discrepancy Indicator: N
Waste Density: Not reported
Waste Density Unit of Measure Code: Not reported
Waste Density Unit of Measure Description: Not reported
Form Code: Not reported
Form Code Description: Not reported
Source Code: Not reported
Source Code Description: Not reported
Waste Minimization Code: Not reported
Waste Minimization Code Description: Not reported
Consent Number: Not reported
EPA Waste Indicator: Y

Manifest Tracking Number: 001219427VES
Waste Line Number: 3
U.S. DOT Hazardous Indicator: Y
U.S. DOT ID Number: UN1203
U.S. DOT Description: Un1203, Waste Gasoline Mixture, 3, Ii, Rq (D001, D018)
Non-Hazardous Waste Description: Not reported
Number of Containers: 1
Container Type Code: DM
Container Type Description: Metal drums, barrels, kegs
Waste Quantity: 290
Quantity Unit of Measure Code: P
Quantity Unit of Measure Description: Pounds
Waste Quantity, in Tons: 0.145
Acute Waste Quantity, in Tons: 0

UNITED PARCEL SERVICE (Continued) **1000398442**

Non-Acute Waste Quantity, in Tons:	0.145
Waste Quantity, in Kilograms:	131.51935
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	131.51935
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

Manifest Tracking Number:	001219427VES
Waste Line Number:	4
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	UN1479
U.S. DOT Description:	Un1479, Waste Oxidizing Solid, N.O.S., (Hydrogen Peroxide, Water), 5.1, Ii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	1
Container Type Code:	DM
Container Type Description:	Metal drums, barrels, kegs
Waste Quantity:	57
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.0285
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.0285
Waste Quantity, in Kilograms:	25.850355
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	25.850355
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

UNITED PARCEL SERVICE (Continued) **1000398442**

Click this hyperlink while viewing on your computer to access
2 additional US EManifest: record(s) in the EDR Site Report.

NY MANIFEST:

EPA ID:	NYD986900728
Country:	USA
Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVE
Address 2:	Not reported
City,State,Zip:	BRONX, NY 10465
Zip 4:	Not reported
Location Address 1:	545 BRUSH AVE
Location Address 2:	Not reported
Location City,State,Zip:	BRONX, NY 10465
Location Zip 4:	Not reported
Facility Status:	Not reported
Total Tanks:	Not reported
Code:	BP

Mailing:

Mailing Name:	UNITED PARCEL SERVICE
Mailing Contact:	LEO EWERS
Mailing Address 1:	545 BRUSH AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	BRONX, NY 10465
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2126316444

Manifest Data:

Document ID:	NYC3363805
Manifest Status:	Not reported
Trans1 State ID:	JU4819
Year:	1994
Trans2 State ID:	Not reported
Generator Ship Date:	12/08/1994
Trans1 Recv Date:	12/08/1994
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/08/1994
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD980785760
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

MGMT Method Type Code:	Not reported
Waste Code 1:	TETRACHLOROETHYLENE
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	00015
Units:	Gallons (liquids only)
Number of Containers:	001
Container Type:	Metal drums, barrels, kegs
Handling Method:	Recycle
Specific Gravity:	01.00
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	11/28/2017
Trans1 Recv Date:	11/28/2017
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/28/2017
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD980536593
TSDF ID 2:	Not reported
Manifest Tracking Number:	000063951VES
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	IGNITABLE WASTE
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	BENZENE
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	880
Units:	Pounds
Number of Containers:	2

UNITED PARCEL SERVICE (Continued) **1000398442**

Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	11/28/2017
Trans1 Recv Date:	11/28/2017
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/28/2017
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD980536593
TSDF ID 2:	Not reported
Manifest Tracking Number:	000063951VES
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	BENZENE
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	85
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	11/15/2011

UNITED PARCEL SERVICE (Continued) **1000398442**

Trans1 Recv Date:	11/15/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/16/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD980536593
TSDF ID 2:	Not reported
Manifest Tracking Number:	000348544VES
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	MERCURY
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	150
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Recycle
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	11/15/2011
Trans1 Recv Date:	11/15/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/16/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD980536593
TSDF ID 2:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Manifest Tracking Number:	000348544VES
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	IGNITABLE WASTE
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	16
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	IND058484114
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	07/23/2010
Trans1 Recv Date:	07/23/2010
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/19/2010
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	OHD980613541
TSDF ID 2:	Not reported
Manifest Tracking Number:	000340595WAS
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H040
Waste Code a:	IGNITABLE WASTE
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	138
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	IND058484114
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	07/23/2010
Trans1 Recv Date:	07/23/2010
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/19/2010
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	OHD980613541
TSDF ID 2:	Not reported
Manifest Tracking Number:	000340595WAS
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H040
Waste Code a:	IGNITABLE WASTE
Waste Code b:	METHYL ETHYL KETONE
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	152
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1

Document ID:	NYC3498783
Manifest Status:	Not reported
Trans1 State ID:	JU4819
Year:	1995
Trans2 State ID:	Not reported
Generator Ship Date:	03/07/1995
Trans1 Recv Date:	03/07/1995
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/07/1995
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD980785760
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code 1:	TETRACHLOROETHYLENE
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	00014
Units:	Gallons (liquids only)
Number of Containers:	001
Container Type:	Metal drums, barrels, kegs
Handling Method:	Recycle
Specific Gravity:	01.00

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	IND058484114
Year:	2018
Trans2 State ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Generator Ship Date:	06/17/2009
Trans1 Recv Date:	06/17/2009
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/30/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	OHD980613541
TSDF ID 2:	Not reported
Manifest Tracking Number:	000245179WAS
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H040
Waste Code a:	IGNITABLE WASTE
Waste Code b:	METHYL ETHYL KETONE
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	146
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	IND058484114
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	05/01/2007
Trans1 Recv Date:	05/01/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/21/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	OHD980613541

UNITED PARCEL SERVICE (Continued) **1000398442**

TSDF ID 2:	Not reported
Manifest Tracking Number:	000112414WAS
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H040
Waste Code a:	METHANE, DICHLORO- (OR) METHYLENE CHLORIDE
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	89
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	IND058484114
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	05/28/2010
Trans1 Recv Date:	05/28/2010
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/22/2010
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	OHD980613541
TSDF ID 2:	Not reported
Manifest Tracking Number:	000337239WAS
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H040
Waste Code a:	METHANE, DICHLORO- (OR) METHYLENE CHLORIDE
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	71
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1

Click this hyperlink while viewing on your computer to access
255 additional NY MANIFEST: record(s) in the EDR Site Report.

NJ MANIFEST:

EPA ID:	NYD986900728
Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
County:	Not reported
Mailing Address:	EXECUTIVE BLVD
Mailing City,State,Zip:	ELMSFORD, NY 10523
Telephone:	Not reported
Emergency Telephone:	Not reported
Contact:	Not reported
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPAID:	Not reported
Generator Flag:	Not reported
Transporter Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest Data:

EPA ID:	NYD986900728
Manifest Number:	000348544VES
Date Shipped:	11/15/2011
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H141
Quantity:	10.00
Unit:	Pounds

Manifest Year:	Not reported
Waste Code:	D009
Hand Code:	H141
Quantity:	150.00
Unit:	Pounds

EPA ID:	NYD986900728
Manifest Number:	000806607VES
Date Shipped:	2/20/2013
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	93.00
Unit:	Pounds

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	45.00
Unit:	Pounds

EPA ID:	NYD986900728
Manifest Number:	000806607VES
Date Shipped:	2/20/2013
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	93.00
Unit:	Pounds

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	45.00
Unit:	Pounds

EPA ID:	NYD986900728
Manifest Number:	000517494VES
Date Shipped:	2/16/2012
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001 D018
Hand Code:	Not reported
Quantity:	390.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
EPA ID:	NYD986900728
Manifest Number:	000517494VES
Date Shipped:	2/16/2012
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001 D018
Hand Code:	Not reported
Quantity:	390.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
EPA ID:	NYD986900728
Manifest Number:	000517494VES
Date Shipped:	2/16/2012
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001 D018
Hand Code:	Not reported
Quantity:	390.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
EPA ID:	NYD986900728
Manifest Number:	000792415VES
Date Shipped:	4/24/2015
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

EPA ID:	NYD986900728
Manifest Number:	000792415VES
Date Shipped:	4/24/2015
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

EPA ID:	NYD986900728
Manifest Number:	000792415VES
Date Shipped:	4/24/2015
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

EPA ID:	NYD986900728
Manifest Number:	000790847VES
Date Shipped:	3/4/2016
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

EPA ID:	NYD986900728
Manifest Number:	000790847VES
Date Shipped:	3/4/2016
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Click this hyperlink while viewing on your computer to access
19 additional NJ MANIFEST: record(s) in the EDR Site Report.

F30 **UPS-BRUSH AVENUE** **NY TANKS** **U003067748**
NNW **545 BRUSH AVE** **NY SPDES** **N/A**
1/8-1/4 **BRONX, NY 10465**
0.148 mi.
779 ft. **Site 4 of 9 in cluster F**

Relative:
Lower

Actual:
5 ft.

TANKS:

Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVE
City,State,Zip:	NEW YORK, NY 10465
Facility Id:	2-258180
Region:	STATE
DEC Region:	2
Site Status:	Inactive
Program Type:	PBS
Expiration Date:	N/A
UTM X:	597950.90678
UTM Y:	4519097.57721

SPDES:

Name:	Ups-Brush Avenue
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
Permit Number:	NYR00D296
State-Region:	02
Expiration Date:	09/30/2017
Current Major Minor Status:	Minor

UPS-BRUSH AVENUE (Continued) **U003067748**

Primary Facility SIC Code:	Not reported
State Water Body Name:	WESTCHESTER CREEK
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	+40.818 / -73.839
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005
Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	UNITED PARCEL SERVICE INC
Non-Gov Permit Street Address:	UPS-BRUSH AVE
Non-Gov Permit Supplemental Location:	643 W 43RD ST
Non-Gov Permit City:	NEW YORK
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	10036
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	UNITED PARCEL SERVICE INC
Non-Gov Facility Street Address:	UPS-BRUSH AVENUE
Non-Gov Facility Supplemental Location:	643 W 43RD ST
Non-Gov Facility City:	NEW YORK
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10036
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Facility Type:	Not reported
Name:	Ups-Brush Avenue
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	UNITED PARCEL SERVICE INC
Non-Gov Permit Street Address:	643 W 43RD ST
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	NEW YORK
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	10036
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	UNITED PARCEL SERVICE INC
Non-Gov Facility Street Address:	UPS-BRUSH AVENUE
Non-Gov Facility Supplemental Location:	643 W 43RD ST
Non-Gov Facility City:	NEW YORK
Non-Gov Facility State Code:	NY

UPS-BRUSH AVENUE (Continued) **U003067748**

Non-Gov Facility Zip Code:	10036
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Facility Type:	Not reported
Name:	Ups-Brush Avenue
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005
Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	UNITED PARCEL SERVICE INC
Non-Gov Facility Street Address:	UPS-BRUSH AVENUE
Non-Gov Facility Supplemental Location:	643 W 43RD ST
Non-Gov Facility City:	NEW YORK
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10036
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Facility Type:	Not reported

F31 **UNITED PARCEL SERVICE** **NY UST** **U004064869**
NNW **545 BRUSH AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10465**
0.148 mi.
779 ft. **Site 5 of 9 in cluster F**

Relative:
Lower

Actual:
5 ft.

UST:

Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Id/Status:	2-601299 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	01/27/2028

UNITED PARCEL SERVICE (Continued) **U004064869**

UTM X: 597958.40241
UTM Y: 4519250.94552
Site Type: Trucking/Transportation/Fleet Operation

Affiliation Records:

Site Id: 23266
Affiliation Type: Emergency Contact
Company Name: UNITED PARCEL SERVICE
Contact Type: Not reported
Contact Name: SHAKEERA JOHNSON
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (201) 341-0390
EMail: Not reported
Fax Number: Not reported
Modified By: MFLEONAR
Date Last Modified: 2018-02-15

Site Id: 23266
Affiliation Type: Facility Operator
Company Name: UNITED PARCEL SERVICE
Contact Type: Not reported
Contact Name: MILLER PONTON
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 678-8113
EMail: Not reported
Fax Number: Not reported
Modified By: JSMACRI
Date Last Modified: 2023-10-13

Site Id: 23266
Affiliation Type: Facility Owner
Company Name: UNITED PARCEL SERVICE
Contact Type: CORPORATE ENVIRONMENTAL COORDINATOR
Contact Name: MILLER PONTON
Address1: 643 WEST 43RD STREET
Address2: Not reported
City: NEW YORK
State: NY
Zip Code: 10036
Country Code: 001
Phone: (212) 316-3854
EMail: Not reported
Fax Number: Not reported
Modified By: JSMACRI
Date Last Modified: 2023-10-13

Site Id: 23266
Affiliation Type: Mail Contact

UNITED PARCEL SERVICE (Continued) **U004064869**

Company Name:	UNITED PARCEL SERVICE
Contact Type:	Not reported
Contact Name:	MILLER PONTON
Address1:	300 OAK STREET
Address2:	BUILDINGS & SYSTEMS ENGINEERING
City:	UNIONDALE
State:	NY
Zip Code:	11553
Country Code:	001
Phone:	(631) 316-3854
EMail:	MPONTON@UPS.COM
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2023-10-13

Tank Info:

Tank Number:	001
Tank ID:	10247
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	10000
Install Date:	12/01/1985
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Fiberglass coated steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	14
Date Test:	11/07/2013
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	JSMACRI
Last Modified:	10/13/2023

Equipment Records:

C01 - Pipe Location - Aboveground
H05 - Tank Leak Detection - In-Tank System (ATG)
F04 - Pipe External Protection - Fiberglass
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
L09 - Piping Leak Detection - Exempt Suction Piping
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
B00 - Tank External Protection - None
E04 - Piping Secondary Containment - Double walled UG

Tank Number:	001-A
Tank ID:	167541
Tank Status:	Closed - Removed
Material Name:	Closed - Removed

UNITED PARCEL SERVICE (Continued) **U004064869**

Capacity Gallons:	4000
Install Date:	10/01/1986
Date Tank Closed:	08/01/1995
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	99
Date Test:	12/01/1992
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
I00 - Overfill - None
H04 - Tank Leak Detection - Groundwater Well
B02 - Tank External Protection - Original Sacrificial Anode
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None

Tank Number:	002
Tank ID:	45358
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	500
Install Date:	10/01/1986
Date Tank Closed:	08/01/1995
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	9999
Common Name of Substance:	Other
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
B01 - Tank External Protection - Painted/Asphalt Coating
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
B02 - Tank External Protection - Original Sacrificial Anode

UNITED PARCEL SERVICE (Continued) **U004064869**

D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None

Tank Number:	003
Tank ID:	45359
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	500
Install Date:	10/01/1986
Date Tank Closed:	08/01/1995
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	9999
Common Name of Substance:	Other
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
I00 - Overfill - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
B02 - Tank External Protection - Original Sacrificial Anode

Tank Number:	004
Tank ID:	52167
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	4000
Install Date:	09/01/1995
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	14
Date Test:	04/09/2004
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	JSMACRI
Last Modified:	10/13/2023

Equipment Records:

UNITED PARCEL SERVICE (Continued) **U004064869**

C01 - Pipe Location - Aboveground
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
F04 - Pipe External Protection - Fiberglass
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
G04 - Tank Secondary Containment - Double-Walled (Underground)
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
K01 - Spill Prevention - Catch Basin
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
B04 - Tank External Protection - Fiberglass
J01 - Dispenser - Pressurized Dispenser
E04 - Piping Secondary Containment - Double walled UG

F32 **UPS** **NY LTANKS** **S102180041**
NNW **545 BRUSH AVE** **NY CBS** **N/A**
1/8-1/4 **BRONX, NY 10465** **NY Spills**
0.148 mi.
779 ft. **Site 6 of 9 in cluster F**

Relative:
Lower

Actual:
5 ft.

LTANKS:

Name:	545 BRUSH AVENUE
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	8908245 / 1992-09-30
Facility ID:	8908245
Site ID:	212269
Spill Date:	1989-11-17
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	B4
Cleanup Ceased:	1992-09-30
SWIS:	0301
Investigator:	BATTISTA
Referred To:	Not reported
Reported to Dept:	1989-11-17
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1989-11-29
Spill Record Last Update:	1994-05-12
Spiller Name:	Not reported
Spiller Company:	SAME
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	175908
DEC Memo:	Not reported
Remarks:	4K TANK TANK AUDITOR INCONCLUSIVE LEAK RATE.E.I AND R.

UPS (Continued) **S102180041**

All TTF:

Facility ID:	8908245
Spill Number:	8908245
Spill Tank Test:	1536438
Site ID:	212269
Tank Number:	Not reported
Tank Size:	0
Material:	0001
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	212269
Operable Unit ID:	935699
Operable Unit:	01
Material ID:	444995
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	Not reported
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

CBS:

Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
CBS Number:	2-000341
Program Type:	CBS
Facility Status:	Unregulated/Closed
Expiration Date:	Not reported
Dec Region:	2
UTMX:	597936.71079
UTMY:	4519223.33254

SPILLS:

Name:	545 BRUSH AVENUE
Address:	545 BRUSH AVENUE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9307821 / 1993-09-27
Facility ID:	9307821
Facility Type:	ER
DER Facility ID:	284956

UPS (Continued) **S102180041**

Site ID:	138398
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	0301
Spill Date:	1993-09-27
Investigator:	CAMMISA
Referred To:	Not reported
Reported to Dept:	1993-09-27
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	1993-09-27
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1993-09-28
Spill Record Last Update:	2004-09-30
Spiller Name:	Not reported
Spiller Company:	UNK - VEHICLE
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	Not reported
Remarks:	SORBENT WAS APPLIED BUT MARX OF MATERIAL WASHED TO STORM DRAIN - TRUCK ON FRIDAY CAME BY FOR ABSORBENT - NOTIFIED IWCS.

All Materials:

Site ID:	138398
Operable Unit ID:	986334
Operable Unit:	01
Material ID:	394073
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Not reported
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

Name:	UPS
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
Spill Number/Closed Date:	2207848 / Not Reported
Facility ID:	2207848
Facility Type:	ER
DER Facility ID:	593338
Site ID:	647133
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301

UPS (Continued) **S102180041**

Spill Date:	2022-12-21
Investigator:	DXYE
Referred To:	Not reported
Reported to Dept:	2022-12-21
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	1
Date Entered In Computer:	2022-12-21
Spill Record Last Update:	2022-12-21
Spiller Name:	Not reported
Spiller Company:	UPS
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	BRIDGET
DEC Memo:	12/21/22 - Ye - DDO - Spoke with the caller, who is from Haz-Mat One. UPS, one of their clients, reported a punctured saddle tank that spilled 20 gallons of diesel. Miller Environmental is currently performing clean-up. Miller PM: Michael (631) 603-2564. Spoke with Michael. The spill is halfway cleaned up. They are first focusing the cleanup on the main part of the road, where there's a lot of traffic. They arrived in time to put sausage booms to prevent oil entering the soil and are using speedy dry and citrus cleaner. There are no drain impacts. They will send photos and the fully executed manifest.
Remarks:	punctured saddle tank, MILLER Env for clean up

All Materials:

Site ID:	647133
Operable Unit ID:	1394103
Operable Unit:	01
Material ID:	2409594
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20.00
Units:	G
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Name:	UPS
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	1807344 / 2022-07-06
Facility ID:	1807344
Facility Type:	ER

UPS (Continued) **S102180041**

DER Facility ID:	175908
Site ID:	578105
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	0301
Spill Date:	2018-10-09
Investigator:	RHLIN
Referred To:	Not reported
Reported to Dept:	2018-10-09
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2018-10-09
Spill Record Last Update:	2022-07-06
Spiller Name:	LAWRENCE ANDERSON
Spiller Company:	UPS
Spiller Address:	545 BRUSH AVE
Spiller Company:	999
Contact Name:	LAWRENCE ANDERSON
DEC Memo:	1010/18-Zhune spoke to Lawrence Anderson. Lawrence said equipment failure. There is no spill only equipment failure. Hydrostat test in the sump failed the test. Equipment need to be repair. 7/6/22-Lin-No release to the environmental. Case closed. UPS environmental coordinator: Miller Ponton 631-316-3854
Remarks:	test fail dispenser pan for #2

All Materials:

Site ID:	578105
Operable Unit ID:	1325857
Operable Unit:	01
Material ID:	2334518
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Name:	UPS
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9507165 / 2005-07-15
Facility ID:	9507165
Facility Type:	ER

UPS (Continued) **S102180041**

DER Facility ID:	175908
Site ID:	212270
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	B3
SWIS:	0301
Spill Date:	1995-09-12
Investigator:	MJHAGGER
Referred To:	Not reported
Reported to Dept:	1995-09-12
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1948-12-27
Spill Record Last Update:	2005-07-15
Spiller Name:	Not reported
Spiller Company:	SAME
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	PAUL HAMMEL
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was M TIBBE TRANSFERED FROM SIGONA TO TIBBE. 7/15/2005 JAA (Jack Aversa) file review. Reviewed UST closure report (Jan 1996) - requested by Mike Haggerty and faxed by LBG on 6/17/2005, Report Appendix- faxed by LBG on 6/27/2005, and Disposal receipts (faxed by LBG on 7/15/2005). Leggette, Brashears, and Graham, Inc (LBG) retained by UPS to observe and document the removal of tanks and piping. Two 550 gallon used oil USTs (1 steel, 1 fiberglass) and one 4,000 gallon (double wall steel, fiberglass coated) UST were removed from 2 separate excavations on Sept 5,12 and 13, 1995. Approx 20 feet of 1 inch diameter steel piping connected to a 10k gallon heating oil UST were replaced. UST remvoal and piping replacement conducted by Gas Installations Inc (GI), of Inwood NY. Steel tanks transported by GI to Broxn Iron and Metal works for recycling (receipt provided). FRP tank crushed and disposed by GI at a sanitary landfill. PID readings showed non-detect for used oil ust soil samples. 4 excavation samples were sent to the lab and were non-detect for BTEX. amd VOCs, non-detect for RCRA metals. UG piping confirmatory samples - 2 PAH's slightly exceeded STARS. Gasoline UST removal - soil screened with PID and separated into 2 piles(clean and gasoline impacted). Approx 100 yards stockpiled and later shipped off site for disposal/recycling (receipt included - soil remediation

UPS (Continued) **S102180041**

of Philadelphia). 6 post excavation samples indicated minor exceedances for total BTEX and MTBE.
Receipts provided for tank bottoms. PBS # 2-601299 - tanks shown as closed. No further action
required. File closed.

Remarks: FOUND CONTAMINATED SOIL AND SOME SHEEN ON GROUND WATER

All Materials:

Site ID:	212270
Operable Unit ID:	1018029
Operable Unit:	01
Material ID:	361593
Material Code:	0064A
Material Name:	unknown material
Case No.:	Not reported
Material FA:	Other
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

F33 NNW 1/8-1/4 0.148 mi. 779 ft. **UNITED PARCEL SERVICE 545 BRUSH AVENUE BRONX, NY 10465** **NY AST** **A100520422 N/A**

Site 7 of 9 in cluster F

Relative: Lower

Actual: 5 ft.

AST:

Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-000341
Program Type:	CBS
UTM X:	597936.71079
UTM Y:	4519223.33254
Expiration Date:	N/A
Site Type:	Trucking/Transportation/Fleet Operation

Tank Info:

Tank Number:	005C
Tank Id:	192772
Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - In Place
Pipe Model:	Not reported
Install Date:	09/01/1995
Capacity Gallons:	200
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	06/08/2012
Register:	True

UNITED PARCEL SERVICE (Continued) **A100520422**

Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	Not reported

Tank Number:	005D
Tank Id:	192773
Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - In Place
Pipe Model:	Not reported
Install Date:	09/01/1995
Capacity Gallons:	200
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	06/08/2012
Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	Not reported

F34 **UNITED PARCEL SERVICE** **NY AST** **A100521063**
NNW **545 BRUSH AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10465**
0.148 mi.
779 ft. **Site 8 of 9 in cluster F**

Relative:
Lower

Actual:
5 ft.

AST:

Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-601299
Program Type:	PBS
UTM X:	597958.40241
UTM Y:	4519250.94552
Expiration Date:	01/27/2028
Site Type:	Trucking/Transportation/Fleet Operation

Affiliation Records:

Site Id:	23266
Affiliation Type:	Emergency Contact
Company Name:	UNITED PARCEL SERVICE
Contact Type:	Not reported
Contact Name:	SHAKEERA JOHNSON
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(201) 341-0390
EMail:	Not reported
Fax Number:	Not reported

UNITED PARCEL SERVICE (Continued) **A100521063**

Modified By:	MFLEONAR
Date Last Modified:	2018-02-15

Site Id:	23266
Affiliation Type:	Facility Operator
Company Name:	UNITED PARCEL SERVICE
Contact Type:	Not reported
Contact Name:	MILLER PONTON
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 678-8113
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2023-10-13

Site Id:	23266
Affiliation Type:	Facility Owner
Company Name:	UNITED PARCEL SERVICE
Contact Type:	CORPORATE ENVIRONMENTAL COORDINATOR
Contact Name:	MILLER PONTON
Address1:	643 WEST 43RD STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10036
Country Code:	001
Phone:	(212) 316-3854
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2023-10-13

Site Id:	23266
Affiliation Type:	Mail Contact
Company Name:	UNITED PARCEL SERVICE
Contact Type:	Not reported
Contact Name:	MILLER PONTON
Address1:	300 OAK STREET
Address2:	BUILDINGS & SYSTEMS ENGINEERING
City:	UNIONDALE
State:	NY
Zip Code:	11553
Country Code:	001
Phone:	(631) 316-3854
EMail:	MPONTON@UPS.COM
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2023-10-13

Tank Info:

Tank Number:	005A

UNITED PARCEL SERVICE (Continued) **A100521063**

Tank Id: 54021
Material Code: 0015
Common Name of Substance: Motor Oil

Equipment Records:
I04 - Overfill - Product Level Gauge (A/G)
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
L09 - Piping Leak Detection - Exempt Suction Piping
K01 - Spill Prevention - Catch Basin
E00 - Piping Secondary Containment - None
F00 - Pipe External Protection - None
D02 - Pipe Type - Galvanized Steel

Tank Location: Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 09/01/1995
Capacity Gallons: 200
Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: JSMACRI
Last Modified: 10/13/2023
Material Name: motor oil

Tank Number: 005B
Tank Id: 54022
Material Code: 0022
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:
J00 - Dispenser - None
I04 - Overfill - Product Level Gauge (A/G)
C02 - Pipe Location - Underground/On-ground
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
E00 - Piping Secondary Containment - None
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
F00 - Pipe External Protection - None

Tank Location: Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service

UNITED PARCEL SERVICE (Continued) **A100521063**

Pipe Model:	Not reported
Install Date:	09/01/1995
Capacity Gallons:	200
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	JSMACRI
Last Modified:	10/13/2023
Material Name:	waste oil/used oil

F35 **UNITED PARCEL SERVICE** **UST FINDER** **1028572234**
NNW **545 BRUSH AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10465**
0.148 mi.
779 ft. **Site 9 of 9 in cluster F**

Relative:
Lower

Actual:
5 ft.

UST FINDER:

Object ID:	302595
Facility ID:	NY23266
Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Address Match Type:	Not reported
Open USTs:	2
Closed USTs:	3
TOS USTs:	0
Population 1500ft:	56
Private Wells 1500ft:	0
Within 100yr Floodplain:	No
Land Use:	Developed, High Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Facility Status:	Open UST(s)
Date of Last Inspection:	Not reported
EPA Region:	2
Tribe:	Not reported
Coordinate Source:	State
X Coord:	-73.838543
Y Coord:	40.817054
Latitude:	40.817054
Longitude:	-73.838543

UST FINDER:

Object ID:	1219826
Facility ID:	NY23266
Tank ID:	NY26950
Tank Status:	Closed
Installation Date:	1986/10/01 16:00:00+00

UNITED PARCEL SERVICE (Continued) **1028572234**

Removal Date: Not reported
Tank Capacity: 500
Substances: Not reported
Tank Wall Type: Not reported

Object ID: 1219827
Facility ID: NY23266
Tank ID: NY29421
Tank Status: Closed
Installation Date: 1986/10/01 16:00:00+00
Removal Date: Not reported
Tank Capacity: 500
Substances: Not reported
Tank Wall Type: Not reported

Object ID: 1219828
Facility ID: NY23266
Tank ID: NY31893
Tank Status: Closed
Installation Date: 1986/10/01 16:00:00+00
Removal Date: Not reported
Tank Capacity: 4000
Substances: Not reported
Tank Wall Type: Not reported

Object ID: 1219829
Facility ID: NY23266
Tank ID: NY28196
Tank Status: Open
Installation Date: 1985/12/01 16:00:00+00
Removal Date: Not reported
Tank Capacity: 10000
Substances: Not reported
Tank Wall Type: Not reported

Object ID: 1219830
Facility ID: NY23266
Tank ID: NY28621
Tank Status: Open
Installation Date: 1995/09/01 15:59:59+00
Removal Date: Not reported
Tank Capacity: 4000
Substances: Not reported
Tank Wall Type: Not reported

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36 **N Y BRUSH LLC** **RCRA-LQG** **1010327866**
NNW **650 BRUSH AVE** **NY MANIFEST** **NYR000140368**
1/8-1/4 **BRONX, NY 10465**
0.205 mi.
1083 ft.

Relative:
Lower

Actual:
9 ft.

RCRA Listings:
Date Form Received by Agency: 20070101
Handler Name: N Y Brush Llc
Handler Address: Brush Ave
Handler City,State,Zip: BRONX, NY 10465-1804
EPA ID: NYR000140368

N Y BRUSH LLC (Continued) **1010327866**

Contact Name:	CHENG LU
Contact Address:	15TH AVE
Contact City,State,Zip:	COLLEGE POINT, NY 11356
Contact Telephone:	718-358-2000 x2535
Contact Fax:	Not reported
Contact Email:	LUC@PEPSI-NY.COM
Contact Title:	Not reported
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ny
State District:	NYSDEC R2
Mailing Address:	15TH AVE
Mailing City,State,Zip:	COLLEGE POINT, NY 11356
Owner Name:	Ny Brush Llc C/O Pepsi-Cola Bottling Co
Owner Type:	Private
Operator Name:	N Y Brush Llc
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No

N Y BRUSH LLC (Continued) **1010327866**

Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: N Y BRUSH LLC	
Legal Status:	Private
Date Became Current:	20060314
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: NY BRUSH LLC C/O PEPSI-COLA BOTTLING CO	
Legal Status:	Private
Date Became Current:	20060314
Date Ended Current:	Not reported
Owner/Operator Address:	50-35 56TH RD
Owner/Operator City,State,Zip:	MASPETH, NY 11378
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: N Y BRUSH LLC	
Legal Status:	Private
Date Became Current:	20060314
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: NY BRUSH LLC C/O PEPSI-COLA BOTTLING CO	
Legal Status:	Private
Date Became Current:	20060314
Date Ended Current:	Not reported
Owner/Operator Address:	50-35 56TH RD
Owner/Operator City,State,Zip:	MASPETH, NY 11378
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

N Y BRUSH LLC (Continued) **1010327866**

Historic Generators:

Receive Date:	20060628
Handler Name: N Y BRUSH LLC	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20070101
Handler Name: N Y BRUSH LLC	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20060629
Handler Name: N Y BRUSH LLC	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Has the Facility Received Notices of Violations:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported

N Y BRUSH LLC (Continued) **1010327866**

Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	20130924
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	R2STP
Evaluation Responsible Sub-Organization:	RCB
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

NY MANIFEST:

EPA ID:	NYR000140368
Country:	USA
Name:	NY BRUSH LLC C/O PEPSI BOTTLING CO OF NY
Address:	650 BRUSH AVE
Address 2:	Not reported
City,State,Zip:	BRONX, NY 10465-1804
Zip 4:	Not reported
Location Address 1:	650 BRUSH AVENUE
Location Address 2:	Not reported
Location City,State,Zip:	BORNX, NY
Location Zip 4:	Not reported
Facility Status:	Not reported
Total Tanks:	Not reported
Code:	BP

N Y BRUSH LLC (Continued) **1010327866**

Mailing:

Mailing Name:	NY BRUSH LLC C/O PEPSI BOTTLING CO OF NY
Mailing Contact:	ALEXANDER VALLI
Mailing Address 1:	50 34 56TH ROAD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	MASPETH, NY 11378
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	9086687777

Manifest Data:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYR000097972
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	07/13/2006
Trans1 Recv Date:	07/13/2006
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/14/2006
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000140368
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD049836679
TSDF ID 2:	Not reported
Manifest Tracking Number:	NYG3468771
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code a:	B007
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	21383
Units:	Kilograms
Number of Containers:	1
Container Type:	Dump truck
Handling Method:	Landfill

N Y BRUSH LLC (Continued) **1010327866**

Specific Gravity: 1

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37 NNW 1/4-1/2 0.315 mi. 1664 ft.

H.O. PENN MACHINERY COMPANY INC
699 BRUSH AVE
BRONX, NY 10465

NY LTANKS **U003644410**
NY TANKS **N/A**
NY Spills
NY SPDES

Relative: Lower

Actual: 10 ft.

LTANKS:

Name:	CLOSED-LACKOF RECENT INFO
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9200766 / 2003-03-07
Facility ID:	9200766
Site ID:	186683
Spill Date:	1992-04-20
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	ADMIN. CLOSED
Referred To:	Not reported
Reported to Dept:	1992-04-20
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1992-04-24
Spill Record Last Update:	2003-03-07
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	156030
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was ADMIN.CLOSED 03/07/2003 Closed Due To The Nature / Extent Of The Spill Report
Remarks:	3K. CLOSED DUE TO LACK OF ANY RECENT INFO-DOES NOT MEET ANY CLEANUP REQUIREMENTS.

All TTF:

Facility ID:	9200766
Spill Number:	9200766
Spill Tank Test:	1539893
Site ID:	186683
Tank Number:	Not reported
Tank Size:	0
Material:	0022

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	186683
Operable Unit ID:	964580
Operable Unit:	01
Material ID:	415541
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

Name:	H O PENN MACHINERY CO
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
Spill Number/Closed Date:	9612128 / 2006-12-13
Facility ID:	9612128
Site ID:	186684
Spill Date:	1997-01-08
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	C3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	rvketani
Referred To:	Not reported
Reported to Dept:	1997-01-08
CID:	270
Water Affected:	Not reported
Spill Notifier:	Affected Persons
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1997-01-08
Spill Record Last Update:	2006-12-18
Spiller Name:	FRED SCILIANO
Spiller Company:	H O PENN
Spiller Address:	699 BRUSH AVE
Spiller County:	001
Spiller Contact:	FRED SCILIANO

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Spiller Phone: (718) 409-8500
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 324195
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was MULQUEEN 11/8/04 - Austin - received Site assessment/tank closure report from Ira Conklin and sons for H.O. Penn on 8/5/04 - report dated 5/12/97 - end This was NOT transferred to CO 11/16/06 - Austin - Reassigned from Austin to Ketani for followup/review - end 12/6/06 - Raphael Ketani. The site is owned and occupied by H O Penn Machinery Co., Inc., 699 Brush Avenue, Bronx, 10465. The NYC Property Tax database and Property Shark do not list 699 Brush Avenue. The parent company is H O Penn Machinery Co., Inc., 122 Noxon Road, Poughkeepsie, NY, 12603, (845) 452-1200. The site in the Bronx is (718) 863-3800. The PBS case is #2-064084 and there are 2 tanks that were closed 1/1/97 and 6 active tanks. The active tanks are: 2-2000 gal. with lube oil and 1-2000 gal. with waste oil; 1-500 gal. with lube oil; 1-3000 gal. with diesel; 1-6000 gal. with #2 oil. These 6 tanks were installed 2/1/97. There was a tank test failure on 1/8/97 and the finding of contaminated soil around the tank. The caller was Stacey Pettine of Ira D. Conklin & Sons (914) 561-1512. I called H O Penn Machinery Co at (718) 863-3800, but could only leave a voice mail for Jeff Baumann of the Service Department. I sent a CSL. 12/8/06 - Raphael Ketani. Donna Eagan of H O Penn's Poughkeepsie office (845) 437-4069 left a voice mail yesterday stating that she will be working with DEC as Mr. Baumann is out. She asked me to call her to discuss what DEC needs in the way of documentation. I tried calling her, but could only leave a message. 12/11/06 - Raphael Ketani. Ms. Eagan called me. She said that she had a copy of the cleanup closure report for the Bronx site. I asked her to send me a copy. She said she would. 12/13/06 - Raphael Ketani. I received the closure report from Donna Egan. The report contained a short narative section, tables of PID readings for each excavation area - there was only a detection of 149.7 ppm for only the floor of excavation #1, a tank location diagram, a set of end-point soil analytical results for each excavation site - there were no detections, a tank cleaning certificat, a soil manifest, bills of lading for the tank bottoms, and soil tracking forms. Based on the documentation in the closure report, I am closing the case.
Remarks: contaminated soil around tank

All Materials:
Site ID: 186684
Operable Unit ID: 1043629
Operable Unit: 01
Material ID: 556396
Material Code: 0015
Material Name: motor oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Resource Affected: Soil
Oxygenate: Not reported

Site ID: 186684
Operable Unit ID: 1043629

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Operable Unit:	01
Material ID:	556397
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

Site ID:	186684
Operable Unit ID:	1043629
Operable Unit:	01
Material ID:	556395
Material Code:	0010
Material Name:	hydraulic oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

TANKS:

Name:	H O PENN MACHINERY CO
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
Facility Id:	2-242586
Region:	STATE
DEC Region:	2
Site Status:	Inactive
Program Type:	PBS
Expiration Date:	N/A
UTM X:	597994.29622
UTM Y:	4519272.64068

SPILLS:

Name:	BUSINESS
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	1702321 / 2017-06-15
Facility ID:	1702321
Facility Type:	ER
DER Facility ID:	156030
Site ID:	551454
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	2017-06-08
Investigator:	PXLAKHAN
Referred To:	Not reported

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Reported to Dept:	2017-06-08
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2017-06-08
Spill Record Last Update:	2017-06-15
Spiller Name:	Not reported
Spiller Company:	HAMPAN
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	MARCUS WESAW
DEC Memo:	06/08/17 - Lakhani The property is a Caterpillar dealership. The dealership has one Caterpillar in operation in the shop bay. During a normal procedure at the dealership, the Caterpillar's fuel line ruptured releasing 25 gallons of diesel onto the concrete. No drains or catch basins were affected. Miller Environmental was hired to complete the cleanup and provide DEC with a report. Contact for H.O. Penn Machinery Company, the dealership, is Markus Wesaw (Cell: 845-416-7173, Ph: 845-437-4069) 06/15/17 File Review: Spill Report (Miller Environmental, 06/14/17) - Miller was contacted by H.O. Penn Machinery Company, Inc. on 06/08/17 with a report of a hydraulic oil leak at the location. Upon inspection of the impacted area, it appeared that while working on payloader a hydraulic oil line was cut and hydraulic oil was released onto the concrete pavement. HO Penn personnel applied absorbents. Miller applied additional speedy dry to all impacted areas to contain and recover the discharged product. The speedy dry was swept up and containerized prior to offsite disposal. Miller reports that all impacted material has been recovered and disposed of an it appears that no further action is warranted regarding the spill. Spill is closed.
Remarks:	spill on pavement. clean up crew in route

All Materials:

Site ID:	551454
Operable Unit ID:	1299543
Operable Unit:	01
Material ID:	2305761
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	25.00
Units:	G
Recovered:	Not reported
Resource Affected:	Not reported

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Oxygenate:	Not reported

Name:	H.O. PENN MACHINERY
Address:	699 BRUSH AVE.
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0803910 / 2008-07-07
Facility ID:	0803910
Facility Type:	ER
DER Facility ID:	350003
Site ID:	400723
DEC Region:	2
Spill Cause:	Human Error
Spill Class:	Not reported
SWIS:	0301
Spill Date:	2008-07-03
Investigator:	hrpatel
Referred To:	Not reported
Reported to Dept:	2008-07-03
CID:	406
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-07-03
Spill Record Last Update:	2008-07-07
Spiller Name:	JIM STANCO
Spiller Company:	CENTRAL PETROLIUM
Spiller Address:	147 GAZZA BLVD.
Spiller Company:	001
Contact Name:	DONNA EGAN
DEC Memo:	07/07/08-Hiralkumar Patel. spoke with Jim at Central petorleum. oil spilled due to loose fittings on fill box. spilled on concrete pavement. no soil/sewer/drain affected. all cleaned up. case closed.
Remarks:	During a delivery....Mechanical / operator error. Old fitting on the fill pipe of the UST and fill nozzle was not in secure enough. Spill cause was a combo of both. Pavement impacted. No sewers or waterways etc. Used a machine for clean up. Material was put into a drum.

All TTF:

Facility ID:	0803910
Spill Number:	0803910
Spill Tank Test:	2486426
Site ID:	400723
Tank Number:	Not reported
Tank Size:	3000
Material:	0008
EPA UST:	Not reported
UST:	True
Cause:	04
Source:	02

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Watchdog
Last Modified Date:	Not reported

All Materials:

Site ID:	400723
Operable Unit ID:	1157537
Operable Unit:	01
Material ID:	2148561
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	16.00
Units:	G
Recovered:	16.00
Resource Affected:	Soil
Oxygenate:	Not reported

Name:	H.P.O. PENN TRUCK
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0606856 / 2006-09-14
Facility ID:	0606856
Facility Type:	ER
DER Facility ID:	156030
Site ID:	370272
DEC Region:	2
Spill Cause:	Other
Spill Class:	C4
SWIS:	0301
Spill Date:	2006-09-14
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2006-09-14
CID:	444
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2006-09-14
Spill Record Last Update:	2006-09-14
Spiller Name:	DONNA EGAN
Spiller Company:	H.P.O. PENN TRUCK
Spiller Address:	699 BRUSH AVE
Spiller Company:	001
Contact Name:	DONNA EGAN
DEC Memo:	Not reported

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Remarks: AN ENGINE IN THE BACK OF A TRUCK FELL OVER AND KNOCKED A DRUM HOLDING OIL OVER: SOME MAY HAVE SPILLED OUT ON ROADWAY ALONG LONG ISLAND EXPRESSWAY AND BRONX: MOST WAS IN BACK OF TRUCK: ITY HAPPENED IN MIDDLE OF NIGHT WITH NIGHT DRIVER AND WHEN CALLER CAN GET A HOLD OF DRIVER SHE WILL HAVE MORE INFO: STILL INVESTIGATING:

All Materials:

Site ID:	370272
Operable Unit ID:	1128088
Operable Unit:	01
Material ID:	2117738
Material Code:	0015
Material Name:	motor oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	25.00
Units:	G
Recovered:	25.00
Resource Affected:	Soil
Oxygenate:	Not reported

Site ID:	370272
Operable Unit ID:	1128088
Operable Unit:	01
Material ID:	2117698
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

SPDES:

Name:	H.O. Penn Machinery Company Inc
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
Permit Number:	NYR00D814
State-Region:	02
Expiration Date:	09/30/2017
Current Major Minor Status:	Minor
Primary Facility SIC Code:	Not reported
State Water Body Name:	WESTCHESTER CREEK
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	+40.819 / -73.837
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Permit Street Address:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Permit Supplemental Location:	122 NOXON RD
Non-Gov Permit City:	POUGHKEEPSIE
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	12603
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Facility Street Address:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Facility Supplemental Location:	122 NOXON ROAD
Non-Gov Facility City:	POUGHKEEPSIE
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	12603
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Facility Type:	Not reported

Name:	H.O. Penn Machinery Company Inc
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005

Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Permit Street Address:	122 NOXON RD
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	POUGHKEEPSIE
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	12603
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Facility Street Address:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Facility Supplemental Location:	122 NOXON ROAD
Non-Gov Facility City:	POUGHKEEPSIE
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	12603
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Facility Type:	Not reported

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Name:	H.O. Penn Machinery Company Inc
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005
Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Facility Street Address:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Facility Supplemental Location:	122 NOXON ROAD
Non-Gov Facility City:	POUGHKEEPSIE
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	12603
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Facility Type:	Not reported

G38 **VERIZON NEW YORK INC (NY90549)** **NY LTANKS** **S100144737**
NW **500 ZEREGA AVENUE** **NY TANKS** **N/A**
1/4-1/2 **BRONX, NY 10473** **NY NYC LAND USE**
0.317 mi.
1672 ft. **Site 1 of 2 in cluster G**

Relative:
Lower

Actual:
4 ft.

LTANKS:

Name:	500 ZEREGA AVENUE
Address:	500 ZEREGA AVENUE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	8703906 / 1996-08-06
Facility ID:	8703906
Site ID:	270294
Spill Date:	1987-08-11
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	A3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	1987-08-11
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False

VERIZON NEW YORK INC (NY90549) (Continued) **S100144737**

Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1987-08-20
Spill Record Last Update:	1997-04-17
Spiller Name:	Not reported
Spiller Company:	NEW YORK TELEPHONE/NYNEX
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	220114
DEC Memo:	Not reported
Remarks:	EXCAVATE - ISOLATE - RETEST TANKS.

All TTF:

Facility ID:	8703906
Spill Number:	8703906
Spill Tank Test:	1531345
Site ID:	270294
Tank Number:	001
Tank Size:	550
Material:	Not reported
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	1.27
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

Facility ID:	8703906
Spill Number:	8703906
Spill Tank Test:	1531346
Site ID:	270294
Tank Number:	002
Tank Size:	550
Material:	Not reported
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	1.27
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

Facility ID:	8703906
Spill Number:	8703906
Spill Tank Test:	1531347
Site ID:	270294

VERIZON NEW YORK INC (NY90549) (Continued) **S100144737**

Tank Number:	003
Tank Size:	550
Material:	Not reported
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	1.27
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	270294
Operable Unit ID:	910529
Operable Unit:	01
Material ID:	470116
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

TANKS:

Name:	VERIZON NEW YORK INC (NY90549)
Address:	500 ZEREGA AVENUE
City,State,Zip:	BRONX, NY 10473
Facility Id:	2-343587
Region:	STATE
DEC Region:	2
Site Status:	Active
Program Type:	PBS
Expiration Date:	12/14/2027
UTM X:	597533.55556
UTM Y:	4519149.05928

NYC LAND USE:

Name:	Not reported
Address:	500 ZEREGA AVENUE
City,State,Zip:	BRONX, NY 10473
Latitude:	40.8176118
Longitude:	-73.8432033
Type Of Ownership Code:	Not reported
Owner Name:	VERIZON NEW YORK INC.
Borough:	BX
Tax Block:	3542
Tax Lot:	13
Community District:	209
Census Tract 2020:	2009000

VERIZON NEW YORK INC (NY90549) (Continued) **S100144737**

Census Block 2020:	20090001004
Census Tract 2010:	90
Census Block 2010:	1004
School District:	08
City Council District:	18
Fire Company:	L047
Police Precinct:	43
Health Center District:	26
Health Area:	3100
Sanitation District Boro:	2
Sanitation District Number:	09
Sanitation Subsection:	4D
Zoning District 1:	M2-1: Manufacturing Districts
Zoning District 2:	Not reported
Zoning District 3:	Not reported
Zoning District 4:	Not reported
Commercial Overlay 1:	Not reported
Commercial Overlay 2:	Not reported
Special Purpose District 1:	Not reported
Special Purpose District 2:	Not reported
Special Purpose District 3:	Not reported
Limited Height District:	Not reported
Spill Boundary Indicator:	N
Building Class:	G1: GARAGES AND GASOLINE STATIONS - All Parking Garages
Land Use Category:	Parking Facilities
Number Of Easements:	0
Lot Area:	32785
Total Building Floor Area:	4200
Commercial Floor Area:	4200
Residential Floor Area:	0
Office Floor Area:	0
Retail Floor Area:	0
Garage Floor Area:	4200
Storage Floor Area:	0
Factory Floor Area:	0
Other Floor Area:	0
Total Building Floor Area Source Code:	2
Number Of Buildings:	1
Number Of Floors:	1.0000000
Residential Units:	0
Total Units:	1
Lot Frontage:	195.0000000
Lot Depth:	166.0000000
Building Frontage:	60.0000000
Building Depth:	61.5800000
Extension Code:	N
Proximity Code:	1
Irregular Lot Code:	Y
Lot Type:	3
Basement Type/Grade:	0
Assessed Land Value:	619200.00000
Assessed Total Value:	987300.00000
Exempt Total Value:	0.00000
Year Built:	1931
Year Altered 1:	1994
Year Altered 2:	2004
Historic District Name:	Not reported

VERIZON NEW YORK INC (NY90549) (Continued) **S100144737**

Landmark Status:	Not reported
Built Floor Area Ratio:	0.13000000000
Maximum Allowable Residential Far:	0.00000000000
Maximum Allowable Commercial Far:	2.00000000000
Maximum Allowable Community Facility Far:	0.00000000000
Boro Code:	2
Borough, Tax Block and Lot:	2035420013.00000000
Condominium Number:	Not reported
Census Tract 2:	0090
X Coordinate:	1027650
Y Coordinate:	237194
Zoning Map #:	7a
Zoning Map Code:	Not reported
Sanborn Map #:	219 066
Tax Map #:	21404
E-designation Number:	Not reported
Apportionment BBL:	Not reported
Apportionment Date:	Not reported
Pluto ??? Dtm Base Map Indicator:	1
2007 Flood Insurance Rate Map Indicator:	1
2015 Preliminary Flood Insurance Rate Map Indicator:	1
Version Number:	24v1.1
Changed By DCP:	Not reported

G39 **500 ZEREGA AVENUE** **UST FINDER RELEASE** **1029066249**
NW **500 ZEREGA AVENUE** **N/A**
1/4-1/2 **BRONX, NY 0**
0.317 mi.
1672 ft. **Site 2 of 2 in cluster G**

Relative:
Lower

Actual:
4 ft.

UST FINDER RELEASE:

Object ID:	260230
Facility ID:	NY220114
Lust ID:	NY8703906
Name:	500 ZEREGA AVENUE
Address:	500 ZEREGA AVENUE
City,State,Zip:	BRONX, NY 0
Address Match Type:	Not reported
Reported Date:	1987/08/11 16:00:00+00
Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	5364
Domestic Wells within 1500ft:	0
Land Use:	Developed, High Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	2
NFA Letter 1:	Not reported

500 ZEREGA AVENUE (Continued) **1029066249**

NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	State
X Coord:	-73.84433
Y Coord:	40.8166800000001
Latitude:	40.8166799999999
Longitude:	-73.8443299999999

40
South
1/4-1/2
0.333 mi.
1757 ft.

NYCDOS FERRY POINT PARK
44 BEAVER ST - 6TH FLOOR
BRONX, NY 10465

NY SWF/LF **S105912812**
N/A

Relative:
Higher

Actual:
32 ft.

SWF/LF:

Name:	NYCDOS FERRY POINT PARK
Address:	44 BEAVER ST - 6TH FLOOR
City,State,Zip:	BRONX, NY 10465
Flag:	INACTIVE
Region Code:	2
Phone Number:	2128378183
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Robert Lange
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Composting - yard waste - permit
Activity Number:	[03Y25]
Active:	No
East Coordinate:	598300
North Coordinate:	4517900
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

41 WNW 1/4-1/2 0.338 mi. 1784 ft. | **RAILROAD MAINTENANCE CORP.**
432 ZEREGA AVENUE
BRONX, NY 10473

NY SWF/LF **S105912814**
NY NYC LAND USE **N/A**

Relative: Lower

Actual: 10 ft.

SWF/LF:

Name:	RAILROAD MAINTENANCE CORP.
Address:	432 ZEREGA AVENUE
City,State,Zip:	BRONX, NY 10473
Flag:	INACTIVE
Region Code:	2
Phone Number:	2128922000
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	M.GRASSO
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Other
Activity Number:	[03Z19]
Active:	No
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6007-00096
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

NYC LAND USE:

Name:	Not reported
Address:	432 ZEREGA AVENUE
City,State,Zip:	BRONX, NY 10473
Latitude:	40.8163143
Longitude:	-73.8438024
Type Of Ownership Code:	Not reported
Owner Name:	TWO GIRLS & A BOY, .
Borough:	BX
Tax Block:	3513
Tax Lot:	22
Community District:	209
Census Tract 2020:	2009000
Census Block 2020:	20090001004
Census Tract 2010:	90
Census Block 2010:	1004
School District:	08
City Council District:	18

RAILROAD MAINTENANCE CORP. (Continued) **S105912814**

Fire Company:	L047
Police Precinct:	43
Health Center District:	26
Health Area:	3100
Sanitation District Boro:	2
Sanitation District Number:	09
Sanitation Subsection:	4C
Zoning District 1:	M1-1: Manufacturing Districts
Zoning District 2:	Not reported
Zoning District 3:	Not reported
Zoning District 4:	Not reported
Commercial Overlay 1:	Not reported
Commercial Overlay 2:	Not reported
Special Purpose District 1:	Not reported
Special Purpose District 2:	Not reported
Special Purpose District 3:	Not reported
Limited Height District:	Not reported
Spill Boundary Indicator:	N
Building Class:	S9: RESIDENCE - MULTIPLE USE - Single or Multiple Dwelling with Stores or Offices
Land Use Category:	Mixed Residential & Commercial Buildings
Number Of Easements:	0
Lot Area:	31050
Total Building Floor Area:	6680
Commercial Floor Area:	2934
Residential Floor Area:	3746
Office Floor Area:	2934
Retail Floor Area:	0
Garage Floor Area:	0
Storage Floor Area:	0
Factory Floor Area:	0
Other Floor Area:	0
Total Building Floor Area Source Code:	2
Number Of Buildings:	1
Number Of Floors:	3.0000000
Residential Units:	2
Total Units:	4
Lot Frontage:	75.3300000
Lot Depth:	354.0800000
Building Frontage:	50.0000000
Building Depth:	36.0000000
Extension Code:	Not reported
Proximity Code:	1
Irregular Lot Code:	Y
Lot Type:	5
Basement Type/Grade:	0
Assessed Land Value:	245700.00000
Assessed Total Value:	362250.00000
Exempt Total Value:	0.00000
Year Built:	1931
Year Altered 1:	0
Year Altered 2:	0
Historic District Name:	Not reported
Landmark Status:	Not reported
Built Floor Area Ratio:	0.22000000000
Maximum Allowable Residential Far:	0.00000000000
Maximum Allowable Commercial Far:	1.00000000000

RAILROAD MAINTENANCE CORP. (Continued) **S105912814**

Maximum Allowable Community Facility Far:	2.40000000000
Boro Code:	2
Borough, Tax Block and Lot:	2035130022.00000000
Condominium Number:	Not reported
Census Tract 2:	0090
X Coordinate:	1027485
Y Coordinate:	236721
Zoning Map #:	7a
Zoning Map Code:	Not reported
Sanborn Map #:	219 066
Tax Map #:	21403
E-designation Number:	Not reported
Apportionment BBL:	Not reported
Apportionment Date:	Not reported
Pluto ??? Dtm Base Map Indicator:	1
2007 Flood Insurance Rate Map Indicator:	1
2015 Preliminary Flood Insurance Rate Map Indicator:	1
Version Number:	24v1.1
Changed By DCP:	Not reported

42
NNW
1/4-1/2
0.361 mi.
1906 ft.

BLOCK 3579, LOT 1
BLOCK 3579, LOT 1
BRONX, NY 10473

NY VCP **S113922170**
N/A

Relative:
Lower

Actual:
7 ft.

VCP:

Name:	BLOCK 3579, LOT 1
Address:	BLOCK 3579, LOT 1
City,State,Zip:	BRONX, NY 10473
Program Type:	VCP
Site Code:	58877
HW Code:	V00321
Site Class:	N
SWIS:	301
Region:	2
Town:	New York City
Acres:	Not reported
Date Record Added:	11/30/2000
Date Record Updated:	07/14/2004
Updated By:	VCPTRANS
Site Description:	Site was denied entry to VCP due to lack of contamination.
Env Problem:	Not reported
Health Problem:	Not reported
Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported
Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	6
Sub Type:	ZZZ

BLOCK 3579, LOT 1 (Continued) **S113922170**

Owner Name:	Not reported
Owner Company:	Ice Cream Partners, USA, LLC
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	ZZ
Owner Country:	United States of America
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

43
NW
1/4-1/2
0.375 mi.
1982 ft.

RANDALL AVE AND ZEREGA AVE/WESTCHESTER CREEK **NY SWF/LF** **S126023660**
HAVMEYER AVE, RANDELL AVE, ZEREGA AVE, CAESAR PLACE **NY ILI** **N/A**
BRONX, NY

Relative:
Higher

Actual:
19 ft.

SWF/LF:

Name:	RANDALL AVE AND ZEREGA AVE/WESTCHESTER CREEK
Address:	HAVMEYER AVE, RANDELL AVE, ZEREGA AVE, CAESAR PLACE
City,State,Zip:	BRONX, NY
Flag:	INACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Not reported
Activity Number:	Not reported
Active:	Not reported
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	2: Fair; Perimeter unclear
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

RANDALL AVE AND ZEREGA AVE/WESTCHESTER CREEK (Continued) **S126023660**

ILI:

Name:	RANDALL AVE AND ZEREGA AVE/WESTCHESTER CREEK
Address:	HAVMEYER AVE, RANDELL AVE, ZEREGA AVE, CAESAR PLACE
City,State,Zip:	BRONX, NY
Latitude:	40.818432
Longitude:	-73.843908
Region:	2
SWID:	Not reported
NY Inactive List:	Not reported
Inactive Reg Number:	Not reported
Alternative Facility Names:	Not reported
Removed:	Not reported
Why Removed:	Not reported
Location Accuracy:	2: Fair; Perimeter unclear
Date Of Last Inspection:	19-Jul-18
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Authorization:	Not reported
Number:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
Start Date:	Not reported
Stop Date:	Not reported
Landfill Type:	Not reported

44
NNW
1/4-1/2
0.391 mi.
2063 ft.

EASTERN ECOLOGY COMPOSTING SITE WESTCHESTER CREEK **NY SWF/LF** **S126022885**
665-637 ZEREGA AVE **NY ILI** **N/A**
BRONX, NY

Relative:
Lower

Actual:
13 ft.

SWF/LF:

Name:	EASTERN ECOLOGY COMPOSTING SITE WESTCHESTER CREEK BETWEEN SEWARD AVE & RANDALL AVE
Address:	665-637 ZEREGA AVE
City,State,Zip:	BRONX, NY
Flag:	INACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported

EASTERN ECOLOGY COMPOSTING SITE WESTCHESTER CREEK BETWEEN SE (Continued) **S126022885**

Contact Phone:	Not reported
Activity Desc:	Not reported
Activity Number:	Not reported
Active:	Not reported
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

ILI:

Name:	EASTERN ECOLOGY COMPOSTING SITE WESTCHESTER CREEK BETWEEN SEWARD A RANDALL AVE
Address:	665-637 ZEREGA AVE
City,State,Zip:	BRONX, NY
Latitude:	40.820539
Longitude:	-73.840808
Region:	2
SWID:	Not reported
NY Inactive List:	Not reported
Inactive Reg Number:	Not reported
Alternative Facility Names:	Not reported
Removed:	Not reported
Why Removed:	Not reported
Location Accuracy:	Not reported
Date Of Last Inspection:	19-Jul-18
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Authorization:	Not reported
Number:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
Start Date:	Not reported
Stop Date:	Not reported
Landfill Type:	Not reported

45 North 1/4-1/2 0.408 mi. 2155 ft.

EARTH BANK COMPANY INC.
748 BRUSH AVENUE
BRONX, NY 10465

NY SWF/LF **S105841684**
NY NYC LAND USE **N/A**

Relative: Higher

Actual: 16 ft.

SWF/LF:

Name:	EARTH BANK COMPANY INC.
Address:	748 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Flag:	INACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	RALPH DIDONATO
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[03T16]
Active:	No
East Coordinate:	598005
North Coordinate:	4519723
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	- 1-
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

NYC LAND USE:

Name:	Not reported
Address:	748 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Latitude:	40.8221437
Longitude:	-73.8375092
Type Of Ownership Code:	Not reported
Owner Name:	VALAD, JAVAD
Borough:	BX
Tax Block:	5559
Tax Lot:	83
Community District:	210
Census Tract 2020:	2009000
Census Block 2020:	20090002017
Census Tract 2010:	90
Census Block 2010:	2012
School District:	08
City Council District:	13

EARTH BANK COMPANY INC. (Continued) **S105841684**

Fire Company:	E072
Police Precinct:	45
Health Center District:	26
Health Area:	3100
Sanitation District Boro:	2
Sanitation District Number:	10
Sanitation Subsection:	3D
Zoning District 1:	R4A: Residential Districts
Zoning District 2:	Not reported
Zoning District 3:	Not reported
Zoning District 4:	Not reported
Commercial Overlay 1:	Not reported
Commercial Overlay 2:	Not reported
Special Purpose District 1:	Not reported
Special Purpose District 2:	Not reported
Special Purpose District 3:	Not reported
Limited Height District:	Not reported
Spill Boundary Indicator:	N
Building Class:	B1: TWO FAMILY DWELLINGS - Brick
Land Use Category:	One & Two Family Buildings
Number Of Easements:	0
Lot Area:	2692
Total Building Floor Area:	2300
Commercial Floor Area:	0
Residential Floor Area:	2300
Office Floor Area:	0
Retail Floor Area:	0
Garage Floor Area:	0
Storage Floor Area:	0
Factory Floor Area:	0
Other Floor Area:	0
Total Building Floor Area Source Code:	2
Number Of Buildings:	1
Number Of Floors:	2.0000000
Residential Units:	2
Total Units:	2
Lot Frontage:	25.0000000
Lot Depth:	108.6300000
Building Frontage:	25.0000000
Building Depth:	46.0000000
Extension Code:	G
Proximity Code:	3
Irregular Lot Code:	Y
Lot Type:	5
Basement Type/Grade:	2
Assessed Land Value:	8340.00000
Assessed Total Value:	55560.00000
Exempt Total Value:	0.00000
Year Built:	2005
Year Altered 1:	0
Year Altered 2:	0
Historic District Name:	Not reported
Landmark Status:	Not reported
Built Floor Area Ratio:	0.85000000000
Maximum Allowable Residential Far:	0.75000000000
Maximum Allowable Commercial Far:	0.00000000000
Maximum Allowable Community Facility Far:	2.00000000000

EARTH BANK COMPANY INC. (Continued) **S105841684**

Boro Code:	2
Borough, Tax Block and Lot:	2055590083.00000000
Condominium Number:	Not reported
Census Tract 2:	0090
X Coordinate:	1029223
Y Coordinate:	238848
Zoning Map #:	7a
Zoning Map Code:	Not reported
Sanborn Map #:	221 039
Tax Map #:	21807
E-designation Number:	Not reported
Apportionment BBL:	2055590081.00000000
Apportionment Date:	02/26/2007
Pluto ??? Dtm Base Map Indicator:	1
2007 Flood Insurance Rate Map Indicator:	Not reported
2015 Preliminary Flood Insurance Rate Map Indicator:	Not reported
Version Number:	24v1.1
Changed By DCP:	Not reported

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46 **AAA THROGGS NECK** **FUDS** **1024899209**
East **N/A**
1/2-1 **NEW YORK, NY**
0.806 mi.
4255 ft.

Relative:
Higher

Actual:
17 ft.

FUDS:

EPA Region:	02
Installation ID:	NY29799F111000
Congressional District Number:	14
Name:	AAA THROGGS NECK
FUDS Number:	C02NY0568
City:	NEW YORK
State:	NY
County:	BRONX
Object ID:	5630
USACE Division:	NAD
USACE District:	New England District (NAE)
Status:	Properties without projects
Current Owner:	PRIV: PRIVATE PRIVATE RESIDENCES
EMS Map Link:	https://fudsportal.usace.army.mil/ems/inventory/map?id=56674
Eligibility:	Eligible
Has Projects:	No
NPL Status:	Not reported
Project Required:	No
Feature Description:	The site containing 4.07 acres lease and permit was obtained by US Government in early 1952 for an AAA location. Between August 1952 and February 1954 all the leases and permits ware cancelled and the properties reverted back to the original owners. Currently the ownership of the site is subdivided between 24 owners of one and two family housing units.
Latitude:	40.81416667
Longitude:	-73.82

Count: 5 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BRONX	S113922040	BLOCK 5541, LOT 225 (BRUSH AVENUE	BRUSH AVENUE	10465	NY VCP
BRONX	S126022979	FORT SCHUYLER PARK AREA	LONG ISLAND SOUND, PENNYFIELD		NY SWF/LF, NY ILI
BRONX	S126023254	LB NORTHEAST	ZEREGA AVENUE		NY SWF/LF, NY ILI
BRONX	S105684653	CE - ZEREGA AVE. STATION	ZEREGA AVE. BETWEEN BLACKROCK	10462	NY VCP, NY MGP
BRONX	S121933888	CE - ZEREGA AVE. STATION	ZEREGA AVE. BETWEEN BLACKROCK	10462	NY SHWS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/25/2024
Date Data Arrived at EDR: 03/26/2024
Date Made Active in Reports: 06/24/2024
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/25/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/22/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/22/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/14/2024
Date Data Arrived at EDR: 02/16/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 48

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/17/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2024
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/13/2024
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/13/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/17/2024
Number of Days to Update: 90

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/17/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

SHWS: Inactive Hazardous Waste Disposal Sites in New York State
Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Annually

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: Facility Register
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/25/2024
Date Data Arrived at EDR: 03/27/2024
Date Made Active in Reports: 06/18/2024
Number of Days to Update: 83

Source: Department of Environmental Conservation
Telephone: 518-402-8678
Last EDR Contact: 06/21/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/04/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

LTANKS: Spills Information Database
Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 05/06/2024
Date Data Arrived at EDR: 05/06/2024
Date Made Active in Reports: 05/09/2024
Number of Days to Update: 3

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 05/06/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

HIST LTANKS: Listing of Leaking Storage Tanks

A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 03/15/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/17/2024
Number of Days to Update: 90

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

UST: Petroleum Bulk Storage (PBS) Database

Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 03/19/2024
Date Data Arrived at EDR: 03/20/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 06/18/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: No Update Planned

CBS UST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 10/24/2005
Next Scheduled EDR Contact: 01/23/2006
Data Release Frequency: No Update Planned

MOSF UST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF: Major Oil Storage Facility Site Listing

These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 03/19/2024
Date Data Arrived at EDR: 03/20/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 06/18/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

CBS: Chemical Bulk Storage Site Listing
These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 03/19/2024
Date Data Arrived at EDR: 03/20/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 06/18/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

AST: Petroleum Bulk Storage
Registered Aboveground Storage Tanks.

Date of Government Version: 03/19/2024
Date Data Arrived at EDR: 03/20/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 06/18/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: No Update Planned

CBS AST: Chemical Bulk Storage Database
Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF AST: Major Oil Storage Facilities Database
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/17/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

TANKS: Storage Tank Faciliy Listing

This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

Date of Government Version: 03/19/2024
Date Data Arrived at EDR: 03/20/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-9543
Last EDR Contact: 06/18/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

State and tribal institutional control / engineering control registries

ENV RES DECL: Environmental Restrictive Declarations

The Environmental Restrictive Declarations (ERD) listed were recorded in connection with a zoning action against the noted Tax Blocks and Tax Lots, or portion thereof, and are available in the property records on file at the Office of the City Register for Bronx, Kings, New York and Queens counties or at the Richmond County Clerk's office. They contain environmental requirements with respect to hazardous materials, air quality and/or noise in accordance with Section 11-15 of this Resolution.

Date of Government Version: 03/11/2024
Date Data Arrived at EDR: 03/14/2024
Date Made Active in Reports: 06/05/2024
Number of Days to Update: 83

Source: New York City Department of City Planning
Telephone: 212-720-3300
Last EDR Contact: 06/13/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Varies

RES DECL: Restrictive Declarations Listing

A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/07/2024
Date Made Active in Reports: 03/11/2024
Number of Days to Update: 4

Source: NYC Department of City Planning
Telephone: 212-720-3401
Last EDR Contact: 06/13/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Varies

ENG CONTROLS: Registry of Engineering Controls

Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Quarterly

INST CONTROL: Registry of Institutional Controls

Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Quarterly

Lists of state and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Agreements

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9711
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Semi-Annually

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/14/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Varies

VCP NYC: Voluntary Cleanup Program Listing NYC
New York City voluntary cleanup program sites.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/06/2024
Date Made Active in Reports: 05/30/2024
Number of Days to Update: 85

Source: New York City Office of Environmental Protection
Telephone: 212-788-8841
Last EDR Contact: 06/05/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Brownfields Site List
A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9764
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Semi-Annually

ERP: Environmental Restoration Program Listing
In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a $200 million Environmental Restoration or Brownfields Fund as part of the $1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/11/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/12/2024	Telephone: 202-566-2777
Date Made Active in Reports: 05/10/2024	Last EDR Contact: 06/11/2024
Number of Days to Update: 59	Next Scheduled EDR Contact: 09/23/2024
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Registered Recycling Facility List

A listing of recycling facilities.

Date of Government Version: 03/25/2024	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 03/27/2024	Telephone: 518-402-8678
Date Made Active in Reports: 06/18/2024	Last EDR Contact: 06/21/2024
Number of Days to Update: 83	Next Scheduled EDR Contact: 10/07/2024
	Data Release Frequency: Quarterly

SWTIRE: Registered Waste Tire Storage & Facility List

A listing of facilities registered to accept waste tires.

Date of Government Version: 02/27/2018	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 04/06/2018	Telephone: 518-402-8694
Date Made Active in Reports: 06/08/2018	Last EDR Contact: 05/31/2024
Number of Days to Update: 63	Next Scheduled EDR Contact: 09/16/2024
	Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 07/22/2024
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/04/2024
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: No Update Planned

DEL SHWS: Delisted Registry Sites

A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

HIST UST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

HIST AST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Spill Liens Information
Lien information from the Oil Spill Fund.

Date of Government Version: 04/19/2024
Date Data Arrived at EDR: 04/19/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 68

Source: Office of the State Comptroller
Telephone: 518-474-9034
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Quarterly

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/14/2024
Date Data Arrived at EDR: 06/17/2024
Date Made Active in Reports: 06/24/2024
Number of Days to Update: 7

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/17/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

SPILLS: Spills Information Database
Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 05/06/2024
Date Data Arrived at EDR: 05/06/2024
Date Made Active in Reports: 05/09/2024
Number of Days to Update: 3

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 05/06/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

HIST SPILLS: SPILLS Database
This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/14/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/12/2013
Number of Days to Update: 40

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 11/02/2010
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/30/2024
Date Data Arrived at EDR: 02/13/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 51

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/14/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/18/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/17/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA Watch List

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 07/25/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/13/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 11/13/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 86

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/16/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/11/2024
Date Data Arrived at EDR: 07/11/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 1

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/01/2024
Date Data Arrived at EDR: 04/17/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2023
Date Data Arrived at EDR: 04/04/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 66

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 01/02/2024
Date Data Arrived at EDR: 01/16/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 57

Source: Nuclear Regulatory Commission
Telephone: 301-415-0717
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 11/27/2023
Date Made Active in Reports: 02/22/2024
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 06/21/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2024
Date Data Arrived at EDR: 04/19/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 68

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/16/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/24/2024
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 04/01/2024
Date Data Arrived at EDR: 04/04/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 99

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Quarterly

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 01/07/2022
Date Data Arrived at EDR: 02/24/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 82

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/22/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing
Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/23/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines
An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/18/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 79

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/13/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 98

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/22/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/09/2024
Date Data Arrived at EDR: 02/27/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 87

Source: EPA
Telephone: (212) 637-3000
Last EDR Contact: 05/29/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 09/06/2023
Date Data Arrived at EDR: 09/13/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 89

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/08/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/17/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 06/23/2024
Date Data Arrived at EDR: 06/28/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/28/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/12/2024
Date Data Arrived at EDR: 02/13/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 51

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/14/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS PROJECT: NORTHEASTERN UNIVERSITY PFAS PROJECT

The PFAS Contamination Site Tracker records qualitative and quantitative data from each site in a chart, specifically examining discovery, contamination levels, government response, litigation, health impacts, media coverage, and community characteristics. All data presented in the chart were extracted from government websites, such as state health departments or the Environmental Protection Agency, and news articles.

Date of Government Version: 05/19/2023
Date Data Arrived at EDR: 04/05/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 62

Source: Social Science Environmental Health Research Institute
Telephone: N/A
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS ECHO FIRE TRAIN: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS PT 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/10/2017
Number of Days to Update: 63

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/27/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: No Update Planned

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 06/27/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data
The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 04/14/2024
Date Data Arrived at EDR: 04/16/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-564-4700
Last EDR Contact: 07/16/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

UST FINDER: UST Finder Database
EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 106

Source: Environmental Protection Agency
Telephone: 202-564-0394
Last EDR Contact: 05/08/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

UST FINDER RELEASE: UST Finder Releases Database
US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/31/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 79

Source: Environmental Protecton Agency
Telephone: 202-564-0394
Last EDR Contact: 05/08/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Semi-Annually

E MANIFEST: Hazardous Waste Electronic Manifest System
EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

Date of Government Version: 07/24/2023
Date Data Arrived at EDR: 04/18/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 833-501-6826
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Varies

PFAS 3: PFAS Environmental Site Remediation List
A list of records included in the Environmental Remediation database whose material is listed as Perfluorooctanoic Acid or Perfluorooctane Sulfonic Acid.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9759
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

PFAS 2: New York State Inactive Landfill Initiative

A list of landfills that were investigated and the analytical results for PFOA and PFOS for those landfills. These data represent the landfills from the ILI database that were investigated.

Date of Government Version: 12/12/2022
Date Data Arrived at EDR: 08/10/2023
Date Made Active in Reports: 10/25/2023
Number of Days to Update: 76

Source: Department of Environmental Conservation
Telephone: 518-402-9662
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

DEC surveyed select businesses, fire departments, fire training centers, bulk storage facilities, airports, and Department of Defense (DoD) facilities. The responses to the survey have helped to determine if these entities used or stored materials containing PFOA/PFOS including AFFF and dispersants used in Teflon coating operations. The results of this survey will be updated periodically as additional responses are received..

Date of Government Version: 01/16/2019
Date Data Arrived at EDR: 05/08/2019
Date Made Active in Reports: 06/24/2019
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 518-402-9020
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

AIRS: Air Emissions Data

Point source emissions inventory data.

Date of Government Version: 01/12/2024
Date Data Arrived at EDR: 01/24/2024
Date Made Active in Reports: 04/11/2024
Number of Days to Update: 78

Source: Department of Environmental Conservation
Telephone: 518-402-8452
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Annually

COAL ASH: Coal Ash Disposal Site Listing

A listing of coal ash disposal site locations.

Date of Government Version: 03/26/2024
Date Data Arrived at EDR: 03/27/2024
Date Made Active in Reports: 06/21/2024
Number of Days to Update: 86

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 06/21/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

DRYCLEANERS: Registered Drycleaners

A listing of all registered drycleaning facilities.

Date of Government Version: 03/06/2024
Date Data Arrived at EDR: 03/08/2024
Date Made Active in Reports: 05/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8403
Last EDR Contact: 05/31/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Annually

E DESIGNATION: E DESIGNATION SITE LISTING

The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 03/05/2024
Date Data Arrived at EDR: 03/13/2024
Date Made Active in Reports: 06/05/2024
Number of Days to Update: 84

Source: New York City Department of City Planning
Telephone: 718-595-6658
Last EDR Contact: 06/12/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Semi-Annually

FIN ASSURANCE 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 03/27/2024
Date Data Arrived at EDR: 03/28/2024
Date Made Active in Reports: 06/18/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 06/21/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

FIN ASSURANCE 2: Financial Assurance Information Listing

A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 03/07/2024
Date Data Arrived at EDR: 03/14/2024
Date Made Active in Reports: 03/20/2024
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-8712
Last EDR Contact: 05/31/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

HSWDS: Hazardous Substance Waste Disposal Site Inventory

The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 01/01/2003
Date Data Arrived at EDR: 10/20/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9564
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: No Update Planned

NYC LEAD: Lead-based Paint Testing Results

The results of the inspections for all classrooms serving students under six in applicable buildings. Identifies all classrooms, whether there was observation of peeling paint, and if there was, standard response protocol was followed.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 01/31/2024
Date Made Active in Reports: 04/22/2024
Number of Days to Update: 82

Source: New York City Department of Education
Telephone: 212-374-5141
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

NYC LEAD 2: Recent Lead Paint Violations

Pursuant to New York City?s Housing Maintenance Code, the Department of Housing Preservation and Development (HPD) issues violations against conditions in rental dwelling units that have been verified to violate the New York City Housing Maintenance Code (HMC) or the New York State Multiple Dwelling Law (MDL). Violations are issued when an inspection verifies that a violation of the HMC or MDL exists. It is closed when the violation is corrected, as observed/verified by HPD or as certified by the landlord.

Date of Government Version: 04/29/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 07/25/2024
Number of Days to Update: 85

Source: New York City Department of Housing Preservation & Development
Telephone: 212-863-8200
Last EDR Contact: 05/01/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/25/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

SPDES: State Pollutant Discharge Elimination System

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 01/12/2024
Date Data Arrived at EDR: 02/13/2024
Date Made Active in Reports: 05/02/2024
Number of Days to Update: 79

Source: Department of Environmental Conservation
Telephone: 518-402-8233
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: No Update Planned

VAPOR REOPENED: Vapor Intrusion Legacy Site List

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 02/08/2022
Date Made Active in Reports: 05/06/2022
Number of Days to Update: 87

Source: Department of Environmenal Conservation
Telephone: 518-402-9814
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

UIC: Underground Injection Control Wells

A listing of enhanced oil recovery underground injection wells.

Date of Government Version: 02/26/2024
Date Data Arrived at EDR: 02/28/2024
Date Made Active in Reports: 05/21/2024
Number of Days to Update: 83

Source: Department of Environmental Conservation
Telephone: 518-402-8056
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Quarterly

COOLING TOWERS: Registered Cooling Towers

This data includes the location of cooling towers registered with New York State. The data is self-reported by owners/property managers of cooling towers in service in New York State. In August 2015, the New York State Department of Health released emergency regulations requiring the owners of cooling towers to register them with New York State.

Date of Government Version: 04/02/2024
Date Data Arrived at EDR: 04/10/2024
Date Made Active in Reports: 07/09/2024
Number of Days to Update: 90

Source: Department of Health
Telephone: 518-402-7650
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Varies

ILI: New York State Inactive Landfill Initiative
A solid waste site priority list of mitigation and remedial activities to address sites causing, or substantially contributing to, impairments of drinking water quality. Inactive solid waste disposal sites, primarily landfills, and their potential impact on New York?s drinking water resources from site-related contaminants, with a focus on emerging contaminants.

Date of Government Version: 01/30/2024
Date Data Arrived at EDR: 02/02/2024
Date Made Active in Reports: 04/19/2024
Number of Days to Update: 77

Source: Department of Environmental Conservation
Telephone: 518-402-8671
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

NYC LAND USE: New York City Land Use Information
Land use colors

Date of Government Version: 05/03/2024
Date Data Arrived at EDR: 06/12/2024
Date Made Active in Reports: 06/28/2024
Number of Days to Update: 16

Source: New York City Department of City Planning
Telephone: 212-720-3300
Last EDR Contact: 06/12/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Varies

MGP: Manufactured Gas Plants Listing
From the late 1800's to the mid 1900's, hundreds of manufactured gas plants across New York State supplied homes and industry with fuel for heating, cooking, and lighting. Today, the New York State DEC is overseeing the investigation and cleanup of contamination left behind from these plants.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 80

Source: Department of Environmental Conservation
Telephone: 518-402-9662
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

NYC OER: OER Cleanup Sites Listing
Properties remediated under OER's oversight, both in the E-Designation program and the NYC Voluntary Cleanup Program. Includes sites completed and in progress.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/06/2024
Date Made Active in Reports: 05/29/2024
Number of Days to Update: 84

Source: Office of Environmental Remediation
Telephone: 212-788-8841
Last EDR Contact: 06/05/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COUNTY RECORDS

CORTLAND COUNTY:

AST - CORTLAND: Cortland County Storage Tank Listing
A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/16/2019
Number of Days to Update: 57

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

UST - CORTLAND: Cortland County Storage Tank Listing
A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/16/2019
Number of Days to Update: 57

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

NASSAU COUNTY:

AST - NASSAU: Registered Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 11/27/2023
Date Data Arrived at EDR: 11/28/2023
Date Made Active in Reports: 02/06/2024
Number of Days to Update: 70

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: No Update Planned

AST NCFM: Storage Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

TANKS NASSAU: Registered Tank Database in Nassau County
A listing of facilities in Nassau County with storage tanks.

Date of Government Version: 11/27/2023
Date Data Arrived at EDR: 11/28/2023
Date Made Active in Reports: 02/06/2024
Number of Days to Update: 70

Source: Nassau County Department of Health
Telephone: 516-227-9691
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: No Update Planned

UST - NASSAU: Registered Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 11/27/2023
Date Data Arrived at EDR: 11/28/2023
Date Made Active in Reports: 02/06/2024
Number of Days to Update: 70

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: No Update Planned

UST NCFM: Storage Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

ROCKLAND COUNTY:

AST - ROCKLAND: Petroleum Bulk Storage Database
A listing of aboveground storage tank sites located in Rockland County. Rockland County?s Petroleum Bulk Storage (PBS) program is no longer in service. All related operations/duties are now wholly overseen by the New York State Dept. of Environmental Conservation (NYSDEC).

Date of Government Version: 02/02/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 189

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: No Update Planned

UST - ROCKLAND: Petroleum Bulk Storage Database
A listing of underground storage tank sites located in Rockland County. Rockland County?s Petroleum Bulk Storage (PBS) program is no longer in service. All related operations/duties are now wholly overseen by the New York State Dept. of Environmental Conservation (NYSDEC).

Date of Government Version: 02/02/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 189

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: No Update Planned

SUFFOLK COUNTY:

AST - SUFFOLK: Storage Tank Database
A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 06/28/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 02/07/2019
Number of Days to Update: 63

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: No Update Planned

TANKS SUFFOLK: Storage Tank Database
This county is not included in the state?s database. These are facilities that have no tank information in the storage tank database.

Date of Government Version: 06/28/2018
Date Data Arrived at EDR: 02/05/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 31

Source: Department of Health Services
Telephone: 631-854-2516
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

UST - SUFFOLK: Storage Tank Database
A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 06/28/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 02/07/2019
Number of Days to Update: 63

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: No Update Planned

WESTCHESTER COUNTY:

AST - WESTCHESTER: Listing of Storage Tanks
A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 01/29/2024
Date Data Arrived at EDR: 02/08/2024
Date Made Active in Reports: 03/06/2024
Number of Days to Update: 27

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Semi-Annually

UST - WESTCHESTER: Listing of Storage Tanks
A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 01/29/2024
Date Data Arrived at EDR: 02/08/2024
Date Made Active in Reports: 03/06/2024
Number of Days to Update: 27

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Semi-Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/06/2024
Date Made Active in Reports: 04/25/2024
Number of Days to Update: 79

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/03/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/13/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 10/28/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/09/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 07/03/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Day Care Providers
Source: Department of Health
Telephone: 212-676-2444

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

PROPOSED BALLYS CASINO - RING ROAD
450 HUTCHINSON RIVER PARKWAY
BRONX, NY 10465

TARGET PROPERTY COORDINATES

Latitude (North):	40.813693 - 40˚ 48’ 49.29’’
Longitude (West):	73.835803 - 73˚ 50’ 8.89’’
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	598189.6
UTM Y (Meters):	4518516.0
Elevation:	16 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	14115946 FLUSHING, NY
Version Date:	2019

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES

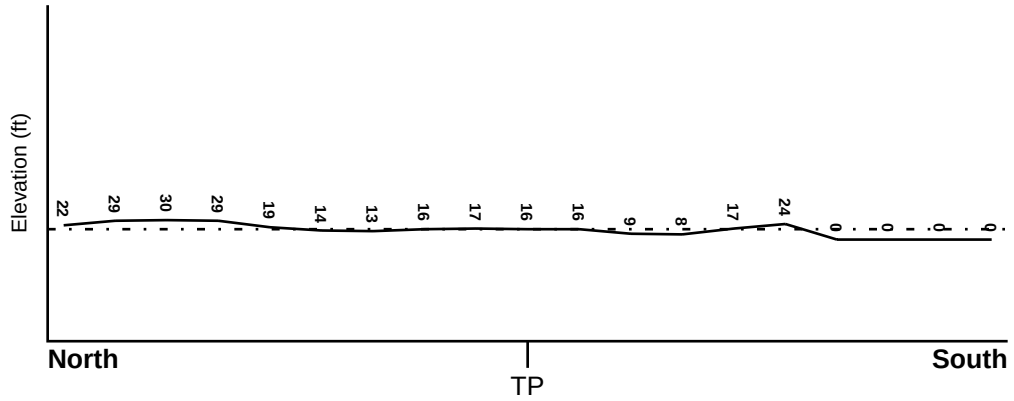

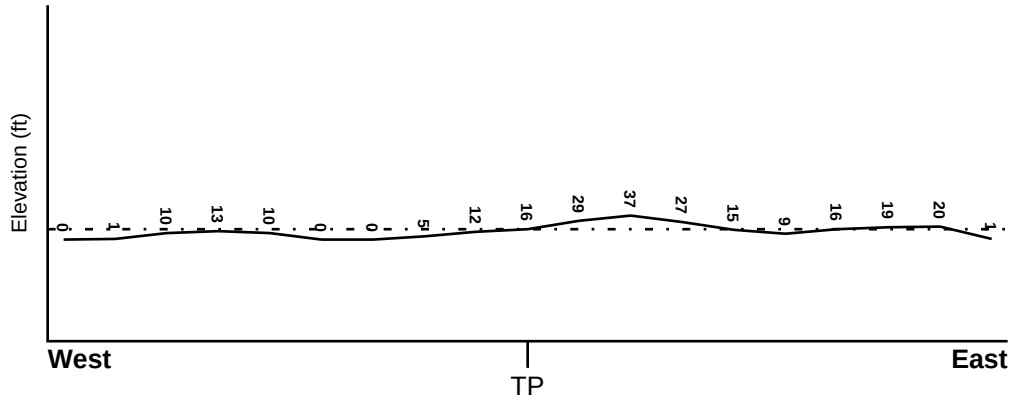

Target Property Elevation: 16 ft.

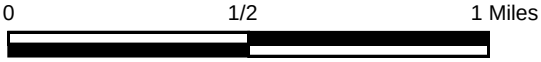

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
3604970104F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
3604970103F	FEMA FIRM Flood data
3604970111F	FEMA FIRM Flood data
3604970112F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
FLUSHING	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Ordovician
Series:	Middle Ordovician (Mohawkian)
Code:	O2 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	URBAN LAND
Soil Surface Texture:	variable
Hydrologic Group:	Not reported
Soil Drainage Class:	Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 10 inches
Depth to Bedrock Max:	> 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: fine sandy loam

Surficial Soil Types: fine sandy loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: unweathered bedrock
gravelly - fine sandy loam
stratified
fine sandy loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000833436	1/4 - 1/2 Mile SSE
2	USGS40000833386	1/4 - 1/2 Mile SSE
3	USGS40000833327	1/2 - 1 Mile SSE
4	USGS40000833595	1/2 - 1 Mile East
5	USGS40000833850	1/2 - 1 Mile NNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 7720624.2s

County Boundary
Major Roads
Contour Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data
Oil, gas or related wells

N

SITE NAME:	Proposed Ballys Casino - Ring Road	CLIENT:	Langan Engineering, Inc.
ADDRESS:	450 Hutchinson River Parkway Bronx NY 10465	CONTACT:	Kaitlyn Gioia
		INQUIRY #:	7720624.2s
LAT/LONG:	40.813693 / 73.835803	DATE:	July 29, 2024 5:00 pm

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Map ID Direction Distance Elevation	Database	EDR ID Number
1 **SSE** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000833436**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	B 39. 1		
Type:	Well: Test hole not completed as a well		
Description:	Not Reported	HUC:	02030102
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	92	Well Hole Depth Units:	ft

2 **SSE** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000833386**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	B 1. 1	Type:	Well
Description:	Not Reported	HUC:	02030102
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

3 **SSE** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000833327**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	B 2. 1	Type:	Well
Description:	Not Reported	HUC:	02030102
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

4 **East** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000833595**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	B 3. 1	Type:	Well
Description:	Not Reported	HUC:	02030102

Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

---

5
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000833850**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	B 9	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	140	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for BRONX County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for BRONX COUNTY, NY

Number of sites tested: 31

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.670 pCi/L	96%	4%	0%
Basement	1.110 pCi/L	42%	58%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

New York Public Water Wells
Source: New York Department of Health
Telephone: 518-458-6731

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Source: Department of Environmental Conservation
Telephone: 518-402-8072
These files contain records, in the database, of wells that have been drilled.

RADON

State Database: NY Radon
Source: Department of Health
Telephone: 518-402-7556
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Appendix F Historical Resources

Proposed Ballys Casino - Ring Road

450 Hutchinson River Parkway

Bronx, NY 10465

Inquiry Number: 7720624.3

July 31, 2024

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

07/31/24

Site Name:	Client Name:
Proposed Ballys Casino - Ring	Langan Engineering, Inc.
450 Hutchinson River Parkway	360 W. 31st Street
Bronx, NY 10465	New York, NY 10001
EDR Inquiry # 7720624.3	Contact: Kaitlyn Gioia

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Langan Engineering, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # F7D1-4C79-AF79

PO # 170773001

Project Prpsd Bally s Casino - Ring Rd

Maps Provided:

2007	1996	1981	1898
2006	1995	1978	
2005	1993	1977	
2004	1992	1967	
2003	1991	1950	
2002	1988	1930	
2001	1986	1919	
1998	1983	1908	

Sanborn® Library search results

Certification #: F7D1-4C79-AF79

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Sanborn Sheet Key

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2007 Source Sheets

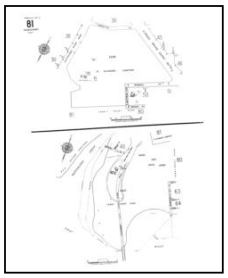

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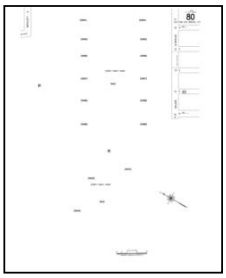

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2007

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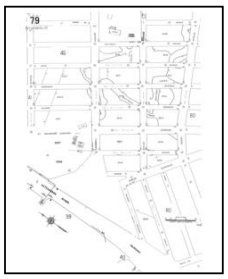

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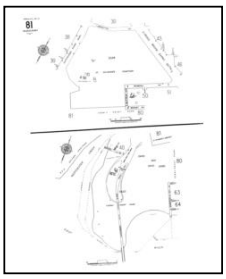

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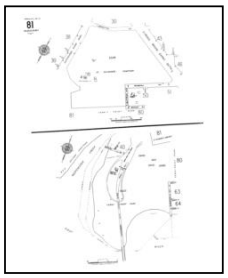

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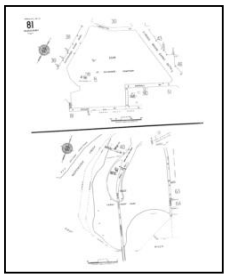

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Sanborn Sheet Key

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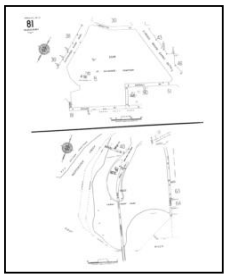

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2003

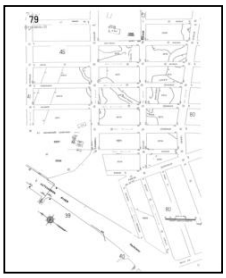

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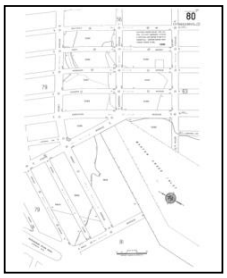

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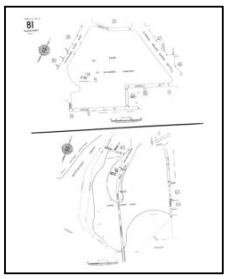

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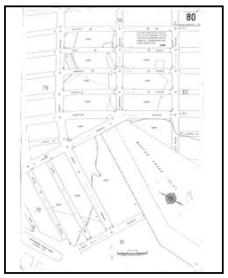

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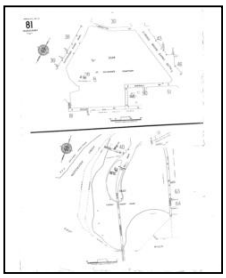

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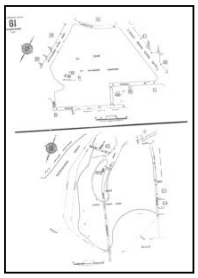

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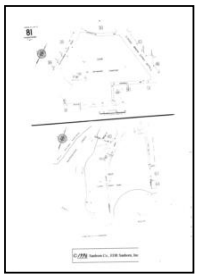

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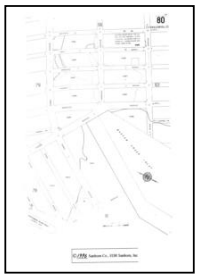

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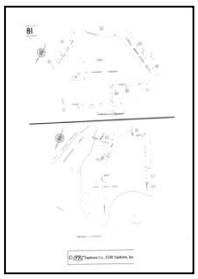

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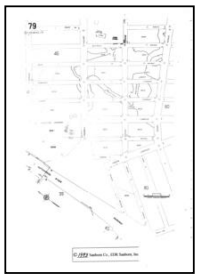

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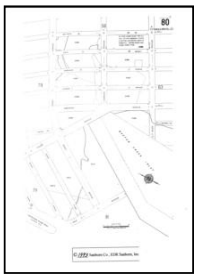

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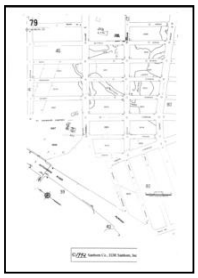

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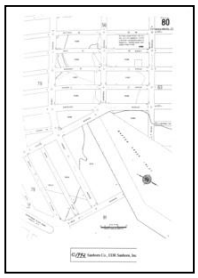

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Volume 21, Sheet 81
1992

Sanborn Sheet Key

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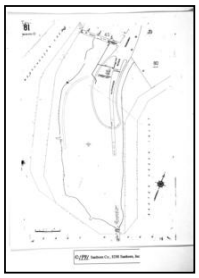

Volume 21, Sheet 81
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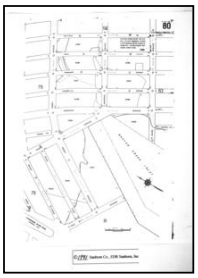

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1988 Source Sheets

Volume 21, Sheet 81
1988

1986 Source Sheets

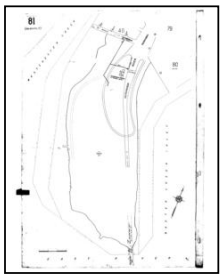

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1983 Source Sheets

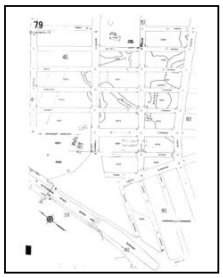

Volume 21, Sheet 79
1983

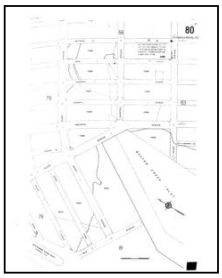

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1983

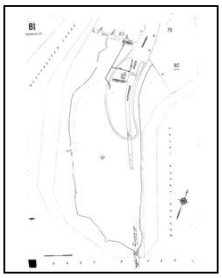

Volume 21, Sheet 81
1983

Sanborn Sheet Key

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1981 Source Sheets

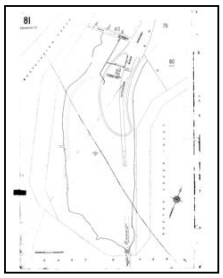

Volume 21, Sheet 81
1981

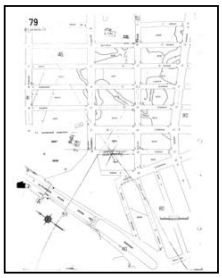

Volume 21, Sheet 79
1981

1978 Source Sheets

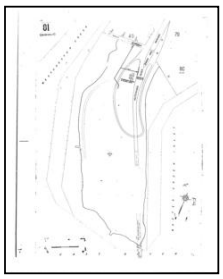

Volume 21, Sheet 81
1978

1977 Source Sheets

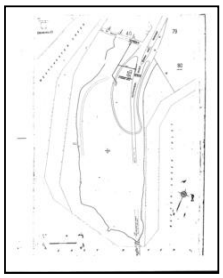

Volume 21, Sheet 81
1977

Volume 21, Sheet 80
1977

1967 Source Sheets

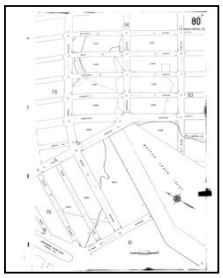

Volume 21, Sheet 80
1967

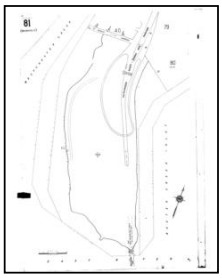

Volume 21, Sheet 81
1967

Sanborn Sheet Key

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1950 Source Sheets

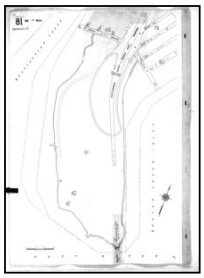

Volume 21, Sheet 81
1950

1930 Source Sheets

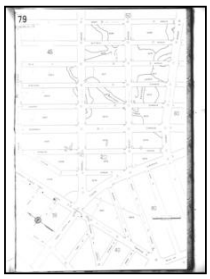

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1930

Volume 21, Sheet 81
1930

1919 Source Sheets

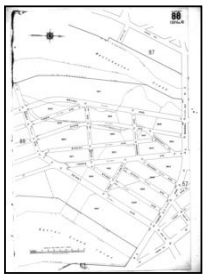

Volume 17, Sheet 88
1919

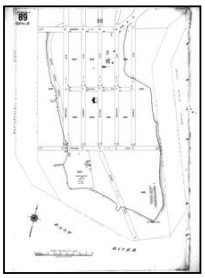

Volume 17, Sheet 89
1919

1908 Source Sheets

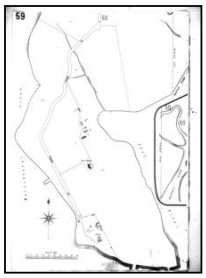

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1908

Sanborn Sheet Key

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1898 Source Sheets

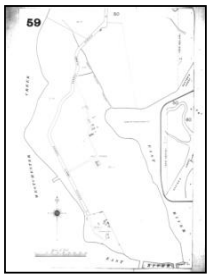

Volume A, Sheet 59
1898

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2007

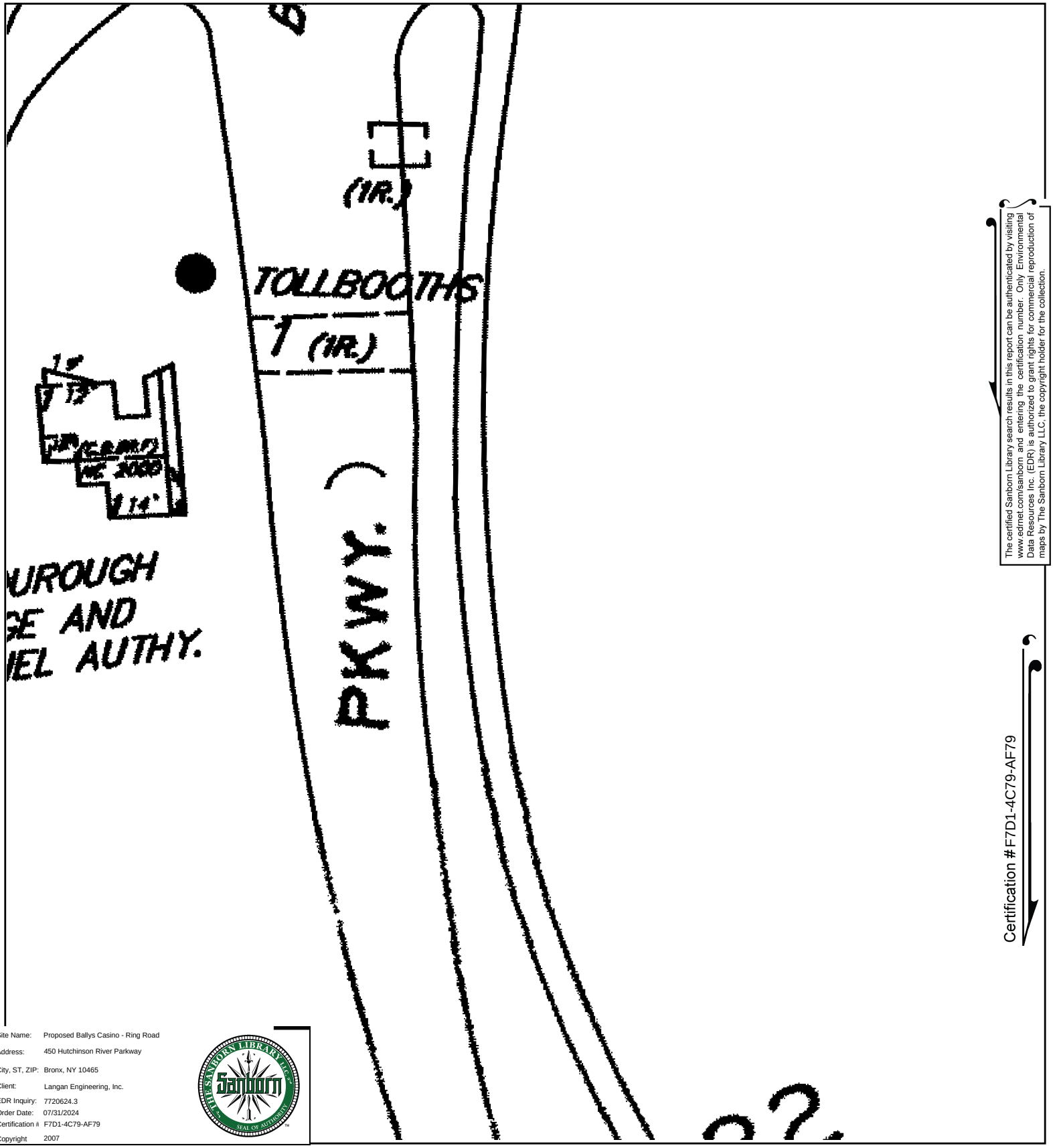

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	2007

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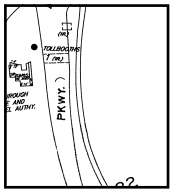

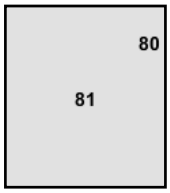

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N

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2006

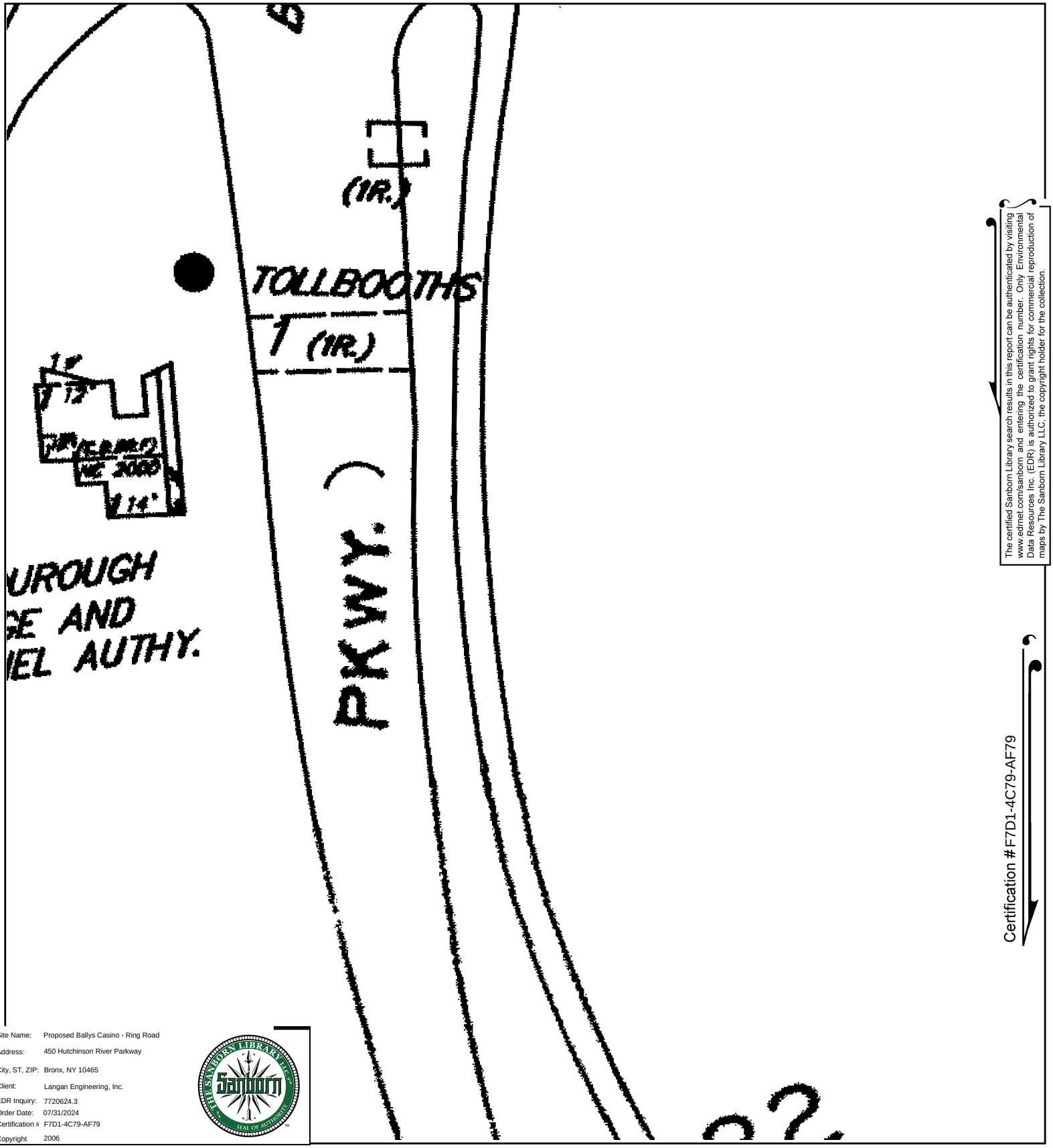

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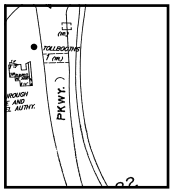

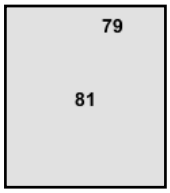

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N

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2005

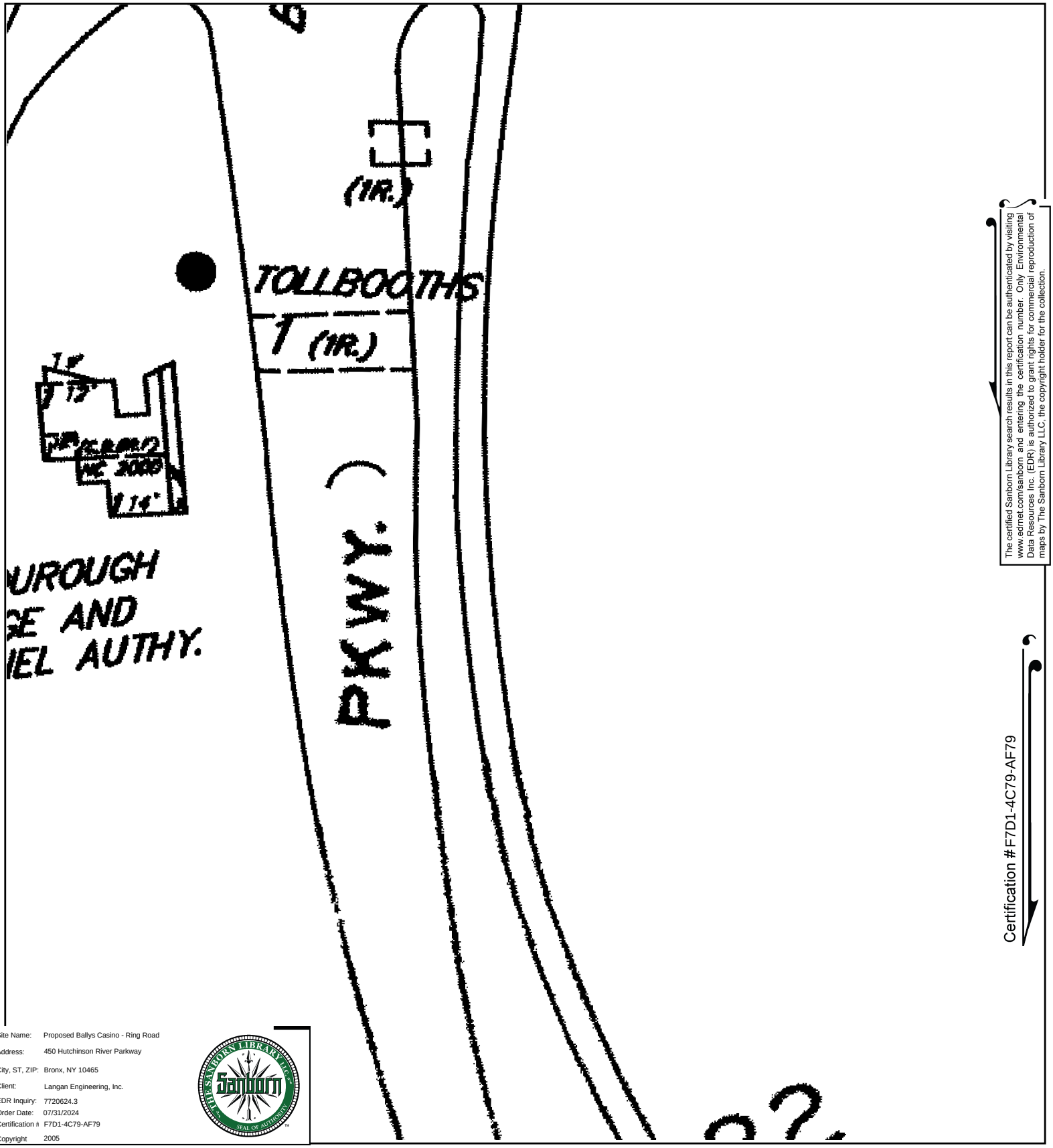

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Client:	Langan Engineering, Inc.
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Certification #	F7D1-4C79-AF79
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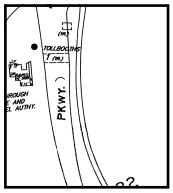

81

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2004

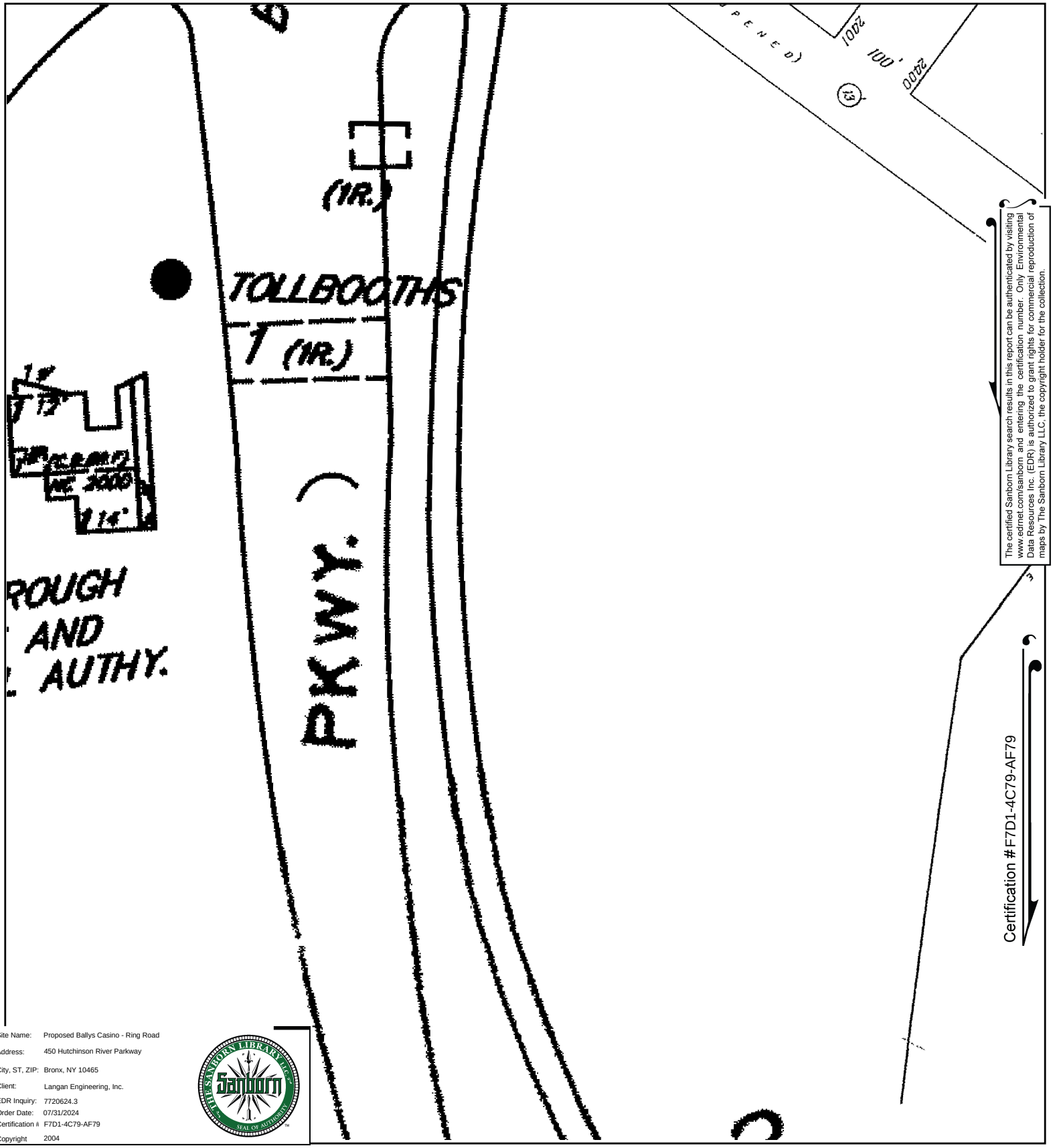

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Certification #	F7D1-4C79-AF79
Copyright	2004

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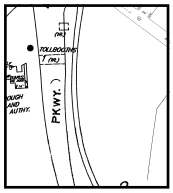

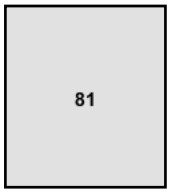

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2003

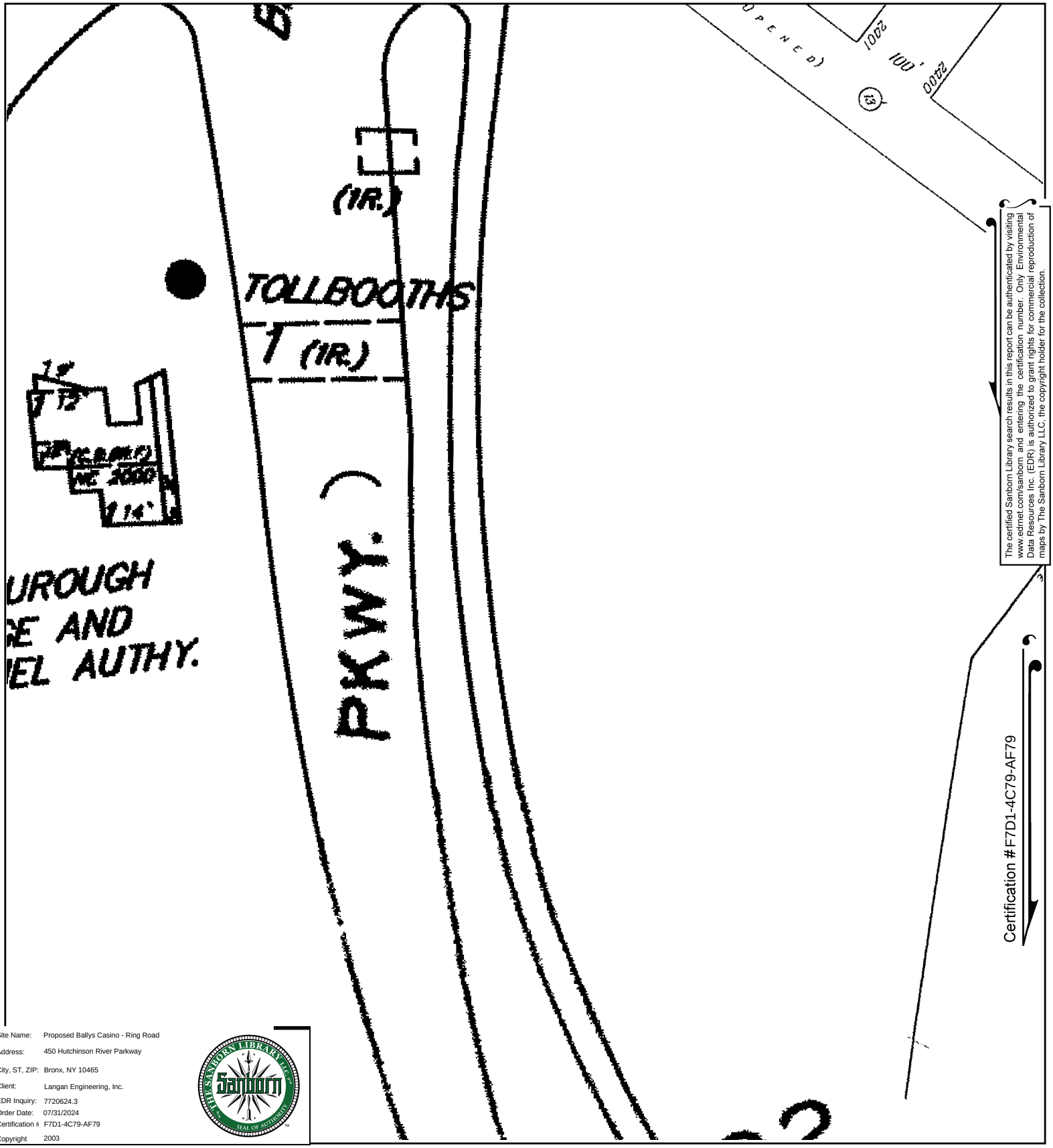

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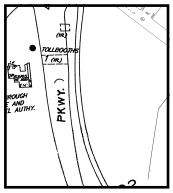

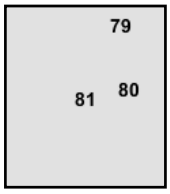

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Volume 21, Sheet 81

N

Certified Sanborn® Map

2002

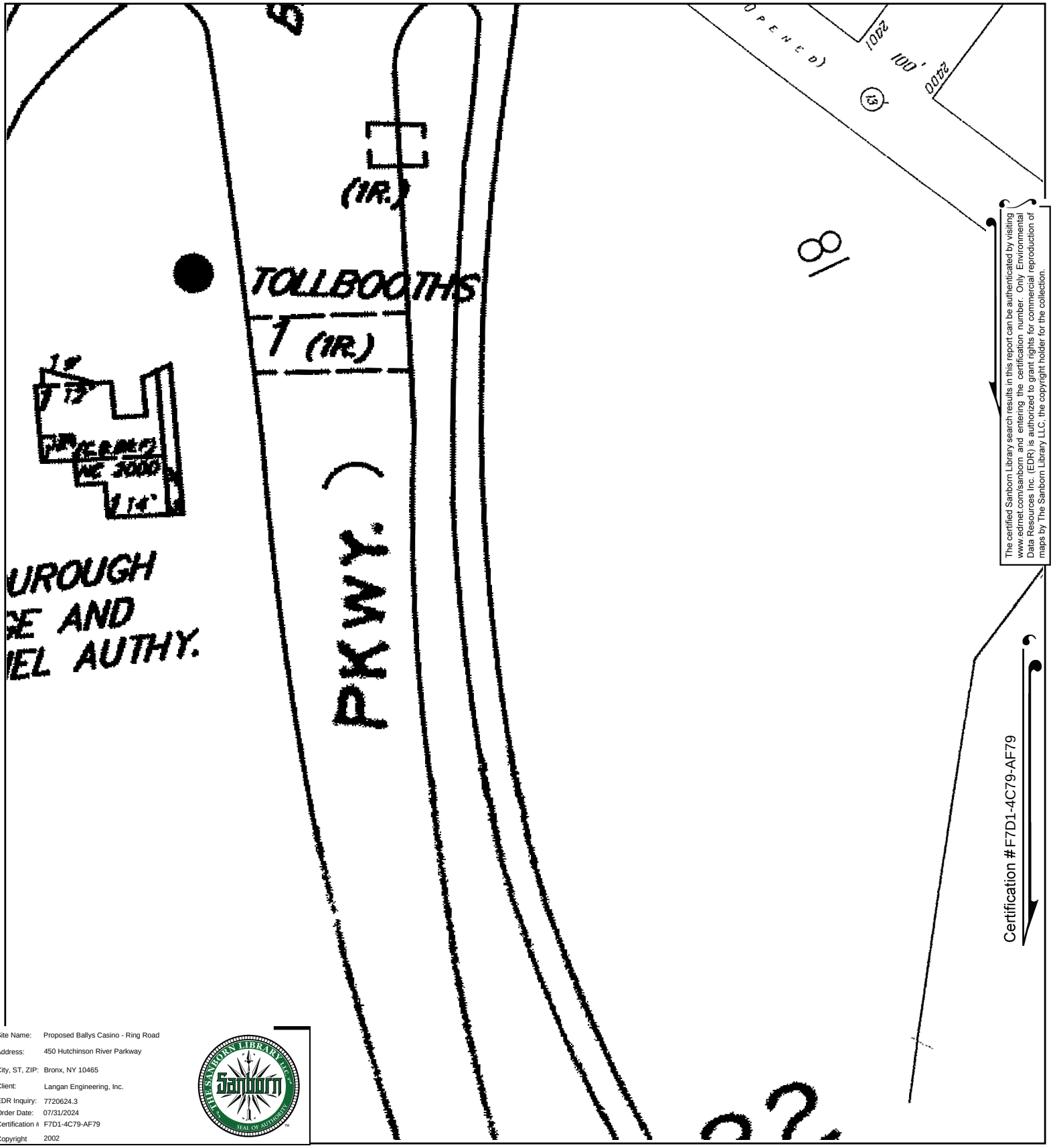

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Certification #	F7D1-4C79-AF79
Copyright	2002

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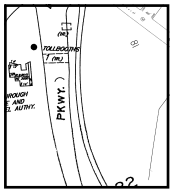

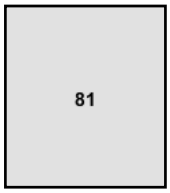

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2001

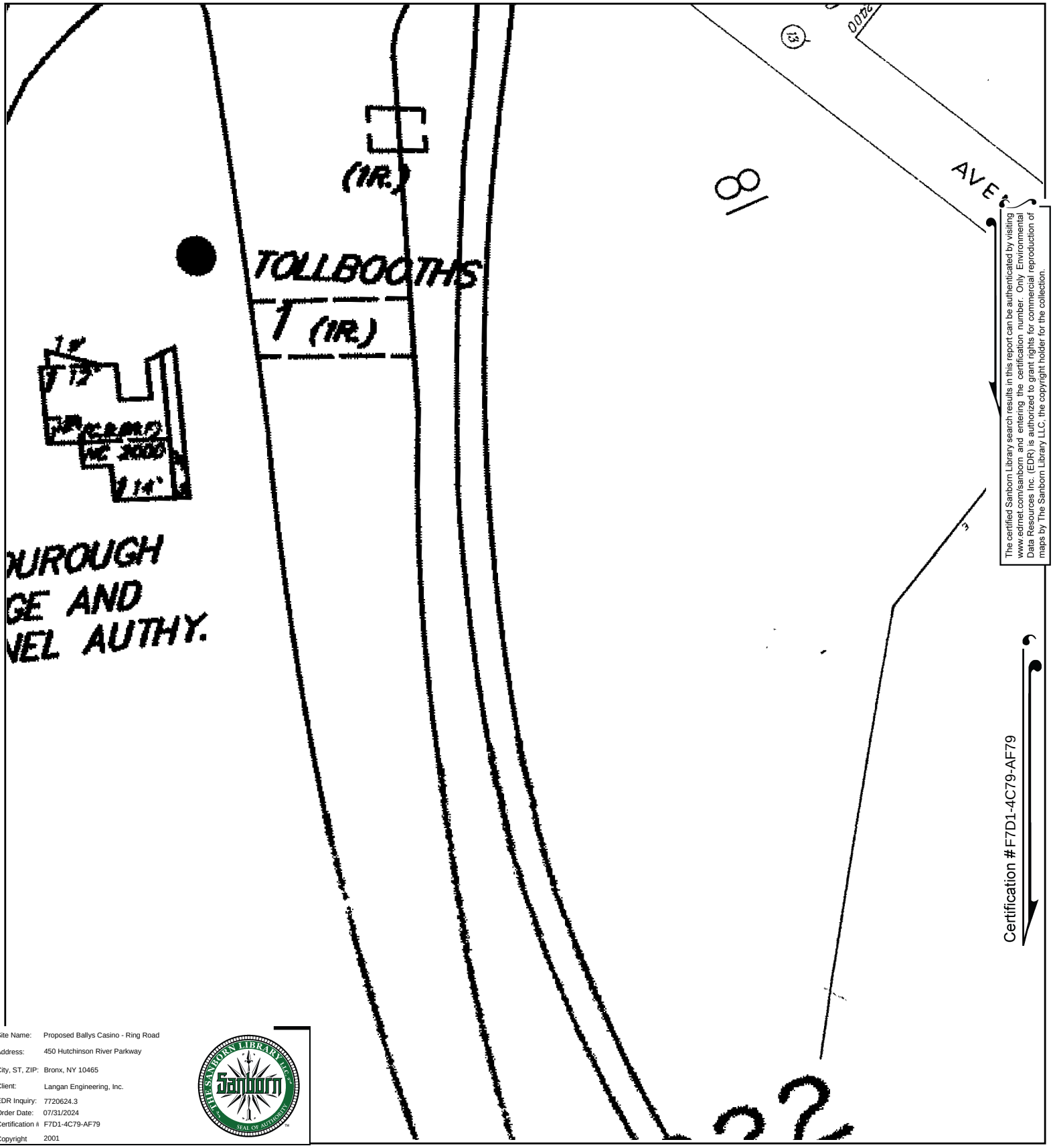

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Copyright	2001

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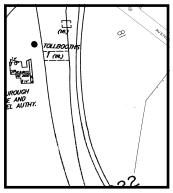

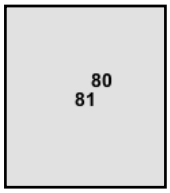

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N

Certified Sanborn® Map

1998

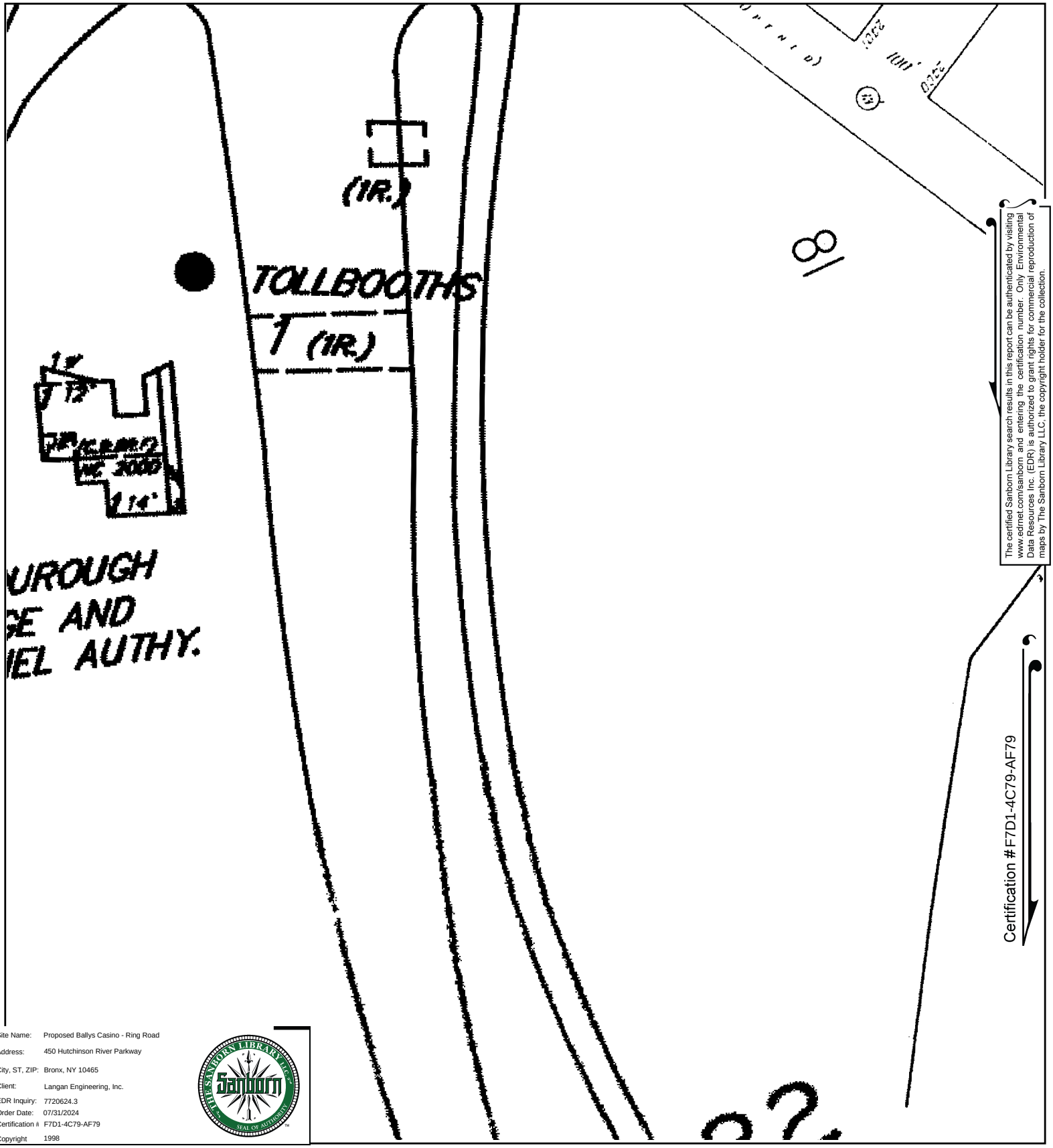

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EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1998

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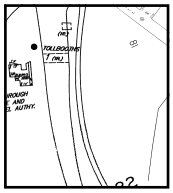

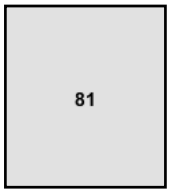

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1996

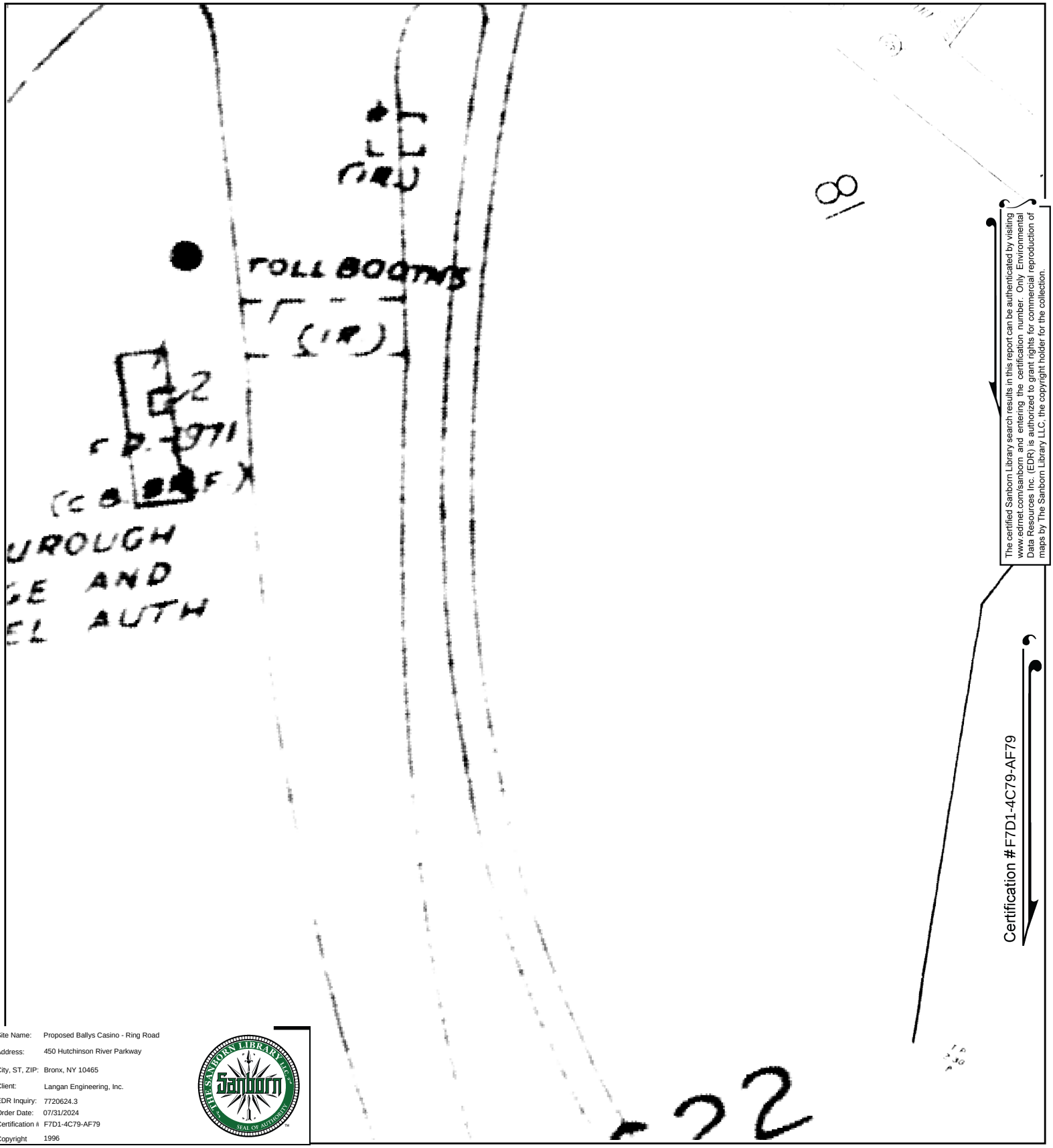

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Certification #	F7D1-4C79-AF79
Copyright	1996

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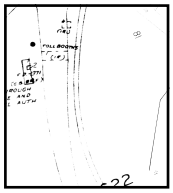

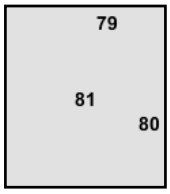

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0 Feet 150 300 600

N

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1995

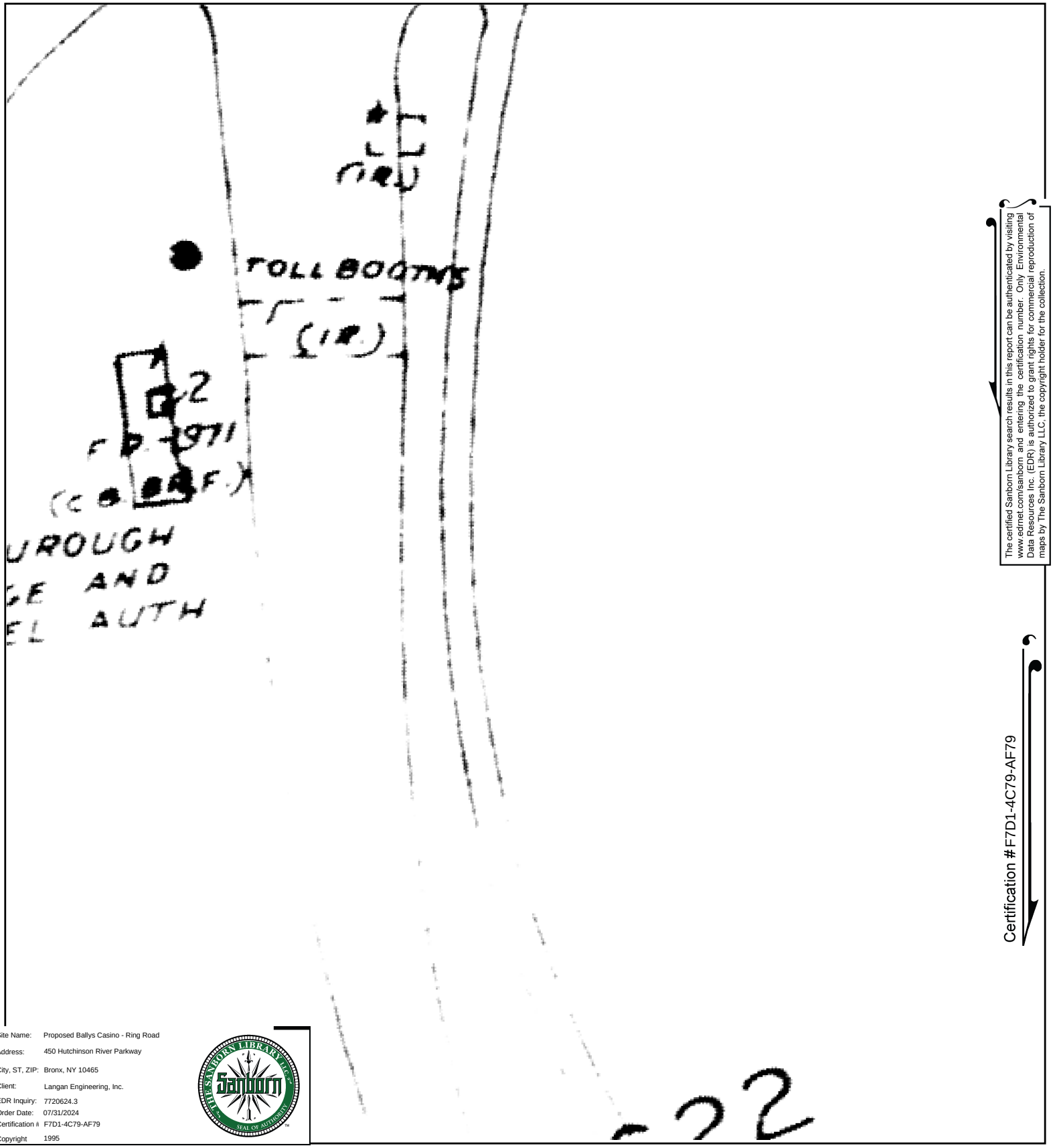

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Certification #F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1995

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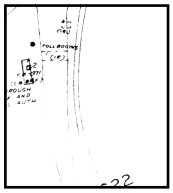

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1993

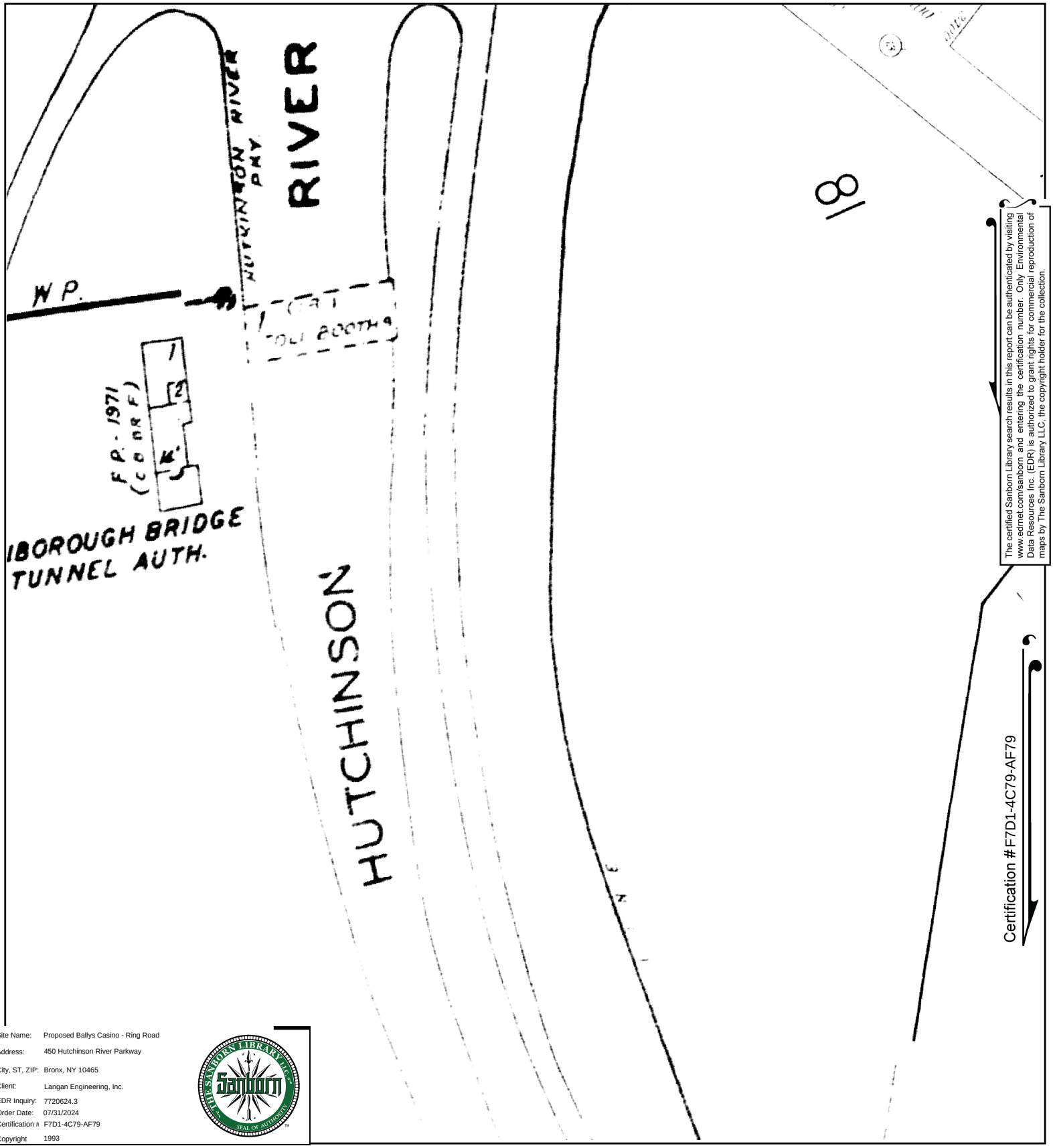

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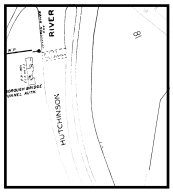

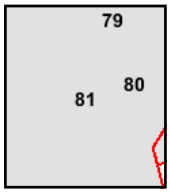

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1992

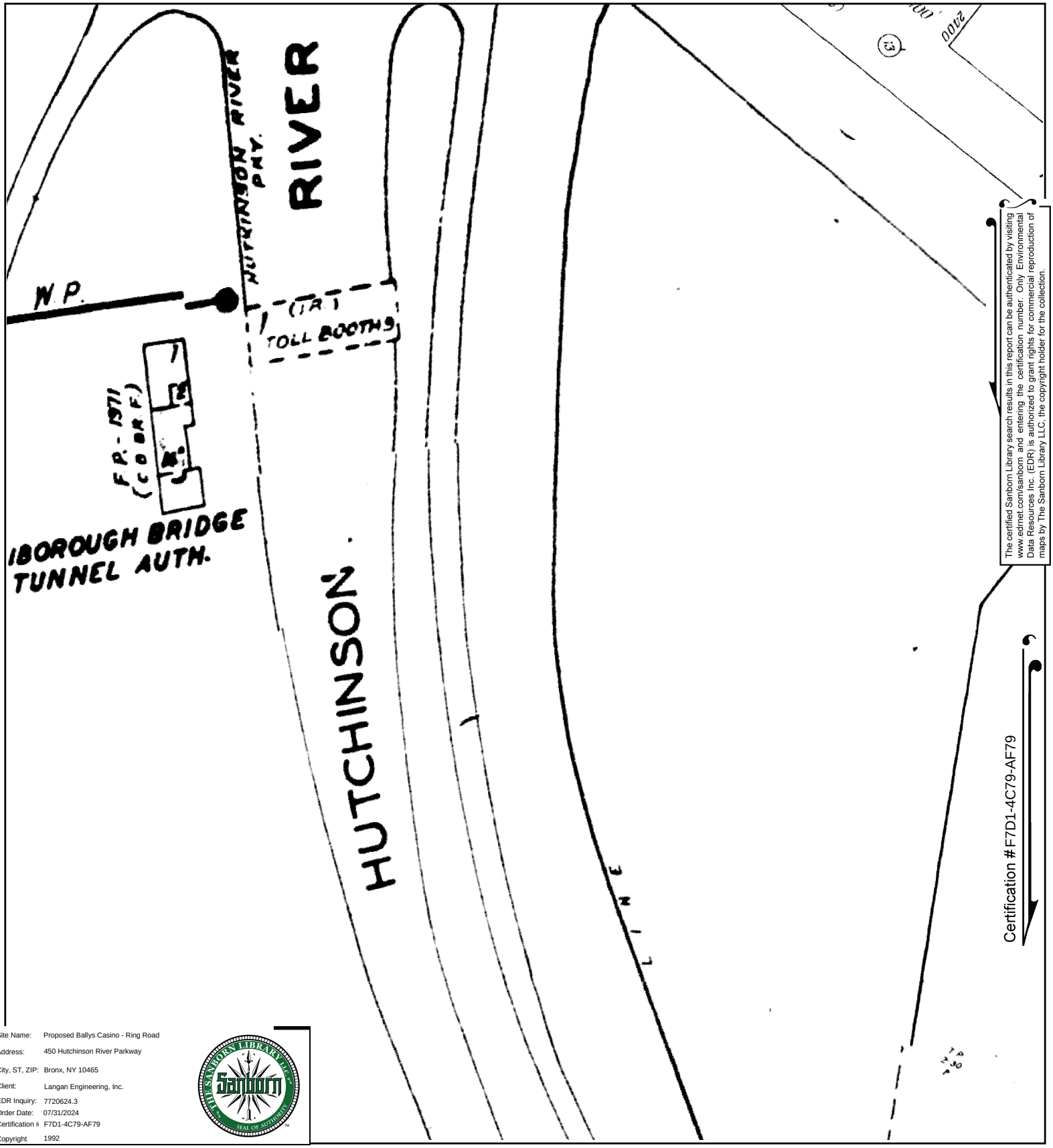

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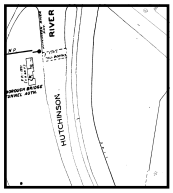

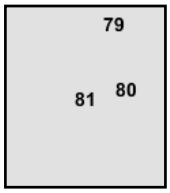

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1991

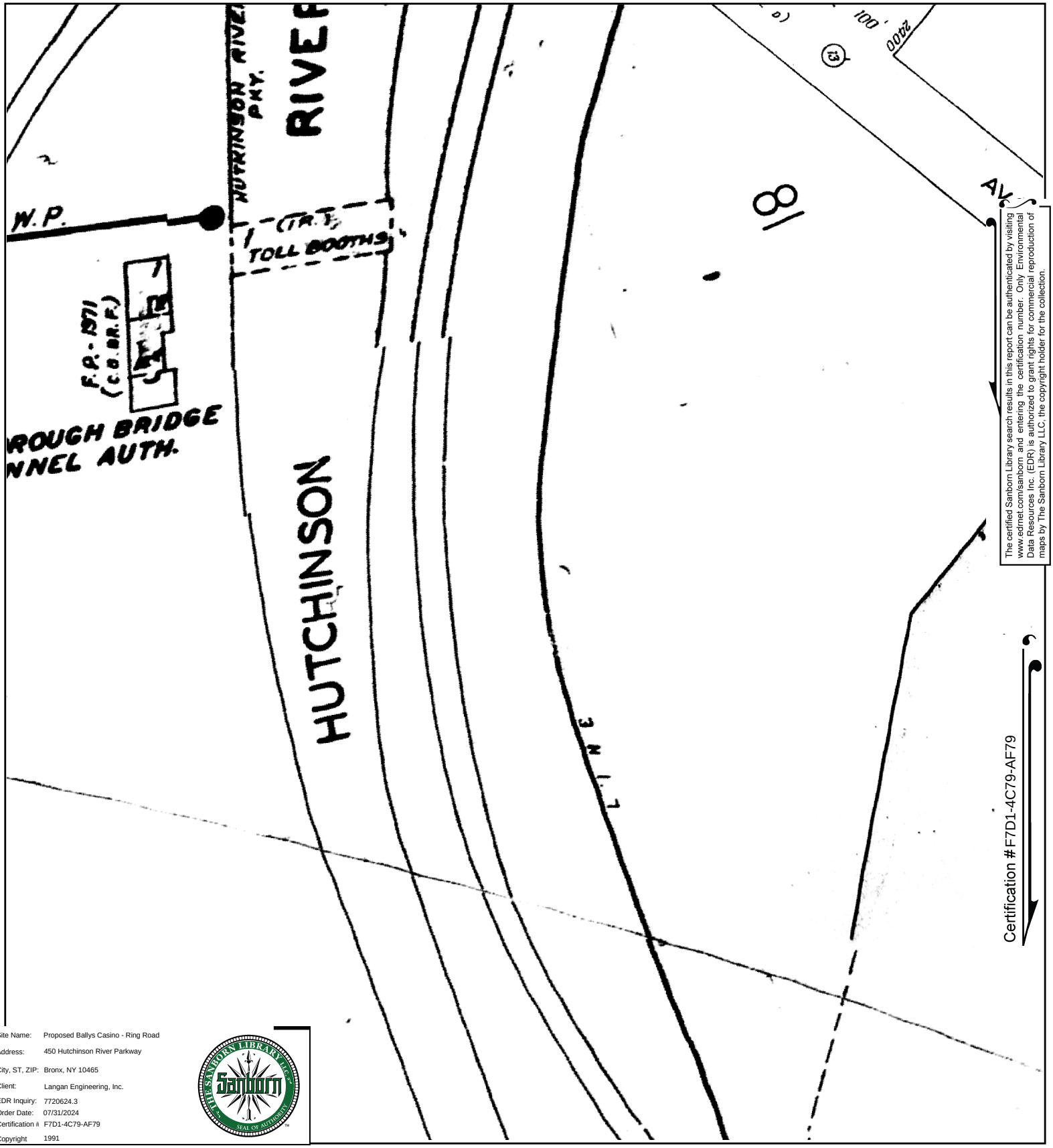

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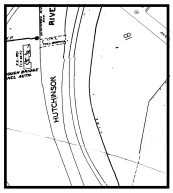

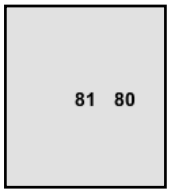

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1988

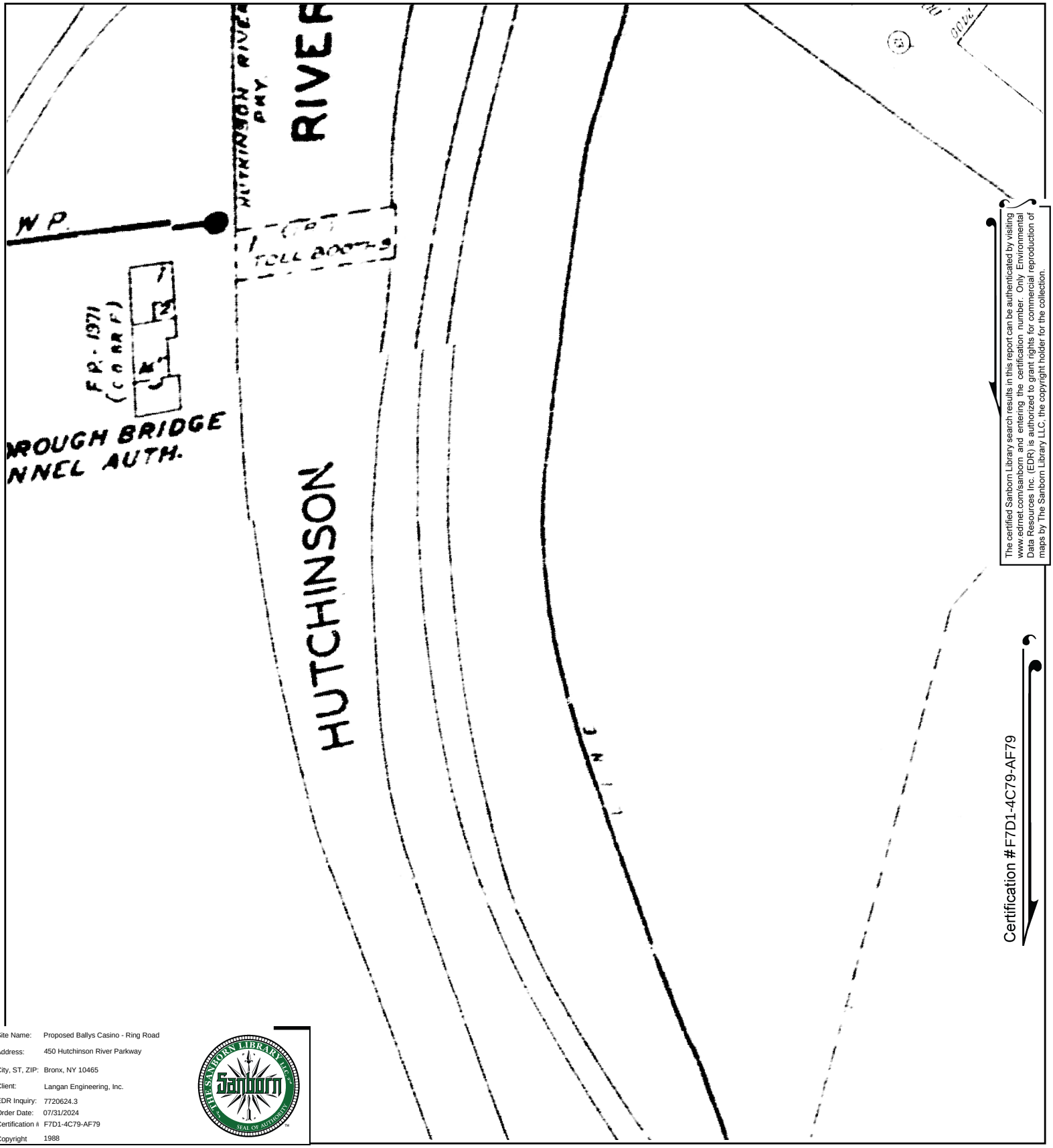

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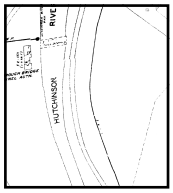

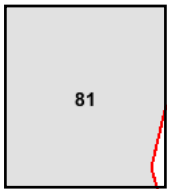

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1986

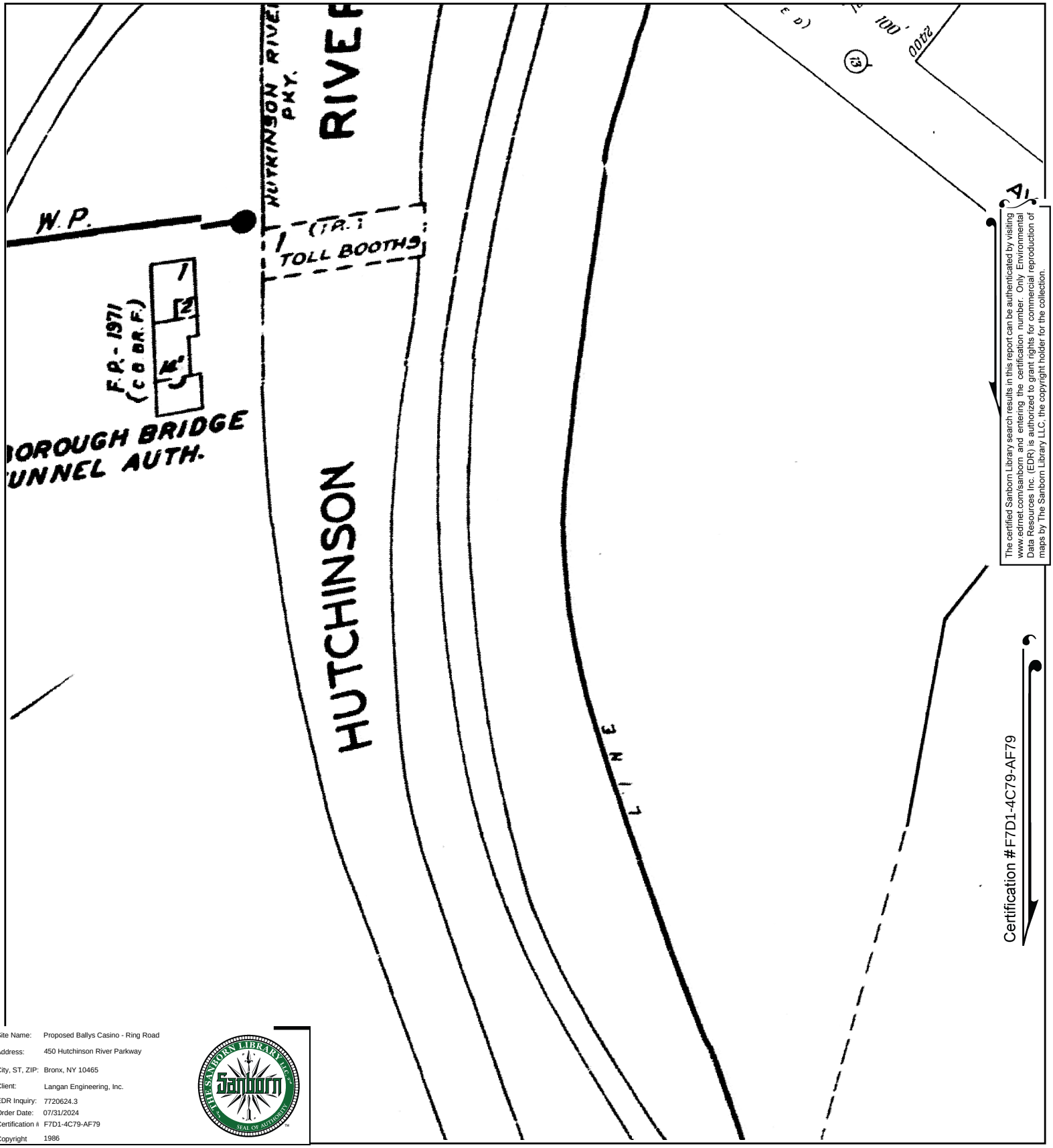

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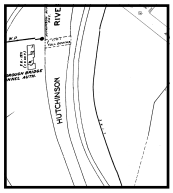

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1983

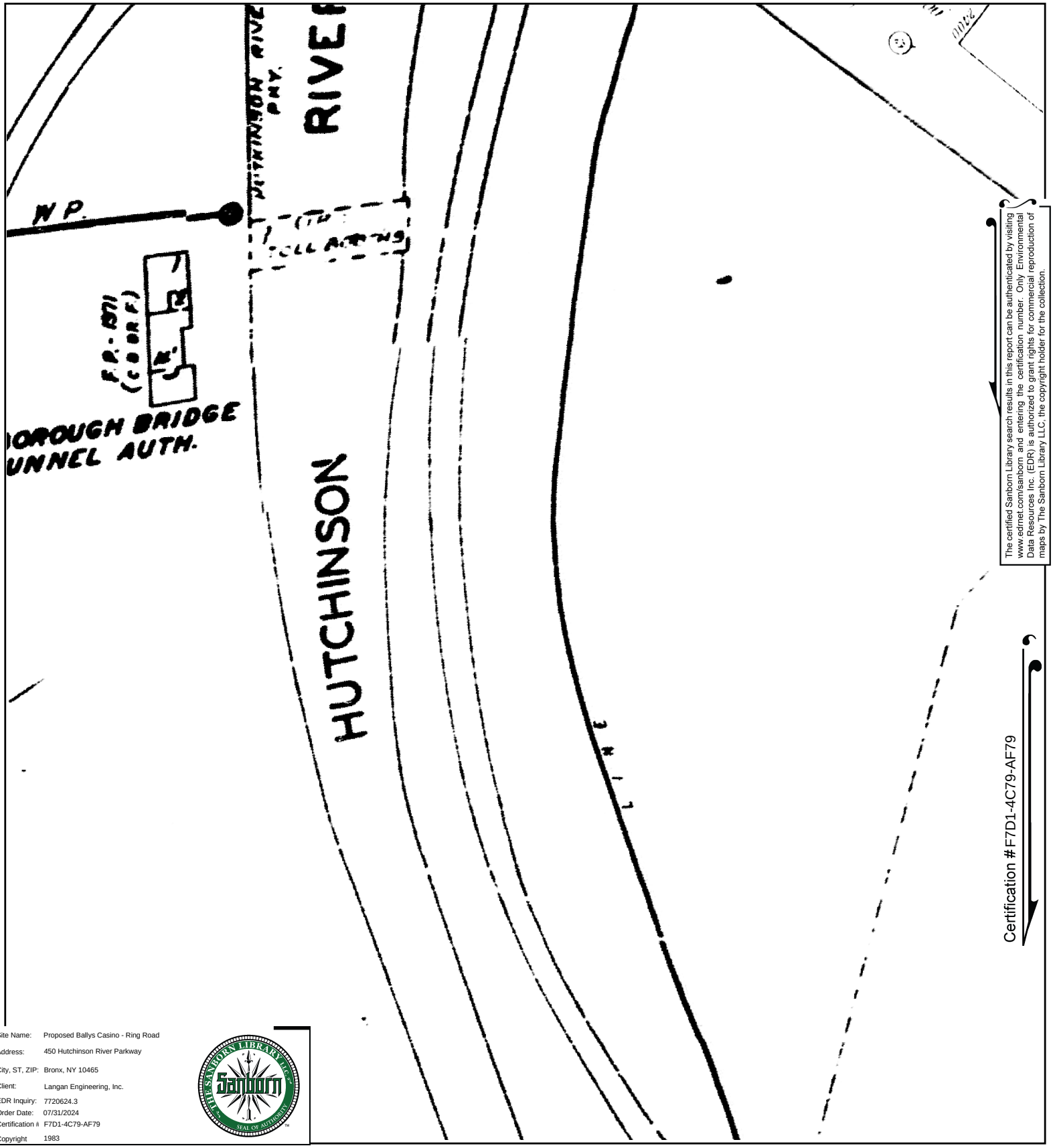

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Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1983

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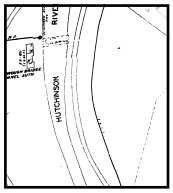

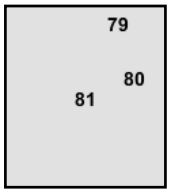

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1981

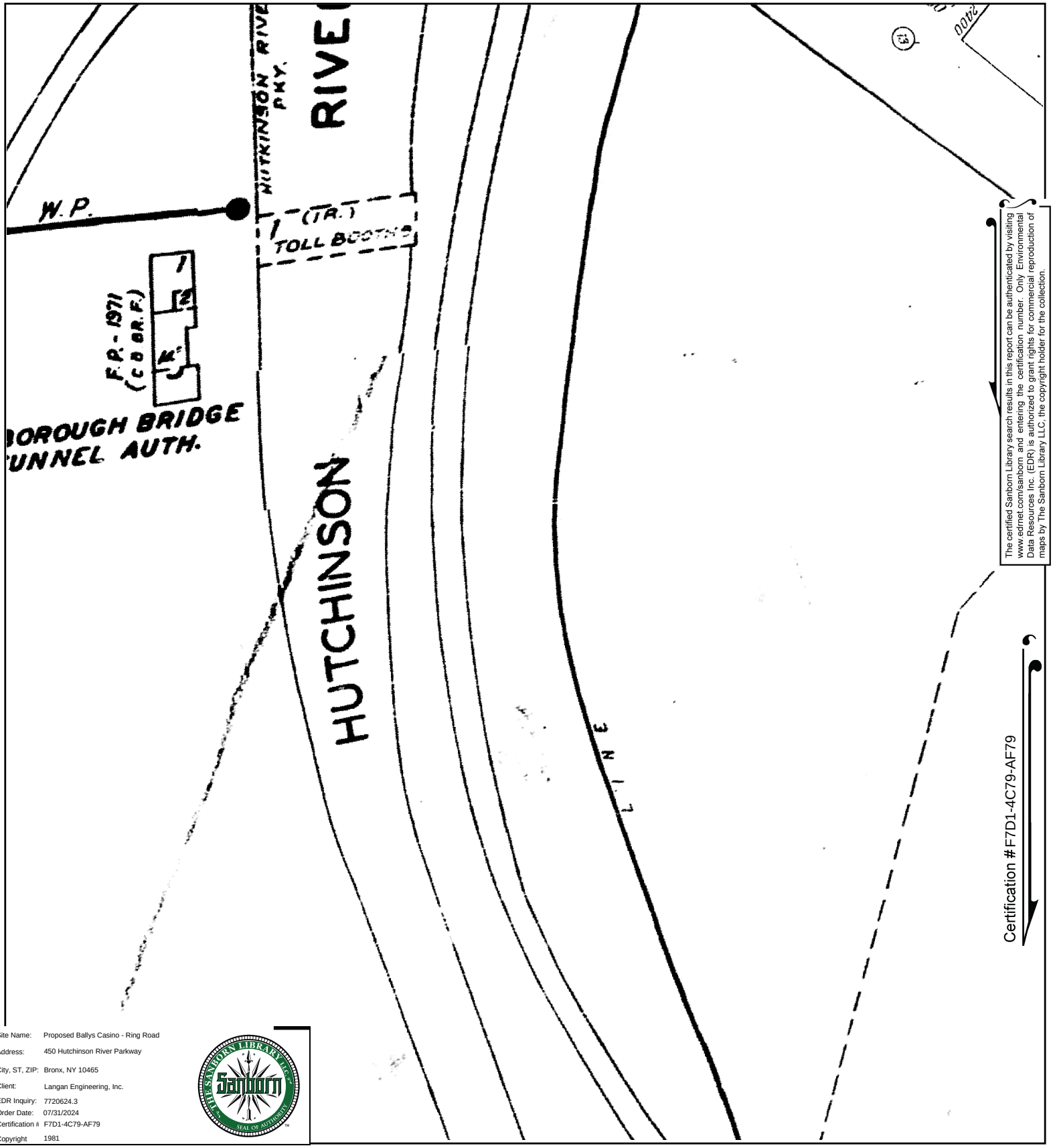

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Certification #	F7D1-4C79-AF79
Copyright	1981

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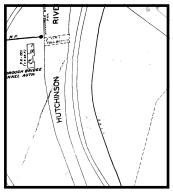

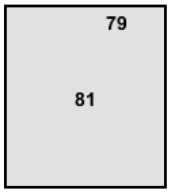

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1978

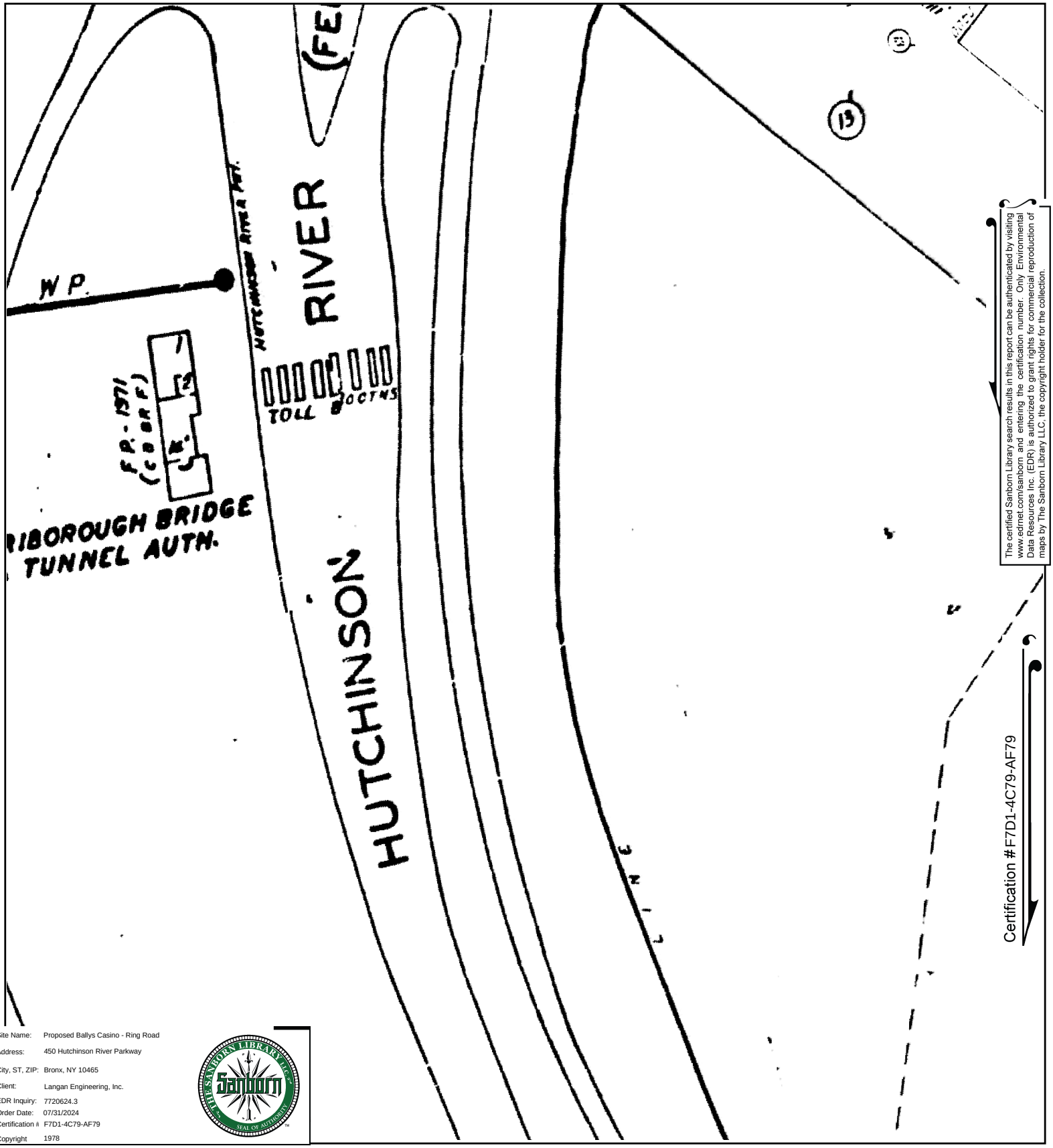

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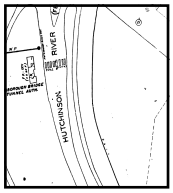

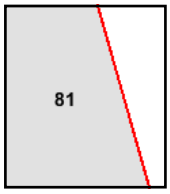

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1977

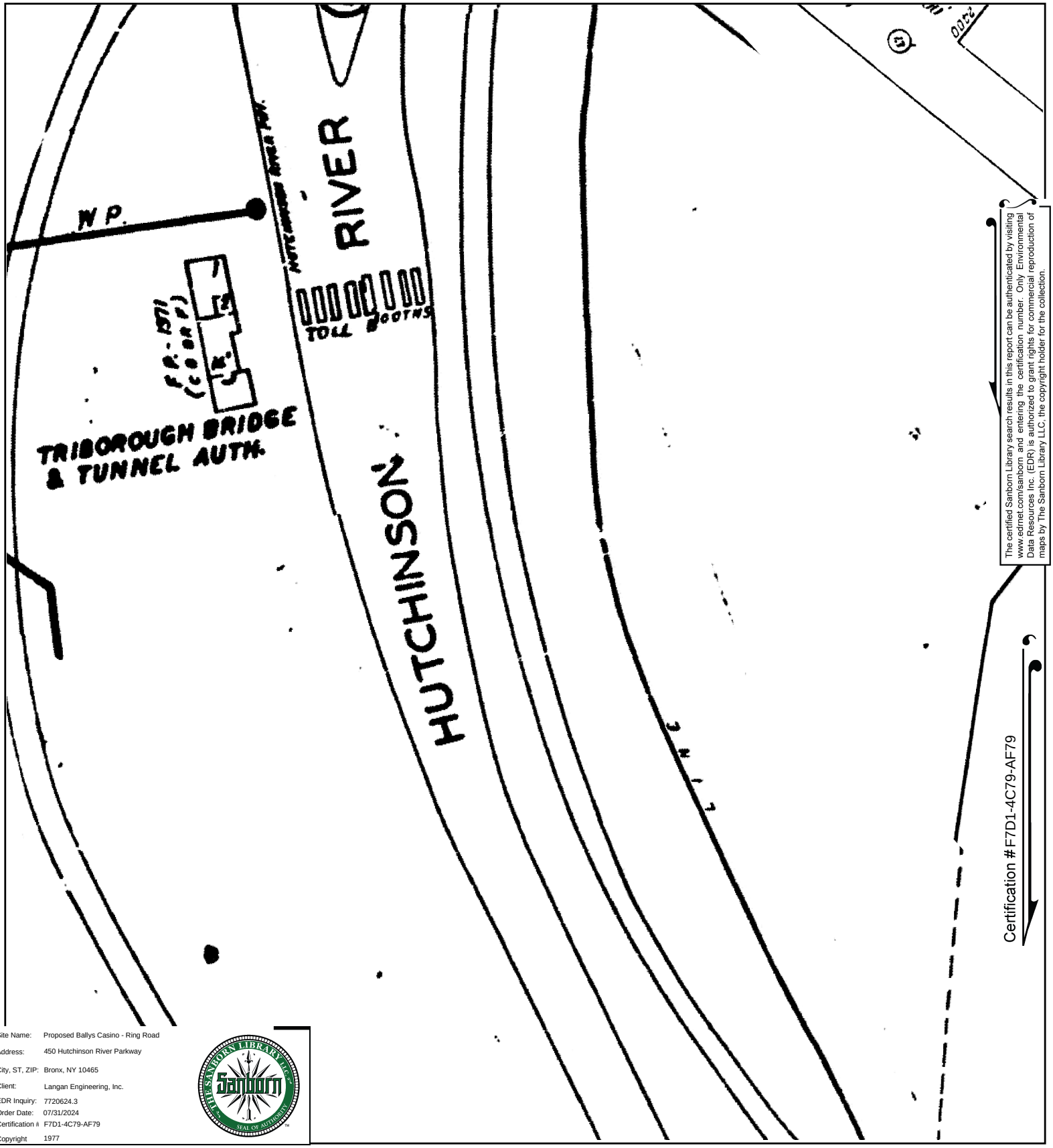

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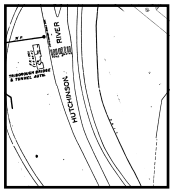

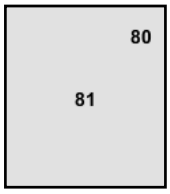

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1967

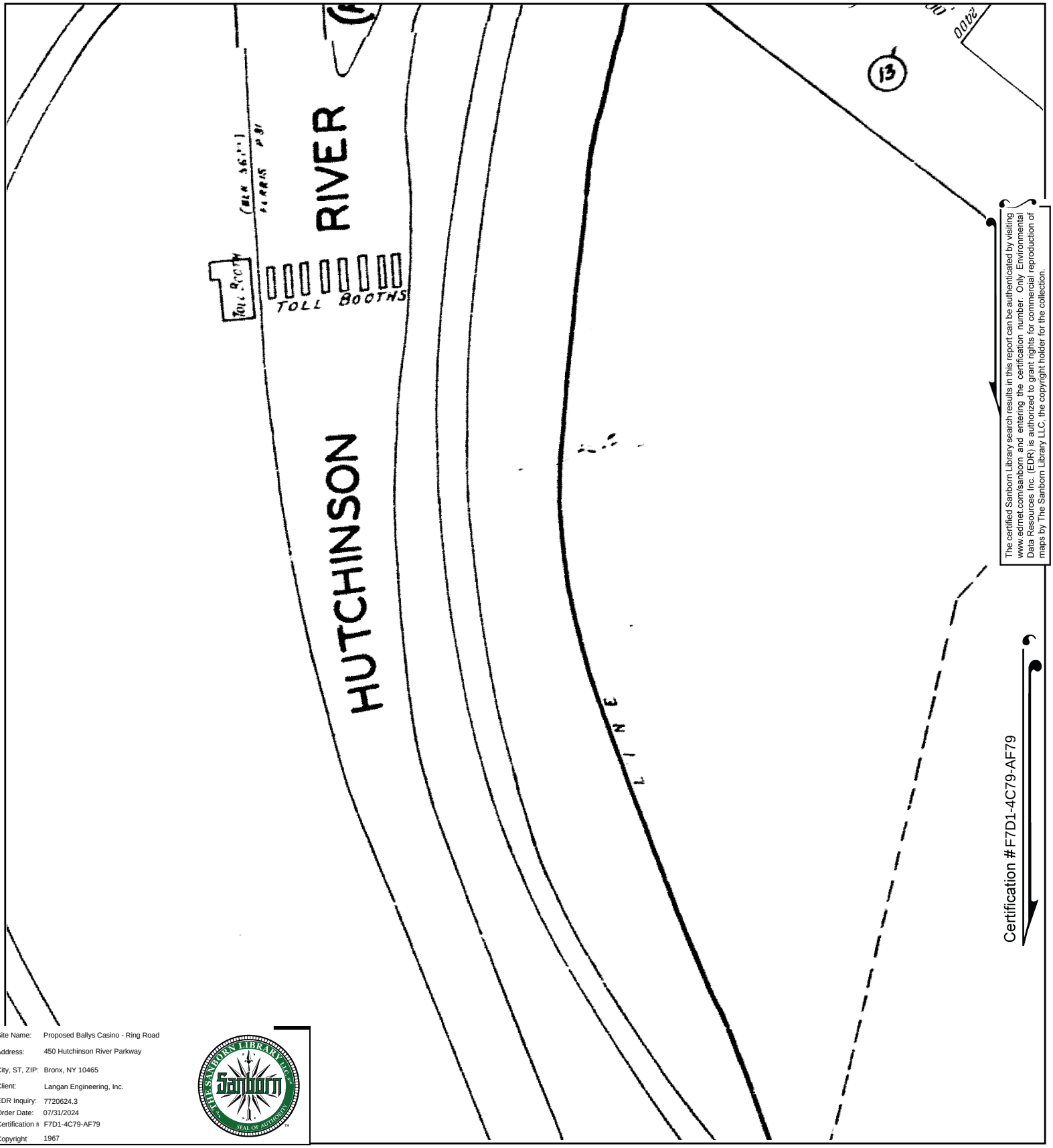

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Copyright	1967

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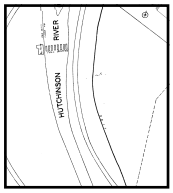

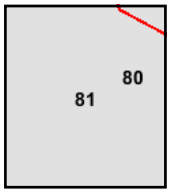

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1950

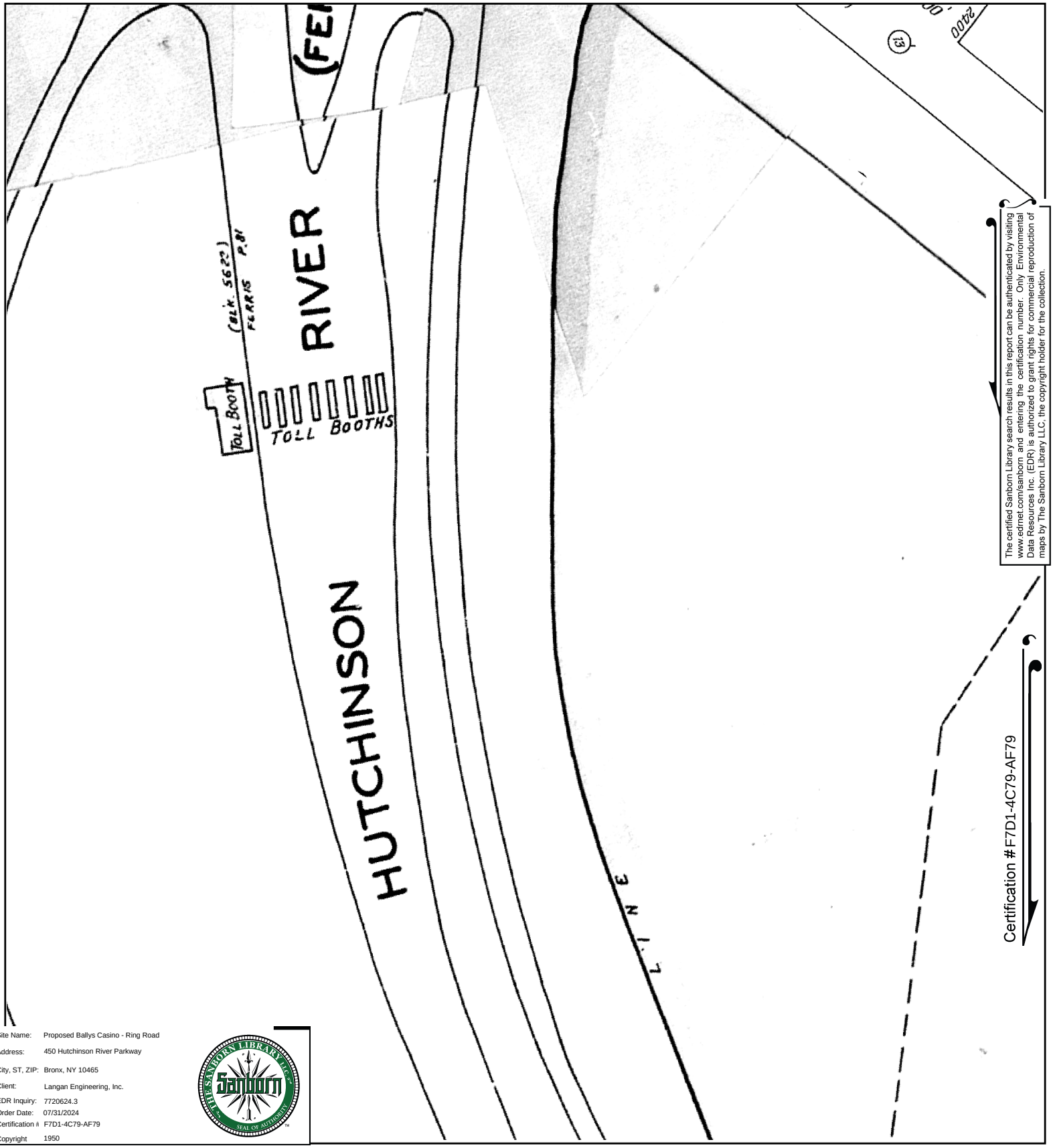

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Copyright	1950

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1930

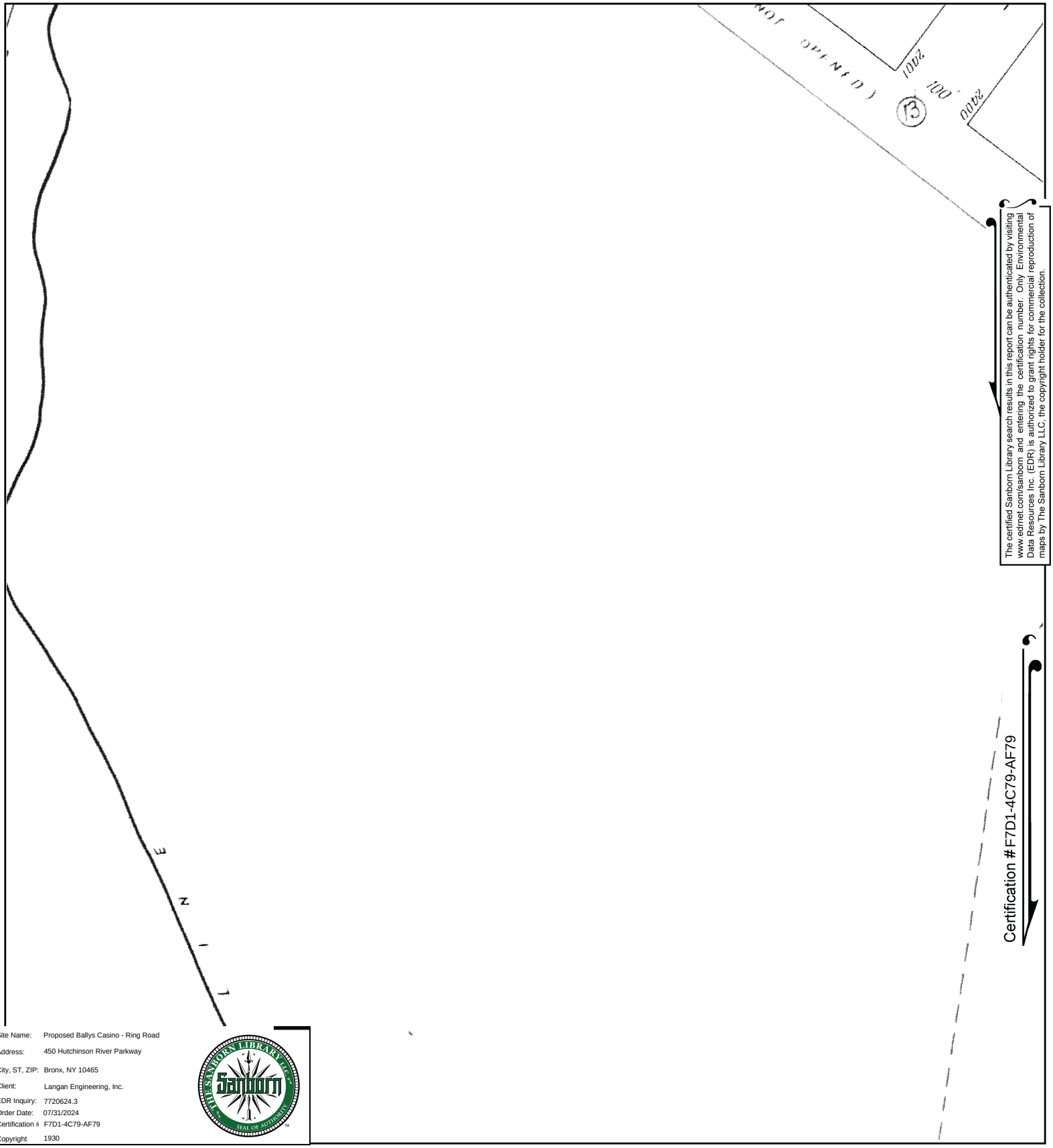

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Copyright	1930

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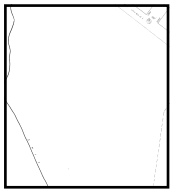

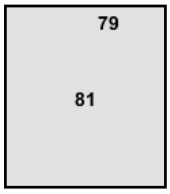

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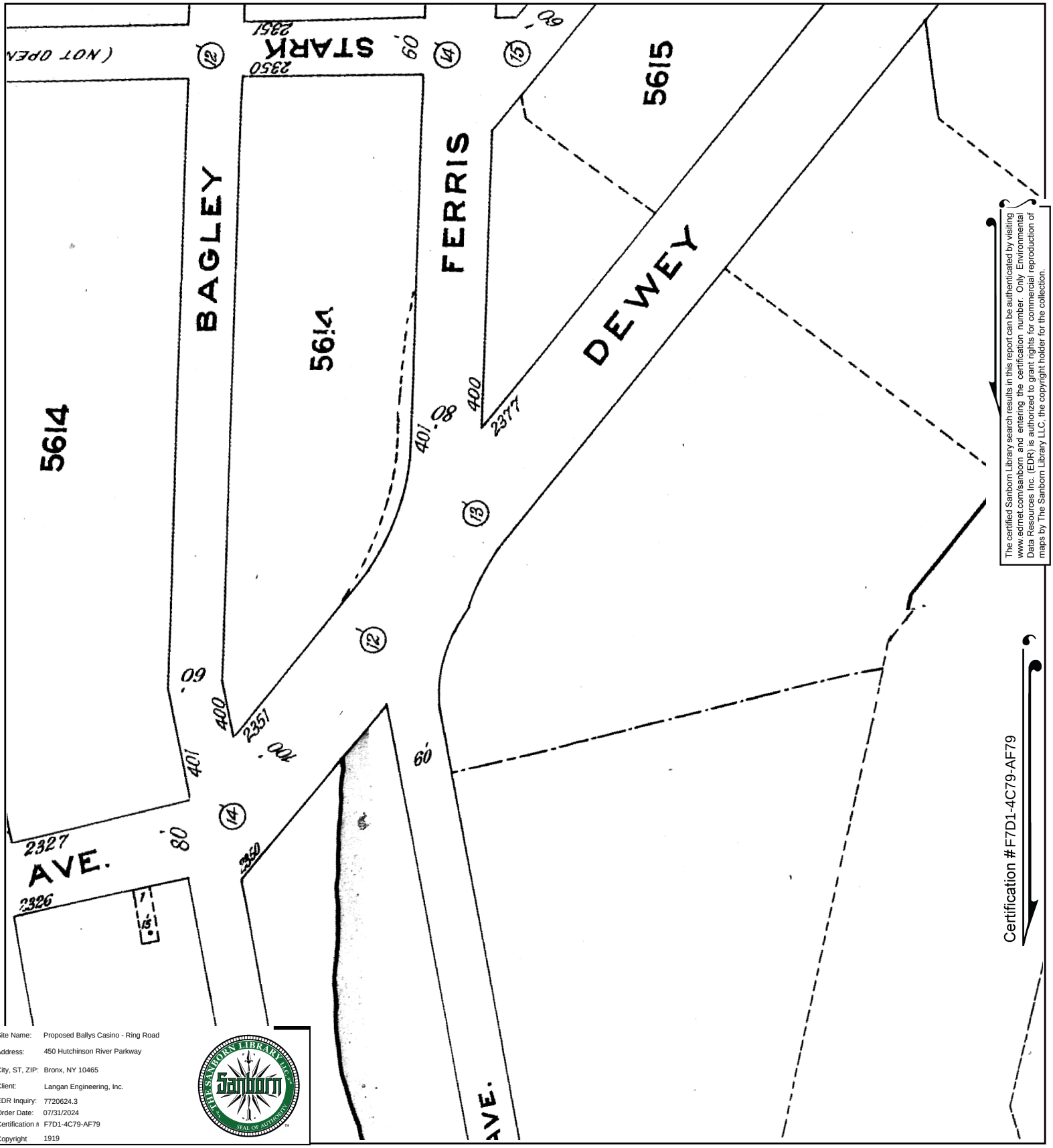

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1919

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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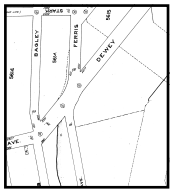

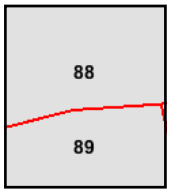

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N

Certified Sanborn® Map

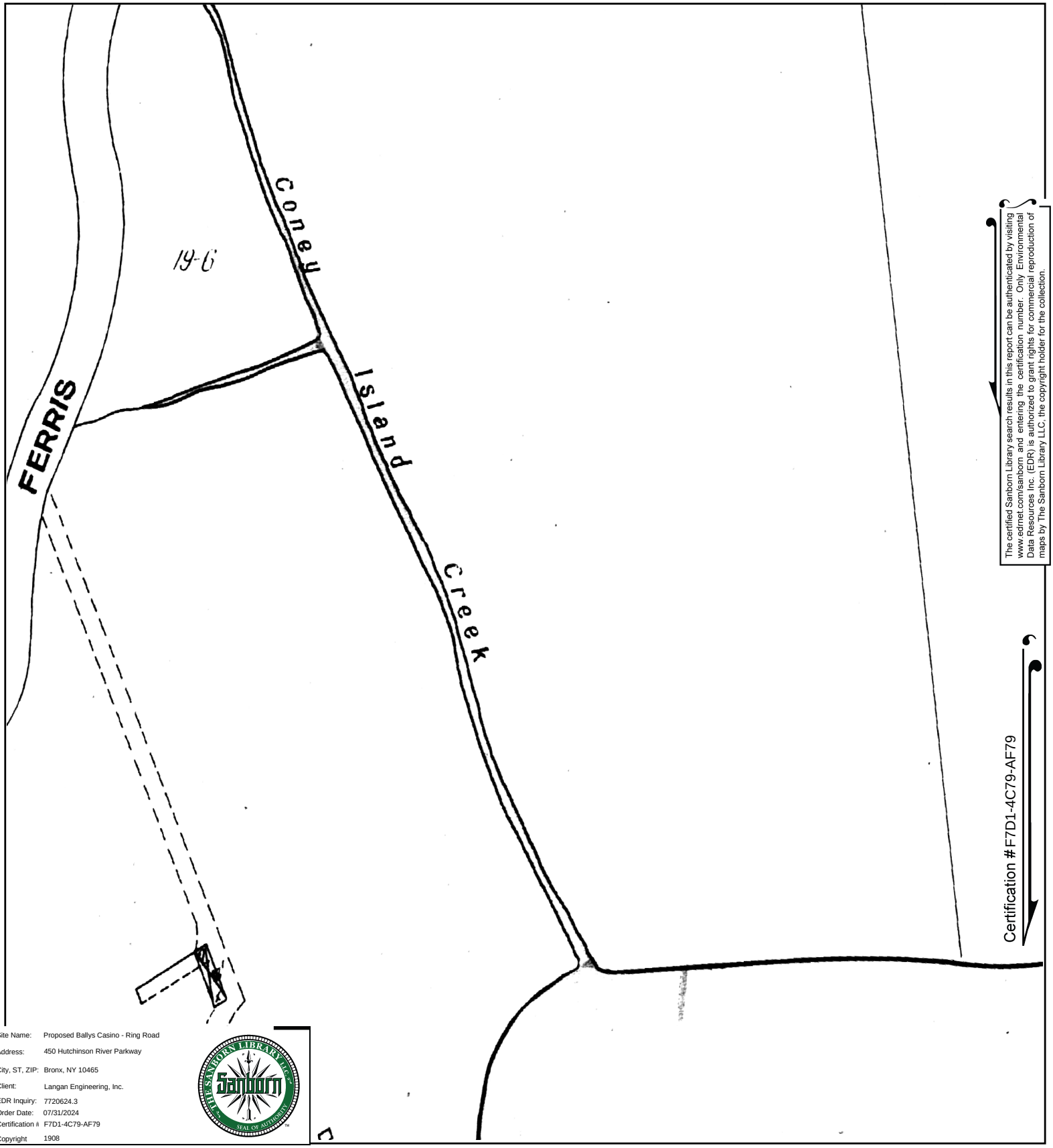

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1908

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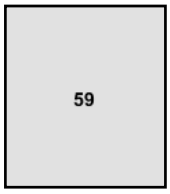

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N

Certified Sanborn® Map

1898

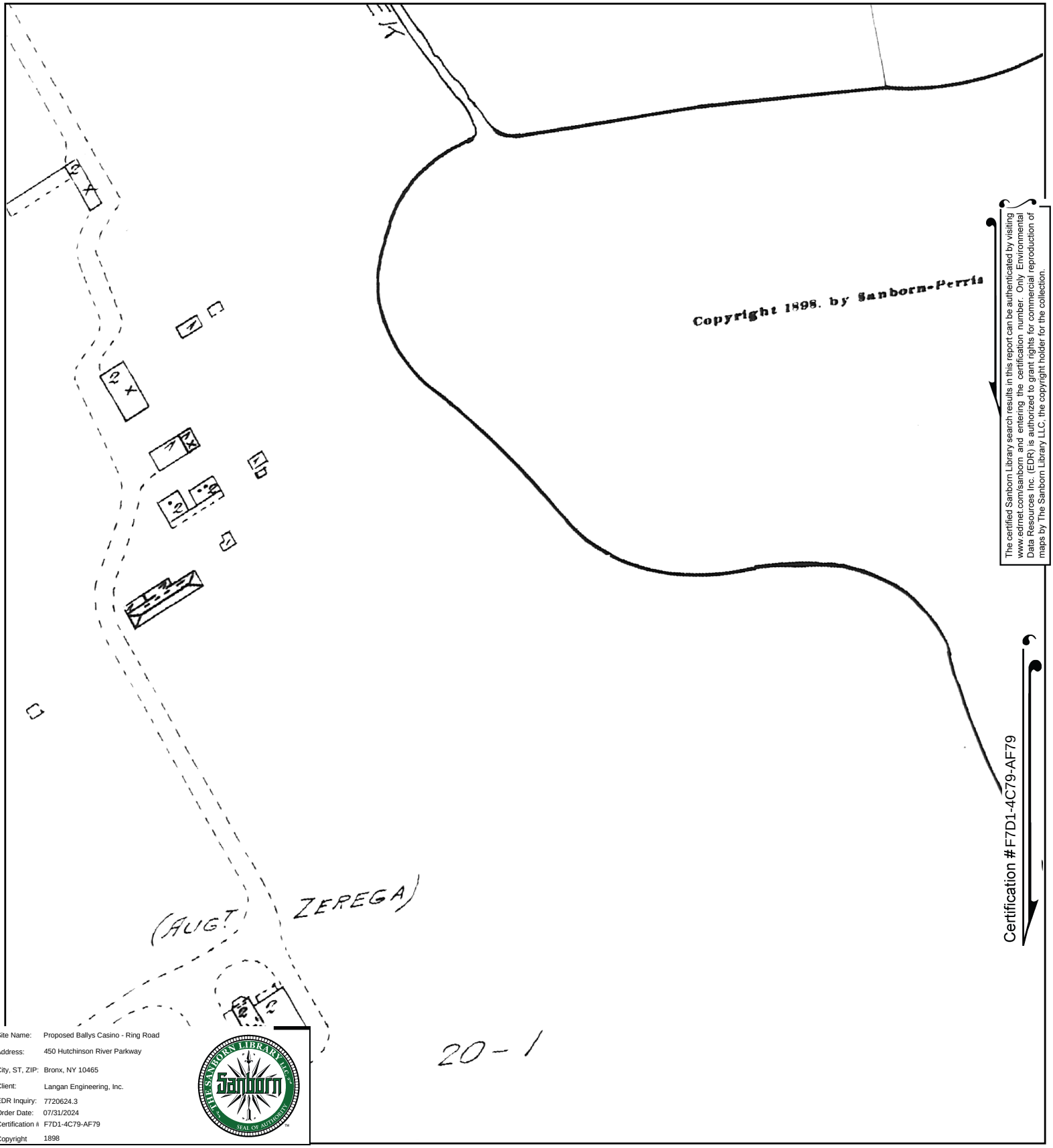

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Certification #F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1898

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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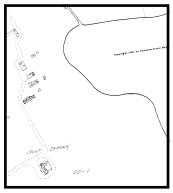

59

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N

Proposed Ballys Casino - Ring Road

450 Hutchinson River Parkway

Bronx, NY 10465

Inquiry Number: 7720624.3

July 31, 2024

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

07/31/24

Site Name:	Client Name:
Proposed Ballys Casino - Ring	Langan Engineering, Inc.
450 Hutchinson River Parkway	360 W. 31st Street
Bronx, NY 10465	New York, NY 10001
EDR Inquiry # 7720624.3	Contact: Kaitlyn Gioia

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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # F7D1-4C79-AF79

PO # 170773001

Project Prpsd Bally s Casino - Ring Rd

Maps Provided:

2007	1996	1981	1898
2006	1995	1978	
2005	1993	1977	
2004	1992	1967	
2003	1991	1950	
2002	1988	1930	
2001	1986	1919	
1998	1983	1908	

Sanborn® Library search results

Certification #: F7D1-4C79-AF79

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- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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Sanborn Sheet Key

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2007 Source Sheets

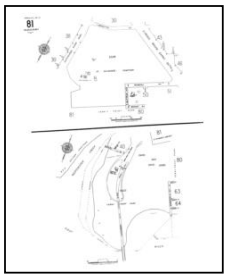

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2007

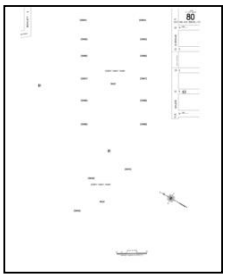

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2007

2006 Source Sheets

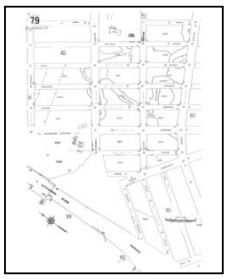

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2006

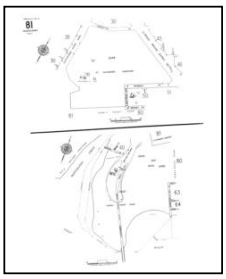

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2006

2005 Source Sheets

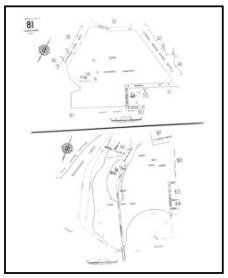

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2005

2004 Source Sheets

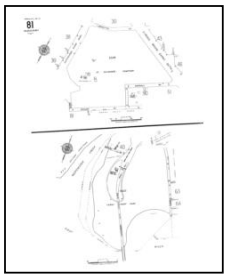

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2004

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

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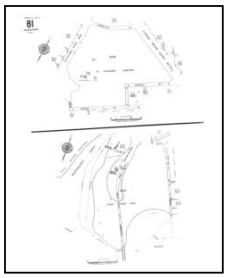

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2003

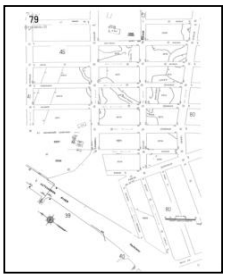

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2003

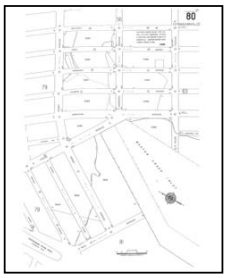

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2003

2002 Source Sheets

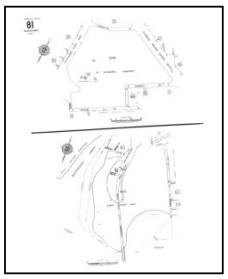

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2002

2001 Source Sheets

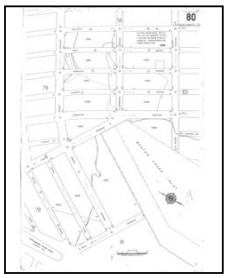

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2001

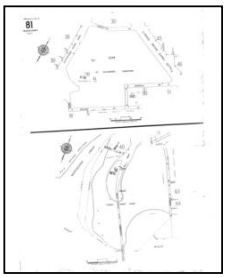

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2001

1998 Source Sheets

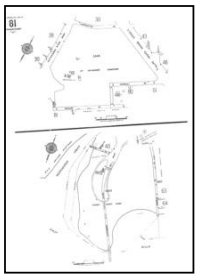

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1998

Sanborn Sheet Key

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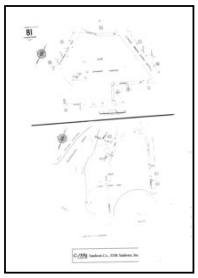

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1996

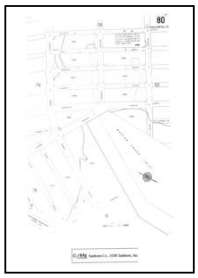

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1996

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1996

1995 Source Sheets

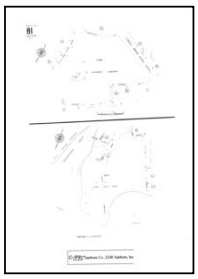

Volume 21, Sheet 81
1995

1993 Source Sheets

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1993

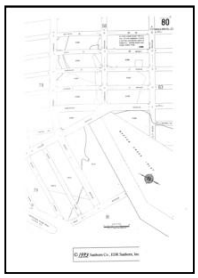

Volume 21, Sheet 80
1993

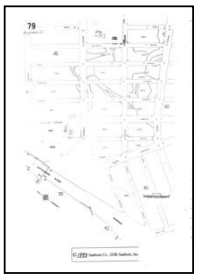

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1993

1992 Source Sheets

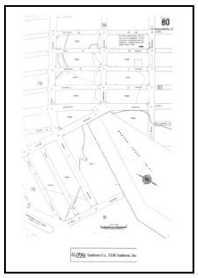

Volume 21, Sheet 80
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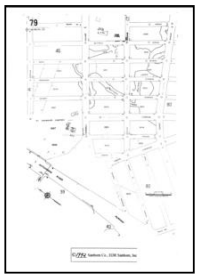

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1992

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1992

Sanborn Sheet Key

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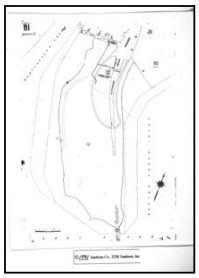

Volume 21, Sheet 81
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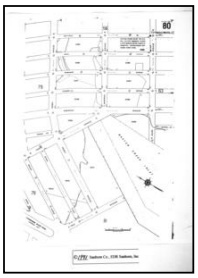

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1991

1988 Source Sheets

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1988

1986 Source Sheets

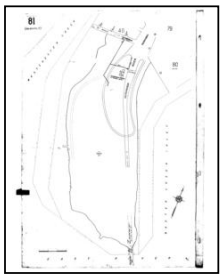

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1986

1983 Source Sheets

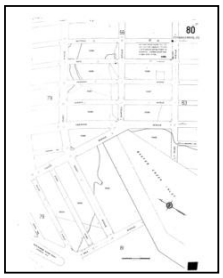

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1983

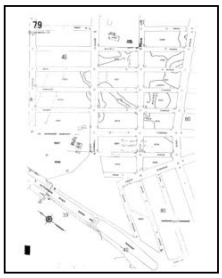

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1983

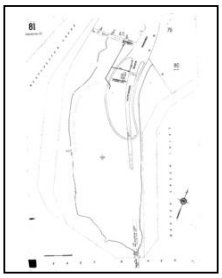

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1983

Sanborn Sheet Key

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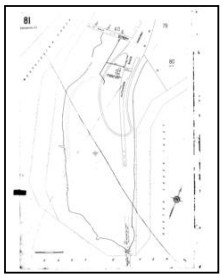

Volume 21, Sheet 81
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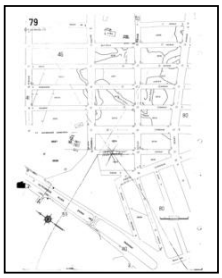

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1981

1978 Source Sheets

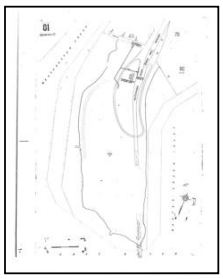

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1978

1977 Source Sheets

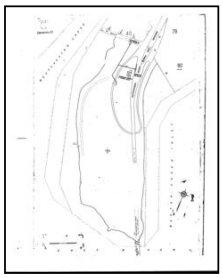

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1977

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1977

1967 Source Sheets

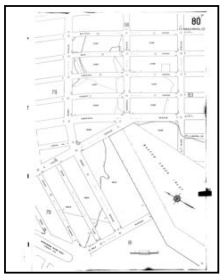

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1967

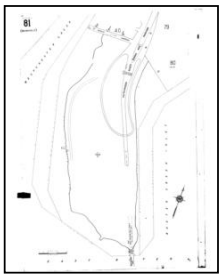

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1967

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1950 Source Sheets

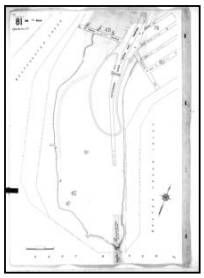

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1950

1930 Source Sheets

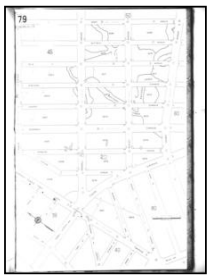

Volume 21, Sheet 79
1930

Volume 21, Sheet 81
1930

1919 Source Sheets

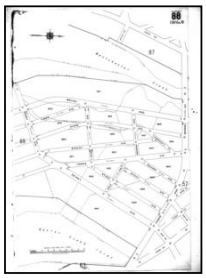

Volume 17, Sheet 88
1919

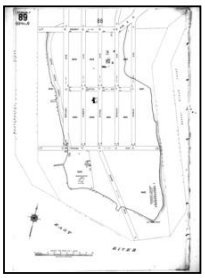

Volume 17, Sheet 89
1919

1908 Source Sheets

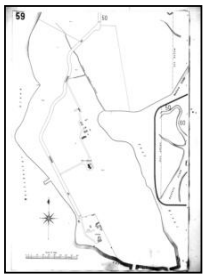

Volume A, Sheet 59
1908

Sanborn Sheet Key

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1898 Source Sheets

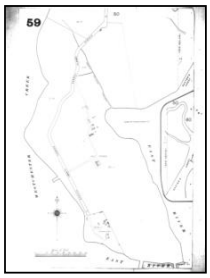

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1898

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2007

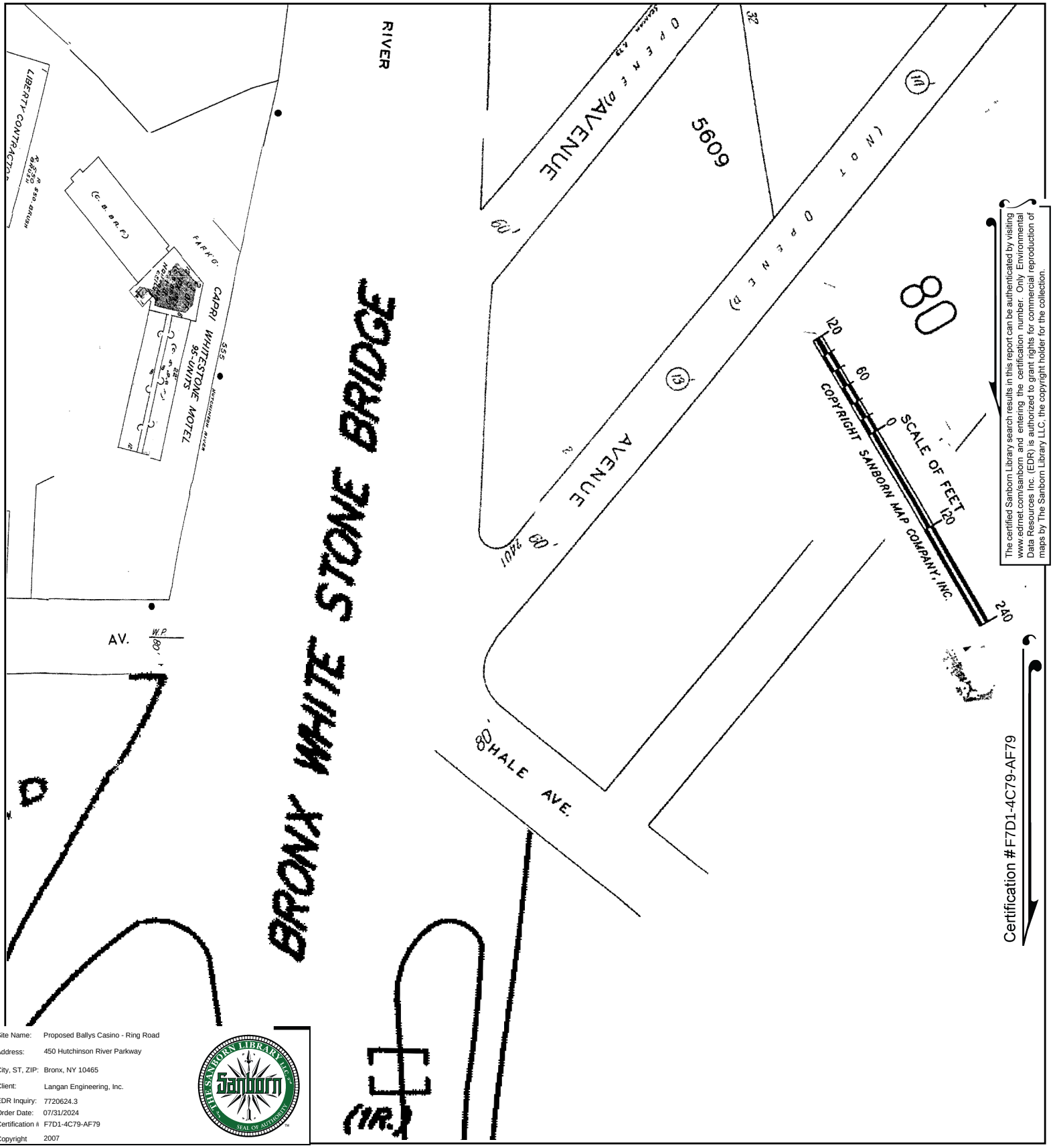

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Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
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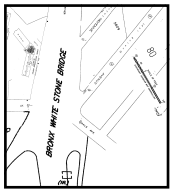

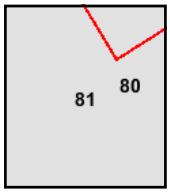

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Volume 21, Sheet 81

N

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2006

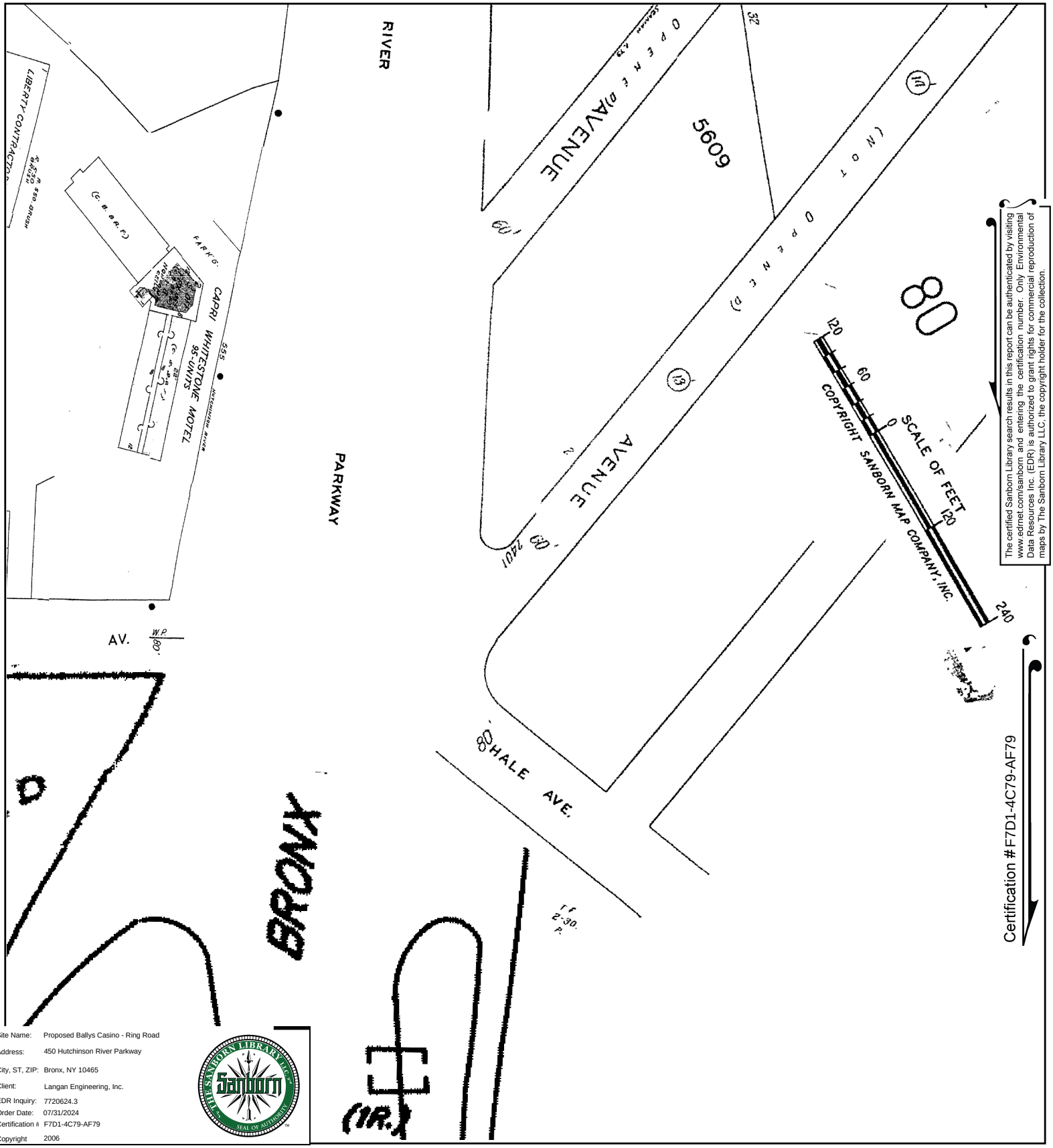

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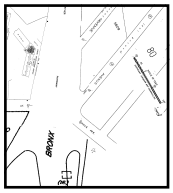

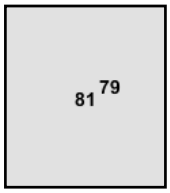

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2005

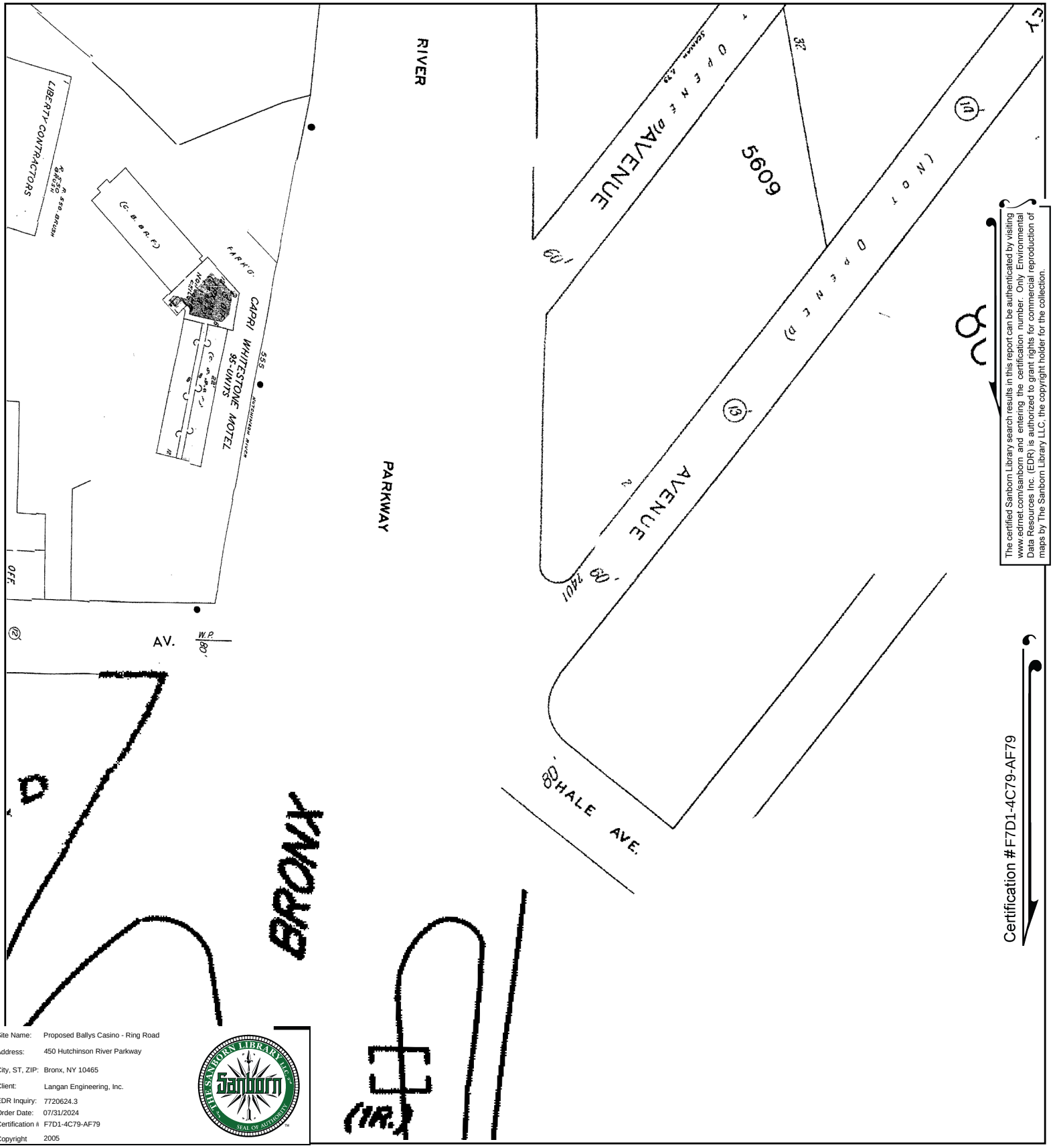

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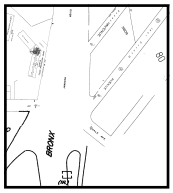

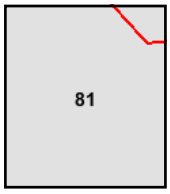

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2004

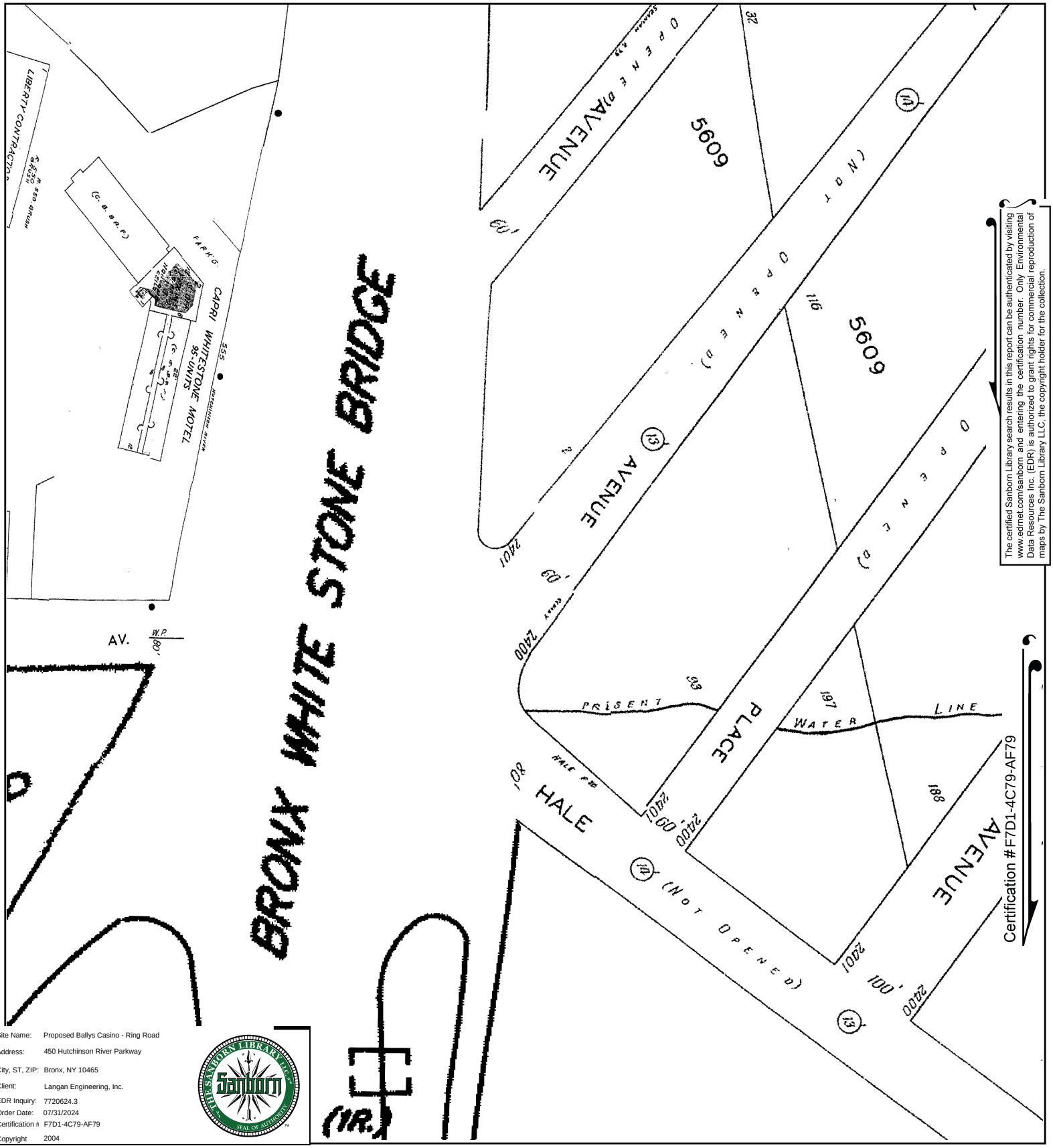

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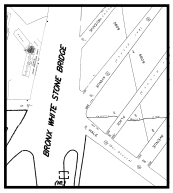

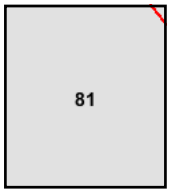

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2003

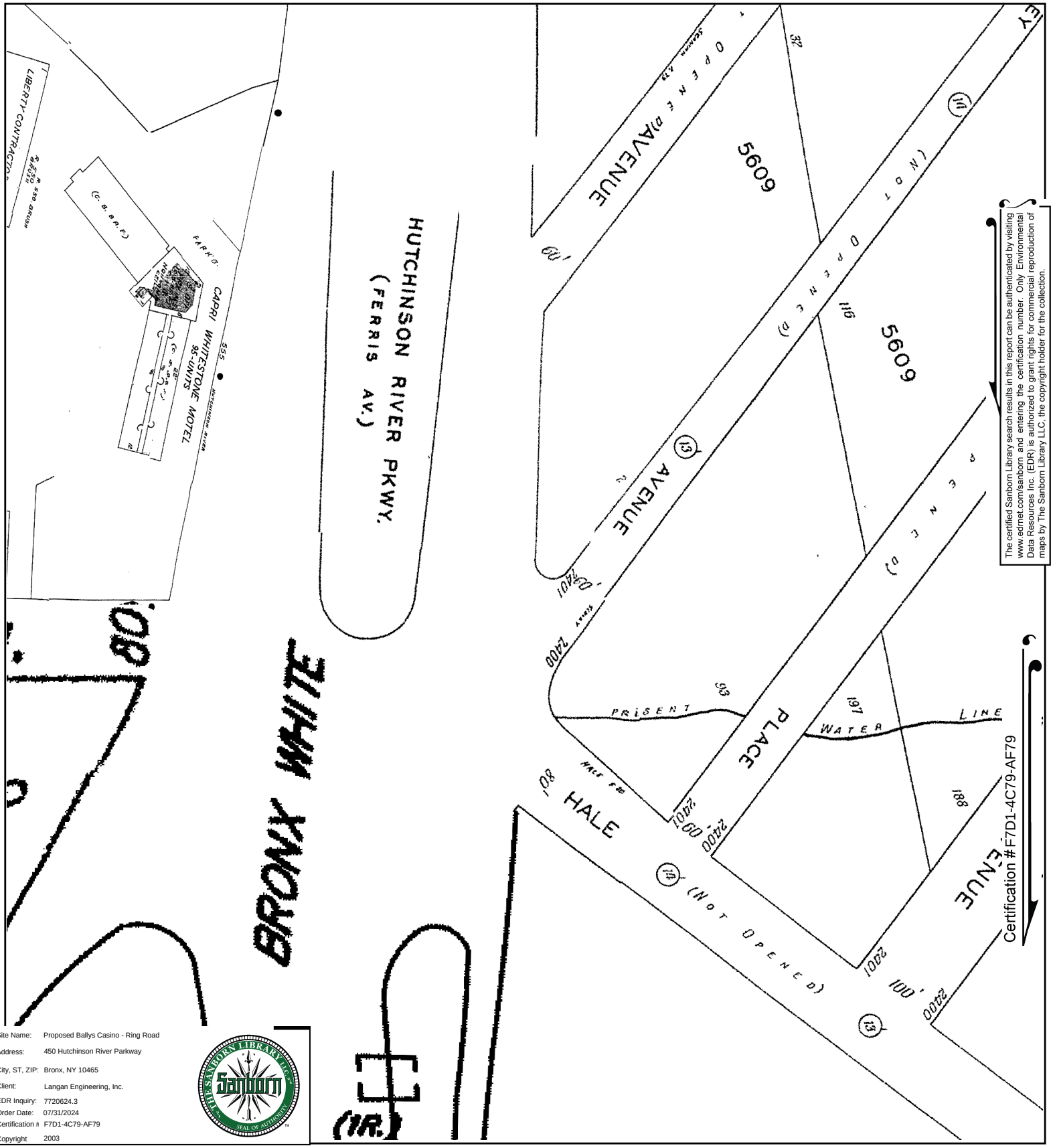

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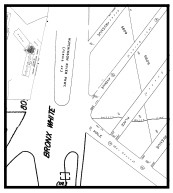

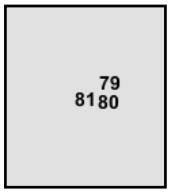

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Volume 21, Sheet 81

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2002

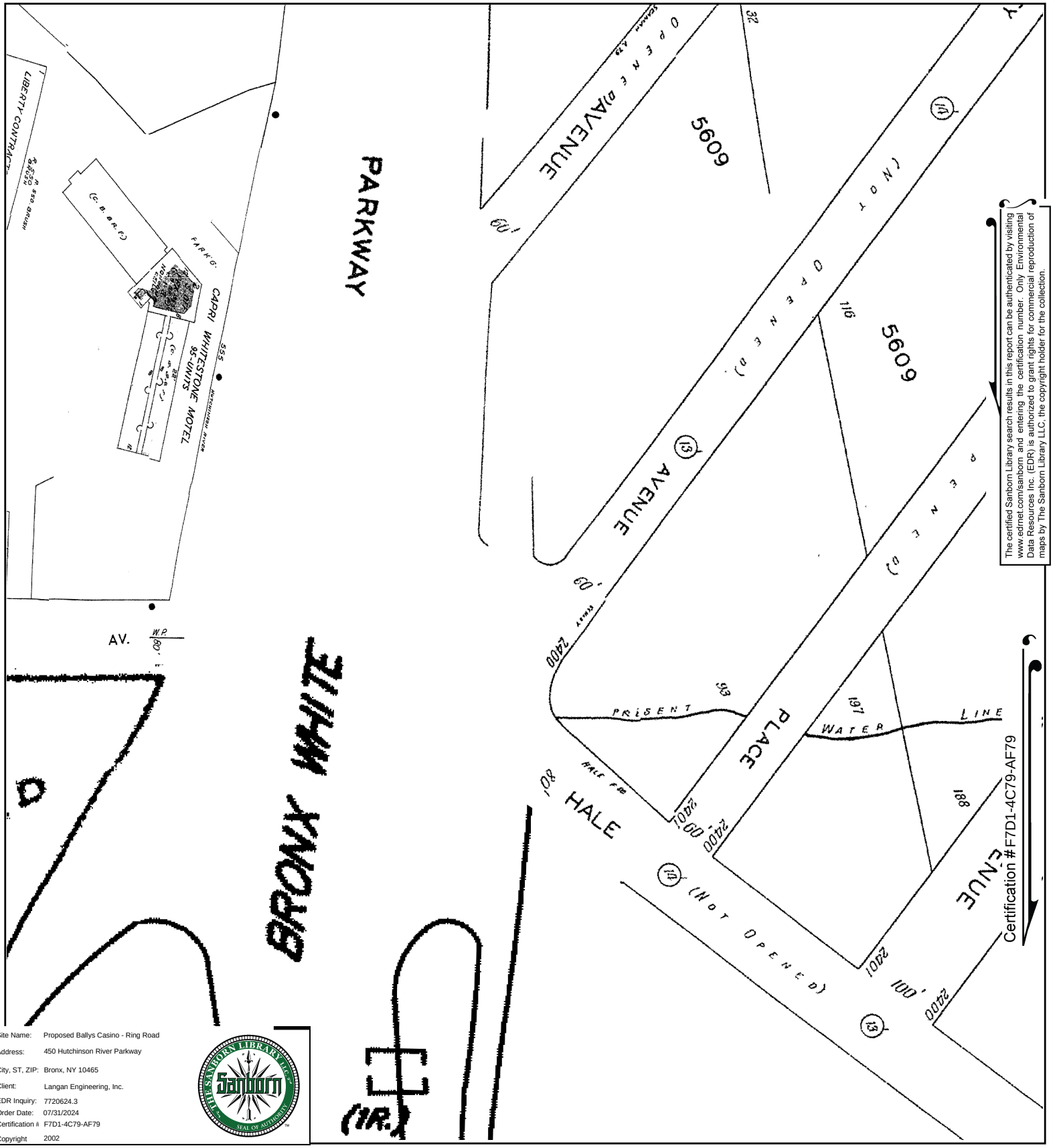

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Certification #	F7D1-4C79-AF79
Copyright	2002

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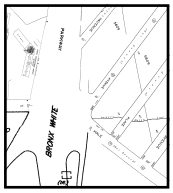

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81

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2001

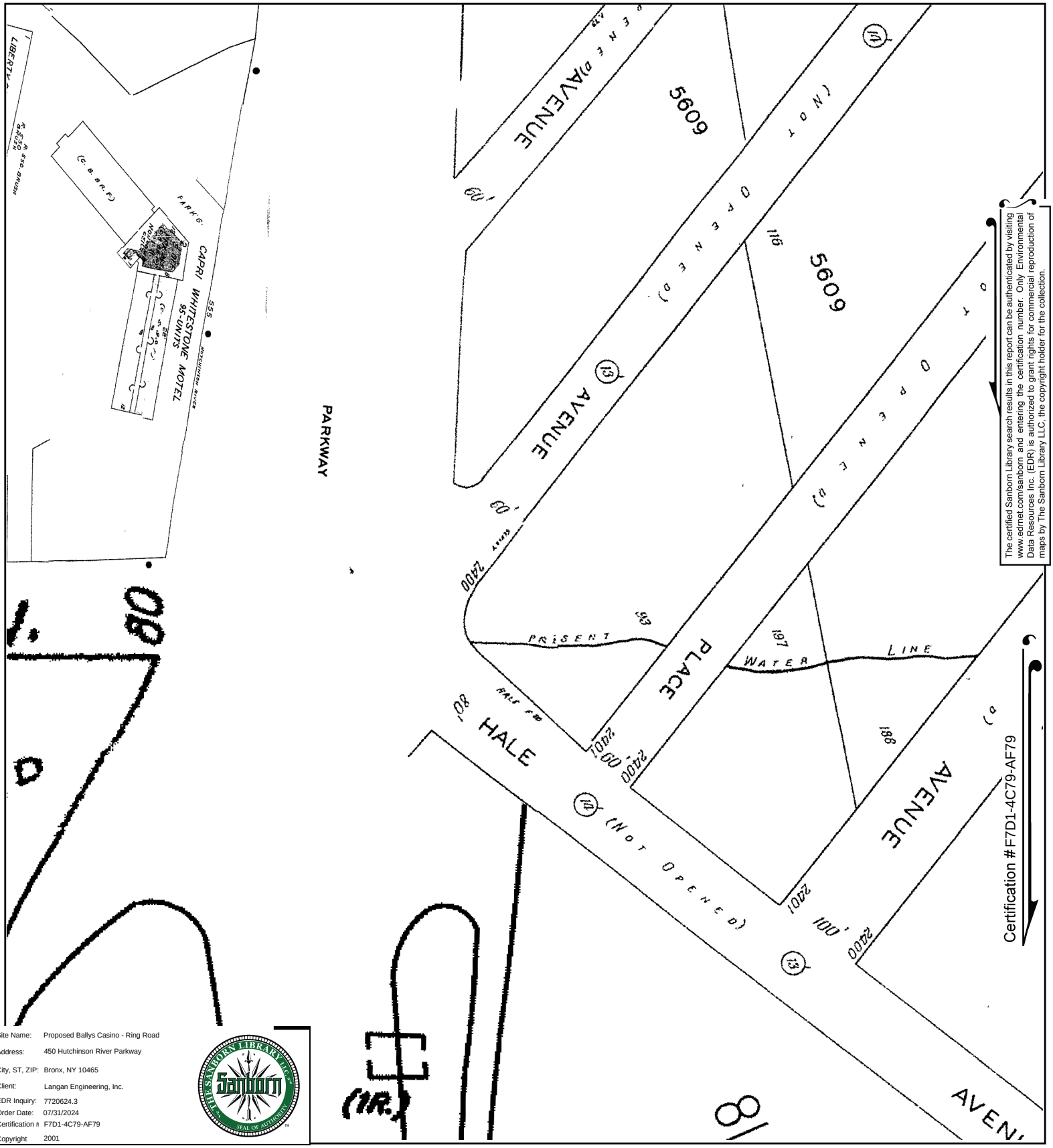

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Address:	450 Hutchinson River Parkway
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Client:	Langan Engineering, Inc.
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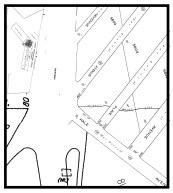

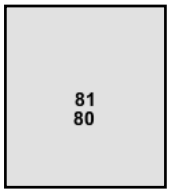

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1998

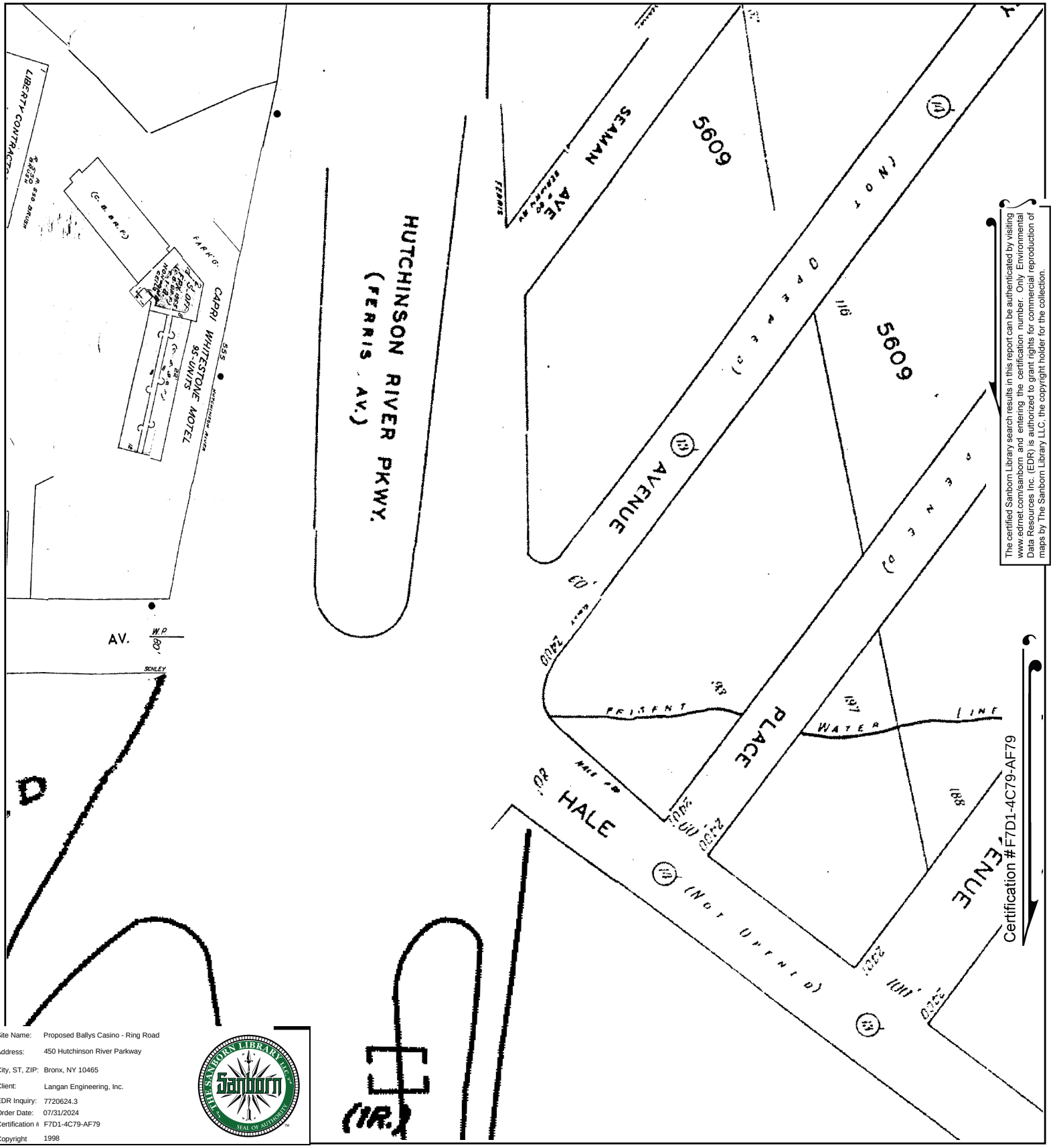

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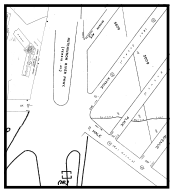

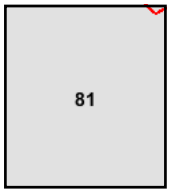

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1996

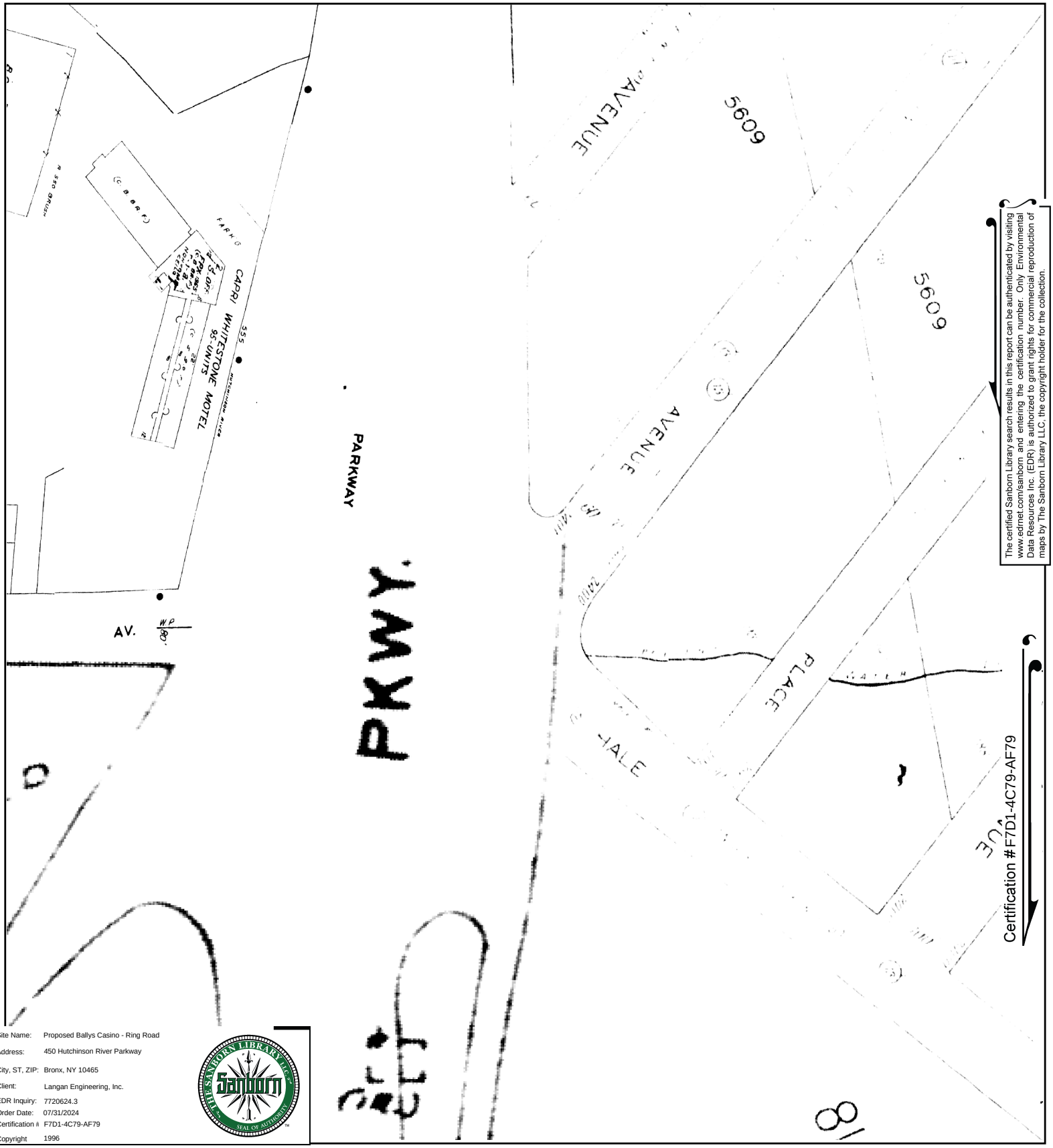

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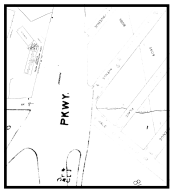

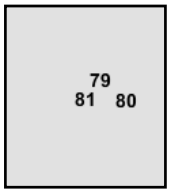

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N

Certified Sanborn® Map

1995

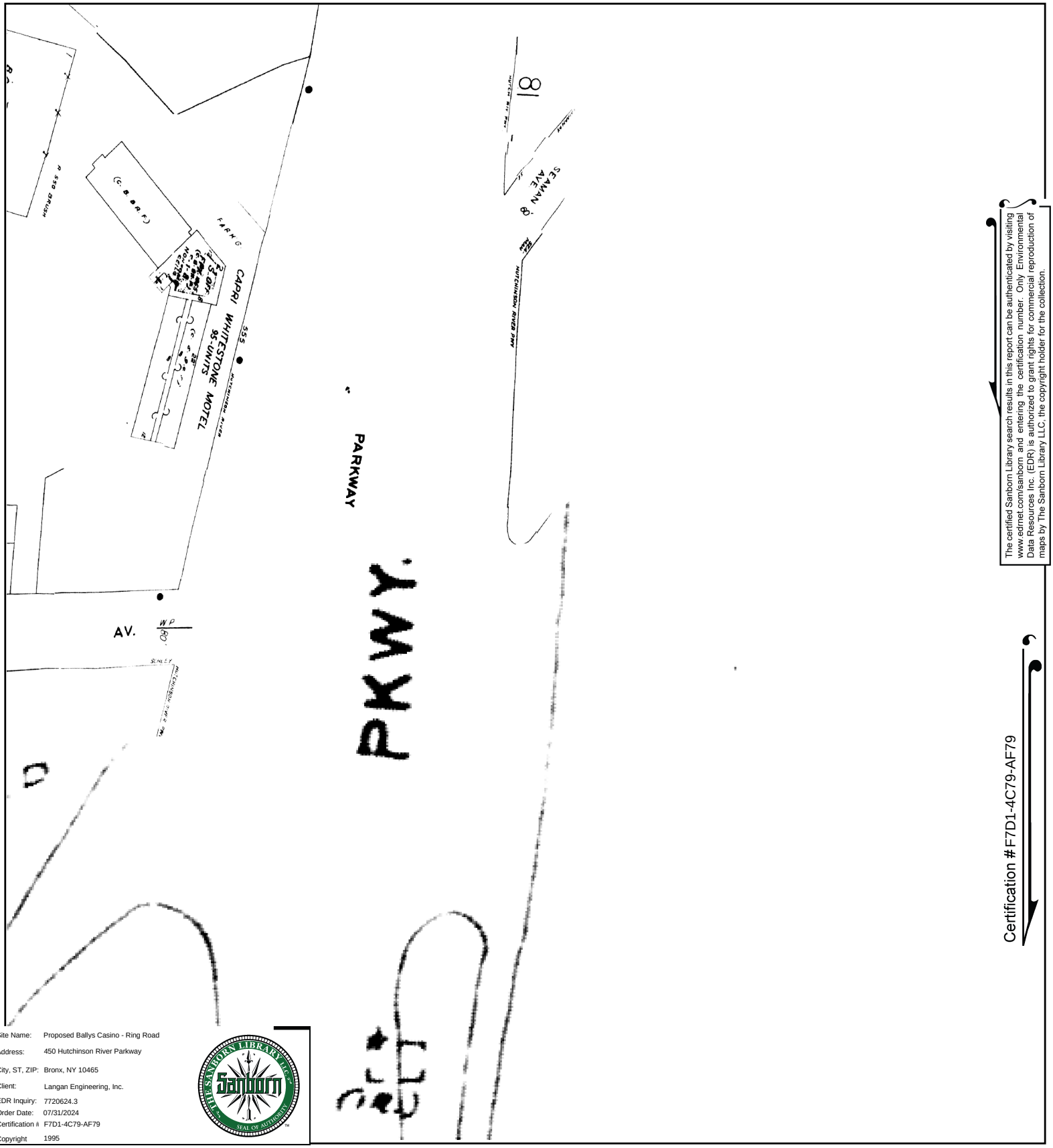

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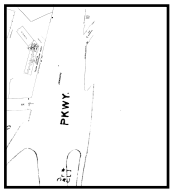

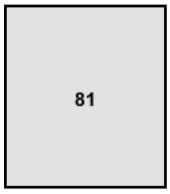

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1993

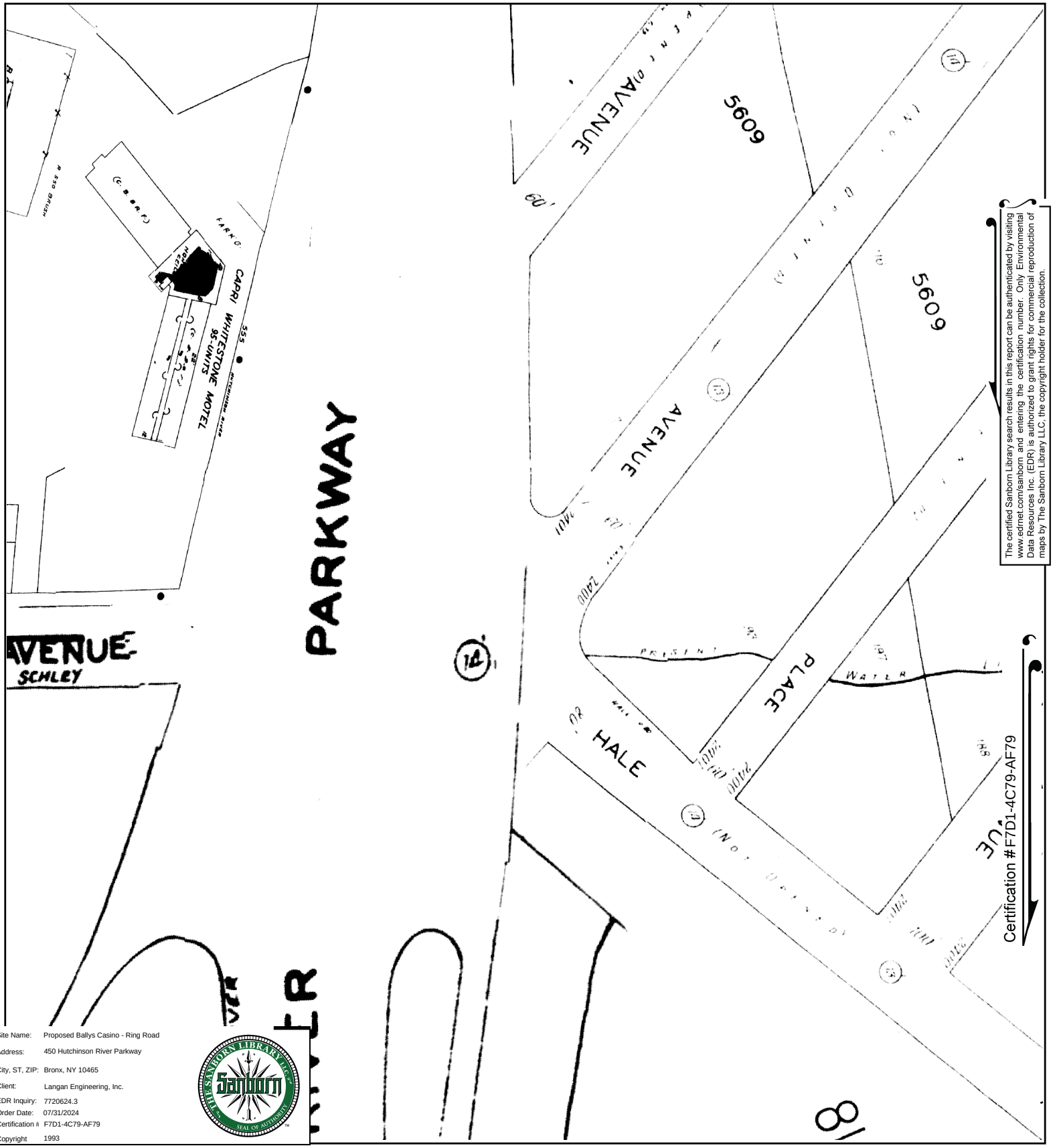

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Copyright	1993

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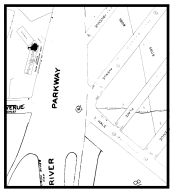

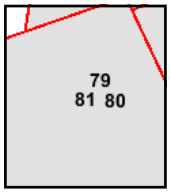

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Certified Sanborn® Map

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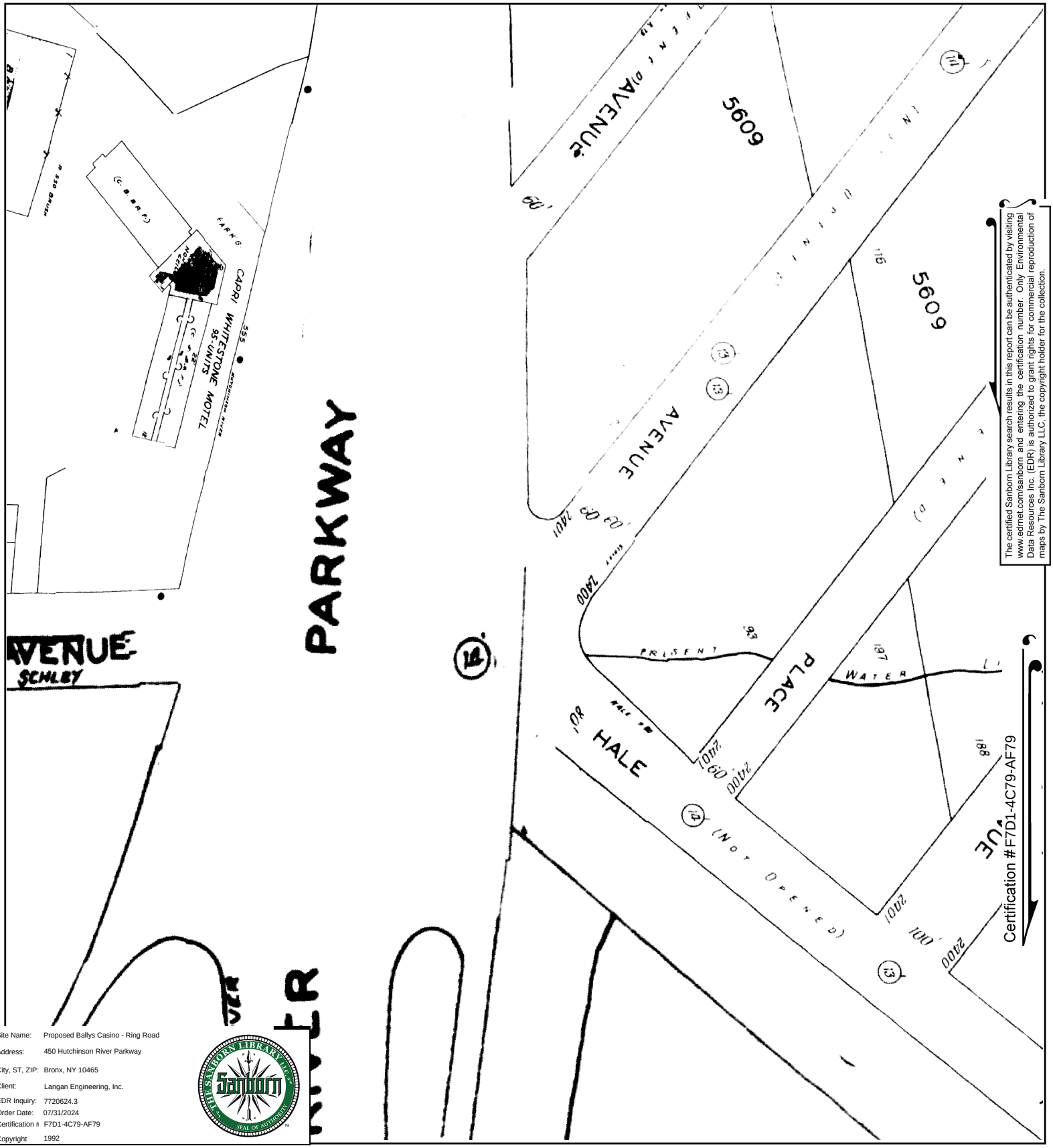

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City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
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Order Date:	07/31/2024
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Copyright	1992

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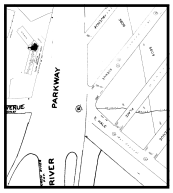

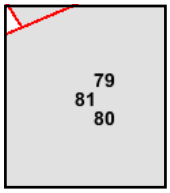

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1991

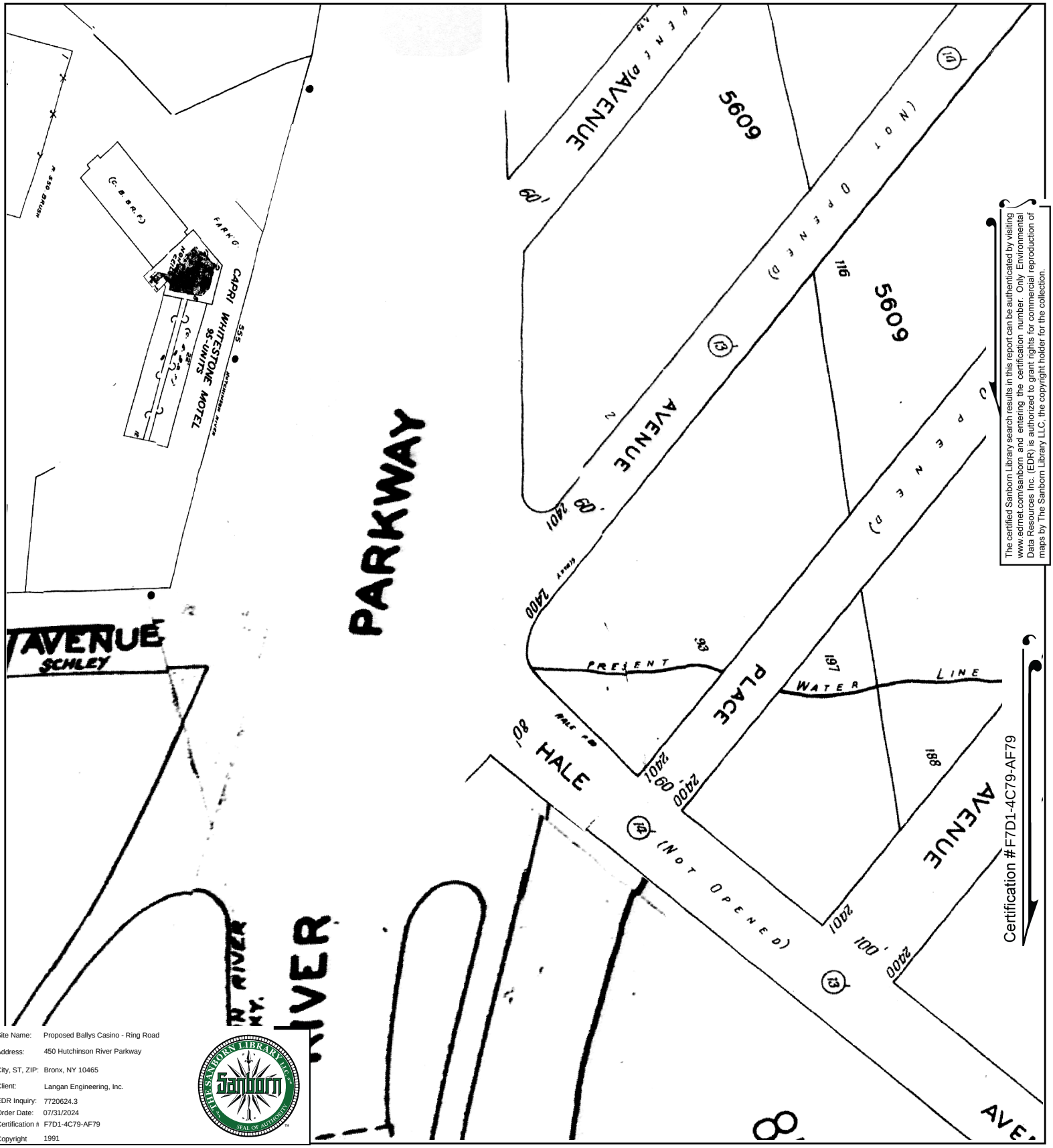

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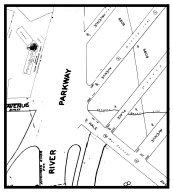

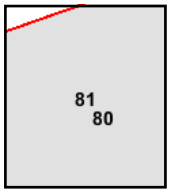

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1988

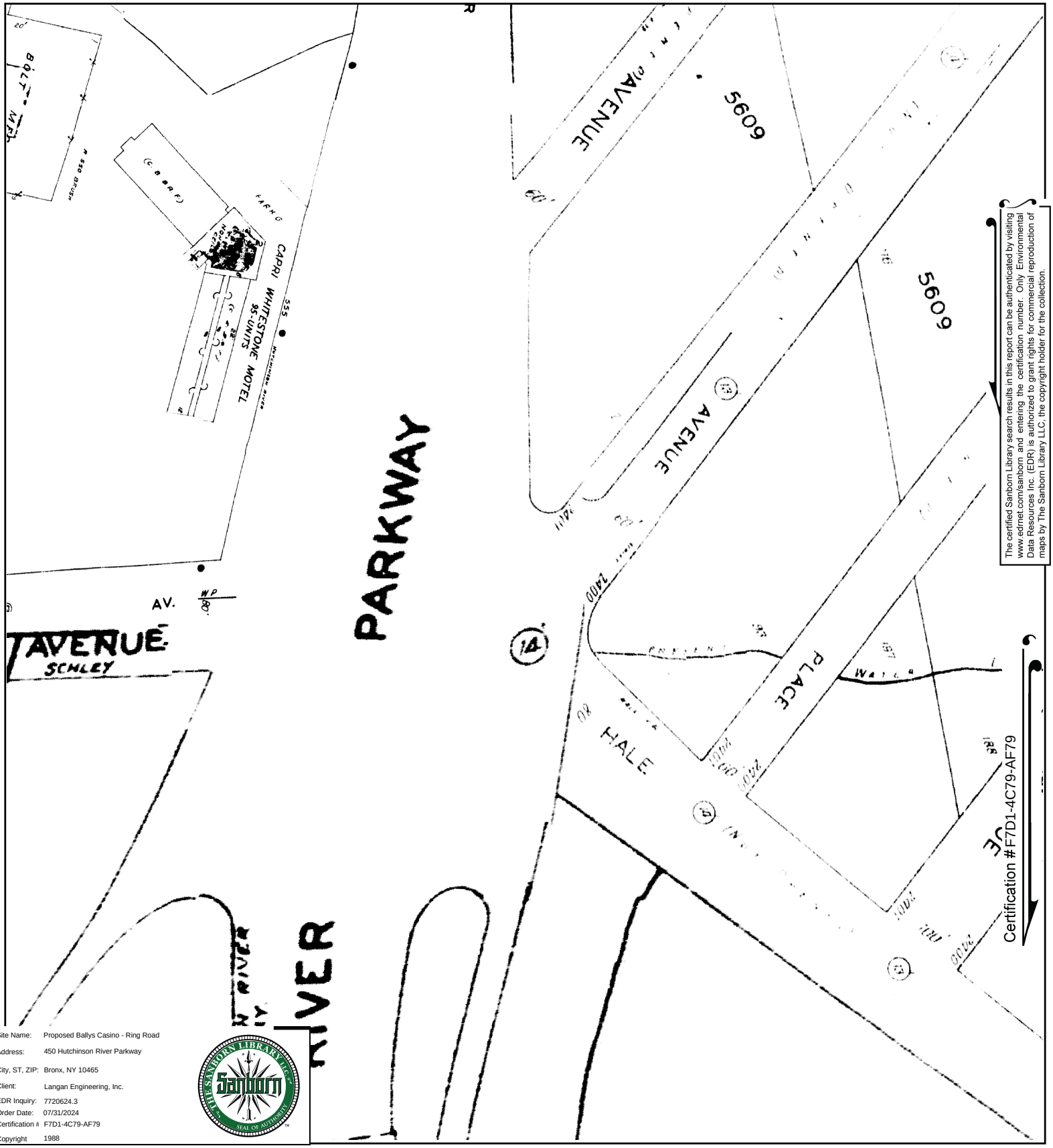

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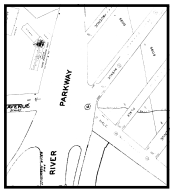

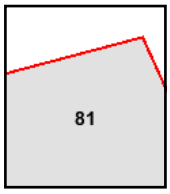

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1986

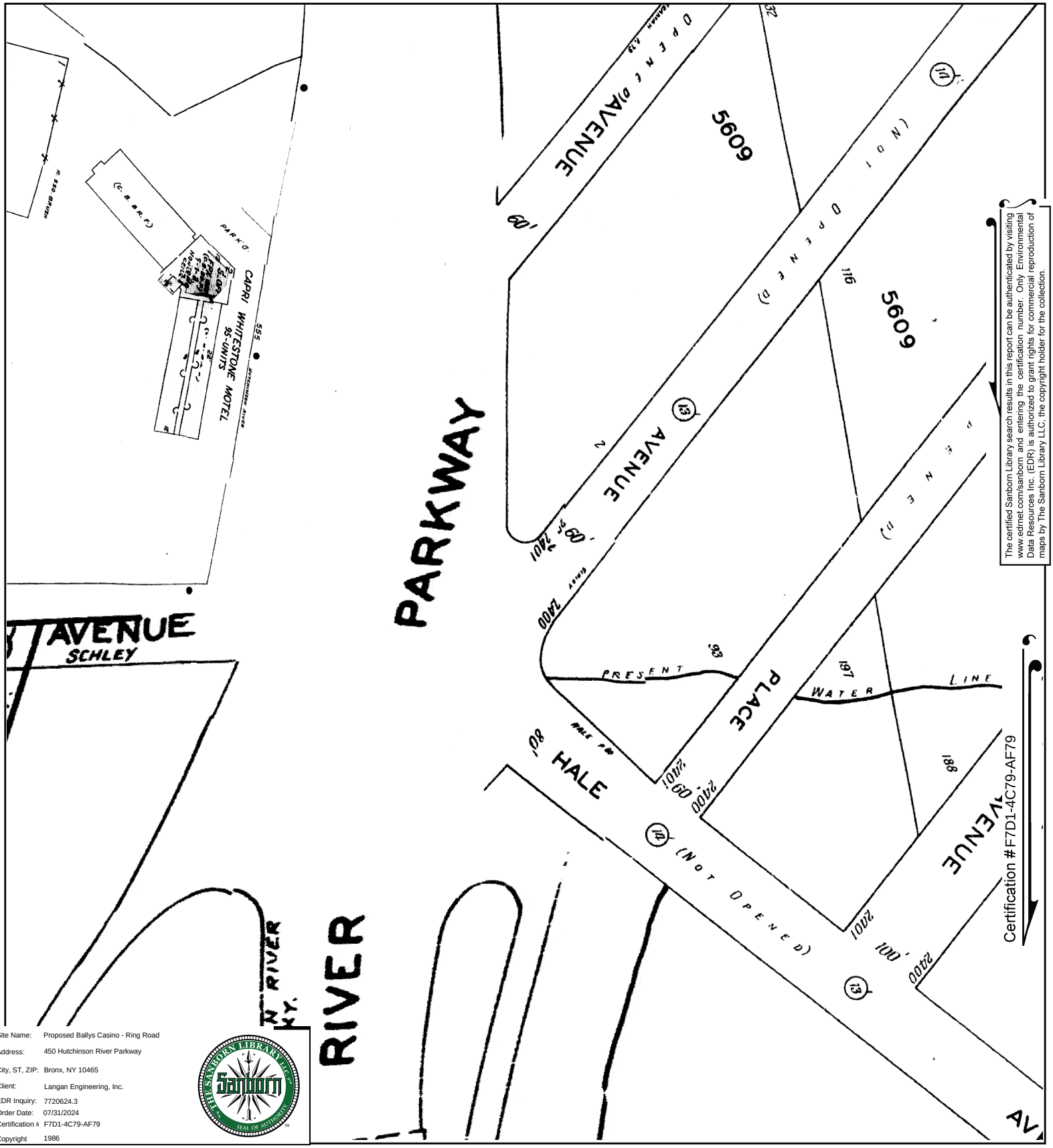

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Certification #	F7D1-4C79-AF79
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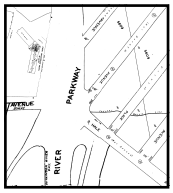

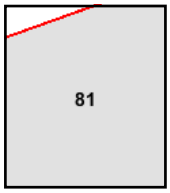

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1983

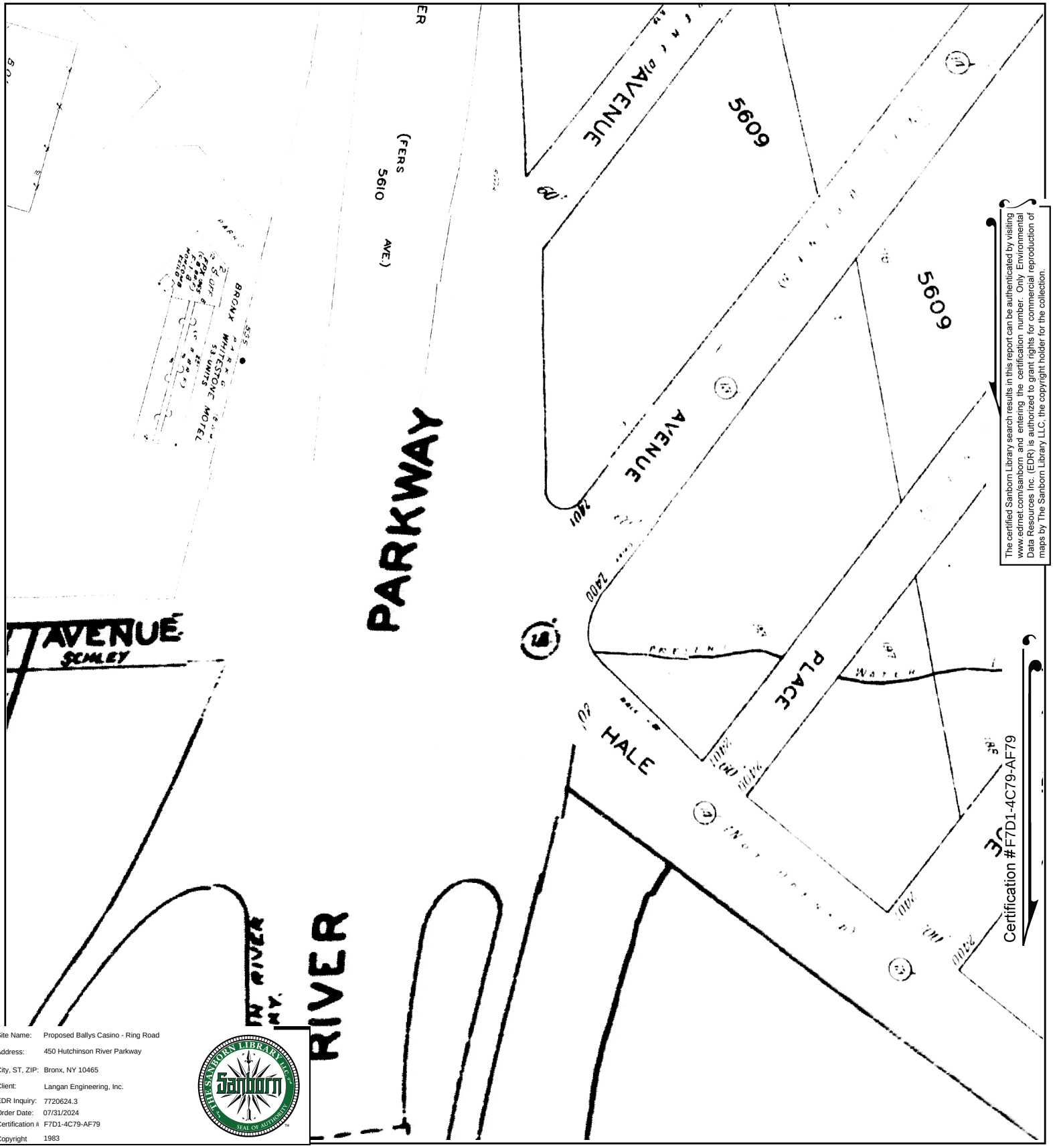

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Certification #	F7D1-4C79-AF79
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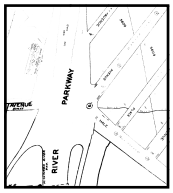

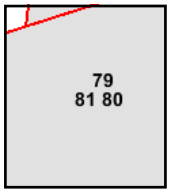

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1981

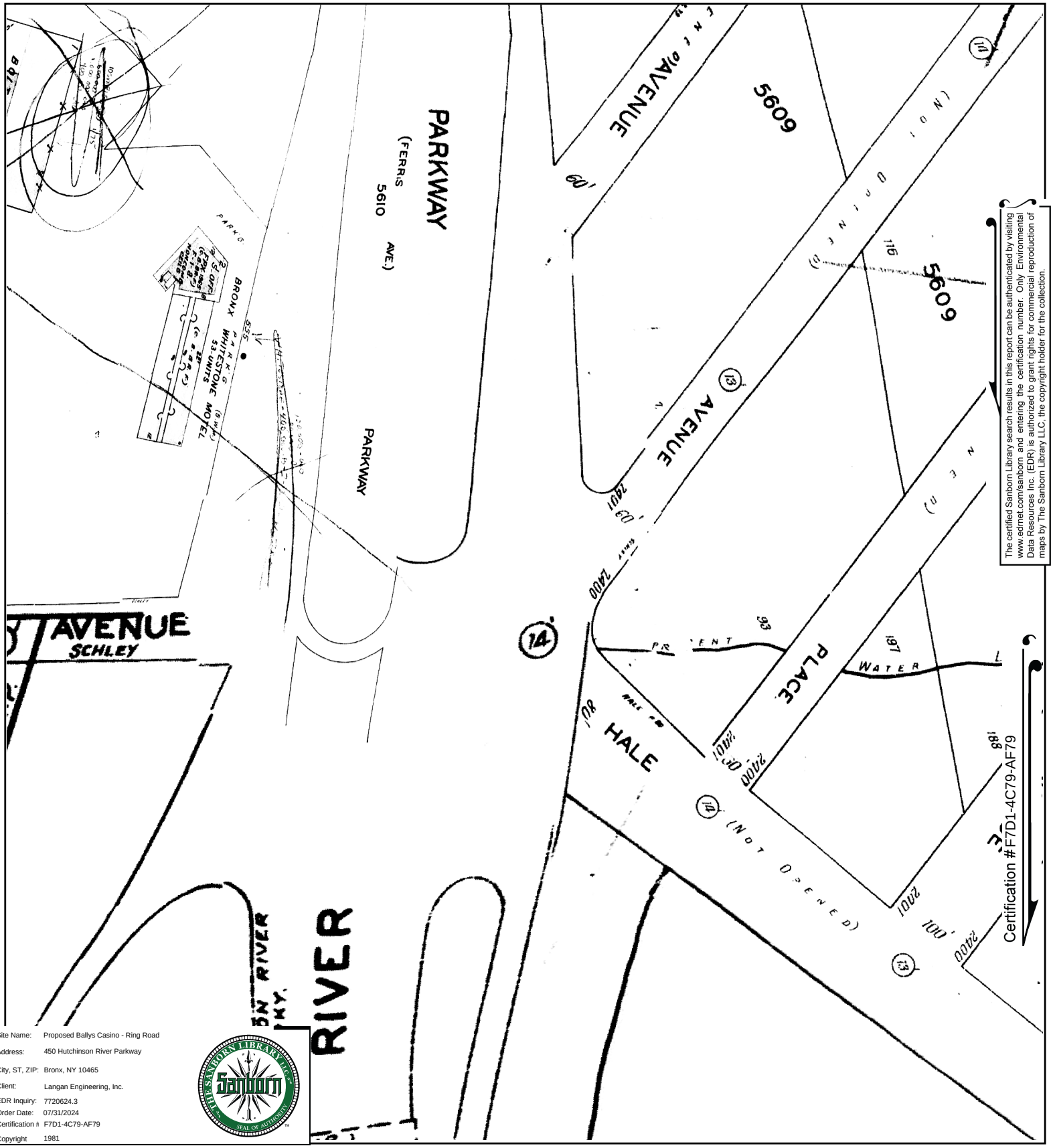

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Certification #	F7D1-4C79-AF79
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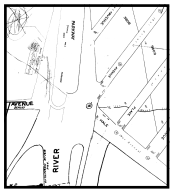

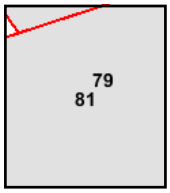

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1978

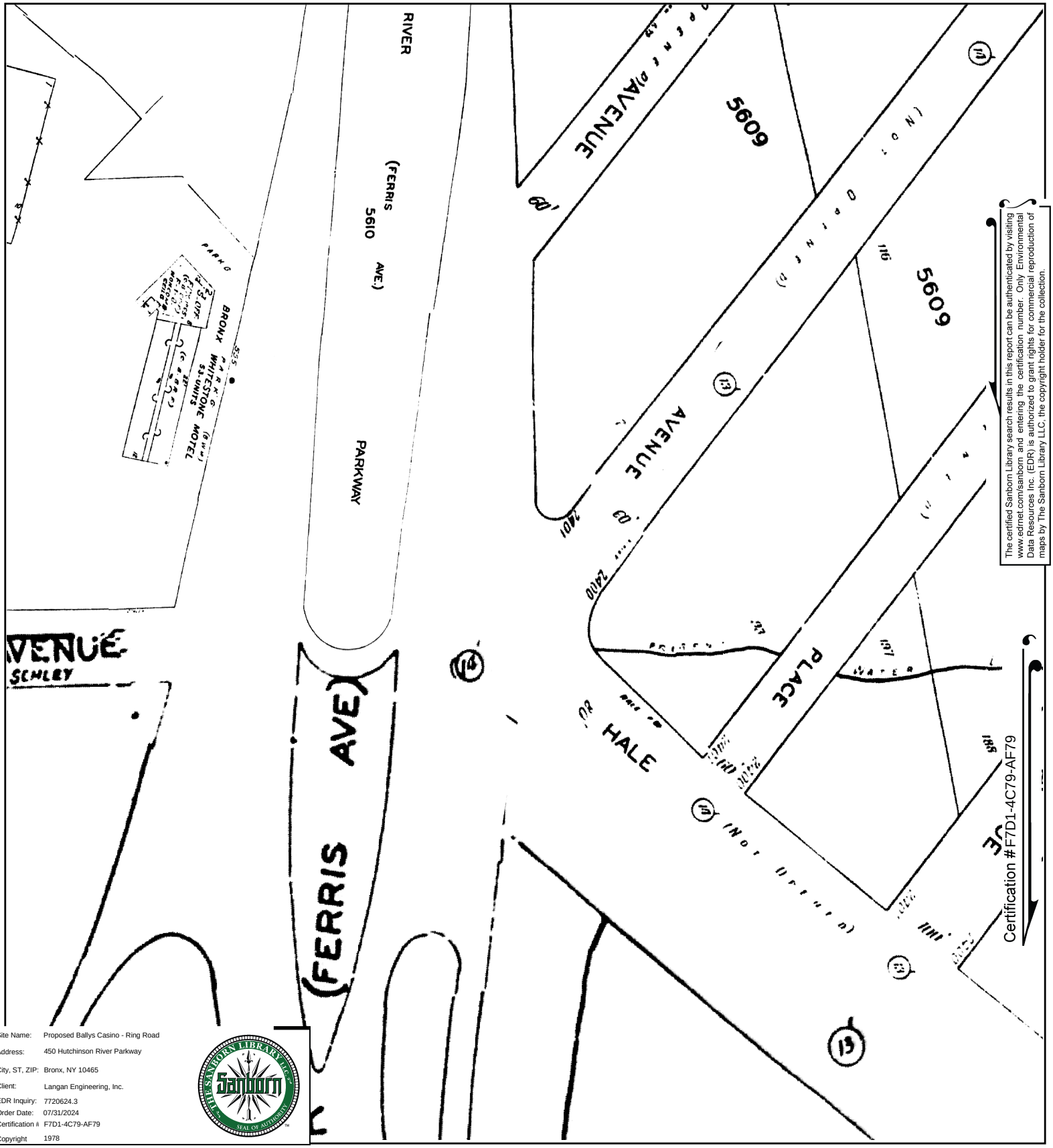

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Certification #	F7D1-4C79-AF79
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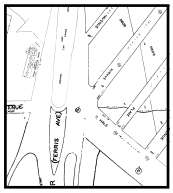

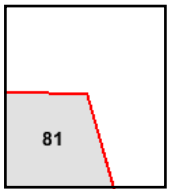

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1977

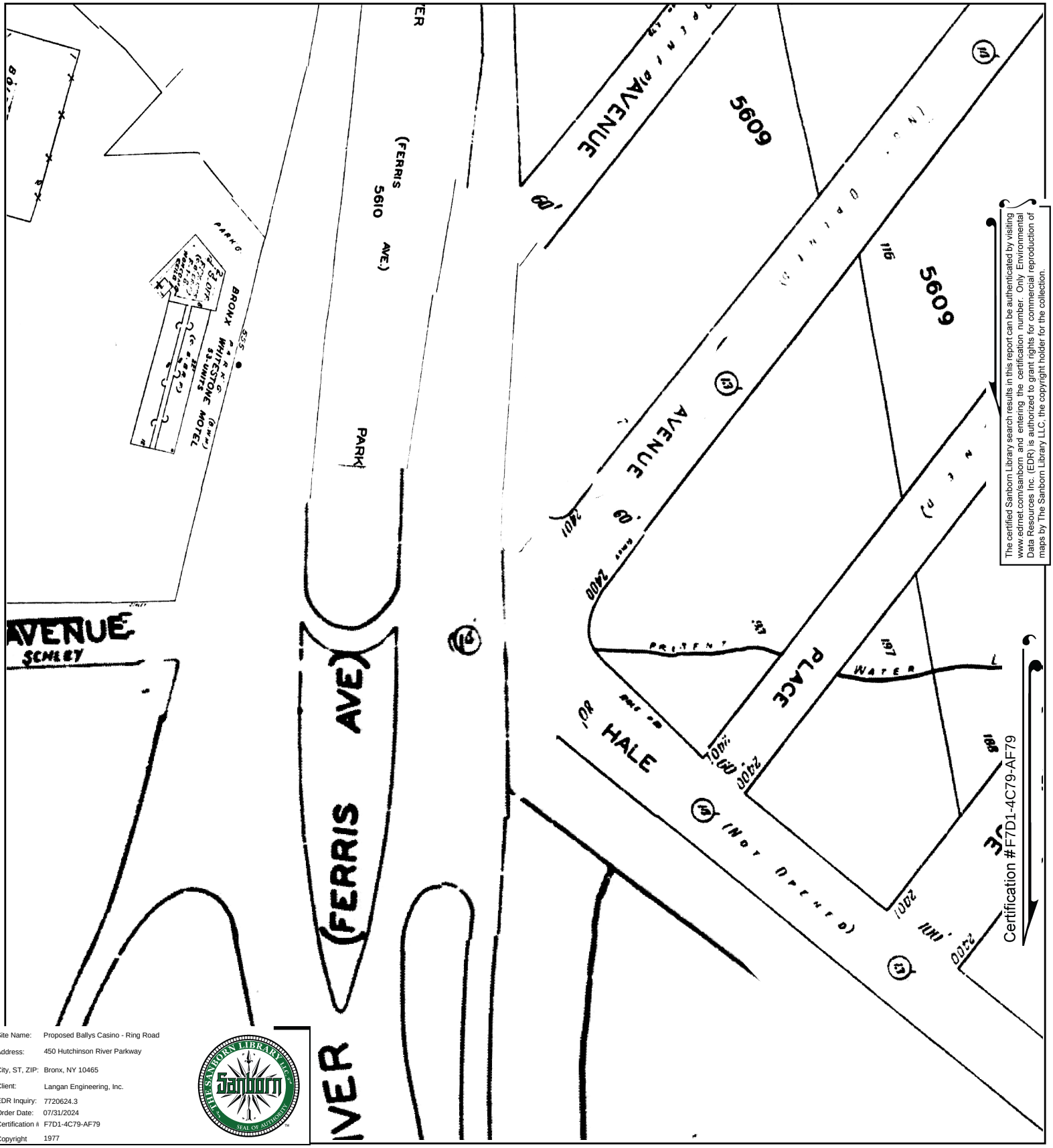

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Certification #	F7D1-4C79-AF79
Copyright	1977

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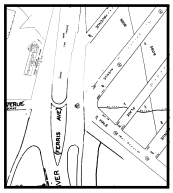

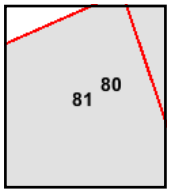

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1967

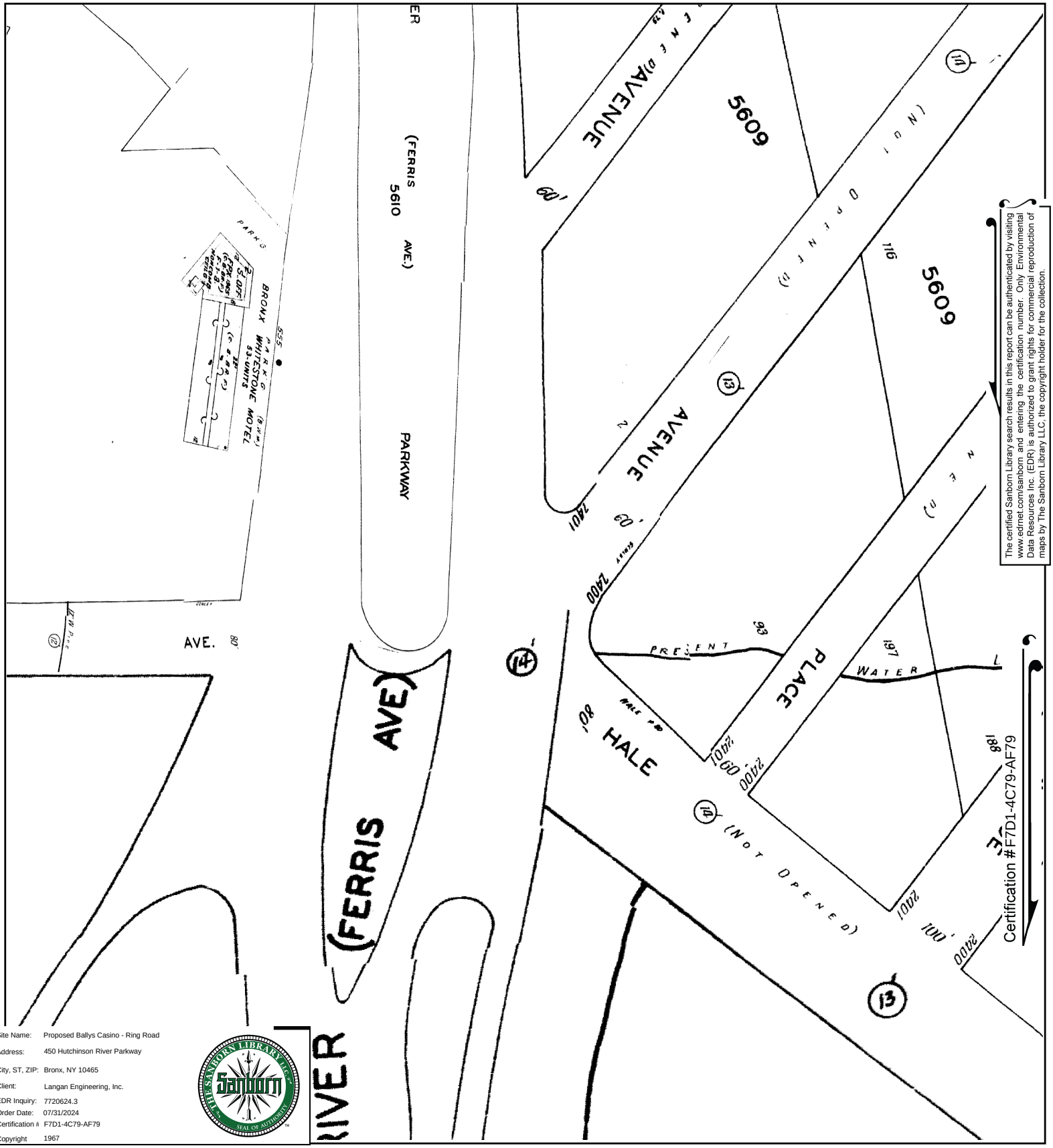

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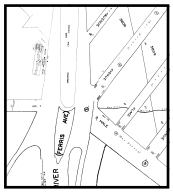

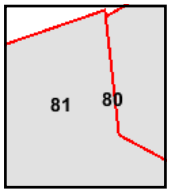

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1950

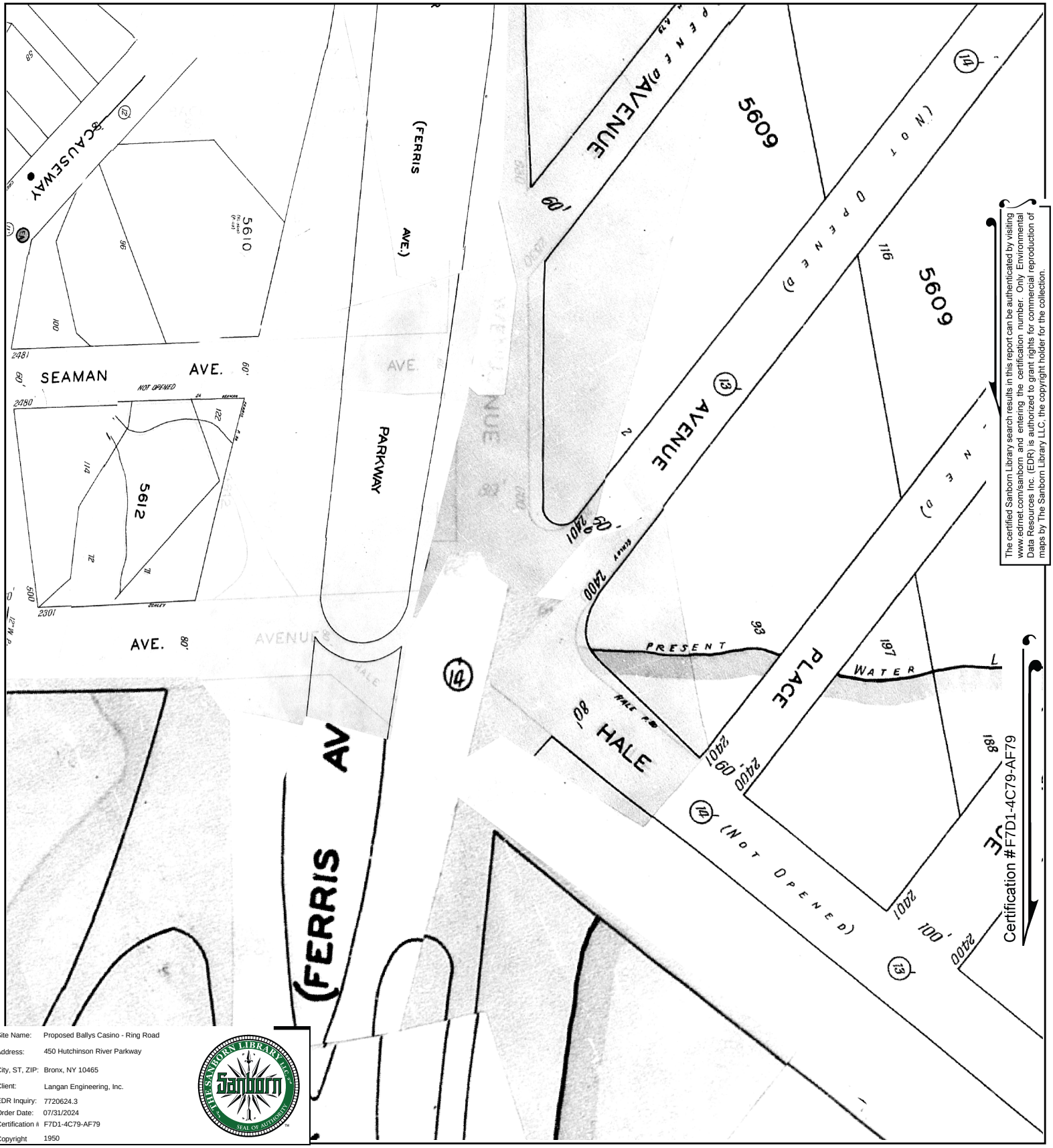

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Copyright	1950

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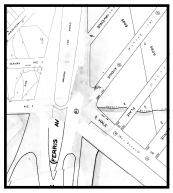

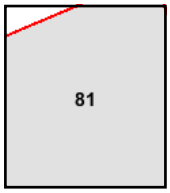

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1930

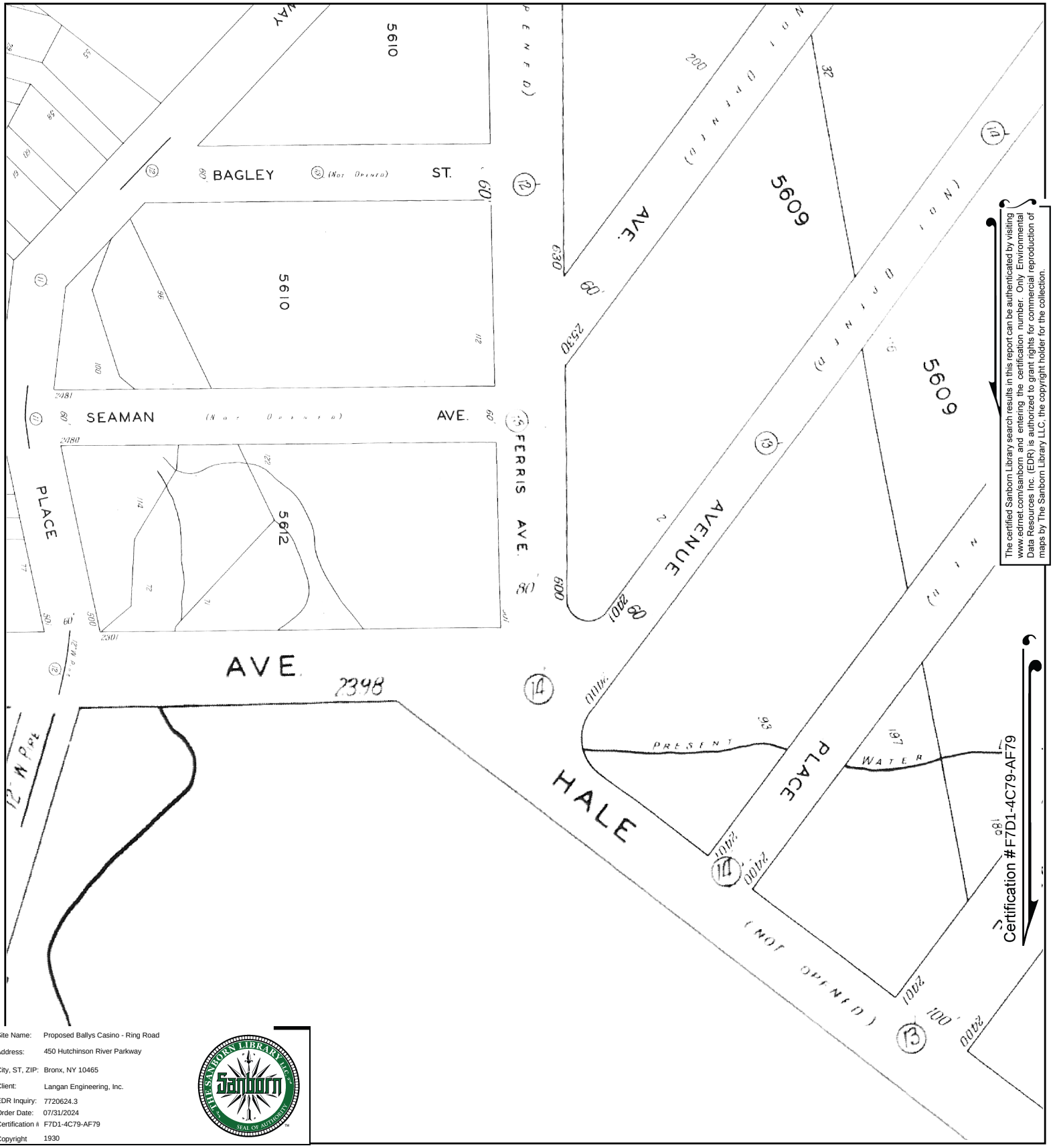

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Copyright	1930

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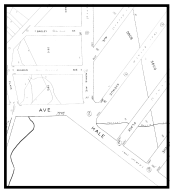

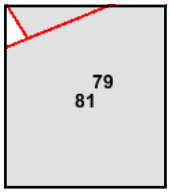

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1919

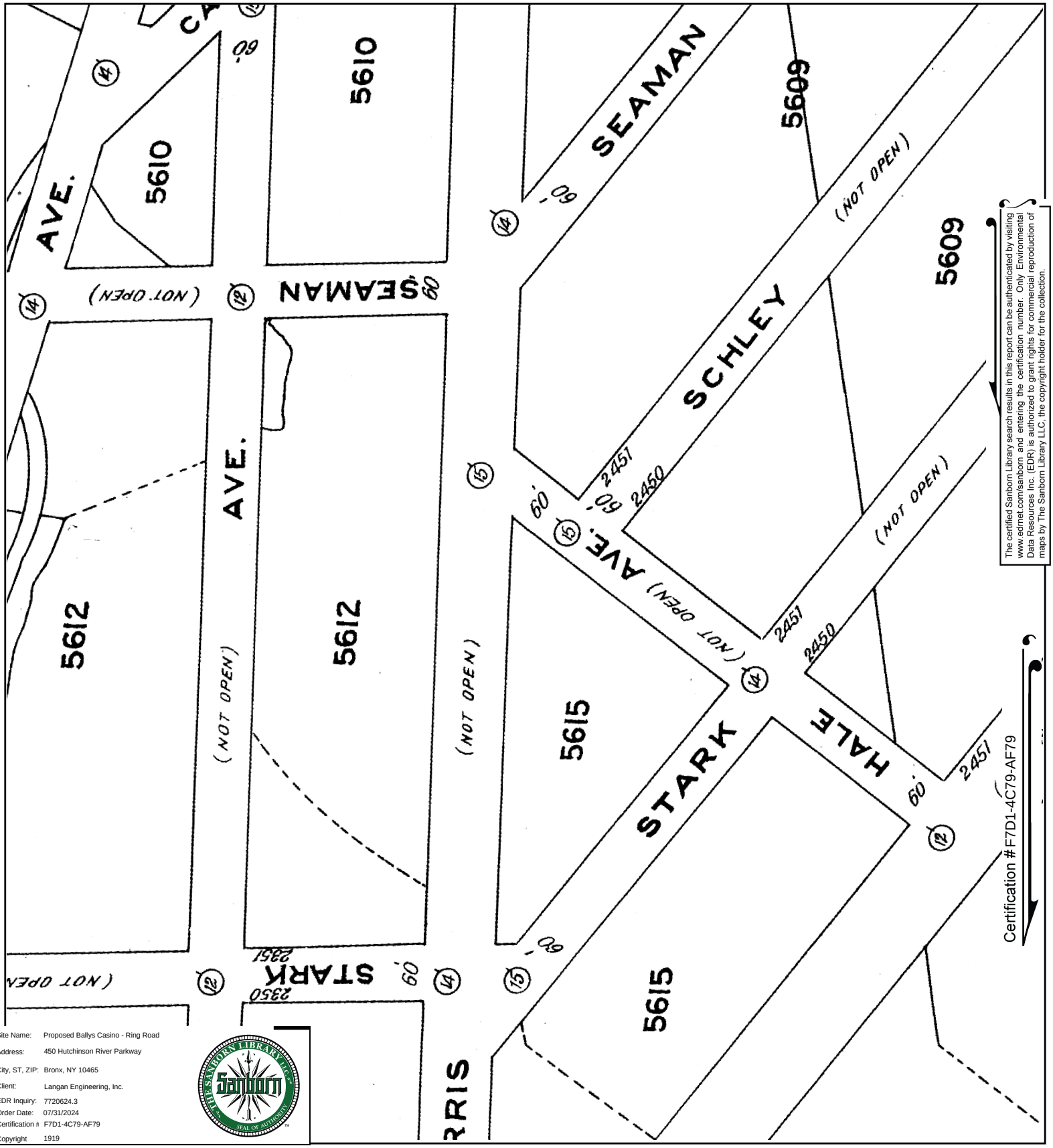

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Copyright	1919

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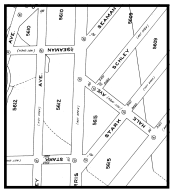

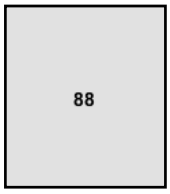

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1908

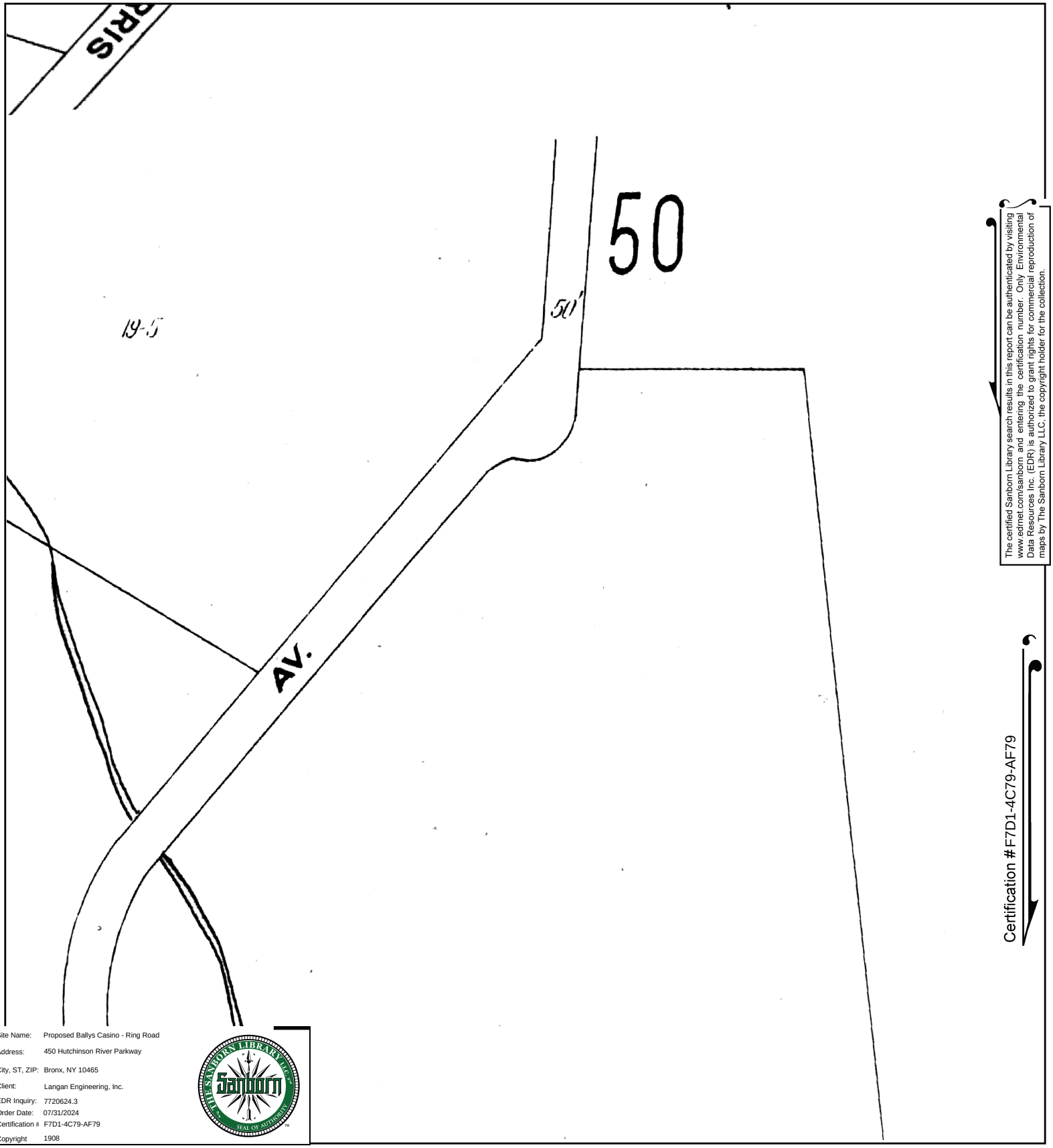

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Copyright	1908

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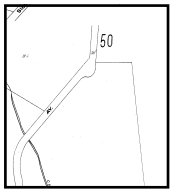

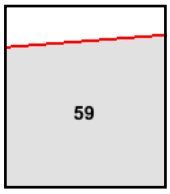

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N

Certified Sanborn® Map

1898

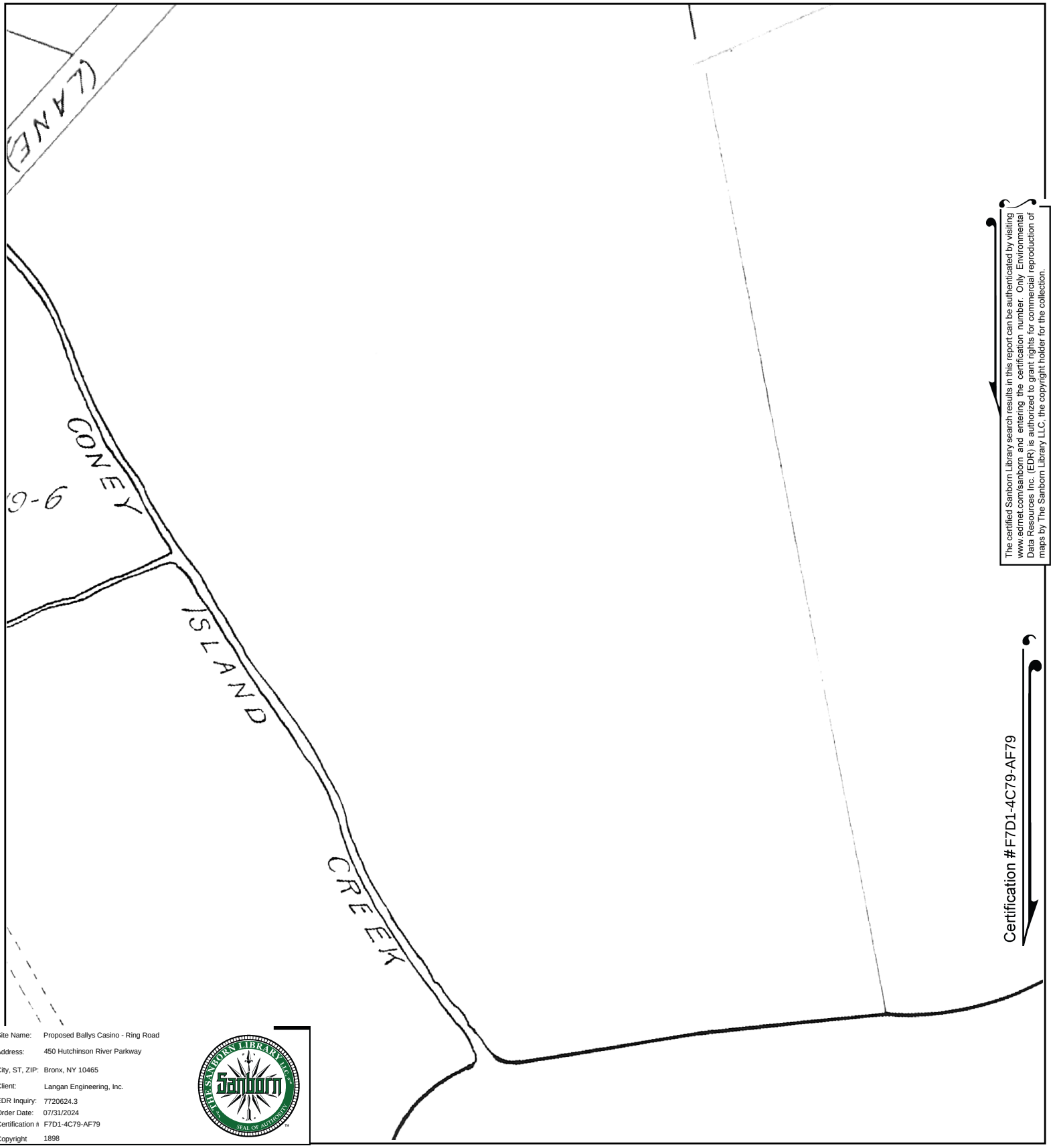

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1898

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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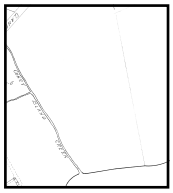

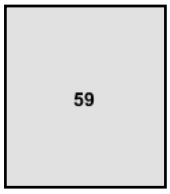

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N

Proposed Ballys Casino - Ring Road

450 Hutchinson River Parkway

Bronx, NY 10465

Inquiry Number: 7720624.3

July 31, 2024

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

07/31/24

Site Name:	Client Name:
Proposed Ballys Casino - Ring	Langan Engineering, Inc.
450 Hutchinson River Parkway	360 W. 31st Street
Bronx, NY 10465	New York, NY 10001
EDR Inquiry # 7720624.3	Contact: Kaitlyn Gioia

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Langan Engineering, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # F7D1-4C79-AF79

PO # 170773001

Project Prpsd Bally s Casino - Ring Rd

Maps Provided:

2007	1996	1981	1898
2006	1995	1978	
2005	1993	1977	
2004	1992	1967	
2003	1991	1950	
2002	1988	1930	
2001	1986	1919	
1998	1983	1908	

Sanborn® Library search results

Certification #: F7D1-4C79-AF79

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- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2007 Source Sheets

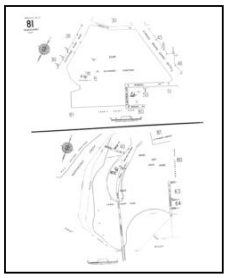

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2007

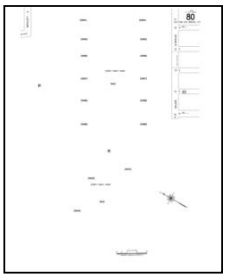

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2007

2006 Source Sheets

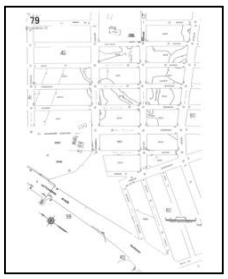

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2006

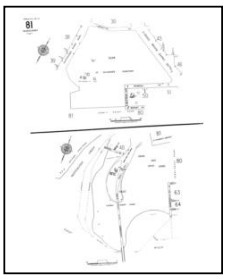

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2006

2005 Source Sheets

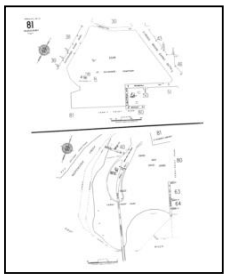

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2005

2004 Source Sheets

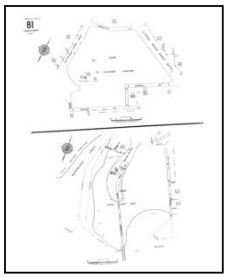

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2004

Sanborn Sheet Key

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2003 Source Sheets

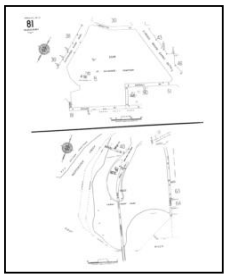

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2003

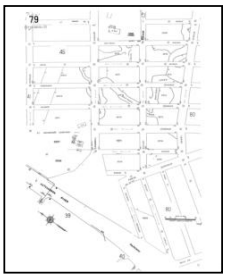

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2003

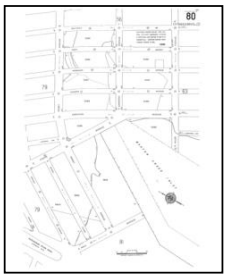

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2003

2002 Source Sheets

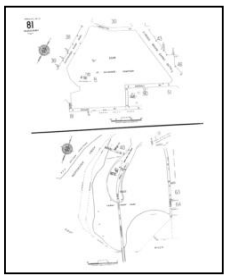

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2002

2001 Source Sheets

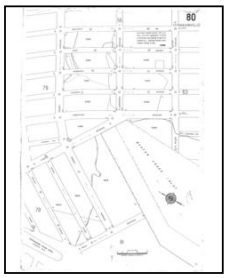

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2001

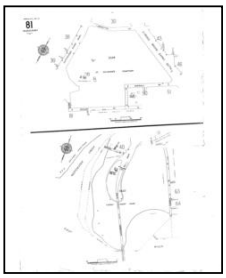

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2001

1998 Source Sheets

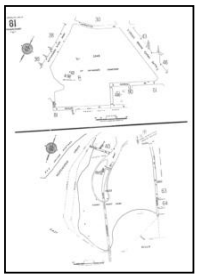

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1998

Sanborn Sheet Key

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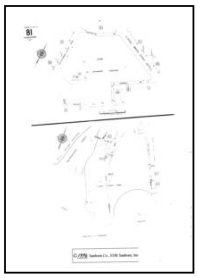

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1996

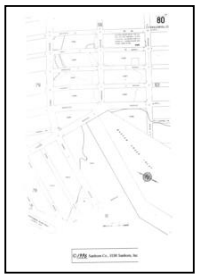

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1996

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1996

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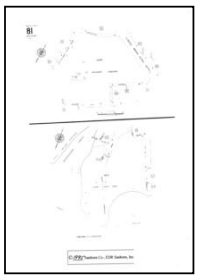

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1995

1993 Source Sheets

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1993

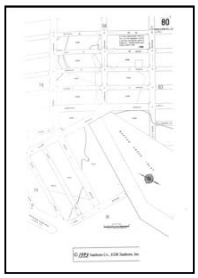

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1993

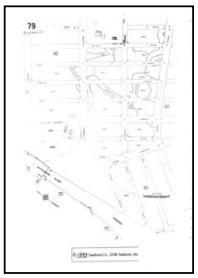

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1993

1992 Source Sheets

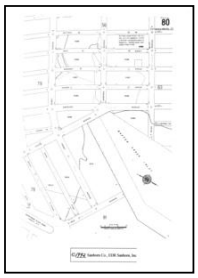

Volume 21, Sheet 80
1992

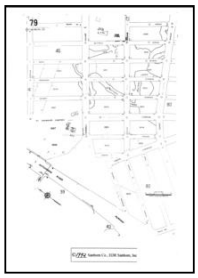

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1992

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1992

Sanborn Sheet Key

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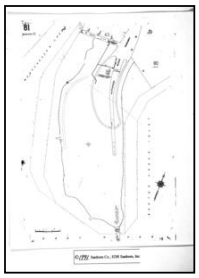

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1991

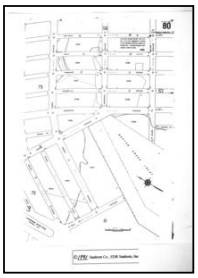

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1991

1988 Source Sheets

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1988

1986 Source Sheets

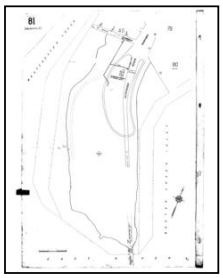

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1986

1983 Source Sheets

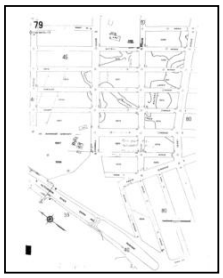

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1983

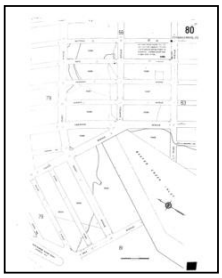

Volume 21, Sheet 80
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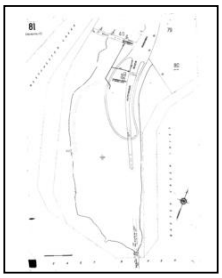

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1983

Sanborn Sheet Key

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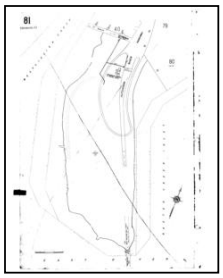

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1981

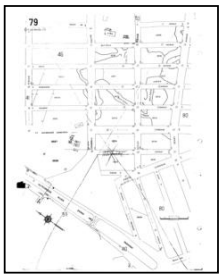

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1981

1978 Source Sheets

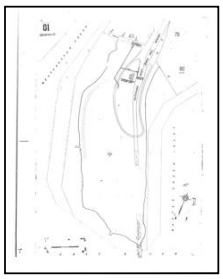

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1978

1977 Source Sheets

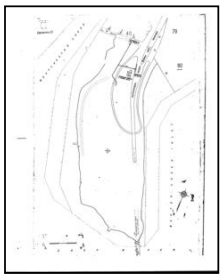

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1977

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1977

1967 Source Sheets

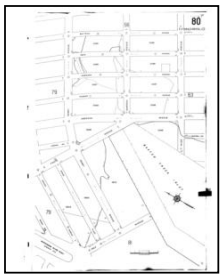

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1967

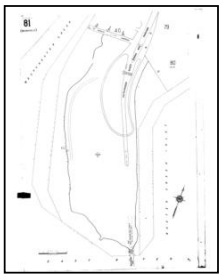

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1967

Sanborn Sheet Key

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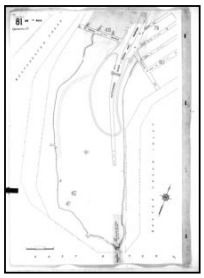

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1950

1930 Source Sheets

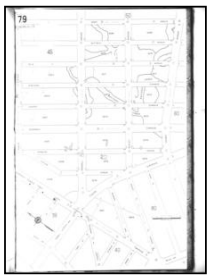

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1930

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1930

1919 Source Sheets

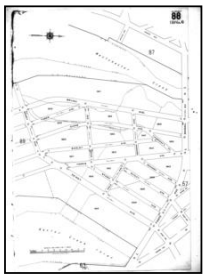

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1919

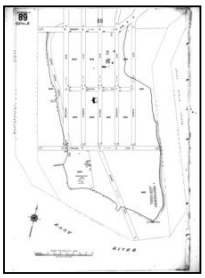

Volume 17, Sheet 89
1919

1908 Source Sheets

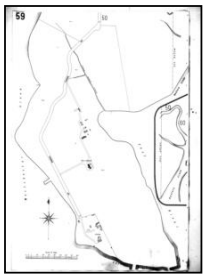

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1908

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1898 Source Sheets

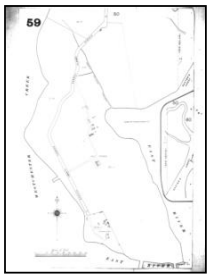

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1898

Certified Sanborn® Map

2007

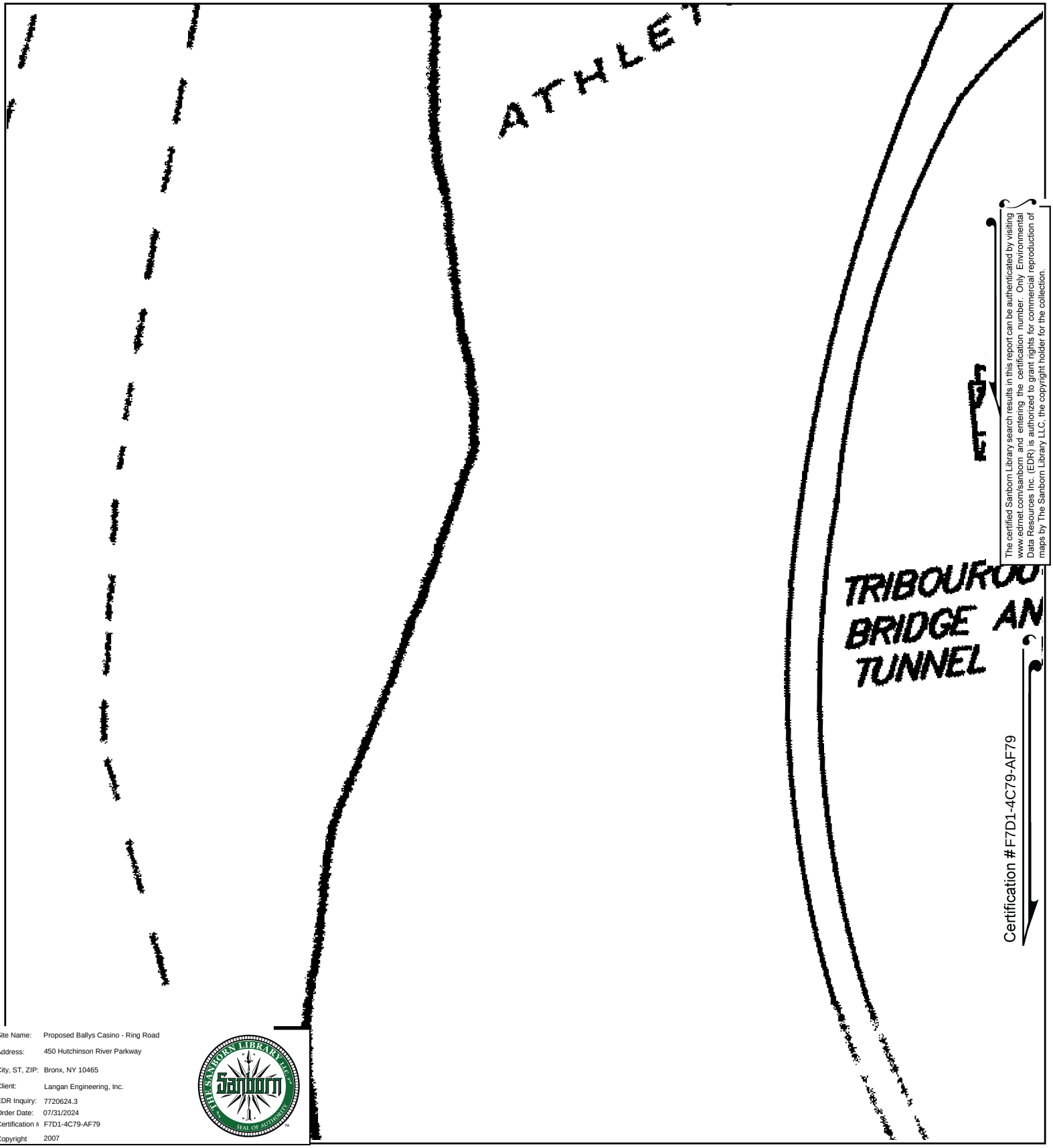

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City, ST, ZIP:	Bronx, NY 10465
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Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	2007

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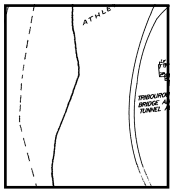

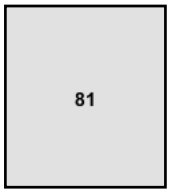

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Volume 21, Sheet 81

N

Certified Sanborn® Map

2006

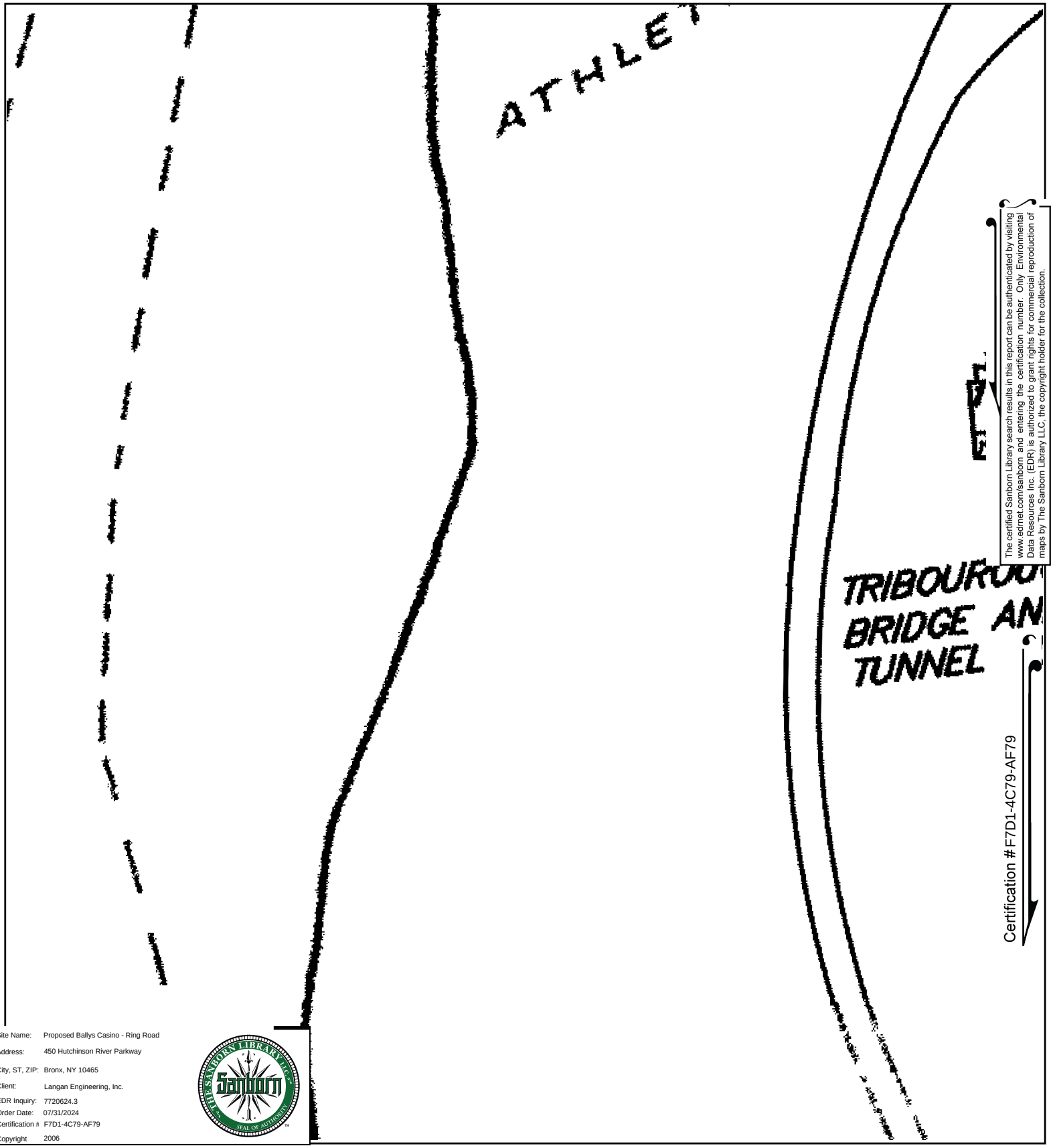

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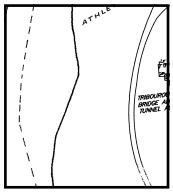

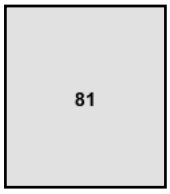

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N

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2005

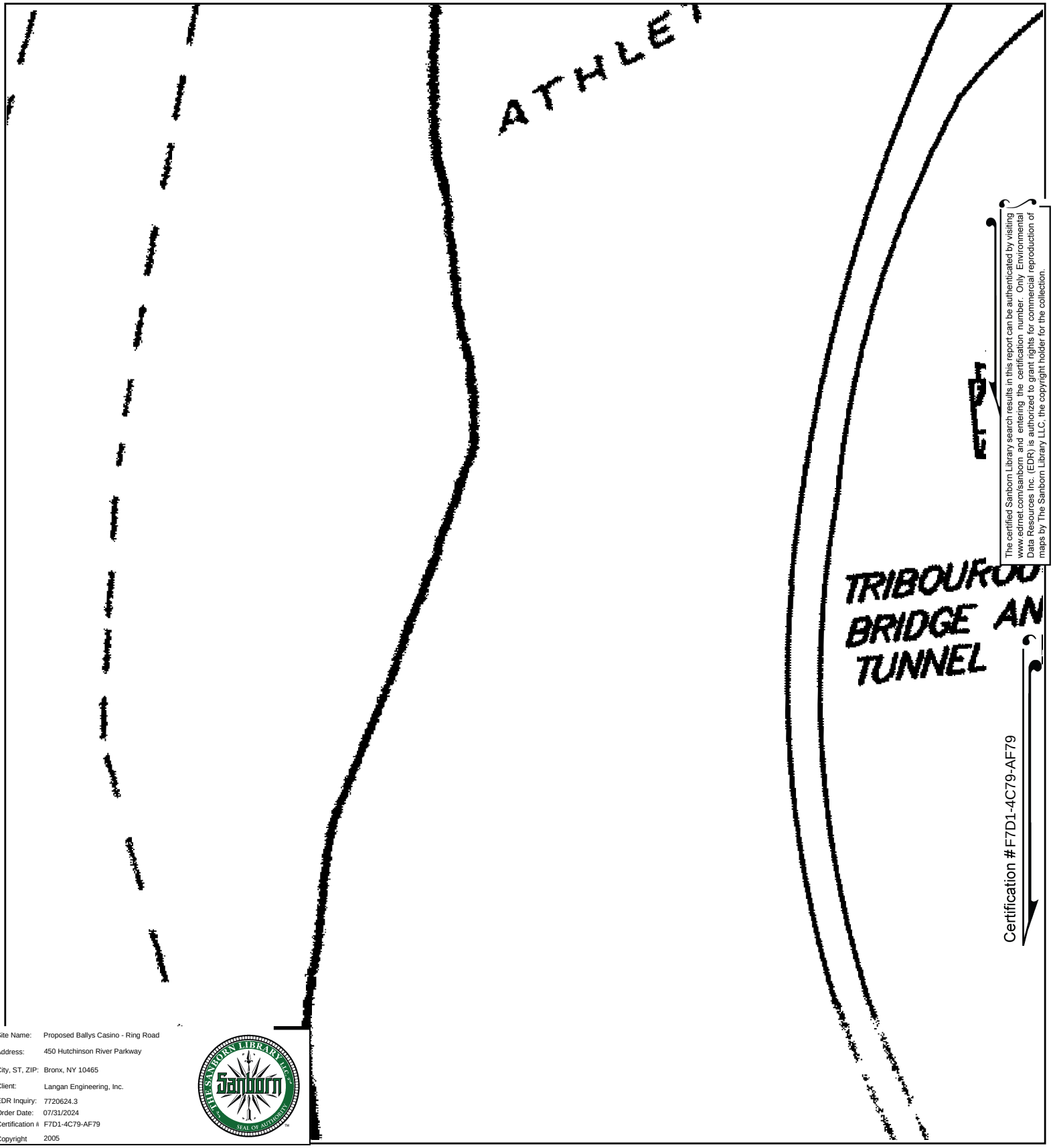

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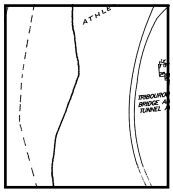

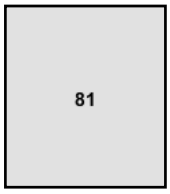

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N

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2004

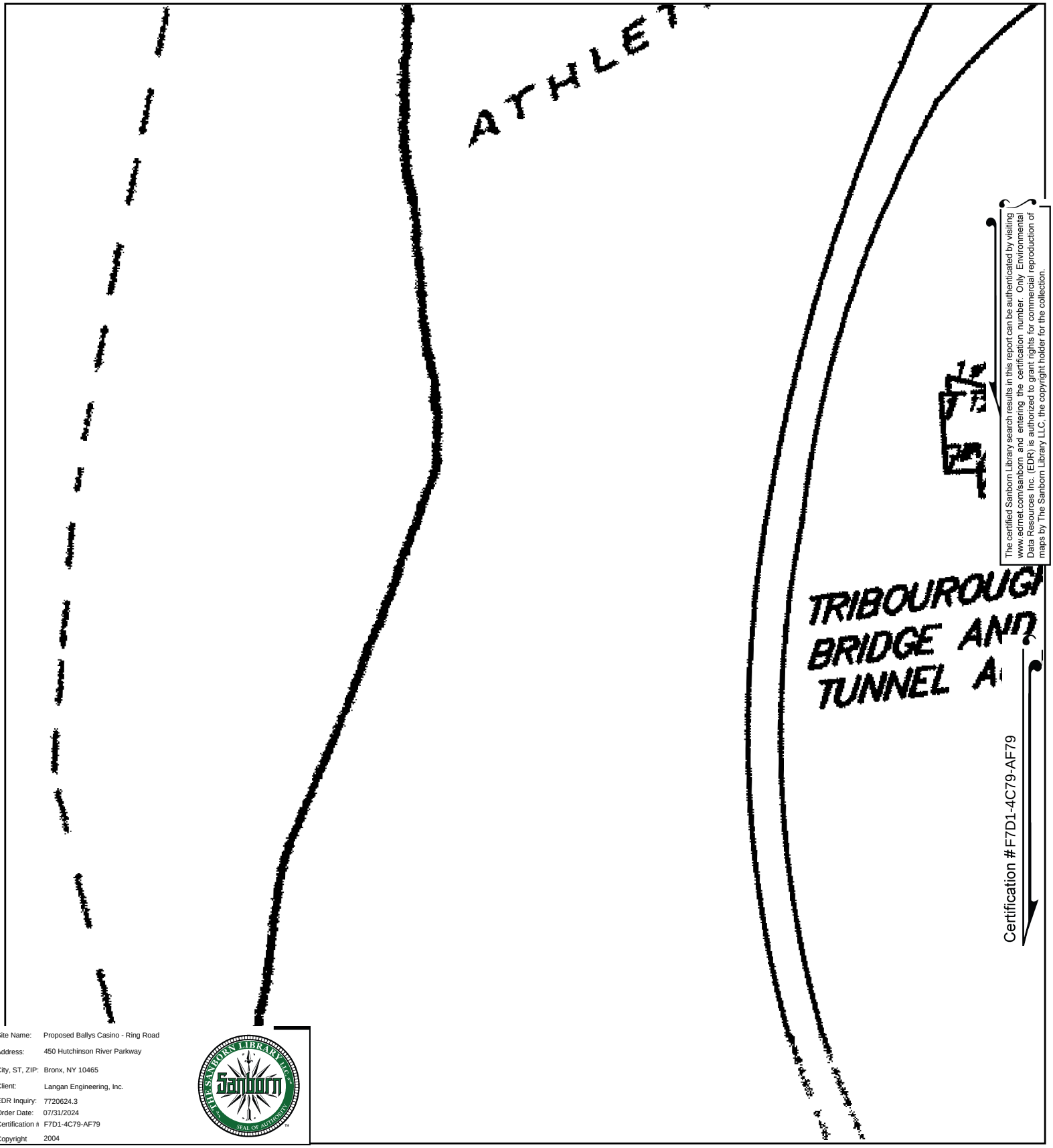

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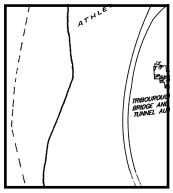

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2003

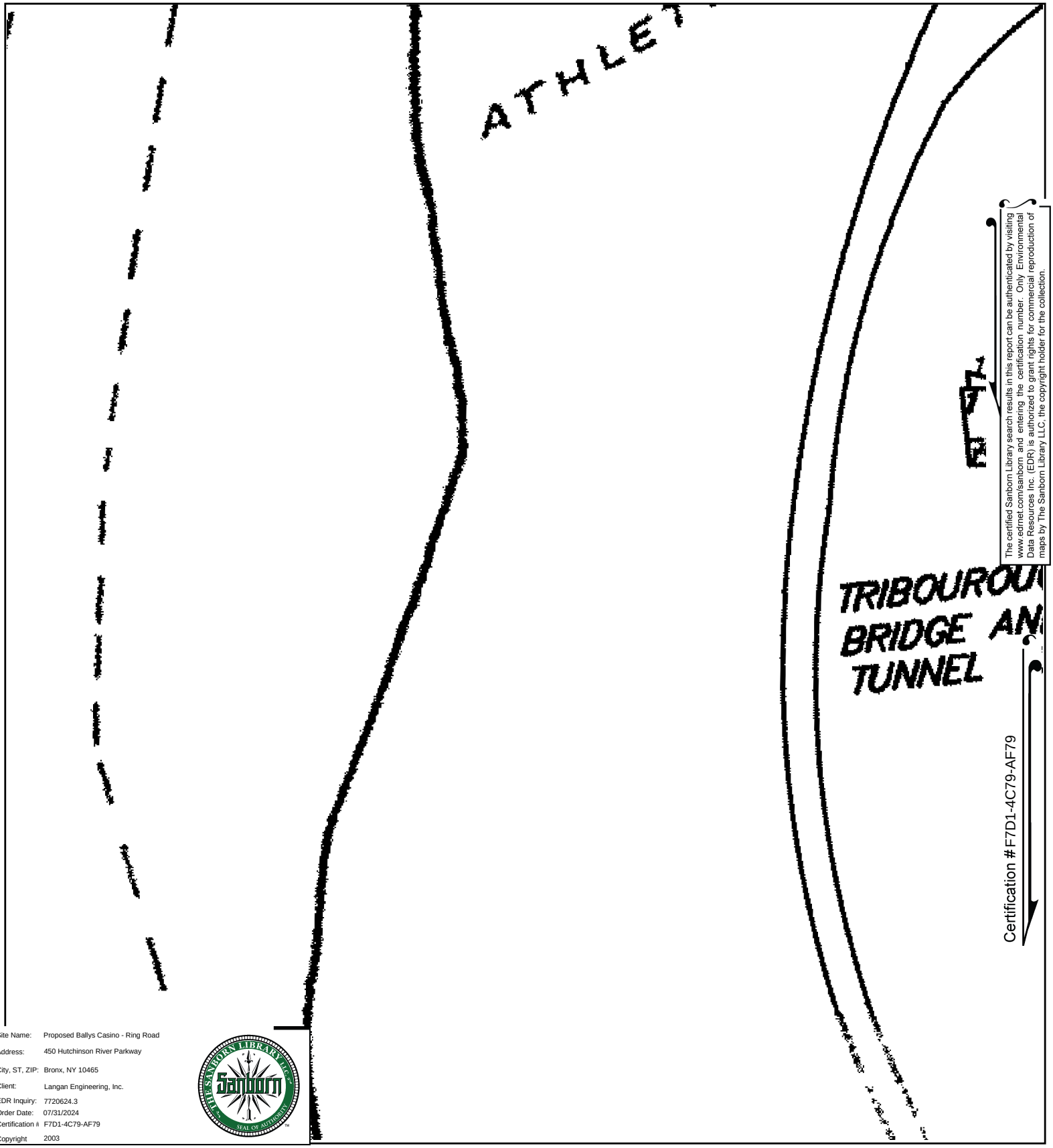

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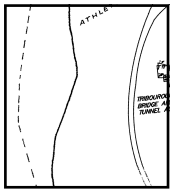

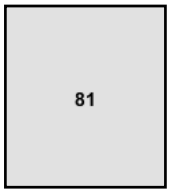

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Volume 21, Sheet 81

N

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2002

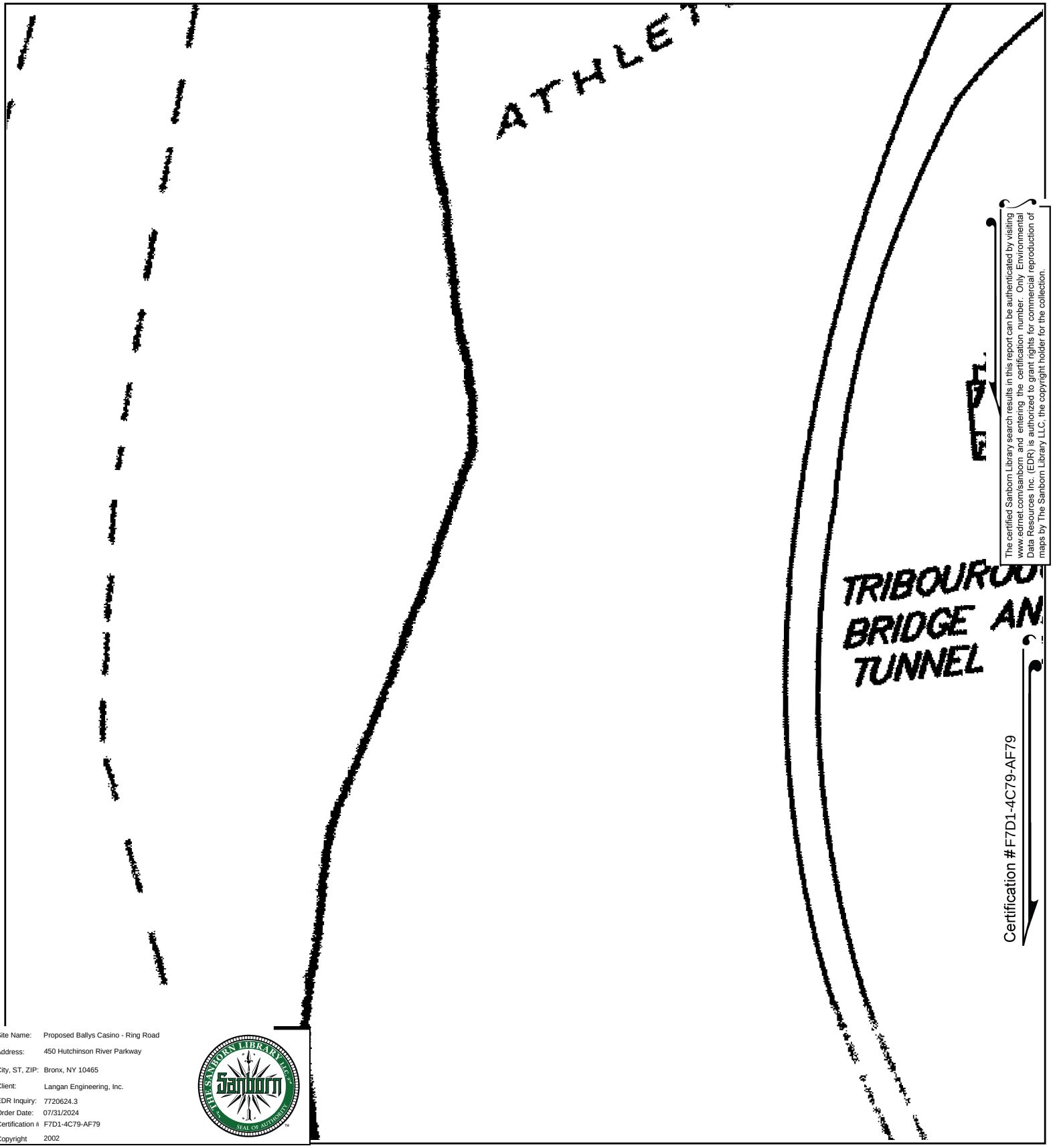

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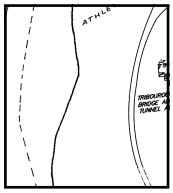

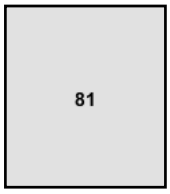

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2001

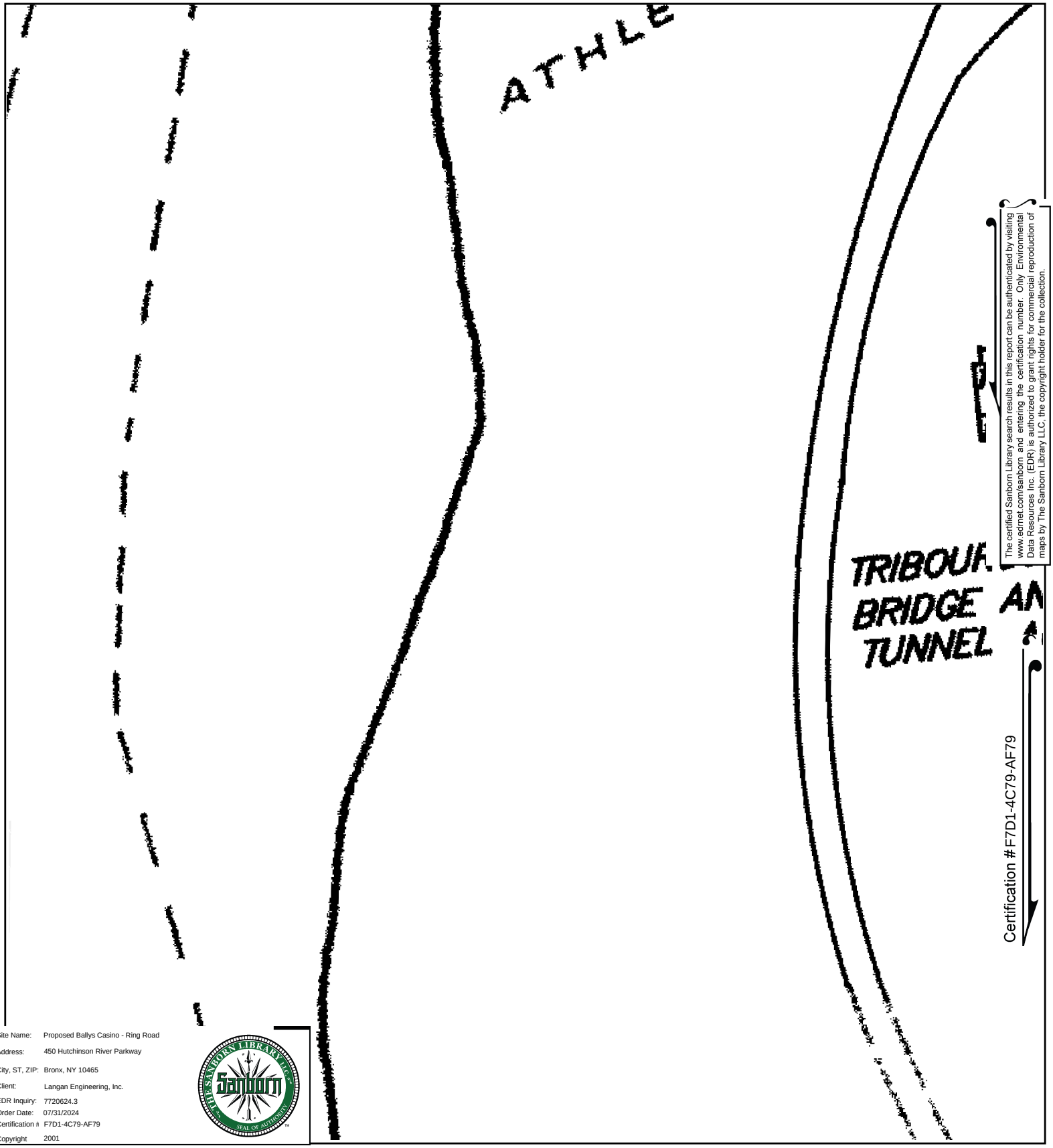

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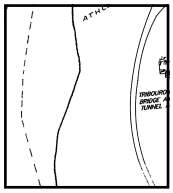

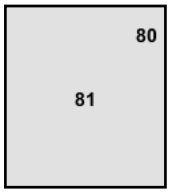

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1998

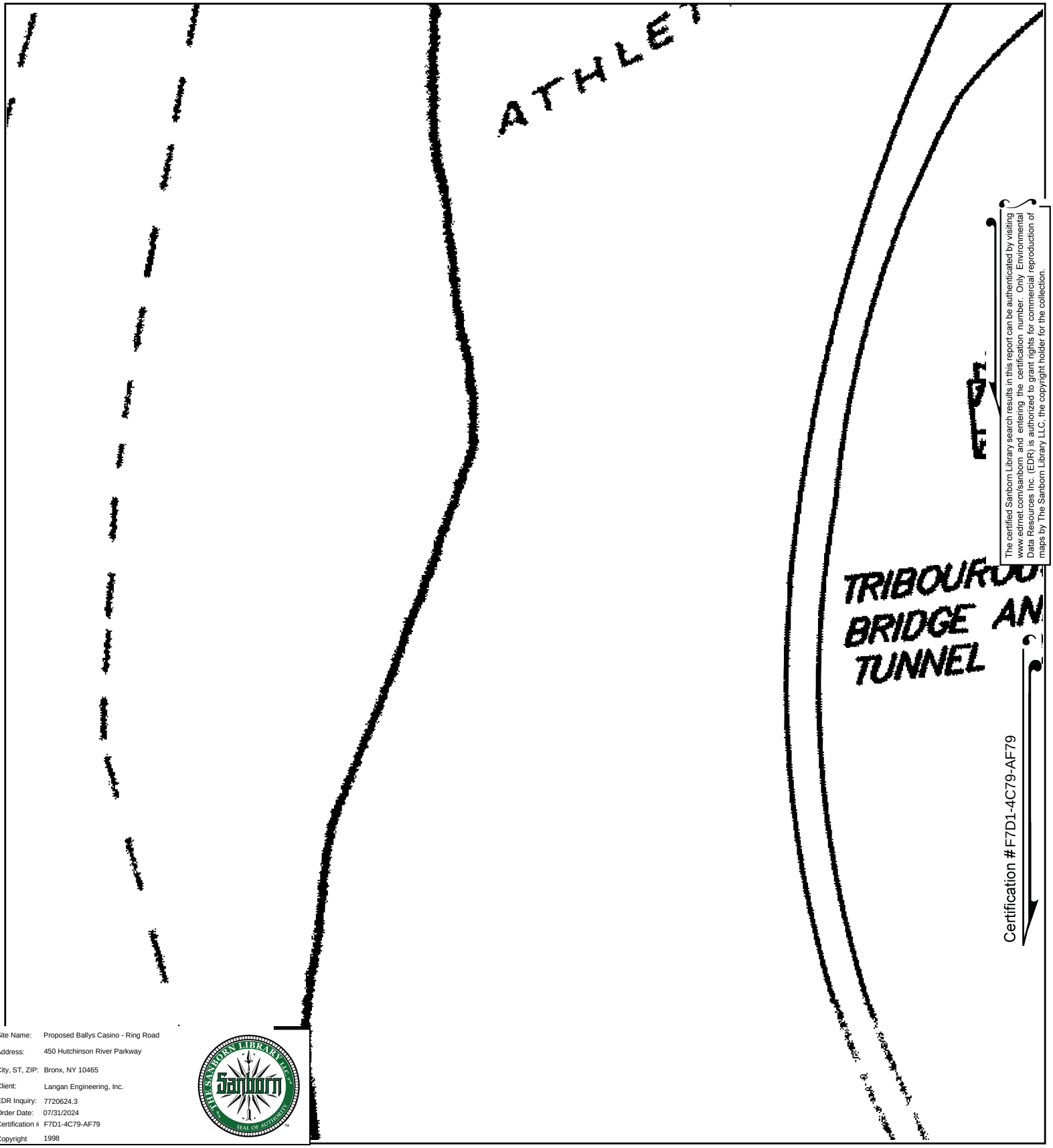

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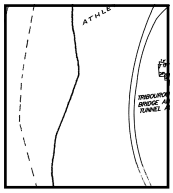

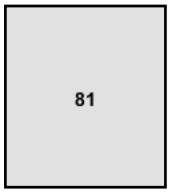

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1996

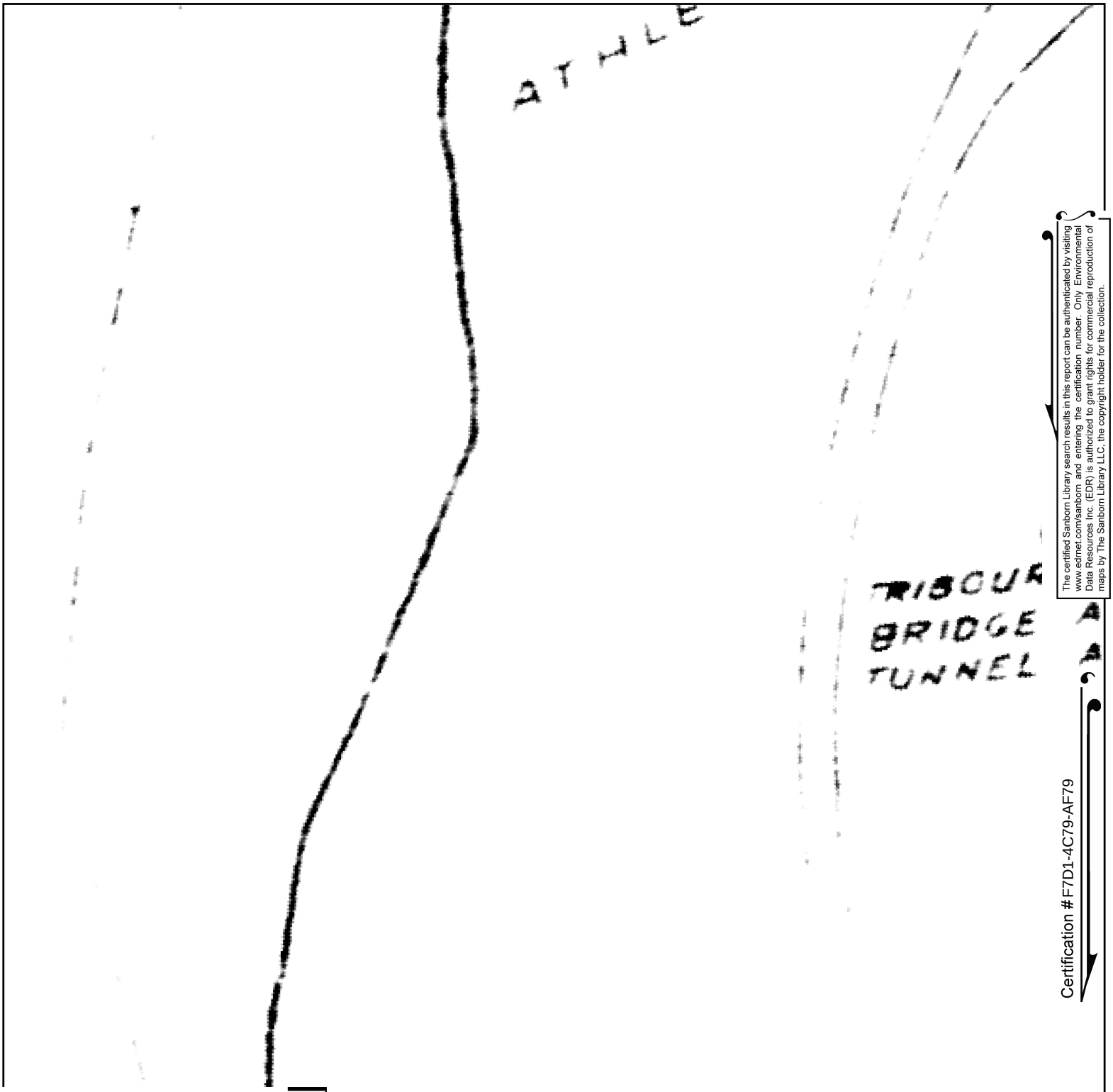

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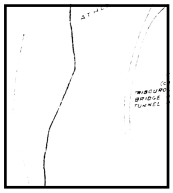

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1995

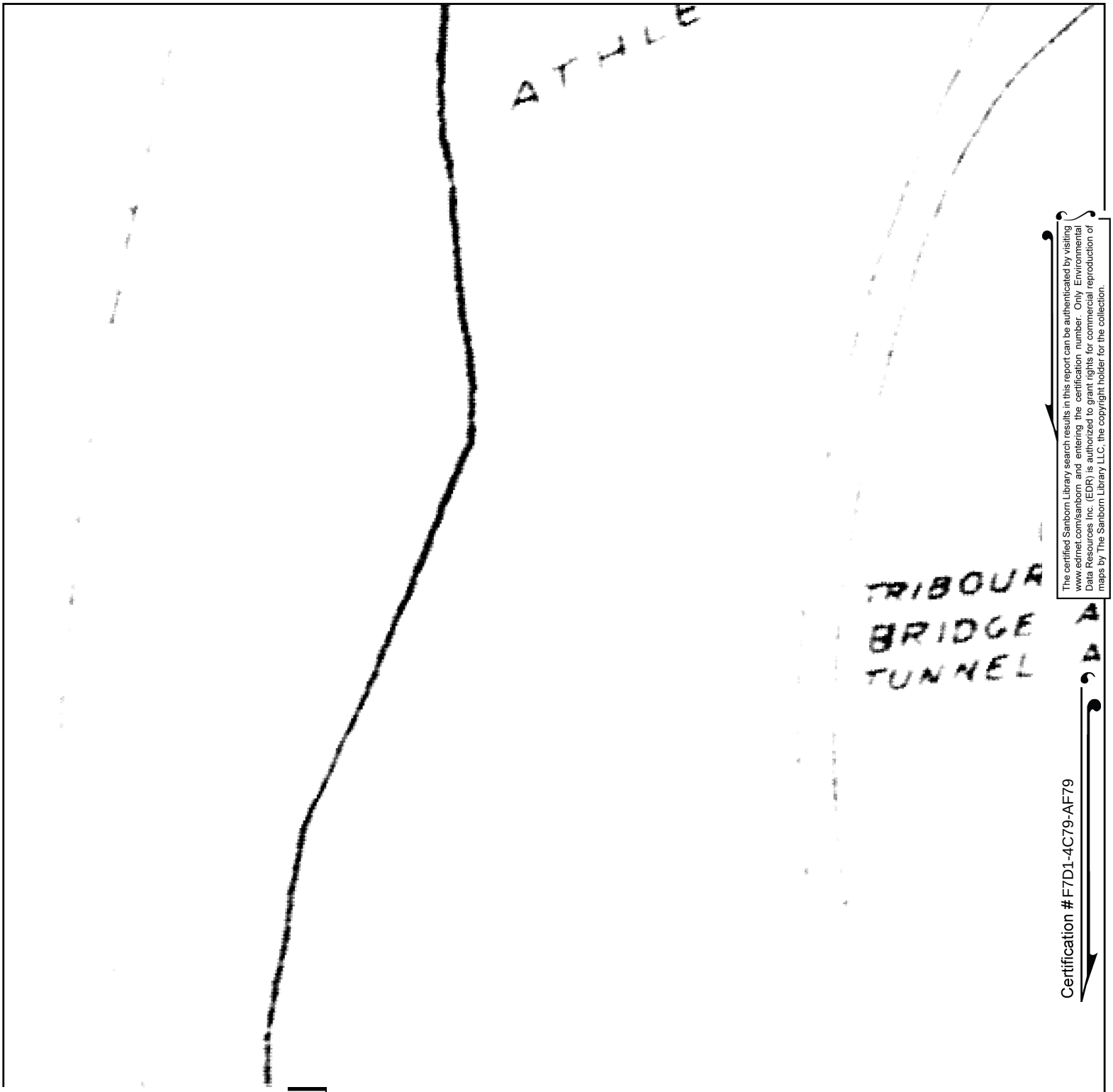

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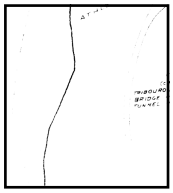

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1993

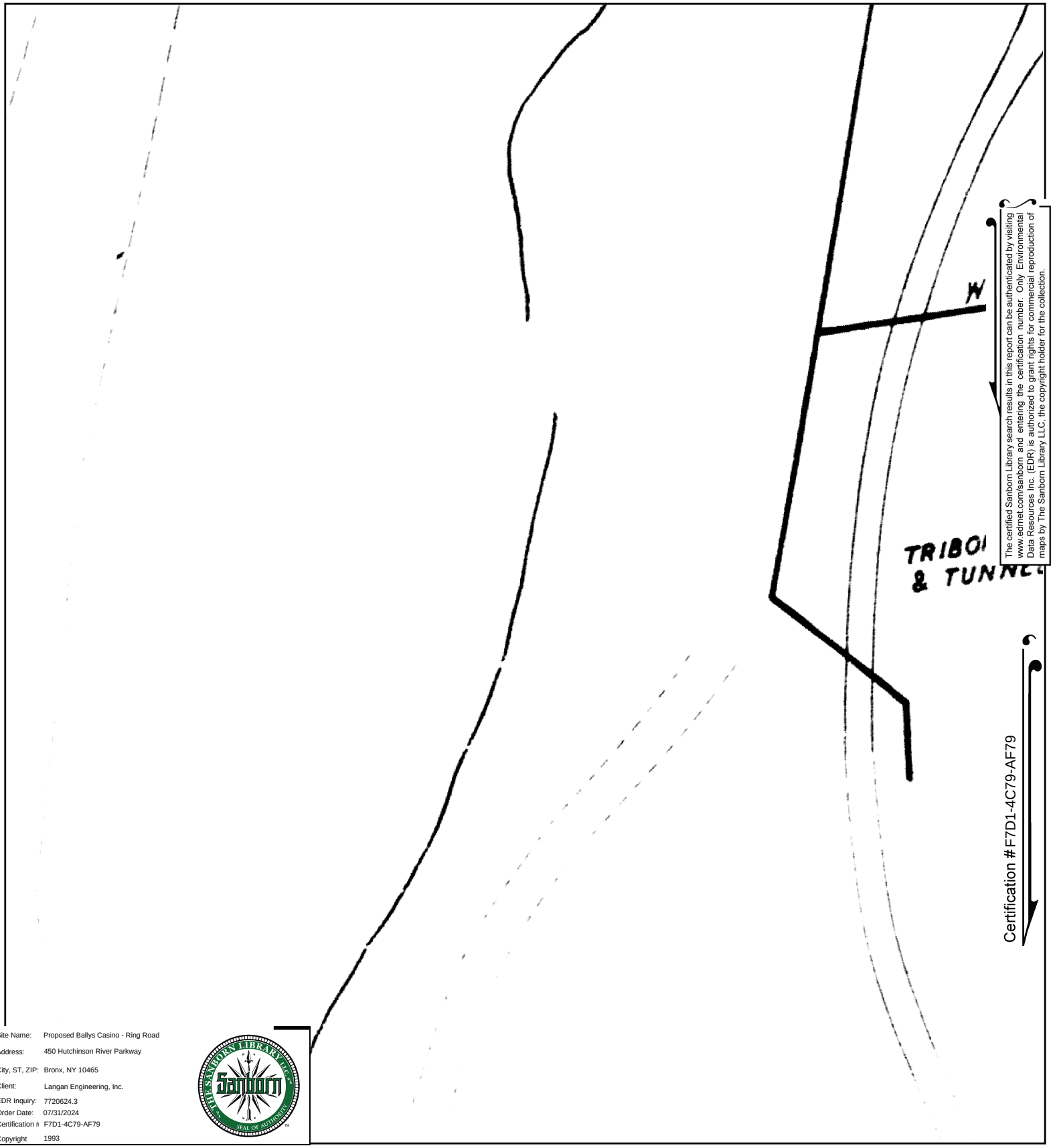

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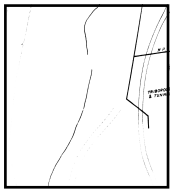

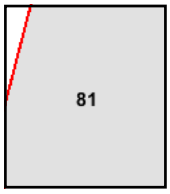

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Volume 21, Sheet 81

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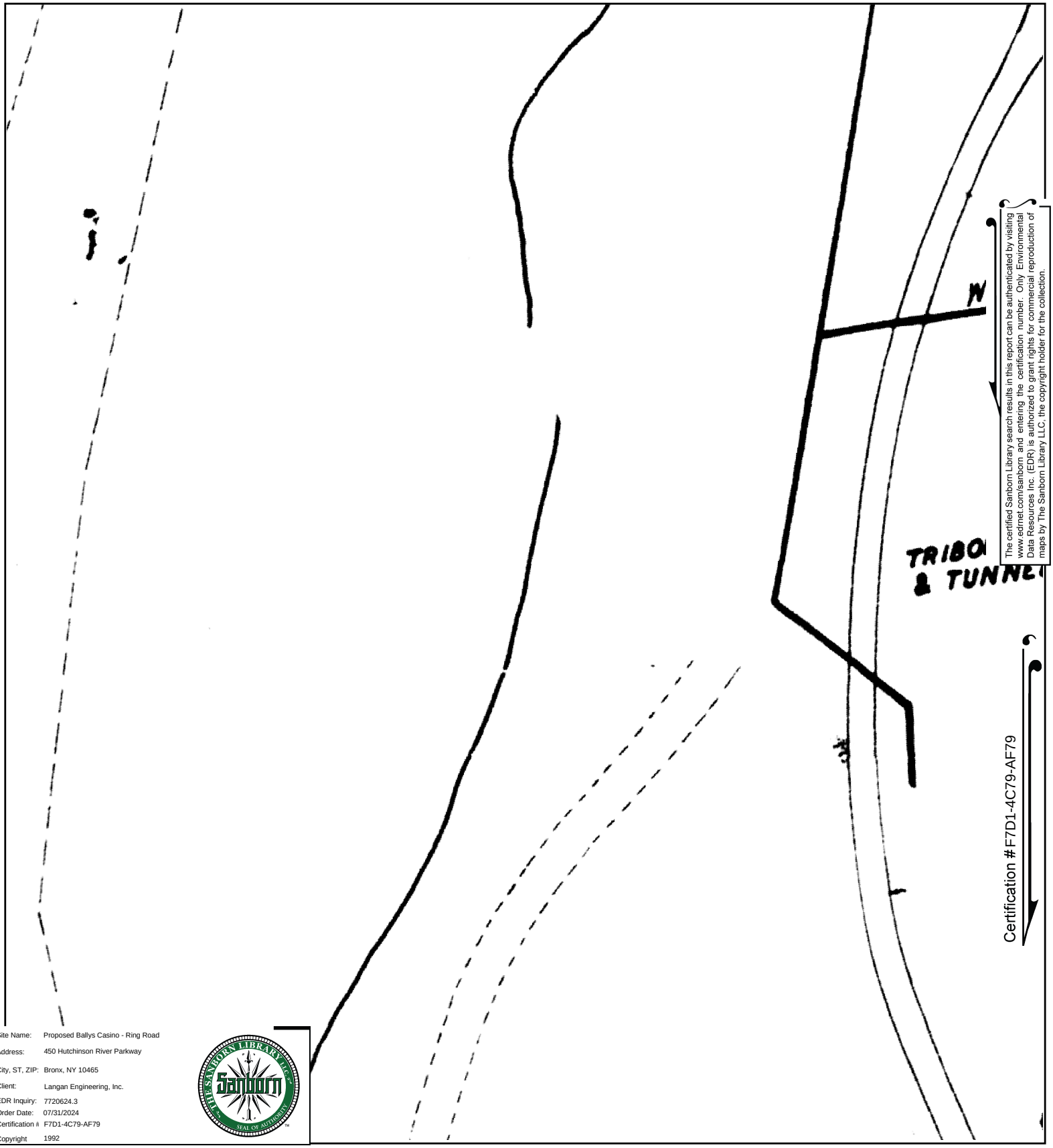

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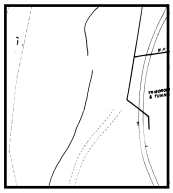

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Certified Sanborn® Map

1991

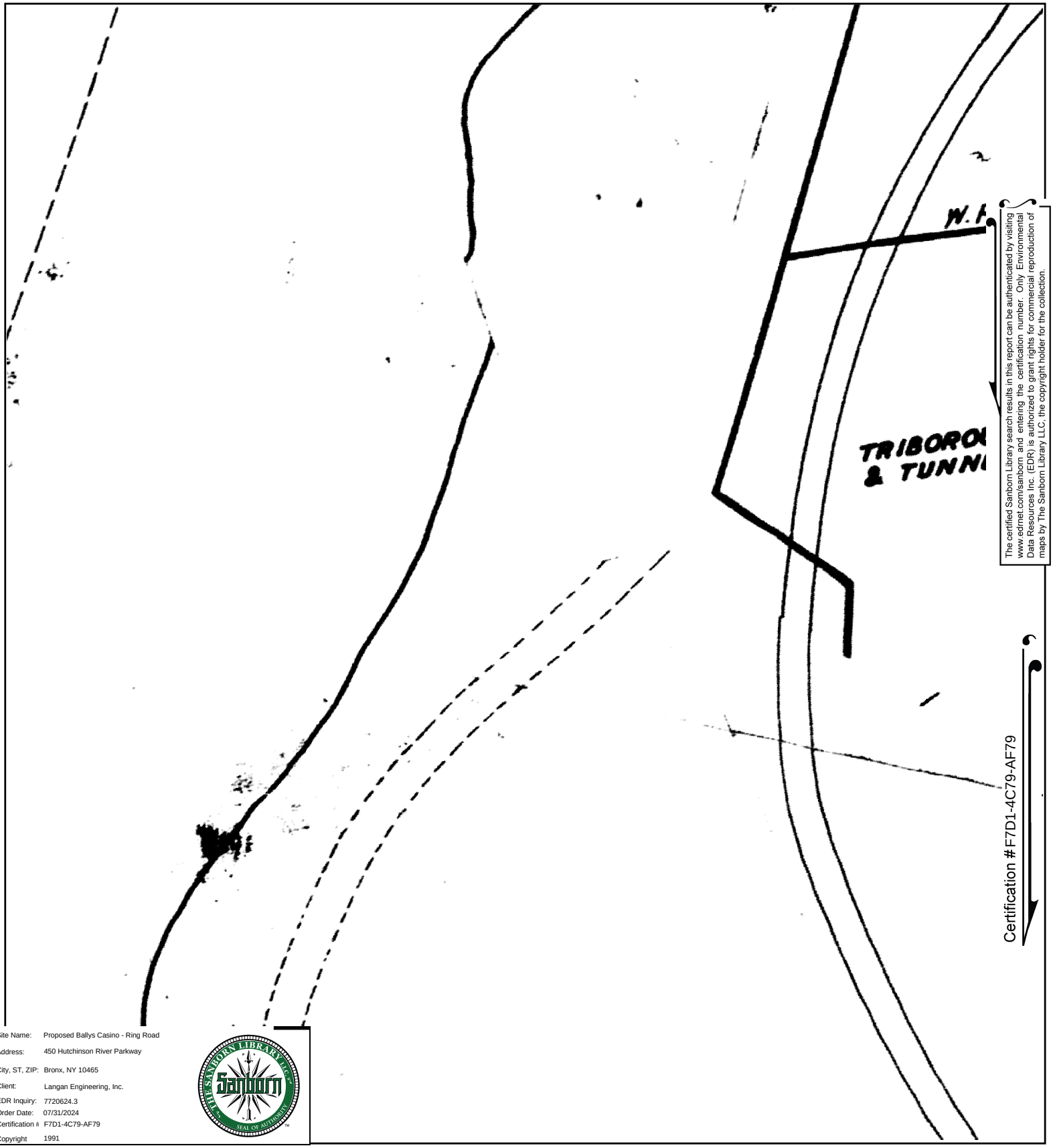

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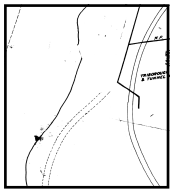

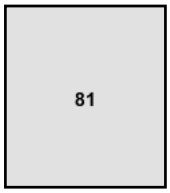

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N

Certified Sanborn® Map

1988

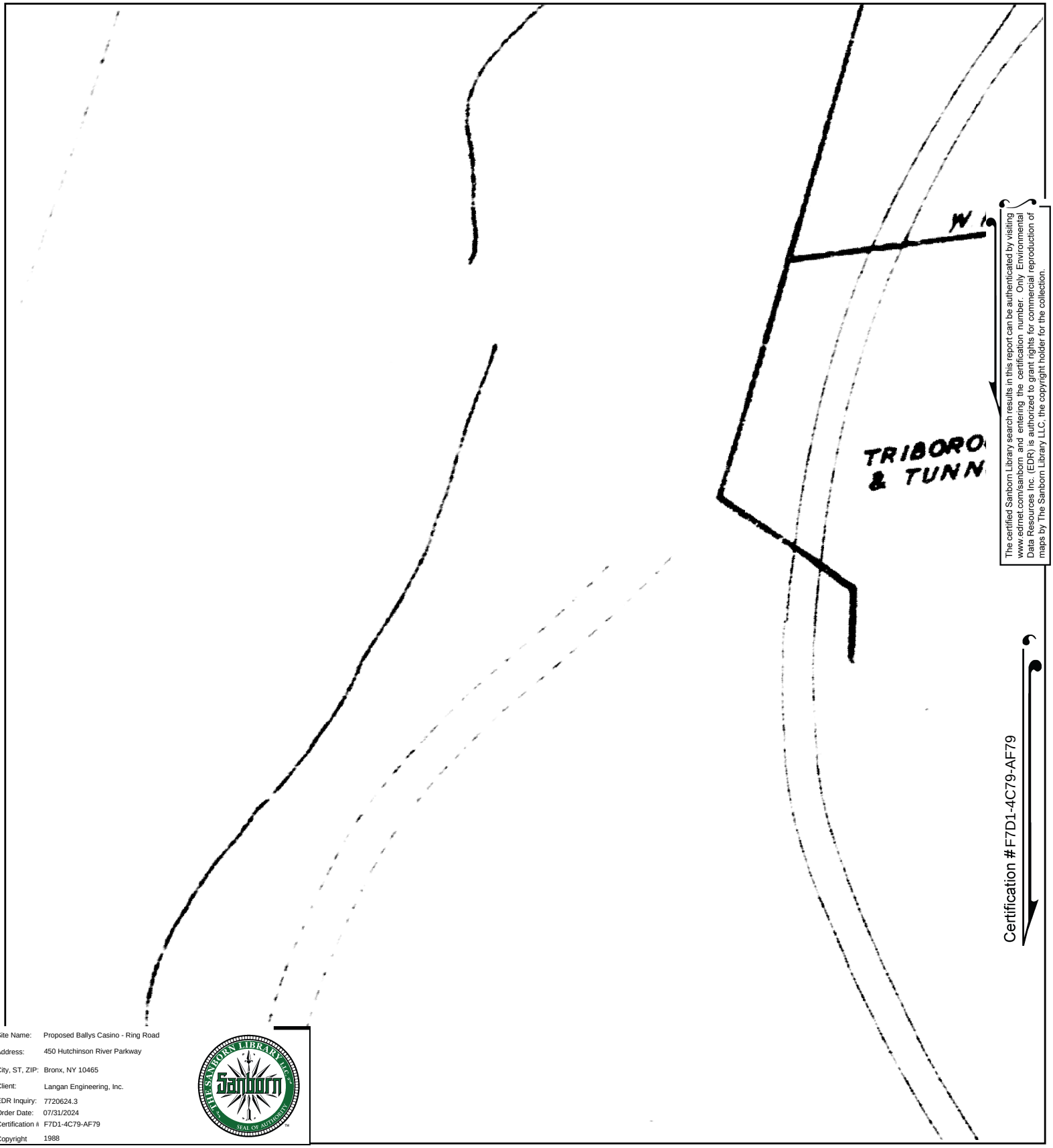

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Certification #F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1988

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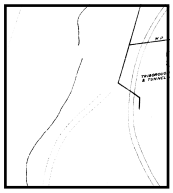

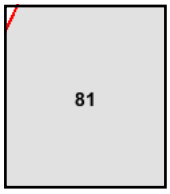

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1986

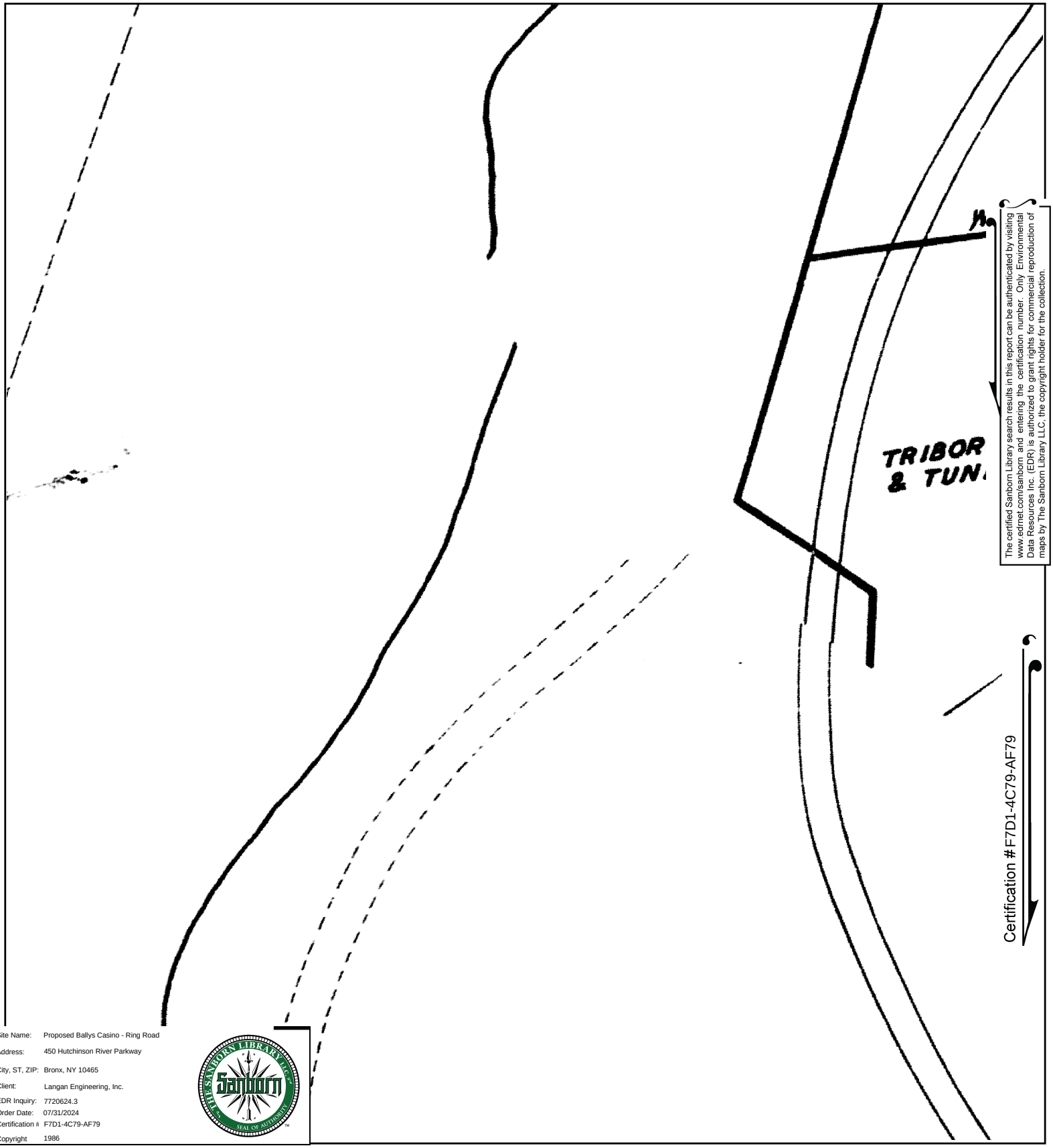

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Certification #	F7D1-4C79-AF79
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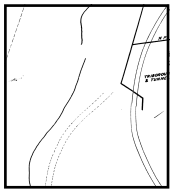

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1983

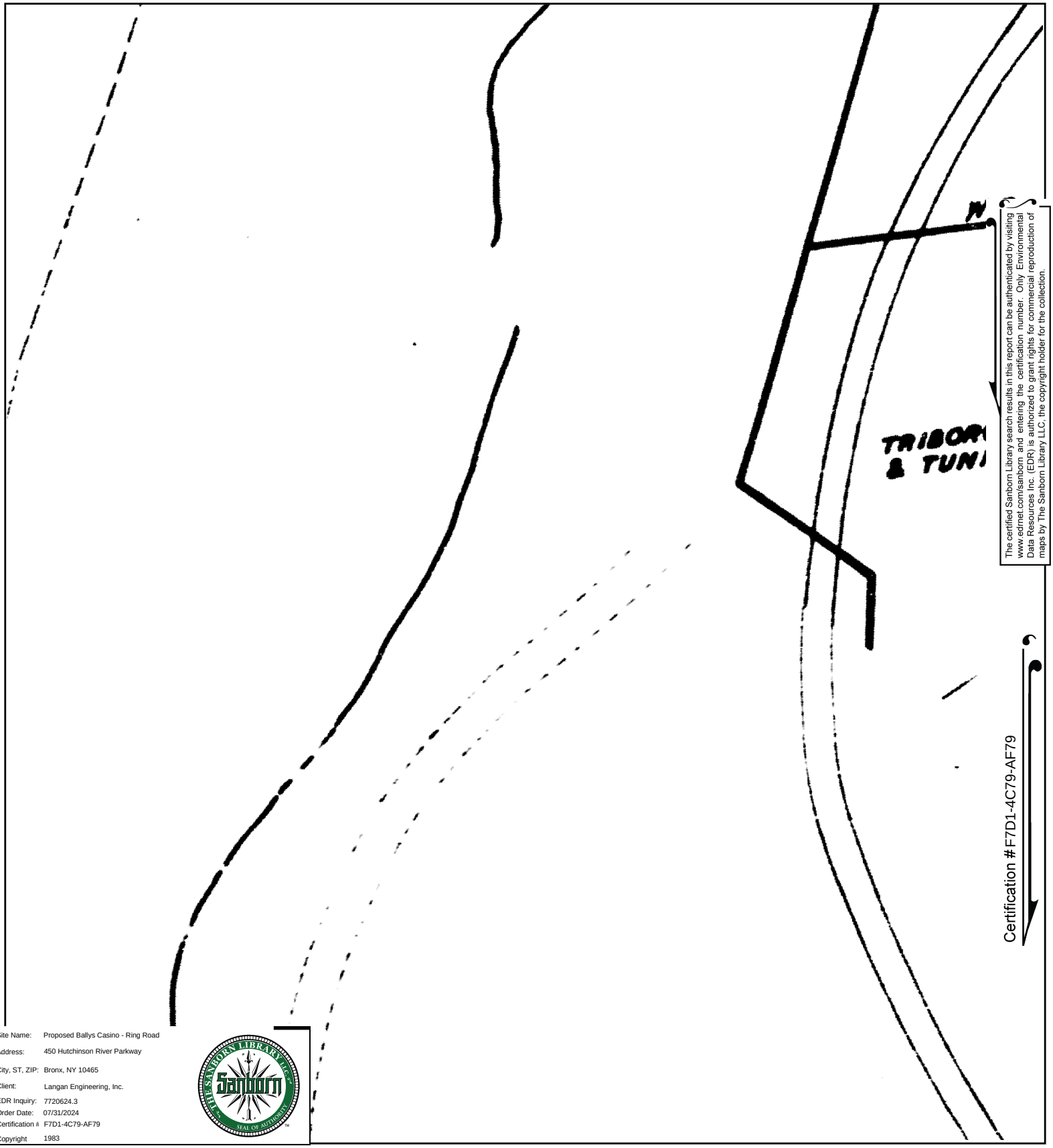

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Certification #	F7D1-4C79-AF79
Copyright	1983

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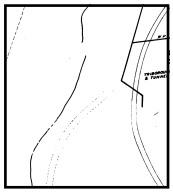

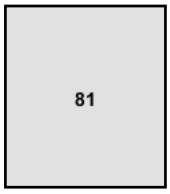

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N

Certified Sanborn® Map

1981

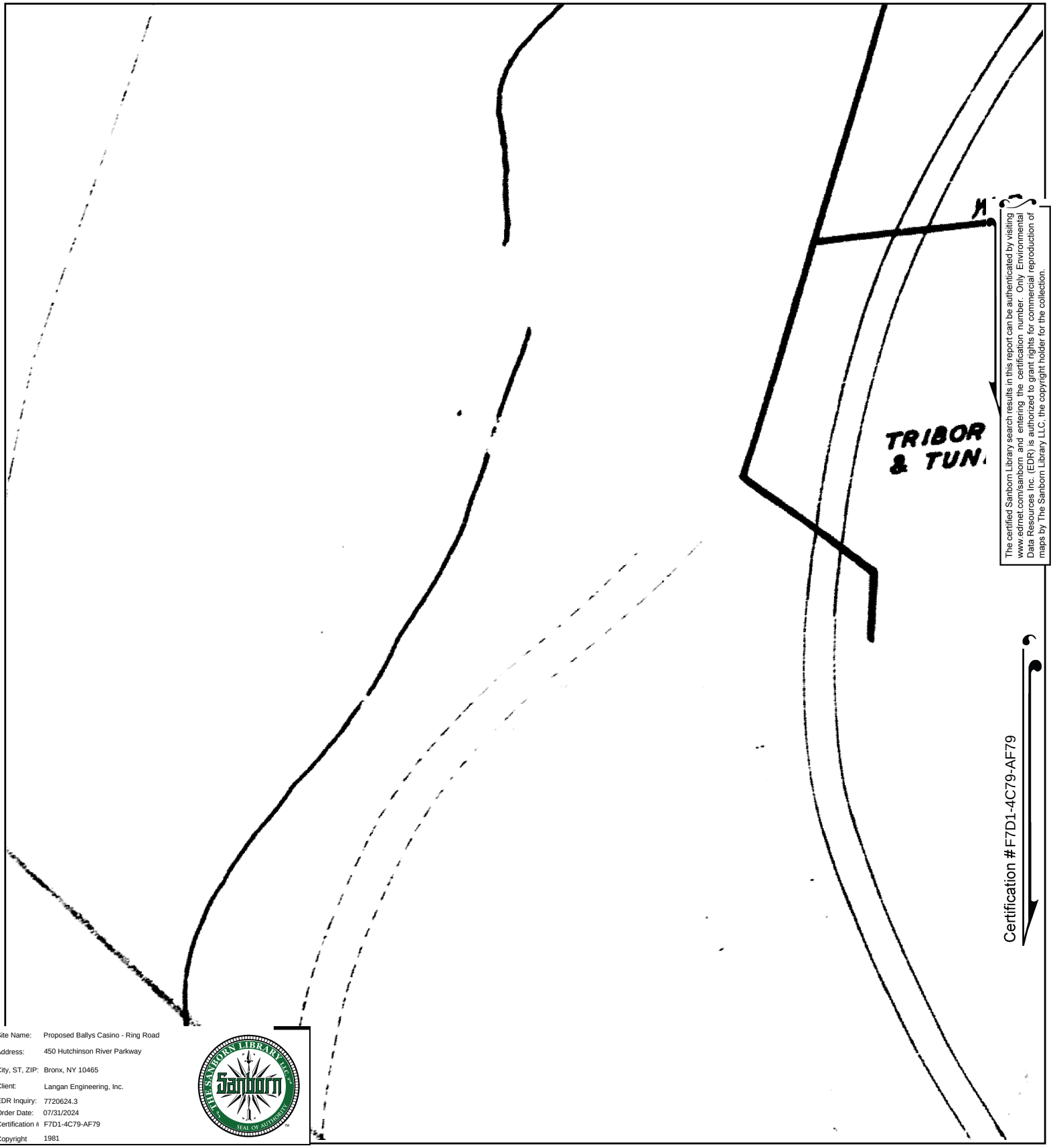

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Certification #	F7D1-4C79-AF79
Copyright	1981

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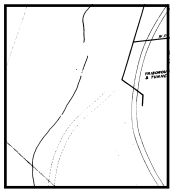

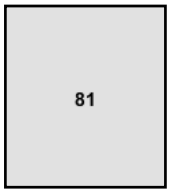

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1978

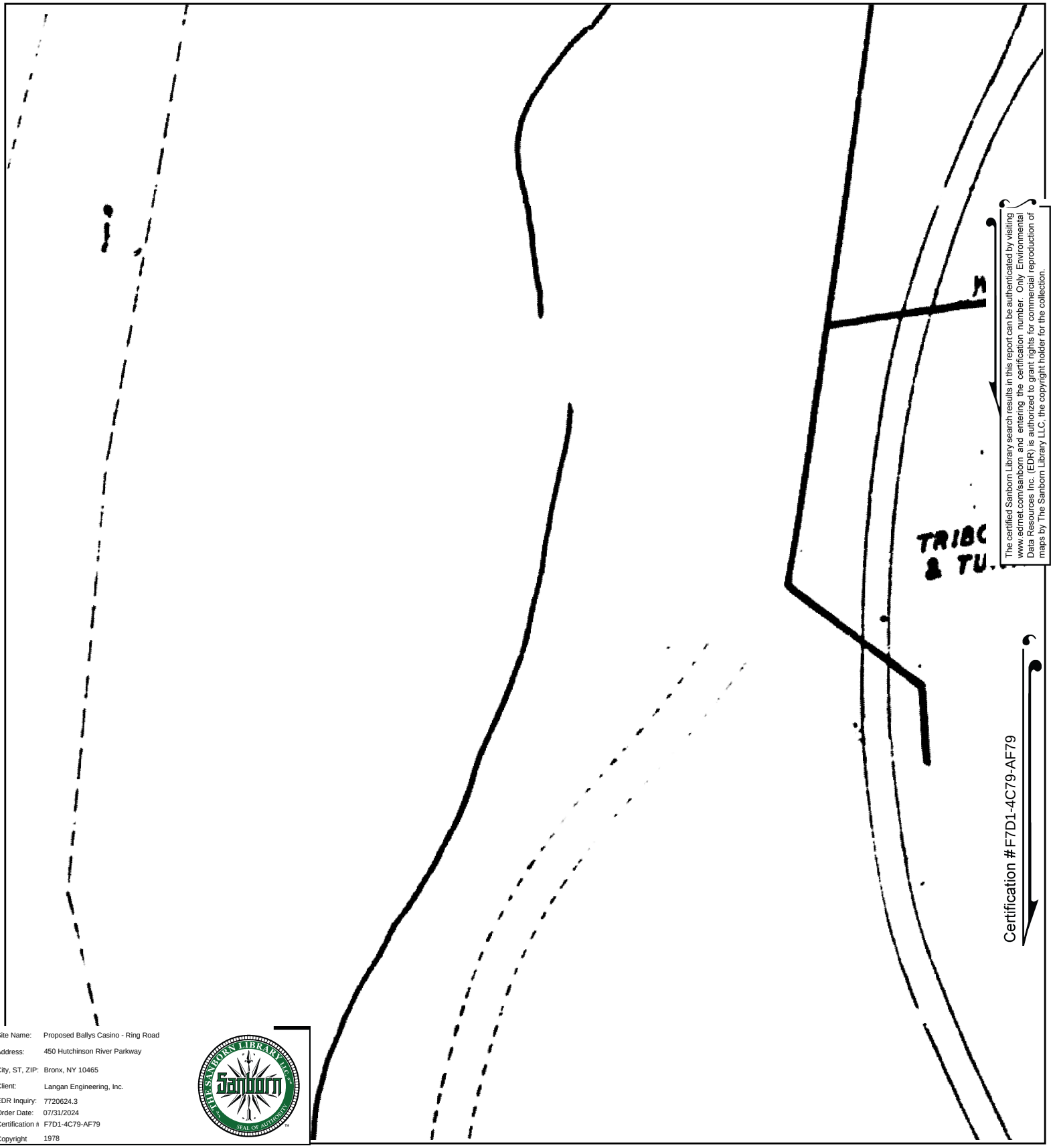

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Certification #	F7D1-4C79-AF79
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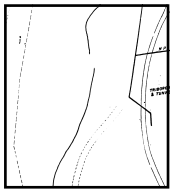

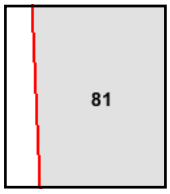

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1977

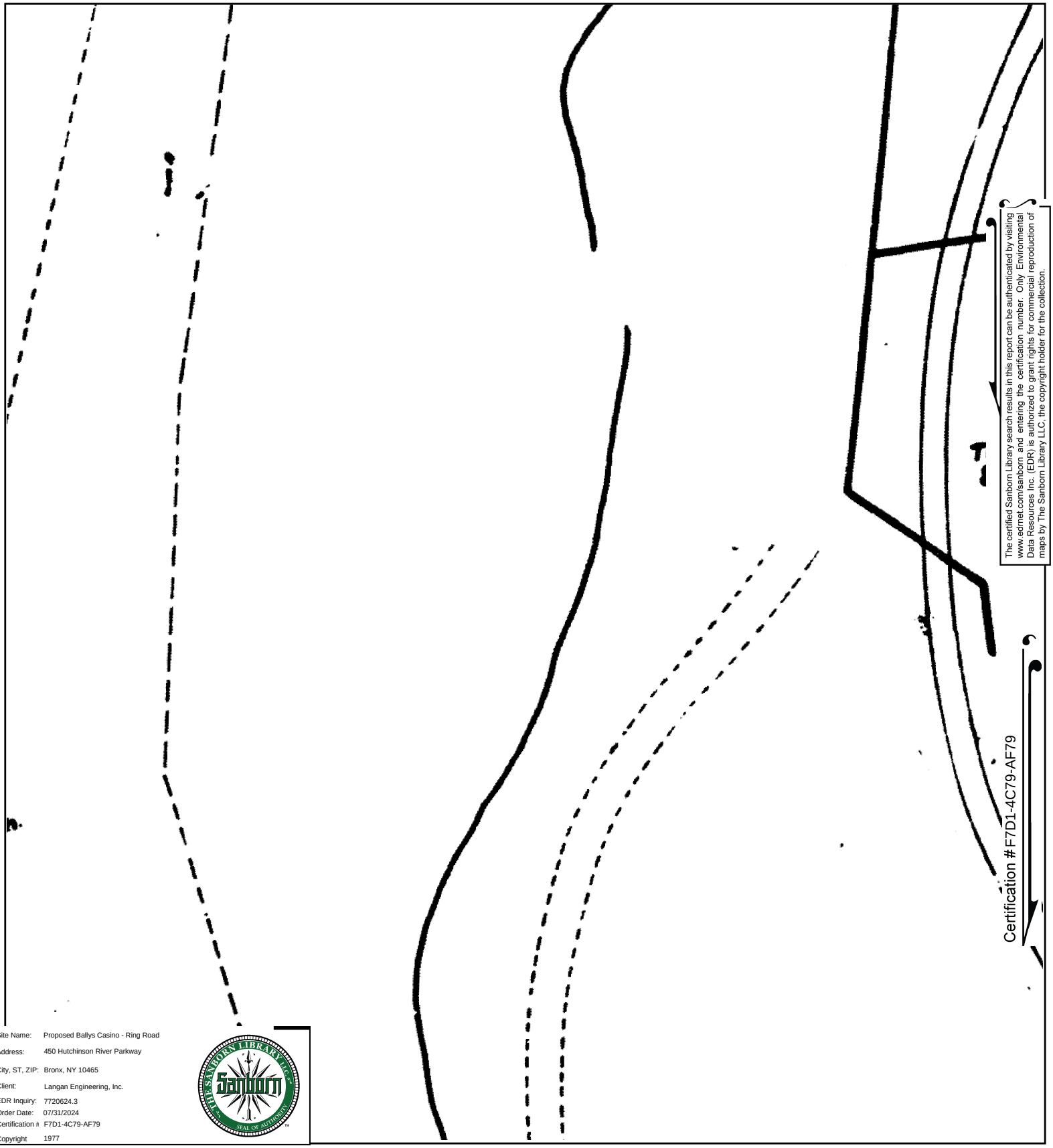

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Certification #	F7D1-4C79-AF79
Copyright	1977

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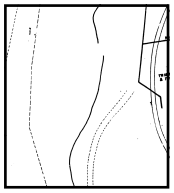

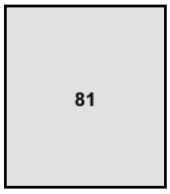

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1967

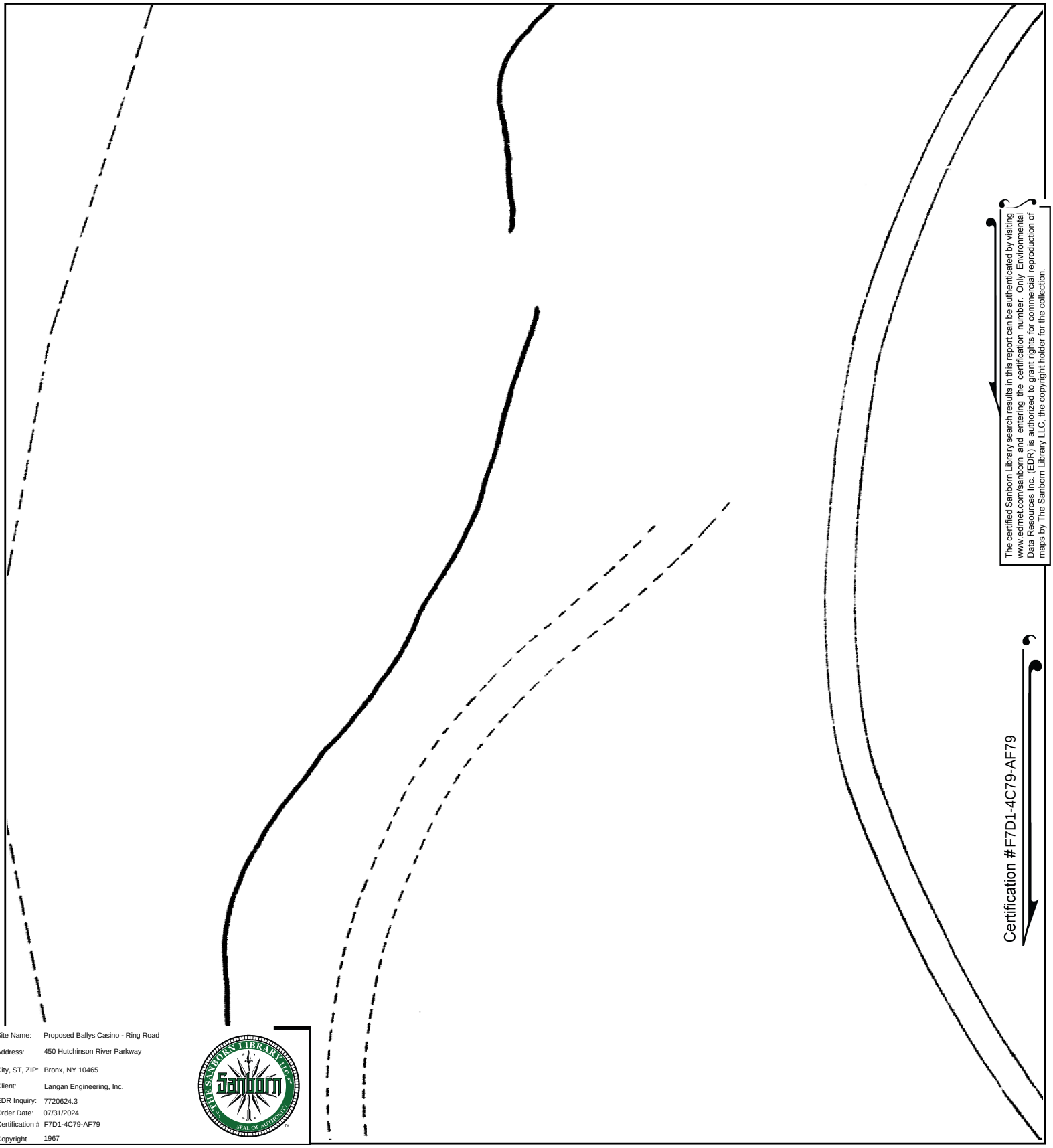

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Copyright	1967

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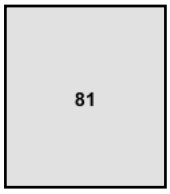

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1950

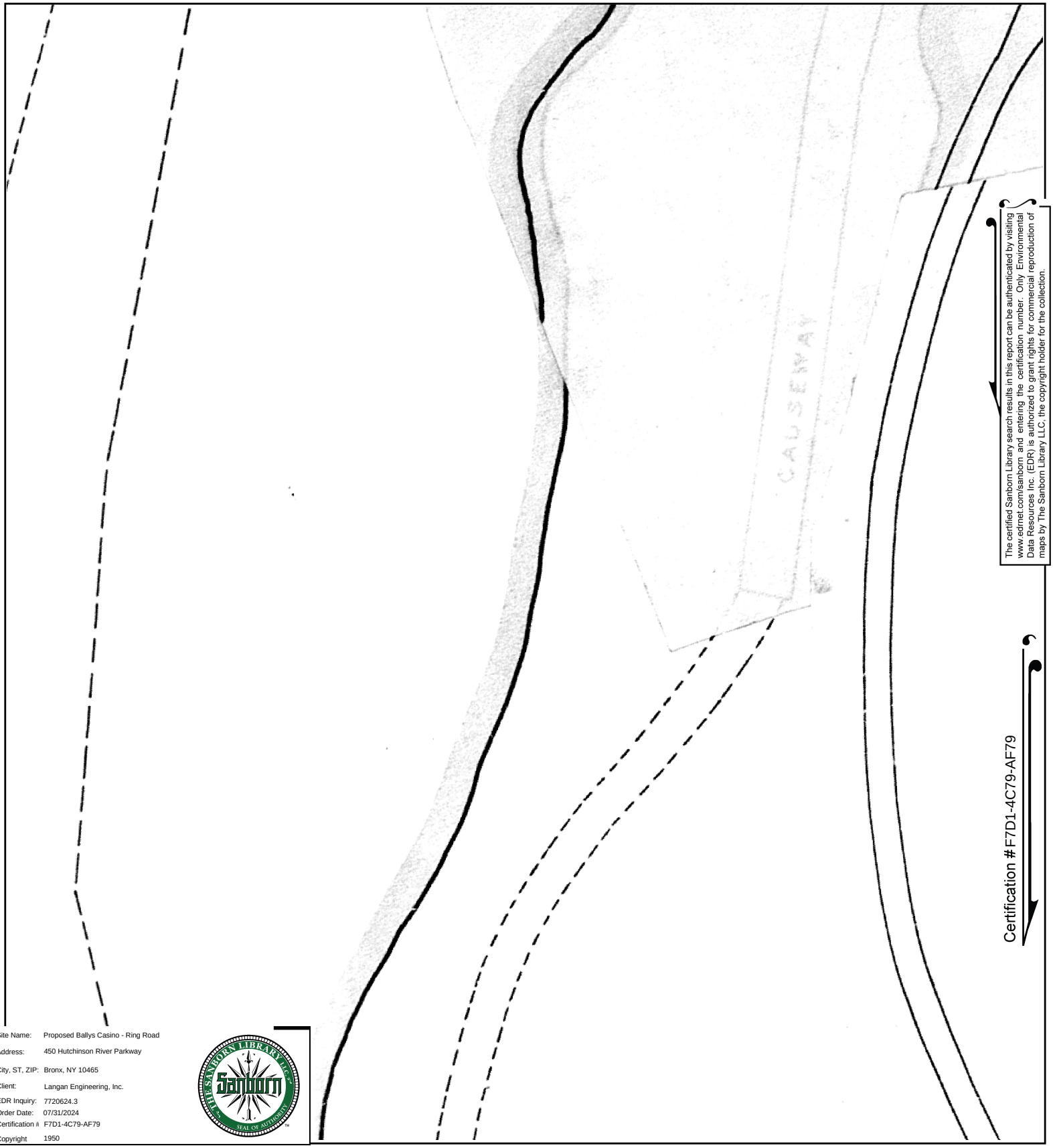

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City, ST, ZIP: Bronx, NY 10465
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Order Date: 07/31/2024
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Copyright 1950

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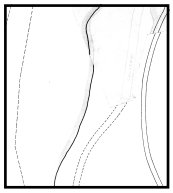

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1930

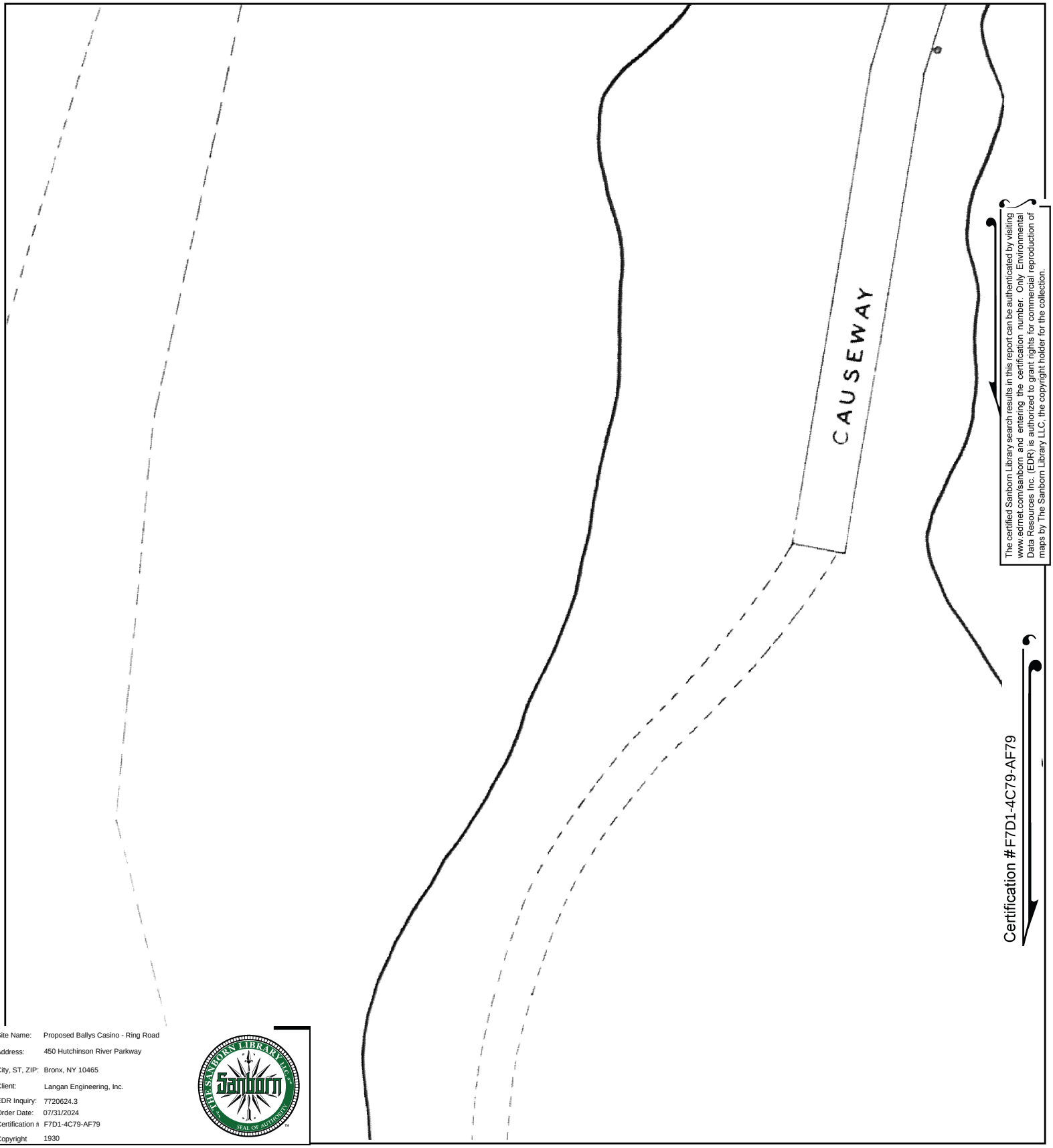

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Certification #	F7D1-4C79-AF79
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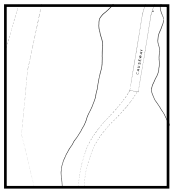

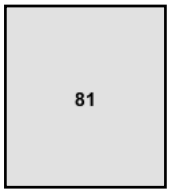

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Certified Sanborn® Map

1919

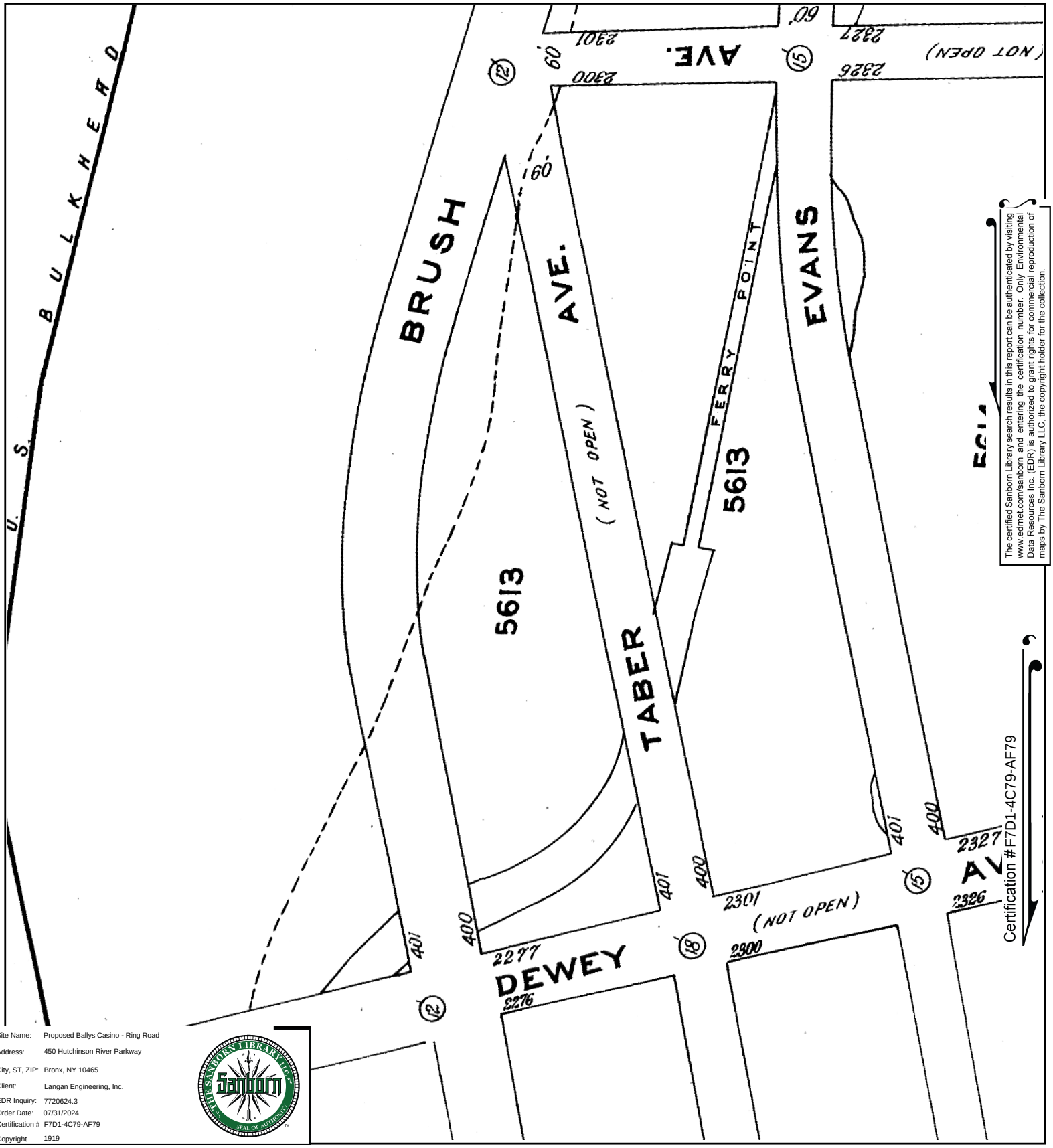

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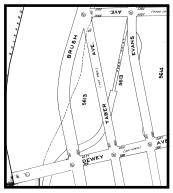

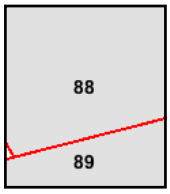

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Certified Sanborn® Map

1908

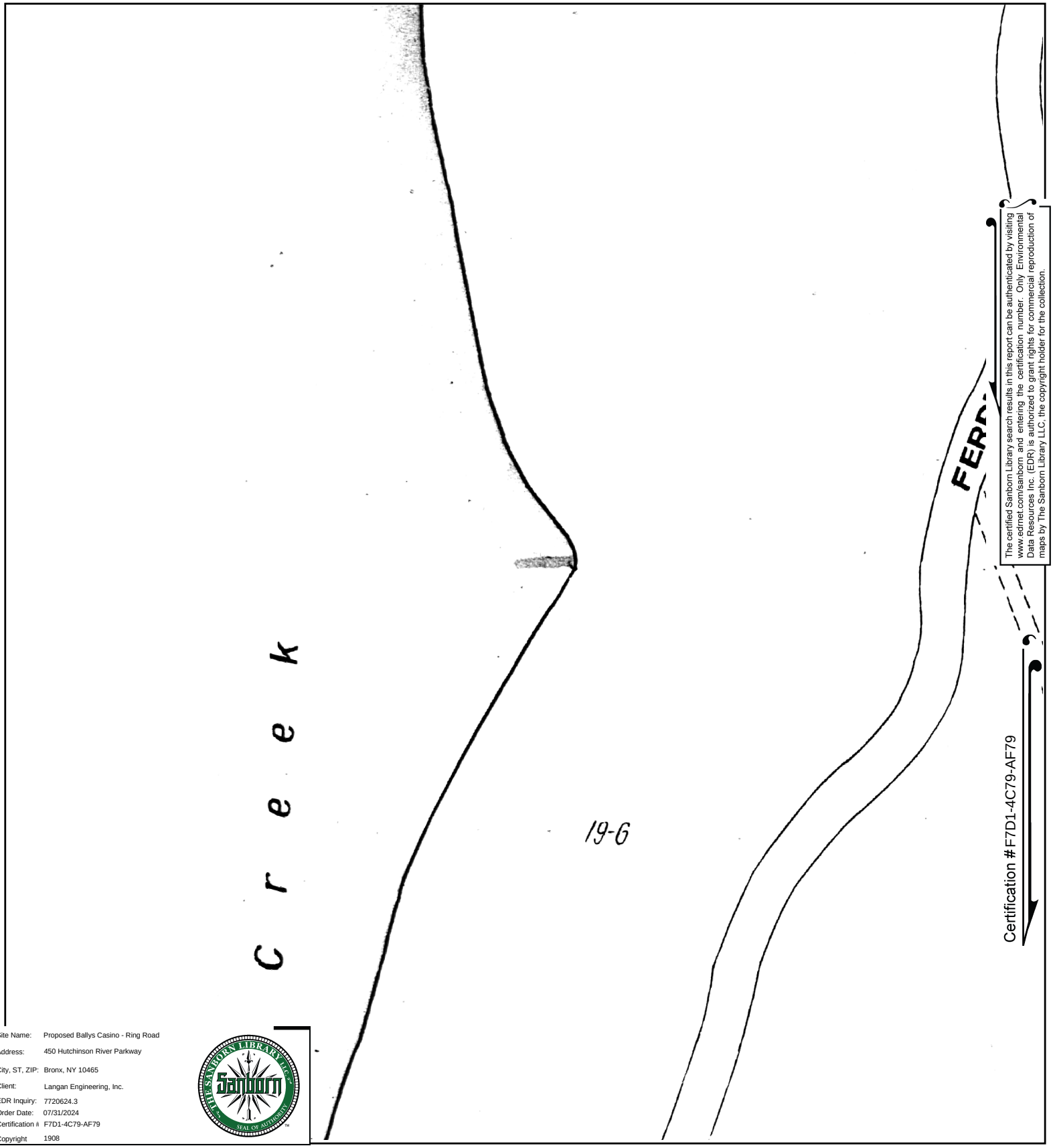

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Copyright	1908

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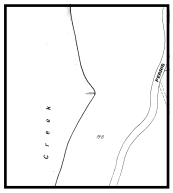

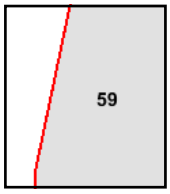

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N

Certified Sanborn® Map

1898

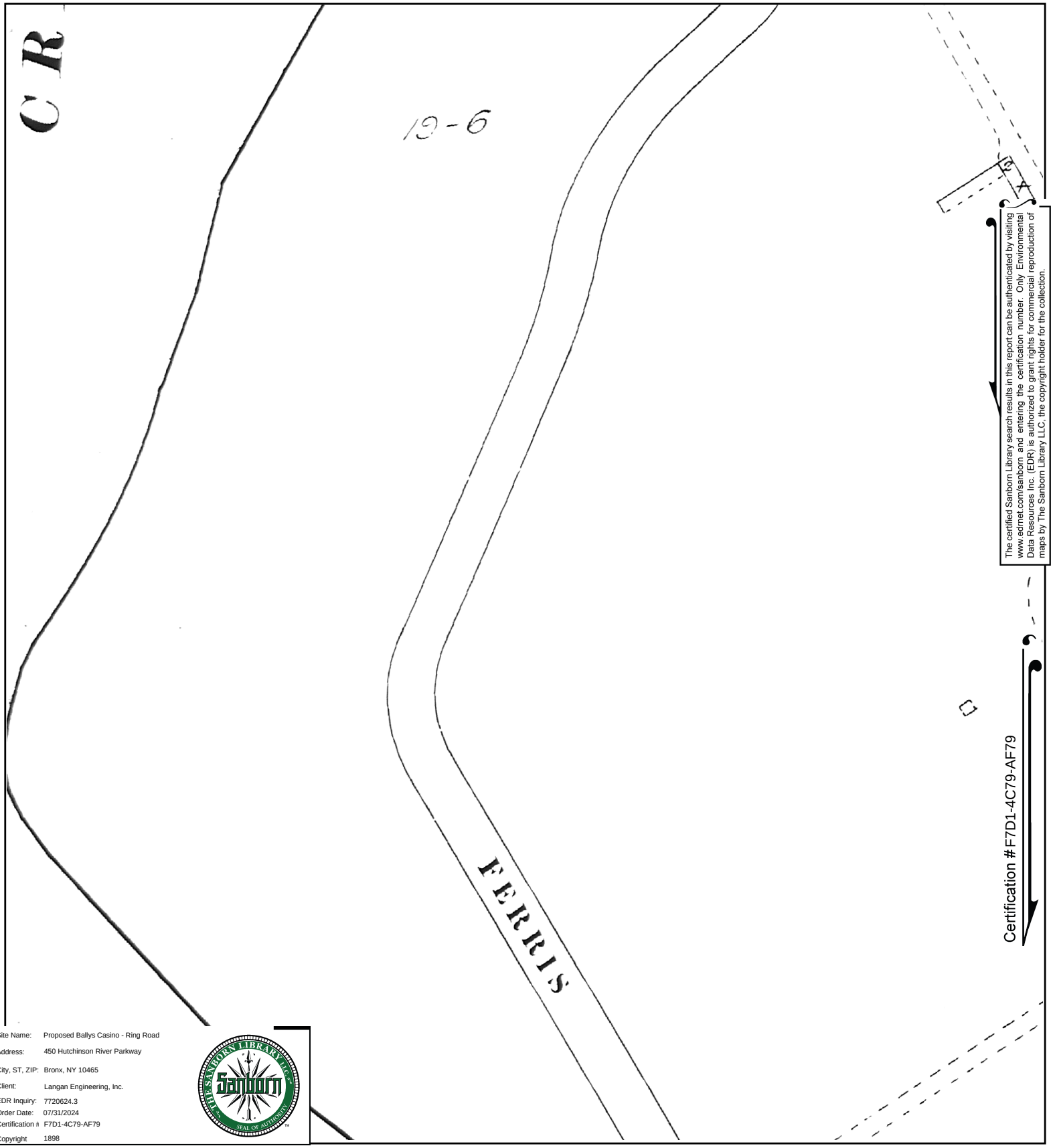

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EDR Inquiry:	7720624.3
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Certification #	F7D1-4C79-AF79
Copyright	1898

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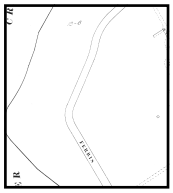

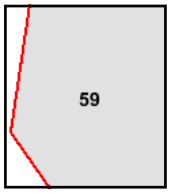

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N

Proposed Ballys Casino - Ring Road

450 Hutchinson River Parkway

Bronx, NY 10465

Inquiry Number: 7720624.3

July 31, 2024

Certified Sanborn® Map Report

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Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

07/31/24

Site Name:	Client Name:
Proposed Ballys Casino - Ring	Langan Engineering, Inc.
450 Hutchinson River Parkway	360 W. 31st Street
Bronx, NY 10465	New York, NY 10001
EDR Inquiry # 7720624.3	Contact: Kaitlyn Gioia

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Certified Sanborn Results:

Certification # F7D1-4C79-AF79

PO # 170773001

Project Prpsd Bally s Casino - Ring Rd

Maps Provided:

2007	1996	1981	1898
2006	1995	1978	
2005	1993	1977	
2004	1992	1967	
2003	1991	1950	
2002	1988	1930	
2001	1986	1919	
1998	1983	1908	

Sanborn® Library search results

Certification #: F7D1-4C79-AF79

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- ✔ Library of Congress
- ✔ University Publications of America
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Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2007 Source Sheets

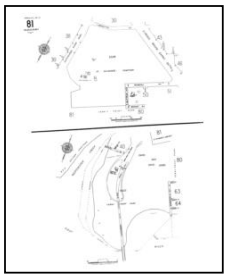

Volume 21, Sheet 81
2007

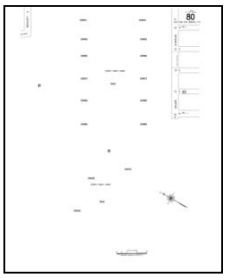

Volume 21, Sheet 80
2007

2006 Source Sheets

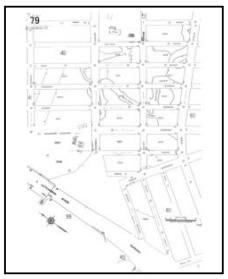

Volume 21, Sheet 79
2006

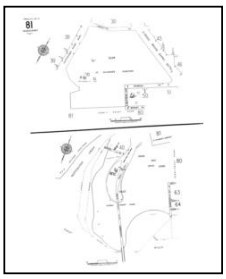

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2006

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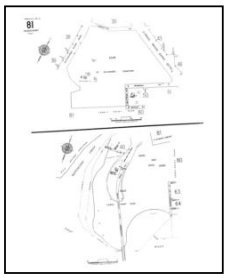

Volume 21, Sheet 81
2005

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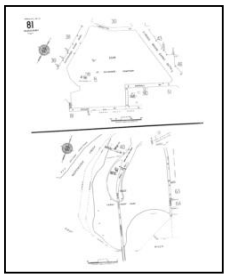

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2004

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2003 Source Sheets

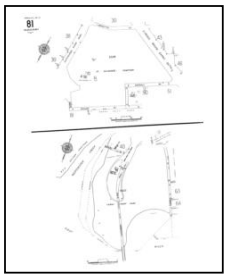

Volume 21, Sheet 81
2003

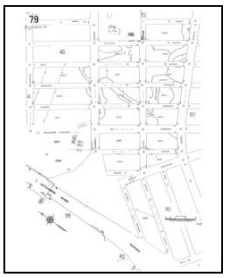

Volume 21, Sheet 79
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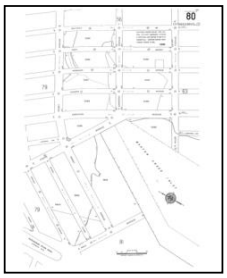

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2003

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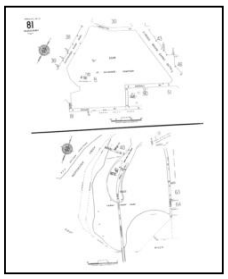

Volume 21, Sheet 81
2002

2001 Source Sheets

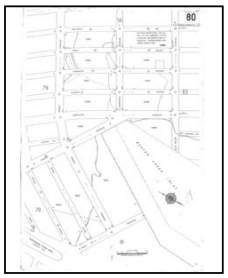

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2001

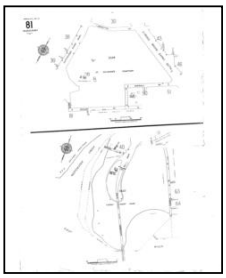

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2001

1998 Source Sheets

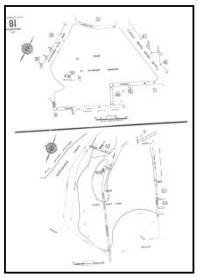

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1998

Sanborn Sheet Key

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1996 Source Sheets

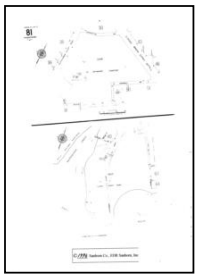

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1996

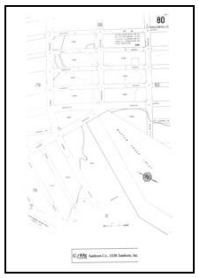

Volume 21, Sheet 80
1996

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1996

1995 Source Sheets

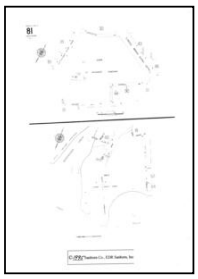

Volume 21, Sheet 81
1995

1993 Source Sheets

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1993

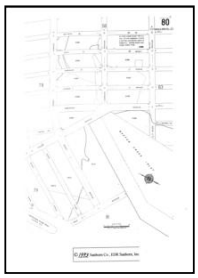

Volume 21, Sheet 80
1993

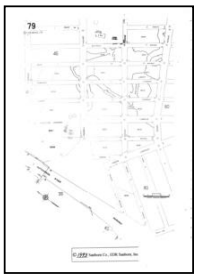

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1993

1992 Source Sheets

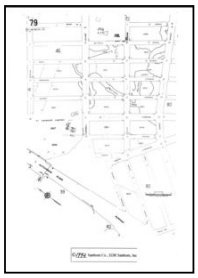

Volume 21, Sheet 79
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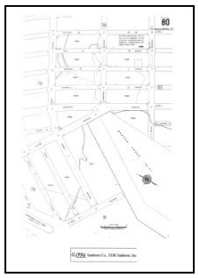

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1992

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1992

Sanborn Sheet Key

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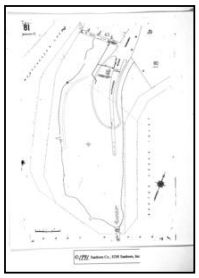

Volume 21, Sheet 81
1991

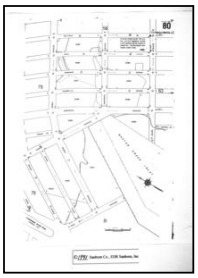

Volume 21, Sheet 80
1991

1988 Source Sheets

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1988

1986 Source Sheets

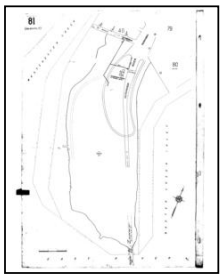

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1986

1983 Source Sheets

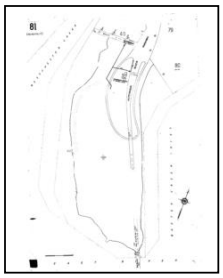

Volume 21, Sheet 81
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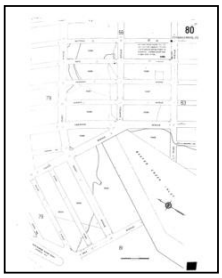

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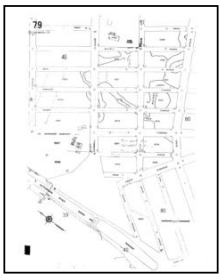

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1983

Sanborn Sheet Key

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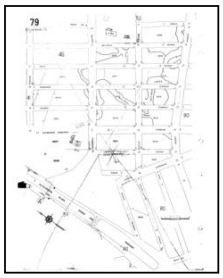

Volume 21, Sheet 79
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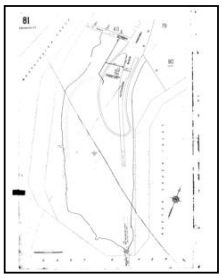

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1981

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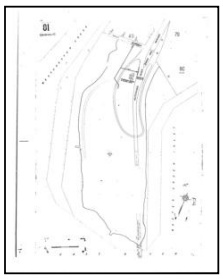

Volume 21, Sheet 81
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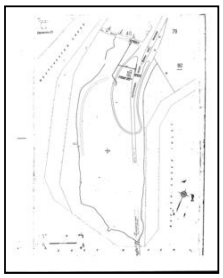

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1977

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1977

1967 Source Sheets

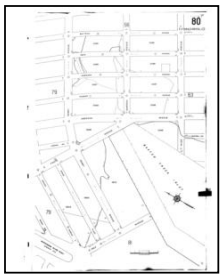

Volume 21, Sheet 80
1967

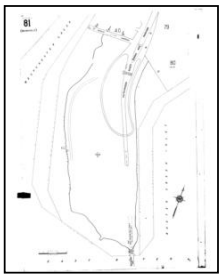

Volume 21, Sheet 81
1967

Sanborn Sheet Key

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1950 Source Sheets

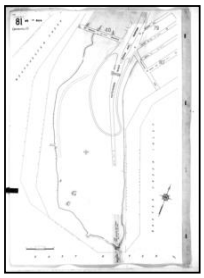

Volume 21, Sheet 81
1950

1930 Source Sheets

Volume 21, Sheet 81
1930

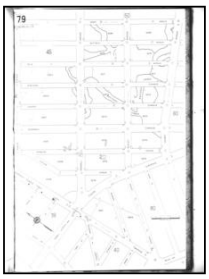

Volume 21, Sheet 79
1930

1919 Source Sheets

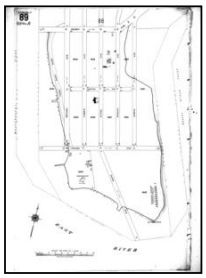

Volume 17, Sheet 89
1919

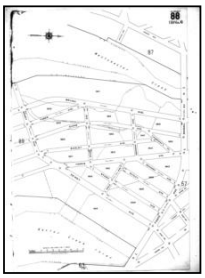

Volume 17, Sheet 88
1919

1908 Source Sheets

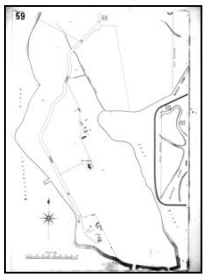

Volume A, Sheet 59
1908

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1898 Source Sheets

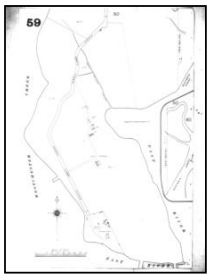

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1898

Certified Sanborn® Map

2007

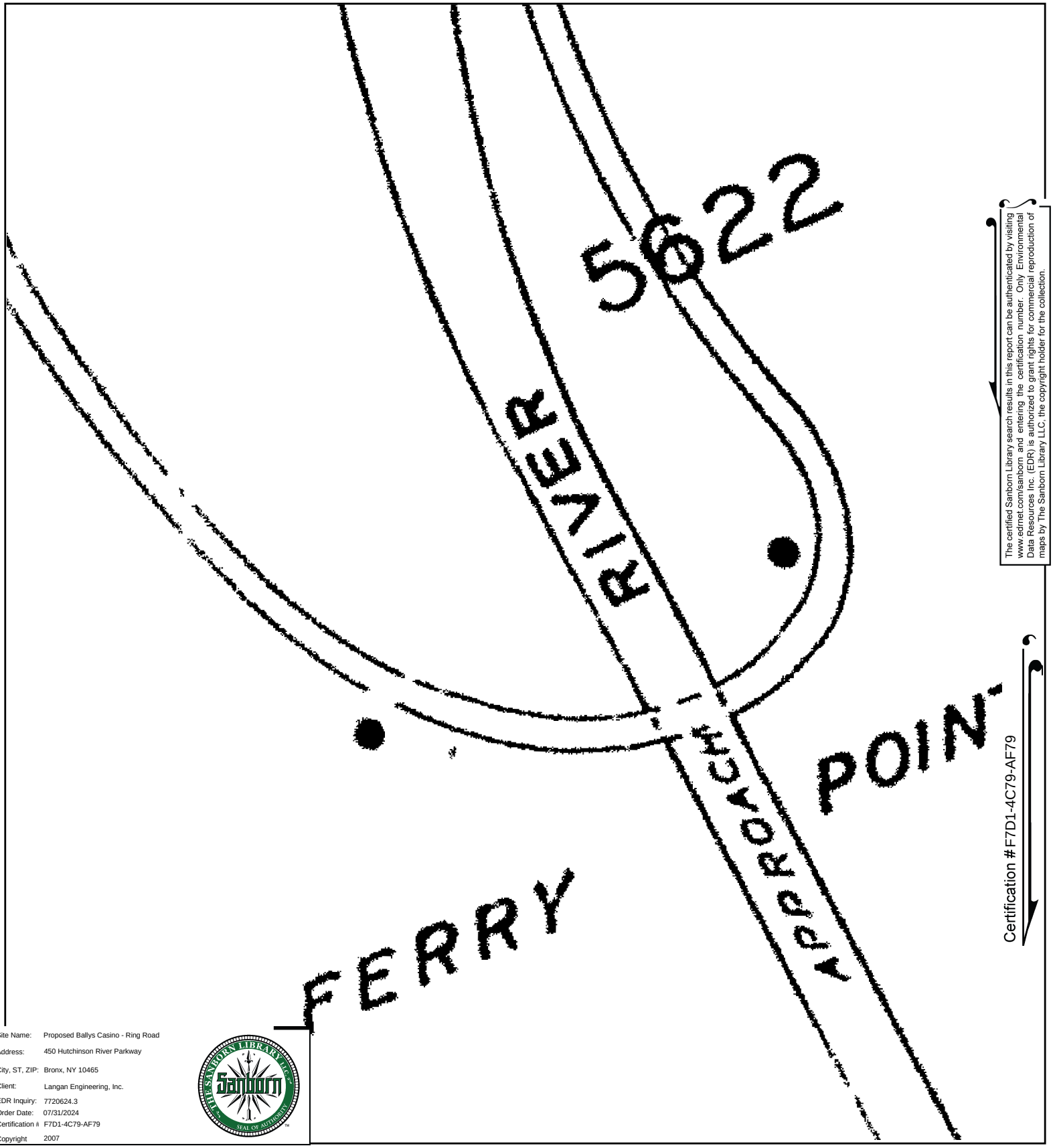

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Certification #F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
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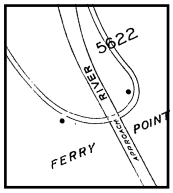

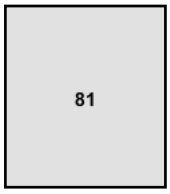

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N

Certified Sanborn® Map

2006

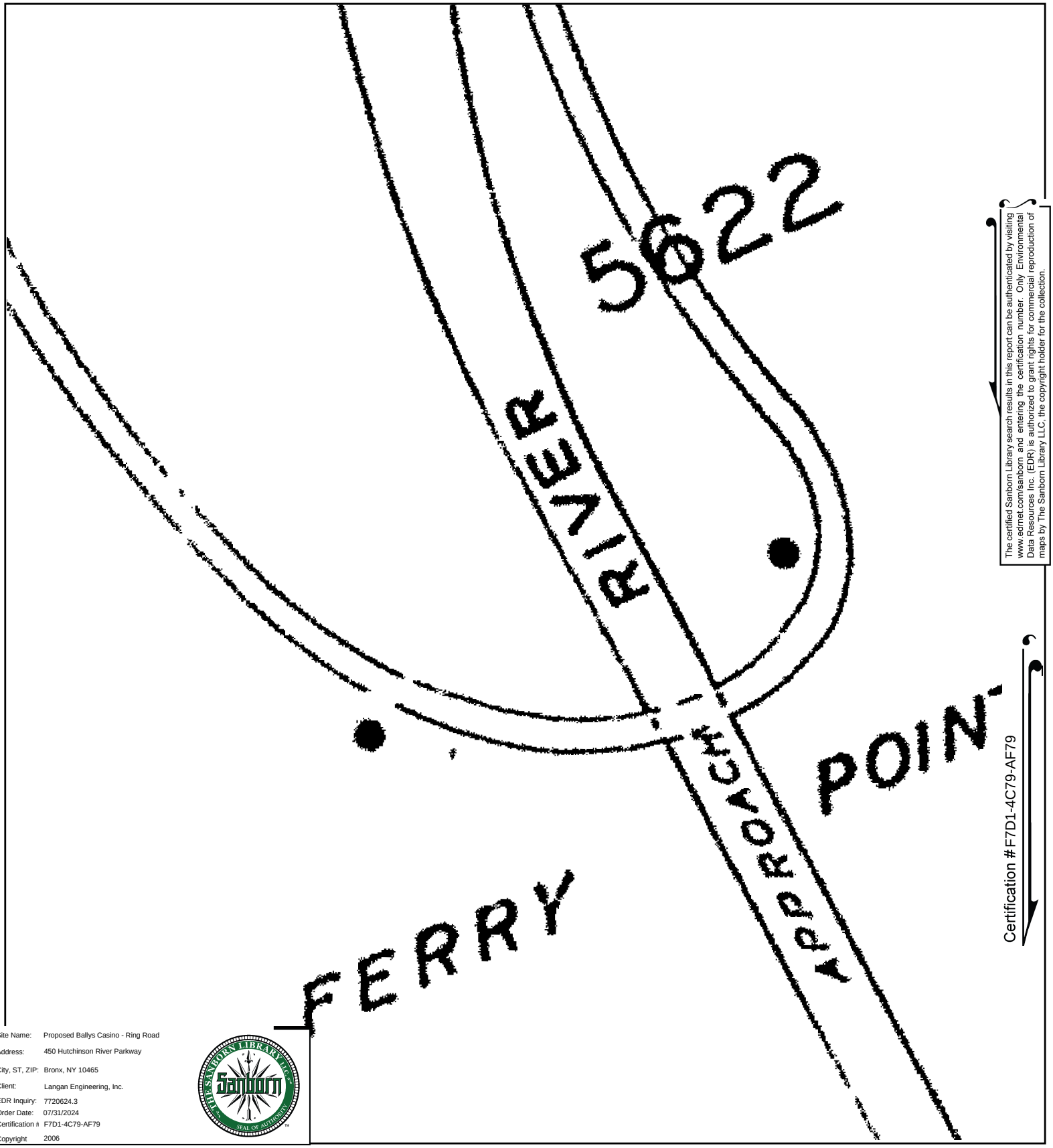

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Copyright	2006

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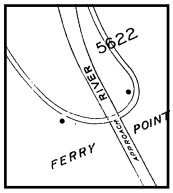

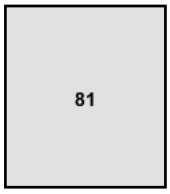

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2005

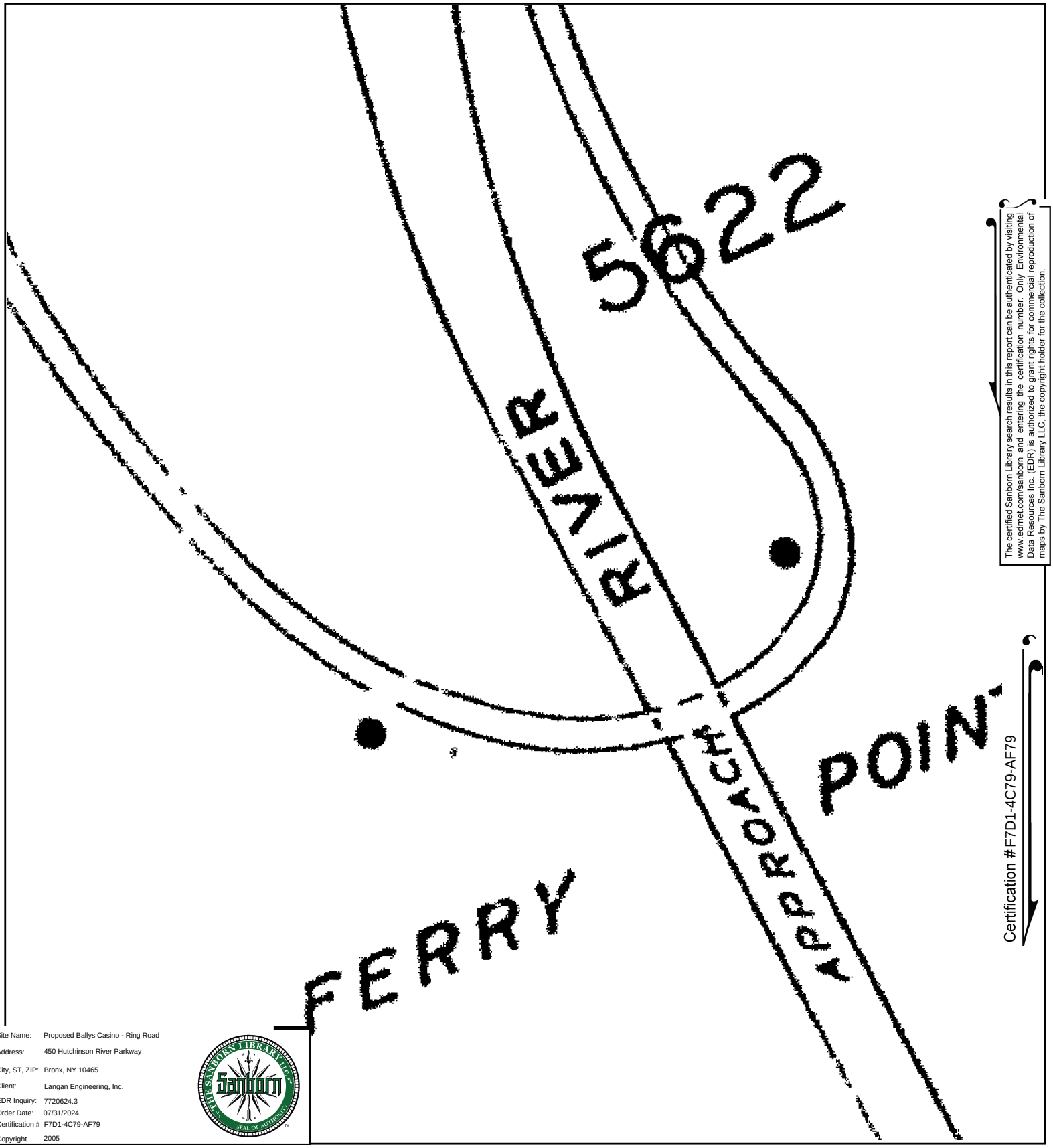

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
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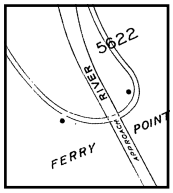

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2004

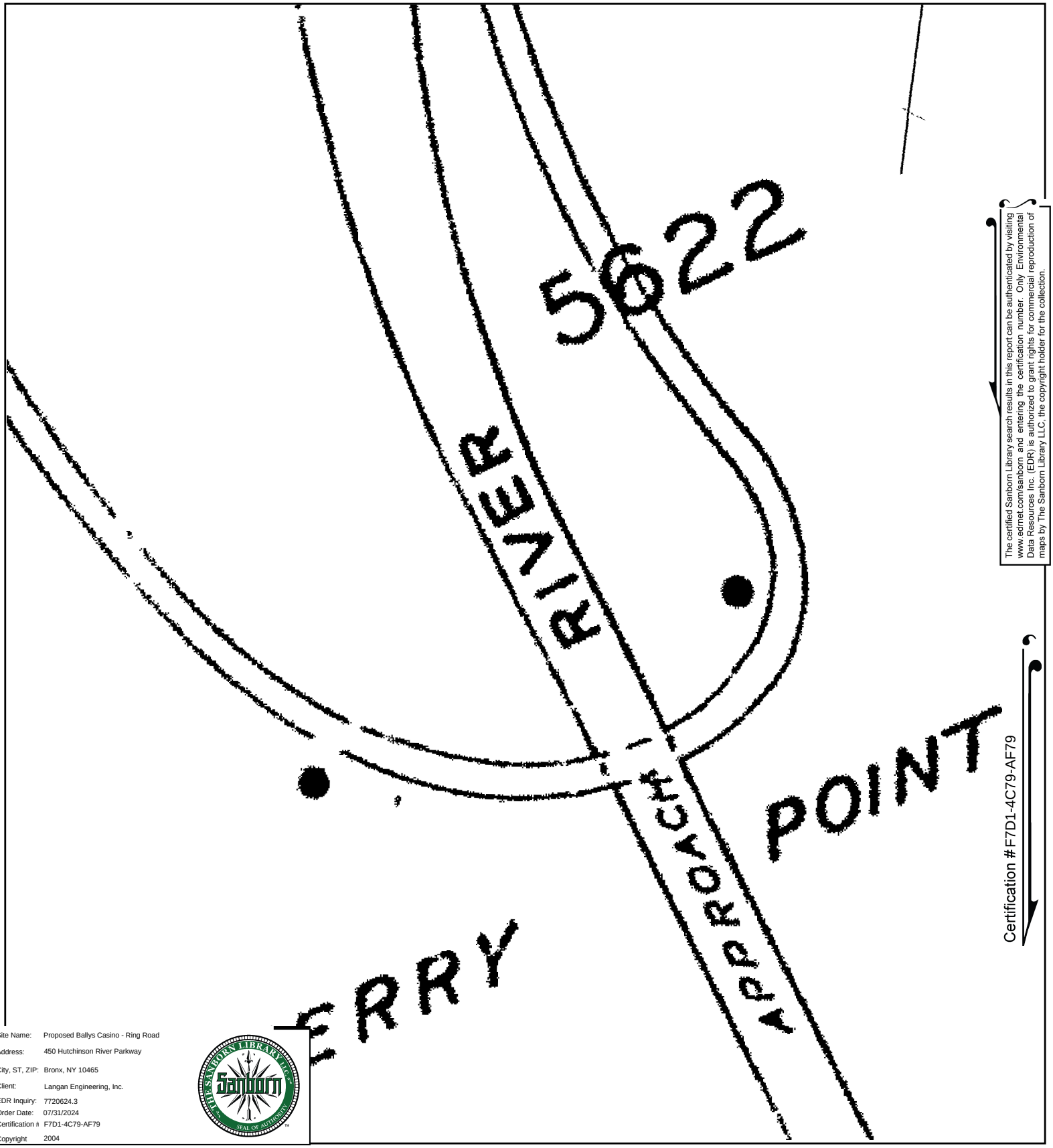

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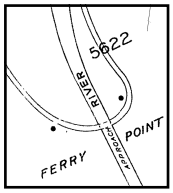

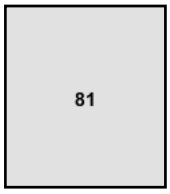

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2003

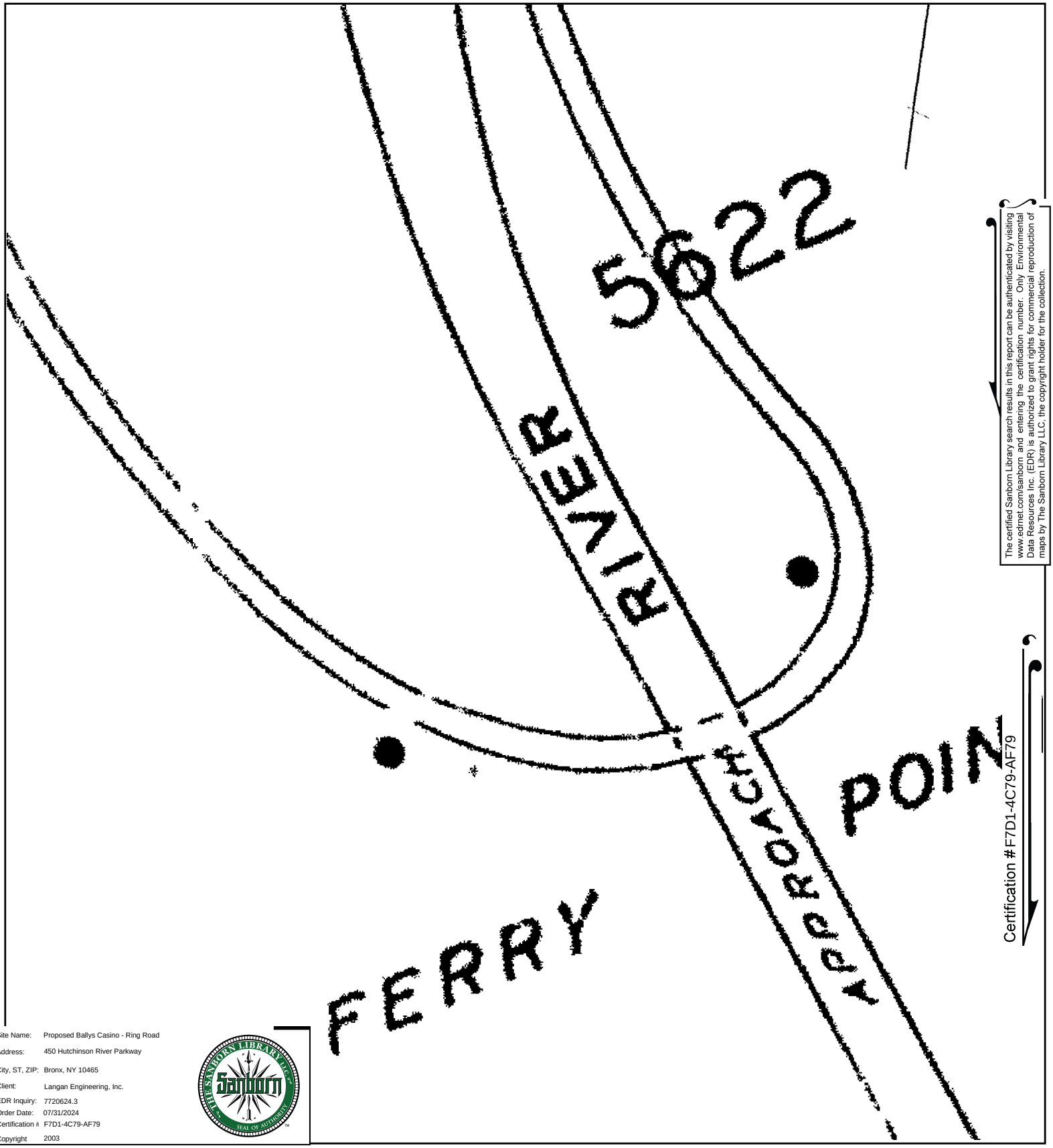

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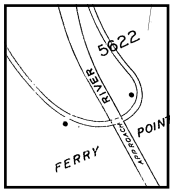

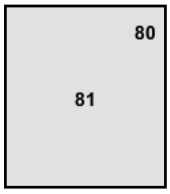

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2002

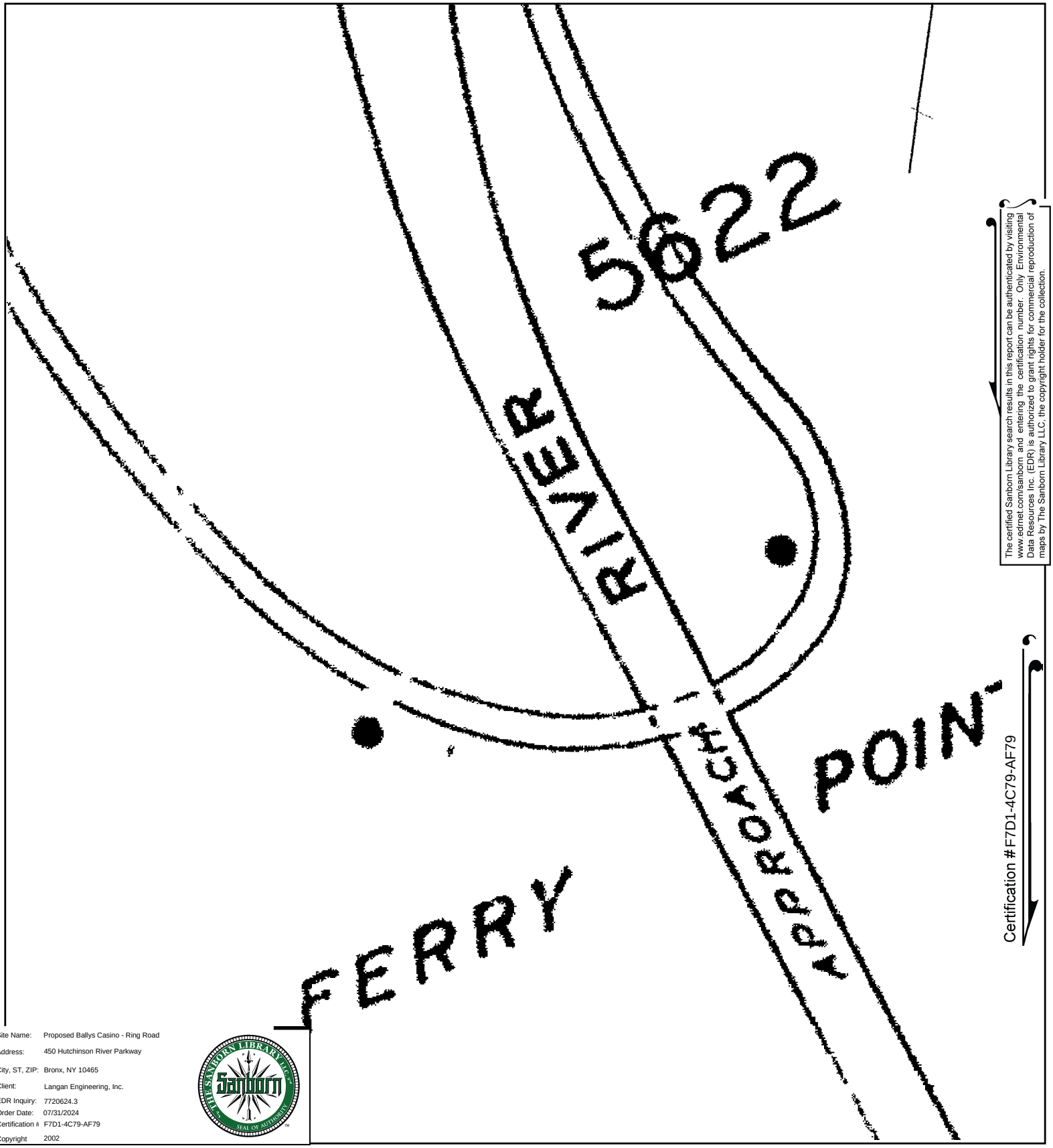

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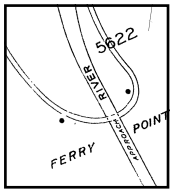

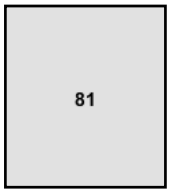

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2001

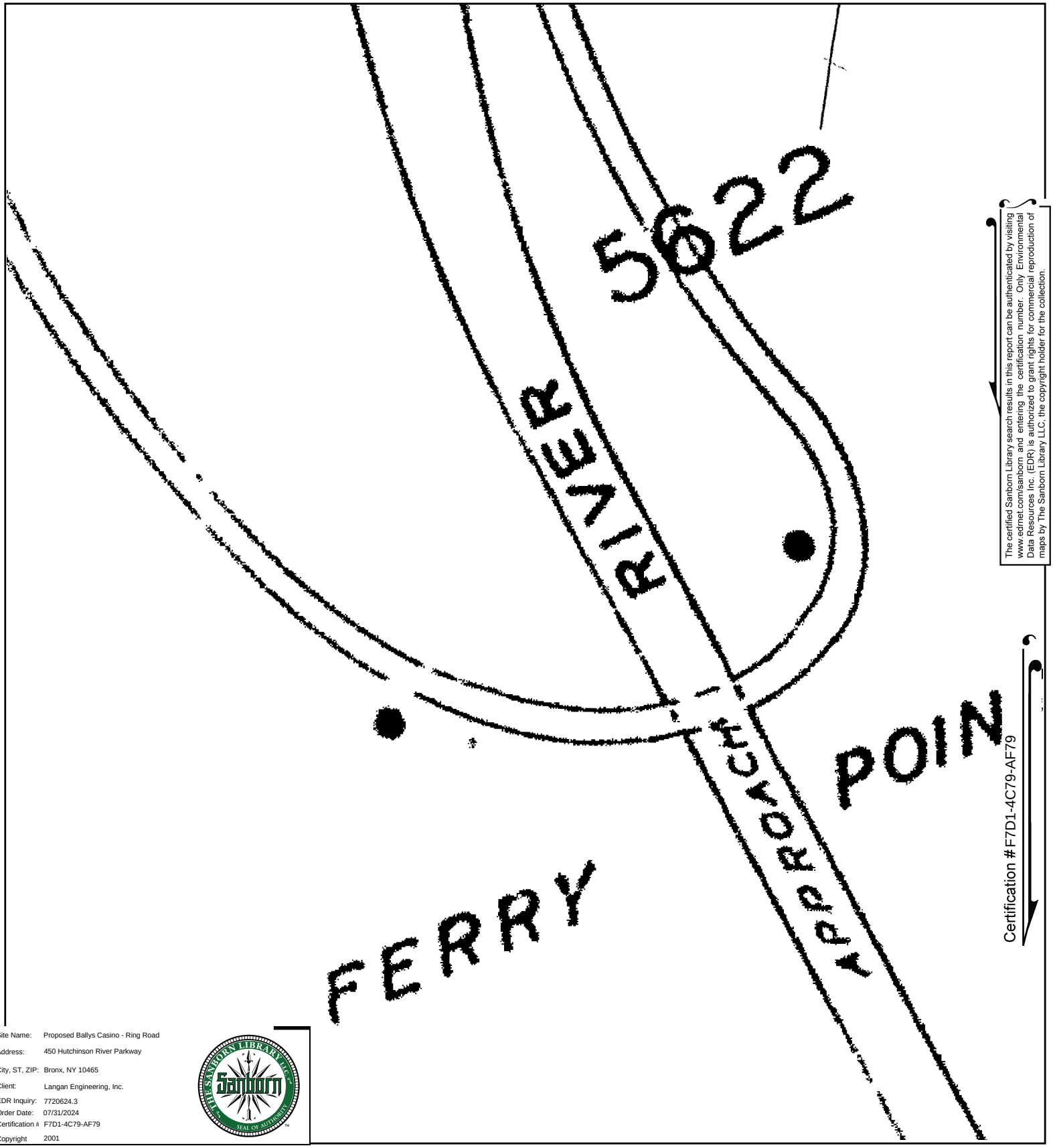

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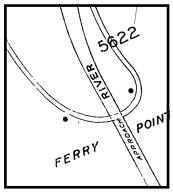

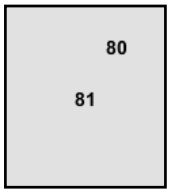

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1998

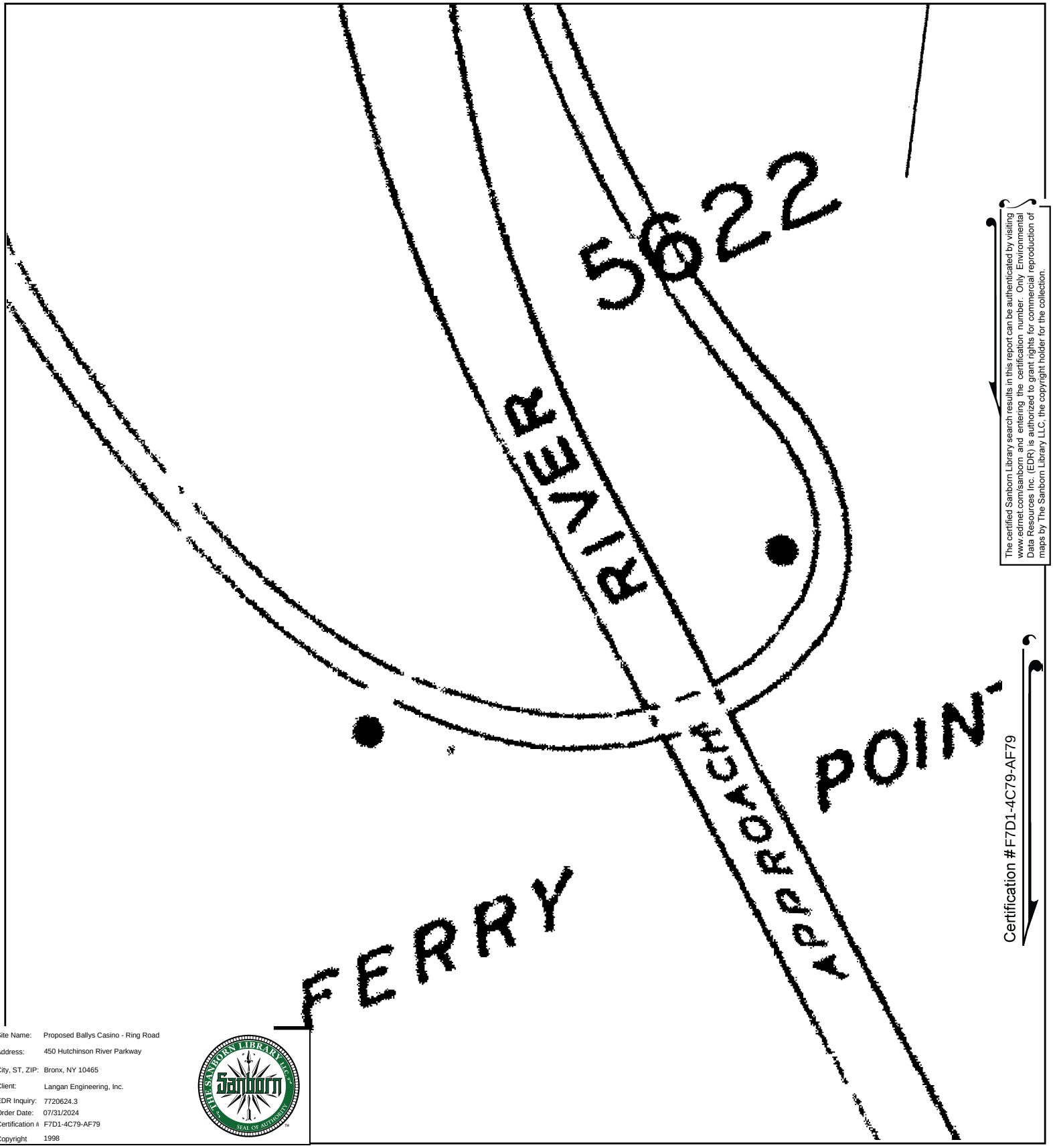

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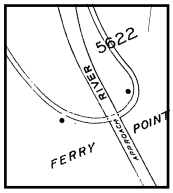

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1996

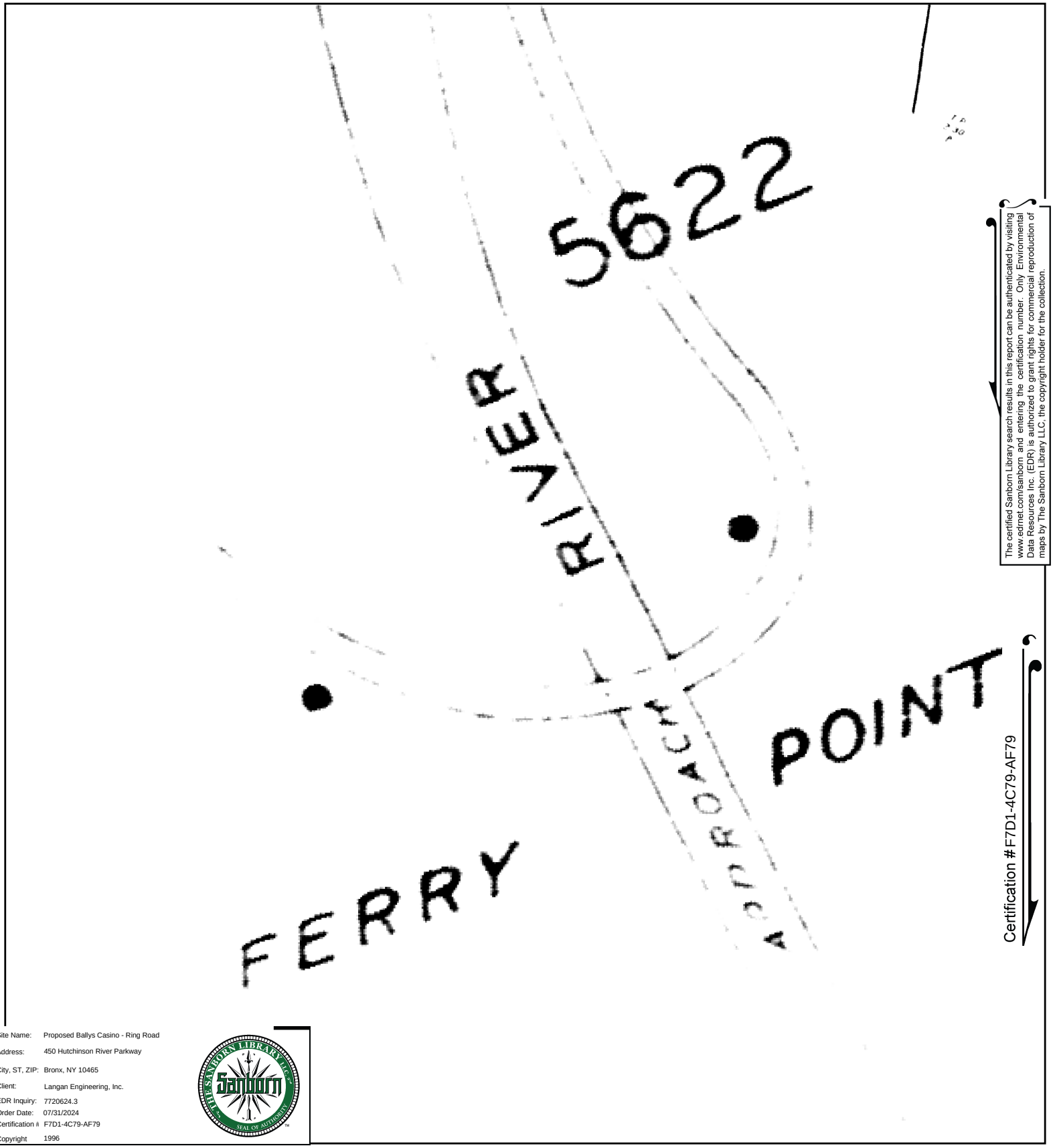

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Certification #	F7D1-4C79-AF79
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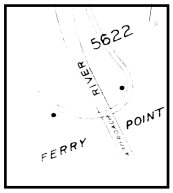

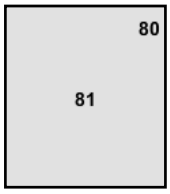

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1995

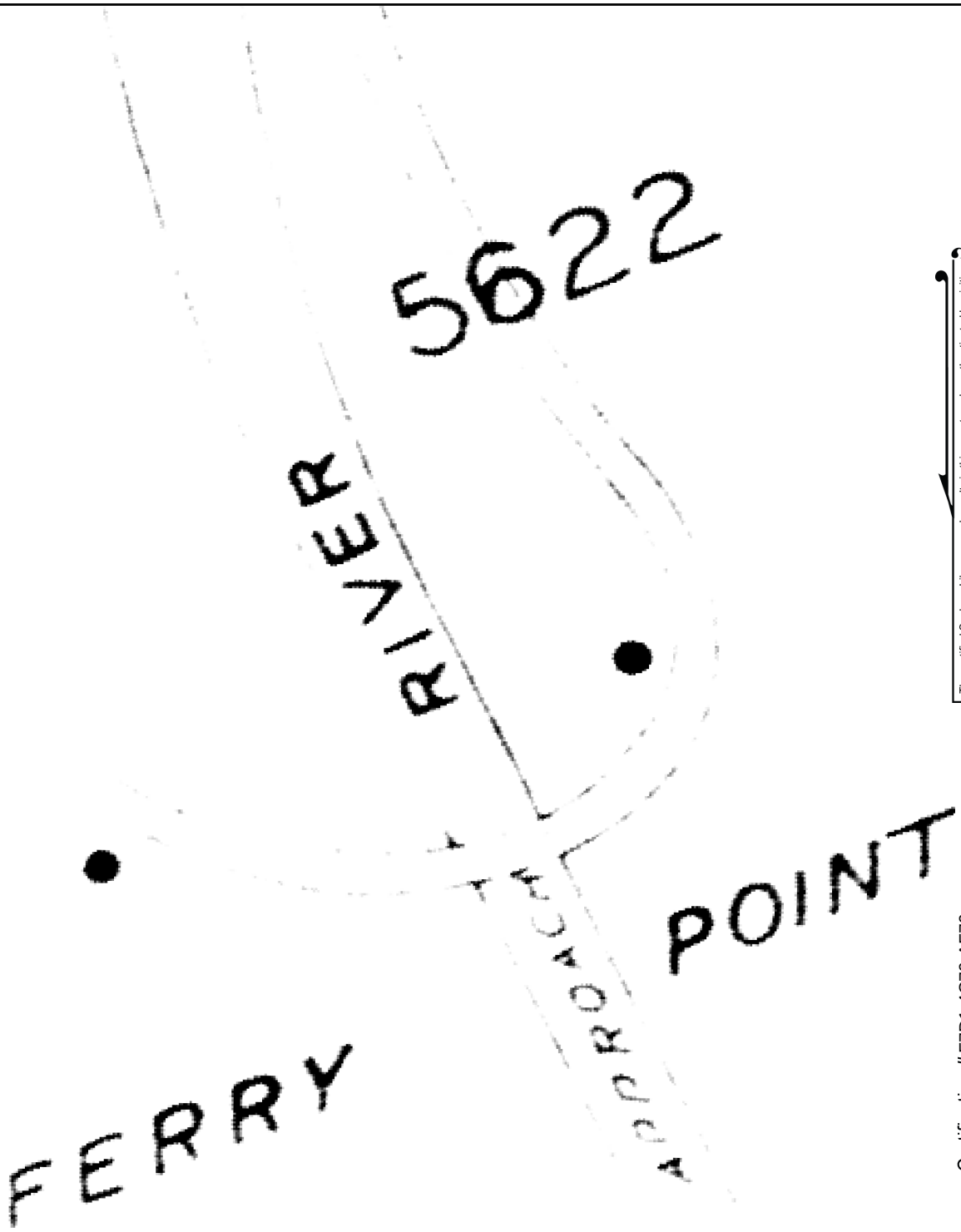

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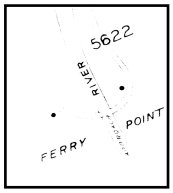

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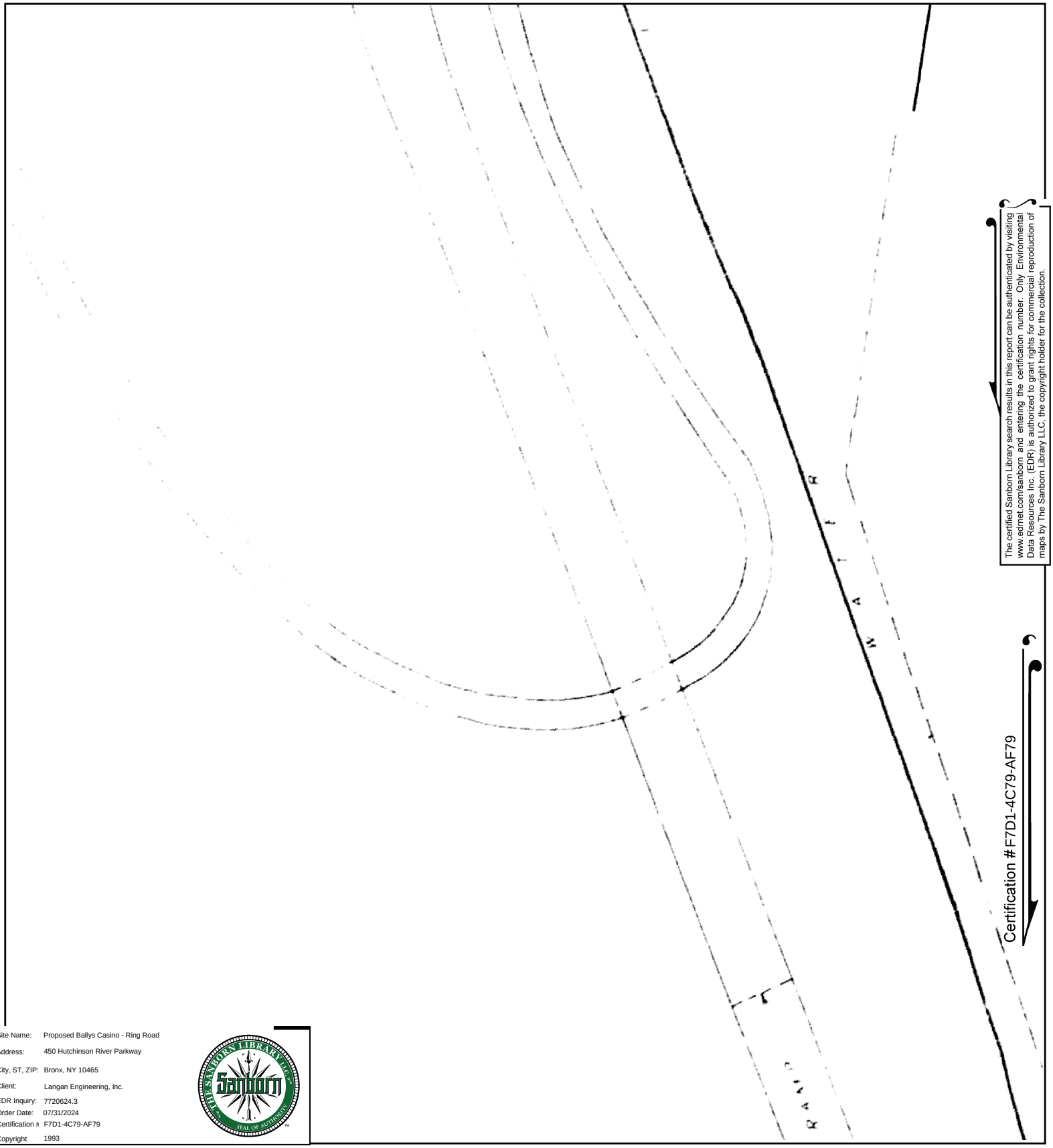

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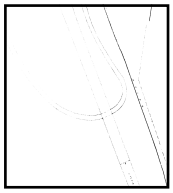

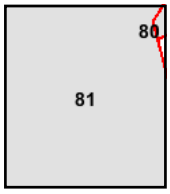

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1992

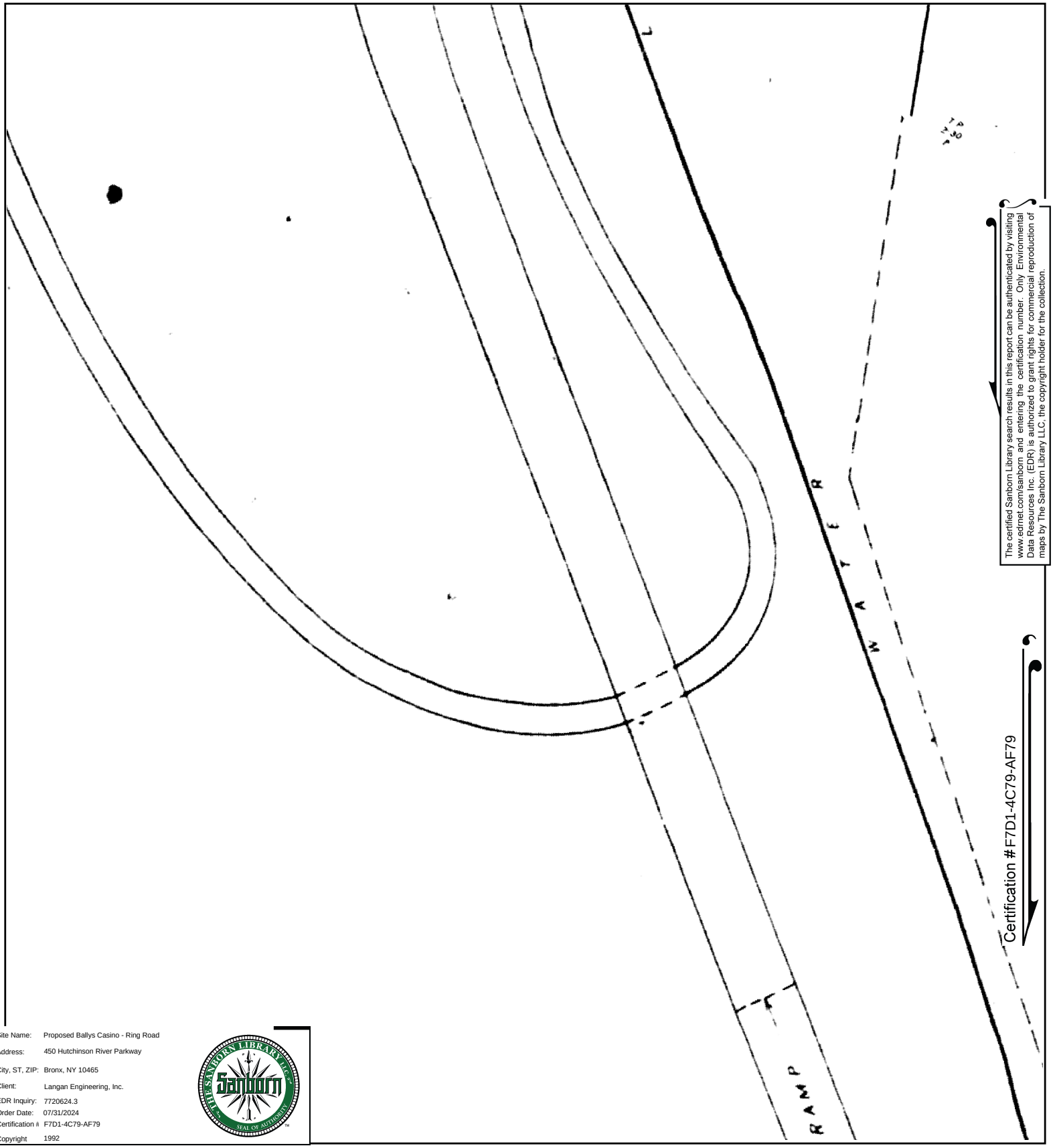

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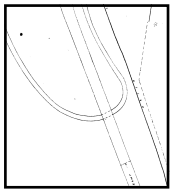

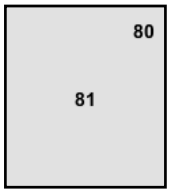

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1991

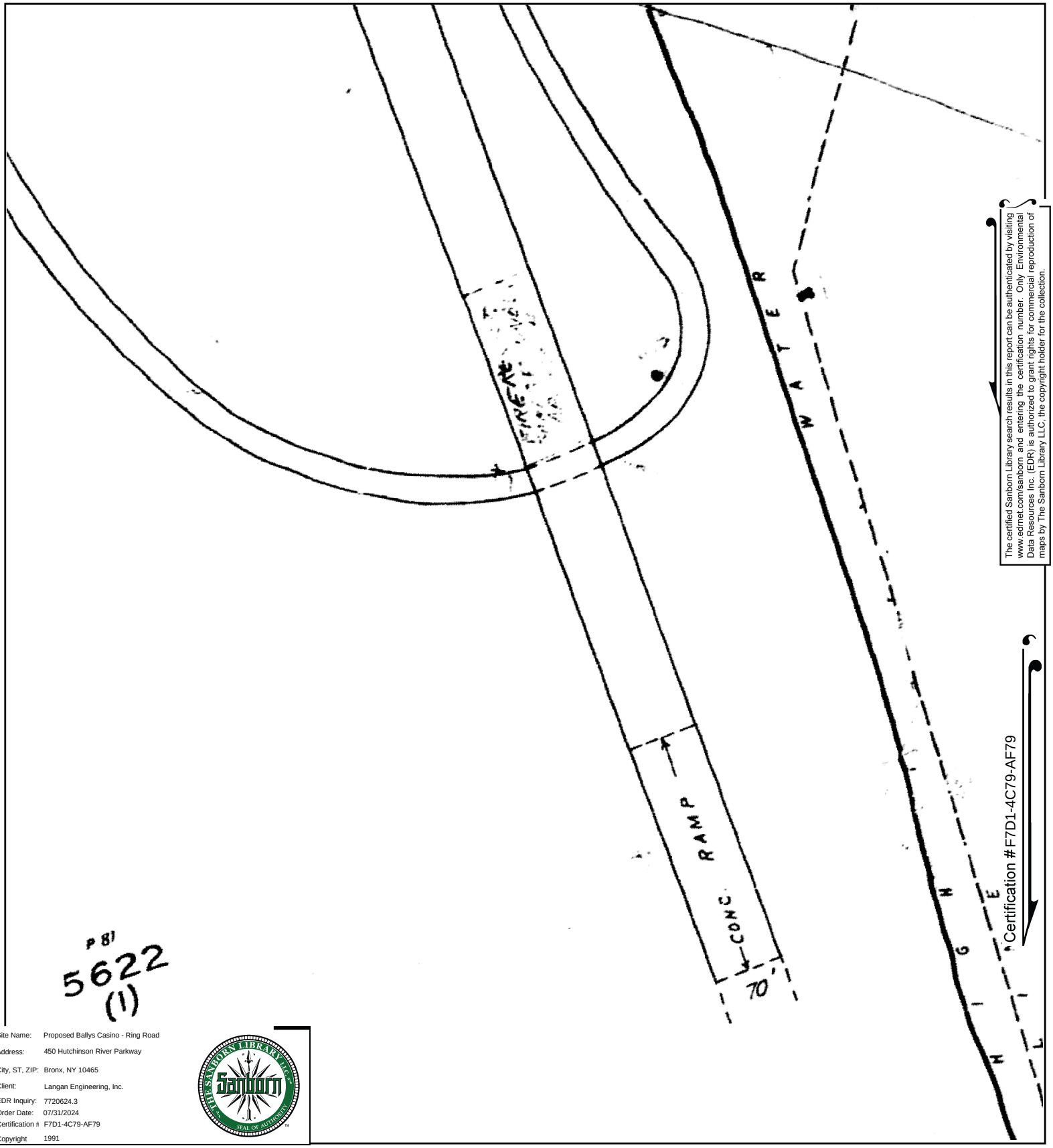

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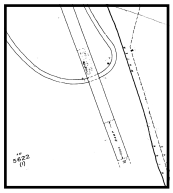

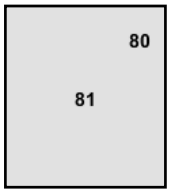

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1988

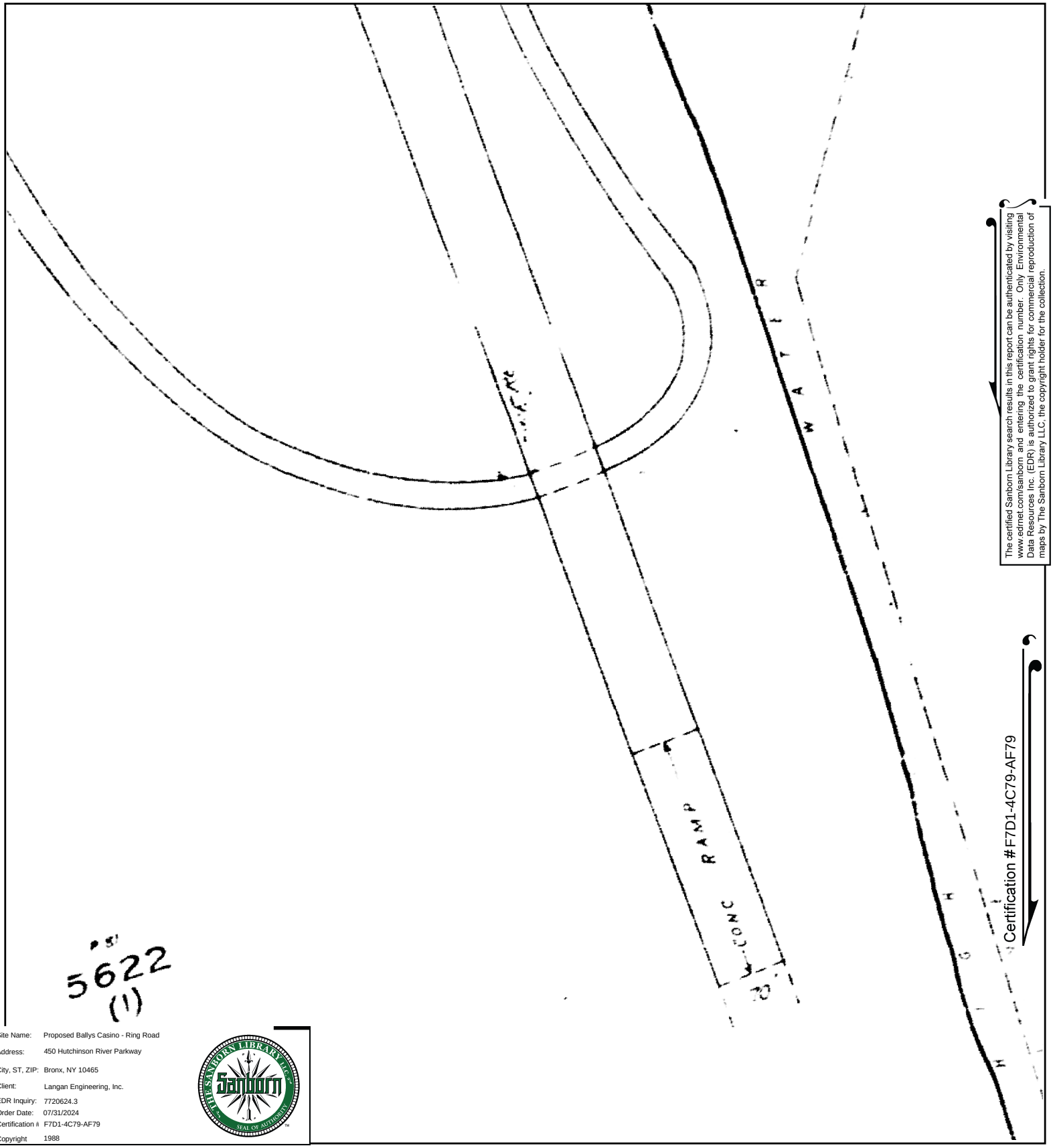

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Copyright	1988

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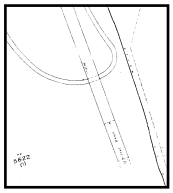

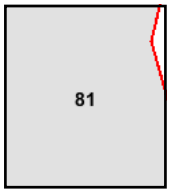

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1986

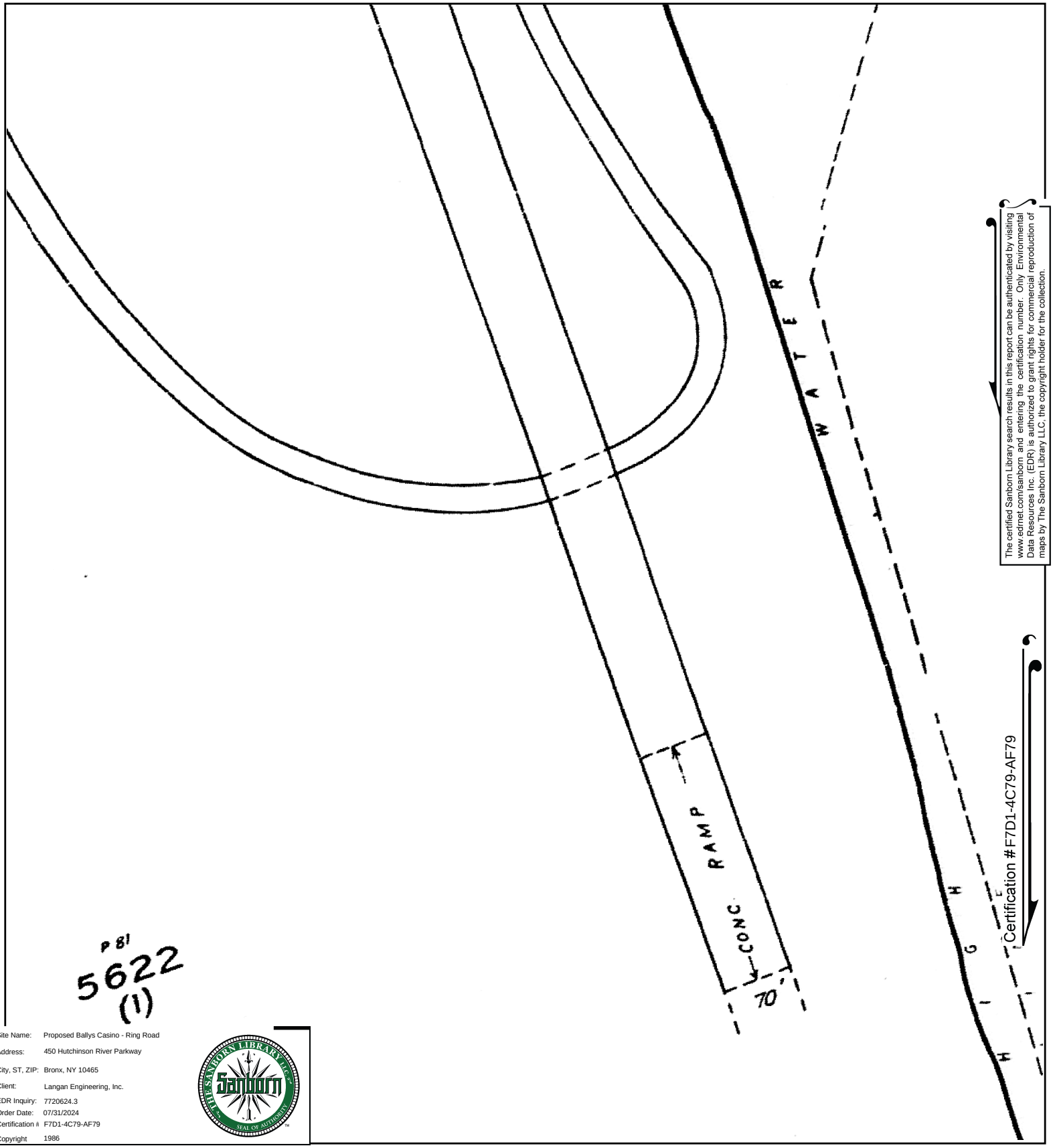

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5622
(1)

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1986

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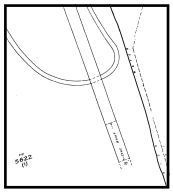

81

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N

Certified Sanborn® Map

1983

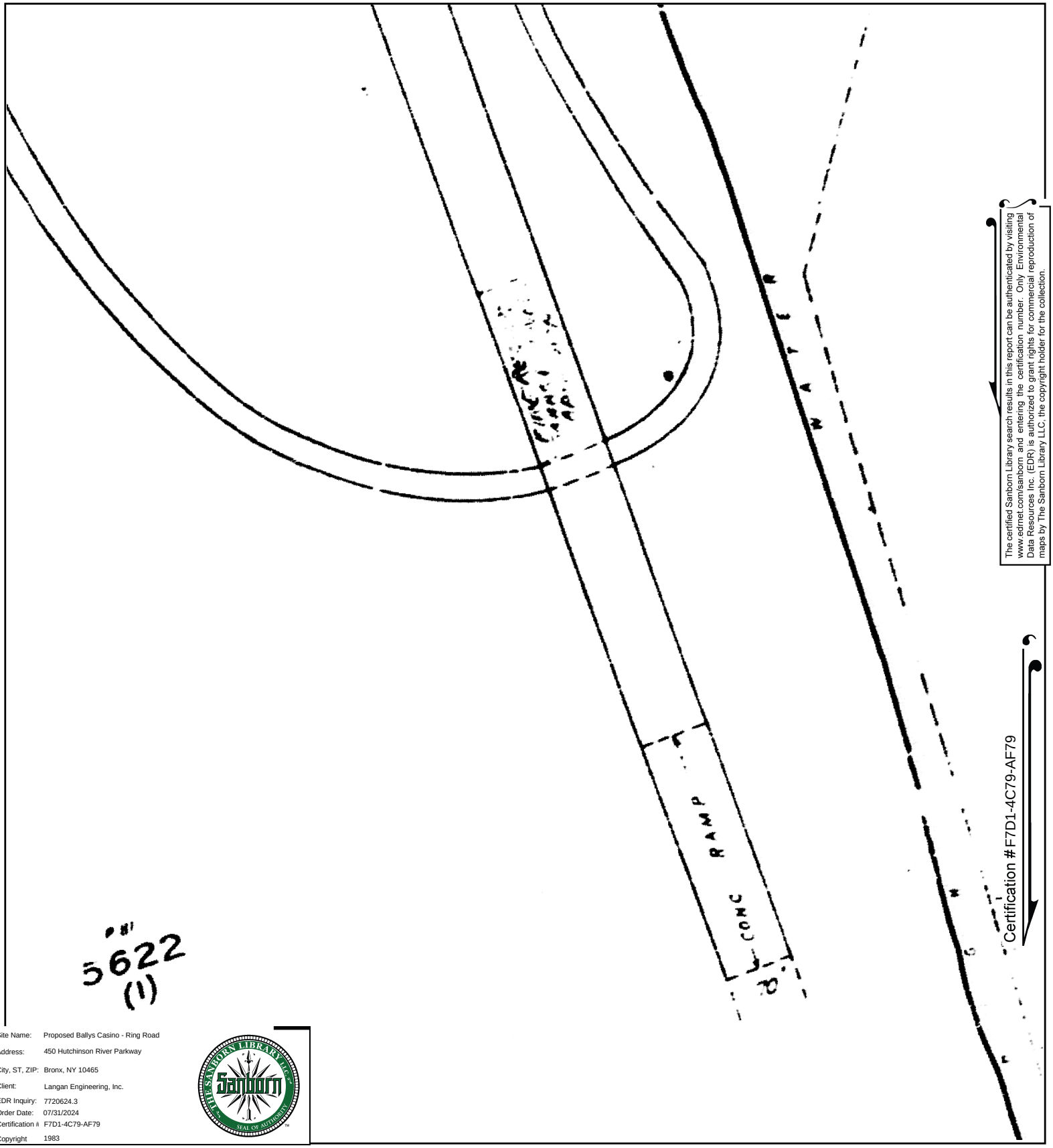

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Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1983

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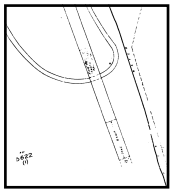

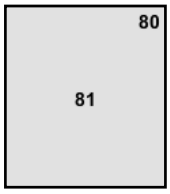

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Volume 21, Sheet 80
Volume 21, Sheet 81

N

Certified Sanborn® Map

1981

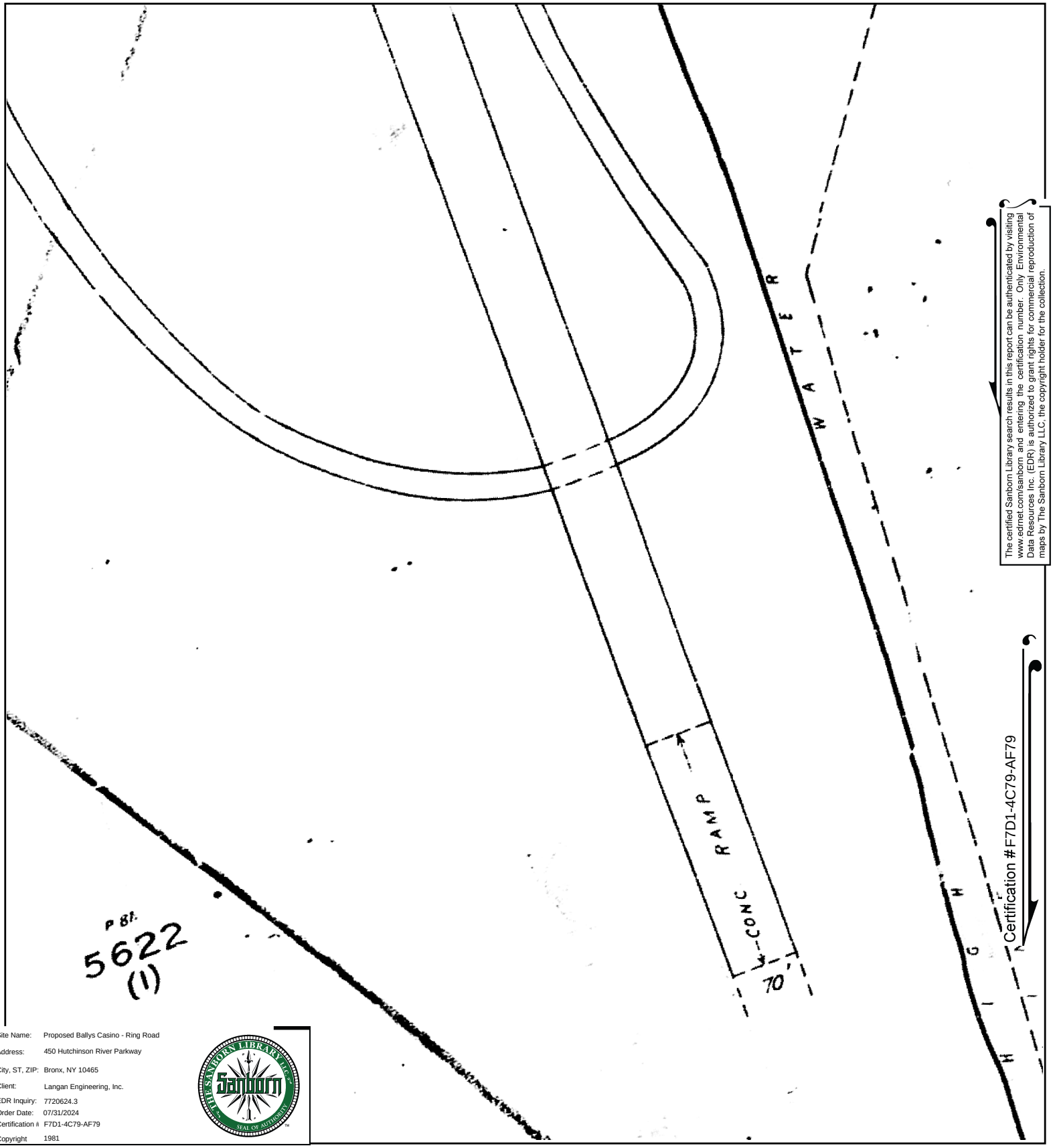

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Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1981

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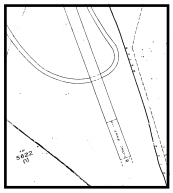

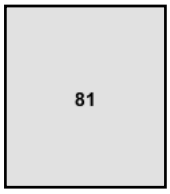

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N

Certified Sanborn® Map

1978

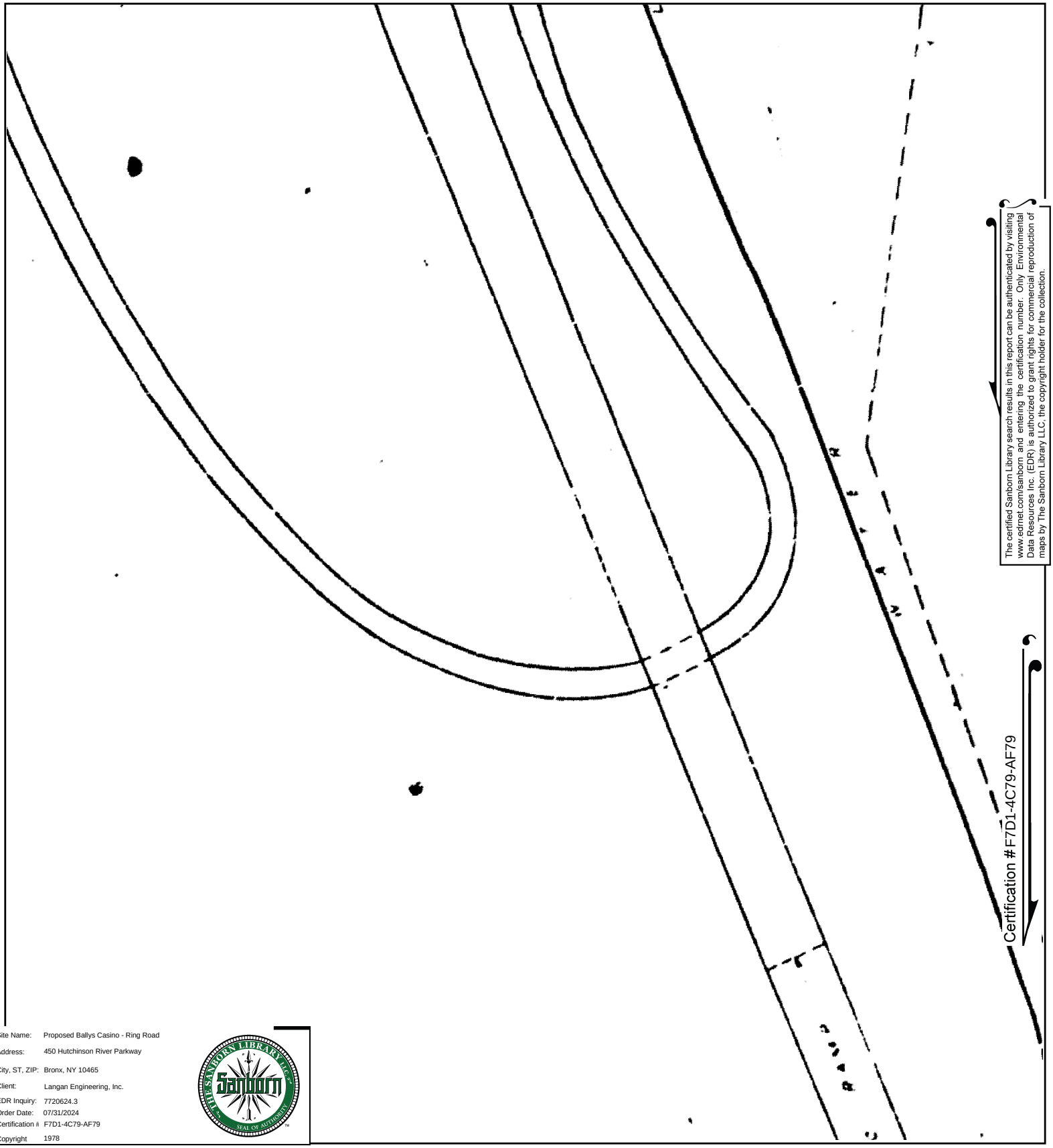

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Certification # F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1978

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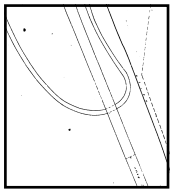

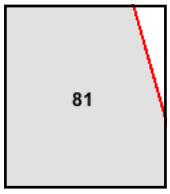

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N

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1977

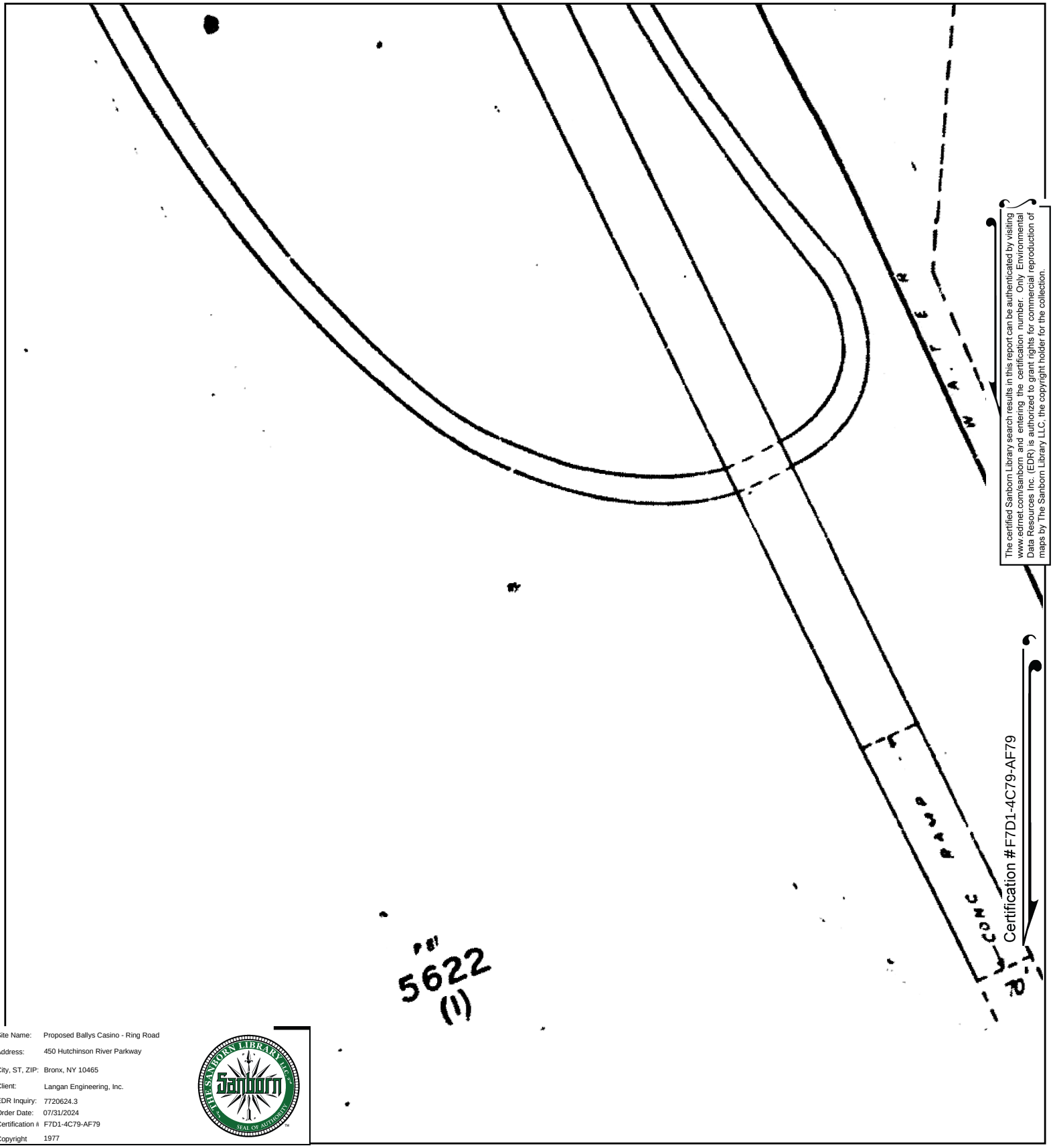

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1977

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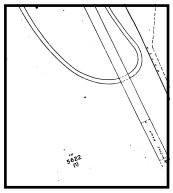

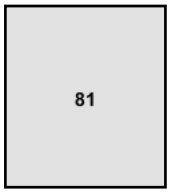

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N

Certified Sanborn® Map

1967

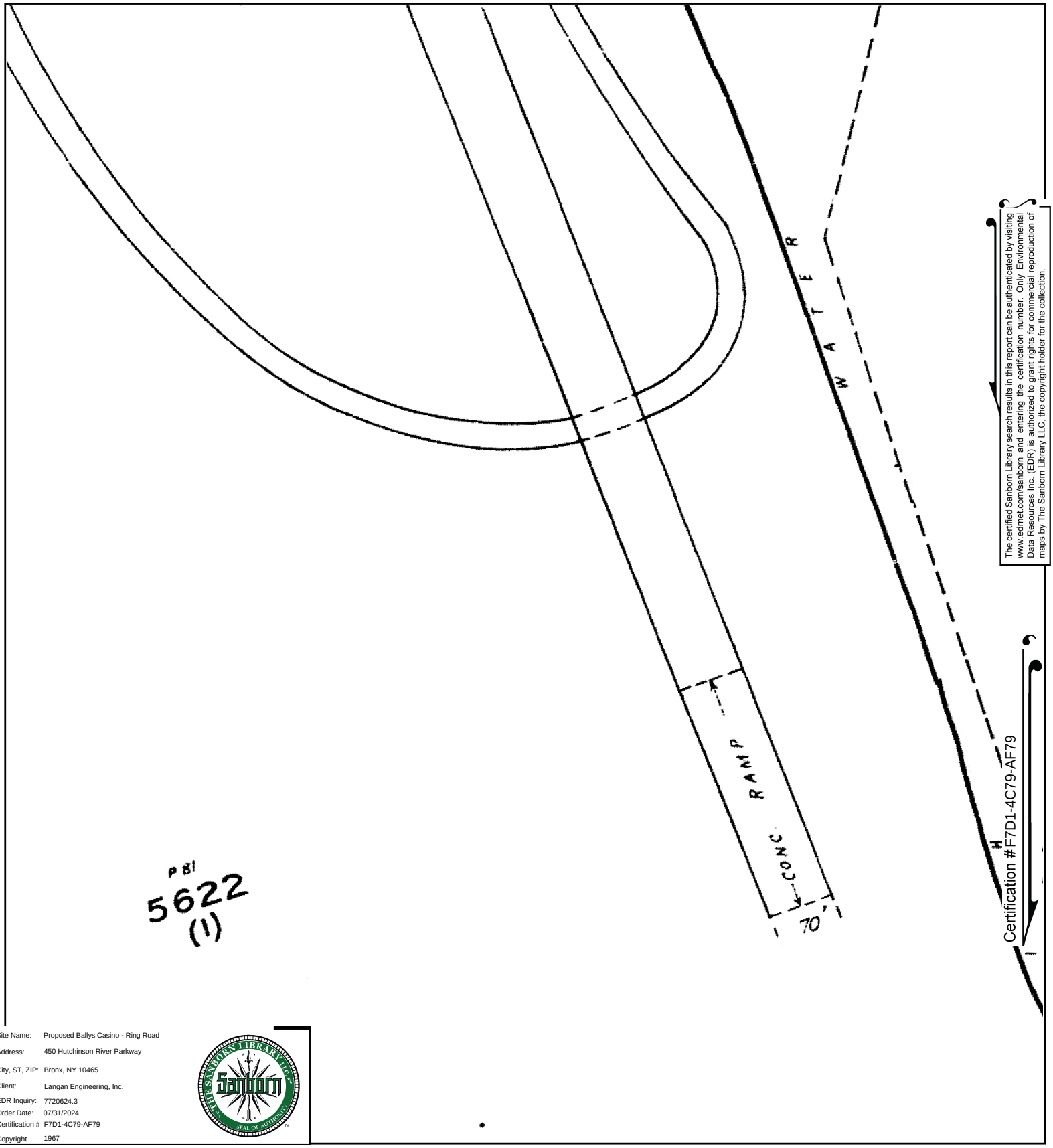

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Certification #F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1967

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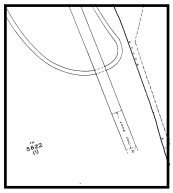

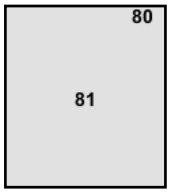

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N

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1950

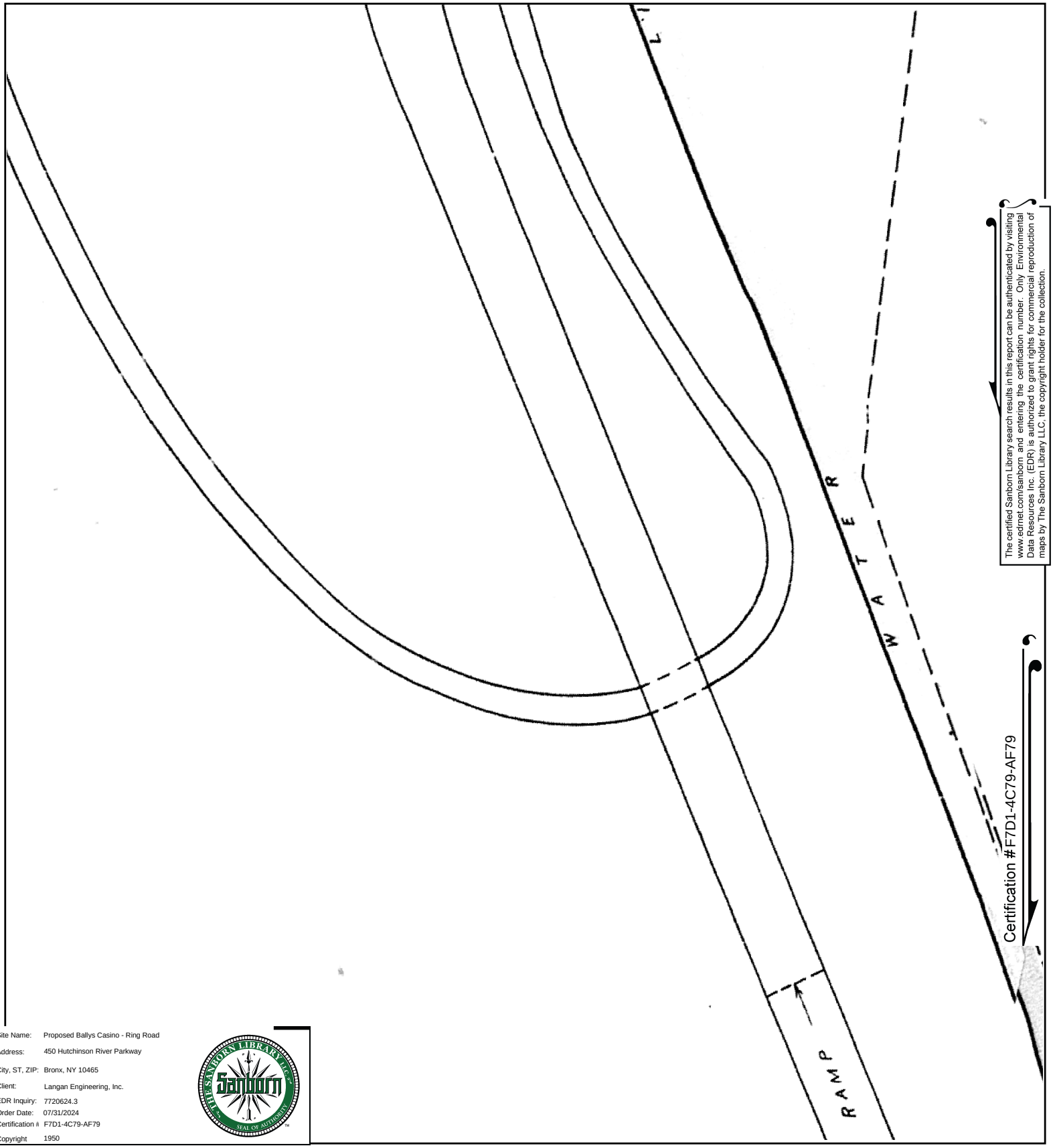

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Address: 450 Hutchinson River Parkway
City, ST, ZIP: Bronx, NY 10465
Client: Langan Engineering, Inc.
EDR Inquiry: 7720624.3
Order Date: 07/31/2024
Certification # F7D1-4C79-AF79
Copyright 1950

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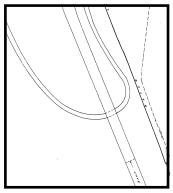

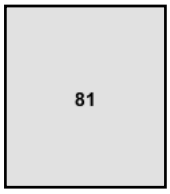

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N

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1930

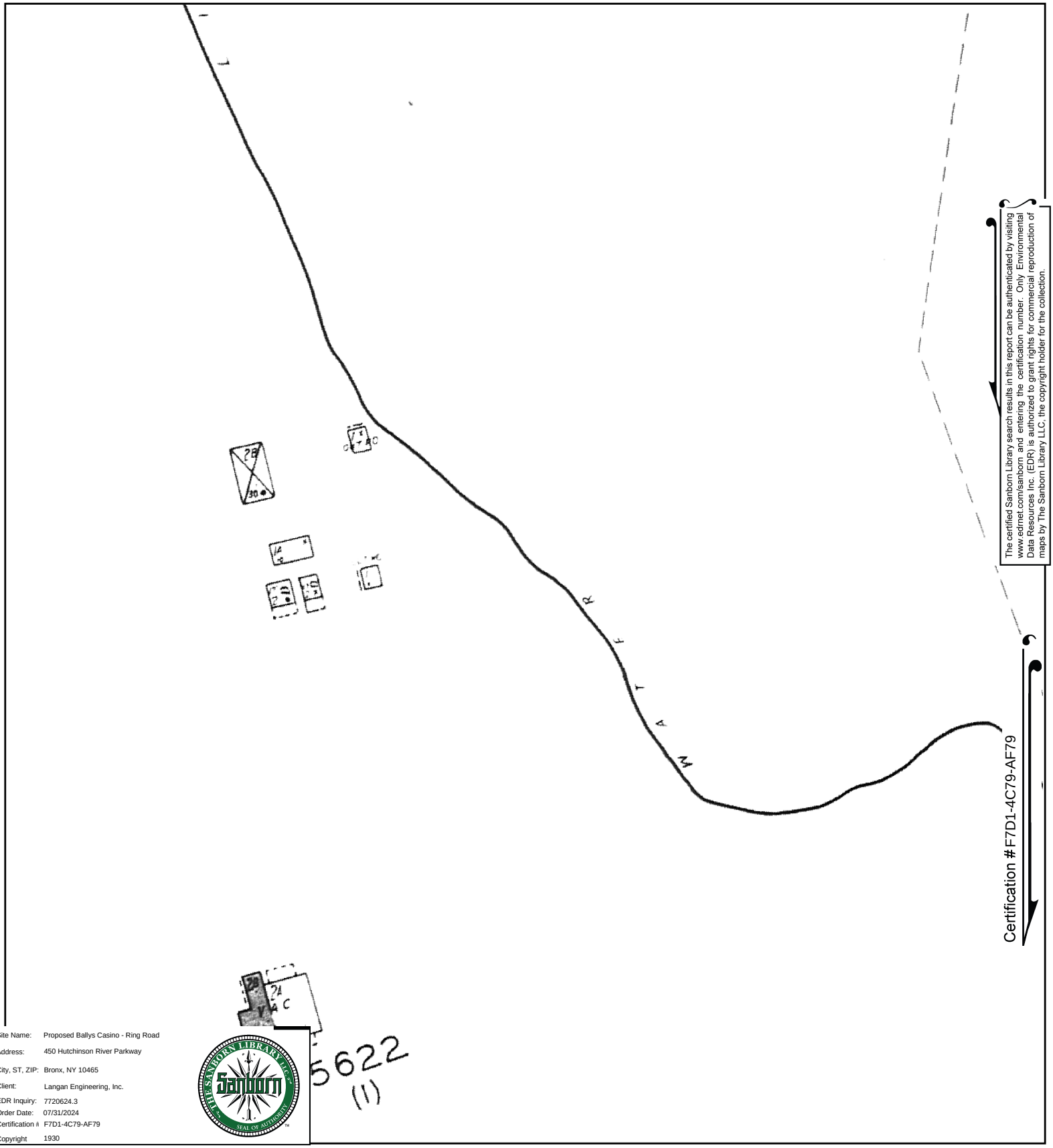

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Certification #F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1930

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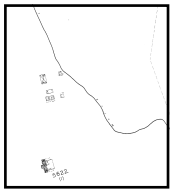

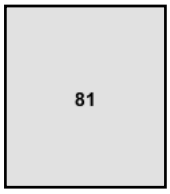

Volume 21, Sheet 79
Volume 21, Sheet 81

N

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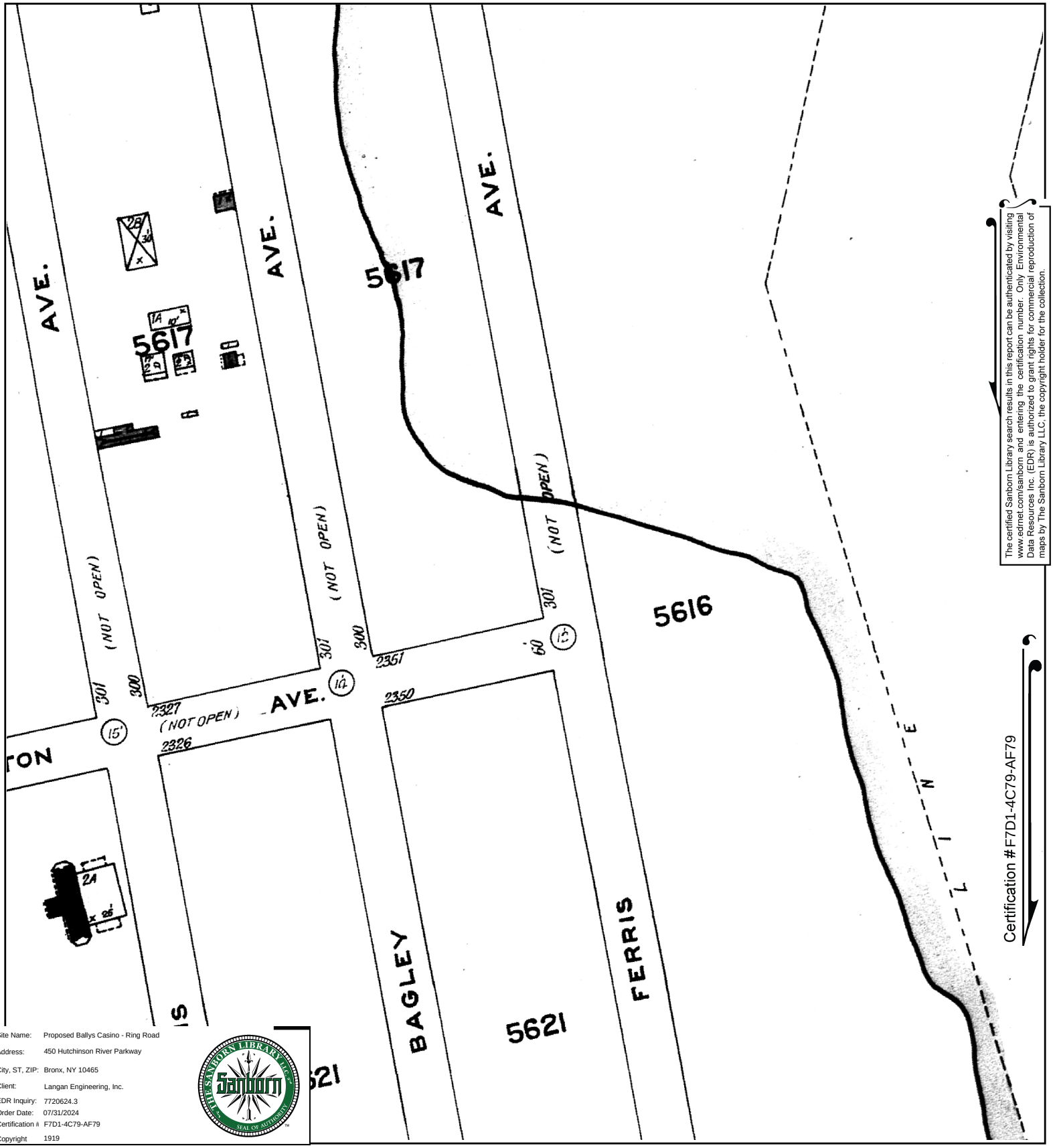

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Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1919

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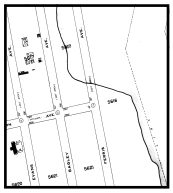

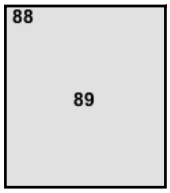

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N

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1908

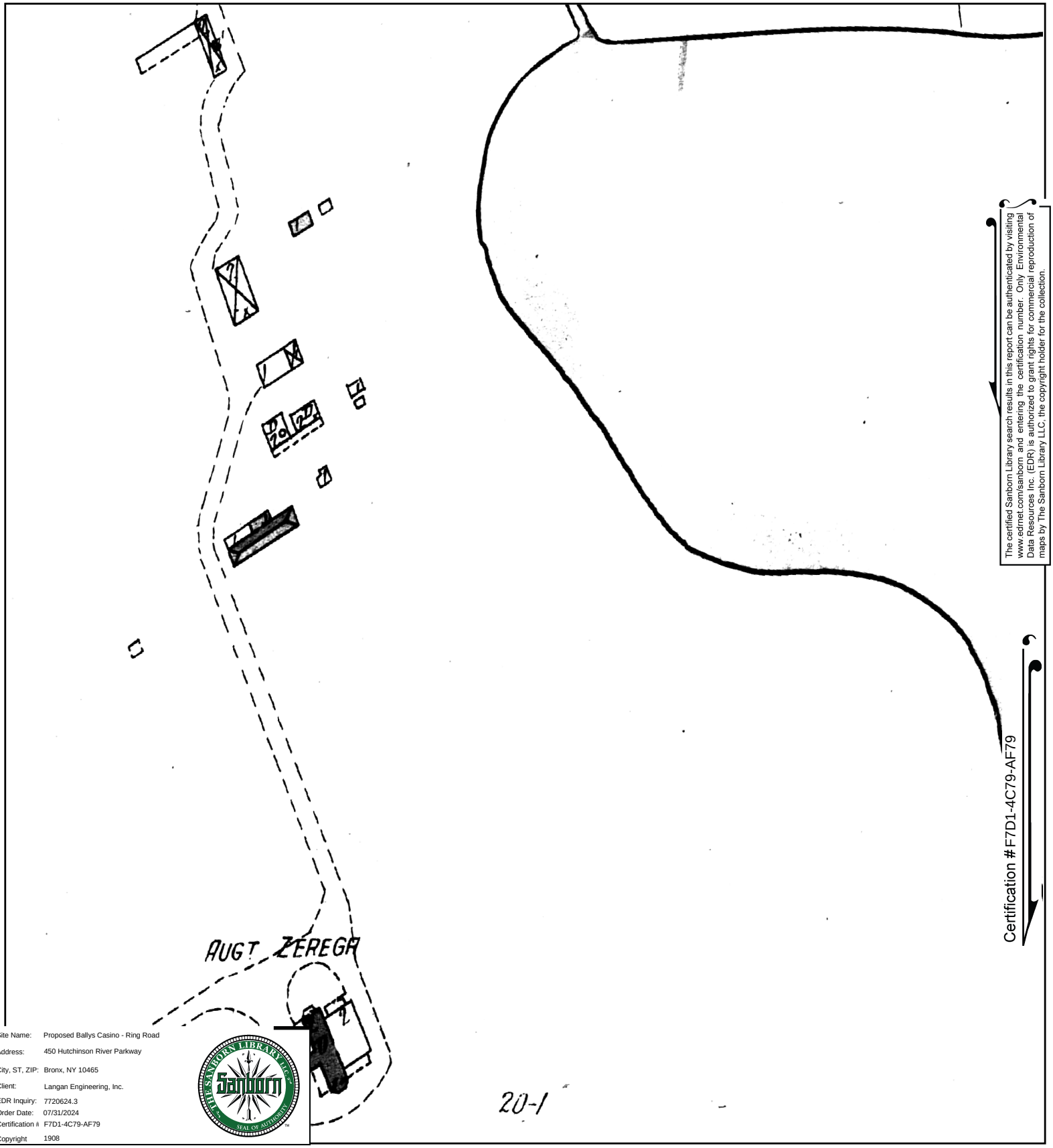

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Site Name:	Proposed Ballys Casino - Ring Road
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Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1908

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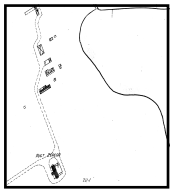

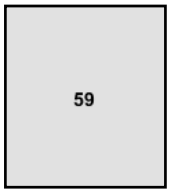

Volume A, Sheet 59

N

Certified Sanborn® Map

1898

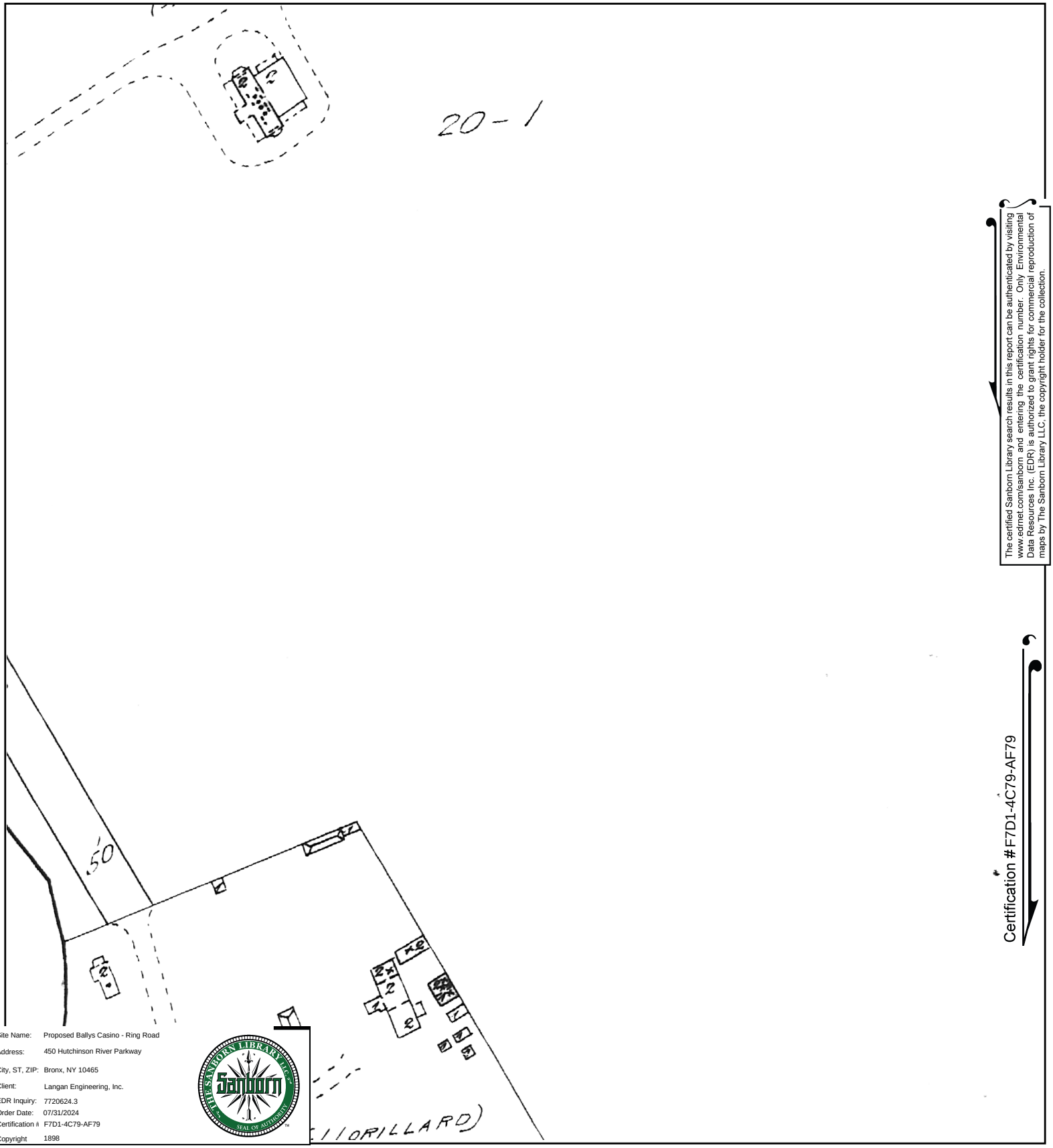

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City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1898

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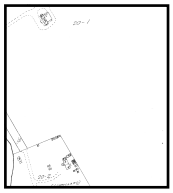

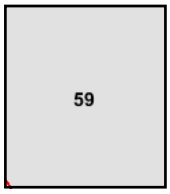

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N

Proposed Ballys Casino - Ring Road

450 Hutchinson River Parkway

Bronx, NY 10465

Inquiry Number: 7720624.4

July 29, 2024

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

07/29/24

Site Name:	Client Name:
Proposed Ballys Casino - Ring	Langan Engineering, Inc.
450 Hutchinson River Parkway	360 W. 31st Street
Bronx, NY 10465	New York, NY 10001
EDR Inquiry # 7720624.4	Contact: Kaitlyn Gioia

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Langan Engineering, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	170773001	**Latitude:**	40.813693 40° 48' 49" North
Project:	Prpsd Bally s Casino - Ring Rd	**Longitude:**	-73.835803 -73° 50' 9" West
		UTM Zone:	Zone 18 North
		UTM X Meters:	598186.93
		UTM Y Meters:	4518727.59
		Elevation:	16.00' above sea level

Maps Provided:

2019	1900
2016	1898
2013	1897
1995	
1979	
1966	
1955	
1947	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2019 Source Sheets

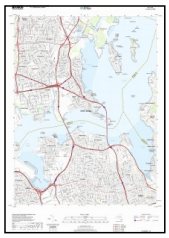

Flushing
2019
7.5-minute, 24000

2016 Source Sheets

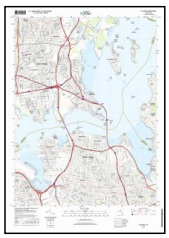

Flushing
2016
7.5-minute, 24000

2013 Source Sheets

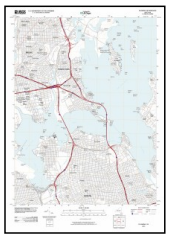

Flushing
2013
7.5-minute, 24000

1995 Source Sheets

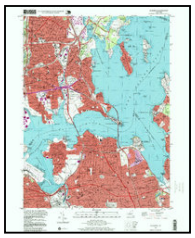

Flushing
1995
7.5-minute, 24000
Aerial Photo Revised 1977

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1979 Source Sheets

Flushing
1979
7.5-minute, 24000
Aerial Photo Revised 1977

1966 Source Sheets

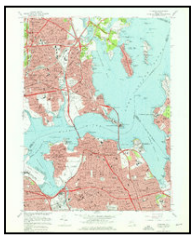

Flushing
1966
7.5-minute, 24000
Aerial Photo Revised 1954

1955 Source Sheets

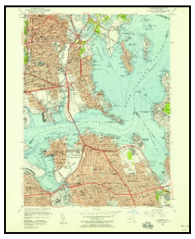

Flushing
1955
7.5-minute, 24000
Aerial Photo Revised 1954

1947 Source Sheets

Flushing
1947
7.5-minute, 24000
Aerial Photo Revised 1942

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1900 Source Sheets

Harlem
1900
15-minute, 62500

1898 Source Sheets

Harlem
1898
15-minute, 62500

1897 Source Sheets

Harlem
1897
15-minute, 62500

Historical Topo Map

2019

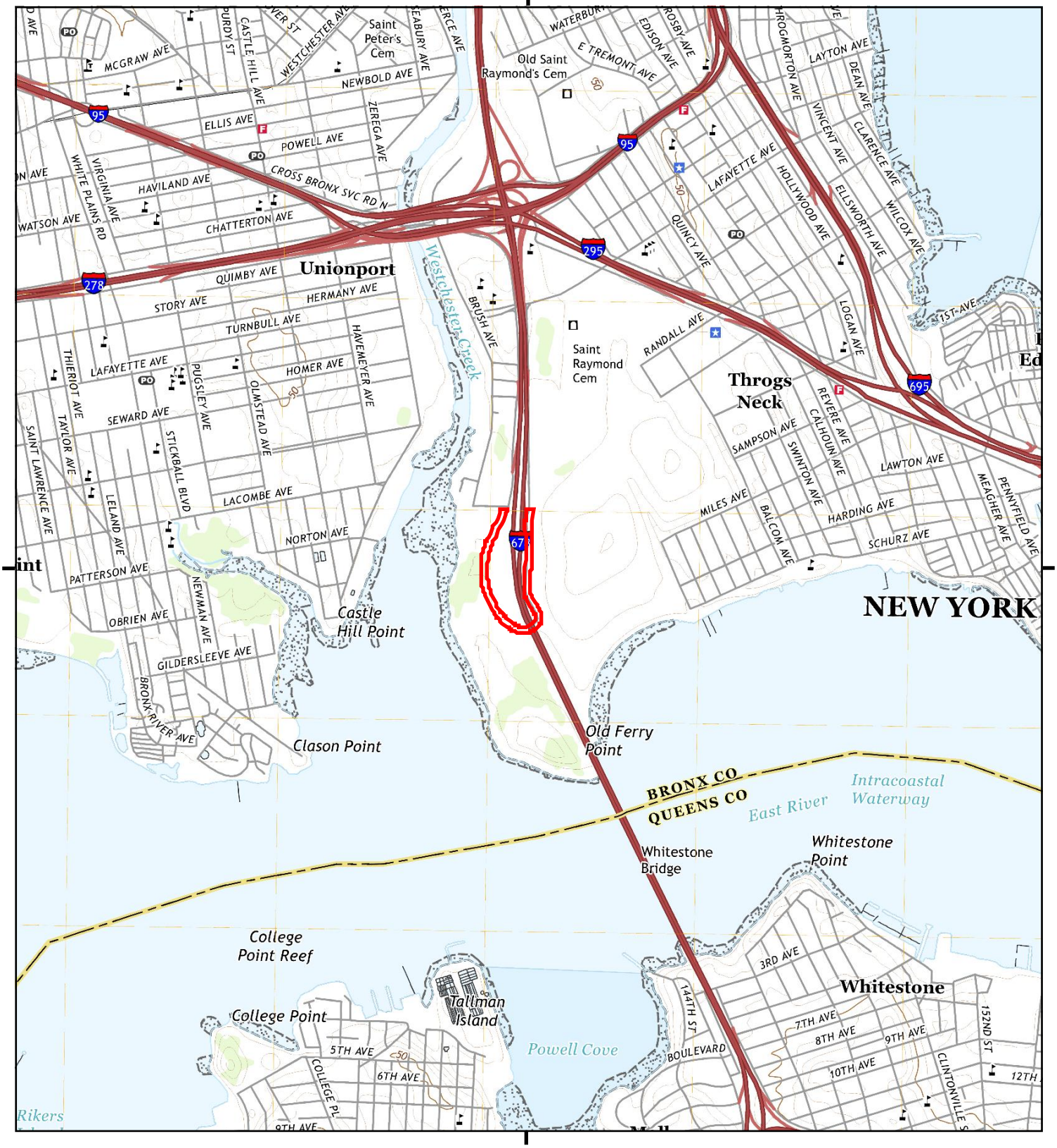

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 2019, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

2016

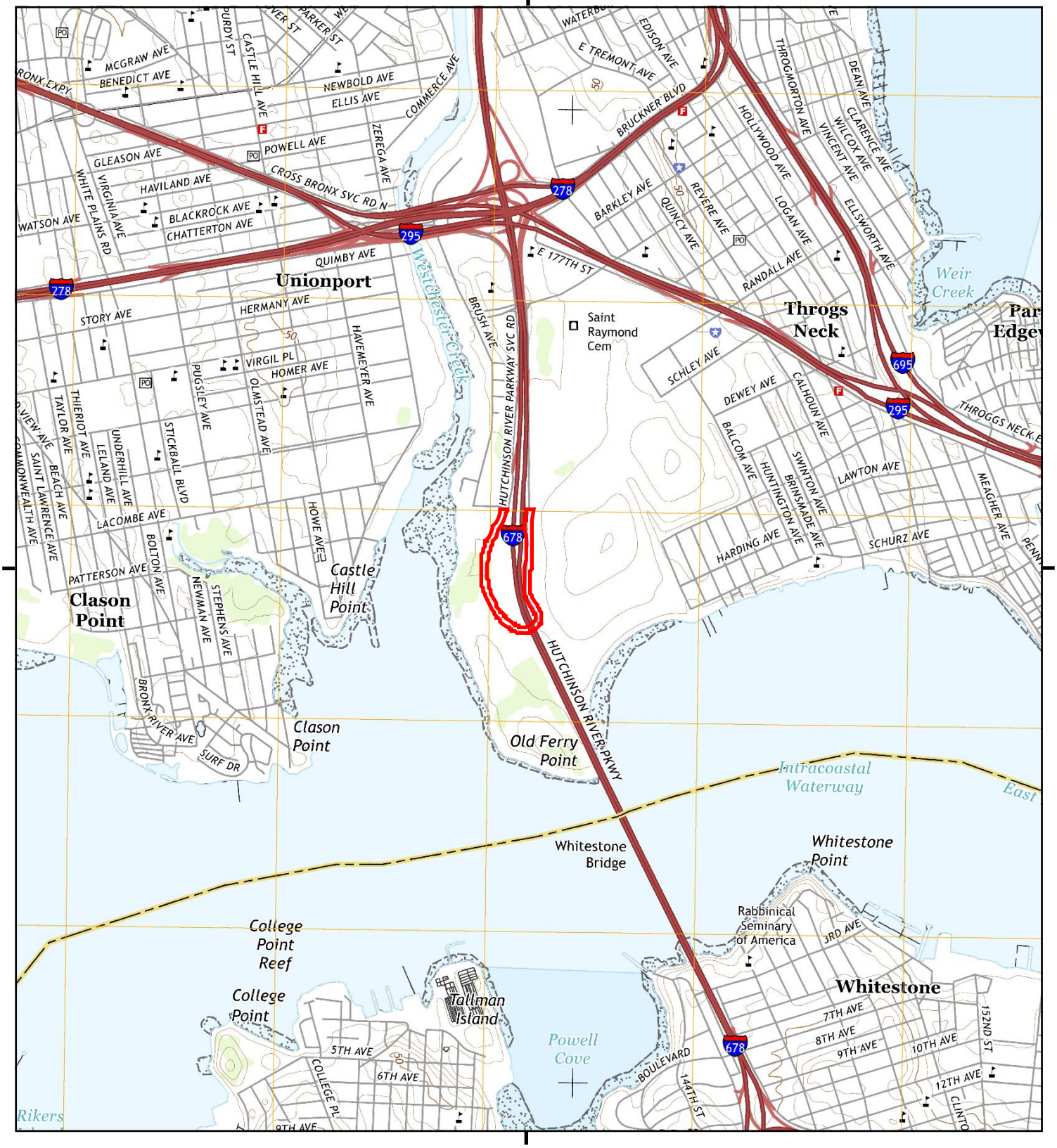

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 2016, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

2013

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 2013, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1995

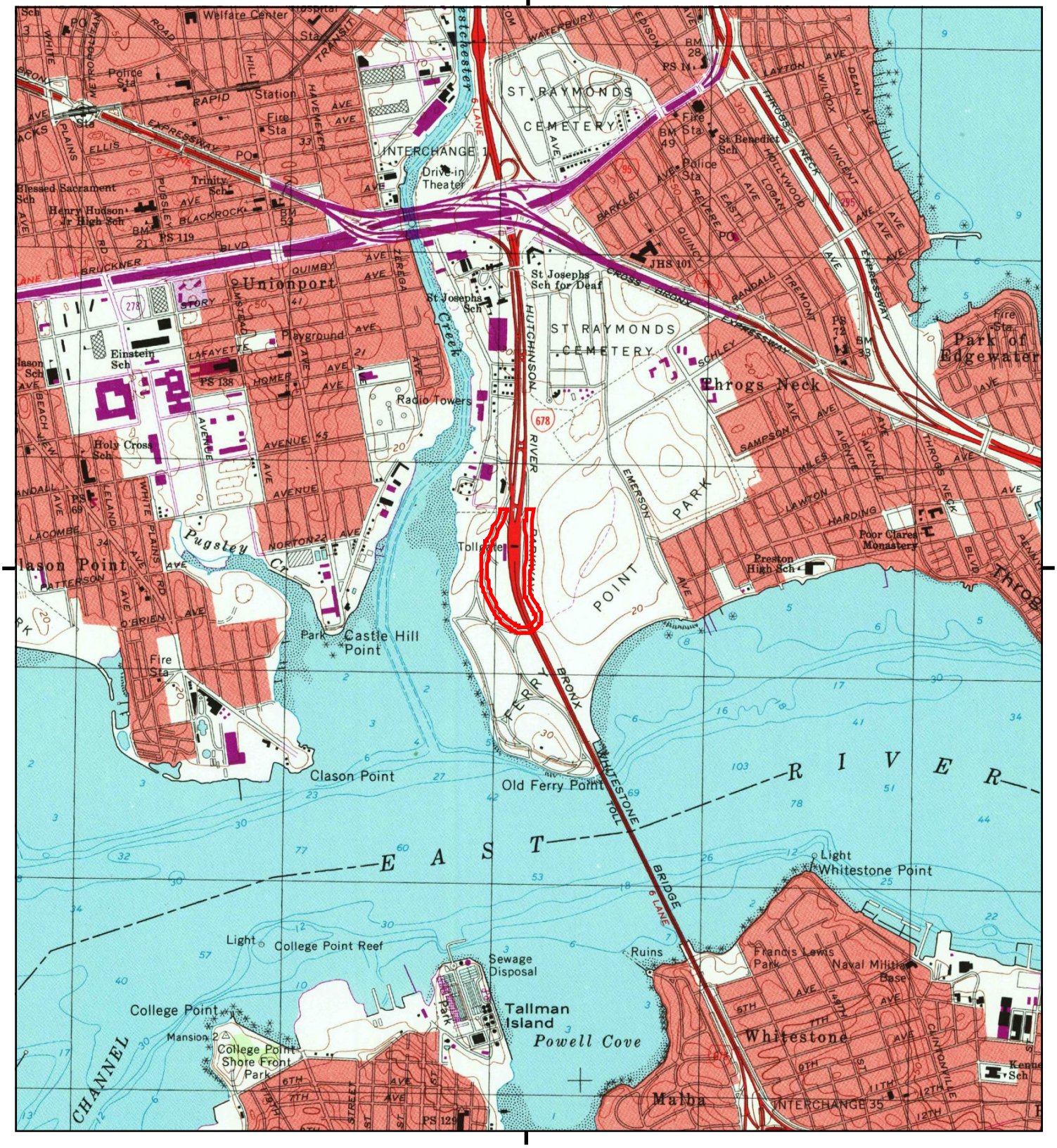

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 1995, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1979

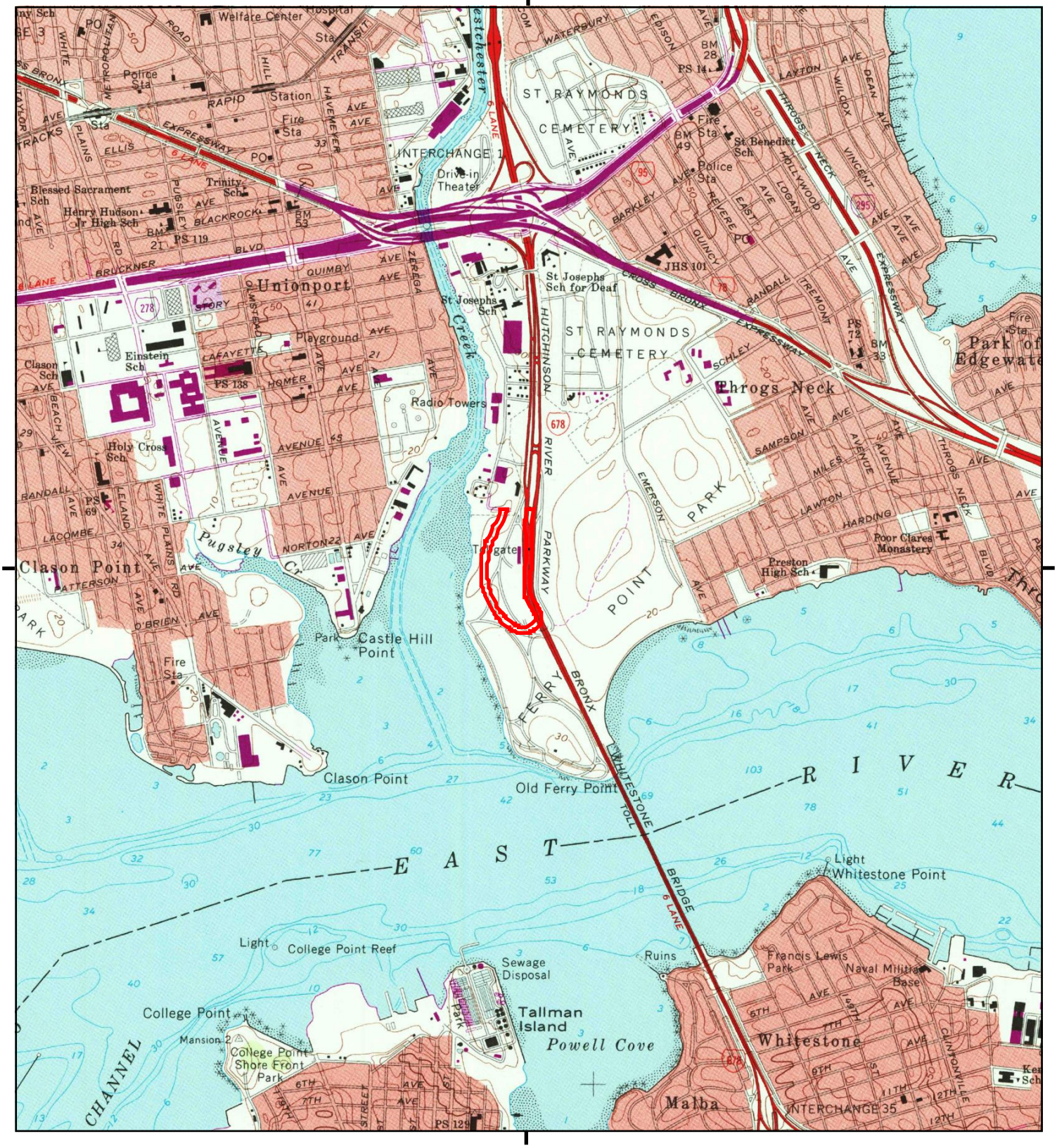

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 1979, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1966

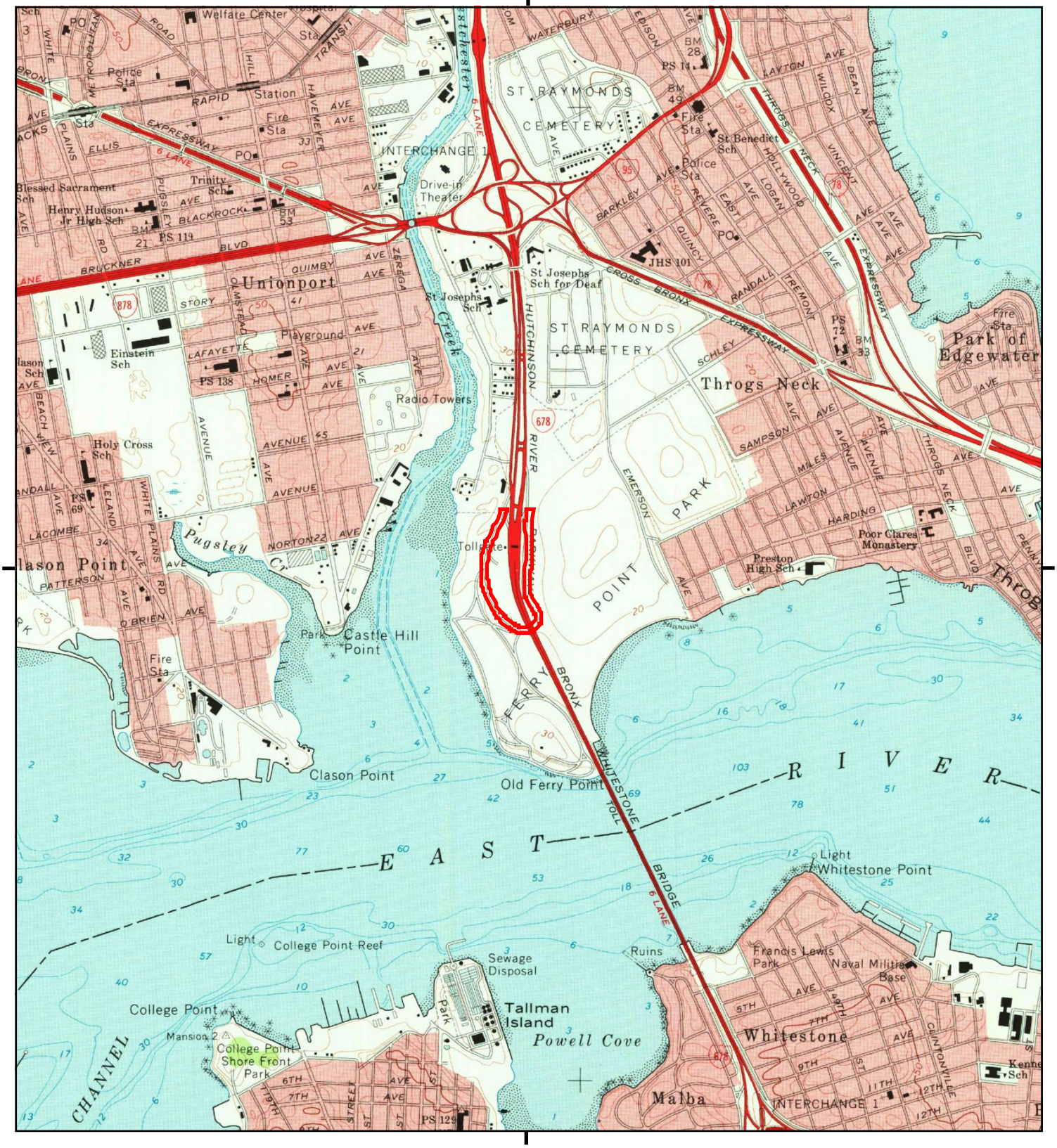

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 1966, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1955

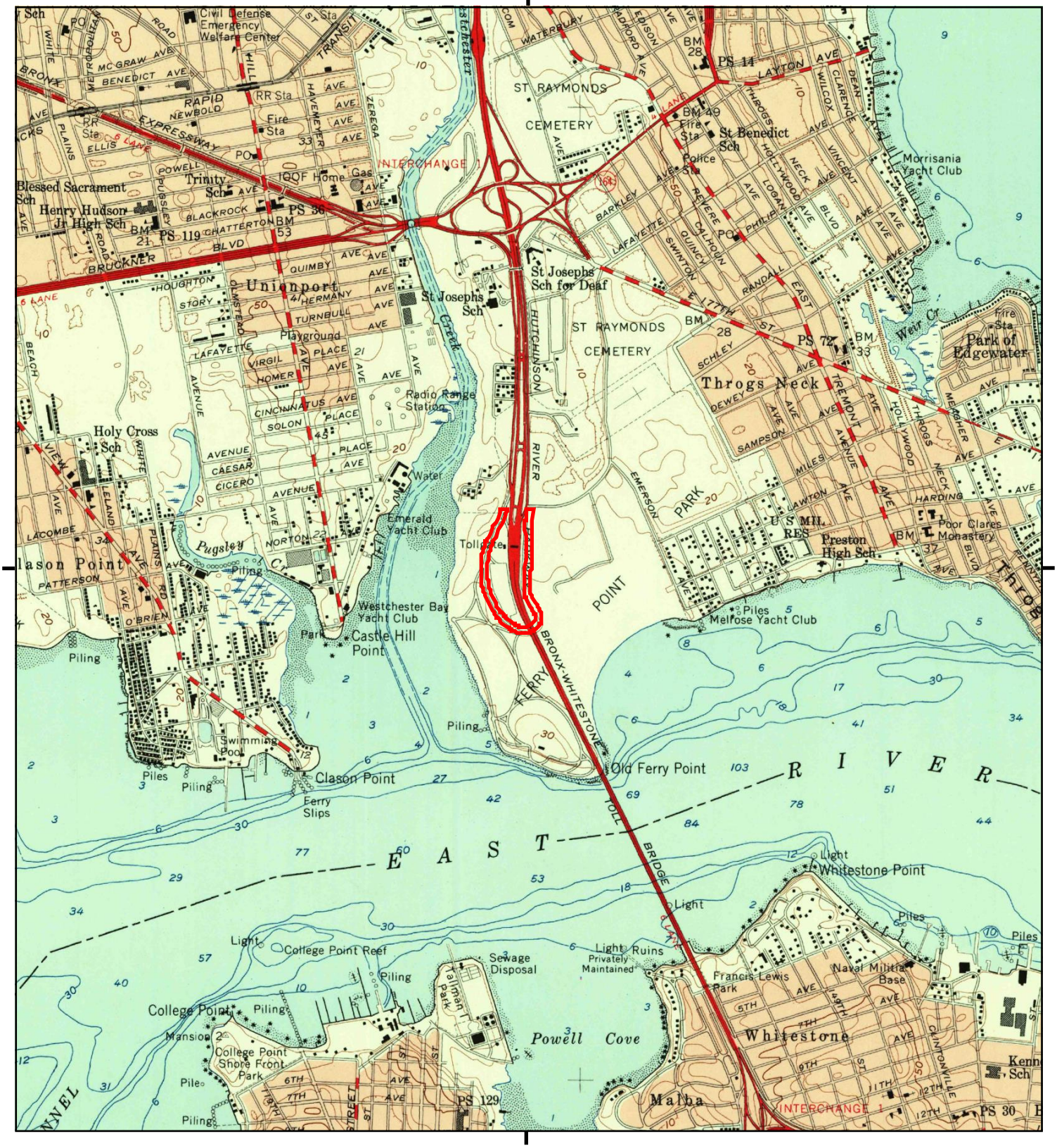

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 1955, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1947

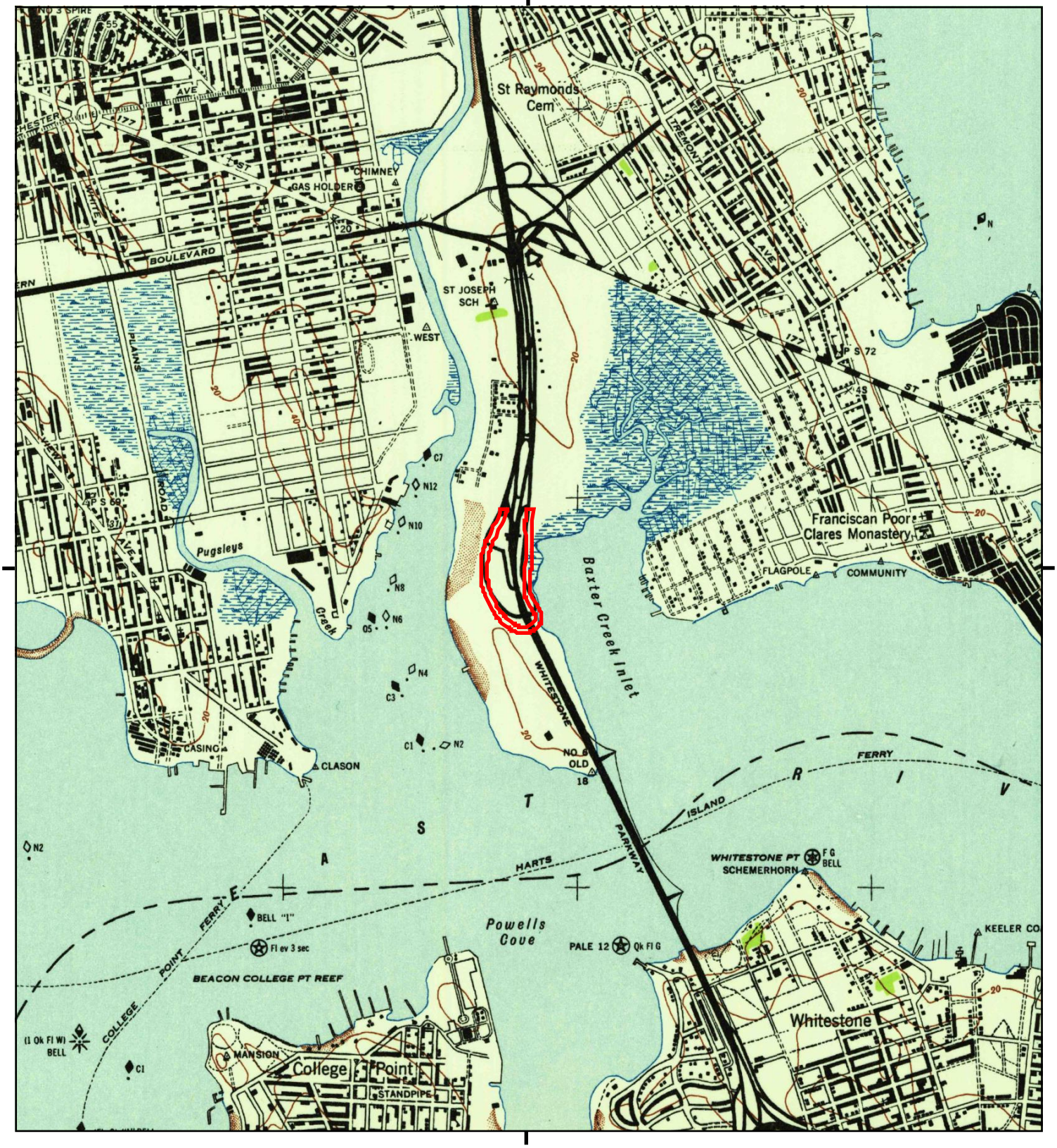

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 1947, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1900

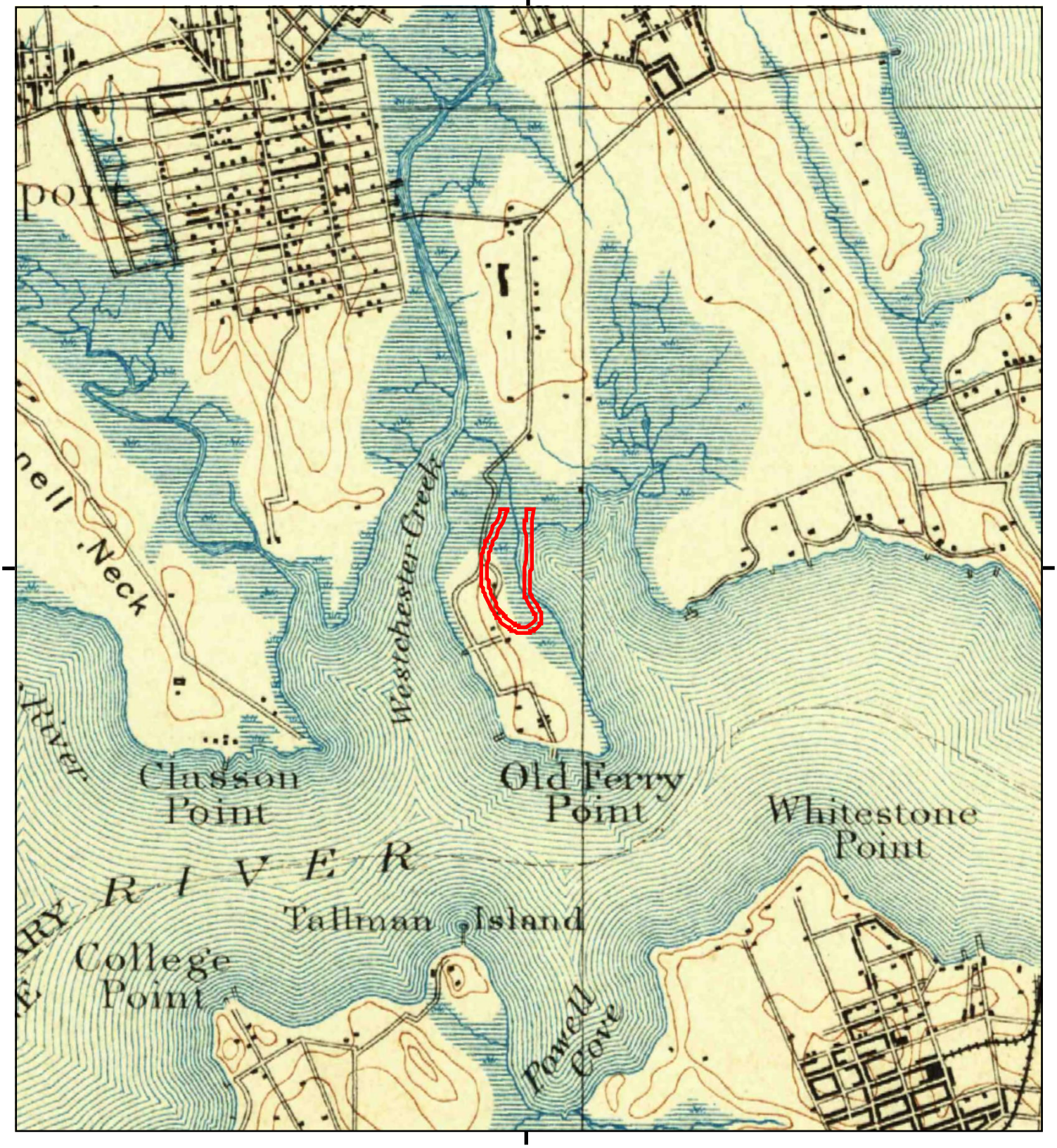

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Harlem, 1900, 15-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1898

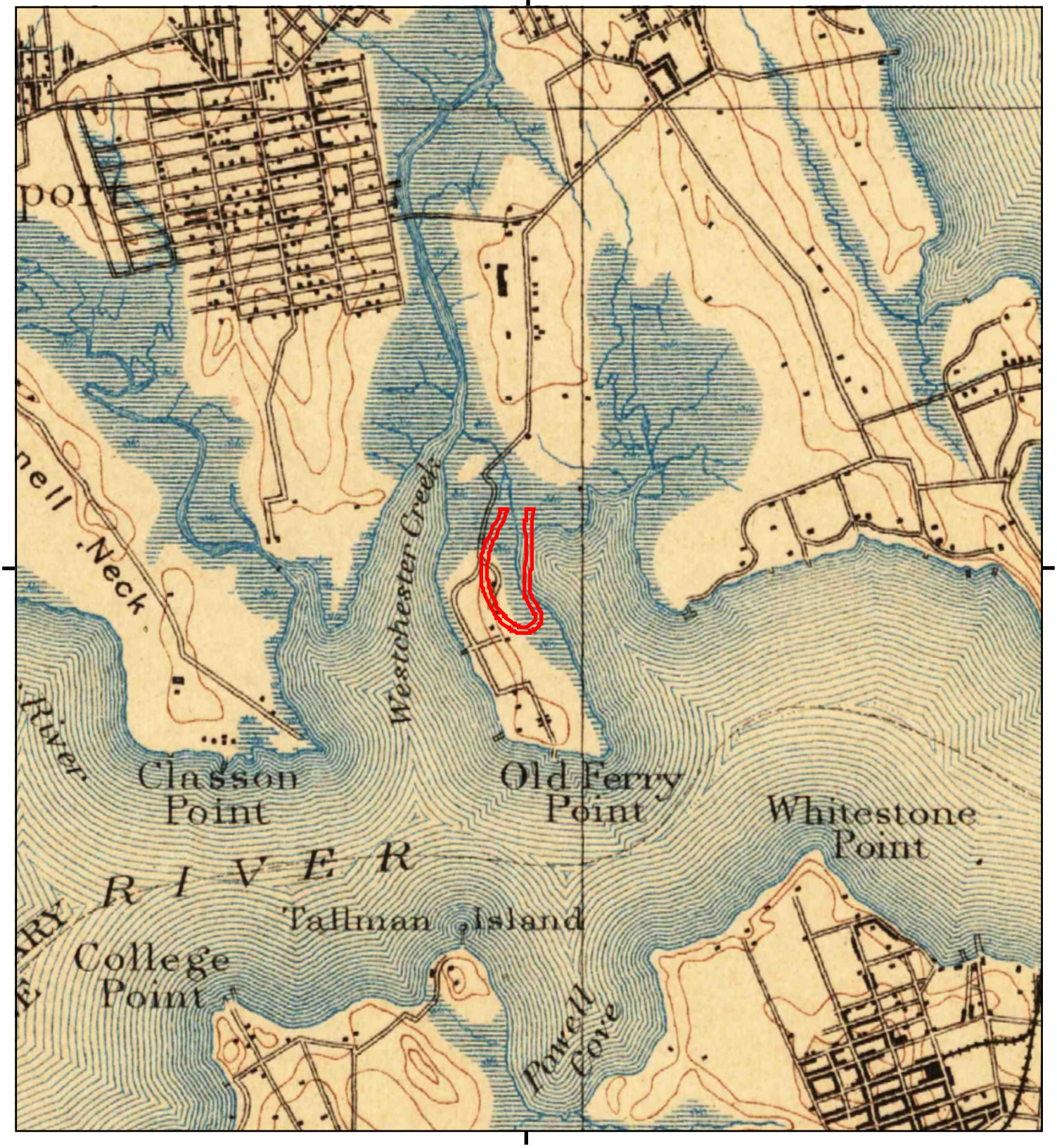

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Harlem, 1898, 15-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1897

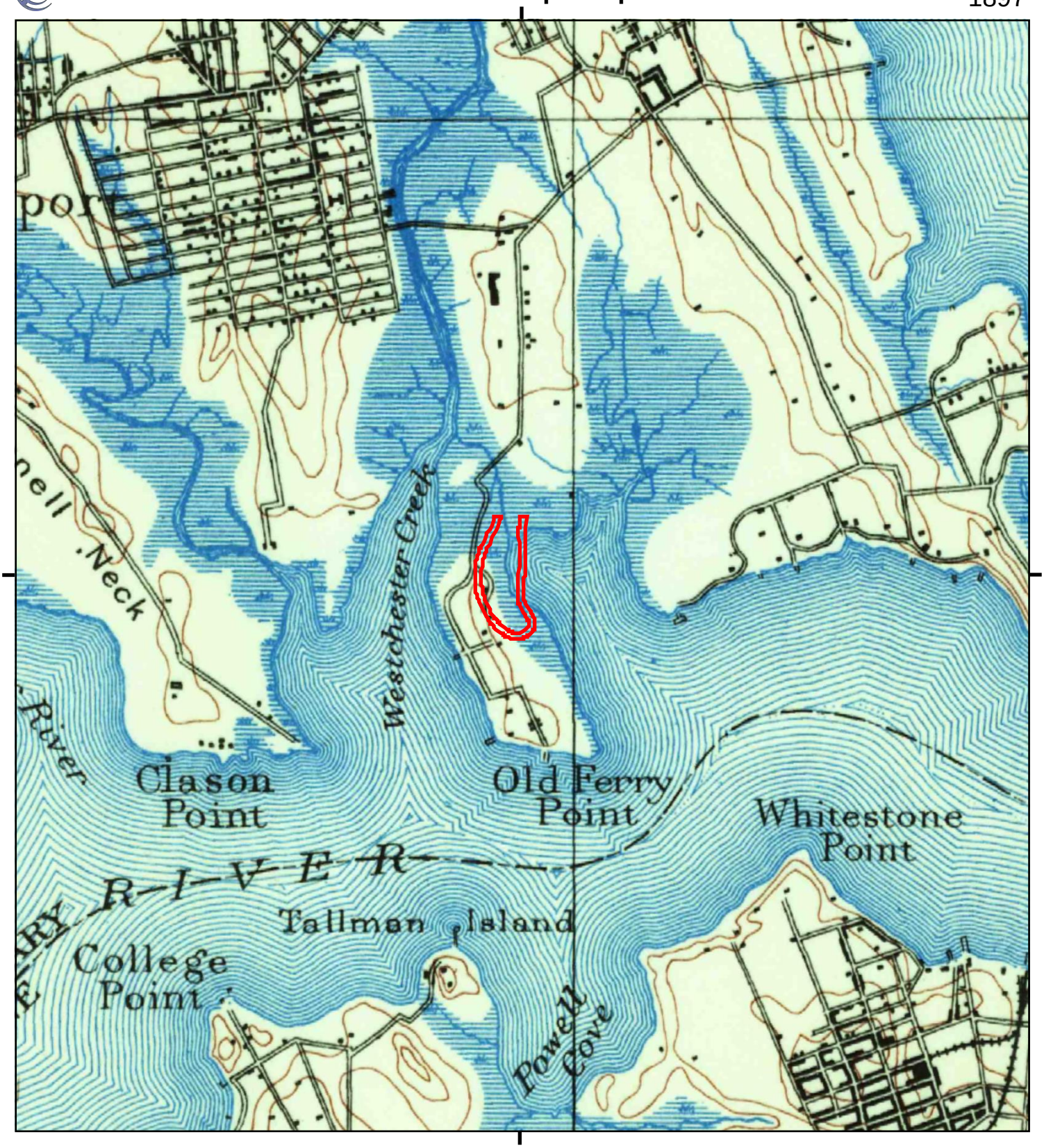

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Harlem, 1897, 15-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Proposed Ballys Casino - Ring Road
450 Hutchinson River Parkway
Bronx, NY 10465

Inquiry Number: 7720624.5
July 30, 2024

The EDR-City Directory Abstract

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Executive Summary

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at approximately five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1927 through current. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 2640 feet of the target property.

Summary information obtained is provided in the text of this report.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2020	EDR Digital Archive	-	X	X	-
2017	Cole Information	-	X	X	-
2014	Cole Information	-	X	X	-
2010	Cole Information	-	X	X	-
2005	Cole Information	-	X	X	-
	Hill-Donnelly Information Services	-	X	X	-
2000	Cole Information	-	X	X	-
	Cole Information Services	-	X	X	-
1995	Cole Information	-	X	X	-
1993	New York Telephone	-	X	X	-
1992	Cole Information	-	X	X	-
1983	New York Telephone	-	X	X	-
1976	New York Telephone Company	-	X	X	-
1971	New York Telephone	-	X	X	-
1965	New York Telephone Company	-	X	X	-
1961	New York Telephone	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1956	New York Telephone	-	X	X	-
1949	New York Telephone	-	X	X	-
1940	New York Telephone	-	X	X	-
1931	Manhattan and Bronx Directory Publishing Company Residential Directory	-	X	X	-
1927	New York Telephone	-	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
500 Hutchinson River Parkway	Client Entered	
492 Hutchinson River Pkwy	Client Entered	
525 Hutchinson River Pkwy	Client Entered	
555 Hutchinson River Pkwy	Client Entered	
545 Brush Ave	Client Entered	
550 Brush Ave	Client Entered	
650 Brush Ave	Client Entered	
699 Brush Ave	Client Entered	
3 Schley Ave	Client Entered	
1 Schley Ave	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

450 Hutchinson River Parkway
Bronx, NY 10465

FINDINGS DETAIL

Target Property research detail.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

BRUSH AVE

500 BRUSH AVE

Year	Uses	Source
1993	ARKAY ASSOCIATES INC	New York Telephone
	BCD MASONRY INC	New York Telephone
	DECON MECHANICAL CONTRACTORS	New York Telephone
	DECON PLUMBING INC	New York Telephone
	JMM MASON INC	New York Telephone

509 BRUSH AVE

Year	Uses	Source
1983	KOFSKY IRA J	New York Telephone
1976	SULLIVAN WM L	New York Telephone Company
1971	SULLIVAN WM L	New York Telephone

510 BRUSH AVE

Year	Uses	Source
1993	FABRICAS PEIXE CORP	New York Telephone
	SALVATI FOODS PRODS INC	New York Telephone

515 BRUSH AVE

Year	Uses	Source
1993	MILLER MARY	New York Telephone
1983	ELSASSEI CHAS J	New York Telephone
1976	ELSASSER CHAS J	New York Telephone Company
1971	ELSASSER CHAS J	New York Telephone
1965	ELSASSER CHAS J	New York Telephone Company

529 BRUSH AVE

Year	Uses	Source
1993	BARKER JOHN	New York Telephone

FINDINGS

Year	Uses	Source
1993	MARTIN J	New York Telephone
1976	DYNAMIC PAINTG & DECRATG CORP	New York Telephone Company
	EAST COAST PAINTING CORP	New York Telephone Company
1965	JENSEN E WM	New York Telephone Company

531 BRUSH AVE

Year	Uses	Source
1976	ASCENZO & SONS INC	New York Telephone Company
1971	ASCENZO & SONS INC	New York Telephone

535 BRUSH AVE

Year	Uses	Source
1965	ASCENZO & SONS INC	New York Telephone Company

536 BRUSH AVE

Year	Uses	Source
1965	WHITESTONE REALTY CORP	New York Telephone Company

550 BRUSH AVE

Year	Uses	Source
1993	SPIELBERG L & SONS INC	New York Telephone
1983	SPIELBERG L & SONS INC	New York Telephone
1976	SPIELBERG L & SONS INC	New York Telephone Company
1971	SISTO & DIMAIO INC	New York Telephone
	SPIELBERG L & SONS INC	New York Telephone

666 BRUSH AVE

Year	Uses	Source
1983	BIG APPLE WRECKING CORP	New York Telephone

680 BRUSH AVE

Year	Uses	Source
1976	CLEARY ANNA MRS	New York Telephone Company
1971	CLEARY ANNA MRS	New York Telephone
1965	CLEARY ANNA MRS	New York Telephone Company

FINDINGS

682 BRUSH AVE

Year	Uses	Source
1983	MURPHY EDWARD V	New York Telephone
1976	MURPHY EDWARD R	New York Telephone Company
	MURPHY MAUREEN	New York Telephone Company
1971	MURPHY EILEEN V	New York Telephone
1965	MAC INTYRE ROBT W	New York Telephone Company

BRUSH AVE

500 BRUSH AVE

Year	Uses	Source
2020	CABLE VISION OF NYC	EDR Digital Archive
2010	MATELL CONTRACTING CO INC	Cole Information
2005	Matell Contracting Co Inc	Hill-Donnelly Information Services
	ANDREW C KATZ & ASSOCIATES	Cole Information
2000	MATELL CONTRNG CO	Cole Information
	LIBERTY MECHANICAL CONTRACTORS	Cole Information
	R & R MECHANICAL INCORPORATED	Cole Information
	MATELL CONTRACTING COMPANY INCORPORATED	Cole Information
1995	DECON PLUMBING INC	Cole Information
	MATELL CONTRACTING CO INC	Cole Information
	DECON MECHANICAL CONTRACTORS	Cole Information
	R & R MECHANICAL INC	Cole Information
1992	DECON PLUMBING INC	Cole Information
	BCD MASONRY INC	Cole Information
	JMM MASON INC	Cole Information
	ARKAY ASSOCIATES INC	Cole Information
	DECON MECHANICAL CONTRACTORS	Cole Information
	MITTLEMAN, PHILIP A, ATTY	Cole Information

501 BRUSH AVE

Year	Uses	Source
2005	JOSE NUNEZ	Cole Information

FINDINGS

504 BRUSH AVE

Year	Uses	Source
2005	h Carey L P A	Hill-Donnelly Information Services
2000	CAREY LP	Cole Information
	CAREY LP	Cole Information
1995	CARE 4	Cole Information

509 BRUSH AVE

Year	Uses	Source
2020	MICHAEL PEREZ	EDR Digital Archive
	ROBERT HERNANDEZ	EDR Digital Archive
2017	ROBERT HERNANDEZ	Cole Information
	DESIRE PEREZ	Cole Information
2014	TUPAC HERNANDEZ	Cole Information
	DESIRE PEREZ	Cole Information
2010	ANN DELGADO	Cole Information
2005	OCCUPANT UNKNOWN	Cole Information
	Mercado Crystal V	Hill-Donnelly Information Services
2000	DAVID MERCADO	Cole Information
	RENE MERCADO	Cole Information
	OCCUPANT UNKNOWN	Cole Information

510 BRUSH AVE

Year	Uses	Source
2005	NCL	Hill-Donnelly Information Services
1995	FABRICAS PEIXE CORP	Cole Information
1992	SALVATI FOODS PRODS INC	Cole Information
	FABRICAS PEIXE CORP	Cole Information

515 BRUSH AVE

Year	Uses	Source
2020	LET ME BUILD LLC	EDR Digital Archive
	JAMES MILLER	EDR Digital Archive
	DREW ROUBLICK	EDR Digital Archive
	JOANNE MILLER	EDR Digital Archive

FINDINGS

Year	Uses	Source
2020	DAISY RODRIGUEZ	EDR Digital Archive
2014	PAUL MILLER	Cole Information
2010	J MILLER	Cole Information
2005	PAUL MILLER	Cole Information
	Miller Paul	Hill-Donnelly Information Services
	Miller Paul	Hill-Donnelly Information Services
	Miller Paul Aa	Hill-Donnelly Information Services
	Rodriguez Daisy A	Hill-Donnelly Information Services
2000	KELLY KERNWI	Cole Information
	J E MILLER	Cole Information
	MARY MILLER	Cole Information
	VINCENT POWERS	Cole Information
	JOANNE MILLER	Cole Information
	KELLY KERWIN	Cole Information
1993	MILLER Mary	New York Telephone
1992	MILLER, MARY	Cole Information
1940	Elsasser G	New York Telephone
1931	Elasser Gustave fireman	Manhattan and Bronx Directory Publishing Company Residential Directory

517 BRUSH AVE

Year	Uses	Source
2005	JOANNE MILLER	Cole Information

528 BRUSH AVE

Year	Uses	Source
1940	Ritch Sidney C	New York Telephone
1927	Ritch Sidney C r	New York Telephone

529 BRUSH AVE

Year	Uses	Source
2020	JOHN WEINHEIMER	EDR Digital Archive
	ANTHONY MEDICI	EDR Digital Archive
	PETER BONIFIGLIO	EDR Digital Archive
2005	Barker J A	Hill-Donnelly Information Services

FINDINGS

Year	Uses	Source
2005	Martin J AA	Hill-Donnelly Information Services
2000	J BARKER	Cole Information
	J MARTIN	Cole Information
1993	BARKER John	New York Telephone
	MARTIN J	New York Telephone
1992	BARKER, JOHN	Cole Information
	MARTIN, J	Cole Information

530 BRUSH AVE

Year	Uses	Source
1940	Miller Chas H	New York Telephone

531 BRUSH AVE

Year	Uses	Source
2000	OCCUPANT UNKNOWN	Cole Information
1927	Van Bakel P r	New York Telephone

545 BRUSH AVE

Year	Uses	Source
2020	UPS CUSTOMER CTR	EDR Digital Archive
2005	UNITED PARCEL SERVICE	Cole Information

550 BRUSH AVE

Year	Uses	Source
2020	D & J INDUSTRIES	EDR Digital Archive
	MCG CONSTRUCTION	EDR Digital Archive
	WHITESTONE ELECTRIC	EDR Digital Archive
	BUTLER FLEET	EDR Digital Archive
	LIBERTY MECHANICAL CONTRACTORS	EDR Digital Archive
2017	BUTLER FLEET	Cole Information
	MANAGEMENT IMPORT EXPORT LLC	Cole Information
	LIBERTY MECHANICAL CONTRACTORS	Cole Information
	D&J INDUSTRIES	Cole Information
2014	MANAGEMENT IMPORT EXPORT LLC	Cole Information
	LIBERTY MECHANICAL CONTRACTORS	Cole Information

FINDINGS

Year	Uses	Source
2014	BUTLER FLEET	Cole Information
	D&J INDUSTRIES	Cole Information
2010	BUTLER FLEET SVC	Cole Information
	LIBERTY MECHANICAL CONTRACTORS	Cole Information
	MICHAEL CONTILLO	Cole Information
2005	Liberty Mechanical Contractors	Hill-Donnelly Information Services
	LIBERTY MECHANICAL CONTRACTORS	Cole Information
	TOWER PROPERTY MANAGEMENT CO	Cole Information
	DECON STORAGE LLC	Cole Information
	OCCUPANT UNKNOWN	Cole Information
2000	LIBERTY MECHI	Cole Information
	R & R MACHI INC	Cole Information
	KEVIN TAYLOR	Cole Information
1995	SPIELBERG L & SONS INC	Cole Information
1992	SPIELBERG L & SONS INC	Cole Information

552 BRUSH AVE

Year	Uses	Source
1931	Hawlett Geo	Manhattan and Bronx Directory Publishing Company Residential Directory

630 BRUSH AVE

Year	Uses	Source
1927	Miller C H r	New York Telephone

650 BRUSH AVE

Year	Uses	Source
2020	WJD BEVERAGE INC	EDR Digital Archive
	BROOK BEVERAGE	EDR Digital Archive
	J WILD BEVERAGE CORP	EDR Digital Archive
	PEPSI BOTTLING GROUP	EDR Digital Archive
2017	BUHRE BEVERAGE DISTRIBUTING	Cole Information
	J WILD BEVERAGE CORP	Cole Information
	PEPSI COLA BOTTLING CO OF NY	Cole Information
	PEPSICO	Cole Information

FINDINGS

Year	Uses	Source
2017	BROOK BEVERAGE	Cole Information
2014	BUHRE BEVERAGE DISTRIBUTING	Cole Information
	J WILD BEVERAGE CORPORATION	Cole Information
	WEST SIDE BEVERAGE INCORPORATED	Cole Information
	PEPSICO	Cole Information
	BROOK BEVERAGE	Cole Information
	WJD BEVERAGE INCORPORATED	Cole Information
2010	PEPSI BOTTLING GROUP	Cole Information
	BUHRE BEVERAGE DISTRIBUTING	Cole Information
	BROOK BEVERAGE	Cole Information
	WJD BEVERAGE INC	Cole Information
	J WILD BEVERAGE CORP	Cole Information
	PEPSICOLA CO	Cole Information

680 BRUSH AVE

Year	Uses	Source
2020	RAFAEL CARABALLO	EDR Digital Archive
	BROOKE CARABALLO	EDR Digital Archive
2017	RAFAEL CARABALLO	Cole Information
2014	ISAAC OCASIO	Cole Information
2010	JOSE OCASIO	Cole Information
2005	H Ocasio Jose AA	Hill-Donnelly Information Services
	JOSE OCASIO	Cole Information
2000	JOSE VELEZ	Cole Information
	JOSE VELEZ	Cole Information
1992	VELEZ, JOSE	Cole Information
1931	Cleary Wm	Manhattan and Bronx Directory Publishing Company Residential Directory

682 BRUSH AVE

Year	Uses	Source
2017	DENIS PINO	Cole Information
2014	DENIS PINO	Cole Information
2010	DENNIS PINO	Cole Information

FINDINGS

Year	Uses	Source
2005	H Carrero S A Aa	Hill-Donnelly Information Services
	SALVADOR CARRERO	Cole Information
1992	RIVERA, JOSE	Cole Information

699 BRUSH AVE

Year	Uses	Source
2005	H 0 Penn Machinery Co	Hill-Donnelly Information Services
2000	CTRPLLR LFT TRCKS	Cole Information Services
	H O PENN MACHY CO	Cole Information Services
	H O PENN MACHY CO	Cole Information Services
	PENCO IND DIV H	Cole Information Services
1993	CATERPILLAR LIFT TRUCKS	New York Telephone
	H O PENN MACHINERY	New York Telephone
	H O PENN MACHINERY CO INC	New York Telephone
	PENCO INDUSTRIAL DIV OF H O PENN MACHINERY CO INC	New York Telephone
1983	HO PENN MACHINERY CO INC	New York Telephone
	PENN H O MACHINERY CO INC	New York Telephone

BRUSH AVE FRNT 1

550 BRUSH AVE FRNT 1

Year	Uses	Source
2020	MICHAEL CONTILLO	EDR Digital Archive
	AMANDA CONTILLO	EDR Digital Archive

BRUSH AVE FRNT 2

550 BRUSH AVE FRNT 2

Year	Uses	Source
2020	JOSEPH DEGLOMINI	EDR Digital Archive

EMERSON AVE

196 EMERSON AVE

Year	Uses	Source
1983	HICKSON GLENN	New York Telephone

FINDINGS

198 EMERSON AVE

Year	Uses	Source
1993	DELVALLE RICHARD	New York Telephone
1983	CALANO WALTER	New York Telephone
1976	CALANO WALTER	New York Telephone Company

200 EMERSON AVE

Year	Uses	Source
1993	GALLO PASQUALE	New York Telephone
1983	GALLO PASQUALE	New York Telephone
	NEFF MARTIN	New York Telephone
1976	ANASTASIO NEIL	New York Telephone Company
	GALLO PASQUALE	New York Telephone Company
1971	ANASTASIO NELI	New York Telephone
	GALLO PASQUALE	New York Telephone

204 EMERSON AVE

Year	Uses	Source
1983	ALOISIO VITO	New York Telephone
	CODISPOTI SUSAN	New York Telephone

232 EMERSON AVE

Year	Uses	Source
1993	PERSAUD STEVE	New York Telephone

236 EMERSON AVE

Year	Uses	Source
1976	CRISCUOLO LORRAINE	New York Telephone Company

238 EMERSON AVE

Year	Uses	Source
1993	CAMPANELLI JOSEPH J	New York Telephone
	LEVANTIS V	New York Telephone
1983	HEFFERAN GERARD V	New York Telephone
1976	HEFFERAN GERARD V	New York Telephone Company
	MOLINARI MARY P	New York Telephone Company

FINDINGS

244 EMERSON AVE

Year	Uses	Source
1993	TAKIS THOS	New York Telephone
	TRACZ JOHN	New York Telephone
1983	FRAHER D A	New York Telephone
	RUIZ FRANK	New York Telephone
	TAKIS THOS	New York Telephone
1976	HORGAN KENNETH F	New York Telephone Company
	TAKIS THOS	New York Telephone Company

250 EMERSON AVE

Year	Uses	Source
1993	GUIDO A	New York Telephone

258 EMERSON AVE

Year	Uses	Source
1993	RASMUSSEN L M	New York Telephone
1983	RASMUSSEN L M	New York Telephone
1976	RASMUSSEN WM A	New York Telephone Company

264 EMERSON AVE

Year	Uses	Source
1993	DEVINE D	New York Telephone
1983	PFUND ERWIN SR	New York Telephone
1976	PFUND ERWIN SR	New York Telephone Company
1971	PFUND ERWIN P JR	New York Telephone

266 EMERSON AVE

Year	Uses	Source
1976	BAPTIST PAT	New York Telephone Company

272 EMERSON AVE

Year	Uses	Source
1993	SAVINO DONALD	New York Telephone
1976	HAYES M	New York Telephone Company
1971	HAYES M	New York Telephone

FINDINGS

274 EMERSON AVE

Year	Uses	Source
1993	FERRARI S	New York Telephone
1983	FERRARI S	New York Telephone
1976	FERRARI S	New York Telephone Company

276 EMERSON AVE

Year	Uses	Source
1993	A-STEVENS SEWER & DRAIN CLNG	New York Telephone

278 EMERSON AVE

Year	Uses	Source
1983	MALTESE JOHN F	New York Telephone
1976	MALTESE JOHN F	New York Telephone Company

EMERSON AVE

196 EMERSON AVE

Year	Uses	Source
2020	ESWILDA HERNANDEZ	EDR Digital Archive
2017	ESWILDA HERNANDEZ	Cole Information
2014	DANIEL PIROZZI	Cole Information
2010	DANIEL PIROZZI	Cole Information
2005	NCL	Hill-Donnelly Information Services
	JOANNE OHARE	Cole Information
2000	J DOHERTY	Cole Information
	J DOHERTY	Cole Information
1993	PIROZZI FRANK	New York Telephone
1992	PIROZZI, FRANK	Cole Information
1983	PIROZZI FRANK	New York Telephone
1976	PIROZZI FRANK	New York Telephone Company
1971	HARTMANN RAYMOND D	New York Telephone
	PIROZZI FRANK	New York Telephone
1965	HARTMANN RAYMOND D	New York Telephone Company
	PIROZZI FRANK	New York Telephone Company
1961	HASTMANN RAYMOND D	New York Telephone

FINDINGS

Year	Uses	Source
1961	PIROZZI FRANK	New York Telephone
1931	Carney Theo	Manhattan and Bronx Directory Publishing Company Residential Directory

198 EMERSON AVE

Year	Uses	Source
2020	MICHAEL DIAZ	EDR Digital Archive
	VALLE DEL VALLE	EDR Digital Archive
	IVIS BONES	EDR Digital Archive
	BERNARDO DEL VALLE	EDR Digital Archive
	YVETTE FOY	EDR Digital Archive
	IVIS DIAZ	EDR Digital Archive
	RUDOLPH GADSON	EDR Digital Archive
2017	DALE WILLIAMS	Cole Information
2014	RUDOLPH GADSON	Cole Information
2010	MELVIN LANGLEY	Cole Information
2005	Langley M	Hill-Donnelly Information Services
	Williams Dale	Hill-Donnelly Information Services
	MELVIN LANGLEY	Cole Information
2000	OCCUPANT UNKNOWN	Cole Information
1993	DELVALLE Richard	New York Telephone
1992	DELVALLE, RICHARD	Cole Information
1971	ATTIS STEPHEN E JR	New York Telephone
	MORRIS TERENCE	New York Telephone
1965	TRUNCALI F J	New York Telephone Company
1961	MARTZ JOS M	New York Telephone
	TRUNCALI F J	New York Telephone
1931	Keller Walter	Manhattan and Bronx Directory Publishing Company Residential Directory
	Schineller Edw	Manhattan and Bronx Directory Publishing Company Residential Directory

200 EMERSON AVE

Year	Uses	Source
2020	LUCECITA GUEVARA	EDR Digital Archive

FINDINGS

Year	Uses	Source
2020	FRANCISCO GUEVARA	EDR Digital Archive
2017	ROSALYNN MEJIA	Cole Information
2010	MARILYN MANSOUR	Cole Information
	FRANCISCO GUEVARA	Cole Information
	MARILYN COSTA	Cole Information
2005	FRANCISCO GUEVARA	Cole Information
	H Gallo S F Aa	Hill-Donnelly Information Services
2000	APARTMENTS	Cole Information
	MARIO CARO	Cole Information
	MAUREEN HUSTON	Cole Information
	PASQUAL GALLO	Cole Information
	ELLEN CHADWICK	Cole Information
1993	GALLO Pasquale	New York Telephone
1992	GALLO, PASQUALE	Cole Information

201 EMERSON AVE

Year	Uses	Source
2000	MARIO CARO	Cole Information
	PASQUALE GALLO	Cole Information

202 EMERSON AVE

Year	Uses	Source
2020	JULIO RODRIGUEZ	EDR Digital Archive
	JENNIE FLORES	EDR Digital Archive
	MICHELLE FLORES	EDR Digital Archive
2017	MICHELLE FLORES	Cole Information
2014	JENNIE FLORES	Cole Information
2010	JULIO RODRIGUEZ	Cole Information
2005	EDUARDO LOPEZ	Cole Information
	H Lopez Eduardo A	Hill-Donnelly Information Services
2000	EDUARDO LOPEZ	Cole Information
	EDUARDO LOPEZ	Cole Information

FINDINGS

204 EMERSON AVE

Year	Uses	Source
2020	ASHEEK ALLI	EDR Digital Archive
	ANTHONY NAPOLEONIS	EDR Digital Archive
	BIBI ALLI	EDR Digital Archive
	SHABANA ALLI-ARJUNE	EDR Digital Archive
	MARIA NAPOLEONIS	EDR Digital Archive
	RAMDEW ARJUNE	EDR Digital Archive
	LUZ NAPOLEONIS	EDR Digital Archive
2017	ASHEEK ALLI	Cole Information
	JAY JUNE	Cole Information
	SHABANA ARJUNE	Cole Information
	MIRIAM RODRIGUEZ	Cole Information
2014	ASHEEK ALLI	Cole Information
	JAY KHAN	Cole Information
	DAMARIS PEREZ	Cole Information
	JAY JUNE	Cole Information
	SHABANA ARJUNE	Cole Information
	MIRIAM RODRIGUEZ	Cole Information
2010	ASHEEK ALLI	Cole Information
	SHABANA ARJUNE	Cole Information
	RAVI RAMPERSAD	Cole Information
2005	VICTOR RODRIGUEZ	Cole Information
	H Rodriguez Victor A	Hill-Donnelly Information Services
2000	VICTOR RODRIGUEZ	Cole Information
	VICTOR RODRIGUEZ	Cole Information
1976	CODISPOTI GUIDO	New York Telephone Company
1971	CODISPOTI GUIDO	New York Telephone

230 EMERSON AVE

Year	Uses	Source
2020	SHAYAN TAMAYO	EDR Digital Archive
	LINDA FRANCESCHINI	EDR Digital Archive
	NIKIELLA ESCAIERA	EDR Digital Archive

FINDINGS

Year	Uses	Source
2020	DAMARIS GARCIA	EDR Digital Archive
2017	SHAYAN TAMAYO	Cole Information
2014	SHAYAN TAMAYO	Cole Information
	DAMARIS GARCIA	Cole Information
2010	DAMARIS GARCIA	Cole Information
2005	M SANCHEZ	Cole Information
	GARCIA DEMARIS	Cole Information
	DAMARIS GARCIA	Cole Information
	232 NCL	Hill-Donnelly Information Services
2000	OCCUPANT UNKNOWN	Cole Information

232 EMERSON AVE

Year	Uses	Source
2020	FREDDY ROSARIO	EDR Digital Archive
	ANDREW DIGIUGNO	EDR Digital Archive
	ANGELICA CASTANOS	EDR Digital Archive
2017	BERNETTA WALKER	Cole Information
	ANDREW DIGIUGNO	Cole Information
	ANGELICA CASTANOS	Cole Information
	JESSICA JOHNSON	Cole Information
	JAMES POLITE	Cole Information
2014	BERNETTA WALKER	Cole Information
	DIGIUGNO ANDREW	Cole Information
	ANDREW DIGIUGNO	Cole Information
	ANGELICA CASTANOS	Cole Information
	JAMES POLITE	Cole Information
	JESSICA JOHNSON	Cole Information
2010	ANDREW DIGIUGNO	Cole Information
	GIEZI DELEON	Cole Information
2005	ANDREW DIGIUGNO	Cole Information
	GIEZI DELEON	Cole Information
	AYANNA TREASURE	Cole Information
2000	OCCUPANT UNKNOWN	Cole Information

FINDINGS

Year	Uses	Source
1993	PERSAUD Steve	New York Telephone
1992	PERSAUD, STEVE	Cole Information

236 EMERSON AVE

Year	Uses	Source
2020	HUMERA ALI	EDR Digital Archive
	BIANCA ELIO	EDR Digital Archive
	TABINDA RIASAT	EDR Digital Archive
	RAJA RIASAT	EDR Digital Archive
2017	HUMERA ALI	Cole Information
	VINCENT ELIO	Cole Information
	RAJA RIASAT	Cole Information
	SOBIA PARVEEN	Cole Information
2014	HUMERA ALI	Cole Information
	VINCENT ELIO	Cole Information
	CHRISTOPHER WHITE	Cole Information
	ANN FISS	Cole Information
2010	ANN FISS	Cole Information
	CHRISTOPHER WHITE	Cole Information
	ANNETTE DELARA	Cole Information
	VINCENT CRISCUOLO	Cole Information
2005	Buxton William R V	Hill-Donnelly Information Services
	Crisuolo L AA	Hill-Donnelly Information Services
2000	L CRISUOLO 98 863-8115	Cole Information
	L CRISUOLO	Cole Information

238 EMERSON AVE

Year	Uses	Source
2020	SABRINA CALDERON	EDR Digital Archive
	DANNY MENDEZ	EDR Digital Archive
	JAY DANNY	EDR Digital Archive
	ELIZABETH GORDILLS	EDR Digital Archive
2017	LOUIS CARDELLO	Cole Information
	SABRINA CALDERON	Cole Information

FINDINGS

Year	Uses	Source
2014	SABRINA CALDERON	Cole Information
	JAY DANNY	Cole Information
2010	DANNY MENDEZ	Cole Information
2005	DANNY MENDEZ	Cole Information
	ELIZABETH GORDILLS	Cole Information
	Gordills E v	Hill-Donnelly Information Services
2000	VICTOR BETANCOURT	Cole Information
	VICTOR BETANCOURT	Cole Information
1993	CAMPANELLI Joseph J	New York Telephone
	LEVANTIS V	New York Telephone
1992	CAMPANELLI, JOSEPH J	Cole Information

239 EMERSON AVE

Year	Uses	Source
2000	OCCUPANT UNKNOWN	Cole Information

244 EMERSON AVE

Year	Uses	Source
2020	SYLVIA TAKIS	EDR Digital Archive
	THOMAS TAKIS	EDR Digital Archive
	THEODORE TAKIS	EDR Digital Archive
2017	THOMAS TAKIS	Cole Information
2014	THOMAS TAKIS	Cole Information
2010	THOMAS TAKIS	Cole Information
2005	ASSET LINK LLC	Cole Information
	THOMAS TAKIS	Cole Information
	H Takides Ted A	Hill-Donnelly Information Services
	Takis Thomas AV	Hill-Donnelly Information Services
2000	TED TAKIDES	Cole Information
	THOMAS TAKIS	Cole Information
	TED TAKIDES	Cole Information
	THOMAS TAKIS	Cole Information
1993	TAKIS Thos	New York Telephone
	TAKO Michael % 364 9564	New York Telephone

FINDINGS

Year	Uses	Source
1993	TRACZ John	New York Telephone
1992	TAKIS, THOS	Cole Information
	TRACZ, JOHN	Cole Information
1971	LAFFERTY RONALD	New York Telephone
1965	LAFFERTY LOUIS J	New York Telephone Company
1961	LAFFERTY LOUIS J	New York Telephone

245 EMERSON AVE

Year	Uses	Source
1931	Farrell Patk	Manhattan and Bronx Directory Publishing Company Residential Directory

250 EMERSON AVE

Year	Uses	Source
2020	JOSEPH RAMOS	EDR Digital Archive
	ANTONIO RAMOS	EDR Digital Archive
2017	ANGEL WILSON	Cole Information
2014	DENISE GOMEZ-RAMOS	Cole Information
	RAMOS ANTONIO	Cole Information
	ANA VAZQUEZ	Cole Information
	ANDRE ROBINSON	Cole Information
	MARCUS ROSARIO	Cole Information
2010	ANTONIO RAMOS	Cole Information
	ANA VAZQUEZ	Cole Information
2005	ANTONIO RAMOS	Cole Information
	H Ramos A G AA	Hill-Donnelly Information Services
2000	W G HONEGGER JR	Cole Information
	W HONEGGER	Cole Information
1993	GUIDO A	New York Telephone
1992	GUIDO, A	Cole Information

252 EMERSON AVE

Year	Uses	Source
2020	ANDREW MORALES	EDR Digital Archive
	GUY MULLER	EDR Digital Archive

FINDINGS

Year	Uses	Source
2020	ANTHONY GENADIO	EDR Digital Archive
	CAROL TRIASSI	EDR Digital Archive
	MINOO TAVAZOI	EDR Digital Archive
2017	VIRGINIA PEARCE	Cole Information
2014	PEARCE VIRGINIA	Cole Information
	VIRGINIA PEARCE	Cole Information
	ANTHONY GENADIO	Cole Information
	DOMENICA GUIDO	Cole Information
2010	DOMEN PEARCE	Cole Information
	ANTHONY GENADIO	Cole Information
	DOMENICA GUIDO	Cole Information
2005	DOMEN PEARCE	Cole Information
	h Pearce V AV	Hill-Donnelly Information Services
2000	CECILIA GONZALEZ	Cole Information
	CECILIA GONZALEZ	Cole Information

258 EMERSON AVE

Year	Uses	Source
2020	MARIEL QUILES	EDR Digital Archive
	QUILES ELADIO	EDR Digital Archive
	BRANDON QUILES	EDR Digital Archive
	CHRISTOPHER QUILES	EDR Digital Archive
2017	ELADIO QUILES	Cole Information
2014	ELADIO QUILES	Cole Information
2010	OCCUPANT UNKNOWN	Cole Information
2005	HIRAM COLON	Cole Information
	H Colon H A	Hill-Donnelly Information Services
2000	HIRAM COLON	Cole Information
1993	RASMUSSEN L M	New York Telephone
1992	RASMUSSEN, L M	Cole Information
1971	PFUND WM	New York Telephone
1965	PFUND WM	New York Telephone Company
1961	PFUND WM	New York Telephone

FINDINGS

264 EMERSON AVE

Year	Uses	Source
2020	LYNN DEVINE	EDR Digital Archive
	DENNIS DEVINE	EDR Digital Archive
2014	DEVINE DENNIS	Cole Information
2010	DENNIS DEVINE	Cole Information
2005	KAREN BASMUSSEN	Cole Information
	DENNIS DEVINE	Cole Information
	KAREN RASMUSSEN	Cole Information
	Devine D A	Hill-Donnelly Information Services
2000	D DEVINE	Cole Information
	DEVINE DENNIS	Cole Information
	DENNIS DEVINE	Cole Information
1993	DEVINE D	New York Telephone
1992	DEVINE, D	Cole Information
1965	PFUND ERWIN	New York Telephone Company
1961	PFUND ERWIN	New York Telephone

266 EMERSON AVE

Year	Uses	Source
2020	JULES HAMILTON	EDR Digital Archive
	LOREEN WALKER	EDR Digital Archive
	MARIE HAMILTON	EDR Digital Archive
	KYLE HAMILTON	EDR Digital Archive
2017	MARIE BROWN-HAMILTON	Cole Information
	LOREEN WALKER	Cole Information
2014	JULES HAMILTON	Cole Information
	ICILDA HISLOP	Cole Information
	LOREEN WALKER	Cole Information
2010	VICTOR GONZALEZ	Cole Information
	JULES HAMILTON	Cole Information
	I HISLOP	Cole Information
	LOREEN WALKER	Cole Information
	MARIE BROWN	Cole Information

FINDINGS

Year	Uses	Source
2005	LOREEN WALKER	Cole Information
	Walker Loreen	Hill-Donnelly Information Services
2000	LAURIE STEWART	Cole Information
	LAURIE STEWART	Cole Information
1971	DUFFY M E	New York Telephone
1965	FALCIANO THOS L	New York Telephone Company
	GAMBOL ROY	New York Telephone Company
1961	FALCIANO VICTORIA MRS	New York Telephone
1931	Camerino Wm	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Camerino E L r	New York Telephone

268 EMERSON AVE

Year	Uses	Source
2020	MARCO LOPEZ	EDR Digital Archive
	JOSEPH HERNANDEZ	EDR Digital Archive
	MARTHA LOPEZ	EDR Digital Archive
	CHRISTOPHER LOPEZ	EDR Digital Archive
	KARLA LAGUNA	EDR Digital Archive
	LIZZETTE RAMOS	EDR Digital Archive
2017	MARCO LOPEZ	Cole Information
2014	MARCO LOPEZ	Cole Information
	VICTOR CRAIG	Cole Information
	KARLA LAGUNA	Cole Information
2010	GABRIEL DELGADO	Cole Information
	MARCO LOPEZ	Cole Information
	KARLA LAGUNA	Cole Information
2005	RAFAEL CASIANO	Cole Information
	MADELINE RIOPEDRE	Cole Information
	NCL	Hill-Donnelly Information Services
2000	H MERCADO JR	Cole Information
	H MERCADO	Cole Information
	L RAMOS	Cole Information

FINDINGS

270 EMERSON AVE

Year	Uses	Source
2020	RAYMOND CLEMENTZ	EDR Digital Archive
	FRANK MATOS	EDR Digital Archive
2017	RAYMOND CLEMENTZ	Cole Information
2014	RAYMOND CLEMENTZ	Cole Information
2010	CARLOS GONZALEZ	Cole Information
	FRANK MATOS	Cole Information
2005	OLGA SHAVEZ	Cole Information
	LAWRENCE MATOS	Cole Information
	h Gonzalez Carlos v	Hill-Donnelly Information Services
2000	OLGA SHAVEZ	Cole Information
	PETER TORRES	Cole Information
	PETER TORRES	Cole Information
	OLGA SHAVEZ	Cole Information

272 EMERSON AVE

Year	Uses	Source
2020	DONALD SAVINO	EDR Digital Archive
	GRETA CARLUCCI	EDR Digital Archive
2017	DONALD SAVINO	Cole Information
2014	DONALD SAVINO	Cole Information
2010	DONALD SAVINO	Cole Information
2005	JOHN FRANZ	Cole Information
	h Savino Donald AO	Hill-Donnelly Information Services
2000	GRETA CARLUCCI	Cole Information
	GRETA CARLUCCI	Cole Information
1993	SAVINO Donald	New York Telephone
1992	SAVINO, DONALD	Cole Information
1965	HAYES JOS M	New York Telephone Company
1961	COMERFORD THOS J JR	New York Telephone

274 EMERSON AVE

Year	Uses	Source
2020	ENILZA BATISTA	EDR Digital Archive

FINDINGS

Year	Uses	Source
2020	RICARDO COLON	EDR Digital Archive
	MARTHA LOPEZ	EDR Digital Archive
	MARCO LOPEZ	EDR Digital Archive
	CHRISTINA LAPIERRE	EDR Digital Archive
2017	RICARDO COLON	Cole Information
2014	MARCO LOPEZ	Cole Information
2010	MARCO LOPEZ	Cole Information
2005	MARCO LOPEZ	Cole Information
	Lopez M L	Hill-Donnelly Information Services
1993	FERRARI S	New York Telephone
1992	FERRARI, S	Cole Information
1971	FERRARI STELLA MRS	New York Telephone
1965	FERRARI STELLA MRS	New York Telephone Company
1961	BRAZAITIS PETER J	New York Telephone
	FERRARI STELLA MRS	New York Telephone

276 EMERSON AVE

Year	Uses	Source
2020	CHRISTINA ANNUNZIATA	EDR Digital Archive
	FRANCINE PESCE	EDR Digital Archive
	DAMARIS RAMIREZ	EDR Digital Archive
	FRANCINE ANNUNZIATA	EDR Digital Archive
	DOMINIC ANNUNZIATA	EDR Digital Archive
2017	DOMINIC ANNUNZIATA	Cole Information
2014	FRAN ANNUNZIATA	Cole Information
2010	FRAN ANNUNZIATA	Cole Information
2005	Annunziata Fran A	Hill-Donnelly Information Services
	Pesce Gerard 3 AA	Hill-Donnelly Information Services
	FRAN ANNUNZIATA	Cole Information
2000	EVELYN PESCE	Cole Information
	FRAN ANNUNZIATA	Cole Information
1995	A-STEVENS SEWER & DRAIN CLNG	Cole Information
1993	PESCE GERARD J	New York Telephone

FINDINGS

Year	Uses	Source
1992	A-STEVENS SEWER & DRAIN CLNG	Cole Information
	PESCE, GERARD J	Cole Information
1983	PESCE GERARD J	New York Telephone
1976	PESCE GERARD J	New York Telephone Company
1971	PESCE GERARD J	New York Telephone
1965	PESCE GERARD J	New York Telephone Company
1961	PESCE GERARD J	New York Telephone

278 EMERSON AVE

Year	Uses	Source
2020	HAWA LAMIN	EDR Digital Archive
	MARIE HILL	EDR Digital Archive
	MARK HILL	EDR Digital Archive
	MAGLENSIE MOTLEY	EDR Digital Archive
	MIYA HILL	EDR Digital Archive
2017	MIYA HILL	Cole Information
2014	MIYA HILL	Cole Information
2010	MARIE SAINTHILL	Cole Information
2005	St Hill Marie AA	Hill-Donnelly Information Services
	1562 WHITE PLAINES RD INC	Cole Information
	JAMES HILL	Cole Information
2000	JAMES HILL	Cole Information
	JAMES HILL	Cole Information
1992	MALTESE, IDA	Cole Information
1965	HICKSON JONN	New York Telephone Company
1961	HICKSON JOHN	New York Telephone

HARDING AVE

2576 HARDING AVE

Year	Uses	Source
2020	MARY SAVAGE	EDR Digital Archive
	DAVID SAVAGE	EDR Digital Archive
	MARGARET DALY	EDR Digital Archive

FINDINGS

Year	Uses	Source
2017	DAVID SAVAGE	Cole Information
2014	DAVID SAVAGE	Cole Information
2010	DAVID SAVAGE	Cole Information
2000	MARCIA MEYER	Cole Information
	DAVID SAVAGE	Cole Information
1992	MEYER, RICHD C	Cole Information
	LEGATO, JOSEPH	Cole Information

2577 HARDING AVE

Year	Uses	Source
2020	BARBARA NOVELLINO	EDR Digital Archive
	PATRICIA JONAP	EDR Digital Archive
2017	BARBARA NOVELLINO	Cole Information
2014	RICHARD ANDERSON	Cole Information
2010	RICHARD ANDERSON	Cole Information
2005	RICHARD ANDERSON	Cole Information
2000	RICHARD ANDERSON	Cole Information
1992	ANDERSON, GUSTAVE M	Cole Information

2578 HARDING AVE

Year	Uses	Source
2020	FEONIA JAMES-JONES	EDR Digital Archive
	JAMES-JONES FEONIA	EDR Digital Archive
2017	MARLON JONES	Cole Information
2014	MARLON JONES	Cole Information
2005	WILLIAM ORTIZ	Cole Information
2000	WILLIAM ORTIZ	Cole Information

2579 HARDING AVE

Year	Uses	Source
2020	ELSA SEGUNDO	EDR Digital Archive
	CARLOS AQUINO	EDR Digital Archive
	CHRISTOPHER BARBOSA	EDR Digital Archive
	ANGELA AQUINO	EDR Digital Archive

FINDINGS

Year	Uses	Source
2017	CHRIS BARBOSA	Cole Information
2014	ELSA SEGUNDO	Cole Information
	EDITH LOPEZ	Cole Information
2010	ELSA SEGUNDO	Cole Information
	EDITH LOPEZ	Cole Information
2005	ANTHONY DELGADO	Cole Information
	ANTHONY DIAZ	Cole Information
2000	MARY LILLIS	Cole Information

2580 HARDING AVE

Year	Uses	Source
2020	VICTORIA ALVARADO	EDR Digital Archive
	LINDA ALVARADO	EDR Digital Archive
	JAMES ALVARADO	EDR Digital Archive
2017	JAMES ALVARADO	Cole Information
2014	JAMES ALVARADO	Cole Information
2010	JAMES ALVARADO	Cole Information
2005	JAMES ALVARADO	Cole Information
2000	CAROL HILL	Cole Information

2581 HARDING AVE

Year	Uses	Source
2020	BRUNILDA FALCON	EDR Digital Archive
2017	BRUNILDA FALCON	Cole Information
2014	ANTHONY MONITTO	Cole Information
2010	ANTHONY MONITTO	Cole Information
2005	ANTHONY MONITTO	Cole Information
2000	MARIA MONITTO	Cole Information

2582 HARDING AVE

Year	Uses	Source
2020	ERIC COLEMAN	EDR Digital Archive
2017	COLEMAN ERIC	Cole Information
2014	OCCUPANT UNKNOWN	Cole Information

FINDINGS

Year	Uses	Source
2010	OCCUPANT UNKNOWN	Cole Information
2005	OCCUPANT UNKNOWN	Cole Information
2000	THOMAS DOERR	Cole Information
1992	DOERR, THOMAS G	Cole Information

2583 HARDING AVE

Year	Uses	Source
2020	EDMUND MCCORMACK	EDR Digital Archive
	FRANCIS DOYLE	EDR Digital Archive
	NATALIE ROMAN	EDR Digital Archive
2017	DOMINGO TORRES	Cole Information
2014	DOYLE FRANCIS	Cole Information
2010	FRANCIS DOYLE	Cole Information
2005	FRANCIS DOYLE	Cole Information
2000	FRANCIS DOYLE	Cole Information
1992	LOMBARDO, PAUL	Cole Information

2584 HARDING AVE

Year	Uses	Source
2020	CRYSTAL LOPEZ	EDR Digital Archive
	CHRISTOPHER GONZALEZ	EDR Digital Archive
	OMAR CRUZ	EDR Digital Archive
2017	MARIVEL SALCEDO	Cole Information
2014	SUZANNE GONZALEZ	Cole Information
2010	SUZANNE GONZALEZ	Cole Information
2005	BELEN GONZALEZ	Cole Information
2000	MARIO COLON	Cole Information

2585 HARDING AVE

Year	Uses	Source
2020	CLARA ROSADO	EDR Digital Archive
	DIANA CLEMENTI	EDR Digital Archive
	FAUSTO HENRIQUEZ	EDR Digital Archive
2014	DIANA CLEMENTI	Cole Information

FINDINGS

Year	Uses	Source
2014	DIANA GRIFFORD	Cole Information
2010	PATRICK BIASE	Cole Information
	DIANA CLEMENTI	Cole Information
	DIANA GRIFFORD	Cole Information
2005	DAVID PETILLO	Cole Information
	DIANA GIFFORD	Cole Information
	DIANA CLEMENTI	Cole Information
	DIANA GRIFFORD	Cole Information
1992	GIFFORD, MICHAEL	Cole Information

2586 HARDING AVE

Year	Uses	Source
2020	STEVEN MUHAMMAD	EDR Digital Archive
	GISELLA QUIJIJE	EDR Digital Archive
	RITA MUHAMMAD	EDR Digital Archive
2017	STEVEN MUHAMMAD	Cole Information
	GISELLA QUIJIJE	Cole Information
	MARIA SERRANO	Cole Information

2587 HARDING AVE

Year	Uses	Source
2020	LUCIANO PEDRO	EDR Digital Archive
	JOSEFINA MOLINA	EDR Digital Archive
	SILVERIO APREA	EDR Digital Archive
2017	AGUSTINO APREA	Cole Information
	JOSEFINA MOLINA	Cole Information
2014	SILVERIO APREA	Cole Information
2010	OCCUPANT UNKNOWN	Cole Information
	SILVERIO APREA	Cole Information
2005	OCCUPANT UNKNOWN	Cole Information
	MICHAEL KOSINENKO	Cole Information
2000	A APREA	Cole Information
1992	KOSINENKO, F	Cole Information
	APREA, AGUSTINO	Cole Information

FINDINGS

Year	Uses	Source
1992	APREA, SILVERIO	Cole Information

2589 HARDING AVE

Year	Uses	Source
2020	RAYMOND MIURA	EDR Digital Archive
	MAUREEN GRECO	EDR Digital Archive
	ANTHONY GRECO	EDR Digital Archive
	WILLIAM GRECO	EDR Digital Archive
2017	RAY MIURA	Cole Information
	WILLIAM GRECO	Cole Information
2014	WILLIAM GRECO	Cole Information
2010	PATRICIA GRECO	Cole Information
	MAUREEN GREGO	Cole Information
	SCOTT BABIAK	Cole Information
2005	PATRICIA GRECO	Cole Information
	RICHARD SCHMIDT	Cole Information
	SCOTT BABIAK	Cole Information

HOSMAR AVE

277 HOSMAR AVE

Year	Uses	Source
1983	DE ROSE JOHN	New York Telephone

HOSMER AVE

237 HOSMER AVE

Year	Uses	Source
1993	PICCININNI MARIE	New York Telephone
1983	PICCININNI MARIE	New York Telephone
1976	FERRARI V	New York Telephone Company
	PICCININNI MARIE	New York Telephone Company
1971	JUSITS JOS	New York Telephone
1965	JUSITS JOS	New York Telephone Company

FINDINGS

245 HOSMER AVE

Year	Uses	Source
1971	GERRETS HENRY C	New York Telephone
1965	GERRETS HENRY C	New York Telephone Company

246 HOSMER AVE

Year	Uses	Source
1993	MEURER MARTIN	New York Telephone
1983	CARRIQUE CONSTANTINO	New York Telephone
	MEURER MARTIN	New York Telephone
1976	MEURER MARTIN	New York Telephone Company
1971	MEURER MARTIN	New York Telephone
1965	MEURER MARTIN	New York Telephone Company
	ROJAS E L	New York Telephone Company

277 HOSMER AVE

Year	Uses	Source
1993	DEROSE JOHN	New York Telephone
1976	BAUER ANITA M	New York Telephone Company
1971	BAUER ANITA M	New York Telephone
1965	BAUER ANITA M	New York Telephone Company

278 HOSMER AVE

Year	Uses	Source
1976	DE ROSE JOHN	New York Telephone Company
1971	GRIFFIN GERALD	New York Telephone
1965	HORAN EUGENE V	New York Telephone Company

HOSMER AVE

237 HOSMER AVE

Year	Uses	Source
2005	h Piccininni Marie AA	Hill-Donnelly Information Services
2000	DOLORES CORRADO	Cole Information
1993	PICCININNI Marie	New York Telephone

FINDINGS

240 HOSMER AVE

Year	Uses	Source
2020	ANTONIO GARCIA	EDR Digital Archive
	MARIA TORRES	EDR Digital Archive
	ERIC GARCIA	EDR Digital Archive
2017	ANTONIO GARCIA	Cole Information
	NELIDA RUIZ	Cole Information
	MARIA TORRES	Cole Information
2014	TORRES MARIA	Cole Information
	EDDIE ARENAS	Cole Information
	MARIA TORRES	Cole Information
	ANGEL CHAVEZ	Cole Information
	MARIE SMITH	Cole Information
2010	ORNAN CORCINO	Cole Information
	MARIA TORRES	Cole Information
2005	Corcino Oman v YO	Hill-Donnelly Information Services

245 HOSMER AVE

Year	Uses	Source
2020	JOACHIM RILEY	EDR Digital Archive
	ELBA RILEY	EDR Digital Archive
2014	JOSEPH RILEY	Cole Information
2010	OCCUPANT UNKNOWN	Cole Information
2005	H Coppinger R J Sr A	Hill-Donnelly Information Services
2000	RAYMOND COPPINGER	Cole Information

246 HOSMER AVE

Year	Uses	Source
2014	LINDA CICALE	Cole Information
2010	LINDA CICALE	Cole Information
2005	NCL	Hill-Donnelly Information Services
2000	LUCIEN CHOUINARD	Cole Information
1993	MEURER Martin	New York Telephone
1992	MEURER, MARTIN	Cole Information
1940	Meurer Martin	New York Telephone

FINDINGS

248 HOSMER AVE

Year	Uses	Source
2020	WEI LIN	EDR Digital Archive
	ASHLEY PAGE	EDR Digital Archive
	SABRINA PADILLA	EDR Digital Archive
2017	CHRISITNE GIFF	Cole Information
	NORBERTO HIERRO	Cole Information
	ZHOU LIN	Cole Information
2014	CHRISITNE GIFF	Cole Information
	JING LIN	Cole Information
2010	CHEN LEI	Cole Information
	ANDREW FELDMAN	Cole Information
	JING LIN	Cole Information
2005	JING LIN	Cole Information

250 HOSMER AVE

Year	Uses	Source
2020	BELKIS PEREZ	EDR Digital Archive
	DALILA PEREZ	EDR Digital Archive
2017	BELKIS PEREZ	Cole Information
2014	BIANCA MALDONADO	Cole Information
	BELKIS PEREZ	Cole Information
2010	BELKIS PEREZ	Cole Information
2005	BELKIS PEREZ	Cole Information

251 HOSMER AVE

Year	Uses	Source
2020	SAJIT TAXI INC	EDR Digital Archive
	SYED SHAMSUZZAMAN	EDR Digital Archive
	FARAH SHAMSUZZAMAN	EDR Digital Archive
	ANGELA SALAZAR	EDR Digital Archive
2017	ANGELA SALAZAR	Cole Information
2014	SYED SHAMSUZZAMAN	Cole Information
	ANGELA SALAZAR	Cole Information
2010	ANGELA DURAN	Cole Information

FINDINGS

Year	Uses	Source
2010	SYED SHAMSUZZAMAN	Cole Information
2005	JASHIM WORLDWIDE	Cole Information
	SYED SHAMSUZZAMAN	Cole Information
	JASHIM AHMED	Cole Information
	Ahmed Jashim v	Hill-Donnelly Information Services
	Jashim Waorldw ide	Hill-Donnelly Information Services
	Shamsuzzaman Syed A	Hill-Donnelly Information Services
2000	SYED SHAMSUZZAMAN	Cole Information

252 HOSMER AVE

Year	Uses	Source
2020	ATOLIA MCFARLANE	EDR Digital Archive
	MIRTHA MALDONADO	EDR Digital Archive
	MEI ZHU	EDR Digital Archive
	FANG MEI	EDR Digital Archive
	LEI CHEN	EDR Digital Archive
2017	CUIFEN DONG	Cole Information
2014	KATHERINE THATCHER	Cole Information
2010	FANG MEI	Cole Information
2005	MEI ZHU	Cole Information
	h Zhu Mel Fang v	Hill-Donnelly Information Services

253 HOSMER AVE

Year	Uses	Source
2020	DEBORAH FELDMAN	EDR Digital Archive
	CHENG CHUEN	EDR Digital Archive
	PARISSA SUAREZ	EDR Digital Archive
	JOHN CHENG	EDR Digital Archive
2017	MELISSA GONZALEZ	Cole Information
	PARISSA SUAREZ	Cole Information
2014	MELISSA GONZALEZ	Cole Information
	LIEN NGUYEN	Cole Information
	CAROLINE BRANCATO	Cole Information
	ALFRED ROMAN	Cole Information

FINDINGS

Year	Uses	Source
2010	CAROLINE BRANCATO	Cole Information
	MICHAEL HADSHIAN	Cole Information
	BRUCE FELDMAN	Cole Information
2005	CAROLINE BRANCATO	Cole Information
	C BRANCTO	Cole Information
	ABE MASSA	Cole Information
	h Massa Barbara A A	Hill-Donnelly Information Services
2000	CHRIS VERINI	Cole Information
	MICHAEL HADSHIAN	Cole Information

254 HOSMER AVE

Year	Uses	Source
2020	VICTOR GARCIA	EDR Digital Archive
	IRENE YUSIM	EDR Digital Archive
	STACY GARCIA	EDR Digital Archive
	KAREN CHEDDESINGH	EDR Digital Archive
	SALVATORE CAPALBO	EDR Digital Archive
	MERCEDEZ WILLIAMS	EDR Digital Archive
	DELANO WILLIAMS	EDR Digital Archive
	FELICIANO RAMIREZ	EDR Digital Archive
2017	LINDA GARCIA	Cole Information
	ROBERT GRIFFIN	Cole Information
2014	ROBERT GRIFFIN	Cole Information
	FELICIANO RAMIREZ	Cole Information
2010	IRENE YUSIM	Cole Information
	ANGEL SOSA	Cole Information
2005	IRENE YUSIM	Cole Information
	SALVATORE CAPALBO	Cole Information
	STEVEN ZABSKI	Cole Information
	NCL	Hill-Donnelly Information Services

255 HOSMER AVE

Year	Uses	Source
2020	HYACINTH SIMPSON	EDR Digital Archive

FINDINGS

Year	Uses	Source
2020	ERROL ANGELL	EDR Digital Archive
	CHRISTINA DECLET	EDR Digital Archive
	RICHARD REID	EDR Digital Archive
2017	HYACINTH SIMPSON	Cole Information
	JOANNE RIVERA	Cole Information
	CHRISTINA DECLET	Cole Information
	DOMINIQUE ANGELL	Cole Information
2014	HYACINTH SIMPSON	Cole Information
	DIEGO DEJESUS	Cole Information
	PEDRO MARTINEZ	Cole Information
	CHRISTINA DECLET	Cole Information
	OCCUPANT UNKNOWN	Cole Information
2010	AHMED MOSTAQUE	Cole Information
	HYACINTH SIMPSON	Cole Information
	DIEGO DEJESUS	Cole Information
	ERNIE OBRIEN	Cole Information
	OCCUPANT UNKNOWN	Cole Information
	SIMPSON HYACINTH	Cole Information
2005	AHMED MOSTAQUE	Cole Information
	ISABEL MENDEZ	Cole Information
	MOHAMMAD AHMED	Cole Information
	MASTAQUE AHRIED	Cole Information
	Rugs D vo	Hill-Donnelly Information Services

256 HOSMER AVE

Year	Uses	Source
2020	ASANTE BRIGHT	EDR Digital Archive
	MICHAEL BRIGHT-ASANT	EDR Digital Archive
	MARQUISHA MCBEAN	EDR Digital Archive
	PATRICK HILL	EDR Digital Archive
2017	MICHAEL ASANTE	Cole Information
	PATRICK HILL	Cole Information
2014	MICHAEL ASANTE	Cole Information

FINDINGS

Year	Uses	Source
2014	ANGELA JARVIS	Cole Information
2010	SHAWN JARVIS	Cole Information
2005	WHEELS PLUS INC	Cole Information
	RICKA BLAKE	Cole Information
	SHAWN JARVIS	Cole Information
	ANGELA SORIANO	Cole Information
	Wheels Plus Inc 1 R	Hill-Donnelly Information Services

257 HOSMER AVE

Year	Uses	Source
2020	ECO HOME IMPROVEMENT LLC	EDR Digital Archive
	JASMIN CLARKE	EDR Digital Archive
	DAVID CLARKE	EDR Digital Archive
2017	BRIAN GRANADOS	Cole Information
	CLARKE JASMIN	Cole Information
	ANTHONY COLASANTI	Cole Information
	RODNEY ROJAS	Cole Information
	DAVID HOWARD	Cole Information
2014	JASMINE GRANADOS	Cole Information
	CLARKE JASMIN	Cole Information
2010	JASMINE GRANADOS	Cole Information
	DAVID HOWARD	Cole Information
2005	JASMIN HOWARD	Cole Information
	MICHELLE GOODE	Cole Information
	JASMIN CLARKE	Cole Information
	NADINE DECOSTA	Cole Information
	H Clarke Jasmin v&	Hill-Donnelly Information Services
2000	DAVID CLARKE	Cole Information

258 HOSMER AVE

Year	Uses	Source
2020	GARCIA ZAIDA	EDR Digital Archive
	WILLIAM ROMAN	EDR Digital Archive
	LUIS SANTIAGO	EDR Digital Archive

FINDINGS

Year	Uses	Source
2017	LUIS SANTIAGO	Cole Information
2014	GARCIA ZAIDA	Cole Information
	JASMIN GALLOWAY	Cole Information
	ZAIDA GARCIA	Cole Information
	LUIS SANTIAGO	Cole Information
2010	GARCIA ZAIDA	Cole Information
	ZAIDA GARCIA	Cole Information
	LUIS SANTIAGO	Cole Information
	OCCUPANT UNKNOWN	Cole Information
2005	GARCIA ZAIDA	Cole Information
	JASMIN GALLOWAY	Cole Information
	ZAIDA GARCIA	Cole Information
	LUIS SANTIAGO	Cole Information
	SOULEYMANE TRAORE	Cole Information
	OCCUPANT UNKNOWN	Cole Information
	H Garcia ZY A	Hill-Donnelly Information Services

259 HOSMER AVE

Year	Uses	Source
2020	MILADY LOPEZ	EDR Digital Archive
	RUBEN RAHMAN	EDR Digital Archive
	FERDOUSI RAHMAN	EDR Digital Archive
	IVAN RAHMAN	EDR Digital Archive
	ANWARUL AZIM	EDR Digital Archive
	MATIUR RAHMAN	EDR Digital Archive
2017	VICTOR DICKSON	Cole Information
	MILADY LOPEZ	Cole Information
	TAMARA VASQUEZ	Cole Information
2014	VICTOR DICKSON	Cole Information
	MILADY LOPEZ	Cole Information
	QAZI AHMED	Cole Information
2010	MILADY LOPEZ	Cole Information
	ANWARA BEGUM	Cole Information

FINDINGS

Year	Uses	Source
2010	SAMIRA AHMED	Cole Information
2005	MILADY LOPEZ	Cole Information
	ANWARA BEGUM	Cole Information
	ANWARUL AZIM	Cole Information
	RAHMAN MATIUR	Cole Information
	Azim Anw arul v	Hill-Donnelly Information Services
	Begum Anw ara v	Hill-Donnelly Information Services
	Lopez Milady v	Hill-Donnelly Information Services

260 HOSMER AVE

Year	Uses	Source
2020	RONALD MANNIELLO	EDR Digital Archive
	LISA CORREALE	EDR Digital Archive
	ANTHONY CORREALE	EDR Digital Archive
	CAROLINA MOREIRA	EDR Digital Archive
	TONI RAGUSA	EDR Digital Archive
2017	RONALD MANNIELLO	Cole Information
	JOSEPH RAGUSA	Cole Information
	ANTHONY CORREALE	Cole Information
	CAROLINA MOREIRA	Cole Information
2014	RAGUSA JOSEPH	Cole Information
	JOSEPH RAGUSA	Cole Information
	ANTHONY CORREALE	Cole Information
	CAROLINA MOREIRA	Cole Information
2010	JOSEPH RAGUSA	Cole Information
2005	JOSEPH RAGUSA	Cole Information
	Ragusa Joseph	Hill-Donnelly Information Services
	H Ragusa Joseph A	Hill-Donnelly Information Services

261 HOSMER AVE

Year	Uses	Source
2017	LOURDES DIAZ	Cole Information
2014	CARLOS VELEZ	Cole Information
	F MODESTO	Cole Information

FINDINGS

Year	Uses	Source
2014	MODESTO MERCADO	Cole Information
2010	CARLOS VELEZ	Cole Information
	MODESTO MERCADO	Cole Information
2005	MODESTO MERCADO	Cole Information
2000	GILBERT FLORES	Cole Information

262 HOSMER AVE

Year	Uses	Source
2020	JESSICA MALDONADO	EDR Digital Archive
	DARLENE HUERTAS	EDR Digital Archive
	DAYMOND NOBLE	EDR Digital Archive
	RAMON MALDONADO	EDR Digital Archive
	CARMEN HUERTAS	EDR Digital Archive
	JUAN DEJESUS	EDR Digital Archive
2017	DARLENE HUERTAS	Cole Information
	DAYMOND NOBLE	Cole Information
	RAYMON MALDONADO	Cole Information
	JUAN DEJESUS	Cole Information
2014	DARLENE HUERTAS	Cole Information
	DAYMOND NOBLE	Cole Information
	RAYMON MALDONADO	Cole Information
2010	ERIC COLEMAN	Cole Information
2005	DARLENE HUERTAS	Cole Information
	h Ma Tdonado Raymon v	Hill-Donnelly Information Services

263 HOSMER AVE

Year	Uses	Source
2020	YOLANDA MENDEZ	EDR Digital Archive
	MELISSA MENDEZ	EDR Digital Archive
2014	MARIANO GONZALEZ	Cole Information
2005	MARGOT GONZALEZ	Cole Information
	MYRNA MENDEZ	Cole Information
2000	MELISSA MENDEZ	Cole Information

FINDINGS

264 HOSMER AVE

Year	Uses	Source
2020	EDWIN HERNANDEZ	EDR Digital Archive
2017	BASSEY ASANG	Cole Information
	JONAH UBONG	Cole Information
	UBONG JONAH	Cole Information
	LETICIA SANCHEZ	Cole Information
2014	IVETTE SANTIAGO	Cole Information
	MARCOS SANCHEZ	Cole Information
	ROBERT SERRONO	Cole Information
	GEORGE SINGELAKIS	Cole Information
2010	MARROS SANCHEZ	Cole Information
2005	MARROS SANCHEZ	Cole Information
	H Sanchez Leticia A	Hill-Donnelly Information Services

265 HOSMER AVE

Year	Uses	Source
2020	DESIREE CHAVIER	EDR Digital Archive
	DENISE CHAVIER	EDR Digital Archive
	CONSTANCE HILL	EDR Digital Archive
	MARIA CHAVIER	EDR Digital Archive
2017	DENISE CHAVIER	Cole Information
2014	DENISE CHAVIER	Cole Information
2010	MARIA CHAVIER	Cole Information
2005	MARIA CHAVIER	Cole Information
	Chavier D A	Hill-Donnelly Information Services

266 HOSMER AVE

Year	Uses	Source
2020	ALBERTO MALDONADO	EDR Digital Archive
	CHAVEZ GILBERT	EDR Digital Archive
	ROSE CHAVEZ	EDR Digital Archive
	JADELING CHAVEZ	EDR Digital Archive
	CESAR TELLO	EDR Digital Archive
	MARLINE CHAVEZ	EDR Digital Archive

Year	Uses	Source
2017	CHRISTIAN VALERO	Cole Information
	GILBERT CHAVEZ	Cole Information
	FATEMA ZOHORA	Cole Information
2014	ELBA GARNIER	Cole Information
	ELBA MARRERO	Cole Information
	GILBERT CHAVEZ	Cole Information
	CHAVEZ GILBERT	Cole Information
	GILBERTO CHAVEZ	Cole Information
	JACQUELINE DUGGINS	Cole Information
	YESENIA RIVERA	Cole Information
	FATEMA ZOHORA	Cole Information
2010	GILBERT CHAVEZ	Cole Information
	CHAVEZ GILBERT	Cole Information
	JACQUELINE DUGGINS	Cole Information
	FATEMA ZOHORA	Cole Information
	YESENIA RIVERA	Cole Information
2005	GILBERT CHAVEZ	Cole Information
	CHAVEZ GILBERT	Cole Information
	YESENIA RIVERA	Cole Information
	Rivera Yesenia YO	Hill-Donnelly Information Services

267 HOSMER AVE

Year	Uses	Source
2020	PALOMA FIGUEROA	EDR Digital Archive
	BIANCA FIGUEROA	EDR Digital Archive
	REYNALDO CHEVER	EDR Digital Archive
	REY CHEVERE	EDR Digital Archive
	CARLOTA CHEVERE	EDR Digital Archive
2017	JAIDEN MOORE	Cole Information
2014	CHEVERE REYNALDO	Cole Information
	REYNALDO CHEVERE	Cole Information
2010	BIANCA FIGUEROA	Cole Information
	REYNALDO CHEVERE	Cole Information

FINDINGS

Year	Uses	Source
2005	ROBERT SAVAGE	Cole Information
	LEANDRO VELEZ	Cole Information
	DIANA DIAZ	Cole Information
	REYNALDO CHEVERE	Cole Information
	NCL	Hill-Donnelly Information Services
2000	NELLIE MOLINARES	Cole Information

268 HOSMER AVE

Year	Uses	Source
2020	KHAN WILLIAMS	EDR Digital Archive
	DAVID AFRAM	EDR Digital Archive
	DOROTHY ABBAN	EDR Digital Archive
	GODFRED AFRAM	EDR Digital Archive
	ALTHEA YOUNG	EDR Digital Archive
	JOSE JARAMILLO	EDR Digital Archive
2017	PHILLIE DIAZ	Cole Information
	LINDA MOLINA	Cole Information
	ALTHEA YOUNG	Cole Information
	CHEYENNE AFRAM	Cole Information
2014	ANGELES RODRIGUEZ	Cole Information
	DANNY MALDONATO	Cole Information
	PHILLIE DIAZ	Cole Information
	LINDA MOLINA	Cole Information
	DOROTHY ABBAN	Cole Information
	ALTHEA YOUNG	Cole Information
	C BENNETT	Cole Information
	FERNANDO ROMERO	Cole Information
2010	DANNY MALDONATO	Cole Information
	LINDA MOLINA	Cole Information
	JUAN LI	Cole Information
	GODFRED AFRAM	Cole Information
	INDIRA RODRIGUEZ	Cole Information
	FERNANDO ROMERO	Cole Information

FINDINGS

269 HOSMER AVE

Year	Uses	Source
2020	CARMEN TORRES	EDR Digital Archive
	DANIEL NIEVES	EDR Digital Archive
	JONATHAN NIEVES	EDR Digital Archive
2017	CARMEN TORRES	Cole Information
	NIEVES EUFEMIO	Cole Information
	JORGE FLORES	Cole Information
	JULIA SERRANO	Cole Information
2014	ROSA FLORES	Cole Information
	JUAN NUNEZ	Cole Information
	CARMEN TORRES	Cole Information
	JULIA SERRANO	Cole Information
2010	EUFEMIO NIEVES	Cole Information
	MELISSA BONTZOLAKES	Cole Information
	LIONEL HAMILTON	Cole Information
	ROBERT DELGADO	Cole Information
2005	YOLANDA MENDEZ	Cole Information
	EUFEMIO NIEVES	Cole Information
	MELISSA BONTZOLAKES	Cole Information
	ANTONIO ARROYO	Cole Information
	Bontzolakes Melissa v	Hill-Donnelly Information Services
	Nieves Eufemio Av	Hill-Donnelly Information Services
2000	EUFEMIO NIEVES	Cole Information
	JUAN CELAYA	Cole Information
	BEATRIZ CHAVEZ	Cole Information

270 HOSMER AVE

Year	Uses	Source
2020	IVELISSE ROMERO	EDR Digital Archive
	ILEINI ROMERO	EDR Digital Archive
	FERNANDO ROMERO	EDR Digital Archive
2017	FERNANDO ROMERO	Cole Information
	LUCAS HERNANDEZ	Cole Information

Year	Uses	Source
2014	MARIA COLON	Cole Information
	FERNANDO ROMERO	Cole Information
2010	CESAR NATANIEL	Cole Information
	FERNANDO ROMERO	Cole Information
2005	FERNANDO ROMERO	Cole Information

271 HOSMER AVE

Year	Uses	Source
2020	LOUISE PILLA	EDR Digital Archive
	JOHN PILLA	EDR Digital Archive
	GABRIELLE PILLA	EDR Digital Archive
2017	JOHN PILLA	Cole Information
2014	MICHAEL PILLA	Cole Information
2010	MICHAEL PILLA	Cole Information
2005	OCCUPANT UNKNOWN	Cole Information
	H Pilla Michael	Hill-Donnelly Information Services
2000	MICHAEL PILLA	Cole Information

277 HOSMER AVE

Year	Uses	Source
2020	THOMASINA DEROSE	EDR Digital Archive
	JOHN DEROSE	EDR Digital Archive
	DE JOHN	EDR Digital Archive
2017	RICHARD WOLNER	Cole Information
2014	JOHN DEROSE	Cole Information
2010	JOHN DEROSE	Cole Information
2005	JOHN DEROSE	Cole Information
	H Derose J PA as	Hill-Donnelly Information Services
1993	DEROSE John	New York Telephone
1992	DEROSE, JOHN	Cole Information

278 HOSMER AVE

Year	Uses	Source
2020	ADELSO RAMIREZ	EDR Digital Archive

Year	Uses	Source
2020	GLORIA QUINONES	EDR Digital Archive
	GLORIA ASENJO	EDR Digital Archive
2017	LIDIA FERRANDO	Cole Information
	GLORIA QUINONES	Cole Information
2014	LIDIA FERRANDO	Cole Information
2010	LIDIA FERRANDO	Cole Information
2005	FRANK COCCA	Cole Information
	H Cocca F G A	Hill-Donnelly Information Services

295 HOSMER AVE

Year	Uses	Source
2014	ANDRIETTE HOLMES	Cole Information
2010	ANDRIETTE HOLMES	Cole Information

HOSMER AVE # 2

248 HOSMER AVE # 2

Year	Uses	Source
2020	JING LIN	EDR Digital Archive
	ZHOU LIN	EDR Digital Archive

HOSMER AVE # A

256 HOSMER AVE # A

Year	Uses	Source
2020	GINA ASIEDU	EDR Digital Archive

257 HOSMER AVE # A

Year	Uses	Source
2020	SHARON ROHAN	EDR Digital Archive

258 HOSMER AVE # A

Year	Uses	Source
2020	JEANETTE SANTIAGO	EDR Digital Archive

259 HOSMER AVE # A

Year	Uses	Source
2020	ANWARA BEGUM	EDR Digital Archive
	ALEXANDER AGYARE	EDR Digital Archive
	TAMARA VASQUEZ	EDR Digital Archive

269 HOSMER AVE # A

Year	Uses	Source
2020	EUFEMIO NIEVES	EDR Digital Archive

HOSMER AVE # B

259 HOSMER AVE # B

Year	Uses	Source
2020	IVORY COLES	EDR Digital Archive
	MILADY DICKSON	EDR Digital Archive
	VICTOR DICKSON	EDR Digital Archive

261 HOSMER AVE # B

Year	Uses	Source
2020	JOHANNIE MERCADO	EDR Digital Archive
	EDDY MARCANO	EDR Digital Archive
	CATHERINE MERCADO	EDR Digital Archive
	MODESTO MERCADO	EDR Digital Archive
	ANNETTE MERCADO	EDR Digital Archive

HUTCHINSON RIVER PKWY

400 HUTCHINSON RIVER PKWY

Year	Uses	Source
2000	JOYLENE ROWE	Cole Information

420 HUTCHINSON RIVER PKWY

Year	Uses	Source
2014	GARY SCHOFFNER	Cole Information
	KOLU WILLETTE	Cole Information
2010	KOLU WILLETTE	Cole Information

FINDINGS

460 HUTCHINSON RIVER PKWY

Year	Uses	Source
2000	PAUL SCHATZ	Cole Information

500 HUTCHINSON RIVER PKWY

Year	Uses	Source
2014	LAWS CONSTRUCTION CORPORATION	Cole Information
2005	LAWS CONSTRUCTION CORP	Cole Information

553 HUTCHINSON RIVER PKWY

Year	Uses	Source
2017	AHERN PAINTING	Cole Information
2014	APPLIED PROJECTS COMPANY INCORPORATE	Cole Information

555 HUTCHINSON RIVER PKWY

Year	Uses	Source
2020	SHANIA NURSE	EDR Digital Archive
	KOVANE BOGAN	EDR Digital Archive
	ALEXIA MITCHELL	EDR Digital Archive
	JULIO RIVERA	EDR Digital Archive
	MARIA ZAPATA	EDR Digital Archive
	ANGELINA PARRA	EDR Digital Archive
	MONNETTE FRANKLIN	EDR Digital Archive
	KARINA AVILA	EDR Digital Archive
	MARQUIS MOSS	EDR Digital Archive
	RONALD FERNANDEZ	EDR Digital Archive
	KEYASHA SHABAZZ	EDR Digital Archive
	HEMRAJIE RAMHARRACK	EDR Digital Archive
	MONA RICHARDS	EDR Digital Archive
2017	BASIC HOUSING INC	Cole Information
	UNICAR UNICAR	Cole Information
	CAPRI WHITESTONE MOTEL	Cole Information
2014	CAPRI WHITESTONE HOTEL	Cole Information
	WHITESTONE BRONX MOTEL	Cole Information
2010	SAMMYS GOURMET	Cole Information

Year	Uses	Source
2010	CAPRI WHITESTONE MOTEL	Cole Information
2000	CAPRI WHITESTONE MOTEL	Cole Information
	B & S LUNCHEONETTE CORPORATION	Cole Information
	BRONX WHITESTONE MOTEL	Cole Information
	CAPRI WHITESTONE MOTEL	Cole Information

700 HUTCHINSON RIVER PKWY

Year	Uses	Source
2017	TRUMP FERRY POINT LLC	Cole Information
	TRUMP NATIONAL GOLF CLUB	Cole Information
2014	TRUMP FERRY POINT LLC	Cole Information

HUTCHINSON RIVER PKY

500 HUTCHINSON RIVER PKY

Year	Uses	Source
2020	TRUMP GOLF LINKS FERRY POINT	EDR Digital Archive
2005	Gannett Fleming Inc 1 P	Hill-Donnelly Information Services
	Law s Construction Corp	Hill-Donnelly Information Services

553 HUTCHINSON RIVER PKY

Year	Uses	Source
2020	AHERN PAINTING	EDR Digital Archive

555 HUTCHINSON RIVER PKY

Year	Uses	Source
2020	BASIC HOUSING INC	EDR Digital Archive
	ATM	EDR Digital Archive
2005	B & S Luncheonette Corp	Hill-Donnelly Information Services
	Greenman Pederson	Hill-Donnelly Information Services
	Greenman Pederson	Hill-Donnelly Information Services
2000	B & S LNCHNTT CORP	Cole Information
	CAPRI WHTSTN MTL	Cole Information
	KISKA DVLPRS INC	Cole Information
	WHTSTN BRONX MTL	Cole Information

FINDINGS

Year	Uses	Source
1995	B & S LUNCHEONETTE CORP	Cole Information
	WHITESTONE BRONX MOTEL	Cole Information
	CAPRI WHITESTONE MOTEL	Cole Information
1992	B & S LUNCHEONETTE CORP	Cole Information
	WHITESTONE BRONX MOTEL	Cole Information
	CAPRI WHITESTONE MOTEL	Cole Information

HUTCHNSNRIVER PKY

620 HUTCHNSNRIVER PKY

Year	Uses	Source
1965	YOUNG SAML H POST AMER LEGION 1530 HUTCHNSN RIV PKWY	New York Telephone Company

JAY PL

2471 JAY PL

Year	Uses	Source
1931	Gustanson Nils	Manhattan and Bronx Directory Publishing Company Residential Directory
	Rella Steph	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Quinn J Mrs r	New York Telephone

2478 JAY PL

Year	Uses	Source
1931	Hattrick John	Manhattan and Bronx Directory Publishing Company Residential Directory
	Hattrick Vincent	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Hattrick John r	New York Telephone

2483 JAY PL

Year	Uses	Source
1931	Johnson Emil	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Johnson Fred r	New York Telephone

FINDINGS

LACOMBE AVE

2303 LACOMBE AVE

Year	Uses	Source
1993	SCIACOVELLI PHYLLIS	New York Telephone

2311 LACOMBE AVE

Year	Uses	Source
1993	DALIMONTE CAMILLO	New York Telephone
1983	D ALIMONTE CAMILLO	New York Telephone
1976	D ALIMONTE CAMILLN	New York Telephone Company
1971	D ALIMONTE CAMILLO	New York Telephone
1965	HUTTON ELIZ H MRS	New York Telephone Company

2375 LACOMBE AVE

Year	Uses	Source
1983	RIVERA MARTE	New York Telephone

LACOMBE AVE

0 LACOMBE AVE

Year	Uses	Source
2005	Tract 36005:20 odd s	Hill-Donnelly Information Services
	Tract 36005:2 even s	Hill-Donnelly Information Services

2311 LACOMBE AVE

Year	Uses	Source
2020	MELANIE DALIMONTE	EDR Digital Archive
	JAMES CORDERO	EDR Digital Archive
	NICOLE DALIMONTE	EDR Digital Archive
	DORIS DALIMONTE	EDR Digital Archive
2017	MELANIE ALIMONTE	Cole Information
2014	DORIS DALIMONTE	Cole Information
2005	H Dalimonte Camillo AV	Hill-Donnelly Information Services
	Sako T v	Hill-Donnelly Information Services
2000	CAMILLO DALIMONTE	Cole Information
	CAMILLO DALIMONTE	Cole Information

FINDINGS

Year	Uses	Source
1993	DALIMONTE Camillo	New York Telephone
1992	D'ALIMONTE, CAMILLO	Cole Information

2325 LACOMBE AVE

Year	Uses	Source
2014	BETTY MCCOY	Cole Information

MILES AVE

2576 MILES AVE

Year	Uses	Source
2020	LISA ROMAN-VASILAKOS	EDR Digital Archive
	MINERVA RIVERA	EDR Digital Archive
	JOSE CANDELARIA	EDR Digital Archive
	EDWIN RODRIGUEZ	EDR Digital Archive
2017	LISA ROMANVASILKOS	Cole Information
	LINDA FRANCESCHINI	Cole Information
	EDWIN RODRIGUEZ	Cole Information
2014	LISA ROMAN-VASILAKOS	Cole Information
	JOSE CANDELARIA	Cole Information
2010	TOM MEYERS	Cole Information
	JOSE CANDELARIA	Cole Information
2005	ROSA MIRANDA	Cole Information
	JOAQUIN MELENDEZ	Cole Information
	OCCUPANT UNKNOWN	Cole Information
	JULISSA SUERO	Cole Information
	EDWIN RODRIGUES	Cole Information
	EDWIN RODRIGUEZ	Cole Information
	AMANDA MATHEWSON	Cole Information
	H Rodriguez EL A	Hill-Donnelly Information Services
	Tract 36005:110 odd s	Hill-Donnelly Information Services
	Tract 36005:132 even s	Hill-Donnelly Information Services

FINDINGS

2578 MILES AVE

Year	Uses	Source
2020	CHARLENE ESPONDA	EDR Digital Archive
	ERIC OCASIO	EDR Digital Archive
	TANIA RUIZ	EDR Digital Archive
	SAMANTHA COLON	EDR Digital Archive
2017	NOHELY SUAREZ	Cole Information
	TANIA RUIZ	Cole Information
2014	JOHN LEWIN	Cole Information
	EDWIN RODRIGUEZ	Cole Information
	CHRISTOPHER LANDESTOY	Cole Information
	LUCINDA ATILES	Cole Information
	TANIA RUIZ	Cole Information
2010	EDWIN RODRIGUEZ	Cole Information
	CHARLENE ESPONDA	Cole Information
	JULIO JOHN	Cole Information
	WENDY SANTOS	Cole Information
	LUCINDA GARCIA	Cole Information
	DANYELLE COLON	Cole Information
2005	G FERNANDEZ	Cole Information
	CHARLENE ESPONDA	Cole Information
	Esponda Chardene v	Hill-Donnelly Information Services
	Rodriguez Edw in v	Hill-Donnelly Information Services

2580 MILES AVE

Year	Uses	Source
2020	CARLLENI CESPEDES	EDR Digital Archive
	MARIA MORALES	EDR Digital Archive
	ALFREDO MARTINEZ	EDR Digital Archive
	JASON SCOTT	EDR Digital Archive
	AMINATA BAH	EDR Digital Archive
	AMPARO CESPEDES	EDR Digital Archive
2017	MARIA MORLAES	Cole Information
	AMARIS GARCIA	Cole Information

FINDINGS

Year	Uses	Source
2017	JASON SCOTT	Cole Information
2014	AMANDA BROWNTATE	Cole Information
	MARIA MORLAES	Cole Information
	AMARIS GARCIA	Cole Information
	DAVID LICON	Cole Information
	JASON SCOTT	Cole Information
2010	VICTORIA HERNANDEZ	Cole Information
	DESTINY ATILES	Cole Information
	AMARIS GARCIA	Cole Information
	ELAINE PETRIZZI	Cole Information
	JASON SCOTT	Cole Information
	KENIA RAMOS	Cole Information
	DAVID LICON	Cole Information
	BOVI DELLE	Cole Information
2005	JOANNE PICCININNI	Cole Information
	MADELINE GIACCHETTO	Cole Information
	ELAINE PETRIZZI	Cole Information
	KENIA RAMOS	Cole Information
	Glacchetto M v	Hill-Donnelly Information Services
	Ramos Kenia v	Hill-Donnelly Information Services

2582 MILES AVE

Year	Uses	Source
2020	JOHN LEWIN	EDR Digital Archive
	LETISHA COHEN	EDR Digital Archive
	PRESTON CHAPLIN	EDR Digital Archive
	PRESTASIA COHEN	EDR Digital Archive
	MAGDA PEREZ	EDR Digital Archive
	CASSANDRA COHEN	EDR Digital Archive
	AUTUMN RICHARDSON	EDR Digital Archive
	ANTHONY NAZARIO	EDR Digital Archive
2017	LETISHA COHEN	Cole Information
2014	JUDITH TAYLOR	Cole Information

FINDINGS

Year	Uses	Source
2014	SAMARA LEBRON	Cole Information
2010	JOHN LEWIN	Cole Information
2005	VICTOR FAUSTO	Cole Information
	MAURO PICCININNI	Cole Information
	CARRIE GREENE	Cole Information
	PICCININNI MAURO	Cole Information
	2584 NCL	Hill-Donnelly Information Services

2584 MILES AVE

Year	Uses	Source
2020	THOMAS ASANTE	EDR Digital Archive
	SONIA VELEZ	EDR Digital Archive
	NADINE PEDROSO	EDR Digital Archive
	GONZALO CORRIDORI	EDR Digital Archive
	ESTHER OBIRI	EDR Digital Archive
	JEROME PEDROSO	EDR Digital Archive
2017	THOMAS ASANTE	Cole Information
	DAVID FELLI	Cole Information
	JOYCE COLLIER	Cole Information
	TOMAS BATISTA	Cole Information
2014	JOYCE COLLIER	Cole Information
	CHRISTIN LOPEZ	Cole Information
2010	DAVID FELLI	Cole Information
	JOYCE COLLIER	Cole Information
	LEONARD PEDROSO	Cole Information
2005	JOYCE COLLIER	Cole Information
	DONALD DELLEBOVI	Cole Information

2585 MILES AVE

Year	Uses	Source
2010	MAGDA PEREZ	Cole Information
2005	MAGDA PEREZ	Cole Information

FINDINGS

2586 MILES AVE

Year	Uses	Source
2020	JULIEN STEWART	EDR Digital Archive
	KYLE EDWARD	EDR Digital Archive
	KASSIE MARAJAH	EDR Digital Archive
	RON EDWIN	EDR Digital Archive
	JULIET DESOUZA	EDR Digital Archive
	ASHELY VEGA	EDR Digital Archive
2017	JULIEN STEWART	Cole Information
	STEWART HENRY	Cole Information
	JULIET DESOUZA	Cole Information
	BEE STARR	Cole Information
2014	JULIEN STEWART	Cole Information
	STEWART HENRY	Cole Information
	JULIET DESOUZA	Cole Information
2010	JULIEN STEWART	Cole Information
2005	J JASMINE	Cole Information
	h Jasmine J	Hill-Donnelly Information Services

2588 MILES AVE

Year	Uses	Source
2020	JOSE QUINTERO	EDR Digital Archive
	SANTIAGO ZABALA	EDR Digital Archive
	XIOMARA ZABALA	EDR Digital Archive
	VICTOR PINALES	EDR Digital Archive
2017	JULIO SANTOS	Cole Information
	MAYORIS PRESBOT	Cole Information
2014	BILLY MORALES	Cole Information
	GENEVA ORTIZ	Cole Information
	LAYDA NEGRIN	Cole Information
	MAYORIS PRESBOT	Cole Information
2010	ROSA CUEVAS	Cole Information
	ZABALA SANTIAGO	Cole Information
	SANTIAGO ZABALA	Cole Information

FINDINGS

Year	Uses	Source
2005	LAYDA NEGRIN	Cole Information
	h Negnrin Layda v	Hill-Donnelly Information Services

2590 MILES AVE

Year	Uses	Source
2020	YOLANDA FONTANEZ	EDR Digital Archive
	CHANTEL RODRIGUEZ	EDR Digital Archive
	KHALIL SIKANDER	EDR Digital Archive
	ANGEL MUNIZ	EDR Digital Archive
2017	YOLANDA FONTANEZ	Cole Information
	CHANTEL RODRIGUEZ	Cole Information
	ABNER MUNIZ	Cole Information
	GEORGE LAMB	Cole Information
2014	YOLANDA FONTANEZ	Cole Information
	CHANTEL RODRIGUEZ	Cole Information
	GEORGE LAMB	Cole Information
2010	JUSTO MENDEZ	Cole Information
2005	ROBERT CANATORE	Cole Information
	JUSTO MENDEZ	Cole Information
	ROBERT CANTATORE	Cole Information
	H Cantatore R	Hill-Donnelly Information Services

2600 MILES AVE

Year	Uses	Source
2020	GREGORY PASSALACQUA	EDR Digital Archive
	JULIAN PASSALACQUA	EDR Digital Archive
	ALONIA WHITE	EDR Digital Archive
	SARAH PASBALAQUA	EDR Digital Archive
	NADINE PASSALACQUA	EDR Digital Archive
2017	GREGORY PASSALACQUA	Cole Information
	JULIAN PASSALACQUA	Cole Information
2014	GREGORY PASSALACQUA	Cole Information
	DAVID SALA	Cole Information
2010	FREDRICK RENODE	Cole Information

FINDINGS

Year	Uses	Source
2010	D SALA	Cole Information
2005	GREGORY PASSALACQUA	Cole Information
	JOSEPH ROCCHIO	Cole Information

2602 MILES AVE

Year	Uses	Source
2020	STANFORD JONES	EDR Digital Archive
	SHENIQUE JONES	EDR Digital Archive
	TERRELL SKINNER	EDR Digital Archive
	MICHAEL JONES	EDR Digital Archive
	ANIKA RICHARDSON	EDR Digital Archive
2017	MICHAEL JONES	Cole Information
2014	MIG INTERNATIONAL	Cole Information
	Z STANFORD	Cole Information
	MICHAEL JONES	Cole Information
2010	STANFORD JONES	Cole Information
	Z STANFORD	Cole Information
	ANIKA RICHARDSON	Cole Information
2005	STANFORD JONES	Cole Information
	Z STANFORD	Cole Information
	GEORGE LAMB	Cole Information
	h Lamb George AV	Hill-Donnelly Information Services

2604 MILES AVE

Year	Uses	Source
2020	GOLAM RAHMAN	EDR Digital Archive
	NAZIFA RAHMAN	EDR Digital Archive
	NIXA ROSADO	EDR Digital Archive
	G RAHMAN	EDR Digital Archive
	REYNALDO ROSADO	EDR Digital Archive
2017	GOLAM RAHMAN	Cole Information
	RAHMAN GOLAM	Cole Information
	ROBERT ROSADO	Cole Information
2014	GOLAM RAHMAN	Cole Information

FINDINGS

Year	Uses	Source
2014	RAHMAN GOLAM	Cole Information
2010	E BONILLA	Cole Information
	GOLAM RAHMAN	Cole Information
	RAHMAN GOLAM	Cole Information
2005	E BONILLA	Cole Information
	GOLAM RAHMAN	Cole Information
	RAHMAN GOLAM	Cole Information
	Bonilla E v	Hill-Donnelly Information Services
	Rahman Gulam AO	Hill-Donnelly Information Services

2606 MILES AVE

Year	Uses	Source
2020	AMANDA LLOYD	EDR Digital Archive
	AMERICO NARDIS	EDR Digital Archive
	CHASTIDY MATEO	EDR Digital Archive
	NICKOLA FRANCIS	EDR Digital Archive
	MARTIN CONTRERAS	EDR Digital Archive
	DEBBIE FRANCIS	EDR Digital Archive
2017	LOAY ALZADEN	Cole Information
	SEAN ALBINO	Cole Information
	AMERICO NARDIS	Cole Information
	FRED LANDO	Cole Information
	DEBBIE FRANCIS	Cole Information
2014	SEAN ALBINO	Cole Information
	AMERICO NARDIS	Cole Information
	DOLORES HAMES	Cole Information
	FRED LANDO	Cole Information
	DAWNETTE MCNEIL	Cole Information
	NICHOLAS BORSANI	Cole Information
2010	DOLORES HAMES	Cole Information
	DAWNETTE MCNEIL	Cole Information
2005	DAWNETTE MCNEIL	Cole Information
	Mcneil Daw nette	Hill-Donnelly Information Services

FINDINGS

2608 MILES AVE

Year	Uses	Source
2020	MERGING MARKETS REALTY CORP	EDR Digital Archive
	TAHEERAH MAHDI	EDR Digital Archive
	MICHELLE RODRIGUEZ	EDR Digital Archive
	S RODRIGUEZ	EDR Digital Archive
	SONIA RODRIGUEZ	EDR Digital Archive
	SANTIAGO VAZQUEZ	EDR Digital Archive
	SHEILA RODRIGUEZ	EDR Digital Archive
	CELSA VAZQUEZ	EDR Digital Archive
2017	TAHEERAH MAHDI	Cole Information
	SHIELA RODRIGUEZ	Cole Information
	ALFONSO RODRIGUEZ	Cole Information
2014	MICHELLE NOEMI	Cole Information
	ALFONSO RODRIGUEZ	Cole Information
2005	NATIONAL URBAN REALTORS ASCTN	Cole Information
	MERGING MARKETS REALTY CORP	Cole Information
	ALFONSO RODRIGUEZ	Cole Information
	Cruz A v	Hill-Donnelly Information Services

2610 MILES AVE

Year	Uses	Source
2020	DEBORAH CORDERO	EDR Digital Archive
	ALFONSO AMELIO	EDR Digital Archive
	ADDVOA AMANKWAAH	EDR Digital Archive
	JOSEPH CORDERO	EDR Digital Archive
	JESSE ODUARAN	EDR Digital Archive
2017	DEBORAH CORDERO	Cole Information
	ERICKA BELLO	Cole Information
2014	ARLENE OLIVARES	Cole Information
	ADAOBI EZE	Cole Information
	EDDIE OYOLA	Cole Information
2010	STEPHANIE PAEZ	Cole Information
	ALFONSO AMELIO	Cole Information

FINDINGS

Year	Uses	Source
2005	MAGNUM MEDIA GROUP INC	Cole Information
	MICHAEL ALLEN	Cole Information
	ALFONSO AMELIO	Cole Information
	JESSE ODUARAN	Cole Information
	Allen Michael v	Hill-Donnelly Information Services
	Oduaran Jesse v	Hill-Donnelly Information Services
1961	KRUPP JOHN G	New York Telephone

2612 MILES AVE

Year	Uses	Source
2020	SARA PIERCE	EDR Digital Archive
	NIESHA SOLLA	EDR Digital Archive
	HAROLD ROSENBAUM	EDR Digital Archive
	BRENDA PORTELA	EDR Digital Archive
	RALPH DIXON	EDR Digital Archive
	JOSHUA ROSENBAUM	EDR Digital Archive
2017	JOSEPH OBRIEN	Cole Information
	CRISEL CALPOTURA	Cole Information
	BRENDA PORTELA	Cole Information
2014	CATHERINE CALPOTURA	Cole Information
	JOSEPH OBRIEN	Cole Information
	MICHAEL PAGAN	Cole Information
2010	CRISEL CALPOTURA	Cole Information
	HAROLD ROSENBAUM	Cole Information
2005	KRISTI GOURDINE	Cole Information
	Gourdine Kristi v	Hill-Donnelly Information Services

2614 MILES AVE

Year	Uses	Source
2020	IRMA ORTIZ	EDR Digital Archive
	BRENDA ORTIZ	EDR Digital Archive
2017	IRMA ORTIZ	Cole Information
2014	CRUZ ORTIZ	Cole Information
2010	JOSE ORTIZ	Cole Information

Year	Uses	Source
2005	JOSE ORTIZ	Cole Information

SCHLEY AVE

2604 SCHLEY AVE

Year	Uses	Source
1993	WILKERSON CHILDRES B	New York Telephone

2616 SCHLEY AVE

Year	Uses	Source
1971	MALAVE MARIA	New York Telephone

SCHLY AVE

2604 SCHLY AVE

Year	Uses	Source
1993	WILKERSON Childres B	New York Telephone

YZNAGA PL

520 YZNAGA PL

Year	Uses	Source
1993	SHAW ELIZABETH	New York Telephone
1976	ROBINSON RUTH	New York Telephone Company
	ROBINSON RUTH	New York Telephone Company
1971	DEMARCO JOSEPH	New York Telephone
1965	BOEHM VALENTINE	New York Telephone Company

525 YZNAGA PL

Year	Uses	Source
1983	MURRAY I	New York Telephone

526 YZNAGA PL

Year	Uses	Source
1993	ARNTSEN JOHN R	New York Telephone
1983	ARNTSEN JOHN R	New York Telephone
1976	ARNTSEN JOHN R	New York Telephone Company

Year	Uses	Source
1971	ARNTSEN JOHN R	New York Telephone
1965	ARSTSEN JOHN R	New York Telephone Company

527 YZNAGA PL

Year	Uses	Source
1976	JONES JOHN W	New York Telephone Company
1971	PESCE NELLIE MRS	New York Telephone
1965	PESCE FRANK A	New York Telephone Company

534 YZNAGA PL

Year	Uses	Source
1983	FIORE A	New York Telephone
1976	FIORE A	New York Telephone Company
1971	FIORE A	New York Telephone
1965	FIORE A	New York Telephone Company

536 YZNAGA PL

Year	Uses	Source
1983	FIORE DOMINICK	New York Telephone
1976	FIORE DOMINICK	New York Telephone Company
1971	FIORE DAMINICK	New York Telephone
1965	FIORE DOMINICK	New York Telephone Company

641 YZNAGA PL

Year	Uses	Source
1983	REGINA JOHN	New York Telephone
1976	REGINA JOHN	New York Telephone Company
1971	REGINA JOHN	New York Telephone
1965	REGINA JOHN	New York Telephone Company

YZNAGA PL

520 YZNAGA PL

Year	Uses	Source
2020	CLIFFCO LI INC	EDR Digital Archive
	FERRY POINT INDUSTRIES	EDR Digital Archive

FINDINGS

Year	Uses	Source
2017	FERRY POINT INDUSTRIES	Cole Information
	CLIFFCO II INC	Cole Information
2014	FERRY POINT INDUSTRIES	Cole Information
	CLIFFCO II INCORPORATED	Cole Information
2010	CJB EQUIPMENT RENTAL CORP	Cole Information
	C F	Cole Information
1993	SHAW Elizabeth	New York Telephone
1992	SHAW, ELIZABETH	Cole Information
1940	Baxter Mary A	New York Telephone
	Mc Evily Gloria Mrs	New York Telephone

525 YZNAGA PL

Year	Uses	Source
2017	TIJUANA MURRAY	Cole Information
2014	TIJUANA MURRAY	Cole Information
2010	JEANNINE FERRANDI	Cole Information
2005	TERRY MURRAY	Cole Information
	H Murray I AA	Hill-Donnelly Information Services
2000	I MURRAY	Cole Information
	IDA MURRAY	Cole Information
1992	MURRAY, I	Cole Information
1940	Mulvihill Susan J	New York Telephone
1931	Mulvihill Chris H R	Manhattan and Bronx Directory Publishing Company Residential Directory

526 YZNAGA PL

Year	Uses	Source
2005	534 536 NCL	Hill-Donnelly Information Services
2000	JOHN R ARMTSEN	Cole Information
	JOHN ARNTSEN	Cole Information
1993	ARNTSEN John R	New York Telephone
1992	ARNTSEN, JOHN R	Cole Information
1931	Hoffman Raymond	Manhattan and Bronx Directory Publishing Company Residential Directory

FINDINGS

527 YZNAGA PL

Year	Uses	Source
2005	CLIFFORD FERRANDI	Cole Information
2000	C FERRANDI	Cole Information

530 YZNAGA PL

Year	Uses	Source
1940	Bader M	New York Telephone

534 YZNAGA PL

Year	Uses	Source
2005	NESTOR PINO	Cole Information
2000	A RORE	Cole Information
	ANGELO FIORE	Cole Information
1992	FIORE, A	Cole Information

536 YZNAGA PL

Year	Uses	Source
2005	FRANK SALAMONE	Cole Information
2000	CANNADY SORTS SVCS	Cole Information
	G B C REALTY CORP	Cole Information
	PHASE I ASSOC INC	Cole Information
	D FIORE	Cole Information
	DOMENICK FIORE	Cole Information
	DONNA FIORE	Cole Information
1992	FIORE, D	Cole Information
1940	Baxter Walter C	New York Telephone

570 YZNAGA PL

Year	Uses	Source
2000	EXPLO POWDER INC	Cole Information

641 YZNAGA PL

Year	Uses	Source
1992	REGINA, JOHN	Cole Information
1940	Meichner Wm	New York Telephone

Year	Uses	Source
1931	Meichner Wm	Manhattan and Bronx Directory Publishing Company Residential Directory

YZNAGA STREET PL

520 YZNAGA STREET PL

Year	Uses	Source
1961	BOEHM VALENTINE	New York Telephone

526 YZNAGA STREET PL

Year	Uses	Source
1961	SIMMONDS JOSEPHINE E MRS	New York Telephone

527 YZNAGA STREET PL

Year	Uses	Source
1961	PESCE FRANK A	New York Telephone

534 YZNAGA STREET PL

Year	Uses	Source
1961	FIORE A	New York Telephone

536 YZNAGA STREET PL

Year	Uses	Source
1961	FIORE DOMINICK	New York Telephone

641 YZNAGA STREET PL

Year	Uses	Source
1961	REGINA JOHN	New York Telephone

ZEREGA AVE

430 ZEREGA AVE

Year	Uses	Source
1976	NASSETTA JOS	New York Telephone Company
1971	NASSETTA JOS	New York Telephone
1965	NASSETTA JOS	New York Telephone Company

FINDINGS

432 ZEREGA AVE

Year	Uses	Source
1983	DEFIORE SAM	New York Telephone
1976	DEFIORE SAM	New York Telephone Company
1971	DEFIORE SAM	New York Telephone
	MASCIA MARY MRS	New York Telephone
	MURPHY JOS G	New York Telephone
1965	DEFIORE SAM	New York Telephone Company
	HARDEN HAZEL	New York Telephone Company
	MASCIAN TONY	New York Telephone Company

450 ZEREGA AVE

Year	Uses	Source
1976	COTT CORP	New York Telephone Company
	IDEAL DISTRIBTRS	New York Telephone Company
1971	COTT CORP	New York Telephone
	IDEAL DISTRIBTRS	New York Telephone
1965	COTT CORP	New York Telephone Company
	IDEAL DISTRIBTRS	New York Telephone Company

455 ZEREGA AVE

Year	Uses	Source
1983	HINES GEO	New York Telephone
1976	GERENA JOSE	New York Telephone Company
1971	GERENA JOSE	New York Telephone
	HINES GEO	New York Telephone
1965	HINES GEO	New York Telephone Company
	HOY CHAS A	New York Telephone Company

489 ZEREGA AVE

Year	Uses	Source
1965	REIMER HAROLD JR	New York Telephone Company

500 ZEREGA AVE

Year	Uses	Source
1971	DELBALSO CONST CORP	New York Telephone

FINDINGS

ZEREGA AVE

420 ZEREGA AVE

Year	Uses	Source
2017	HUDSON RSS SRVCS	Cole Information
2014	HUDSON RSS SRVCS	Cole Information
1993	MIGOYA CONSTR CORP	New York Telephone
1992	MIGOYA CONSTR CORP	Cole Information

426 ZEREGA AVE

Year	Uses	Source
2020	JO-LO BUS CO	EDR Digital Archive

427 ZEREGA AVE

Year	Uses	Source
2020	RAHEEM ROSS	EDR Digital Archive
	CIARRA BLASINI	EDR Digital Archive
	JEFFREY SCHWARTZ	EDR Digital Archive
2017	RAHEEM ROSS	Cole Information
	HERMAN GARMENT	Cole Information
	JOHNNY BLASINI	Cole Information
2014	OCCUPANT UNKNOWN	Cole Information
	MAILYN OCASIO-GOYTIA	Cole Information
	PRENTIS PRICHETT	Cole Information
	OLGA GOYTIA	Cole Information
	JOHNNY BLASINI	Cole Information
2010	OCCUPANT UNKNOWN	Cole Information
2005	OCCUPANT UNKNOWN	Cole Information
	HECTOR CAMARA	Cole Information
	ELLIOT LOCICERO	Cole Information
	EVARISTO HERNANDEZ	Cole Information
	JEFFREY SCHWARTZ	Cole Information

428 ZEREGA AVE

Year	Uses	Source
2005	LOGAN REALTY	Cole Information

FINDINGS

429 ZEREGA AVE

Year	Uses	Source
2020	CHASTITY HAMILTON	EDR Digital Archive
	JANI ELLIS	EDR Digital Archive
	MILTON SILVERA	EDR Digital Archive
	GEORGE LETT	EDR Digital Archive
	YVETTE ROSAS	EDR Digital Archive
	NICOLA HOUDHAN	EDR Digital Archive
2017	JORGE ELLIS	Cole Information
	YVETTE ROSAS	Cole Information
	CHASTITY CRUZ	Cole Information
	NICOLA HOUDHAN	Cole Information
	TAIF DAVIS	Cole Information
2014	MILTON SILVERA	Cole Information
	JORGE ELLIS	Cole Information
	YVETTE ROSAS	Cole Information
	TAIF DAVIS	Cole Information
	NICOLA HOUDHAN	Cole Information
2010	OCCUPANT UNKNOWN	Cole Information
	GEORGE LETT	Cole Information
	MILTON SILVERA	Cole Information
2005	OCCUPANT UNKNOWN	Cole Information
	RAYLYN OCASIO	Cole Information
	MILTON SILVERA	Cole Information
	TAIF DAVIS	Cole Information

430 ZEREGA AVE

Year	Uses	Source
2000	SONIA COGLITORE	Cole Information
1956	BUBEL WM	New York Telephone
1949	BRIDGE VIEW BOAT HAULAGE CO	New York Telephone
	WHITE CAPS BOATS CO	New York Telephone

FINDINGS

431 ZEREGA AVE

Year	Uses	Source
2020	CHARLES FALCOM	EDR Digital Archive
	JULIUS LEWIS	EDR Digital Archive
	ODETTE MCCARTNEY	EDR Digital Archive
	MILZA NIETO	EDR Digital Archive
	JAMES LOGAN	EDR Digital Archive
	CARLOS TORRENS	EDR Digital Archive
	MATTIE LIBURD	EDR Digital Archive
	DILIA TRAVIESO	EDR Digital Archive
2017	JULIUS LEWIS	Cole Information
	MATTIE LIBURD	Cole Information
	JONATAN MOTA	Cole Information
2014	L ODETTE	Cole Information
	BRITTANY MARTINEZ	Cole Information
	JOHNNY BLASINI	Cole Information
	MATTIE LIBURD	Cole Information
2010	L ODETTE	Cole Information
	JOHNNY BLASINI	Cole Information
	MATTIE LIBURD	Cole Information
2005	MILZA AULLA	Cole Information
1992	FRANQUI, LORRAINE C	Cole Information

432 ZEREGA AVE

Year	Uses	Source
2020	MANUEL DOMENECH	EDR Digital Archive
	BELKIS DOMENECH	EDR Digital Archive
	ADIRIAN BANNISTER	EDR Digital Archive
	RAFAEL MALDONADO	EDR Digital Archive
2017	ELSY VALESQUEZ	Cole Information
	BELKIS DOMENECH	Cole Information
2014	MANUEL DOMENECH	Cole Information
	ELSY VALESQUEZ	Cole Information
	D CORA	Cole Information

FINDINGS

Year	Uses	Source
2014	RAFAEL MALDONADO	Cole Information
2010	LOGAN BUS CO INC	Cole Information
	GRANDPAS & BOBBYS BUS CO	Cole Information
	GINA DIAZ	Cole Information
2005	CAROLE GALLINA	Cole Information
	PATRICIA LANGERT	Cole Information
	Gallina Carol A	Hill-Donnelly Information Services
2000	RAILROAD MAINTENANCE CORPORATION	Cole Information
	KLOSK MICHAEL J ATTORNEY	Cole Information
1995	RAILROAD MAINTENANCE CORP	Cole Information
	KLOSK, MICHAEL J, ATTY	Cole Information
	RAILROAD MAINTNCE CORP	Cole Information
	LAWRENCE CONTRACTORS LTD	Cole Information
1993	KLOSK MICHAEL J ATTY	New York Telephone
	LAWRENCE CONTRACTORS LTD	New York Telephone
	RAILROAD MAINTENANCE CORP	New York Telephone
	RAILROAD MAINTNCE CORP	New York Telephone
	TPK CONSTR	New York Telephone
	DE FIORE ROSE	New York Telephone
	DE FIORE Rose	New York Telephone
1992	RAILROAD MAINTENANCE CORP	Cole Information
	KLOSK, MICHAEL J, ATTY	Cole Information
	RAILROAD MAINTNCE CORP	Cole Information
	LAWRENCE CONTRACTORS LTD	Cole Information
	TPK CONSTR	Cole Information
	DE FIORE, ROSE	Cole Information
1983	LAWRENCE CONTRACTORS LTD	New York Telephone
	LAWRENCE CONTRACTORS LTD	New York Telephone
	RAILROAD MAINTENANCE CORP	New York Telephone
1976	LAWRENCE CONTRACTORS LTD	New York Telephone Company
	RAILR0D MAINTENANCE CORP	New York Telephone Company
1961	SEATON SIDNEY W	New York Telephone

FINDINGS

Year	Uses	Source
1956	AL S MARINE SALES & SVCE	New York Telephone
	BORNEMANN RITA MRS	New York Telephone

433 ZEREGA AVE

Year	Uses	Source
2020	NIJA LESLIE	EDR Digital Archive
	JESSIE SCOTT	EDR Digital Archive
	RUEBEN ORTIZ	EDR Digital Archive
	LINDA CASTANON	EDR Digital Archive
	PHILLIP GUBISH	EDR Digital Archive
	EYITEMI OGHOGHO	EDR Digital Archive
	TAHMID CHOUDHURY	EDR Digital Archive
	DEJON PILLMAN	EDR Digital Archive
	YESENIA SCALICE	EDR Digital Archive
	TEANETTE WEAVER	EDR Digital Archive
	CHANTAL CASTANON	EDR Digital Archive
	JESSICA LOPEZ	EDR Digital Archive
	LINDA MALDONADO	EDR Digital Archive
	FARHANA CHOUDHURY	EDR Digital Archive
	MICHAEL WEAVER	EDR Digital Archive
	YESENIA RODRIGUEZ	EDR Digital Archive
	STIRTON PATTERSON	EDR Digital Archive
2017	JESSIE SCOTT	Cole Information
	CARL CASTANON	Cole Information
	SEAN PATTERSON	Cole Information
	CLARIBEL REYNOSO	Cole Information
	EDDY MARTE	Cole Information
	JESSIE SCALICE	Cole Information
	FARHANA CHOUDHURY	Cole Information
2014	JOSEPHINE LANDESTOY	Cole Information
	RUEBEN ORTIZ	Cole Information
	CARL CASTANON	Cole Information
	CLARIBEL REYNOSO	Cole Information

FINDINGS

Year	Uses	Source
2014	ZAMAL AHMED	Cole Information
	ORLANDO RIVERA	Cole Information
	SOLANGE VELEZ	Cole Information
2010	CHANTAL CASTANON	Cole Information
	MOKBUL CHOUDHURY	Cole Information
	ANGELA VELEZ	Cole Information
2005	JOSEPHINE LANDESTOY	Cole Information
	IRBIA FONSECA	Cole Information
	GRACIALINA VELEZ	Cole Information
	JACK SCALICE	Cole Information

435 ZEREGA AVE

Year	Uses	Source
2020	JEFFREY SCHWARTZ	EDR Digital Archive
2017	ISABEL HERNANDEZ	Cole Information
	FREDY GUERRERO	Cole Information
2014	OCCUPANT UNKNOWN	Cole Information
	JENNIFER MATOS	Cole Information
	ISABEL HERNANDEZ	Cole Information
	FREDY GUERRERO	Cole Information
2010	OCCUPANT UNKNOWN	Cole Information
	AVROM GOLD	Cole Information
	ORIN HENDRICKS	Cole Information
	ISABEL HERNANDEZ	Cole Information
	EMMANUELA GIALLEGO	Cole Information
2005	MICHAEL LIBURD	Cole Information
	ORIN HENDRICKS	Cole Information
	ISABEL HERNANDEZ	Cole Information
	JEFFREY SCHWARTZ	Cole Information
	Liburd Mattle v	Hill-Donnelly Information Services
	Ortiz Carmen v	Hill-Donnelly Information Services

FINDINGS

437 ZEREGA AVE

Year	Uses	Source
2020	AMANDA SAXON	EDR Digital Archive
	JOHN DERAFFELE	EDR Digital Archive
	JENNIFER GUZMAN	EDR Digital Archive
	YOLANDA SASTRE	EDR Digital Archive
2017	ISRAEL GUZMAN	Cole Information
	WILFREDO TORRES	Cole Information
	DANIELLE KUVERUA	Cole Information
	CHAYENNE THOMPSON	Cole Information
2014	MARIBEL GONELL	Cole Information
	CRUZ MILLAN	Cole Information
2010	FRANCISCO MACIAS	Cole Information
	R BOWMAN	Cole Information
	NGURIMUJE UANINI	Cole Information
	AMANDA SAXON	Cole Information
	JOHN DERAFFELE	Cole Information
2005	R BOWMAN	Cole Information
	NGERIMO MIEZE	Cole Information
	Bow man R v V	Hill-Donnelly Information Services

439 ZEREGA AVE

Year	Uses	Source
2020	JOHN DERAFFELE	EDR Digital Archive
	AMBA FRALIN	EDR Digital Archive
	MELANIE MALERO	EDR Digital Archive
	CHERYL VANNOY	EDR Digital Archive
2017	ANDREW LEBRON	Cole Information
	JOHN DERAFFELE	Cole Information
	DORIS WHITE	Cole Information
	PETER CONSTANTINO	Cole Information
	CECILLE WALLACE	Cole Information
	ZUALMY DISLA	Cole Information
	NICOLE WHITE	Cole Information

FINDINGS

Year	Uses	Source
2014	ANDREW LEBRON	Cole Information
	JOHN DERAFFELE	Cole Information
	A BLOUNT	Cole Information
	AVROM GOLD	Cole Information
	JACK WHITE	Cole Information
	PETER CONSTANTINO	Cole Information
	TARA HOWARD	Cole Information
	CECILLE WALLACE	Cole Information
2010	LINDA CLINKSSCALES	Cole Information
	JACK WHITE	Cole Information
	PETER CONSTANTINO	Cole Information
2005	LINDA CLINKSSCALES	Cole Information
	JACK WHITE	Cole Information
	Blount Eveyin v	Hill-Donnelly Information Services
	Cllnkscales Linda Av	Hill-Donnelly Information Services
	White Jack A	Hill-Donnelly Information Services

450 ZEREGA AVE

Year	Uses	Source
2020	ATM	EDR Digital Archive
	GVC LI	EDR Digital Archive
	GBC	EDR Digital Archive
	GVC LTD	EDR Digital Archive
	GVC	EDR Digital Archive
	MICHAEL LAVALLIE	EDR Digital Archive
	NIKITA LAVALLIE	EDR Digital Archive
	GERRI LAVALLIE	EDR Digital Archive
2017	GVC LTD	Cole Information
	G V C	Cole Information
	GVC II	Cole Information
2014	G V C	Cole Information
	GVC II	Cole Information
2010	GBC LTD	Cole Information

FINDINGS

Year	Uses	Source
2010	GVC II	Cole Information
2005	GBC	Hill-Donnelly Information Services
	GBC LTD	Hill-Donnelly Information Services
	Lavalle Micheal	Hill-Donnelly Information Services
	GVC	Cole Information
	Q T MINIBUS OF THE BRONX	Cole Information
2000	QT MINI BUS OF THE BRONX	Cole Information
	GVC	Cole Information
1995	CRYSTAL CHEMICAL CORP	Cole Information
1993	BASF CORP	New York Telephone
1992	BASF CORP	Cole Information
1983	LIMBACHR PAINT & COLOR WORKS INC	New York Telephone

455 ZEREGA AVE

Year	Uses	Source
2005	NCL	Hill-Donnelly Information Services
	Tract 36005:102 N/A	Hill-Donnelly Information Services
2000	JORGE CRUZ	Cole Information
1993	CRUZ WENDELL	New York Telephone
	CRUZ Wendell	New York Telephone
1992	CRUZ, WENDELL	Cole Information
1956	CONTE LOUIS	New York Telephone
	FRANCO CARMELO	New York Telephone

487 ZEREGA AVE

Year	Uses	Source
2010	HOUSES ZEREGA	Cole Information
2005	HOUSES ZEREGA	Cole Information

489 ZEREGA AVE

Year	Uses	Source
1956	CONVERTINO MICHL	New York Telephone
	PERROTTI PAT	New York Telephone
1940	Lynch J	New York Telephone

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492 ZEREGA AVE

Year	Uses	Source
1940	Reimer Harold	New York Telephone

493 ZEREGA AVE

Year	Uses	Source
1956	SACKS CELIA MRS GROCRY	New York Telephone

500 ZEREGA AVE

Year	Uses	Source
2005	VERIZON	Cole Information
1961	DEL BALSO CONST CORP	New York Telephone
	DELPHI CONST CO INC	New York Telephone
1956	DEL BALSO CONST CORP	New York Telephone
	DELPHI CONST CO INC	New York Telephone
1949	DEL BALSA CONST CORP	New York Telephone
1940	Del Balso Asphalt Corp	New York Telephone
	Del Balso Constr Corp	New York Telephone

501 ZEREGA AVE

Year	Uses	Source
2014	KEL MAR DESIGNS INCORPORATED	Cole Information
	KE MAR DESIGNS INCORPORATED	Cole Information

507 ZEREGA AVE

Year	Uses	Source
1956	FAUST JOS L	New York Telephone

530 ZEREGA AVE

Year	Uses	Source
2017	GVC I	Cole Information
	GVC	Cole Information
2014	GVC I	Cole Information
	GVC	Cole Information
2010	GVC	Cole Information
	GVC LTD	Cole Information

535 ZEREGA AVE

Year	Uses	Source
2020	NY ROAD RUNNERS CLUB	EDR Digital Archive

537 ZEREGA AVE

Year	Uses	Source
2010	JASON LAGUNA	Cole Information
2005	JASON LAGUNA	Cole Information

570 ZEREGA AVE

Year	Uses	Source
2017	EXPLO POWDER INC	Cole Information
2014	EXPLO POWDER INCORPORATED	Cole Information
2005	EXPLO POWDER INC	Cole Information
2000	EXPLO POWDER INCORPORATED	Cole Information
1995	EXPLO POWDER INC	Cole Information
1992	EXPLO INC	Cole Information
	VINOCON INC	Cole Information

493A ZEREGA AVE

Year	Uses	Source
1983	CO-OP SECURITY L	New York Telephone

ZEREGA AVE # 3

431 ZEREGA AVE # 3

Year	Uses	Source
2020	JOHNNY BLASINI	EDR Digital Archive

435 ZEREGA AVE # 3

Year	Uses	Source
2020	MICHAEL LIBURD	EDR Digital Archive

ZEREGA AVE # A

433 ZEREGA AVE # A

Year	Uses	Source
2020	MOKBUL CHOUDHURY	EDR Digital Archive

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435 ZEREGA AVE # A

Year	Uses	Source
2020	ISABEL HERNANDEZ	EDR Digital Archive

ZEREGA AVE # B

429 ZEREGA AVE # B

Year	Uses	Source
2020	KEICY RODRIGUEZ	EDR Digital Archive

ZEREGA AVE # C

429 ZEREGA AVE # C

Year	Uses	Source
2020	CHASTITY CRUZ	EDR Digital Archive

435 ZEREGA AVE # C

Year	Uses	Source
2020	JOHANNA INFANTE	EDR Digital Archive

437 ZEREGA AVE # C

Year	Uses	Source
2020	CHAYENNE THOMPSON	EDR Digital Archive
	TIFFANY THOMPSON	EDR Digital Archive

ZERESA AVE

500 ZERESA AVE

Year	Uses	Source
1965	DEL BALSO CONST CORP	New York Telephone Company

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
0 LACOMBE AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
1 Schley Ave	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
196 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
200 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
201 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
202 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
202 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
202 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
202 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
202 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
202 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
230 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
230 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
230 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
230 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
230 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
230 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2303 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
232 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2325 LACOMBE AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
236 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
236 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
236 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
236 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
236 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
236 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
236 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2375 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
238 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
239 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
240 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
240 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
240 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
240 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
240 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
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244 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
245 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
245 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
245 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
245 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
245 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
245 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
245 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
245 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
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246 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2471 JAY PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
2471 JAY PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931
2478 JAY PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931
2478 JAY PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
248 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
248 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
248 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
248 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
248 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
248 HOSMER AVE # 2	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2483 JAY PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
2483 JAY PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931
250 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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250 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
251 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
251 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
251 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
251 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
251 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
251 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
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252 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
253 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
253 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
253 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
253 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
253 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
253 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
254 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
254 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
254 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
254 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
254 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
255 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
255 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
255 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
255 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
255 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
256 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
256 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
256 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
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256 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
256 HOSMER AVE # A	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
257 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
257 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
257 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
257 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
257 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
257 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
257 HOSMER AVE # A	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2576 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2576 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2576 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2576 HARDING AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2576 HARDING AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2576 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2576 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2576 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2576 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2576 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2576 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2577 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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2577 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2577 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2577 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2577 HARDING AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2577 HARDING AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2578 HARDING AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2578 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2578 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2578 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2578 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2578 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2578 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2578 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2578 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2578 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2579 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2579 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2579 HARDING AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2579 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2579 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2579 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 HOSMER AVE # A	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
2580 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 HARDING AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2581 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2581 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2581 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2581 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2581 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2581 HARDING AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2582 HARDING AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2582 HARDING AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2582 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2582 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2582 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2582 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2582 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
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2582 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2582 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2582 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2582 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2583 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2583 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2583 HARDING AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2583 HARDING AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2583 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2583 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2583 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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2584 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2584 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2584 HARDING AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2584 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2584 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2584 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2584 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2584 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2584 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
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2585 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2585 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2585 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2585 HARDING AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2585 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2585 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2586 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2586 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2586 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2586 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2586 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2586 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2586 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2587 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2587 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2587 HARDING AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2587 HARDING AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2587 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2587 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2587 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
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2588 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2588 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2588 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2588 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2589 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2589 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2589 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2589 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2589 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
259 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
259 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
259 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
259 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
259 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
259 HOSMER AVE # A	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
259 HOSMER AVE # B	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2590 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2590 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2590 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2590 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2590 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
260 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
260 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
260 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
260 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
260 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2600 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2600 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2600 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2600 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2600 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2602 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2602 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2602 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2602 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2602 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2604 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2604 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2604 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2604 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2604 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2604 SCHLEY AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2604 SCHLY AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
2606 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2606 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2606 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2606 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2606 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2608 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2608 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2608 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2608 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
261 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
261 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
261 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
261 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
261 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
261 HOSMER AVE # B	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2610 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2610 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2610 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2610 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2610 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2610 MILES AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
2612 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
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2612 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2612 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2612 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2614 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2614 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2614 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2614 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2614 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2616 SCHLEY AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
262 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
262 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
262 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
262 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
262 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
263 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
263 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
263 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
263 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
265 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
265 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
265 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
265 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
265 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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266 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
266 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
266 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931
266 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
267 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
267 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
267 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
267 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
267 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
267 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
268 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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268 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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268 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
268 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
268 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
268 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
268 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
269 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
269 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
269 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
269 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
269 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
269 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
269 HOSMER AVE # A	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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270 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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270 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
271 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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271 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
271 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
271 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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272 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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272 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
272 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
272 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
272 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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272 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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274 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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276 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMAR AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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278 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
295 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
295 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
3 Schley Ave	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
400 HUTCHINSON RIVER PKWY	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
420 HUTCHINSON RIVER PKWY	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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420 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
420 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
426 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
427 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
427 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
427 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
427 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
427 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
428 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
429 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
429 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
429 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
429 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
429 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
429 ZEREGA AVE # B	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
429 ZEREGA AVE # C	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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430 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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430 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
431 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
431 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
431 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
431 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
431 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
431 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
431 ZEREGA AVE # 3	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
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432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
433 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
433 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
433 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
433 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
433 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
433 ZEREGA AVE # A	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE # 3	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE # A	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE # C	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
437 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
437 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
437 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
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437 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
437 ZEREGA AVE # C	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
439 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
439 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
439 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
439 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
439 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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450 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
455 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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455 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
455 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
455 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1949, 1940, 1931, 1927
455 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
455 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
455 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
455 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
460 HUTCHINSON RIVER PKWY	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
487 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
487 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
489 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
489 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1949, 1940, 1931, 1927
489 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
492 Hutchinson River Pkwy	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
492 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
493 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1949, 1940, 1931, 1927
493A ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 BRUSH AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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500 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 BRUSH AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 Hutchinson River Parkway	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 HUTCHINSON RIVER PKWY	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 HUTCHINSON RIVER PKWY	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 HUTCHINSON RIVER PKY	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 HUTCHINSON RIVER PKY	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1949, 1940, 1931, 1927
500 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
500 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1940, 1931, 1927
500 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
500 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 ZERESA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
501 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
501 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
504 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
504 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
504 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
507 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1949, 1940, 1931, 1927
509 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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509 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
509 BRUSH AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
509 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
509 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
509 BRUSH AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
509 BRUSH AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
509 BRUSH AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
510 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
510 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
510 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
510 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
515 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
515 BRUSH AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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515 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
517 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA STREET PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
525 Hutchinson River Pkwy	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
525 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
525 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
525 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
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525 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
525 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
526 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
526 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
526 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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526 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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526 YZNAGA STREET PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
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527 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
527 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
527 YZNAGA PL	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
527 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
527 YZNAGA STREET PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927

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529 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
529 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
529 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
529 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
529 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
529 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
529 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
529 BRUSH AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
530 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
530 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
530 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
530 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
530 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
531 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
531 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
531 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931
531 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
534 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
534 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
534 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
534 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
534 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
534 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
534 YZNAGA PL	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
534 YZNAGA STREET PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
535 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
535 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA STREET PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
537 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
537 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
545 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
545 BRUSH AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
545 Brush Ave	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
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550 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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550 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 Brush Ave	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE FRNT 1	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE FRNT 2	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
552 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
553 HUTCHINSON RIVER PKWY	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
553 HUTCHINSON RIVER PKWY	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
553 HUTCHINSON RIVER PKY	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKWY	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKWY	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKWY	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
555 Hutchinson River Pkwy	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKWY	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKWY	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKY	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKY	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKY	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKY	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKY	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
570 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
570 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
570 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
570 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
570 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
570 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
570 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
620 HUTCHNSNRIVER PKY	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
630 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931
641 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
641 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
641 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
641 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
641 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
641 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
641 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
641 YZNAGA STREET PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
650 BRUSH AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
650 BRUSH AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
650 Brush Ave	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
650 BRUSH AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
650 BRUSH AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
666 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
680 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
680 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
680 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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680 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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682 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
682 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
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682 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
682 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
682 BRUSH AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
682 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
682 BRUSH AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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699 BRUSH AVE	2020, 2017, 2014, 2010, 1995, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
700 HUTCHINSON RIVER PKWY	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
700 HUTCHINSON RIVER PKWY	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
450 Hutchinson River Parkway	2020, 2017, 2014, 2010, 2005, 1995, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

Proposed Ballys Casino - Ring Road

450 Hutchinson River Parkway

Bronx, NY 10465

Inquiry Number: 7720624.11

July 30, 2024

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

07/30/24

Site Name:

Proposed Ballys Casino - Ring
450 Hutchinson River Parkway
Bronx, NY 10465
EDR Inquiry # 7720624.11

Client Name:

Langan Engineering, Inc.
360 W. 31st Street
New York, NY 10001
Contact: Kaitlyn Gioia

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Search Results:

Year	*Scale*	*Details*	*Source*
2019	1"=500'	Flight Year: 2019	USDA/NAIP
2015	1"=500'	Flight Year: 2015	USDA/NAIP
2011	1"=500'	Flight Year: 2011	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1994	1"=500'	Acquisition Date: April 08, 1994	USGS/DOQQ
1985	1"=500'	Flight Date: March 16, 1985	USDA
1980	1"=500'	Flight Date: July 25, 1980	NOAA
1974	1"=500'	Flight Date: September 15, 1974	NOAA
1966	1"=500'	Flight Date: February 23, 1966	USGS
1962	1"=500'	Flight Date: January 16, 1962	EDR Proprietary Aerial Viewpoint
1954	1"=500'	Flight Date: January 08, 1954	USGS
1951	1"=500'	Flight Date: April 20, 1951	EDR Proprietary Aerial Viewpoint
1924	1"=500'	Flight Date: July 01, 1924	FAIR

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INQUIRY #: 7720624.11

YEAR: 2019

= 500'

N

EDR

INQUIRY #: 7720624.11
YEAR: 2015
= 500'
N
EDR

INQUIRY #: 7720624.11
YEAR: 2011
= 500'
N
EDR

INQUIRY #: 7720624.11
YEAR: 2006
= 500'
N
EDR

INQUIRY #: 7720624.11

YEAR: 1994

= 500'

N

EDR

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YEAR: 1985
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EDR

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YEAR: 1980
= 500'
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EDR

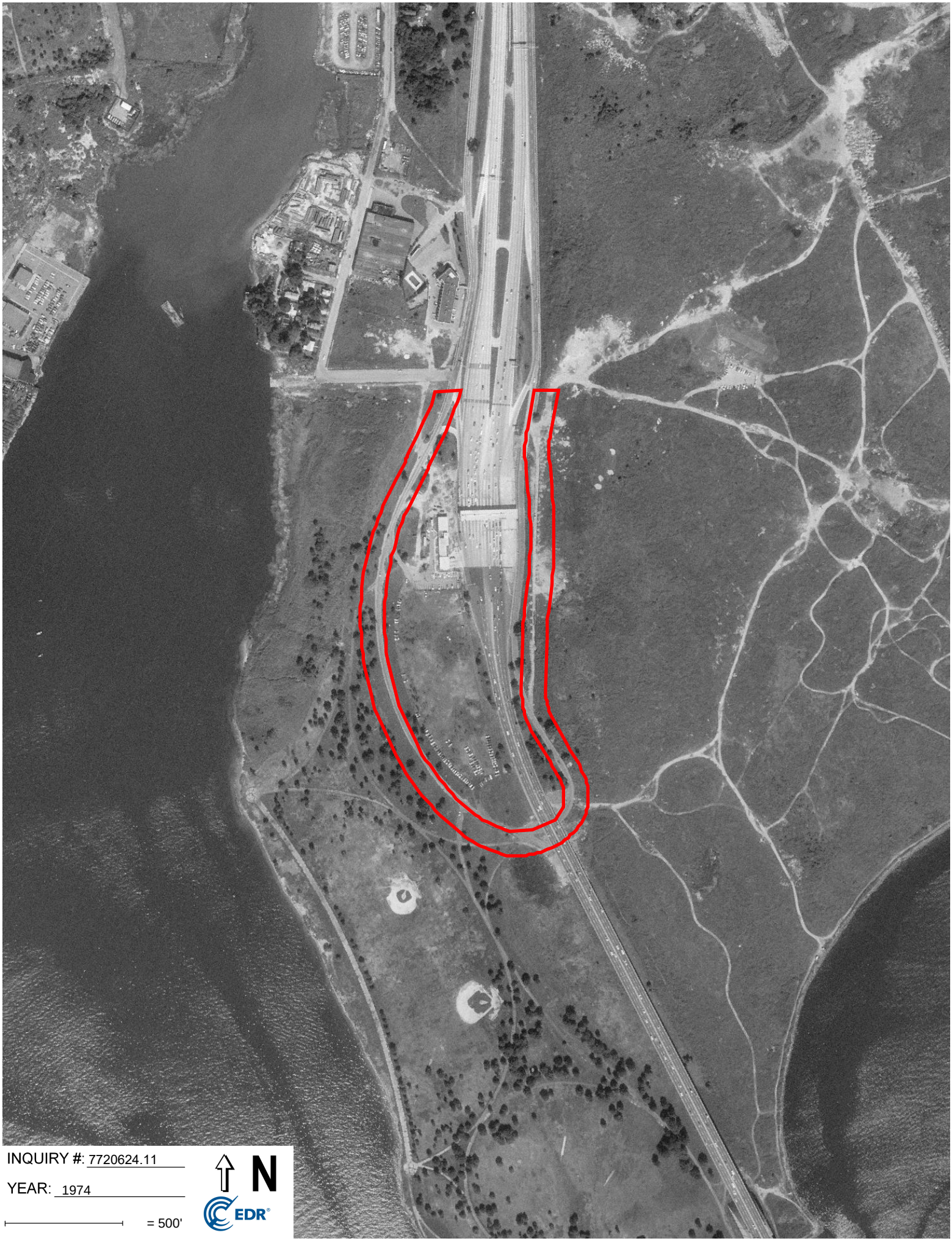

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YEAR: 1974

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EDR

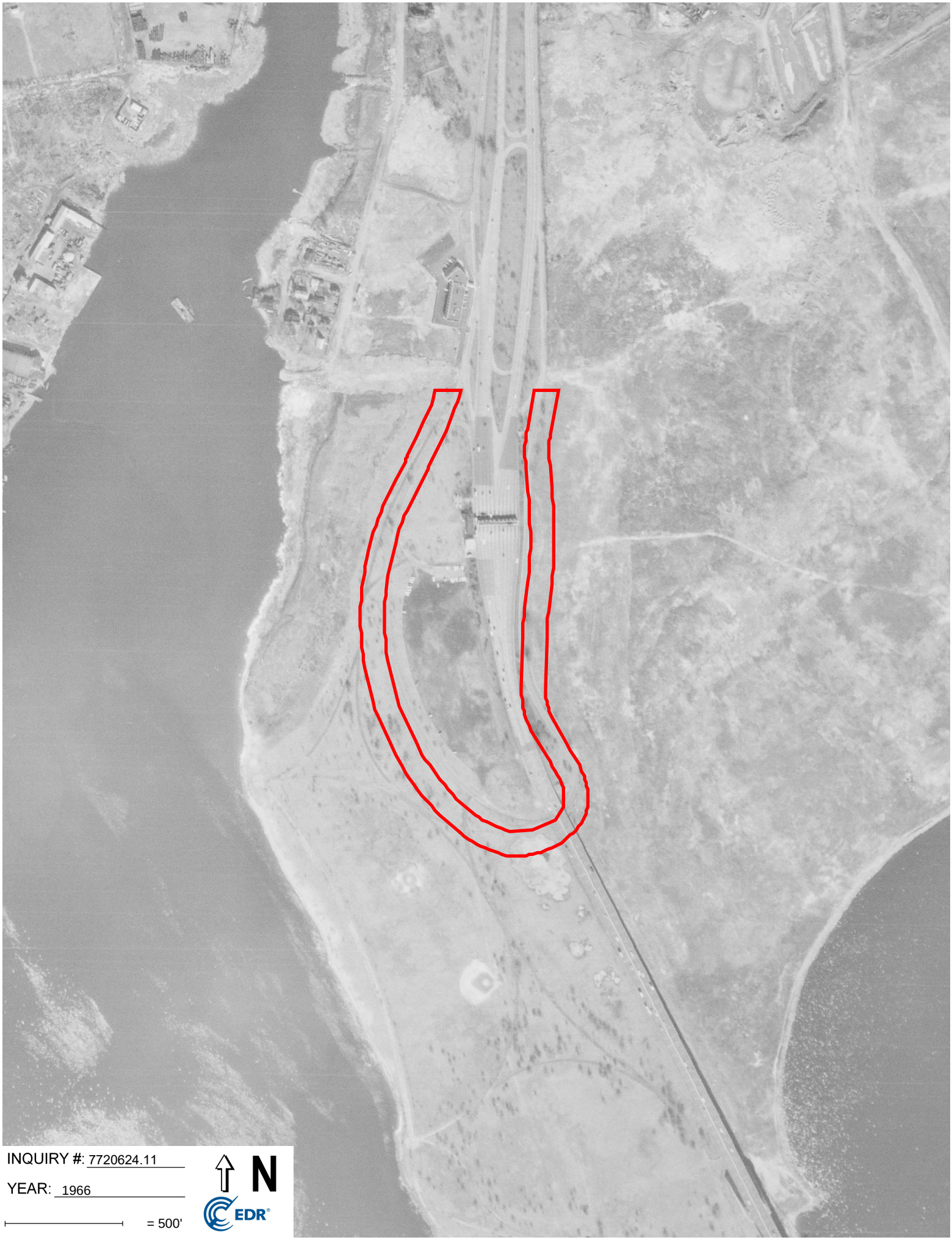
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YEAR: 1966
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EDR

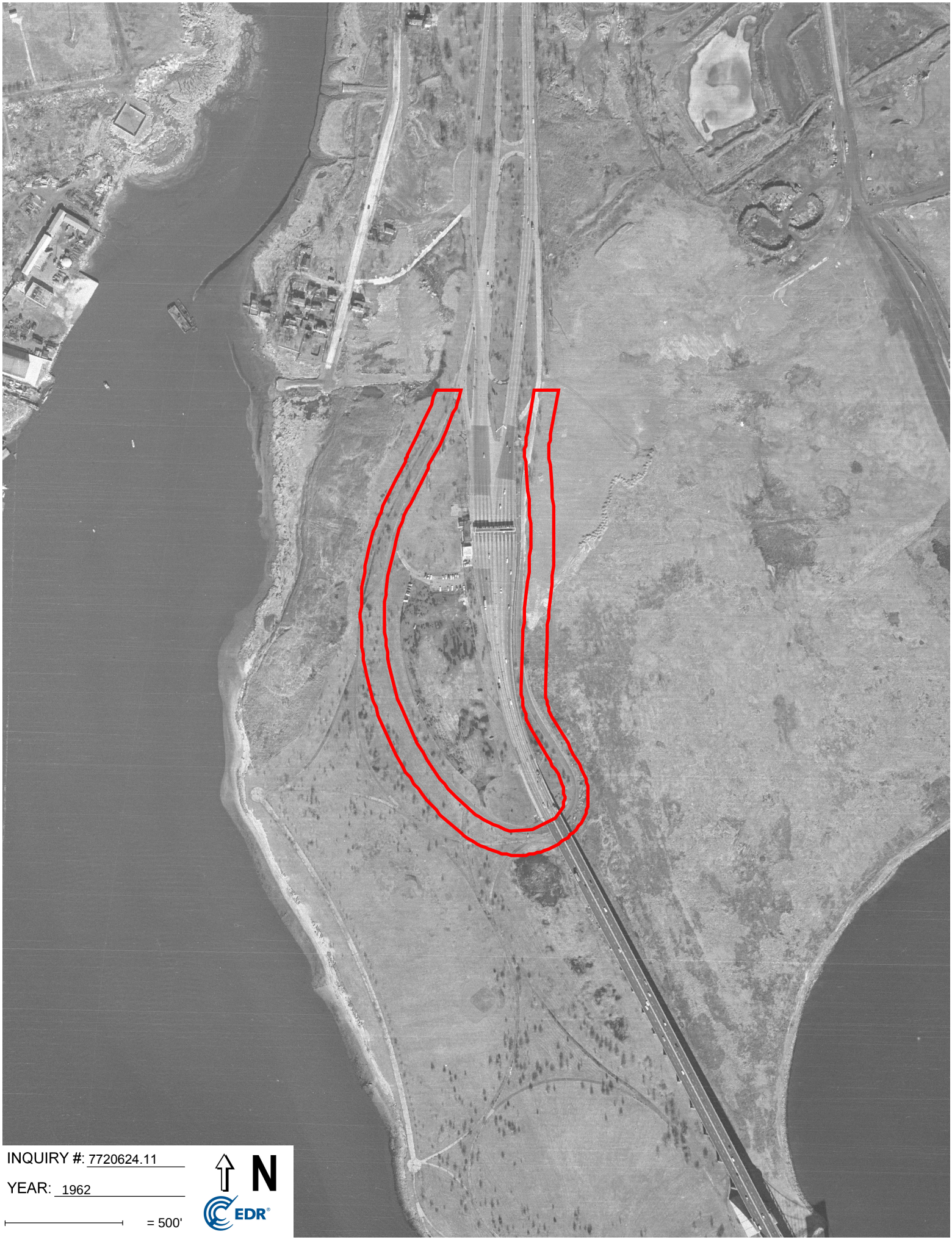

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YEAR: 1962

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EDR

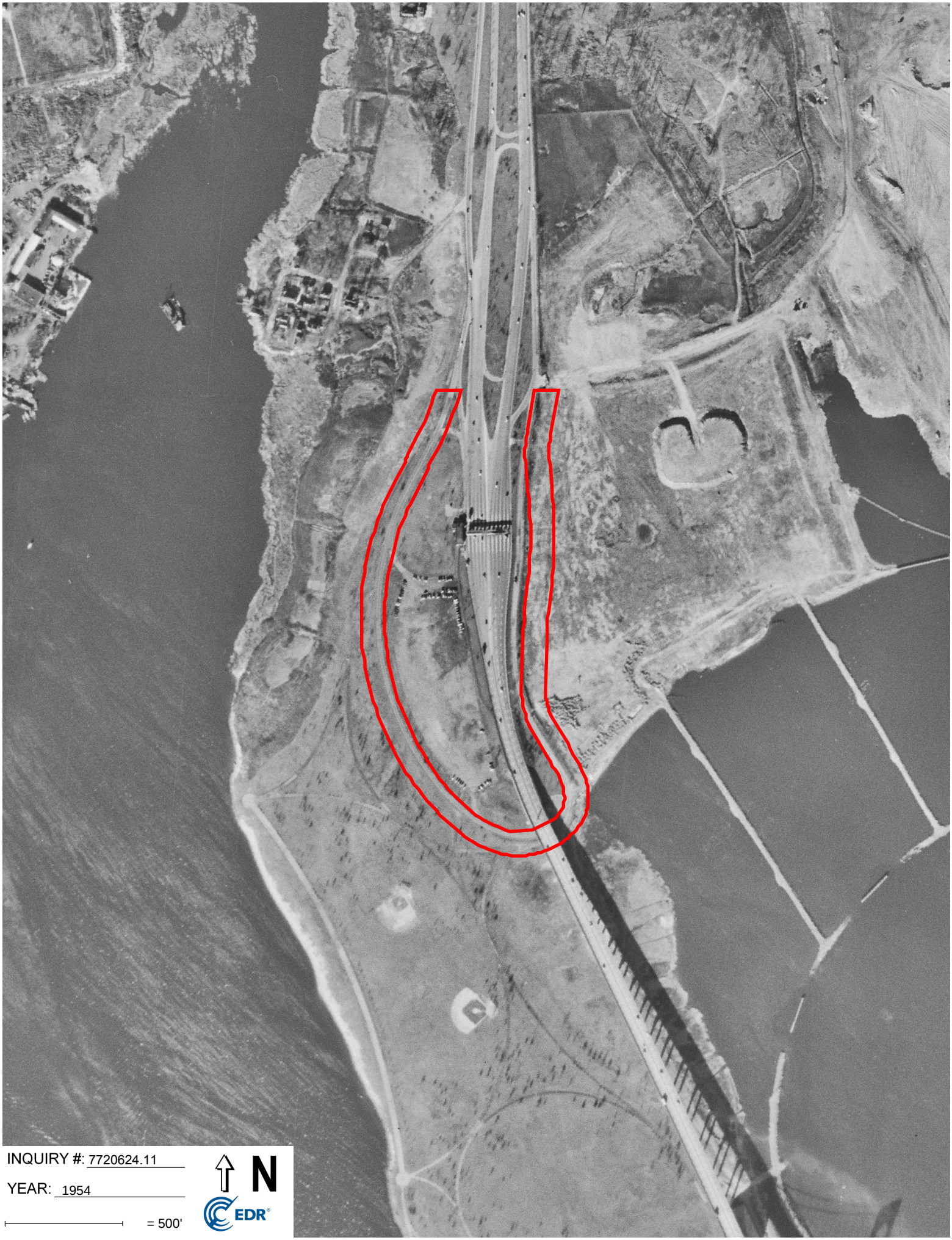
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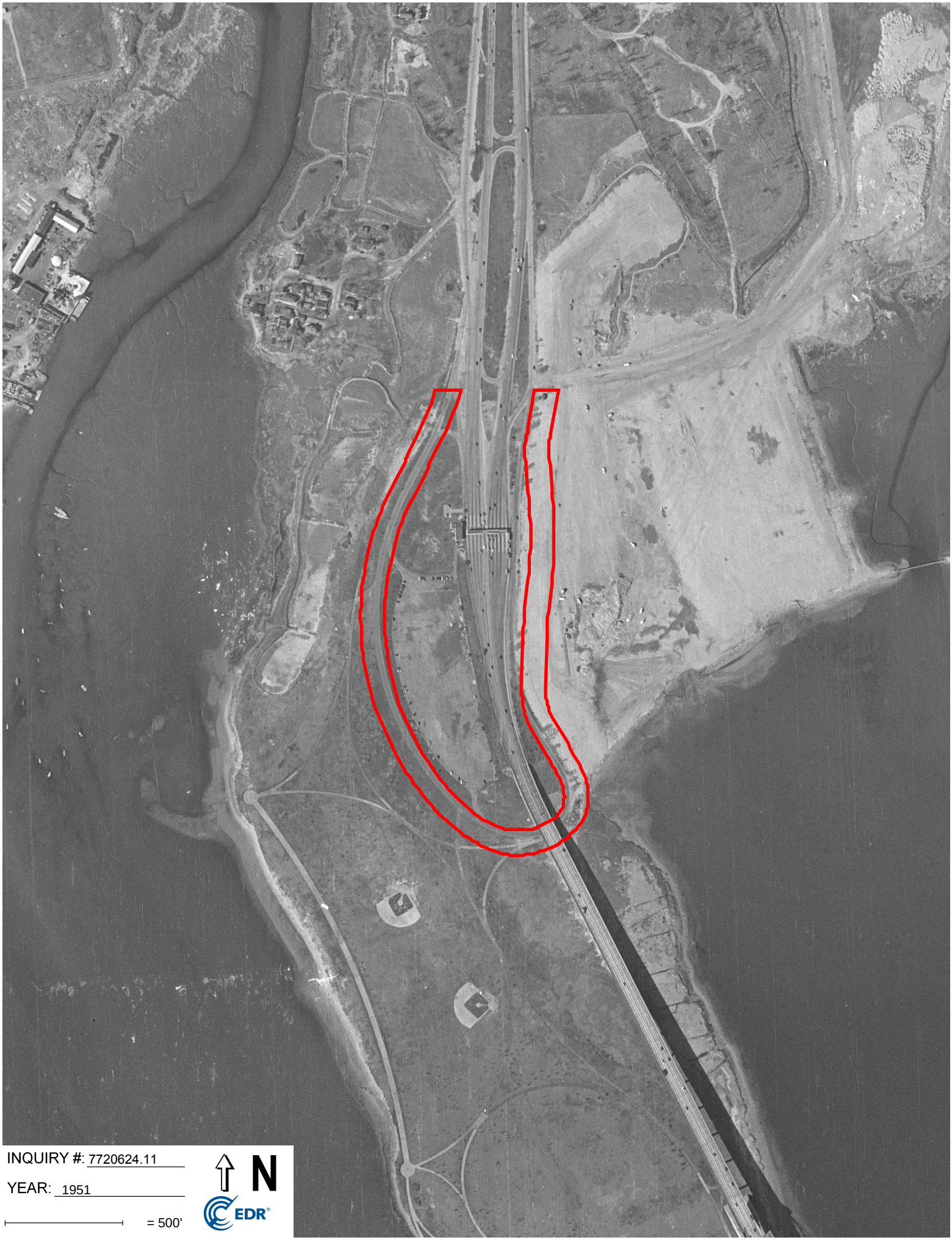
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YEAR: 1951
= 500'
N
EDR

INQUIRY #: 7720624.11

YEAR: 1924

= 500'

N

EDR

Appendix G Resumes of Environmental Professionals

BRIAN GOCHENAUR, QEP

ASSOCIATE PRINCIPAL

ENVIRONMENTAL SCIENTIST

Mr. Gochenaur is an environmental project manager with 20 years of experience in environmental due diligence, site investigation and remediation, fuel oil storage tank investigation and removal, soil vapor intrusion assessments, in-situ remedial technology, spill closure, vapor barrier and sub-slab depressurization system design and construction, emergency response, environmental and geotechnical site investigations, and health and safety monitoring. He has extensive experience with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup, Voluntary Cleanup and Spill Programs and New York City Department of Environmental Protection (NYCDEP) "E" Designated and New York City Voluntary Cleanup Program (BCP) sites. His areas of expertise include Phase I Environmental Site Assessments, Phase II Site Investigations, and environmental consulting and oversight on large scale construction projects.

SELECTED PROJECTS

- 440 Washington Street, E-Designated services, New York, NY
- 3514 Surf Avenue, Tall Residential and Retail Building, Brooklyn, NY
- ARO 242 West 53, Tall Residential Building, New York, NY
- NY Aquarium Shark Exhibit, Soil Characterization and Excavation Oversight, Coney Island Neighborhood, Brooklyn, NY
- 60 West Street, Site Investigation and Redevelopment, Brooklyn, NY
- 535 4th Avenue, BCP Auto Repair Cleanup and Redevelopment, Brooklyn, NY
- 1525 Bedford Avenue, BCP Gas Station Cleanup and Redevelopment, Brooklyn, NY
- 220 Eleventh Avenue, Residential Building, New York, NY
- 432 Rodney Street, Residential Building, Brooklyn, NY
- 563 Sackett Street, Brooklyn, NY
- 362 West 125th Street, Residential Building, New York, NY
- Bedford Armory Redevelopment, Brooklyn, NY
- 268 West Street, BCP Redevelopment of Former Commercial and Industrial Site, New York, NY
- 110 125th Street, Soil Excavation and Remediation, New York, NY
- Former Roseland Ballroom Redevelopment, Soil Characterization and Excavation Oversight, New York, NY
- 42 Crosby Street, "E" Designated Site Investigation and Remediation, New York, NY
- New York School Construction Authority, Various Locations, In-House Environmental Consulting, Five Boroughs of New York City
- EZ Serve Portfolio, GE Capital, Various Phase II Site Investigations, FL, GA, LA, and MS
- Beth Elohim Child Daycare Center, Lead Based Paint Abatement, Brooklyn, NY
- Price Battery, Environmental Protection Agency (EPA) Lead Fallout Superfund Site, Hamburg, PA

EDUCATION

B.S., Environmental Science
University of Florida

PROFESSIONAL REGISTRATION

Qualified Environmental Professional (QEP) certified by the Institute of Professional Environmental Practice

40-Hour OSHA (HAZWOPER)

- Clark Portfolio, GE Capital, Various Phase II Locations, MI, IL, ID, and OH
- Tops Plaza Portfolio, Prudential Real Estate Investors, Various Phase II Locations, NY
- Cingular Wireless Portfolio, Cingular Wireless, Various Locations Phase I and II Locations, WA
- Queens Center Mall Expansion, Remedial Oversight, Elmhurst, NY
- Soka Gakkai International-USA, Cultural Center, Brooklyn, NY
- 1752 Shore Parkway, Environmental Remediation, Brooklyn, NY
- Bedford Union Armory, NYS Brownfield Cleanup Program, Brooklyn, NY
- NYCEDC Manhattan Greenway – Harlem River, New York, NY
- 445 Gerard Avenue, Residential Building, Bronx, NY
- Towne Gardens North, Residential Building, Buffalo, NY

LAMEES ESMAIL, EIT

PROJECT ENGINEER

ENVIRONMENTAL ENGINEERING

Ms. Esmail is a civil and environmental engineer with four years of experience supporting environmental oversight and remediation projects in New York City. She has performed environmental field work including preparing daily inspection reports, photo documentation of work, and reviewing contractor submittals. She currently performs site research, manages field oversight, reviews/approves contractor submittals, prepares reports, and is involved with remedial design, implementation and project management.

Prior to joining Langan, Ms. Esmail gained three years of experience supporting environmental permitting and erosion and sedimentation control primarily for linear overhead transmission line projects. Types of permits included state land disturbance approvals and Army Corps of Engineers Section 10 Pre-Construction Notifications. Ms. Esmail also has experience aiding with the siting of new substation properties, using ArcGIS and AutoCAD to compile data for potential sites.

EDUCATION

B.S., Civil Engineering (Environmental Concentration)
George Washington University

PROFESSIONAL REGISTRATION

Engineer in Training (EIT) in NC

SELECTED PROJECTS

- Con Edison Partial Replacement of 345KV Feeders M51 & M52 Feasibility Study, New York, NY
- 220 Eleventh Avenue, Hudson Arts Building, New York, NY
- 50 Hudson Yards, Supertall Office Building, New York, NY
- 215 North 10th Street, Brooklyn, NY
- 320 West 135th Street, New York, NY
- 163 Varick Street, New York, NY
- 39 West 23rd Street, New York, NY
- 1 Huron Street, Brooklyn, NY
- Bedford Armory, Brooklyn, NY
- 1607 Surf Avenue, Brooklyn, NY
- 414 Gerard Avenue, Bronx, NY
- 445 Gerard Avenue, Bronx, NY
- 326-350 Rockaway Avenue, Brooklyn, NY
- 197-201 Canal Street, Staten Island, NY
- 475 Bay Street, Staten Island, NY
- Astoria Steel, Queens, NY
- 99 Hudson Boulevard, New York, NY
- 4650 Broadway, New York, NY
- 12-57 57th Street, Brooklyn, NY
- 805-825 Atlantic Avenue, Brooklyn, NY
- Various Phase I Environmental Site Assessments (ESAs) in NYC

SELECTED PUBLICATIONS, REPORTS, AND PRESENTATIONS

Esmail, L., “Transmission Line Erosion Control and Construction Specifications”, Duke Energy Progress Transmission Erosion and Sedimentation Control Seminar, Raleigh, NC, November 2016.

KAITLYN GIOIA

SENIOR STAFF SCIENTIST

ENVIRONMENTAL ENGINEERING

Ms. Gioia is an Environmental Scientist with the New York City team. Ms. Gioia graduated in 2016 from Adelphi University with a B.A. in Environmental Studies. Ms. Gioia's experiences include project management, leading field work, exposure to an assortment of environmental pollutants, remedial action procedures, & Phase I and Phase II Environmental Assessments. Ms. Gioia has performed Asbestos Hazard and Emergency Response Act (AHERA) inspections and evaluations in schools and State Pollutant Discharge Elimination System (SPDES) sampling for power plants and commercial facilities.

SELECTED PROJECTS

- 80-100 Flatbush Avenue, Brooklyn, NY
- 250 Water Street, New York, NY
- 35-01 & 35-09 Northern Boulevard, Long Island City, NY
- 23-15 44th Road, Long Island City, NY
- South Randalls Due Diligence, New York, NY
- 595-647 Smith Street, Brooklyn, NY
- Willets Point Redevelopment, Flushing, NY
- President Street Properties, Brooklyn, NY
- 475 Bay Street, Staten Island, NY
- Confidential Project, Queens, NY
- 137 Kings Highway, Brooklyn, NY
- 111 Willow Avenue, Bronx, NY
- 560 Degraw Street, Brooklyn, NY
- 122 Fifth Avenue, New York, NY
- Insurance Claim Oversight, White Plains, NY*
- Subrogation Potential Investigation, Lindenhurst, NY*
- Brookhaven National Lab, Brookhaven, NY*
- Far Rockaway Vault Sampling, Far Rockaway, NY*
- East Islip School District AHERA Inspection, East Islip, NY*
- UPRS SPDES Sampling, Uniondale, NY*
- 550 Stewart Avenue Phase I and II, Garden City, NY*
- Riverhead to Canal Cable Expansion, Riverhead, NY*
- Noise Dosimetry Study, Queens, NY*
- School District Lead in Water Sampling, Yonkers, Kings Park, and Baldwin, NY*
- Potable Water Sampling, New York, NY*
- DCF Remediation Oversight, Malverne, West Hempstead, and Port Washington, NY*
- AOP Pilot Testing, Garden City Park, Franklin Square, and Port Washington, NY*

EDUCATION

B.A., Environmental Studies
Adelphi University

PROFESSIONAL REGISTRATION

OSHA 40-Hour

OSHA10-Hour

NYS Department of Labor, Asbestos Inspector License

USEPA Lead Based Paint Inspector License

NYSDEC Class A/B Operator of Underground Storage Tank Systems

NYSDEC 4-Hour Erosion and Sediment Control Contractor Training 2021

**Projects represent experience with a previous firm*

SELECTED PUBLICATIONS, REPORTS, AND PRESENTATIONS

"Fecundity and Embryonic Development of Spiny Dogfish in the Northwest Atlantic Ocean" Transactions of the American Fisheries Society 2019.

Dutton J., Fisher NS., Gioia KA., Madigan DJ., "Tissue Distribution of Mercury in Female Spiny Dogfish (Squalus Acanthias)" Society of Environmental Toxicology and Chemistry South-Central Regional Meeting 2016, Fort Worth, TX.

Dutton J., Fisher NS., Gioia KA., Madigan DJ., "Maternal Transfer of Mercury in Spiny Dogfish" 12th International Congress on The Biology of Fish 2016, San Marcos, TX.

Dutton J., Fisher NS., Gioia KA., Madigan DJ., "Mercury Bioaccumulation and Maternal Transfer in Spiny Dogfish (Squalus Acanthias)" 33rd Annual Meeting of The American Elasmobranch Society/Joint Meeting of Ichthyologists and Herpetologists 2017, Austin, TX.

E-6

Bally's Bronx
Phase II ESI Work Plan for Ring Road
Prepared by: Langan Engineering

LANGAN

PHASE II ENVIRONMENTAL SITE INVESTIGATION WORK PLAN

for

PROPOSED BALLY'S CASINO - RING ROAD at FERRY POINT PARK Bronx, New York 10465

Prepared for:

Bally's Corporation
100 Westminster Street
Providence, Rhode Island 02903

Prepared by:

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
360 West 31st Street, 8th Floor
New York, New York 10001

LANGAN

October 4, 2024
170773001

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1. INTRODUCTION

This Phase II Environmental Site Investigation (ESI) Work Plan has been developed for a section of the Hutchinson River Parkway, referred to as Ring Road, located within Ferry Point Park, Bronx, New York (the "site"). The following work scope has been developed to evaluate the recognized environmental conditions (REC) identified during the Phase I Environmental Site Assessment (ESA) and to satisfy the New York City Department of Environmental Protection (NYCDEP) requirements for a Phase II ESI Work Plan outlined in the 2021 City Environmental Quality Review (CEQR) Technical Manual.

2. SITE LOCATION, CURRENT USE, AND PROPOSED DEVELOPMENT PLAN

The site is an approximately 9.85-acre, U-shaped section of Ferry Point Park, that primarily serves as a park thoroughfare and public recreation space and is identified on the New York City Bronx Borough Tax Map as part of Block 5622, Lot 1. The site is improved with an uninterrupted, circular roadway, referred to as Ring Road. Ring Road is a one-lane, one-way, asphalt-paved roadway and is bordered on either side by concrete curbing, metal guardrails, and grass shoulders. The remainder of the site includes vegetated areas and footpaths associated with Ferry Point Park. The section of Ring Road comprising the site totals about 1 mile.

The site is bound by Schley Avenue, the Hutchinson River Parkway, and service roads to the north; Bally's Golf Links at Ferry Point golf course to the east; Ferry Point Park and the Bronx-Whitestone Bridge to the south; and Ferry Point Park to the west. Between the western and eastern legs of the U-shape formed by the site lies public parking areas for Ferry Point Park and the Bronx-Whitestone Bridge Metropolitan Transit Authority (MTA) Building. A site location map is provided as Figure 1.

Improvements to the site, including widening of Ring Road are contemplated by Bally's Corporation LLC (Bally's) as part of the proposed development of a gaming facility. The site encompasses the total area of proposed roadway improvements, which includes park land extending between about 40 and 60 feet beyond the current extents of Ring Road. Excavation depths to facilitate widening of Ring Road are expected to extend from 1 to 5 feet below grade surface (bgs). Groundwater is tidally influenced and estimated between 2 and 20 feet bgs. Groundwater flow direction is generally to the west-southwest, towards Westchester Creek and the East River. The proposed conceptual development plans are included as Appendix A. NYCDEP will be informed of any proposed changes to the development plans.

3. PHASE I ENVIRONMENTAL SITE ASSESSMENT SUMMARY

The following recognized environmental conditions (RECs) were identified in the September 6, 2024, Phase I ESA prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology, D.P.C. (Langan):

REC 1 – Current and Historical use of Adjoining and Surrounding Properties

Historical adjoining and surrounding property use includes a municipal solid waste landfill (1950-1960s), a United Parcel Service (UPS) facility with petroleum and chemical bulk storage (1985 - present), and a MTA bridge support facility with petroleum bulk storage (1951 - present). Documented and undocumented spills or releases of petroleum products or hazardous substances associated with these properties may have adversely affected groundwater and/or soil vapor on the site.

REC 2 – Non-Native Fill

Non-native fill is expected to underly the site above native soil. Non-native fill in New York City may contain contaminants, particularly metals and semi-volatile organic compounds (SVOCs), at concentrations that exceed applicable state and/or federal standards. Non-native fill does not trigger a regulatory reporting requirement, but may require implementation of special soil handling, management, and off-site disposal procedures if disturbed during development of the site.

A copy of the Phase I ESA is included in Appendix B.

4. SUBSURFACE INVESTIGATION WORK SCOPE

4.1 Geophysical Survey

A geophysical survey will be performed to locate buried utilities and anomalies in the vicinity of the proposed sample locations.

4.2 Soil, Groundwater, and Soil Vapor Summary

An investigation of soil and groundwater will be performed to properly evaluate the site for potential environmental impacts from current and historic off-site uses. A proposed sampling location plan is included as Figure 2. The proposed sampling will further investigate the RECs and evaluate the presence and/or quality of non-native fill material, as well as provide general horizontal/vertical information across the site for development purposes. Sampling will be conducted in general accordance with the New York State Department of Environmental Conservation (NYSDEC) Technical Guidance for Site Investigation and Remediation DER-10 and the 2021 CEQR Technical Manual.

Forty-two soil borings (SB01 to SB42) will be installed across the site (one soil boring about every 100 linear feet). At a minimum, a total of 84 soil samples will be collected from the borings. Ten soil boring locations will be converted into temporary groundwater monitoring wells and ten groundwater samples will be collected. Conditions in the field may require adjustment of sampling locations. Each soil boring location will be accurately measured to fixed benchmarks (i.e., select property lines, adjacent structures, etc.).

There are currently no enclosed structures proposed for this development project; therefore, soil vapor sampling is not proposed for this investigation.

4.3 Soil Sampling

A licensed environmental driller will be retained to advance soil borings using a Geoprobe® drill rig. Field personnel will screen the soil samples during borehole advancement for organic vapors with a photo-ionization detector (PID) and evaluate visual and olfactory impacts prior to collecting environmental samples. All field work will be recorded in a field log. At a minimum, two soil samples will be collected from each soil boring (for a total of 84 soil samples) for laboratory analysis: a surface soil sample (from the 0-2 feet bgs interval), and a subsurface soil sample (from the two-foot interval beneath the proposed maximum excavation depth of 5 feet bgs). Discrete (grab) samples will be taken from the aforementioned sampling intervals. The subsurface soil samples may also serve as in-situ post-excavation soil samples for the remedial plan. A third soil sample may be collected if indications of impacts are identified (e.g., PID readings above background and/or visual and olfactory observations of a release).

4.4 Monitoring Well Installation and Groundwater Sampling

Ten one-inch diameter temporary groundwater monitoring wells will be installed. Ten representative groundwater samples will be collected using low-flow sampling techniques from each well with a peristaltic pump and dedicated tubing. Sampling will be conducted in accordance with NYSDEC Draft DER-10 Technical Guidance for site Investigation and Remediation, dated May 2010, and Sampling Guidelines and Protocols, dated March 1991. Groundwater wells will be gauged with a water level meter to record a depth to groundwater reading (1/100 foot), and if necessary, an interface meter to determine the thickness of light non-aqueous phase liquid (LNAPL) or dense non-aqueous phase liquid (DNAPL).

4.5 Soil Vapor Sampling

There are currently no enclosed structures proposed as part of site development; therefore, soil vapor sampling is not proposed for this investigation. Should the design be modified to include enclosed structures, soil vapor sampling will be conducted in the proposed building location in accordance with the New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH October 2006, and subsequent updates).

4.6 Sample Analysis

Soil and groundwater samples will be submitted to a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified laboratory for full analysis:

- Volatile organic compounds (VOCs) by EPA Method 8260;
- SVOCs by EPA Method 8270;

- Pesticides, herbicides, polychlorinated biphenyls (PCBs) by EPA Method 8081/8082; and
- Target Analyte List (TAL) metals by EPA Method 6010 and 7471.

All groundwater samples will be analyzed for both filtered (dissolved) and unfiltered (total) metals.

If either LNAPL and/or DNAPL are detected, appropriate samples will be collected for characterization and "fingerprint analysis" and any legally-required, regulatory reporting (i.e., NYSDEC spills hotline) will be completed.

Soil and groundwater samples collected from each well location will also be analyzed for NYSDEC-List Per- and polyfluoroalkyl Substances (PFAS) by EPA Method 1633. A proposed sample summary is provided as Table 1.

4.7 Quality Assurance/Quality Control Procedures

Quality assurance/quality control (QA/QC) procedures will be used to provide performance information with regard to accuracy, precision, sensitivity, representation, completeness, and comparability associated with the sampling and analysis for this investigation. Field QA/QC procedures will be used (1) to document that samples are representative of actual conditions at the site and (2) identify possible cross-contamination from field activities or sample transit. Laboratory QA/QC procedures and analyses will be used to demonstrate whether analytical results have been biased either by interfering compounds in the sample matrix, or by laboratory techniques that may have introduced systematic or random errors to the analytical process. QA/QC samples (field and trip blanks, duplicates, etc.) will be collected and analyzed at an ELAP certified laboratory.

4.8 Investigation Derived Waste

Soil cuttings may be disposed at the site within the borehole that generated them to within 6 inches of the surface unless:

- Free product or grossly contaminated soil are present in the cuttings
- The borehole has penetrated an aquitard, aquiclude or other confining layer; or extends significantly into bedrock
- Backfilling the borehole with cuttings will create a significant path for vertical movement of contaminants. Soil additives (bentonite) may be added to the cuttings to reduce permeability
- The soil cannot fit into the borehole.

Those soil cuttings needing to be managed on-site will be containerized in properly labeled New York State Department of Transportation (NYSDOT)-approved 55-gallon drums for future off-site disposal at a permitted facility. All boreholes which require drill cuttings disposal would ultimately

be filled with bentonite chips (hydrated) and asphalt/concrete capping. Disposable sampling equipment including, spoons, gloves, bags, paper towels, etc. that came in contact with environmental media will be double bagged and disposed as municipal trash as non-hazardous trash.

4.9 Reporting

A Phase II ESI Report will be prepared following completion of the field activities and receipt of the laboratory data. The report will provide detailed summaries of the investigative procedures and findings. Soil analytical results will be compared to the NYSDEC Part 375-6.8(a) Soil Cleanup Objectives and groundwater samples will be compared to the Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (SGVs). The report will include an updated sampling plan, spider diagrams, analytical data tables for all reported constituent compounds (including non-detectable concentrations) and remedial recommendations, as warranted.

4.10 Investigation Health and Safety Plan

An Occupational Safety and Health Administration (OSHA) compliant Health and Safety Plan that meets all OSHA Hazardous Waste Operations and Emergency Response (HAZWOPER) requirements will be implemented during the site work to protect worker safety. The Site Safety Coordinator will ensure full compliance of the Health and Safety Plan (HASP) in accordance with applicable health and safety laws and regulations. All field personnel involved in investigation activities will participate in training required under OSHA HAZWOPER 29 Code of Federal Regulations (CFR) 1910.120, including 40-hour hazardous waste operator training and annual 8-hour refresher training. Emergency telephone numbers will be posted at the site location before any work begins. A safety meeting will be conducted before each shift begins. Topics to be discussed include task hazards and protective measures (physical, chemical, environmental); emergency procedures; personal protection equipment (PPE) levels and other relevant safety topics including a highlighted route map to the nearest hospital/emergency room. Meetings will be documented in a logbook or specific form. Potential on-site chemicals of concern include VOCs, SVOCs, pesticides/PCBs, and metals. Information fact sheets and/or summary tables for each contaminant group are included in the HASP. A copy of this HASP is included as Appendix C and will be on-site during each sampling event.

Figures

Notes:
1. Flushing, NY USGS Quadrangle Map Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online Copyright: © 2013 National Geographic Society, i-cubed.
WARNING: It is a violation of the NYS Education Law Article 145 for any person, unless he is acting under the direction of a licensed professional engineer, to alter this item in any way.

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Project
PROPOSED BALLY'S CASINO - RING ROAD AT FERRY POINT PARK
BRONX NEW YORK

Figure Title
SITE LOCATION MAP

Project No.	Figure
170773001	1
Date: 9/6/2024	
Scale: 1" = 2,000 feet	
Drawn By: MG	

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Path: \\langan.com\data\NYC\data0\170773001\Project Data\ArcGIS\APRX\170773001\170773001.aprx

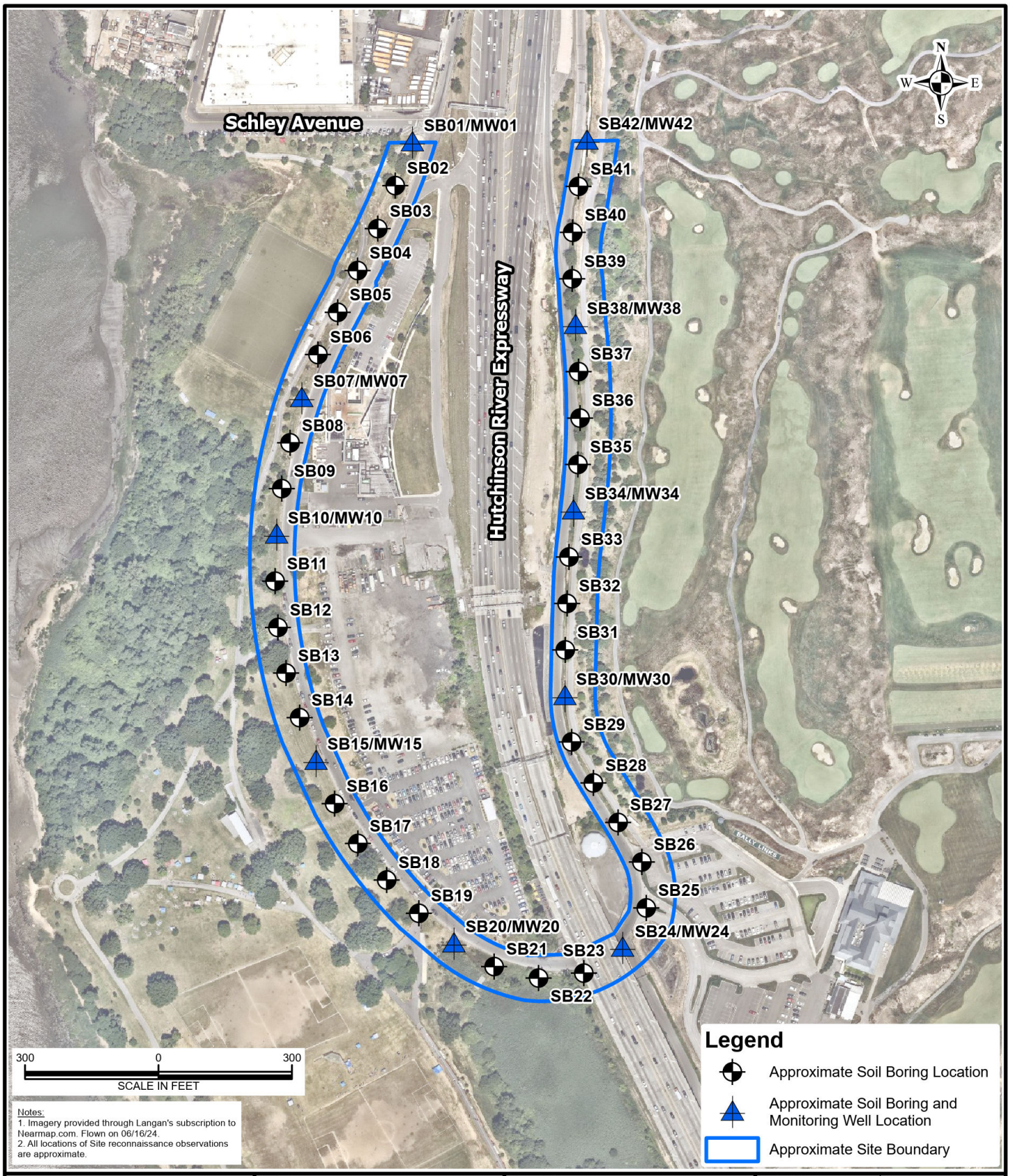

Notes:
1. Imagery provided through Langan's subscription to Nearmap.com. Flown on 06/16/24.
2. All locations of Site reconnaissance observations are approximate.

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Project
PROPOSED BALLY'S CASINO - RING ROAD AT FERRY POINT PARK
BRONX NEW YORK

Figure Title
PROPOSED SAMPLE LOCATION PLAN

Project No. 170773001
Date 9/9/2024
Scale 1" = 300 feet
Drawn By MG
Figure 2

© 2023 Langan

Path: \\langan.com\data\NYC\data0\170773001\Project Data\ArcGIS\APRX\170773001\170773001.aprx

Tables

Table 1
Proposed Sample Summary
Subsurface Investigation Work Plan
Proposed Bally's Casino - Ring Road
at Ferry Point Park
Bronx, New York
Langan Project No. 170773001

No.	Sample Name	Type	Boring	Depth	Time	Date	Rationale	Depth[1]	Analysis
SOIL									
1	SB01_depth	Grab	SB01 *				Investigate RECs 1 & 2	upper 2 feet of historic fill	Part 375-list of VOCs, SVOCs, PCBs, Pesticides/Herbicides, and TAL Metals * Samples to be analyzed for PFAS
2	SB01_depth							maximum excavation depth	
3	SB02_depth		SB02				Investigate RECs 1 & 2	upper 2 feet of historic fill	
4	SB02_depth							maximum excavation depth	
5	SB03_depth		SB03				Investigate RECs 1 & 2	upper 2 feet of historic fill	
6	SB03_depth							maximum excavation depth	
7	SB04_depth		SB04				Investigate RECs 1 & 2	upper 2 feet of historic fill	
8	SB04_depth							maximum excavation depth	
9	SB05_depth		SB05				Investigate RECs 1 & 2	upper 2 feet of historic fill	
10	SB05_depth							maximum excavation depth	
11	SB06_depth		SB06				Investigate RECs 1 & 2	upper 2 feet of historic fill	
12	SB06_depth							maximum excavation depth	
13	SB07_depth		SB07 *				Investigate RECs 1 & 2	upper 2 feet of historic fill	
14	SB07_depth							maximum excavation depth	
15	SB08_depth		SB08				Investigate RECs 1 & 2	upper 2 feet of historic fill	
16	SB08_depth							maximum excavation depth	
17	SB09_depth		SB09				Investigate RECs 1 & 2	upper 2 feet of historic fill	
18	SB09_depth							maximum excavation depth	
19	SB10_depth		SB10 *				Investigate RECs 1 & 2	upper 2 feet of historic fill	
20	SB10_depth							maximum excavation depth	
21	SB11_depth		SB11				Investigate RECs 1 & 2	upper 2 feet of historic fill	
22	SB11_depth							maximum excavation depth	
23	SB12_depth		SB12				Investigate RECs 1 & 2	upper 2 feet of historic fill	
24	SB12_depth							maximum excavation depth	
25	SB13_depth		SB13				Investigate RECs 1 & 2	upper 2 feet of historic fill	
26	SB13_depth							maximum excavation depth	
27	SB14_depth		SB14				Investigate RECs 1 & 2	upper 2 feet of historic fill	
28	SB14_depth							maximum excavation depth	
29	SB15_depth		SB15 *				Investigate RECs 1 & 2	upper 2 feet of historic fill	
30	SB15_depth							maximum excavation depth	
31	SB16_depth		SB16				Investigate RECs 1 & 2	upper 2 feet of historic fill	
32	SB16_depth							maximum excavation depth	
33	SB17_depth		SB17				Investigate RECs 1 & 2	upper 2 feet of historic fill	
34	SB17_depth							maximum excavation depth	
35	SB18_depth		SB18				Investigate RECs 1 & 2	upper 2 feet of historic fill	
36	SB18_depth							maximum excavation depth	
37	SB19_depth		SB19				Investigate RECs 1 & 2	upper 2 feet of historic fill	
38	SB19_depth							maximum excavation depth	
39	SB20_depth		SB20 *				Investigate RECs 1 & 2	upper 2 feet of historic fill	
40	SB20_depth							maximum excavation depth	
41	SB21_depth		SB21				Investigate RECs 1 & 2	upper 2 feet of historic fill	
42	SB21_depth							maximum excavation depth	
43	SB22_depth		SB22				Investigate RECs 1 & 2	upper 2 feet of historic fill	
44	SB22_depth							maximum excavation depth	
45	SB23_depth		SB23				Investigate RECs 1 & 2	upper 2 feet of historic fill	
46	SB23_depth							maximum excavation depth	
47	SB24_depth		SB24 *				Investigate RECs 1 & 2	upper 2 feet of historic fill	
48	SB24_depth							maximum excavation depth	
49	SB25_depth		SB25				Investigate RECs 1 & 2	upper 2 feet of historic fill	
50	SB25_depth							maximum excavation depth	
51	SB26_depth		SB26				Investigate RECs 1 & 2	upper 2 feet of historic fill	
52	SB26_depth							maximum excavation depth	
53	SB27_depth		SB27				Investigate RECs 1 & 2	upper 2 feet of historic fill	
54	SB27_depth							maximum excavation depth	
55	SB28_depth		SB28				Investigate RECs 1 & 2	upper 2 feet of historic fill	
56	SB28_depth							maximum excavation depth	
57	SB29_depth		SB29				Investigate RECs 1 & 2	upper 2 feet of historic fill	
58	SB29_depth							maximum excavation depth	
59	SB30_depth		SB30 *				Investigate RECs 1 & 2	upper 2 feet of historic fill	
60	SB30_depth							maximum excavation depth	
61	SB31_depth		SB31				Investigate RECs 1 & 2	upper 2 feet of historic fill	
62	SB31_depth							maximum excavation depth	
63	SB32_depth		SB32				Investigate RECs 1 & 2	upper 2 feet of historic fill	
64	SB32_depth							maximum excavation depth	
65	SB33_depth		SB33				Investigate RECs 1 & 2	upper 2 feet of historic fill	
66	SB33_depth							maximum excavation depth	
67	SB34_depth		SB34 *				Investigate RECs 1 & 2	upper 2 feet of historic fill	
68	SB34_depth							maximum excavation depth	
69	SB35_depth		SB35				Investigate RECs 1 & 2	upper 2 feet of historic fill	
70	SB35_depth							maximum excavation depth	
71	SB36_depth		SB36				Investigate RECs 1 & 2	upper 2 feet of historic fill	
72	SB36_depth							maximum excavation depth	
73	SB37_depth		SB37				Investigate RECs 1 & 2	upper 2 feet of historic fill	
74	SB37_depth							maximum excavation depth	
75	SB38_depth		SB38 *				Investigate RECs 1 & 2	upper 2 feet of historic fill	
76	SB38_depth							maximum excavation depth	
77	SB39_depth		SB39				Investigate RECs 1 & 2	upper 2 feet of historic fill	
78	SB39_depth							maximum excavation depth	
79	SB40_depth		SB40				Investigate RECs 1 & 2	upper 2 feet of historic fill	
80	SB40_depth							maximum excavation depth	
81	SB41_depth		SB41				Investigate RECs 1 & 2	upper 2 feet of historic fill	
82	SB41_depth							maximum excavation depth	
83	SB42_depth		SB42 *				Investigate RECs 1 & 2	upper 2 feet of historic fill	
84	SB42_depth							maximum excavation depth	

Table 1
Proposed Sample Summary
Subsurface Investigation Work Plan
Proposed Bally's Casino - Ring Road
at Ferry Point Park
Bronx, New York
Langan Project No. 170773001

No.	Sample Name	Type	Boring	Depth	Time	Date	Rationale	Depth[1]	Analysis
SOIL									
85	SBDUP01_date *	Duplicate	TBD				QA/QC	TBD	Part 375-list of VOCs, SVOCs, PCBs, Pesticides/Herbicides, and TAL Metals * Samples to be analyzed for PFAS
86	SBDUP02_date								
87	SBDUP03_date								
88	SBDUP04_date								
89	SBDUP05_date								
NA	MS/MSD-SS01_date *	MS/MSD							
	MS/MSD-SS02_date								
	MS/MSD-SS03_date								
	MS/MSD-SS04_date								
	MS/MSD-SS05_date								
	SBFB01_date	Field Blank	NA					NA	
	SBFB02_date								
	SBFB03_date								
	SBFB04_date								
	SBFB05_date								
	SBTB01_date	Trip Blank	NA					NA	Part 375 VOCs
	SBTB02_date	Trip Blank							
	SBTB03_date	Trip Blank							
	SBTB04_date	Trip Blank							
	SBTB05_date	Trip Blank							
	PFAS_SBFB01_date	PFAS Field Blank	NA					NA	PFAS
	PFAS_SBFB02_date								
	PFAS_SBFB03_date								
	PFAS_SBFB04_date								
	PFAS_SBFB05_date								
GROUNDWATER									
No.	**Sample Name**	**Type**	**Boring**	**Depth**	**Time**	**Date**	**Rationale**	**Depth[1]**	**Analysis**
1	MW01_date	Grab	MW01				Investigate REC 1 & 2	center of water column	Part 375-list of VOCs, SVOCs, PCBs, Pesticides/Herbicides, Dissolved and Total Metals, PFAS * will not be analyzed for PFAS
2	MW07_date		MW07					center of water column	
3	MW10_date		MW10					center of water column	
4	MW15_date		MW15					center of water column	
5	MW20_date		MW20					center of water column	
6	MW24_date		MW24					center of water column	
7	MW30_date		MW30					center of water column	
8	MW34_date		MW34					center of water column	
9	MW38_date		MW38					center of water column	
10	MW42_date		MW42					center of water column	
11	GWDUP01_date	Duplicate	TBD				QA/QC	TBD	
NA	MS/MSD-GW01_date	MS/MSD							
	GWFB01_date *	Field Blank	NA					NA	
	PFAS_GWFB01_date	PFAS Field Blank							PFAS
	GWTB01_date	Trip Blank							Part 375 VOCs
	GWTB02_date	Trip Blank							
	GWTB03_date	Trip Blank							

Areas of Concern (AOCs):
REC 1 - Current and Historical use of Adjoining and Surrounging Properties
REC 2 - Non-native Fill

Notes:
1. Sample depth intervals will be determined in the field.
2. Soil samples to be analyzed for New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules and Regulations (6 NYCRR) Part 375-list compounds.
3. If field evidence of contamination is noted (e.g., photoionization detector readings above background, staining, odor), a third sample will be collected within the observed impacts.
4. Two soil samples collected from every fifth boring and one groundwater sample will be analyzed for PFAS
5. TBD = to be determined (in the field)
6. VOC = volatile organic compound
7. SVOC = semivolatile organic compound
8. PCB = polychlorinated biphenyl
9. TCL = Target Compound List
10. TAL = Target Analyte List
11. QA/QC = quality assurance/quality control
12. NA = not applicable
13. REC = recognized environmental condition
14. PFAS = Per- and Polyfluoroalkyl Substances

Appendix A Proposed Development Plans

NOTES

1. THIS SKETCH IS FOR REFERENCE PURPOSES ONLY. AREAS HAVE BEEN BASED ON SATELLITE IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.

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Project

BALLY'S NEW YORK FERRY POINT

BLOCK No. 5622, PART OF LOT No. 1
BOROUGH OF BRONX
CITY OF NEW YORK

BRONX COUNTY — NEW YORK

Drawing Title

SKETCH

Project No. 170773001	Drawing No. SK106
Date 06/28/2024	
Drawn By TOT, AA	
Checked By TOC	Sheet 1 of 1

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PROJECT NO. 170773001

Filename: \\langan.com\data\NYC\data\170773001\Project Data_Discipline\Survey\CAD\Existing\Ferry Point\Parcels-Area Sketches\Alienation Parcels-2024\170773001-SK106 Alienation Roadway Parcel.dwg Date: 7/1/2024 Time: 10:53 User: aalevizou Style Table: Langan.stb Layout: SK106

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CITY OF NEW YORK, BOROUGH OF THE BRONX
OFFICE OF THE PRESIDENT
TOPOGRAPHICAL BUREAU

REFERENCE MAPS

MAP NO. XXXX

SHOWING

THE ESTABLISHMENT

OF

"RING ROAD"

AND

THE ELIMINATION

OF

PARKLAND

WITHIN AN AREA GENERALLY BOUNDED BY:

SCHLEY AVENUE

AND

THE ADJUSTMENT OF GRADES AND BLOCK DIMENSIONS NECESSITATED THEREBY

DATED: JUNE 21, 2024

XXXX, P.E.
CHIEF ENGINEER
TOPOGRAPHICAL BUREAU
BOROUGH OF THE BRONX

XXXX, P.E.
CONSULTING ENGINEER
BOROUGH OF THE BRONX

VANESSA L. GIBSON
PRESIDENT
BOROUGH OF THE BRONX

NOTE

- INDICATES STREET LINE HERETOFORE ESTABLISHED AND HEREBY RETAINED.
- INDICATES STREET LINE HEREBY ESTABLISHED.
- INDICATES EXTENSION LINE SHOWN FOR TIE-IN DIMENSIONS.
- 228.00 — INDICATES DIMENSION HEREBY ESTABLISHED.
- 17.0 — INDICATES ELEVATION HEREBY ESTABLISHED.
- 1820 — INDICATES THE BRONX TAX BLOCK NUMBER.
- P.C. — INDICATES POINT OF CURVATURE.
- P.T. — INDICATES POINT OF TANGENCY.
- 75' — INDICATES TIE-IN DISTANCE TO AN ELEVATION HERETOFORE ESTABLISHED AND HEREBY RETAINED.
- 75' — INDICATES TIE-IN DISTANCE TO AN ELEVATION HEREBY ESTABLISHED.
- PARK — INDICATES PARK HERETOFORE ESTABLISHED AND HEREBY RETAINED.
- INDICATES PARK HERETOFORE ESTABLISHED AND HEREBY ELIMINATED.

ELEVATIONS APPLY TO CENTERLINE OF THE STREETS UNLESS OTHERWISE INDICATED.
ELEVATIONS REFER TO THE DATUM OF THE BOROUGH OF THE BRONX,
WHICH IS 2.725 FEET ABOVE THE N.G.S. DATUM AT SANDY HOOK, NEW
JERSEY.

I, _____, SECRETARY OF THE CITY PLANNING COMMISSION, DO HEREBY CERTIFY THAT THIS MAP IS ONE OF _____SIMILAR MAPS APPROVED BY THE CITY PLANNING COMMISSION ON THE ___ DAY OF _____, 20___ (CALENDAR NO. ____) AND SUBSEQUENTLY APPROVED BY THE CITY COUNCIL ON _____ (RES. NO. _____) AND THAT THESE MAPS WERE FILED ON THE DATE OF THIS CERTIFICATION AND WILL TAKE EFFECT ON THE FOLLOWING DAY.

DATE: NEW YORK: _____

SECRETARY, CITY PLANNING COMMISSION

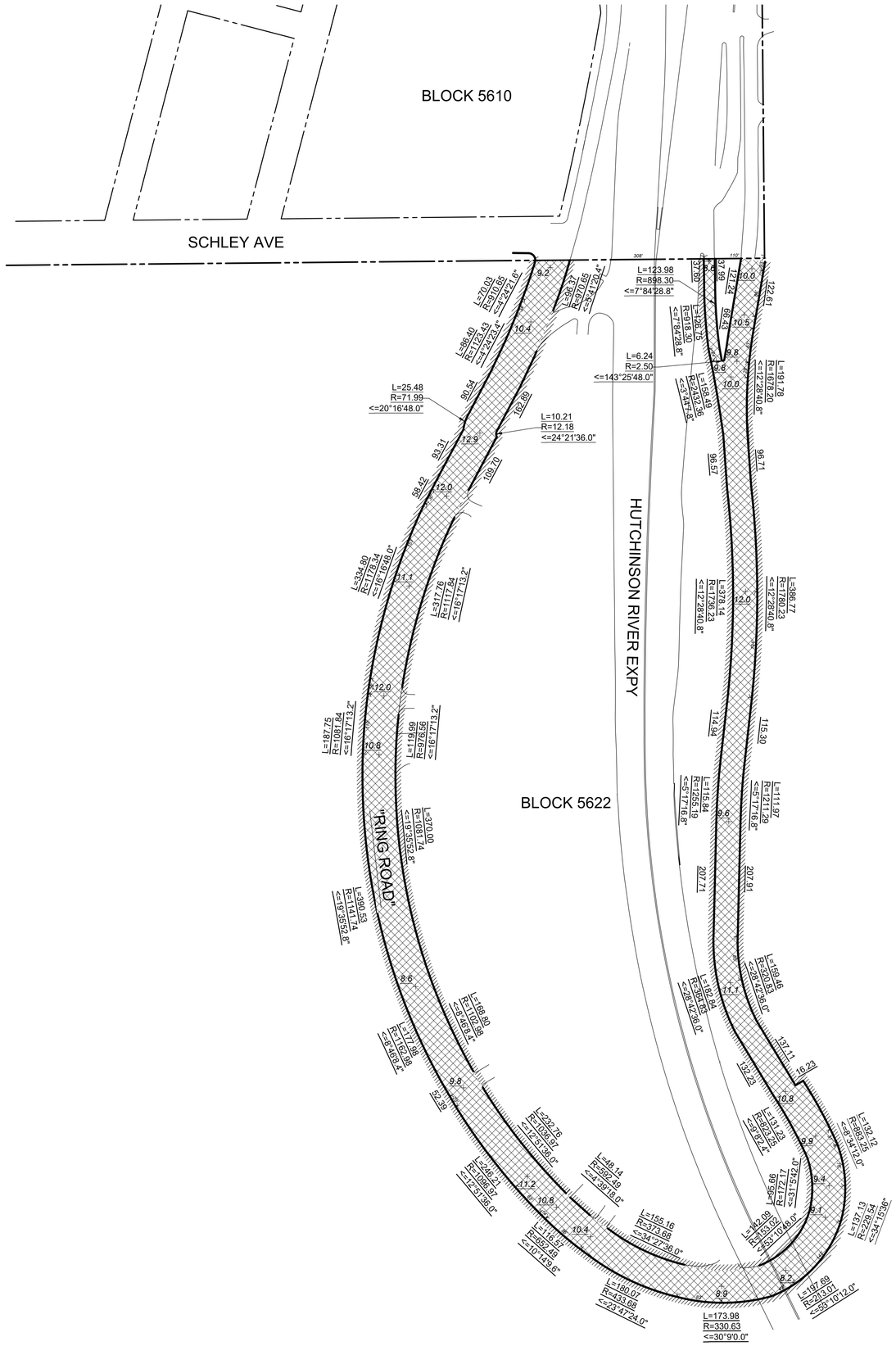

ENGLISH SCALE: 1 INCH = 80 FEET

0 80 160 240 360

0 9.6 28.8 48.0 67.2

METRIC SCALE: 1 CM = 9.60 METERS (31.496 FEET)

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BOROUGH PRESIDENT OF THE BRONX

PREPARED BY:

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ALT. MAP NO. XXXX (C.P.C. NO. XXXXXX XXX)

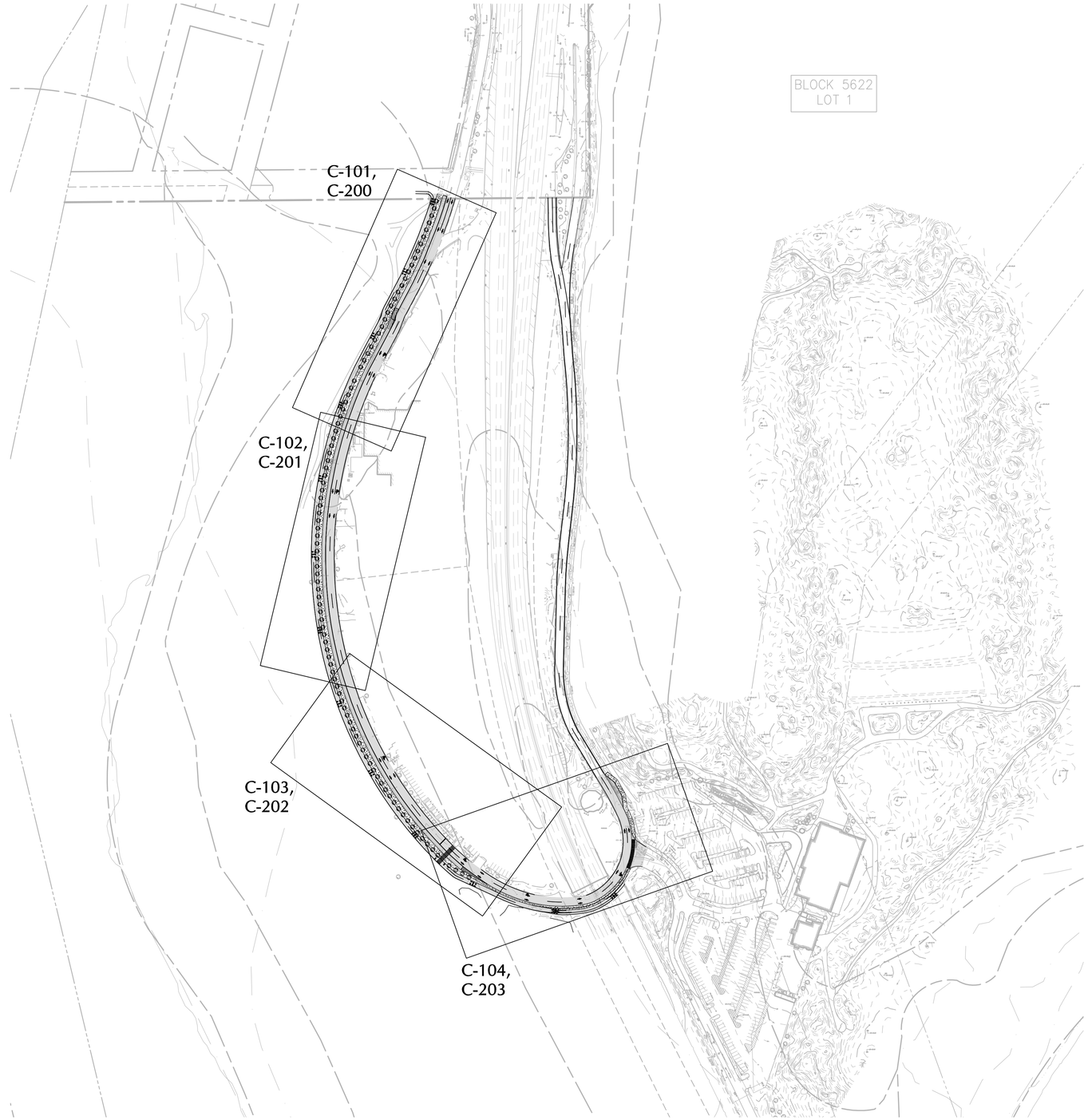

KEY MAP
SCALE: 1" = 150'

150 0 75 150
SCALE IN FEET

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Project
BALLY'S NEW YORK
FERRY POINT
BRONX COUNTY NEW YORK

Drawing Title
KEY MAP

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Date 8/2/2024
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Drawing No. C-100
Sheet 1 of 9

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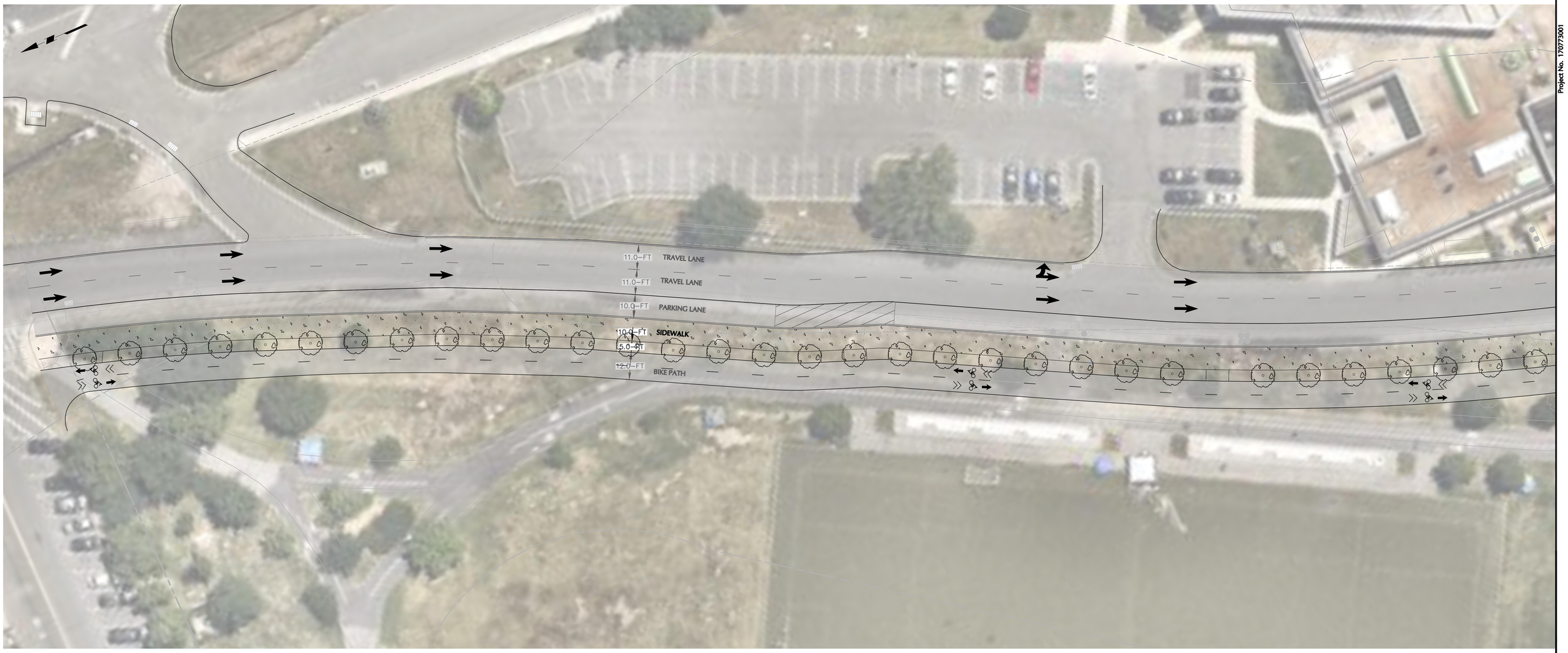

CONCEPTUAL SITE PLAN

SCALE: 1" = 20'

NOTES:

1. TOPOGRAPHIC INFORMATION TAKEN FROM AN ACTUAL SURVEY TITLED "TOPOGRAPHIC SURVEY" FOR BALLY'S NEW YORK FERRY POINT, PERFORMED BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECTURE AND GEOLOGY, D.P.C., DATED 03/31/2023.
2. APPROXIMATE SITE BOUNDARY TAKEN FROM DRAWING TITLED "SKETCH" FOR BALLY'S NEW YORK FERRY POINT BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECTURE AND GEOLOGY DATED 11/30/2023.
3. PROPOSED BUILDING AND SITE INFORMATION SHOWN HEREON IS FROM FILES ELECTRONICALLY RECEIVED FROM HKS ON 12/21/2023.

20 0 5 10 20
SCALE IN FEET

70 0 35 70
SCALE IN FEET

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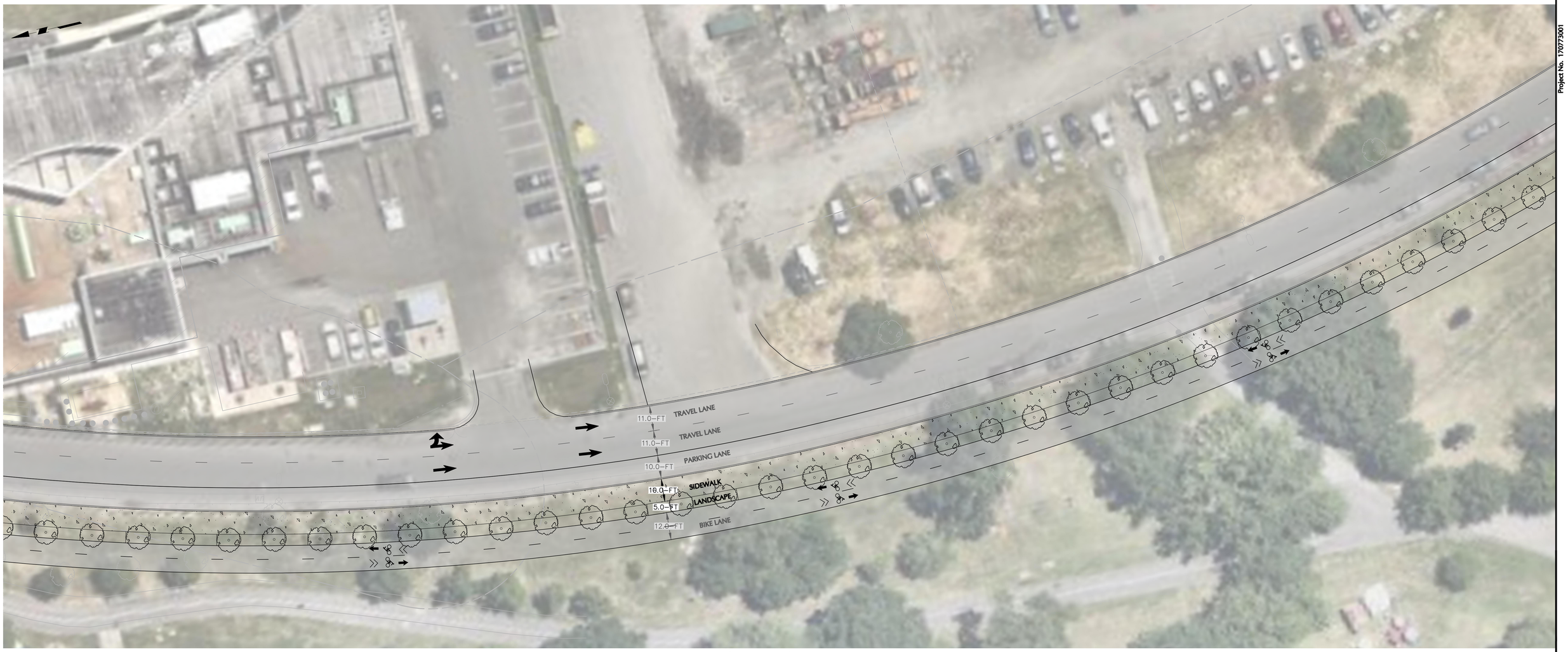

CONCEPTUAL SITE PLAN

SCALE: 1" = 20'

20 0 5 10 20
SCALE IN FEET

NOTES:

1. TOPOGRAPHIC INFORMATION TAKEN FROM AN ACTUAL SURVEY TITLED "TOPOGRAPHIC SURVEY" FOR BALLY'S NEW YORK FERRY POINT, PERFORMED BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECTURE AND GEOLOGY, D.P.C., DATED 03/31/2023.
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SCALE: 1" = 20'

20 0 5 10 20
SCALE IN FEET

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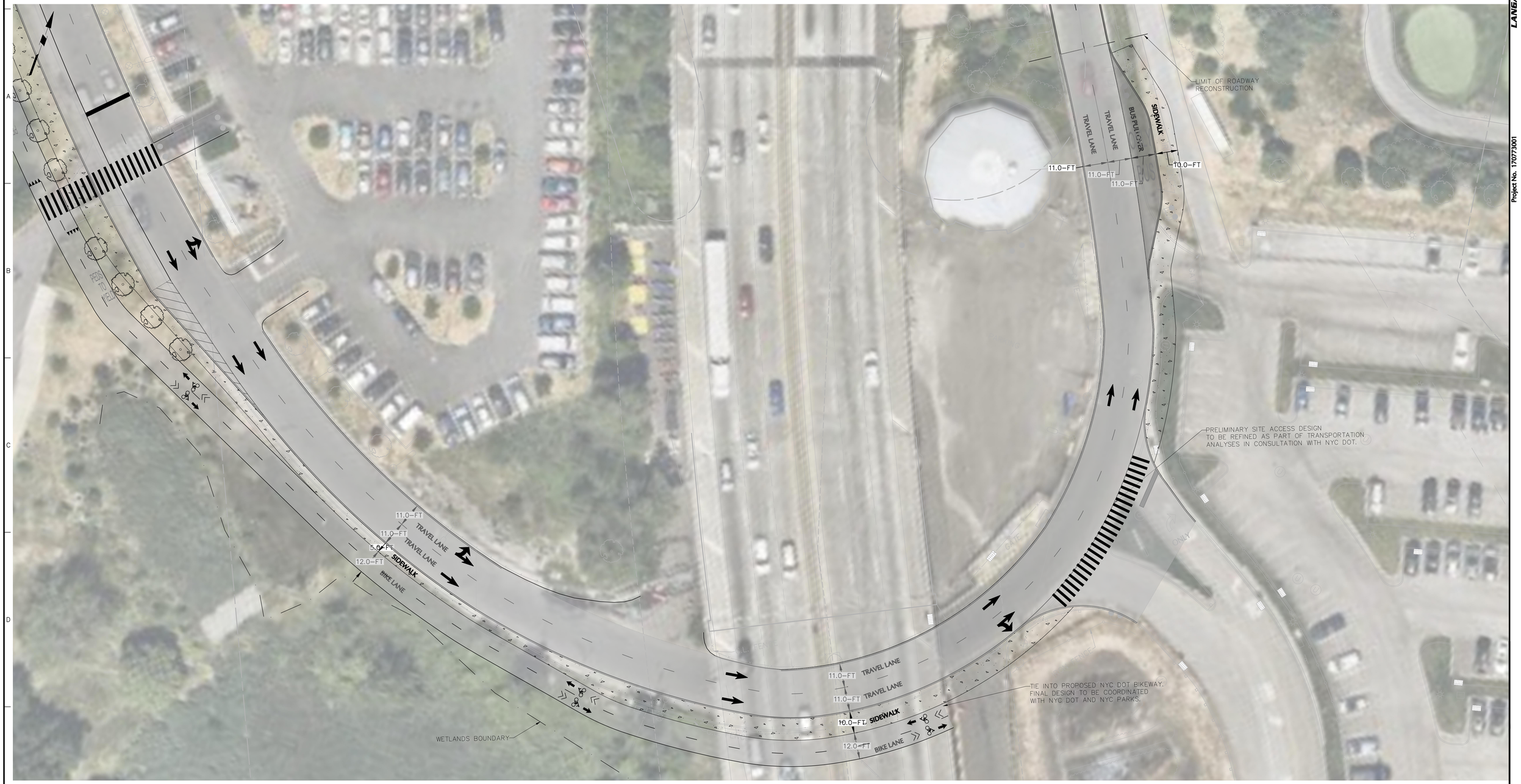

CONCEPTUAL SITE PLAN

SCALE: 1" = 20'

20 0 5 10 20
SCALE IN FEET

NOTES:

1. TOPOGRAPHIC INFORMATION TAKEN FROM AN ACTUAL SURVEY TITLED "TOPOGRAPHIC SURVEY" FOR BALLY'S NEW YORK FERRY POINT, PERFORMED BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECTURE AND GEOLOGY, D.P.C., DATED 03/31/2023.
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Appendix B Phase I Site Environmental Assessment

PHASE I ENVIRONMENTAL SITE ASSESSMENT

for

PROPOSED BALLY'S CASINO – RING ROAD
at FERRY POINT PARK
Bronx, New York 10465

Prepared for:

Bally's Corporation
100 Westminster Street
Providence, Rhode Island 02903

Prepared by:

Langan Engineering, Environmental, Surveying,
Landscape Architecture and Geology, D.P.C.
360 West 31st Street, 8th Floor
New York, New York 10001

Lamees Esmail, PE
Project Manager

Brian Gochenaur, QEP
Associate Principal/Vice President

Report Date: **12 September 2024**
180-Day Viability Date: **31 January 2025**
170773001

LANGAN

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EXECUTIVE SUMMARY

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) completed a Phase I Environmental Site Assessment (ESA) for a section of Hutchinson River Parkway, referred to as Ring Road, located within Ferry Point Park, Bronx, New York (the "Subject Property") under the written authorization of Bally's Corporation LLC (Bally's, "Client" and the "user").

The Phase I ESA was completed following the guidelines of ASTM International Standard Practice E1527-21 (ASTM E1527-21), the United States Environmental Protection Agency's (US EPA) All Appropriate Inquiries (AAI) Rule, and industry standard practice. The user requested this ESA to identify recognized environmental conditions (REC), controlled recognized environmental conditions (CREC), historical recognized environmental conditions (HREC), and de minimis conditions associated with the Subject Property.

Subject Property Layout

The Subject Property is an approximately 9.85-acre, U-shaped section of Ferry Point Park that primarily serves as a park thoroughfare and public recreation space. The Subject Property is improved with an uninterrupted, circular roadway, referred to as Ring Road. Ring Road is a one-lane, one-way, asphalt-paved roadway and is bordered on either side by concrete curbing, metal guardrails, and grass shoulders. The remainder of the Subject Property includes vegetated areas and footpaths associated with Ferry Point Park. The section of Ring Road comprising the Subject Property totals about 1 mile.

Improvements to the Subject Property, including widening of Ring Road are contemplated by Bally's as part of the proposed development of a gaming facility. The Subject Property encompasses the total area of proposed roadway improvements, which includes park land extending between about 40 and 60 feet beyond the current extents of Ring Road.

Subject Property Current Use

The Subject Property is used as a park roadway and also contains vegetation and footpaths. Vehicles must travel along Ring Road to enter Ferry Point Park, the adjoining Bally's Golf Links at Ferry Point golf course, and adjoining Bronx-Whitestone Bridge Metropolitan Transportation Authority (MTA) facility.

Subject Property History

The majority of the Subject Property was part of Westchester Creek and the Baxter Creek Inlet (now the East River) before infilling and development of Ferry Point Park in the 1940s. By 1947, the Subject Property and surrounding area had been infilled to create new land, and Ring Road had been constructed. Improvements to the Subject Property continued through 2015, when adjoining park and golf course construction were completed, and the Subject Property appeared as it does today.

Adjoining Properties and Surrounding Area

The surrounding area was depicted as mostly undeveloped and inundated in the topographic maps in the late 1800s and early 1900s. During the 1940s, the general area was infilled, and the Bronx-Whitestone Bridge was constructed on the southern-adjoining property. The supporting toll plaza and MTA structures were also erected north of the Subject Property during this time period. Landfilling operations took place on the eastern- and southern-adjoining properties

between 1950 and the 1960s. Development related to Ferry Point Park operations continued east, south, and west of the Subject Property until the current configuration was achieved circa 2015. North of the Subject Property, commercial development continued through the 1990s, until the existing buildings were constructed.

Conclusions

Langan completed a Phase I ESA of the Subject Property using the scope guidelines and inherent limitations of ASTM E1527-21. Table ES-1 presents the conclusions of the Phase I ESA.

Table ES-1 Conclusions, Findings and Opinions

ASTM E1527-21 Scope Items
Recognized Environmental Conditions (RECs)
Current and Historical Use of the Adjoining and Surrounding Properties: Historical adjoining and surrounding property use includes a municipal solid waste landfill (1950-1960s), a United Parcel Service (UPS) facility with petroleum and chemical bulk storage (1985 - present), and a Metropolitan Transportation Authority (MTA) bridge support facility with petroleum bulk storage (1951 - present). Documented and undocumented spills or releases of petroleum products or hazardous substances associated with these properties may have adversely affected groundwater and/or soil vapor on the Subject Property. *Non-native Fill:* Non-native fill is expected to underly the site above native soil. Non-native fill in New York City may contain contaminants, particularly metals and semi-volatile organic compounds (SVOCs), at concentrations that exceed applicable state and/or federal standards. Non-native fill does not trigger a regulatory reporting requirement, but may require implementation of special soil handling, management, and off-site disposal procedures if disturbed during development of the Subject Property.
Controlled Recognized Environmental Conditions (CRECs)
Langan did not identify CRECs.
Historical Recognized Environmental Conditions (HRECs)
Langan did not identify HRECs.
De Minimis Conditions
Langan did not identify de minimis conditions.
Significant Data Gaps
Langan did not identify significant data gaps.
Non-ASTM E1527-21 Scope Items
Business Environmental Risks (BERs)
Langan did not identify BERs.

1. INTRODUCTION

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) completed a Phase I Environmental Site Assessment (ESA) for a section of Hutchinson River Parkway, referred to as Ring Road, located within Ferry Point Park, Bronx, New York (the "Subject Property") under the written authorization of Bally's Corporation LLC (Bally's, "Client" and the "user"). A Subject Property Location Map is provided in Appendix A (Figure 1).

The Phase I ESA was completed following the guidelines of ASTM International Standard Practice E1527-21 (ASTM E1527-21), the United States Environmental Protection Agency's (US EPA) All Appropriate Inquiries (AAI) Rule, and industry standard practice. The user requested this ESA to identify recognized environmental conditions (REC), controlled recognized environmental conditions (CREC), historical recognized environmental conditions (HREC), and de minimis conditions associated with the Subject Property.

1.1 Purpose

The purpose of this Phase I ESA is to identify RECs associated with the Subject Property. This purpose also includes identifying CRECs, HRECs, de minimis conditions, and significant data gaps. The definitions of REC, CREC, HREC, de minimis condition and other select ASTM terms used in this report are in Section 8.

1.2 Scope of Services

Langan's scope of services consisted of the completion of a Phase I ESA following the guidelines of ASTM E1527-21. Langan's scope of services as it pertains to the elements of a Phase I ESA as specified in ASTM E1527-21 is described below.

On 8 July 2024, the US EPA final rule designating two per- and polyfluoroalkyl substances (PFAS) – perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) including their salts and structural isomers – as hazardous substances under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) became effective. Because of the complex and varied historical use of PFAS in various industries; limited prior disclosures of PFAS content on product specification sheets, Material Safety Data Sheets (MSDS), and Safety Data Sheets (SDS); the complex chemistry and chemical transformations associated with some PFAS; and the ever-growing and varied list of state regulations, it is not feasible to evaluate PFOA and PFOS without also considering other PFAS. As such, absent analytical data, Langan incorporated a review of PFAS as a general class into this Phase I ESA.

PFAS and other CERCLA hazardous substances and petroleum products have been detected in background environmental samples across the globe, including in areas removed from specific recognized sources. This Phase I ESA was not intended to evaluate background concentrations of CERCLA hazardous substances or petroleum products, regardless of whether the source is naturally occurring or anthropogenic. The objective of Langan's scope of services was to identify the presence, likely presence, and/or material threat of a release of CERCLA hazardous substances and petroleum products related to specific property uses that are generally recognized as known or potential sources of such substances and products.

1.2.1 Records Review and Local Government Interviews

Langan contracted a third-party provider to search environmental regulatory databases and provide historical records. The database search included select federal, state, local and tribal standard source environmental databases within the approximate search radii specified by ASTM E1527-21.

Langan submitted Freedom of Information Act (FOIA) requests to supplement environmental database listing information. The FOIA requests were submitted to the New York City Department of Environmental Protection (NYCDEP), New York City Department of Health and Mental Hygiene (NYCDHMH), New York City Fire Department (FDNY), New York State Department of Health (NYSDOH), New York State Department of Environmental Conservation (NYSDEC) and US EPA Region 2.

Langan supplemented the third-party-provided historical records with review of online historical record sources including Google Earth Pro, the New York City Department of Buildings (NYCDOB) online query system, New York City Department of City Planning Commission (NYCDCP) zoning maps, the City Environmental Quality Review (CEQR) Environmental Designation list, the Automated City Register Information System (ACRIS) website, and US EPA databases. Agency FOIA-requested information, where received, is discussed in relevant sections of this report and referenced in Section 7. Pertinent documents are provided in Appendix B.

1.2.2 Site Reconnaissance and Owner/Operator/Occupant Interviews

Langan completed the site reconnaissance on 9 August 2024. Kaitlyn Gioia of Langan coordinated with Brian Crowell (General Manager with Bally's Golf Links at Ferry Point [the User]; the "key site manager") to schedule the site reconnaissance for the Subject Property.

Langan walked the periphery of the Subject Property and observed the Subject Property from adjoining public thoroughfares. Langan observed the adjoining properties and the surrounding area from the periphery of the Subject Property and from public thoroughfares adjoining to or traveled on to access the Subject Property. The weather at the time of the site reconnaissance was approximately 80°F and rainy. Photographs from the site reconnaissance are provided in Appendix C.

An owner/operator questionnaire was completed by Ms. Kay Zias, a representative of the current owner of the Subject Property, the NYC Department of Parks and Recreation (NYCDPR). Ms. Zias is the Director of the Environmental Remediation Unit with NYCDPR. Ms. Zias noted that she is not aware of litigation administrative proceedings, or environmental notices related to hazardous substances or petroleum products at the Subject Property. A summary of the owner's responses is provided in Appendix D and relevant information from environmental reports provided from NYCDPR is discussed in applicable sections of this report.

1.2.3 Evaluation, Report and Parts Used in Concert

Langan evaluated the information obtained from the records reviews, site reconnaissance and interviews described above, and from the user as described in Section 1.3 in concert with each other. Langan's findings, opinions, and conclusions are discussed throughout this report. Significant assumptions, or deletions, deviations or exceptions to ASTM E1527-21 are noted in Section 1.4.

1.2.4 Non-ASTM Scope Services

The scope of services for the Phase I ESA did not include non-scope ASTM considerations including, but not limited to, asbestos, biological agents, mold, etc.

1.3 User Responsibilities

Langan requested that the user provide the results of tasks the user is responsible for completing to satisfy the requirements of AAI. The tasks include: providing information related to specialized knowledge or experience of the user or the degree of obviousness relative to conditions indicative of releases or threatened releases; actual knowledge of the user regarding environmental liens or activity and use limitations (AULs) related to the Subject Property; specialized knowledge or experience of the user; reasons for significantly lower purchase prices, and commonly known or reasonably ascertainable information within the local community about the Subject Property. Langan also requested that the user state the reason the Phase I ESA was requested. A summary of the user's responses is provided in Appendix D and relevant information provided by the user is discussed in applicable sections of this report.

Langan contracted Environmental Data Resources, Inc. (EDR) to conduct an environmental lien and AUL search for the Subject Property. The result of the search, which included a compilation of available data and verification of the findings with the appropriate regulatory authorities, did not reveal environmental liens or AULs. A copy of the environmental lien search is provided in Appendix B.

1.4 Limiting Conditions/Deviations

Langan was unable to observe the ground surface throughout unpaved sections of the Subject Property exterior due to vegetation overgrowth. This limiting condition did not impact Langan's conclusions based on review of aerial photographs.

Langan did not delete or deviate from the ASTM E1527-21 guidelines during this Phase I ESA.

1.5 Data Gaps

Data gaps, if encountered, are discussed throughout the report. Significant data gaps, if any, are summarized in Section 5.0.

2. SUBJECT PROPERTY DESCRIPTION AND CURRENT USE

The following sections describe the Subject Property location, ownership, physical setting, and current layout and operations.

2.1 Location, Legal Description, and Ownership

The approximately 9.85-acre Subject Property is identified on the New York City Bronx Borough Tax Map as part of Block 5622, Lot 1. The Subject Property is bound by Schley Avenue, the Hutchinson River Parkway, and service roads to the north; Bally's Golf Links at Ferry Point golf course to the east; Ferry Point Park and the Bronx-Whitestone Bridge to the south; and Ferry Point Park to the west. Between the western and eastern legs of the U-shape formed by the Subject Property lies public parking areas for Ferry Point Park and the Bronx-Whitestone Bridge Metropolitan Transit Authority (MTA) Building. According to ACRIS, the Subject Property is owned by the NYCDPR.

2.2 Physical Setting

The physical setting that includes the geologic, hydrogeologic, hydrologic, and topographic characteristics of the Subject Property and surrounding area is discussed below.

2.2.1 Topography

The 2019 United States Geological Survey (USGS) 7.5-minute quadrangle topographic map for Flushing depicts the Subject Property at an elevation of approximately 16 feet above mean sea level (msl) with a gentle slope downward toward the west-southwest. The regional topography slopes downward toward the west-southwest and Westchester Creek, which is located approximately 320 feet west of the Subject Property.

2.2.2 Geology

According to the U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) Soil Survey Geographic (SSURGO) data for Summit County, soils at the Subject Property consist primarily of urban land with tidal marsh stratum, and lesser amounts of Greenbelt loam, Greatkills gravelly sandy loam, and North Meadow sandy loam. Urban Land refers to soils that have been altered by human activities thus making them unidentifiable. Typically, these soils have been mixed with other materials, such as brick, concrete, and demolition debris of unknown origin (non-native fill). Non-native fill found in urban environments typically contains ash, demolition debris, and/or municipal waste products and may contain contaminants (e.g., semi volatile organic compounds [SVOCs] or metals) at concentrations above current regulatory standards. Non-native fill does not trigger a regulatory reporting requirement, but may require implementation of special soil handling, management, and off-site disposal procedures if disturbed during development of the Subject Property. The presence of non-native fill is considered a REC.

According to the USGS Bedrock and engineering geologic maps of New York County and parts of Kings and Queens Counties, New York, and parts of Bergen and Hudson Counties, New Jersey (Baskerville, C.A., 1994), the Subject Property is in the Pelham Bay Member, which consists of sillimanite-grade gneisses. According to previous geotechnical investigations in the surrounding area, subsurface conditions generally consist of a layer of miscellaneous fill, overlying natural,

soft, silty, clayey, peat and sands, which overly glacial till. Bedrock is expected to be 80 to 120 feet below current grade.

2.2.3 Hydrogeology

Surface water bodies are not present within the boundary of the Subject Property. The nearest surface water bodies are Westchester Creek and the East River. Information regarding Subject Property-specific groundwater flow direction is unavailable. Groundwater flow can be influenced by several factors such as surface water bodies, wetlands, hydrogeologic and anthropogenic variables. However, based on topographic gradient and proximity to Westchester Creek and the East River, it is expected that groundwater generally flows to the west-southwest.

A review of the Geocheck section of the LightBox Environmental Data Resources (EDR) Regulatory Database Report (Appendix E) and site reconnaissance observations did not identify groundwater wells on the Subject Property. The EDR report identified one groundwater monitoring well within a quarter mile of the Subject Property. No groundwater elevation data from the well is available; however, based on Langan's experience with, and previous reports for the area, groundwater is tidally influenced and estimated between 2 and 20 feet below grade surface (bgs).

2.3 Subject Property Description

The Subject Property is an approximately 9.85-acre, U-shaped section of Ferry Point Park that primarily serves as a park thoroughfare and public space. The Subject Property is improved with an uninterrupted, circular roadway, referred to as Ring Road. Ring Road is a one-lane, one-way, asphalt-paved park roadway and is bordered on either side by concrete curbing, metal guardrails, and grass shoulders. The remainder of the Subject Property includes vegetated areas and footpaths associated with Ferry Point Park. The section of Ring Road comprising the Subject Property totals about 1 mile.

Improvements to the Subject Property, including widening of Ring Road are contemplated by Bally's as part of the proposed development of a gaming facility. The Subject Property encompasses the total area of proposed roadway improvements, which includes park land extending between about 40 and 60 feet beyond the current extents of Ring Road.

A Subject Property Layout Map is provided in Figure 2 of Appendix A. Photographs of the Subject Property and a checklist documenting Langan's observations relative to the features, activities, uses and conditions outlined in Section 9.4 of ASTM E1527-21 are in Appendix C.

2.4 Current Subject Property Use

The Subject Property is used as a park roadway and also contains vegetation and footpaths. Vehicles must travel along Ring Road to enter Ferry Point Park, the adjoining Bally's Golf Links at Ferry Point golf course, and adjoining Bronx-Whitestone Bridge MTA facility.

The following table summarizes Subject Property utility providers.

Table 2-1 Utility Providers

Utility	Providers
Electricity	Consolidated Edison (Con Edison)
Natural gas	None – within the Con Edison service area

Utility	Providers
Water	NYCDEP
Sewer	NYCDEP

2.5 Hazardous Substances and Petroleum Products

Langan did not observe hazardous waste or petroleum products at the Subject Property. According to EDR database records, no hazardous waste is currently being generated at the Subject Property.

2.5.1 Underground Storage Tanks (USTs)

Langan did not observe evidence of USTs at the Subject Property.

2.5.2 Aboveground Storage Tanks (ASTs)

Langan did not observe evidence of ASTs at the Subject Property.

2.5.3 Drums, Totes, and Intermediate Bulk Containers

Langan did not observe drums, totes, or other intermediate bulk containers at the Subject Property.

2.5.4 Other Chemical Storage, Containers, or Equipment

Langan did not observe chemical storage, containers or equipment at the Subject Property.

2.6 Air Emissions

Langan did not identify sources of air emissions at the Subject Property.

2.7 Waste Management

The following sections describe current hazardous and non-hazardous waste streams, and observations of fill areas or other solid waste throughout the Subject Property.

2.7.1 Hazardous Waste

According to EDR database records, no hazardous waste is currently being generated at the Subject Property. Langan did not observe hazardous waste at the Subject Property.

2.7.2 Non-Hazardous Waste

Langan did not observe non-hazardous waste at the Subject Property.

2.7.3 Fill Areas or Solid Waste

Langan observed several about 1-inch-diameter holes adjacent to the metal guardrail along the eastern leg of the Subject Property. The holes are presumed to be associated with guardrail installation.

Langan did not observe areas that were apparently filled or graded by non-natural causes (or filled with material of unknown origin) that suggest the presence of garbage, construction debris,

demolition debris, or other solid waste disposal, or mounds or depressions suggesting solid waste disposal.

2.8 Wastewater

No wastewater streams are generated at the Subject Property. Connection to the municipal sanitary sewer has not yet been provided to the Subject Property but is available through the City of New York. Langan did not observe or identify evidence of septic systems or cesspools at the Subject Property.

2.9 Storm Water

Storm water at the Subject Property percolates through pervious areas or sheet flows to the into the municipal storm sewer system. Several storm drains are located throughout Ring Road. Langan did not observe evidence of impact (e.g., sheens, staining) to storm water pathways. As indicated by the user, Ring Road is prone to flooding during extreme weather events.

3. SUBJECT PROPERTY HISTORY AND RECORDS REVIEW

The following sections provide summaries of the historical uses of the Subject Property, and available information regarding documented environmental conditions associated with the historical uses.

3.1 Historical Summary

Langan compiled the following summary of the Subject Property history based on a review of readily available and reasonably ascertainable sources and interviews. Historical resources are provided in Appendix F.

Table 3-1 Subject Property History

Time Period	Historical Discussion
1890s – 1930s	The Subject Property is depicted as undeveloped and predominantly marsh- and swampland on topographic maps during this period. The majority of the Subject Property is part of the Westchester Creek and Baxter Creek Inlet and entirely submerged in the aerial photograph from 1924.
1940 – 1960s	According to the 1947 topographic map, the former marsh was filled in and Ring Road is visible on the Subject Property. Baxter Creek Inlet adjoins the Subject Property to the east. The Subject Property is bisected by a newly-constructed Bronx-Whitestone Bridge and associated toll plaza. Based on aerial photographs between 1950 and 1966, development of Ring Road continues, including widening the road and paving its surface. Connections from Ring Road are also made to the adjoining toll plaza.
1970s – 2010s	Between the 1970s and 2010s, Ring Road appears to remain relatively unchanged in aerial photographs, topographic maps, and Sanborn maps. Beyond Ring Road, the shoulder along the eastern part of the Subject Property is decreased circa 2011 to add a park footpath and accommodate development of the east-adjoining property.
2015 – Present	Based on the 2015 aerial photograph, development of the east-adjoining property is completed, and the Subject Property appears in its current configuration.

The majority of the Subject Property was part of Westchester Creek and the Baxter Creek Inlet (now the East River) before infilling and development of Ferry Point Park in the 1940s. During infilling, the Subject Property was backfilled with fill of unknown quality. As discussed in Section 2.2.2, the presence of non-native fill is considered a REC.

3.2 Regulatory Database Review

The Subject Property is identified in the NYC Land Use database. The NYC Land Use database listing relates to general information regarding the current zoning as a park and building class information for the Subject Property. No violations are reported in this database; therefore, the listing is not considered a REC.

3.3 Prior Report Review

Prior reports were not provided for review.

4. ADJOINING PROPERTIES AND SURROUNDING AREA

The following sections describe current and historical uses of and database listings for adjoining properties and the surrounding area.

4.1 Current Use of Adjoining Properties and Surrounding Area

The current use of adjoining and surrounding properties is summarized in Table 4-1.

Table 4-1 Current Use of Adjoining Properties and Surrounding Area

Direction	Adjoining Properties	Surrounding Area
North	Schley Avenue, Ferry Point Park, and Bronx-Whitestone Bridge MTA Building (492 Hutchinson River Parkway, Bronx, NY 10465)	Interstate 678, St. Raymond New Cemetery and commercial buildings
East	Bally's Golf Links at Ferry Point (500 Hutchinson River Parkway, Bronx, NY 10465)	Residential buildings
South	Bronx-Whitestone Bridge and Ferry Point Park (no address)	East River
West	Ferry Point Park (no address)	Westchester Creek

A diesel-fired generator was observed along the perimeter of Ring Road at the eastern adjoining property during the site reconnaissance. Langan did not observe indications of leaks or releases from the generator.

Langan did not observe obvious conditions likely to represent environmental concerns for the Subject Property from current uses of adjoining or surrounding properties.

4.2 Adjoining Properties and Surrounding Area History

Langan compiled the following summaries of the adjoining properties and surrounding area history based on a review of historical resources and interviews. Historical resources are provided in Appendix F.

Table 4-2 Historical Use of Adjoining Properties

Direction	Adjoining Properties
North	The northern-adjoining properties are depicted as undeveloped on topographic maps in the late 1800s. The 1924 aerial photograph shows that some of the properties are inundated and part of Westchester Creek. By 1947, topographic maps depict one of the northern-adjoining properties to be developed as part of the Bronx-Whitestone Bridge and associated toll plaza. Continued development through the late-1900s includes construction of an additional support facility for the Bronx-Whitestone Bridge, a warehouse along Schley Avenue, and several parking lots. Langan does not consider the historical uses of the northern-adjoining properties an environmental concern for the Subject Property.
East	The eastern-adjoining property is depicted as undeveloped on topographic maps and aerial photographs from the 1890s to 1920s. Based on aerial photographs, between the 1950s and 1960s, the east-adjoining property is part of landfilling operations that form the present-day shoreline. Limited road development on the eastern-adjoining property continues

Direction	Adjoining Properties
	through the 1990s, until the construction of the present-day golf course begins in the 2000s. The golf course was completed circa 2015. Landfilling operations are further discussed in Section 4.3.1.
South	The southern adjoining property is depicted as undeveloped on topographic maps and aerial photographs between the 1890s and 1920s. By 1947, the Bronx-Whitestone Bridge is constructed. The remaining property south of the Subject Property consists of Ferry Point Park and also includes landfilling operations described above, as further discussed in Section 4.3.1.
West	Based on topographic maps, the western-adjoining property was developed with a roadway as early as the late-1800s, and Sanborn maps show that this property is part of Ferry Point Park. Aerial photographs and Sanborn maps indicate limited development of the western-adjoining property, until about 1985, when an athletic field and additional park footpaths are constructed. This configuration is generally consistent with present day. Langan does not consider the historical use of the western-adjoining property an environmental concern for the Subject Property.

The surrounding area was depicted as mostly undeveloped and inundated in the topographic maps in the late 1800s and early 1900s. During the 1940s, the general area was infilled, and the Bronx-Whitestone Bridge was constructed on the southern-adjoining property. Supporting toll plaza and MTA structures were also erected north of the Subject Property during this time period. Landfilling operations took place on the eastern- and southern-adjoining properties between 1950 and the 1960s. Development related to Ferry Point Park operations continued east, south, and west of the Subject Property until the current configuration was achieved circa 2015. North of the Subject Property, commercial development continued through the 1990s, until the existing buildings were constructed.

Between 1950 and the 1960s, landfilling operations appear to take place on the eastern- and southern adjoining properties. Contaminants of concern on the eastern- and southern- adjoining properties include municipal solid waste and landfill gas (including methane) generated from the decomposition of residual landfill contents. Operations are further discussed in Section 4.3.1.

4.3 Regulatory Database Review

Langan reviewed the environmental database report to evaluate if adjoining or surrounding area properties identified in the database report are suspected to represent an environmental concern for the Subject Property (see Section 8.2). Unless discussed in Section 4.3.1 or 4.3.2 below, Langan did not consider the associated regulatory agency files potential RECs for the Subject Property.

4.3.1 Adjoining Properties

Database listings for adjoining properties are summarized as follows. Adjoining and nearby properties of concern are depicted on Figure 3 of Appendix A.

Ferry Point Park Recreational Facility – 500 Hutchinson River Parkway (eastern/southern-adjoining, inferred upgradient/cross-gradient)

This facility, also identified as "NYCP&R – Ferry Point Waterfront Park", "Ferry Point Golf Course", "Ferry Point Recreational Fac.", and "NYC Parks – Ferry Point Park", was identified on the PFAS Enforcement and Compliance History Online (ECHO), State Pollutant Discharge Elimination System (SPDES), Facility Index System (FINDS), ECHO, and NY Spills databases.

The area of Ferry Point Park east of the Whitestone Bridge was formerly used as a municipal solid waste landfill. In 2000, the NYSDEC issued a Part 360 Permit (Permit No. 2-6006-00014) to allow the import and placement of nonhazardous regulated fill and soil for the construction of the current the golf course. Golf course construction was completed by 2015. The PFAS ECHO, SPDES, FINDS, and ECHO listings are related to former landfill operations as well as golf course construction activities. The site is also identified as a Resource Conservation and Recovery Act (RCRA) – Large Quantity Generator (LQG) in 2009 for the disposal of 10.4 tons of lead waste. No violations were reported related to the database entries. Further information regarding operational use of PFAS was unavailable.

The NY Spills listing is related to NY Spill No. 0913675 and the release of about 5 gallons of diesel fuel in January 2010. According to the listing, a generator was overfilled, and diesel overflowed onto the surrounding ground affecting an approximately 20-foot-long by 10-foot-wide area. Impacted soil was excavated and disposed of, and the spill was closed on 25 March 2010.

Langan did not identify evidence of release of PFAS. However, given the reported history of a chemical release and operations as a municipal solid waste landfill, Langan cannot rule out the potential for PFAS and other contaminant impacts to soil and/or groundwater at the Subject Property from former operations at this eastern/southern-adjoining and inferred upgradient/cross-gradient facility. Therefore, this adjoining property is considered a REC.

Bronx-Whitestone Bridge Facility – 1 Hutchinson River Parkway (northern-adjoining, inferred cross-gradient)

This facility, also identified as "NYSDOT BIN 55211229 – Bronx Whitestone Bridge", and "Bronx Whitestone Bridge", and "Bronx Whitestone Bridge", was listed in the FINDS, NY Spills, UST, AST, Leaking Tanks (LTANKS), Manifest, UST Finder Release, and RCRA-LQG databases.

The UST, UST Finder Release, and AST listings are related to petroleum bulk storage at this facility. According to these databases and the NYSDEC Petroleum Bulk Storage Database (PBS) listing for the site (ID No. 2-481645), there have been 15 tanks at this facility. Four are currently listed in-service, and the remaining 11 tanks have been closed/removed. Tanks sizes range from 550 gallons to 20,000 gallons, and contents include diesel, No. 2 fuel oil, and gasoline. The active tanks include three USTs and one AST.

Several releases related to petroleum bulk storage are associated with this site. The following spills were reported for the site: 8807410, 9201985, 9303540, 9408139, 9501417, 9503672, 9601373, 9607895, 9801266, 9906022, and 0100477. Most of the spills are noted as the result of equipment failure; product releases include diesel, No. 2 fuel oil, ethylene glycol, and gasoline. Spill Nos. 9201985, 9501417, 9601373, 9801266 and 0100477 note impacts to groundwater. Each spill incident has been granted closed status by the NYSDEC, indicating that NYSDEC is satisfied with spill remediation; however, based on the frequency of releases from the facility, variety of products released, and causes of releases, residual contamination or unknown releases may have impacted subsurface conditions at the Subject Property.

The facility is listed in the RCRA generator databases for generation of corrosive-, ignitable-, benzene-, lead-, and mercury-hazardous-wastes. The facility has been listed as a LQG in 1989, 1992, 1994, 1995, 1998, 2001, 2002, 2004, 2006, 2007, 2010, 2012, 2018, and a Small Quantity Generator (SQG) in 2006. Manifests documenting waste disposal are available between 2011 and 2016. Several violations are listed during operations, including compliance evaluation-inspection-, general-generator-, and pre-transport-violations. Undocumented spills or releases of solvents or other hazardous substances associated with operations may have migrated and adversely affected groundwater, and/or soil vapor on the Subject Property.

Petroleum bulk storage, documented releases, and potential releases of solvents or other hazardous substances associated with operations at this adjoining property are considered a REC.

Manhole 15002 – 80 North Hutchinson River Parkway (western adjoining, inferred upgradient)

This facility was identified in the NY Spills database under Spill No. 1000322. The spill was reported on 8 April 2010 for the release of 25 gallons of dielectric cable fluid from a Con Edison pole-mounted transformer onto the adjoining sidewalk and soil. The spill was remediated and subsequently closed on 22 April 2010.

Similar listings are noted for several Con Edison structures surrounding the Subject Property. Con Edison maintains an internal protocol for managing hazardous substances, and none of the database listings indicate open spills or violations for these facilities; therefore, the listings are not considered RECs.

MTA Bridges & Tunnels (BWB) (southern adjoining, inferred cross-gradient)

This facility, also identified as "Whitestone Bridge BX", and "Whitestone Bridge", is listed in the NY Spills, LTANKS, RCRA –SQG, and Manifest databases. The facility is listed in the RCRA generator databases for generation of ignitable-, benzene-, and lead-hazardous-wastes. The facility is listed as a SQG in 2007. Manifests documenting waste disposal are available between 2011 and 2016. No violations were reported for this facility.

Whitestone Bridge BX is listed in the LTANKS database under Spill No. 8912020. The spill was reported on 19 March 1990 when a commercial vehicle pulled off-road and spilled oil from its saddle tank into a drain. FDNY hosed spillage into the drain and the spill was closed on the same day.

The NY Spills database listing is related to Spill No. 0011525, reported on 25 January 2001. The spill was caused by the release of 1 pint of dielectric fluid onto the floor of a Con Edison vault. The spill was remediated and subsequently closed 1 June 2001.

Based on the lack of violations and closed status of the above listings, this facility is not considered a REC.

4.3.2 Surrounding Area

Langan evaluated each of the database listings for surrounding area properties (see Section 8.2). Those warranting further discussion in the context of potential to represent an environmental concern for the Subject Property are discussed below.

Vault #2232 – 555 Hutchinson River Parkway (approximately 0.08 miles north, inferred cross-gradient)

This facility is listed in the AST and NY Spills databases. According to the AST listing, there is one 6,000-gallon No. 2 fuel oil storage tank at the property used for on-site consumption. The tank reportedly rests on soil, allowing for no visual inspection; however, there are no reported releases related to this tank system.

The site is listed in the NY Spills database under Spill No. 0813834, which is related to equipment failure within a Con Edison vault adjacent to the building located at 555 Hutchinson River Parkway. About 5 gallons of transformer oil was released into the vault on 23 March 2009. The spill was remediated, and the spill number was closed on 8 June 2009.

Based on the lack of reported releases or closed status of the above listings, this facility is not considered a REC.

United Parcel Service (UPS) – 545 Brush Avenue (approximately 0.13 miles north, inferred cross-gradient)

This facility is listed in the LTANKS, RCRA-SQG, Chemical Bulk Storage (CBS) AST, E Manifest, Manifest, Tanks, SPDES, AST, UST, UST Finder, NY Spills, and CBS databases.

The following NY Spill Numbers are associated with the facility: 8909242, 8908245, 9307821, 9507165, 1807344, and 2207848. Most of the spills are noted as the result of equipment failure, and product releases include diesel, unknown petroleum, gasoline, and unknown material. Spill Nos. 8908245 and 9507165 note impacts to groundwater. With the exception of Spill No. 2207848, each spill incident has been granted closed status by the NYSDEC, indicating that NYSDEC is satisfied with spill remediation; however, based on the frequency of releases from the facility, variety of products released, and causes of releases, residual contamination or unknown releases may have impacted subsurface conditions at the Subject Property.

Spill No. 2207848, reported on 21 December 2022, is related to a punctured saddle tank that spilled 20 gallons of diesel to the road adjoining the facility. Spill closure is still pending.

The facility is listed in the RCRA generator databases for generation of ignitable-, corrosive-, reactive-, chromium-, silver-, benzene-, carbon-tetrachloride-, chlorobenzene-, cresol-, 1,2-dichloroethane-, methyl-ethyl-ketone-, tetrachloroethylene-, undefined-, nicotine-, salts-, dichloro-methane-, acetic-acid-, formaldehyde-, hydrofluoric-acid-, methanol-, 2-propenoic-acid-, furan-, and ester-hazardous-wastes. The facility has been listed as a Conditionally Exempt Small Quantity Generator (CESQG) in 1995, 2006, and a SQG in 1990, 2007, and 2022. There are fourteen violations recorded for this facility. Undocumented spills or releases of solvents or other hazardous substances associated with operations may have migrated and adversely affected groundwater, and/or soil vapor on the Subject Property.

The facility is listed in the CBS AST database for active chemical-bulk storage, including two 200-gallon ethylene glycol storage tanks. Based on the aforementioned documented releases, chemical-bulk storage at this facility poses an environmental concern for the Subject Property.

Chemical bulk storage, documented releases, and potential releases of petroleum products, chemicals, or other hazardous substances associated with this surrounding property may have adversely affected groundwater, and/or soil vapor on the Subject Property; therefore, this site is a REC.

5. CONCLUSIONS, FINDINGS AND OPINIONS

Langan completed a Phase I ESA consistent with the scope and limitations of ASTM E1527-21 for the Subject Property, referred to as Ring Road, located within Ferry Point Park, Bronx, New York. Exceptions to, or deletions from, ASTM E1527-21 are described in Section 8 of this report.

This assessment has revealed the following RECs in connection with the Subject Property as presented in Table 5-1.

Table 5-1 Conclusions, Findings and Opinions

ASTM E1527-21 Scope Items
Recognized Environmental Conditions (RECs)
Current and Historical Use of the Adjoining and Surrounding Properties: Historical adjoining and surrounding property use includes a municipal solid waste landfill (1950-1960s), a UPS facility with petroleum and chemical bulk storage (1985 - present), and a MTA bridge support facility with petroleum bulk storage (1951 - present). Documented and undocumented spills or releases of petroleum products or hazardous substances associated with these properties may have adversely affected groundwater and/or soil vapor on the Subject Property. *Non-native Fill:* Non-native fill is expected to underly the site above native soil. Non-native fill in New York City may contain contaminants, particularly metals and SVOCs, at concentrations that exceed applicable state and/or federal standards. Non-native fill does not trigger a regulatory reporting requirement, but may require implementation of special soil handling, management, and off-site disposal procedures if disturbed during development of the Subject Property.
Controlled Recognized Environmental Conditions (CRECs)
Langan did not identify CRECs.
Historical Recognized Environmental Conditions (HRECs)
Langan did not identify HRECs.
De Minimis Conditions
Langan did not identify de minimis conditions.
Significant Data Gaps
Langan did not identify significant data gaps.
Non-ASTM E1527-21 Scope Items
Business Environmental Risks (BERs)
Langan did not identify any BERs.

6. ENVIRONMENTAL PROFESSIONAL STATEMENT

I declare that to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR Part 312 and I have the specific qualifications based on my education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Brian Gochenaur, QEP
Associate Principal/Vice President (Environmental Professional)

Resumes outlining the qualifications of the project team and the Environmental Professional are included in Appendix G.

7. REFERENCES

Langan used the following sources to complete this Phase I ESA.

- ASTM E1527-21, Standard Practice for Environmental Property Assessments: Phase I Environmental Property Assessment Process, published 16 November 2021
- City Online Register, https://a836-acris.nyc.gov/DS/DocumentSearch/Index searched 7 August 2024
- Department of Environmental Conservation Bulk Storage Database Search, http://www.dec.ny.gov/cfmx/extapps/derexternal/index.cfm?pageid=4, searched 7 August 2024
- Department of Environmental Conservation Spills Incidents Database Search, http://www.dec.ny.gov/cfmx/extapps/derexternal/index.cfm?pageid=2, searched 7 August 2024
- EDR, Inc., Radius Map Report with GeoCheck, 29 July 2024
- EDR, Inc., City Directory Image Report, 30 July 2024
- EDR, Inc., Aerial Photographs, 30 July 2024
- EDR, Inc., Historical Topographic Map Report, 29 July 2024
- EDR, Inc., Sanborn Map Report, 31 July 2024
- New York City Department of Buildings, Building Information System, http://a810-bisweb.nyc.gov/bisweb/bsqpm01.jsp searched 7 August 2024
- New York City Planning Commission, New York City's Zoning & Land Use Map, https://zola.planning.nyc.gov/about#9.72/40.7125/-73.733, searched 7 August 2024
- PFAS Exchange GIS Webviewer, https://experience.arcgis.com/experience/12412ab41b3141598e0bb48523a7c940/
- US EPA 40 CFR Part 302 (EPA-HQ-OLEM-2019-0341; FRL-7204-03-OLEM), RIN 2050-AH09, Designation of PFOA and PFOS as CERCLA Hazardous Substances, Final Rule, 8 May 2024
- US EPA ECHO database: http://echo.epa.gov/facilities searched 9 August 2024
- US EPA ECHO: PFAS Analytic Tools - https://echo.epa.gov/trends/pfas-tools
- US EPA ENVIROFACTS database: https://www3.epa.gov/enviro/ searched 9 August 2024
- US EPA MyProperty database: https://www3.epa.gov/enviro/facts/myproperty/ searched 9 August 2024
- United States Geological Survey, Baskerville, C.A., 1994; Bedrock and engineering geologic maps of New York County and parts of Kings and Queens Counties, New York, and parts of Bergen and Hudson Counties, New Jersey

Table 7-1 Dates of Assessment Components

COMPONENT	DATE
Interviews	8/15/2024
Review of government records	7/30/2024
Site reconnaissance	8/9/2024
Declaration by Environmental Professional	9/12/2024

8. LIMITATIONS AND DEFINITIONS

This Phase I ESA report was prepared for Client and is intended to be used in its entirety. Excerpts taken from this report are not necessarily representative of the assessment findings. The Client is the sole intended beneficiary of the report. The user requested no special terms or conditions regarding this Phase I ESA.

Langan's scope of services, which is described in Section 1.2 and in the contract executed between Langan and the Client, was limited to that agreed to with the Client/user and no other services beyond those explicitly stated are implied. To the extent possible, the services performed and agreed upon for this Phase I ESA are consistent with the guidelines of ASTM E1527-21.

This report is not intended to be an exhaustive assessment of the Subject Property. The purpose of the Phase I ESA is to reduce uncertainty about unknown conditions at the Subject Property. No environmental site assessment can wholly eliminate uncertainty regarding the potential for RECs in connection with a Subject Property. Therefore, Langan cannot "verify", "insure", "certify", or "guarantee" that the Subject Property is free of environmental concerns.

No expressed or implied representation or warranty is included or intended in this report, except that our services were completed using the care and skill ordinarily followed by professionals providing similar services under similar circumstances in similar locations at the same point in time.

The conclusions provided in this report are based solely on information obtained through completing the standard activities required by ASTM E1527-21 and are intended exclusively for the purpose stated herein, at the specified Subject Property, as it existed at the point in time the assessment was completed. The conclusions provided in this report do not apply to conditions and features of which Langan was not made aware of through good faith efforts to complete the activities required by ASTM E1527-21 and did not have the opportunity to evaluate.

8.1 ASTM Definitions

The following definitions are provided in ASTM E1527-21 and presented below for reference. This section is not a comprehensive list of definitions provided in ASTM E1527-21 and is intended to summarize those pertinent to this Phase I ESA report.

Activity and use limitations (AULs): legal or physical restrictions or limitations on the use of, or access to, a site or facility: (1) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil, soil vapor, groundwater, and/or surface water on the property, or (2) to prevent activities that could interfere with the effective-ness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or engineering controls, are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products in the soil, soil vapor, groundwater, and/or surface water on a property.

Adjoining properties: any real property or properties the border of which is contiguous or partially contiguous with that of the Subject Property, or that would be contiguous or partially contiguous with that of the Subject Property but for a street, road, or other public thoroughfare separating them.

All Appropriate Inquiries: that inquiry constituting all appropriate inquiries into the previous ownership and uses of the Subject Property consistent with good commercial and customary practice as defined in CERCLA, 42 U.S.C.§ 9601(35)(B) and 40 C.F.R. Part 312, that will qualify a party to a commercial real estate transaction for one of the threshold criteria for satisfying the LLPs to CERCLA liability (42U.S.C. §§ 9601(35)(A) & (B), § 9607(b)(3), § 9607(q), and§ 9607(r)), assuming compliance with other elements of the defense.

Approximate minimum search distance: the area for which records must be obtained and reviewed pursuant to ASTM E1527-21 Section 8 subject to the limitations provided in that section. This may include areas outside the Subject Property and shall be measured from the nearest Subject Property boundary. This term is used in lieu of radius to include irregularly shaped properties.

Business environmental risk (BER): a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of commercial real estate, not necessarily related to those environmental issues required to be investigated in this practice. Consideration of BER issues may involve addressing one or more non-scope considerations.

Controlled recognized environmental condition (CREC): recognized environmental condition affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations).

Data gap: a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to, site reconnaissance (for example, an inability to conduct the site visit), and interviews (for example, an inability to interview the key site manager, regulatory officials, etc.).

De minimis condition: a condition related to a release that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A condition determined to be a de minimis condition is not a recognized environmental condition nor a controlled recognized environmental condition.

Engineering controls: physical modifications to a site or facility (for example, capping, slurry walls, or point of use water treatment) to reduce or eliminate the potential for exposure to hazardous substances or petroleum products in the soil or groundwater on a property. Engineering controls are a type of activity and use limitation (AUL).

Environment: environment shall have the same meaning as the definition of environment in CERCLA 42 U.S.C. § 9601(8).

Historical recognized environmental condition (HREC): previous release of hazardous substances or petroleum products affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the Subject Property to any controls (for example, activity and use limitations or other property use limitations). A historical recognized environmental condition is not a recognized environmental condition.

Institutional controls (IC): a legal or administrative mechanism (for example, "deed restrictions," restrictive covenants, easements, or zoning) on the use of, or access to, a site or facility to (1) reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or groundwater on the property, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. An institutional control is a type of activity and use limitation (AUL).

Key site manager: the person identified by the owner or operator of a Subject Property as having good knowledge of the uses and physical characteristics of the Subject Property.

Material threat: obvious threat which is likely to lead to a release and that, in the opinion of the environmental professional, would likely result in impact to public health or the environment.

Obvious: that which is plain or evident; a condition or fact that could not be ignored or overlooked by a reasonable observer.

Property use limitation: limitation or restriction on current or future use of a property in connection with a response to a release, in accordance with the applicable regulatory authority or authorities that allows hazardous sub-stances or petroleum products to remain in place at concentrations exceeding unrestricted use criteria.

Reasonably ascertainable: information that is (1) publicly available, (2) obtainable from its source within reasonable time and cost constraints, and (3) practically reviewable.

Recognized environmental conditions: (1) the presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the Subject Property under conditions that pose a material threat of a future release to the environment. For the purposes of this definition, "likely" is that which is neither certain nor proved, but can be expected or believed by a reasonable observer based on the logic and/or experience of the environmental professional, and/or available evidence, as stated in the report to support the opinions given therein.

Release: a release of any hazardous substance or petroleum product shall have the same meaning as the definition of "release" in CERCLA 42 U.S.C. § 9601(22). There are a number of statutory exclusions from the definition of release that may impact the environmental professional's opinions and conclusions, such as the normal application of fertilizer.

Significant data gap: a data gap that affects the ability of the environmental professional to identify a recognized environmental condition.

Site reconnaissance: that part that is contained in Section 9 of ASTM E1527-21 and addresses what should be done in connection with the site visit. The site reconnaissance includes, but is not limited to, the site visit done in connection with such a Phase I Environmental Site Assessment.

Site visit: the visit of the Subject Property during which observations are made constituting the site reconnaissance section of this practice.

Subject property: the property that is the subject of the environmental site assessment described in this practice.

User: the party seeking to use ASTM E1527-21 to complete an environmental site assessment of the Subject Property.

8.2 Standard Environmental Record Sources

Langan reviewed an environmental database search report prepared by an environmental database search provider for the Subject Property and surrounding area. The database search report includes a listing of properties identified on select federal, state, local and tribal standard source environmental databases within the approximate minimum search radii outlined in ASTM E1527-21. This information was supplied to Langan by the environmental database search provider, and to the environmental database search provider by government sources; therefore, neither Langan nor the environmental database search provider can verify the completeness and accuracy of the database information. Appendix E contains a copy of the report, with specific source and property descriptions, and the dates of the last update for each database searched. Langan reviewed the database search report on a record-by-record basis to evaluate if certain properties identified in the database report are likely to represent an environmental concern for the Subject Property. The evaluation criteria included factors such as distance, groundwater gradient, nature of the listing, and regulatory status. Unless specifically discussed in the body of this report, the facilities listed on the database do not appear to represent an environmental concern to the Subject Property.

Appendix A Figures

LANGAN

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

360 West 31st Street, 8th Floor
New York, NY 10001-2727

T: 212.479.5400 F: 212.479.5444
www.langan.com

Project	Figure Title	Project No.	Figure
PROPOSED BALLY'S CASINO – RING ROAD AT FERRY POINT PARK BRONX NEW YORK	SUBJECT PROPERTY LOCATION MAP	170773001 Date 8/9/2024 Scale 1" = 2,000 feet Drawn By MG	1

© 2023 Langan

Path: \\langan.com\data\NYC\data0\170773001\Project Data\ArcGIS\APRX\170773001\170773001.aprx

Notes:
1. Imagery provided through Langan's subscription to Nearmap.com. Flown on 06/16/24.
2. All locations of Site reconnaissance observations are approximate.

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Project	Figure Title	Project No.	Figure
PROPOSED BALLY'S CASINO – RING ROAD AT FERRY POINT PARK BRONX NEW YORK	SUBJECT PROPERTY LAYOUT	170773001	2
		Date 8/15/2024	
		Scale 1" = 300 feet	
		Drawn By MG	

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Path: \\langan.com\data\NYC\data0\170773001\Project Data\ArcGIS\APRX\170773001\170773001.aprx

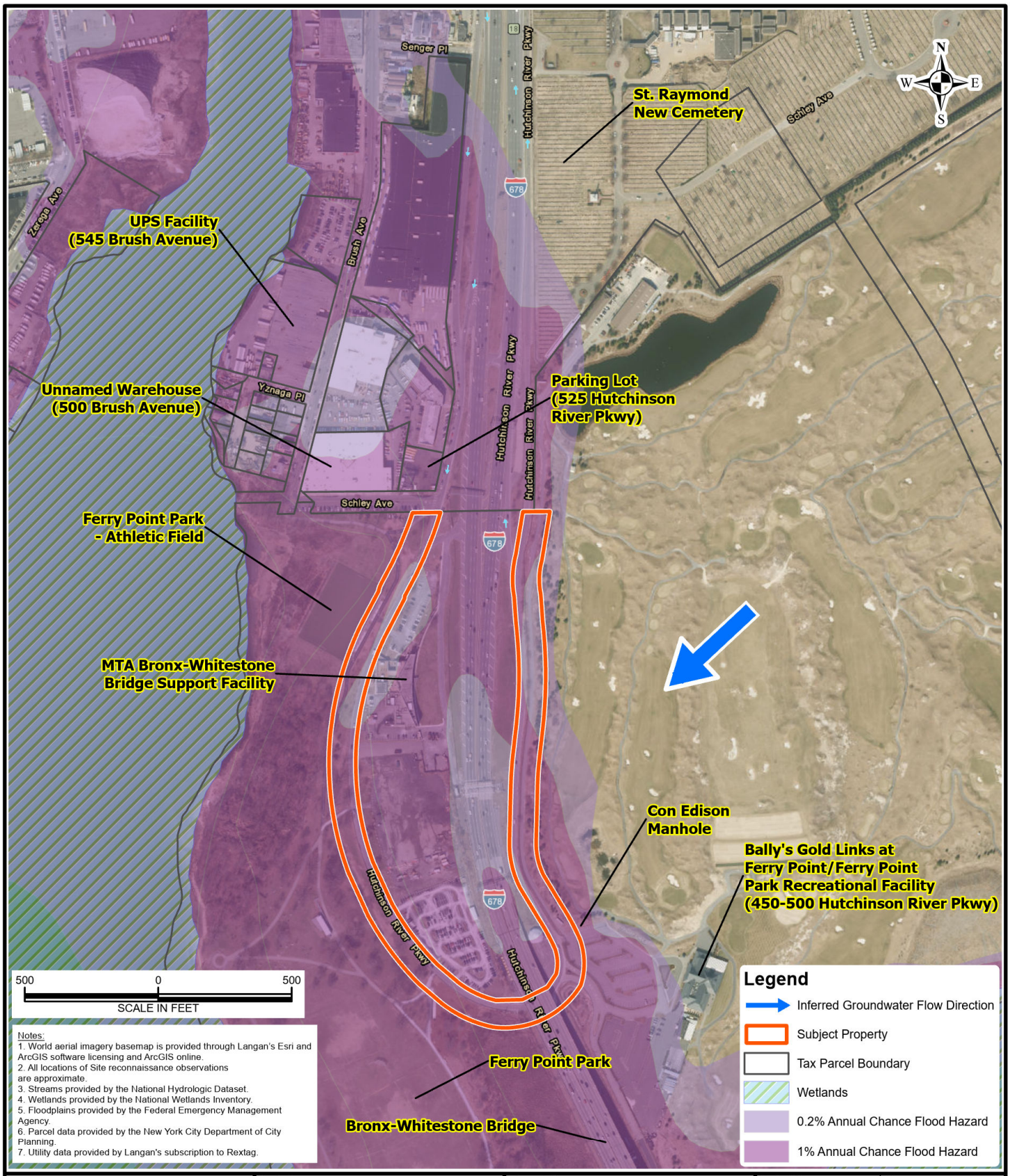

Notes:
1. World aerial imagery basemap is provided through Langan's Esri and ArcGIS software licensing and ArcGIS online.
2. All locations of Site reconnaissance observations are approximate.
3. Streams provided by the National Hydrologic Dataset.
4. Wetlands provided by the National Wetlands Inventory.
5. Floodplains provided by the Federal Emergency Management Agency.
6. Parcel data provided by the New York City Department of City Planning.
7. Utility data provided by Langan's subscription to Rextag.

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Project	Figure Title	Project No.	Figure
PROPOSED BALLY'S CASINO – RING ROAD AT FERRY POINT PARK BRONX NEW YORK	NEARBY PROPERTIES MAP	170773001	3
		Date: 9/10/2024	
		Scale: 1" = 500 feet	
		Drawn By: MG	

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Appendix B Agency Records and Other Reports

Kaitlyn Gioia

From: donotreply@records.nyc.gov
Sent: Wednesday, August 7, 2024 2:44 PM
To: Kaitlyn Gioia
Subject: [External] [OpenRecords] Request FOIL-2024-826-03671 Submitted to Department of Environmental Protection (DEP)

Your request FOIL-2024-826-03671 has been successfully submitted to the Department of Environmental Protection (DEP). The details of your request are shown below.

Request Title: Environmental Conditions

Request Description: Re: Freedom of Information Request 450 Hutchinson River Parkway Block 5622, Lot 1 Bronx, New York Langan Project No. 170773001 Dear Sir or Madam: Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting any information or copies of files regarding environmental conditions on the above property, such as environmental permits, notices of violations, spill/discharge incidents, storage or disposal of hazardous substances, Underground Storage Tanks (USTs), Leaking Underground Storage Tanks (LTANKs), asbestos abatement, and any other environmental reports that your department may have. The Subject Property is located at 450 Hutchinson River Parkway in the Bronx, New York and is identified as Tax Block 5622, Lot 1. The site is located entirely within Ferry Point Park and is bisected by Hutchinson River Expressway. Please contact me at 212-479-5531 with any questions or send your response to my attention at kgioia@langan.com or at the below address: Langan Engineering and Environmental Services, P.C. 21 Penn Plaza 360 West 31st Street, 8th floor New York, New York 10001-2727 Thank you in advance for your cooperation. Sincerely, Langan Engineering, Environmental, Surveying Landscape Architecture, and Geology, D.P.C. Kaitlyn Gioia Senior Staff Scientist

Requester's Contact Information

Name:
Kaitlyn Gioia
Title:
Senior Staff Scientist
Organization:
Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology, D.P.C.
Email:
kgioia@langan.com
Phone Number:
(212) 479-5531
Fax Number:
Not provided
Street Address (line 1):
360 West 31st Street, 8th Floor
Street Address (line 2):
Not provided
City:
New York
State:
NY
Zip Code:
10001

You can view the request and take any necessary action at the following webpage: https://a860-openrecords.nyc.gov/request/view/FOIL-2024-826-03671.

Kaitlyn Gioia

From: donotreply@records.nyc.gov
Sent: Friday, August 9, 2024 6:13 AM
To: Kaitlyn Gioia
Subject: [External] [OpenRecords] Request FOIL-2024-826-03671 Acknowledged

The Department of Environmental Protection (DEP) has **acknowledged** your FOIL request FOIL-2024-826-03671.

You can expect a response on or about Tuesday, November 12, 2024.

Please visit FOIL-2024-826-03671 to view additional information and take any necessary action.

Kaitlyn Gioia

From: donotreply@records.nyc.gov
Sent: Monday, August 12, 2024 11:30 AM
To: Kaitlyn Gioia
Subject: [External] [OpenRecords] Request FOIL-2024-826-03671 Closed

The Department of Environmental Protection (DEP) has **closed** your FOIL request FOIL-2024-826-03671 for the following reasons:

- A diligent search for records responsive to your request did not locate any such records. Accordingly, your request is denied.

You may appeal the decision to deny access to material that was redacted in part or withheld in entirety by contacting the agency's FOIL Appeals Officer: foilappeals@dep.nyc.gov within 30 days.

Kaitlyn Gioia

From: recordsaccess <recordsaccess@health.nyc.gov>
Sent: Thursday, August 8, 2024 2:32 PM
To: Philip Lynch
Cc: Kaitlyn Gioia
Subject: [External] Re: [EXTERNAL] 450 Hutchinson River Parkway, Block 5622, Lot 1, Bronx, NY

Dear Philip Lynch

The NYC Department of Health and Mental Hygiene is retuning your Freedom of Information Law request with the instructions for resubmitting it below. Please follow the instructions and we will be able to process the request. If you have any questions about these instructions, please contact the Records Access Officer at bodonnell1@health.nyc.gov

Phase I Environmental Site Assessment (ESA) Records
All data related to indoor environmental complaints is here. Before submitting a FOIL request for Environmental Site Assessment records, you must check this database to see if the site you are investigating has any entries.

1. If your site has no entries, then we have no indoor environmental complaint records and your ESA FOIL request should ***only*** concern well sites. Please see below for information on accessing other records that may be relevant to your ESA investigation.

2. If your site does have an entry or entries, you will need to provide the date(s) of the indoor environmental complaint(s) for us to locate the related records.

3. ***The Department will not process any ESA FOIL requests without the information required above.***

The following are some common environmental issues that are addressed by *other agencies* that may be relevant to your ESA investigation:

- Chemical spills that impact outdoor areas – NYS Department of Environmental Conservation (NYS DEC), NYS Department of Health, and NYC Department of Environmental Protection (NYC DEP)
- Underground storage tanks – NYS DEC and NYC DEP
- Community air impacts – NYC DEP
- Sewers – NYC DEP
- Environmental impacts to parkland – NYC Parks Department

Please contact these agencies for records. For other NYC agencies, you can submit FOIL requests here

Thank you,

FOIL Administration
Office of the General Counsel
NYC Department of Health and Mental Hygiene - City of New York
42-09 28th St.,CN30, Long Island City, NY 11101

Telephone:347-396-6116 **Fax:**347-396-6087
Email: recordsaccess@health.nyc.gov | nyc.gov/health

From: Philip Lynch <plynch@Langan.com>
Sent: Wednesday, August 7, 2024 4:56 PM
To: recordsaccess <recordsaccess@health.nyc.gov>
Cc: Kaitlyn Gioia <kgioia@langan.com>
Subject: [EXTERNAL] 450 Hutchinson River Parkway, Block 5622, Lot 1, Bronx, NY

Re: Freedom of Information Request
450 Hutchinson River Parkway
Block 5622, Lot 1
Bronx, New York
Langan Project No. 170773001

Dear Sir or Madam:

Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting any information or copies of files regarding environmental conditions on the above property, such as environmental permits, notices of violations, spill/discharge incidents, storage or disposal of hazardous substances, Underground Storage Tanks (USTs), Leaking Underground Storage Tanks (LTANKs), asbestos abatement, and any other environmental reports that your department may have. There are no listings in the database for this site. Therefore, we are looking for information on whether it is a well site.

The Subject Property is located at **450 Hutchinson River Parkway** in the **Bronx, New York** and is identified as Tax **Block 5622, Lot 1**. The site is located entirely within Ferry Point Park and is bisected by Hutchinson River Expressway.

Please contact me at 212-479-5531 with any questions or send your response to my attention at kgioia@langan.com or at the below address:

Langan Engineering and Environmental Services, P.C.
21 Penn Plaza
360 West 31st Street, 8th floor
New York, New York 10001-2727

Thank you in advance for your cooperation.

Sincerely,

Langan Engineering, Environmental, Surveying
Landscape Architecture, and Geology, D.P.C.

Kaitlyn Gioia
Senior Staff Scientist

Philip Lynch
Administrative Assistant

LANGAN

Direct: 212.479.5469

Mobile: 914.882.2582
File Sharing Link

Phone: 212.479.5400 Fax: 212.479.5444
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New York, NY 10001-2727
www.langan.com

NEW YORK NEW JERSEY CONNECTICUT MASSACHUSETTS PENNSYLVANIA VIRGINIA WASHINGTON, DC
OHIO ILLINOIS NORTH CAROLINA TENNESSEE FLORIDA TEXAS ARIZONA COLORADO UTAH WASHINGTON CALIFORNIA
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Kaitlyn Gioia

From: recordsaccess <recordsaccess@health.nyc.gov>
Sent: Tuesday, August 13, 2024 1:44 PM
To: Kaitlyn Gioia; Philip Lynch
Subject: [External] FOIL Control #: 2024FR01115

FOIL Control #: 2024FR01115

Dear Kaitlyn Gioia

The NYC Department of Health and Mental Hygiene (DOHMH) acknowledges receipt of your Freedom of Information Law request. It has been assigned the above-noted control number and has been forwarded to the following bureau for processing:

Environmental Health Services
Sheba Taylor-Medina, e-mail: staylor2@health.nyc.gov

You should receive a response from the program/bureau within twenty(20) business days. Please note that as of January 1, 2019, the Department charges the statutorily allowable fee of 25¢ per page for FOIL responses of records maintained in hard copy format only. You will be advised by the program/bureau of the fee that is due and, upon receipt of your payment by check or money order, the copies will be forwarded to you.
All inquiries about the status of your request should be made with the program/bureau and control number noted above.

Thank you,

FOIL Administration
Office of the General Counsel
NYC Department of Health and Mental Hygiene - City of New York
42-09 28th St.,CN30, Long Island City, NY 11101
Telephone:347-396-6116 **Fax:**347-396-6087
Email: recordsaccess@health.nyc.gov | nyc.gov/health

From: Kaitlyn Gioia <kgioia@langan.com>
Sent: Monday, August 12, 2024 9:30 AM
To: recordsaccess <recordsaccess@health.nyc.gov>; Philip Lynch <plynch@Langan.com>
Subject: RE: [EXTERNAL] 450 Hutchinson River Parkway, Block 5622, Lot 1, Bronx, NY

Good morning FOIL Administration team,

To clarify our request below, there are no listings in the database for this site. Therefore, we are looking for information on whether it is a well site. Let me know if you need any additional information to process this request.

Thank you!

Kaitlyn Gioia
Senior Staff Scientist

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OHIO ILLINOIS NORTH CAROLINA TENNESSEE FLORIDA TEXAS ARIZONA COLORADO UTAH WASHINGTON CALIFORNIA
ATHENS CALGARY DUBAI LONDON PANAMA

From: recordsaccess <recordsaccess@health.nyc.gov>
Sent: Thursday, August 8, 2024 2:32 PM
To: Philip Lynch <plynch@Langan.com>
Cc: Kaitlyn Gioia <kgioia@langan.com>
Subject: [External] Re: [EXTERNAL] 450 Hutchinson River Parkway, Block 5622, Lot 1, Bronx, NY

Dear Philip Lynch

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2. If your site does have an entry or entries, you will need to provide the date(s) of the indoor environmental complaint(s) for us to locate the related records.

3. ***The Department will not process any ESA FOIL requests without the information required above.***

The following are some common environmental issues that are addressed by *other agencies* that may be relevant to your ESA investigation:

- Chemical spills that impact outdoor areas – NYS Department of Environmental Conservation (NYS DEC), NYS Department of Health, and NYC Department of Environmental Protection (NYC DEP)
- Underground storage tanks – NYS DEC and NYC DEP
- Community air impacts – NYC DEP
- Sewers – NYC DEP
- Environmental impacts to parkland – NYC Parks Department

Please contact these agencies for records. For other NYC agencies, you can submit FOIL requests here

Thank you,

FOIL Administration
Office of the General Counsel
NYC Department of Health and Mental Hygiene - City of New York
42-09 28th St.,CN30, Long Island City, NY 11101
Telephone:347-396-6116 **Fax:**347-396-6087
Email: recordsaccess@health.nyc.gov | nyc.gov/health

From: Philip Lynch <plynch@Langan.com>
Sent: Wednesday, August 7, 2024 4:56 PM
To: recordsaccess <recordsaccess@health.nyc.gov>
Cc: Kaitlyn Gioia <kgioia@langan.com>
Subject: [EXTERNAL] 450 Hutchinson River Parkway, Block 5622, Lot 1, Bronx, NY

Re: Freedom of Information Request
450 Hutchinson River Parkway
Block 5622, Lot 1
Bronx, New York
Langan Project No. 170773001

Dear Sir or Madam:

Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting any information or copies of files regarding environmental conditions on the above property, such as environmental permits, notices of violations, spill/discharge incidents, storage or disposal of hazardous substances, Underground Storage Tanks (USTs), Leaking Underground Storage Tanks (LTANKs), asbestos abatement, and any other environmental reports that your department may have. There are no listings in the database for this site. Therefore, we are looking for information on whether it is a well site.

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Please contact me at 212-479-5531 with any questions or send your response to my attention at kgioia@langan.com or at the below address:

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21 Penn Plaza
360 West 31st Street, 8th floor
New York, New York 10001-2727

Thank you in advance for your cooperation.

Sincerely,

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Appendix C Site Reconnaissance Checklist and Photographs

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PHASE I ESA SITE RECONNAISSANCE CHECKLIST

GENERAL INFORMATION
Langan personnel: Kaitlyn Gioia
Date of site reconnaissance: August 9, 2024
Business name / subject property occupant: Ferry Point Park – Ring Road
Full subject property address: 450 Hutchinson River Parkway, Bronx, NY
Weather conditions: ~80°F - Rainy

Features, Activities, Uses, and Conditions	Identified/Observed?		Report Section(s)
General Subject Property Setting	**Yes**	**No**	
Current use(s) of the subject property	☒	☐	2.0
Past use(s) of the subject property	☐	☒	3.1
Current use(s) of adjoining properties	☒	☐	4.1
Past use(s) of adjoining properties	☐	☒	4.2
Current or past uses in the surrounding area	☒	☐	4.1 and 4.2
Geologic, hydrogeologic, hydrologic, and topographic conditions	☒	☐	2.2
Structures and other improvements at the subject property	☒	☐	2.3
Roads	☒	☐	2.3
Potable water supply/source for the subject property	☒	☐	2.4
Sewage disposal system for the subject property	☐	☒	2.4

Interior/Exterior Features	At Interior?		At Exterior?		Report Section(s) (if yes)
	Yes	**No**	**Yes**	**No**	
Hazardous substances and petroleum products in connection with identified uses	☐	☒	☐	☒	2.5
Storage tanks	☐	☒	☐	☒	2.5.1 and 2.5.2
Strong, pungent, or noxious odors and their sources	☐	☒	☐	☒	2.6
Standing surface water and pools or sumps containing liquids likely to be hazardous substances or petroleum products	☐	☒	☐	☒	2.5
Drums, totes, and intermediate bulk containers	☐	☒	☐	☒	2.5.3
Hazardous substance and petroleum product containers not in connection with identified uses	☐	☒	☐	☒	2.5.4
Unidentified substance containers	☐	☒	☐	☒	2.5.4
PCB-containing items	☐	☒	☐	☒	2.5.4
Heating/cooling	☐	☒	☐	☒	2.4
Stains or corrosion on floors, walls, or ceilings	☐	☒	☐	☒	2.5 and 2.7
Drains and sumps	☐	☒	☒	☐	2.8
Pits, ponds, or lagoons	☐	☒	☐	☒	2.2.3
Stained soil or pavement	☐	☒	☐	☒	2.5 and 2.7
Stressed vegetation	☐	☒	☐	☒	2.9
Solid waste	☐	☒	☐	☒	2.7
Water/wastewater	☐	☒	☐	☒	2.8 and 2.9
Wells	☐	☒	☐	☒	2.2.3
Septic systems or cesspools	☐	☒	☐	☒	2.8

LANGAN

Site Reconnaissance Photographs

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	1

Direction Photo Taken:

South

Description:

Entrance to subject property.

Date	Photo No.
8/9/2024	2

Direction Photo Taken:

Northeast

Description:

Pedestrian walkways and guardrails throughout the subject property.

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	3

Direction Photo Taken:

Southeast

Description:

General view of the western leg of the subject property.

Date	Photo No.
8/9/2024	4

Direction Photo Taken:

East

Description:

Pedestrian walkway and adjoining parking field for Ferry Point Park.

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	5

Direction Photo Taken:

Northeast

Description:

Representative view of hydrants located throughout the subject property.

Date	Photo No.
8/9/2024	6

Direction Photo Taken:

Northeast

Description:

General view of the eastern leg of the subject property.

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	7

Direction Photo Taken:

South

Description:

Exit from the subject property.

Date	Photo No.
8/9/2024	8

Direction Photo Taken:

Northeast

Description:

Representative view of drainage structures and NYCDEP infrastructure throughout the subject property.

Date	Photo No.
8/9/2024	9

Direction Photo Taken:

Southeast, down

Description:

Representative view of 1-inch-diameter holes adjacent to the metal guardrail throughout the eastern leg of the subject property.

Date	Photo No.
8/9/2024	10

Direction Photo Taken:

East

Description:

Adjoining Bronx-Whitestone Bridge and parking field for Ferry Point Park.

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	11

Direction Photo Taken:

Northeast

Description:

Adjoining Con Edison structures.

Date	Photo No.
8/9/2024	12

Direction Photo Taken:

Northwest

Description:

Adjoining Interstate 678.

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	13

Direction Photo Taken:

East

Description:

Adjoining parking field for Ferry Point Park.

Date	Photo No.
8/9/2024	14

Direction Photo Taken:

West

Description:

Bronx-Whitestone Bridge MTA Building

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	15

Direction Photo Taken:

Southeast

Description:

Alternate view of Bronx-Whitestone Bridge MTA Building.

Date	Photo No.
8/9/2024	16

Direction Photo Taken:

Northwest

Description:

Adjoining athletic field.

Date	Photo No.
8/9/2024	17

Direction Photo Taken:

West

Description:

Adjoining commercial warehouse and parking lot.

Date	Photo No.
8/9/2024	18

Direction Photo Taken:

Northeast

Description:

Adjoining toll plaza for the Bronx-Whitestone Bridge.

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	19

Direction Photo Taken:

East

Description:

Adjoining Bally's Golf Links at Ferry Point.

Date	Photo No.
8/9/2024	20

Direction Photo Taken:

East

Description:

Adjoining Ferry Point Park.

Appendix D User Provided Information

Docusign Envelope ID: 3CE5B05B-9955-4E49-BEED-0490AFAA772C

Clear Form

ASTM E1527-21 User Questionnaire

Please complete the below form and return to Langan.

Providing the following information (if available) to the environmental professional (Langan) is one of the requirements to qualify for one of the Landowner Liability Protections (LLP) offered under CERCLA. Missing or incomplete information for questions 1 through 6 could result in a determination that "all appropriate inquiry" is not complete. Additional information should be provided for "Yes" answers where relevant.

General Information

User/Client Names: Bally's Golf Links at Ferry Point

Reason for the Phase I ESA: New Gaming Resort Development

Type of property: Casino Hotel

Type of property transaction (e.g. sale, purchase, exchange): New Zoning

Subject property address (provide documentation of subject property boundary):
500 Hutchinson River Parkway Bronx, New York 10465

Site Contact and Contact Information: Brian Crowell General Manager

Relying Party(ies): _____

Required Information

(1.) Environmental liens that are filed or recorded against the subject property (40 CFR 312.25).

Did a search of recorded land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the subject property under federal, tribal, state or local law?

Yes ○ No ●

(2.) Activity and use limitations that are in place on the subject property or that have been filed or recorded against the subject property (40 CFR 312.26(a)(1)(v) and (vi)).

Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the subject property and/or have been filed or recorded against the subject property under federal, tribal, state or local law?

Yes ○ No ●

(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).

Do you have any specialized knowledge or experience related to the subject property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the subject property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

Yes ● No ○

(4.) Relationship of the purchase price to the fair market value of the subject property if it were not contaminated (40 CFR 312.29).

Does the purchase price being paid for this subject property reasonably reflect the fair market value of the subject property?

Yes ● No ○

If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the subject property?

Yes ○ No ●

Docusign Envelope ID: 3CE5B05B-9955-4E49-BEED-0490AFAA772C

(5.) Commonly known or reasonably ascertainable information about the subject property (40 CFR 312.30).

	Yes	No
Are you aware of commonly known or reasonably ascertainable information about the subject property that would help the environmental professional to identify conditions indicative of releases or threatened releases?	●	○
For example,		
(a.) Do you know the past uses of the subject property?	●	○
(b.) Do you know of specific chemicals that are present or once were present at the subject property?	○	●
(c.) Do you know of spills or other chemical releases that have taken place at the subject property?	○	●
(d.) Do you know of any environmental cleanups that have taken place at the subject property?	○	●

(6.) The degree of obviousness of the presence or likely presence of contamination at the subject property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

	Yes	No
Based on your knowledge and experience related to the subject property, are there any obvious indicators that point to the presence or likely presence of releases at the subject property?	○	●
Do you have knowledge or experience with the subject property that may be pertinent to the environmental professional (for example, copies of any available prior environmental site assessment reports, documents, correspondence, etc., concerning the property and its environmental condition)?	●	○

(7.) Proceedings Involving the Subject Property Questions (Section 10.9 of ASTM E1527-21 and Section 10.10 of ASTM E2247-16)

	Yes	No
Do you know of:		
(a.) Any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the subject property?	○	●
(b.) Any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, at, or from the subject property?	○	●
(c) Any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	○	●

Signature

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By: Mark Schlang

Print/Type Name: DocuSigned by: Mark Schlang 50B69DB17FE048C...

Title: Vice President of Architecture

Company: Bally's Corporation

Relationship to Client/User: Employee

Date: 8/16/24

LANGAN

ASTM PRACTICE E 1527-13:
OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

Project Location/Address: Ferry Point Golf Course
500 Hutchinson River Parkway, Bronx, NY 10465

ASTM E-1527-13, Section 10.9

	Yes	No
Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	☐	☒

ASTM E-1527-13, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided
Environmental site assessment reports	☐	☐	☒
Environmental compliance audit reports	☐	☐	☒
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits)	☐	☐	☒
Registrations for underground and aboveground storage tanks	☐	☒	☐
Material safety data sheets	☐	☐	☒
Community-right-to-know plan	☒	☐	☐
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, facility response plans, etc.	☐	☐	☒

LANGAN

	Unaware	Document Exists	Copy will be provided
Reports regarding hydrogeologic conditions on the property or surrounding area	☐	☐	☒
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	☒	☐	☐
Hazardous waste generator notices or reports	☐	☒	☐
Geotechnical studies	☐	☐	☒
Risk Assessments	☒	☐	☐
Recorded Activity and Use Limitations	☐	☐	☒
Environmental Cleanup Reports	☐	☐	☒

Do you have contact information for the prior owner of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Owner's Name _____

Contact person _____

Address_____

_____

Telephone _____

Do you have contact information for the prior occupant of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Occupant's Name_____

Contact person _____

Address _____

_____

Telephone _____

Do you have information on the prior facility manager of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

LANGAN

Prior Facility Manager's Name _____

Contact person _____

Address _____

_____

Telephone _____

This form was completed by:

Property Owner ☒ Operator ☐ Key Site Manager ☐ User ☐ EP ☐

Name: Kay Zias, Director of ERU, NYC Department of Parks and Recreation

Address: 117-2 Roosevelt Avenue, Flushing, NY 11368

_____

Signature: Kay Zias Date: 8/29/2024

Appendix E Environmental Database Report

Proposed Ballys Casino - Ring Road
450 Hutchinson River Parkway
Bronx, NY 10465

Inquiry Number: 7720624.2s
July 29, 2024

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

Physical Setting Source Addendum	**A-1**
Physical Setting Source Summary	**A-2**
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Physical Setting Source Records Searched	**PSGR-1**

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

450 HUTCHINSON RIVER PARKWAY
BRONX, NY 10465

COORDINATES

Latitude (North):	40.8136930 - 40˚ 48' 49.29''
Longitude (West):	73.8358030 - 73˚ 50' 8.89''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	598189.6
UTM Y (Meters):	4518516.0
Elevation:	16 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	14115946 FLUSHING, NY
Version Date:	2019

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20190809
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
450 HUTCHINSON RIVER PARKWAY
BRONX, NY 10465

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1		450 HUTCHINSON RVR P	NY NYC LAND USE		TP
A2	FERRY POINT PARK REC	500 HUTCHINSON RIVER	NY SPDES	Lower	1 ft.
A3	NYSDOT BIN 55211229	1 HUTCHINSON RIVER P	FINDS	Lower	1 ft.
A4	MANHOLE 15002	80 N HUTCHINSON RIVE	NY Spills	Higher	1 ft.
A5	MTA BRIDGES & TUNNEL	BRONX-WHITESTONE BRI	RCRA-SQG, E MANIFEST, NJ MANIFEST	Lower	1 ft.
A6	NYCP&R - FERRY POINT	500 HUTCHINSON PARKW	FINDS, ECHO	Lower	1 ft.
A7	FERRY POINT PARK GOL	500 HUTCHINSON RIVER	FINDS, ECHO	Lower	1 ft.
A8	NYCP&R - FERRY POINT		PFAS ECHO	Lower	1 ft.
A9	BRONX WHITESTONE BRI	1 HUTCHINSON RIVER P	NY Spills	Lower	1 ft.
10	CON EDISON TRANSFORM	530 HUTCHINSON RIVER	NY Spills	Higher	1 ft.
A11	NYC PARKS-FERRY POIN	500 HUTCHINSON RIVER	FINDS, ECHO	Lower	1 ft.
A12	BRONX WHITESTONE BRI	1 HUTCHINSON RIVER P	UST FINDER RELEASE	Lower	1 ft.
A13	FERRY POINT PARK GOL	500 HUTCHINSON RIVER	NY Spills	Lower	1 ft.
A14	NYC PARKS-FERRY POIN		PFAS ECHO	Lower	1 ft.
B15	WHITESTONE BRIDGE -	WHITESTONE BR	NY LTANKS	Lower	109, 0.021, NNW
B16	WHITESTONE BRIDGE	TOLL PLAZA	NY Spills	Lower	109, 0.021, NNW
17	CABLEVISION	500-510 BRUSH AVENUE	NY AST	Lower	279, 0.053, NNW
C18	CON EDISON	555 HUTCHINSON RIVER	RCRA NonGen / NLR	Lower	418, 0.079, NNW
C19	VAULT #2232	555 HUTCHINSON RIVER	NY AST, NY Spills	Lower	418, 0.079, NNW
D20	BRONX WHITESTONE BRI	ONE HUTCHINSON RIVER	NY UST	Lower	434, 0.082, NW
D21	BRONX WHITESTONE BRI	ONE HUTCHINSON RIVER	NY AST	Lower	434, 0.082, NW
E22	MTA BRIDGES & TUNNEL	1 HUTCHINSON RIVER P	NY LTANKS, NY Spills, NY MANIFEST	Higher	597, 0.113, ESE
E23	FARRY POINT PARK	WHITSTONE BRIDGE	NY Spills	Higher	597, 0.113, ESE
F24	LIBERTY MECHANICAL/C	550 BRUSH AVENUE	NY TANKS, NY NYC LAND USE	Lower	601, 0.114, NNW
25	FERRY POINT PARK GOL	700 HUTCHINSON RIVER	NY AST	Lower	639, 0.121, North
E26	MTA BRIDGE BIN 55211	1 HUTCHINSON RIVER P	RCRA-LQG, E MANIFEST, PA MANIFEST, NJ MANIFEST	Higher	679, 0.129, East
F27	545 BRUSH AVE/BX/U.P	545 BRUSH AVENUE	NY LTANKS	Lower	694, 0.131, NNW
28	FERRY POINT PARK	10 HUTCHINSON ROVER	NY SWF/LF, NY ILI	Lower	728, 0.138, SSW
F29	UNITED PARCEL SERVIC	BRUSH AVE	RCRA-SQG, NY CBS AST, E MANIFEST, NY MANIFEST, NJ...	Lower	779, 0.148, NNW
F30	UPS-BRUSH AVENUE	545 BRUSH AVE	NY TANKS, NY SPDES	Lower	779, 0.148, NNW
F31	UNITED PARCEL SERVIC	545 BRUSH AVENUE	NY UST	Lower	779, 0.148, NNW
F32	UPS	545 BRUSH AVE	NY LTANKS, NY CBS, NY Spills	Lower	779, 0.148, NNW
F33	UNITED PARCEL SERVIC	545 BRUSH AVENUE	NY AST	Lower	779, 0.148, NNW
F34	UNITED PARCEL SERVIC	545 BRUSH AVENUE	NY AST	Lower	779, 0.148, NNW
F35	UNITED PARCEL SERVIC	545 BRUSH AVENUE	UST FINDER	Lower	779, 0.148, NNW
36	N Y BRUSH LLC	650 BRUSH AVE	RCRA-LQG, NY MANIFEST	Lower	1083, 0.205, NNW
37	H.O. PENN MACHINERY	699 BRUSH AVE	NY LTANKS, NY TANKS, NY Spills, NY SPDES	Lower	1664, 0.315, NNW
G38	VERIZON NEW YORK INC	500 ZEREGA AVENUE	NY LTANKS, NY TANKS, NY NYC LAND USE	Lower	1672, 0.317, NW
G39	500 ZEREGA AVENUE	500 ZEREGA AVENUE	UST FINDER RELEASE	Lower	1672, 0.317, NW

MAPPED SITES SUMMARY

Target Property Address:
450 HUTCHINSON RIVER PARKWAY
BRONX, NY 10465

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
40	NYCDOS FERRY POINT P	44 BEAVER ST - 6TH F	NY SWF/LF	Higher	1757, 0.333, South
41	RAILROAD MAINTENANCE	432 ZEREGA AVENUE	NY SWF/LF, NY NYC LAND USE	Lower	1784, 0.338, WNW
42	BLOCK 3579, LOT 1	BLOCK 3579, LOT 1	NY VCP	Lower	1906, 0.361, NNW
43	RANDALL AVE AND ZERE	HAVMEYER AVE, RANDEL	NY SWF/LF, NY ILI	Higher	1982, 0.375, NW
44	EASTERN ECOLOGY COMP	665-637 ZEREGA AVE	NY SWF/LF, NY ILI	Lower	2063, 0.391, NNW
45	EARTH BANK COMPANY I	748 BRUSH AVENUE	NY SWF/LF, NY NYC LAND USE	Higher	2155, 0.408, North
46	AAA THROGGS NECK		FUDS	Higher	4255, 0.806, East

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
450 HUTCHINSON RVR P 450 HUTCHINSON RVR P BRONX, NY 10465	NY NYC LAND USE	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL..... National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS..... Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

EXECUTIVE SUMMARY

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROLS..... Institutional Controls Sites List

Federal ERNS list

ERNS..... Emergency Response Notification System

Lists of state- and tribal hazardous waste facilities

NY SHWS..... Inactive Hazardous Waste Disposal Sites in New York State

Lists of state and tribal leaking storage tanks

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
NY HIST LTANKS..... Listing of Leaking Storage Tanks

Lists of state and tribal registered storage tanks

FEMA UST..... Underground Storage Tank Listing
NY CBS UST..... Chemical Bulk Storage Database
NY MOSF UST..... Major Oil Storage Facilities Database
NY MOSF..... Major Oil Storage Facility Site Listing
NY MOSF AST..... Major Oil Storage Facilities Database
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

NY RES DECL..... Restrictive Declarations Listing
NY ENG CONTROLS..... Registry of Engineering Controls
NY INST CONTROL..... Registry of Institutional Controls

Lists of state and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield sites

NY BROWNFIELDS..... Brownfields Site List
NY ERP..... Environmental Restoration Program Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

NY SWRCY..... Registered Recycling Facility List
NY SWTIRE..... Registered Waste Tire Storage & Facility List

EXECUTIVE SUMMARY

INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
ODI	Open Dump Inventory
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	Delisted National Clandestine Laboratory Register
NY DEL SHWS	Delisted Registry Sites
US CDL	National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

NY HIST UST	Historical Petroleum Bulk Storage Database
NY HIST AST	Historical Petroleum Bulk Storage Database

Local Land Records

NY LIENS	Spill Liens Information
LIENS 2	CERCLA Lien Information

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
NY Hist Spills	SPILLS Database
NY SPILLS 90	SPILLS 90 data from FirstSearch
NY SPILLS 80	SPILLS 80 data from FirstSearch

Other Ascertainable Records

DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations

EXECUTIVE SUMMARY

FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
MINES MRDS	Mineral Resources Data System
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
PFAS NPL	Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES	Federal Sites PFAS Information
PFAS TSCA	PFAS Manufacture and Imports Information
PFAS TRIS	List of PFAS Added to the TRI
PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR	PFAS Contamination Site Location Listing
PFAS WQP	Ambient Environmental Sampling for PFAS
PFAS NPDES	Clean Water Act Discharge Monitoring Information
PFAS PROJECT	NORTHEASTERN UNIVERSITY PFAS PROJECT
PFAS ECHO FIRE TRAIN	Facilities in Industries that May Be Handling PFAS Listing
PFAS PT 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing
BIOSOLIDS	ICIS-NPDES Biosolids Facility Data
NY PFAS	PFAS Contamination Site Location Listing
NY AIRS	Air Emissions Data
NY COAL ASH	Coal Ash Disposal Site Listing
NY DRYCLEANERS	Registered Drycleaners
NY E DESIGNATION	E DESIGNATION SITE LISTING
NY Financial Assurance	Financial Assurance Information Listing
NY HSWDS	Hazardous Substance Waste Disposal Site Inventory
NY LEAD	Lead-based Paint Testing Results
NY VAPOR REOPENED	Vapor Intrusion Legacy Site List
NY UIC	Underground Injection Control Wells
NY COOLING TOWERS	Registered Cooling Towers
NY MGP	Manufactured Gas Plants Listing
NY NYC OER	OER Cleanup Sites Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

NY RGA HWS	Recovered Government Archive State Hazardous Waste Facilities List
NY RGA LF	Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal RCRA generators

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 06/03/2024 has revealed that there are 2 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGE BIN 55211 EPA ID:: NYD982796377	***1 HUTCHINSON RIVER P***	***E 1/8 - 1/4 (0.129 mi.)***	***E26***	***96***

Lower Elevation	Address	Direction / Distance	Map ID	Page
N Y BRUSH LLC EPA ID:: NYR000140368	***650 BRUSH AVE***	***NNW 1/8 - 1/4 (0.205 mi.)***	***36***	***191***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/03/2024 has revealed that there are 2 RCRA-SQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGES & TUNNEL EPA ID:: NYR000154260	***BRONX-WHITESTONE BRI***	***0 - 1/8 (0.000 mi.)***	***A5***	***13***
UNITED PARCEL SERVIC EPA ID:: NYD986900728	***BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F29***	***127***

EXECUTIVE SUMMARY

Lists of state and tribal landfills and solid waste disposal facilities

NY SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the list.

A review of the NY SWF/LF list, as provided by EDR, and dated 03/25/2024 has revealed that there are 6 NY SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NYCDOS FERRY POINT P	44 BEAVER ST - 6TH F	S 1/4 - 1/2 (0.333 mi.)	40	211
RANDALL AVE AND ZERE	***HAVMEYER AVE, RANDEL***	***NW 1/4 - 1/2 (0.375 mi.)***	***43***	***215***
EARTH BANK COMPANY I	***748 BRUSH AVENUE***	***N 1/4 - 1/2 (0.408 mi.)***	***45***	***218***

Lower Elevation	Address	Direction / Distance	Map ID	Page
FERRY POINT PARK	***10 HUTCHINSON ROVER***	***SSW 1/8 - 1/4 (0.138 mi.)***	***28***	***125***
RAILROAD MAINTENANCE	***432 ZEREGA AVENUE***	***WNW 1/4 - 1/2 (0.338 mi.)***	***41***	***212***
EASTERN ECOLOGY COMP	***665-637 ZEREGA AVE***	***NNW 1/4 - 1/2 (0.391 mi.)***	***44***	***216***

Lists of state and tribal leaking storage tanks

NY LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the NY LTANKS list, as provided by EDR, and dated 05/06/2024 has revealed that there are 6 NY LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGES & TUNNEL	***1 HUTCHINSON RIVER P***	***ESE 0 - 1/8 (0.113 mi.)***	***E22***	***56***
Spill Date: 1994-09-19				
Spill Date: 1996-09-24				
Spill Number/Closed Date: 9408139 / 2003-11-06				
Spill Number/Closed Date: 9607895 / 2003-11-06				
Site ID: 249980				
Site ID: 249984				

Lower Elevation	Address	Direction / Distance	Map ID	Page
WHITESTONE BRIDGE -	WHITESTONE BR	NNW 0 - 1/8 (0.021 mi.)	B15	34
Spill Date: 1990-03-19				
Spill Number/Closed Date: 8912020 / 1990-03-19				
Site ID: 295754				
545 BRUSH AVE/BX/U.P	545 BRUSH AVENUE	NNW 1/8 - 1/4 (0.131 mi.)	F27	124
Spill Date: 1989-12-20				
Spill Number/Closed Date: 8909242 / 2003-02-27				
Site ID: 138397				
UPS	***545 BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F32***	***180***
Spill Date: 1989-11-17				
Spill Number/Closed Date: 8908245 / 1992-09-30				

Site ID: 212269

H.O. PENN MACHINERY	***699 BRUSH AVE***	***NNW 1/4 - 1/2 (0.315 mi.)***	***37***	***197***

Spill Date: 1992-04-20
Spill Date: 1997-01-08
Spill Number/Closed Date: 9200766 / 2003-03-07
Spill Number/Closed Date: 9612128 / 2006-12-13
Site ID: 186683
Site ID: 186684

VERIZON NEW YORK INC	***500 ZEREGA AVENUE***	***NW 1/4 - 1/2 (0.317 mi.)***	***G38***	***206***

Spill Date: 1987-08-11
Spill Number/Closed Date: 8703906 / 1996-08-06
Site ID: 270294

Lists of state and tribal registered storage tanks

NY UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the NY UST list, as provided by EDR, has revealed that there are 2 NY UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BRONX WHITESTONE BRI	ONE HUTCHINSON RIVER	NW 0 - 1/8 (0.082 mi.)	D20	44
Database: UST, Date of Government Version: 03/19/2024				
UNITED PARCEL SERVIC	545 BRUSH AVENUE	NNW 1/8 - 1/4 (0.148 mi.)	F31	175
Database: UST, Date of Government Version: 03/19/2024				

NY CBS: These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

A review of the NY CBS list, as provided by EDR, and dated 03/19/2024 has revealed that there is 1 NY CBS site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
UPS	***545 BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F32***	***180***

Facility Status: Unregulated/Closed
CBS Number: 2-000341

NY AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the NY AST list, as provided by EDR, has revealed that there are 6 NY AST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CABLEVISION	500-510 BRUSH AVENUE	NNW 0 - 1/8 (0.053 mi.)	17	36
Database: AST, Date of Government Version: 03/19/2024				

Facility Id: 2-603460				
VAULT #2232	***555 HUTCHINSON RIVER***	***NNW 0 - 1/8 (0.079 mi.)***	***C19***	***41***
Database: AST, Date of Government Version: 03/19/2024				
Facility Id: 2-062987				
BRONX WHITESTONE BRI	ONE HUTCHINSON RIVER	NW 0 - 1/8 (0.082 mi.)	D21	54
Database: AST, Date of Government Version: 03/19/2024				
Facility Id: 2-481645				
FERRY POINT PARK GOL	700 HUTCHINSON RIVER	N 0 - 1/8 (0.121 mi.)	25	91
Database: AST, Date of Government Version: 03/19/2024				
Facility Id: 2-611992				
UNITED PARCEL SERVIC	545 BRUSH AVENUE	NNW 1/8 - 1/4 (0.148 mi.)	F33	186
Database: AST, Date of Government Version: 03/19/2024				
Facility Id: 2-000341				
UNITED PARCEL SERVIC	545 BRUSH AVENUE	NNW 1/8 - 1/4 (0.148 mi.)	F34	187
Database: AST, Date of Government Version: 03/19/2024				
Facility Id: 2-601299				

NY CBS AST: Chemical Bulk Storage Database. Registration data collected as required by 6 NYCRR Part 596. It includes facilities storing hazardous substances listed in 6 NYCRR Part 597, in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size. Includes facilities registered (and closed) since effective date of CBS regulations (July 15, 1988) through the date request is processed.

A review of the NY CBS AST list, as provided by EDR, and dated 01/01/2002 has revealed that there is 1 NY CBS AST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
UNITED PARCEL SERVIC	***BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F29***	***127***
Facility Status: 1				
Facility Status: 1				
CBS Number: 2-000341				

NY TANKS: This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

A review of the NY TANKS list, as provided by EDR, has revealed that there are 2 NY TANKS sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LIBERTY MECHANICAL/C	***550 BRUSH AVENUE***	***NNW 0 - 1/8 (0.114 mi.)***	***F24***	***89***
Database: TANKS, Date of Government Version: 03/19/2024				
Facility Id: 2-080799				
Site Status: Active				
UPS-BRUSH AVENUE	***545 BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F30***	***173***
Database: TANKS, Date of Government Version: 03/19/2024				
Facility Id: 2-258180				
Site Status: Inactive				

EXECUTIVE SUMMARY

Lists of state and tribal voluntary cleanup sites

NY VCP: Voluntary Cleanup Agreements. The voluntary remedial program uses private monies to get contaminated sites remediated to levels allowing for the sites' productive use. The program covers virtually any kind of site and contamination.

A review of the NY VCP list, as provided by EDR, has revealed that there is 1 NY VCP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BLOCK 3579, LOT 1	BLOCK 3579, LOT 1	NNW 1/4 - 1/2 (0.361 mi.)	42	214
Database: VCP, Date of Government Version: 02/06/2024				
Site Code: 58877				

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

NY Spills: Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 05/06/2024 has revealed that there are 8 NY Spills sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MANHOLE 15002	80 N HUTCHINSON RIVE	0 - 1/8 (0.000 mi.)	A4	12
Spill Number/Closed Date: 0805329 / 2008-09-16				
Site ID: 402409				
Spill Date: 2008-08-07				
CON EDISON TRANSFORM	530 HUTCHINSON RIVER	0 - 1/8 (0.000 mi.)	10	27
Spill Number/Closed Date: 1000322 / 2010-04-22				
Site ID: 431484				
Spill Date: 2010-04-08				
MTA BRIDGES & TUNNEL	***1 HUTCHINSON RIVER P***	***ESE 0 - 1/8 (0.113 mi.)***	***E22***	***56***
Spill Number/Closed Date: 0100477 / 2014-03-18				
Spill Number/Closed Date: 9201985 / 2011-11-16				
Spill Number/Closed Date: 9601373 / 2011-11-16				
Spill Number/Closed Date: 9801266 / 2014-03-18				
Spill Number/Closed Date: 9303540 / 2003-11-06				
**Additional key fields are available in the Map Findings section*				
Site ID: 214399				
Site ID: 249978				
Site ID: 249983				
Site ID: 249985				
Site ID: 249979				
**Additional key fields are available in the Map Findings section*				
Spill Date: 2001-04-12				
Spill Date: 1991-06-11				
Spill Date: 1996-04-26				

Spill Date: 1998-04-24
Spill Date: 1993-06-17
**Additional key fields are available in the Map Findings section*

FARRY POINT PARK Spill Number/Closed Date: 0012477 / 2003-06-09 Site ID: 207749 Spill Date: 2001-02-21	WHITSTONE BRIDGE	ESE 0 - 1/8 (0.113 mi.)	E23	88

Lower Elevation	Address	Direction / Distance	Map ID	Page
BRONX WHITESTONE BRI Spill Number/Closed Date: 1109651 / 2012-01-18 Site ID: 457431 Spill Date: 2011-11-02	1 HUTCHINSON RIVER P	0 - 1/8 (0.000 mi.)	A9	26
FERRY POINT PARK GOL Spill Number/Closed Date: 0913675 / 2010-03-25 Site ID: 426631 Spill Date: 2010-01-10	500 HUTCHINSON RIVER	0 - 1/8 (0.000 mi.)	A13	31
WHITESTONE BRIDGE Spill Number/Closed Date: 0011525 / 2001-06-01 Site ID: 100434 Spill Date: 2001-01-25	TOLL PLAZA	NNW 0 - 1/8 (0.021 mi.)	B16	35
VAULT #2232 Spill Number/Closed Date: 0813834 / 2009-06-08 Site ID: 411543 Spill Date: 2009-03-23	***555 HUTCHINSON RIVER***	***NNW 0 - 1/8 (0.079 mi.)***	***C19***	***41***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/03/2024 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON EPA ID:: NYP004164521	555 HUTCHINSON RIVER	NNW 0 - 1/8 (0.079 mi.)	C18	39

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 01/30/2024 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AAA THROGGS NECK		E 1/2 - 1 (0.806 mi.)	46	220

EXECUTIVE SUMMARY

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 02/09/2024 has revealed that there are 4 FINDS sites within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NYSDOT BIN 55211229 Registry ID:: 110070754377	1 HUTCHINSON RIVER P	0 - 1/8 (0.000 mi.)	A3	11
NYCP&R - FERRY POINT Registry ID:: 110039573832	***500 HUTCHINSON PARKW***	***0 - 1/8 (0.000 mi.)***	***A6***	***23***
FERRY POINT PARK GOL Registry ID:: 110019713684	***500 HUTCHINSON RIVER***	***0 - 1/8 (0.000 mi.)***	***A7***	***24***
NYC PARKS-FERRY POIN Registry ID:: 110019835188	***500 HUTCHINSON RIVER***	***0 - 1/8 (0.000 mi.)***	***A11***	***28***

ECHO: ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

A review of the ECHO list, as provided by EDR, and dated 06/23/2024 has revealed that there are 3 ECHO sites within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NYCP&R - FERRY POINT Registry ID: 110039573832	***500 HUTCHINSON PARKW***	***0 - 1/8 (0.000 mi.)***	***A6***	***23***
FERRY POINT PARK GOL Registry ID: 110019713684	***500 HUTCHINSON RIVER***	***0 - 1/8 (0.000 mi.)***	***A7***	***24***
NYC PARKS-FERRY POIN Registry ID: 110019835188	***500 HUTCHINSON RIVER***	***0 - 1/8 (0.000 mi.)***	***A11***	***28***

PFAS ECHO: Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

A review of the PFAS ECHO list, as provided by EDR, and dated 07/01/2024 has revealed that there are 2 PFAS ECHO sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NYCP&R - FERRY POINT		0 - 1/8 (0.000 mi.)	A8	24
NYC PARKS-FERRY POIN		0 - 1/8 (0.000 mi.)	A14	32

EXECUTIVE SUMMARY

UST FINDER: EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

A review of the UST FINDER list, as provided by EDR, and dated 06/08/2023 has revealed that there is 1 UST FINDER site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
UNITED PARCEL SERVIC	545 BRUSH AVENUE	NNW 1/8 - 1/4 (0.148 mi.)	F35	190

UST FINDER RELEASE: US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

A review of the UST FINDER RELEASE list, as provided by EDR, and dated 06/08/2023 has revealed that there are 2 UST FINDER RELEASE sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BRONX WHITESTONE BRI	1 HUTCHINSON RIVER P	0 - 1/8 (0.000 mi.)	A12	29
500 ZEREGA AVENUE	500 ZEREGA AVENUE	NW 1/4 - 1/2 (0.317 mi.)	G39	210

E MANIFEST: EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

A review of the E MANIFEST list, as provided by EDR, and dated 07/24/2023 has revealed that there are 3 E MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGE BIN 55211	***1 HUTCHINSON RIVER P***	***E 1/8 - 1/4 (0.129 mi.)***	***E26***	***96***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGES & TUNNEL	***BRONX-WHITESTONE BRI***	***0 - 1/8 (0.000 mi.)***	***A5***	***13***
UNITED PARCEL SERVIC	***BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F29***	***127***

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, and dated 12/31/2019 has revealed that there are 3 NY MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGES & TUNNEL EPA ID: NYR000154260	***1 HUTCHINSON RIVER P***	***ESE 0 - 1/8 (0.113 mi.)***	***E22***	***56***

Lower Elevation	Address	Direction / Distance	Map ID	Page
UNITED PARCEL SERVIC	***BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F29***	***127***

EPA ID: NYD986900728				
N Y BRUSH LLC	***650 BRUSH AVE***	***NNW 1/8 - 1/4 (0.205 mi.)***	***36***	***191***
EPA ID: NYR000140368				

PA MANIFEST: Hazardous waste manifest information.

A review of the PA MANIFEST list, as provided by EDR, and dated 06/30/2018 has revealed that there is 1 PA MANIFEST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGE BIN 55211	***1 HUTCHINSON RIVER P***	***E 1/8 - 1/4 (0.129 mi.)***	***E26***	***96***
Generator EPA Id: NYD982796377				

NJ MANIFEST: Hazardous waste manifest information.

A review of the NJ MANIFEST list, as provided by EDR, and dated 12/31/2018 has revealed that there are 3 NJ MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGE BIN 55211	***1 HUTCHINSON RIVER P***	***E 1/8 - 1/4 (0.129 mi.)***	***E26***	***96***
EPA Id: NYD982796377				

Lower Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGES & TUNNEL	***BRONX-WHITESTONE BRI***	***0 - 1/8 (0.000 mi.)***	***A5***	***13***
EPA Id: NYR000154260				
UNITED PARCEL SERVIC	***BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F29***	***127***
EPA Id: NYD986900728				

NY SPDES: New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

A review of the NY SPDES list, as provided by EDR, and dated 01/12/2024 has revealed that there is 1 NY SPDES site within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FERRY POINT PARK REC	500 HUTCHINSON RIVER	0 - 1/8 (0.000 mi.)	A2	10
Permit Number: NYR10D547				

EXECUTIVE SUMMARY

NY ILI: A solid waste site priority list of mitigation and remedial activities to address sites causing, or substantially contributing to, impairments of drinking water quality. Inactive solid waste disposal sites, primarily landfills, and their potential impact on New York?s drinking water resources from site-related contaminants, with a focus on emerging contaminants.

A review of the NY ILI list, as provided by EDR, and dated 01/30/2024 has revealed that there are 3 NY ILI sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RANDALL AVE AND ZERE	*HAVMEYER AVE, RANDEL*	*NW 1/4 - 1/2 (0.375 mi.)*	*43*	*215*

Lower Elevation	Address	Direction / Distance	Map ID	Page
FERRY POINT PARK	*10 HUTCHINSON ROVER*	*SSW 1/8 - 1/4 (0.138 mi.)*	*28*	*125*
EASTERN ECOLOGY COMP	*665-637 ZEREGA AVE*	*NNW 1/4 - 1/2 (0.391 mi.)*	*44*	*216*

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 5 records.

Site Name	Database(s)
CE - ZEREGA AVE. STATION	NY SHWS
FORT SCHUYLER PARK AREA	NY SWF/LF, NY ILI
LB NORTHEAST	NY SWF/LF, NY ILI
BLOCK 5541, LOT 225 (BRUSH AVENUE	NY VCP
CE - ZEREGA AVE. STATION	NY VCP, NY MGP

OVERVIEW MAP - 7720624.2S

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

County Boundary

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Proposed Ballys Casino - Ring Road	CLIENT:	Langan Engineering, Inc.
ADDRESS:	450 Hutchinson River Parkway Bronx NY 10465	CONTACT:	Kaitlyn Gioia
		INQUIRY #:	7720624.2s
LAT/LONG:	40.813693 / 73.835803	DATE:	July 29, 2024 4:56 pm

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DETAIL MAP - 7720624.2S

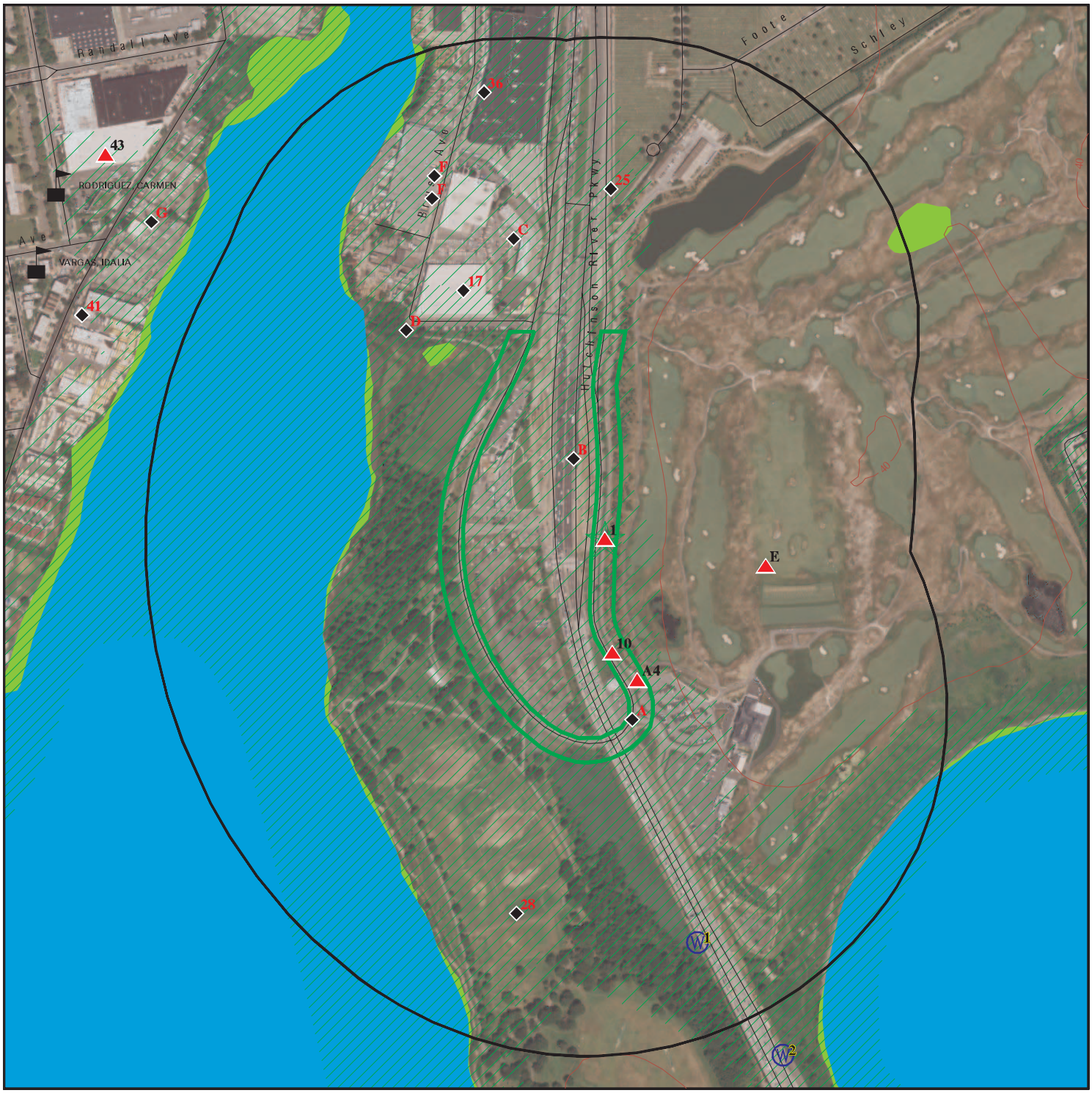

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

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		INQUIRY #:	7720624.2s
LAT/LONG:	40.813693 / 73.835803	DATE:	July 29, 2024 4:59 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	2	NR	NR	NR	2
RCRA-SQG	0.250		1	1	NR	NR	NR	2
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal hazardous waste facilities								
NY SHWS	1.000		0	0	0	0	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
NY SWF/LF	0.500		0	1	5	NR	NR	6
Lists of state and tribal leaking storage tanks								
INDIAN LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY LTANKS	0.500		2	2	2	NR	NR	6
NY HIST LTANKS	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
NY UST	0.250		1	1	NR	NR	NR	2
NY CBS UST	0.250		0	0	NR	NR	NR	0
NY MOSF UST	0.500		0	0	0	NR	NR	0
NY MOSF	0.500		0	0	0	NR	NR	0
NY CBS	0.250		0	1	NR	NR	NR	1
NY AST	0.250		4	2	NR	NR	NR	6
NY CBS AST	0.250		0	1	NR	NR	NR	1
NY MOSF AST	0.500		0	0	0	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
NY TANKS	0.250		1	1	NR	NR	NR	2
State and tribal institutional control / engineering control registries								
NY RES DECL	0.125		0	NR	NR	NR	NR	0
NY ENG CONTROLS	0.500		0	0	0	NR	NR	0
NY INST CONTROL	0.500		0	0	0	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
NY VCP	0.500		0	0	1	NR	NR	1
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
NY BROWNFIELDS	0.500		0	0	0	NR	NR	0
NY ERP	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
NY SWRCY	0.500		0	0	0	NR	NR	0
NY SWTIRE	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
NY DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
NY HIST UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY HIST AST	0.001		0	NR	NR	NR	NR	0
Local Land Records								
NY LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
NY Spills	0.125		8	NR	NR	NR	NR	8
NY Hist Spills	0.125		0	NR	NR	NR	NR	0
NY SPILLS 90	0.125		0	NR	NR	NR	NR	0
NY SPILLS 80	0.125		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	0	NR	NR	NR	1
FUDS	1.000		0	0	0	1	NR	1
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
FINDS	0.001		4	NR	NR	NR	NR	4
ECHO	0.001		3	NR	NR	NR	NR	3
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS PROJECT	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		2	0	NR	NR	NR	2
PFAS ECHO FIRE TRAIN	0.250		0	0	NR	NR	NR	0
PFAS PT 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	0.001		0	NR	NR	NR	NR	0
UST FINDER	0.250		0	1	NR	NR	NR	1
UST FINDER RELEASE	0.500		1	0	1	NR	NR	2
E MANIFEST	0.250		1	2	NR	NR	NR	3
NY PFAS	0.250		0	0	NR	NR	NR	0
NY AIRS	0.001		0	NR	NR	NR	NR	0
NY COAL ASH	0.500		0	0	0	NR	NR	0
NY DRYCLEANERS	0.250		0	0	NR	NR	NR	0
NY E DESIGNATION	0.125		0	NR	NR	NR	NR	0
NY Financial Assurance	0.001		0	NR	NR	NR	NR	0
NY HSWDS	0.500		0	0	0	NR	NR	0
NY LEAD	0.001		0	NR	NR	NR	NR	0
NY MANIFEST	0.250		1	2	NR	NR	NR	3
PA MANIFEST	0.250		0	1	NR	NR	NR	1
NJ MANIFEST	0.250		1	2	NR	NR	NR	3
NY SPDES	0.001		1	NR	NR	NR	NR	1
NY VAPOR REOPENED	0.500		0	0	0	NR	NR	0
NY UIC	0.001		0	NR	NR	NR	NR	0
NY COOLING TOWERS	0.001		0	NR	NR	NR	NR	0
NY MGP	1.000		0	0	0	0	NR	0
NY NYC LAND USE	TP	1	NR	NR	NR	NR	NR	1
NY ILI	0.500		0	1	2	NR	NR	3
NY NYC OER	1.000		0	0	0	0	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
NY RGA HWS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY RGA LF	0.001		0	NR	NR	NR	NR	0
- Totals --		1	32	21	11	1	0	66

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1 **NY NYC LAND USE** **S131152834**
Target Property **450 HUTCHINSON RVR PKWY** **N/A**
BRONX, NY 10465

Actual: 16 ft.

NYC LAND USE:

Name:	Not reported
Address:	450 HUTCHINSON RVR PKWY
City,State,Zip:	BRONX, NY 10465
Latitude:	40.8112977
Longitude:	-73.8344543
Type Of Ownership Code:	C
Owner Name:	NYC DEPARTMENT OF PARKS AND RECREATION
Borough:	BX
Tax Block:	5622
Tax Lot:	1
Community District:	210
Census Tract 2020:	2011000
Census Block 2020:	20110001004
Census Tract 2010:	110
Census Block 2010:	1012
School District:	08
City Council District:	13
Fire Company:	E072
Police Precinct:	45
Health Center District:	26
Health Area:	3220
Sanitation District Boro:	2
Sanitation District Number:	10
Sanitation Subsection:	3C
Zoning District 1:	PARK: Areas designated as PARK, BALL FIELD, PLAYGROUND and PUBLIC SPACE in NYC Zoning Districts
Zoning District 2:	Not reported
Zoning District 3:	Not reported
Zoning District 4:	Not reported
Commercial Overlay 1:	Not reported
Commercial Overlay 2:	Not reported
Special Purpose District 1:	Not reported
Special Purpose District 2:	Not reported
Special Purpose District 3:	Not reported
Limited Height District:	Not reported
Spill Boundary Indicator:	N
Building Class:	Q5: OUTDOOR RECREATION FACILITIES - Golf Course
Land Use Category:	Open Space & Outdoor Recreation
Number Of Easements:	0
Lot Area:	4225328
Total Building Floor Area:	14681
Commercial Floor Area:	14681
Residential Floor Area:	0
Office Floor Area:	2150
Retail Floor Area:	0
Garage Floor Area:	0
Storage Floor Area:	0
Factory Floor Area:	0
Other Floor Area:	0
Total Building Floor Area Source Code:	2
Number Of Buildings:	11
Number Of Floors:	1.0000000
Residential Units:	0
Total Units:	2

(Continued) **S131152834**

Lot Frontage:	97.0000000
Lot Depth:	3400.0000000
Building Frontage:	65.5000000
Building Depth:	35.5000000
Extension Code:	N
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	5
Basement Type/Grade:	0
Assessed Land Value:	40660411.00000
Assessed Total Value:	49656361.00000
Exempt Total Value:	49656361.00000
Year Built:	2014
Year Altered 1:	2010
Year Altered 2:	2017
Historic District Name:	Not reported
Landmark Status:	Not reported
Built Floor Area Ratio:	0.00000000000
Maximum Allowable Residential Far:	0.00000000000
Maximum Allowable Commercial Far:	0.00000000000
Maximum Allowable Community Facility Far:	0.00000000000
Boro Code:	2
Borough, Tax Block and Lot:	2056220001.00000000
Condominium Number:	Not reported
Census Tract 2:	0110
X Coordinate:	1030076
Y Coordinate:	234898
Zoning Map #:	7a
Zoning Map Code:	Y
Sanborn Map #:	221 081
Tax Map #:	21809
E-designation Number:	Not reported
Apportionment BBL:	Not reported
Apportionment Date:	Not reported
Pluto ??? Dtm Base Map Indicator:	1
2007 Flood Insurance Rate Map Indicator:	1
2015 Preliminary Flood Insurance Rate Map Indicator:	1
Version Number:	24v1.1
Changed By DCP:	t

A2 **FERRY POINT PARK RECREATIONAL FAC** **NY SPDES** **S123252664**
500 HUTCHINSON RIVER PKWY **N/A**
< 1/8 **BRONX, NY 10465**
1 ft.

Site 1 of 12 in cluster A

Relative: **Lower**
Actual: **13 ft.**

SPDES:

Name:	Ferry Point Park Recreational Fac
Address:	500 HUTCHINSON RIVER PKWY
City,State,Zip:	BRONX, NY 10465
Permit Number:	NYR10D547
State-Region:	Not reported
Expiration Date:	Not reported
Current Major Minor Status:	Not reported
Primary Facility SIC Code:	Not reported
State Water Body Name:	Not reported
Limit Set Status Flag:	Not reported

FERRY POINT PARK RECREATIONAL FAC (Continued) **S123252664**

Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	598455 / 4518240
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	Not reported
Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Not reported
Non-Gov Facility Org Formal Name:	Not reported
Non-Gov Facility Street Address:	Not reported
Non-Gov Facility Supplemental Location:	Not reported
Non-Gov Facility City:	Not reported
Non-Gov Facility State Code:	Not reported
Non-Gov Facility Zip Code:	Not reported
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Facility Type:	Not reported

A3 **NYSDOT BIN 55211229 - BRONX WHITESTONE BRIDGE** **FINDS** **1026425532**
1 HUTCHINSON RIVER PKWY **N/A**
< 1/8 **BRONX, NY 10465**
1 ft.

Site 2 of 12 in cluster A

Relative: FINDS:
Lower Registry ID: 110070754377

Actual:
12 ft. Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
All generators and treatment, storage, and disposal (TSD) facilities who handle hazardous waste are required to report to the EPA Administrator at least once every two years. The data collected is used to create the National Biennial Resource Conservation and Recovery Act (RCRA) Hazardous Waste Report. This data is processed within the RCRA Information (RCRAInfo) database

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A4 **MANHOLE 15002** **NY Spills** **S109206979**
80 N HUTCHINSON RIVER PKW **N/A**
< 1/8 **BRONX, NY**
1 ft.

Site 3 of 12 in cluster A

Relative:
Higher

Actual:
17 ft.

SPILLS:

Name:	MANHOLE 15002
Address:	80 N HUTCHINSON RIVER PKW
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0805329 / 2008-09-16
Facility ID:	0805329
Facility Type:	ER
DER Facility ID:	351615
Site ID:	402409
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	0301
Spill Date:	2008-08-07
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	2008-08-08
CID:	404
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-08-08
Spill Record Last Update:	2008-09-16
Spiller Name:	ERTSDESK
Spiller Company:	MANHOLE 15002
Spiller Address:	80 N HUTCHINSON RIVER PKW
Spiller Company:	001
Contact Name:	ERTSDESK
DEC Memo:	09/19/08 - See eDocs for Con Ed report detailing cleanup and closure. 9/16/08 - Austin - oil cleaned up - closed
Remarks:	unknown oil on 4000g of water; contained to a manhole; con ed 213035

All Materials:

Site ID:	402409
Operable Unit ID:	1159168
Operable Unit:	01
Material ID:	2150279
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	25.00
Units:	G
Recovered:	.00
Resource Affected:	Surface Water
Oxygenate:	Not reported

A5 **MTA BRIDGES & TUNNELS (BWB)** **RCRA-SQG** **1010566779**
BRONX-WHITESTONE BRIDGE **E MANIFEST** **NYR000154260**
< 1/8 **BRONX, NY 10465** **NJ MANIFEST**
1 ft.

Site 4 of 12 in cluster A

Relative:
Lower

Actual:
11 ft.

RCRA Listings:

Date Form Received by Agency:	20071210
Handler Name:	Whitestone Bridge Facility
Handler Address:	Hutchinson River Pkwy
Handler City,State,Zip:	BRONX, NY 10465-1857
EPA ID:	NYR000154260
Contact Name:	GEORGE BASSIL
Contact Address:	MTA BRGS & TUNLS R MOSES BLDG
Contact City,State,Zip:	NEW YORK, NY 10035-5199
Contact Telephone:	212-360-4165
Contact Fax:	Not reported
Contact Email:	GBASSIL@MTABT.ORG
Contact Title:	Not reported
EPA Region:	02
Land Type:	State
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ny
State District:	NYSDEC R2
Mailing Address:	MTA BRGS & TUNLS R MOSES BLDG
Mailing City,State,Zip:	NEW YORK, NY 10035-5199
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste
Waste Code:	D008
Waste Description:	Lead
Waste Code:	D018
Waste Description:	Benzene

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	TRIBOROUGH BRIDGE & TUNNEL AUTH (TBTA)
Legal Status:	State
Date Became Current:	19500525
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	MTA BRIDGES AND TUNNELS (TBTA)
Legal Status:	State
Date Became Current:	19500525
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20071210
Handler Name:	WHITESTONE BRIDGE FACILITY
Federal Waste Generator Description:	Small Quantity Generator

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20071211
Handler Name:	WHITESTONE BRIDGE FACILITY
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	48849
NAICS Description:	OTHER SUPPORT ACTIVITIES FOR ROAD TRANSPORTATION

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

E MANIFEST:

Manifest Tracking Number:	022176541JJK
Last Updated Date:	20210519
Shipped Date:	20210427
Received Date:	20210427
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYR000154260
Generator Name:	Mta Bridges & Tunnels (Bwb)
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRONX-WHITESTONE BRIDGE
Generator Mail Street 2:	Not reported
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRONX-WHITESTONE BRIDGE
Generator Location Street 2:	Not reported
Generator Location City:	BRONX
Generator Location Zip:	10465

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD002200046
Designated Facility Name:	Cycle Chem, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	217 SOUTH FIRST STREET
Designated Facility Mail City:	ELIZABETH
Designated Facility Mail Zip:	07206
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	217 SOUTH FIRST STREET
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	ELIZABETH
Designated Facility Location Zip:	07206
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Federal Waste:

Manifest Tracking Number:	022176541JJK
Waste Line Number:	1
Federal Waste Code:	D001
Federal Waste:	IGNITABLE WASTE

Manifest Tracking Number:	022176541JJK
Waste Line Number:	1
Federal Waste Code:	D018
Federal Waste:	BENZENE

State Waste:

Manifest Tracking Number:	022176541JJK
Waste Line Number:	1
State Waste Code Owner:	NY
State Waste Code:	B
State Waste:	Incineration, heat recovery, burning. Waste management method code to be used on e-Manifest only

Transporter:

Manifest Tracking Number:	022176541JJK
Transporter Line Number:	1
Transporter EPA ID:	NJD003812047
Transporter Name:	Acv Environmental Services, Inc

Waste Line:

Manifest Tracking Number:	022176541JJK
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	UN2583
U.S. DOT Description:	Rq, Un1993, Waste Flammable Liquids, N.O.S. (Gasoline, Diesel Fuel), 3 , Ii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	1
Container Type Code:	DF

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Container Type Description:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	417
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.2085
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.2085
Waste Quantity, in Kilograms:	189.11575
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	189.11575
Management Method Code:	H061
Management Method Description:	FUEL BLENDING
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

NJ MANIFEST:

EPA ID:	NYR000154260
Name:	WHITESTONE BRIDGE FACILITY
Address:	1 HUTCHINSON RIVER PKWY
City,State,Zip:	BRONX, NY 10465-1857
County:	Not reported
Mailing Address:	MTA BRGS & TUNLS R MOSES BLDG
Mailing City,State,Zip:	NEW YORK, NY 10035-5199
Telephone:	Not reported
Emergency Telephone:	Not reported
Contact:	GEORGE BASSIL
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPAID:	Not reported
Generator Flag:	Not reported
Transporter Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest Data:

EPA ID:	NYR000154260
Manifest Number:	003534721JJK
Date Shipped:	5/4/2011
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H141
Quantity:	55.00
Unit:	Pounds

EPA ID:	NYR000154260
Manifest Number:	010913928JJK
Date Shipped:	11/4/2013
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	600.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	300.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
EPA ID:	NYR000154260
Manifest Number:	010913928JJK
Date Shipped:	11/4/2013
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	600.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	300.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
EPA ID:	NYR000154260
Manifest Number:	010913928JJK
Date Shipped:	11/4/2013
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	600.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	300.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
EPA ID:	NYR000154260
Manifest Number:	015626081JJK
Date Shipped:	3/30/2016
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

EPA ID:	NYR000154260
Manifest Number:	015626081JJK
Date Shipped:	3/30/2016
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

A6 **NYCP&R - FERRY POINT WATERFRONT PARK** **FINDS** **1012241816**
500 HUTCHINSON PARKWAY **ECHO** **N/A**
< 1/8 **BRONX, NY 10465**
1 ft.

Site 5 of 12 in cluster A

Relative:
Lower

Actual:
14 ft.

FINDS:
Registry ID: 110039573832

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
All generators and treatment, storage, and disposal (TSD) facilities who handle hazardous waste are required to report to the EPA Administrator at least once every two years. The data collected is used to create the National Biennial Resource Conservation and Recovery Act (RCRA) Hazardous Waste Report. This data is processed within the RCRA Information (RCRAInfo) database
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1012241816
Registry ID:	110039573832
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110039573832
Name:	NYCP&R - FERRY POINT WATERFRONT PARK
Address:	500 HUTCHINSON PARKWAY
City,State,Zip:	BRONX, NY 10465

A7 **FERRY POINT PARK GOLF COURSE** **FINDS** **1007808831**
500 HUTCHINSON RIVER PKWY **ECHO** **N/A**
< 1/8 **BRONX, NY 10465**
1 ft.

Site 6 of 12 in cluster A

Relative: **Lower**
Actual: **13 ft.**

FINDS:
Registry ID: 110019713684

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The New York Department of Environmental Conservation Facility Information System (FIS) database houses all information about facilities that are regulated or of environmental interest to the state of New York.
The National Pollutant Discharge Elimination System (NPDES) module of the Integrated Compliance Information System (ICIS). Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1007808831
Registry ID:	110019713684
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110019713684
Name:	FERRY POINT PARK GOLF COURSE
Address:	500 HUTCHINSON RIVER PKWY
City,State,Zip:	BRONX, NY 10465

A8 **NYCP&R - FERRY POINT WATERFRONT PARK** **PFAS ECHO** **1027398622**
N/A
< 1/8 **BRONX, NY**
1 ft.

Site 7 of 12 in cluster A

Relative: **Lower**
Actual: **14 ft.**

PFAS ECHO:

Name:	NYCP&R - FERRY POINT WATERFRONT PARK
Address:	Not reported
City,State,Zip:	BRONX, NY
Latitude:	40.81146
Longitude:	-73.83536
Count:	1
County:	BRONX
Status:	Active
Region:	02
Industry:	Waste Management
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110039573832
Facility Percent Minority:	77.092
Facility Derived Tribes:	-
Facility Population:	21838.56
EPA Programs:	RCRA
Federal Facility:	No
Federal Agency:	-
Facility FIPS Code:	36005
Facility Indian Country Flag:	N

NYCP&R - FERRY POINT WATERFRONT PARK (Continued) **1027398622**

Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	02030102
Facility Derived WBD:	020301020105
Facility Derived CD113:	14
Facility Derived CB2010:	360050110001012
Facility Major Flag:	-
Facility Active Flag:	Y
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AIR IDS:	-
CAA Permit Types:	-
CAA NAICS:	-
CAA SICS:	-
NPDES IDS:	-
CWA Permit Types:	-
CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	NYR000168286
RCRA Permit Types:	LQG
RCRA NAICS:	562212
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-
TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	-
EJSCREEN Flag US:	N

EJSCREEN Report:

A9 **BRONX WHITESTONE BRIDGE FACILITY** **NY Spills** **S111158225**
1 HUTCHINSON RIVER PKWY **N/A**
< 1/8 **BRONX, NY**
1 ft.

Site 8 of 12 in cluster A

Relative:
Lower

Actual:
11 ft.

SPILLS:

Name:	BRONX WHITESTONE BRIDGE FACILITY
Address:	1 HUTCHINSON RIVER PKWY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	1109651 / 2012-01-18
Facility ID:	1109651
Facility Type:	ER
DER Facility ID:	411910
Site ID:	457431
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	2011-11-02
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2011-11-02
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2011-11-02
Spill Record Last Update:	2012-01-18
Spiller Name:	PASHKO CAMAJ
Spiller Company:	MTA BRIDGES AND TUNNELS
Spiller Address:	1 HUTCHINSON RIVER PKWY
Spiller Company:	999
Contact Name:	PASHKO CAMAJ
DEC Memo:	Sangesland spoke to Pashko from MTA. He said the site has a 1000 gal buried gasoline tank. Vapor recovery line was pitched the wrong way and gasoline condensed and eventually leaked out of the line into the pea gravel. Franklin Company has been hired to deal with the cleanup and repairs. 12/28/2011 Sangesland spoke to Martin Wozolowski at Liro Engineering. He said F & N did the work supervised by Liro Engineer. Vacuumed out the water from the tank/lines. Found staining in the pea gravel. Vac truck pulled out groundwater from the area around the tank. Removed 3 yards of contaminated pea gravel/stone. Then took 2 ground water samples. One sample was totally clean, the other had a single hit for Benzene. They will submit this report within the next couple of days and request closure. Report dated Jan 3, 2012 submitted by LiRo Engineers Inc. summarized all of this work. Minor Hit for Benzene. OK to close out.

BRONX WHITESTONE BRIDGE FACILITY (Continued) **S111158225**

Remarks: from vapor recovery line from fill station - repairs and cleanup in progress

All Materials:

Site ID:	457431
Operable Unit ID:	1207557
Operable Unit:	01
Material ID:	2204834
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Soil
Oxygenate:	Not reported

---

10 **CON EDISON TRANSFORMER POLE 9572** **NY Spills** **S110307850**
530 HUTCHINSON RIVER PARKWAY **N/A**
< 1/8 **BRONX, NY**
1 ft.

Relative:
Higher

Actual:
16 ft.

SPILLS:

Name:	CON EDISON TRANSFORMER POLE 9572
Address:	530 HUTCHINSON RIVER PARKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	1000322 / 2010-04-22
Facility ID:	1000322
Facility Type:	ER
DER Facility ID:	380458
Site ID:	431484
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	2010-04-08
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	2010-04-08
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2010-04-08
Spill Record Last Update:	2010-04-22
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller Company:	Not reported
Contact Name:	ERT

CON EDISON TRANSFORMER POLE 9572 (Continued) **S110307850**

DEC Memo: 4/8/10-Vought-Duty desk officer. Called Con Ed ERT (212-580-8383) and spoke to Tony Delgado, 21
gallons on asphalt and 4 gallons on soil. No PCB concentrations on file and will be treated as
50-499. Transformer on public property. Endpoint samples will be collected upon determination of
PCB concentrations or EPA Method 8100. Spill assigned to DEC Feroze as part of routine Con Ed
portfolio review and possible closure. Vought received second call from and spoke to Con Ed
Delagado and transformer installed in 1992 and had non-PCB dielectric fluid. Initial EMIS #220992
deleted from proxy and put into e-docs. 4/22/10 - Austin - Pole Transformer leak on soil and
sidewalk, no other impacts- spill contained and cleaned up by Con Ed - see eDocs for more details -
Spill closed - end

Remarks: unknown pcb's onto ashalt. Contained and clean up pending

All Materials:

Site ID:	431484
Operable Unit ID:	1182953
Operable Unit:	01
Material ID:	2177145
Material Code:	0541A
Material Name:	dielectric fluid
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	25.00
Units:	G
Recovered:	Not reported
Resource Affected:	Soil, Impervious Surface
Oxygenate:	Not reported

A11 **NYC PARKS-FERRY POINT PARK** **FINDS** **1016137063**
500 HUTCHINSON RIVER PKWY **ECHO** **N/A**
< 1/8 **BRONX, NY 10465**
1 ft.

Site 9 of 12 in cluster A

Relative: **Lower**
Actual: **13 ft.**

FINDS:
Registry ID: 110019835188

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
ICIS-Air (AIR) AIR is the modernization of the Air Facility System (AFS) into the Integrated Compliance Information System (ICIS). AIR contains enforcement, compliance, and permit data for stationary sources of air pollution regulated by the EPA, State, and Local air pollution agencies.
The New York Department of Environmental Conservation Facility Information System (FIS) database houses all information about facilities that are regulated or of environmental interest to the state of New York.
The Air Facility System (AFS) contains compliance and permit data for stationary sources of air pollution regulated by the EPA, state, and local air pollution agencies.

NYC PARKS-FERRY POINT PARK (Continued) **1016137063**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1016137063
Registry ID:	110019835188
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110019835188
Name:	NYC PARKS-FERRY POINT PARK
Address:	500 HUTCHINSON RIVER PKWY
City,State,Zip:	BRONX, NY 10465

A12 **BRONX WHITESTONE BRIDGE** **UST FINDER RELEASE** **1029062796**
1 HUTCHINSON RIVER PKWAY **N/A**
< 1/8 **BRONX, NY 0**
1 ft.

Site 10 of 12 in cluster A

Relative:
Lower

Actual:
11 ft.

UST FINDER RELEASE:

Object ID:	260443
Facility ID:	NY177640
Lust ID:	NY9408139
Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY 0
Address Match Type:	StreetAddress
Reported Date:	1994/09/19 15:59:59+00
Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	0
Domestic Wells within 1500ft:	0
Land Use:	Developed, Medium Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	2
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	Geocode
X Coord:	-73.8356199999999
Y Coord:	40.8111200000001
Latitude:	40.81112
Longitude:	-73.83562

Object ID:	260444
Facility ID:	NY177640

BRONX WHITESTONE BRIDGE (Continued) **1029062796**

Lust ID:	NY9607895
Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY 0
Address Match Type:	StreetAddress
Reported Date:	1996/09/24 15:59:59+00
Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	0
Domestic Wells within 1500ft:	0
Land Use:	Developed, Medium Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	2
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	Geocode
X Coord:	-73.8356199999999
Y Coord:	40.8111200000001
Latitude:	40.81112
Longitude:	-73.83562

Object ID:	260529
Facility ID:	NY177640
Lust ID:	NY100477
Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY 0
Address Match Type:	Not reported
Reported Date:	2001/04/12 15:59:59+00
Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	0
Domestic Wells within 1500ft:	0
Land Use:	Non-Developed
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported

BRONX WHITESTONE BRIDGE (Continued) **1029062796**

WHPA HUC12:	Not reported
Within 100yr Floodplain:	Yes
Tribe:	Not reported
EPA Region:	2
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	State
X Coord:	-73.8318
Y Coord:	40.8050000000001
Latitude:	40.805
Longitude:	-73.8318

A13 **FERRY POINT PARK GOLF COURSE** **NY Spills** **S110243664**
500 HUTCHINSON RIVER PARKWAY **N/A**
< 1/8 **BRONX, NY**
1 ft.

Site 11 of 12 in cluster A

Relative: **Lower**
Actual: **13 ft.**

SPILLS:

Name:	FERRY POINT PARK GOLF COURSE
Address:	500 HUTCHINSON RIVER PARKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0913675 / 2010-03-25
Facility ID:	0913675
Facility Type:	ER
DER Facility ID:	375501
Site ID:	426631
DEC Region:	2
Spill Cause:	Other
Spill Class:	Not reported
SWIS:	0301
Spill Date:	2010-01-10
Investigator:	RVKETANI
Referred To:	Not reported
Reported to Dept:	2010-03-25
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2010-03-25
Spill Record Last Update:	2010-03-25
Spiller Name:	Not reported
Spiller Company:	FUEL OIL COMPANY
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	ROBERT GANTZER
DEC Memo:	3/25/10 - Raphael Ketani. The spill happened on 1/10/10, but wasn't called in until today. According to Robert Gantzer (347) 386-5695 of the NYC Parks

FERRY POINT PARK GOLF COURSE (Continued) **S110243664**

Department, a generator was being filled with diesel and it overflowed onto the bare ground (see pictures in E-docs and report). The affected area was 10' by 20'. He said that Marc Redis of the DEC Div. of Solid Waste told him to clean it up. Mr. Redis was at the site because it's a Part 360 site. The cleanup was undertaken during January, but it wasn't discovered until sometime later (Mr. Gantzer didn't specify how much later) that there was more contamination below ground. So more digging took place. He said that they dug down one and a half feet to remove all of the contamination, and all of the contaminated soil was put into drums. I told Mr. Gantzer that, in the future, a spill has to be reported to the Spills Hotline within 2 hours of the occurrence. He said that he will report quickly next time. I spoke to Mr. Redis. He said that the Parks Department did dig out the area. As the contaminated soil has been remediated, I am closing the case. 3/25/10-Vought-Matter referred to Solid Waste who will supervise cleanup as per DEC Austin.

Remarks: CLEANUP DONE - MATERIAL IN DRUMS

All Materials:

Site ID:	426631
Operable Unit ID:	1182307
Operable Unit:	01
Material ID:	2176470
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5.00
Units:	G
Recovered:	Not reported
Resource Affected:	Soil
Oxygenate:	Not reported

A14 **NYC PARKS-FERRY POINT PARK** **PFAS ECHO** **1027398613**
N/A

< 1/8
1 ft.

BRONX, NY

Site 12 of 12 in cluster A

Relative:
Lower

Actual:
14 ft.

PFAS ECHO:

Name:	NYC PARKS-FERRY POINT PARK
Address:	Not reported
City,State,Zip:	BRONX, NY
Latitude:	40.81146
Longitude:	-73.83536
Count:	1
County:	BRONX
Status:	Inactive
Region:	02
Industry:	Waste Management
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110019835188

NYC PARKS-FERRY POINT PARK (Continued) **1027398613**

Facility Percent Minority:	77.092
Facility Derived Tribes:	-
Facility Population:	21838.56
EPA Programs:	CAA
Federal Facility:	No
Federal Agency:	-
Facility FIPS Code:	36005
Facility Indian Country Flag:	N
Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	02030102
Facility Derived WBD:	020301020105
Facility Derived CD113:	14
Facility Derived CB2010:	360050110001012
Facility Major Flag:	-
Facility Active Flag:	-
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	Y
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AIR IDS:	NY0000002600600014
CAA Permit Types:	Minor Emissions
CAA NAICS:	999999
CAA SICS:	4953
NPDES IDS:	-
CWA Permit Types:	-
CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	-
RCRA Permit Types:	-
RCRA NAICS:	-
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-
TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	-

NYC PARKS-FERRY POINT PARK (Continued) **1027398613**

EJSCREEN Flag US: N

EJSCREEN Report:

B15 **WHITESTONE BRIDGE - BX** **NY LTANKS** **S102671512**
NNW **WHITESTONE BR** **N/A**
< 1/8 **BRONX (County), NY**
0.021 mi.
109 ft. **Site 1 of 2 in cluster B**

Relative:
Lower

Actual:
15 ft.

LTANKS:

Name:	WHITESTONE BRIDGE - BX
Address:	WHITESTONE BR
City,State,Zip:	NY
Spill Number/Closed Date:	8912020 / 1990-03-19
Facility ID:	8912020
Site ID:	295754
Spill Date:	1990-03-19
Spill Cause:	Tank Overfill
Spill Source:	Commercial Vehicle
Spill Class:	Not reported
Cleanup Ceased:	1990-03-19
SWIS:	0301
Investigator:	TAYLOR
Referred To:	Not reported
Reported to Dept:	1990-03-19
CID:	Not reported
Water Affected:	EAST RIVER
Spill Notifier:	Federal Government
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	True
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1990-03-19
Spill Record Last Update:	1990-05-09
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	239341
DEC Memo:	Not reported
Remarks:	COMMERCIAL VEHICLE PULLED OFF ROAD SPILLING OIL FROM SADDLE TK INTO DRAIN - NYFD HOSED SPILLAGE INTO ROADWAY DRAIN - NO RESPONSE FROM DEC NECESSARY.

All Materials:

Site ID:	295754
Operable Unit ID:	937785
Operable Unit:	01
Material ID:	441502
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported

WHITESTONE BRIDGE - BX (Continued) **S102671512**

Material FA:	Petroleum
Quantity:	65.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

B16
NNW
< 1/8
0.021 mi.
109 ft.

WHITESTONE BRIDGE
TOLL PLAZA
BRONX, NY

Site 2 of 2 in cluster B

NY Spills **S104952344**
N/A

Relative:
Lower

Actual:
15 ft.

SPILLS:

Name:	WHITESTONE BRIDGE
Address:	TOLL PLAZA
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0011525 / 2001-06-01
Facility ID:	0011525
Facility Type:	ER
DER Facility ID:	89172
Site ID:	100434
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	2001-01-25
Investigator:	KMFOLEY
Referred To:	Not reported
Reported to Dept:	2001-01-25
CID:	205
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2001-01-25
Spill Record Last Update:	2001-08-13
Spiller Name:	SAME
Spiller Company:	CON ED
Spiller Address:	4 IRVING PLACE
Spiller Company:	001
Contact Name:	CALLER
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was FOLEY CON ED E2MIS REPORT 1-25-01 1pt. of dielectric fluid spilled from switch in customer owned vault #2635 onto floor of vault. No environmental impact. Samples will be taken and tag placed. 1-25-01 Job closed out because it was opened on the wrong site. It should have been opened on the BEDS. The new incident # is 135220 on BxEDS.
Remarks:	VAULT 2635, HAS LEAK ON SWITCH. CON ED # 135216.

WHITESTONE BRIDGE (Continued) **S104952344**

All Materials:

Site ID:	100434
Operable Unit ID:	833575
Operable Unit:	01
Material ID:	541834
Material Code:	0541A
Material Name:	dielectric fluid
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

---

17 NNW < 1/8 0.053 mi. 279 ft. **CABLEVISION** **NY AST** **U003397186**
500-510 BRUSH AVENUE **N/A**
BRONX, NY 10465

Relative: Lower
Actual: 8 ft.

AST:

Name:	CABLEVISION
Address:	500-510 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-603460
Program Type:	PBS
UTM X:	597921.36616
UTM Y:	4519027.86794
Expiration Date:	05/05/2028
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	25376
Affiliation Type:	Mail Contact
Company Name:	DE-CON REALTY COMPANY
Contact Type:	Not reported
Contact Name:	MICHAEL P. CONTILLO
Address1:	550 BRUSH AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10465
Country Code:	001
Phone:	(718) 490-1444
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-03-07

Site Id:	25376
Affiliation Type:	Facility Operator
Company Name:	CABLEVISION
Contact Type:	Not reported

CABLEVISION (Continued) **U003397186**

Contact Name:	CABLEVISION
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 991-6000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-03-07

Site Id:	25376
Affiliation Type:	Emergency Contact
Company Name:	500 BRUSH LLC
Contact Type:	Not reported
Contact Name:	MICHAEL P. CONTILLO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(516) 626-2418
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-03-07

Site Id:	25376
Affiliation Type:	Facility Owner
Company Name:	500 BRUSH LLC
Contact Type:	OWNER
Contact Name:	MICHAEL P. CONTILLO
Address1:	550 BRUSH AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10465
Country Code:	001
Phone:	(718) 409-1444
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-03-07

Tank Info:

Tank Number:	001
Tank Id:	54442
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

E01 - Piping Secondary Containment - Diking (AG only)

CABLEVISION (Continued) **U003397186**

C01 - Pipe Location - Aboveground
I05 - Overfill - Vent Whistle
A01 - Tank Internal Protection - Epoxy Liner
G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None

Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	03/01/1989
Capacity Gallons:	3000
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	#2 fuel oil (on-site consumption)

Tank Number:	002
Tank Id:	54443
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

A01 - Tank Internal Protection - Epoxy Liner
G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
E01 - Piping Secondary Containment - Diking (AG only)
I05 - Overfill - Vent Whistle
C01 - Pipe Location - Aboveground
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None

Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	03/01/1989
Capacity Gallons:	3000
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported

CABLEVISION (Continued) **U003397186**

Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	#2 fuel oil (on-site consumption)

C18 NNW < 1/8 0.079 mi. 418 ft. **CON EDISON** **RCRA NonGen / NLR** **1012185619**
555 HUTCHINSON RIVER PKWY **NYP004164521**
BRONX, NY 10451

Site 1 of 2 in cluster C

Relative: Lower

Actual: 8 ft.

RCRA Listings:

Date Form Received by Agency:	20160601
Handler Name:	Con Edison
Handler Address:	Hutchinson River Pkwy
Handler City,State,Zip:	BRONX, NY 10451
EPA ID:	NYP004164521
Contact Name:	DAVID DUKE
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	917-559-8971
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Ny
State District:	NYSDEC R2
Mailing Address:	4 IRVING PL, RM 828
Mailing City,State,Zip:	NEW YORK, NY 10003
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline

CON EDISON (Continued) **1012185619**

202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20160602
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Historic Generators:

Receive Date:	20090324
Handler Name: CON EDISON	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20160601
Handler Name: CON EDISON	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations:	No Violations Found

CON EDISON (Continued) **1012185619**

Evaluation Action Summary:
Evaluations: No Evaluations Found

C19 NNW < 1/8 0.079 mi. 418 ft. **VAULT #2232** **NY AST** **U003383789**
555 HUTCHINSON RIVER PKWY **NY Spills** **N/A**
BRONX, NY

Site 2 of 2 in cluster C

Relative: Lower

Actual: 8 ft.

AST:

Name:	CAPRI WHITESTONE LLC
Address:	555 HUTCHINSON RIVER PARKWAY
City,State,Zip:	BRONX, NY 10465
Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-062987
Program Type:	PBS
UTM X:	598079.55693
UTM Y:	4519027.24774
Expiration Date:	11/13/2024
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	1219
Affiliation Type:	Mail Contact
Company Name:	CAPRI WHITESTONE LLC
Contact Type:	Not reported
Contact Name:	DAVID AZMAN
Address1:	325 EAST 104TH STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10029
Country Code:	001
Phone:	(212) 220-2569
EMail:	DAZMAN@LIBERTY1GROUP.COM
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2019-10-07

Site Id:	1219
Affiliation Type:	Facility Operator
Company Name:	555 HUTCHINSON RIVER PARKWAY
Contact Type:	Not reported
Contact Name:	CAPRI WHITESTONE LLC
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 597-0600
EMail:	Not reported
Fax Number:	Not reported
Modified By:	ACDANIEL
Date Last Modified:	2018-07-11

VAULT #2232 (Continued) **U003383789**

Site Id:	1219
Affiliation Type:	Emergency Contact
Company Name:	CAPRI WHITESTONE LLC
Contact Type:	Not reported
Contact Name:	DAVID AZMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(212) 220-2569
EMail:	Not reported
Fax Number:	Not reported
Modified By:	ACDANIEL
Date Last Modified:	2018-07-11

Site Id:	1219
Affiliation Type:	Facility Owner
Company Name:	CAPRI WHITESTONE LLC
Contact Type:	CAPRI WHITESTONE LLC MEMBER
Contact Name:	DAVID AZMAN
Address1:	325 EAST 104TH STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10029
Country Code:	001
Phone:	(212) 996-6456
EMail:	Not reported
Fax Number:	Not reported
Modified By:	ACDANIEL
Date Last Modified:	2018-07-11

Tank Info:

Tank Number:	001
Tank Id:	2261
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

H99 - Tank Leak Detection - Other
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
E00 - Piping Secondary Containment - None
G03 - Tank Secondary Containment - Vault (w/o access)
L09 - Piping Leak Detection - Exempt Suction Piping

Tank Location: Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.

VAULT #2232 (Continued) **U003383789**

Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	06/20/1975
Capacity Gallons:	6000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	#2 fuel oil (on-site consumption)

SPILLS:

Name:	VAULT #2232
Address:	555 HUTCHINSON RIVER PKWY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0813834 / 2009-06-08
Facility ID:	0813834
Facility Type:	ER
DER Facility ID:	360753
Site ID:	411543
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	2009-03-23
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	2009-03-23
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2009-03-23
Spill Record Last Update:	2009-06-08
Spiller Name:	ERT
Spiller Company:	CON ED
Spiller Address:	555 HUTCHINSON RIVER PKWY
Spiller Company:	999
Contact Name:	ERT
DEC Memo:	5/11/09 - Austin - EMIS reports that vault was cleaned and washed, with proper disposal for fluids - all within vault - close - end
Remarks:	CALLER STATES THAT DUE TO A BROKEN FEEDER ABOUT 5 GALLONS OF PRODUCT IS SPILLING TO THE VAULT. UNK IF IT CONTAINES PCBS CLEAN UP AND REPAIR PENDING.

All Materials:

Site ID:	411543

VAULT #2232 (Continued) **U003383789**

Operable Unit ID:	1168016
Operable Unit:	01
Material ID:	2159633
Material Code:	0020A
Material Name:	transformer oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5.00
Units:	G
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

D20 **BRONX WHITESTONE BRIDGE** **NY UST** **U004062136**
NW **ONE HUTCHINSON RIVER PARKWAY** **N/A**
< 1/8 **BRONX, NY 10465**
0.082 mi.
434 ft. **Site 1 of 2 in cluster D**

Relative:
Lower

Actual:
6 ft.

UST:

Name:	BRONX WHITESTONE BRIDGE
Address:	ONE HUTCHINSON RIVER PARKWAY
City,State,Zip:	BRONX, NY 10465
Id/Status:	2-481645 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	09/06/2025
UTM X:	597911.06250
UTM Y:	4519009.50000
Site Type:	Other

Affiliation Records:

Site Id:	21547
Affiliation Type:	Mail Contact
Company Name:	MTA BRIDGES & TUNNELS (TBTA)
Contact Type:	Not reported
Contact Name:	PASHKO R. CAMAJ MGR. S&H COMPLIANCE
Address1:	SAFETY & HEALTH DEPT.
Address2:	ROBERT MOSES BLDG, ROOM 115
City:	RANDALLS ISLAND
State:	NY
Zip Code:	10035
Country Code:	001
Phone:	(212) 360-3073
EMail:	PCAMAJ@MTABT.ORG
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2020-09-03

Site Id:	21547
Affiliation Type:	Facility Owner
Company Name:	MTA BRIDGES AND TUNNELS (TBTA)
Contact Type:	MANAGER
Contact Name:	GEORGE BASSIL
Address1:	2 BROADWAY
Address2:	Not reported

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

City:	NEW YORK
State:	NY
Zip Code:	10004
Country Code:	001
Phone:	(212) 360-3073
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2020-09-03

Site Id:	21547
Affiliation Type:	Emergency Contact
Company Name:	MTA BRIDGES AND TUNNELS (TBTA)
Contact Type:	Not reported
Contact Name:	PASHKO R. CAMAJ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(212) 360-3073
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2015-09-01

Site Id:	21547
Affiliation Type:	Facility Operator
Company Name:	BRONX WHITESTONE BRIDGE
Contact Type:	Not reported
Contact Name:	GEORGE BASSIL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 904-4304
EMail:	Not reported
Fax Number:	Not reported
Modified By:	AYLAGATI
Date Last Modified:	2017-06-07

Tank Info:

Tank Number:	1
Tank ID:	65746
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	12/01/1941
Date Tank Closed:	04/01/2001
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MJGRIFFI
Last Modified: 05/09/2022

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number: 10
Tank ID: 65755
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 2000
Install Date: 03/01/1995
Date Tank Closed: 04/06/2009
Registered: True
Tank Location: Underground
Tank Type: Equivalent technology
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MJGRIFFI
Last Modified: 05/09/2022

Equipment Records:

I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
H05 - Tank Leak Detection - In-Tank System (ATG)
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A03 - Tank Internal Protection - Fiberglass Liner (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number: 11
Tank ID: 65756

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	20000
Install Date:	12/17/1999
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	2711
Common Name of Substance:	Biodiesel (Heating, On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
F04 - Pipe External Protection - Fiberglass
J02 - Dispenser - Suction Dispenser
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
C02 - Pipe Location - Underground/On-ground
E04 - Piping Secondary Containment - Double walled UG
H05 - Tank Leak Detection - In-Tank System (ATG)
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number:	12
Tank ID:	65757
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	1000
Install Date:	12/17/1999
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	21
Date Test:	01/20/2012
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

E04 - Piping Secondary Containment - Double walled UG
K01 - Spill Prevention - Catch Basin

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

L09 - Piping Leak Detection - Exempt Suction Piping
I02 - Overfill - High Level Alarm
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
F04 - Pipe External Protection - Fiberglass
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
H05 - Tank Leak Detection - In-Tank System (ATG)
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number:	13
Tank ID:	65758
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	2500
Install Date:	12/17/1999
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	2710
Common Name of Substance:	Biodiesel
Tightness Test Method:	21
Date Test:	01/20/2012
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

L09 - Piping Leak Detection - Exempt Suction Piping
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
J02 - Dispenser - Suction Dispenser
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
E04 - Piping Secondary Containment - Double walled UG
H05 - Tank Leak Detection - In-Tank System (ATG)
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number:	14
Tank ID:	65759
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	2500
Install Date:	06/01/1996
Date Tank Closed:	05/08/2006

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	21
Date Test:	08/07/2003
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

E04 - Piping Secondary Containment - Double walled UG
K01 - Spill Prevention - Catch Basin
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
J02 - Dispenser - Suction Dispenser
F04 - Pipe External Protection - Fiberglass
C02 - Pipe Location - Underground/On-ground
I02 - Overfill - High Level Alarm
B04 - Tank External Protection - Fiberglass
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A03 - Tank Internal Protection - Fiberglass Liner (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number:	2
Tank ID:	65747
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	12/01/1941
Date Tank Closed:	04/01/2001
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

Tank Number:	3
Tank ID:	65748
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	3000
Install Date:	12/01/1941
Date Tank Closed:	05/01/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

F00 - Pipe External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None

Tank Number:	4
Tank ID:	65749
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	3000
Install Date:	12/01/1941
Date Tank Closed:	04/04/1994
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None

Tank Number:	5
Tank ID:	65750
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	01/01/1950
Date Tank Closed:	12/16/1993
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number:	6
Tank ID:	65751
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	01/01/1950
Date Tank Closed:	12/16/1993
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

Equipment Records:

F00 - Pipe External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None

Tank Number:	7
Tank ID:	65752
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	12/01/1987
Date Tank Closed:	05/01/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
I04 - Overfill - Product Level Gauge (A/G)
D10 - Pipe Type - Copper

Tank Number:	8
Tank ID:	65753
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	12/01/1941
Date Tank Closed:	05/01/1996
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
I04 - Overfill - Product Level Gauge (A/G)

Tank Number:	9
Tank ID:	65754
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	12/01/1941
Date Tank Closed:	05/01/1996
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

B00 - Tank External Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
I04 - Overfill - Product Level Gauge (A/G)

D21 NW < 1/8 0.082 mi. 434 ft. | **BRONX WHITESTONE BRIDGE**
ONE HUTCHINSON RIVER PARKWAY
BRONX, NY 10465

Site 2 of 2 in cluster D

NY AST | **A100293375**
N/A

Relative: Lower

Actual: 6 ft.

AST:

Name:	BRONX WHITESTONE BRIDGE
Address:	ONE HUTCHINSON RIVER PARKWAY
City,State,Zip:	BRONX, NY 10465
Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-481645
Program Type:	PBS
UTM X:	597911.06250
UTM Y:	4519009.50000
Expiration Date:	09/06/2025
Site Type:	Other

Affiliation Records:

Site Id:	21547
Affiliation Type:	Mail Contact
Company Name:	MTA BRIDGES & TUNNELS (TBTA)
Contact Type:	Not reported
Contact Name:	PASHKO R. CAMAJ MGR. S&H COMPLIANCE
Address1:	SAFETY & HEALTH DEPT.
Address2:	ROBERT MOSES BLDG, ROOM 115
City:	RANDALLS ISLAND
State:	NY
Zip Code:	10035
Country Code:	001
Phone:	(212) 360-3073
EMail:	PCAMAJ@MTABT.ORG
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2020-09-03

Site Id:	21547
Affiliation Type:	Facility Owner
Company Name:	MTA BRIDGES AND TUNNELS (TBTA)
Contact Type:	MANAGER
Contact Name:	GEORGE BASSIL
Address1:	2 BROADWAY
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10004
Country Code:	001
Phone:	(212) 360-3073
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2020-09-03

Site Id:	21547
Affiliation Type:	Emergency Contact
Company Name:	MTA BRIDGES AND TUNNELS (TBTA)
Contact Type:	Not reported
Contact Name:	PASHKO R. CAMAJ

BRONX WHITESTONE BRIDGE (Continued) **A100293375**

Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(212) 360-3073
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2015-09-01

Site Id:	21547
Affiliation Type:	Facility Operator
Company Name:	BRONX WHITESTONE BRIDGE
Contact Type:	Not reported
Contact Name:	GEORGE BASSIL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 904-4304
EMail:	Not reported
Fax Number:	Not reported
Modified By:	AYLAGATI
Date Last Modified:	2017-06-07

Tank Info:

Tank Number:	15
Tank Id:	209252
Material Code:	2711
Common Name of Substance:	Biodiesel (Heating, On-Site Consumption)

Equipment Records:

	F00 - Pipe External Protection - None
	K99 - Spill Prevention - Other
	E01 - Piping Secondary Containment - Diking (AG only)
	L00 - Piping Leak Detection - None
	G01 - Tank Secondary Containment - Diking (Aboveground)
	H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
	A00 - Tank Internal Protection - None
	B01 - Tank External Protection - Painted/Asphalt Coating
	D01 - Pipe Type - Steel/Carbon Steel/Iron
	I04 - Overfill - Product Level Gauge (A/G)
	J00 - Dispenser - None
	C01 - Pipe Location - Aboveground
Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	12/17/1999
Capacity Gallons:	900

BRONX WHITESTONE BRIDGE (Continued) **A100293375**

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	diesel

E22
ESE
< 1/8
0.113 mi.
597 ft.

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY
1 HUTCHINSON RIVER PKWY
BRONX, NY 10465

NY LTANKS **S102150368**
NY Spills **N/A**
NY MANIFEST

Site 1 of 3 in cluster E

Relative:
Higher

Actual:
32 ft.

LTANKS:

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9408139 / 2003-11-06
Facility ID:	9408139
Site ID:	249980
Spill Date:	1994-09-19
Spill Cause:	Tank Test Failure
Spill Source:	Non Major Facility > 1,100 gal
Spill Class:	C3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	JMROMMEL
Referred To:	Not reported
Reported to Dept:	1994-09-19
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1994-10-28
Spill Record Last Update:	2004-06-21
Spiller Name:	GEORGE BASIL
Spiller Company:	TRIBOROUGH AUTHORITY
Spiller Address:	RANDALL'S ISLAND
Spiller County:	001
Spiller Contact:	ROBERT TOZZI
Spiller Phone:	(718) 904-4304
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	177640
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL This site was reassigned from Sigona to Rommel on 1/7/2004. This spill site investigation has been consolidated under Spill No. 9801266.
Remarks:	TTF WILL UNDERCOVER & ISOLATE, RETEST

All TTF:

Facility ID:	9408139

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Spill Number:	9408139
Spill Tank Test:	1543152
Site ID:	249980
Tank Number:	001
Tank Size:	550
Material:	Not reported
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	01
Test Method 2:	Petro-Tite/Petro Comp
Leak Rate:	-.11
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

Facility ID:	9408139
Spill Number:	9408139
Spill Tank Test:	1543153
Site ID:	249980
Tank Number:	002
Tank Size:	550
Material:	Not reported
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	01
Test Method 2:	Petro-Tite/Petro Comp
Leak Rate:	-.11
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	249980
Operable Unit ID:	1005783
Operable Unit:	01
Material ID:	377581
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9607895 / 2003-11-06
Facility ID:	9607895
Site ID:	249984

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Spill Date:	1996-09-24
Spill Cause:	Tank Test Failure
Spill Source:	Non Major Facility > 1,100 gal
Spill Class:	B3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1996-09-24
CID:	322
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1996-09-24
Spill Record Last Update:	2004-06-21
Spiller Name:	BOBBIE ATHEY
Spiller Company:	MTA BRIDGES & TUNNLE
Spiller Address:	RANDALLS ISLAND
Spiller County:	001
Spiller Contact:	PAUL STEFANESCU
Spiller Phone:	(212) 360-2924
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	177640
DEC Memo:	Not reported
Remarks:	Tank Test Failure Tank No. 2 also tested - Leak rate -.106 they will uncover, isolate and retest

All TTF:

Facility ID:	9607895
Spill Number:	9607895
Spill Tank Test:	1544776
Site ID:	249984
Tank Number:	Not reported
Tank Size:	0
Material:	0008
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	01
Test Method 2:	Petro-Tite/Petro Comp
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	249984
Operable Unit ID:	1038996
Operable Unit:	01
Material ID:	347151
Material Code:	0008

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

SPILLS:

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0100477 / 2014-03-18
Facility ID:	0100477
Facility Type:	ER
DER Facility ID:	177640
Site ID:	214399
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	2001-04-12
Investigator:	RVKETANI
Referred To:	031814 CASE APPROVED FOR CLOSURE
Reported to Dept:	2001-04-12
CID:	397
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	0
Date Entered In Computer:	2001-04-12
Spill Record Last Update:	2014-03-18
Spiller Name:	GEORGE BASIL
Spiller Company:	MTA BRIDGES & TUNNELS
Spiller Address:	RANDALLS ISLAND
Spiller Company:	001
Contact Name:	GEORGE BASIL
DEC Memo:	10/18/05: This spill was originally closed by Anthony Sigona as part of a consolidation effort. The spill was reassigned to Tibbe. The investigation (approved by Sigona)that was performed was inadequate to identify the existance of contamination. The spill has been re-opened and further investigation is necessary. 11/12/10 - spill re-assigned from Tibbe to Joe O'Connell 11/16/11 - Raphael Ketani. I tried to contact Colleen Channer of the Triborough Bridge and Tunnel Authority (TBTA) (212) 878-1035, but I could only leave a message with her secretary. Her mailing address is: MTA Legal Department, 347 Madison Avenue, 9th Floor, NY, 10017. The

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

TBTA is part of the MTA.
11/17/11 - Raphael Ketani. I spoke to Ms. Channer. I told her that the DEC still had two open spill
cases, #0100477 and #9801266, and that we were seeking documentation for these cases. I told her
that the spills may involve tanks 1 to 4 on the west side of the northern approach to the bridge.
She said that she will look for the documentation and get back to me.
1/13/12 - Raphael Ketani. Ms.
Channer (212) 878-1035 called me. She said that she had found some documentation for cases #0100477
and #9801266. We went over the documents that she had and that the DEC had. Some were the same. I
told her that #0100477 was open because the consultant used the TCLP method to process the samples,
rather than methods 8260 and 8270, and because not enough samples were taken and no groundwater
samples were taken in the vicinity of tanks 1 and 2. I added that #9801266 was open because the
source of the free floating product that had entered a utility vault was never found. Tanks 3, 4,
and 7 had been removed in the nineteen nineties. However a full soil and groundwater investigation,
and transmission lines investigation for product had never been done. Ms. Channer asked that I send
the MTA a letter indicating the work that needs to be done and which documents the DEC still needs.
Her address is: Senior Environmental Counsel, MTA,347 Madison Avenue, 9th Floor, NY, 10017. 1/17/12
- Raphael Ketani. I sent a letter to Ms. Channer requesting that the MTA submit a work plan to
conduct a soil and groundwater investigation in the vicinity of the former locations of USTs #1 and
#2. I also put in the letter a request for a work plan to conduct an investigation of the former
vicinity of USTs #3, #4 and #7 (spill #9801266). 1/19/12 - Raphael Ketani. I was notified that
Peter Bass, Director of the Environmental Policy and Compliance group at the MTA, should also
receive a copy of the letter to Ms. Channer. So I sent the letter to him. His address is also 347
Madison Avenue. 1/30/12 - Raphael Ketani. Ms. Channer and the MTA environmental engineer, George
Bassil, called me today to request an extension for submitting the work plan as their consultant
was heavily involved with another MTA project and could not devote much attention to the Whitestone
Bridge projects. I granted the MTA a two month extension of the deadline for submitting the work
plan. This set a deadline of April 16. Mr. Bassil's contact information is: MTA, 2 Broadway, 23rd
Floor, NY, 10004, (646) 252-7020. 4/25/12 - Raphael Ketani. Today I received 4/16/12 Environmental
Site Investigation Work Plan from LiRo Engineers. I began my review. 5/15/12 - Raphael Ketani. I
finished my review of the ESIWP. LiRo proposed to perform 6 soil borings. Three in the vicinity of

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

the grave for the former tank #3 and its general spill area, and three in the vicinity of the grave
for the former tank #2 and its general spill area. Soil and groundwater samples will be collected.
The soil sample with the highest PID reading will be submitted for analysis and one groundwater
sample from each boring. Samples will be analyzed for STARS list VOCs by method 8260 and for STARS
list SVOCs by method 8270. The results will be compared to CP-51 standards. I disapproved the
ESIWP. First, the list of analytes to be tested should be the expanded lists for VOCs and SVOCs.
Secondly, there were not enough borings planned to properly cover each spill area. Lastly, the
areas affected by the spills need to be delineated. I drafted a disapproval letter for the review
of Hassan Hussein, EE III and head of the Hazardous Materials Unit. I set a deadline of June 22 for
the submission of a revised SIWP. Mr. Hussein approved the letter and it was sent out today.
5/18/12 - Raphael Ketani. Mr. Wesolowski of LiRo Engineering (718) 321-3136, ext 242 called me
today regarding my 5/15/12 response letter for the ESIWP. He said that the area of tanks 4 and 7
has a building over it. The building was constructed in 1998 after the tanks were removed. The
building is an office for their security group and there are many utilities under the floor.
Therefore, it would be very difficult to do any borings there. I told him that LiRo and the MTA
should go ahead and do the work for tanks 1 to 3 anyway. He said that this will be done, but he was
concerned about the request to do borings around tanks 4 and 7. I told him that horizontal borings
may be the only way to sample around the tank graves for these former tanks. I added that we need
some information in order to tell us whether elevated levels of contaminants are still at these
locations. I told him to go ahead with the work around the other tanks and to talk to the MTA and
see what can be done. He said that he will do this. With that, the conversation ended. 6/27/12 -
Raphael Ketani. Mr. Wesolowski sent me a response letter to the DEC ESIWP review letter dated
5/15/12. Attached to the LiRo Engineering response letter was a revised ESIWP dated 6/22/12. I
reviewed both documents. LiRo proposes to do many more borings around tanks #1, #2 and #3.
Additional borings around tanks #4 and #7 will be performed only if contamination appears to be
emanating from them. However, as these two tanks are under the building, the tone of the letter
suggested that the idea of boring around these tanks will be open for discussion. Mr. Wesolowski
also wrote that all environmental samples will be tested for the expanded lists of VOCs and SVOCs.
Also, drilling will proceed deeper than the 20 feet down that was

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

originally planned if
contamination is found at that level. Work will start within 60 days of the approval of the revised
ESIWP. I drafted a response letter approving the revised ESIWP and stating that indoor air PID
surveying should be done in the areas of the building which are above tanks #4 and #7. The letter
was submitted to Mr. Hussein for his approval. Mr. Hussein approved the letter and it was sent out.
8/3/12 - Raphael Ketani. Mr. Wesolowski sent me a letter dated 7/18/12. This letter was LiRo's
response to the DEC 6/7/12 letter approving the June 22 ESIWP. In the letter, Mr. Wesolowski
described the methodology for doing the indoor air sampling with the PID meter. Specifically, if
elevated readings are detected that are not attributed to materials stored in the building, then
air sampling will take place for 1 hour at each location of concern. If there are no elevated
detections, then air sampling will take place at a minimum of 8 sampling stations for a period of
30 minutes each using the PID meter. These 8 or more stations will be over the former locations of
USTs #4 and #7. I found the letter plan to be acceptable and submitted a draft letter to Mr.
Hussein for his review. The letter approved the methodology and also requested that the sampling
take place during a period when air exchange (due to people opening doors to rooms or ventilation)
is not taking place. I stated that this is in order to have stable conditions for the air sampling.
I also added that if the indoor air detections are above 500 ppb or 0.5 ppm, then the NYC DEP
Hotline should be contacted and a work plan must be submitted for a more extensive air
investigation. 8/7/12 - Raphael Ketani. Mr. Hussein approved the letter and it was sent out today.
11/17/12 - Raphael Ketani. I received the 11/13/12 Site Investigation Summary Report from Li Ro.
Soil borings, groundwater sampling and indoor air sampling were conducted on September 12, 13 and
17. Fourteen borings were performed down to 20 feet bgs. Temporary 1 inch monitoring wells were
installed. After the sampling was completed, the borings were filled in and the wells were
abandoned. Soil samples were recovered from LSB-01, 03, 04, 06 to 09, 13, and 15 to 17. Borings
could not be performed at LSB-02, 05, 10 to 12 and 14 due to refusal - it was believed that the
foundations were encountered at these locations. If no visual evidence or PID detections were
encountered in a boring, then soil samples were collected at the water table interface and at 20
feet bgs. The water table was encountered at 3 to 9 feet bgs. Flow was expected to be to the
southwest to the East River. The indoor air results were obtained by sampling at each station for

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

30 minutes, except for the entrance area which was sampled for 15 minutes. There were no
detections. Soil samples were collected from 5.5 feet to 20 feet below grade. The VOC results were
either non-detect or well below the CP-51 standards. The SVOC results were either non-detect, well
below the standards or just above the standards. For total results, the most contaminated soil
horizon at LSB-01 was at 7 feet bgs and LSB-03 was worst at 20 feet bgs. The groundwater samples
from LSB-01, LSB-03 and LSB-17 had 280 ppb, 260 ppb and 210 ppb of naphthalene, respectively. The
rest of the VOC results and the SVOC results were either non-detect or slightly above the GW
standards to two digits. From the data in the report, it appears that there is a source of
groundwater contamination. I drafted a letter to Mr. Bassil and to Mr. Wesolowski approving the
SISR and requesting that groundwater contamination delineation take place. The draft letter was
submitted to Mr. Hussein for his approval. 12/4/12 - Raphael Ketani. The letter was approved by Mr.
Hussein and was sent out with a deadline of January 4, 2013 for submission of a work plan for
delineating the groundwater contamination. 1/9/2013 - Raphael Ketani. I reviewed the LiRo 1/4/13
Supplemental Environmental Site Investigation Work Plan. LiRo plans to install 3 wells. One well
will be upgradient of LSB-17, one well will be downgradient of LSB-17 and one well will be
downgradient of locations LSB-1 and LSB-3. A maximum of 2 soil samples and 1 groundwater sample
will be taken from each proposed well location (MW-1 to MW-3). If no contamination is found at a
location, then one soil sample will be taken from just above the water table. The water table is
believed to be at about 8 feet bgs. I found the work plan to be acceptable and drafted a letter for
the review of Mr. Hussein approving the work plan and requesting that each well be surveyed and a
groundwater flow map be constructed. 1/11/13 - Raphael Ketani. Mr. Hussein approved the letter and
it was sent out today. 12/23/13 - Raphael Ketani. As there has been no correspondence from Martin
Wesolowski of LiRo Engineering (718) 321-3136, ext 242 regarding conducting the work that was
described in the 1/4/13 SESIWP, I sent an e-mail to Colleen Channer (legal division Triborough
Bridge and Tunnel Authority (TBTA) (212) 878-1035), Peter Bass (Director of Environmental Policy
and Compliance) and George Bassil (MTA environmental engineer (646) 252-7020) requesting that the
work start by February 3, 2014, or else the spill cases will be referred to the Office of General
Counsel for legal action. Later, Mr. Wesolowski responded by e-mail and stated that the TBTA was
obtaining the funding to do the approved work. The work is scheduled

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

to take place during early
January 2014. 1/7/14 - Raphael Ketani. Mr. Wesolowski sent me an e-mail stating that the agreed
upon work will take place on 1/21/14. 1/21/14 - Raphael Ketani. Mr. Wesolowski sent me an e-mail
stating that they had completed locating the utilities and doing the markouts for the 3 planned
wells. Due to the snowy weather, the actual work will not start until 1/23/14. 1/23/14 - Raphael
Ketani. Mr. Wesolowski sent me an e-mail stating that the wells were installed today and that
groundwater sampling will take place in two weeks. A report will be sent to the DEC in February
2014. 3/7/14 - Raphael Ketani. I reviewed the 3/6/14 LiRo Engineers, Inc. Supplemental
Environmental Site Investigation Report. The supplemental investigation took place in order to
further delineate the extent of the groundwater contamination at 3 specific locations. Borings SB-1
to SB-3 were installed on 1/23/14. None of the samples had odors or PID hits. These borings were
turned into wells MW-1 to MW-3 and developed on 1/29/14. The wells were sampled on 2/12/14. All of
the soil and groundwater samples were analyzed via methods 8260B and 8270C. The soil samples were
almost entirely non-detect for VOCs. The SVOC hits were also almost entirely non-detect with hits
that were well below the CP-51 unrestricted soil standards. The groundwater results for all of the
samples were almost entirely non-detect for the VOCs and the SVOCs. I sent an e-mail to Mr. Bassil
and Mr. Wesolowski stating that the Supplemental Environmental SIR had been approved, but the
Department was a little concerned about some past naphthalene results which had been from samples
taken from wells LSB-1, LSB-3 and LSB-17. Later, Mr. Wesolowski responded by e-mail that after the
September 2012 sampling event, these temporary wells had been removed. So no additional groundwater
samples could be taken. 3/18/14 - Raphael Ketani. The spill case was presented to Mr. Hussein for
closure. Mr. Hussein reviewed the data and determined that the spill case could be closed. Based
upon the documentation and the data in the case file, it has been determined that the oil spill has
been remediated and that any residual contamination is not a threat to the public or the
environment. Additionally, from the PID screening data, it has been determined that there are no
threats from the vapors of volatile chemicals in the MTA owned and maintained building. Therefore,
the spill case has been closed effective today.

Remarks: Petroleum Contaminated Soils reported as Gasoline was found during Tank Excataion work at the Site.

All Materials:
Site ID: 214399
Operable Unit ID: 839193

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Operable Unit:	01
Material ID:	536184
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9201985 / 2011-11-16
Facility ID:	9201985
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249978
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	1991-06-11
Investigator:	RVKETANI
Referred To:	NEED FURTHER DOCUMENTATION
Reported to Dept:	1992-01-13
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1992-05-20
Spill Record Last Update:	2011-11-17
Spiller Name:	GEORGE BASIL
Spiller Company:	MTA BRIDGES & TUNNEL
Spiller Address:	RANDALLS ISLAND
Spiller Company:	001
Contact Name:	GEORGE BASIL
DEC Memo:	09/04/07: Transferred from Sigona to Tibbe. Spill reopened due to lack of documentation of proper remediation of contamination identified around tanks 5&6, as well as 3, 4 and 7. 11/12/10 - spill re-assigned from Tibbe to Joe O'Connell 11/10/11 - Raphael Ketani. Kevin O'Connor of Action Remediation (516) 781-3000/cell (516) 236-7468 called regarding this spill case and cases #9601373, #9801266 and #0100477. He mentioned that an attempt was made to combine the 4 cases into one by the DEC, but this added to the confusion. The areas of concern are to the

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

west and to the east of the
north end approach to the Whitestone Bridge. He said that many years back, the tanks were taken
out, but the contaminated soil wasn't. I told him that there were almost no documents in the e-docs
and no case notes. He said that he would like to give the DEC all of the documents pertaining to
this site. I asked him to put them on disk. He said that he will. Mr. O'Connor said that he would
like to meet in person to discuss the site. I told him that would be fine. The PBS is #2-481645.
There are at least 6 tanks, according to some notes I saw. 11/16/11 - Raphael Ketani. A meeting
took place with Mr. O'Connor of Action Remediation and Tom O'Brien of Active Environmental
Techologies Inc. (609) 702-1500. Mr. O'Connor did most of the talking for the two consultants. He
explained that Action and Active were originally
sub-sub-sub-contractors for a very large
construction project to widen the northern approach to to the Whitestone Bridge. They were involved
in removing tanks and excavating contaminated soil. The work was done in two weeks. He said that
PBS case #2-481645 lists only four tanks that are still active. These are tank #11 (20,000 gal. UST
with biodiesel), tank #12 (1,000 gal. UST with gasoline), tank #13 (2,500 gal. UST with biodiesel)
and tank #15 (900 gal. UST with biodiesel). Mr. O'Connor added that their companies removed tanks
#10 (north part west side) and #5 and #6 (south part west side). However, tanks #8 and #9 on the
east side had already been removed. So all they did there was soil removal. Mr. O'Brien stated that
when they started digging, they discovered that the upper layer was made of cobbles and the rest
was native marsh clay. Lots of water came out of the layer of cobbles and this proved costly to
handle. The Triborough Bridge and Tunnel Authority refused to pay them for the cost of handling all
of the water from the cobble zone. So the remediation reports were never sent to the TBTA. Steel
sheet pilings were used to keep the holes open at all of the tank excavation locations. Soil end
point samples were taken by boring holes through the sheet piling. Mr. O'Brien showed me some
pictures of the work at the various locatoins. Mr. O'Connor had sent me e-mail pdf files containing
the soil analytical results, groundwater analytical results and some diagrams showing where the
samples had been taken. He also gave me copies of the manifests for the soil that was removed from
all of the locations. However, he said that the manifests were not in any particular order and were
for all of the excavation locations. Mr. O'Connor showed me PBS printouts for tanks #5 and #6. The
closure dates were 12/16/1993. He added that tank #10 was pulled by his company and it was a steel

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

tank with a fiberglass wrapping. It was in very good condition. After the meeting, I reviewed the
Long Island Analytical Labs 4/7/09 and 4/14/09 soil and groundwater analytical results reports.
They were almost entirely non-detect. The few hits that were present were almost entirely below
TAGM limits. I also reviewed the Action Remediation 5/6/09 Closeout Package for tank #10 (2,000
gal. UST in the northern part of the area on the west side) and the Action Remediation 6/1/09 soil
profile and sampling letter for all of the sampling locations. I also reviewed the manifests, other
documents and pictures concerning tanks #5, #6 and #10. Based upon my data in the documents in the
case file, I determined that the great majority of the contamination had been removed and that the
residual contamination was not a threat to the public or the environment. Also, as the groundwater
that had entered the site is part of the groundwater table that is under the landfill which is
Ferry Point Park, I determined that any impacts are not due conditions at the former tank removal
areas. So I closed the spill case. 11/17/11 - Raphael Ketani. I sent Mr. O'Connor and Mr. O'Brien a
spill closure letter for this spill case and case number 9601373.

Remarks: TWO 550'S (# 5 & 6) TAKEN OUT OF SERVICE & EMPTIED.

All Materials:

Site ID:	249978
Operable Unit ID:	969335
Operable Unit:	01
Material ID:	413265
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9601373 / 2011-11-16
Facility ID:	9601373
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249983
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	1996-04-26
Investigator:	RVKETANI
Referred To:	NEED FUIRTHER DOCUMENTATION.

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Reported to Dept:	1996-04-26
CID:	257
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1996-04-26
Spill Record Last Update:	2011-11-17
Spiller Name:	GEORGE BASIL
Spiller Company:	MTA BRIDGES & TUNNEL
Spiller Address:	RANDALLS ISLAND
Spiller Company:	001
Contact Name:	GEORGE BASIL
DEC Memo:	09-04-07: Transferred from Sigona to Tibbe. Spill reopened becuase of lack of documentation concerning proper remediation. 11/12/10 - spill re-assigned from Tibbe to Joe O'Connell 11/10/11 - Raphael Ketani. Kevin O'Connor of Action Remediation (516) 781-3000/cell (516) 236-7468 called regarding this spill case and cases #9201985, #9801266 and #0100477. He mentioned that an attempt was made to combine the 4 cases into one by the DEC, but this added to the confusion. The areas of concern are to the west and to the east of the north end approach to the Whitestone Bridge. He said that many years back, the tanks were taken out, but the contaminated soil wasn't. I told him that there were almost no documents in the e-docs and no case notes. He said that he would like to give the DEC all of the documents pertaining to this site. I asked him to put them on disk. He said that he will. Mr. O'Connor said that he would like to meet in person to discuss the site. I told him that would be fine. The PBS is #2-481645. There are at least 6 tanks, according to some notes I saw. 11/16/11 - Raphael Ketani. A meeting took place with Mr. O'Connor of Action Remediation and Tom O'Brien of Active Environmental Techologies Inc. (609) 702-1500. Mr. O'Connor did most of the talking for the two consultants. He explained that Action and Active were originally sub-sub-sub-contractors for a very large construction project to widen the northern approach to to the Whitestone Bridge. They were involved in removing tanks and excavating contaminated soil. The work was done in two weeks. He said that PBS case #2-481645 lists only four tanks that are still active. These are tank #11 (20,000 gal. UST with biodiesel), tank #12 (1,000 gal. UST with gasoline), tank #13 (2,500 gal. UST with biodiesel) and tank #15 (900 gal. UST with biodiesel). Mr. O'Connor added that their companies removed tanks #10 (north part west

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

side) and #5 and #6 (south
part west side). However, tanks #8 and #9 on the east side had already
been removed. So all they
did there was soil removal. Mr. O'Brien stated that when they started
digging, they discovered that
the upper layer was made of cobbles and the rest was native marsh
clay. Lots of water came out of
the layer of cobbles and this proved costly to handle. The Triborough
Bridge and Tunnel Authority
refused to pay them for the cost of handling all of the water from the
cobble zone. So the
remediation reports were never sent to the TBTA. Steel sheet pilings
were used to keep the holes
open at all of the tank excavation locations. Soil end point samples
were taken by boring holes
through the sheet piling. Mr. O'Brien showed me some pictures of the
work at the various locatoins.
Mr. O'Connor had sent me e-mail pdf files containing the soil
analytical results, groundwater
analytical results and some diagrams showing where the samples had
been taken. He also gave me
copies of the manifests for the soil that was removed from all of the
locations. However, he said
that the manifests were not in any particular order and were for all
of the excavation locations.
Mr. O'Connor showed me PBS printouts for tanks #8 and #9. The closure
dates were 5/1/96. After the
meeting, I reviewed the Long Island Analytical Labs 4/16/09 and
4/17/09 soil analytical results
reports. They were almost entirely non-detect. The few hits that were
present were almost entirely
below TAGM limits. I also reviewed the Action Remediation 6/1/09 soil
profile and sampling letter
for all of the sampling locations. I also reviewed the manifests,
other documents and pictures
concerning tanks #8 and #9. Based upon my data in the documents in the
case file, I determined that
the great majority of the contamination had been removed and that the
residual contamination was
not a threat to the public or the environment. Also, as the
groundwater that had entered the site
is part of the groundwater table that is under the landfill which is
Ferry Point Park, I determined
that any impacts are not due conditions at the former tank removal
areas. So I closed the spill
case. 11/17/11 - Raphael Ketani. I sent Mr. O'Connor and Mr. O'Brien a
spill closure letter for
this spill case and case number 9201985.

Remarks: Contaminated groundwater was discovered in the Tank
Excavationcontaminated in a hole.

All Materials:

Site ID:	249983
Operable Unit ID:	1029026
Operable Unit:	01
Material ID:	351180
Material Code:	0008
Material Name:	diesel

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9801266 / 2014-03-18
Facility ID:	9801266
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249985
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	1998-04-24
Investigator:	RVKETANI
Referred To:	031814 SPILL CASE APPRVD FOR CLOSURE
Reported to Dept:	1998-04-29
CID:	257
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1998-04-29
Spill Record Last Update:	2014-03-18
Spiller Name:	GEORGE BASIL
Spiller Company:	MTA BRIDGES & TUNNEL
Spiller Address:	RANDALLS ISLAND
Spiller Company:	001
Contact Name:	RAYMOND LO
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL This spill site investigation has been consolidated under Spill No. 9801266. A site investigation work plan was submitted to DEC for review and approval on November 7, 2003. Investigation was approved on 6/21/2004. The remaining spill case is under 9801266. DEC's comments regarding a proposed Work Plan for Site Investigation by BEM Systems, Inc., dated November 5, 2003. Based on the results of our site visit and PBS inspection on June 25, 2003, and evaluation of the proposal by BEM, the DEC accepts MTA Bridges and Tunnel's Work Plan to perform further investigatory actions to address any of the DEC's concerns related to the prior spill investigations for

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

this spill number referenced at
this site. MTA Bridges & Tunnels must now complete the implementation
of the BEM's Work Plan
according to the proposed schedule 7/19/04 - AUSTIN - TRANSFERRED FROM
SIGONA TO ROMMEL DUE TO THE
OTHER TBTA SITES BEING UNDER HER JURISDICTION - END 03/29/05: Transfer
from Rommel to Tibbe.
11/12/10 - spill re-assigned from Tibbe to Joe O'Connell 11/16/11 -
Raphael Ketani. I tried to
contact Colleen Channer of the Triborough Bridge and Tunnel Authority
(TBTA) (212) 878-1035, but I
could only leave a message with her secretary. Her mailing address is:
MTA Legal Department, 347
Madison Avenue, 9th Floor, NY, 10017. The TBTA is part of the MTA.
11/17/11 - Raphael Ketani. I
spoke to Ms. Channer. I told her that the DEC still had two open spill
cases, #0100477 and
#9801266, and that we were seeking documentation for these cases. I
told her that the spills may
involve tanks 1 to 4 on the west side of the northern approach to the
bridge. She said that she
will look for the documentation and get back to me. 1/13/12 - Raphael
Ketani. Ms. Channer (212)
878-1035 called me. She said that she had found some documentation for
cases #0100477 and #9801266.
We went over the documents that she had and that the DEC had. Some
were the same. I told her that
#0100477 was open because the consultant used the TCLP method to
process the samples, rather than
methods 8260 and 8270, and because not enough samples were taken and
no groundwater samples were
taken in the vicinity of tanks 1 and 2. I added that #9801266 was open
because the source of the
free floating product that had entered a utility vault was never
found. Tanks 3, 4, and 7 had been
removed in the nineteen nineties. However a full soil and groundwater
investigation, and
transmission lines investigation for product had never been done. Ms.
Channer asked that I send the
MTA a letter indicating the work that needs to be done and which
documents the DEC still needs. Her
address is: Senior Environmental Counsel, MTA,347 Madison Avenue, 9th
Floor, NY, 10017. 1/17/12 -
Raphael Ketani. I sent a letter to Ms. Channer requesting that the MTA
submit a work plan to
conduct a soil and groundwater investigation in the vicinity of the
former locations of USTs #3, #4
and #7. I also put in the letter a request for a work plan to conduct
an investigation of the
former vicinity of USTs #1 and #2 (spill #0100477). 1/19/12 - Raphael
Ketani. I was notified that
Peter Bass, Director of the Environmental Policy and Compliance group
at the MTA, should also
receive a copy of the letter to Ms. Channer. So I sent the letter to
him. His address is also 347
Madison Avenue. 1/30/12 - Raphael Ketani. Ms. Channer and the MTA
environmental engineer, George

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Bassil, called me today to request an extension for submitting the work plan as their consultant
was heavily involved with another MTA project and could not devote much attention to the Whitestone
Bridge projects. I granted the MTA a two month extension of the deadline for submitting the work
plan. This set the deadline at April 16. Mr. Bassil's contact information is: MTA, 2 Broadway, 23rd
Floor, NY, 10004, (646) 252-7020. 4/25/12 - Raphael Ketani. Today I received 4/16/12 Environmental
Site Investigation Work Plan from LiRo Engineers. I began my review. 5/15/12 - Raphael Ketani. I
finished my review of the ESIWP. LiRo proposed to perform 6 soil borings. Three in the vicinity of
the grave for the former tank #3 and its general spill area, and three in the vicinity of the grave
for the former tank #2 and its general spill area. Soil and groundwater samples will be collected.
The soil sample with the highest PID reading will be submitted for analysis and one groundwater
sample from each boring. Samples will be analyzed for STARS list VOCs by method 8260 and for STARS
list SVOCs by method 8270. The results will be compared to CP-51 standards. I disapproved the
ESIWP. First, the list of analytes to be tested should be the expanded lists for VOCs and SVOCs.
Secondly, there were not enough borings planned to properly cover each spill area. Lastly, the
areas affected by the spills need to be delineated. I drafted a disapproval letter for the review
of Hassan Hussein, EE III and head of the Hazardous Materials Unit. I set a deadline of June 22 for
the submission of a revised SIWP. Mr. Hussein approved the letter and it was sent out today.
5/18/12 - Raphael Ketani. Mr. Wesolowski of LiRo Engineering (718) 321-3136, ext 242 called me
today regarding my 5/15/12 response letter for the ESIWP. He said that the area of tanks 4 and 7
has a building over it. The building was constructed in 1998 after the tanks were removed. The
building is an office for their security group and there are many utilities under the floor.
Therefore, it would be very difficult to do any borings there. I told him that LiRo and the MTA
should go ahead and do the work for tanks 1 to 3 anyway. He said that this will be done, but he was
concerned about the request to do borings around tanks 4 and 7. I told him that horizontal borings
may be the only way to sample around the tank graves for these former tanks. I added that we need
some information in order to tell us whether elevated levels of contaminants are still at these
locations. I told him to go ahead with the work around the other tanks and to talk to the MTA and
see what can be done. He said that he will do this. With that, the conversation ended. 6/27/12 -
Raphael Ketani. Mr. Wesolowski sent me a response letter to the DEC

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

ESIWP review letter dated
5/15/12. Attached to the LiRo Engineering response letter was a
revised ESIWP dated 6/22/12. I
reviewed both documents. LiRo proposes to do many more borings around
tanks #1, #2 and #3.
Additional borings around tanks #4 and #7 will be performed only if
contamination appears to be
emanating from them. However, as these two tanks are under the
building, the tone of the letter
suggested that the idea of boring around these tanks will be open for
discussion. Mr. Wesolowski
also wrote that all environmental samples will be tested for the
expanded lists of VOCs and SVOCs.
Also, drilling will proceed deeper than the 20 feet down that was
originally planned if
contamination is found at that level. Work will start within 60 days
of the approval of the revised
ESIWP. I drafted a response letter approving the revised ESIWP and
stating that indoor air PID
surveying should be done in the areas of the building which are above
tanks #4 and #7. The letter
was submitted to Mr. Hussein for his approval. Mr. Hussein approved
the letter and it was sent out.
8/3/12 - Raphael Ketani. Mr. Wesolowski sent me a letter dated
7/18/12. This letter was LiRo's
response to the DEC 6/7/12 letter approving the June 22 ESIWP. In the
letter, Mr. Wesolowski
described the methodology for doing the indoor air sampling with the
PID meter. Specifically, if
elevated readings are detected that are not attributed to materials
stored in the building, then
air sampling will take place for 1 hour at each location of concern.
If there are no elevated
detections, then air sampling will take place at a minimum of 8
sampling stations for a period of
30 minutes each using the PID meter. These 8 or more stations will be
over the former locations of
USTs #4 and #7. I found the letter plan to be acceptable and submitted
a draft letter to Mr.
Hussein for his review. The letter approved the methodology and also
requested that the sampling
take place during a period when air exchange (due to people opening
doors to rooms or ventilation)
is not taking place. I stated that this is in order to have stable
conditions for the air sampling.
I also added that if the indoor air detections are above 500 ppb or
0.5 ppm, then the NYC DEP
Hotline should be contacted and a work plan must be submitted for a
more extensive air
investigation. 8/7/12 - Raphael Ketani. Mr. Hussein approved the
letter and it was sent out today.
11/17/12 - Raphael Ketani. I received the 11/13/12 Site Investigation
Summary Report from Li Ro.
Soil borings, groundwater sampling and indoor air sampling were
conducted on September 12, 13 and
17. Fourteen borings were performed down to 20 feet bgs. Temporary 1
inch monitoring wells were

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installed. After the sampling was completed, the borings were filled in and the wells were
abandoned. Soil samples were recovered from LSB-01, 03, 04, 06 to 09, 13, and 15 to 17. Borings
could not be performed at LSB-02, 05, 10 to 12 and 14 due to refusal - it was believed that the
foundations were encountered at these locations. When no visual evidence or PID detections were
encountered in a boring, then soil samples were collected at the water table interface and at 20
feet bgs. The water table was encountered at 3 to 9 feet bgs. Flow was expected to be to the
southwest to the East River. The indoor air results were obtained by sampling at each station for
30 minutes, except for the entrance area which was sampled for 15 minutes. There were no
detections. Soil samples were collected from 5.5 feet to 20 feet below grade. The VOC results were
either non-detect or well below the CP-51 standards. The SVOC results were either non-detect, well
below the standards or just above the standards. For total results, the most contaminated soil
horizon at LSB-01 was at 7 feet bgs and LSB-03 was worst at 20 feet bgs. The groundwater samples
from LSB-01, LSB-03 and LSB-17 had 280 ppb, 260 ppb and 210 ppb of naphthalene, respectively. The
rest of the VOC results and the SVOC results were either non-detect or slightly above the GW
standards to two digits. From the data in the report, it appears that there is a source of
groundwater contamination. I drafted a letter to Mr. Bassil and to Mr. Wesolowski approving the
SISR and requesting that groundwater contamination delineation take place. The draft letter was
submitted to Mr. Hussein for his approval. 12/4/12 - Raphael Ketani. The letter was approved by Mr.
Hussein and was sent out with a deadline of January 4, 2013 for submission of a work plan for
delineating the groundwater contamination. 1/9/2013 - Raphael Ketani. I reviewed the LiRo 1/4/13
Supplemental Environmental Site Investigation Work Plan. LiRo plans to install 3 wells. One well
will be upgradient of LSB-17, one well will be downgradient of LSB-17 and one well will be
downgradient of locations LSB-1 and LSB-3. A maximum of 2 soil samples and 1 groundwater sample
will be taken from each proposed well location (MW-1 to MW-3). If no contamination is found at a
location, then one soil sample will be taken from just above the water table. The water table is
believed to be at about 8 feet bgs. I found the work plan to be acceptable and drafted a letter for
the review of Mr. Hussein approving the work plan and requesting that each well be surveyed and a
groundwater flow map be constructed. 1/11/13 - Raphael Ketani. Mr. Hussein found the letter to be
acceptable and it was sent out today. 12/23/13 - Raphael Ketani. As

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there has been no
correspondence from Martin Wesolowski of LiRo Engineering (718)
321-3136, ext 242 regarding
conducting the work that was described in the 1/4/13 SESIWP, I sent an
e-mail to Colleen Channer
(legal division Triborough Bridge and Tunnel Authority (TBTA) (212)
878-1035), Peter Bass (Director
of Environmental Policy and Compliance) and George Bassil (MTA
environmental engineer (646)
252-7020) requesting that the work start by February 3, 2014, or else
the spill cases will be
referred to the Office of General Counsel for legal action. Later, Mr.
Wesolowski responded by
e-mail and stated that the TBTA was obtaining the funding to do the
approved work. The work is
scheduled to take place during early January 2014. 1/7/14 - Raphael
Ketani. Mr. Wesolowski sent me
an e-mail stating that the agreed upon work will take place on
1/21/14. 1/21/14 - Raphael Ketani.
Mr. Wesolowski sent me an e-mail stating that they had completed
locating the utilities and doing
the markouts for the 3 planned wells. Due to the snowy weather, the
actual work will not start
until 1/23/14. 1/23/14 - Raphael Ketani. Mr. Wesolowski sent me an
e-mail stating that the wells
were installed today and that groundwater sampling will take place in
two weeks. A report will be
sent to the DEC in February 2014. 3/7/14 - Raphael Ketani. I reviewed
the 3/6/14 LiRo Engineers,
Inc. Supplemental Environmental Site Investigation Report. The
supplemental investigation took
place in order to further delineate the extent of the groundwater
contamination at 3 specific
locations. Borings SB-1 to SB-3 were installed on 1/23/14. None of the
samples had odors or PID
hits. These borings were turned into wells MW-1 to MW-3 and developed
on 1/29/14. The wells were
sampled on 2/12/14. All of the soil and groundwater samples were
analyzed via methods 8260B and
8270C. The soil samples were almost entirely non-detect for VOCs. The
SVOC hits were also almost
entirely non-detect with hits that were well below the CP-51
unrestricted soil standards. The
groundwater results for all of the samples were almost entirely
non-detect for the VOCs and the
SVOCs. I sent an e-mail to Mr. Bassil and Mr. Wesolowski stating that
the Supplemental
Environmental SIR had been approved, but the Department was a little
concerned about some past
naphthalene results which had been from samples taken from wells
LSB-1, LSB-3 and LSB-17. Later,
Mr. Wesolowski responded by e-mail that after the September 2012
sampling event, these temporary
wells had been removed. So no additional groundwater samples could be
taken. 3/18/14 - Raphael
Ketani. The spill case was presented to Mr. Hussein for closure. Mr.
Hussein reviewed the data and

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

	determined that the spill case could be closed. Based upon the documentation and the data in the case file, it has been determined that the oil spill has been remediated and that any residual contamination is not a threat to the public or the environment. Additionally, from the PID screening data, it has been determined that there are no threats from the vapors of volatile chemicals in the MTA owned and maintained building. Therefore, the spill case has been closed effective today.
Remarks:	DEC Sigona was performing a site inspection and contamination was found.

All Materials:

Site ID:	249985
Operable Unit ID:	1061927
Operable Unit:	01
Material ID:	323195
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9303540 / 2003-11-06
Facility ID:	9303540
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249979
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	1993-06-17
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1993-06-17
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1993-06-24
Spill Record Last Update:	2004-06-21

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Spiller Name:	GEORGE BASIL
Spiller Company:	TRIBOROUGH AUTHORITY
Spiller Address:	RANDALL'S ISLAND
Spiller Company:	001
Contact Name:	GEORGE BASIL
DEC Memo:	Not reported
Remarks:	WHILE THE TBTA WAS PERFORMING AN EXCAVATION FOR A NEW SEWER PIPE THEY FOUND PETROLEUM CONTAMINATED SOILS.

All Materials:

Site ID:	249979
Operable Unit ID:	981958
Operable Unit:	01
Material ID:	397102
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9501417 / 2003-11-24
Facility ID:	9501417
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249981
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	1995-05-03
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1995-05-03
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1995-05-18
Spill Record Last Update:	2004-06-21
Spiller Name:	GEORGE BASIL
Spiller Company:	MTA BRIDGES & TUNNELS
Spiller Address:	RANDALLS ISLAND
Spiller Company:	001
Contact Name:	Not reported

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

DEC Memo:	Not reported
Remarks:	LEAKING PIPE IN ABOVE GROUND TANK - SMALL AMOUNT WENT INTO SEWER - CONTAINED, CLEANUP CREW ON WAY.

All Materials:

Site ID:	249981
Operable Unit ID:	1012154
Operable Unit:	01
Material ID:	370025
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	150.00
Units:	G
Recovered:	.00
Resource Affected:	Sewer
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9503672 / 1995-06-26
Facility ID:	9503672
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249982
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	1995-06-26
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1995-06-26
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	1995-06-26
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1995-07-18
Spill Record Last Update:	2004-06-21
Spiller Name:	GEORGE BASIL
Spiller Company:	MTA BRIDGES & TUNNELS
Spiller Address:	RANDALLS ISLAND
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	Not reported
Remarks:	DRIVER WAS FILLING A TANK & THE TANK GAUGE WAS BROKE - TANK OVERFLOWED SPILL TEAM WAS CALLED & RESPONDING

All Materials:

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Site ID:	249982
Operable Unit ID:	1014900
Operable Unit:	01
Material ID:	365176
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9906022 / 1999-08-30
Facility ID:	9906022
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249986
DEC Region:	2
Spill Cause:	Traffic Accident
Spill Class:	C3
SWIS:	0301
Spill Date:	1999-08-19
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1999-08-19
CID:	389
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1999-08-19
Spill Record Last Update:	2004-06-21
Spiller Name:	Not reported
Spiller Company:	WEBSTER TRUCKING
Spiller Address:	1800 CORPORATE BLVD
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	Not reported
Remarks:	SPILL OCCURRED APPROX 2 HOURS AGO ON THE WHITESTONE BRIDGE IN QUEENS. CLEAN UP BY PENSKE AND TOWED TO ROCKAWAY QUEENS TERMINAL.

All Materials:

Site ID:	249986
Operable Unit ID:	1080469
Operable Unit:	01
Material ID:	302297
Material Code:	0001A

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	8807410 / 1992-12-04
Facility ID:	8807410
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249977
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	A3
SWIS:	0301
Spill Date:	1988-12-07
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1988-12-07
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	1992-12-04
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1988-12-21
Spill Record Last Update:	2004-06-21
Spiller Name:	GEORGE BASIL
Spiller Company:	MTA BRIDGES & TUNNELS
Spiller Address:	RANDALLS ISLAND
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	Not reported
Remarks:	TEMPCO - HEATING UNIT - LEAKS INTO BOOTHS CAUSING IRRITATION, VOMITING20 PEOPLE AFFECTED, WORKERS WON'T ASK FOR UNION DELEGATE. NOTIFIED NYSDOH, DOL, NYCDOH.

All Materials:

Site ID:	249977
Operable Unit ID:	924079
Operable Unit:	01
Material ID:	455753
Material Code:	0028A
Material Name:	ethylene glycol
Case No.:	00107211
Material FA:	Hazardous Material
Quantity:	.00

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Units:	G
Recovered:	.00
Resource Affected:	Air
Oxygenate:	Not reported

NY MANIFEST:

EPA ID:	NYR000154260
Country:	USA
Name:	MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY
Address:	1 HUTCHINSON RIVER PKWY
Address 2:	Not reported
City,State,Zip:	BRONX, NY 10465-1857
Zip 4:	Not reported
Location Address 1:	1 HUTCHINSON RIVER PKWY
Location Address 2:	Not reported
Location City,State,Zip:	BRONX, NY 10465
Location Zip 4:	Not reported
Facility Status:	Not reported
Total Tanks:	Not reported
Code:	BP

Mailing:

Mailing Name:	MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY
Mailing Contact:	TBTA/MTA BRIDGES & TUNNELS
Mailing Address 1:	1 HUTCHINSON RIVER PKWY
Mailing Address 2:	Not reported
Mailing City,State,Zip:	BRONX, NY 10465
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124688454

Manifest Data:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	03/03/2014
Trans1 Recv Date:	03/03/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/03/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	001053507GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	IGNITABLE WASTE
Waste Code b:	BENZENE
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	55
Units:	Gallons (liquids only)
Number of Containers:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Handling Method:	Treat
Specific Gravity:	1

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	05/24/2011
Trans1 Recv Date:	05/24/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/24/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	003534721JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	IGNITABLE WASTE
Waste Code b:	BENZENE
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	55
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Treat
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYR000134957
Year:	2018
Trans2 State ID:	PAD982661381
Generator Ship Date:	07/31/2013
Trans1 Recv Date:	07/31/2013
Trans2 Recv Date:	08/09/2013
TSD Site Recv Date:	08/19/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	PAD085690592
TSDF ID 2:	Not reported
Manifest Tracking Number:	002835527FLE
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	LEAD
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	500
Units:	Pounds
Number of Containers:	2
Container Type:	Metal drums, barrels, kegs

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Handling Method:	Treat
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027103
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	03/30/2016
Trans1 Recv Date:	03/30/2016
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/30/2016
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	015626081JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code a:	LEAD
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	40
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Treat
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027103
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	03/30/2016
Trans1 Recv Date:	03/30/2016

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/30/2016
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	015626081JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	MERCURY
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	4500
Units:	Pounds
Number of Containers:	9
Container Type:	Wooden boxes, cartons, cases
Handling Method:	Treat
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	11/04/2013
Trans1 Recv Date:	11/04/2013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/04/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	010913928JJK

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code a:	LEAD
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	300
Units:	Pounds
Number of Containers:	3
Container Type:	Metal drums, barrels, kegs
Handling Method:	Treat
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	11/04/2013
Trans1 Recv Date:	11/04/2013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/04/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	010913928JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

MGMT Method Type Code:	H110
Waste Code a:	LEAD
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	60
Units:	Pounds
Number of Containers:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Handling Method:	Treat
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	11/04/2013
Trans1 Recv Date:	11/04/2013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/04/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	010913928JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	LEAD
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	600
Units:	Pounds
Number of Containers:	6
Container Type:	Metal drums, barrels, kegs
Handling Method:	Treat
Specific Gravity:	1

E23
ESE
< 1/8
0.113 mi.
597 ft.

FARRY POINT PARK
WHITSTONE BRIDGE
BRONX, NY

NY Spills **S104952961**
N/A

Site 2 of 3 in cluster E

Relative:
Higher

Actual:
32 ft.

SPILLS:

Name:	FARRY POINT PARK
Address:	WHITSTONE BRIDGE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0012477 / 2003-06-09
Facility ID:	0012477
Facility Type:	ER
DER Facility ID:	172388
Site ID:	207749
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C3
SWIS:	0301
Spill Date:	2001-02-21
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2001-02-21
CID:	270
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2001-02-21
Spill Record Last Update:	2003-06-09
Spiller Name:	CAKLLER
Spiller Company:	FAIRWAYS INC
Spiller Address:	115 STEVENS AV
Spiller Company:	001
Contact Name:	CALLER
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was SANGESLAND
Remarks:	line broke on vehicle. clean up in progress

All Materials:

Site ID:	207749
Operable Unit ID:	834003

FARRY POINT PARK (Continued) **S104952961**

Operable Unit:	01
Material ID:	542742
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	4.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

F24 **LIBERTY MECHANICAL/CABLEVISION** **NY TANKS** **U001831844**
NNW **550 BRUSH AVENUE** **NY NYC LAND USE** **N/A**
< 1/8 **BRONX, NY 10465**
0.114 mi.
601 ft. **Site 1 of 9 in cluster F**

Relative:
Lower

Actual:
8 ft.

TANKS:

Name:	LIBERTY MECHANICAL/CABLEVISION
Address:	550 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Facility Id:	2-080799
Region:	STATE
DEC Region:	2
Site Status:	Active
Program Type:	PBS
Expiration Date:	03/26/2028
UTM X:	597964.87894
UTM Y:	4519189.11855

NYC LAND USE:

Name:	Not reported
Address:	550 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Latitude:	40.8176678
Longitude:	-73.8380585
Type Of Ownership Code:	Not reported
Owner Name:	550 BRUSH LLC
Borough:	BX
Tax Block:	5610
Tax Lot:	16
Community District:	210
Census Tract 2020:	2009000
Census Block 2020:	20090002019
Census Tract 2010:	90
Census Block 2010:	2014
School District:	08
City Council District:	13
Fire Company:	E072
Police Precinct:	45
Health Center District:	26
Health Area:	3100
Sanitation District Boro:	2
Sanitation District Number:	10
Sanitation Subsection:	3D

LIBERTY MECHANICAL/CABLEVISION (Continued) **U001831844**

Zoning District 1:	M1-1: Manufacturing Districts
Zoning District 2:	Not reported
Zoning District 3:	Not reported
Zoning District 4:	Not reported
Commercial Overlay 1:	Not reported
Commercial Overlay 2:	Not reported
Special Purpose District 1:	Not reported
Special Purpose District 2:	Not reported
Special Purpose District 3:	Not reported
Limited Height District:	Not reported
Spill Boundary Indicator:	N
Building Class:	F1: FACTORY AND INDUSTRIAL BUILDINGS - Heavy Manufacturing - Fireproof
Land Use Category:	Industrial & Manufacturing
Number Of Easements:	0
Lot Area:	106300
Total Building Floor Area:	47800
Commercial Floor Area:	47800
Residential Floor Area:	0
Office Floor Area:	1800
Retail Floor Area:	0
Garage Floor Area:	0
Storage Floor Area:	0
Factory Floor Area:	46000
Other Floor Area:	0
Total Building Floor Area Source Code:	2
Number Of Buildings:	2
Number Of Floors:	1.0000000
Residential Units:	0
Total Units:	2
Lot Frontage:	530.0000000
Lot Depth:	275.3300000
Building Frontage:	200.3300000
Building Depth:	200.0000000
Extension Code:	N
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	3
Basement Type/Grade:	0
Assessed Land Value:	675000.00000
Assessed Total Value:	3496950.00000
Exempt Total Value:	0.00000
Year Built:	1962
Year Altered 1:	2015
Year Altered 2:	0
Historic District Name:	Not reported
Landmark Status:	Not reported
Built Floor Area Ratio:	0.45000000000
Maximum Allowable Residential Far:	0.00000000000
Maximum Allowable Commercial Far:	1.00000000000
Maximum Allowable Community Facility Far:	2.40000000000
Boro Code:	2
Borough, Tax Block and Lot:	2056100016.00000000
Condominium Number:	Not reported
Census Tract 2:	0090
X Coordinate:	1029074
Y Coordinate:	237217
Zoning Map #:	7a

LIBERTY MECHANICAL/CABLEVISION (Continued) **U001831844**

Zoning Map Code:	Not reported
Sanborn Map #:	221 040
Tax Map #:	21809
E-designation Number:	Not reported
Apportionment BBL:	Not reported
Apportionment Date:	Not reported
Pluto ??? Dtm Base Map Indicator:	1
2007 Flood Insurance Rate Map Indicator:	1
2015 Preliminary Flood Insurance Rate Map Indicator:	1
Version Number:	24v1.1
Changed By DCP:	Not reported

25
North
< 1/8
0.121 mi.
639 ft.

FERRY POINT PARK GOLF COURSE **NY AST** **A100366170**
700 HUTCHINSON RIVER PARKWAY **N/A**
BRONX, NY 10465

Relative:
Lower

Actual:
14 ft.

AST:

Name:	FERRY POINT PARK GOLF COURSE
Address:	700 HUTCHINSON RIVER PARKWAY
City,State,Zip:	BRONX, NY 10465
Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-611992
Program Type:	PBS
UTM X:	598188.19739
UTM Y:	4519209.71831
Expiration Date:	02/15/2023
Site Type:	Other

Affiliation Records:

Site Id:	480083
Affiliation Type:	Facility Owner
Company Name:	CITY OF NEW YORK, PARKS AND RECREATION
Contact Type:	GENERAL MANAGER
Contact Name:	BRIAN A. CROWEK
Address1:	830 FIFTH AVENUE
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10021
Country Code:	001
Phone:	(212) 410-8916
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2023-01-17

Site Id:	480083
Affiliation Type:	Mail Contact
Company Name:	CITY OF NEW YORK, PARKS & RECREATION
Contact Type:	Not reported
Contact Name:	CYNTHIA LOPEZ
Address1:	CITYWIDE SERVICES COMPLEX
Address2:	20 BRONX SHORE ROAD - RANDALLS ISLAND
City:	NEW YORK

FERRY POINT PARK GOLF COURSE (Continued) **A100366170**

State:	NY
Zip Code:	10035
Country Code:	001
Phone:	(212) 410-8935
EMail:	CYNTHIA.LOPEZ@PARKS.NYC.GOV
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2023-01-17

Site Id:	480083
Affiliation Type:	Emergency Contact
Company Name:	CITY OF NEW YORK, PARKS AND RECREATION
Contact Type:	Not reported
Contact Name:	CYNTHIA LOPEZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(212) 410-8935
EMail:	Not reported
Fax Number:	Not reported
Modified By:	ACDANIEL
Date Last Modified:	2023-01-13

Site Id:	480083
Affiliation Type:	Facility Operator
Company Name:	FERRY POINT GOLF COURSE
Contact Type:	GENERAL MANAGER
Contact Name:	BRIAN CROWELL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NY
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 414-1560
EMail:	Not reported
Fax Number:	Not reported
Modified By:	ACDANIEL
Date Last Modified:	2023-01-13

Tank Info:

Tank Number:	001
Tank Id:	247593
Material Code:	2712
Common Name of Substance:	Gasoline/Ethanol

Equipment Records:

G01 - Tank Secondary Containment - Diking (Aboveground)
J06 - Dispenser - Tank Mounted Dispenser
F00 - Pipe External Protection - None
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin

FERRY POINT PARK GOLF COURSE (Continued) **A100366170**

L09 - Piping Leak Detection - Exempt Suction Piping
E00 - Piping Secondary Containment - None
C01 - Pipe Location - Aboveground
G12 - Tank Secondary Containment - Double-Walled (AG only)
I03 - Overfill - Automatic Shut-Off
D01 - Pipe Type - Steel/Carbon Steel/Iron
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel Tank in Concrete
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	02/15/2013
Capacity Gallons:	1000
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	JSMACRI
Last Modified:	01/17/2023
Material Name:	gasoline/ethanol

Tank Number:	002
Tank Id:	247594
Material Code:	0008
Common Name of Substance:	Diesel

Equipment Records:

F00 - Pipe External Protection - None
J06 - Dispenser - Tank Mounted Dispenser
E00 - Piping Secondary Containment - None
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
G12 - Tank Secondary Containment - Double-Walled (AG only)
C01 - Pipe Location - Aboveground
G01 - Tank Secondary Containment - Diking (Aboveground)
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I01 - Overfill - Float Vent Valve
I03 - Overfill - Automatic Shut-Off

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel Tank in Concrete
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	02/15/2013
Capacity Gallons:	1000
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported

FERRY POINT PARK GOLF COURSE (Continued) **A100366170**

Register:	True
Modified By:	JSMACRI
Last Modified:	01/17/2023
Material Name:	diesel

Tank Number:	003
Tank Id:	248286

Equipment Records:

J06 - Dispenser - Tank Mounted Dispenser
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
K01 - Spill Prevention - Catch Basin
E00 - Piping Secondary Containment - None
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
I04 - Overfill - Product Level Gauge (A/G)
G10 - Tank Secondary Containment - Impervious Underlayment
A00 - Tank Internal Protection - None

Tank Location:	Aboveground - contact with impervious barrier... Tank bottom rests on impervious barrier, allowing visual indication of leaks.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	07/31/2012
Capacity Gallons:	500
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	02/15/2013
Register:	True
Modified By:	JSMACRI
Last Modified:	01/17/2023
Material Name:	diesel

Tank Number:	004
Tank Id:	248287

Equipment Records:

D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
J06 - Dispenser - Tank Mounted Dispenser
A00 - Tank Internal Protection - None
G10 - Tank Secondary Containment - Impervious Underlayment
E00 - Piping Secondary Containment - None
K01 - Spill Prevention - Catch Basin

Tank Location:	Aboveground - contact with impervious barrier... Tank bottom rests on impervious barrier, allowing visual indication of leaks.
Tank Type:	Steel/Carbon Steel/Iron

FERRY POINT PARK GOLF COURSE (Continued) **A100366170**

Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	04/11/2013
Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	#4 fuel oil (resale/redistribute)

Tank Number:	005
Tank Id:	248288

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
J06 - Dispenser - Tank Mounted Dispenser
E00 - Piping Secondary Containment - None
K01 - Spill Prevention - Catch Basin
A00 - Tank Internal Protection - None
G10 - Tank Secondary Containment - Impervious Underlayment

Tank Location:	Aboveground - contact with impervious barrier... Tank bottom rests on impervious barrier, allowing visual indication of leaks.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	04/11/2013
Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	#2 fuel oil (resale/redistribute)

Tank Number:	006
Tank Id:	248289

Equipment Records:

K01 - Spill Prevention - Catch Basin
E00 - Piping Secondary Containment - None
I04 - Overfill - Product Level Gauge (A/G)
J06 - Dispenser - Tank Mounted Dispenser
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

FERRY POINT PARK GOLF COURSE (Continued) **A100366170**

H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
G10 - Tank Secondary Containment - Impervious Underlayment
A00 - Tank Internal Protection - None

Tank Location:	Aboveground - contact with impervious barrier... Tank bottom rests on impervious barrier, allowing visual indication of leaks.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	04/11/2013
Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	gasoline

E26
East
1/8-1/4
0.129 mi.
679 ft.

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE
1 HUTCHINSON RIVER PKWY
BRONX, NY 10465

RCRA-LQG **1000141522**
E MANIFEST **NYD982796377**
PA MANIFEST
NJ MANIFEST

Site 3 of 3 in cluster E

Relative:
Higher

Actual:
36 ft.

RCRA Listings:

Date Form Received by Agency:	20180219
Handler Name:	Mta Bridge Bin 55211229 - Bronx Whitestone Bridge
Handler Address:	Hutchinson River Pkwy
Handler City,State,Zip:	BRONX, NY 10465-1857
EPA ID:	NYD982796377
Contact Name:	PASHKO R CAMAJ
Contact Address:	ROBERT MOSES BLDG RM 115D
Contact City,State,Zip:	NEW YORK, NY 10035
Contact Telephone:	212-360-3073
Contact Fax:	315-454-4467
Contact Email:	PCAMAJ@MTABT.ORG
Contact Title:	SR. DIRECTOR, S&H
EPA Region:	02
Land Type:	State
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ny
State District:	NYSDEC R2
Mailing Address:	ROBERT MOSES BLDG RM 115D
Mailing City,State,Zip:	NEW YORK, NY 10035
Owner Name:	Mta-Bridges And Tunnels
Owner Type:	State
Operator Name:	Mta Bridges And Tunnels
Operator Type:	State
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220406
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years

Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2011

Click Here for Biennial Reporting System Data:
Year: 2009

Click Here for Biennial Reporting System Data:
Year: 2005

Click Here for Biennial Reporting System Data:
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	Ignitable Waste
Waste Code:	D002
Waste Description:	Corrosive Waste
Waste Code:	D008
Waste Description:	Lead
Waste Code:	D018
Waste Description:	Benzene
Waste Code:	X001
Waste Description:	Not Defined

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: MTA BRIDGES & TUNNELS	
Legal Status:	State
Date Became Current:	19390429
Date Ended Current:	Not reported
Owner/Operator Address:	ROBERT MOSES BUILDING
Owner/Operator City,State,Zip:	NEW YORK, NY 10035-5199
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: MTA BRIDGES & TUNNELS	
Legal Status:	State
Date Became Current:	19500525
Date Ended Current:	Not reported
Owner/Operator Address:	2 BROADWAY-23RD FLOOR
Owner/Operator City,State,Zip:	NEW YORK, NY 10004
Owner/Operator Telephone:	646-252-7046
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: TRIBOROUGH BRIDGE & TUNNEL AUTH (TBTA)	
Legal Status:	State
Date Became Current:	19500525
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MTA BRIDGES & TUNNELS
Legal Status: State
Date Became Current: 19390429
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MTA-BRDIGES AND TUNNELS
Legal Status: State
Date Became Current: 19510101
Date Ended Current: Not reported
Owner/Operator Address: ROBERT MOSES BLDG, ROOM 115 D
Owner/Operator City,State,Zip: NEW YORK, NY 10035
Owner/Operator Telephone: 212-360-3073
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MTA BRIDGES & TUNNELS (TBTA)
Legal Status: State
Date Became Current: 19500525
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MTA BRIDGES & TUNNELS
Legal Status: State
Date Became Current: 19390429
Date Ended Current: Not reported
Owner/Operator Address: R MOSES BLG
Owner/Operator City,State,Zip: NEW YORK, NY 10035-5199
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MTA BRIDGES & TUNNELS
Legal Status: State
Date Became Current: 19390429
Date Ended Current: Not reported
Owner/Operator Address: R MOSES BLG

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Owner/Operator City,State,Zip:	NEW YORK, NY 10035-5199
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: MTA BRIDGES & TUNNELS	
Legal Status:	State
Date Became Current:	19390429
Date Ended Current:	Not reported
Owner/Operator Address:	R. MOSES BLG., RANDALL'S ISLAN
Owner/Operator City,State,Zip:	NEW YORK, NY 10035-5199
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: MTA BRIDGES & TUNNELS	
Legal Status:	State
Date Became Current:	19500525
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: TRIBORO BRG & TUN AUTH	
Legal Status:	State
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: MTA BRIDGES AND TUNNELS	
Legal Status:	State
Date Became Current:	19510101
Date Ended Current:	Not reported
Owner/Operator Address:	ROBERT MOSES BUILDING, ROOM 11
Owner/Operator City,State,Zip:	NEW YORK, NY 10035
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: MTA BRIDGES AND TUNNELS	
Legal Status:	State

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Date Became Current: 19510101
Date Ended Current: Not reported
Owner/Operator Address: ROBERT MOSES BLDG RM 11
Owner/Operator City,State,Zip: NEW YORK, NY 10035
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MTA BRIDGES & TUNNELS
Legal Status: State
Date Became Current: 19390429
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MTA-BRIDGES AND TUNNELS
Legal Status: State
Date Became Current: 19510101
Date Ended Current: Not reported
Owner/Operator Address: ROBERT MOSES BLDG RM 115 D
Owner/Operator City,State,Zip: NEW YORK, NY 10035
Owner/Operator Telephone: 212-360-3073
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20100309
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20120305
Handler Name: NYSDOT BRONX WHITESTONE BRIDGE BIN # 55211229
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20180213
Handler Name: NYSDOT BIN 55211229 - BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20060226
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20071210
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20180219
Handler Name: MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 19891004
Handler Name: TBTA - BRONX WHITESTONE BRIDGE

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20071211
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920220
Handler Name: BX-WHISTONE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940328
Handler Name: BRONX-WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19950327
Handler Name: BRONX-WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19980302
Handler Name: TBTA/BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20010101
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020314
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20040226
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Receive Date: 20060227
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 485999
NAICS Description: ALL OTHER TRANSIT AND GROUND PASSENGER TRANSPORTATION

NAICS Code: 48849
NAICS Description: OTHER SUPPORT ACTIVITIES FOR ROAD TRANSPORTATION

Has the Facility Received Notices of Violations:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19970721
Actual Return to Compliance Date: 19970828
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19970821
Enforcement Identifier: 000
Date of Enforcement Action: 19970721
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: NY
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYADS
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	19960916
Actual Return to Compliance Date:	19971030
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	19970219
Enforcement Identifier:	000
Date of Enforcement Action:	19970121
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R2MH
Enforcement Responsible Sub-Organization:	RCB
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20090311
Actual Return to Compliance Date: 20090428
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20090402
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYACY
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19970709
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	NYADS
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	19970828
Scheduled Compliance Date:	19970821
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19960916
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	R2MH
Evaluation Responsible Sub-Organization:	RCB
Actual Return to Compliance Date:	19971030
Scheduled Compliance Date:	19970219
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190702
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	NYSR
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20090311
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	NYACY
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	20090428
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

E MANIFEST:

Manifest Tracking Number:	015548666FLE
Last Updated Date:	20210813
Shipped Date:	20210709
Received Date:	20210709
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD982796377
Generator Name:	Triborough Br & Tunnel Auth Cont# Wbm-376
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	WBM-376 BRONX WHITESTONE BR
Generator Mail Street 2:	Not reported
Generator Mail City:	QUEENS
Generator Mail State:	NY
Generator Mail Zip:	10465-1857
Generator Location Street Number:	Not reported
Generator Location Street 1:	1 HUTCHINSON RIVER PKWY
Generator Location Street 2:	Not reported
Generator Location City:	BRONX
Generator Location Zip:	10465
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD991291105
Designated Facility Name:	Clean Earth Of North Jersey
Designated Facility Mail Street Number:	105
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	JACOBUS AVE
Designated Facility Mail City:	KEARNY
Designated Facility Mail Zip:	07032
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	105
Designated Facility Location Street 1:	JACOBUS AVE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	KEARNY
Designated Facility Location Zip:	07032
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	017582348FLE
Last Updated Date:	20220923
Shipped Date:	20220915
Received Date:	20220916
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD982796377
Generator Name:	Mta Bridge Bin 55211229 - Bronx Whitestone Bridge
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRONX WHITESTONE BR
Generator Mail Street 2:	Not reported
Generator Mail City:	QUEENS
Generator Mail State:	NY
Generator Mail Zip:	11357
Generator Location Street Number:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Generator Location Street 1:	R1 HUTCHINSON RIVER PKWY
Generator Location Street 2:	Not reported
Generator Location City:	BRONX
Generator Location Zip:	10465
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD991291105
Designated Facility Name:	Clean Earth Of North Jersey
Designated Facility Mail Street Number:	105
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	JACOBUS AVE
Designated Facility Mail City:	KEARNY
Designated Facility Mail Zip:	07032
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	105
Designated Facility Location Street 1:	JACOBUS AVE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	KEARNY
Designated Facility Location Zip:	07032
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Federal Waste:

Manifest Tracking Number:	017582348FLE
Waste Line Number:	1
Federal Waste Code:	D008
Federal Waste:	LEAD

Transporter:

Manifest Tracking Number:	017582348FLE
Transporter Line Number:	1
Transporter EPA ID:	NJR986628162
Transporter Name:	Iwt Transport, Inc.

Waste Line:

Manifest Tracking Number:	017582348FLE
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA3077
U.S. DOT Description:	Na3077, Hazardous Waste, Solid N.O.S., 9, Pg Iii, Rq
Non-Hazardous Waste Description:	Not reported
Number of Containers:	1
Container Type Code:	DM
Container Type Description:	Metal drums, barrels, kegs
Waste Quantity:	25
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.0125
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.0125
Waste Quantity, in Kilograms:	11.337875
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	11.337875
Management Method Code:	H110

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Management Method Description:	STABILIZATION
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

PA MANIFEST:

Name:	TBTA BRONX WHITESTONE BRIDGE
Address:	FERRY POINT PK
City,State,Zip:	BRONX, NY 10465
Year:	2005
Manifest Number:	PAH190052
Manifest Type:	T
Generator EPA ID:	NYD982796377
Generator Date:	05/02/2005
Mailing Address:	RANDALLS ISLAND
Contact Name:	MIKE LEOTE
Contact Phone:	212-360-2853
TSD EPA ID:	PAD085690592
TSD Date:	05/06/2005
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS
TSD Facility Address:	2869 SANDSTONE DR
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	9
Container Type:	DM
Waste Quantity:	6300
Unit:	P
Handling Code:	Not reported
TSP EPA ID:	PAD982661381
Date TSP Sig:	05/02/2005

Year:	2012
Manifest Number:	008770999JJK
Manifest Type:	T
Generator EPA ID:	NYD982796377
Generator Date:	03/01/2012
Mailing Address:	Not reported
Contact Name:	Not reported
Contact Phone:	212-360-2853
TSD EPA ID:	Not reported
TSD Date:	Not reported
TSD Facility Name:	Envirite of Pennsylvania Inc

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

TSD Facility Address:	730 Vogelsong Rd
TSD Facility City:	York
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	2
Container Type:	DM
Waste Quantity:	325
Unit:	P
Handling Code:	Not reported
TSP EPA ID:	PAD010154045
Date TSP Sig:	Not reported
Year:	2010
Manifest Number:	000390295JJK
Manifest Type:	T
Generator EPA ID:	NYD982796377
Generator Date:	12/06/2010
Mailing Address:	Not reported
Contact Name:	Not reported
Contact Phone:	212-360-2853
TSD EPA ID:	PAD010154045
TSD Date:	Not reported
TSD Facility Name:	ENVIRITE OF PENNSYLVANIA INC
TSD Facility Address:	730 VOGELSONG ROAD
TSD Facility City:	YORK
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	1
Container Type:	CM
Waste Quantity:	15
Unit:	Y
Handling Code:	Not reported
TSP EPA ID:	Not reported
Date TSP Sig:	Not reported
Year:	2010
Manifest Number:	003196917FLE
Manifest Type:	T
Generator EPA ID:	NYD982796377
Generator Date:	03/08/2010
Mailing Address:	Not reported
Contact Name:	Not reported
Contact Phone:	212-360-2853
TSD EPA ID:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Line Number:	1
Waste Number:	D008
Container Number:	1
Container Type:	DM
Waste Quantity:	20
Unit:	P
Handling Code:	Not reported
TSP EPA ID:	Not reported
Date TSP Sig:	Not reported

Year:	2011
Manifest Number:	007637374JJK
Manifest Type:	T
Generator EPA ID:	NYD982796377
Generator Date:	03/09/2011
Mailing Address:	Not reported
Contact Name:	Not reported
Contact Phone:	212-360-2853
TSD EPA ID:	PAD010154045
TSD Date:	Not reported
TSD Facility Name:	ENVIRITE OF PENNSYLVANIA INC
TSD Facility Address:	730 VOGELSONG ROAD
TSD Facility City:	YORK
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	5
Container Type:	DM
Waste Quantity:	1600
Unit:	P
Handling Code:	Not reported
TSP EPA ID:	Not reported
Date TSP Sig:	Not reported

Year:	2007
Manifest Number:	002131872JJK
Manifest Type:	Not reported
Generator EPA ID:	NYD982796377
Generator Date:	01/11/2007
Mailing Address:	Not reported
Contact Name:	MIKE LEOTE
Contact Phone:	212-360-2853
TSD EPA ID:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	1
Container Type:	DM
Waste Quantity:	100

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Unit:	P
Handling Code:	Not reported
TSP EPA ID:	Not reported
Date TSP Sig:	Not reported

Year:	2006
Manifest Number:	002124737JJK
Manifest Type:	T
Generator EPA ID:	NYD982796377
Generator Date:	11/20/2006
Mailing Address:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA ID:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	212-360-2853
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	20
Container Type:	DM
Waste Quantity:	16000
Unit:	P
Handling Code:	Not reported
TSP EPA ID:	Not reported
Date TSP Sig:	Not reported

Year:	2006
Manifest Number:	PAH290693
Manifest Type:	T
Generator EPA ID:	NYD982796377
Generator Date:	07/26/2006
Mailing Address:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA ID:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	212-360-2853
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	14
Container Type:	DM
Waste Quantity:	11200
Unit:	P
Handling Code:	Not reported
TSP EPA ID:	Not reported
Date TSP Sig:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

NJ MANIFEST:

EPA ID:	NYD982796377
Name:	TBTA-BRONX-WHITESTONE BRIDGE
Address:	FERRY POINT PARK
City,State,Zip:	BRONX, NY 10465
County:	Not reported
Mailing Address:	10 COLUMBUX CIR
Mailing City,State,Zip:	NEW YORK 10019
Telephone:	2124688454
Emergency Telephone:	Not reported
Contact:	Not reported
Comments:	Not reported
SIC Code:	Not reported
County:	00
Municipal:	00
Previous EPAID:	Not reported
Generator Flag:	X
Transporter Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	000000

Manifest Data:

EPA ID:	NYD982796377
Manifest Number:	000457153WAS
Date Shipped:	12/23/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	200.00
Unit:	Pounds

EPA ID:	NYD982796377
Manifest Number:	000201007WAS
Date Shipped:	11/11/2008
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	11/11/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	11/12/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	N
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Waste Code:	D008
Hand Code:	H111
Quantity:	23100
Unit:	P

EPA ID:	NYD982796377
Manifest Number:	000892223JJK
Date Shipped:	02/13/2009
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	02/13/2009
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	02/13/2009
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	N
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H141
Quantity:	15
Unit:	G

EPA ID:	NYD982796377
Manifest Number:	NJA5006929
Date Shipped:	03/03/2004

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	03/03/2004
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	03/03/2004
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	03300425
Was Load Rejected:	N
Reason Load Was Rejected:	Not reported

EPA ID:	NYD982796377
Manifest Number:	000198563WAS
Date Shipped:	07/31/2009
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	07/31/2009
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	07/31/2009
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	N
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	F003
Hand Code:	H061
Quantity:	385
Unit:	G

EPA ID:	NYD982796377
Manifest Number:	000201195WAS
Date Shipped:	03/04/2009
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	03/04/2009
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	03/04/2009
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	N
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	2700
Unit:	P

EPA ID:	NYD982796377
Manifest Number:	003536100JJK
Date Shipped:	06/05/2009
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	06/05/2009
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	06/05/2009
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Data Entry Number:	Not reported
Was Load Rejected:	N
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H061
Quantity:	55
Unit:	G

EPA ID:	NYD982796377
Manifest Number:	000196516WAS
Date Shipped:	10/02/2008
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	10/02/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	10/03/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	N
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	F003
Hand Code:	H061
Quantity:	275

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Unit:	G
EPA ID:	NYD982796377
Manifest Number:	009406226FLE
Date Shipped:	1/13/2017
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJR986628162
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported
EPA ID:	NYD982796377
Manifest Number:	009406257FLE
Date Shipped:	1/27/2017
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJR986628162
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

EPA ID:	NYD982796377
Manifest Number:	000422445WAS
Date Shipped:	8/23/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	200.00
Unit:	Pounds

Click this hyperlink while viewing on your computer to access
23 additional NJ MANIFEST: record(s) in the EDR Site Report.

F27 **545 BRUSH AVE/BX/U.P.S** **NY LTANKS** **S100145768**
NNW **545 BRUSH AVENUE** **N/A**
1/8-1/4 **NEW YORK CITY, NY**
0.131 mi.
694 ft. **Site 2 of 9 in cluster F**

Relative:
Lower

Actual:
5 ft.

LTANKS:

Name:	545 BRUSH AVE/BX/U.P.S
Address:	545 BRUSH AVENUE
City,State,Zip:	NEW YORK CITY, NY
Spill Number/Closed Date:	8909242 / 2003-02-27
Facility ID:	8909242
Site ID:	138397
Spill Date:	1989-12-20
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	TOMASELLO
Referred To:	Not reported
Reported to Dept:	1989-12-20
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1990-01-24
Spill Record Last Update:	2004-02-09
Spiller Name:	Not reported
Spiller Company:	Not reported

545 BRUSH AVE/BX/U.P.S (Continued) **S100145768**

Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	118343
DEC Memo:	Not reported
Remarks:	1K TANK FAILED TANK AUDITOR WITH LEAK RATE OF -0.971GPH, OWNER WILL ACCESS SITUATION, TANK MAY HAVE TO BE PULLED.

All TTF:

Facility ID:	8909242
Spill Number:	8909242
Spill Tank Test:	1536600
Site ID:	138397
Tank Number:	Not reported
Tank Size:	0
Material:	0001
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	138397
Operable Unit ID:	936424
Operable Unit:	01
Material ID:	442414
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

28
SSW
1/8-1/4
0.138 mi.
728 ft.

FERRY POINT PARK **NY SWF/LF** **S126022942**
10 HUTCHINSON ROVER PKWY, PENINSULA PROJECTING INTO THE EAST **NY ILI** **N/A**
BRONX, NY

Relative:
Lower

Actual:
12 ft.

SWF/LF:

Name:	FERRY POINT PARK
Address:	10 HUTCHINSON ROVER PKWY, PENINSULA PROJECTING INTO THE EAST RIVER ROUGHLY OPPOSITE TH
City,State,Zip:	BRONX, NY
Flag:	INACTIVE
Region Code:	2

FERRY POINT PARK (Continued) **S126022942**

Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	MSW
Activity Number:	Not reported
Active:	Not reported
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

ILI:

Name:	FERRY POINT PARK
Address:	10 HUTCHINSON ROVER PKWY, PENINSULA PROJECTING INTO THE EAST RIVER ROUGHLY OPPOSITE THE COLLEGE POINT AND MALBA NEIGHBORHOODS OF QUEEN
City,State,Zip:	BRONX, NY
Latitude:	40.809072
Longitude:	-73.837238
Region:	2
SWID:	03S01
NY Inactive List:	Not reported
Inactive Reg Number:	Not reported
Alternative Facility Names:	Not reported
Removed:	Not reported
Why Removed:	Not reported
Location Accuracy:	Not reported
Date Of Last Inspection:	15-Aug-18
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Authorization:	Not reported
Number:	Not reported
Issue Date:	Not reported

FERRY POINT PARK (Continued) **S126022942**

Expiration Date:	Not reported
Start Date:	1945
Stop Date:	1965
Landfill Type:	MSW

F29 NNW 1/8-1/4 0.148 mi. 779 ft.

UNITED PARCEL SERVICE
BRUSH AVE
BRONX, NY 10465

Site 3 of 9 in cluster F

RCRA-SQG **1000398442**
NY CBS AST **NYD986900728**
E MANIFEST
NY MANIFEST
NJ MANIFEST

Relative: Lower

Actual: 5 ft.

RCRA Listings:

Date Form Received by Agency:	20221221
Handler Name:	United Parcel Service - Brush Avenue (Nybru)
Handler Address:	Brush Ave
Handler City,State,Zip:	BRONX, NY 10465
EPA ID:	NYD986900728
Contact Name:	MILLER PONTON
Contact Address:	OAK ST
Contact City,State,Zip:	UNIONDALE, NY 11553
Contact Telephone:	631-316-3854
Contact Fax:	Not reported
Contact Email:	MPONTON@UPS.COM
Contact Title:	CORPORATE ENVIRONMENTAL COORDINATOR
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ny
State District:	NYSDEC R2
Mailing Address:	OAK ST
Mailing City,State,Zip:	UNIONDALE, NY 11553
Owner Name:	535 Brush Avenue Llc
Owner Type:	Private
Operator Name:	United Parcel Service
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline

UNITED PARCEL SERVICE (Continued) **1000398442**

202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20221223
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste
Waste Code:	D002
Waste Description:	Corrosive Waste
Waste Code:	D003
Waste Description:	Reactive Waste
Waste Code:	D007
Waste Description:	Chromium
Waste Code:	D011
Waste Description:	Silver
Waste Code:	D018
Waste Description:	Benzene
Waste Code:	D019
Waste Description:	Carbon Tetrachloride
Waste Code:	D021
Waste Description:	Chlorobenzene
Waste Code:	D026
Waste Description:	Cresol
Waste Code:	D028
Waste Description:	1,2-Dichloroethane
Waste Code:	D035
Waste Description:	Methyl Ethyl Ketone

UNITED PARCEL SERVICE (Continued) **1000398442**

Waste Code: D039
Waste Description: Tetrachloroethylene

Waste Code: NONE
Waste Description: Not Defined

Waste Code: P075
Waste Description: Nicotine, & Salts (Or) Pyridine, 3-(1-Methyl-2-Pyrrolidinyl)-,(S)-, & Salts

Waste Code: U080
Waste Description: Methane, Dichloro- (Or) Methylene Chloride

Waste Code: U112
Waste Description: Acetic Acid, Ethyl Ester (I) (Or) Ethyl Acetate (I)

Waste Code: U122
Waste Description: Formaldehyde

Waste Code: U134
Waste Description: Hydrofluoric Acid (C,T) (Or) Hydrogen Fluoride (C,T)

Waste Code: U154
Waste Description: Methanol (I) (Or) Methyl Alcohol (I)

Waste Code: U162
Waste Description: 2-Propenoic Acid, 2-Methyl-, Methyl Ester (I,T) (Or) Methyl Methacrylate (I,T)

Waste Code: U213
Waste Description: Furan, Tetrahydro-(I) (Or) Tetrahydrofuran (I)

Waste Code: U220
Waste Description: Benzene, Methyl- (Or) Toluene

Waste Code: U239
Waste Description: Benzene, Dimethyl- (I,T) (Or) Xylene (I)

Waste Code: U240
Waste Description: 2,4-D, Salts & Esters (Or) Acetic Acid, (2,4-Dichlorophenoxy)-, Salts & Esters (Or) Dichlorophenoxyacetic Acid 2,4-D

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: EMANUL CIMINELLO JR
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, WY 99999
Owner/Operator Telephone: 212-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: EMANUL CIMINELLO JR

UNITED PARCEL SERVICE (Continued) **1000398442**

Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: UNITED PARCEL SERVICE	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	55 GLENLAKE PKWY NE
Owner/Operator City,State,Zip:	ATLANTA, GA 30328
Owner/Operator Telephone:	551-255-6818
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	CEGOMEZ@UPS.COM

Owner/Operator Indicator:	Operator
Owner/Operator Name: UNITED PARCEL SERVICE	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	55 GLENLAKE PKWY NE
Owner/Operator City,State,Zip:	ATLANTA, GA 30328
Owner/Operator Telephone:	631-316-3854
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	MPONTON@UPS.COM

Owner/Operator Indicator:	Operator
Owner/Operator Name: EMANUL CIMINELLO JR	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: 535 BRUSH AVENUE LLC	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1208 WYATT STREET
Owner/Operator City,State,Zip:	BRONX, NY 10460
Owner/Operator Telephone:	718-828-7272
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Owner/Operator Indicator: Owner
Owner/Operator Name: 535 BRUSH AVENUE LLC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1208 WYATT ST
Owner/Operator City,State,Zip: BRONX, NY 10460
Owner/Operator Telephone: 718-828-7272
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19950418
Handler Name: UNITED PARCEL SERVICE
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060101
Handler Name: UNITED PARCEL SERVICE
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: UNITED PARCEL SERVICE
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19900517
Handler Name: UNITED PARCEL SERVICE
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No

UNITED PARCEL SERVICE (Continued) **1000398442**

Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20220324
Handler Name:	UNITED PARCEL SERVICE - BRUSH AVENUE (NYBRU)
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

Receive Date:	20221221
Handler Name:	UNITED PARCEL SERVICE - BRUSH AVENUE (NYBRU)
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	492110
NAICS Description:	COURIERS AND EXPRESS DELIVERY SERVICES

Has the Facility Received Notices of Violations:

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20220215
Actual Return to Compliance Date:	20221019
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	999
Date of Enforcement Action:	20220928
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	06-2022-0942
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:67
Consent/Final Order Respondent Name: Ups
Consent/Final Order Lead Agency: 0
Enforcement Type: MULTI SITE CA/FO
Enforcement Responsible Person: CAFO
Enforcement Responsible Sub-Organization: R06
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 20220215
Actual Return to Compliance Date: 20221019
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 999
Date of Enforcement Action: 20220928
Enforcement Responsible Agency: EPA
Enforcement Docket Number: 06-2022-0942
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:67
Consent/Final Order Respondent Name: Ups
Consent/Final Order Lead Agency: 0
Enforcement Type: MULTI SITE CA/FO
Enforcement Responsible Person: CAFO
Enforcement Responsible Sub-Organization: R06
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	20220215
Actual Return to Compliance Date:	20221019
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	999
Date of Enforcement Action:	20220928
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	06-2022-0942
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	67
Consent/Final Order Respondent Name:	Ups
Consent/Final Order Lead Agency:	0
Enforcement Type:	MULTI SITE CA/FO
Enforcement Responsible Person:	CAFO
Enforcement Responsible Sub-Organization:	R06
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	20220215
Actual Return to Compliance Date:	20221019
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	999
Date of Enforcement Action:	20220928
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	06-2022-0942
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:67
Consent/Final Order Respondent Name: Ups
Consent/Final Order Lead Agency: 0
Enforcement Type: MULTI SITE CA/FO
Enforcement Responsible Person: CAFO
Enforcement Responsible Sub-Organization: R06
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19930302
Actual Return to Compliance Date: 19930524
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19930526
Enforcement Identifier: 000
Date of Enforcement Action: 19930511
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: NY
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYADS
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19930302
Actual Return to Compliance Date:	19930524
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	000
Date of Enforcement Action:	19930302
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	NY
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	NYADS
Enforcement Responsible Sub-Organization:	R2
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - Records/Reporting
Date Violation was Determined: 20220215
Actual Return to Compliance Date: 20221019
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 999
Date of Enforcement Action: 20220928
Enforcement Responsible Agency: EPA
Enforcement Docket Number: 06-2022-0942
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:67
Consent/Final Order Respondent Name: Ups
Consent/Final Order Lead Agency: 0
Enforcement Type: MULTI SITE CA/FO
Enforcement Responsible Person: CAFO
Enforcement Responsible Sub-Organization: R06
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	20220115
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	CAFO
Evaluation Responsible Sub-Organization:	R06
Actual Return to Compliance Date:	20221019
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20220115
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	CAFO
Evaluation Responsible Sub-Organization:	R06
Actual Return to Compliance Date:	20221019
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20220115
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	CAFO
Evaluation Responsible Sub-Organization:	R06
Actual Return to Compliance Date:	20221019
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20220115
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	CAFO
Evaluation Responsible Sub-Organization:	R06
Actual Return to Compliance Date:	20221019
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930105
Evaluation Responsible Agency:	State

UNITED PARCEL SERVICE (Continued) **1000398442**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	NYADS
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	19930524
Scheduled Compliance Date:	19930526
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930105
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	NYADS
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	19930524
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20100615
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	NYACY
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20220115
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	CAFO
Evaluation Responsible Sub-Organization:	R06
Actual Return to Compliance Date:	20221019
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CBS AST:

CBS Number:	2-000341
ICS Number:	Not reported
PBS Number:	2-601299
MOSF Number:	Not reported
SPDES Number:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Facility Status:	IN SERVICE
Facility Type:	I
Telephone:	(718) 828-8014
Facility Town:	NEW YORK CITY
Region:	STATE
Expiration Date:	03/11/2004
Total Capacity of All Active Tanks(gal):	400
Operator:	MARK MERCHANT
Emergency Contact:	PAUL VETRANO
Emergency Phone:	(718) 706-3121
Owner Name:	UNITED PARCEL SERVICE
Owner Address:	46-05 56 ROAD
Owner City,St,Zip:	MASPETH, NY 11378
Owner Telephone:	(718) 706-3105
Owner Type:	Corporate/Commercial
Owner Sub Type:	Not reported
Mail Name:	UNITED PARCEL SERVICE
Mail Contact Addr:	46-05 56 ROAD
Mail Contact Addr2:	Not reported
Mail Contact Contact:	PLANT ENGINEERING
Mail Contact City,St,Zip:	MASPETH, NY 11378
Mail Phone:	(718) 706-3105

Tank Id:	005D
CAS Number:	107211
Federal ID:	Not reported
Tank Status:	In Service
Install Date:	09/95
Tank Closed:	Not reported
Capacity (Gal):	200
Chemical:	Ethylene glycol
Tank Location:	Indoors, Belowground
Tank Type:	Steel/carbon steel
Total Tanks:	2
Tank Secret:	False
Tank Secondary Containment:	None
Tank Error Status:	No Missing Data
Date Entered:	03/10/1998
Certified Date:	12/20/2001
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	None,Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	00
Pipe Flag:	00
Leak Detection:	00
Overfill Protection:	04
Haz Percent:	50
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	Not reported
Is It There:	False

UNITED PARCEL SERVICE (Continued) **1000398442**

Delinquent:	False
Date Expired:	Not reported
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	11/27/2001

Tank Id:	005C
CAS Number:	107211
Federal ID:	Not reported
Tank Status:	In Service
Install Date:	09/95
Tank Closed:	Not reported
Capacity (Gal):	200
Chemical:	Ethylene glycol
Tank Location:	Indoors, Belowground
Tank Type:	Steel/carbon steel
Total Tanks:	2
Tank Secret:	False
Tank Secondary Containment:	None
Tank Error Status:	No Missing Data
Date Entered:	03/10/1998
Certified Date:	12/20/2001
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	None,Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	00
Pipe Flag:	00
Leak Detection:	00
Overfill Protection:	04
Haz Percent:	50
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	Not reported
Is It There:	False
Delinquent:	False
Date Expired:	Not reported
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	11/27/2001

E MANIFEST:

Manifest Tracking Number:	001211496VES
Last Updated Date:	20190228
Shipped Date:	20190219
Received Date:	20190220
Manifest Status:	Signed

UNITED PARCEL SERVICE (Continued) **1000398442**

Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	1 EDEN LANE
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	1 EDEN LANE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001892719VES
Last Updated Date:	20230103
Shipped Date:	20221213
Received Date:	20221216
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	1 EDEN LANE
Designated Facility Mail Street 2:	L.L.C.
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	L.L.C.
Designated Facility Location Street 2:	1 EDEN LANE
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	002070694VES
Last Updated Date:	20220103
Shipped Date:	20211208
Received Date:	20211210
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	1 EDEN LANE
Designated Facility Mail Street 2:	L.L.C.
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	L.L.C.
Designated Facility Location Street 2:	1 EDEN LANE
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS
Manifest Residue Indicator:	N
Rejection Indicator:	N

UNITED PARCEL SERVICE (Continued) **1000398442**

Manifest Tracking Number:	001301805VES
Last Updated Date:	20190627
Shipped Date:	20190617
Received Date:	20190619
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	1 EDEN LANE
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	1 EDEN LANE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001307667VES
Last Updated Date:	20210623
Shipped Date:	20210617
Received Date:	20210617
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE

UNITED PARCEL SERVICE (Continued) **1000398442**

Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	1 EDEN LANE
Designated Facility Mail Street 2:	L.L.C.
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	L.L.C.
Designated Facility Location Street 2:	1 EDEN LANE
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001670332VES
Last Updated Date:	20200316
Shipped Date:	20200303
Received Date:	20200304
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	EDEN LANE
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	EDEN LANE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	FLANDERS

UNITED PARCEL SERVICE (Continued) **1000398442**

Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001670443VES
Last Updated Date:	20200613
Shipped Date:	20200601
Received Date:	20200605
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	EDEN LANE
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	EDEN LANE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001672071VES
Last Updated Date:	20210106
Shipped Date:	20201210
Received Date:	20201214
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE

UNITED PARCEL SERVICE (Continued) **1000398442**

Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	1 EDEN LANE
Designated Facility Mail Street 2:	L.L.C.
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	L.L.C.
Designated Facility Location Street 2:	1 EDEN LANE
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001672227VES
Last Updated Date:	20210409
Shipped Date:	20210325
Received Date:	20210331
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	1 EDEN LANE
Designated Facility Mail Street 2:	L.L.C.
Designated Facility Mail City:	FLANDERS

UNITED PARCEL SERVICE (Continued) **1000398442**

Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	L.L.C.
Designated Facility Location Street 2:	1 EDEN LANE
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001676379VES
Last Updated Date:	20200925
Shipped Date:	20200921
Received Date:	20200923
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	EDEN LANE
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	EDEN LANE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001982310VES
Last Updated Date:	20220624
Shipped Date:	20220620
Received Date:	20220620
Manifest Status:	Signed

UNITED PARCEL SERVICE (Continued) **1000398442**

Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	1 EDEN LANE
Designated Facility Mail Street 2:	L.L.C.
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	L.L.C.
Designated Facility Location Street 2:	1 EDEN LANE
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS
Manifest Residue Indicator:	N
Rejection Indicator:	N

Federal Waste:

Manifest Tracking Number:	001219427VES
Waste Line Number:	1
Federal Waste Code:	D001
Federal Waste:	IGNITABLE WASTE

Manifest Tracking Number:	001219427VES
Waste Line Number:	1
Federal Waste Code:	D018
Federal Waste:	BENZENE

Manifest Tracking Number:	001219427VES
Waste Line Number:	1
Federal Waste Code:	D019
Federal Waste:	CARBON TETRACHLORIDE

Manifest Tracking Number:	001219427VES
Waste Line Number:	1
Federal Waste Code:	D021
Federal Waste:	CHLOROBENZENE

Manifest Tracking Number:	001219427VES

UNITED PARCEL SERVICE (Continued) **1000398442**

Waste Line Number: 1
Federal Waste Code: D028
Federal Waste: 1,2-DICHLOROETHANE

Manifest Tracking Number: 001219427VES
Waste Line Number: 1
Federal Waste Code: D029
Federal Waste: 1,1-DICHLOROETHYLENE

Manifest Tracking Number: 001219427VES
Waste Line Number: 1
Federal Waste Code: D035
Federal Waste: METHYL ETHYL KETONE

Manifest Tracking Number: 001219427VES
Waste Line Number: 1
Federal Waste Code: D039
Federal Waste: TETRACHLOROETHYLENE

Manifest Tracking Number: 001219427VES
Waste Line Number: 1
Federal Waste Code: D040
Federal Waste: TRICHLORETHYLENE

Manifest Tracking Number: 001219427VES
Waste Line Number: 2
Federal Waste Code: D001
Federal Waste: IGNITABLE WASTE

Manifest Tracking Number: 001219427VES
Waste Line Number: 2
Federal Waste Code: U154
Federal Waste: METHANOL (I) (OR) METHYL ALCOHOL (I)

Manifest Tracking Number: 001219427VES
Waste Line Number: 3
Federal Waste Code: D001
Federal Waste: IGNITABLE WASTE

Manifest Tracking Number: 001219427VES
Waste Line Number: 3
Federal Waste Code: D018
Federal Waste: BENZENE

Manifest Tracking Number: 001219427VES
Waste Line Number: 4
Federal Waste Code: D001
Federal Waste: IGNITABLE WASTE

State Waste:
Manifest Tracking Number: 001219427VES
Waste Line Number: 1
State Waste Code Owner: NY
State Waste Code: B
State Waste: Incineration, heat recovery, burning. Waste management method code to be used on e-Manifest only

UNITED PARCEL SERVICE (Continued) **1000398442**

Manifest Tracking Number: 001219427VES
Waste Line Number: 2
State Waste Code Owner: NY
State Waste Code: B
State Waste: Incineration, heat recovery, burning. Waste management method code to be used on e-Manifest only

Manifest Tracking Number: 001219427VES
Waste Line Number: 3
State Waste Code Owner: NY
State Waste Code: B
State Waste: Incineration, heat recovery, burning. Waste management method code to be used on e-Manifest only

Manifest Tracking Number: 001219427VES
Waste Line Number: 4
State Waste Code Owner: NY
State Waste Code: B
State Waste: Incineration, heat recovery, burning. Waste management method code to be used on e-Manifest only

Transporter:
Manifest Tracking Number: 001219427VES
Transporter Line Number: 1
Transporter EPA ID: NJD080631369
Transporter Name: Veolia Es Technical Solutions

Waste Line:
Manifest Tracking Number: 001219427VES
Waste Line Number: 1
U.S. DOT Hazardous Indicator: Y
U.S. DOT ID Number: UN1950
U.S. DOT Description: Un1950, Waste Aerosols, Flammable,(Each Not Exceeding 1l Capacity), 2.1, Rq (D001), Limited Quantity
Non-Hazardous Waste Description: Not reported
Number of Containers: 1
Container Type Code: DM
Container Type Description: Metal drums, barrels, kegs
Waste Quantity: 140
Quantity Unit of Measure Code: P
Quantity Unit of Measure Description: Pounds
Waste Quantity, in Tons: 0.07
Acute Waste Quantity, in Tons: 0
Non-Acute Waste Quantity, in Tons: 0.07
Waste Quantity, in Kilograms: 63.492104
Acute Waste Quantity, in Kilograms: 0
Non-Acute Waste Quantity, in Kilorgrams: 63.492104
Management Method Code: H141
Management Method Description: STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator: N
Quantity Discrepancy Indicator: N
Waste Type Discrepancy Indicator: N
Waste Density: Not reported
Waste Density Unit of Measure Code: Not reported
Waste Density Unit of Measure Description: Not reported
Form Code: Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Form Code Description: Not reported
Source Code: Not reported
Source Code Description: Not reported
Waste Minimization Code: Not reported
Waste Minimization Code Description: Not reported
Consent Number: Not reported
EPA Waste Indicator: Y

Manifest Tracking Number: 001219427VES
Waste Line Number: 2
U.S. DOT Hazardous Indicator: Y
U.S. DOT ID Number: UN1993
U.S. DOT Description: Un1993, Waste Flammable Liquids, N.O.S., (Methanol), 3, Ii
Non-Hazardous Waste Description: Not reported
Number of Containers: 1
Container Type Code: DM
Container Type Description: Metal drums, barrels, kegs
Waste Quantity: 120
Quantity Unit of Measure Code: P
Quantity Unit of Measure Description: Pounds
Waste Quantity, in Tons: 0.06
Acute Waste Quantity, in Tons: 0
Non-Acute Waste Quantity, in Tons: 0.06
Waste Quantity, in Kilograms: 54.4218
Acute Waste Quantity, in Kilograms: 0
Non-Acute Waste Quantity, in Kilorgrams: 54.4218
Management Method Code: H141
Management Method Description: STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator: N
Quantity Discrepancy Indicator: N
Waste Type Discrepancy Indicator: N
Waste Density: Not reported
Waste Density Unit of Measure Code: Not reported
Waste Density Unit of Measure Description: Not reported
Form Code: Not reported
Form Code Description: Not reported
Source Code: Not reported
Source Code Description: Not reported
Waste Minimization Code: Not reported
Waste Minimization Code Description: Not reported
Consent Number: Not reported
EPA Waste Indicator: Y

Manifest Tracking Number: 001219427VES
Waste Line Number: 3
U.S. DOT Hazardous Indicator: Y
U.S. DOT ID Number: UN1203
U.S. DOT Description: Un1203, Waste Gasoline Mixture, 3, Ii, Rq (D001, D018)
Non-Hazardous Waste Description: Not reported
Number of Containers: 1
Container Type Code: DM
Container Type Description: Metal drums, barrels, kegs
Waste Quantity: 290
Quantity Unit of Measure Code: P
Quantity Unit of Measure Description: Pounds
Waste Quantity, in Tons: 0.145
Acute Waste Quantity, in Tons: 0

UNITED PARCEL SERVICE (Continued) **1000398442**

Non-Acute Waste Quantity, in Tons:	0.145
Waste Quantity, in Kilograms:	131.51935
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	131.51935
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

Manifest Tracking Number:	001219427VES
Waste Line Number:	4
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	UN1479
U.S. DOT Description:	Un1479, Waste Oxidizing Solid, N.O.S., (Hydrogen Peroxide, Water), 5.1, Ii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	1
Container Type Code:	DM
Container Type Description:	Metal drums, barrels, kegs
Waste Quantity:	57
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.0285
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.0285
Waste Quantity, in Kilograms:	25.850355
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	25.850355
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

UNITED PARCEL SERVICE (Continued) **1000398442**

Click this hyperlink while viewing on your computer to access
2 additional US EManifest: record(s) in the EDR Site Report.

NY MANIFEST:

EPA ID:	NYD986900728
Country:	USA
Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVE
Address 2:	Not reported
City,State,Zip:	BRONX, NY 10465
Zip 4:	Not reported
Location Address 1:	545 BRUSH AVE
Location Address 2:	Not reported
Location City,State,Zip:	BRONX, NY 10465
Location Zip 4:	Not reported
Facility Status:	Not reported
Total Tanks:	Not reported
Code:	BP

Mailing:

Mailing Name:	UNITED PARCEL SERVICE
Mailing Contact:	LEO EWERS
Mailing Address 1:	545 BRUSH AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	BRONX, NY 10465
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2126316444

Manifest Data:

Document ID:	NYC3363805
Manifest Status:	Not reported
Trans1 State ID:	JU4819
Year:	1994
Trans2 State ID:	Not reported
Generator Ship Date:	12/08/1994
Trans1 Recv Date:	12/08/1994
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/08/1994
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD980785760
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

MGMT Method Type Code:	Not reported
Waste Code 1:	TETRACHLOROETHYLENE
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	00015
Units:	Gallons (liquids only)
Number of Containers:	001
Container Type:	Metal drums, barrels, kegs
Handling Method:	Recycle
Specific Gravity:	01.00
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	11/28/2017
Trans1 Recv Date:	11/28/2017
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/28/2017
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD980536593
TSDF ID 2:	Not reported
Manifest Tracking Number:	000063951VES
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	IGNITABLE WASTE
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	BENZENE
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	880
Units:	Pounds
Number of Containers:	2

UNITED PARCEL SERVICE (Continued) **1000398442**

Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	11/28/2017
Trans1 Recv Date:	11/28/2017
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/28/2017
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD980536593
TSDF ID 2:	Not reported
Manifest Tracking Number:	000063951VES
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	BENZENE
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	85
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	11/15/2011

UNITED PARCEL SERVICE (Continued) **1000398442**

Trans1 Recv Date:	11/15/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/16/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD980536593
TSDF ID 2:	Not reported
Manifest Tracking Number:	000348544VES
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	MERCURY
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	150
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Recycle
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	11/15/2011
Trans1 Recv Date:	11/15/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/16/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD980536593
TSDF ID 2:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Manifest Tracking Number:	000348544VES
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	IGNITABLE WASTE
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	16
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	IND058484114
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	07/23/2010
Trans1 Recv Date:	07/23/2010
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/19/2010
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	OHD980613541
TSDF ID 2:	Not reported
Manifest Tracking Number:	000340595WAS
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H040
Waste Code a:	IGNITABLE WASTE
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	138
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	IND058484114
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	07/23/2010
Trans1 Recv Date:	07/23/2010
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/19/2010
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	OHD980613541
TSDF ID 2:	Not reported
Manifest Tracking Number:	000340595WAS
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H040
Waste Code a:	IGNITABLE WASTE
Waste Code b:	METHYL ETHYL KETONE
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	152
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1

Document ID:	NYC3498783
Manifest Status:	Not reported
Trans1 State ID:	JU4819
Year:	1995
Trans2 State ID:	Not reported
Generator Ship Date:	03/07/1995
Trans1 Recv Date:	03/07/1995
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/07/1995
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD980785760
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code 1:	TETRACHLOROETHYLENE
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	00014
Units:	Gallons (liquids only)
Number of Containers:	001
Container Type:	Metal drums, barrels, kegs
Handling Method:	Recycle
Specific Gravity:	01.00

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	IND058484114
Year:	2018
Trans2 State ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Generator Ship Date:	06/17/2009
Trans1 Recv Date:	06/17/2009
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/30/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	OHD980613541
TSDF ID 2:	Not reported
Manifest Tracking Number:	000245179WAS
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H040
Waste Code a:	IGNITABLE WASTE
Waste Code b:	METHYL ETHYL KETONE
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	146
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	IND058484114
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	05/01/2007
Trans1 Recv Date:	05/01/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/21/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	OHD980613541

UNITED PARCEL SERVICE (Continued) **1000398442**

TSDF ID 2:	Not reported
Manifest Tracking Number:	000112414WAS
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H040
Waste Code a:	METHANE, DICHLORO- (OR) METHYLENE CHLORIDE
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	89
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	IND058484114
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	05/28/2010
Trans1 Recv Date:	05/28/2010
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/22/2010
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	OHD980613541
TSDF ID 2:	Not reported
Manifest Tracking Number:	000337239WAS
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H040
Waste Code a:	METHANE, DICHLORO- (OR) METHYLENE CHLORIDE
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	71
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1

Click this hyperlink while viewing on your computer to access
255 additional NY MANIFEST: record(s) in the EDR Site Report.

NJ MANIFEST:

EPA ID:	NYD986900728
Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
County:	Not reported
Mailing Address:	EXECUTIVE BLVD
Mailing City,State,Zip:	ELMSFORD, NY 10523
Telephone:	Not reported
Emergency Telephone:	Not reported
Contact:	Not reported
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPAID:	Not reported
Generator Flag:	Not reported
Transporter Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest Data:

EPA ID:	NYD986900728
Manifest Number:	000348544VES
Date Shipped:	11/15/2011
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H141
Quantity:	10.00
Unit:	Pounds

Manifest Year:	Not reported
Waste Code:	D009
Hand Code:	H141
Quantity:	150.00
Unit:	Pounds

EPA ID:	NYD986900728
Manifest Number:	000806607VES
Date Shipped:	2/20/2013
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	93.00
Unit:	Pounds

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	45.00
Unit:	Pounds

EPA ID:	NYD986900728
Manifest Number:	000806607VES
Date Shipped:	2/20/2013
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	93.00
Unit:	Pounds

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	45.00
Unit:	Pounds

EPA ID:	NYD986900728
Manifest Number:	000517494VES
Date Shipped:	2/16/2012
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001 D018
Hand Code:	Not reported
Quantity:	390.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
EPA ID:	NYD986900728
Manifest Number:	000517494VES
Date Shipped:	2/16/2012
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001 D018
Hand Code:	Not reported
Quantity:	390.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
EPA ID:	NYD986900728
Manifest Number:	000517494VES
Date Shipped:	2/16/2012
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001 D018
Hand Code:	Not reported
Quantity:	390.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
EPA ID:	NYD986900728
Manifest Number:	000792415VES
Date Shipped:	4/24/2015
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

EPA ID:	NYD986900728
Manifest Number:	000792415VES
Date Shipped:	4/24/2015
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

EPA ID:	NYD986900728
Manifest Number:	000792415VES
Date Shipped:	4/24/2015
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

EPA ID:	NYD986900728
Manifest Number:	000790847VES
Date Shipped:	3/4/2016
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

EPA ID:	NYD986900728
Manifest Number:	000790847VES
Date Shipped:	3/4/2016
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Click this hyperlink while viewing on your computer to access
19 additional NJ MANIFEST: record(s) in the EDR Site Report.

F30 **UPS-BRUSH AVENUE** **NY TANKS** **U003067748**
NNW **545 BRUSH AVE** **NY SPDES** **N/A**
1/8-1/4 **BRONX, NY 10465**
0.148 mi.
779 ft. **Site 4 of 9 in cluster F**

Relative:
Lower

Actual:
5 ft.

TANKS:

Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVE
City,State,Zip:	NEW YORK, NY 10465
Facility Id:	2-258180
Region:	STATE
DEC Region:	2
Site Status:	Inactive
Program Type:	PBS
Expiration Date:	N/A
UTM X:	597950.90678
UTM Y:	4519097.57721

SPDES:

Name:	Ups-Brush Avenue
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
Permit Number:	NYR00D296
State-Region:	02
Expiration Date:	09/30/2017
Current Major Minor Status:	Minor

UPS-BRUSH AVENUE (Continued) **U003067748**

Primary Facility SIC Code:	Not reported
State Water Body Name:	WESTCHESTER CREEK
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	+40.818 / -73.839
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005
Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	UNITED PARCEL SERVICE INC
Non-Gov Permit Street Address:	UPS-BRUSH AVE
Non-Gov Permit Supplemental Location:	643 W 43RD ST
Non-Gov Permit City:	NEW YORK
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	10036
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	UNITED PARCEL SERVICE INC
Non-Gov Facility Street Address:	UPS-BRUSH AVENUE
Non-Gov Facility Supplemental Location:	643 W 43RD ST
Non-Gov Facility City:	NEW YORK
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10036
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Facility Type:	Not reported
Name:	Ups-Brush Avenue
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	UNITED PARCEL SERVICE INC
Non-Gov Permit Street Address:	643 W 43RD ST
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	NEW YORK
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	10036
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	UNITED PARCEL SERVICE INC
Non-Gov Facility Street Address:	UPS-BRUSH AVENUE
Non-Gov Facility Supplemental Location:	643 W 43RD ST
Non-Gov Facility City:	NEW YORK
Non-Gov Facility State Code:	NY

UPS-BRUSH AVENUE (Continued) **U003067748**

Non-Gov Facility Zip Code:	10036
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Facility Type:	Not reported
Name:	Ups-Brush Avenue
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005
Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	UNITED PARCEL SERVICE INC
Non-Gov Facility Street Address:	UPS-BRUSH AVENUE
Non-Gov Facility Supplemental Location:	643 W 43RD ST
Non-Gov Facility City:	NEW YORK
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10036
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Facility Type:	Not reported

F31 **UNITED PARCEL SERVICE** **NY UST** **U004064869**
NNW **545 BRUSH AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10465**
0.148 mi.
779 ft. **Site 5 of 9 in cluster F**

Relative:
Lower

Actual:
5 ft.

UST:

Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Id/Status:	2-601299 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	01/27/2028

UNITED PARCEL SERVICE (Continued) **U004064869**

UTM X: 597958.40241
UTM Y: 4519250.94552
Site Type: Trucking/Transportation/Fleet Operation

Affiliation Records:

Site Id: 23266
Affiliation Type: Emergency Contact
Company Name: UNITED PARCEL SERVICE
Contact Type: Not reported
Contact Name: SHAKEERA JOHNSON
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (201) 341-0390
EMail: Not reported
Fax Number: Not reported
Modified By: MFLEONAR
Date Last Modified: 2018-02-15

Site Id: 23266
Affiliation Type: Facility Operator
Company Name: UNITED PARCEL SERVICE
Contact Type: Not reported
Contact Name: MILLER PONTON
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 678-8113
EMail: Not reported
Fax Number: Not reported
Modified By: JSMACRI
Date Last Modified: 2023-10-13

Site Id: 23266
Affiliation Type: Facility Owner
Company Name: UNITED PARCEL SERVICE
Contact Type: CORPORATE ENVIRONMENTAL COORDINATOR
Contact Name: MILLER PONTON
Address1: 643 WEST 43RD STREET
Address2: Not reported
City: NEW YORK
State: NY
Zip Code: 10036
Country Code: 001
Phone: (212) 316-3854
EMail: Not reported
Fax Number: Not reported
Modified By: JSMACRI
Date Last Modified: 2023-10-13

Site Id: 23266
Affiliation Type: Mail Contact

UNITED PARCEL SERVICE (Continued) **U004064869**

Company Name:	UNITED PARCEL SERVICE
Contact Type:	Not reported
Contact Name:	MILLER PONTON
Address1:	300 OAK STREET
Address2:	BUILDINGS & SYSTEMS ENGINEERING
City:	UNIONDALE
State:	NY
Zip Code:	11553
Country Code:	001
Phone:	(631) 316-3854
EMail:	MPONTON@UPS.COM
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2023-10-13

Tank Info:

Tank Number:	001
Tank ID:	10247
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	10000
Install Date:	12/01/1985
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Fiberglass coated steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	14
Date Test:	11/07/2013
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	JSMACRI
Last Modified:	10/13/2023

Equipment Records:

C01 - Pipe Location - Aboveground
H05 - Tank Leak Detection - In-Tank System (ATG)
F04 - Pipe External Protection - Fiberglass
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
L09 - Piping Leak Detection - Exempt Suction Piping
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
B00 - Tank External Protection - None
E04 - Piping Secondary Containment - Double walled UG

Tank Number:	001-A
Tank ID:	167541
Tank Status:	Closed - Removed
Material Name:	Closed - Removed

UNITED PARCEL SERVICE (Continued) **U004064869**

Capacity Gallons:	4000
Install Date:	10/01/1986
Date Tank Closed:	08/01/1995
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	99
Date Test:	12/01/1992
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
I00 - Overfill - None
H04 - Tank Leak Detection - Groundwater Well
B02 - Tank External Protection - Original Sacrificial Anode
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None

Tank Number:	002
Tank ID:	45358
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	500
Install Date:	10/01/1986
Date Tank Closed:	08/01/1995
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	9999
Common Name of Substance:	Other
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
B01 - Tank External Protection - Painted/Asphalt Coating
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
B02 - Tank External Protection - Original Sacrificial Anode

UNITED PARCEL SERVICE (Continued) **U004064869**

D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None

Tank Number:	003
Tank ID:	45359
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	500
Install Date:	10/01/1986
Date Tank Closed:	08/01/1995
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	9999
Common Name of Substance:	Other
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
I00 - Overfill - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
B02 - Tank External Protection - Original Sacrificial Anode

Tank Number:	004
Tank ID:	52167
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	4000
Install Date:	09/01/1995
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	14
Date Test:	04/09/2004
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	JSMACRI
Last Modified:	10/13/2023

Equipment Records:

UNITED PARCEL SERVICE (Continued) **U004064869**

C01 - Pipe Location - Aboveground
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
F04 - Pipe External Protection - Fiberglass
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
G04 - Tank Secondary Containment - Double-Walled (Underground)
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
K01 - Spill Prevention - Catch Basin
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
B04 - Tank External Protection - Fiberglass
J01 - Dispenser - Pressurized Dispenser
E04 - Piping Secondary Containment - Double walled UG

F32 **UPS** **NY LTANKS** **S102180041**
NNW **545 BRUSH AVE** **NY CBS** **N/A**
1/8-1/4 **BRONX, NY 10465** **NY Spills**
0.148 mi.
779 ft. **Site 6 of 9 in cluster F**

Relative:
Lower

Actual:
5 ft.

LTANKS:

Name:	545 BRUSH AVENUE
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	8908245 / 1992-09-30
Facility ID:	8908245
Site ID:	212269
Spill Date:	1989-11-17
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	B4
Cleanup Ceased:	1992-09-30
SWIS:	0301
Investigator:	BATTISTA
Referred To:	Not reported
Reported to Dept:	1989-11-17
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1989-11-29
Spill Record Last Update:	1994-05-12
Spiller Name:	Not reported
Spiller Company:	SAME
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	175908
DEC Memo:	Not reported
Remarks:	4K TANK TANK AUDITOR INCONCLUSIVE LEAK RATE.E.I AND R.

UPS (Continued) **S102180041**

All TTF:

Facility ID:	8908245
Spill Number:	8908245
Spill Tank Test:	1536438
Site ID:	212269
Tank Number:	Not reported
Tank Size:	0
Material:	0001
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	212269
Operable Unit ID:	935699
Operable Unit:	01
Material ID:	444995
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	Not reported
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

CBS:

Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
CBS Number:	2-000341
Program Type:	CBS
Facility Status:	Unregulated/Closed
Expiration Date:	Not reported
Dec Region:	2
UTMX:	597936.71079
UTMY:	4519223.33254

SPILLS:

Name:	545 BRUSH AVENUE
Address:	545 BRUSH AVENUE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9307821 / 1993-09-27
Facility ID:	9307821
Facility Type:	ER
DER Facility ID:	284956

UPS (Continued) **S102180041**

Site ID:	138398
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	0301
Spill Date:	1993-09-27
Investigator:	CAMMISA
Referred To:	Not reported
Reported to Dept:	1993-09-27
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	1993-09-27
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1993-09-28
Spill Record Last Update:	2004-09-30
Spiller Name:	Not reported
Spiller Company:	UNK - VEHICLE
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	Not reported
Remarks:	SORBENT WAS APPLIED BUT MARX OF MATERIAL WASHED TO STORM DRAIN - TRUCK ON FRIDAY CAME BY FOR ABSORBENT - NOTIFIED IWCS.

All Materials:

Site ID:	138398
Operable Unit ID:	986334
Operable Unit:	01
Material ID:	394073
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Not reported
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

Name:	UPS
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
Spill Number/Closed Date:	2207848 / Not Reported
Facility ID:	2207848
Facility Type:	ER
DER Facility ID:	593338
Site ID:	647133
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301

UPS (Continued) **S102180041**

Spill Date:	2022-12-21
Investigator:	DXYE
Referred To:	Not reported
Reported to Dept:	2022-12-21
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	1
Date Entered In Computer:	2022-12-21
Spill Record Last Update:	2022-12-21
Spiller Name:	Not reported
Spiller Company:	UPS
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	BRIDGET
DEC Memo:	12/21/22 - Ye - DDO - Spoke with the caller, who is from Haz-Mat One. UPS, one of their clients, reported a punctured saddle tank that spilled 20 gallons of diesel. Miller Environmental is currently performing clean-up. Miller PM: Michael (631) 603-2564. Spoke with Michael. The spill is halfway cleaned up. They are first focusing the cleanup on the main part of the road, where there's a lot of traffic. They arrived in time to put sausage booms to prevent oil entering the soil and are using speedy dry and citrus cleaner. There are no drain impacts. They will send photos and the fully executed manifest.
Remarks:	punctured saddle tank, MILLER Env for clean up

All Materials:

Site ID:	647133
Operable Unit ID:	1394103
Operable Unit:	01
Material ID:	2409594
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20.00
Units:	G
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Name:	UPS
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	1807344 / 2022-07-06
Facility ID:	1807344
Facility Type:	ER

UPS (Continued) **S102180041**

DER Facility ID:	175908
Site ID:	578105
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	0301
Spill Date:	2018-10-09
Investigator:	RHLIN
Referred To:	Not reported
Reported to Dept:	2018-10-09
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2018-10-09
Spill Record Last Update:	2022-07-06
Spiller Name:	LAWRENCE ANDERSON
Spiller Company:	UPS
Spiller Address:	545 BRUSH AVE
Spiller Company:	999
Contact Name:	LAWRENCE ANDERSON
DEC Memo:	1010/18-Zhune spoke to Lawrence Anderson. Lawrence said equipment failure. There is no spill only equipment failure. Hydrostat test in the sump failed the test. Equipment need to be repair. 7/6/22-Lin-No release to the environmental. Case closed. UPS environmental coordinator: Miller Ponton 631-316-3854
Remarks:	test fail dispenser pan for #2

All Materials:

Site ID:	578105
Operable Unit ID:	1325857
Operable Unit:	01
Material ID:	2334518
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Name:	UPS
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9507165 / 2005-07-15
Facility ID:	9507165
Facility Type:	ER

UPS (Continued) **S102180041**

DER Facility ID:	175908
Site ID:	212270
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	B3
SWIS:	0301
Spill Date:	1995-09-12
Investigator:	MJHAGGER
Referred To:	Not reported
Reported to Dept:	1995-09-12
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1948-12-27
Spill Record Last Update:	2005-07-15
Spiller Name:	Not reported
Spiller Company:	SAME
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	PAUL HAMMEL
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was M TIBBE TRANSFERED FROM SIGONA TO TIBBE. 7/15/2005 JAA (Jack Aversa) file review. Reviewed UST closure report (Jan 1996) - requested by Mike Haggerty and faxed by LBG on 6/17/2005, Report Appendix- faxed by LBG on 6/27/2005, and Disposal receipts (faxed by LBG on 7/15/2005). Leggette, Brashears, and Graham, Inc (LBG) retained by UPS to observe and document the removal of tanks and piping. Two 550 gallon used oil USTs (1 steel, 1 fiberglass) and one 4,000 gallon (double wall steel, fiberglass coated) UST were removed from 2 separate excavations on Sept 5,12 and 13, 1995. Approx 20 feet of 1 inch diameter steel piping connected to a 10k gallon heating oil UST were replaced. UST remvoal and piping replacement conducted by Gas Installations Inc (GI), of Inwood NY. Steel tanks transported by GI to Broxn Iron and Metal works for recycling (receipt provided). FRP tank crushed and disposed by GI at a sanitary landfill. PID readings showed non-detect for used oil ust soil samples. 4 excavation samples were sent to the lab and were non-detect for BTEX. amd VOCs, non-detect for RCRA metals. UG piping confirmatory samples - 2 PAH's slightly exceeded STARS. Gasoline UST removal - soil screened with PID and separated into 2 piles(clean and gasoline impacted). Approx 100 yards stockpiled and later shipped off site for disposal/recycling (receipt included - soil remediation

UPS (Continued) **S102180041**

of Philadelphia). 6 post excavation samples indicated minor exceedances for total BTEX and MTBE.
Receipts provided for tank bottoms. PBS # 2-601299 - tanks shown as closed. No further action
required. File closed.

Remarks: FOUND CONTAMINATED SOIL AND SOME SHEEN ON GROUND WATER

All Materials:

Site ID:	212270
Operable Unit ID:	1018029
Operable Unit:	01
Material ID:	361593
Material Code:	0064A
Material Name:	unknown material
Case No.:	Not reported
Material FA:	Other
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

F33 NNW 1/8-1/4 0.148 mi. 779 ft. **UNITED PARCEL SERVICE 545 BRUSH AVENUE BRONX, NY 10465** **NY AST** **A100520422 N/A**

Site 7 of 9 in cluster F

Relative: Lower

Actual: 5 ft.

AST:

Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-000341
Program Type:	CBS
UTM X:	597936.71079
UTM Y:	4519223.33254
Expiration Date:	N/A
Site Type:	Trucking/Transportation/Fleet Operation

Tank Info:

Tank Number:	005C
Tank Id:	192772
Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - In Place
Pipe Model:	Not reported
Install Date:	09/01/1995
Capacity Gallons:	200
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	06/08/2012
Register:	True

UNITED PARCEL SERVICE (Continued) **A100520422**

Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	Not reported

Tank Number:	005D
Tank Id:	192773
Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - In Place
Pipe Model:	Not reported
Install Date:	09/01/1995
Capacity Gallons:	200
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	06/08/2012
Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	Not reported

F34 **UNITED PARCEL SERVICE** **NY AST** **A100521063**
NNW **545 BRUSH AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10465**
0.148 mi.
779 ft. **Site 8 of 9 in cluster F**

Relative:
Lower

Actual:
5 ft.

AST:

Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-601299
Program Type:	PBS
UTM X:	597958.40241
UTM Y:	4519250.94552
Expiration Date:	01/27/2028
Site Type:	Trucking/Transportation/Fleet Operation

Affiliation Records:

Site Id:	23266
Affiliation Type:	Emergency Contact
Company Name:	UNITED PARCEL SERVICE
Contact Type:	Not reported
Contact Name:	SHAKEERA JOHNSON
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(201) 341-0390
EMail:	Not reported
Fax Number:	Not reported

UNITED PARCEL SERVICE (Continued) **A100521063**

Modified By:	MFLEONAR
Date Last Modified:	2018-02-15

Site Id:	23266
Affiliation Type:	Facility Operator
Company Name:	UNITED PARCEL SERVICE
Contact Type:	Not reported
Contact Name:	MILLER PONTON
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 678-8113
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2023-10-13

Site Id:	23266
Affiliation Type:	Facility Owner
Company Name:	UNITED PARCEL SERVICE
Contact Type:	CORPORATE ENVIRONMENTAL COORDINATOR
Contact Name:	MILLER PONTON
Address1:	643 WEST 43RD STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10036
Country Code:	001
Phone:	(212) 316-3854
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2023-10-13

Site Id:	23266
Affiliation Type:	Mail Contact
Company Name:	UNITED PARCEL SERVICE
Contact Type:	Not reported
Contact Name:	MILLER PONTON
Address1:	300 OAK STREET
Address2:	BUILDINGS & SYSTEMS ENGINEERING
City:	UNIONDALE
State:	NY
Zip Code:	11553
Country Code:	001
Phone:	(631) 316-3854
EMail:	MPONTON@UPS.COM
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2023-10-13

Tank Info:

Tank Number:	005A

UNITED PARCEL SERVICE (Continued) **A100521063**

Tank Id: 54021
Material Code: 0015
Common Name of Substance: Motor Oil

Equipment Records:
I04 - Overfill - Product Level Gauge (A/G)
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
L09 - Piping Leak Detection - Exempt Suction Piping
K01 - Spill Prevention - Catch Basin
E00 - Piping Secondary Containment - None
F00 - Pipe External Protection - None
D02 - Pipe Type - Galvanized Steel

Tank Location: Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 09/01/1995
Capacity Gallons: 200
Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: JSMACRI
Last Modified: 10/13/2023
Material Name: motor oil

Tank Number: 005B
Tank Id: 54022
Material Code: 0022
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:
J00 - Dispenser - None
I04 - Overfill - Product Level Gauge (A/G)
C02 - Pipe Location - Underground/On-ground
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
E00 - Piping Secondary Containment - None
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
F00 - Pipe External Protection - None

Tank Location: Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service

UNITED PARCEL SERVICE (Continued) **A100521063**

Pipe Model:	Not reported
Install Date:	09/01/1995
Capacity Gallons:	200
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	JSMACRI
Last Modified:	10/13/2023
Material Name:	waste oil/used oil

F35 **UNITED PARCEL SERVICE** **UST FINDER** **1028572234**
NNW **545 BRUSH AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10465**
0.148 mi.
779 ft. **Site 9 of 9 in cluster F**

Relative:
Lower

Actual:
5 ft.

UST FINDER:

Object ID:	302595
Facility ID:	NY23266
Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Address Match Type:	Not reported
Open USTs:	2
Closed USTs:	3
TOS USTs:	0
Population 1500ft:	56
Private Wells 1500ft:	0
Within 100yr Floodplain:	No
Land Use:	Developed, High Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Facility Status:	Open UST(s)
Date of Last Inspection:	Not reported
EPA Region:	2
Tribe:	Not reported
Coordinate Source:	State
X Coord:	-73.838543
Y Coord:	40.817054
Latitude:	40.817054
Longitude:	-73.838543

UST FINDER:

Object ID:	1219826
Facility ID:	NY23266
Tank ID:	NY26950
Tank Status:	Closed
Installation Date:	1986/10/01 16:00:00+00

UNITED PARCEL SERVICE (Continued) **1028572234**

Removal Date: Not reported
Tank Capacity: 500
Substances: Not reported
Tank Wall Type: Not reported

Object ID: 1219827
Facility ID: NY23266
Tank ID: NY29421
Tank Status: Closed
Installation Date: 1986/10/01 16:00:00+00
Removal Date: Not reported
Tank Capacity: 500
Substances: Not reported
Tank Wall Type: Not reported

Object ID: 1219828
Facility ID: NY23266
Tank ID: NY31893
Tank Status: Closed
Installation Date: 1986/10/01 16:00:00+00
Removal Date: Not reported
Tank Capacity: 4000
Substances: Not reported
Tank Wall Type: Not reported

Object ID: 1219829
Facility ID: NY23266
Tank ID: NY28196
Tank Status: Open
Installation Date: 1985/12/01 16:00:00+00
Removal Date: Not reported
Tank Capacity: 10000
Substances: Not reported
Tank Wall Type: Not reported

Object ID: 1219830
Facility ID: NY23266
Tank ID: NY28621
Tank Status: Open
Installation Date: 1995/09/01 15:59:59+00
Removal Date: Not reported
Tank Capacity: 4000
Substances: Not reported
Tank Wall Type: Not reported

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36 **N Y BRUSH LLC** **RCRA-LQG** **1010327866**
NNW **650 BRUSH AVE** **NY MANIFEST** **NYR000140368**
1/8-1/4 **BRONX, NY 10465**
0.205 mi.
1083 ft.

Relative:
Lower

Actual:
9 ft.

RCRA Listings:
Date Form Received by Agency: 20070101
Handler Name: N Y Brush Llc
Handler Address: Brush Ave
Handler City,State,Zip: BRONX, NY 10465-1804
EPA ID: NYR000140368

N Y BRUSH LLC (Continued) **1010327866**

Contact Name:	CHENG LU
Contact Address:	15TH AVE
Contact City,State,Zip:	COLLEGE POINT, NY 11356
Contact Telephone:	718-358-2000 x2535
Contact Fax:	Not reported
Contact Email:	LUC@PEPSI-NY.COM
Contact Title:	Not reported
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ny
State District:	NYSDEC R2
Mailing Address:	15TH AVE
Mailing City,State,Zip:	COLLEGE POINT, NY 11356
Owner Name:	Ny Brush Llc C/O Pepsi-Cola Bottling Co
Owner Type:	Private
Operator Name:	N Y Brush Llc
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No

N Y BRUSH LLC (Continued) **1010327866**

Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: N Y BRUSH LLC	
Legal Status:	Private
Date Became Current:	20060314
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: NY BRUSH LLC C/O PEPSI-COLA BOTTLING CO	
Legal Status:	Private
Date Became Current:	20060314
Date Ended Current:	Not reported
Owner/Operator Address:	50-35 56TH RD
Owner/Operator City,State,Zip:	MASPETH, NY 11378
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: N Y BRUSH LLC	
Legal Status:	Private
Date Became Current:	20060314
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: NY BRUSH LLC C/O PEPSI-COLA BOTTLING CO	
Legal Status:	Private
Date Became Current:	20060314
Date Ended Current:	Not reported
Owner/Operator Address:	50-35 56TH RD
Owner/Operator City,State,Zip:	MASPETH, NY 11378
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

N Y BRUSH LLC (Continued) **1010327866**

Historic Generators:

Receive Date:	20060628
Handler Name: N Y BRUSH LLC	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20070101
Handler Name: N Y BRUSH LLC	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20060629
Handler Name: N Y BRUSH LLC	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Has the Facility Received Notices of Violations:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported

N Y BRUSH LLC (Continued) **1010327866**

Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	20130924
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	R2STP
Evaluation Responsible Sub-Organization:	RCB
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

NY MANIFEST:

EPA ID:	NYR000140368
Country:	USA
Name:	NY BRUSH LLC C/O PEPSI BOTTLING CO OF NY
Address:	650 BRUSH AVE
Address 2:	Not reported
City,State,Zip:	BRONX, NY 10465-1804
Zip 4:	Not reported
Location Address 1:	650 BRUSH AVENUE
Location Address 2:	Not reported
Location City,State,Zip:	BORNX, NY
Location Zip 4:	Not reported
Facility Status:	Not reported
Total Tanks:	Not reported
Code:	BP

N Y BRUSH LLC (Continued) **1010327866**

Mailing:

Mailing Name:	NY BRUSH LLC C/O PEPSI BOTTLING CO OF NY
Mailing Contact:	ALEXANDER VALLI
Mailing Address 1:	50 34 56TH ROAD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	MASPETH, NY 11378
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	9086687777

Manifest Data:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYR000097972
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	07/13/2006
Trans1 Recv Date:	07/13/2006
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/14/2006
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000140368
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD049836679
TSDF ID 2:	Not reported
Manifest Tracking Number:	NYG3468771
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code a:	B007
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	21383
Units:	Kilograms
Number of Containers:	1
Container Type:	Dump truck
Handling Method:	Landfill

N Y BRUSH LLC (Continued) **1010327866**

Specific Gravity: 1

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37 NNW 1/4-1/2 0.315 mi. 1664 ft.

H.O. PENN MACHINERY COMPANY INC
699 BRUSH AVE
BRONX, NY 10465

NY LTANKS **U003644410**
NY TANKS **N/A**
NY Spills
NY SPDES

Relative: Lower

Actual: 10 ft.

LTANKS:

Name:	CLOSED-LACKOF RECENT INFO
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9200766 / 2003-03-07
Facility ID:	9200766
Site ID:	186683
Spill Date:	1992-04-20
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	ADMIN. CLOSED
Referred To:	Not reported
Reported to Dept:	1992-04-20
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1992-04-24
Spill Record Last Update:	2003-03-07
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	156030
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was ADMIN.CLOSED 03/07/2003 Closed Due To The Nature / Extent Of The Spill Report
Remarks:	3K. CLOSED DUE TO LACK OF ANY RECENT INFO-DOES NOT MEET ANY CLEANUP REQUIREMENTS.

All TTF:

Facility ID:	9200766
Spill Number:	9200766
Spill Tank Test:	1539893
Site ID:	186683
Tank Number:	Not reported
Tank Size:	0
Material:	0022

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	186683
Operable Unit ID:	964580
Operable Unit:	01
Material ID:	415541
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

Name:	H O PENN MACHINERY CO
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
Spill Number/Closed Date:	9612128 / 2006-12-13
Facility ID:	9612128
Site ID:	186684
Spill Date:	1997-01-08
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	C3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	rvketani
Referred To:	Not reported
Reported to Dept:	1997-01-08
CID:	270
Water Affected:	Not reported
Spill Notifier:	Affected Persons
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1997-01-08
Spill Record Last Update:	2006-12-18
Spiller Name:	FRED SCILIANO
Spiller Company:	H O PENN
Spiller Address:	699 BRUSH AVE
Spiller County:	001
Spiller Contact:	FRED SCILIANO

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Spiller Phone: (718) 409-8500
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 324195
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was MULQUEEN 11/8/04 - Austin - received Site assessment/tank closure report from Ira Conklin and sons for H.O. Penn on 8/5/04 - report dated 5/12/97 - end This was NOT transferred to CO 11/16/06 - Austin - Reassigned from Austin to Ketani for followup/review - end 12/6/06 - Raphael Ketani. The site is owned and occupied by H O Penn Machinery Co., Inc., 699 Brush Avenue, Bronx, 10465. The NYC Property Tax database and Property Shark do not list 699 Brush Avenue. The parent company is H O Penn Machinery Co., Inc., 122 Noxon Road, Poughkeepsie, NY, 12603, (845) 452-1200. The site in the Bronx is (718) 863-3800. The PBS case is #2-064084 and there are 2 tanks that were closed 1/1/97 and 6 active tanks. The active tanks are: 2-2000 gal. with lube oil and 1-2000 gal. with waste oil; 1-500 gal. with lube oil; 1-3000 gal. with diesel; 1-6000 gal. with #2 oil. These 6 tanks were installed 2/1/97. There was a tank test failure on 1/8/97 and the finding of contaminated soil around the tank. The caller was Stacey Pettine of Ira D. Conklin & Sons (914) 561-1512. I called H O Penn Machinery Co at (718) 863-3800, but could only leave a voice mail for Jeff Baumann of the Service Department. I sent a CSL. 12/8/06 - Raphael Ketani. Donna Eagan of H O Penn's Poughkeepsie office (845) 437-4069 left a voice mail yesterday stating that she will be working with DEC as Mr. Baumann is out. She asked me to call her to discuss what DEC needs in the way of documentation. I tried calling her, but could only leave a message. 12/11/06 - Raphael Ketani. Ms. Eagan called me. She said that she had a copy of the cleanup closure report for the Bronx site. I asked her to send me a copy. She said she would. 12/13/06 - Raphael Ketani. I received the closure report from Donna Egan. The report contained a short narative section, tables of PID readings for each excavation area - there was only a detection of 149.7 ppm for only the floor of excavation #1, a tank location diagram, a set of end-point soil analytical results for each excavation site - there were no detections, a tank cleaning certificat, a soil manifest, bills of lading for the tank bottoms, and soil tracking forms. Based on the documentation in the closure report, I am closing the case.
Remarks: contaminated soil around tank

All Materials:
Site ID: 186684
Operable Unit ID: 1043629
Operable Unit: 01
Material ID: 556396
Material Code: 0015
Material Name: motor oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Resource Affected: Soil
Oxygenate: Not reported

Site ID: 186684
Operable Unit ID: 1043629

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Operable Unit:	01
Material ID:	556397
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

Site ID:	186684
Operable Unit ID:	1043629
Operable Unit:	01
Material ID:	556395
Material Code:	0010
Material Name:	hydraulic oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

TANKS:

Name:	H O PENN MACHINERY CO
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
Facility Id:	2-242586
Region:	STATE
DEC Region:	2
Site Status:	Inactive
Program Type:	PBS
Expiration Date:	N/A
UTM X:	597994.29622
UTM Y:	4519272.64068

SPILLS:

Name:	BUSINESS
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	1702321 / 2017-06-15
Facility ID:	1702321
Facility Type:	ER
DER Facility ID:	156030
Site ID:	551454
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	2017-06-08
Investigator:	PXLAKHAN
Referred To:	Not reported

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Reported to Dept:	2017-06-08
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2017-06-08
Spill Record Last Update:	2017-06-15
Spiller Name:	Not reported
Spiller Company:	HAMPAN
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	MARCUS WESAW
DEC Memo:	06/08/17 - Lakhani The property is a Caterpillar dealership. The dealership has one Caterpillar in operation in the shop bay. During a normal procedure at the dealership, the Caterpillar's fuel line ruptured releasing 25 gallons of diesel onto the concrete. No drains or catch basins were affected. Miller Environmental was hired to complete the cleanup and provide DEC with a report. Contact for H.O. Penn Machinery Company, the dealership, is Markus Wesaw (Cell: 845-416-7173, Ph: 845-437-4069) 06/15/17 File Review: Spill Report (Miller Environmental, 06/14/17) - Miller was contacted by H.O. Penn Machinery Company, Inc. on 06/08/17 with a report of a hydraulic oil leak at the location. Upon inspection of the impacted area, it appeared that while working on payloader a hydraulic oil line was cut and hydraulic oil was released onto the concrete pavement. HO Penn personnel applied absorbents. Miller applied additional speedy dry to all impacted areas to contain and recover the discharged product. The speedy dry was swept up and containerized prior to offsite disposal. Miller reports that all impacted material has been recovered and disposed of an it appears that no further action is warranted regarding the spill. Spill is closed.
Remarks:	spill on pavement. clean up crew in route

All Materials:

Site ID:	551454
Operable Unit ID:	1299543
Operable Unit:	01
Material ID:	2305761
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	25.00
Units:	G
Recovered:	Not reported
Resource Affected:	Not reported

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Oxygenate:	Not reported

Name:	H.O. PENN MACHINERY
Address:	699 BRUSH AVE.
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0803910 / 2008-07-07
Facility ID:	0803910
Facility Type:	ER
DER Facility ID:	350003
Site ID:	400723
DEC Region:	2
Spill Cause:	Human Error
Spill Class:	Not reported
SWIS:	0301
Spill Date:	2008-07-03
Investigator:	hrpatel
Referred To:	Not reported
Reported to Dept:	2008-07-03
CID:	406
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-07-03
Spill Record Last Update:	2008-07-07
Spiller Name:	JIM STANCO
Spiller Company:	CENTRAL PETROLIUM
Spiller Address:	147 GAZZA BLVD.
Spiller Company:	001
Contact Name:	DONNA EGAN
DEC Memo:	07/07/08-Hiralkumar Patel. spoke with Jim at Central petorleum. oil spilled due to loose fittings on fill box. spilled on concrete pavement. no soil/sewer/drain affected. all cleaned up. case closed.
Remarks:	During a delivery....Mechanical / operator error. Old fitting on the fill pipe of the UST and fill nozzle was not in secure enough. Spill cause was a combo of both. Pavement impacted. No sewers or waterways etc. Used a machine for clean up. Material was put into a drum.

All TTF:

Facility ID:	0803910
Spill Number:	0803910
Spill Tank Test:	2486426
Site ID:	400723
Tank Number:	Not reported
Tank Size:	3000
Material:	0008
EPA UST:	Not reported
UST:	True
Cause:	04
Source:	02

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Watchdog
Last Modified Date:	Not reported

All Materials:

Site ID:	400723
Operable Unit ID:	1157537
Operable Unit:	01
Material ID:	2148561
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	16.00
Units:	G
Recovered:	16.00
Resource Affected:	Soil
Oxygenate:	Not reported

Name:	H.P.O. PENN TRUCK
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0606856 / 2006-09-14
Facility ID:	0606856
Facility Type:	ER
DER Facility ID:	156030
Site ID:	370272
DEC Region:	2
Spill Cause:	Other
Spill Class:	C4
SWIS:	0301
Spill Date:	2006-09-14
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2006-09-14
CID:	444
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2006-09-14
Spill Record Last Update:	2006-09-14
Spiller Name:	DONNA EGAN
Spiller Company:	H.P.O. PENN TRUCK
Spiller Address:	699 BRUSH AVE
Spiller Company:	001
Contact Name:	DONNA EGAN
DEC Memo:	Not reported

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Remarks: AN ENGINE IN THE BACK OF A TRUCK FELL OVER AND KNOCKED A DRUM HOLDING OIL OVER: SOME MAY HAVE SPILLED OUT ON ROADWAY ALONG LONG ISLAND EXPRESSWAY AND BRONX: MOST WAS IN BACK OF TRUCK: ITY HAPPENED IN MIDDLE OF NIGHT WITH NIGHT DRIVER AND WHEN CALLER CAN GET A HOLD OF DRIVER SHE WILL HAVE MORE INFO: STILL INVESTIGATING:

All Materials:

Site ID:	370272
Operable Unit ID:	1128088
Operable Unit:	01
Material ID:	2117738
Material Code:	0015
Material Name:	motor oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	25.00
Units:	G
Recovered:	25.00
Resource Affected:	Soil
Oxygenate:	Not reported

Site ID:	370272
Operable Unit ID:	1128088
Operable Unit:	01
Material ID:	2117698
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

SPDES:

Name:	H.O. Penn Machinery Company Inc
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
Permit Number:	NYR00D814
State-Region:	02
Expiration Date:	09/30/2017
Current Major Minor Status:	Minor
Primary Facility SIC Code:	Not reported
State Water Body Name:	WESTCHESTER CREEK
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	+40.819 / -73.837
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Permit Street Address:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Permit Supplemental Location:	122 NOXON RD
Non-Gov Permit City:	POUGHKEEPSIE
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	12603
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Facility Street Address:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Facility Supplemental Location:	122 NOXON ROAD
Non-Gov Facility City:	POUGHKEEPSIE
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	12603
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Facility Type:	Not reported

Name:	H.O. Penn Machinery Company Inc
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005

Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Permit Street Address:	122 NOXON RD
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	POUGHKEEPSIE
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	12603
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Facility Street Address:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Facility Supplemental Location:	122 NOXON ROAD
Non-Gov Facility City:	POUGHKEEPSIE
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	12603
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Facility Type:	Not reported

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Name:	H.O. Penn Machinery Company Inc
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005
Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Facility Street Address:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Facility Supplemental Location:	122 NOXON ROAD
Non-Gov Facility City:	POUGHKEEPSIE
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	12603
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Facility Type:	Not reported

G38 **VERIZON NEW YORK INC (NY90549)** **NY LTANKS** **S100144737**
NW **500 ZEREGA AVENUE** **NY TANKS** **N/A**
1/4-1/2 **BRONX, NY 10473** **NY NYC LAND USE**
0.317 mi.
1672 ft. **Site 1 of 2 in cluster G**

Relative:
Lower

Actual:
4 ft.

LTANKS:

Name:	500 ZEREGA AVENUE
Address:	500 ZEREGA AVENUE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	8703906 / 1996-08-06
Facility ID:	8703906
Site ID:	270294
Spill Date:	1987-08-11
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	A3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	1987-08-11
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False

VERIZON NEW YORK INC (NY90549) (Continued) **S100144737**

Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1987-08-20
Spill Record Last Update:	1997-04-17
Spiller Name:	Not reported
Spiller Company:	NEW YORK TELEPHONE/NYNEX
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	220114
DEC Memo:	Not reported
Remarks:	EXCAVATE - ISOLATE - RETEST TANKS.

All TTF:

Facility ID:	8703906
Spill Number:	8703906
Spill Tank Test:	1531345
Site ID:	270294
Tank Number:	001
Tank Size:	550
Material:	Not reported
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	1.27
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

Facility ID:	8703906
Spill Number:	8703906
Spill Tank Test:	1531346
Site ID:	270294
Tank Number:	002
Tank Size:	550
Material:	Not reported
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	1.27
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

Facility ID:	8703906
Spill Number:	8703906
Spill Tank Test:	1531347
Site ID:	270294

VERIZON NEW YORK INC (NY90549) (Continued) **S100144737**

Tank Number:	003
Tank Size:	550
Material:	Not reported
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	1.27
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	270294
Operable Unit ID:	910529
Operable Unit:	01
Material ID:	470116
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

TANKS:

Name:	VERIZON NEW YORK INC (NY90549)
Address:	500 ZEREGA AVENUE
City,State,Zip:	BRONX, NY 10473
Facility Id:	2-343587
Region:	STATE
DEC Region:	2
Site Status:	Active
Program Type:	PBS
Expiration Date:	12/14/2027
UTM X:	597533.55556
UTM Y:	4519149.05928

NYC LAND USE:

Name:	Not reported
Address:	500 ZEREGA AVENUE
City,State,Zip:	BRONX, NY 10473
Latitude:	40.8176118
Longitude:	-73.8432033
Type Of Ownership Code:	Not reported
Owner Name:	VERIZON NEW YORK INC.
Borough:	BX
Tax Block:	3542
Tax Lot:	13
Community District:	209
Census Tract 2020:	2009000

VERIZON NEW YORK INC (NY90549) (Continued) **S100144737**

Census Block 2020:	20090001004
Census Tract 2010:	90
Census Block 2010:	1004
School District:	08
City Council District:	18
Fire Company:	L047
Police Precinct:	43
Health Center District:	26
Health Area:	3100
Sanitation District Boro:	2
Sanitation District Number:	09
Sanitation Subsection:	4D
Zoning District 1:	M2-1: Manufacturing Districts
Zoning District 2:	Not reported
Zoning District 3:	Not reported
Zoning District 4:	Not reported
Commercial Overlay 1:	Not reported
Commercial Overlay 2:	Not reported
Special Purpose District 1:	Not reported
Special Purpose District 2:	Not reported
Special Purpose District 3:	Not reported
Limited Height District:	Not reported
Spill Boundary Indicator:	N
Building Class:	G1: GARAGES AND GASOLINE STATIONS - All Parking Garages
Land Use Category:	Parking Facilities
Number Of Easements:	0
Lot Area:	32785
Total Building Floor Area:	4200
Commercial Floor Area:	4200
Residential Floor Area:	0
Office Floor Area:	0
Retail Floor Area:	0
Garage Floor Area:	4200
Storage Floor Area:	0
Factory Floor Area:	0
Other Floor Area:	0
Total Building Floor Area Source Code:	2
Number Of Buildings:	1
Number Of Floors:	1.0000000
Residential Units:	0
Total Units:	1
Lot Frontage:	195.0000000
Lot Depth:	166.0000000
Building Frontage:	60.0000000
Building Depth:	61.5800000
Extension Code:	N
Proximity Code:	1
Irregular Lot Code:	Y
Lot Type:	3
Basement Type/Grade:	0
Assessed Land Value:	619200.00000
Assessed Total Value:	987300.00000
Exempt Total Value:	0.00000
Year Built:	1931
Year Altered 1:	1994
Year Altered 2:	2004
Historic District Name:	Not reported

VERIZON NEW YORK INC (NY90549) (Continued) **S100144737**

Landmark Status:	Not reported
Built Floor Area Ratio:	0.13000000000
Maximum Allowable Residential Far:	0.00000000000
Maximum Allowable Commercial Far:	2.00000000000
Maximum Allowable Community Facility Far:	0.00000000000
Boro Code:	2
Borough, Tax Block and Lot:	2035420013.00000000
Condominium Number:	Not reported
Census Tract 2:	0090
X Coordinate:	1027650
Y Coordinate:	237194
Zoning Map #:	7a
Zoning Map Code:	Not reported
Sanborn Map #:	219 066
Tax Map #:	21404
E-designation Number:	Not reported
Apportionment BBL:	Not reported
Apportionment Date:	Not reported
Pluto ??? Dtm Base Map Indicator:	1
2007 Flood Insurance Rate Map Indicator:	1
2015 Preliminary Flood Insurance Rate Map Indicator:	1
Version Number:	24v1.1
Changed By DCP:	Not reported

G39 **500 ZEREGA AVENUE** **UST FINDER RELEASE** **1029066249**
NW **500 ZEREGA AVENUE** **N/A**
1/4-1/2 **BRONX, NY 0**
0.317 mi.
1672 ft. **Site 2 of 2 in cluster G**

Relative:
Lower

Actual:
4 ft.

UST FINDER RELEASE:

Object ID:	260230
Facility ID:	NY220114
Lust ID:	NY8703906
Name:	500 ZEREGA AVENUE
Address:	500 ZEREGA AVENUE
City,State,Zip:	BRONX, NY 0
Address Match Type:	Not reported
Reported Date:	1987/08/11 16:00:00+00
Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	5364
Domestic Wells within 1500ft:	0
Land Use:	Developed, High Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	2
NFA Letter 1:	Not reported

500 ZEREGA AVENUE (Continued) **1029066249**

NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	State
X Coord:	-73.84433
Y Coord:	40.8166800000001
Latitude:	40.8166799999999
Longitude:	-73.8443299999999

40
South
1/4-1/2
0.333 mi.
1757 ft.

NYCDOS FERRY POINT PARK
44 BEAVER ST - 6TH FLOOR
BRONX, NY 10465

NY SWF/LF **S105912812**
N/A

Relative:
Higher

Actual:
32 ft.

SWF/LF:

Name:	NYCDOS FERRY POINT PARK
Address:	44 BEAVER ST - 6TH FLOOR
City,State,Zip:	BRONX, NY 10465
Flag:	INACTIVE
Region Code:	2
Phone Number:	2128378183
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Robert Lange
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Composting - yard waste - permit
Activity Number:	[03Y25]
Active:	No
East Coordinate:	598300
North Coordinate:	4517900
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

41 WNW 1/4-1/2 0.338 mi. 1784 ft. | **RAILROAD MAINTENANCE CORP.**
432 ZEREGA AVENUE
BRONX, NY 10473

NY SWF/LF **S105912814**
NY NYC LAND USE **N/A**

Relative: Lower

Actual: 10 ft.

SWF/LF:

Name:	RAILROAD MAINTENANCE CORP.
Address:	432 ZEREGA AVENUE
City,State,Zip:	BRONX, NY 10473
Flag:	INACTIVE
Region Code:	2
Phone Number:	2128922000
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	M.GRASSO
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Other
Activity Number:	[03Z19]
Active:	No
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6007-00096
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

NYC LAND USE:

Name:	Not reported
Address:	432 ZEREGA AVENUE
City,State,Zip:	BRONX, NY 10473
Latitude:	40.8163143
Longitude:	-73.8438024
Type Of Ownership Code:	Not reported
Owner Name:	TWO GIRLS & A BOY, .
Borough:	BX
Tax Block:	3513
Tax Lot:	22
Community District:	209
Census Tract 2020:	2009000
Census Block 2020:	20090001004
Census Tract 2010:	90
Census Block 2010:	1004
School District:	08
City Council District:	18

RAILROAD MAINTENANCE CORP. (Continued) **S105912814**

Fire Company:	L047
Police Precinct:	43
Health Center District:	26
Health Area:	3100
Sanitation District Boro:	2
Sanitation District Number:	09
Sanitation Subsection:	4C
Zoning District 1:	M1-1: Manufacturing Districts
Zoning District 2:	Not reported
Zoning District 3:	Not reported
Zoning District 4:	Not reported
Commercial Overlay 1:	Not reported
Commercial Overlay 2:	Not reported
Special Purpose District 1:	Not reported
Special Purpose District 2:	Not reported
Special Purpose District 3:	Not reported
Limited Height District:	Not reported
Spill Boundary Indicator:	N
Building Class:	S9: RESIDENCE - MULTIPLE USE - Single or Multiple Dwelling with Stores or Offices
Land Use Category:	Mixed Residential & Commercial Buildings
Number Of Easements:	0
Lot Area:	31050
Total Building Floor Area:	6680
Commercial Floor Area:	2934
Residential Floor Area:	3746
Office Floor Area:	2934
Retail Floor Area:	0
Garage Floor Area:	0
Storage Floor Area:	0
Factory Floor Area:	0
Other Floor Area:	0
Total Building Floor Area Source Code:	2
Number Of Buildings:	1
Number Of Floors:	3.0000000
Residential Units:	2
Total Units:	4
Lot Frontage:	75.3300000
Lot Depth:	354.0800000
Building Frontage:	50.0000000
Building Depth:	36.0000000
Extension Code:	Not reported
Proximity Code:	1
Irregular Lot Code:	Y
Lot Type:	5
Basement Type/Grade:	0
Assessed Land Value:	245700.00000
Assessed Total Value:	362250.00000
Exempt Total Value:	0.00000
Year Built:	1931
Year Altered 1:	0
Year Altered 2:	0
Historic District Name:	Not reported
Landmark Status:	Not reported
Built Floor Area Ratio:	0.22000000000
Maximum Allowable Residential Far:	0.00000000000
Maximum Allowable Commercial Far:	1.00000000000

RAILROAD MAINTENANCE CORP. (Continued) **S105912814**

Maximum Allowable Community Facility Far:	2.40000000000
Boro Code:	2
Borough, Tax Block and Lot:	2035130022.00000000
Condominium Number:	Not reported
Census Tract 2:	0090
X Coordinate:	1027485
Y Coordinate:	236721
Zoning Map #:	7a
Zoning Map Code:	Not reported
Sanborn Map #:	219 066
Tax Map #:	21403
E-designation Number:	Not reported
Apportionment BBL:	Not reported
Apportionment Date:	Not reported
Pluto ??? Dtm Base Map Indicator:	1
2007 Flood Insurance Rate Map Indicator:	1
2015 Preliminary Flood Insurance Rate Map Indicator:	1
Version Number:	24v1.1
Changed By DCP:	Not reported

42
NNW
1/4-1/2
0.361 mi.
1906 ft.

BLOCK 3579, LOT 1
BLOCK 3579, LOT 1
BRONX, NY 10473

NY VCP **S113922170**
N/A

Relative:
Lower

Actual:
7 ft.

VCP:

Name:	BLOCK 3579, LOT 1
Address:	BLOCK 3579, LOT 1
City,State,Zip:	BRONX, NY 10473
Program Type:	VCP
Site Code:	58877
HW Code:	V00321
Site Class:	N
SWIS:	301
Region:	2
Town:	New York City
Acres:	Not reported
Date Record Added:	11/30/2000
Date Record Updated:	07/14/2004
Updated By:	VCPTRANS
Site Description:	Site was denied entry to VCP due to lack of contamination.
Env Problem:	Not reported
Health Problem:	Not reported
Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported
Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	6
Sub Type:	ZZZ

BLOCK 3579, LOT 1 (Continued) **S113922170**

Owner Name:	Not reported
Owner Company:	Ice Cream Partners, USA, LLC
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	ZZ
Owner Country:	United States of America
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

43
NW
1/4-1/2
0.375 mi.
1982 ft.

RANDALL AVE AND ZEREGA AVE/WESTCHESTER CREEK **NY SWF/LF** **S126023660**
HAVMEYER AVE, RANDELL AVE, ZEREGA AVE, CAESAR PLACE **NY ILI** **N/A**
BRONX, NY

Relative:
Higher

Actual:
19 ft.

SWF/LF:

Name:	RANDALL AVE AND ZEREGA AVE/WESTCHESTER CREEK
Address:	HAVMEYER AVE, RANDELL AVE, ZEREGA AVE, CAESAR PLACE
City,State,Zip:	BRONX, NY
Flag:	INACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Not reported
Activity Number:	Not reported
Active:	Not reported
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	2: Fair; Perimeter unclear
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

RANDALL AVE AND ZEREGA AVE/WESTCHESTER CREEK (Continued) **S126023660**

ILI:

Name:	RANDALL AVE AND ZEREGA AVE/WESTCHESTER CREEK
Address:	HAVMEYER AVE, RANDELL AVE, ZEREGA AVE, CAESAR PLACE
City,State,Zip:	BRONX, NY
Latitude:	40.818432
Longitude:	-73.843908
Region:	2
SWID:	Not reported
NY Inactive List:	Not reported
Inactive Reg Number:	Not reported
Alternative Facility Names:	Not reported
Removed:	Not reported
Why Removed:	Not reported
Location Accuracy:	2: Fair; Perimeter unclear
Date Of Last Inspection:	19-Jul-18
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Authorization:	Not reported
Number:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
Start Date:	Not reported
Stop Date:	Not reported
Landfill Type:	Not reported

44
NNW
1/4-1/2
0.391 mi.
2063 ft.

EASTERN ECOLOGY COMPOSTING SITE WESTCHESTER CREEK **NY SWF/LF** **S126022885**
665-637 ZEREGA AVE **NY ILI** **N/A**
BRONX, NY

Relative:
Lower

Actual:
13 ft.

SWF/LF:

Name:	EASTERN ECOLOGY COMPOSTING SITE WESTCHESTER CREEK BETWEEN SEWARD AVE & RANDALL AVE
Address:	665-637 ZEREGA AVE
City,State,Zip:	BRONX, NY
Flag:	INACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported

EASTERN ECOLOGY COMPOSTING SITE WESTCHESTER CREEK BETWEEN SE (Continued) **S126022885**

Contact Phone:	Not reported
Activity Desc:	Not reported
Activity Number:	Not reported
Active:	Not reported
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

ILI:

Name:	EASTERN ECOLOGY COMPOSTING SITE WESTCHESTER CREEK BETWEEN SEWARD A RANDALL AVE
Address:	665-637 ZEREGA AVE
City,State,Zip:	BRONX, NY
Latitude:	40.820539
Longitude:	-73.840808
Region:	2
SWID:	Not reported
NY Inactive List:	Not reported
Inactive Reg Number:	Not reported
Alternative Facility Names:	Not reported
Removed:	Not reported
Why Removed:	Not reported
Location Accuracy:	Not reported
Date Of Last Inspection:	19-Jul-18
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Authorization:	Not reported
Number:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
Start Date:	Not reported
Stop Date:	Not reported
Landfill Type:	Not reported

45 North 1/4-1/2 0.408 mi. 2155 ft.

EARTH BANK COMPANY INC.
748 BRUSH AVENUE
BRONX, NY 10465

NY SWF/LF **S105841684**
NY NYC LAND USE **N/A**

Relative: Higher

Actual: 16 ft.

SWF/LF:

Name:	EARTH BANK COMPANY INC.
Address:	748 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Flag:	INACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	RALPH DIDONATO
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[03T16]
Active:	No
East Coordinate:	598005
North Coordinate:	4519723
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	- 1-
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

NYC LAND USE:

Name:	Not reported
Address:	748 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Latitude:	40.8221437
Longitude:	-73.8375092
Type Of Ownership Code:	Not reported
Owner Name:	VALAD, JAVAD
Borough:	BX
Tax Block:	5559
Tax Lot:	83
Community District:	210
Census Tract 2020:	2009000
Census Block 2020:	20090002017
Census Tract 2010:	90
Census Block 2010:	2012
School District:	08
City Council District:	13

EARTH BANK COMPANY INC. (Continued) **S105841684**

Fire Company:	E072
Police Precinct:	45
Health Center District:	26
Health Area:	3100
Sanitation District Boro:	2
Sanitation District Number:	10
Sanitation Subsection:	3D
Zoning District 1:	R4A: Residential Districts
Zoning District 2:	Not reported
Zoning District 3:	Not reported
Zoning District 4:	Not reported
Commercial Overlay 1:	Not reported
Commercial Overlay 2:	Not reported
Special Purpose District 1:	Not reported
Special Purpose District 2:	Not reported
Special Purpose District 3:	Not reported
Limited Height District:	Not reported
Spill Boundary Indicator:	N
Building Class:	B1: TWO FAMILY DWELLINGS - Brick
Land Use Category:	One & Two Family Buildings
Number Of Easements:	0
Lot Area:	2692
Total Building Floor Area:	2300
Commercial Floor Area:	0
Residential Floor Area:	2300
Office Floor Area:	0
Retail Floor Area:	0
Garage Floor Area:	0
Storage Floor Area:	0
Factory Floor Area:	0
Other Floor Area:	0
Total Building Floor Area Source Code:	2
Number Of Buildings:	1
Number Of Floors:	2.0000000
Residential Units:	2
Total Units:	2
Lot Frontage:	25.0000000
Lot Depth:	108.6300000
Building Frontage:	25.0000000
Building Depth:	46.0000000
Extension Code:	G
Proximity Code:	3
Irregular Lot Code:	Y
Lot Type:	5
Basement Type/Grade:	2
Assessed Land Value:	8340.00000
Assessed Total Value:	55560.00000
Exempt Total Value:	0.00000
Year Built:	2005
Year Altered 1:	0
Year Altered 2:	0
Historic District Name:	Not reported
Landmark Status:	Not reported
Built Floor Area Ratio:	0.85000000000
Maximum Allowable Residential Far:	0.75000000000
Maximum Allowable Commercial Far:	0.00000000000
Maximum Allowable Community Facility Far:	2.00000000000

EARTH BANK COMPANY INC. (Continued) **S105841684**

Boro Code:	2
Borough, Tax Block and Lot:	2055590083.00000000
Condominium Number:	Not reported
Census Tract 2:	0090
X Coordinate:	1029223
Y Coordinate:	238848
Zoning Map #:	7a
Zoning Map Code:	Not reported
Sanborn Map #:	221 039
Tax Map #:	21807
E-designation Number:	Not reported
Apportionment BBL:	2055590081.00000000
Apportionment Date:	02/26/2007
Pluto ??? Dtm Base Map Indicator:	1
2007 Flood Insurance Rate Map Indicator:	Not reported
2015 Preliminary Flood Insurance Rate Map Indicator:	Not reported
Version Number:	24v1.1
Changed By DCP:	Not reported

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46 **AAA THROGGS NECK** **FUDS** **1024899209**
East **N/A**
1/2-1 **NEW YORK, NY**
0.806 mi.
4255 ft.

Relative:
Higher

Actual:
17 ft.

FUDS:

EPA Region:	02
Installation ID:	NY29799F111000
Congressional District Number:	14
Name:	AAA THROGGS NECK
FUDS Number:	C02NY0568
City:	NEW YORK
State:	NY
County:	BRONX
Object ID:	5630
USACE Division:	NAD
USACE District:	New England District (NAE)
Status:	Properties without projects
Current Owner:	PRIV: PRIVATE PRIVATE RESIDENCES
EMS Map Link:	https://fudsportal.usace.army.mil/ems/inventory/map?id=56674
Eligibility:	Eligible
Has Projects:	No
NPL Status:	Not reported
Project Required:	No
Feature Description:	The site containing 4.07 acres lease and permit was obtained by US Government in early 1952 for an AAA location. Between August 1952 and February 1954 all the leases and permits ware cancelled and the properties reverted back to the original owners. Currently the ownership of the site is subdivided between 24 owners of one and two family housing units.
Latitude:	40.81416667
Longitude:	-73.82

Count: 5 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BRONX	S113922040	BLOCK 5541, LOT 225 (BRUSH AVENUE	BRUSH AVENUE	10465	NY VCP
BRONX	S126022979	FORT SCHUYLER PARK AREA	LONG ISLAND SOUND, PENNYFIELD		NY SWF/LF, NY ILI
BRONX	S126023254	LB NORTHEAST	ZEREGA AVENUE		NY SWF/LF, NY ILI
BRONX	S105684653	CE - ZEREGA AVE. STATION	ZEREGA AVE. BETWEEN BLACKROCK	10462	NY VCP, NY MGP
BRONX	S121933888	CE - ZEREGA AVE. STATION	ZEREGA AVE. BETWEEN BLACKROCK	10462	NY SHWS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/25/2024
Date Data Arrived at EDR: 03/26/2024
Date Made Active in Reports: 06/24/2024
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/25/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/22/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/22/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/14/2024
Date Data Arrived at EDR: 02/16/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 48

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/17/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2024
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/13/2024
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/13/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/17/2024
Number of Days to Update: 90

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/17/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

SHWS: Inactive Hazardous Waste Disposal Sites in New York State
Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Annually

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: Facility Register
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/25/2024
Date Data Arrived at EDR: 03/27/2024
Date Made Active in Reports: 06/18/2024
Number of Days to Update: 83

Source: Department of Environmental Conservation
Telephone: 518-402-8678
Last EDR Contact: 06/21/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/04/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

LTANKS: Spills Information Database
Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 05/06/2024
Date Data Arrived at EDR: 05/06/2024
Date Made Active in Reports: 05/09/2024
Number of Days to Update: 3

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 05/06/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

HIST LTANKS: Listing of Leaking Storage Tanks

A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 03/15/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/17/2024
Number of Days to Update: 90

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

UST: Petroleum Bulk Storage (PBS) Database

Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 03/19/2024
Date Data Arrived at EDR: 03/20/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 06/18/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: No Update Planned

CBS UST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 10/24/2005
Next Scheduled EDR Contact: 01/23/2006
Data Release Frequency: No Update Planned

MOSF UST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF: Major Oil Storage Facility Site Listing

These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 03/19/2024
Date Data Arrived at EDR: 03/20/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 06/18/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

CBS: Chemical Bulk Storage Site Listing
These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 03/19/2024
Date Data Arrived at EDR: 03/20/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 06/18/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

AST: Petroleum Bulk Storage
Registered Aboveground Storage Tanks.

Date of Government Version: 03/19/2024
Date Data Arrived at EDR: 03/20/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 06/18/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: No Update Planned

CBS AST: Chemical Bulk Storage Database
Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF AST: Major Oil Storage Facilities Database
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/17/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

TANKS: Storage Tank Faciliy Listing

This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

Date of Government Version: 03/19/2024
Date Data Arrived at EDR: 03/20/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-9543
Last EDR Contact: 06/18/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

State and tribal institutional control / engineering control registries

ENV RES DECL: Environmental Restrictive Declarations

The Environmental Restrictive Declarations (ERD) listed were recorded in connection with a zoning action against the noted Tax Blocks and Tax Lots, or portion thereof, and are available in the property records on file at the Office of the City Register for Bronx, Kings, New York and Queens counties or at the Richmond County Clerk's office. They contain environmental requirements with respect to hazardous materials, air quality and/or noise in accordance with Section 11-15 of this Resolution.

Date of Government Version: 03/11/2024
Date Data Arrived at EDR: 03/14/2024
Date Made Active in Reports: 06/05/2024
Number of Days to Update: 83

Source: New York City Department of City Planning
Telephone: 212-720-3300
Last EDR Contact: 06/13/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Varies

RES DECL: Restrictive Declarations Listing

A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/07/2024
Date Made Active in Reports: 03/11/2024
Number of Days to Update: 4

Source: NYC Department of City Planning
Telephone: 212-720-3401
Last EDR Contact: 06/13/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Varies

ENG CONTROLS: Registry of Engineering Controls

Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Quarterly

INST CONTROL: Registry of Institutional Controls

Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Quarterly

Lists of state and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Agreements

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9711
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Semi-Annually

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/14/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Varies

VCP NYC: Voluntary Cleanup Program Listing NYC
New York City voluntary cleanup program sites.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/06/2024
Date Made Active in Reports: 05/30/2024
Number of Days to Update: 85

Source: New York City Office of Environmental Protection
Telephone: 212-788-8841
Last EDR Contact: 06/05/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Brownfields Site List
A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9764
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Semi-Annually

ERP: Environmental Restoration Program Listing
In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a $200 million Environmental Restoration or Brownfields Fund as part of the $1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/11/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/12/2024	Telephone: 202-566-2777
Date Made Active in Reports: 05/10/2024	Last EDR Contact: 06/11/2024
Number of Days to Update: 59	Next Scheduled EDR Contact: 09/23/2024
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Registered Recycling Facility List

A listing of recycling facilities.

Date of Government Version: 03/25/2024	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 03/27/2024	Telephone: 518-402-8678
Date Made Active in Reports: 06/18/2024	Last EDR Contact: 06/21/2024
Number of Days to Update: 83	Next Scheduled EDR Contact: 10/07/2024
	Data Release Frequency: Quarterly

SWTIRE: Registered Waste Tire Storage & Facility List

A listing of facilities registered to accept waste tires.

Date of Government Version: 02/27/2018	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 04/06/2018	Telephone: 518-402-8694
Date Made Active in Reports: 06/08/2018	Last EDR Contact: 05/31/2024
Number of Days to Update: 63	Next Scheduled EDR Contact: 09/16/2024
	Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 07/22/2024
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/04/2024
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: No Update Planned

DEL SHWS: Delisted Registry Sites

A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

HIST UST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

HIST AST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Spill Liens Information
Lien information from the Oil Spill Fund.

Date of Government Version: 04/19/2024
Date Data Arrived at EDR: 04/19/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 68

Source: Office of the State Comptroller
Telephone: 518-474-9034
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Quarterly

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/14/2024
Date Data Arrived at EDR: 06/17/2024
Date Made Active in Reports: 06/24/2024
Number of Days to Update: 7

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/17/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

SPILLS: Spills Information Database
Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 05/06/2024
Date Data Arrived at EDR: 05/06/2024
Date Made Active in Reports: 05/09/2024
Number of Days to Update: 3

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 05/06/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

HIST SPILLS: SPILLS Database
This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/14/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/12/2013
Number of Days to Update: 40

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 11/02/2010
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/30/2024
Date Data Arrived at EDR: 02/13/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 51

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/14/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/18/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/17/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA Watch List

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 07/25/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/13/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 11/13/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 86

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/16/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/11/2024
Date Data Arrived at EDR: 07/11/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 1

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/01/2024
Date Data Arrived at EDR: 04/17/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2023
Date Data Arrived at EDR: 04/04/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 66

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 01/02/2024
Date Data Arrived at EDR: 01/16/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 57

Source: Nuclear Regulatory Commission
Telephone: 301-415-0717
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 11/27/2023
Date Made Active in Reports: 02/22/2024
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 06/21/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2024
Date Data Arrived at EDR: 04/19/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 68

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/16/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/24/2024
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 04/01/2024
Date Data Arrived at EDR: 04/04/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 99

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Quarterly

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 01/07/2022
Date Data Arrived at EDR: 02/24/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 82

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/22/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing
Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/23/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines
An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/18/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 79

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/13/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 98

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/22/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/09/2024
Date Data Arrived at EDR: 02/27/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 87

Source: EPA
Telephone: (212) 637-3000
Last EDR Contact: 05/29/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 09/06/2023
Date Data Arrived at EDR: 09/13/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 89

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/08/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/17/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 06/23/2024
Date Data Arrived at EDR: 06/28/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/28/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/12/2024
Date Data Arrived at EDR: 02/13/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 51

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/14/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS PROJECT: NORTHEASTERN UNIVERSITY PFAS PROJECT

The PFAS Contamination Site Tracker records qualitative and quantitative data from each site in a chart, specifically examining discovery, contamination levels, government response, litigation, health impacts, media coverage, and community characteristics. All data presented in the chart were extracted from government websites, such as state health departments or the Environmental Protection Agency, and news articles.

Date of Government Version: 05/19/2023
Date Data Arrived at EDR: 04/05/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 62

Source: Social Science Environmental Health Research Institute
Telephone: N/A
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS ECHO FIRE TRAIN: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS PT 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/10/2017
Number of Days to Update: 63

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/27/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: No Update Planned

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 06/27/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data
The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 04/14/2024
Date Data Arrived at EDR: 04/16/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-564-4700
Last EDR Contact: 07/16/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

UST FINDER: UST Finder Database
EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 106

Source: Environmental Protection Agency
Telephone: 202-564-0394
Last EDR Contact: 05/08/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

UST FINDER RELEASE: UST Finder Releases Database
US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/31/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 79

Source: Environmental Protecton Agency
Telephone: 202-564-0394
Last EDR Contact: 05/08/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Semi-Annually

E MANIFEST: Hazardous Waste Electronic Manifest System
EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

Date of Government Version: 07/24/2023
Date Data Arrived at EDR: 04/18/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 833-501-6826
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Varies

PFAS 3: PFAS Environmental Site Remediation List
A list of records included in the Environmental Remediation database whose material is listed as Perfluorooctanoic Acid or Perfluorooctane Sulfonic Acid.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9759
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

PFAS 2: New York State Inactive Landfill Initiative

A list of landfills that were investigated and the analytical results for PFOA and PFOS for those landfills. These data represent the landfills from the ILI database that were investigated.

Date of Government Version: 12/12/2022
Date Data Arrived at EDR: 08/10/2023
Date Made Active in Reports: 10/25/2023
Number of Days to Update: 76

Source: Department of Environmental Conservation
Telephone: 518-402-9662
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

DEC surveyed select businesses, fire departments, fire training centers, bulk storage facilities, airports, and Department of Defense (DoD) facilities. The responses to the survey have helped to determine if these entities used or stored materials containing PFOA/PFOS including AFFF and dispersants used in Teflon coating operations. The results of this survey will be updated periodically as additional responses are received..

Date of Government Version: 01/16/2019
Date Data Arrived at EDR: 05/08/2019
Date Made Active in Reports: 06/24/2019
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 518-402-9020
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

AIRS: Air Emissions Data

Point source emissions inventory data.

Date of Government Version: 01/12/2024
Date Data Arrived at EDR: 01/24/2024
Date Made Active in Reports: 04/11/2024
Number of Days to Update: 78

Source: Department of Environmental Conservation
Telephone: 518-402-8452
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Annually

COAL ASH: Coal Ash Disposal Site Listing

A listing of coal ash disposal site locations.

Date of Government Version: 03/26/2024
Date Data Arrived at EDR: 03/27/2024
Date Made Active in Reports: 06/21/2024
Number of Days to Update: 86

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 06/21/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

DRYCLEANERS: Registered Drycleaners

A listing of all registered drycleaning facilities.

Date of Government Version: 03/06/2024
Date Data Arrived at EDR: 03/08/2024
Date Made Active in Reports: 05/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8403
Last EDR Contact: 05/31/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Annually

E DESIGNATION: E DESIGNATION SITE LISTING

The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 03/05/2024
Date Data Arrived at EDR: 03/13/2024
Date Made Active in Reports: 06/05/2024
Number of Days to Update: 84

Source: New York City Department of City Planning
Telephone: 718-595-6658
Last EDR Contact: 06/12/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Semi-Annually

FIN ASSURANCE 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 03/27/2024
Date Data Arrived at EDR: 03/28/2024
Date Made Active in Reports: 06/18/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 06/21/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

FIN ASSURANCE 2: Financial Assurance Information Listing

A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 03/07/2024
Date Data Arrived at EDR: 03/14/2024
Date Made Active in Reports: 03/20/2024
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-8712
Last EDR Contact: 05/31/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

HSWDS: Hazardous Substance Waste Disposal Site Inventory

The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 01/01/2003
Date Data Arrived at EDR: 10/20/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9564
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: No Update Planned

NYC LEAD: Lead-based Paint Testing Results

The results of the inspections for all classrooms serving students under six in applicable buildings. Identifies all classrooms, whether there was observation of peeling paint, and if there was, standard response protocol was followed.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 01/31/2024
Date Made Active in Reports: 04/22/2024
Number of Days to Update: 82

Source: New York City Department of Education
Telephone: 212-374-5141
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

NYC LEAD 2: Recent Lead Paint Violations

Pursuant to New York City?s Housing Maintenance Code, the Department of Housing Preservation and Development (HPD) issues violations against conditions in rental dwelling units that have been verified to violate the New York City Housing Maintenance Code (HMC) or the New York State Multiple Dwelling Law (MDL). Violations are issued when an inspection verifies that a violation of the HMC or MDL exists. It is closed when the violation is corrected, as observed/verified by HPD or as certified by the landlord.

Date of Government Version: 04/29/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 07/25/2024
Number of Days to Update: 85

Source: New York City Department of Housing Preservation & Development
Telephone: 212-863-8200
Last EDR Contact: 05/01/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/25/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

SPDES: State Pollutant Discharge Elimination System

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 01/12/2024
Date Data Arrived at EDR: 02/13/2024
Date Made Active in Reports: 05/02/2024
Number of Days to Update: 79

Source: Department of Environmental Conservation
Telephone: 518-402-8233
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: No Update Planned

VAPOR REOPENED: Vapor Intrusion Legacy Site List

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 02/08/2022
Date Made Active in Reports: 05/06/2022
Number of Days to Update: 87

Source: Department of Environmenal Conservation
Telephone: 518-402-9814
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

UIC: Underground Injection Control Wells

A listing of enhanced oil recovery underground injection wells.

Date of Government Version: 02/26/2024
Date Data Arrived at EDR: 02/28/2024
Date Made Active in Reports: 05/21/2024
Number of Days to Update: 83

Source: Department of Environmental Conservation
Telephone: 518-402-8056
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Quarterly

COOLING TOWERS: Registered Cooling Towers

This data includes the location of cooling towers registered with New York State. The data is self-reported by owners/property managers of cooling towers in service in New York State. In August 2015, the New York State Department of Health released emergency regulations requiring the owners of cooling towers to register them with New York State.

Date of Government Version: 04/02/2024
Date Data Arrived at EDR: 04/10/2024
Date Made Active in Reports: 07/09/2024
Number of Days to Update: 90

Source: Department of Health
Telephone: 518-402-7650
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Varies

ILI: New York State Inactive Landfill Initiative
A solid waste site priority list of mitigation and remedial activities to address sites causing, or substantially contributing to, impairments of drinking water quality. Inactive solid waste disposal sites, primarily landfills, and their potential impact on New York?s drinking water resources from site-related contaminants, with a focus on emerging contaminants.

Date of Government Version: 01/30/2024
Date Data Arrived at EDR: 02/02/2024
Date Made Active in Reports: 04/19/2024
Number of Days to Update: 77

Source: Department of Environmental Conservation
Telephone: 518-402-8671
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

NYC LAND USE: New York City Land Use Information
Land use colors

Date of Government Version: 05/03/2024
Date Data Arrived at EDR: 06/12/2024
Date Made Active in Reports: 06/28/2024
Number of Days to Update: 16

Source: New York City Department of City Planning
Telephone: 212-720-3300
Last EDR Contact: 06/12/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Varies

MGP: Manufactured Gas Plants Listing
From the late 1800's to the mid 1900's, hundreds of manufactured gas plants across New York State supplied homes and industry with fuel for heating, cooking, and lighting. Today, the New York State DEC is overseeing the investigation and cleanup of contamination left behind from these plants.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 80

Source: Department of Environmental Conservation
Telephone: 518-402-9662
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

NYC OER: OER Cleanup Sites Listing
Properties remediated under OER's oversight, both in the E-Designation program and the NYC Voluntary Cleanup Program. Includes sites completed and in progress.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/06/2024
Date Made Active in Reports: 05/29/2024
Number of Days to Update: 84

Source: Office of Environmental Remediation
Telephone: 212-788-8841
Last EDR Contact: 06/05/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COUNTY RECORDS

CORTLAND COUNTY:

AST - CORTLAND: Cortland County Storage Tank Listing
A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/16/2019
Number of Days to Update: 57

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

UST - CORTLAND: Cortland County Storage Tank Listing
A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/16/2019
Number of Days to Update: 57

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

NASSAU COUNTY:

AST - NASSAU: Registered Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 11/27/2023
Date Data Arrived at EDR: 11/28/2023
Date Made Active in Reports: 02/06/2024
Number of Days to Update: 70

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: No Update Planned

AST NCFM: Storage Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

TANKS NASSAU: Registered Tank Database in Nassau County
A listing of facilities in Nassau County with storage tanks.

Date of Government Version: 11/27/2023
Date Data Arrived at EDR: 11/28/2023
Date Made Active in Reports: 02/06/2024
Number of Days to Update: 70

Source: Nassau County Department of Health
Telephone: 516-227-9691
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: No Update Planned

UST - NASSAU: Registered Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 11/27/2023
Date Data Arrived at EDR: 11/28/2023
Date Made Active in Reports: 02/06/2024
Number of Days to Update: 70

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: No Update Planned

UST NCFM: Storage Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

ROCKLAND COUNTY:

AST - ROCKLAND: Petroleum Bulk Storage Database
A listing of aboveground storage tank sites located in Rockland County. Rockland County?s Petroleum Bulk Storage (PBS) program is no longer in service. All related operations/duties are now wholly overseen by the New York State Dept. of Environmental Conservation (NYSDEC).

Date of Government Version: 02/02/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 189

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: No Update Planned

UST - ROCKLAND: Petroleum Bulk Storage Database
A listing of underground storage tank sites located in Rockland County. Rockland County?s Petroleum Bulk Storage (PBS) program is no longer in service. All related operations/duties are now wholly overseen by the New York State Dept. of Environmental Conservation (NYSDEC).

Date of Government Version: 02/02/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 189

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: No Update Planned

SUFFOLK COUNTY:

AST - SUFFOLK: Storage Tank Database
A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 06/28/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 02/07/2019
Number of Days to Update: 63

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: No Update Planned

TANKS SUFFOLK: Storage Tank Database
This county is not included in the state?s database. These are facilities that have no tank information in the storage tank database.

Date of Government Version: 06/28/2018
Date Data Arrived at EDR: 02/05/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 31

Source: Department of Health Services
Telephone: 631-854-2516
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

UST - SUFFOLK: Storage Tank Database
A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 06/28/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 02/07/2019
Number of Days to Update: 63

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: No Update Planned

WESTCHESTER COUNTY:

AST - WESTCHESTER: Listing of Storage Tanks
A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 01/29/2024
Date Data Arrived at EDR: 02/08/2024
Date Made Active in Reports: 03/06/2024
Number of Days to Update: 27

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Semi-Annually

UST - WESTCHESTER: Listing of Storage Tanks
A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 01/29/2024
Date Data Arrived at EDR: 02/08/2024
Date Made Active in Reports: 03/06/2024
Number of Days to Update: 27

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Semi-Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/06/2024
Date Made Active in Reports: 04/25/2024
Number of Days to Update: 79

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/03/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/13/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 10/28/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/09/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 07/03/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Day Care Providers
Source: Department of Health
Telephone: 212-676-2444

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

PROPOSED BALLYS CASINO - RING ROAD
450 HUTCHINSON RIVER PARKWAY
BRONX, NY 10465

TARGET PROPERTY COORDINATES

Latitude (North):	40.813693 - 40˚ 48’ 49.29’’
Longitude (West):	73.835803 - 73˚ 50’ 8.89’’
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	598189.6
UTM Y (Meters):	4518516.0
Elevation:	16 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	14115946 FLUSHING, NY
Version Date:	2019

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES

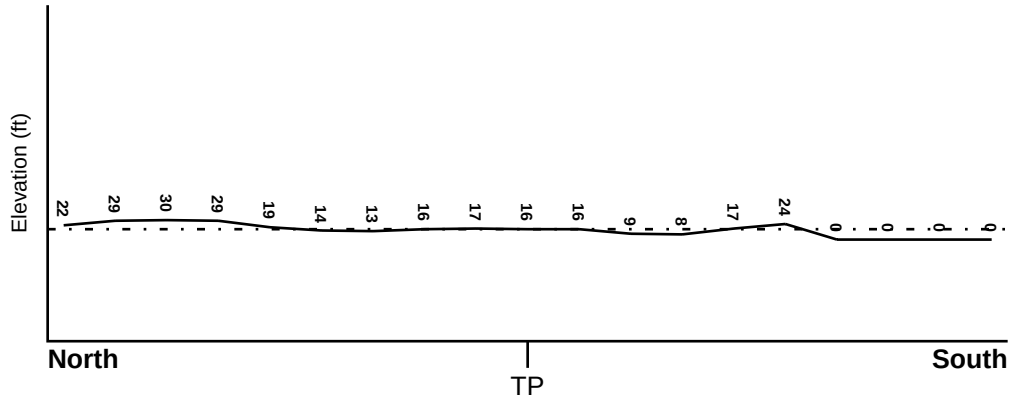

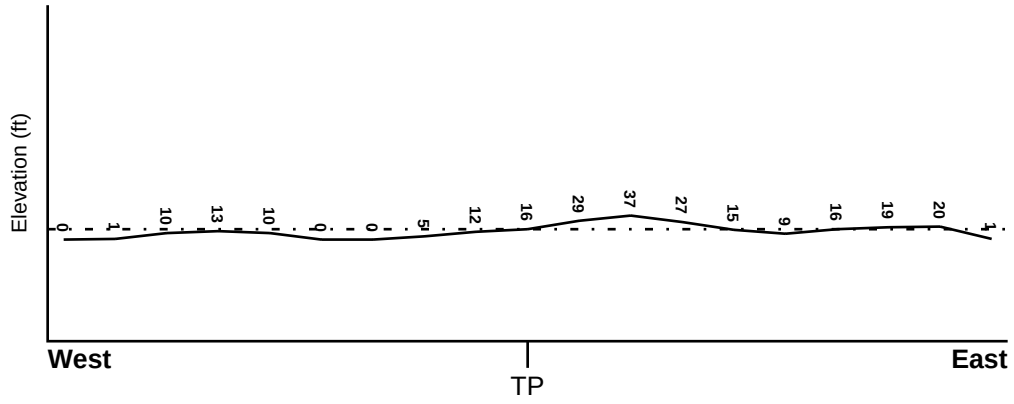

Target Property Elevation: 16 ft.

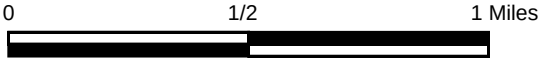

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
3604970104F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
3604970103F	FEMA FIRM Flood data
3604970111F	FEMA FIRM Flood data
3604970112F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
FLUSHING	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Ordovician
Series:	Middle Ordovician (Mohawkian)
Code:	O2 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	URBAN LAND
Soil Surface Texture:	variable
Hydrologic Group:	Not reported
Soil Drainage Class:	Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 10 inches
Depth to Bedrock Max:	> 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: fine sandy loam

Surficial Soil Types: fine sandy loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: unweathered bedrock
gravelly - fine sandy loam
stratified
fine sandy loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000833436	1/4 - 1/2 Mile SSE
2	USGS40000833386	1/4 - 1/2 Mile SSE
3	USGS40000833327	1/2 - 1 Mile SSE
4	USGS40000833595	1/2 - 1 Mile East
5	USGS40000833850	1/2 - 1 Mile NNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 7720624.2s

County Boundary
Major Roads
Contour Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data
Oil, gas or related wells

N

SITE NAME:	Proposed Ballys Casino - Ring Road	CLIENT:	Langan Engineering, Inc.
ADDRESS:	450 Hutchinson River Parkway Bronx NY 10465	CONTACT:	Kaitlyn Gioia
		INQUIRY #:	7720624.2s
LAT/LONG:	40.813693 / 73.835803	DATE:	July 29, 2024 5:00 pm

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Map ID Direction Distance Elevation	Database	EDR ID Number
1 **SSE** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000833436**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	B 39. 1		
Type:	Well: Test hole not completed as a well		
Description:	Not Reported	HUC:	02030102
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	92	Well Hole Depth Units:	ft

2 **SSE** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000833386**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	B 1. 1	Type:	Well
Description:	Not Reported	HUC:	02030102
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

3 **SSE** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000833327**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	B 2. 1	Type:	Well
Description:	Not Reported	HUC:	02030102
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

4 **East** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000833595**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	B 3. 1	Type:	Well
Description:	Not Reported	HUC:	02030102

Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

---

5
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000833850**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	B 9	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	140	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for BRONX County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for BRONX COUNTY, NY

Number of sites tested: 31

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.670 pCi/L	96%	4%	0%
Basement	1.110 pCi/L	42%	58%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

New York Public Water Wells
Source: New York Department of Health
Telephone: 518-458-6731

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Source: Department of Environmental Conservation
Telephone: 518-402-8072
These files contain records, in the database, of wells that have been drilled.

RADON

State Database: NY Radon
Source: Department of Health
Telephone: 518-402-7556
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Appendix F Historical Resources

Proposed Ballys Casino - Ring Road

450 Hutchinson River Parkway

Bronx, NY 10465

Inquiry Number: 7720624.3

July 31, 2024

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

07/31/24

Site Name:	Client Name:
Proposed Ballys Casino - Ring	Langan Engineering, Inc.
450 Hutchinson River Parkway	360 W. 31st Street
Bronx, NY 10465	New York, NY 10001
EDR Inquiry # 7720624.3	Contact: Kaitlyn Gioia

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Langan Engineering, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # F7D1-4C79-AF79

PO # 170773001

Project Prpsd Bally s Casino - Ring Rd

Maps Provided:

2007	1996	1981	1898
2006	1995	1978	
2005	1993	1977	
2004	1992	1967	
2003	1991	1950	
2002	1988	1930	
2001	1986	1919	
1998	1983	1908	

Sanborn® Library search results

Certification #: F7D1-4C79-AF79

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2007 Source Sheets

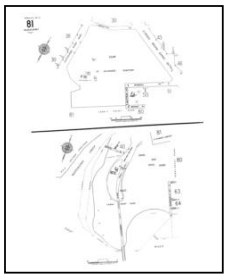

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2007

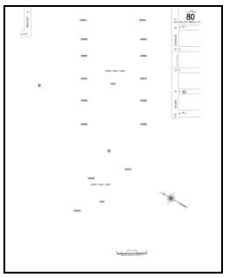

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2007

2006 Source Sheets

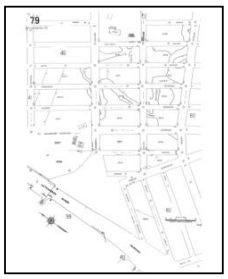

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2006

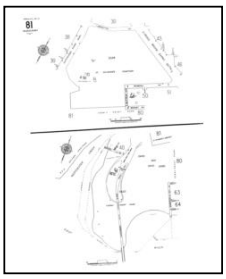

Volume 21, Sheet 81
2006

2005 Source Sheets

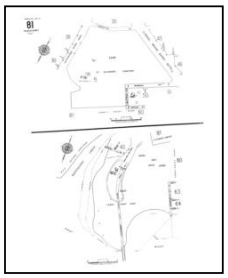

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2005

2004 Source Sheets

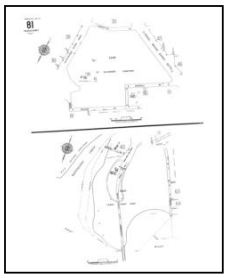

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2004

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2003 Source Sheets

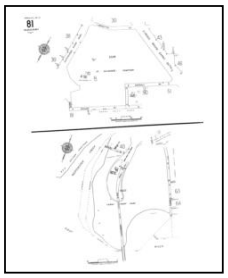

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2003

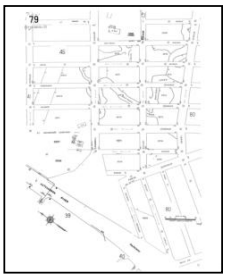

Volume 21, Sheet 79
2003

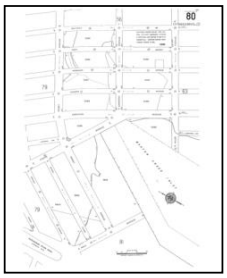

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2003

2002 Source Sheets

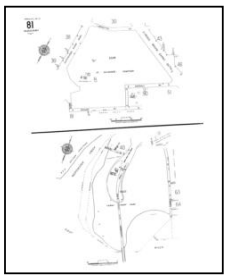

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2002

2001 Source Sheets

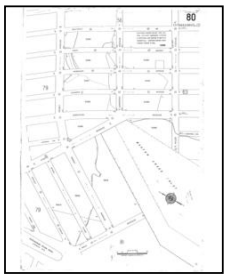

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2001

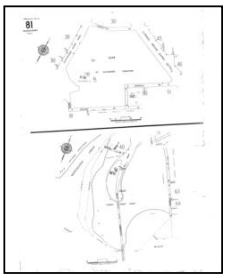

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2001

1998 Source Sheets

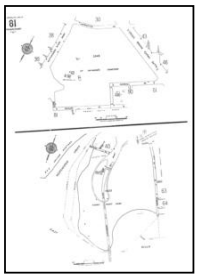

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1998

Sanborn Sheet Key

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1996 Source Sheets

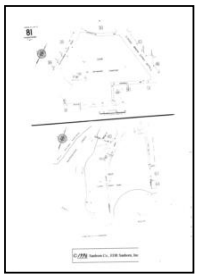

Volume 21, Sheet 81
1996

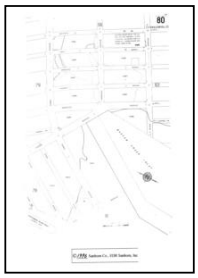

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1996

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1996

1995 Source Sheets

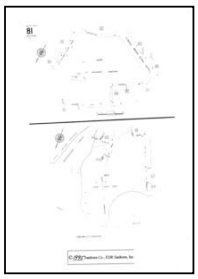

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1995

1993 Source Sheets

Volume 21, Sheet 81
1993

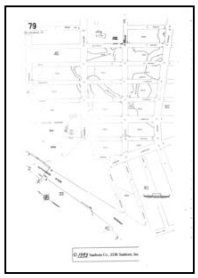

Volume 21, Sheet 79
1993

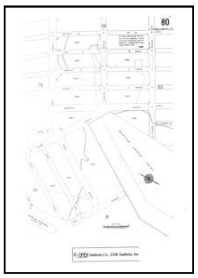

Volume 21, Sheet 80
1993

1992 Source Sheets

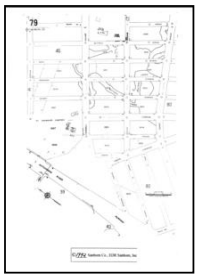

Volume 21, Sheet 79
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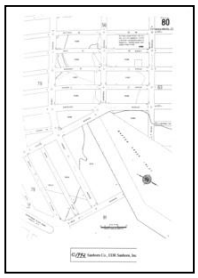

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1992

Volume 21, Sheet 81
1992

Sanborn Sheet Key

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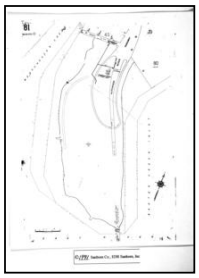

Volume 21, Sheet 81
1991

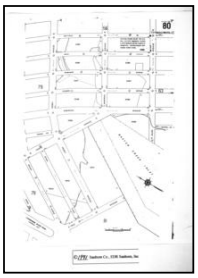

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1991

1988 Source Sheets

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1988

1986 Source Sheets

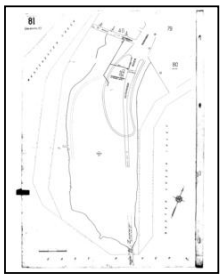

Volume 21, Sheet 81
1986

1983 Source Sheets

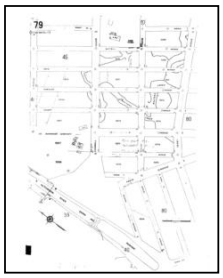

Volume 21, Sheet 79
1983

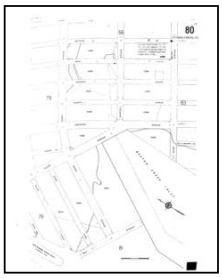

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1983

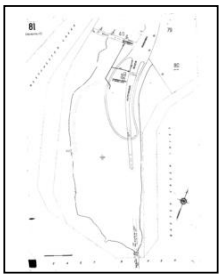

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1983

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1981 Source Sheets

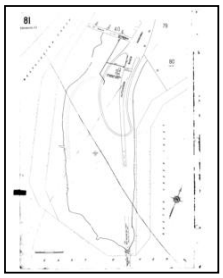

Volume 21, Sheet 81
1981

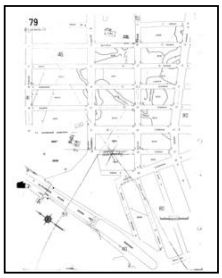

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1981

1978 Source Sheets

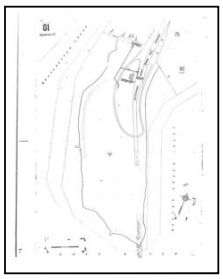

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1978

1977 Source Sheets

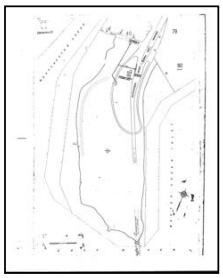

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1977

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1977

1967 Source Sheets

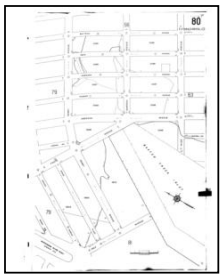

Volume 21, Sheet 80
1967

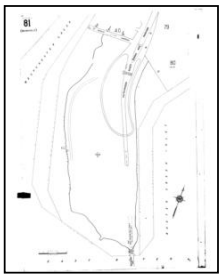

Volume 21, Sheet 81
1967

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

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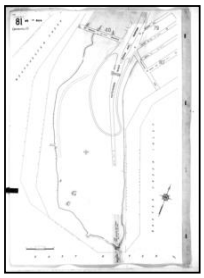

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1950

1930 Source Sheets

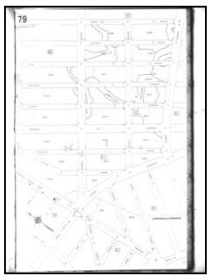

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1930

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1930

1919 Source Sheets

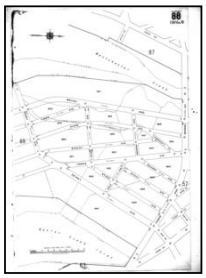

Volume 17, Sheet 88
1919

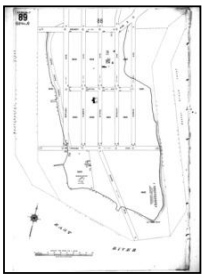

Volume 17, Sheet 89
1919

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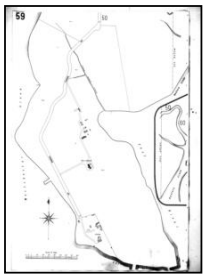

Volume A, Sheet 59
1908

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1898 Source Sheets

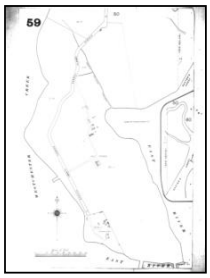

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1898

Certified Sanborn® Map

2007

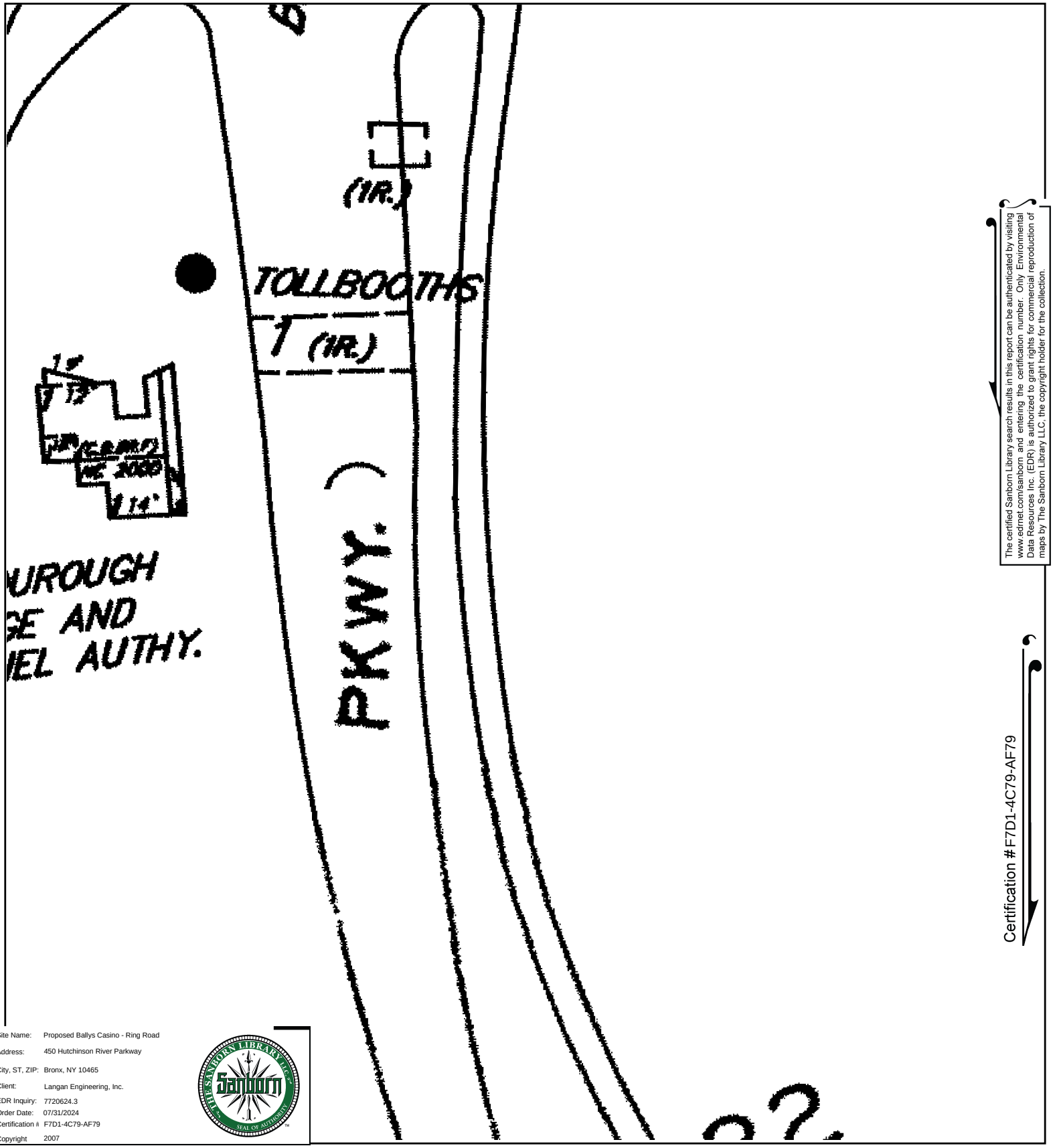

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Certification #F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	2007

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0 Feet 150 300 600

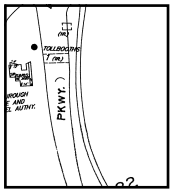

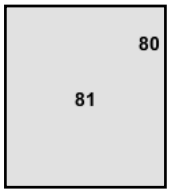

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N

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2006

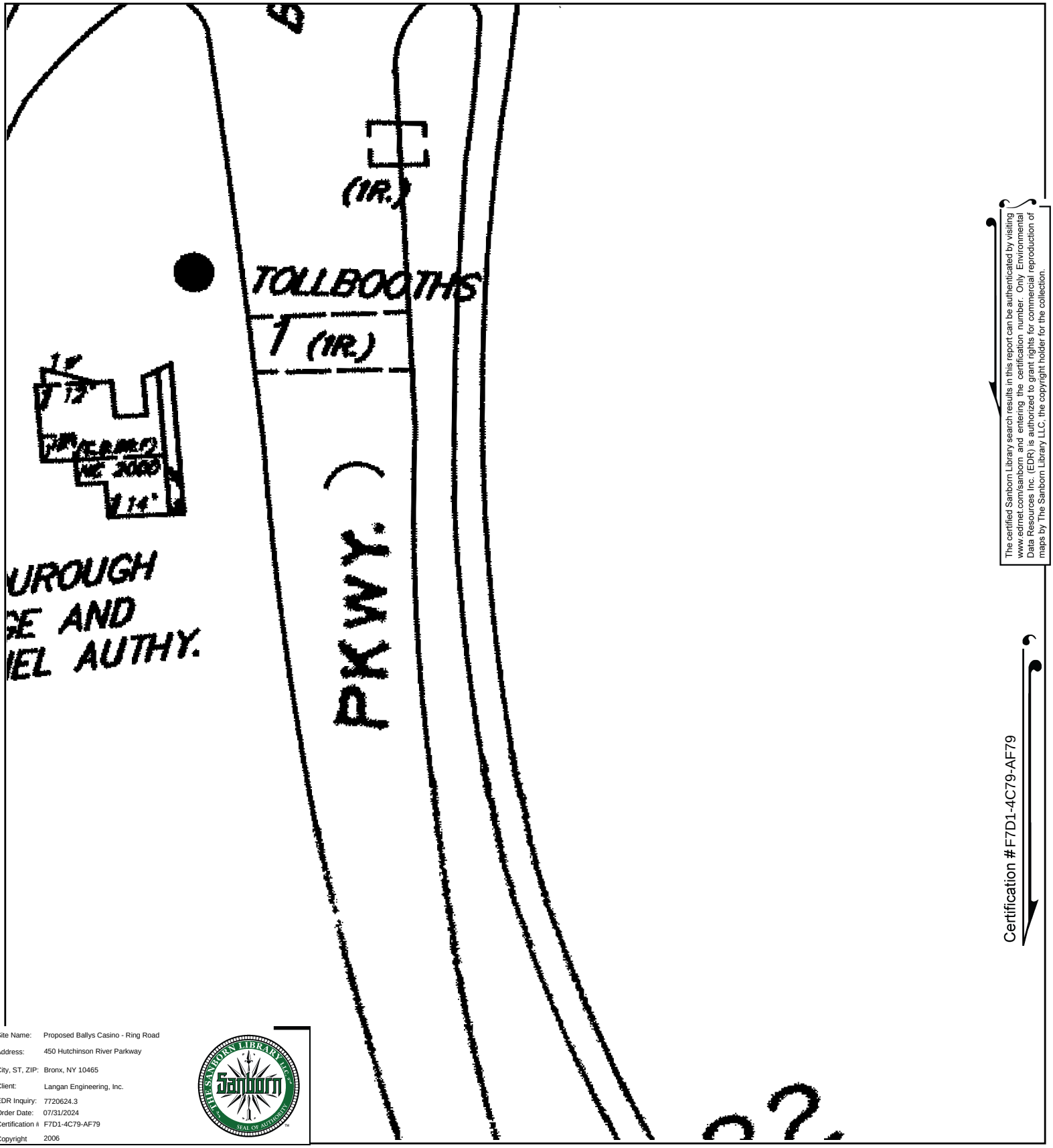

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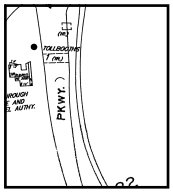

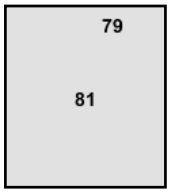

Volume 21, Sheet 81
Volume 21, Sheet 79

N

Certified Sanborn® Map

2005

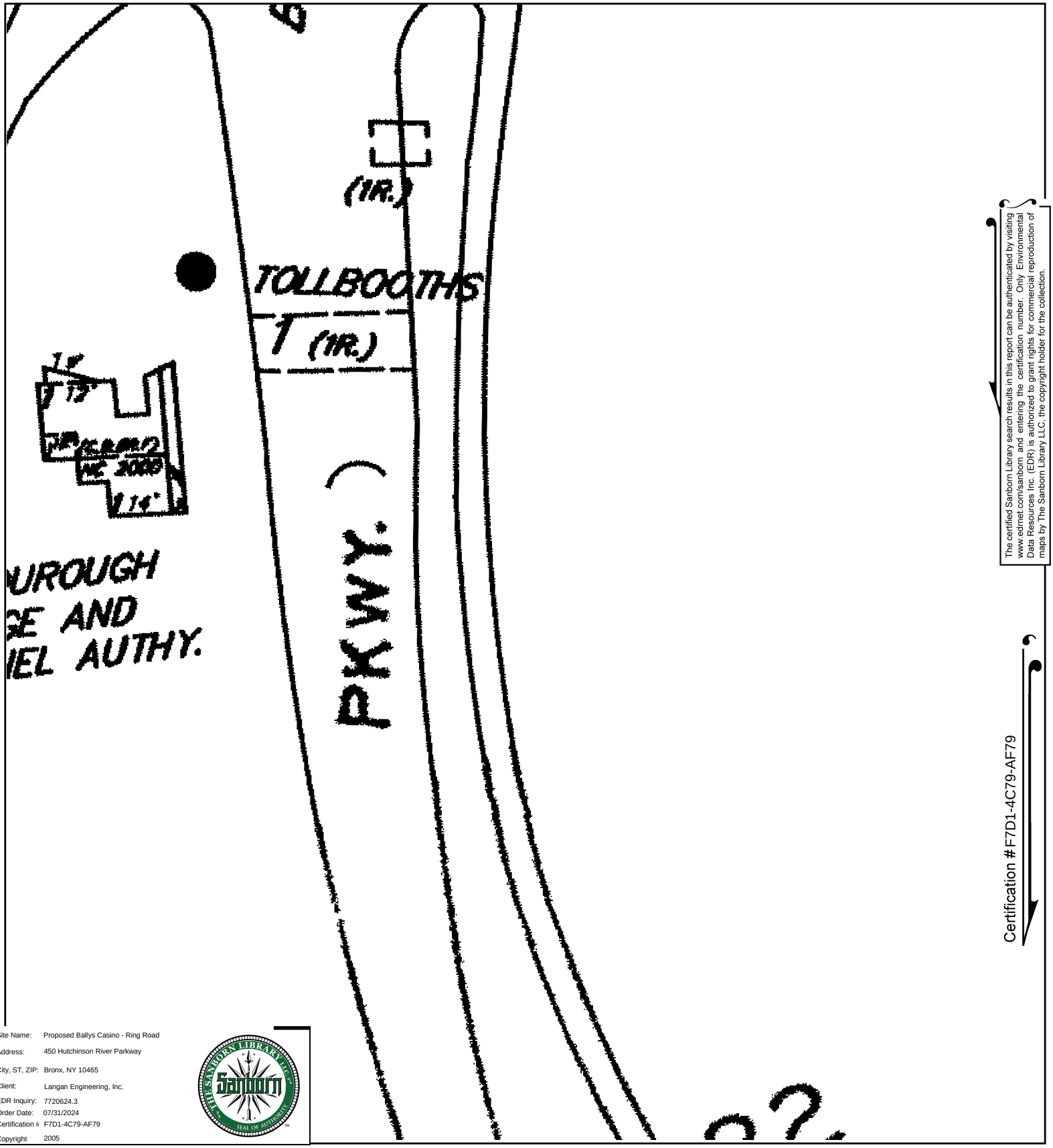

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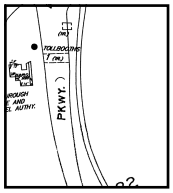

81

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N

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2004

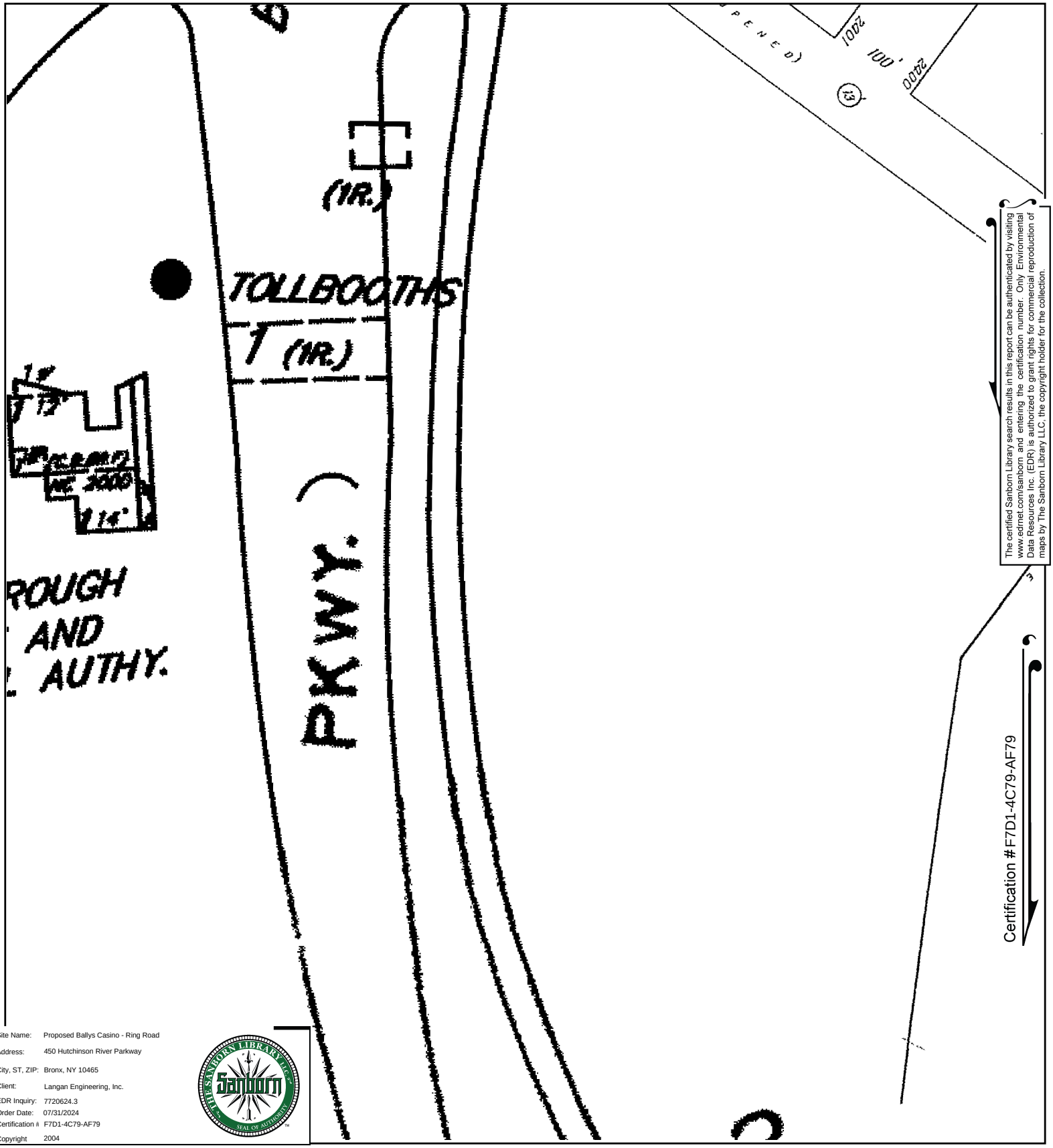

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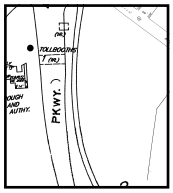

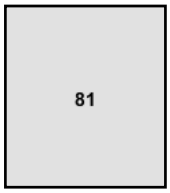

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N

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2003

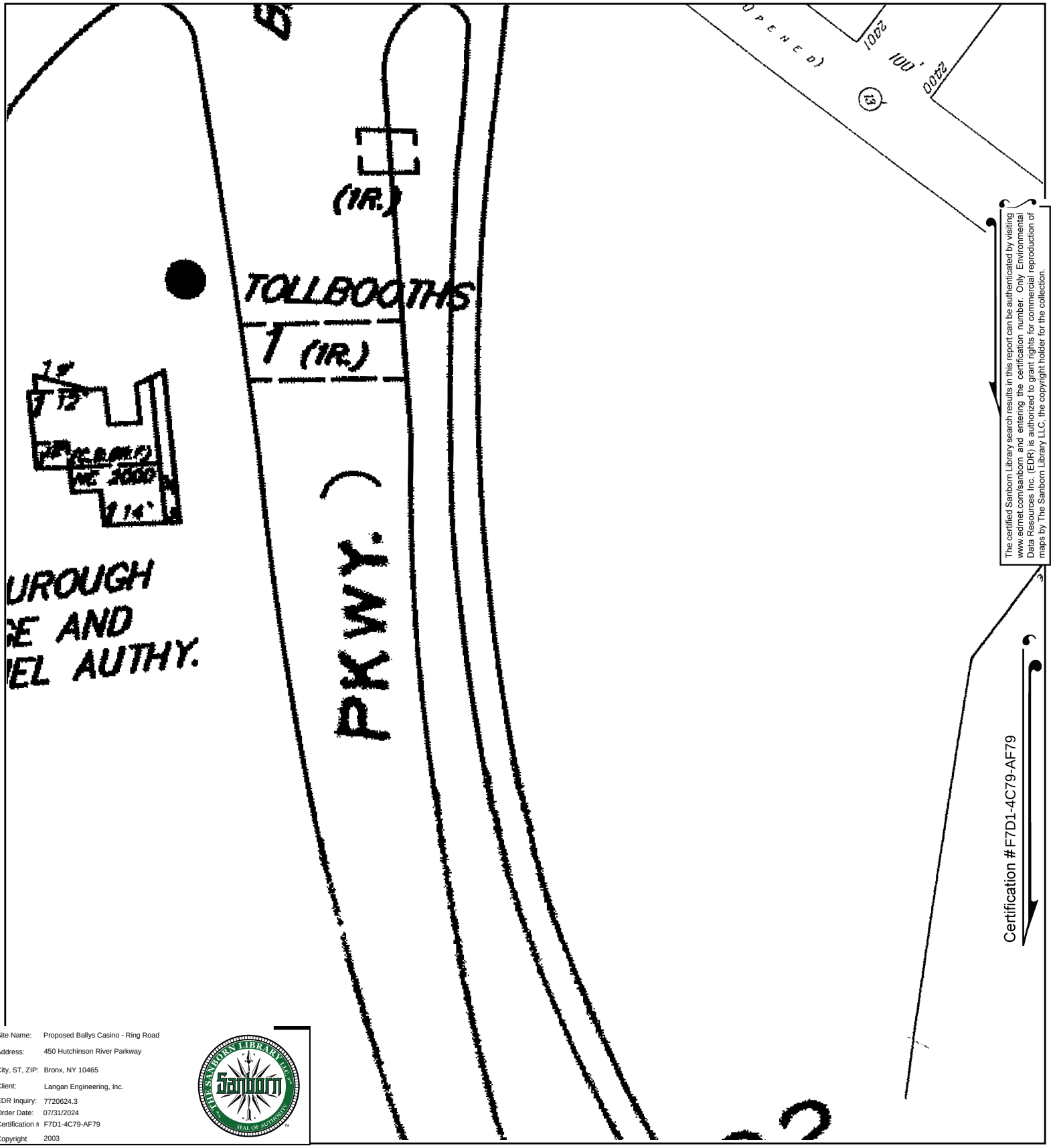

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Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	2003

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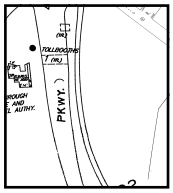

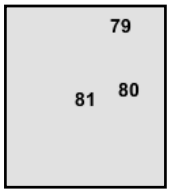

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N

Certified Sanborn® Map

2002

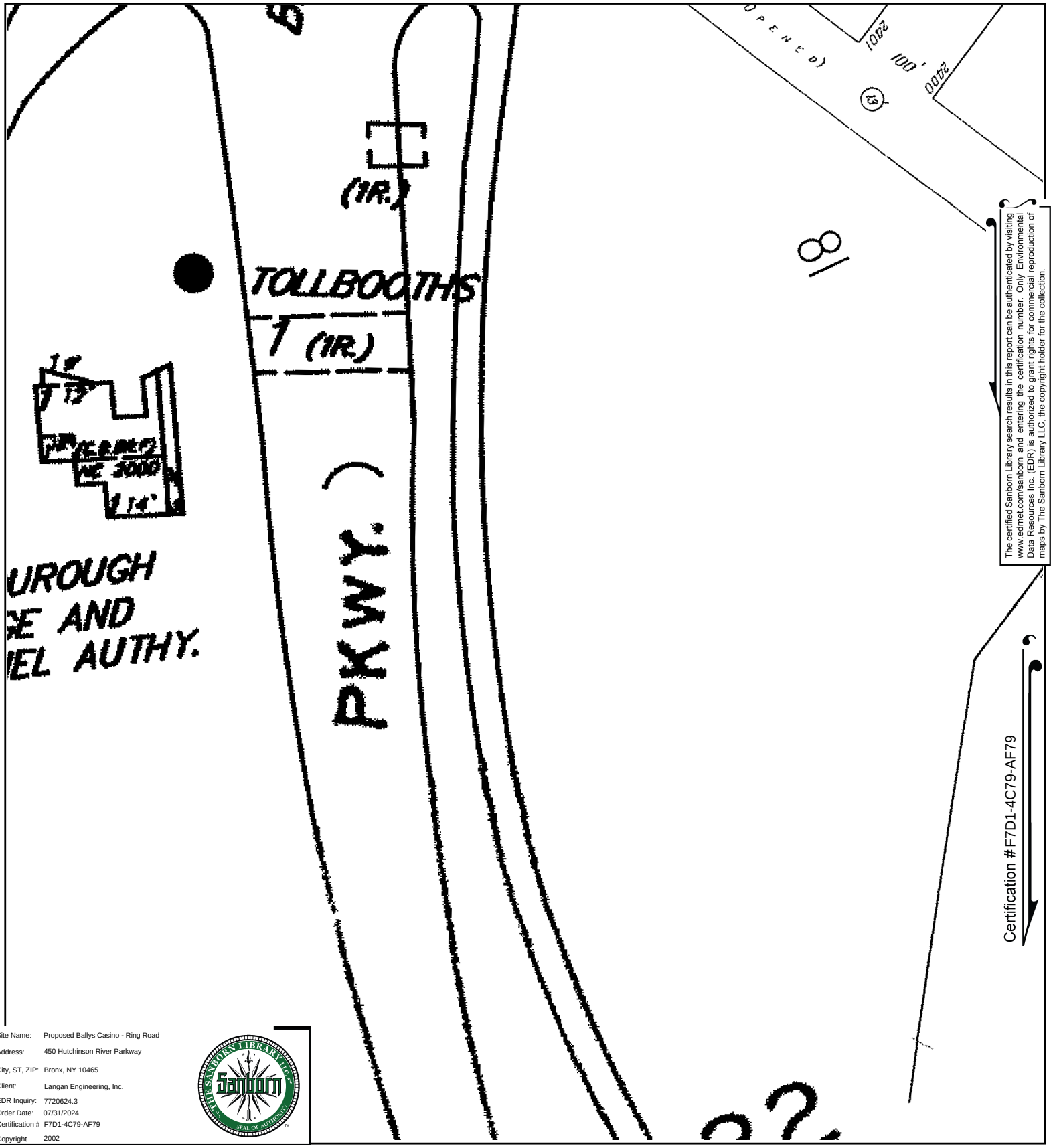

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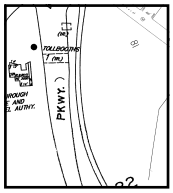

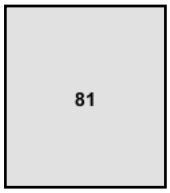

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2001

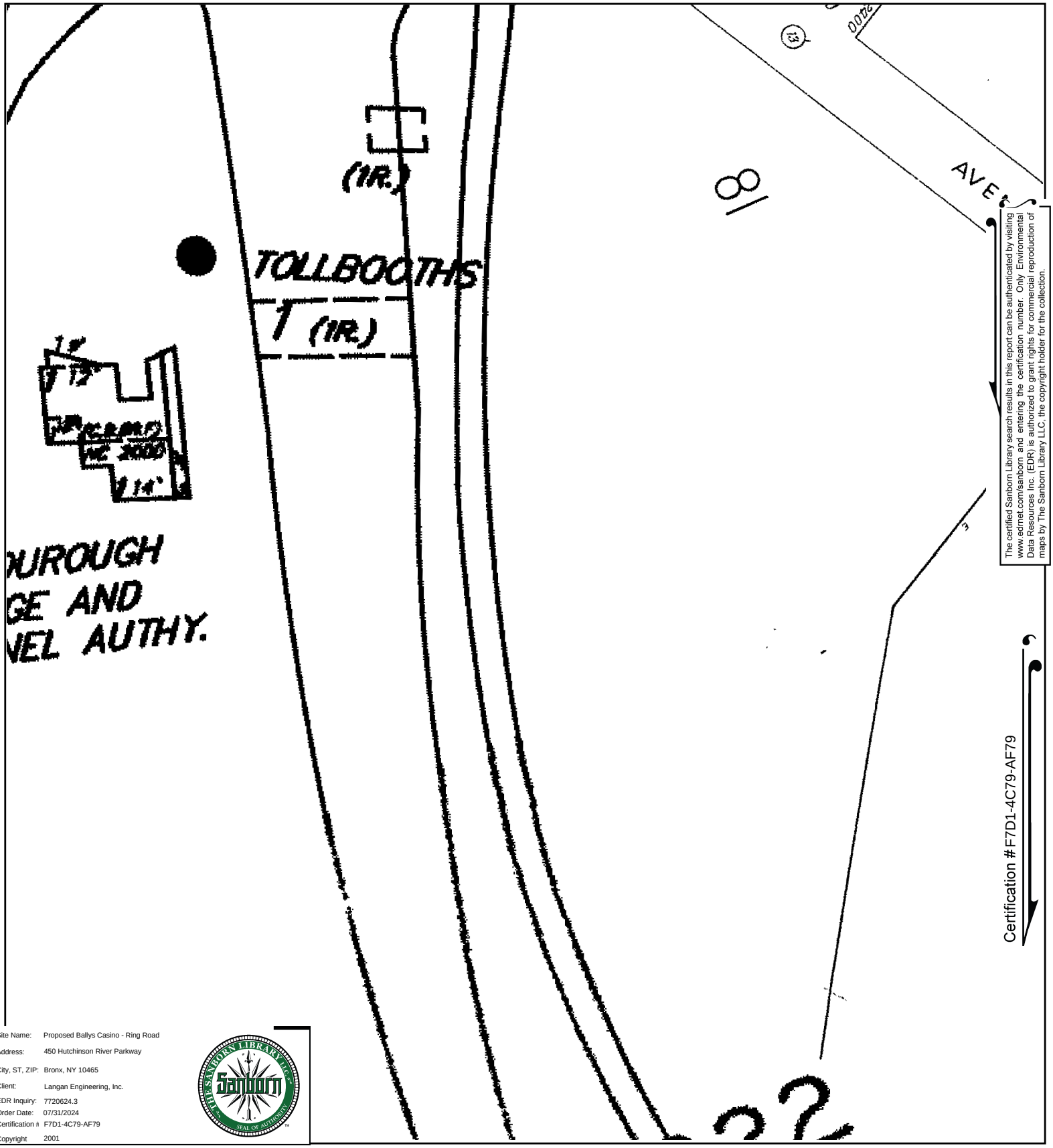

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Certification #	F7D1-4C79-AF79
Copyright	2001

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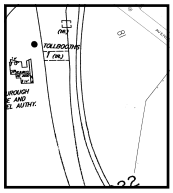

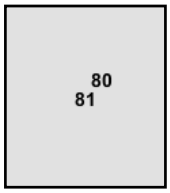

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1998

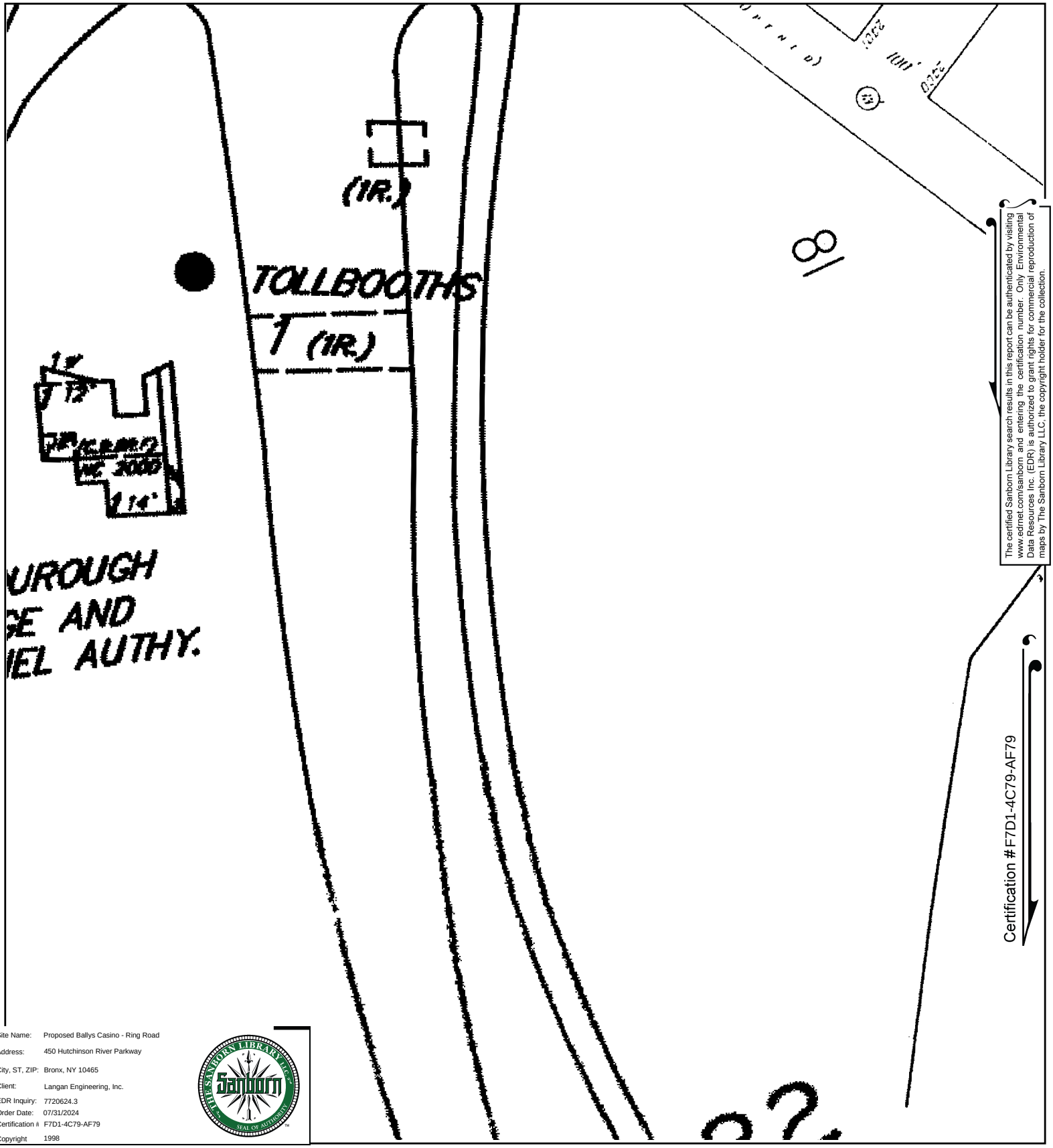

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Copyright	1998

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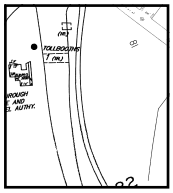

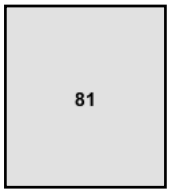

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1996

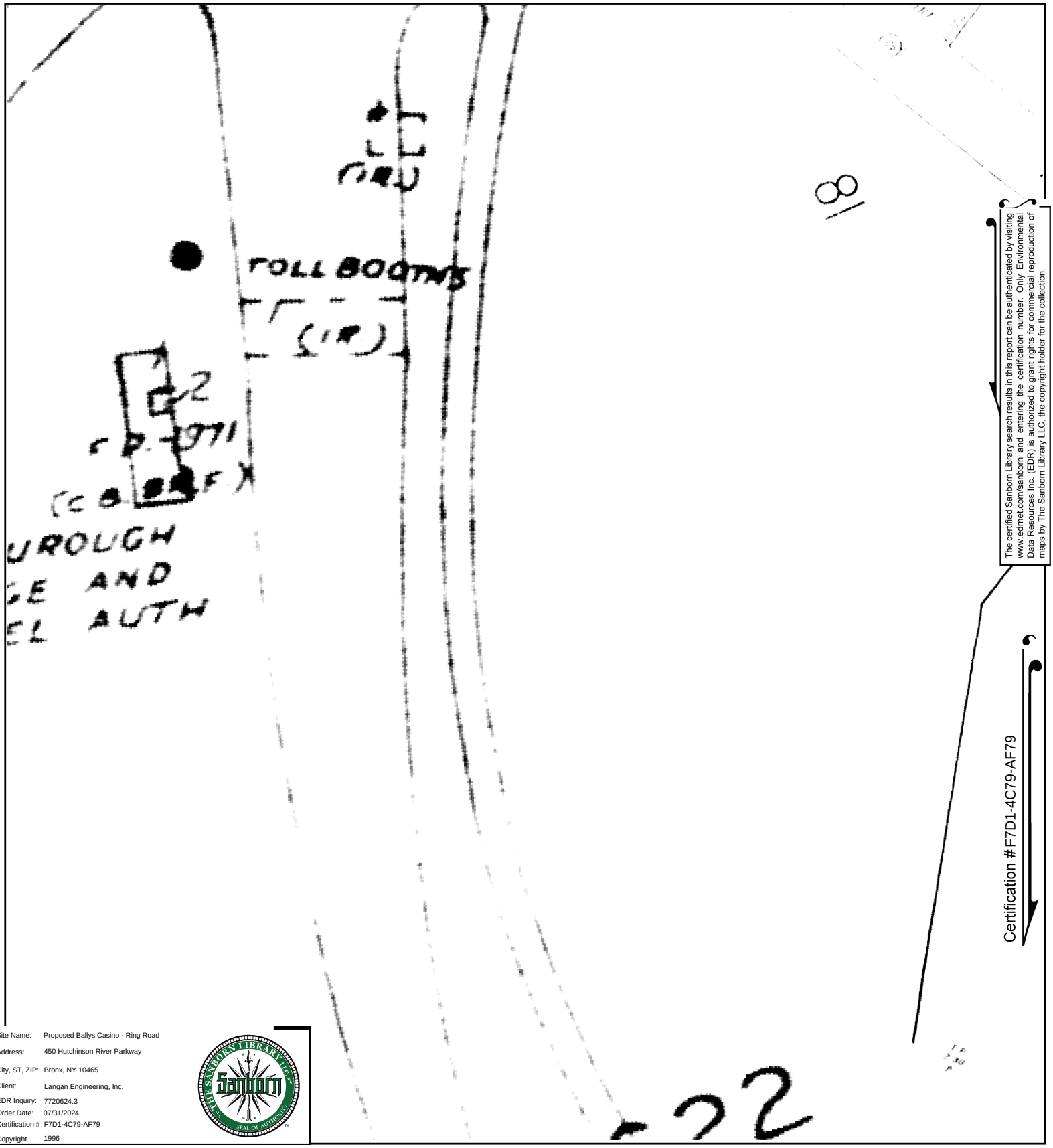

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Certification #	F7D1-4C79-AF79
Copyright	1996

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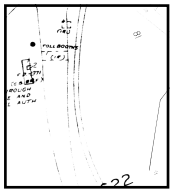

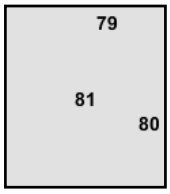

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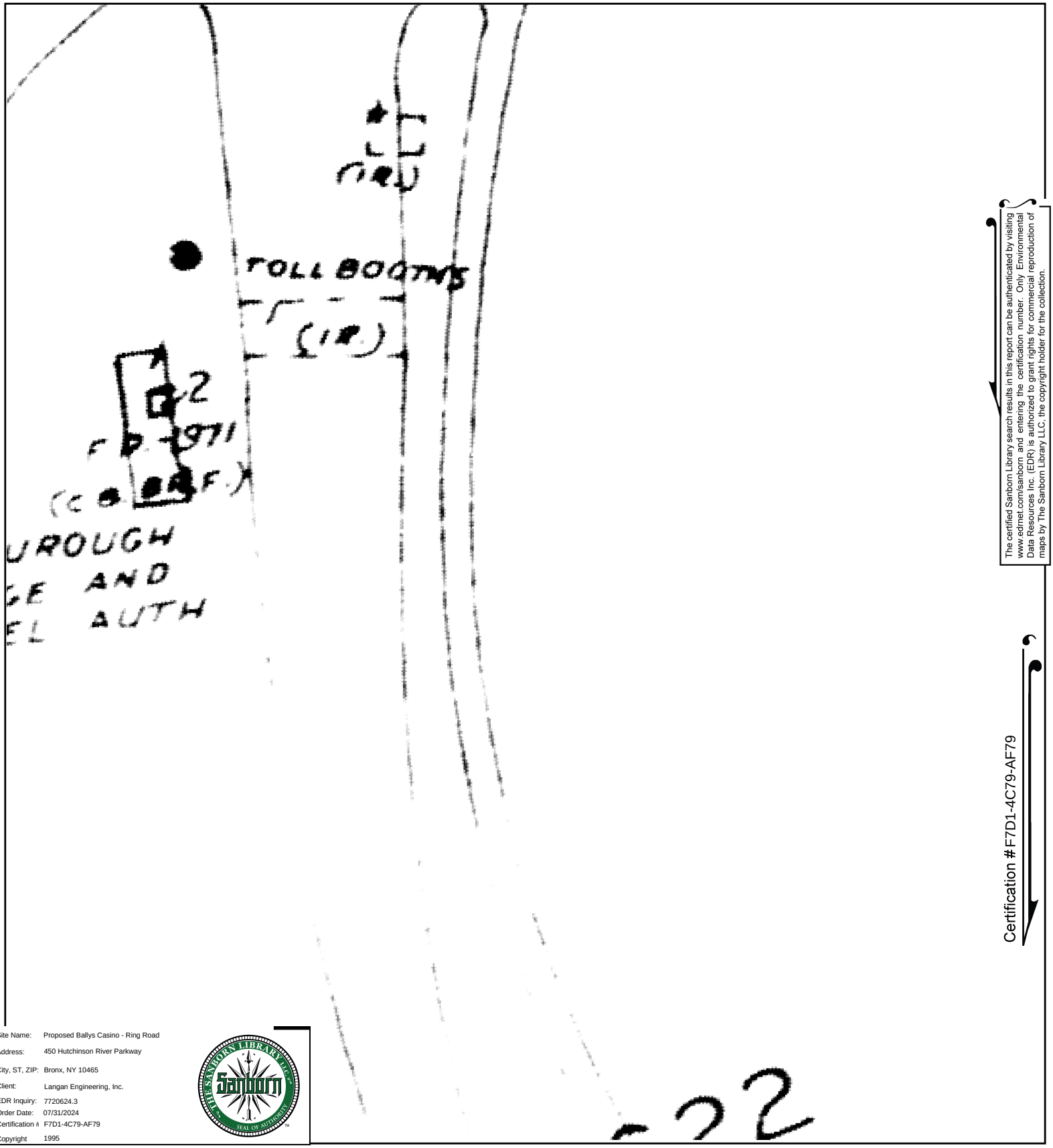

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Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1995

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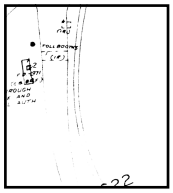

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1993

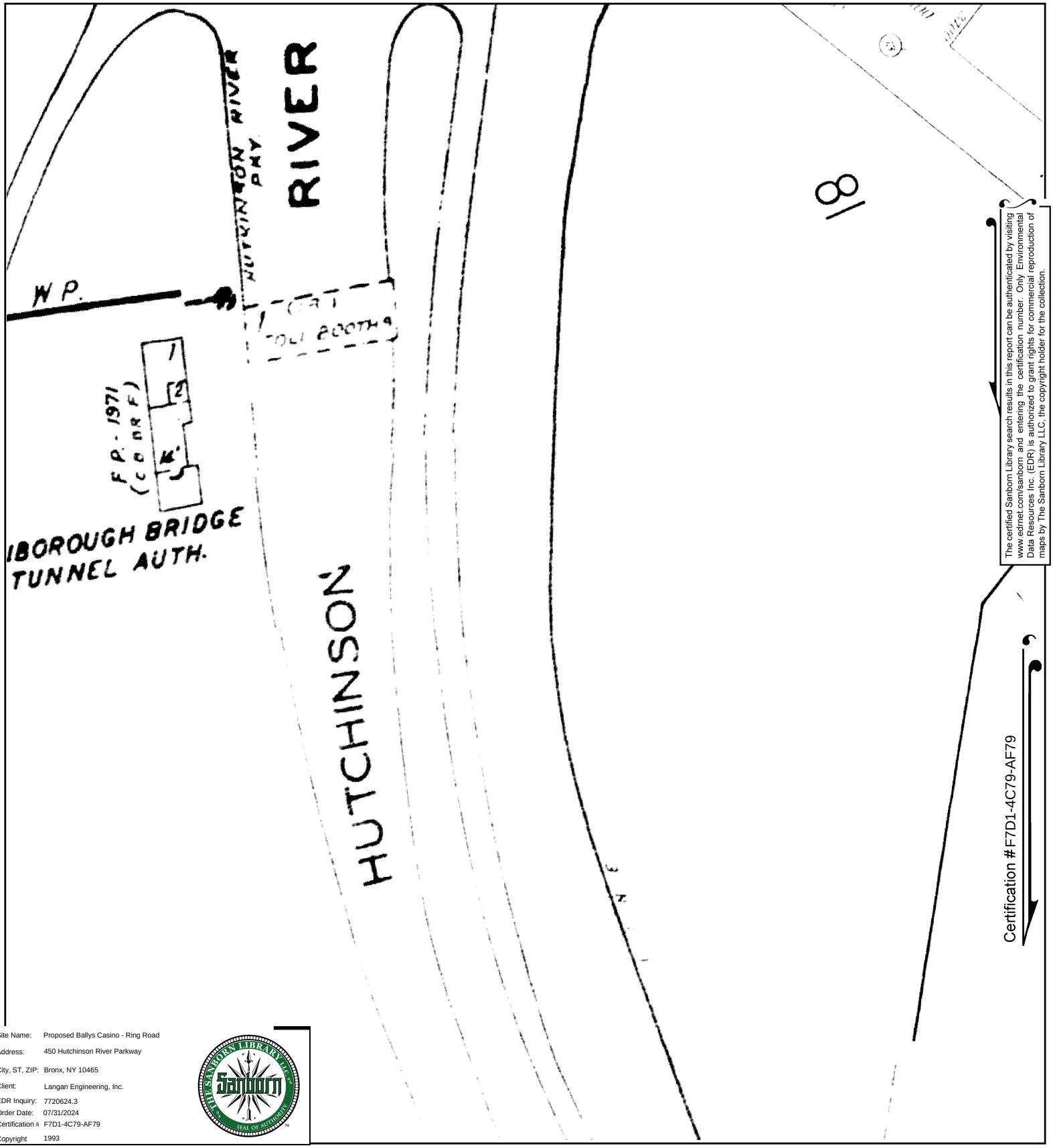

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Certification #	F7D1-4C79-AF79
Copyright	1993

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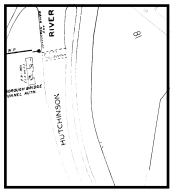

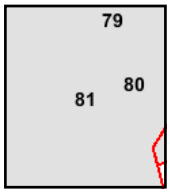

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1992

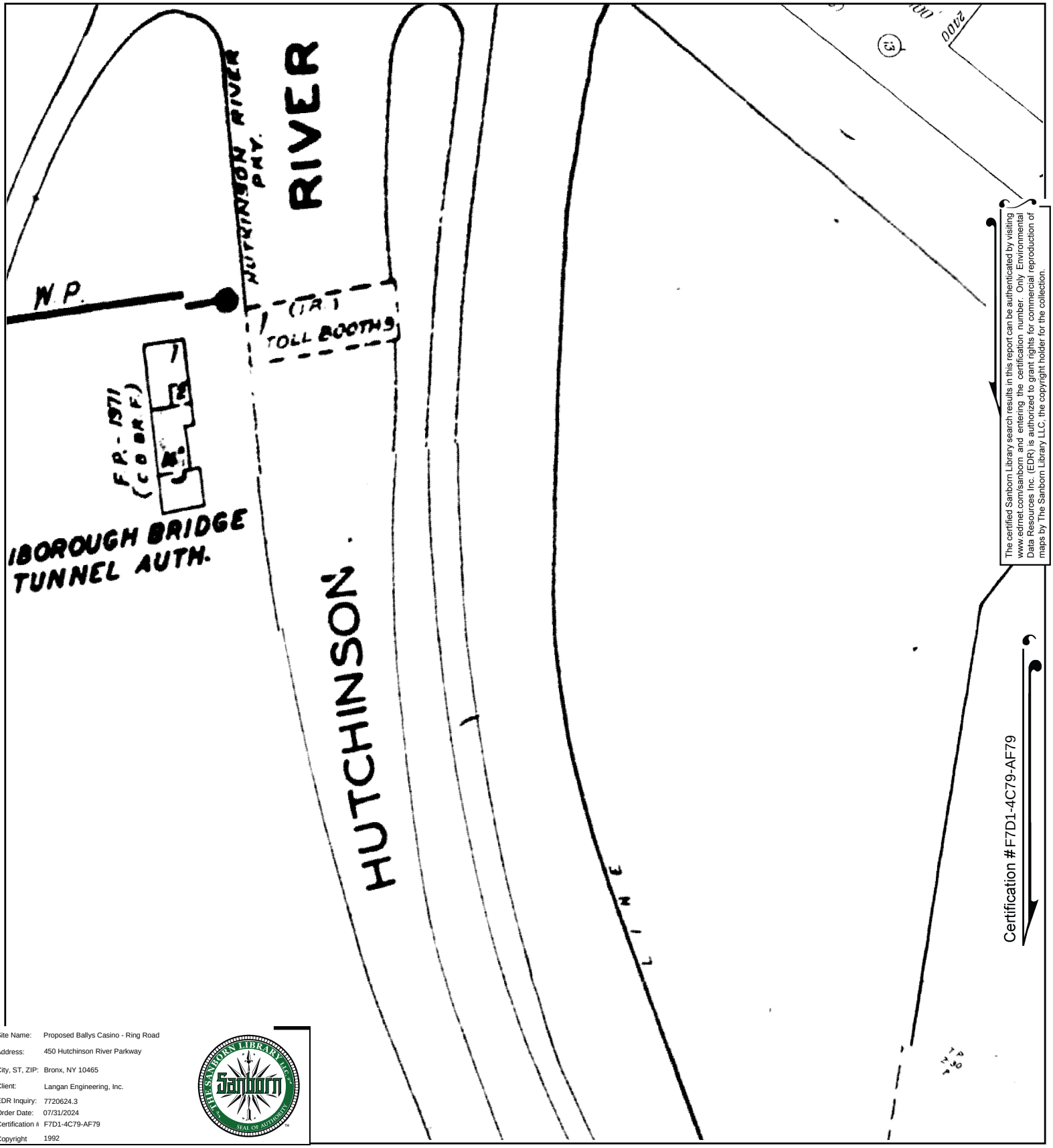

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Certification #	F7D1-4C79-AF79
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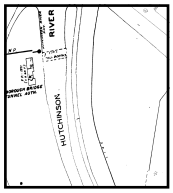

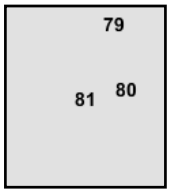

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1991

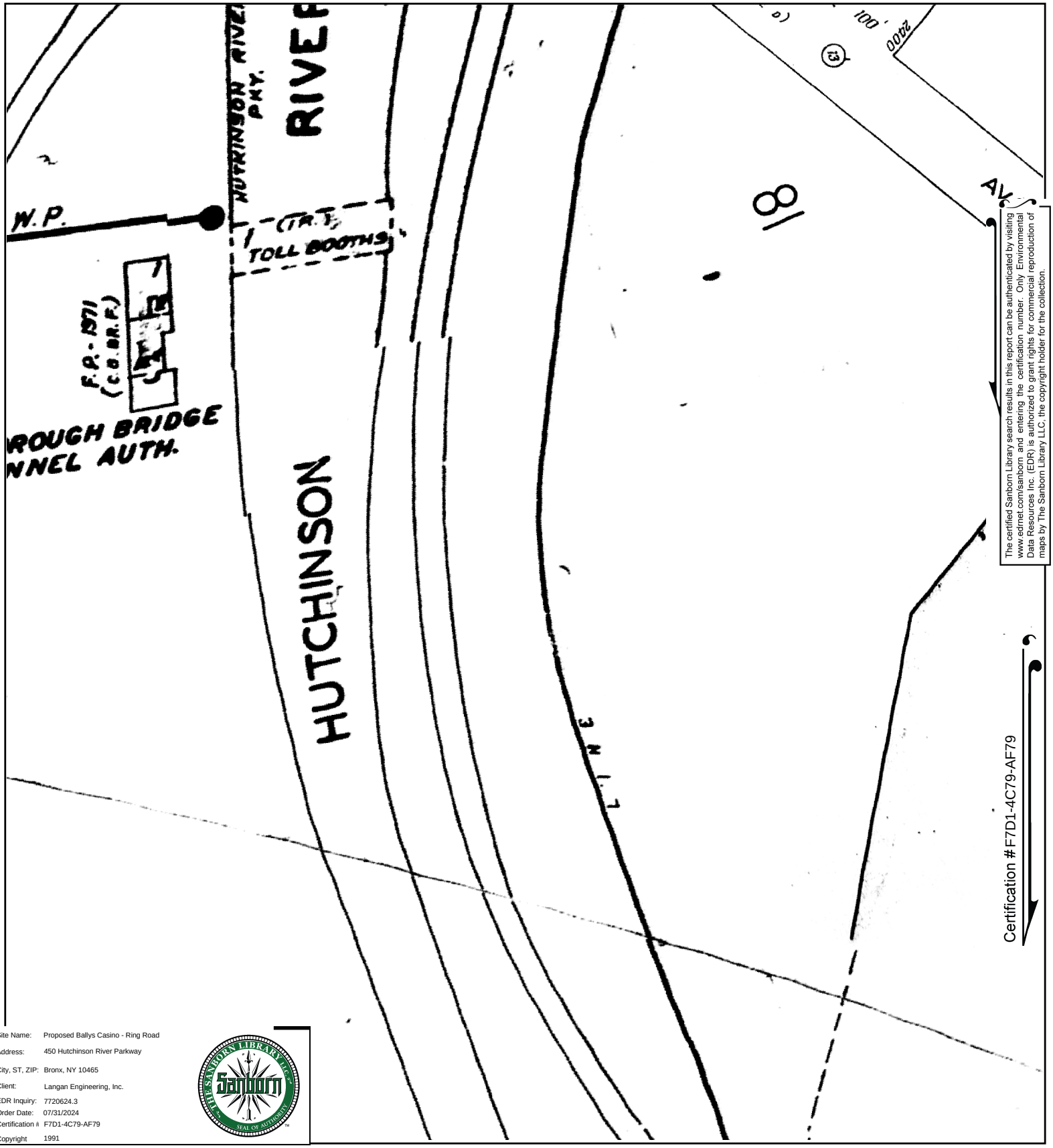

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Copyright	1991

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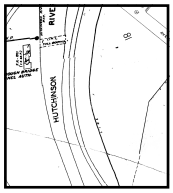

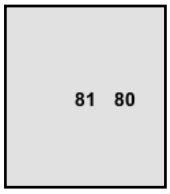

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1988

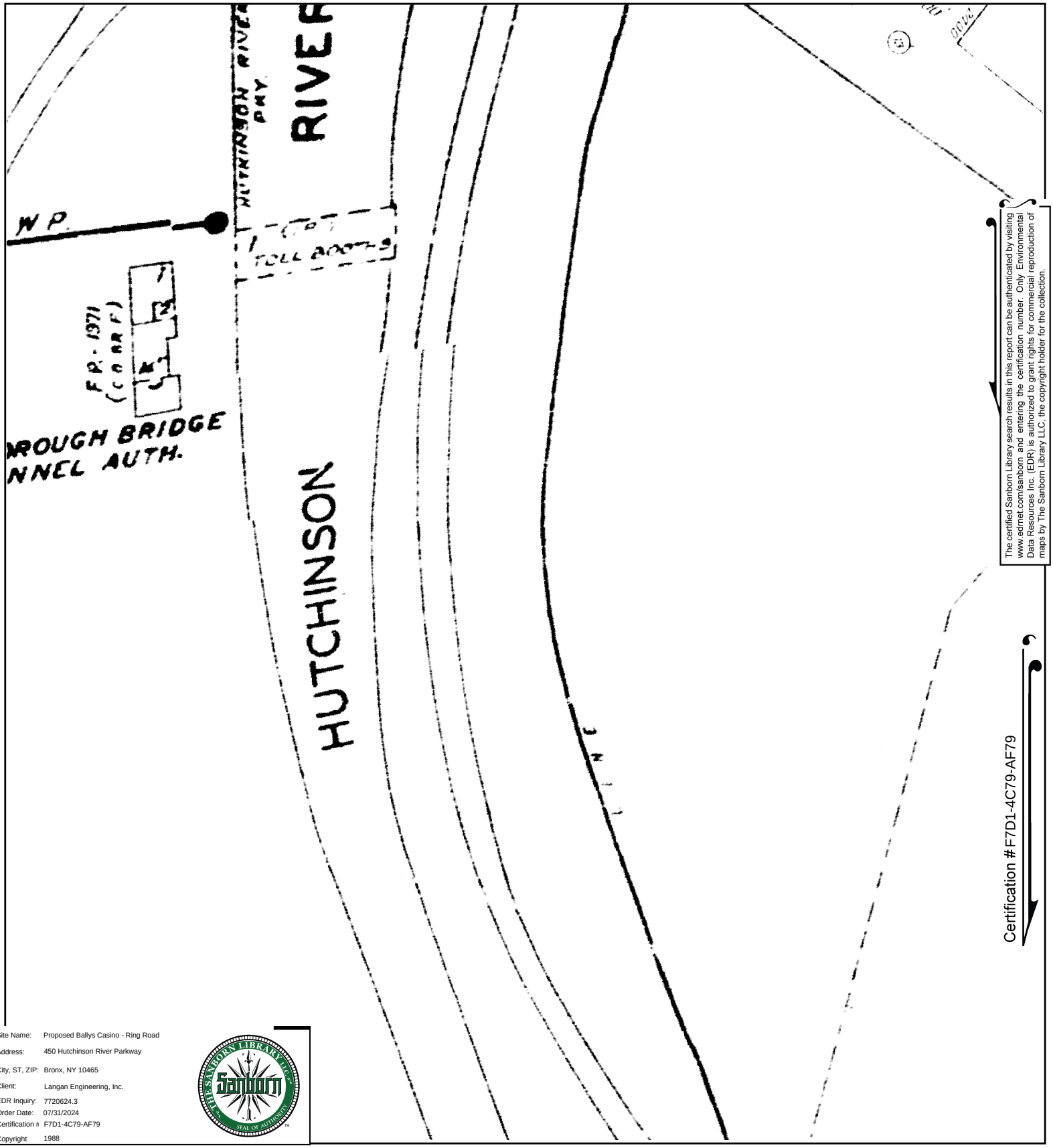

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Copyright	1988

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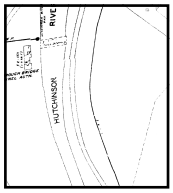

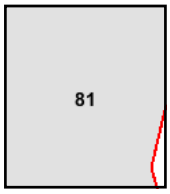

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1986

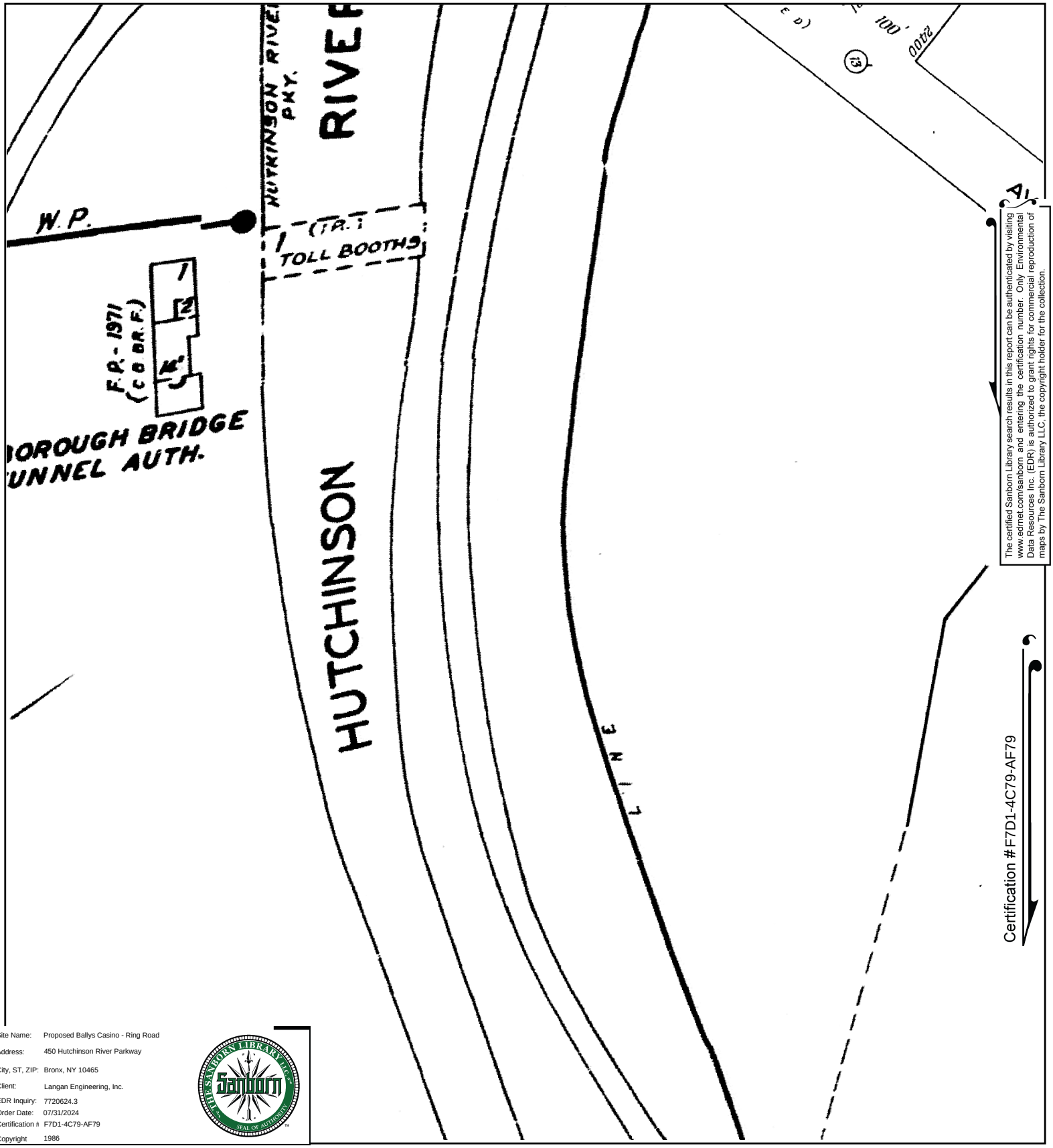

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Certification #	F7D1-4C79-AF79
Copyright	1986

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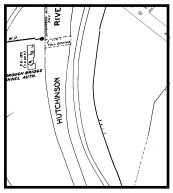

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1983

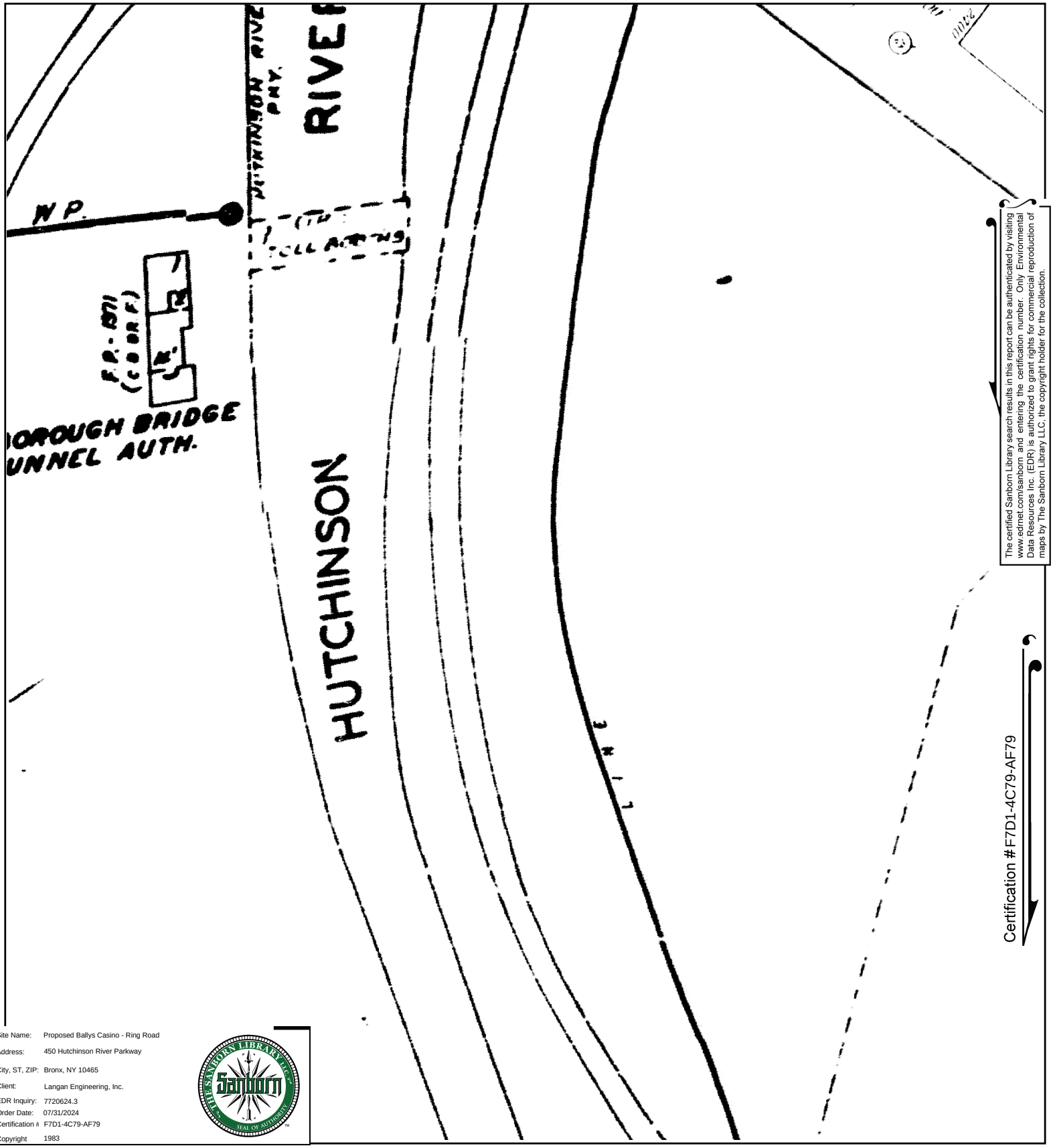

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Copyright	1983

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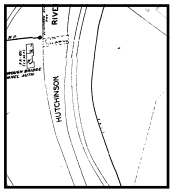

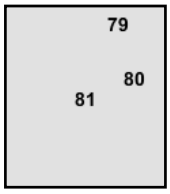

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N

Certified Sanborn® Map

1981

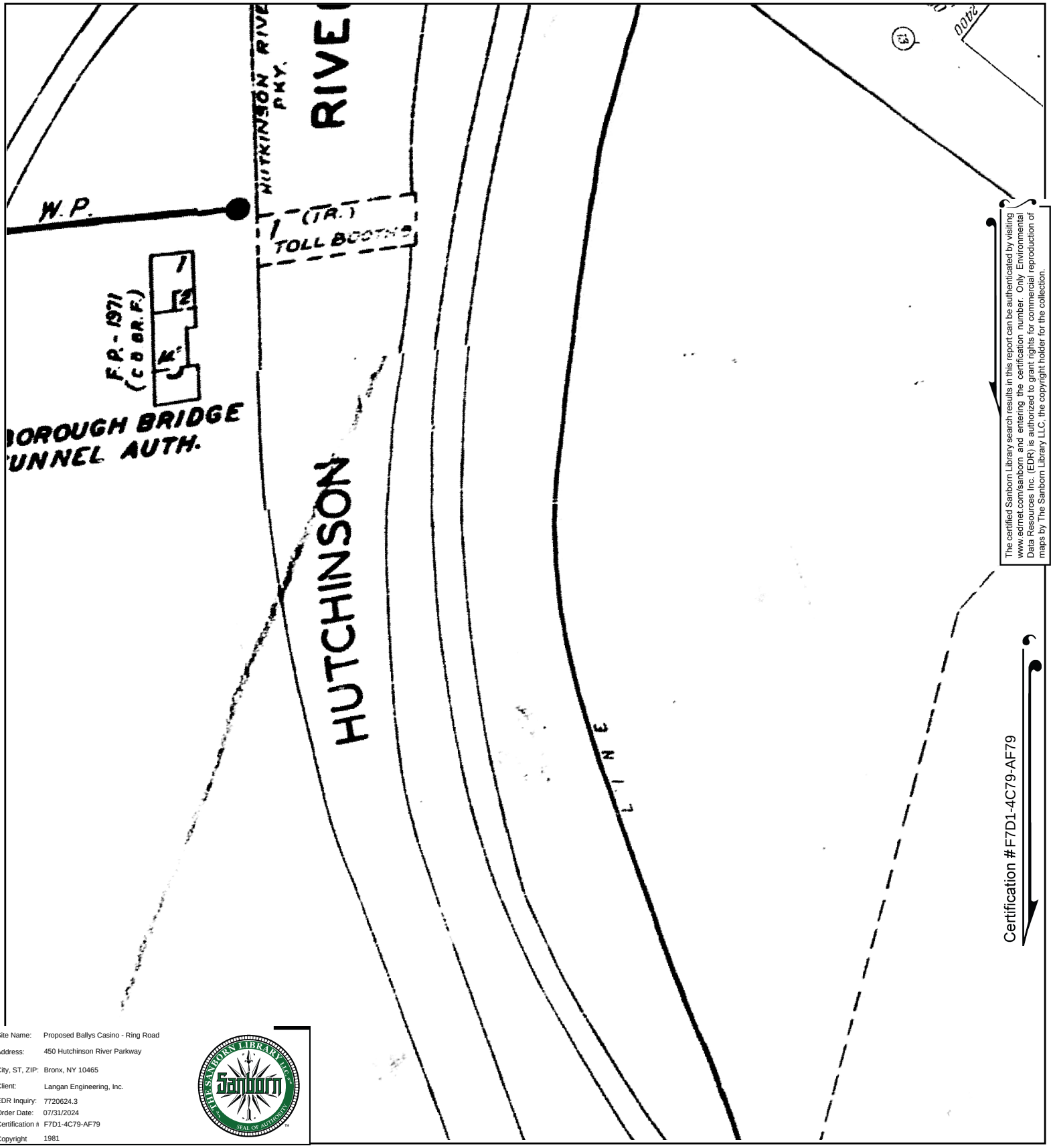

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1981

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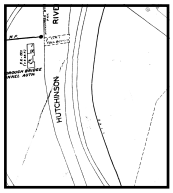

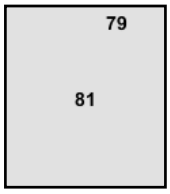

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N

Certified Sanborn® Map

1978

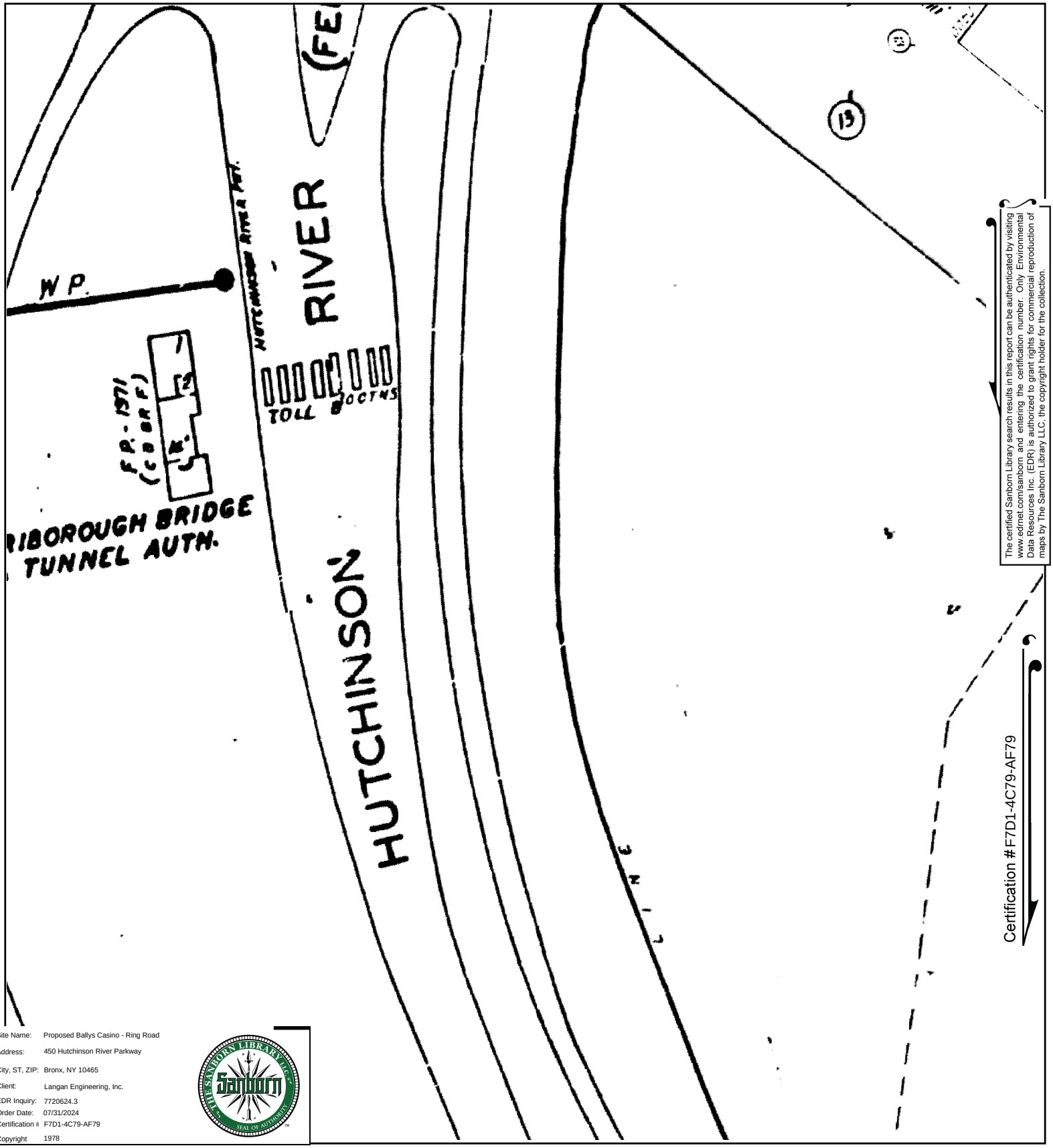

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Address:	450 Hutchinson River Parkway
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Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1978

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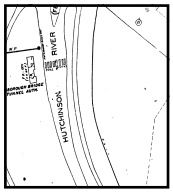

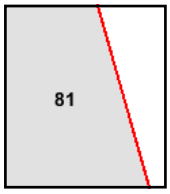

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N

Certified Sanborn® Map

1977

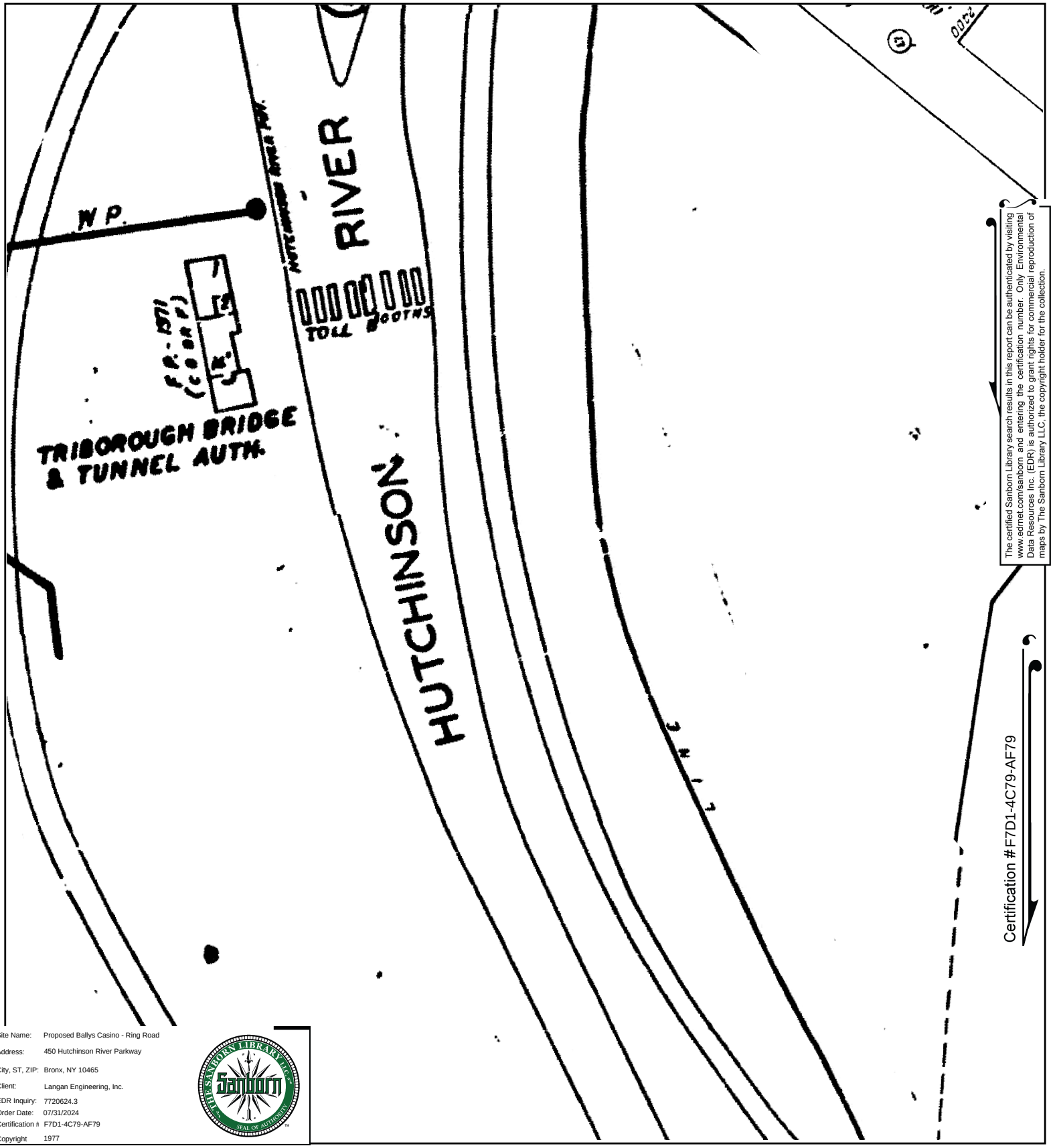

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Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1977

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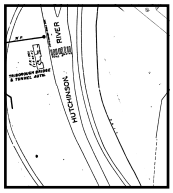

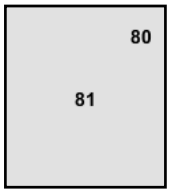

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N

Certified Sanborn® Map

1967

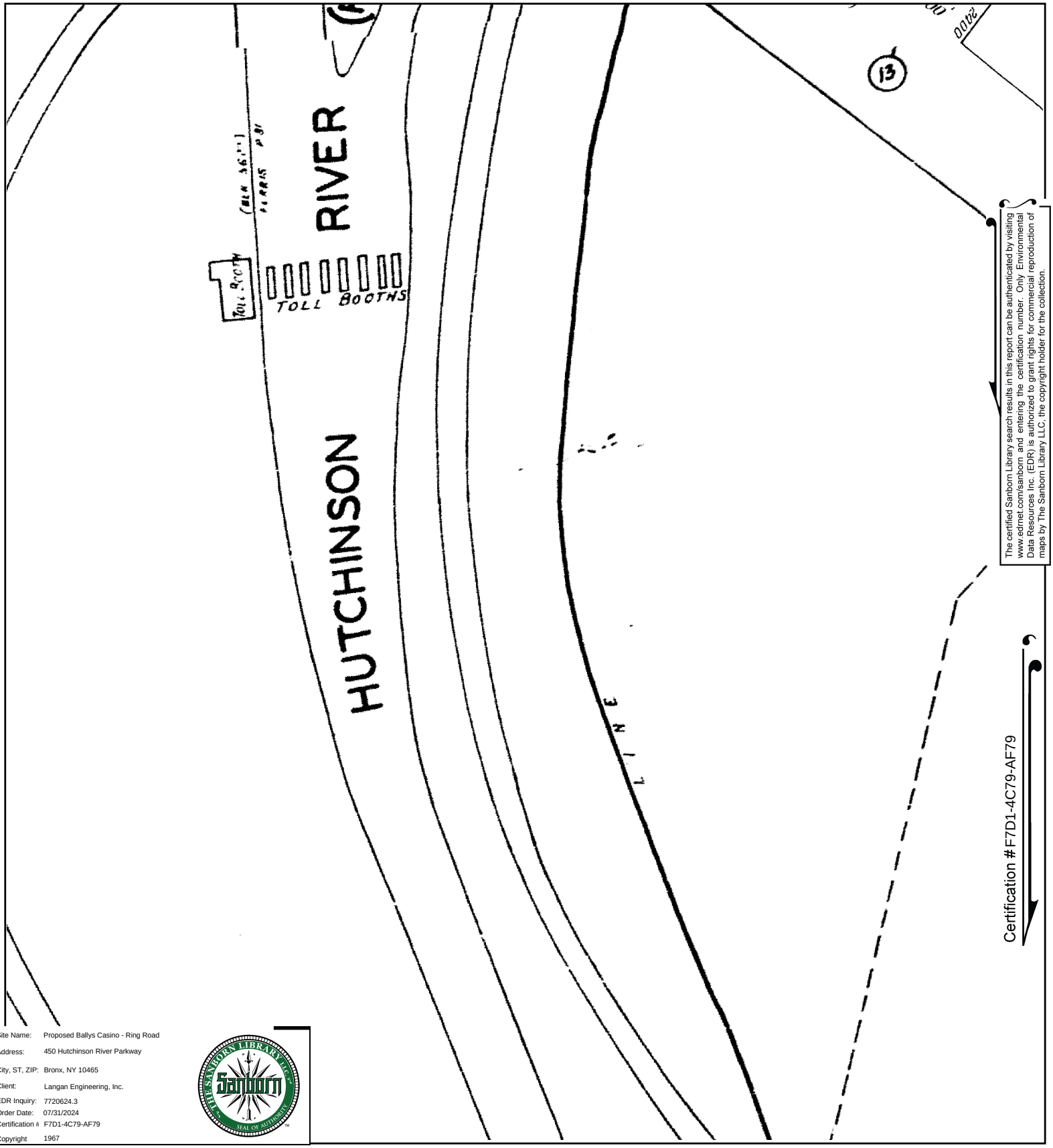

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
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Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1967

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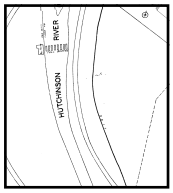

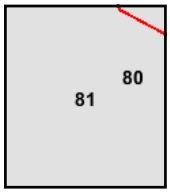

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N

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1950

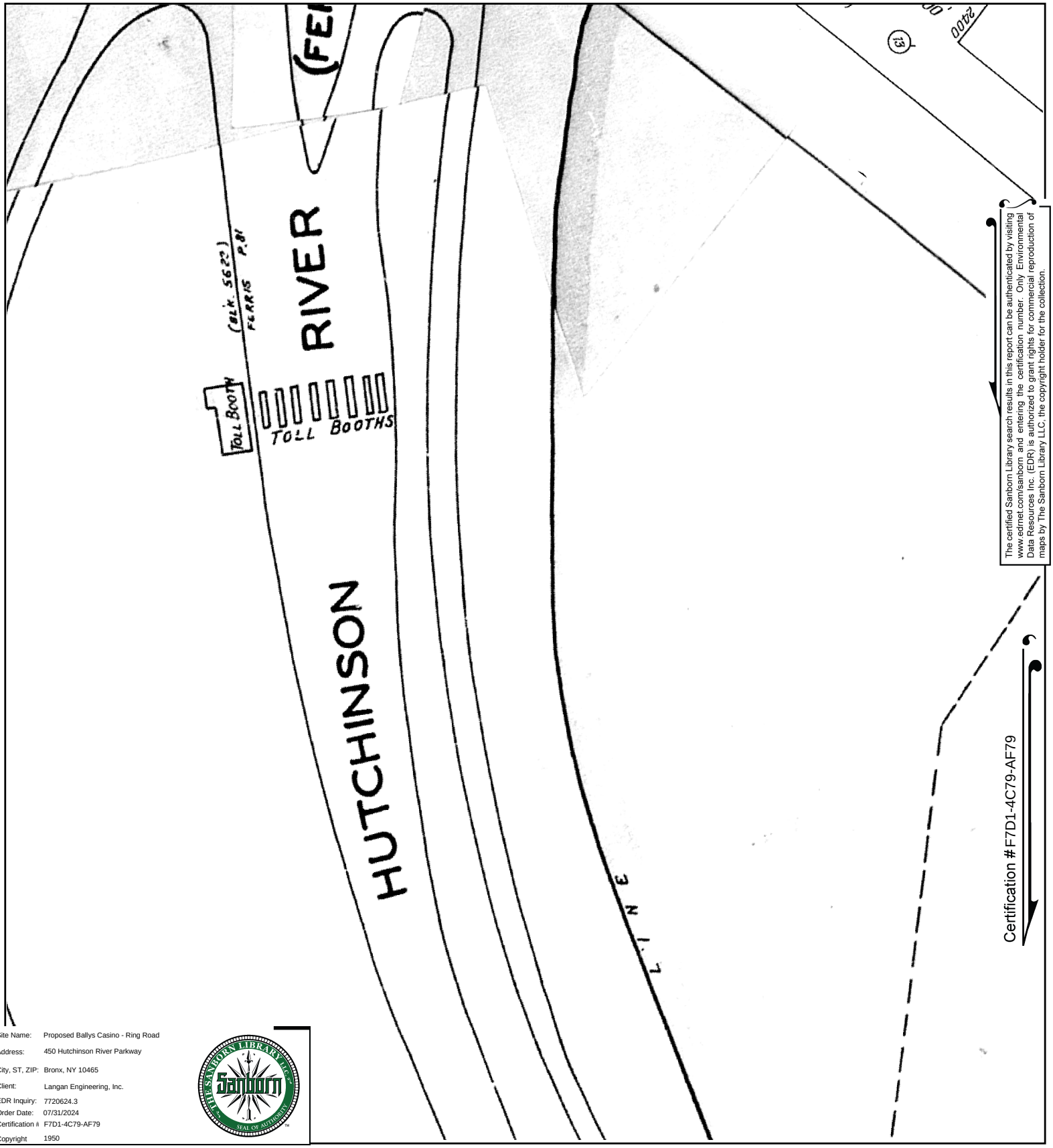

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1950

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81

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N

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1930

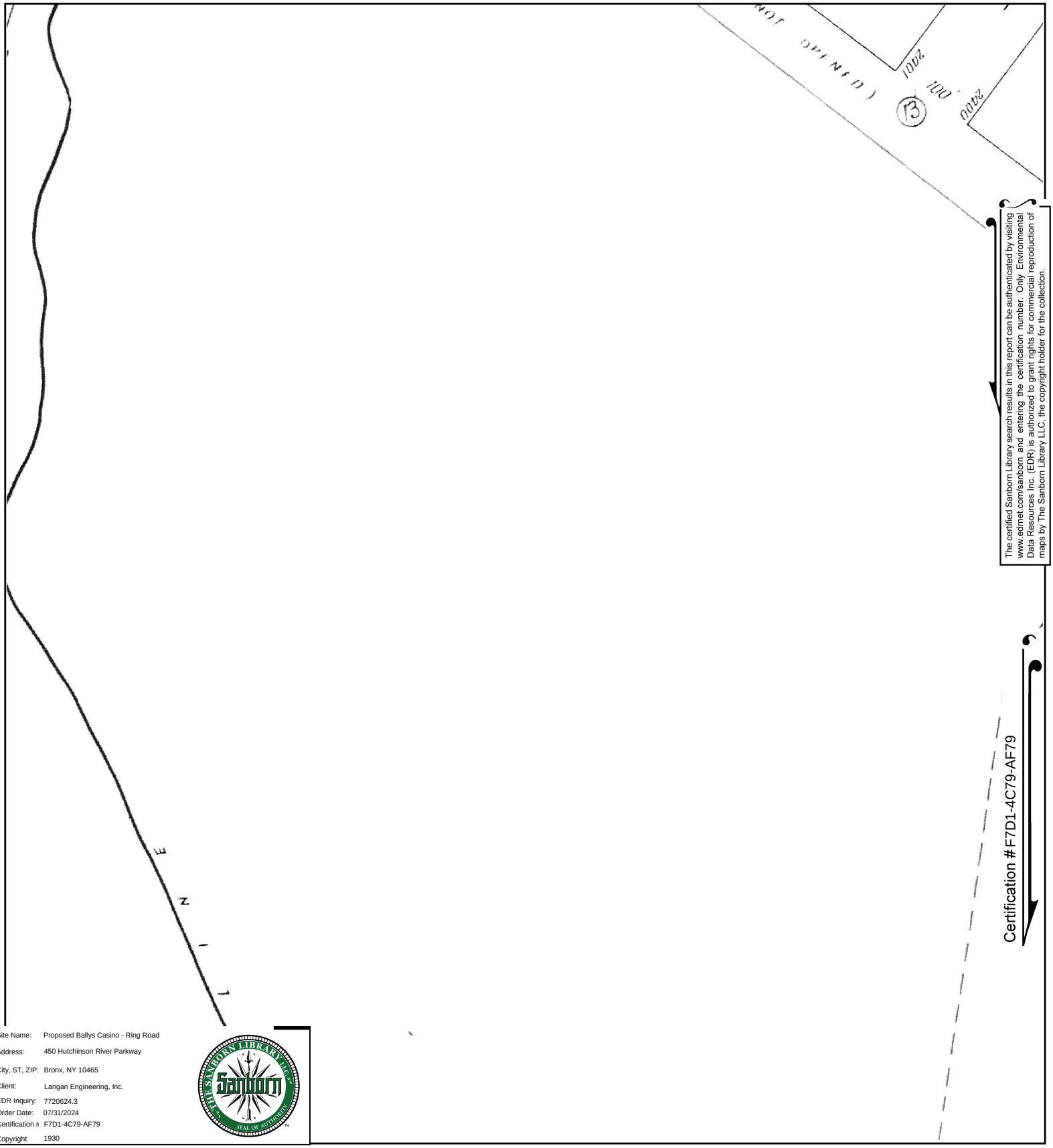

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1930

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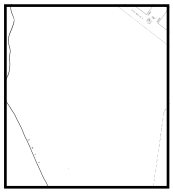

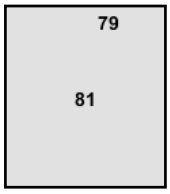

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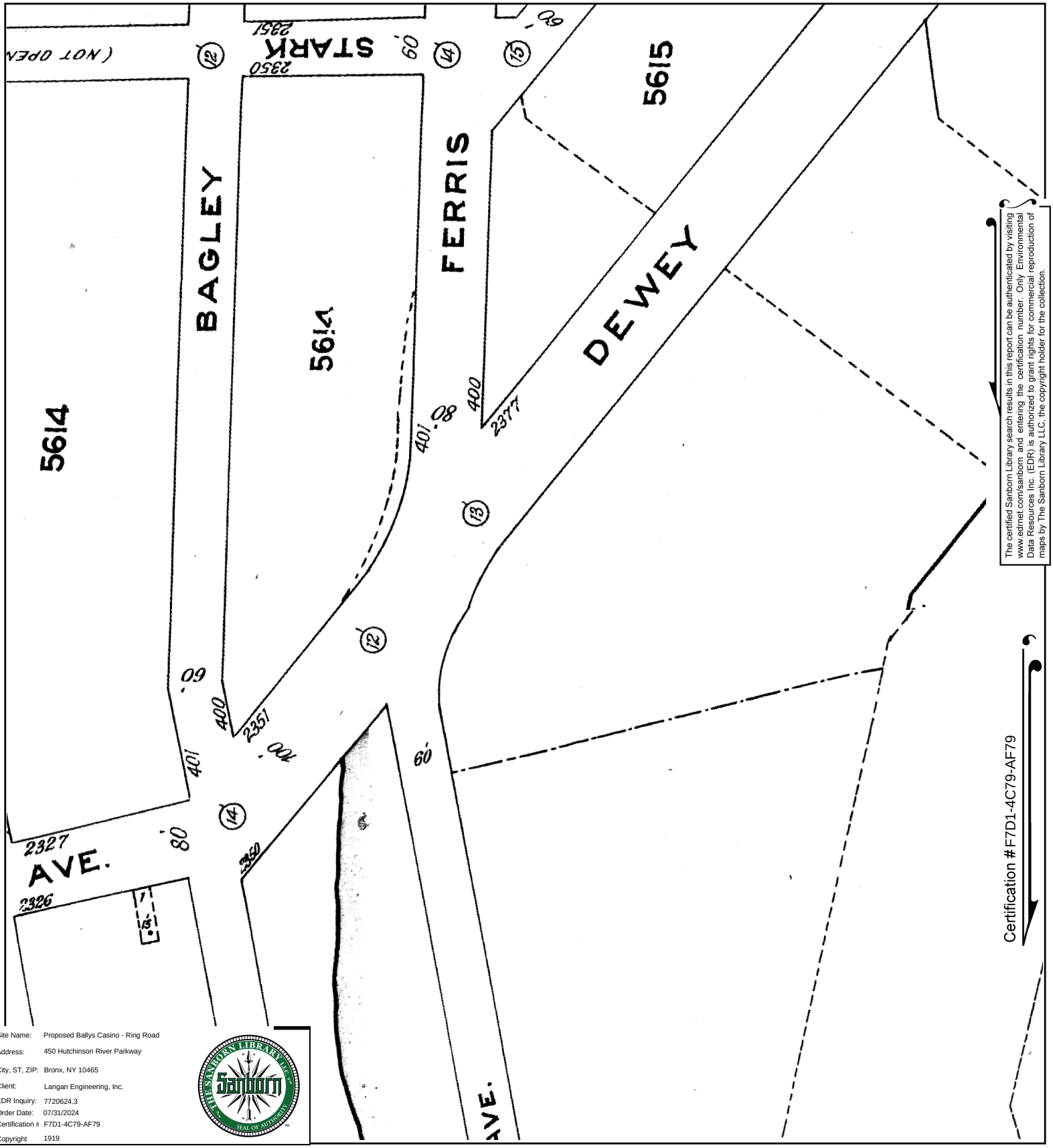

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1919

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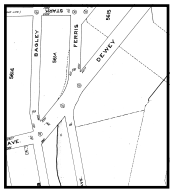

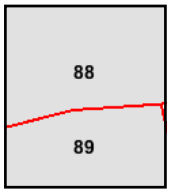

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Volume 17, Sheet 88

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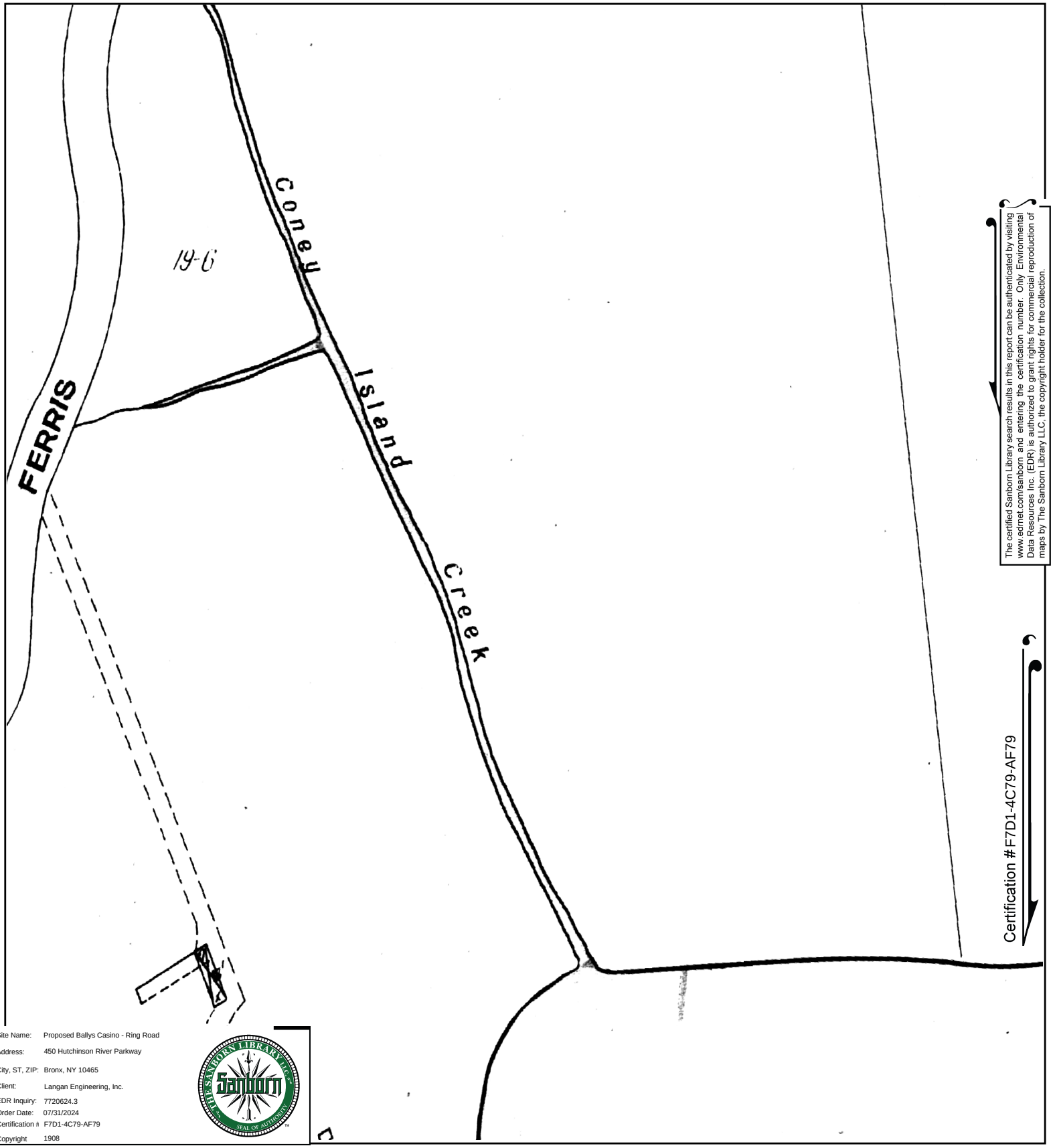

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1908

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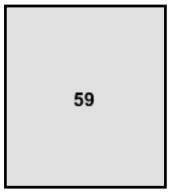

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N

Certified Sanborn® Map

1898

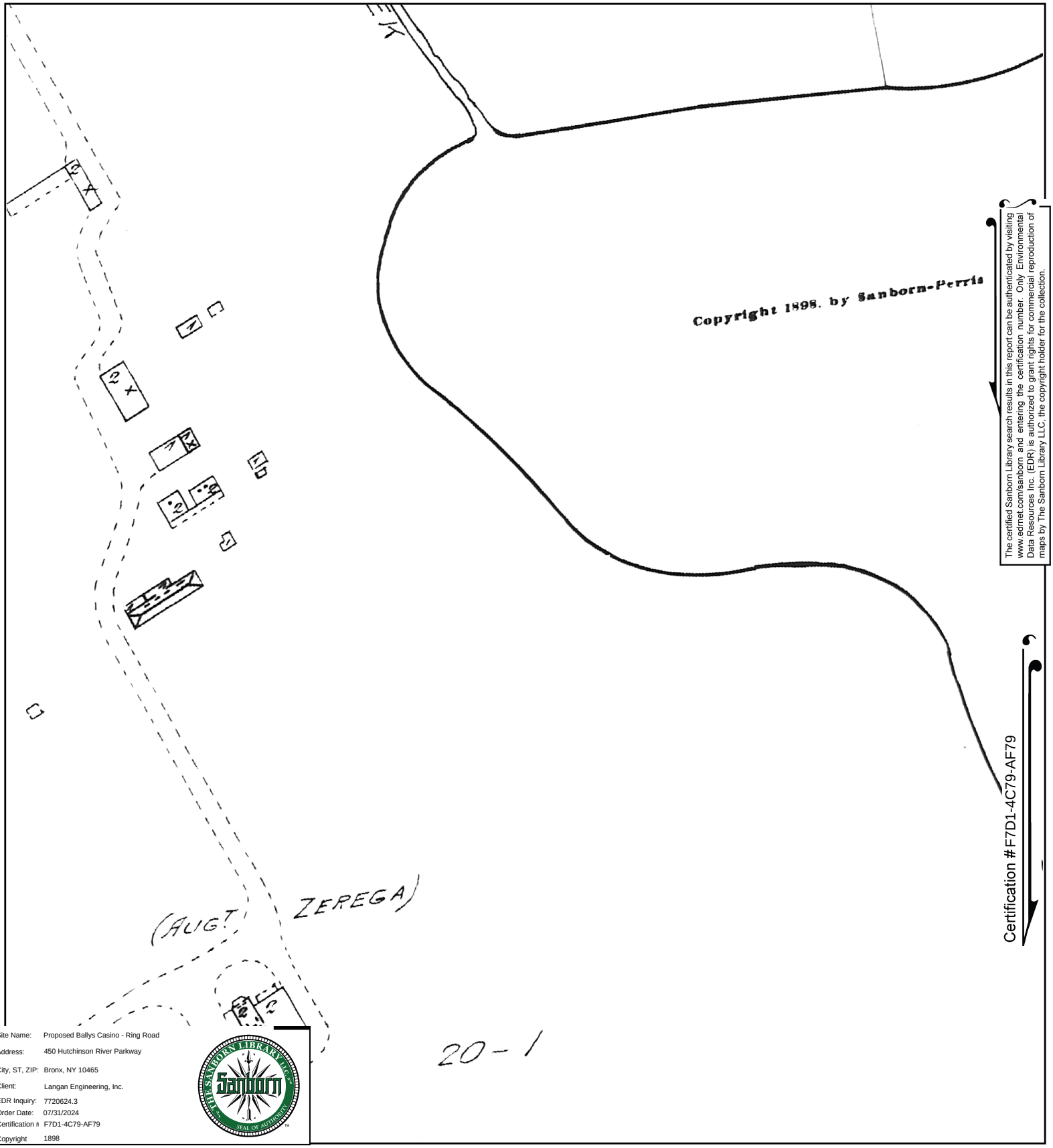

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Certification #F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1898

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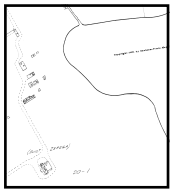

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N

Proposed Ballys Casino - Ring Road

450 Hutchinson River Parkway

Bronx, NY 10465

Inquiry Number: 7720624.3

July 31, 2024

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6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

07/31/24

Site Name:	Client Name:
Proposed Ballys Casino - Ring	Langan Engineering, Inc.
450 Hutchinson River Parkway	360 W. 31st Street
Bronx, NY 10465	New York, NY 10001
EDR Inquiry # 7720624.3	Contact: Kaitlyn Gioia

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Certified Sanborn Results:

Certification # F7D1-4C79-AF79

PO # 170773001

Project Prpsd Bally s Casino - Ring Rd

Maps Provided:

2007	1996	1981	1898
2006	1995	1978	
2005	1993	1977	
2004	1992	1967	
2003	1991	1950	
2002	1988	1930	
2001	1986	1919	
1998	1983	1908	

Sanborn® Library search results

Certification #: F7D1-4C79-AF79

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- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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2007 Source Sheets

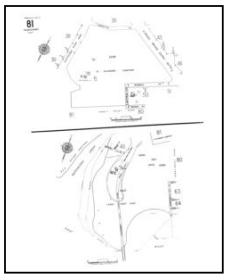

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2007

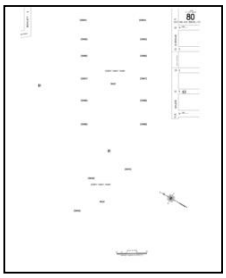

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2007

2006 Source Sheets

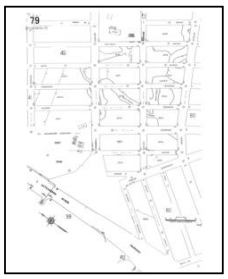

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2006

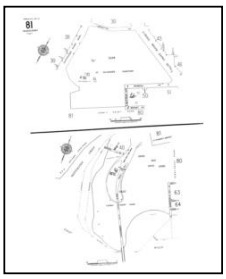

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2006

2005 Source Sheets

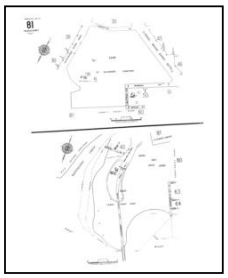

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2005

2004 Source Sheets

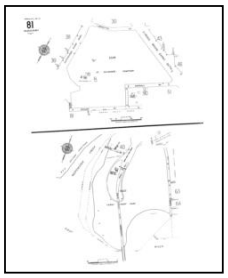

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2004

Sanborn Sheet Key

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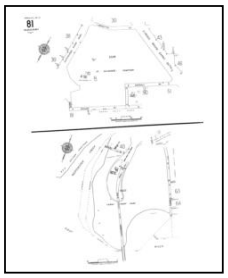

Volume 21, Sheet 81
2003

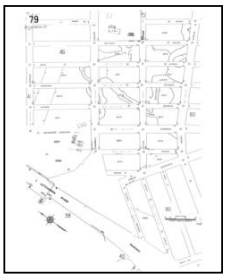

Volume 21, Sheet 79
2003

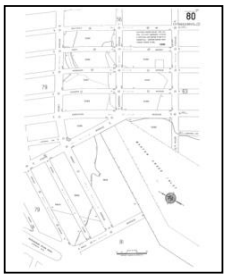

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2003

2002 Source Sheets

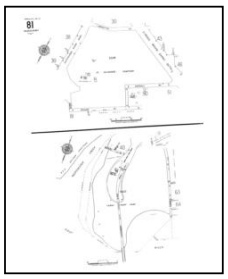

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2002

2001 Source Sheets

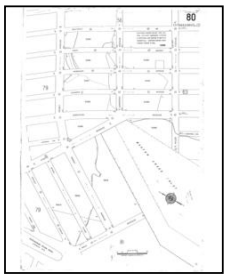

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2001

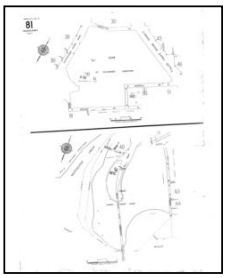

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2001

1998 Source Sheets

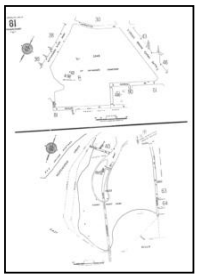

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1998

Sanborn Sheet Key

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1996 Source Sheets

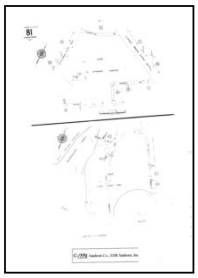

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1996

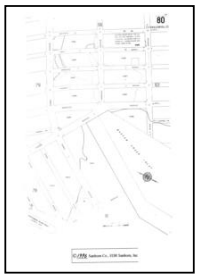

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1996

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1996

1995 Source Sheets

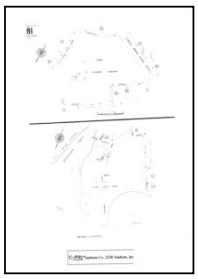

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1995

1993 Source Sheets

Volume 21, Sheet 81
1993

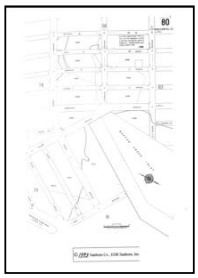

Volume 21, Sheet 80
1993

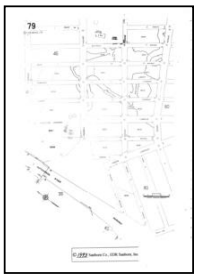

Volume 21, Sheet 79
1993

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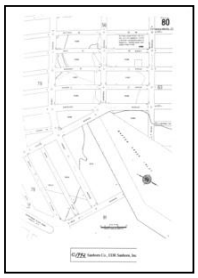

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1992

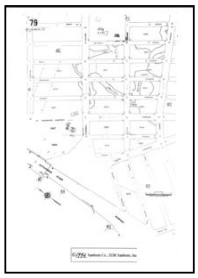

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1992

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1992

Sanborn Sheet Key

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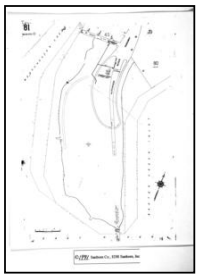

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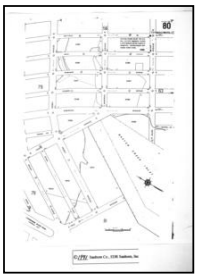

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1991

1988 Source Sheets

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1988

1986 Source Sheets

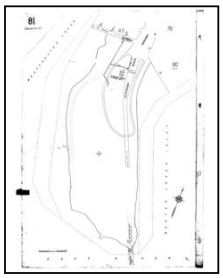

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1986

1983 Source Sheets

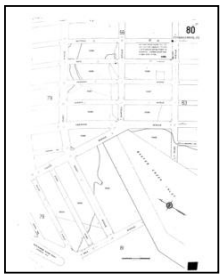

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1983

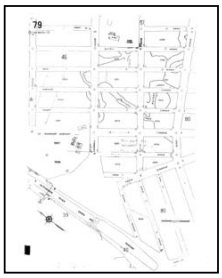

Volume 21, Sheet 79
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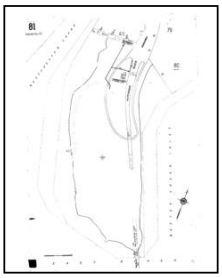

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1983

Sanborn Sheet Key

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1981 Source Sheets

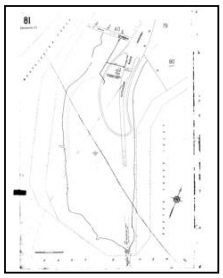

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1981

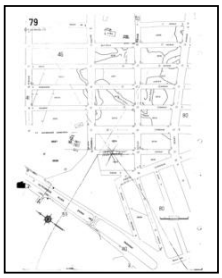

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1981

1978 Source Sheets

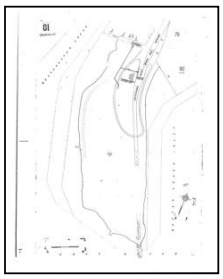

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1978

1977 Source Sheets

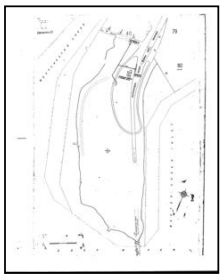

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1977

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1977

1967 Source Sheets

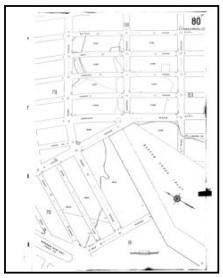

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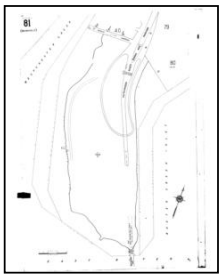

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1967

Sanborn Sheet Key

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1950 Source Sheets

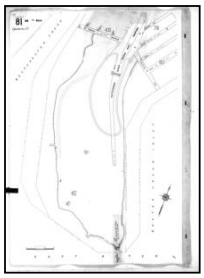

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1950

1930 Source Sheets

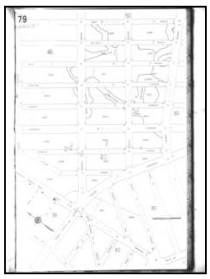

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1930

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1930

1919 Source Sheets

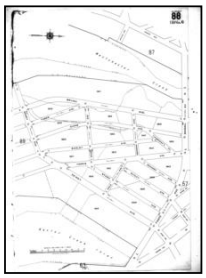

Volume 17, Sheet 88
1919

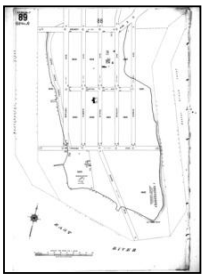

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1919

1908 Source Sheets

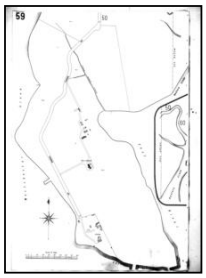

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1908

Sanborn Sheet Key

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1898 Source Sheets

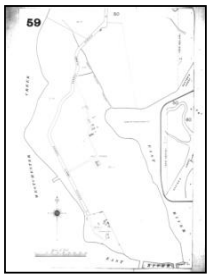

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1898

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2007

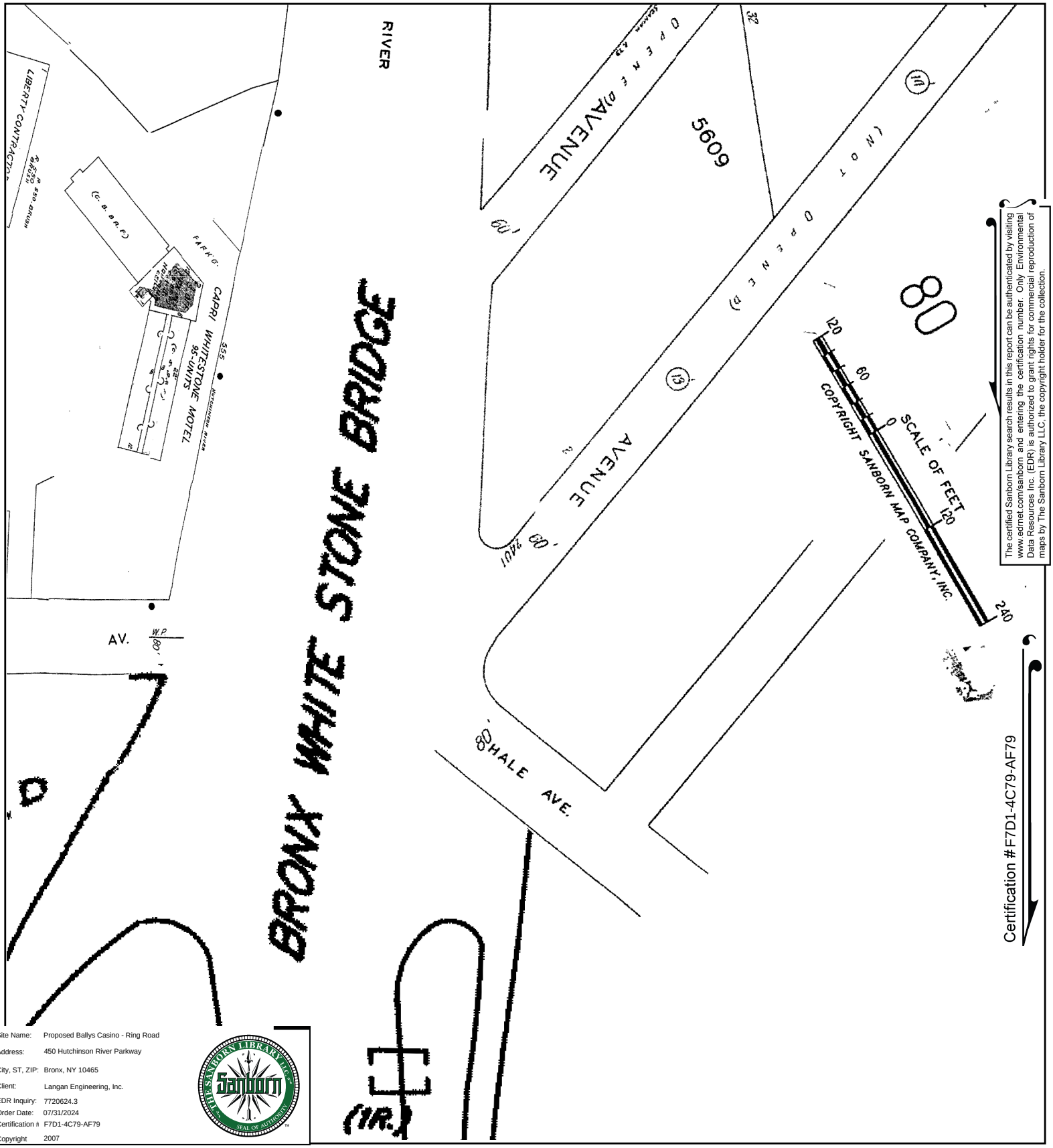

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Certification #F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	2007

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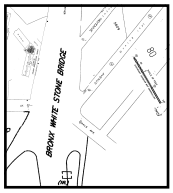

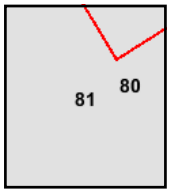

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N

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2006

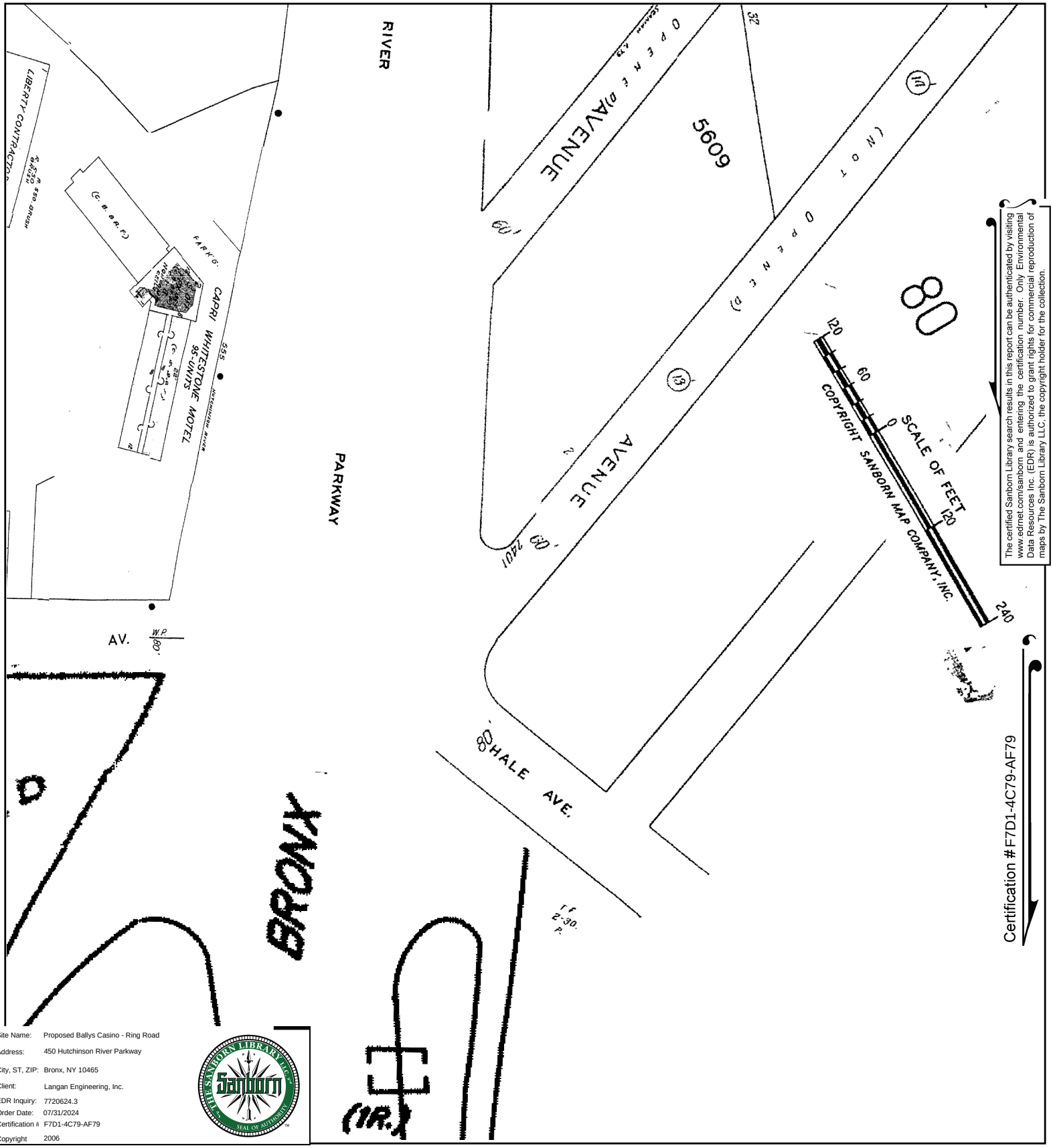

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Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
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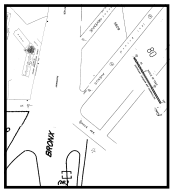

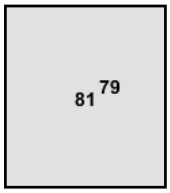

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N

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2005

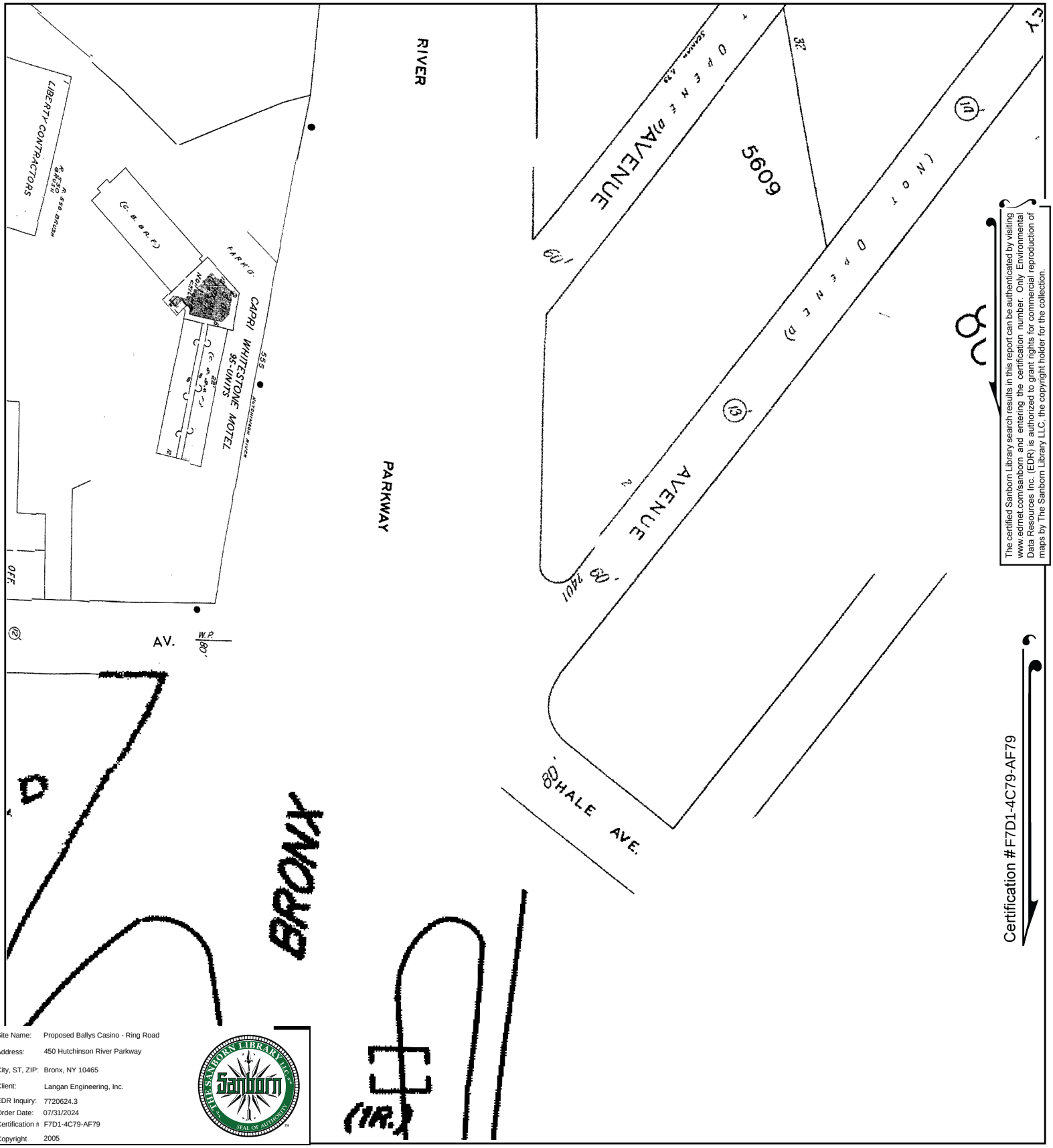

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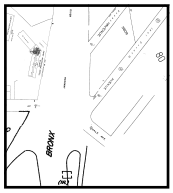

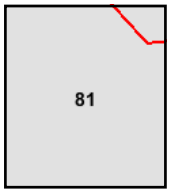

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0 Feet 150 300 600

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2004

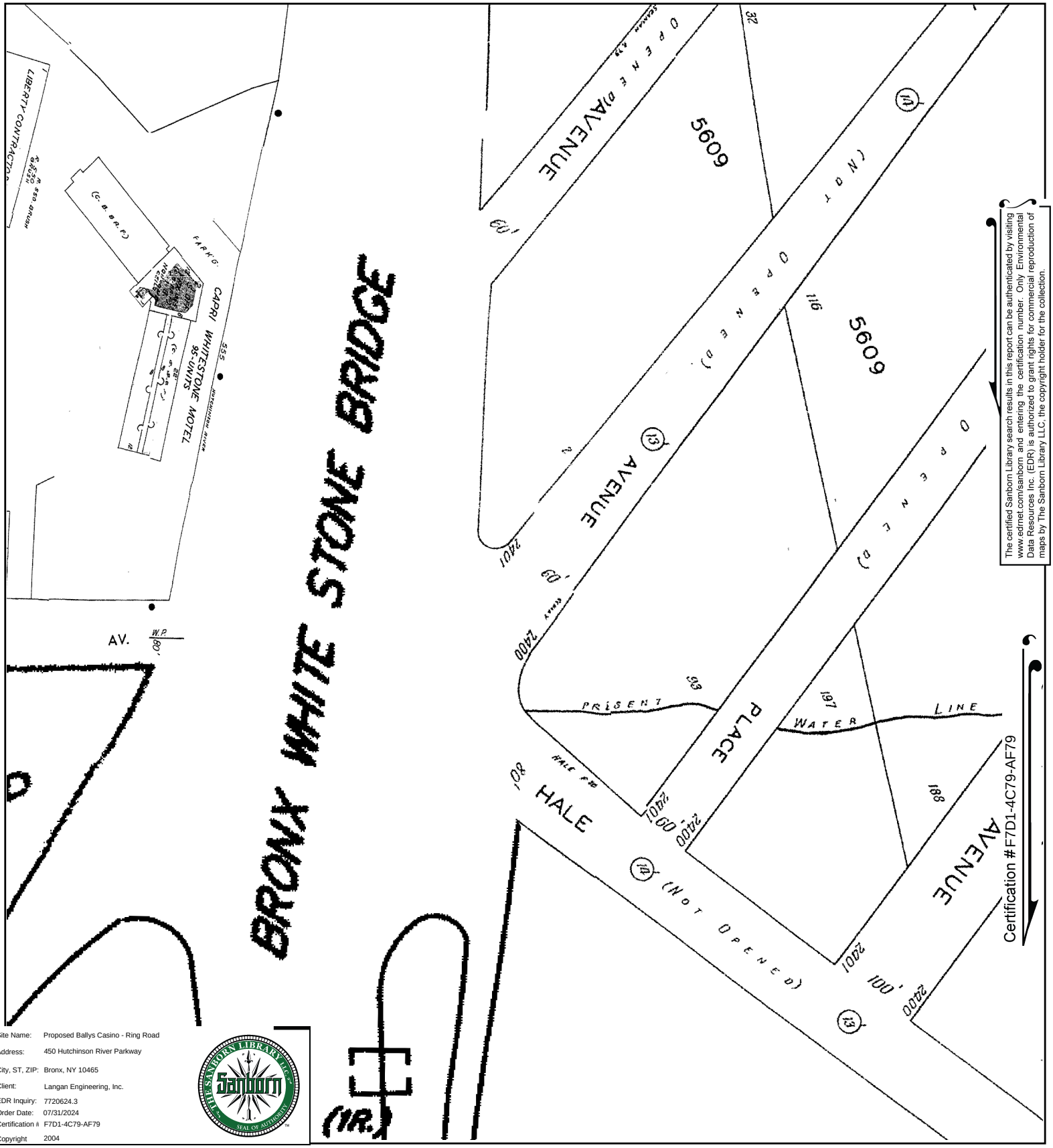

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EDR Inquiry:	7720624.3
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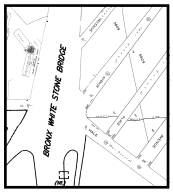

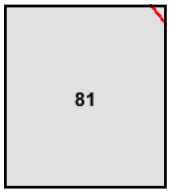

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2003

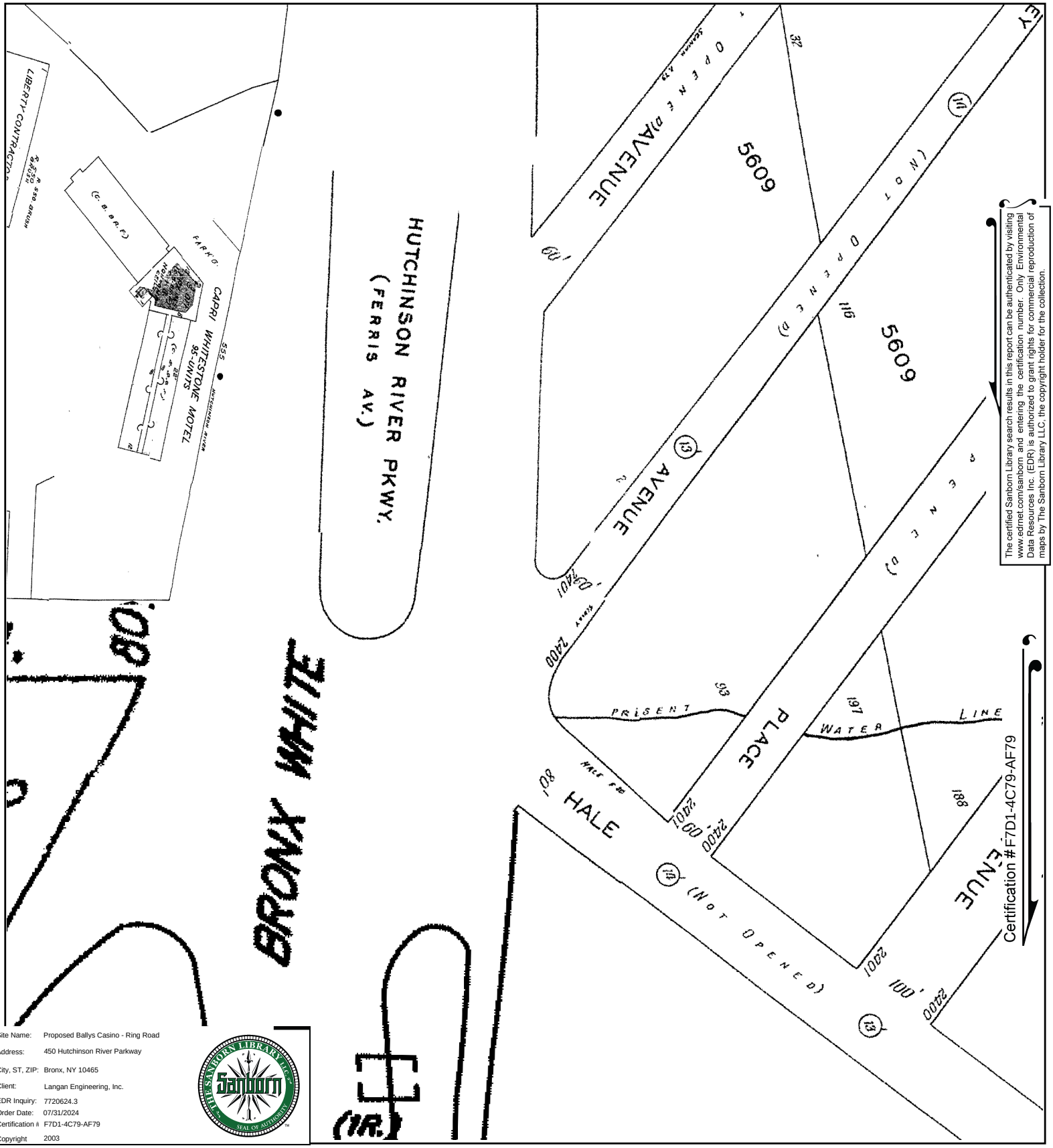

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Certification #	F7D1-4C79-AF79
Copyright	2003

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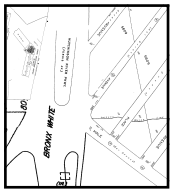

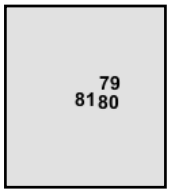

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2002

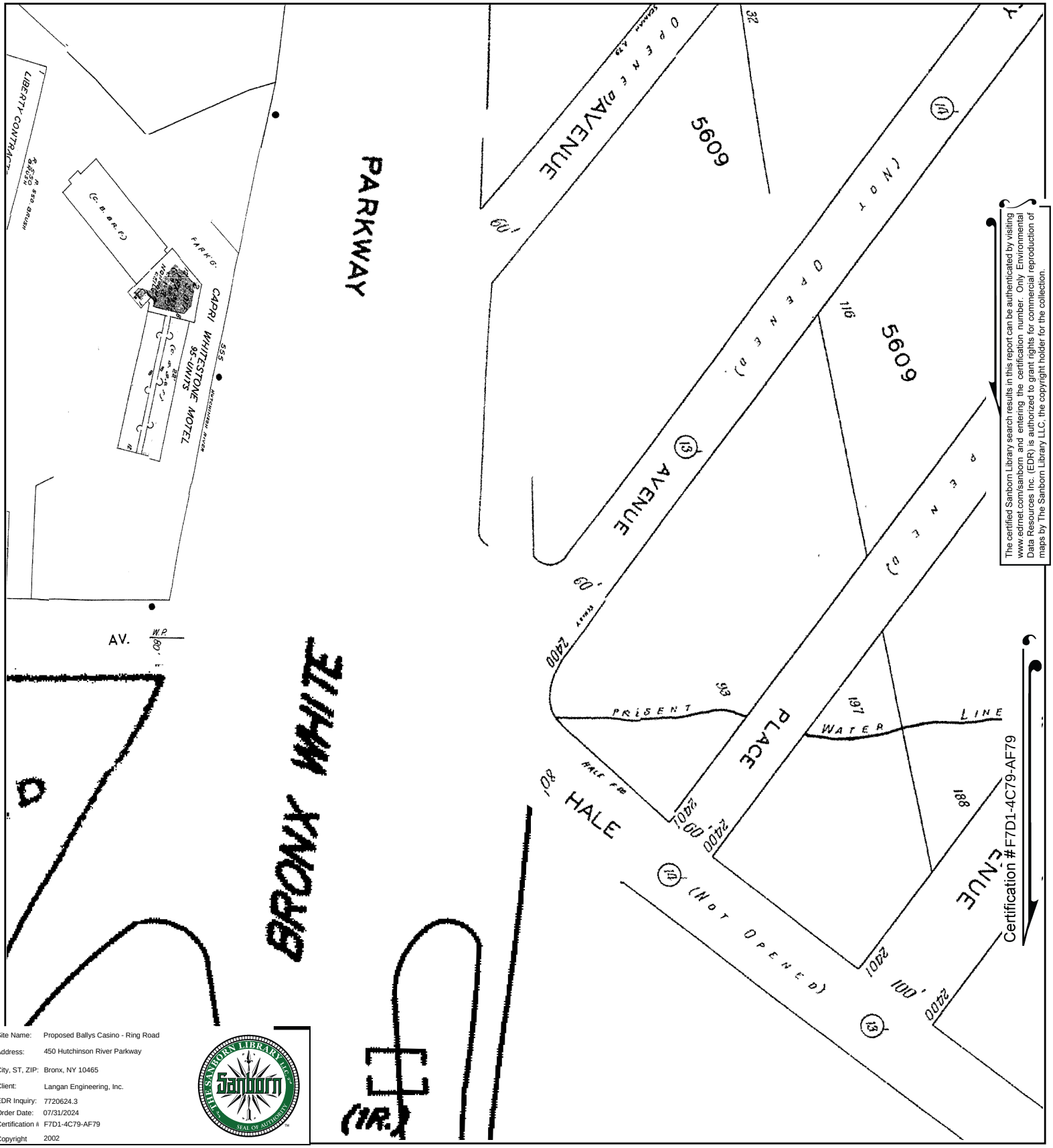

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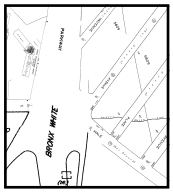

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N

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2001

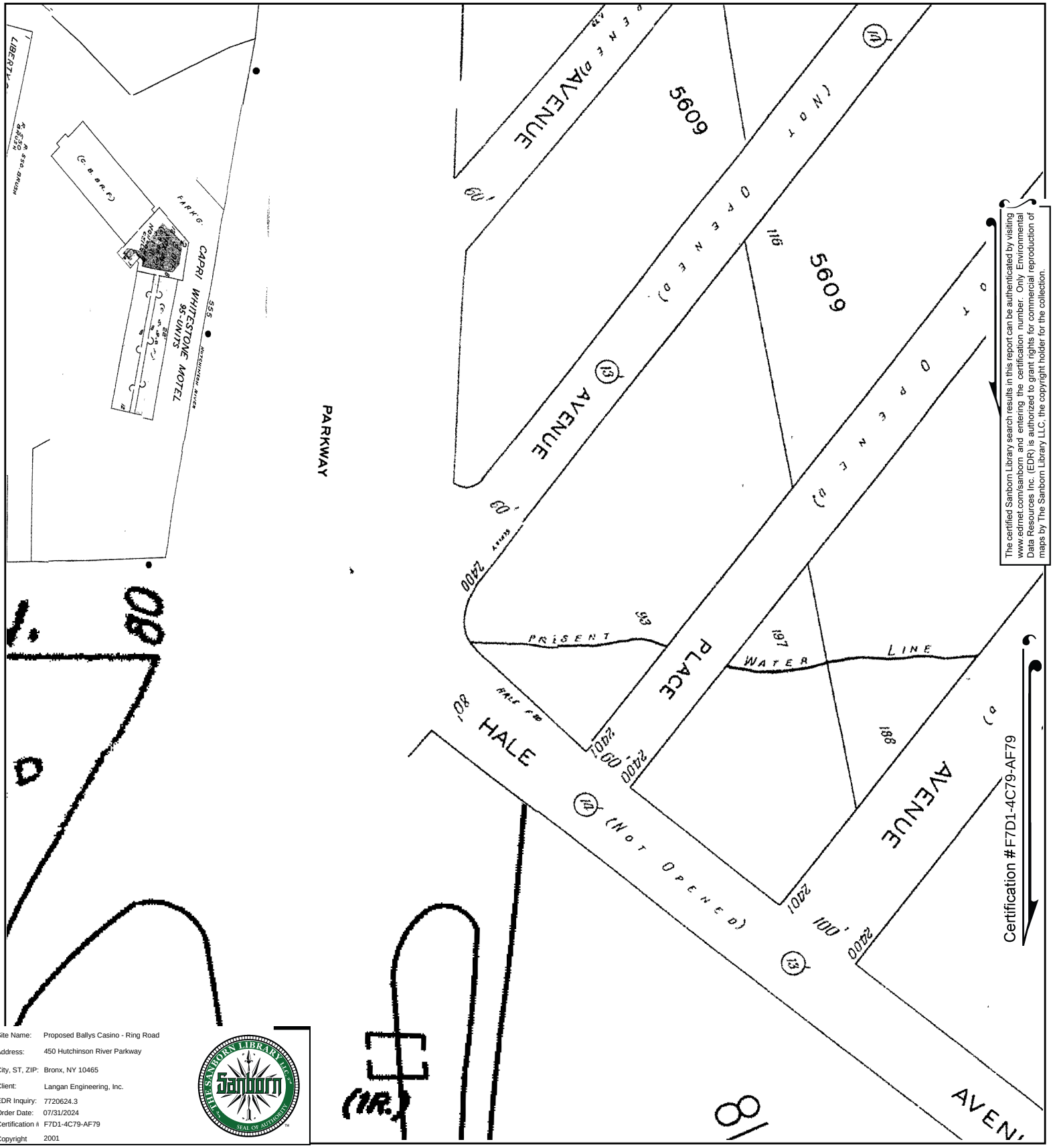

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	2001

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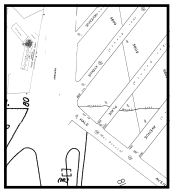

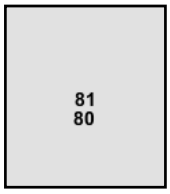

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0 Feet 150 300 600

N

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1998

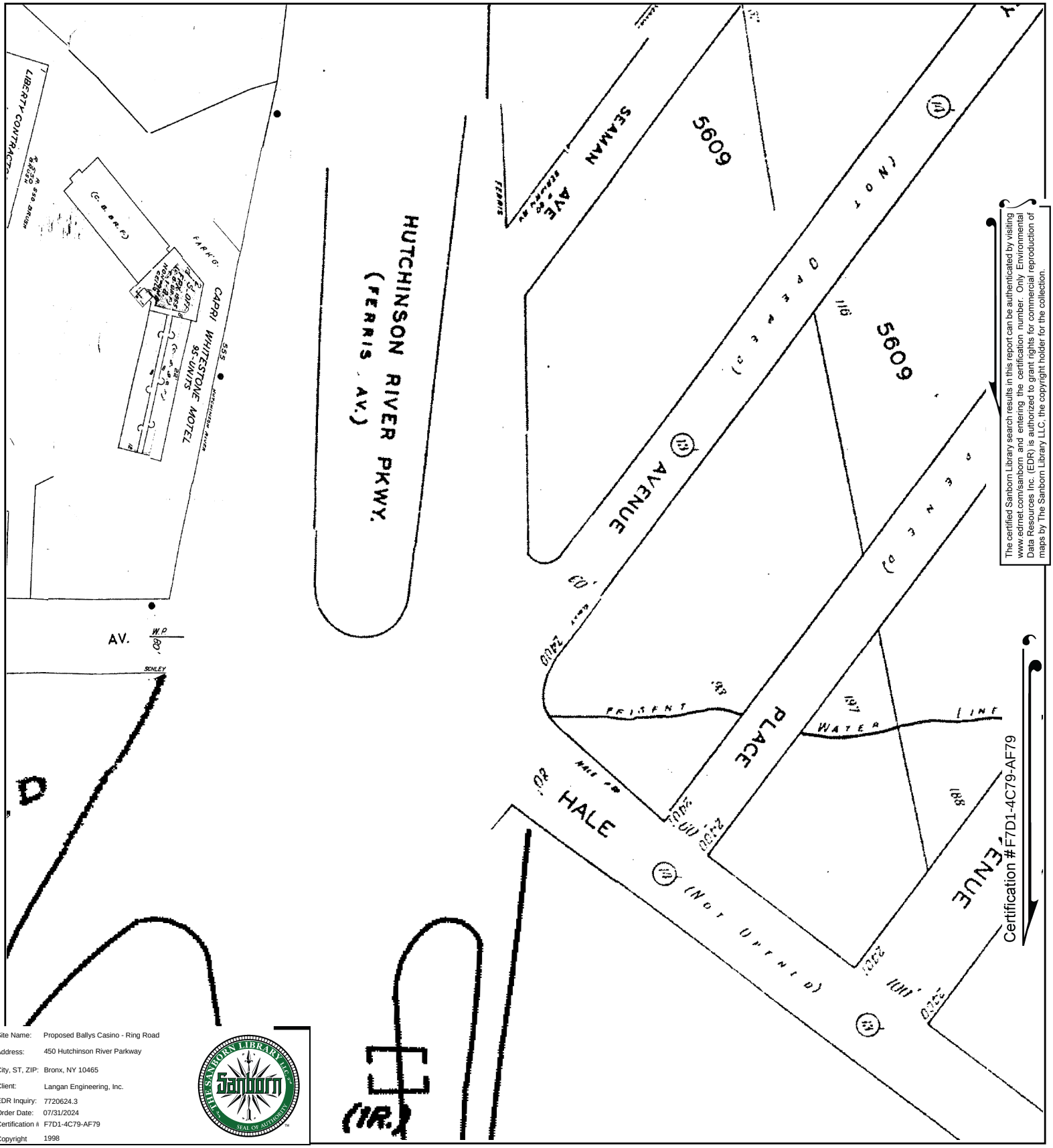

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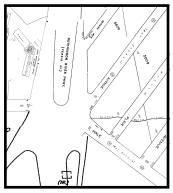

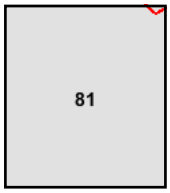

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1996

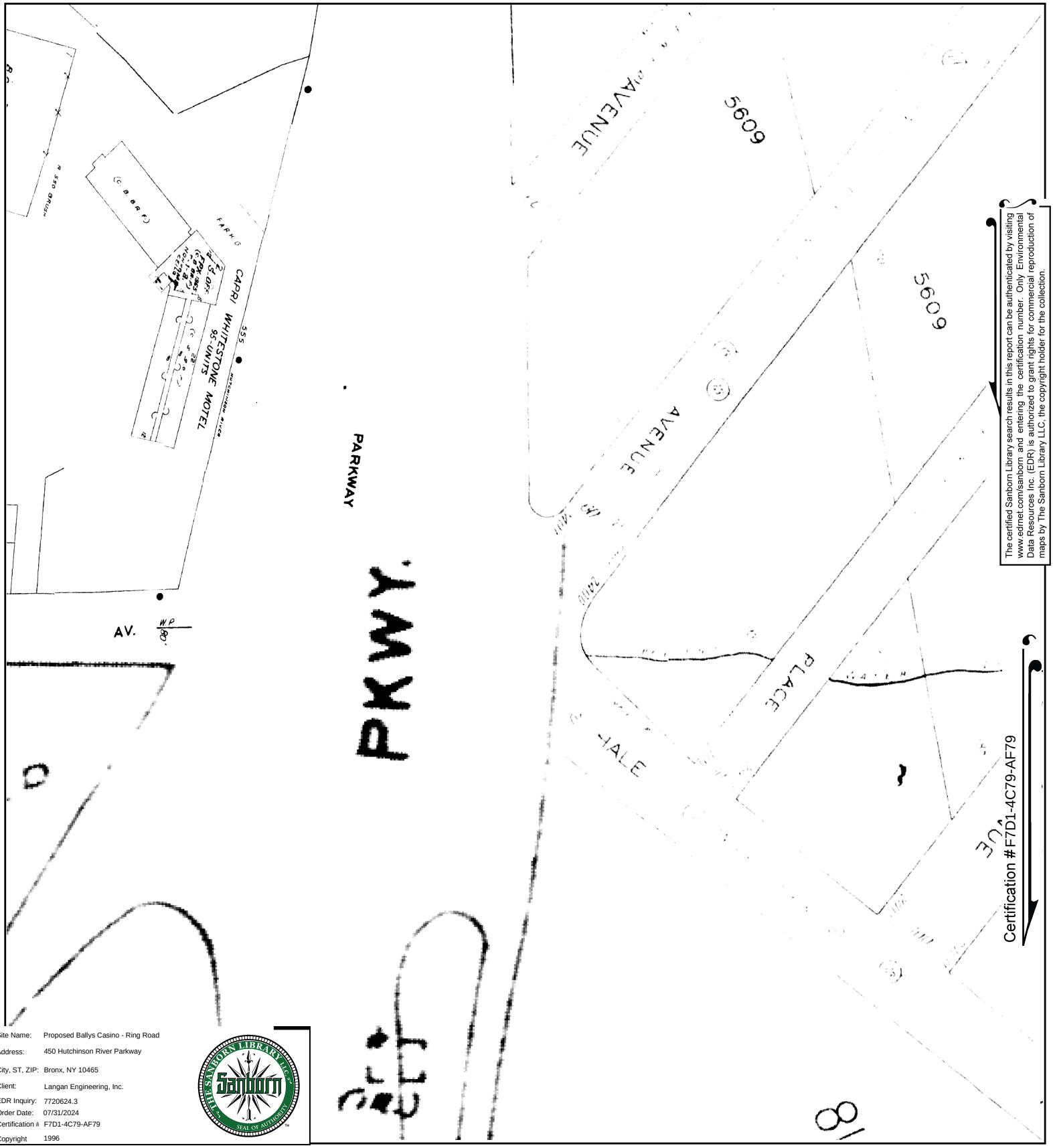

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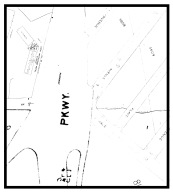

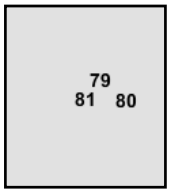

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1995

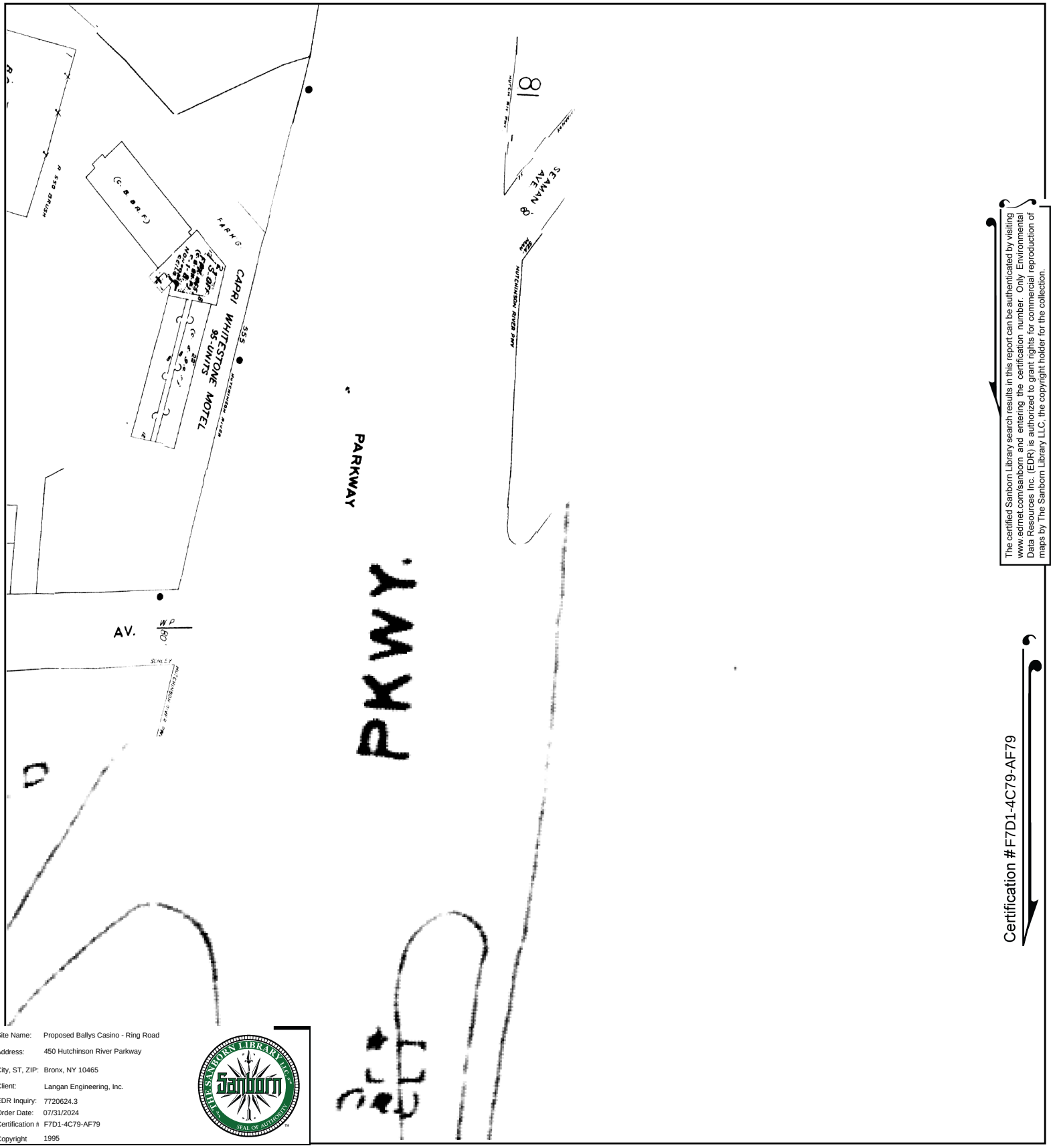

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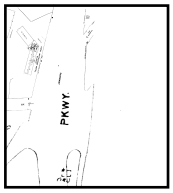

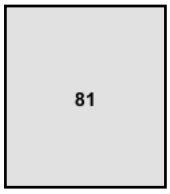

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1993

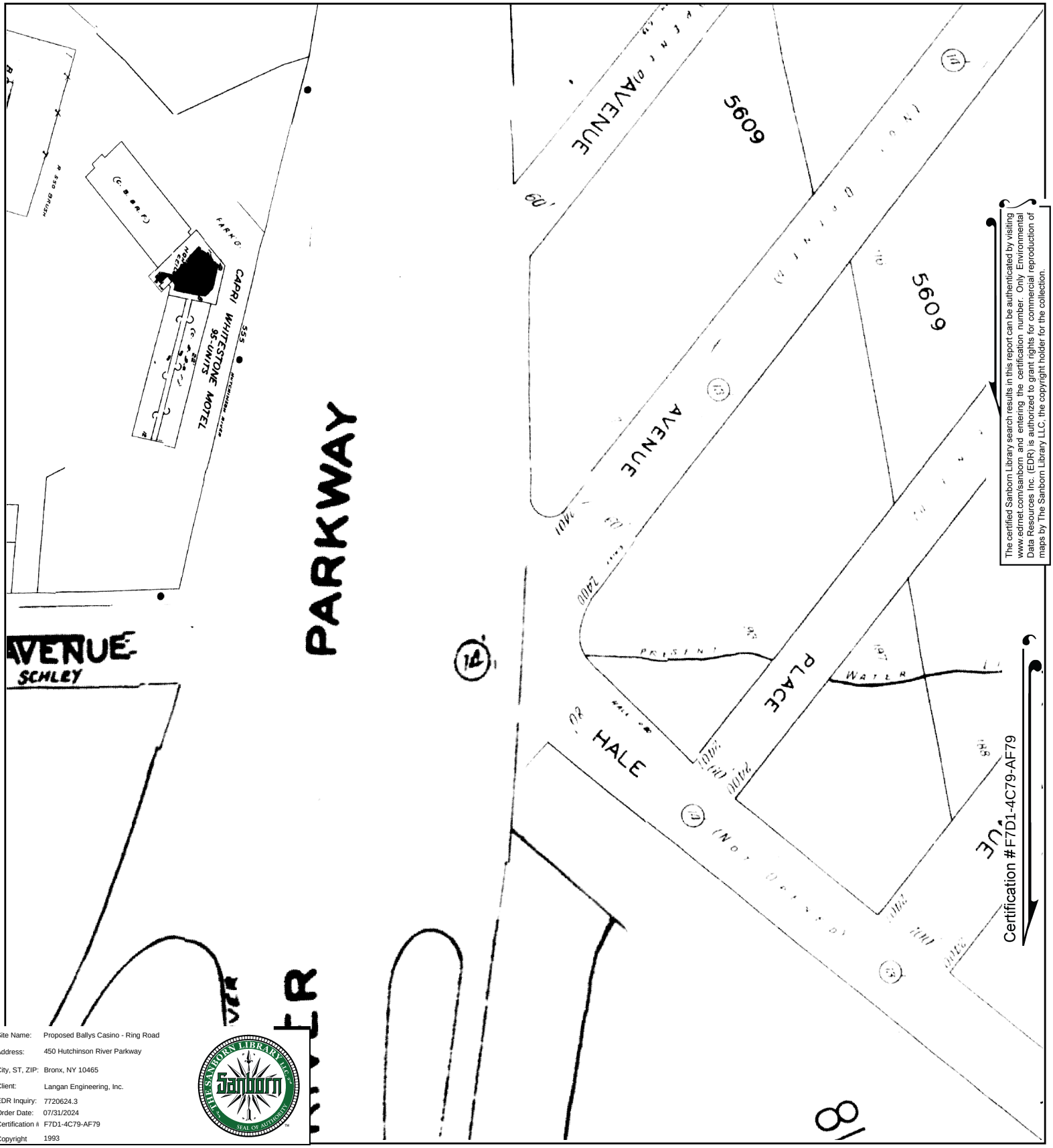

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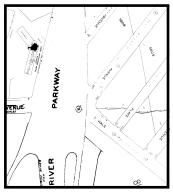

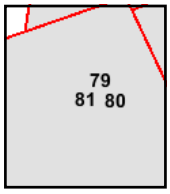

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1992

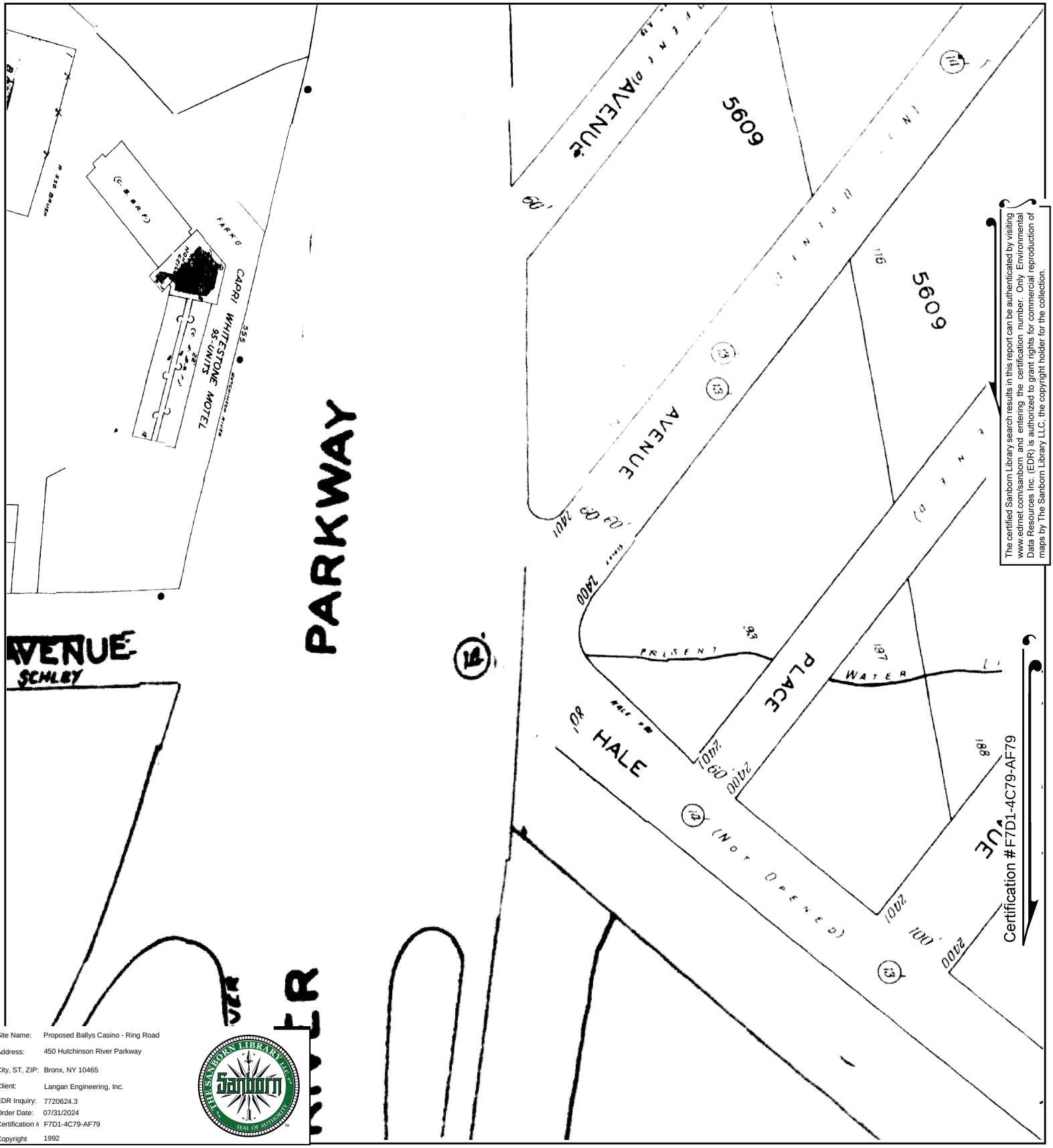

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Certification #	F7D1-4C79-AF79
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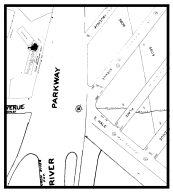

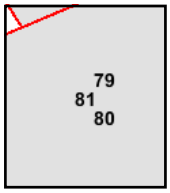

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1991

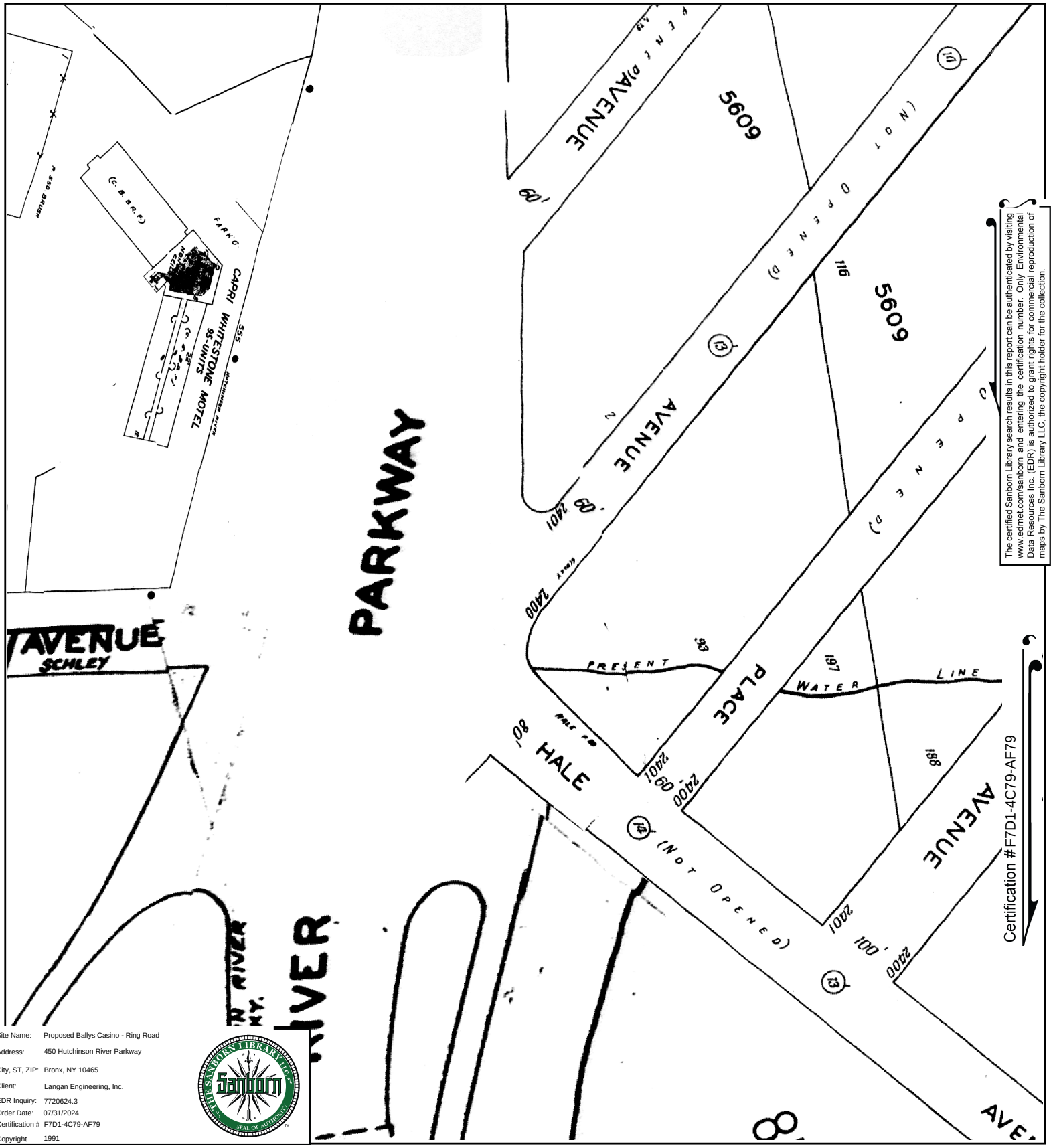

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Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1991

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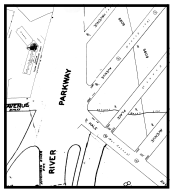

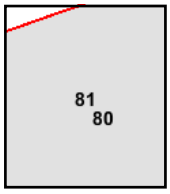

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1988

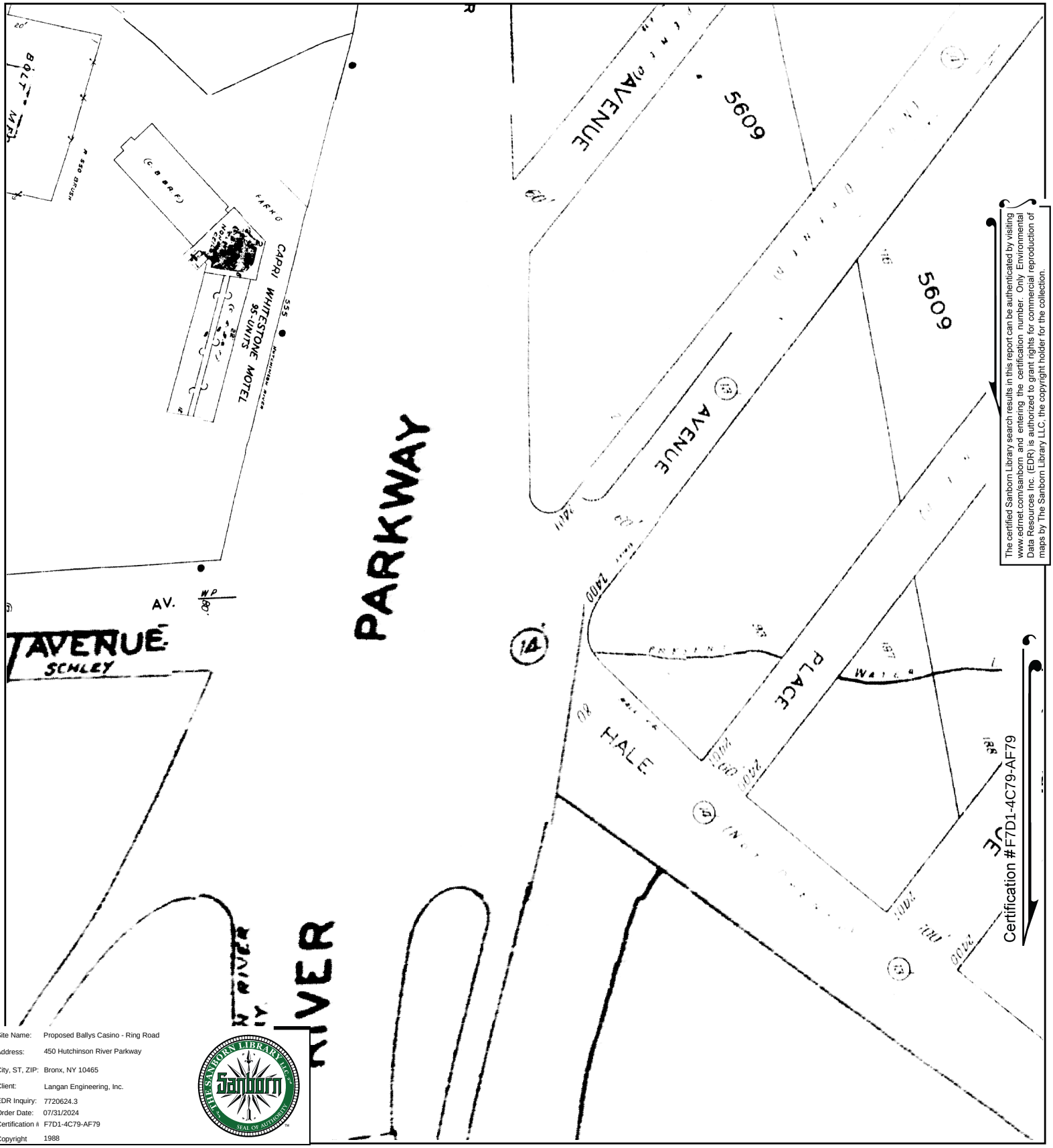

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Certification #	F7D1-4C79-AF79
Copyright	1988

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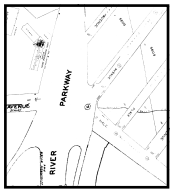

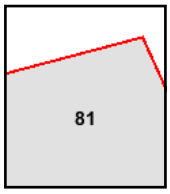

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1986

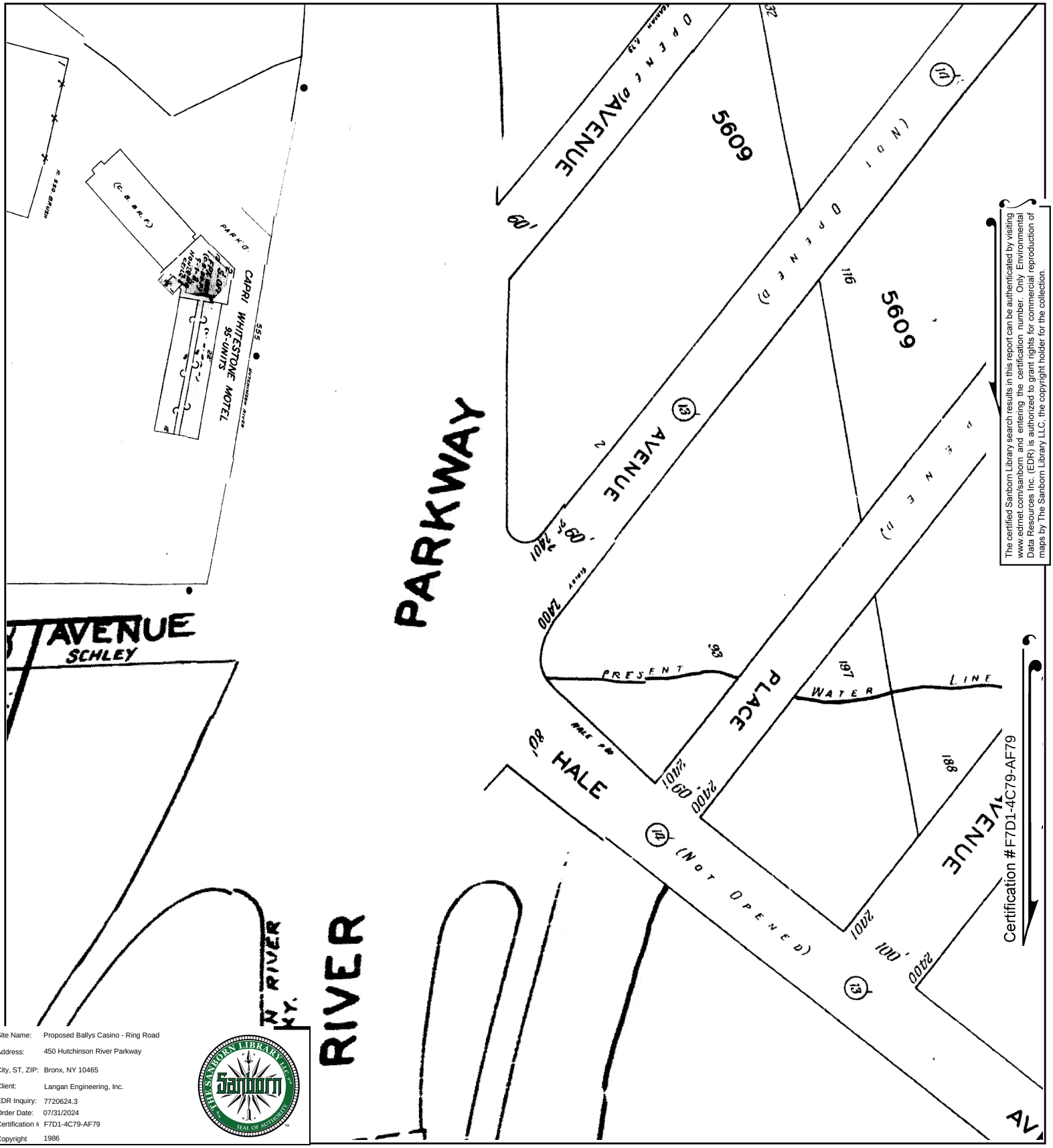

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Copyright	1986

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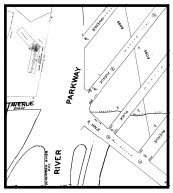

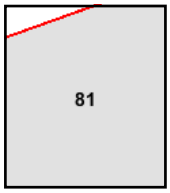

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1983

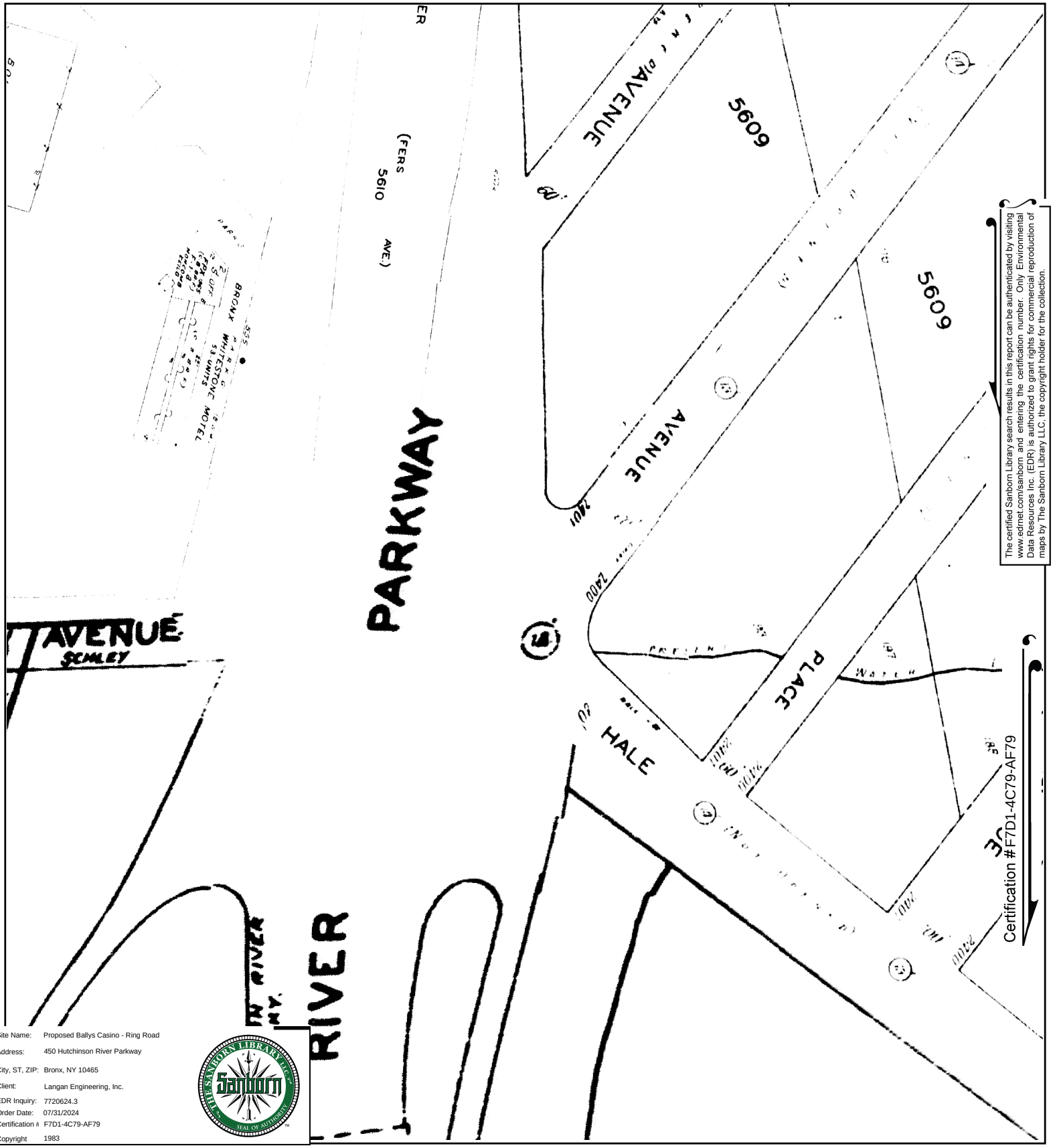

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Certification #	F7D1-4C79-AF79
Copyright	1983

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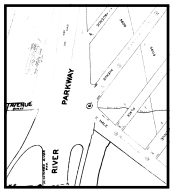

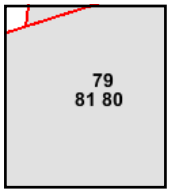

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1981

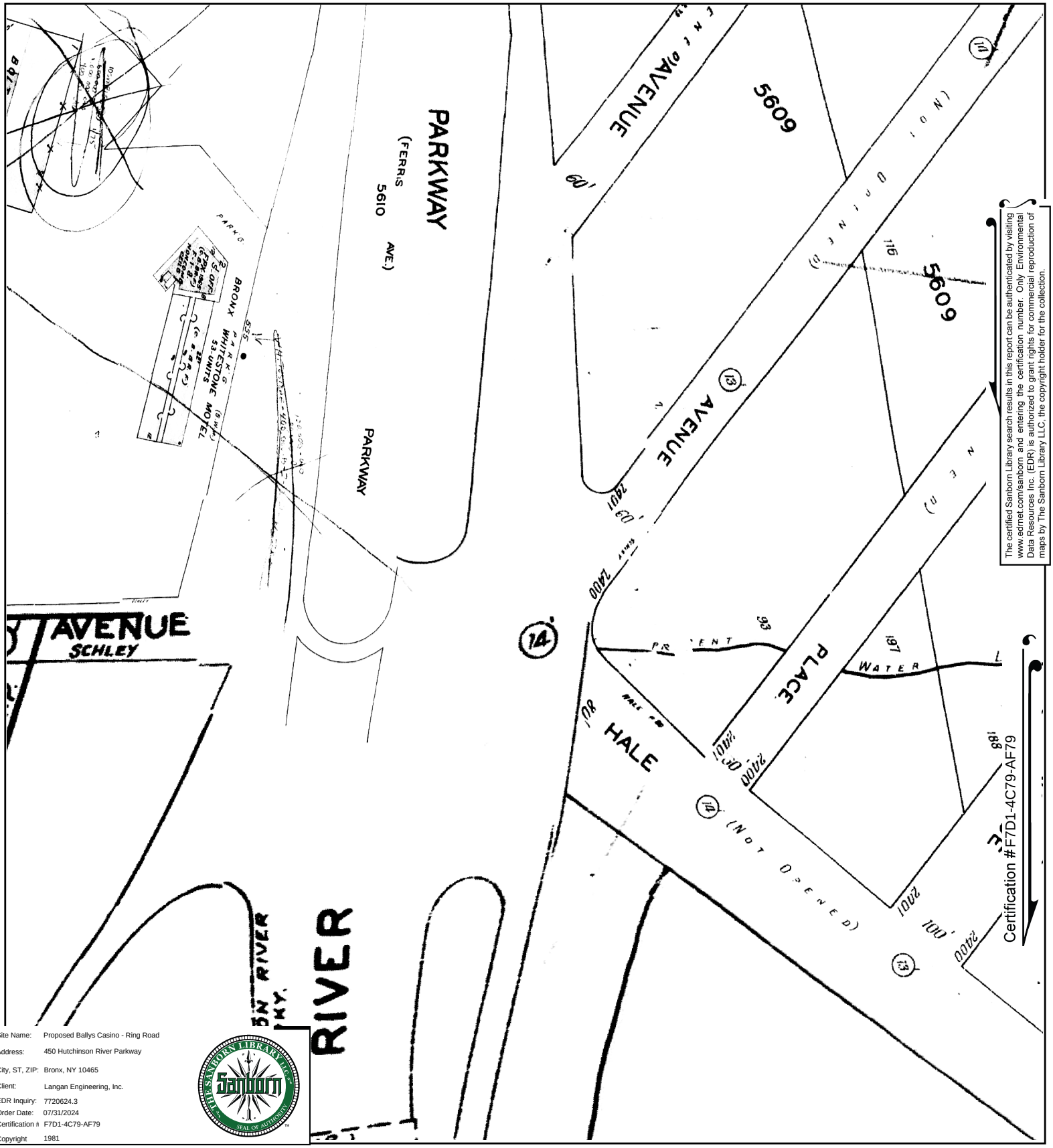

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Copyright	1981

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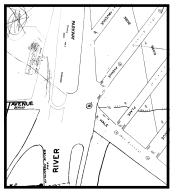

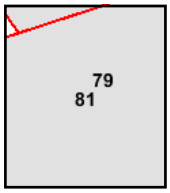

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1978

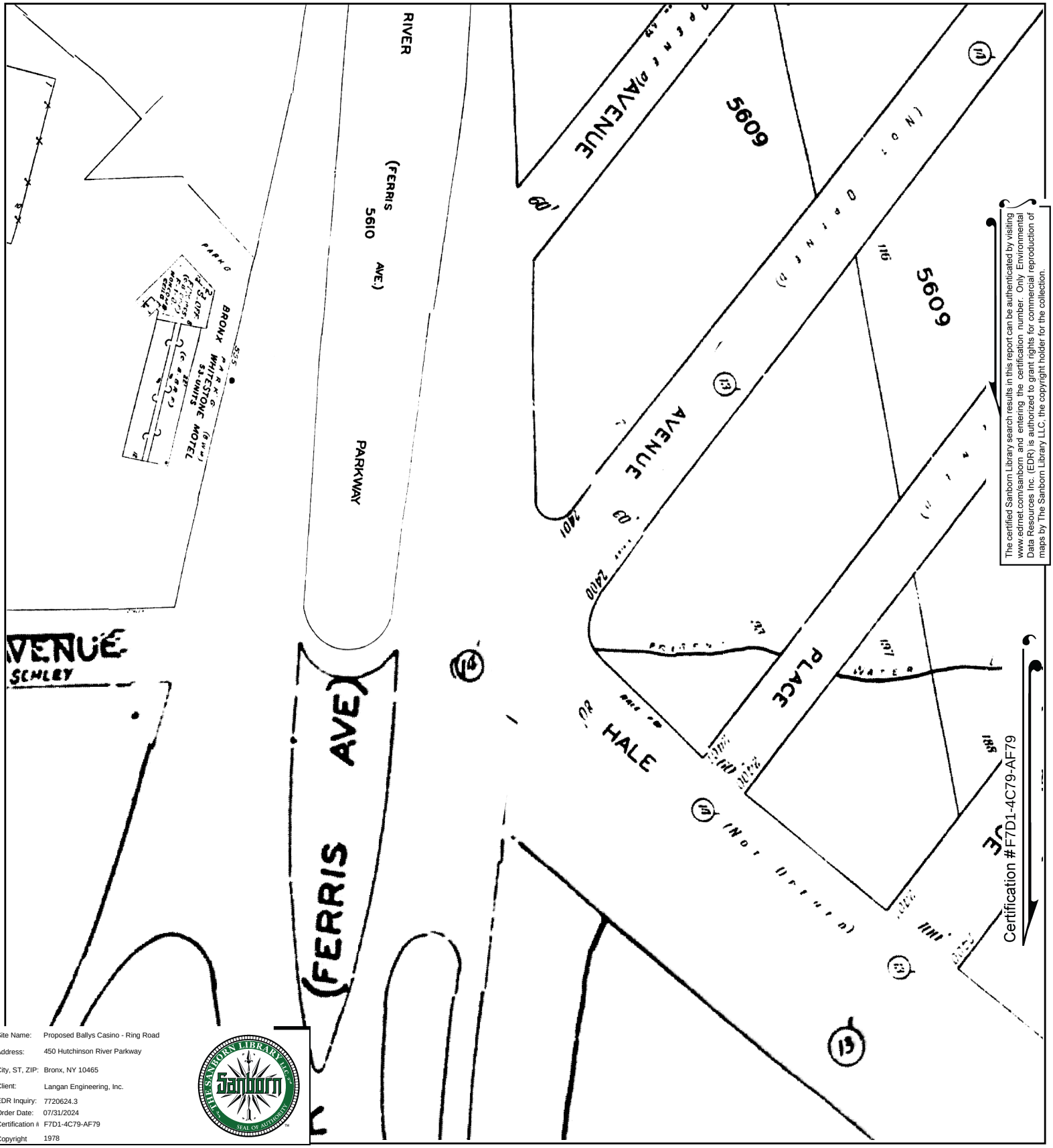

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Copyright	1978

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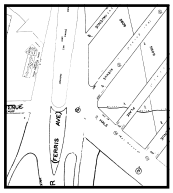

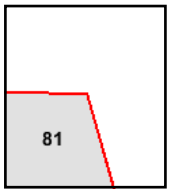

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1977

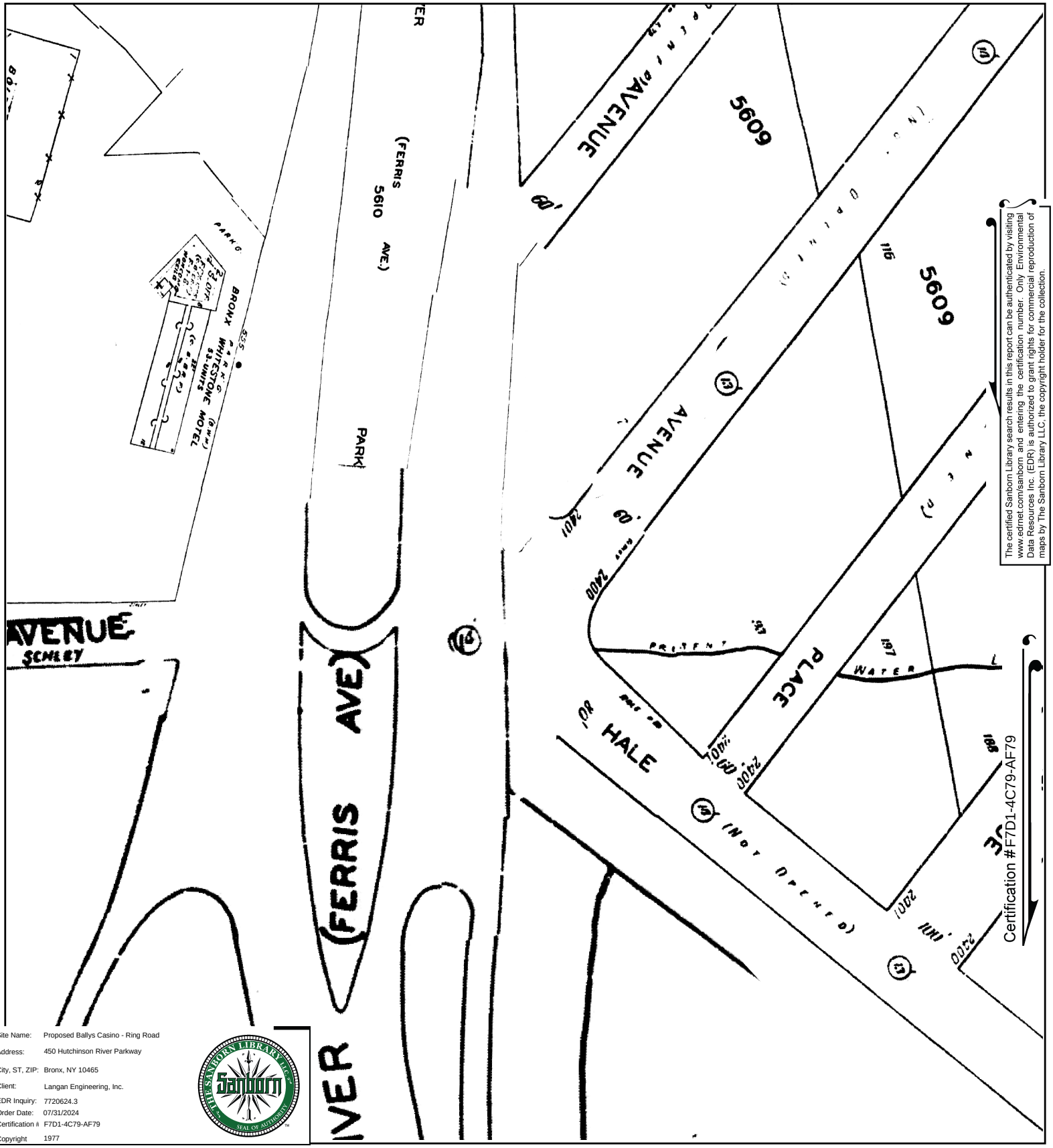

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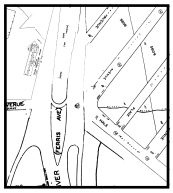

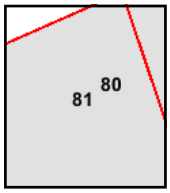

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N

Certified Sanborn® Map

1967

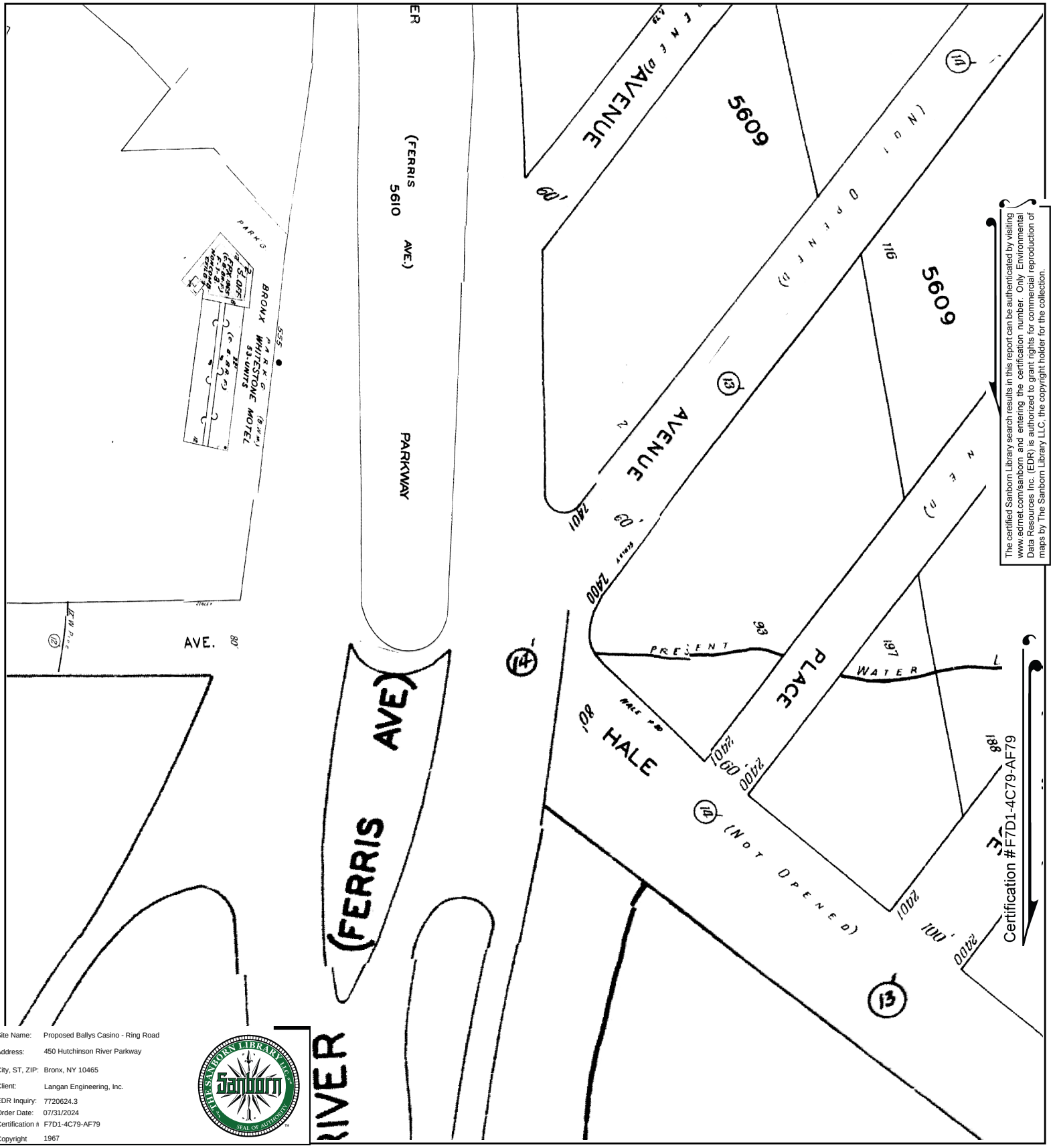

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1967

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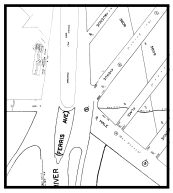

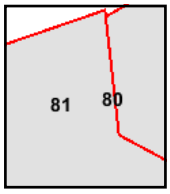

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N

Certified Sanborn® Map

1950

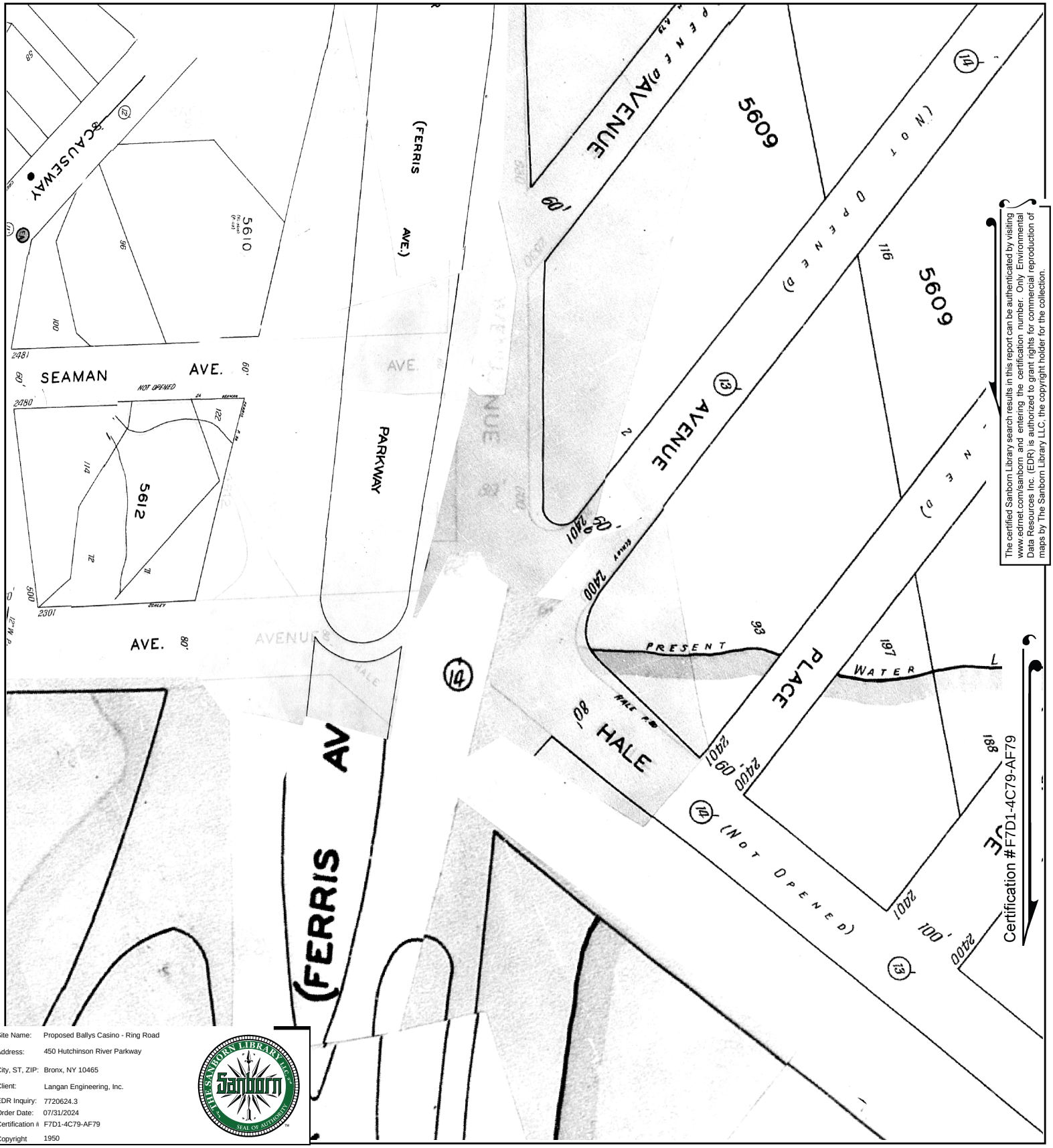

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Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1950

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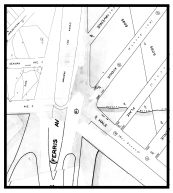

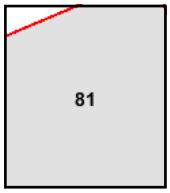

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N

Certified Sanborn® Map

1930

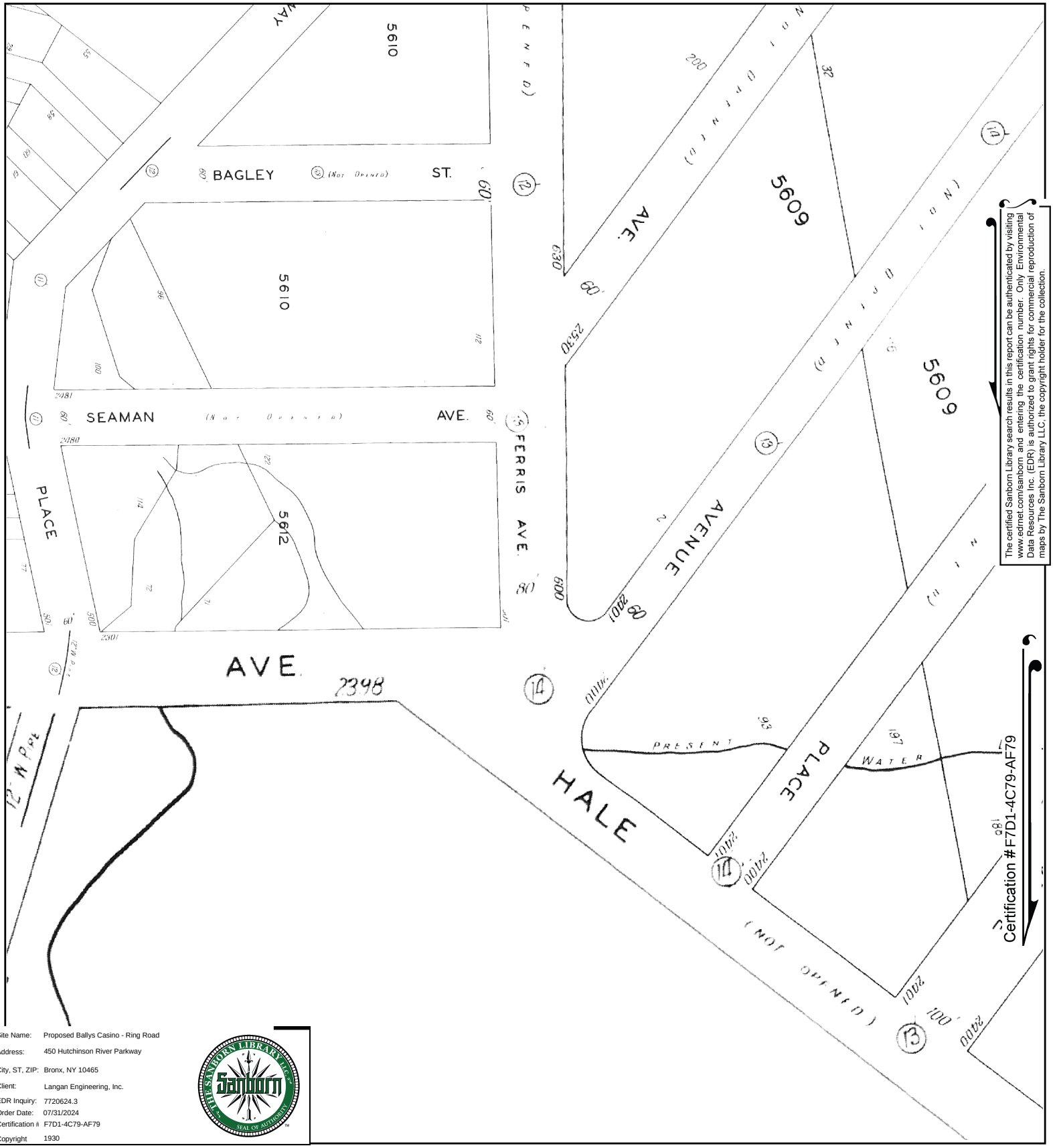

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1930

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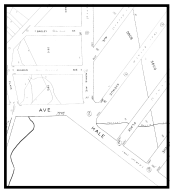

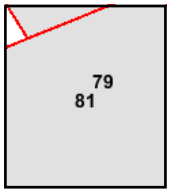

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0 Feet 150 300 600

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Certified Sanborn® Map

1919

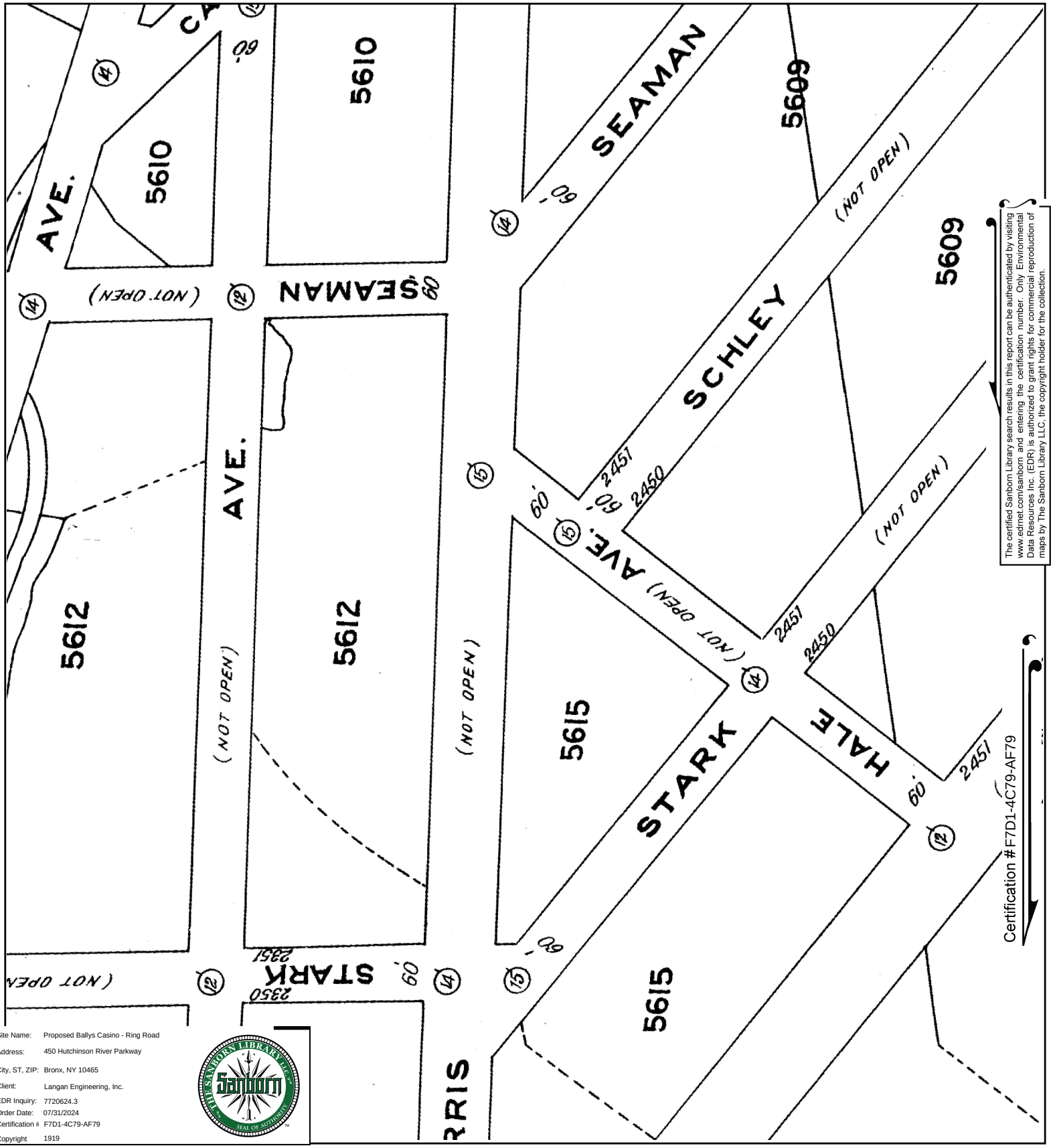

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Certification # F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1919

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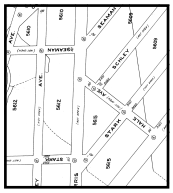

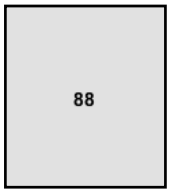

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N

Certified Sanborn® Map

1908

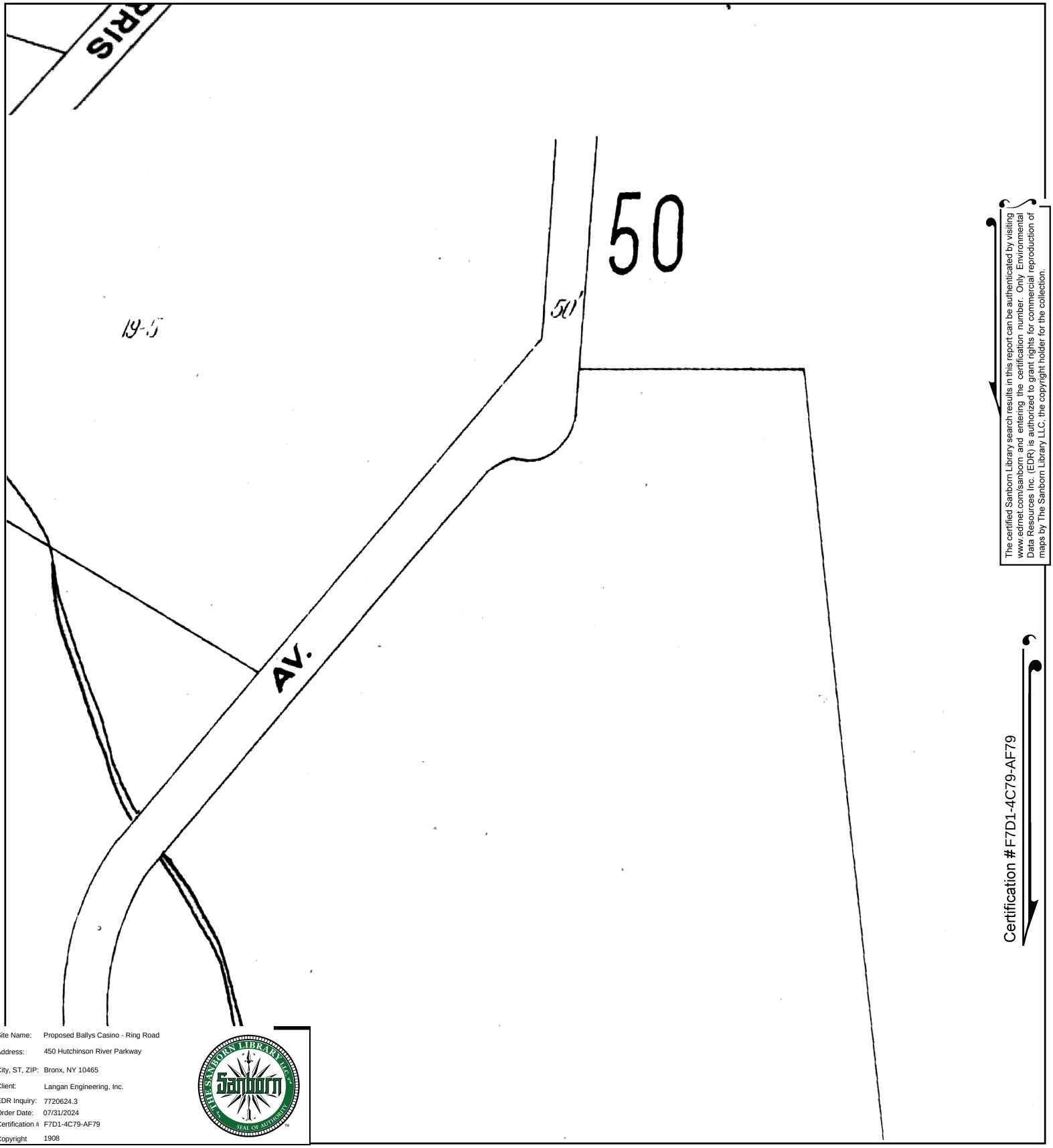

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Certification #F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1908

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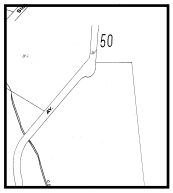

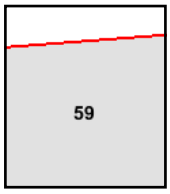

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N

Certified Sanborn® Map

1898

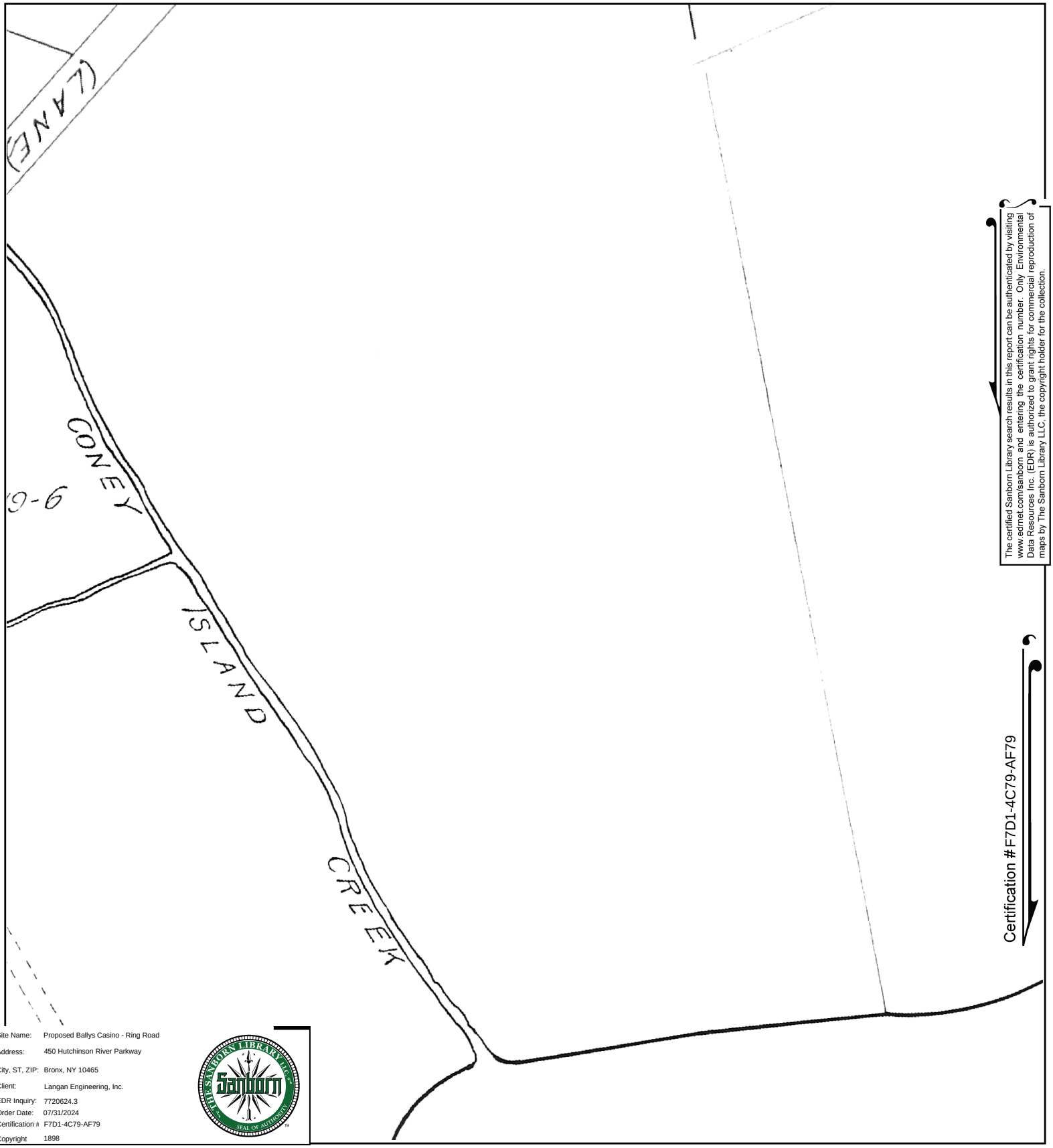

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1898

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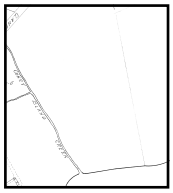

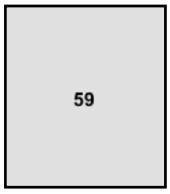

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N

Proposed Ballys Casino - Ring Road

450 Hutchinson River Parkway

Bronx, NY 10465

Inquiry Number: 7720624.3

July 31, 2024

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

07/31/24

Site Name:	Client Name:
Proposed Ballys Casino - Ring	Langan Engineering, Inc.
450 Hutchinson River Parkway	360 W. 31st Street
Bronx, NY 10465	New York, NY 10001
EDR Inquiry # 7720624.3	Contact: Kaitlyn Gioia

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Certified Sanborn Results:

Certification # F7D1-4C79-AF79

PO # 170773001

Project Prpsd Bally s Casino - Ring Rd

Maps Provided:

2007	1996	1981	1898
2006	1995	1978	
2005	1993	1977	
2004	1992	1967	
2003	1991	1950	
2002	1988	1930	
2001	1986	1919	
1998	1983	1908	

Sanborn® Library search results

Certification #: F7D1-4C79-AF79

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- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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2007 Source Sheets

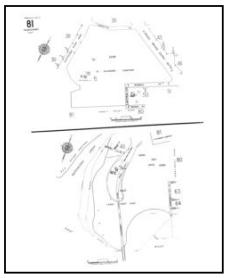

Volume 21, Sheet 81
2007

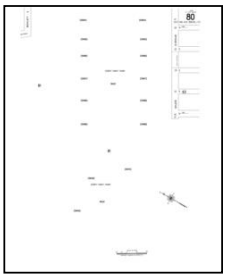

Volume 21, Sheet 80
2007

2006 Source Sheets

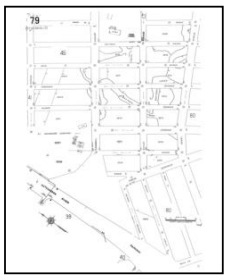

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2006

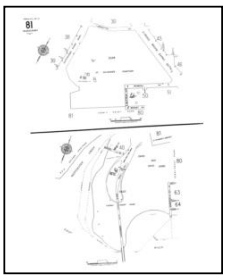

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2006

2005 Source Sheets

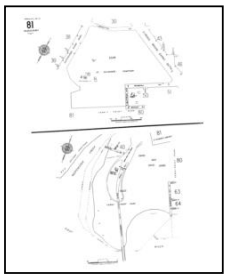

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2005

2004 Source Sheets

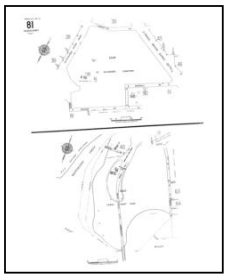

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2004

Sanborn Sheet Key

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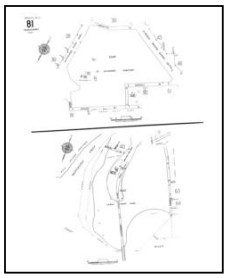

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2003

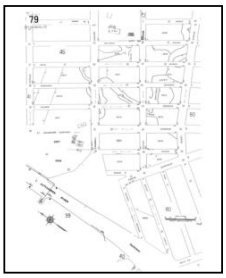

Volume 21, Sheet 79
2003

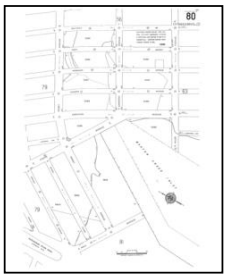

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2003

2002 Source Sheets

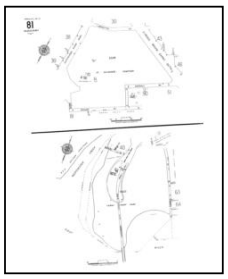

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2002

2001 Source Sheets

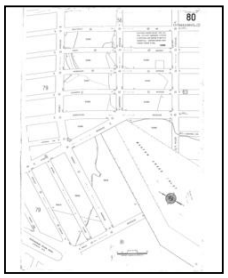

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2001

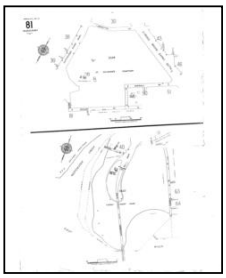

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2001

1998 Source Sheets

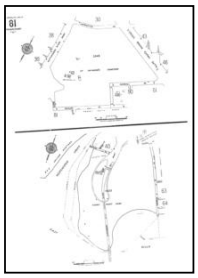

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1998

Sanborn Sheet Key

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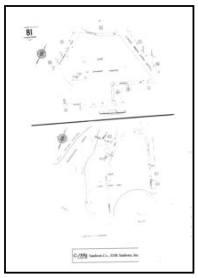

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1996

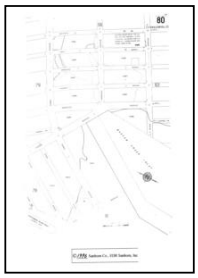

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1996

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1996

1995 Source Sheets

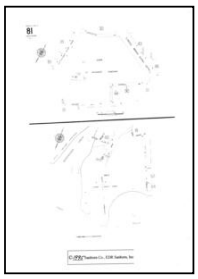

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1995

1993 Source Sheets

Volume 21, Sheet 81
1993

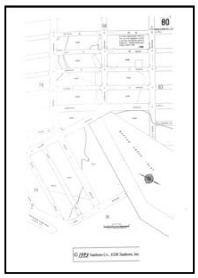

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1993

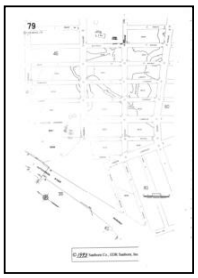

Volume 21, Sheet 79
1993

1992 Source Sheets

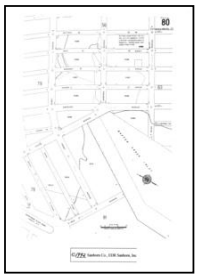

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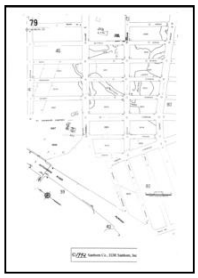

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1992

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1992

Sanborn Sheet Key

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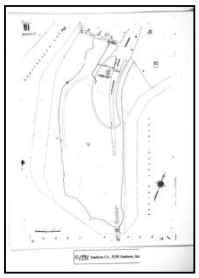

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1991

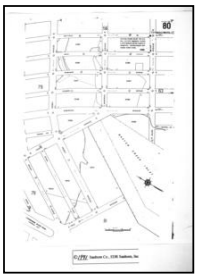

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1988 Source Sheets

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1988

1986 Source Sheets

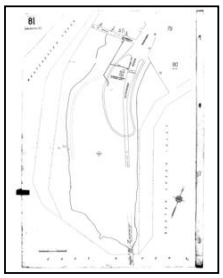

Volume 21, Sheet 81
1986

1983 Source Sheets

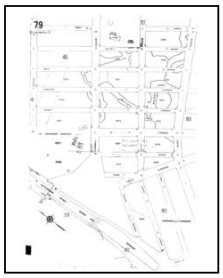

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1983

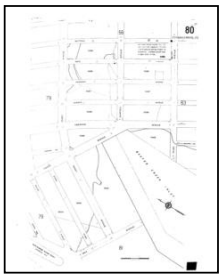

Volume 21, Sheet 80
1983

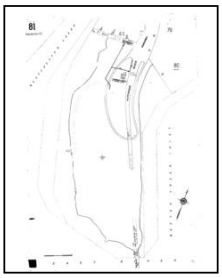

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1983

Sanborn Sheet Key

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1981 Source Sheets

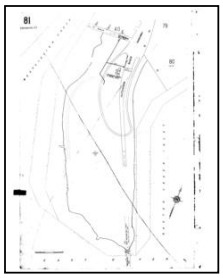

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1981

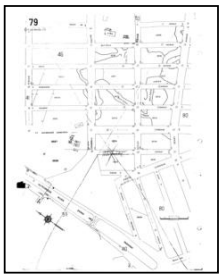

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1981

1978 Source Sheets

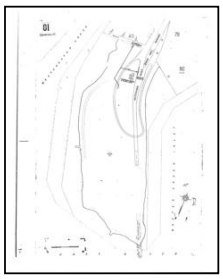

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1978

1977 Source Sheets

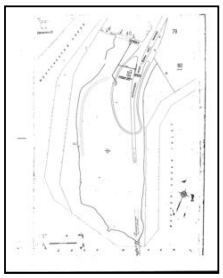

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1977

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1977

1967 Source Sheets

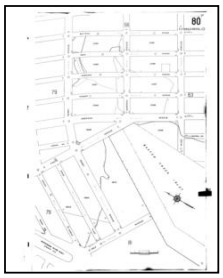

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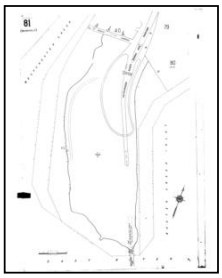

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1967

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1950 Source Sheets

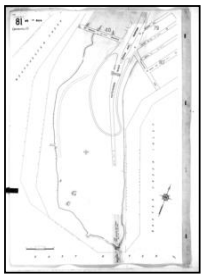

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1950

1930 Source Sheets

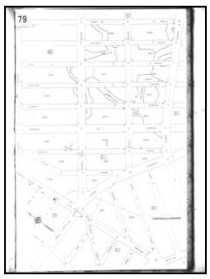

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1930

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1930

1919 Source Sheets

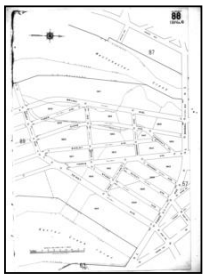

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1919

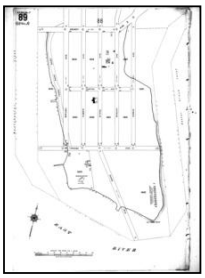

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1908 Source Sheets

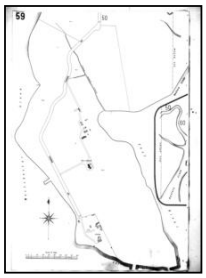

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1908

Sanborn Sheet Key

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1898 Source Sheets

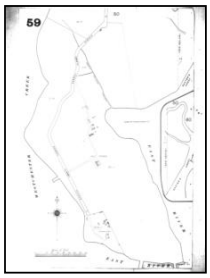

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1898

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2007

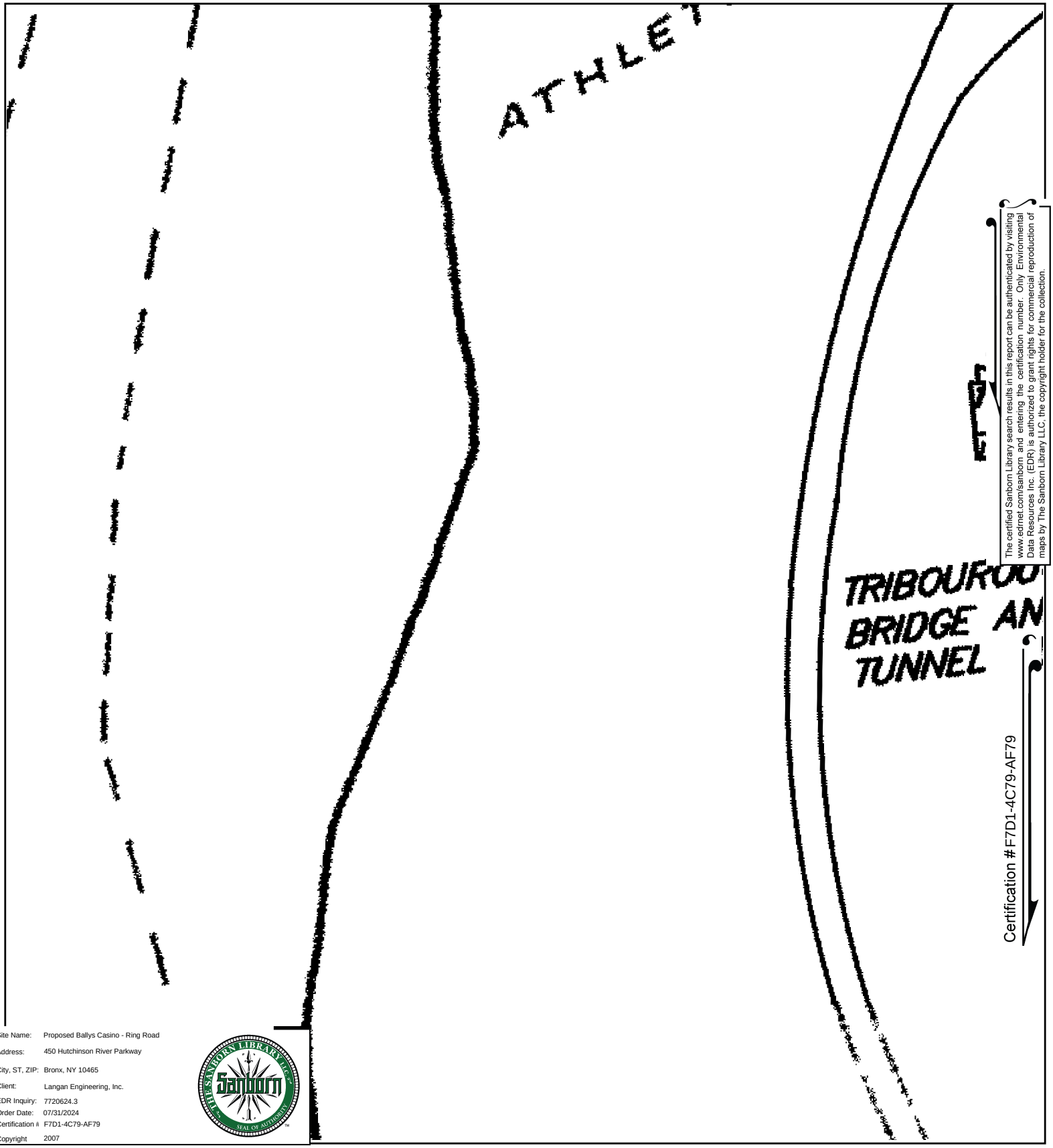

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Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	2007

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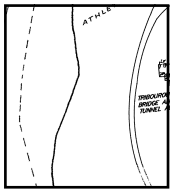

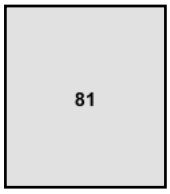

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N

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2006

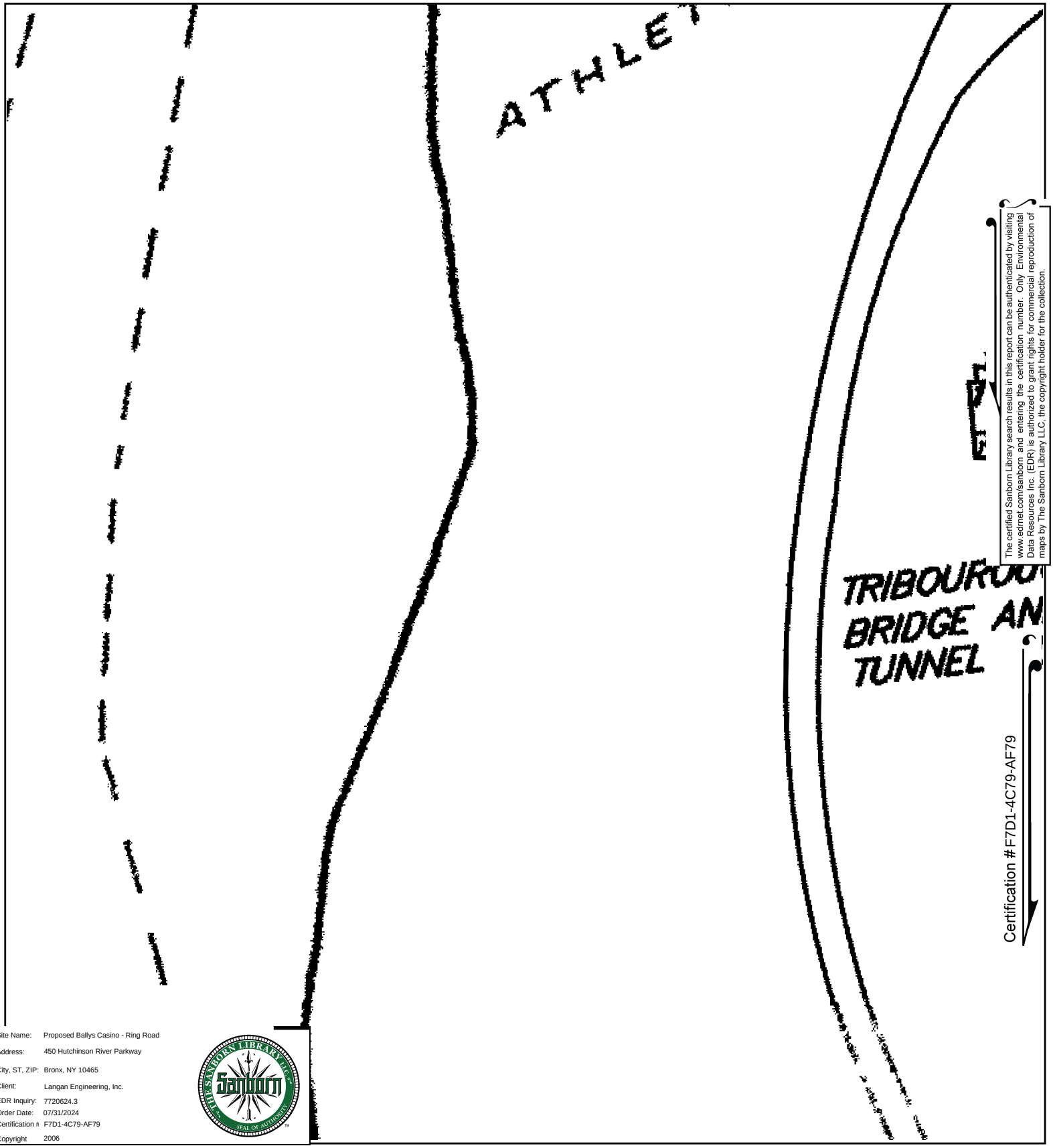

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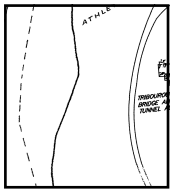

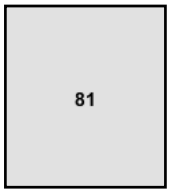

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N

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2005

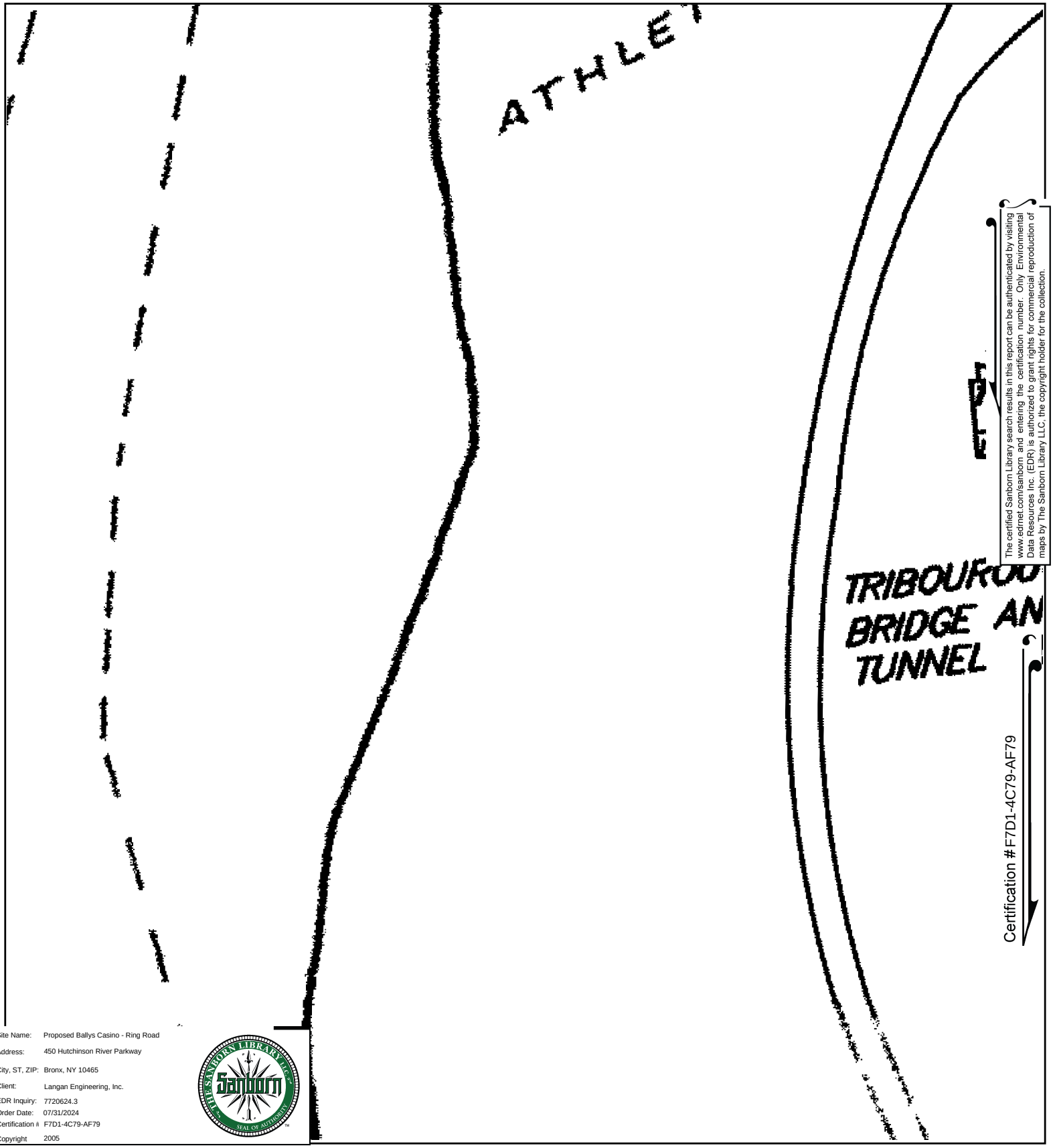

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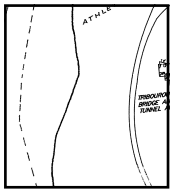

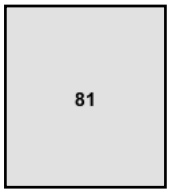

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N

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2004

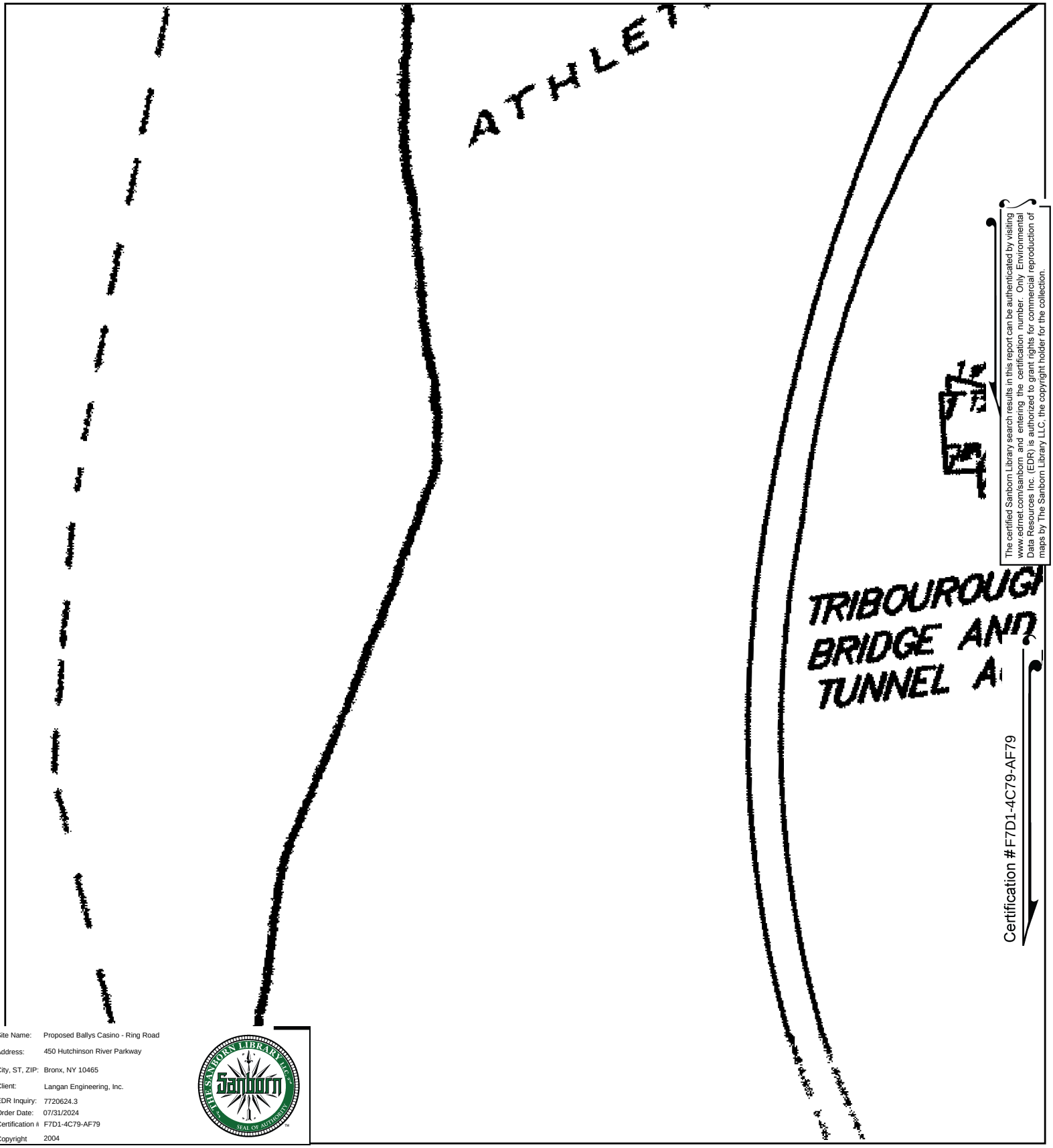

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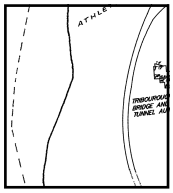

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2003

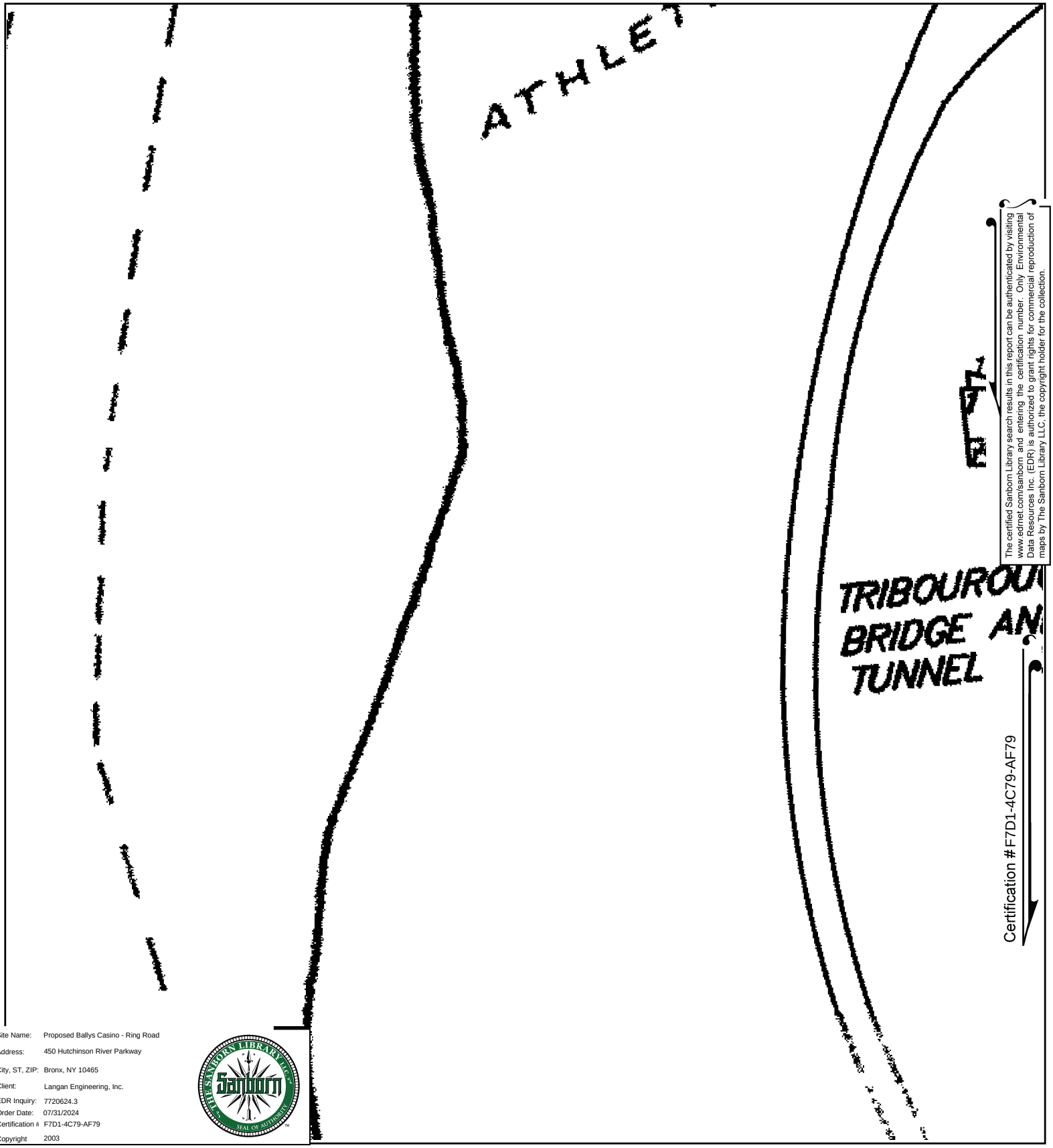

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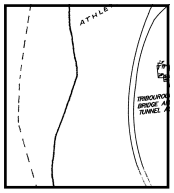

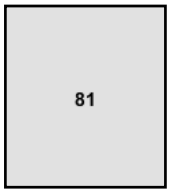

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2002

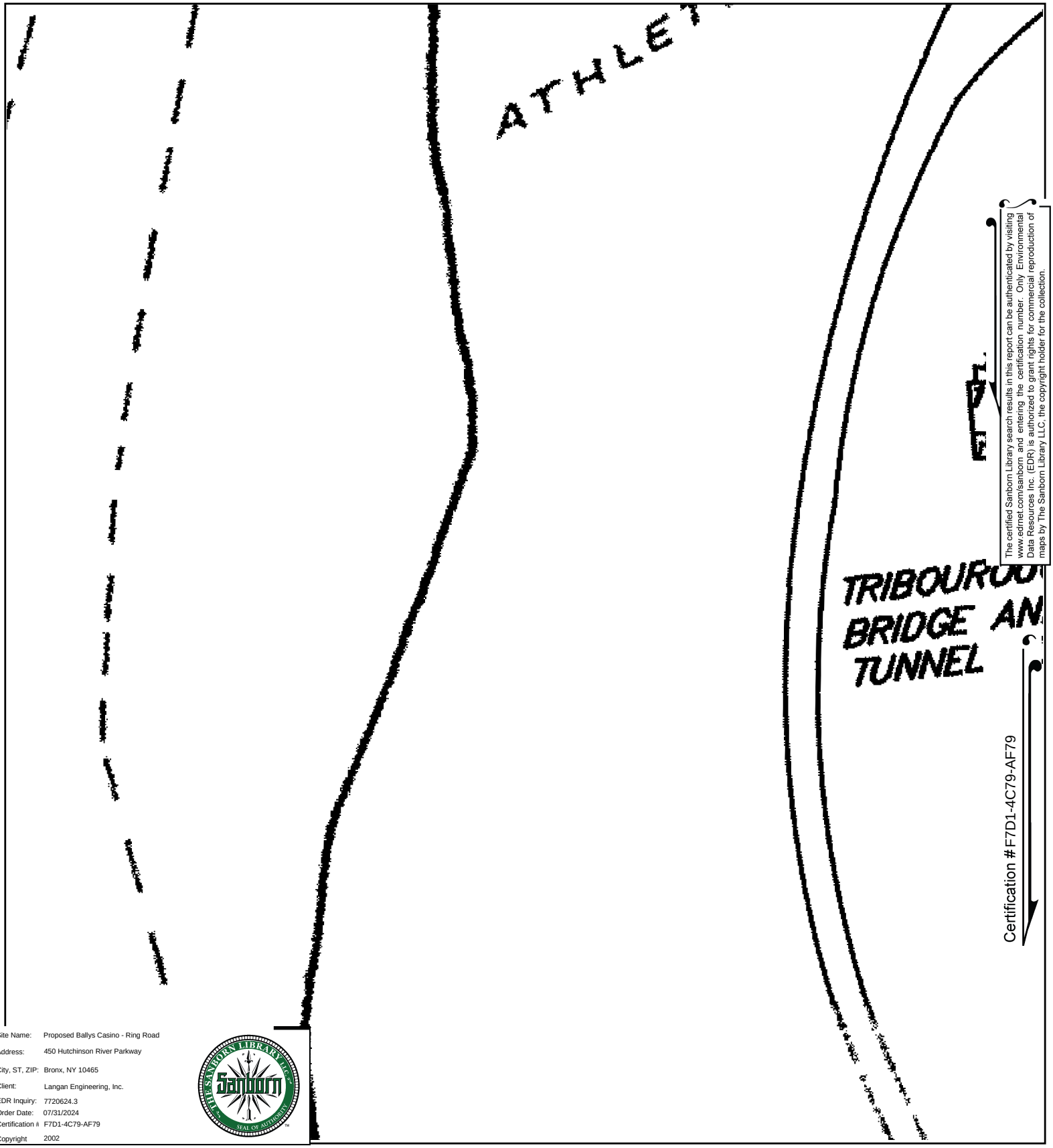

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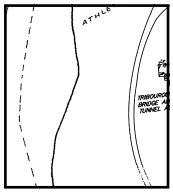

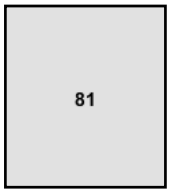

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2001

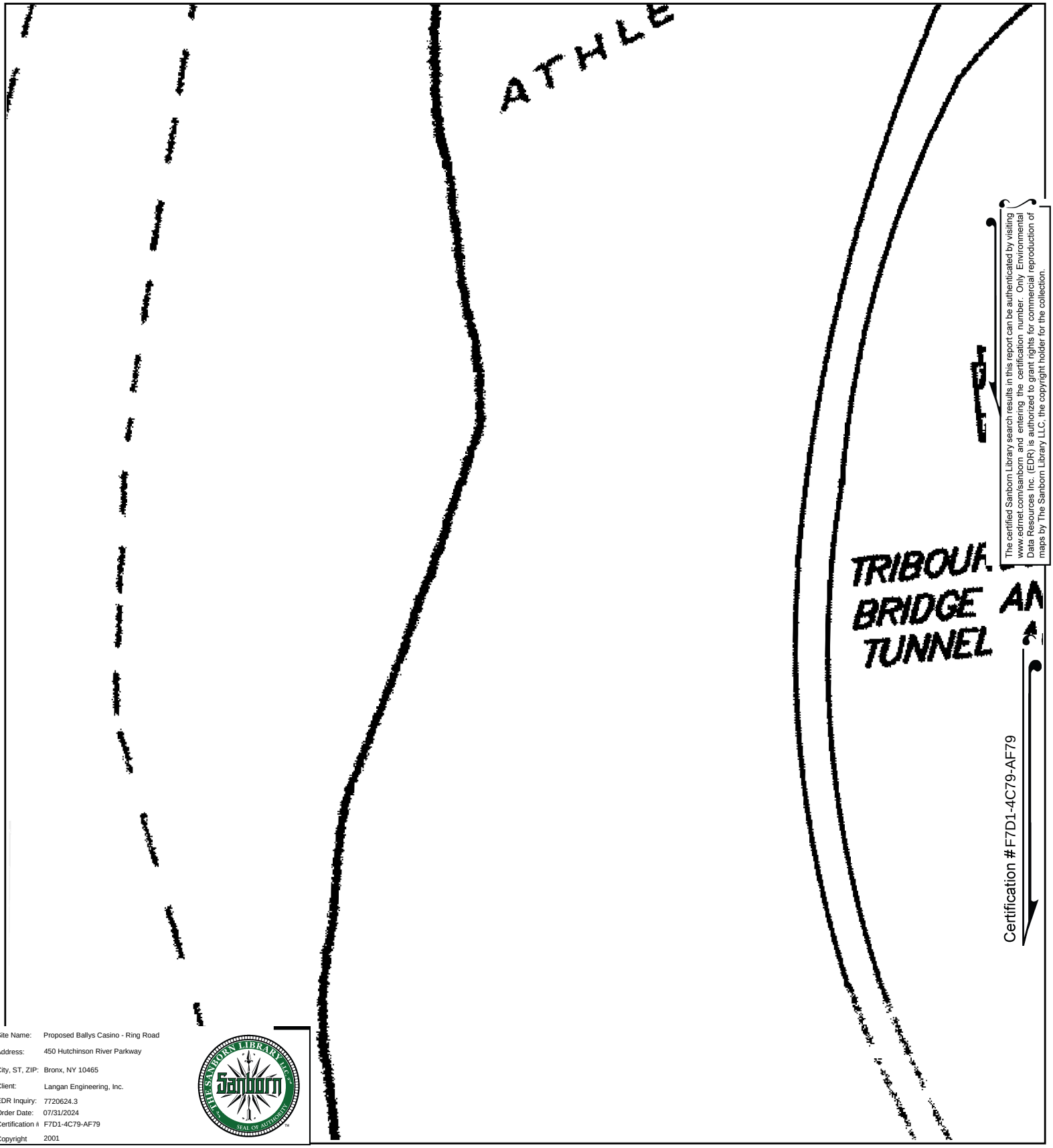

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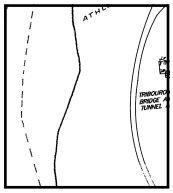

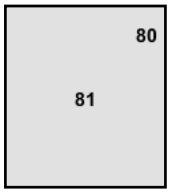

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N

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1998

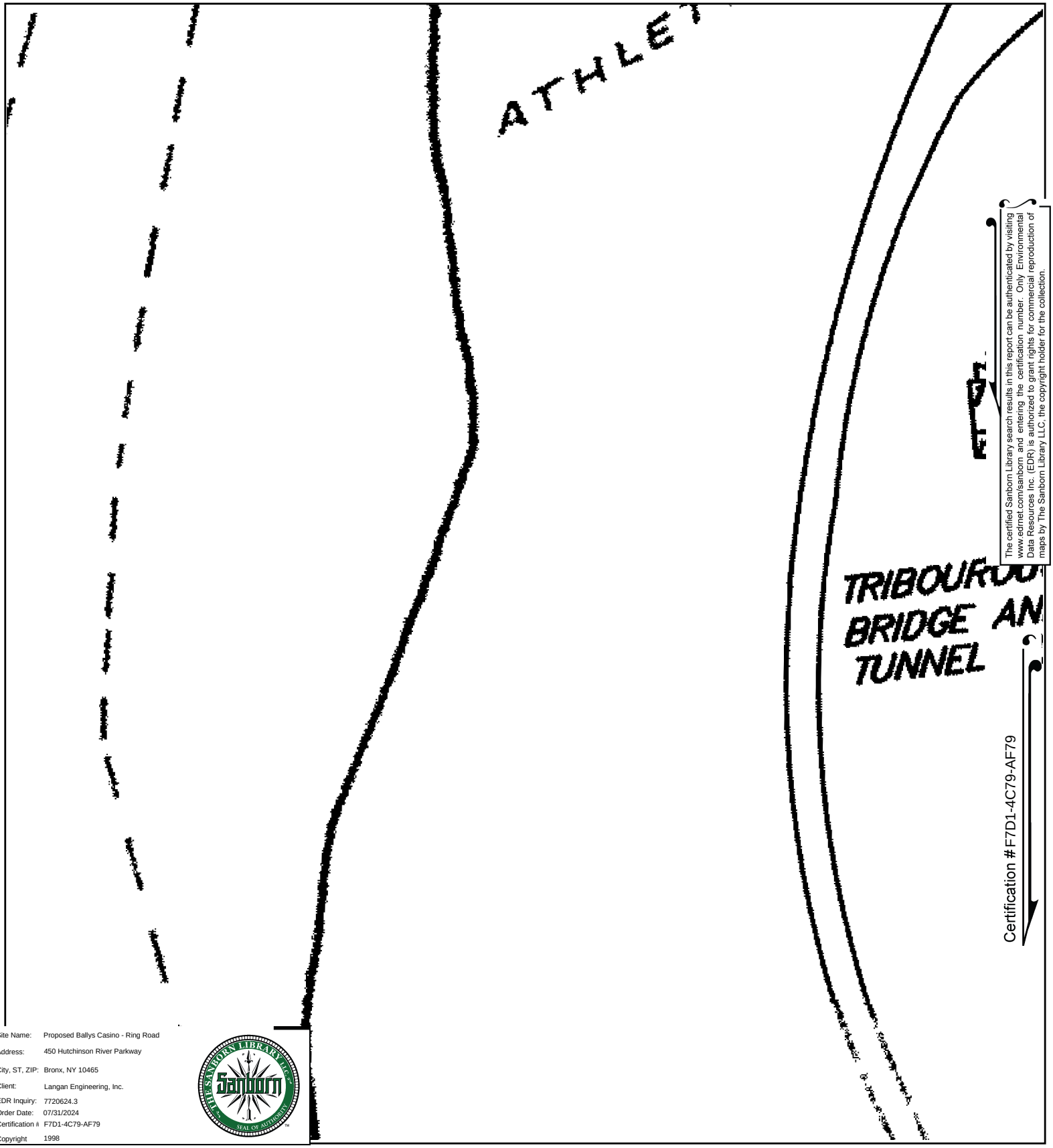

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Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1998

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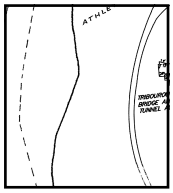

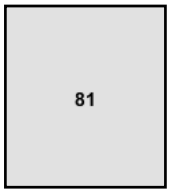

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1996

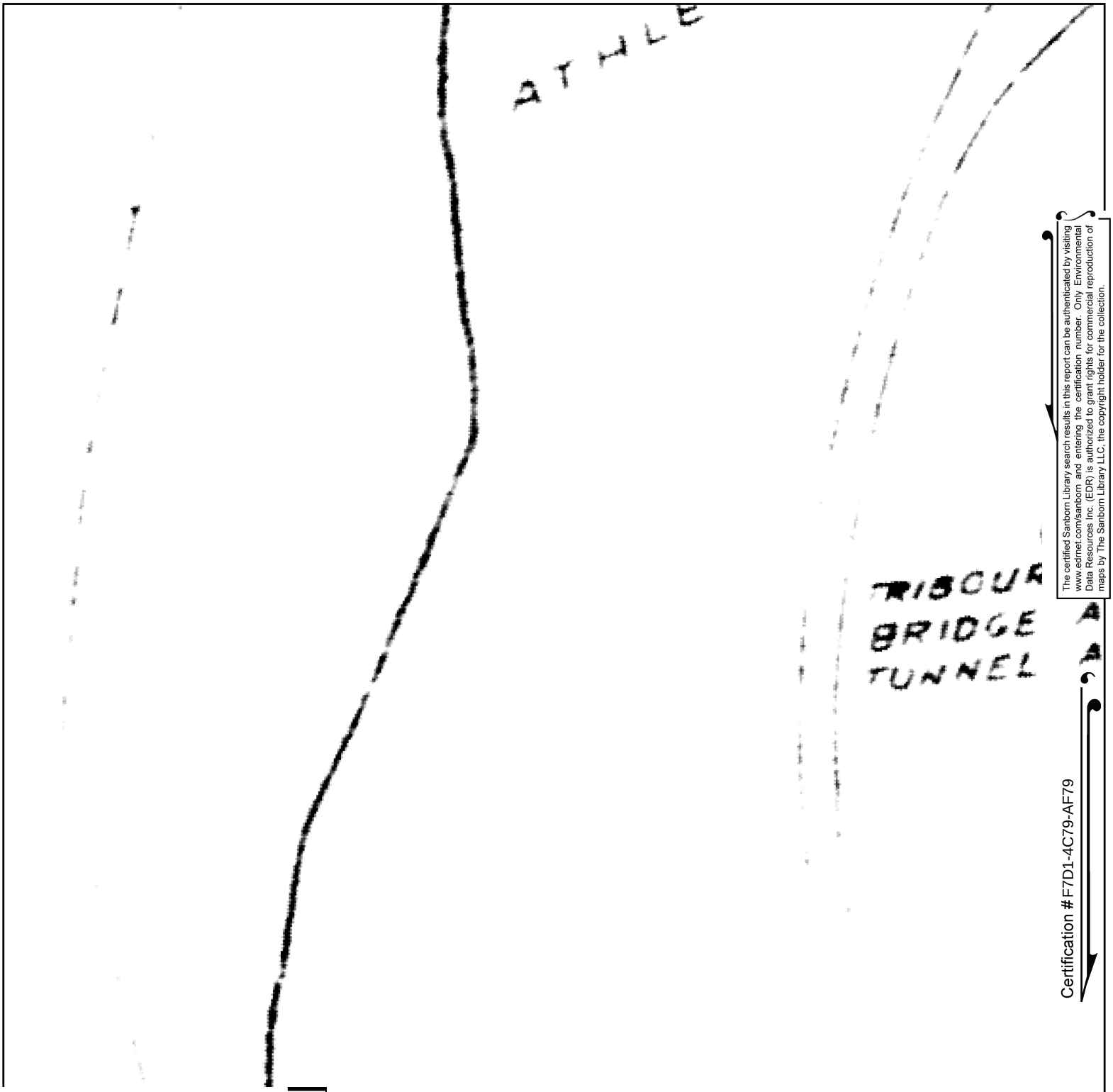

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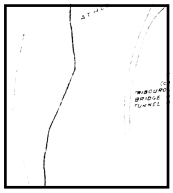

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1995

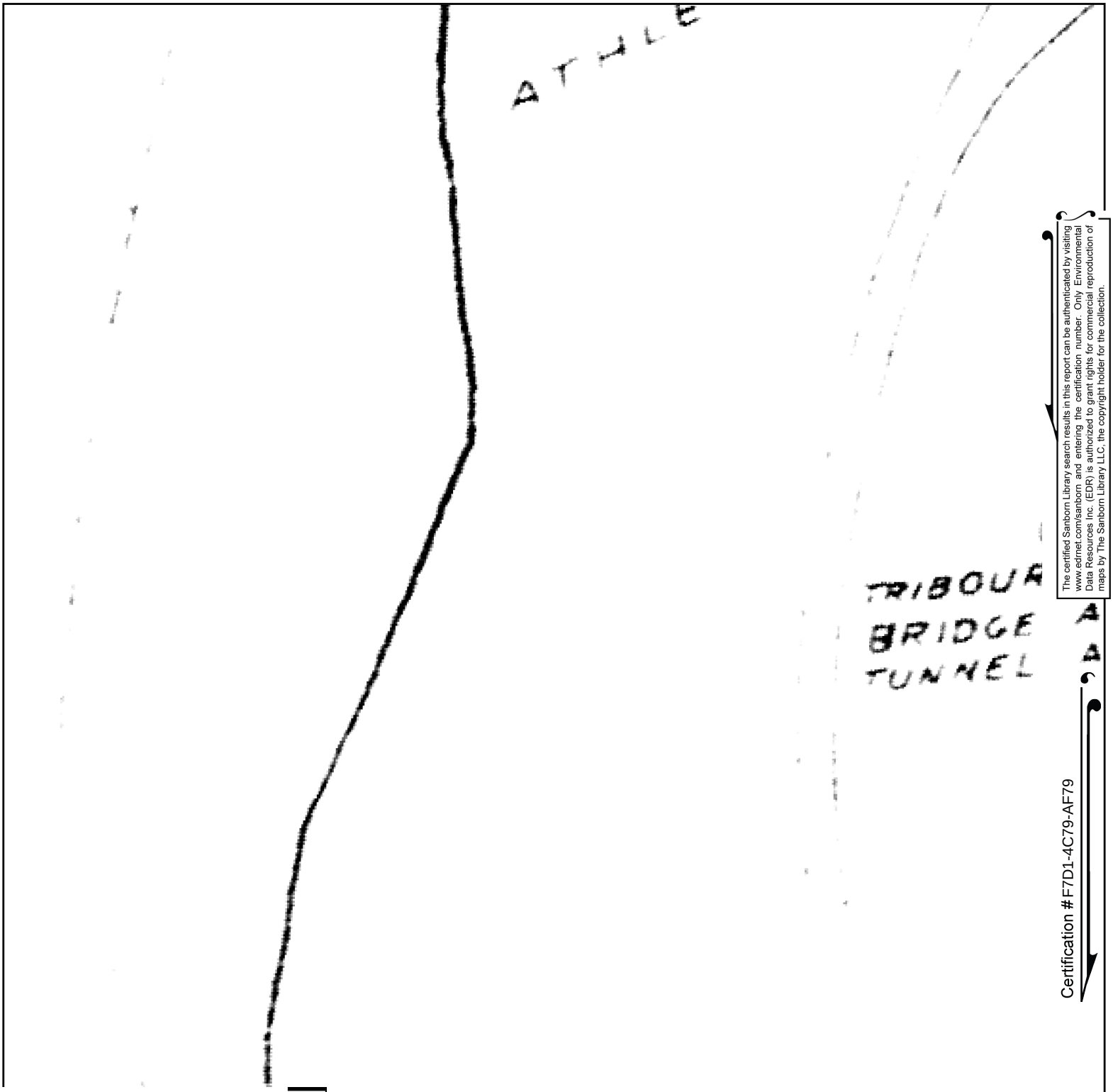

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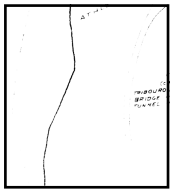

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1993

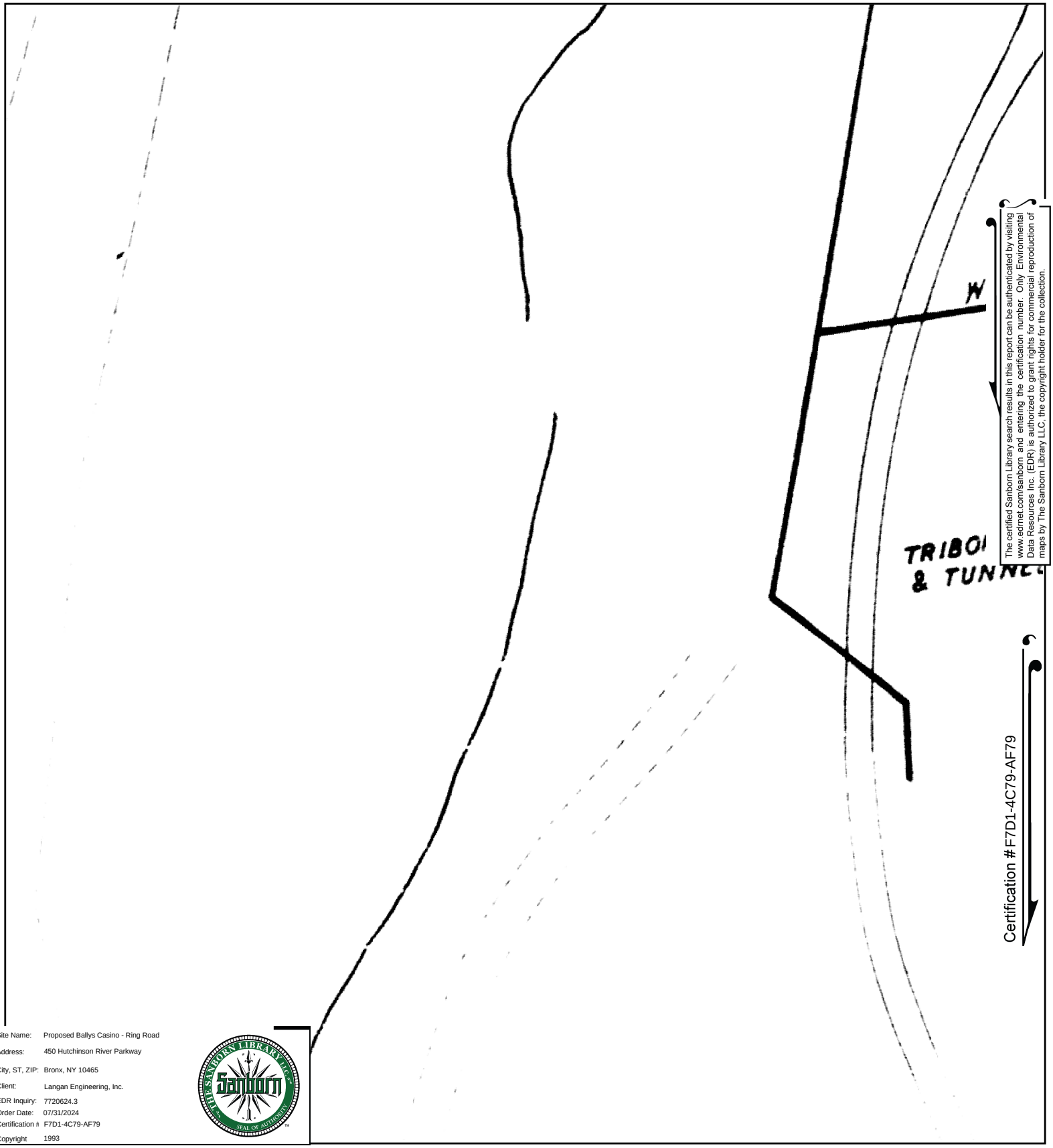

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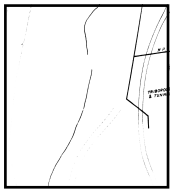

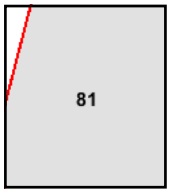

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1992

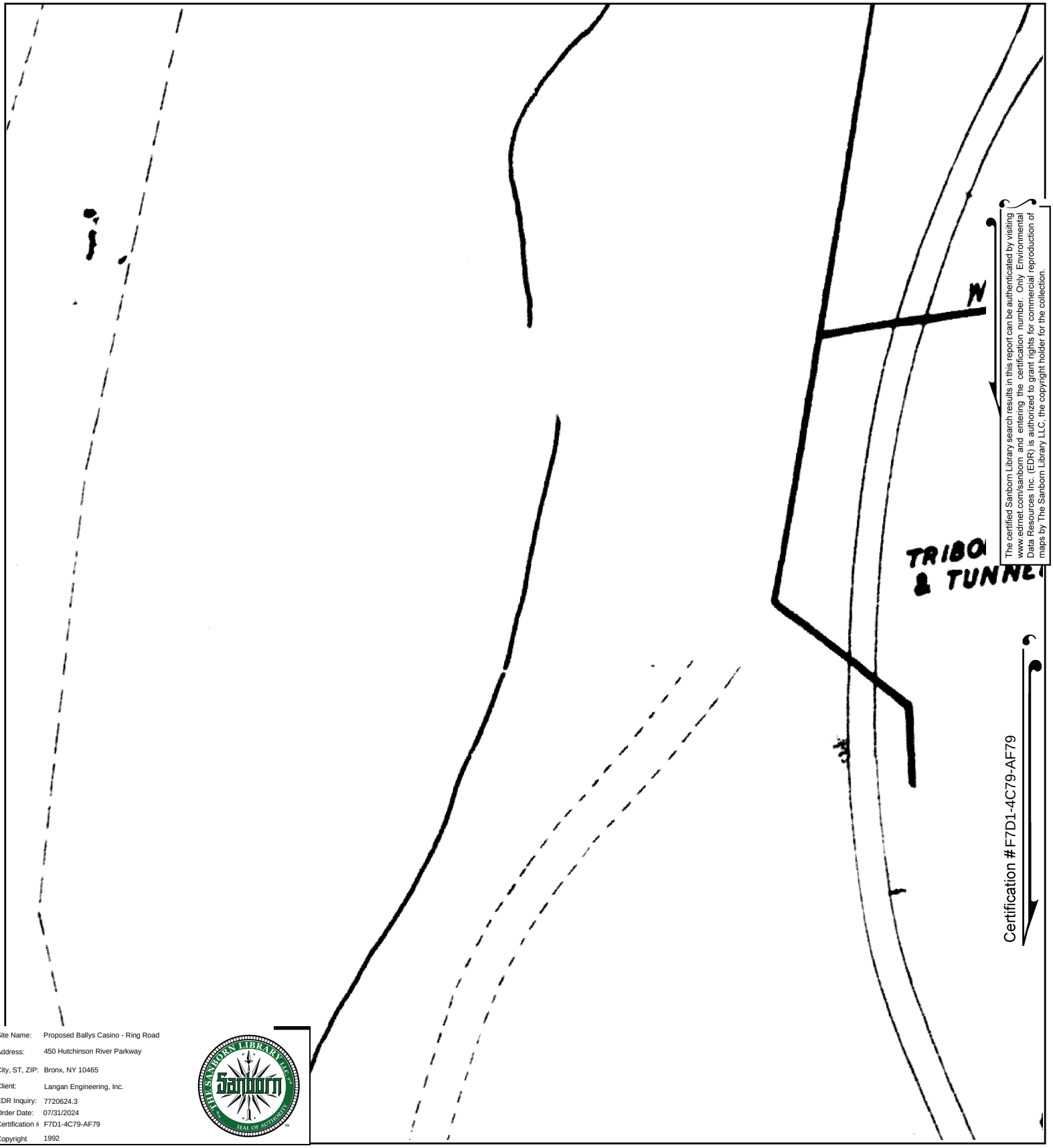

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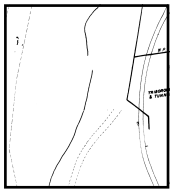

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N

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1991

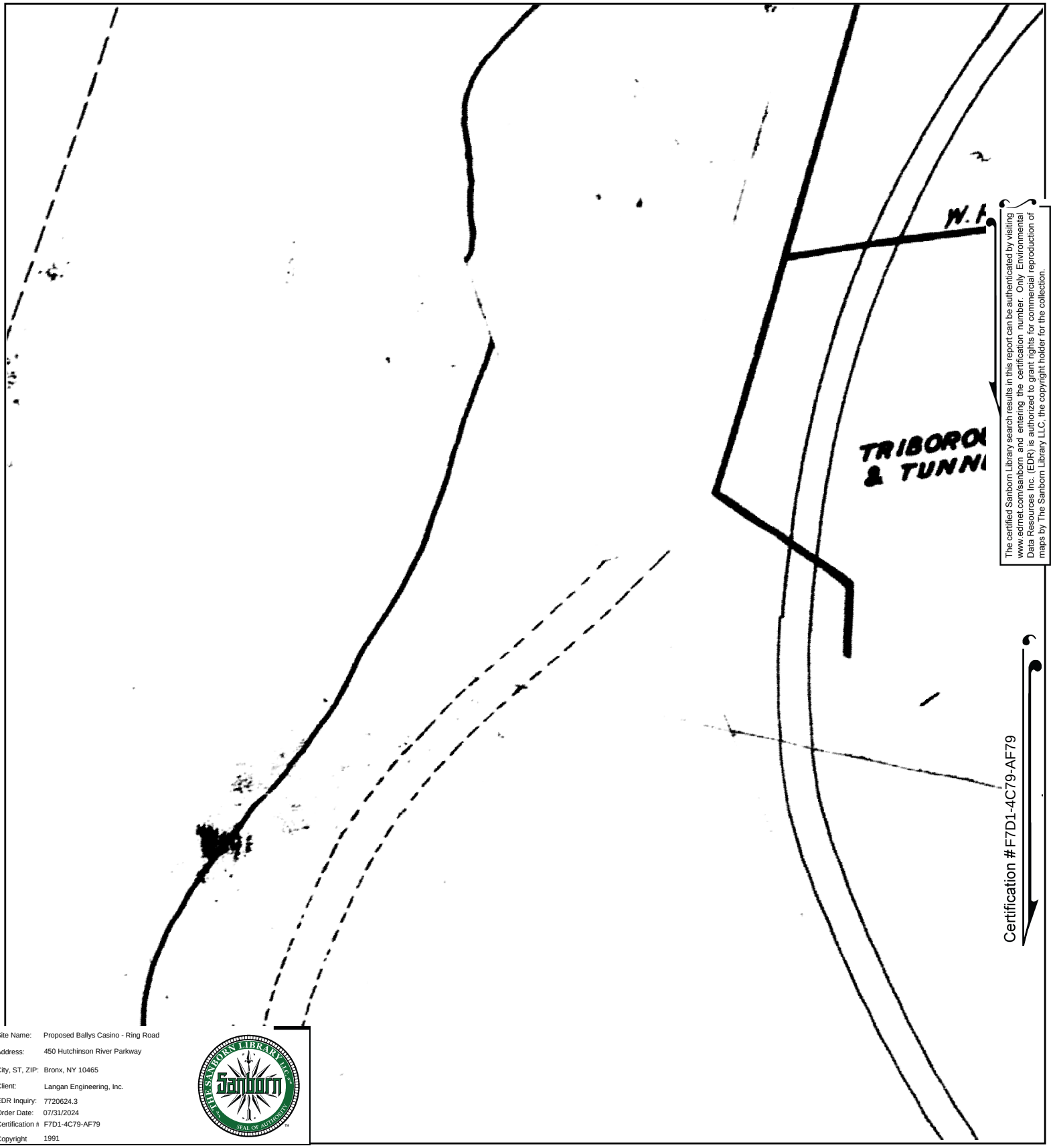

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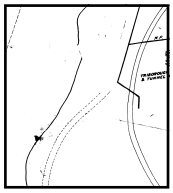

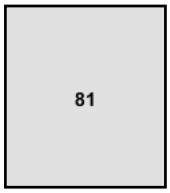

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1988

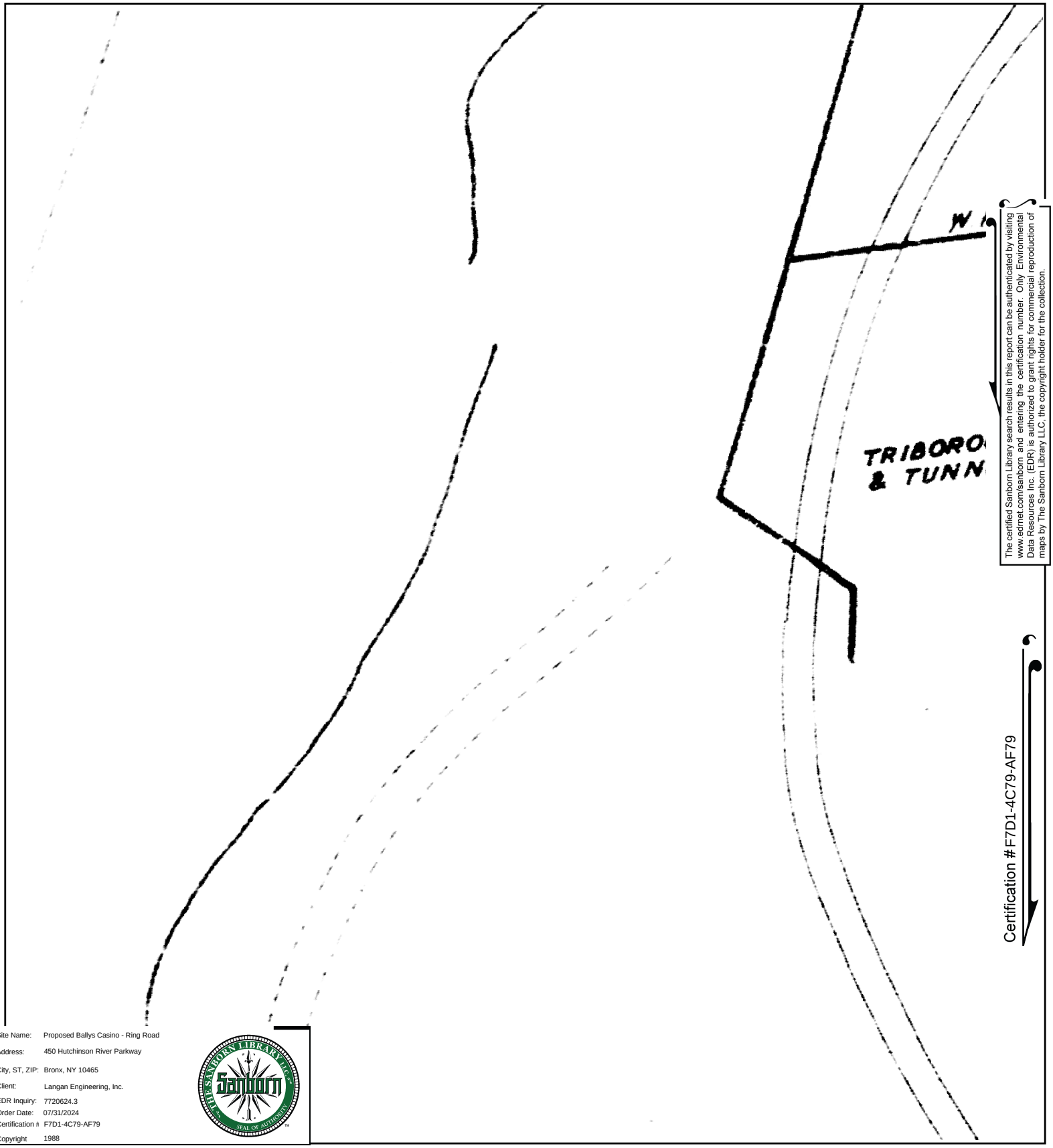

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Copyright	1988

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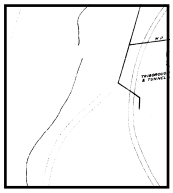

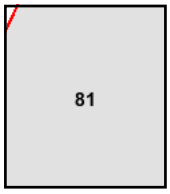

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1986

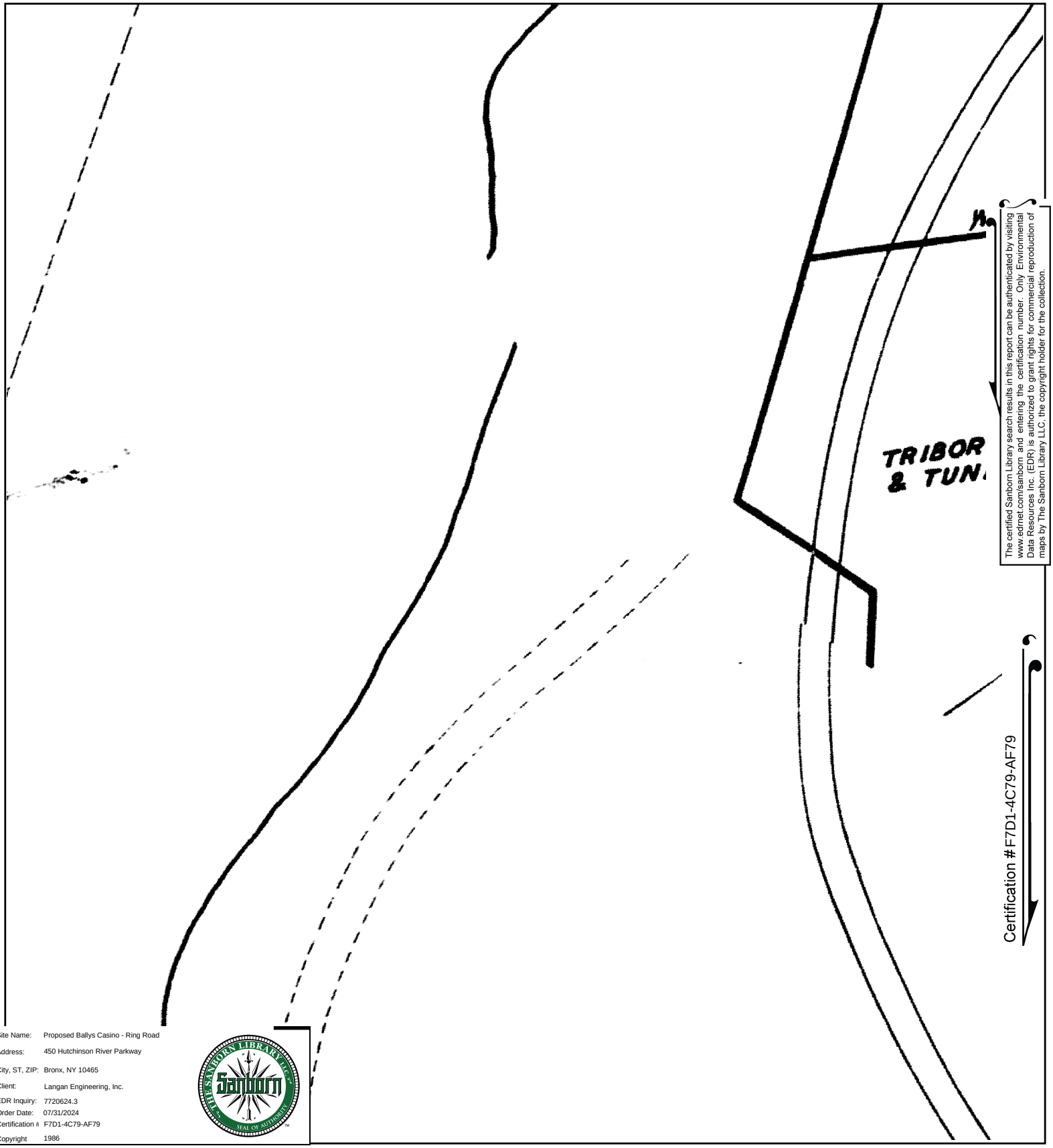

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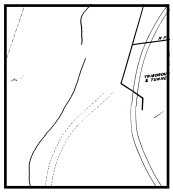

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1983

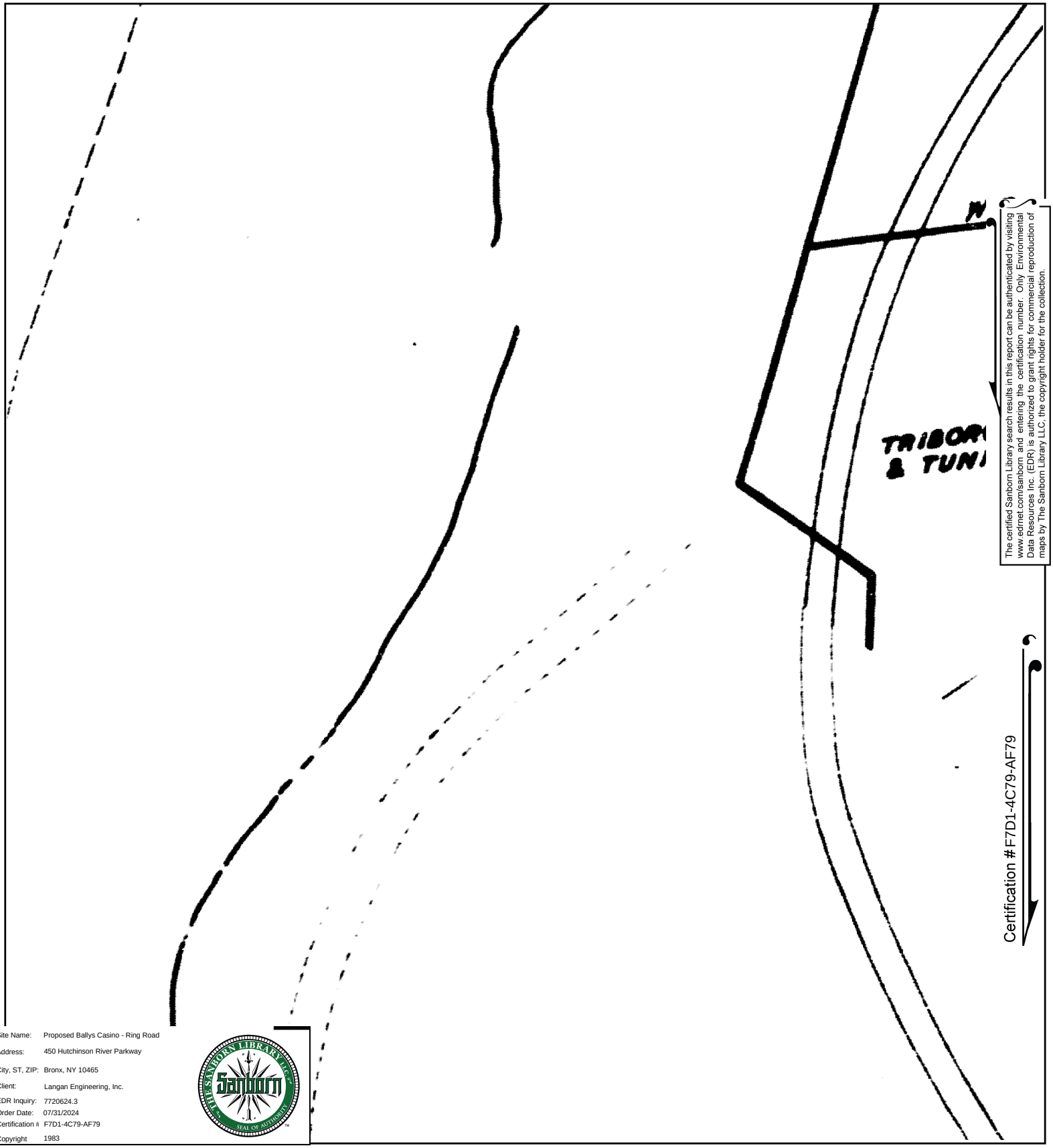

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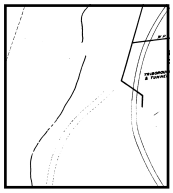

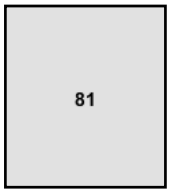

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1981

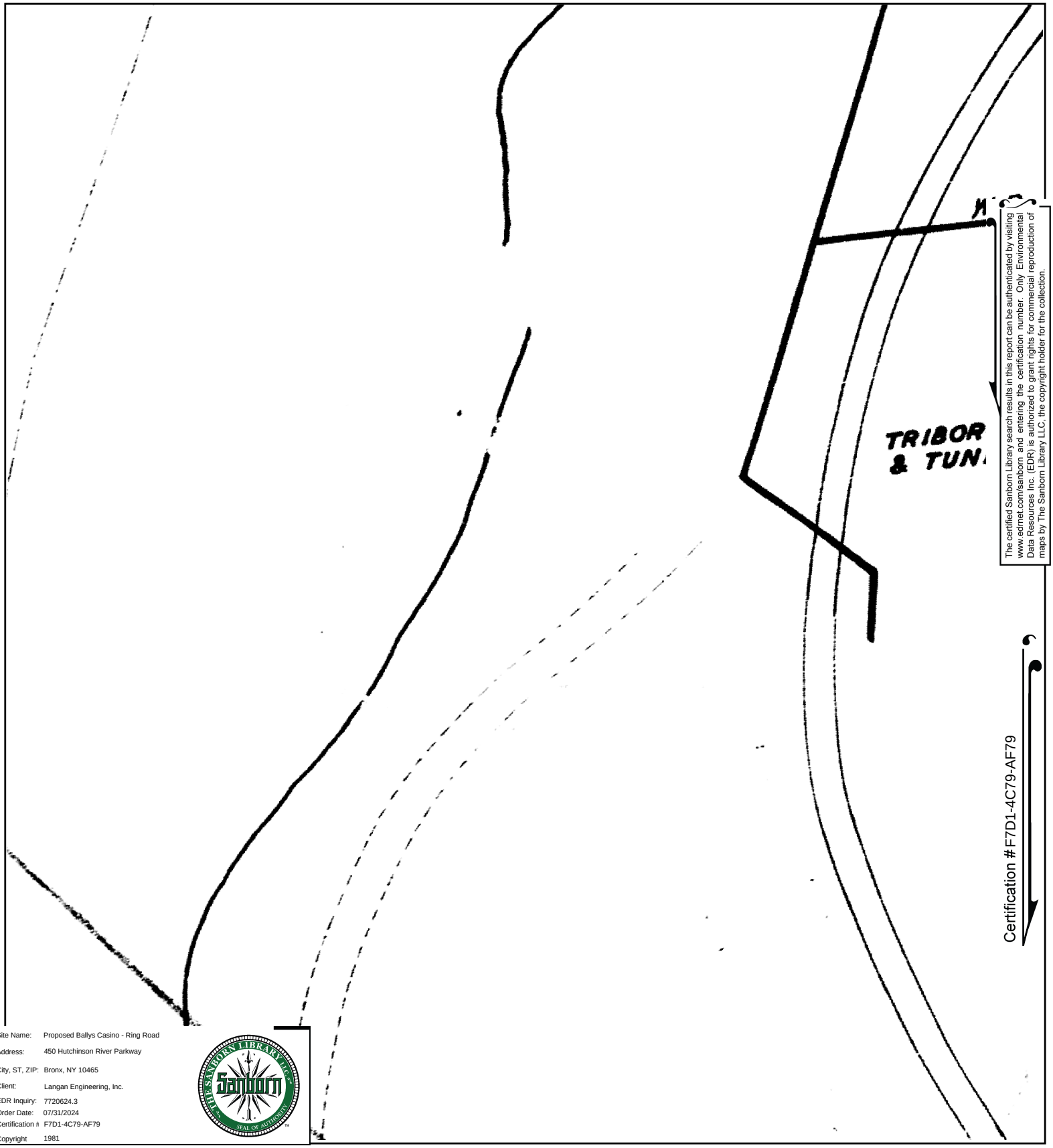

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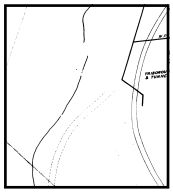

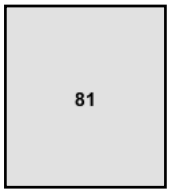

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1978

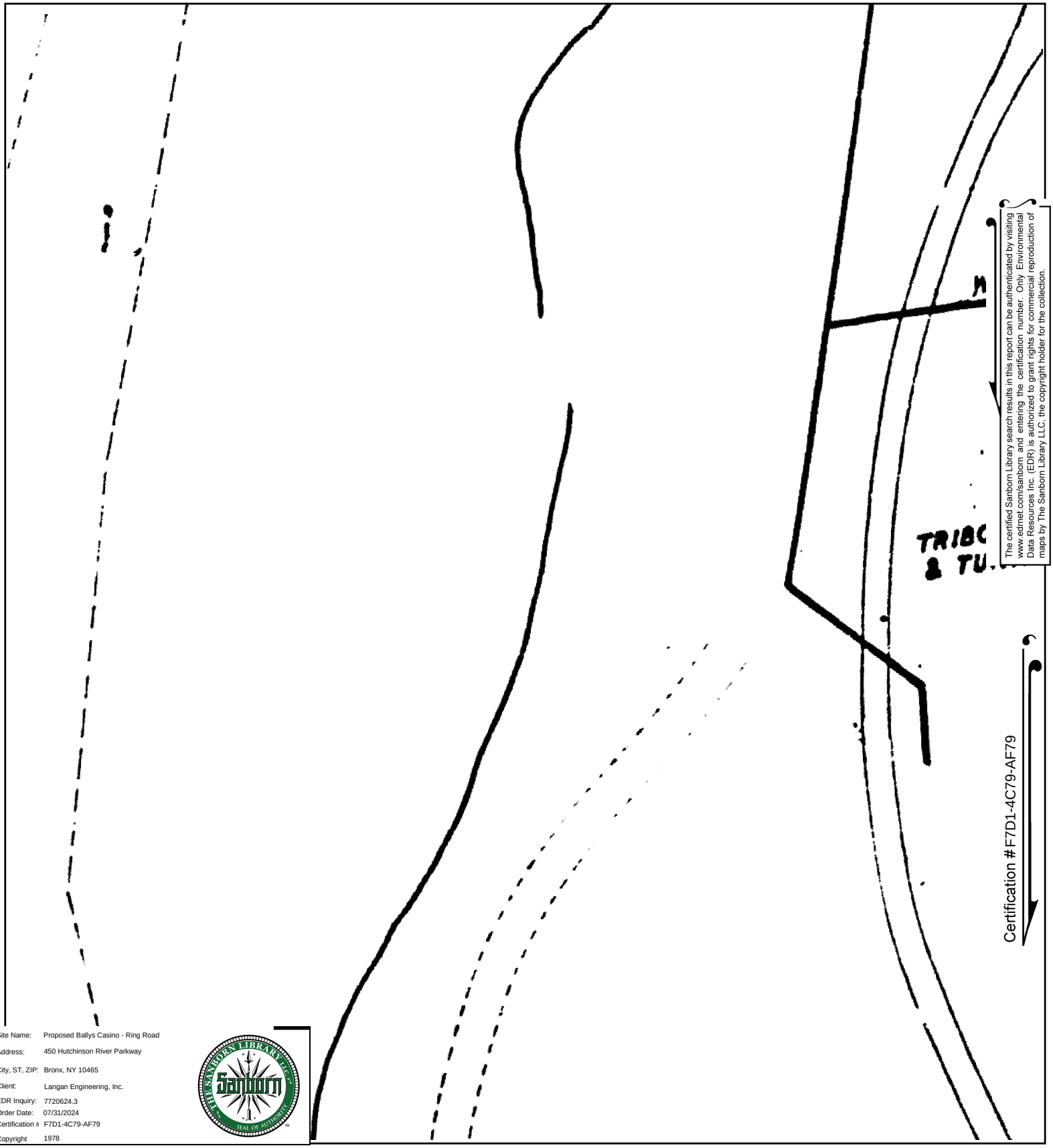

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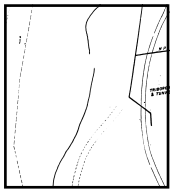

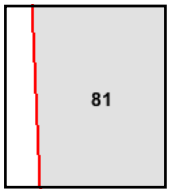

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1977

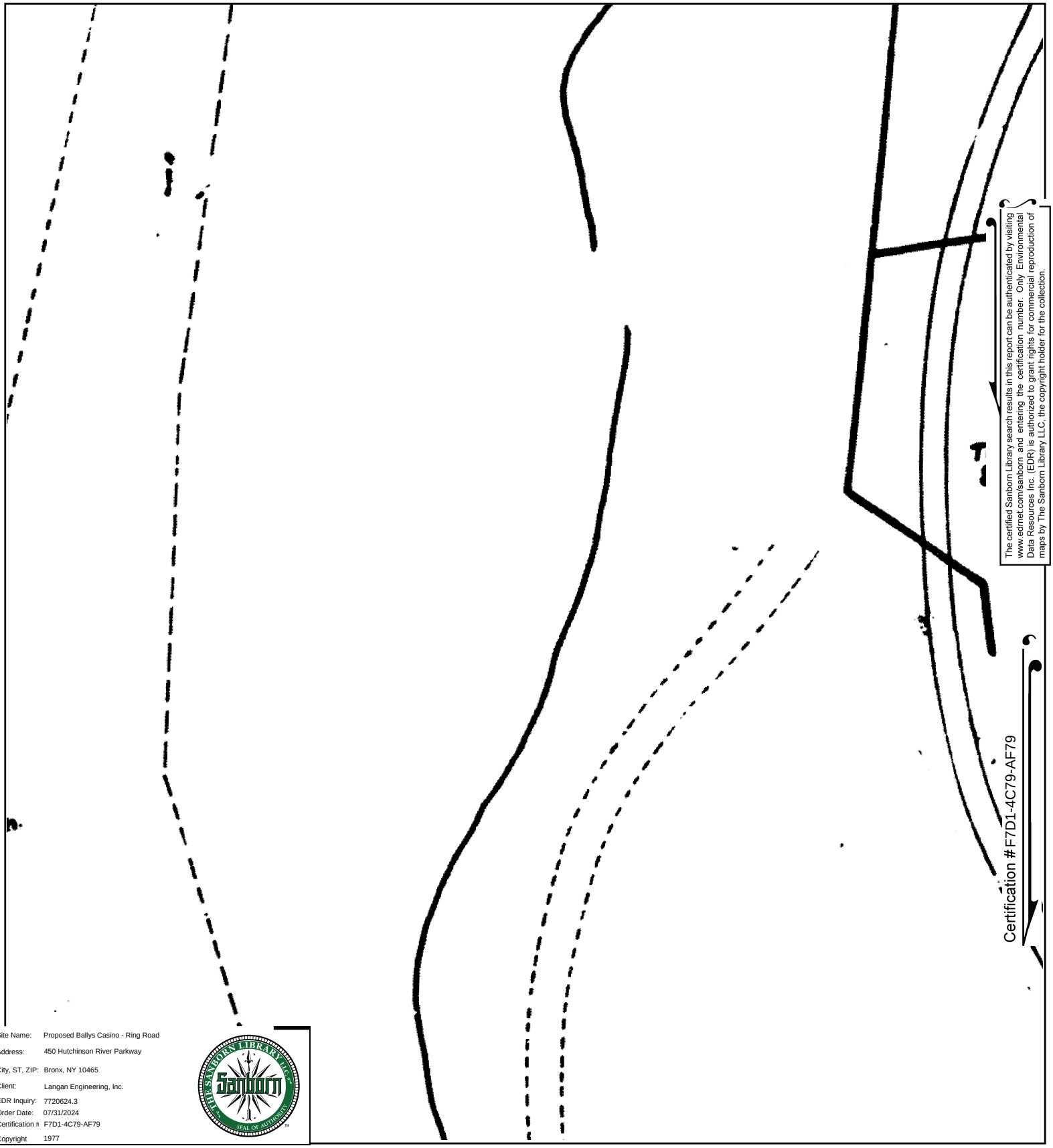

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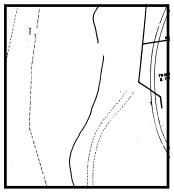

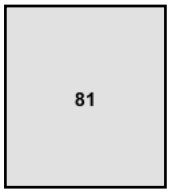

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1967

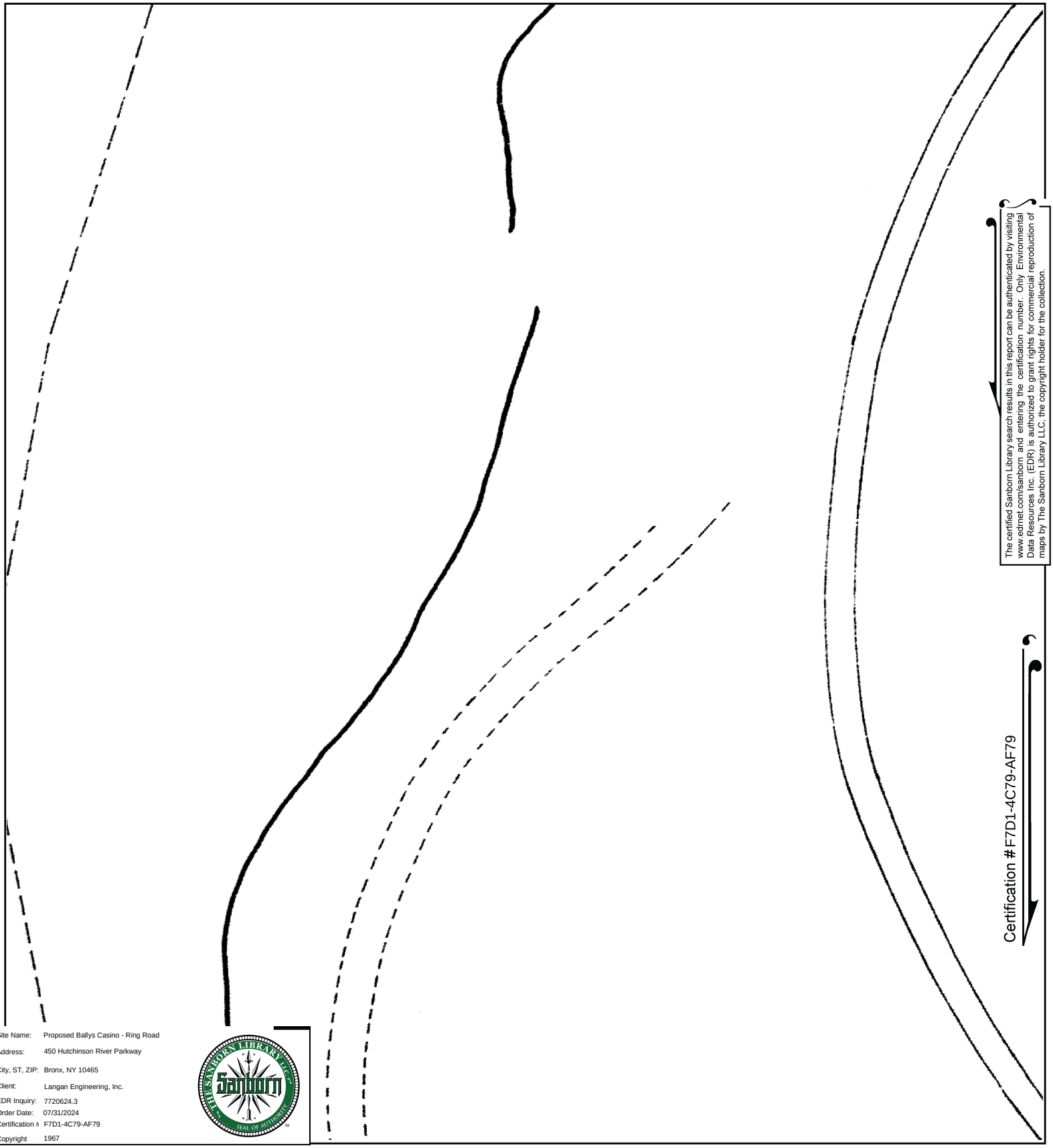

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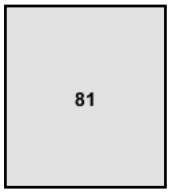

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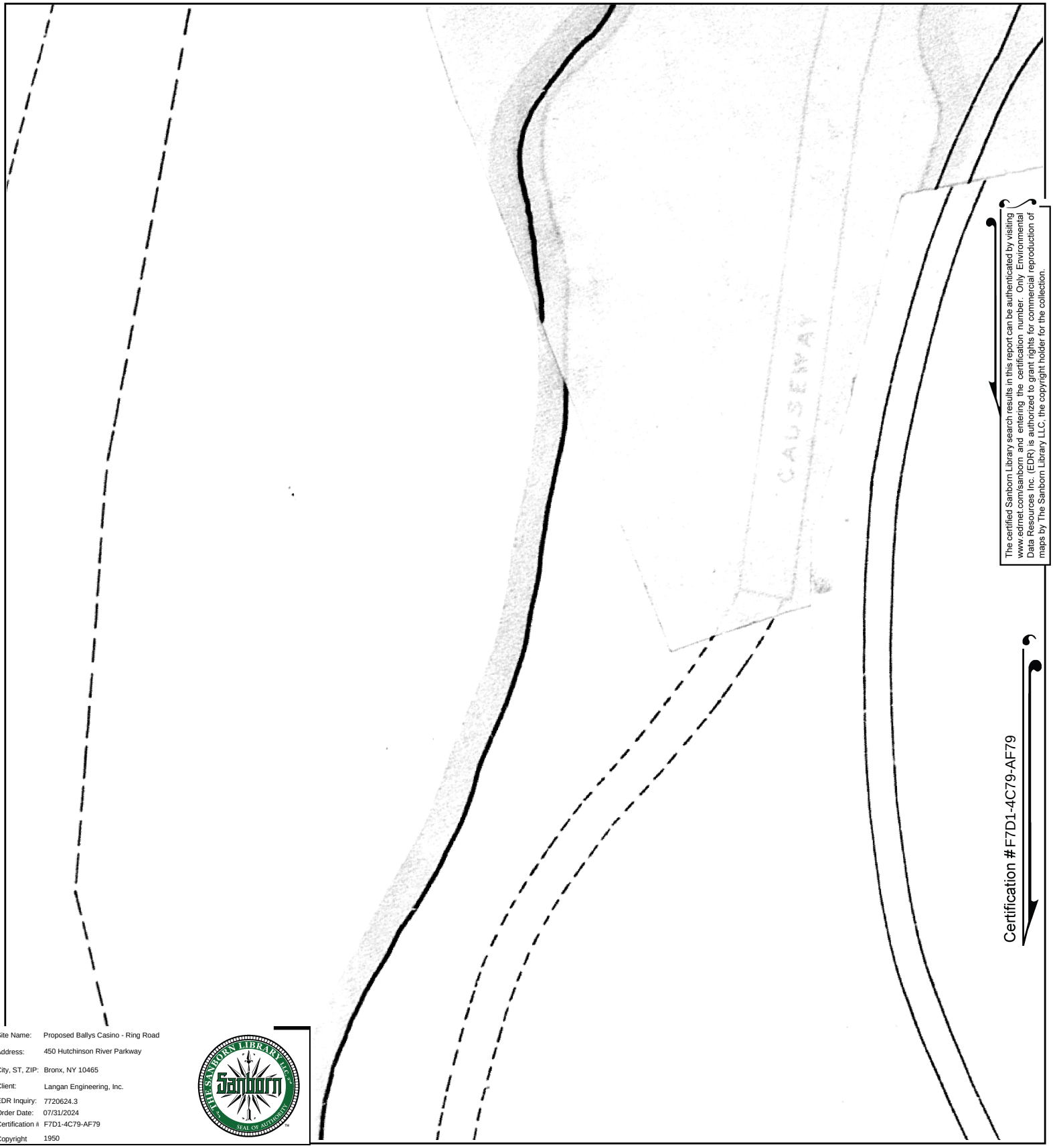

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Address: 450 Hutchinson River Parkway
City, ST, ZIP: Bronx, NY 10465
Client: Langan Engineering, Inc.
EDR Inquiry: 7720624.3
Order Date: 07/31/2024
Certification # F7D1-4C79-AF79
Copyright 1950

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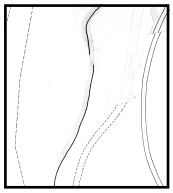

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N

Certified Sanborn® Map

1930

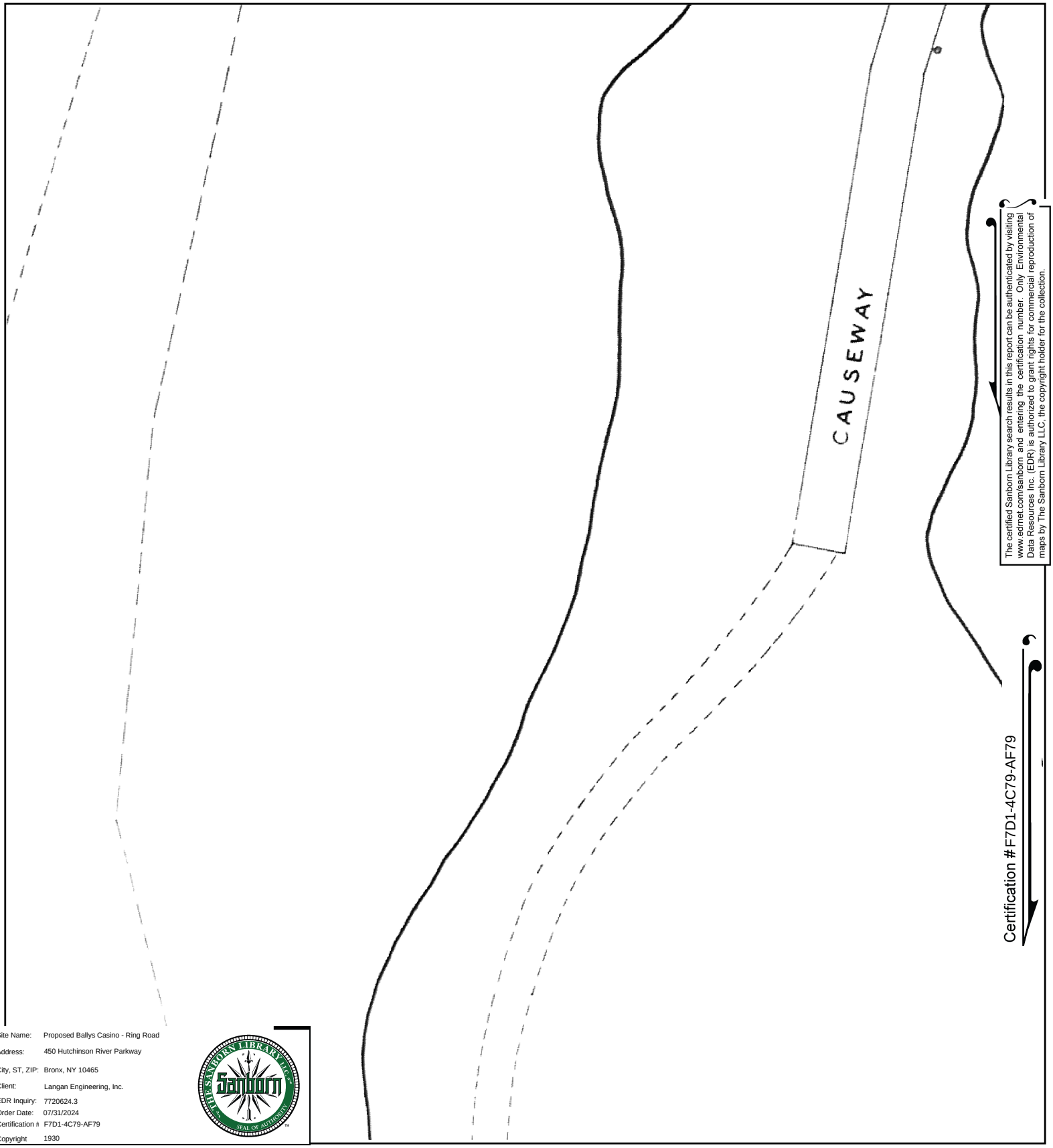

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1930

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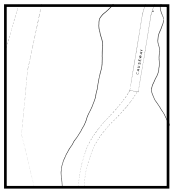

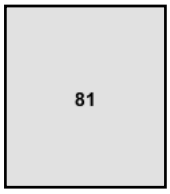

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N

Certified Sanborn® Map

1919

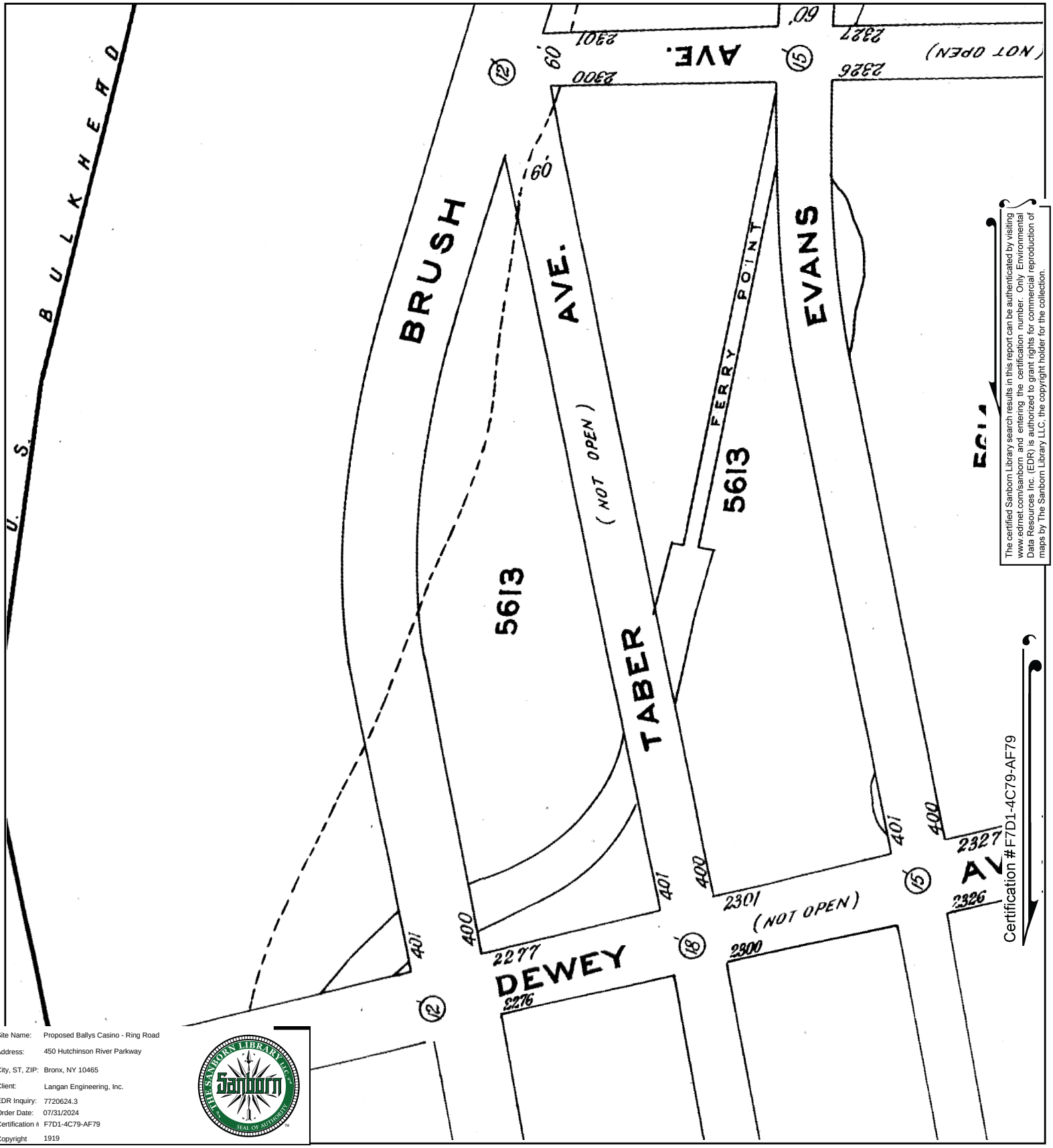

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Certification #F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1919

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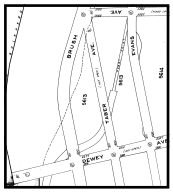

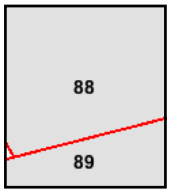

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N

Certified Sanborn® Map

1908

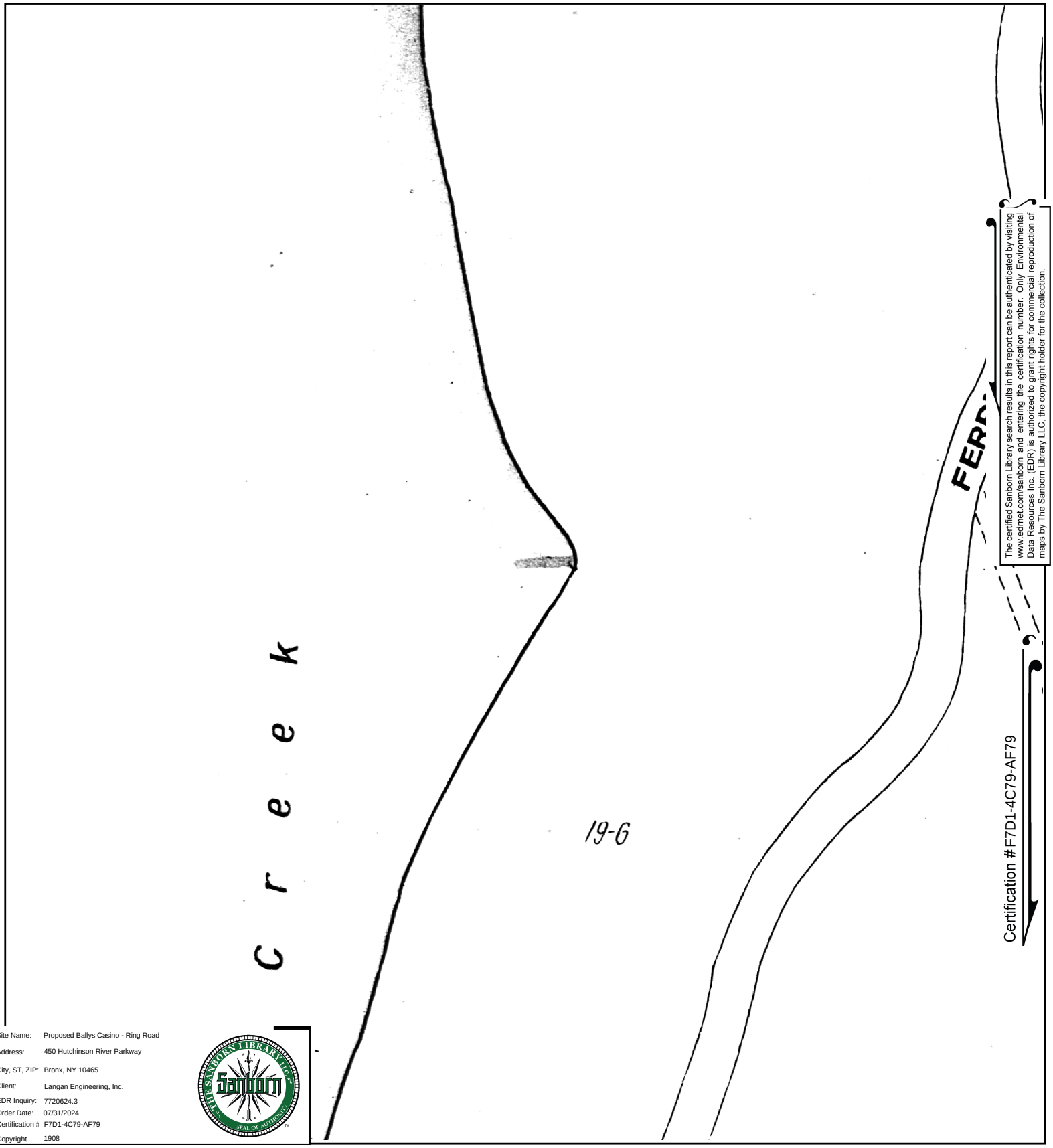

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1908

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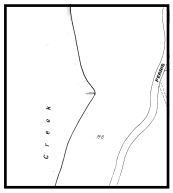

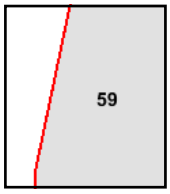

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N

Certified Sanborn® Map

1898

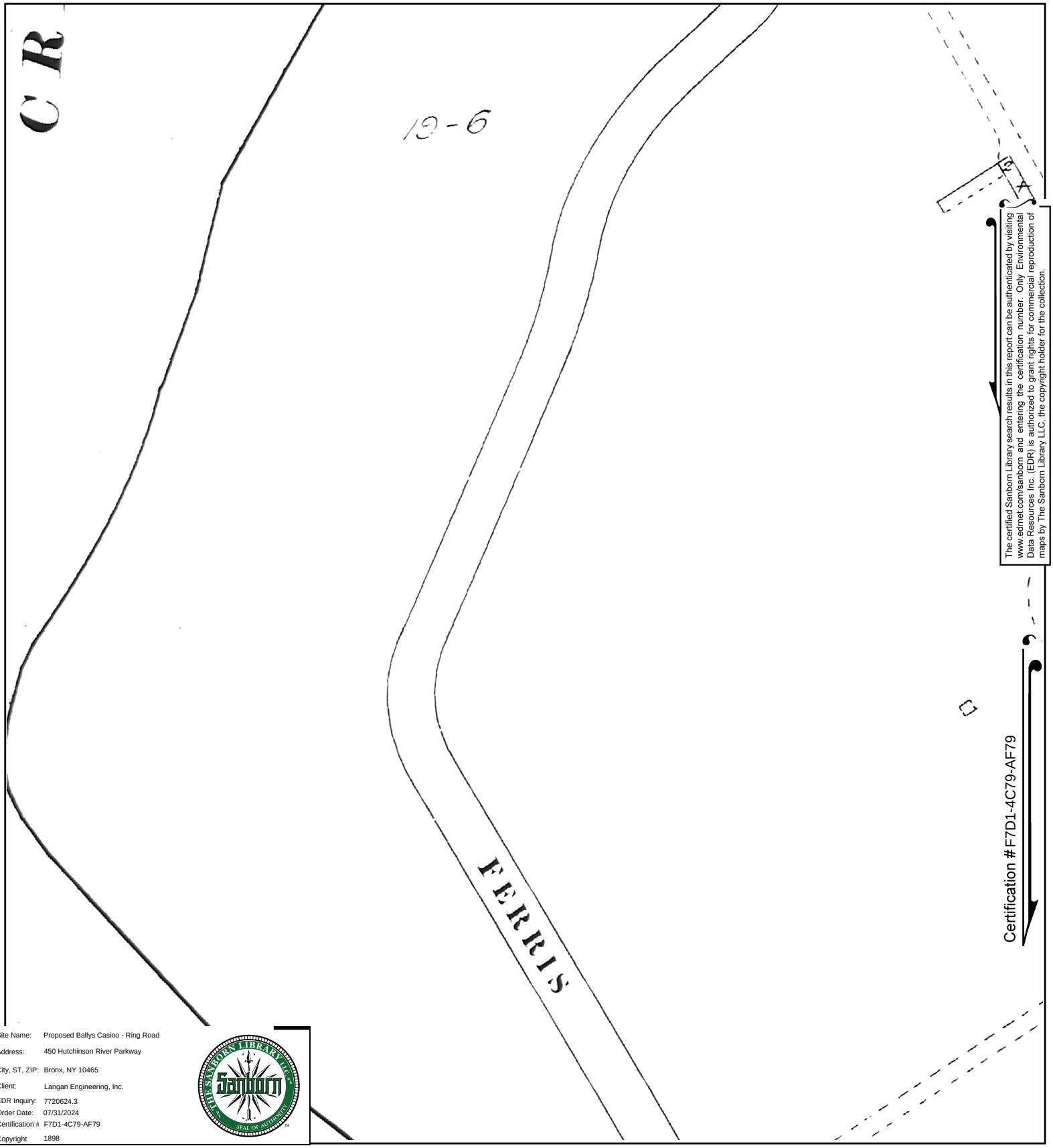

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1898

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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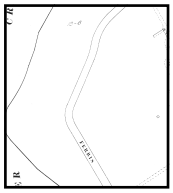

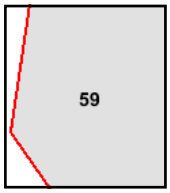

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N

Proposed Ballys Casino - Ring Road

450 Hutchinson River Parkway

Bronx, NY 10465

Inquiry Number: 7720624.3

July 31, 2024

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

07/31/24

Site Name:	Client Name:
Proposed Ballys Casino - Ring	Langan Engineering, Inc.
450 Hutchinson River Parkway	360 W. 31st Street
Bronx, NY 10465	New York, NY 10001
EDR Inquiry # 7720624.3	Contact: Kaitlyn Gioia

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Certified Sanborn Results:

Certification # F7D1-4C79-AF79

PO # 170773001

Project Prpsd Bally s Casino - Ring Rd

Maps Provided:

2007	1996	1981	1898
2006	1995	1978	
2005	1993	1977	
2004	1992	1967	
2003	1991	1950	
2002	1988	1930	
2001	1986	1919	
1998	1983	1908	

Sanborn® Library search results

Certification #: F7D1-4C79-AF79

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- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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Sanborn Sheet Key

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2007 Source Sheets

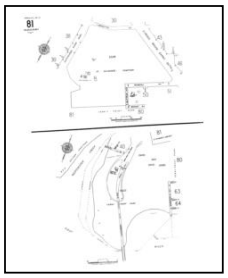

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2007

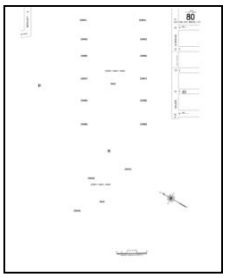

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2007

2006 Source Sheets

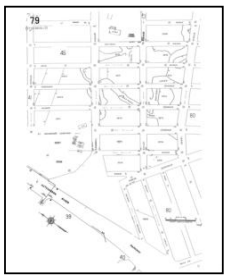

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2006

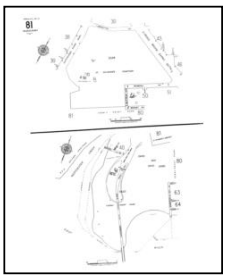

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2006

2005 Source Sheets

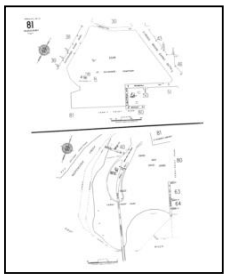

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2005

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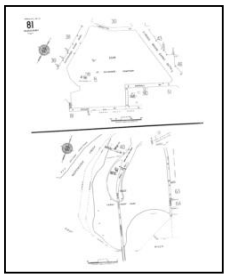

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2004

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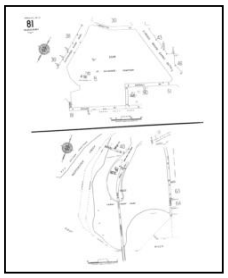

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2003

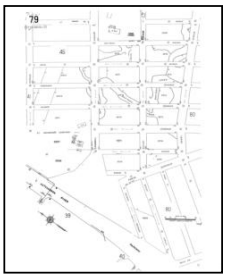

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2003

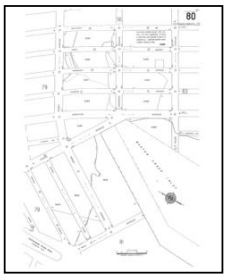

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2003

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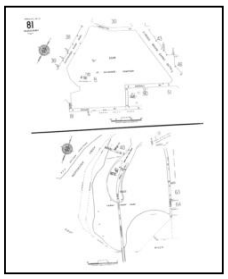

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2002

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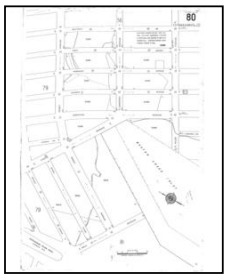

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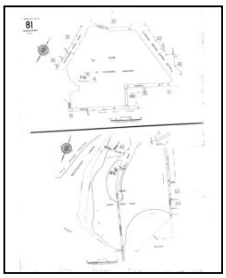

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2001

1998 Source Sheets

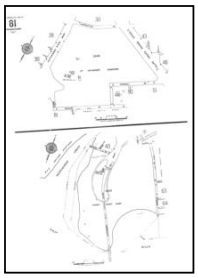

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1998

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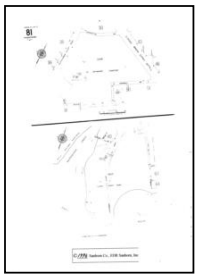

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1996

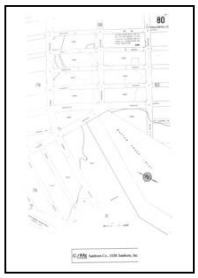

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1996

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1996

1995 Source Sheets

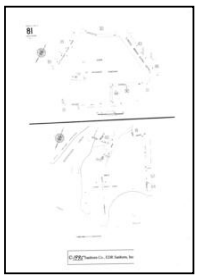

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1995

1993 Source Sheets

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1993

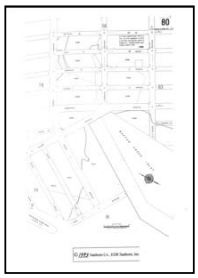

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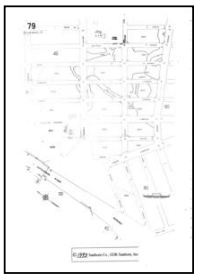

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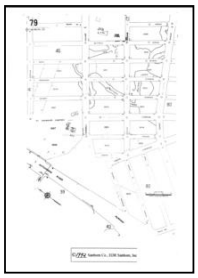

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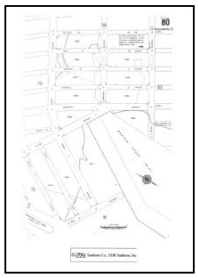

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1992

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1992

Sanborn Sheet Key

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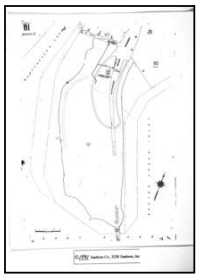

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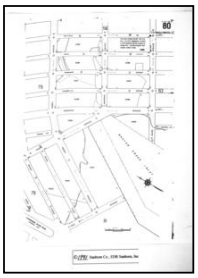

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1991

1988 Source Sheets

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1988

1986 Source Sheets

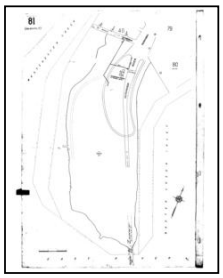

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1983 Source Sheets

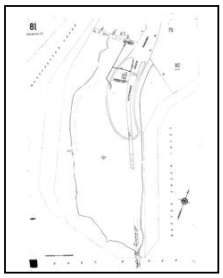

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1983

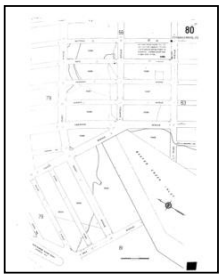

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1983

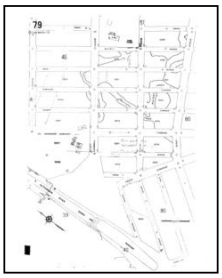

Volume 21, Sheet 79
1983

Sanborn Sheet Key

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1981 Source Sheets

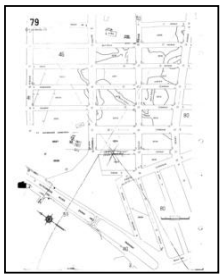

Volume 21, Sheet 79
1981

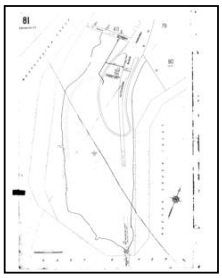

Volume 21, Sheet 81
1981

1978 Source Sheets

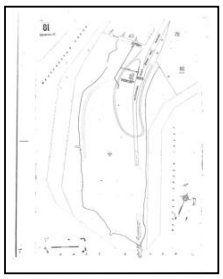

Volume 21, Sheet 81
1978

1977 Source Sheets

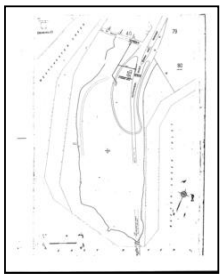

Volume 21, Sheet 81
1977

Volume 21, Sheet 80
1977

1967 Source Sheets

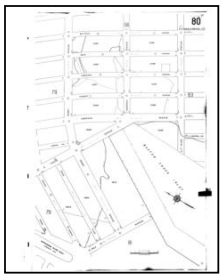

Volume 21, Sheet 80
1967

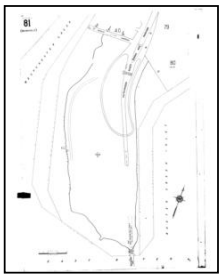

Volume 21, Sheet 81
1967

Sanborn Sheet Key

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1950 Source Sheets

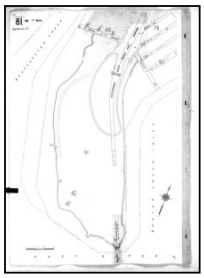

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1950

1930 Source Sheets

Volume 21, Sheet 81
1930

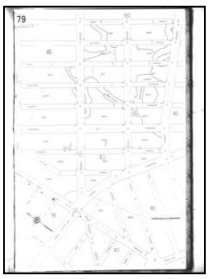

Volume 21, Sheet 79
1930

1919 Source Sheets

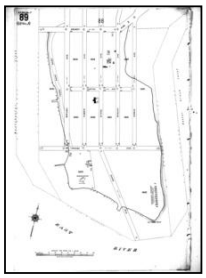

Volume 17, Sheet 89
1919

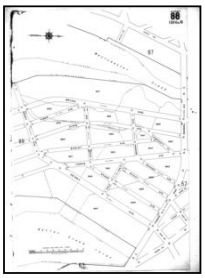

Volume 17, Sheet 88
1919

1908 Source Sheets

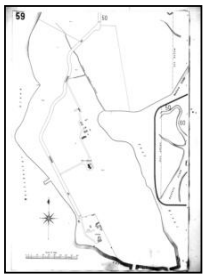

Volume A, Sheet 59
1908

Sanborn Sheet Key

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1898 Source Sheets

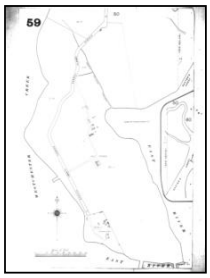

Volume A, Sheet 59
1898

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2007

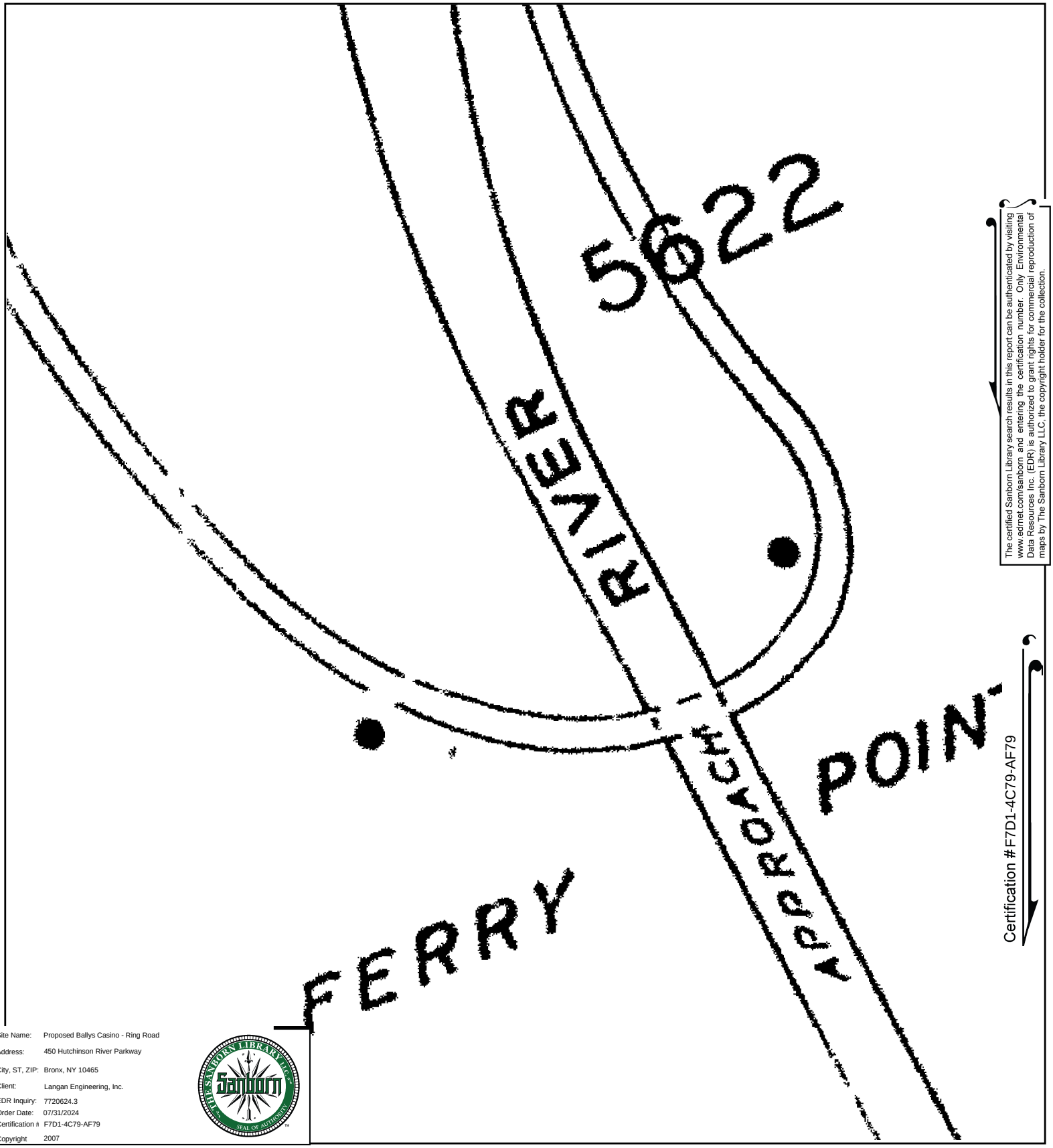

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	2007

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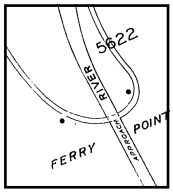

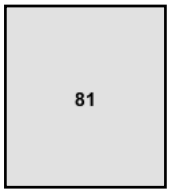

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N

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2006

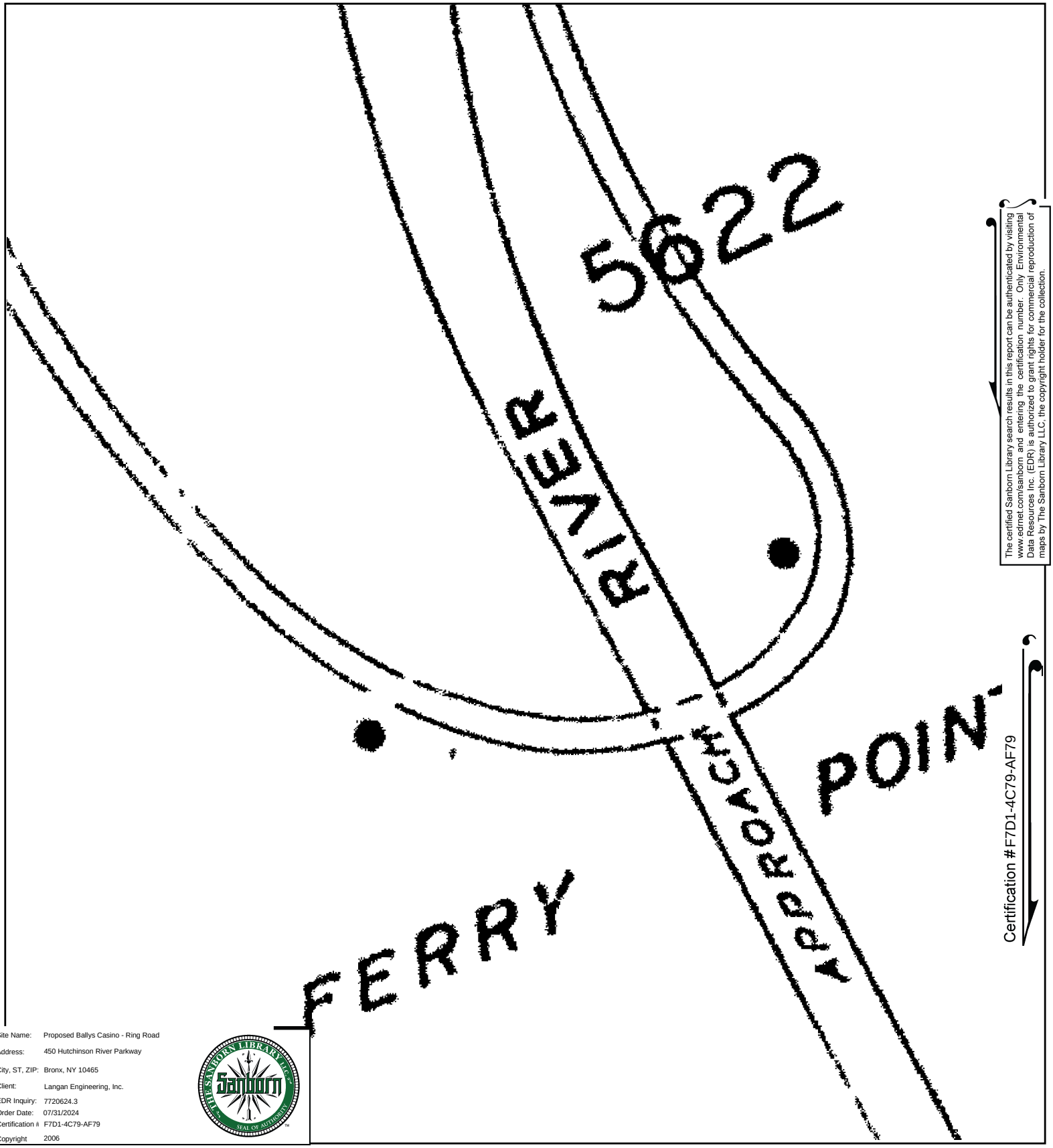

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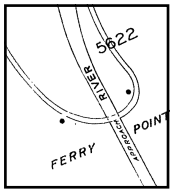

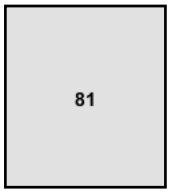

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N

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2005

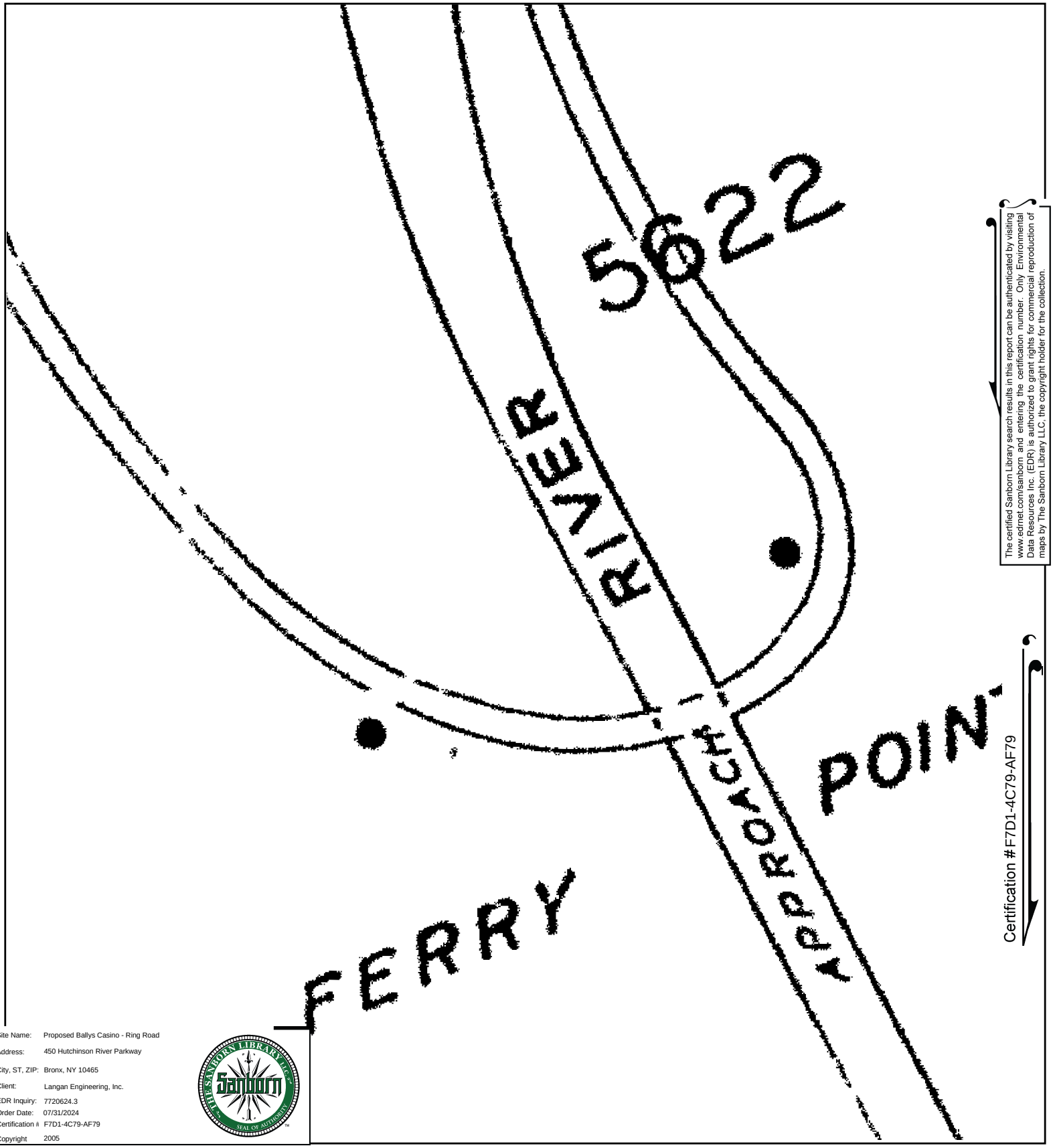

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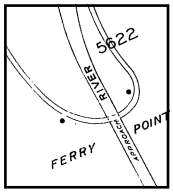

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2004

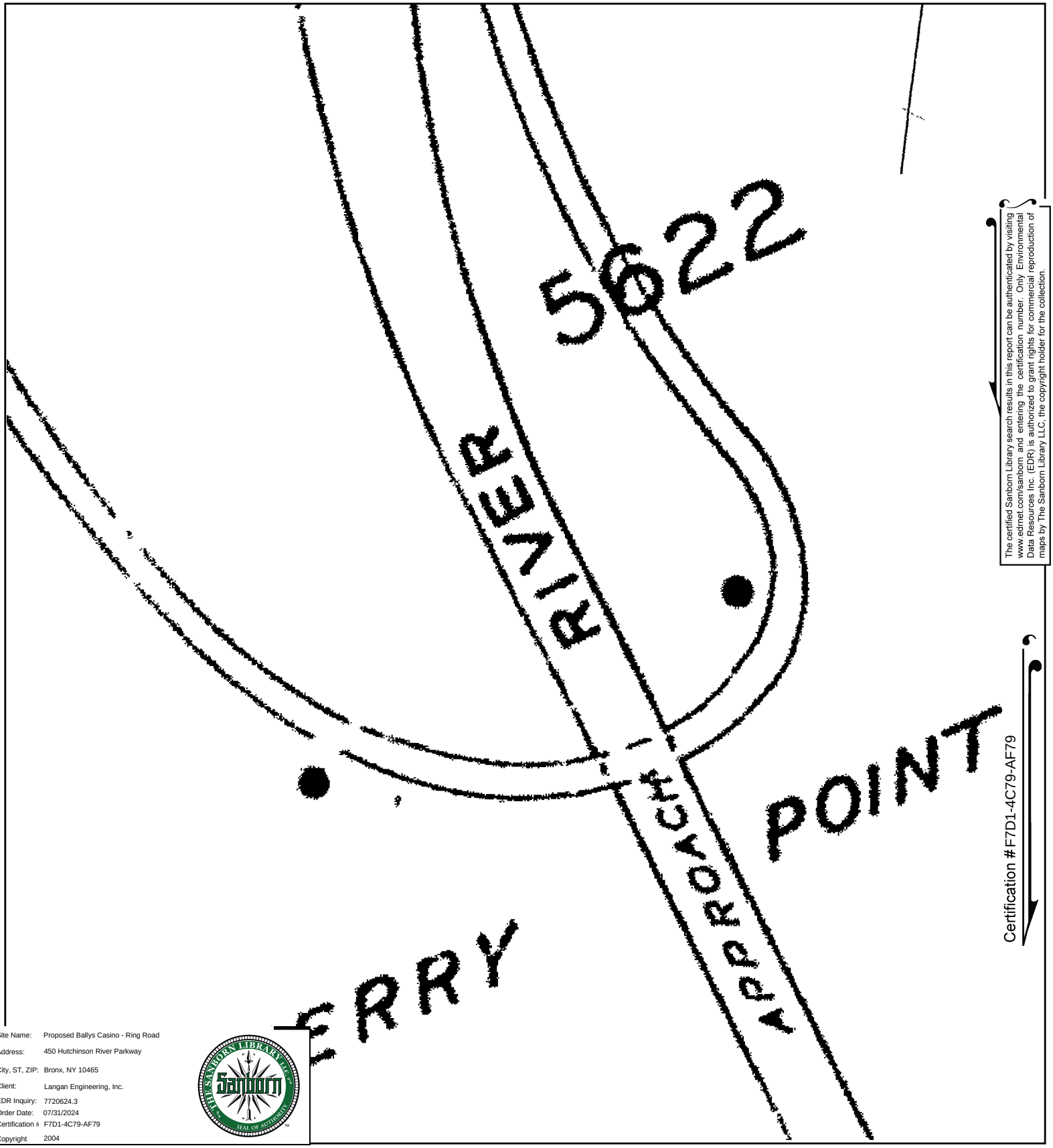

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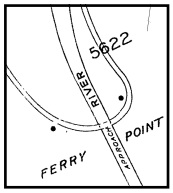

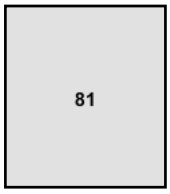

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2003

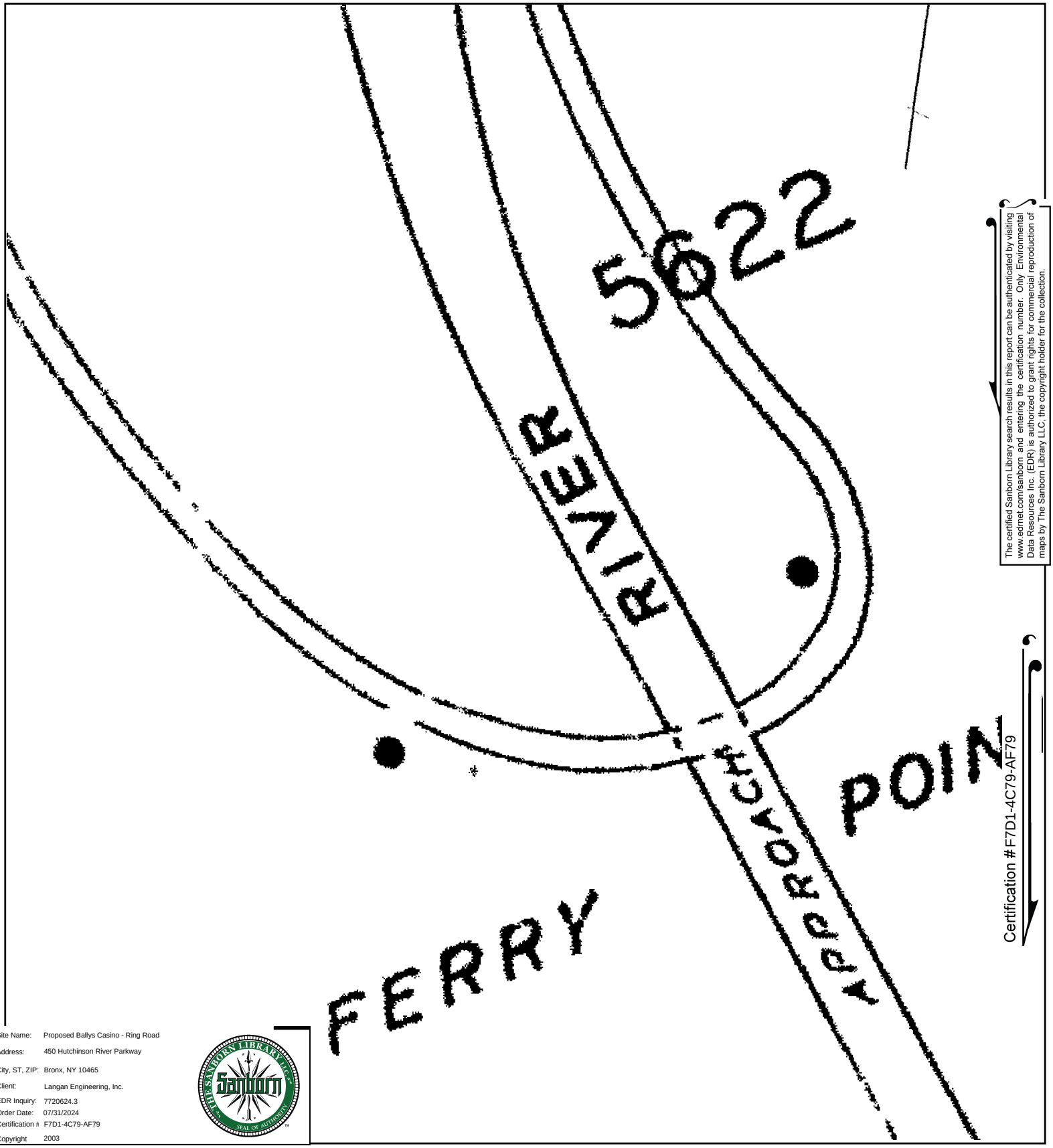

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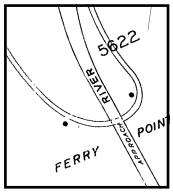

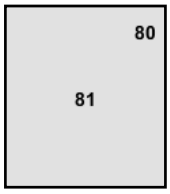

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N

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2002

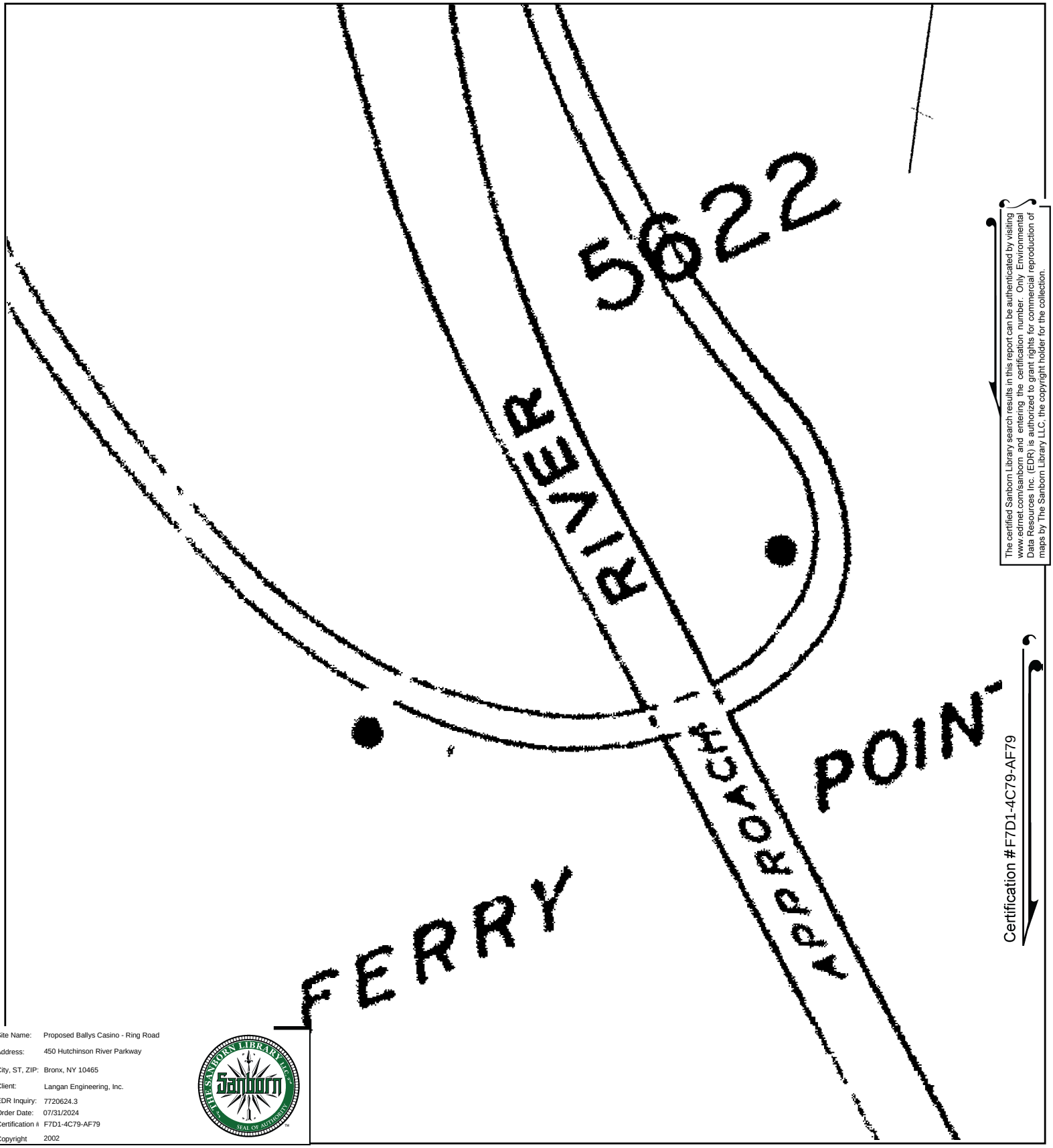

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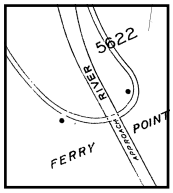

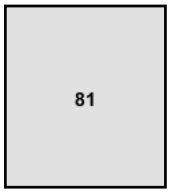

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2001

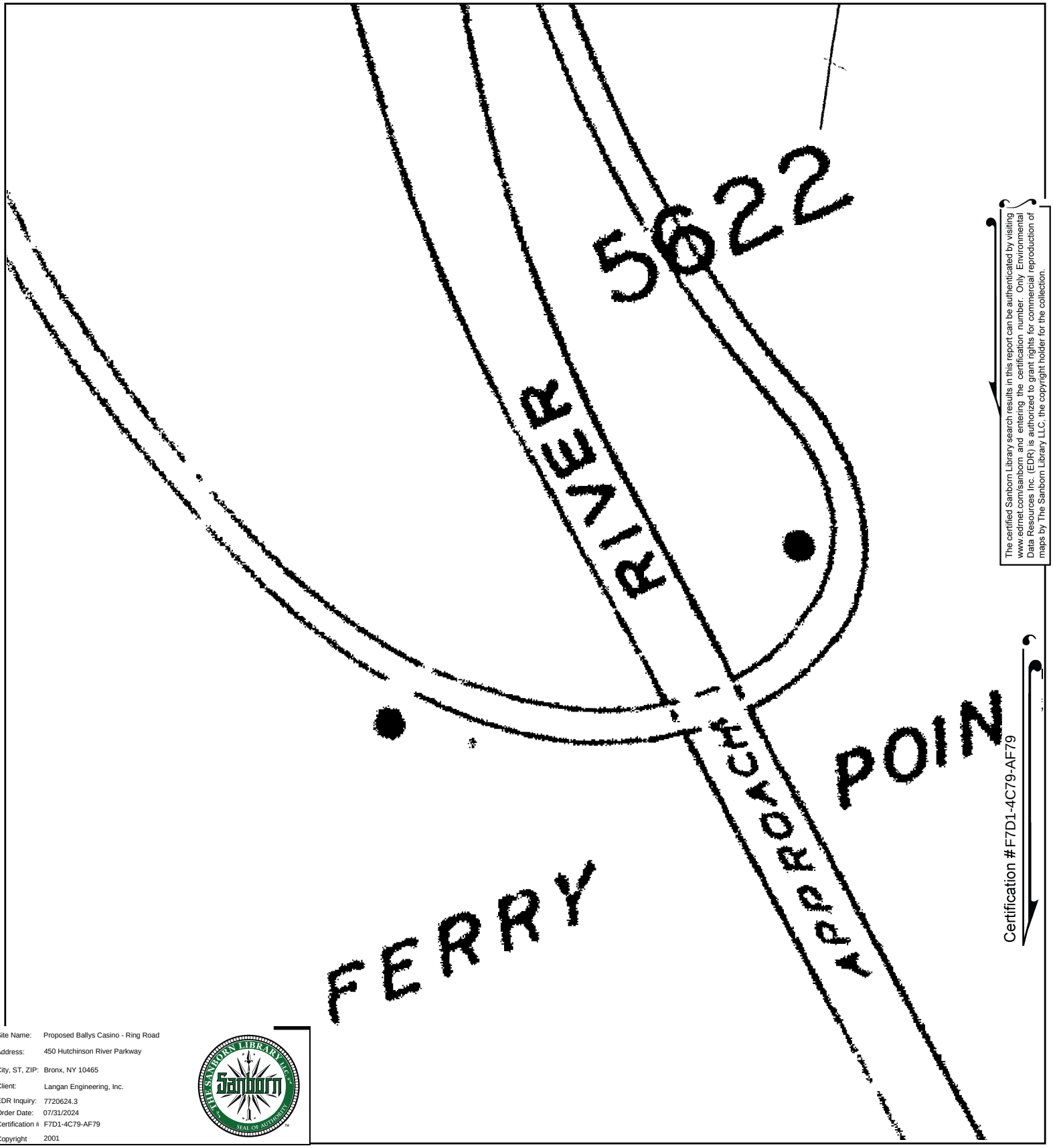

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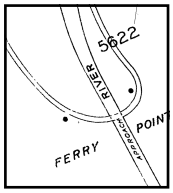

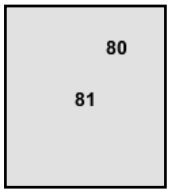

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N

Certified Sanborn® Map

1998

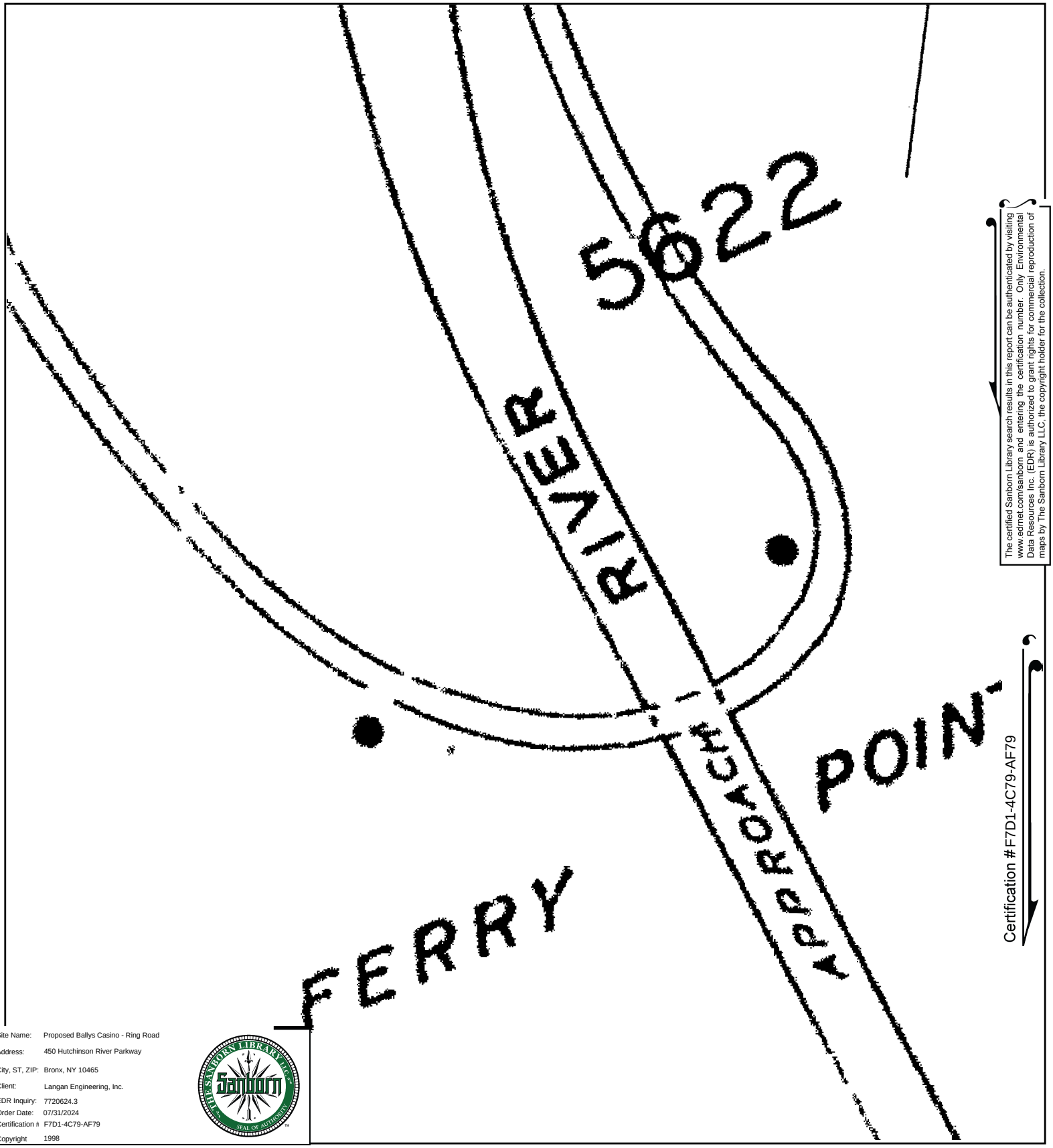

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Copyright	1998

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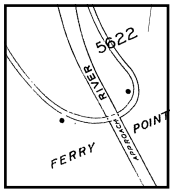

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1996

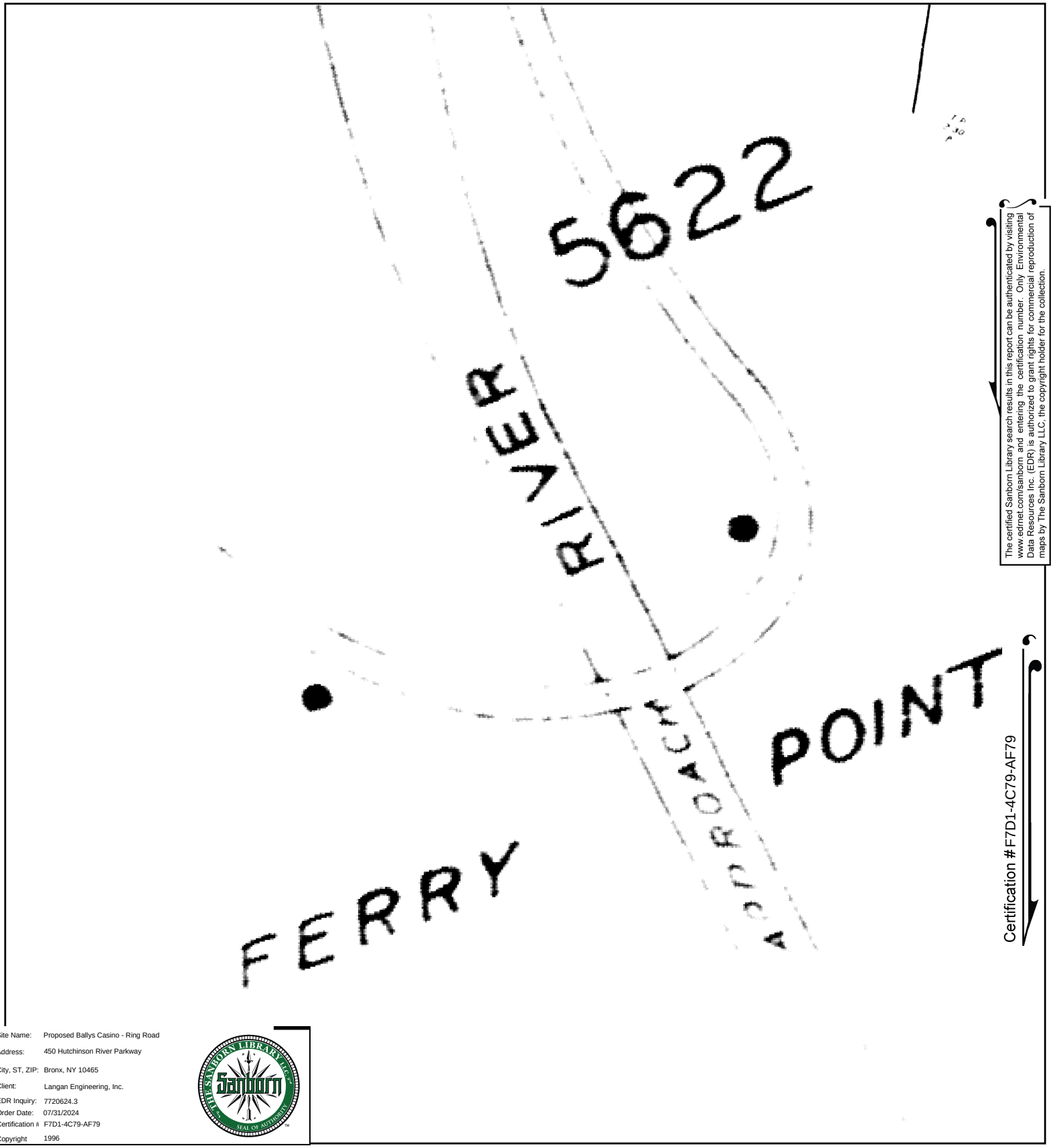

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Copyright	1996

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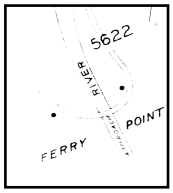

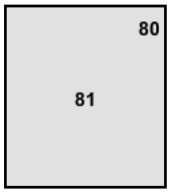

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1995

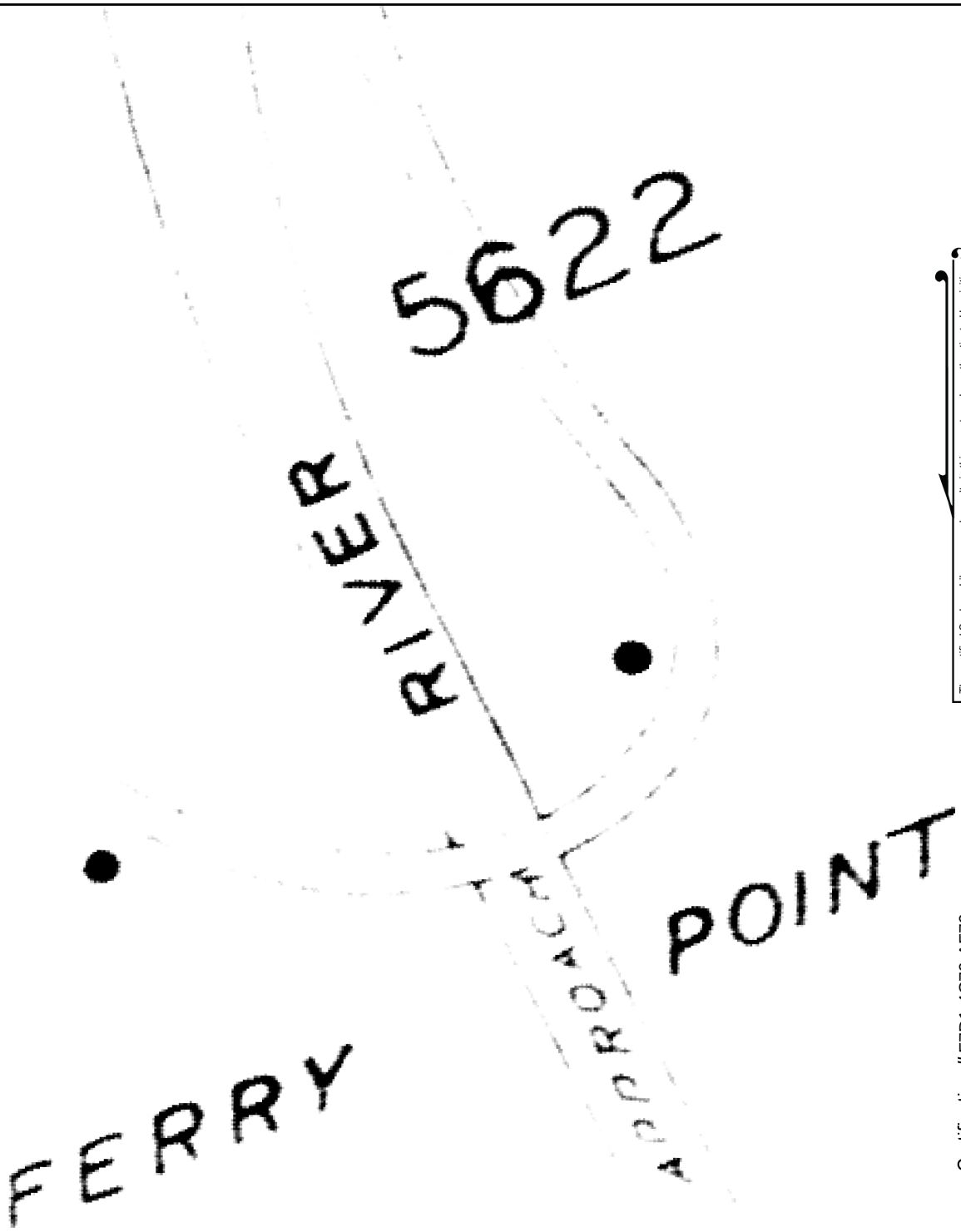

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Certification #F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
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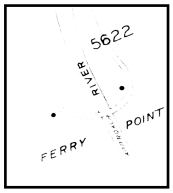

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1993

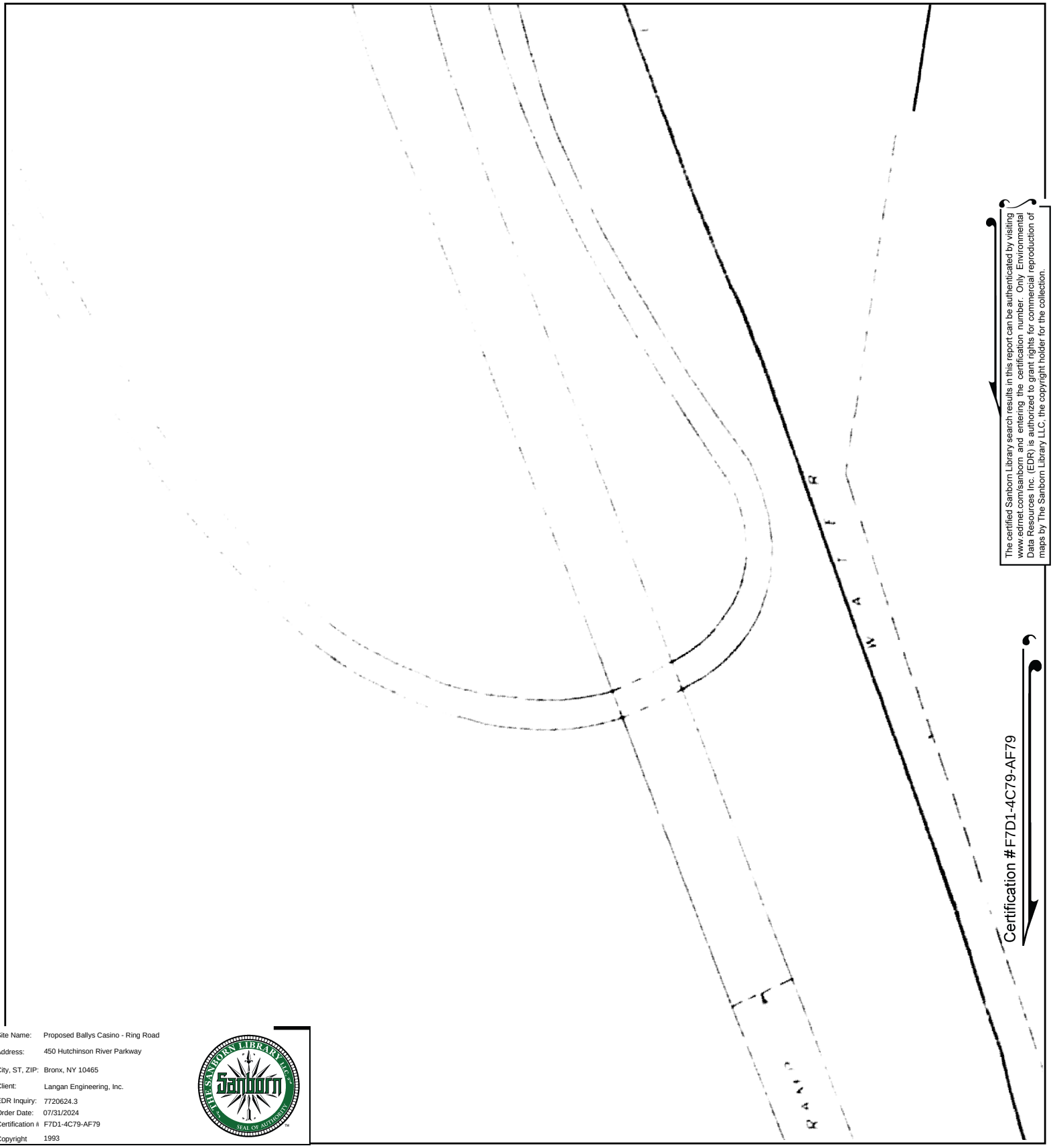

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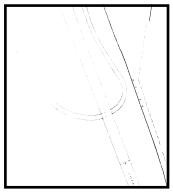

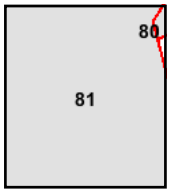

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1992

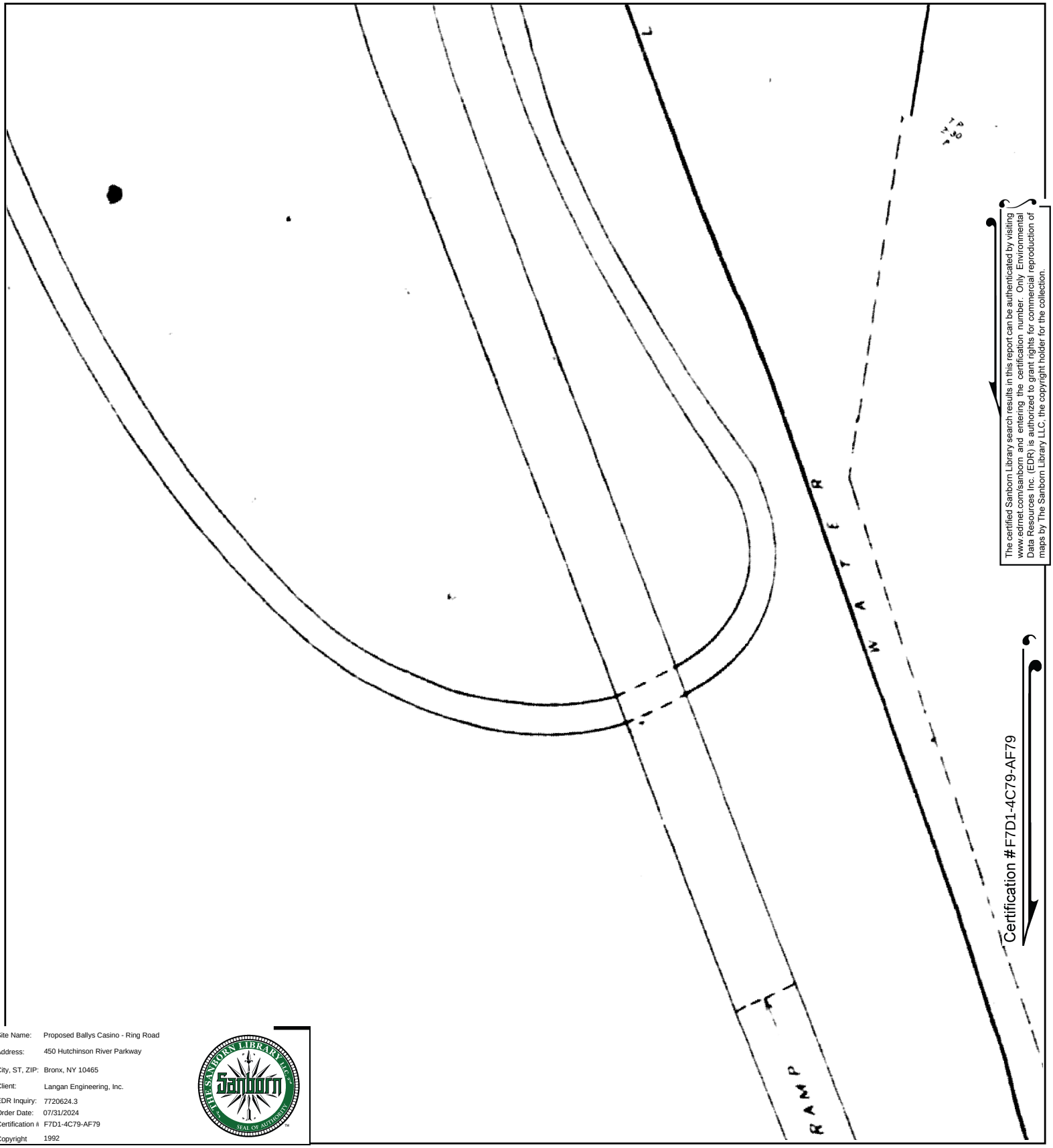

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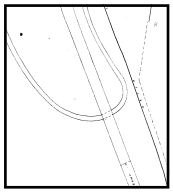

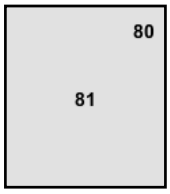

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1991

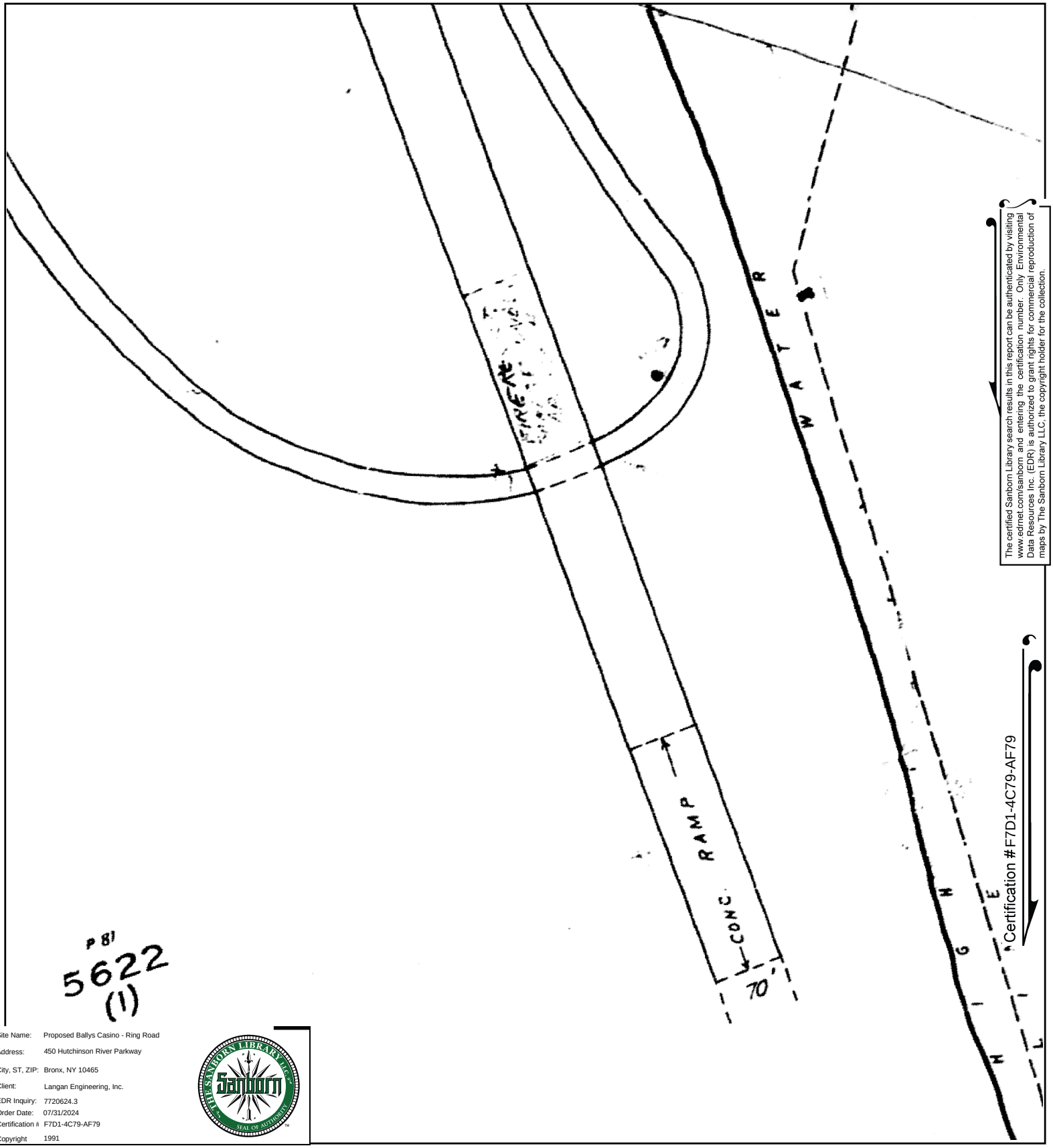

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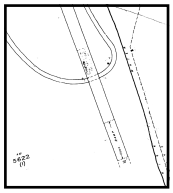

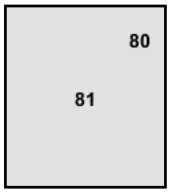

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1988

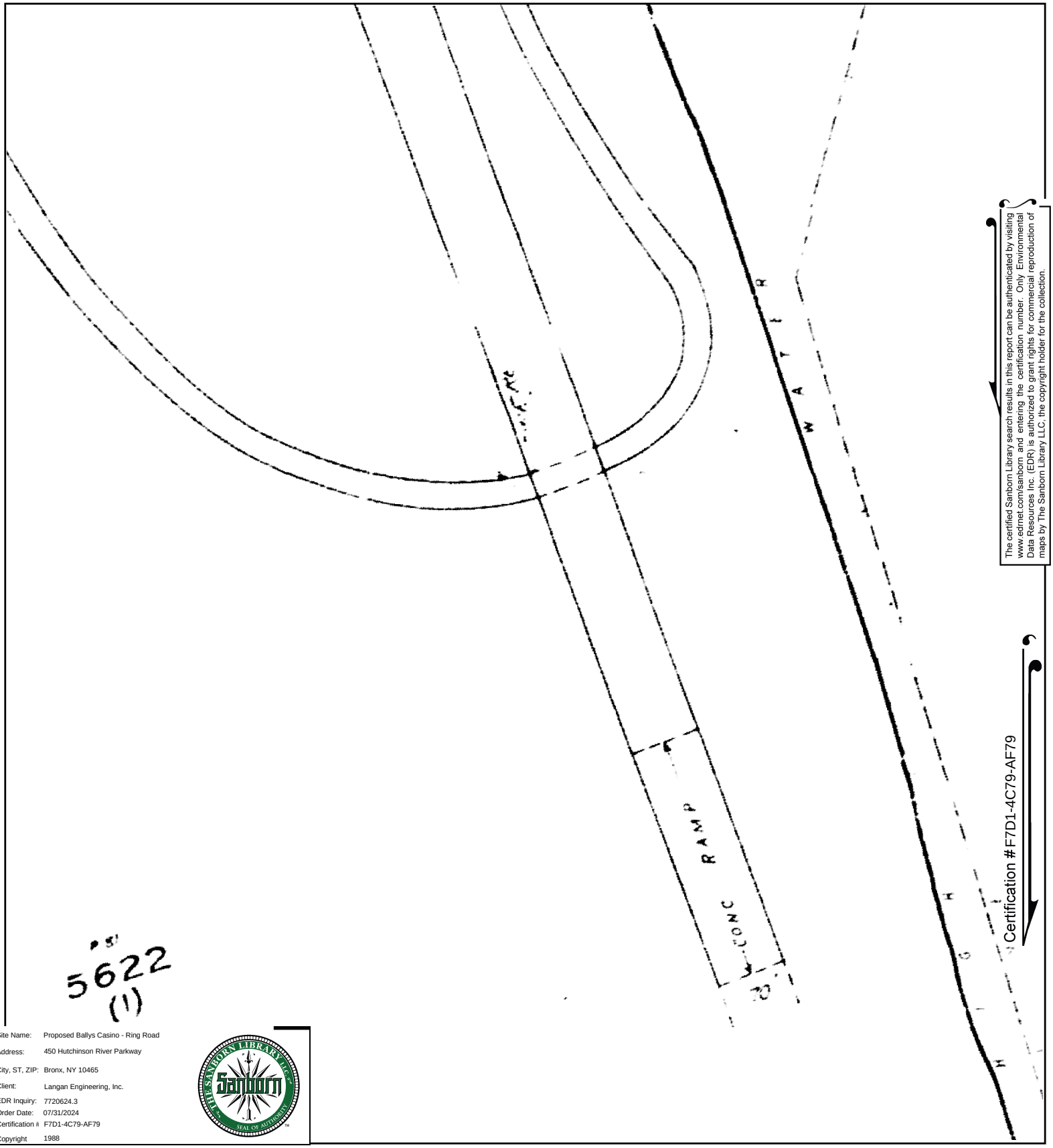

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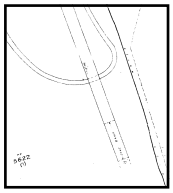

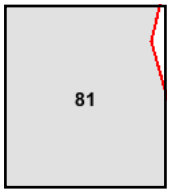

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1986

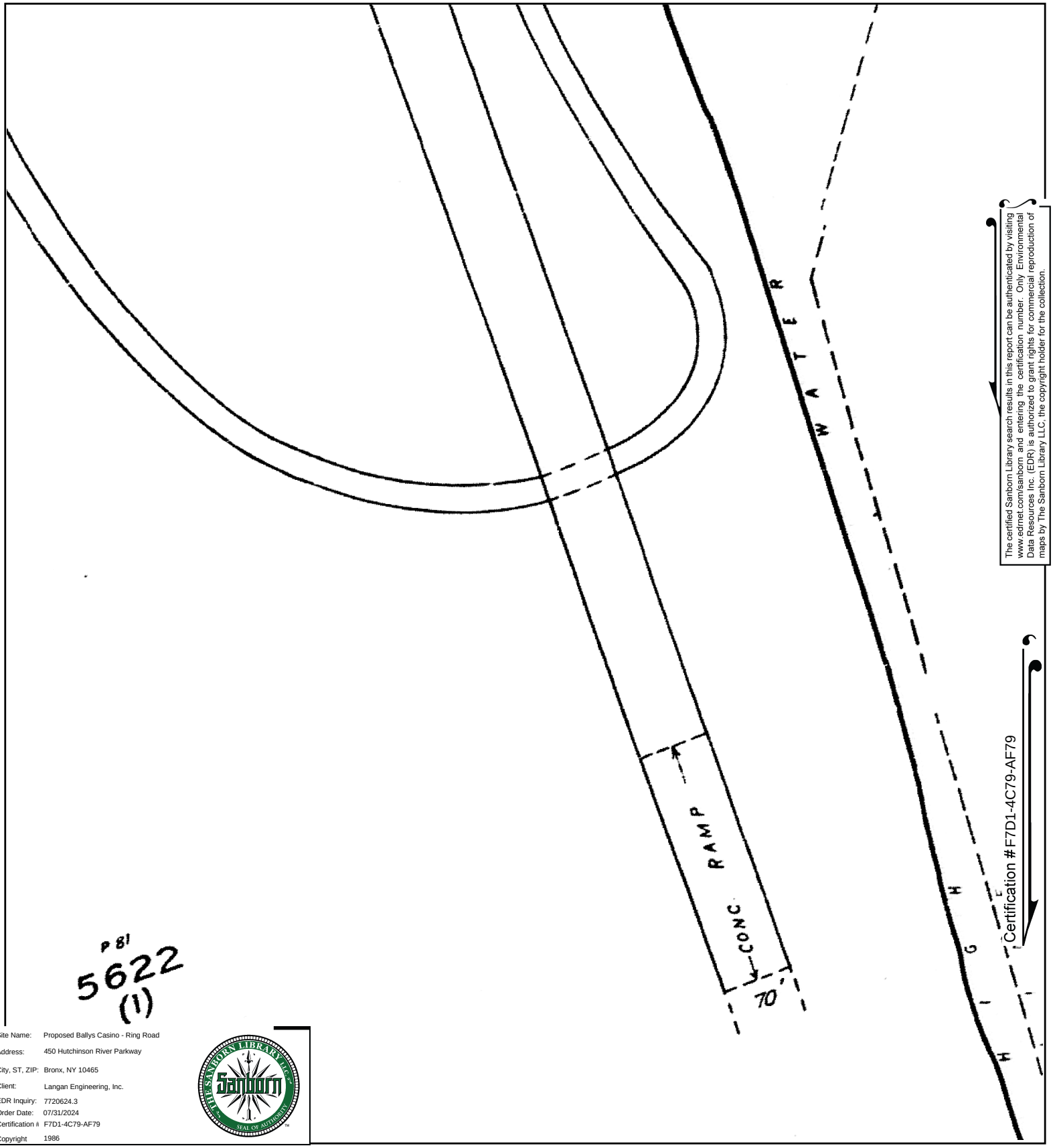

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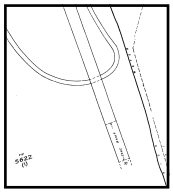

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1983

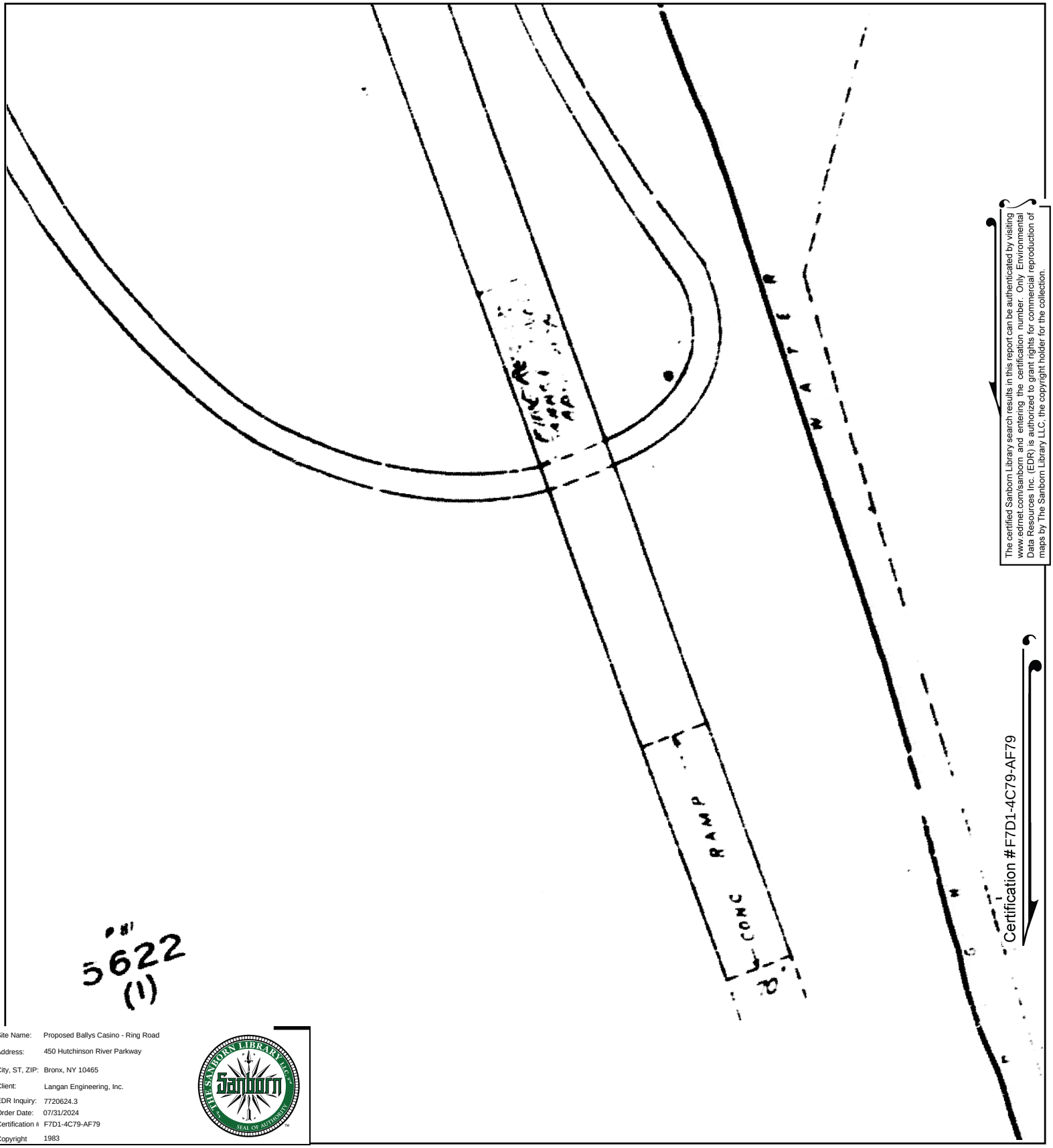

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Certification #	F7D1-4C79-AF79
Copyright	1983

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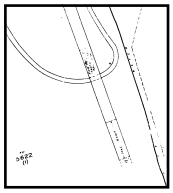

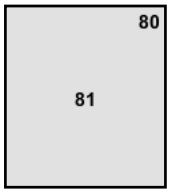

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1981

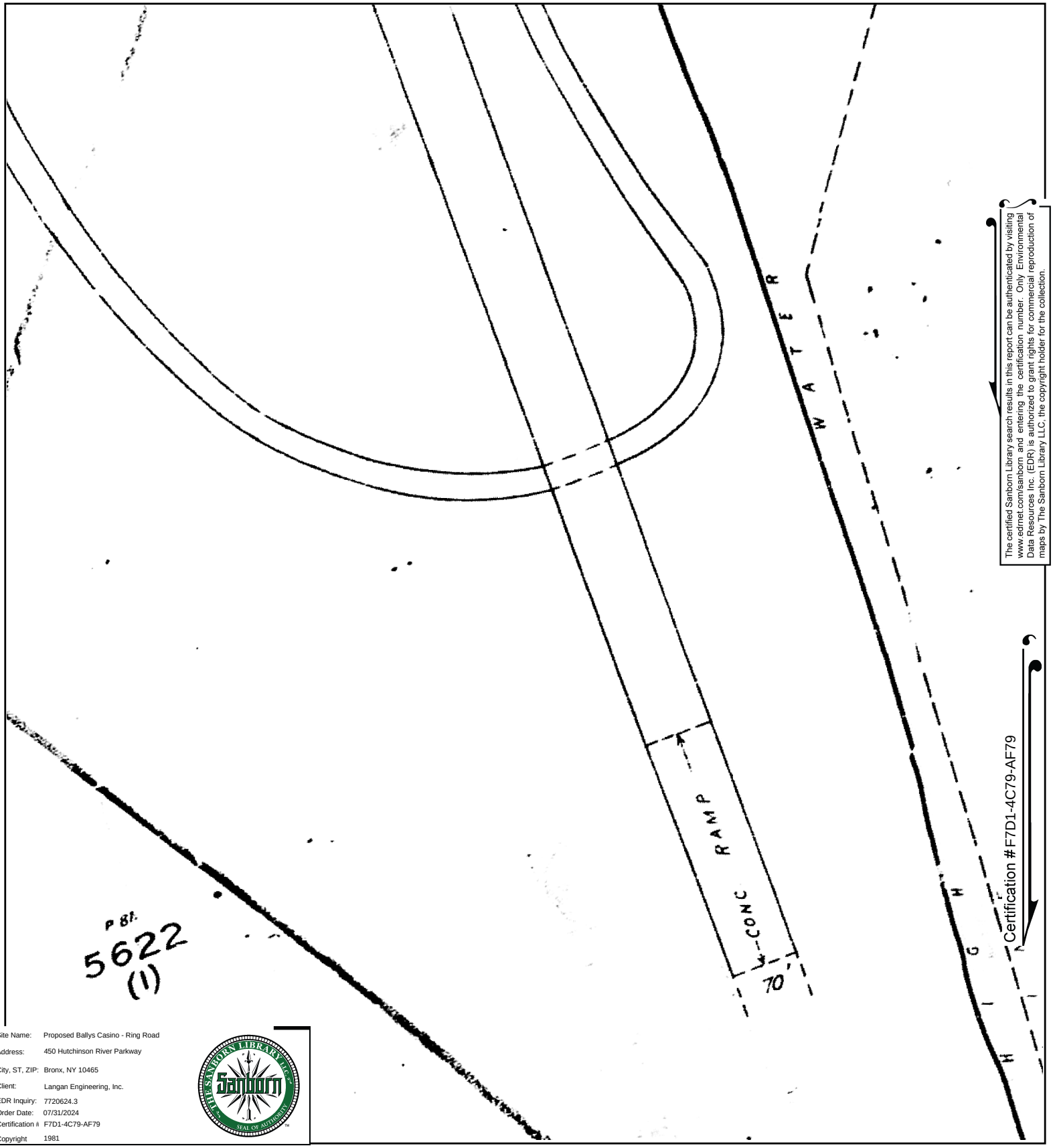

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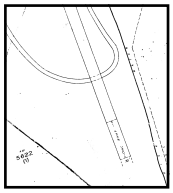

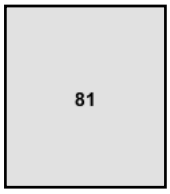

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1978

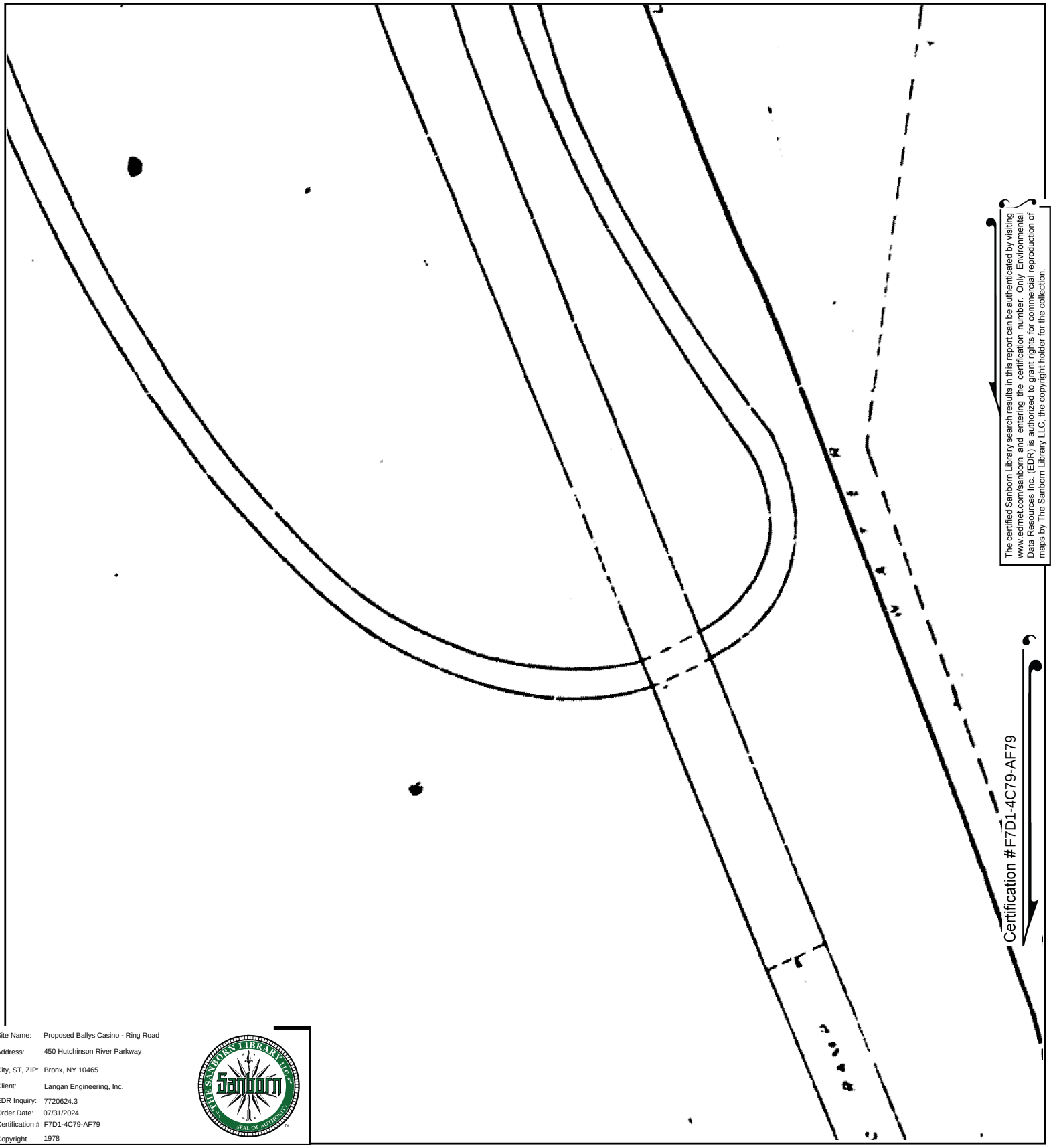

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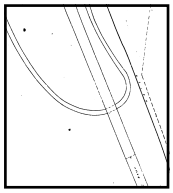

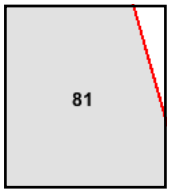

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1977

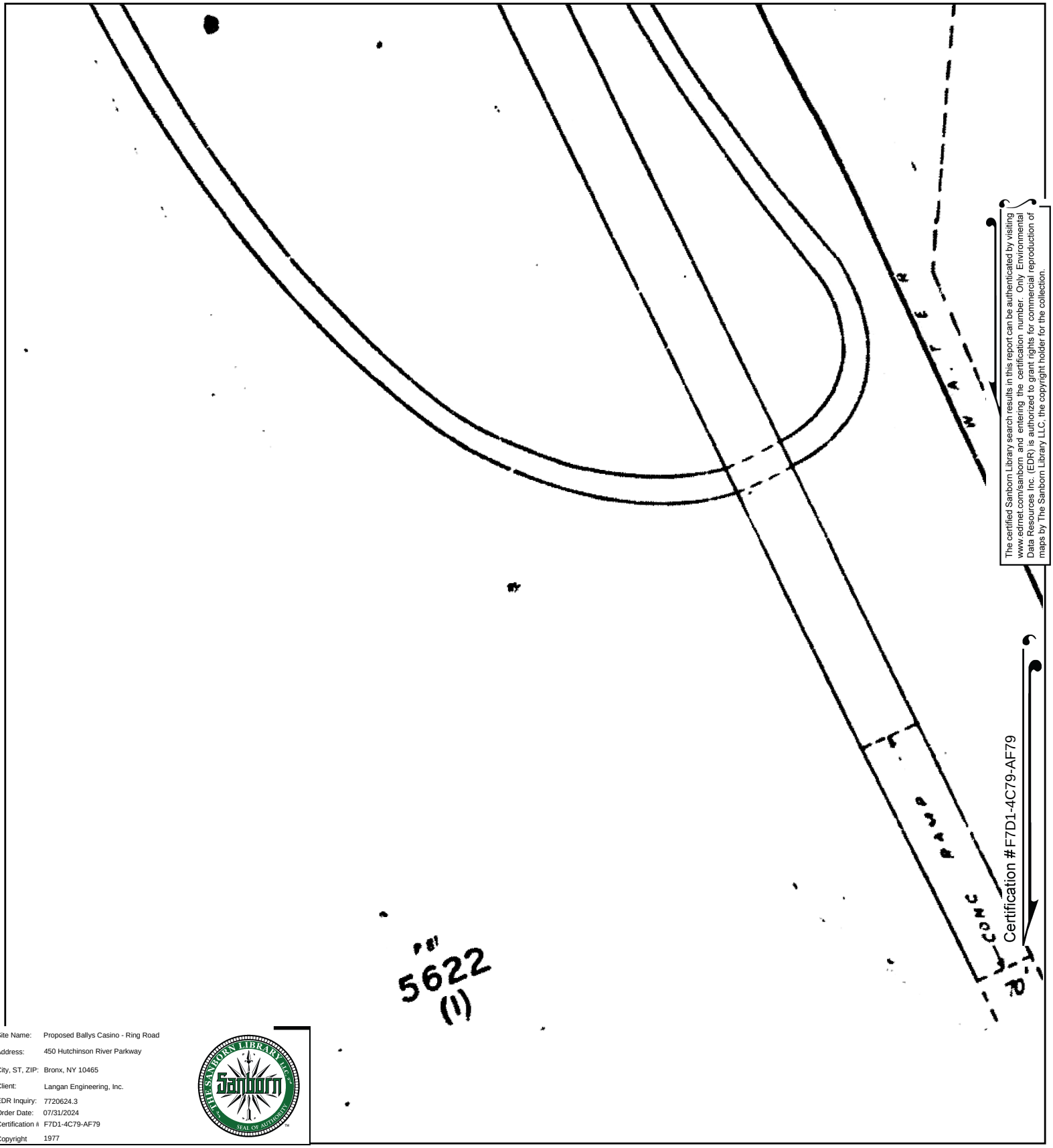

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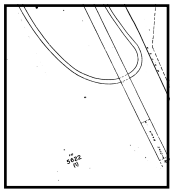

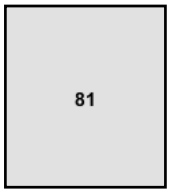

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1967

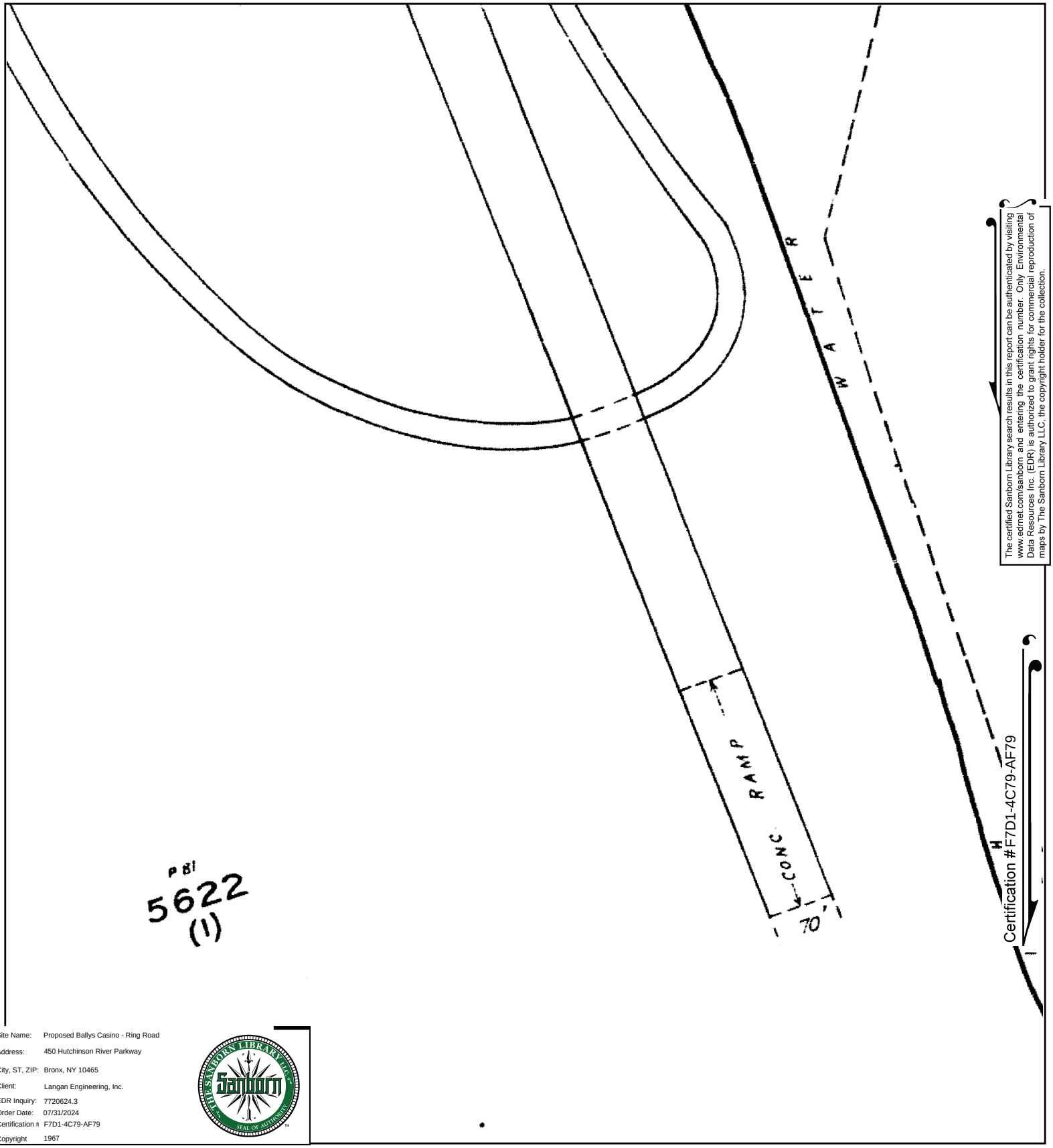

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Copyright	1967

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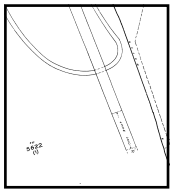

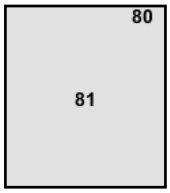

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1950

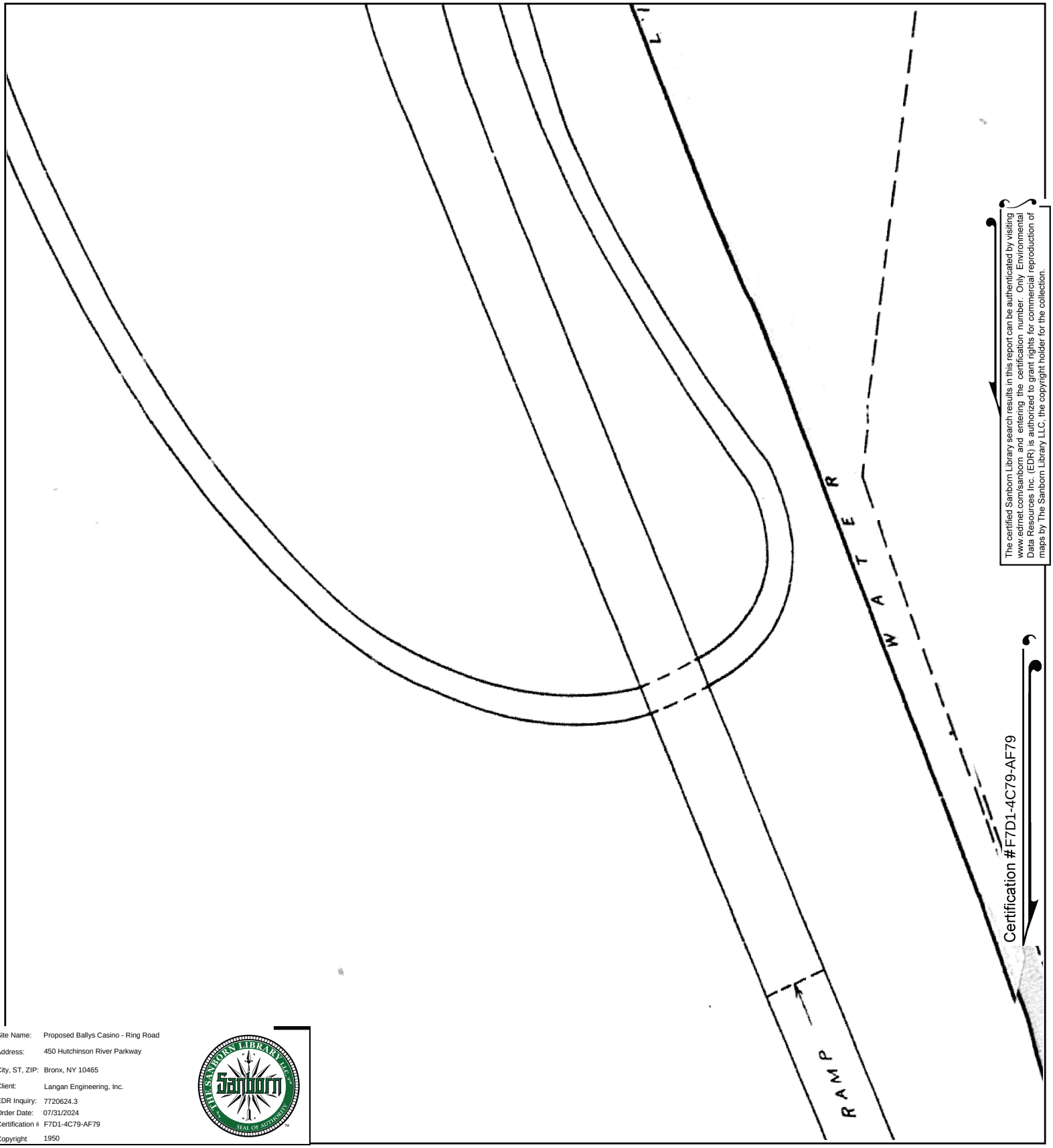

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Copyright 1950

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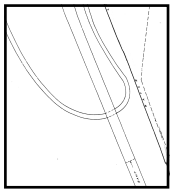

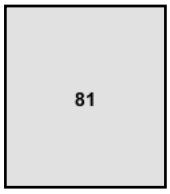

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1930

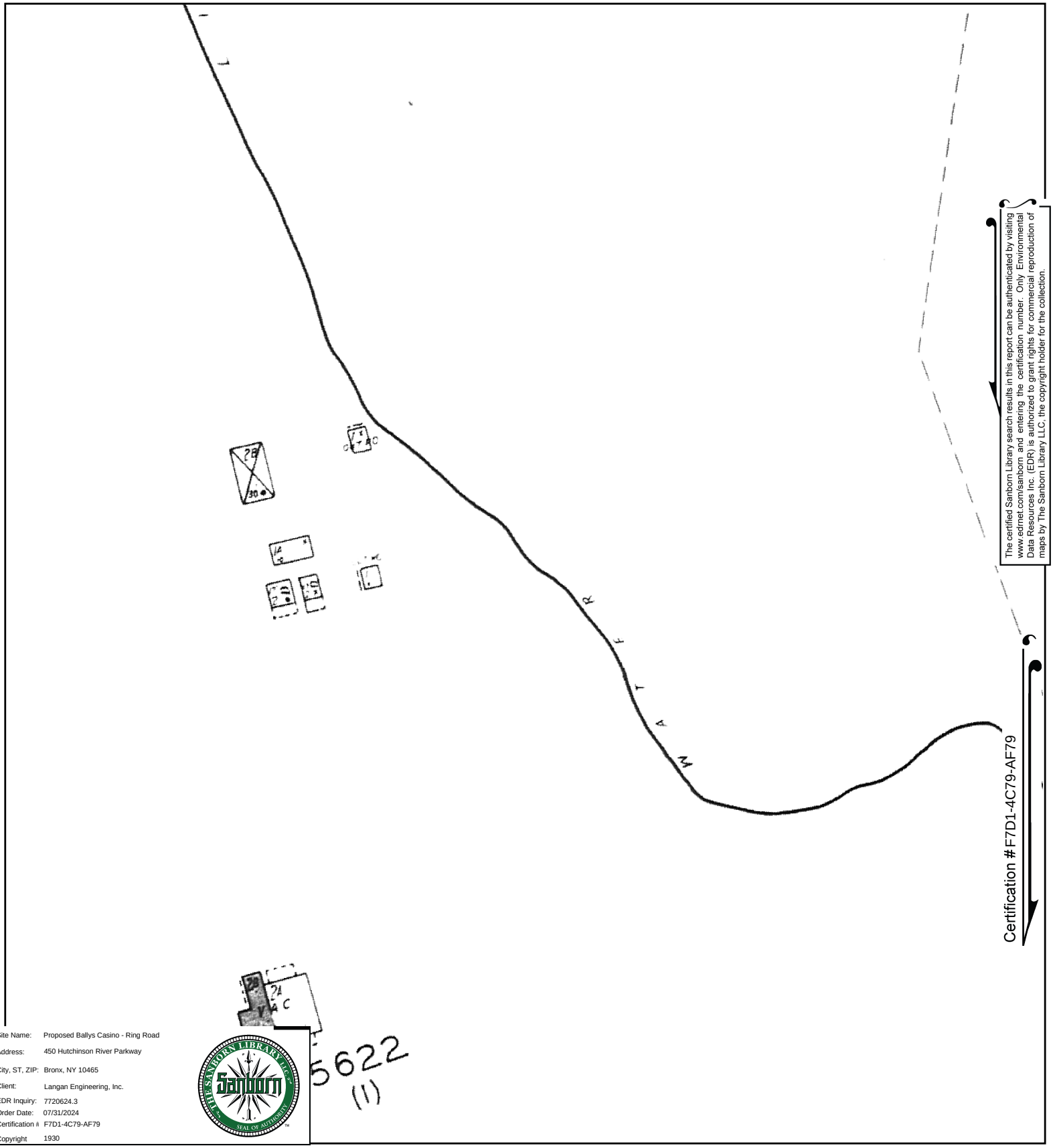

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Copyright	1930

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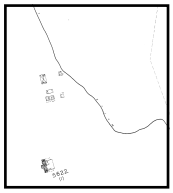

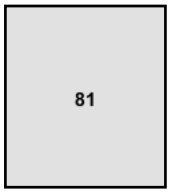

Volume 21, Sheet 79
Volume 21, Sheet 81

N

Certified Sanborn® Map

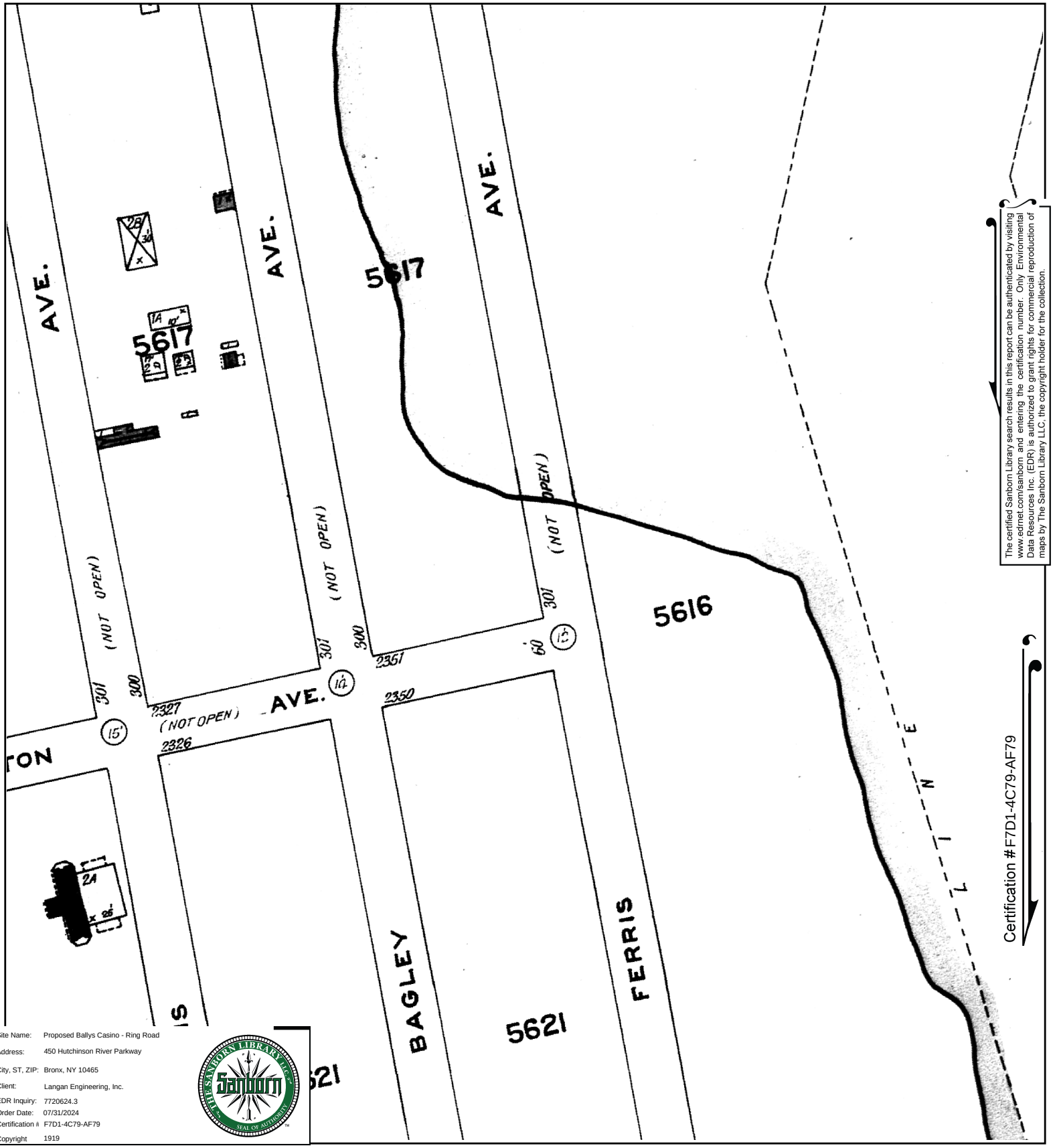

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1919

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

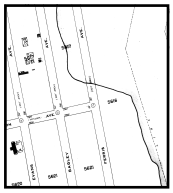

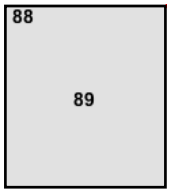

Volume 17, Sheet 88
Volume 17, Sheet 89

0 Feet 150 300 600

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Certified Sanborn® Map

1908

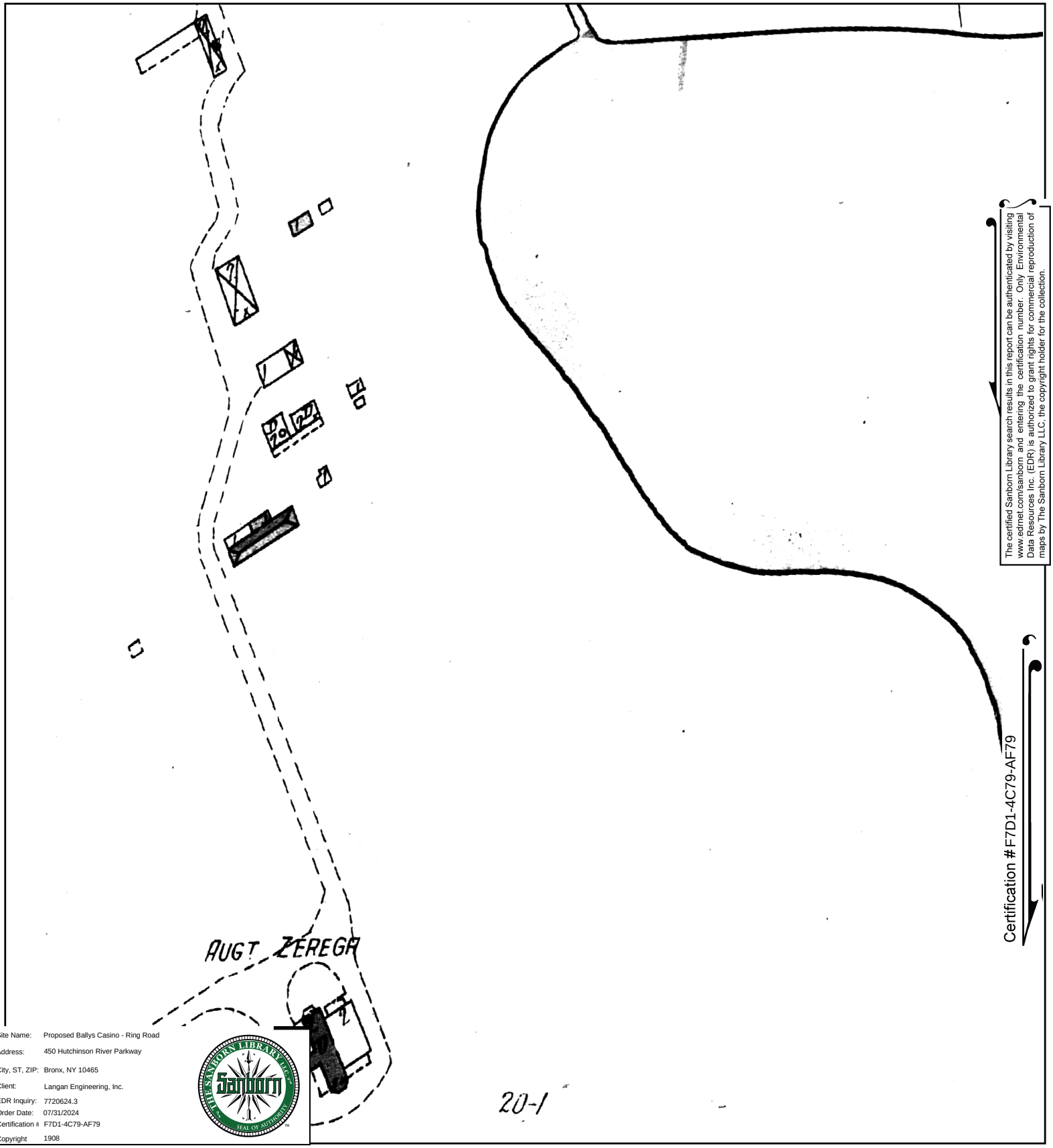

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Certification #F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1908

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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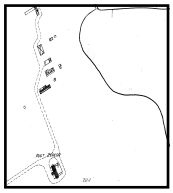

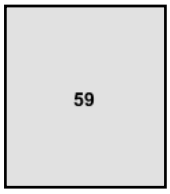

Volume A, Sheet 59

N

Certified Sanborn® Map

1898

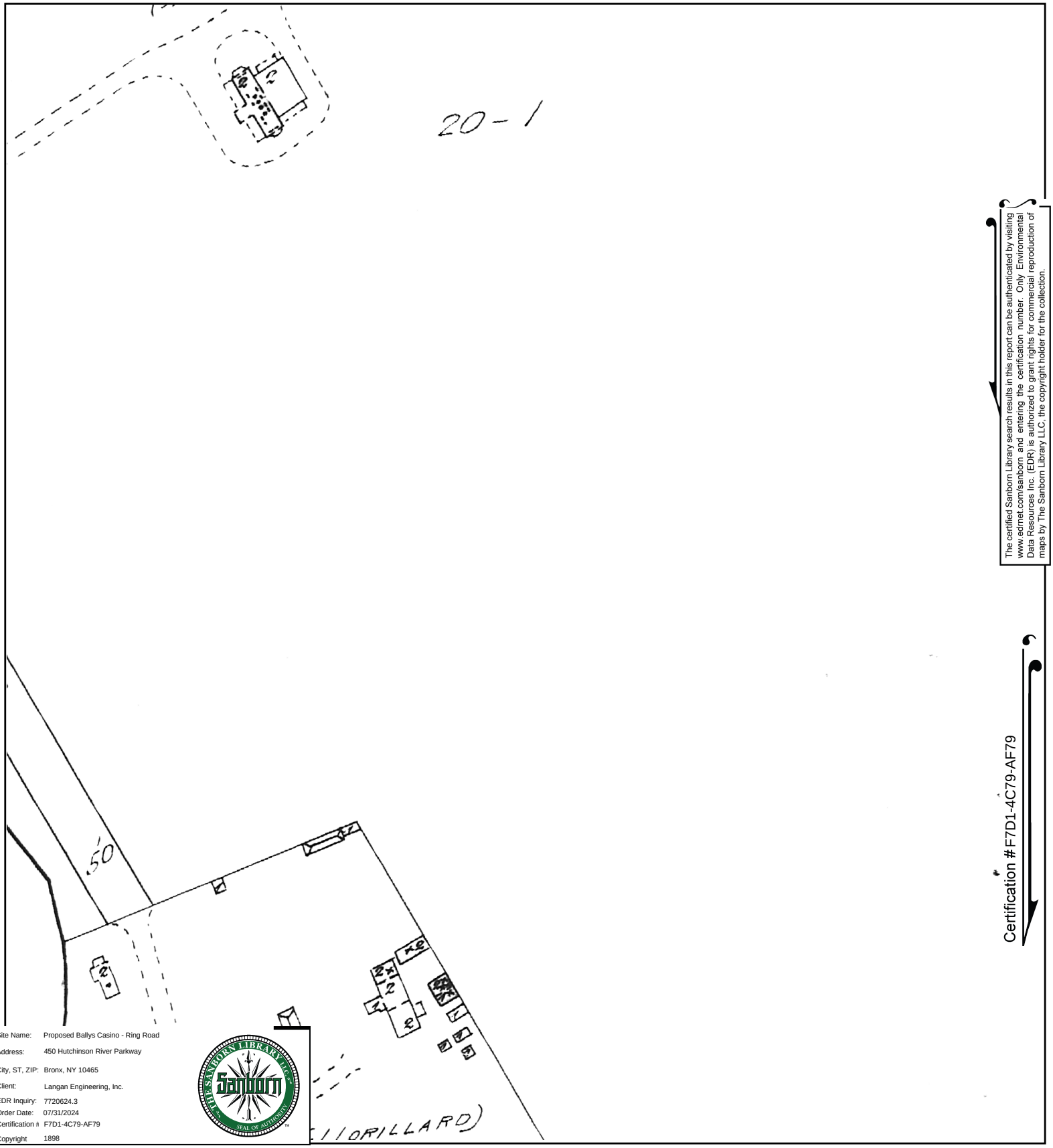

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Certification #F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1898

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600

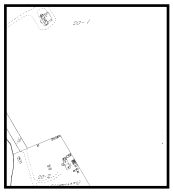

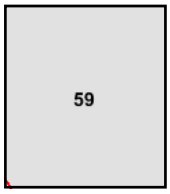

Volume A, Sheet 59

N

Proposed Ballys Casino - Ring Road

450 Hutchinson River Parkway

Bronx, NY 10465

Inquiry Number: 7720624.4

July 29, 2024

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

07/29/24

Site Name:	Client Name:
Proposed Ballys Casino - Ring	Langan Engineering, Inc.
450 Hutchinson River Parkway	360 W. 31st Street
Bronx, NY 10465	New York, NY 10001
EDR Inquiry # 7720624.4	Contact: Kaitlyn Gioia

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Langan Engineering, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	170773001	**Latitude:**	40.813693 40° 48' 49" North
Project:	Prpsd Bally s Casino - Ring Rd	**Longitude:**	-73.835803 -73° 50' 9" West
		UTM Zone:	Zone 18 North
		UTM X Meters:	598186.93
		UTM Y Meters:	4518727.59
		Elevation:	16.00' above sea level

Maps Provided:

2019	1900
2016	1898
2013	1897
1995	
1979	
1966	
1955	
1947	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2019 Source Sheets

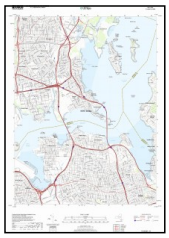

Flushing
2019
7.5-minute, 24000

2016 Source Sheets

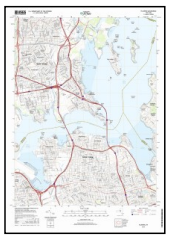

Flushing
2016
7.5-minute, 24000

2013 Source Sheets

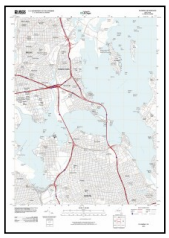

Flushing
2013
7.5-minute, 24000

1995 Source Sheets

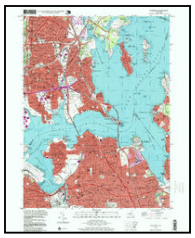

Flushing
1995
7.5-minute, 24000
Aerial Photo Revised 1977

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1979 Source Sheets

Flushing
1979
7.5-minute, 24000
Aerial Photo Revised 1977

1966 Source Sheets

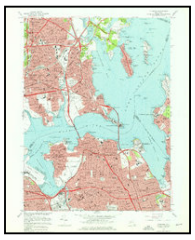

Flushing
1966
7.5-minute, 24000
Aerial Photo Revised 1954

1955 Source Sheets

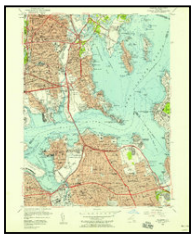

Flushing
1955
7.5-minute, 24000
Aerial Photo Revised 1954

1947 Source Sheets

Flushing
1947
7.5-minute, 24000
Aerial Photo Revised 1942

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1900 Source Sheets

Harlem
1900
15-minute, 62500

1898 Source Sheets

Harlem
1898
15-minute, 62500

1897 Source Sheets

Harlem
1897
15-minute, 62500

Historical Topo Map

2019

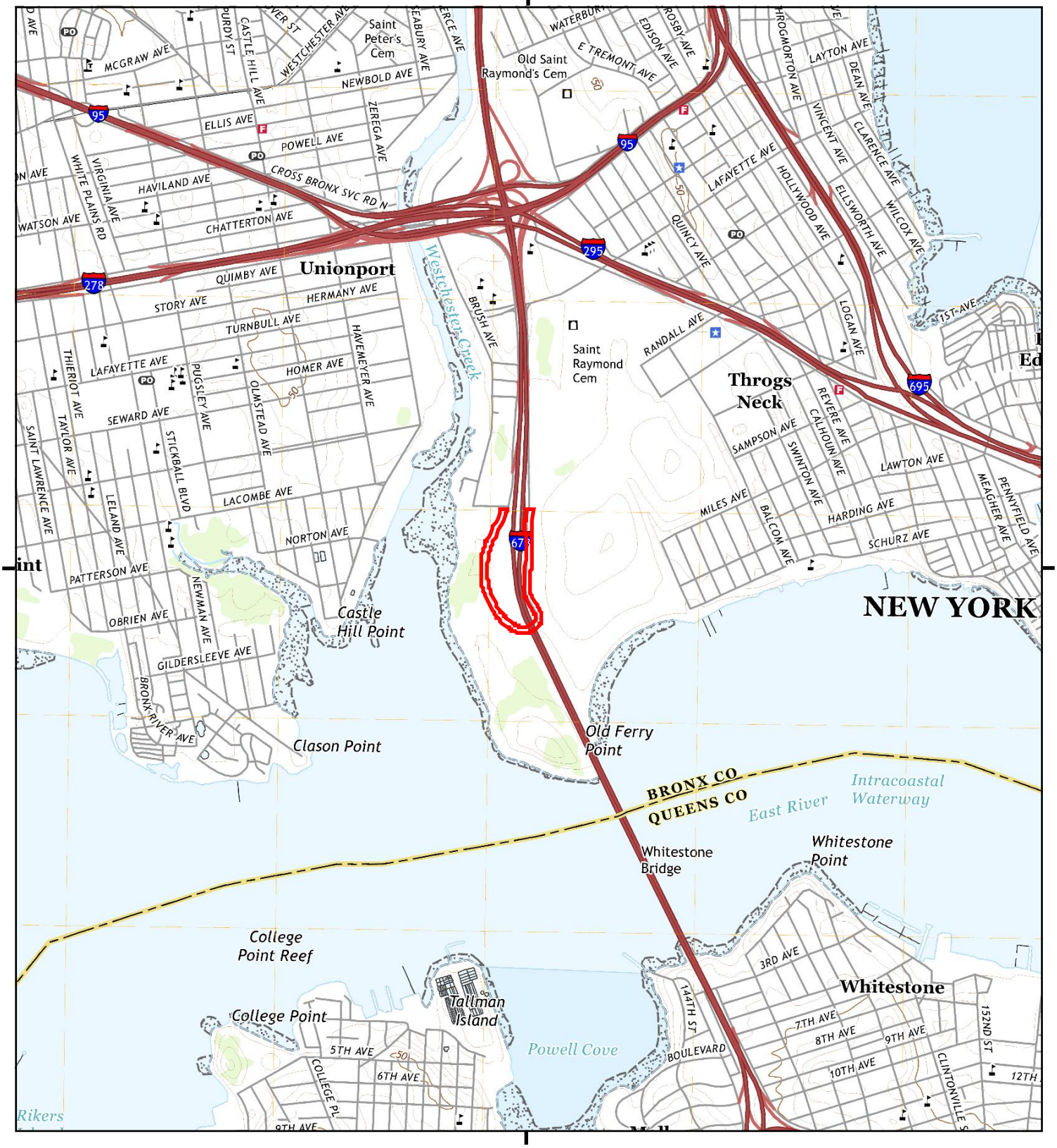

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 2019, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

2016

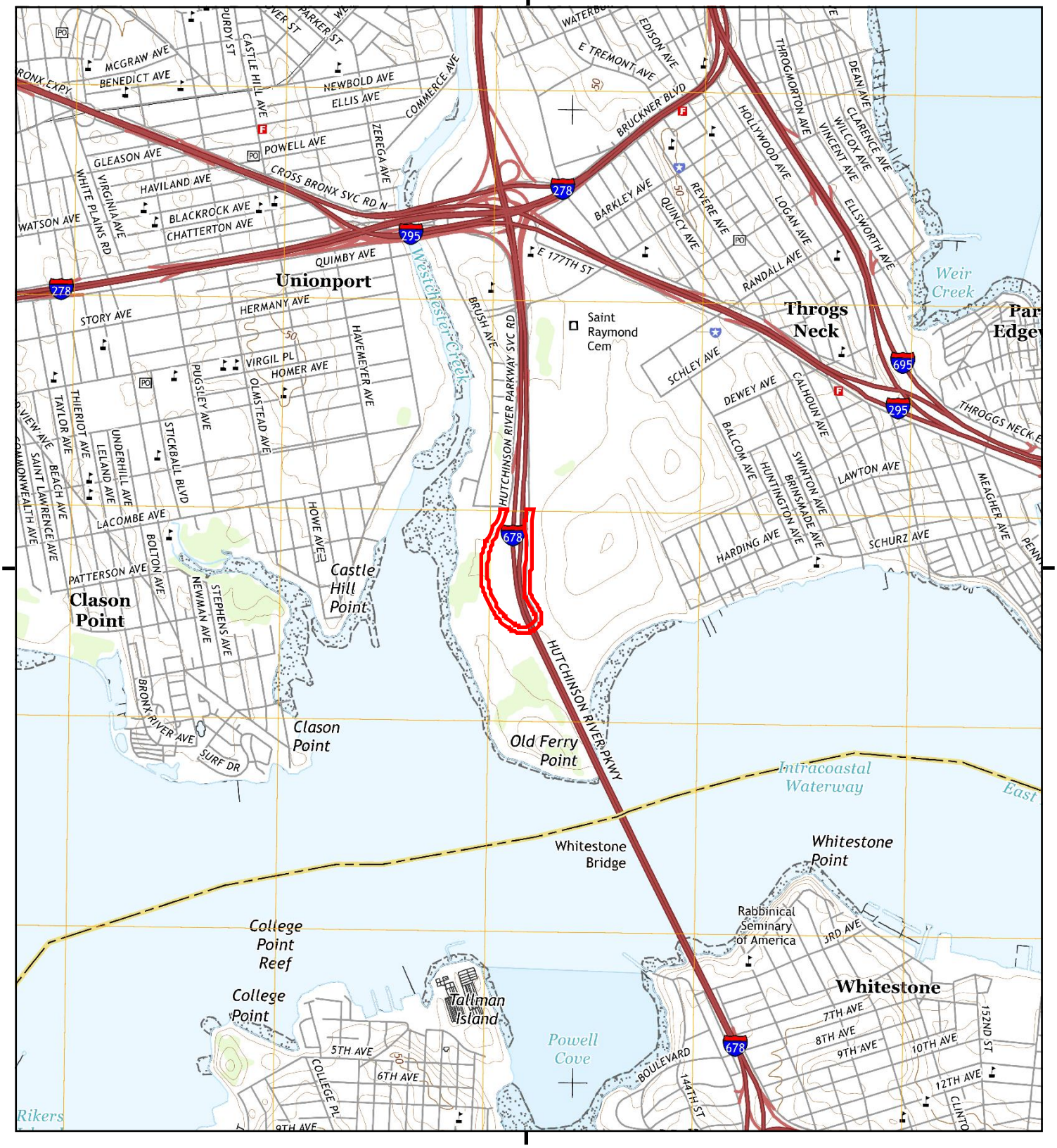

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 2016, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

2013

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 2013, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1995

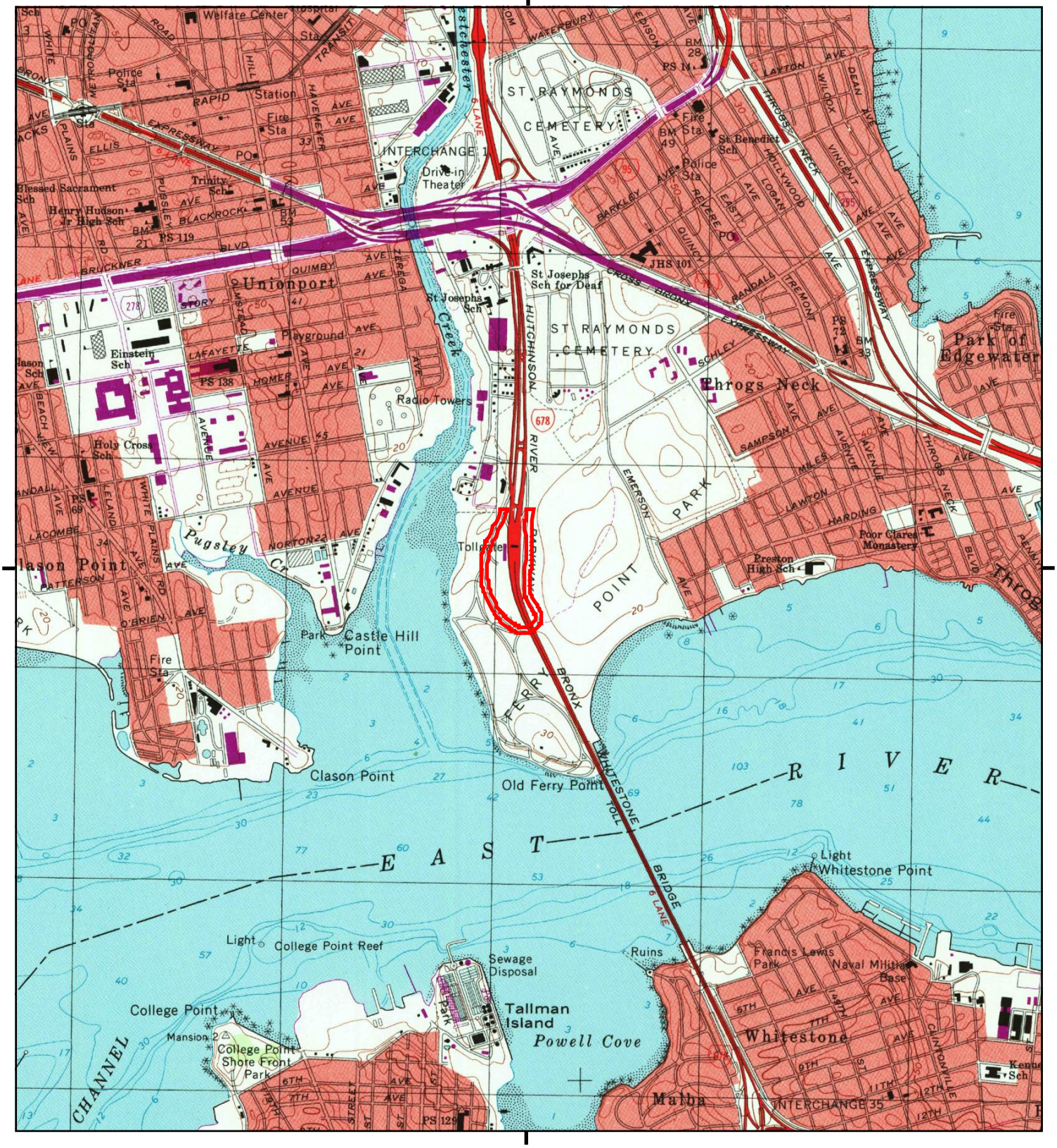

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 1995, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1979

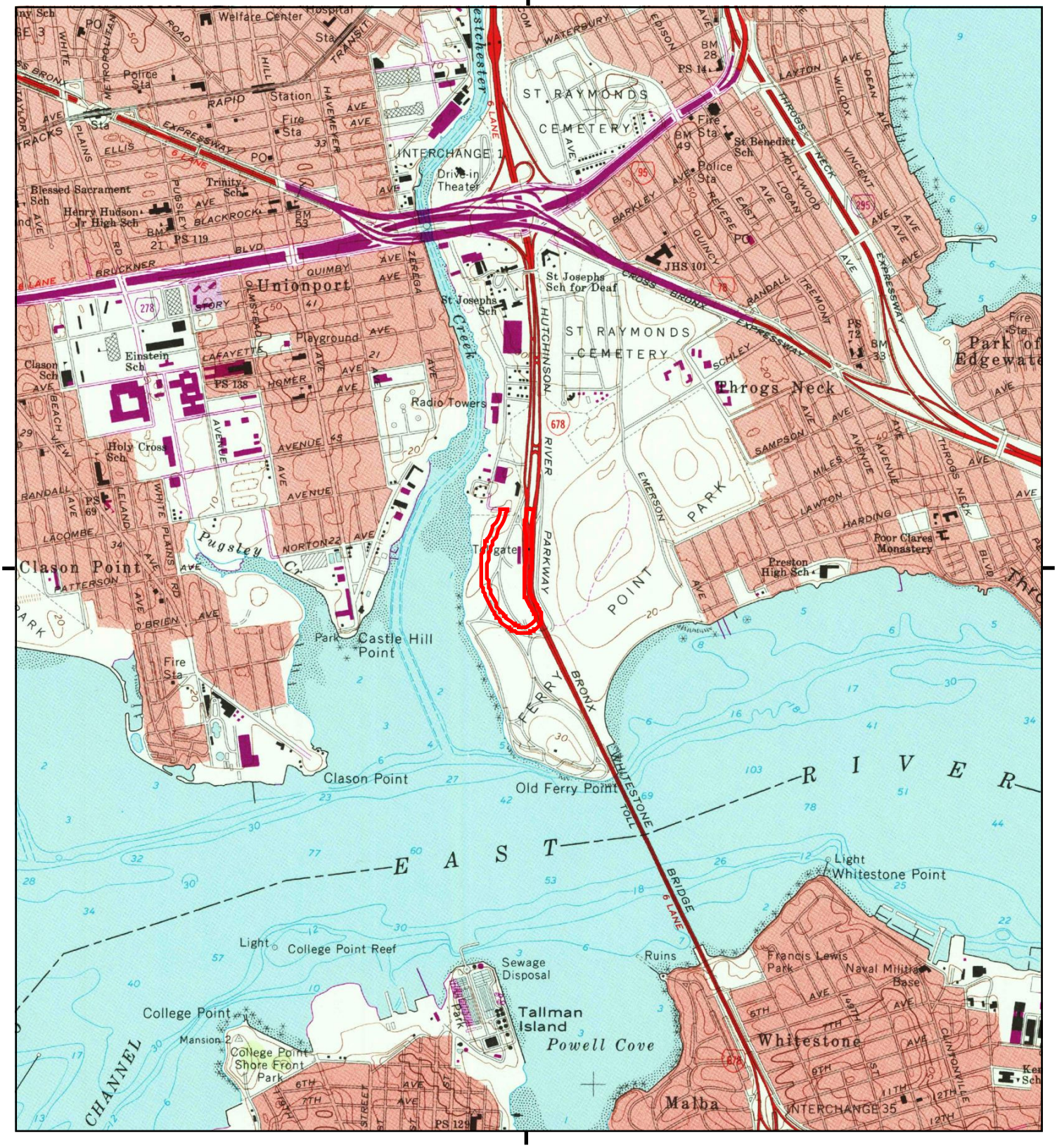

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 1979, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1966

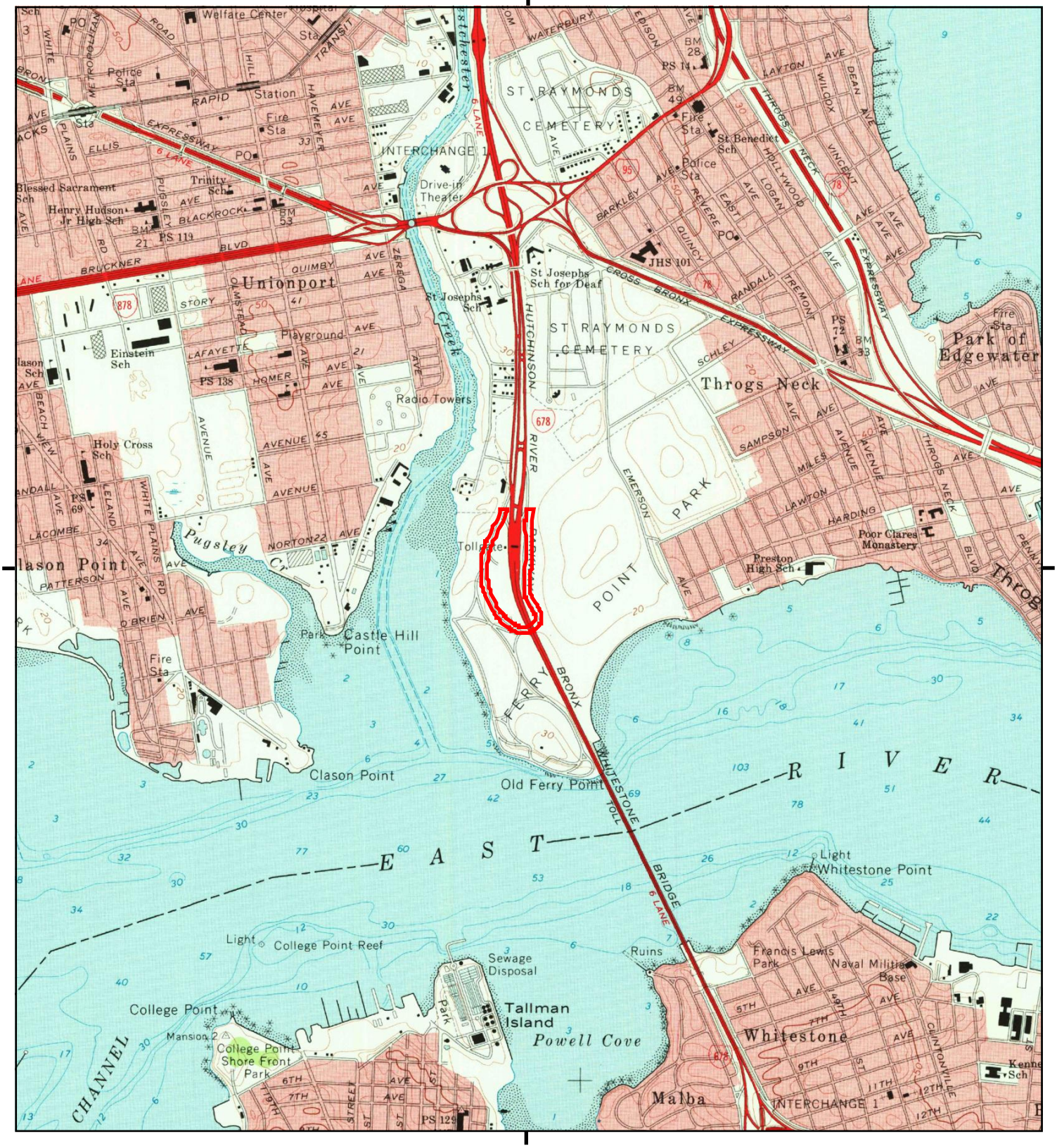

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 1966, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1955

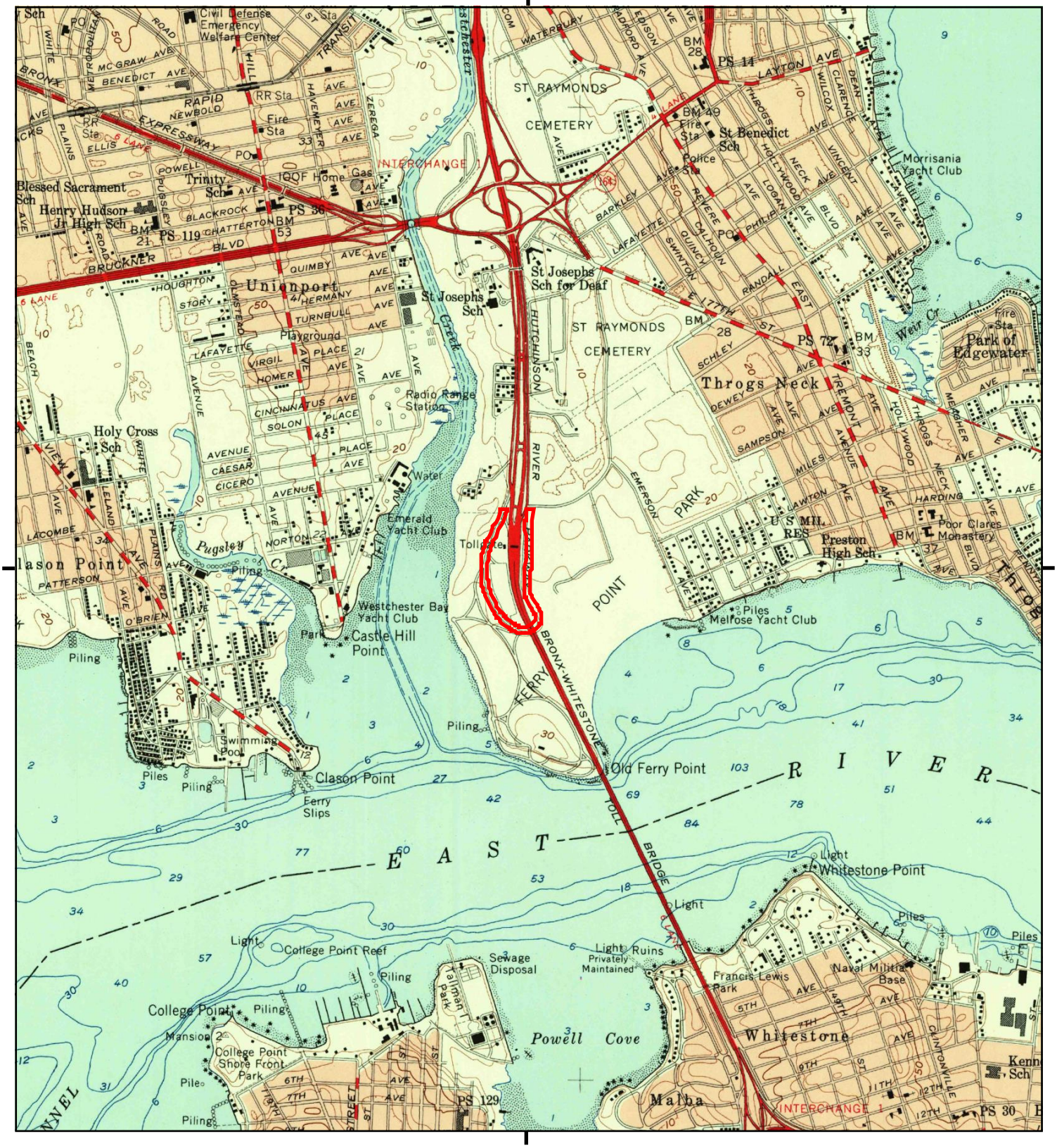

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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 1955, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1947

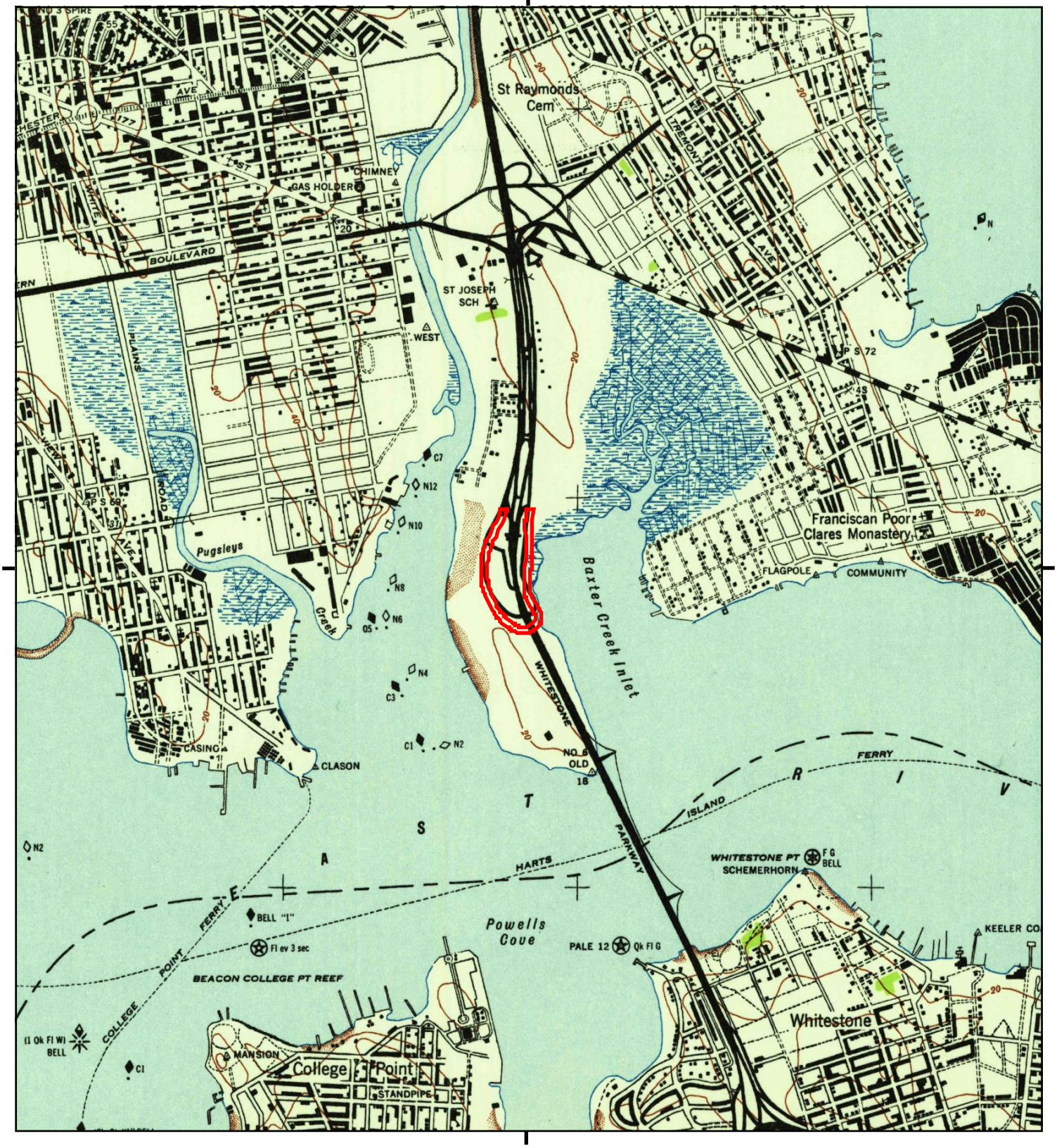

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 1947, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1900

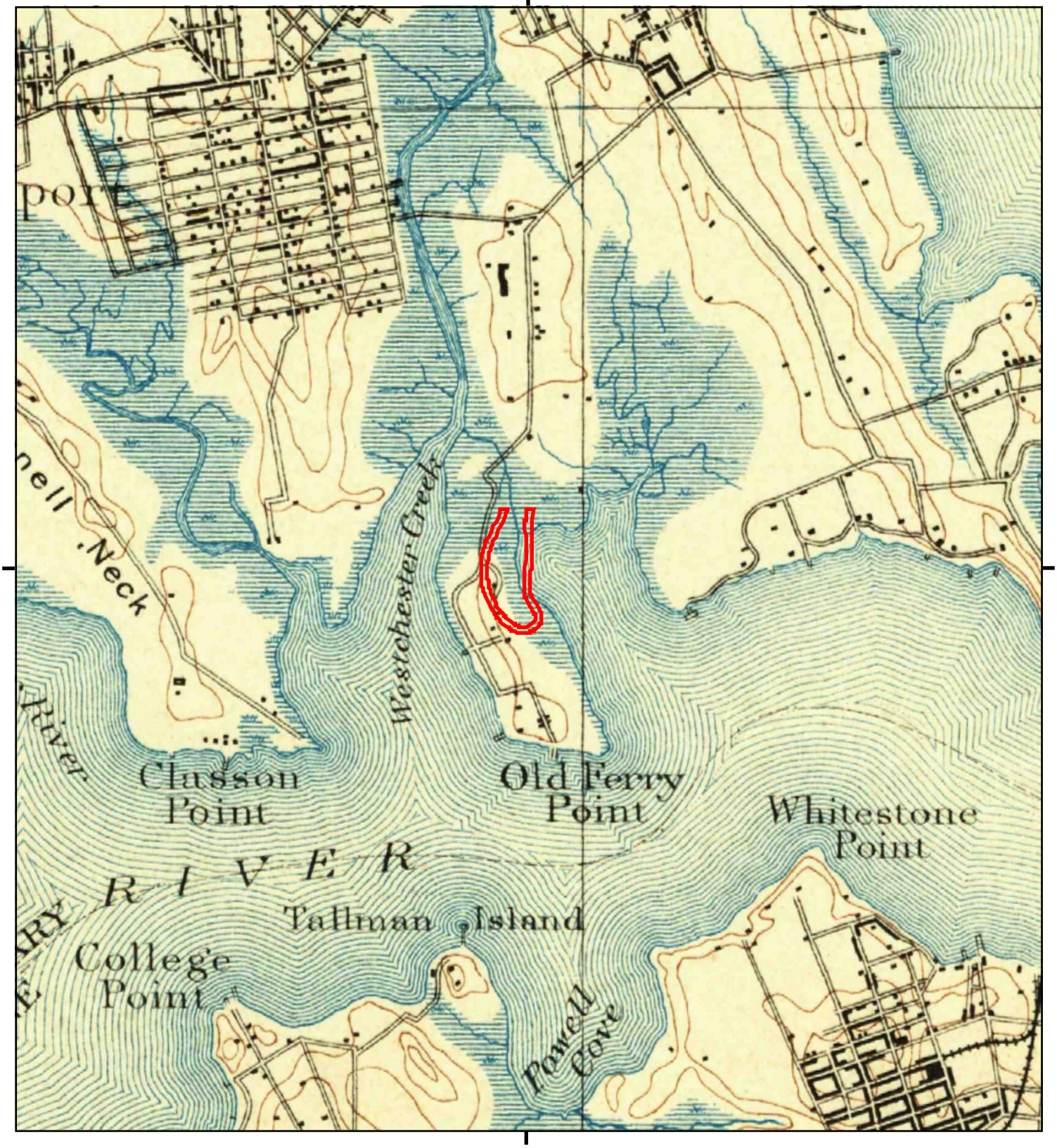

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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Harlem, 1900, 15-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1898

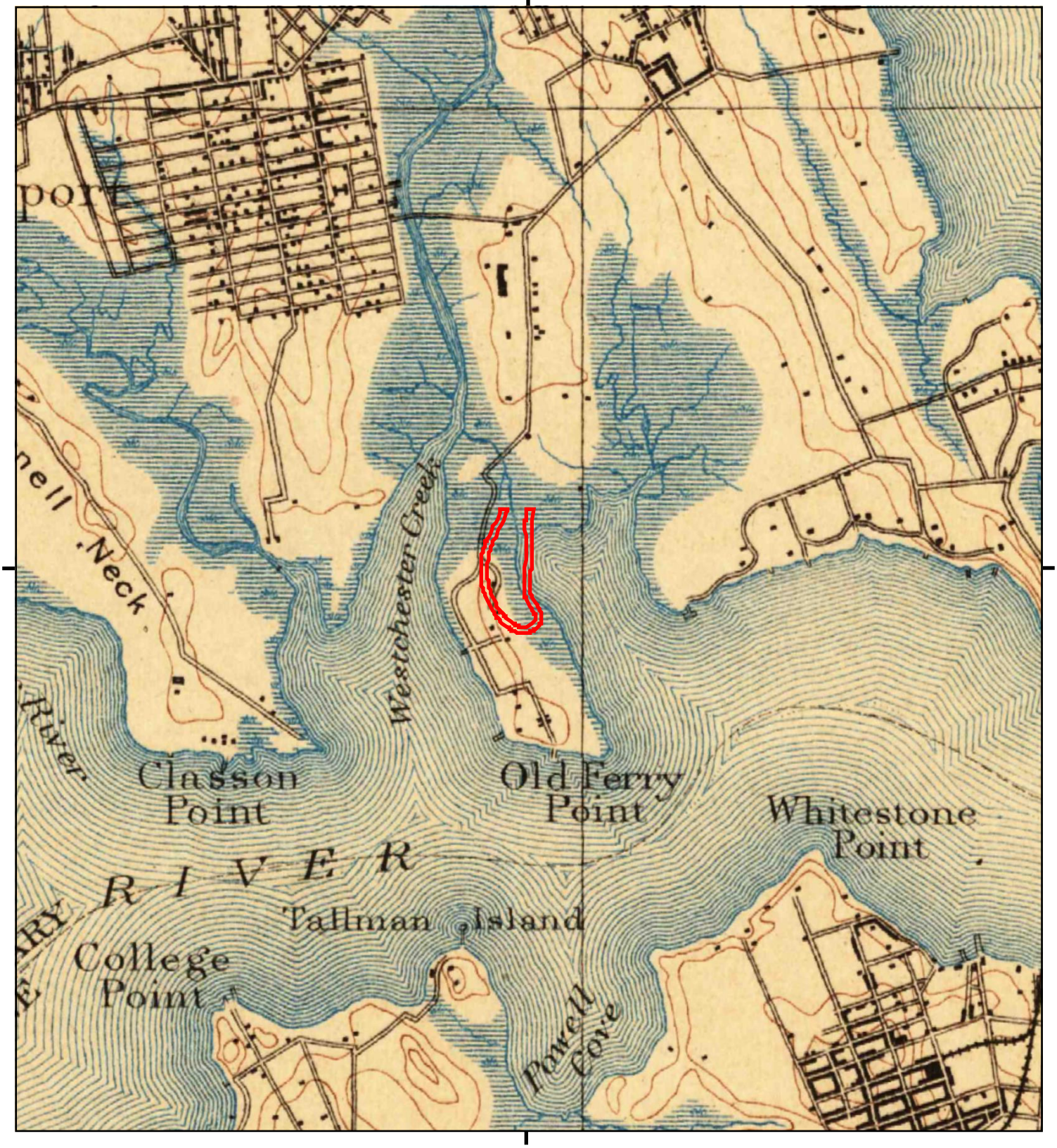

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Harlem, 1898, 15-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1897

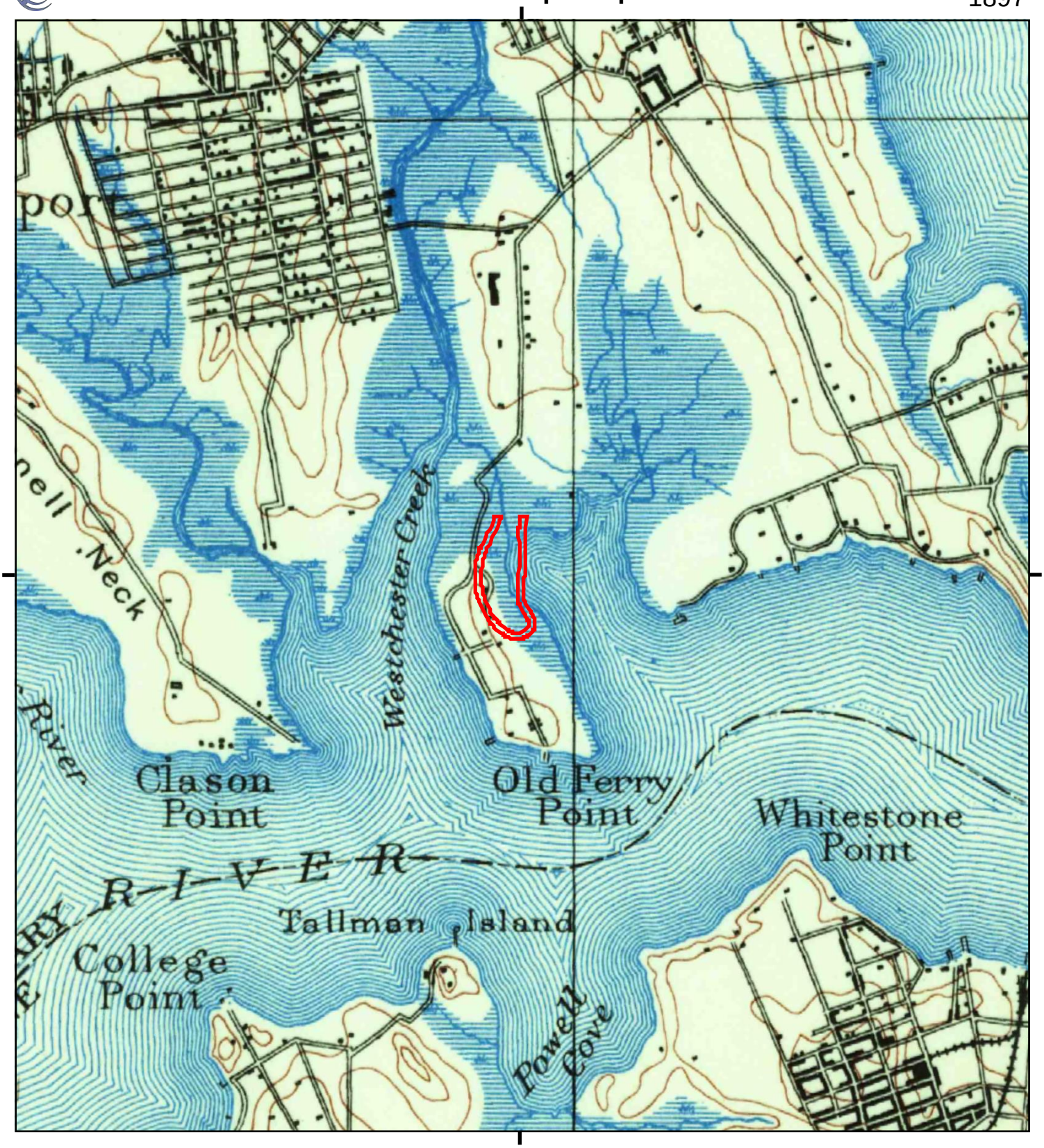

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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Harlem, 1897, 15-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Proposed Ballys Casino - Ring Road
450 Hutchinson River Parkway
Bronx, NY 10465

Inquiry Number: 7720624.5
July 30, 2024

The EDR-City Directory Abstract

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at approximately five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1927 through current. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 2640 feet of the target property.

Summary information obtained is provided in the text of this report.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2020	EDR Digital Archive	-	X	X	-
2017	Cole Information	-	X	X	-
2014	Cole Information	-	X	X	-
2010	Cole Information	-	X	X	-
2005	Cole Information	-	X	X	-
	Hill-Donnelly Information Services	-	X	X	-
2000	Cole Information	-	X	X	-
	Cole Information Services	-	X	X	-
1995	Cole Information	-	X	X	-
1993	New York Telephone	-	X	X	-
1992	Cole Information	-	X	X	-
1983	New York Telephone	-	X	X	-
1976	New York Telephone Company	-	X	X	-
1971	New York Telephone	-	X	X	-
1965	New York Telephone Company	-	X	X	-
1961	New York Telephone	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1956	New York Telephone	-	X	X	-
1949	New York Telephone	-	X	X	-
1940	New York Telephone	-	X	X	-
1931	Manhattan and Bronx Directory Publishing Company Residential Directory	-	X	X	-
1927	New York Telephone	-	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
500 Hutchinson River Parkway	Client Entered	
492 Hutchinson River Pkwy	Client Entered	
525 Hutchinson River Pkwy	Client Entered	
555 Hutchinson River Pkwy	Client Entered	
545 Brush Ave	Client Entered	
550 Brush Ave	Client Entered	
650 Brush Ave	Client Entered	
699 Brush Ave	Client Entered	
3 Schley Ave	Client Entered	
1 Schley Ave	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

450 Hutchinson River Parkway
Bronx, NY 10465

FINDINGS DETAIL

Target Property research detail.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

BRUSH AVE

500 BRUSH AVE

Year	Uses	Source
1993	ARKAY ASSOCIATES INC	New York Telephone
	BCD MASONRY INC	New York Telephone
	DECON MECHANICAL CONTRACTORS	New York Telephone
	DECON PLUMBING INC	New York Telephone
	JMM MASON INC	New York Telephone

509 BRUSH AVE

Year	Uses	Source
1983	KOFSKY IRA J	New York Telephone
1976	SULLIVAN WM L	New York Telephone Company
1971	SULLIVAN WM L	New York Telephone

510 BRUSH AVE

Year	Uses	Source
1993	FABRICAS PEIXE CORP	New York Telephone
	SALVATI FOODS PRODS INC	New York Telephone

515 BRUSH AVE

Year	Uses	Source
1993	MILLER MARY	New York Telephone
1983	ELSASSEI CHAS J	New York Telephone
1976	ELSASSER CHAS J	New York Telephone Company
1971	ELSASSER CHAS J	New York Telephone
1965	ELSASSER CHAS J	New York Telephone Company

529 BRUSH AVE

Year	Uses	Source
1993	BARKER JOHN	New York Telephone

FINDINGS

Year	Uses	Source
1993	MARTIN J	New York Telephone
1976	DYNAMIC PAINTG & DECRATG CORP	New York Telephone Company
	EAST COAST PAINTING CORP	New York Telephone Company
1965	JENSEN E WM	New York Telephone Company

531 BRUSH AVE

Year	Uses	Source
1976	ASCENZO & SONS INC	New York Telephone Company
1971	ASCENZO & SONS INC	New York Telephone

535 BRUSH AVE

Year	Uses	Source
1965	ASCENZO & SONS INC	New York Telephone Company

536 BRUSH AVE

Year	Uses	Source
1965	WHITESTONE REALTY CORP	New York Telephone Company

550 BRUSH AVE

Year	Uses	Source
1993	SPIELBERG L & SONS INC	New York Telephone
1983	SPIELBERG L & SONS INC	New York Telephone
1976	SPIELBERG L & SONS INC	New York Telephone Company
1971	SISTO & DIMAIO INC	New York Telephone
	SPIELBERG L & SONS INC	New York Telephone

666 BRUSH AVE

Year	Uses	Source
1983	BIG APPLE WRECKING CORP	New York Telephone

680 BRUSH AVE

Year	Uses	Source
1976	CLEARY ANNA MRS	New York Telephone Company
1971	CLEARY ANNA MRS	New York Telephone
1965	CLEARY ANNA MRS	New York Telephone Company

FINDINGS

682 BRUSH AVE

Year	Uses	Source
1983	MURPHY EDWARD V	New York Telephone
1976	MURPHY EDWARD R	New York Telephone Company
	MURPHY MAUREEN	New York Telephone Company
1971	MURPHY EILEEN V	New York Telephone
1965	MAC INTYRE ROBT W	New York Telephone Company

BRUSH AVE

500 BRUSH AVE

Year	Uses	Source
2020	CABLE VISION OF NYC	EDR Digital Archive
2010	MATELL CONTRACTING CO INC	Cole Information
2005	Matell Contracting Co Inc	Hill-Donnelly Information Services
	ANDREW C KATZ & ASSOCIATES	Cole Information
2000	MATELL CONTRNG CO	Cole Information
	LIBERTY MECHANICAL CONTRACTORS	Cole Information
	R & R MECHANICAL INCORPORATED	Cole Information
	MATELL CONTRACTING COMPANY INCORPORATED	Cole Information
1995	DECON PLUMBING INC	Cole Information
	MATELL CONTRACTING CO INC	Cole Information
	DECON MECHANICAL CONTRACTORS	Cole Information
	R & R MECHANICAL INC	Cole Information
1992	DECON PLUMBING INC	Cole Information
	BCD MASONRY INC	Cole Information
	JMM MASON INC	Cole Information
	ARKAY ASSOCIATES INC	Cole Information
	DECON MECHANICAL CONTRACTORS	Cole Information
	MITTLEMAN, PHILIP A, ATTY	Cole Information

501 BRUSH AVE

Year	Uses	Source
2005	JOSE NUNEZ	Cole Information

FINDINGS

504 BRUSH AVE

Year	Uses	Source
2005	h Carey L P A	Hill-Donnelly Information Services
2000	CAREY LP	Cole Information
	CAREY LP	Cole Information
1995	CARE 4	Cole Information

509 BRUSH AVE

Year	Uses	Source
2020	MICHAEL PEREZ	EDR Digital Archive
	ROBERT HERNANDEZ	EDR Digital Archive
2017	ROBERT HERNANDEZ	Cole Information
	DESIRE PEREZ	Cole Information
2014	TUPAC HERNANDEZ	Cole Information
	DESIRE PEREZ	Cole Information
2010	ANN DELGADO	Cole Information
2005	OCCUPANT UNKNOWN	Cole Information
	Mercado Crystal V	Hill-Donnelly Information Services
2000	DAVID MERCADO	Cole Information
	RENE MERCADO	Cole Information
	OCCUPANT UNKNOWN	Cole Information

510 BRUSH AVE

Year	Uses	Source
2005	NCL	Hill-Donnelly Information Services
1995	FABRICAS PEIXE CORP	Cole Information
1992	SALVATI FOODS PRODS INC	Cole Information
	FABRICAS PEIXE CORP	Cole Information

515 BRUSH AVE

Year	Uses	Source
2020	LET ME BUILD LLC	EDR Digital Archive
	JAMES MILLER	EDR Digital Archive
	DREW ROUBLICK	EDR Digital Archive
	JOANNE MILLER	EDR Digital Archive

FINDINGS

Year	Uses	Source
2020	DAISY RODRIGUEZ	EDR Digital Archive
2014	PAUL MILLER	Cole Information
2010	J MILLER	Cole Information
2005	PAUL MILLER	Cole Information
	Miller Paul	Hill-Donnelly Information Services
	Miller Paul	Hill-Donnelly Information Services
	Miller Paul Aa	Hill-Donnelly Information Services
	Rodriguez Daisy A	Hill-Donnelly Information Services
2000	KELLY KERNWI	Cole Information
	J E MILLER	Cole Information
	MARY MILLER	Cole Information
	VINCENT POWERS	Cole Information
	JOANNE MILLER	Cole Information
	KELLY KERWIN	Cole Information
1993	MILLER Mary	New York Telephone
1992	MILLER, MARY	Cole Information
1940	Elsasser G	New York Telephone
1931	Elasser Gustave fireman	Manhattan and Bronx Directory Publishing Company Residential Directory

517 BRUSH AVE

Year	Uses	Source
2005	JOANNE MILLER	Cole Information

528 BRUSH AVE

Year	Uses	Source
1940	Ritch Sidney C	New York Telephone
1927	Ritch Sidney C r	New York Telephone

529 BRUSH AVE

Year	Uses	Source
2020	JOHN WEINHEIMER	EDR Digital Archive
	ANTHONY MEDICI	EDR Digital Archive
	PETER BONIFIGLIO	EDR Digital Archive
2005	Barker J A	Hill-Donnelly Information Services

FINDINGS

Year	Uses	Source
2005	Martin J AA	Hill-Donnelly Information Services
2000	J BARKER	Cole Information
	J MARTIN	Cole Information
1993	BARKER John	New York Telephone
	MARTIN J	New York Telephone
1992	BARKER, JOHN	Cole Information
	MARTIN, J	Cole Information

530 BRUSH AVE

Year	Uses	Source
1940	Miller Chas H	New York Telephone

531 BRUSH AVE

Year	Uses	Source
2000	OCCUPANT UNKNOWN	Cole Information
1927	Van Bakel P r	New York Telephone

545 BRUSH AVE

Year	Uses	Source
2020	UPS CUSTOMER CTR	EDR Digital Archive
2005	UNITED PARCEL SERVICE	Cole Information

550 BRUSH AVE

Year	Uses	Source
2020	D & J INDUSTRIES	EDR Digital Archive
	MCG CONSTRUCTION	EDR Digital Archive
	WHITESTONE ELECTRIC	EDR Digital Archive
	BUTLER FLEET	EDR Digital Archive
	LIBERTY MECHANICAL CONTRACTORS	EDR Digital Archive
2017	BUTLER FLEET	Cole Information
	MANAGEMENT IMPORT EXPORT LLC	Cole Information
	LIBERTY MECHANICAL CONTRACTORS	Cole Information
	D&J INDUSTRIES	Cole Information
2014	MANAGEMENT IMPORT EXPORT LLC	Cole Information
	LIBERTY MECHANICAL CONTRACTORS	Cole Information

FINDINGS

Year	Uses	Source
2014	BUTLER FLEET	Cole Information
	D&J INDUSTRIES	Cole Information
2010	BUTLER FLEET SVC	Cole Information
	LIBERTY MECHANICAL CONTRACTORS	Cole Information
	MICHAEL CONTILLO	Cole Information
2005	Liberty Mechanical Contractors	Hill-Donnelly Information Services
	LIBERTY MECHANICAL CONTRACTORS	Cole Information
	TOWER PROPERTY MANAGEMENT CO	Cole Information
	DECON STORAGE LLC	Cole Information
	OCCUPANT UNKNOWN	Cole Information
2000	LIBERTY MECHI	Cole Information
	R & R MACHI INC	Cole Information
	KEVIN TAYLOR	Cole Information
1995	SPIELBERG L & SONS INC	Cole Information
1992	SPIELBERG L & SONS INC	Cole Information

552 BRUSH AVE

Year	Uses	Source
1931	Hawlett Geo	Manhattan and Bronx Directory Publishing Company Residential Directory

630 BRUSH AVE

Year	Uses	Source
1927	Miller C H r	New York Telephone

650 BRUSH AVE

Year	Uses	Source
2020	WJD BEVERAGE INC	EDR Digital Archive
	BROOK BEVERAGE	EDR Digital Archive
	J WILD BEVERAGE CORP	EDR Digital Archive
	PEPSI BOTTLING GROUP	EDR Digital Archive
2017	BUHRE BEVERAGE DISTRIBUTING	Cole Information
	J WILD BEVERAGE CORP	Cole Information
	PEPSI COLA BOTTLING CO OF NY	Cole Information
	PEPSICO	Cole Information

FINDINGS

Year	Uses	Source
2017	BROOK BEVERAGE	Cole Information
2014	BUHRE BEVERAGE DISTRIBUTING	Cole Information
	J WILD BEVERAGE CORPORATION	Cole Information
	WEST SIDE BEVERAGE INCORPORATED	Cole Information
	PEPSICO	Cole Information
	BROOK BEVERAGE	Cole Information
	WJD BEVERAGE INCORPORATED	Cole Information
2010	PEPSI BOTTLING GROUP	Cole Information
	BUHRE BEVERAGE DISTRIBUTING	Cole Information
	BROOK BEVERAGE	Cole Information
	WJD BEVERAGE INC	Cole Information
	J WILD BEVERAGE CORP	Cole Information
	PEPSICOLA CO	Cole Information

680 BRUSH AVE

Year	Uses	Source
2020	RAFAEL CARABALLO	EDR Digital Archive
	BROOKE CARABALLO	EDR Digital Archive
2017	RAFAEL CARABALLO	Cole Information
2014	ISAAC OCASIO	Cole Information
2010	JOSE OCASIO	Cole Information
2005	H Ocasio Jose AA	Hill-Donnelly Information Services
	JOSE OCASIO	Cole Information
2000	JOSE VELEZ	Cole Information
	JOSE VELEZ	Cole Information
1992	VELEZ, JOSE	Cole Information
1931	Cleary Wm	Manhattan and Bronx Directory Publishing Company Residential Directory

682 BRUSH AVE

Year	Uses	Source
2017	DENIS PINO	Cole Information
2014	DENIS PINO	Cole Information
2010	DENNIS PINO	Cole Information

FINDINGS

Year	Uses	Source
2005	H Carrero S A Aa	Hill-Donnelly Information Services
	SALVADOR CARRERO	Cole Information
1992	RIVERA, JOSE	Cole Information

699 BRUSH AVE

Year	Uses	Source
2005	H 0 Penn Machinery Co	Hill-Donnelly Information Services
2000	CTRPLLR LFT TRCKS	Cole Information Services
	H O PENN MACHY CO	Cole Information Services
	H O PENN MACHY CO	Cole Information Services
	PENCO IND DIV H	Cole Information Services
1993	CATERPILLAR LIFT TRUCKS	New York Telephone
	H O PENN MACHINERY	New York Telephone
	H O PENN MACHINERY CO INC	New York Telephone
	PENCO INDUSTRIAL DIV OF H O PENN MACHINERY CO INC	New York Telephone
1983	HO PENN MACHINERY CO INC	New York Telephone
	PENN H O MACHINERY CO INC	New York Telephone

BRUSH AVE FRNT 1

550 BRUSH AVE FRNT 1

Year	Uses	Source
2020	MICHAEL CONTILLO	EDR Digital Archive
	AMANDA CONTILLO	EDR Digital Archive

BRUSH AVE FRNT 2

550 BRUSH AVE FRNT 2

Year	Uses	Source
2020	JOSEPH DEGLOMINI	EDR Digital Archive

EMERSON AVE

196 EMERSON AVE

Year	Uses	Source
1983	HICKSON GLENN	New York Telephone

FINDINGS

198 EMERSON AVE

Year	Uses	Source
1993	DELVALLE RICHARD	New York Telephone
1983	CALANO WALTER	New York Telephone
1976	CALANO WALTER	New York Telephone Company

200 EMERSON AVE

Year	Uses	Source
1993	GALLO PASQUALE	New York Telephone
1983	GALLO PASQUALE	New York Telephone
	NEFF MARTIN	New York Telephone
1976	ANASTASIO NEIL	New York Telephone Company
	GALLO PASQUALE	New York Telephone Company
1971	ANASTASIO NELI	New York Telephone
	GALLO PASQUALE	New York Telephone

204 EMERSON AVE

Year	Uses	Source
1983	ALOISIO VITO	New York Telephone
	CODISPOTI SUSAN	New York Telephone

232 EMERSON AVE

Year	Uses	Source
1993	PERSAUD STEVE	New York Telephone

236 EMERSON AVE

Year	Uses	Source
1976	CRISCUOLO LORRAINE	New York Telephone Company

238 EMERSON AVE

Year	Uses	Source
1993	CAMPANELLI JOSEPH J	New York Telephone
	LEVANTIS V	New York Telephone
1983	HEFFERAN GERARD V	New York Telephone
1976	HEFFERAN GERARD V	New York Telephone Company
	MOLINARI MARY P	New York Telephone Company

FINDINGS

244 EMERSON AVE

Year	Uses	Source
1993	TAKIS THOS	New York Telephone
	TRACZ JOHN	New York Telephone
1983	FRAHER D A	New York Telephone
	RUIZ FRANK	New York Telephone
	TAKIS THOS	New York Telephone
1976	HORGAN KENNETH F	New York Telephone Company
	TAKIS THOS	New York Telephone Company

250 EMERSON AVE

Year	Uses	Source
1993	GUIDO A	New York Telephone

258 EMERSON AVE

Year	Uses	Source
1993	RASMUSSEN L M	New York Telephone
1983	RASMUSSEN L M	New York Telephone
1976	RASMUSSEN WM A	New York Telephone Company

264 EMERSON AVE

Year	Uses	Source
1993	DEVINE D	New York Telephone
1983	PFUND ERWIN SR	New York Telephone
1976	PFUND ERWIN SR	New York Telephone Company
1971	PFUND ERWIN P JR	New York Telephone

266 EMERSON AVE

Year	Uses	Source
1976	BAPTIST PAT	New York Telephone Company

272 EMERSON AVE

Year	Uses	Source
1993	SAVINO DONALD	New York Telephone
1976	HAYES M	New York Telephone Company
1971	HAYES M	New York Telephone

FINDINGS

274 EMERSON AVE

Year	Uses	Source
1993	FERRARI S	New York Telephone
1983	FERRARI S	New York Telephone
1976	FERRARI S	New York Telephone Company

276 EMERSON AVE

Year	Uses	Source
1993	A-STEVENS SEWER & DRAIN CLNG	New York Telephone

278 EMERSON AVE

Year	Uses	Source
1983	MALTESE JOHN F	New York Telephone
1976	MALTESE JOHN F	New York Telephone Company

EMERSON AVE

196 EMERSON AVE

Year	Uses	Source
2020	ESWILDA HERNANDEZ	EDR Digital Archive
2017	ESWILDA HERNANDEZ	Cole Information
2014	DANIEL PIROZZI	Cole Information
2010	DANIEL PIROZZI	Cole Information
2005	NCL	Hill-Donnelly Information Services
	JOANNE OHARE	Cole Information
2000	J DOHERTY	Cole Information
	J DOHERTY	Cole Information
1993	PIROZZI FRANK	New York Telephone
1992	PIROZZI, FRANK	Cole Information
1983	PIROZZI FRANK	New York Telephone
1976	PIROZZI FRANK	New York Telephone Company
1971	HARTMANN RAYMOND D	New York Telephone
	PIROZZI FRANK	New York Telephone
1965	HARTMANN RAYMOND D	New York Telephone Company
	PIROZZI FRANK	New York Telephone Company
1961	HASTMANN RAYMOND D	New York Telephone

FINDINGS

Year	Uses	Source
1961	PIROZZI FRANK	New York Telephone
1931	Carney Theo	Manhattan and Bronx Directory Publishing Company Residential Directory

198 EMERSON AVE

Year	Uses	Source
2020	MICHAEL DIAZ	EDR Digital Archive
	VALLE DEL VALLE	EDR Digital Archive
	IVIS BONES	EDR Digital Archive
	BERNARDO DEL VALLE	EDR Digital Archive
	YVETTE FOY	EDR Digital Archive
	IVIS DIAZ	EDR Digital Archive
	RUDOLPH GADSON	EDR Digital Archive
2017	DALE WILLIAMS	Cole Information
2014	RUDOLPH GADSON	Cole Information
2010	MELVIN LANGLEY	Cole Information
2005	Langley M	Hill-Donnelly Information Services
	Williams Dale	Hill-Donnelly Information Services
	MELVIN LANGLEY	Cole Information
2000	OCCUPANT UNKNOWN	Cole Information
1993	DELVALLE Richard	New York Telephone
1992	DELVALLE, RICHARD	Cole Information
1971	ATTIS STEPHEN E JR	New York Telephone
	MORRIS TERENCE	New York Telephone
1965	TRUNCALI F J	New York Telephone Company
1961	MARTZ JOS M	New York Telephone
	TRUNCALI F J	New York Telephone
1931	Keller Walter	Manhattan and Bronx Directory Publishing Company Residential Directory
	Schineller Edw	Manhattan and Bronx Directory Publishing Company Residential Directory

200 EMERSON AVE

Year	Uses	Source
2020	LUCECITA GUEVARA	EDR Digital Archive

FINDINGS

Year	Uses	Source
2020	FRANCISCO GUEVARA	EDR Digital Archive
2017	ROSALYNN MEJIA	Cole Information
2010	MARILYN MANSOUR	Cole Information
	FRANCISCO GUEVARA	Cole Information
	MARILYN COSTA	Cole Information
2005	FRANCISCO GUEVARA	Cole Information
	H Gallo S F Aa	Hill-Donnelly Information Services
2000	APARTMENTS	Cole Information
	MARIO CARO	Cole Information
	MAUREEN HUSTON	Cole Information
	PASQUAL GALLO	Cole Information
	ELLEN CHADWICK	Cole Information
1993	GALLO Pasquale	New York Telephone
1992	GALLO, PASQUALE	Cole Information

201 EMERSON AVE

Year	Uses	Source
2000	MARIO CARO	Cole Information
	PASQUALE GALLO	Cole Information

202 EMERSON AVE

Year	Uses	Source
2020	JULIO RODRIGUEZ	EDR Digital Archive
	JENNIE FLORES	EDR Digital Archive
	MICHELLE FLORES	EDR Digital Archive
2017	MICHELLE FLORES	Cole Information
2014	JENNIE FLORES	Cole Information
2010	JULIO RODRIGUEZ	Cole Information
2005	EDUARDO LOPEZ	Cole Information
	H Lopez Eduardo A	Hill-Donnelly Information Services
2000	EDUARDO LOPEZ	Cole Information
	EDUARDO LOPEZ	Cole Information

FINDINGS

204 EMERSON AVE

Year	Uses	Source
2020	ASHEEK ALLI	EDR Digital Archive
	ANTHONY NAPOLEONIS	EDR Digital Archive
	BIBI ALLI	EDR Digital Archive
	SHABANA ALLI-ARJUNE	EDR Digital Archive
	MARIA NAPOLEONIS	EDR Digital Archive
	RAMDEW ARJUNE	EDR Digital Archive
	LUZ NAPOLEONIS	EDR Digital Archive
2017	ASHEEK ALLI	Cole Information
	JAY JUNE	Cole Information
	SHABANA ARJUNE	Cole Information
	MIRIAM RODRIGUEZ	Cole Information
2014	ASHEEK ALLI	Cole Information
	JAY KHAN	Cole Information
	DAMARIS PEREZ	Cole Information
	JAY JUNE	Cole Information
	SHABANA ARJUNE	Cole Information
	MIRIAM RODRIGUEZ	Cole Information
2010	ASHEEK ALLI	Cole Information
	SHABANA ARJUNE	Cole Information
	RAVI RAMPERSAD	Cole Information
2005	VICTOR RODRIGUEZ	Cole Information
	H Rodriguez Victor A	Hill-Donnelly Information Services
2000	VICTOR RODRIGUEZ	Cole Information
	VICTOR RODRIGUEZ	Cole Information
1976	CODISPOTI GUIDO	New York Telephone Company
1971	CODISPOTI GUIDO	New York Telephone

230 EMERSON AVE

Year	Uses	Source
2020	SHAYAN TAMAYO	EDR Digital Archive
	LINDA FRANCESCHINI	EDR Digital Archive
	NIKIELLA ESCAIERA	EDR Digital Archive

FINDINGS

Year	Uses	Source
2020	DAMARIS GARCIA	EDR Digital Archive
2017	SHAYAN TAMAYO	Cole Information
2014	SHAYAN TAMAYO	Cole Information
	DAMARIS GARCIA	Cole Information
2010	DAMARIS GARCIA	Cole Information
2005	M SANCHEZ	Cole Information
	GARCIA DEMARIS	Cole Information
	DAMARIS GARCIA	Cole Information
	232 NCL	Hill-Donnelly Information Services
2000	OCCUPANT UNKNOWN	Cole Information

232 EMERSON AVE

Year	Uses	Source
2020	FREDDY ROSARIO	EDR Digital Archive
	ANDREW DIGIUGNO	EDR Digital Archive
	ANGELICA CASTANOS	EDR Digital Archive
2017	BERNETTA WALKER	Cole Information
	ANDREW DIGIUGNO	Cole Information
	ANGELICA CASTANOS	Cole Information
	JESSICA JOHNSON	Cole Information
	JAMES POLITE	Cole Information
2014	BERNETTA WALKER	Cole Information
	DIGIUGNO ANDREW	Cole Information
	ANDREW DIGIUGNO	Cole Information
	ANGELICA CASTANOS	Cole Information
	JAMES POLITE	Cole Information
	JESSICA JOHNSON	Cole Information
2010	ANDREW DIGIUGNO	Cole Information
	GIEZI DELEON	Cole Information
2005	ANDREW DIGIUGNO	Cole Information
	GIEZI DELEON	Cole Information
	AYANNA TREASURE	Cole Information
2000	OCCUPANT UNKNOWN	Cole Information

FINDINGS

Year	Uses	Source
1993	PERSAUD Steve	New York Telephone
1992	PERSAUD, STEVE	Cole Information

236 EMERSON AVE

Year	Uses	Source
2020	HUMERA ALI	EDR Digital Archive
	BIANCA ELIO	EDR Digital Archive
	TABINDA RIASAT	EDR Digital Archive
	RAJA RIASAT	EDR Digital Archive
2017	HUMERA ALI	Cole Information
	VINCENT ELIO	Cole Information
	RAJA RIASAT	Cole Information
	SOBIA PARVEEN	Cole Information
2014	HUMERA ALI	Cole Information
	VINCENT ELIO	Cole Information
	CHRISTOPHER WHITE	Cole Information
	ANN FISS	Cole Information
2010	ANN FISS	Cole Information
	CHRISTOPHER WHITE	Cole Information
	ANNETTE DELARA	Cole Information
	VINCENT CRISCUOLO	Cole Information
2005	Buxton William R V	Hill-Donnelly Information Services
	Crisuolo L AA	Hill-Donnelly Information Services
2000	L CRISUOLO 98 863-8115	Cole Information
	L CRISUOLO	Cole Information

238 EMERSON AVE

Year	Uses	Source
2020	SABRINA CALDERON	EDR Digital Archive
	DANNY MENDEZ	EDR Digital Archive
	JAY DANNY	EDR Digital Archive
	ELIZABETH GORDILLS	EDR Digital Archive
2017	LOUIS CARDELLO	Cole Information
	SABRINA CALDERON	Cole Information

FINDINGS

Year	Uses	Source
2014	SABRINA CALDERON	Cole Information
	JAY DANNY	Cole Information
2010	DANNY MENDEZ	Cole Information
2005	DANNY MENDEZ	Cole Information
	ELIZABETH GORDILLS	Cole Information
	Gordills E v	Hill-Donnelly Information Services
2000	VICTOR BETANCOURT	Cole Information
	VICTOR BETANCOURT	Cole Information
1993	CAMPANELLI Joseph J	New York Telephone
	LEVANTIS V	New York Telephone
1992	CAMPANELLI, JOSEPH J	Cole Information

239 EMERSON AVE

Year	Uses	Source
2000	OCCUPANT UNKNOWN	Cole Information

244 EMERSON AVE

Year	Uses	Source
2020	SYLVIA TAKIS	EDR Digital Archive
	THOMAS TAKIS	EDR Digital Archive
	THEODORE TAKIS	EDR Digital Archive
2017	THOMAS TAKIS	Cole Information
2014	THOMAS TAKIS	Cole Information
2010	THOMAS TAKIS	Cole Information
2005	ASSET LINK LLC	Cole Information
	THOMAS TAKIS	Cole Information
	H Takides Ted A	Hill-Donnelly Information Services
	Takis Thomas AV	Hill-Donnelly Information Services
2000	TED TAKIDES	Cole Information
	THOMAS TAKIS	Cole Information
	TED TAKIDES	Cole Information
	THOMAS TAKIS	Cole Information
1993	TAKIS Thos	New York Telephone
	TAKO Michael % 364 9564	New York Telephone

FINDINGS

Year	Uses	Source
1993	TRACZ John	New York Telephone
1992	TAKIS, THOS	Cole Information
	TRACZ, JOHN	Cole Information
1971	LAFFERTY RONALD	New York Telephone
1965	LAFFERTY LOUIS J	New York Telephone Company
1961	LAFFERTY LOUIS J	New York Telephone

245 EMERSON AVE

Year	Uses	Source
1931	Farrell Patk	Manhattan and Bronx Directory Publishing Company Residential Directory

250 EMERSON AVE

Year	Uses	Source
2020	JOSEPH RAMOS	EDR Digital Archive
	ANTONIO RAMOS	EDR Digital Archive
2017	ANGEL WILSON	Cole Information
2014	DENISE GOMEZ-RAMOS	Cole Information
	RAMOS ANTONIO	Cole Information
	ANA VAZQUEZ	Cole Information
	ANDRE ROBINSON	Cole Information
	MARCUS ROSARIO	Cole Information
2010	ANTONIO RAMOS	Cole Information
	ANA VAZQUEZ	Cole Information
2005	ANTONIO RAMOS	Cole Information
	H Ramos A G AA	Hill-Donnelly Information Services
2000	W G HONEGGER JR	Cole Information
	W HONEGGER	Cole Information
1993	GUIDO A	New York Telephone
1992	GUIDO, A	Cole Information

252 EMERSON AVE

Year	Uses	Source
2020	ANDREW MORALES	EDR Digital Archive
	GUY MULLER	EDR Digital Archive

FINDINGS

Year	Uses	Source
2020	ANTHONY GENADIO	EDR Digital Archive
	CAROL TRIASSI	EDR Digital Archive
	MINOO TAVAZOI	EDR Digital Archive
2017	VIRGINIA PEARCE	Cole Information
2014	PEARCE VIRGINIA	Cole Information
	VIRGINIA PEARCE	Cole Information
	ANTHONY GENADIO	Cole Information
	DOMENICA GUIDO	Cole Information
2010	DOMEN PEARCE	Cole Information
	ANTHONY GENADIO	Cole Information
	DOMENICA GUIDO	Cole Information
2005	DOMEN PEARCE	Cole Information
	h Pearce V AV	Hill-Donnelly Information Services
2000	CECILIA GONZALEZ	Cole Information
	CECILIA GONZALEZ	Cole Information

258 EMERSON AVE

Year	Uses	Source
2020	MARIEL QUILES	EDR Digital Archive
	QUILES ELADIO	EDR Digital Archive
	BRANDON QUILES	EDR Digital Archive
	CHRISTOPHER QUILES	EDR Digital Archive
2017	ELADIO QUILES	Cole Information
2014	ELADIO QUILES	Cole Information
2010	OCCUPANT UNKNOWN	Cole Information
2005	HIRAM COLON	Cole Information
	H Colon H A	Hill-Donnelly Information Services
2000	HIRAM COLON	Cole Information
1993	RASMUSSEN L M	New York Telephone
1992	RASMUSSEN, L M	Cole Information
1971	PFUND WM	New York Telephone
1965	PFUND WM	New York Telephone Company
1961	PFUND WM	New York Telephone

FINDINGS

264 EMERSON AVE

Year	Uses	Source
2020	LYNN DEVINE	EDR Digital Archive
	DENNIS DEVINE	EDR Digital Archive
2014	DEVINE DENNIS	Cole Information
2010	DENNIS DEVINE	Cole Information
2005	KAREN BASMUSSEN	Cole Information
	DENNIS DEVINE	Cole Information
	KAREN RASMUSSEN	Cole Information
	Devine D A	Hill-Donnelly Information Services
2000	D DEVINE	Cole Information
	DEVINE DENNIS	Cole Information
	DENNIS DEVINE	Cole Information
1993	DEVINE D	New York Telephone
1992	DEVINE, D	Cole Information
1965	PFUND ERWIN	New York Telephone Company
1961	PFUND ERWIN	New York Telephone

266 EMERSON AVE

Year	Uses	Source
2020	JULES HAMILTON	EDR Digital Archive
	LOREEN WALKER	EDR Digital Archive
	MARIE HAMILTON	EDR Digital Archive
	KYLE HAMILTON	EDR Digital Archive
2017	MARIE BROWN-HAMILTON	Cole Information
	LOREEN WALKER	Cole Information
2014	JULES HAMILTON	Cole Information
	ICILDA HISLOP	Cole Information
	LOREEN WALKER	Cole Information
2010	VICTOR GONZALEZ	Cole Information
	JULES HAMILTON	Cole Information
	I HISLOP	Cole Information
	LOREEN WALKER	Cole Information
	MARIE BROWN	Cole Information

FINDINGS

Year	Uses	Source
2005	LOREEN WALKER	Cole Information
	Walker Loreen	Hill-Donnelly Information Services
2000	LAURIE STEWART	Cole Information
	LAURIE STEWART	Cole Information
1971	DUFFY M E	New York Telephone
1965	FALCIANO THOS L	New York Telephone Company
	GAMBOL ROY	New York Telephone Company
1961	FALCIANO VICTORIA MRS	New York Telephone
1931	Camerino Wm	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Camerino E L r	New York Telephone

268 EMERSON AVE

Year	Uses	Source
2020	MARCO LOPEZ	EDR Digital Archive
	JOSEPH HERNANDEZ	EDR Digital Archive
	MARTHA LOPEZ	EDR Digital Archive
	CHRISTOPHER LOPEZ	EDR Digital Archive
	KARLA LAGUNA	EDR Digital Archive
	LIZZETTE RAMOS	EDR Digital Archive
2017	MARCO LOPEZ	Cole Information
2014	MARCO LOPEZ	Cole Information
	VICTOR CRAIG	Cole Information
	KARLA LAGUNA	Cole Information
2010	GABRIEL DELGADO	Cole Information
	MARCO LOPEZ	Cole Information
	KARLA LAGUNA	Cole Information
2005	RAFAEL CASIANO	Cole Information
	MADELINE RIOPEDRE	Cole Information
	NCL	Hill-Donnelly Information Services
2000	H MERCADO JR	Cole Information
	H MERCADO	Cole Information
	L RAMOS	Cole Information

FINDINGS

270 EMERSON AVE

Year	Uses	Source
2020	RAYMOND CLEMENTZ	EDR Digital Archive
	FRANK MATOS	EDR Digital Archive
2017	RAYMOND CLEMENTZ	Cole Information
2014	RAYMOND CLEMENTZ	Cole Information
2010	CARLOS GONZALEZ	Cole Information
	FRANK MATOS	Cole Information
2005	OLGA SHAVEZ	Cole Information
	LAWRENCE MATOS	Cole Information
	h Gonzalez Carlos v	Hill-Donnelly Information Services
2000	OLGA SHAVEZ	Cole Information
	PETER TORRES	Cole Information
	PETER TORRES	Cole Information
	OLGA SHAVEZ	Cole Information

272 EMERSON AVE

Year	Uses	Source
2020	DONALD SAVINO	EDR Digital Archive
	GRETA CARLUCCI	EDR Digital Archive
2017	DONALD SAVINO	Cole Information
2014	DONALD SAVINO	Cole Information
2010	DONALD SAVINO	Cole Information
2005	JOHN FRANZ	Cole Information
	h Savino Donald AO	Hill-Donnelly Information Services
2000	GRETA CARLUCCI	Cole Information
	GRETA CARLUCCI	Cole Information
1993	SAVINO Donald	New York Telephone
1992	SAVINO, DONALD	Cole Information
1965	HAYES JOS M	New York Telephone Company
1961	COMERFORD THOS J JR	New York Telephone

274 EMERSON AVE

Year	Uses	Source
2020	ENILZA BATISTA	EDR Digital Archive

FINDINGS

Year	Uses	Source
2020	RICARDO COLON	EDR Digital Archive
	MARTHA LOPEZ	EDR Digital Archive
	MARCO LOPEZ	EDR Digital Archive
	CHRISTINA LAPIERRE	EDR Digital Archive
2017	RICARDO COLON	Cole Information
2014	MARCO LOPEZ	Cole Information
2010	MARCO LOPEZ	Cole Information
2005	MARCO LOPEZ	Cole Information
	Lopez M L	Hill-Donnelly Information Services
1993	FERRARI S	New York Telephone
1992	FERRARI, S	Cole Information
1971	FERRARI STELLA MRS	New York Telephone
1965	FERRARI STELLA MRS	New York Telephone Company
1961	BRAZAITIS PETER J	New York Telephone
	FERRARI STELLA MRS	New York Telephone

276 EMERSON AVE

Year	Uses	Source
2020	CHRISTINA ANNUNZIATA	EDR Digital Archive
	FRANCINE PESCE	EDR Digital Archive
	DAMARIS RAMIREZ	EDR Digital Archive
	FRANCINE ANNUNZIATA	EDR Digital Archive
	DOMINIC ANNUNZIATA	EDR Digital Archive
2017	DOMINIC ANNUNZIATA	Cole Information
2014	FRAN ANNUNZIATA	Cole Information
2010	FRAN ANNUNZIATA	Cole Information
2005	Annunziata Fran A	Hill-Donnelly Information Services
	Pesce Gerard 3 AA	Hill-Donnelly Information Services
	FRAN ANNUNZIATA	Cole Information
2000	EVELYN PESCE	Cole Information
	FRAN ANNUNZIATA	Cole Information
1995	A-STEVENS SEWER & DRAIN CLNG	Cole Information
1993	PESCE GERARD J	New York Telephone

FINDINGS

Year	Uses	Source
1992	A-STEVENS SEWER & DRAIN CLNG	Cole Information
	PESCE, GERARD J	Cole Information
1983	PESCE GERARD J	New York Telephone
1976	PESCE GERARD J	New York Telephone Company
1971	PESCE GERARD J	New York Telephone
1965	PESCE GERARD J	New York Telephone Company
1961	PESCE GERARD J	New York Telephone

278 EMERSON AVE

Year	Uses	Source
2020	HAWA LAMIN	EDR Digital Archive
	MARIE HILL	EDR Digital Archive
	MARK HILL	EDR Digital Archive
	MAGLENSIE MOTLEY	EDR Digital Archive
	MIYA HILL	EDR Digital Archive
2017	MIYA HILL	Cole Information
2014	MIYA HILL	Cole Information
2010	MARIE SAINTHILL	Cole Information
2005	St Hill Marie AA	Hill-Donnelly Information Services
	1562 WHITE PLAINES RD INC	Cole Information
	JAMES HILL	Cole Information
2000	JAMES HILL	Cole Information
	JAMES HILL	Cole Information
1992	MALTESE, IDA	Cole Information
1965	HICKSON JONN	New York Telephone Company
1961	HICKSON JOHN	New York Telephone

HARDING AVE

2576 HARDING AVE

Year	Uses	Source
2020	MARY SAVAGE	EDR Digital Archive
	DAVID SAVAGE	EDR Digital Archive
	MARGARET DALY	EDR Digital Archive

FINDINGS

Year	Uses	Source
2017	DAVID SAVAGE	Cole Information
2014	DAVID SAVAGE	Cole Information
2010	DAVID SAVAGE	Cole Information
2000	MARCIA MEYER	Cole Information
	DAVID SAVAGE	Cole Information
1992	MEYER, RICHD C	Cole Information
	LEGATO, JOSEPH	Cole Information

2577 HARDING AVE

Year	Uses	Source
2020	BARBARA NOVELLINO	EDR Digital Archive
	PATRICIA JONAP	EDR Digital Archive
2017	BARBARA NOVELLINO	Cole Information
2014	RICHARD ANDERSON	Cole Information
2010	RICHARD ANDERSON	Cole Information
2005	RICHARD ANDERSON	Cole Information
2000	RICHARD ANDERSON	Cole Information
1992	ANDERSON, GUSTAVE M	Cole Information

2578 HARDING AVE

Year	Uses	Source
2020	FEONIA JAMES-JONES	EDR Digital Archive
	JAMES-JONES FEONIA	EDR Digital Archive
2017	MARLON JONES	Cole Information
2014	MARLON JONES	Cole Information
2005	WILLIAM ORTIZ	Cole Information
2000	WILLIAM ORTIZ	Cole Information

2579 HARDING AVE

Year	Uses	Source
2020	ELSA SEGUNDO	EDR Digital Archive
	CARLOS AQUINO	EDR Digital Archive
	CHRISTOPHER BARBOSA	EDR Digital Archive
	ANGELA AQUINO	EDR Digital Archive

FINDINGS

Year	Uses	Source
2017	CHRIS BARBOSA	Cole Information
2014	ELSA SEGUNDO	Cole Information
	EDITH LOPEZ	Cole Information
2010	ELSA SEGUNDO	Cole Information
	EDITH LOPEZ	Cole Information
2005	ANTHONY DELGADO	Cole Information
	ANTHONY DIAZ	Cole Information
2000	MARY LILLIS	Cole Information

2580 HARDING AVE

Year	Uses	Source
2020	VICTORIA ALVARADO	EDR Digital Archive
	LINDA ALVARADO	EDR Digital Archive
	JAMES ALVARADO	EDR Digital Archive
2017	JAMES ALVARADO	Cole Information
2014	JAMES ALVARADO	Cole Information
2010	JAMES ALVARADO	Cole Information
2005	JAMES ALVARADO	Cole Information
2000	CAROL HILL	Cole Information

2581 HARDING AVE

Year	Uses	Source
2020	BRUNILDA FALCON	EDR Digital Archive
2017	BRUNILDA FALCON	Cole Information
2014	ANTHONY MONITTO	Cole Information
2010	ANTHONY MONITTO	Cole Information
2005	ANTHONY MONITTO	Cole Information
2000	MARIA MONITTO	Cole Information

2582 HARDING AVE

Year	Uses	Source
2020	ERIC COLEMAN	EDR Digital Archive
2017	COLEMAN ERIC	Cole Information
2014	OCCUPANT UNKNOWN	Cole Information

FINDINGS

Year	Uses	Source
2010	OCCUPANT UNKNOWN	Cole Information
2005	OCCUPANT UNKNOWN	Cole Information
2000	THOMAS DOERR	Cole Information
1992	DOERR, THOMAS G	Cole Information

2583 HARDING AVE

Year	Uses	Source
2020	EDMUND MCCORMACK	EDR Digital Archive
	FRANCIS DOYLE	EDR Digital Archive
	NATALIE ROMAN	EDR Digital Archive
2017	DOMINGO TORRES	Cole Information
2014	DOYLE FRANCIS	Cole Information
2010	FRANCIS DOYLE	Cole Information
2005	FRANCIS DOYLE	Cole Information
2000	FRANCIS DOYLE	Cole Information
1992	LOMBARDO, PAUL	Cole Information

2584 HARDING AVE

Year	Uses	Source
2020	CRYSTAL LOPEZ	EDR Digital Archive
	CHRISTOPHER GONZALEZ	EDR Digital Archive
	OMAR CRUZ	EDR Digital Archive
2017	MARIVEL SALCEDO	Cole Information
2014	SUZANNE GONZALEZ	Cole Information
2010	SUZANNE GONZALEZ	Cole Information
2005	BELEN GONZALEZ	Cole Information
2000	MARIO COLON	Cole Information

2585 HARDING AVE

Year	Uses	Source
2020	CLARA ROSADO	EDR Digital Archive
	DIANA CLEMENTI	EDR Digital Archive
	FAUSTO HENRIQUEZ	EDR Digital Archive
2014	DIANA CLEMENTI	Cole Information

FINDINGS

Year	Uses	Source
2014	DIANA GRIFFORD	Cole Information
2010	PATRICK BIASE	Cole Information
	DIANA CLEMENTI	Cole Information
	DIANA GRIFFORD	Cole Information
2005	DAVID PETILLO	Cole Information
	DIANA GIFFORD	Cole Information
	DIANA CLEMENTI	Cole Information
	DIANA GRIFFORD	Cole Information
1992	GIFFORD, MICHAEL	Cole Information

2586 HARDING AVE

Year	Uses	Source
2020	STEVEN MUHAMMAD	EDR Digital Archive
	GISELLA QUIJIJE	EDR Digital Archive
	RITA MUHAMMAD	EDR Digital Archive
2017	STEVEN MUHAMMAD	Cole Information
	GISELLA QUIJIJE	Cole Information
	MARIA SERRANO	Cole Information

2587 HARDING AVE

Year	Uses	Source
2020	LUCIANO PEDRO	EDR Digital Archive
	JOSEFINA MOLINA	EDR Digital Archive
	SILVERIO APREA	EDR Digital Archive
2017	AGUSTINO APREA	Cole Information
	JOSEFINA MOLINA	Cole Information
2014	SILVERIO APREA	Cole Information
2010	OCCUPANT UNKNOWN	Cole Information
	SILVERIO APREA	Cole Information
2005	OCCUPANT UNKNOWN	Cole Information
	MICHAEL KOSINENKO	Cole Information
2000	A APREA	Cole Information
1992	KOSINENKO, F	Cole Information
	APREA, AGUSTINO	Cole Information

FINDINGS

Year	Uses	Source
1992	APREA, SILVERIO	Cole Information

2589 HARDING AVE

Year	Uses	Source
2020	RAYMOND MIURA	EDR Digital Archive
	MAUREEN GRECO	EDR Digital Archive
	ANTHONY GRECO	EDR Digital Archive
	WILLIAM GRECO	EDR Digital Archive
2017	RAY MIURA	Cole Information
	WILLIAM GRECO	Cole Information
2014	WILLIAM GRECO	Cole Information
2010	PATRICIA GRECO	Cole Information
	MAUREEN GREGO	Cole Information
	SCOTT BABIAK	Cole Information
2005	PATRICIA GRECO	Cole Information
	RICHARD SCHMIDT	Cole Information
	SCOTT BABIAK	Cole Information

HOSMAR AVE

277 HOSMAR AVE

Year	Uses	Source
1983	DE ROSE JOHN	New York Telephone

HOSMER AVE

237 HOSMER AVE

Year	Uses	Source
1993	PICCININNI MARIE	New York Telephone
1983	PICCININNI MARIE	New York Telephone
1976	FERRARI V	New York Telephone Company
	PICCININNI MARIE	New York Telephone Company
1971	JUSITS JOS	New York Telephone
1965	JUSITS JOS	New York Telephone Company

FINDINGS

245 HOSMER AVE

Year	Uses	Source
1971	GERRETS HENRY C	New York Telephone
1965	GERRETS HENRY C	New York Telephone Company

246 HOSMER AVE

Year	Uses	Source
1993	MEURER MARTIN	New York Telephone
1983	CARRIQUE CONSTANTINO	New York Telephone
	MEURER MARTIN	New York Telephone
1976	MEURER MARTIN	New York Telephone Company
1971	MEURER MARTIN	New York Telephone
1965	MEURER MARTIN	New York Telephone Company
	ROJAS E L	New York Telephone Company

277 HOSMER AVE

Year	Uses	Source
1993	DEROSE JOHN	New York Telephone
1976	BAUER ANITA M	New York Telephone Company
1971	BAUER ANITA M	New York Telephone
1965	BAUER ANITA M	New York Telephone Company

278 HOSMER AVE

Year	Uses	Source
1976	DE ROSE JOHN	New York Telephone Company
1971	GRIFFIN GERALD	New York Telephone
1965	HORAN EUGENE V	New York Telephone Company

HOSMER AVE

237 HOSMER AVE

Year	Uses	Source
2005	h Piccininni Marie AA	Hill-Donnelly Information Services
2000	DOLORES CORRADO	Cole Information
1993	PICCININNI Marie	New York Telephone

FINDINGS

240 HOSMER AVE

Year	Uses	Source
2020	ANTONIO GARCIA	EDR Digital Archive
	MARIA TORRES	EDR Digital Archive
	ERIC GARCIA	EDR Digital Archive
2017	ANTONIO GARCIA	Cole Information
	NELIDA RUIZ	Cole Information
	MARIA TORRES	Cole Information
2014	TORRES MARIA	Cole Information
	EDDIE ARENAS	Cole Information
	MARIA TORRES	Cole Information
	ANGEL CHAVEZ	Cole Information
	MARIE SMITH	Cole Information
2010	ORNAN CORCINO	Cole Information
	MARIA TORRES	Cole Information
2005	Corcino Oman v YO	Hill-Donnelly Information Services

245 HOSMER AVE

Year	Uses	Source
2020	JOACHIM RILEY	EDR Digital Archive
	ELBA RILEY	EDR Digital Archive
2014	JOSEPH RILEY	Cole Information
2010	OCCUPANT UNKNOWN	Cole Information
2005	H Coppinger R J Sr A	Hill-Donnelly Information Services
2000	RAYMOND COPPINGER	Cole Information

246 HOSMER AVE

Year	Uses	Source
2014	LINDA CICALE	Cole Information
2010	LINDA CICALE	Cole Information
2005	NCL	Hill-Donnelly Information Services
2000	LUCIEN CHOUINARD	Cole Information
1993	MEURER Martin	New York Telephone
1992	MEURER, MARTIN	Cole Information
1940	Meurer Martin	New York Telephone

FINDINGS

248 HOSMER AVE

Year	Uses	Source
2020	WEI LIN	EDR Digital Archive
	ASHLEY PAGE	EDR Digital Archive
	SABRINA PADILLA	EDR Digital Archive
2017	CHRISITNE GIFF	Cole Information
	NORBERTO HIERRO	Cole Information
	ZHOU LIN	Cole Information
2014	CHRISITNE GIFF	Cole Information
	JING LIN	Cole Information
2010	CHEN LEI	Cole Information
	ANDREW FELDMAN	Cole Information
	JING LIN	Cole Information
2005	JING LIN	Cole Information

250 HOSMER AVE

Year	Uses	Source
2020	BELKIS PEREZ	EDR Digital Archive
	DALILA PEREZ	EDR Digital Archive
2017	BELKIS PEREZ	Cole Information
2014	BIANCA MALDONADO	Cole Information
	BELKIS PEREZ	Cole Information
2010	BELKIS PEREZ	Cole Information
2005	BELKIS PEREZ	Cole Information

251 HOSMER AVE

Year	Uses	Source
2020	SAJIT TAXI INC	EDR Digital Archive
	SYED SHAMSUZZAMAN	EDR Digital Archive
	FARAH SHAMSUZZAMAN	EDR Digital Archive
	ANGELA SALAZAR	EDR Digital Archive
2017	ANGELA SALAZAR	Cole Information
2014	SYED SHAMSUZZAMAN	Cole Information
	ANGELA SALAZAR	Cole Information
2010	ANGELA DURAN	Cole Information

FINDINGS

Year	Uses	Source
2010	SYED SHAMSUZZAMAN	Cole Information
2005	JASHIM WORLDWIDE	Cole Information
	SYED SHAMSUZZAMAN	Cole Information
	JASHIM AHMED	Cole Information
	Ahmed Jashim v	Hill-Donnelly Information Services
	Jashim Waorldw ide	Hill-Donnelly Information Services
	Shamsuzzaman Syed A	Hill-Donnelly Information Services
2000	SYED SHAMSUZZAMAN	Cole Information

252 HOSMER AVE

Year	Uses	Source
2020	ATOLIA MCFARLANE	EDR Digital Archive
	MIRTHA MALDONADO	EDR Digital Archive
	MEI ZHU	EDR Digital Archive
	FANG MEI	EDR Digital Archive
	LEI CHEN	EDR Digital Archive
2017	CUIFEN DONG	Cole Information
2014	KATHERINE THATCHER	Cole Information
2010	FANG MEI	Cole Information
2005	MEI ZHU	Cole Information
	h Zhu Mel Fang v	Hill-Donnelly Information Services

253 HOSMER AVE

Year	Uses	Source
2020	DEBORAH FELDMAN	EDR Digital Archive
	CHENG CHUEN	EDR Digital Archive
	PARISSA SUAREZ	EDR Digital Archive
	JOHN CHENG	EDR Digital Archive
2017	MELISSA GONZALEZ	Cole Information
	PARISSA SUAREZ	Cole Information
2014	MELISSA GONZALEZ	Cole Information
	LIEN NGUYEN	Cole Information
	CAROLINE BRANCATO	Cole Information
	ALFRED ROMAN	Cole Information

FINDINGS

Year	Uses	Source
2010	CAROLINE BRANCATO	Cole Information
	MICHAEL HADSHIAN	Cole Information
	BRUCE FELDMAN	Cole Information
2005	CAROLINE BRANCATO	Cole Information
	C BRANCTO	Cole Information
	ABE MASSA	Cole Information
	h Massa Barbara A A	Hill-Donnelly Information Services
2000	CHRIS VERINI	Cole Information
	MICHAEL HADSHIAN	Cole Information

254 HOSMER AVE

Year	Uses	Source
2020	VICTOR GARCIA	EDR Digital Archive
	IRENE YUSIM	EDR Digital Archive
	STACY GARCIA	EDR Digital Archive
	KAREN CHEDDESINGH	EDR Digital Archive
	SALVATORE CAPALBO	EDR Digital Archive
	MERCEDEZ WILLIAMS	EDR Digital Archive
	DELANO WILLIAMS	EDR Digital Archive
	FELICIANO RAMIREZ	EDR Digital Archive
2017	LINDA GARCIA	Cole Information
	ROBERT GRIFFIN	Cole Information
2014	ROBERT GRIFFIN	Cole Information
	FELICIANO RAMIREZ	Cole Information
2010	IRENE YUSIM	Cole Information
	ANGEL SOSA	Cole Information
2005	IRENE YUSIM	Cole Information
	SALVATORE CAPALBO	Cole Information
	STEVEN ZABSKI	Cole Information
	NCL	Hill-Donnelly Information Services

255 HOSMER AVE

Year	Uses	Source
2020	HYACINTH SIMPSON	EDR Digital Archive

FINDINGS

Year	Uses	Source
2020	ERROL ANGELL	EDR Digital Archive
	CHRISTINA DECLET	EDR Digital Archive
	RICHARD REID	EDR Digital Archive
2017	HYACINTH SIMPSON	Cole Information
	JOANNE RIVERA	Cole Information
	CHRISTINA DECLET	Cole Information
	DOMINIQUE ANGELL	Cole Information
2014	HYACINTH SIMPSON	Cole Information
	DIEGO DEJESUS	Cole Information
	PEDRO MARTINEZ	Cole Information
	CHRISTINA DECLET	Cole Information
	OCCUPANT UNKNOWN	Cole Information
2010	AHMED MOSTAQUE	Cole Information
	HYACINTH SIMPSON	Cole Information
	DIEGO DEJESUS	Cole Information
	ERNIE OBRIEN	Cole Information
	OCCUPANT UNKNOWN	Cole Information
	SIMPSON HYACINTH	Cole Information
2005	AHMED MOSTAQUE	Cole Information
	ISABEL MENDEZ	Cole Information
	MOHAMMAD AHMED	Cole Information
	MASTAQUE AHRIED	Cole Information
	Rugs D vo	Hill-Donnelly Information Services

256 HOSMER AVE

Year	Uses	Source
2020	ASANTE BRIGHT	EDR Digital Archive
	MICHAEL BRIGHT-ASANT	EDR Digital Archive
	MARQUISHA MCBEAN	EDR Digital Archive
	PATRICK HILL	EDR Digital Archive
2017	MICHAEL ASANTE	Cole Information
	PATRICK HILL	Cole Information
2014	MICHAEL ASANTE	Cole Information

FINDINGS

Year	Uses	Source
2014	ANGELA JARVIS	Cole Information
2010	SHAWN JARVIS	Cole Information
2005	WHEELS PLUS INC	Cole Information
	RICKA BLAKE	Cole Information
	SHAWN JARVIS	Cole Information
	ANGELA SORIANO	Cole Information
	Wheels Plus Inc 1 R	Hill-Donnelly Information Services

257 HOSMER AVE

Year	Uses	Source
2020	ECO HOME IMPROVEMENT LLC	EDR Digital Archive
	JASMIN CLARKE	EDR Digital Archive
	DAVID CLARKE	EDR Digital Archive
2017	BRIAN GRANADOS	Cole Information
	CLARKE JASMIN	Cole Information
	ANTHONY COLASANTI	Cole Information
	RODNEY ROJAS	Cole Information
	DAVID HOWARD	Cole Information
2014	JASMINE GRANADOS	Cole Information
	CLARKE JASMIN	Cole Information
2010	JASMINE GRANADOS	Cole Information
	DAVID HOWARD	Cole Information
2005	JASMIN HOWARD	Cole Information
	MICHELLE GOODE	Cole Information
	JASMIN CLARKE	Cole Information
	NADINE DECOSTA	Cole Information
	H Clarke Jasmin v&	Hill-Donnelly Information Services
2000	DAVID CLARKE	Cole Information

258 HOSMER AVE

Year	Uses	Source
2020	GARCIA ZAIDA	EDR Digital Archive
	WILLIAM ROMAN	EDR Digital Archive
	LUIS SANTIAGO	EDR Digital Archive

FINDINGS

Year	Uses	Source
2017	LUIS SANTIAGO	Cole Information
2014	GARCIA ZAIDA	Cole Information
	JASMIN GALLOWAY	Cole Information
	ZAIDA GARCIA	Cole Information
	LUIS SANTIAGO	Cole Information
2010	GARCIA ZAIDA	Cole Information
	ZAIDA GARCIA	Cole Information
	LUIS SANTIAGO	Cole Information
	OCCUPANT UNKNOWN	Cole Information
2005	GARCIA ZAIDA	Cole Information
	JASMIN GALLOWAY	Cole Information
	ZAIDA GARCIA	Cole Information
	LUIS SANTIAGO	Cole Information
	SOULEYMANE TRAORE	Cole Information
	OCCUPANT UNKNOWN	Cole Information
	H Garcia ZY A	Hill-Donnelly Information Services

259 HOSMER AVE

Year	Uses	Source
2020	MILADY LOPEZ	EDR Digital Archive
	RUBEN RAHMAN	EDR Digital Archive
	FERDOUSI RAHMAN	EDR Digital Archive
	IVAN RAHMAN	EDR Digital Archive
	ANWARUL AZIM	EDR Digital Archive
	MATIUR RAHMAN	EDR Digital Archive
2017	VICTOR DICKSON	Cole Information
	MILADY LOPEZ	Cole Information
	TAMARA VASQUEZ	Cole Information
2014	VICTOR DICKSON	Cole Information
	MILADY LOPEZ	Cole Information
	QAZI AHMED	Cole Information
2010	MILADY LOPEZ	Cole Information
	ANWARA BEGUM	Cole Information

FINDINGS

Year	Uses	Source
2010	SAMIRA AHMED	Cole Information
2005	MILADY LOPEZ	Cole Information
	ANWARA BEGUM	Cole Information
	ANWARUL AZIM	Cole Information
	RAHMAN MATIUR	Cole Information
	Azim Anw arul v	Hill-Donnelly Information Services
	Begum Anw ara v	Hill-Donnelly Information Services
	Lopez Milady v	Hill-Donnelly Information Services

260 HOSMER AVE

Year	Uses	Source
2020	RONALD MANNIELLO	EDR Digital Archive
	LISA CORREALE	EDR Digital Archive
	ANTHONY CORREALE	EDR Digital Archive
	CAROLINA MOREIRA	EDR Digital Archive
	TONI RAGUSA	EDR Digital Archive
2017	RONALD MANNIELLO	Cole Information
	JOSEPH RAGUSA	Cole Information
	ANTHONY CORREALE	Cole Information
	CAROLINA MOREIRA	Cole Information
2014	RAGUSA JOSEPH	Cole Information
	JOSEPH RAGUSA	Cole Information
	ANTHONY CORREALE	Cole Information
	CAROLINA MOREIRA	Cole Information
2010	JOSEPH RAGUSA	Cole Information
2005	JOSEPH RAGUSA	Cole Information
	Ragusa Joseph	Hill-Donnelly Information Services
	H Ragusa Joseph A	Hill-Donnelly Information Services

261 HOSMER AVE

Year	Uses	Source
2017	LOURDES DIAZ	Cole Information
2014	CARLOS VELEZ	Cole Information
	F MODESTO	Cole Information

FINDINGS

Year	Uses	Source
2014	MODESTO MERCADO	Cole Information
2010	CARLOS VELEZ	Cole Information
	MODESTO MERCADO	Cole Information
2005	MODESTO MERCADO	Cole Information
2000	GILBERT FLORES	Cole Information

262 HOSMER AVE

Year	Uses	Source
2020	JESSICA MALDONADO	EDR Digital Archive
	DARLENE HUERTAS	EDR Digital Archive
	DAYMOND NOBLE	EDR Digital Archive
	RAMON MALDONADO	EDR Digital Archive
	CARMEN HUERTAS	EDR Digital Archive
	JUAN DEJESUS	EDR Digital Archive
2017	DARLENE HUERTAS	Cole Information
	DAYMOND NOBLE	Cole Information
	RAYMON MALDONADO	Cole Information
	JUAN DEJESUS	Cole Information
2014	DARLENE HUERTAS	Cole Information
	DAYMOND NOBLE	Cole Information
	RAYMON MALDONADO	Cole Information
2010	ERIC COLEMAN	Cole Information
2005	DARLENE HUERTAS	Cole Information
	h Ma Tdonado Raymon v	Hill-Donnelly Information Services

263 HOSMER AVE

Year	Uses	Source
2020	YOLANDA MENDEZ	EDR Digital Archive
	MELISSA MENDEZ	EDR Digital Archive
2014	MARIANO GONZALEZ	Cole Information
2005	MARGOT GONZALEZ	Cole Information
	MYRNA MENDEZ	Cole Information
2000	MELISSA MENDEZ	Cole Information

FINDINGS

264 HOSMER AVE

Year	Uses	Source
2020	EDWIN HERNANDEZ	EDR Digital Archive
2017	BASSEY ASANG	Cole Information
	JONAH UBONG	Cole Information
	UBONG JONAH	Cole Information
	LETICIA SANCHEZ	Cole Information
2014	IVETTE SANTIAGO	Cole Information
	MARCOS SANCHEZ	Cole Information
	ROBERT SERRONO	Cole Information
	GEORGE SINGELAKIS	Cole Information
2010	MARROS SANCHEZ	Cole Information
2005	MARROS SANCHEZ	Cole Information
	H Sanchez Leticia A	Hill-Donnelly Information Services

265 HOSMER AVE

Year	Uses	Source
2020	DESIREE CHAVIER	EDR Digital Archive
	DENISE CHAVIER	EDR Digital Archive
	CONSTANCE HILL	EDR Digital Archive
	MARIA CHAVIER	EDR Digital Archive
2017	DENISE CHAVIER	Cole Information
2014	DENISE CHAVIER	Cole Information
2010	MARIA CHAVIER	Cole Information
2005	MARIA CHAVIER	Cole Information
	Chavier D A	Hill-Donnelly Information Services

266 HOSMER AVE

Year	Uses	Source
2020	ALBERTO MALDONADO	EDR Digital Archive
	CHAVEZ GILBERT	EDR Digital Archive
	ROSE CHAVEZ	EDR Digital Archive
	JADELING CHAVEZ	EDR Digital Archive
	CESAR TELLO	EDR Digital Archive
	MARLINE CHAVEZ	EDR Digital Archive

Year	Uses	Source
2017	CHRISTIAN VALERO	Cole Information
	GILBERT CHAVEZ	Cole Information
	FATEMA ZOHORA	Cole Information
2014	ELBA GARNIER	Cole Information
	ELBA MARRERO	Cole Information
	GILBERT CHAVEZ	Cole Information
	CHAVEZ GILBERT	Cole Information
	GILBERTO CHAVEZ	Cole Information
	JACQUELINE DUGGINS	Cole Information
	YESENIA RIVERA	Cole Information
	FATEMA ZOHORA	Cole Information
2010	GILBERT CHAVEZ	Cole Information
	CHAVEZ GILBERT	Cole Information
	JACQUELINE DUGGINS	Cole Information
	FATEMA ZOHORA	Cole Information
	YESENIA RIVERA	Cole Information
2005	GILBERT CHAVEZ	Cole Information
	CHAVEZ GILBERT	Cole Information
	YESENIA RIVERA	Cole Information
	Rivera Yesenia YO	Hill-Donnelly Information Services

267 HOSMER AVE

Year	Uses	Source
2020	PALOMA FIGUEROA	EDR Digital Archive
	BIANCA FIGUEROA	EDR Digital Archive
	REYNALDO CHEVER	EDR Digital Archive
	REY CHEVERE	EDR Digital Archive
	CARLOTA CHEVERE	EDR Digital Archive
2017	JAIDEN MOORE	Cole Information
2014	CHEVERE REYNALDO	Cole Information
	REYNALDO CHEVERE	Cole Information
2010	BIANCA FIGUEROA	Cole Information
	REYNALDO CHEVERE	Cole Information

FINDINGS

Year	Uses	Source
2005	ROBERT SAVAGE	Cole Information
	LEANDRO VELEZ	Cole Information
	DIANA DIAZ	Cole Information
	REYNALDO CHEVERE	Cole Information
	NCL	Hill-Donnelly Information Services
2000	NELLIE MOLINARES	Cole Information

268 HOSMER AVE

Year	Uses	Source
2020	KHAN WILLIAMS	EDR Digital Archive
	DAVID AFRAM	EDR Digital Archive
	DOROTHY ABBAN	EDR Digital Archive
	GODFRED AFRAM	EDR Digital Archive
	ALTHEA YOUNG	EDR Digital Archive
	JOSE JARAMILLO	EDR Digital Archive
2017	PHILLIE DIAZ	Cole Information
	LINDA MOLINA	Cole Information
	ALTHEA YOUNG	Cole Information
	CHEYENNE AFRAM	Cole Information
2014	ANGELES RODRIGUEZ	Cole Information
	DANNY MALDONATO	Cole Information
	PHILLIE DIAZ	Cole Information
	LINDA MOLINA	Cole Information
	DOROTHY ABBAN	Cole Information
	ALTHEA YOUNG	Cole Information
	C BENNETT	Cole Information
	FERNANDO ROMERO	Cole Information
2010	DANNY MALDONATO	Cole Information
	LINDA MOLINA	Cole Information
	JUAN LI	Cole Information
	GODFRED AFRAM	Cole Information
	INDIRA RODRIGUEZ	Cole Information
	FERNANDO ROMERO	Cole Information

FINDINGS

269 HOSMER AVE

Year	Uses	Source
2020	CARMEN TORRES	EDR Digital Archive
	DANIEL NIEVES	EDR Digital Archive
	JONATHAN NIEVES	EDR Digital Archive
2017	CARMEN TORRES	Cole Information
	NIEVES EUFEMIO	Cole Information
	JORGE FLORES	Cole Information
	JULIA SERRANO	Cole Information
2014	ROSA FLORES	Cole Information
	JUAN NUNEZ	Cole Information
	CARMEN TORRES	Cole Information
	JULIA SERRANO	Cole Information
2010	EUFEMIO NIEVES	Cole Information
	MELISSA BONTZOLAKES	Cole Information
	LIONEL HAMILTON	Cole Information
	ROBERT DELGADO	Cole Information
2005	YOLANDA MENDEZ	Cole Information
	EUFEMIO NIEVES	Cole Information
	MELISSA BONTZOLAKES	Cole Information
	ANTONIO ARROYO	Cole Information
	Bontzolakes Melissa v	Hill-Donnelly Information Services
	Nieves Eufemio Av	Hill-Donnelly Information Services
2000	EUFEMIO NIEVES	Cole Information
	JUAN CELAYA	Cole Information
	BEATRIZ CHAVEZ	Cole Information

270 HOSMER AVE

Year	Uses	Source
2020	IVELISSE ROMERO	EDR Digital Archive
	ILEINI ROMERO	EDR Digital Archive
	FERNANDO ROMERO	EDR Digital Archive
2017	FERNANDO ROMERO	Cole Information
	LUCAS HERNANDEZ	Cole Information

Year	Uses	Source
2014	MARIA COLON	Cole Information
	FERNANDO ROMERO	Cole Information
2010	CESAR NATANIEL	Cole Information
	FERNANDO ROMERO	Cole Information
2005	FERNANDO ROMERO	Cole Information

271 HOSMER AVE

Year	Uses	Source
2020	LOUISE PILLA	EDR Digital Archive
	JOHN PILLA	EDR Digital Archive
	GABRIELLE PILLA	EDR Digital Archive
2017	JOHN PILLA	Cole Information
2014	MICHAEL PILLA	Cole Information
2010	MICHAEL PILLA	Cole Information
2005	OCCUPANT UNKNOWN	Cole Information
	H Pilla Michael	Hill-Donnelly Information Services
2000	MICHAEL PILLA	Cole Information

277 HOSMER AVE

Year	Uses	Source
2020	THOMASINA DEROSE	EDR Digital Archive
	JOHN DEROSE	EDR Digital Archive
	DE JOHN	EDR Digital Archive
2017	RICHARD WOLNER	Cole Information
2014	JOHN DEROSE	Cole Information
2010	JOHN DEROSE	Cole Information
2005	JOHN DEROSE	Cole Information
	H Derose J PA as	Hill-Donnelly Information Services
1993	DEROSE John	New York Telephone
1992	DEROSE, JOHN	Cole Information

278 HOSMER AVE

Year	Uses	Source
2020	ADELSO RAMIREZ	EDR Digital Archive

Year	Uses	Source
2020	GLORIA QUINONES	EDR Digital Archive
	GLORIA ASENJO	EDR Digital Archive
2017	LIDIA FERRANDO	Cole Information
	GLORIA QUINONES	Cole Information
2014	LIDIA FERRANDO	Cole Information
2010	LIDIA FERRANDO	Cole Information
2005	FRANK COCCA	Cole Information
	H Cocca F G A	Hill-Donnelly Information Services

295 HOSMER AVE

Year	Uses	Source
2014	ANDRIETTE HOLMES	Cole Information
2010	ANDRIETTE HOLMES	Cole Information

HOSMER AVE # 2

248 HOSMER AVE # 2

Year	Uses	Source
2020	JING LIN	EDR Digital Archive
	ZHOU LIN	EDR Digital Archive

HOSMER AVE # A

256 HOSMER AVE # A

Year	Uses	Source
2020	GINA ASIEDU	EDR Digital Archive

257 HOSMER AVE # A

Year	Uses	Source
2020	SHARON ROHAN	EDR Digital Archive

258 HOSMER AVE # A

Year	Uses	Source
2020	JEANETTE SANTIAGO	EDR Digital Archive

259 HOSMER AVE # A

Year	Uses	Source
2020	ANWARA BEGUM	EDR Digital Archive
	ALEXANDER AGYARE	EDR Digital Archive
	TAMARA VASQUEZ	EDR Digital Archive

269 HOSMER AVE # A

Year	Uses	Source
2020	EUFEMIO NIEVES	EDR Digital Archive

HOSMER AVE # B

259 HOSMER AVE # B

Year	Uses	Source
2020	IVORY COLES	EDR Digital Archive
	MILADY DICKSON	EDR Digital Archive
	VICTOR DICKSON	EDR Digital Archive

261 HOSMER AVE # B

Year	Uses	Source
2020	JOHANNIE MERCADO	EDR Digital Archive
	EDDY MARCANO	EDR Digital Archive
	CATHERINE MERCADO	EDR Digital Archive
	MODESTO MERCADO	EDR Digital Archive
	ANNETTE MERCADO	EDR Digital Archive

HUTCHINSON RIVER PKWY

400 HUTCHINSON RIVER PKWY

Year	Uses	Source
2000	JOYLENE ROWE	Cole Information

420 HUTCHINSON RIVER PKWY

Year	Uses	Source
2014	GARY SCHOFFNER	Cole Information
	KOLU WILLETTE	Cole Information
2010	KOLU WILLETTE	Cole Information

FINDINGS

460 HUTCHINSON RIVER PKWY

Year	Uses	Source
2000	PAUL SCHATZ	Cole Information

500 HUTCHINSON RIVER PKWY

Year	Uses	Source
2014	LAWS CONSTRUCTION CORPORATION	Cole Information
2005	LAWS CONSTRUCTION CORP	Cole Information

553 HUTCHINSON RIVER PKWY

Year	Uses	Source
2017	AHERN PAINTING	Cole Information
2014	APPLIED PROJECTS COMPANY INCORPORATE	Cole Information

555 HUTCHINSON RIVER PKWY

Year	Uses	Source
2020	SHANIA NURSE	EDR Digital Archive
	KOVANE BOGAN	EDR Digital Archive
	ALEXIA MITCHELL	EDR Digital Archive
	JULIO RIVERA	EDR Digital Archive
	MARIA ZAPATA	EDR Digital Archive
	ANGELINA PARRA	EDR Digital Archive
	MONNETTE FRANKLIN	EDR Digital Archive
	KARINA AVILA	EDR Digital Archive
	MARQUIS MOSS	EDR Digital Archive
	RONALD FERNANDEZ	EDR Digital Archive
	KEYASHA SHABAZZ	EDR Digital Archive
	HEMRAJIE RAMHARRACK	EDR Digital Archive
	MONA RICHARDS	EDR Digital Archive
2017	BASIC HOUSING INC	Cole Information
	UNICAR UNICAR	Cole Information
	CAPRI WHITESTONE MOTEL	Cole Information
2014	CAPRI WHITESTONE HOTEL	Cole Information
	WHITESTONE BRONX MOTEL	Cole Information
2010	SAMMYS GOURMET	Cole Information

Year	Uses	Source
2010	CAPRI WHITESTONE MOTEL	Cole Information
2000	CAPRI WHITESTONE MOTEL	Cole Information
	B & S LUNCHEONETTE CORPORATION	Cole Information
	BRONX WHITESTONE MOTEL	Cole Information
	CAPRI WHITESTONE MOTEL	Cole Information

700 HUTCHINSON RIVER PKWY

Year	Uses	Source
2017	TRUMP FERRY POINT LLC	Cole Information
	TRUMP NATIONAL GOLF CLUB	Cole Information
2014	TRUMP FERRY POINT LLC	Cole Information

HUTCHINSON RIVER PKY

500 HUTCHINSON RIVER PKY

Year	Uses	Source
2020	TRUMP GOLF LINKS FERRY POINT	EDR Digital Archive
2005	Gannett Fleming Inc 1 P	Hill-Donnelly Information Services
	Law s Construction Corp	Hill-Donnelly Information Services

553 HUTCHINSON RIVER PKY

Year	Uses	Source
2020	AHERN PAINTING	EDR Digital Archive

555 HUTCHINSON RIVER PKY

Year	Uses	Source
2020	BASIC HOUSING INC	EDR Digital Archive
	ATM	EDR Digital Archive
2005	B & S Luncheonette Corp	Hill-Donnelly Information Services
	Greenman Pederson	Hill-Donnelly Information Services
	Greenman Pederson	Hill-Donnelly Information Services
2000	B & S LNCHNTT CORP	Cole Information
	CAPRI WHTSTN MTL	Cole Information
	KISKA DVLPRS INC	Cole Information
	WHTSTN BRONX MTL	Cole Information

FINDINGS

Year	Uses	Source
1995	B & S LUNCHEONETTE CORP	Cole Information
	WHITESTONE BRONX MOTEL	Cole Information
	CAPRI WHITESTONE MOTEL	Cole Information
1992	B & S LUNCHEONETTE CORP	Cole Information
	WHITESTONE BRONX MOTEL	Cole Information
	CAPRI WHITESTONE MOTEL	Cole Information

HUTCHNSNRIVER PKY

620 HUTCHNSNRIVER PKY

Year	Uses	Source
1965	YOUNG SAML H POST AMER LEGION 1530 HUTCHNSN RIV PKWY	New York Telephone Company

JAY PL

2471 JAY PL

Year	Uses	Source
1931	Gustanson Nils	Manhattan and Bronx Directory Publishing Company Residential Directory
	Rella Steph	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Quinn J Mrs r	New York Telephone

2478 JAY PL

Year	Uses	Source
1931	Hattrick John	Manhattan and Bronx Directory Publishing Company Residential Directory
	Hattrick Vincent	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Hattrick John r	New York Telephone

2483 JAY PL

Year	Uses	Source
1931	Johnson Emil	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Johnson Fred r	New York Telephone

FINDINGS

LACOMBE AVE

2303 LACOMBE AVE

Year	Uses	Source
1993	SCIACOVELLI PHYLLIS	New York Telephone

2311 LACOMBE AVE

Year	Uses	Source
1993	DALIMONTE CAMILLO	New York Telephone
1983	D ALIMONTE CAMILLO	New York Telephone
1976	D ALIMONTE CAMILLN	New York Telephone Company
1971	D ALIMONTE CAMILLO	New York Telephone
1965	HUTTON ELIZ H MRS	New York Telephone Company

2375 LACOMBE AVE

Year	Uses	Source
1983	RIVERA MARTE	New York Telephone

LACOMBE AVE

0 LACOMBE AVE

Year	Uses	Source
2005	Tract 36005:20 odd s	Hill-Donnelly Information Services
	Tract 36005:2 even s	Hill-Donnelly Information Services

2311 LACOMBE AVE

Year	Uses	Source
2020	MELANIE DALIMONTE	EDR Digital Archive
	JAMES CORDERO	EDR Digital Archive
	NICOLE DALIMONTE	EDR Digital Archive
	DORIS DALIMONTE	EDR Digital Archive
2017	MELANIE ALIMONTE	Cole Information
2014	DORIS DALIMONTE	Cole Information
2005	H Dalimonte Camillo AV	Hill-Donnelly Information Services
	Sako T v	Hill-Donnelly Information Services
2000	CAMILLO DALIMONTE	Cole Information
	CAMILLO DALIMONTE	Cole Information

FINDINGS

Year	Uses	Source
1993	DALIMONTE Camillo	New York Telephone
1992	D'ALIMONTE, CAMILLO	Cole Information

2325 LACOMBE AVE

Year	Uses	Source
2014	BETTY MCCOY	Cole Information

MILES AVE

2576 MILES AVE

Year	Uses	Source
2020	LISA ROMAN-VASILAKOS	EDR Digital Archive
	MINERVA RIVERA	EDR Digital Archive
	JOSE CANDELARIA	EDR Digital Archive
	EDWIN RODRIGUEZ	EDR Digital Archive
2017	LISA ROMANVASILKOS	Cole Information
	LINDA FRANCESCHINI	Cole Information
	EDWIN RODRIGUEZ	Cole Information
2014	LISA ROMAN-VASILAKOS	Cole Information
	JOSE CANDELARIA	Cole Information
2010	TOM MEYERS	Cole Information
	JOSE CANDELARIA	Cole Information
2005	ROSA MIRANDA	Cole Information
	JOAQUIN MELENDEZ	Cole Information
	OCCUPANT UNKNOWN	Cole Information
	JULISSA SUERO	Cole Information
	EDWIN RODRIGUES	Cole Information
	EDWIN RODRIGUEZ	Cole Information
	AMANDA MATHEWSON	Cole Information
	H Rodriguez EL A	Hill-Donnelly Information Services
	Tract 36005:110 odd s	Hill-Donnelly Information Services
	Tract 36005:132 even s	Hill-Donnelly Information Services

FINDINGS

2578 MILES AVE

Year	Uses	Source
2020	CHARLENE ESPONDA	EDR Digital Archive
	ERIC OCASIO	EDR Digital Archive
	TANIA RUIZ	EDR Digital Archive
	SAMANTHA COLON	EDR Digital Archive
2017	NOHELY SUAREZ	Cole Information
	TANIA RUIZ	Cole Information
2014	JOHN LEWIN	Cole Information
	EDWIN RODRIGUEZ	Cole Information
	CHRISTOPHER LANDESTOY	Cole Information
	LUCINDA ATILES	Cole Information
	TANIA RUIZ	Cole Information
2010	EDWIN RODRIGUEZ	Cole Information
	CHARLENE ESPONDA	Cole Information
	JULIO JOHN	Cole Information
	WENDY SANTOS	Cole Information
	LUCINDA GARCIA	Cole Information
	DANYELLE COLON	Cole Information
2005	G FERNANDEZ	Cole Information
	CHARLENE ESPONDA	Cole Information
	Esponda Chardene v	Hill-Donnelly Information Services
	Rodriguez Edw in v	Hill-Donnelly Information Services

2580 MILES AVE

Year	Uses	Source
2020	CARLLENI CESPEDES	EDR Digital Archive
	MARIA MORALES	EDR Digital Archive
	ALFREDO MARTINEZ	EDR Digital Archive
	JASON SCOTT	EDR Digital Archive
	AMINATA BAH	EDR Digital Archive
	AMPARO CESPEDES	EDR Digital Archive
2017	MARIA MORLAES	Cole Information
	AMARIS GARCIA	Cole Information

FINDINGS

Year	Uses	Source
2017	JASON SCOTT	Cole Information
2014	AMANDA BROWNTATE	Cole Information
	MARIA MORLAES	Cole Information
	AMARIS GARCIA	Cole Information
	DAVID LICON	Cole Information
	JASON SCOTT	Cole Information
2010	VICTORIA HERNANDEZ	Cole Information
	DESTINY ATILES	Cole Information
	AMARIS GARCIA	Cole Information
	ELAINE PETRIZZI	Cole Information
	JASON SCOTT	Cole Information
	KENIA RAMOS	Cole Information
	DAVID LICON	Cole Information
	BOVI DELLE	Cole Information
2005	JOANNE PICCININNI	Cole Information
	MADELINE GIACCHETTO	Cole Information
	ELAINE PETRIZZI	Cole Information
	KENIA RAMOS	Cole Information
	Glacchetto M v	Hill-Donnelly Information Services
	Ramos Kenia v	Hill-Donnelly Information Services

2582 MILES AVE

Year	Uses	Source
2020	JOHN LEWIN	EDR Digital Archive
	LETISHA COHEN	EDR Digital Archive
	PRESTON CHAPLIN	EDR Digital Archive
	PRESTASIA COHEN	EDR Digital Archive
	MAGDA PEREZ	EDR Digital Archive
	CASSANDRA COHEN	EDR Digital Archive
	AUTUMN RICHARDSON	EDR Digital Archive
	ANTHONY NAZARIO	EDR Digital Archive
2017	LETISHA COHEN	Cole Information
2014	JUDITH TAYLOR	Cole Information

FINDINGS

Year	Uses	Source
2014	SAMARA LEBRON	Cole Information
2010	JOHN LEWIN	Cole Information
2005	VICTOR FAUSTO	Cole Information
	MAURO PICCININNI	Cole Information
	CARRIE GREENE	Cole Information
	PICCININNI MAURO	Cole Information
	2584 NCL	Hill-Donnelly Information Services

2584 MILES AVE

Year	Uses	Source
2020	THOMAS ASANTE	EDR Digital Archive
	SONIA VELEZ	EDR Digital Archive
	NADINE PEDROSO	EDR Digital Archive
	GONZALO CORRIDORI	EDR Digital Archive
	ESTHER OBIRI	EDR Digital Archive
	JEROME PEDROSO	EDR Digital Archive
2017	THOMAS ASANTE	Cole Information
	DAVID FELLI	Cole Information
	JOYCE COLLIER	Cole Information
	TOMAS BATISTA	Cole Information
2014	JOYCE COLLIER	Cole Information
	CHRISTIN LOPEZ	Cole Information
2010	DAVID FELLI	Cole Information
	JOYCE COLLIER	Cole Information
	LEONARD PEDROSO	Cole Information
2005	JOYCE COLLIER	Cole Information
	DONALD DELLEBOVI	Cole Information

2585 MILES AVE

Year	Uses	Source
2010	MAGDA PEREZ	Cole Information
2005	MAGDA PEREZ	Cole Information

FINDINGS

2586 MILES AVE

Year	Uses	Source
2020	JULIEN STEWART	EDR Digital Archive
	KYLE EDWARD	EDR Digital Archive
	KASSIE MARAJAH	EDR Digital Archive
	RON EDWIN	EDR Digital Archive
	JULIET DESOUZA	EDR Digital Archive
	ASHELY VEGA	EDR Digital Archive
2017	JULIEN STEWART	Cole Information
	STEWART HENRY	Cole Information
	JULIET DESOUZA	Cole Information
	BEE STARR	Cole Information
2014	JULIEN STEWART	Cole Information
	STEWART HENRY	Cole Information
	JULIET DESOUZA	Cole Information
2010	JULIEN STEWART	Cole Information
2005	J JASMINE	Cole Information
	h Jasmine J	Hill-Donnelly Information Services

2588 MILES AVE

Year	Uses	Source
2020	JOSE QUINTERO	EDR Digital Archive
	SANTIAGO ZABALA	EDR Digital Archive
	XIOMARA ZABALA	EDR Digital Archive
	VICTOR PINALES	EDR Digital Archive
2017	JULIO SANTOS	Cole Information
	MAYORIS PRESBOT	Cole Information
2014	BILLY MORALES	Cole Information
	GENEVA ORTIZ	Cole Information
	LAYDA NEGRIN	Cole Information
	MAYORIS PRESBOT	Cole Information
2010	ROSA CUEVAS	Cole Information
	ZABALA SANTIAGO	Cole Information
	SANTIAGO ZABALA	Cole Information

FINDINGS

Year	Uses	Source
2005	LAYDA NEGRIN	Cole Information
	h Negnrin Layda v	Hill-Donnelly Information Services

2590 MILES AVE

Year	Uses	Source
2020	YOLANDA FONTANEZ	EDR Digital Archive
	CHANTEL RODRIGUEZ	EDR Digital Archive
	KHALIL SIKANDER	EDR Digital Archive
	ANGEL MUNIZ	EDR Digital Archive
2017	YOLANDA FONTANEZ	Cole Information
	CHANTEL RODRIGUEZ	Cole Information
	ABNER MUNIZ	Cole Information
	GEORGE LAMB	Cole Information
2014	YOLANDA FONTANEZ	Cole Information
	CHANTEL RODRIGUEZ	Cole Information
	GEORGE LAMB	Cole Information
2010	JUSTO MENDEZ	Cole Information
2005	ROBERT CANATORE	Cole Information
	JUSTO MENDEZ	Cole Information
	ROBERT CANTATORE	Cole Information
	H Cantatore R	Hill-Donnelly Information Services

2600 MILES AVE

Year	Uses	Source
2020	GREGORY PASSALACQUA	EDR Digital Archive
	JULIAN PASSALACQUA	EDR Digital Archive
	ALONIA WHITE	EDR Digital Archive
	SARAH PASBALAQUA	EDR Digital Archive
	NADINE PASSALACQUA	EDR Digital Archive
2017	GREGORY PASSALACQUA	Cole Information
	JULIAN PASSALACQUA	Cole Information
2014	GREGORY PASSALACQUA	Cole Information
	DAVID SALA	Cole Information
2010	FREDRICK RENODE	Cole Information

FINDINGS

Year	Uses	Source
2010	D SALA	Cole Information
2005	GREGORY PASSALACQUA	Cole Information
	JOSEPH ROCCHIO	Cole Information

2602 MILES AVE

Year	Uses	Source
2020	STANFORD JONES	EDR Digital Archive
	SHENIQUE JONES	EDR Digital Archive
	TERRELL SKINNER	EDR Digital Archive
	MICHAEL JONES	EDR Digital Archive
	ANIKA RICHARDSON	EDR Digital Archive
2017	MICHAEL JONES	Cole Information
2014	MIG INTERNATIONAL	Cole Information
	Z STANFORD	Cole Information
	MICHAEL JONES	Cole Information
2010	STANFORD JONES	Cole Information
	Z STANFORD	Cole Information
	ANIKA RICHARDSON	Cole Information
2005	STANFORD JONES	Cole Information
	Z STANFORD	Cole Information
	GEORGE LAMB	Cole Information
	h Lamb George AV	Hill-Donnelly Information Services

2604 MILES AVE

Year	Uses	Source
2020	GOLAM RAHMAN	EDR Digital Archive
	NAZIFA RAHMAN	EDR Digital Archive
	NIXA ROSADO	EDR Digital Archive
	G RAHMAN	EDR Digital Archive
	REYNALDO ROSADO	EDR Digital Archive
2017	GOLAM RAHMAN	Cole Information
	RAHMAN GOLAM	Cole Information
	ROBERT ROSADO	Cole Information
2014	GOLAM RAHMAN	Cole Information

FINDINGS

Year	Uses	Source
2014	RAHMAN GOLAM	Cole Information
2010	E BONILLA	Cole Information
	GOLAM RAHMAN	Cole Information
	RAHMAN GOLAM	Cole Information
2005	E BONILLA	Cole Information
	GOLAM RAHMAN	Cole Information
	RAHMAN GOLAM	Cole Information
	Bonilla E v	Hill-Donnelly Information Services
	Rahman Gulam AO	Hill-Donnelly Information Services

2606 MILES AVE

Year	Uses	Source
2020	AMANDA LLOYD	EDR Digital Archive
	AMERICO NARDIS	EDR Digital Archive
	CHASTIDY MATEO	EDR Digital Archive
	NICKOLA FRANCIS	EDR Digital Archive
	MARTIN CONTRERAS	EDR Digital Archive
	DEBBIE FRANCIS	EDR Digital Archive
2017	LOAY ALZADEN	Cole Information
	SEAN ALBINO	Cole Information
	AMERICO NARDIS	Cole Information
	FRED LANDO	Cole Information
	DEBBIE FRANCIS	Cole Information
2014	SEAN ALBINO	Cole Information
	AMERICO NARDIS	Cole Information
	DOLORES HAMES	Cole Information
	FRED LANDO	Cole Information
	DAWNETTE MCNEIL	Cole Information
	NICHOLAS BORSANI	Cole Information
2010	DOLORES HAMES	Cole Information
	DAWNETTE MCNEIL	Cole Information
2005	DAWNETTE MCNEIL	Cole Information
	Mcneil Daw nette	Hill-Donnelly Information Services

FINDINGS

2608 MILES AVE

Year	Uses	Source
2020	MERGING MARKETS REALTY CORP	EDR Digital Archive
	TAHEERAH MAHDI	EDR Digital Archive
	MICHELLE RODRIGUEZ	EDR Digital Archive
	S RODRIGUEZ	EDR Digital Archive
	SONIA RODRIGUEZ	EDR Digital Archive
	SANTIAGO VAZQUEZ	EDR Digital Archive
	SHEILA RODRIGUEZ	EDR Digital Archive
	CELSA VAZQUEZ	EDR Digital Archive
2017	TAHEERAH MAHDI	Cole Information
	SHIELA RODRIGUEZ	Cole Information
	ALFONSO RODRIGUEZ	Cole Information
2014	MICHELLE NOEMI	Cole Information
	ALFONSO RODRIGUEZ	Cole Information
2005	NATIONAL URBAN REALTORS ASCTN	Cole Information
	MERGING MARKETS REALTY CORP	Cole Information
	ALFONSO RODRIGUEZ	Cole Information
	Cruz A v	Hill-Donnelly Information Services

2610 MILES AVE

Year	Uses	Source
2020	DEBORAH CORDERO	EDR Digital Archive
	ALFONSO AMELIO	EDR Digital Archive
	ADDVOA AMANKWAAH	EDR Digital Archive
	JOSEPH CORDERO	EDR Digital Archive
	JESSE ODUARAN	EDR Digital Archive
2017	DEBORAH CORDERO	Cole Information
	ERICKA BELLO	Cole Information
2014	ARLENE OLIVARES	Cole Information
	ADAOBI EZE	Cole Information
	EDDIE OYOLA	Cole Information
2010	STEPHANIE PAEZ	Cole Information
	ALFONSO AMELIO	Cole Information

FINDINGS

Year	Uses	Source
2005	MAGNUM MEDIA GROUP INC	Cole Information
	MICHAEL ALLEN	Cole Information
	ALFONSO AMELIO	Cole Information
	JESSE ODUARAN	Cole Information
	Allen Michael v	Hill-Donnelly Information Services
	Oduaran Jesse v	Hill-Donnelly Information Services
1961	KRUPP JOHN G	New York Telephone

2612 MILES AVE

Year	Uses	Source
2020	SARA PIERCE	EDR Digital Archive
	NIESHA SOLLA	EDR Digital Archive
	HAROLD ROSENBAUM	EDR Digital Archive
	BRENDA PORTELA	EDR Digital Archive
	RALPH DIXON	EDR Digital Archive
	JOSHUA ROSENBAUM	EDR Digital Archive
2017	JOSEPH OBRIEN	Cole Information
	CRISEL CALPOTURA	Cole Information
	BRENDA PORTELA	Cole Information
2014	CATHERINE CALPOTURA	Cole Information
	JOSEPH OBRIEN	Cole Information
	MICHAEL PAGAN	Cole Information
2010	CRISEL CALPOTURA	Cole Information
	HAROLD ROSENBAUM	Cole Information
2005	KRISTI GOURDINE	Cole Information
	Gourdine Kristi v	Hill-Donnelly Information Services

2614 MILES AVE

Year	Uses	Source
2020	IRMA ORTIZ	EDR Digital Archive
	BRENDA ORTIZ	EDR Digital Archive
2017	IRMA ORTIZ	Cole Information
2014	CRUZ ORTIZ	Cole Information
2010	JOSE ORTIZ	Cole Information

Year	Uses	Source
2005	JOSE ORTIZ	Cole Information

SCHLEY AVE

2604 SCHLEY AVE

Year	Uses	Source
1993	WILKERSON CHILDRES B	New York Telephone

2616 SCHLEY AVE

Year	Uses	Source
1971	MALAVE MARIA	New York Telephone

SCHLY AVE

2604 SCHLY AVE

Year	Uses	Source
1993	WILKERSON Childres B	New York Telephone

YZNAGA PL

520 YZNAGA PL

Year	Uses	Source
1993	SHAW ELIZABETH	New York Telephone
1976	ROBINSON RUTH	New York Telephone Company
	ROBINSON RUTH	New York Telephone Company
1971	DEMARCO JOSEPH	New York Telephone
1965	BOEHM VALENTINE	New York Telephone Company

525 YZNAGA PL

Year	Uses	Source
1983	MURRAY I	New York Telephone

526 YZNAGA PL

Year	Uses	Source
1993	ARNTSEN JOHN R	New York Telephone
1983	ARNTSEN JOHN R	New York Telephone
1976	ARNTSEN JOHN R	New York Telephone Company

Year	Uses	Source
1971	ARNTSEN JOHN R	New York Telephone
1965	ARSTSEN JOHN R	New York Telephone Company

527 YZNAGA PL

Year	Uses	Source
1976	JONES JOHN W	New York Telephone Company
1971	PESCE NELLIE MRS	New York Telephone
1965	PESCE FRANK A	New York Telephone Company

534 YZNAGA PL

Year	Uses	Source
1983	FIORE A	New York Telephone
1976	FIORE A	New York Telephone Company
1971	FIORE A	New York Telephone
1965	FIORE A	New York Telephone Company

536 YZNAGA PL

Year	Uses	Source
1983	FIORE DOMINICK	New York Telephone
1976	FIORE DOMINICK	New York Telephone Company
1971	FIORE DAMINICK	New York Telephone
1965	FIORE DOMINICK	New York Telephone Company

641 YZNAGA PL

Year	Uses	Source
1983	REGINA JOHN	New York Telephone
1976	REGINA JOHN	New York Telephone Company
1971	REGINA JOHN	New York Telephone
1965	REGINA JOHN	New York Telephone Company

YZNAGA PL

520 YZNAGA PL

Year	Uses	Source
2020	CLIFFCO LI INC	EDR Digital Archive
	FERRY POINT INDUSTRIES	EDR Digital Archive

FINDINGS

Year	Uses	Source
2017	FERRY POINT INDUSTRIES	Cole Information
	CLIFFCO II INC	Cole Information
2014	FERRY POINT INDUSTRIES	Cole Information
	CLIFFCO II INCORPORATED	Cole Information
2010	CJB EQUIPMENT RENTAL CORP	Cole Information
	C F	Cole Information
1993	SHAW Elizabeth	New York Telephone
1992	SHAW, ELIZABETH	Cole Information
1940	Baxter Mary A	New York Telephone
	Mc Evily Gloria Mrs	New York Telephone

525 YZNAGA PL

Year	Uses	Source
2017	TIJUANA MURRAY	Cole Information
2014	TIJUANA MURRAY	Cole Information
2010	JEANNINE FERRANDI	Cole Information
2005	TERRY MURRAY	Cole Information
	H Murray I AA	Hill-Donnelly Information Services
2000	I MURRAY	Cole Information
	IDA MURRAY	Cole Information
1992	MURRAY, I	Cole Information
1940	Mulvihill Susan J	New York Telephone
1931	Mulvihill Chris H R	Manhattan and Bronx Directory Publishing Company Residential Directory

526 YZNAGA PL

Year	Uses	Source
2005	534 536 NCL	Hill-Donnelly Information Services
2000	JOHN R ARMTSEN	Cole Information
	JOHN ARNTSEN	Cole Information
1993	ARNTSEN John R	New York Telephone
1992	ARNTSEN, JOHN R	Cole Information
1931	Hoffman Raymond	Manhattan and Bronx Directory Publishing Company Residential Directory

FINDINGS

527 YZNAGA PL

Year	Uses	Source
2005	CLIFFORD FERRANDI	Cole Information
2000	C FERRANDI	Cole Information

530 YZNAGA PL

Year	Uses	Source
1940	Bader M	New York Telephone

534 YZNAGA PL

Year	Uses	Source
2005	NESTOR PINO	Cole Information
2000	A RORE	Cole Information
	ANGELO FIORE	Cole Information
1992	FIORE, A	Cole Information

536 YZNAGA PL

Year	Uses	Source
2005	FRANK SALAMONE	Cole Information
2000	CANNADY SORTS SVCS	Cole Information
	G B C REALTY CORP	Cole Information
	PHASE I ASSOC INC	Cole Information
	D FIORE	Cole Information
	DOMENICK FIORE	Cole Information
	DONNA FIORE	Cole Information
1992	FIORE, D	Cole Information
1940	Baxter Walter C	New York Telephone

570 YZNAGA PL

Year	Uses	Source
2000	EXPLO POWDER INC	Cole Information

641 YZNAGA PL

Year	Uses	Source
1992	REGINA, JOHN	Cole Information
1940	Meichner Wm	New York Telephone

Year	Uses	Source
1931	Meichner Wm	Manhattan and Bronx Directory Publishing Company Residential Directory

YZNAGA STREET PL

520 YZNAGA STREET PL

Year	Uses	Source
1961	BOEHM VALENTINE	New York Telephone

526 YZNAGA STREET PL

Year	Uses	Source
1961	SIMMONDS JOSEPHINE E MRS	New York Telephone

527 YZNAGA STREET PL

Year	Uses	Source
1961	PESCE FRANK A	New York Telephone

534 YZNAGA STREET PL

Year	Uses	Source
1961	FIORE A	New York Telephone

536 YZNAGA STREET PL

Year	Uses	Source
1961	FIORE DOMINICK	New York Telephone

641 YZNAGA STREET PL

Year	Uses	Source
1961	REGINA JOHN	New York Telephone

ZEREGA AVE

430 ZEREGA AVE

Year	Uses	Source
1976	NASSETTA JOS	New York Telephone Company
1971	NASSETTA JOS	New York Telephone
1965	NASSETTA JOS	New York Telephone Company

FINDINGS

432 ZEREGA AVE

Year	Uses	Source
1983	DEFIORE SAM	New York Telephone
1976	DEFIORE SAM	New York Telephone Company
1971	DEFIORE SAM	New York Telephone
	MASCIA MARY MRS	New York Telephone
	MURPHY JOS G	New York Telephone
1965	DEFIORE SAM	New York Telephone Company
	HARDEN HAZEL	New York Telephone Company
	MASCIAN TONY	New York Telephone Company

450 ZEREGA AVE

Year	Uses	Source
1976	COTT CORP	New York Telephone Company
	IDEAL DISTRIBTRS	New York Telephone Company
1971	COTT CORP	New York Telephone
	IDEAL DISTRIBTRS	New York Telephone
1965	COTT CORP	New York Telephone Company
	IDEAL DISTRIBTRS	New York Telephone Company

455 ZEREGA AVE

Year	Uses	Source
1983	HINES GEO	New York Telephone
1976	GERENA JOSE	New York Telephone Company
1971	GERENA JOSE	New York Telephone
	HINES GEO	New York Telephone
1965	HINES GEO	New York Telephone Company
	HOY CHAS A	New York Telephone Company

489 ZEREGA AVE

Year	Uses	Source
1965	REIMER HAROLD JR	New York Telephone Company

500 ZEREGA AVE

Year	Uses	Source
1971	DELBALSO CONST CORP	New York Telephone

FINDINGS

ZEREGA AVE

420 ZEREGA AVE

Year	Uses	Source
2017	HUDSON RSS SRVCS	Cole Information
2014	HUDSON RSS SRVCS	Cole Information
1993	MIGOYA CONSTR CORP	New York Telephone
1992	MIGOYA CONSTR CORP	Cole Information

426 ZEREGA AVE

Year	Uses	Source
2020	JO-LO BUS CO	EDR Digital Archive

427 ZEREGA AVE

Year	Uses	Source
2020	RAHEEM ROSS	EDR Digital Archive
	CIARRA BLASINI	EDR Digital Archive
	JEFFREY SCHWARTZ	EDR Digital Archive
2017	RAHEEM ROSS	Cole Information
	HERMAN GARMENT	Cole Information
	JOHNNY BLASINI	Cole Information
2014	OCCUPANT UNKNOWN	Cole Information
	MAILYN OCASIO-GOYTIA	Cole Information
	PRENTIS PRICHETT	Cole Information
	OLGA GOYTIA	Cole Information
	JOHNNY BLASINI	Cole Information
2010	OCCUPANT UNKNOWN	Cole Information
2005	OCCUPANT UNKNOWN	Cole Information
	HECTOR CAMARA	Cole Information
	ELLIOT LOCICERO	Cole Information
	EVARISTO HERNANDEZ	Cole Information
	JEFFREY SCHWARTZ	Cole Information

428 ZEREGA AVE

Year	Uses	Source
2005	LOGAN REALTY	Cole Information

FINDINGS

429 ZEREGA AVE

Year	Uses	Source
2020	CHASTITY HAMILTON	EDR Digital Archive
	JANI ELLIS	EDR Digital Archive
	MILTON SILVERA	EDR Digital Archive
	GEORGE LETT	EDR Digital Archive
	YVETTE ROSAS	EDR Digital Archive
	NICOLA HOUDHAN	EDR Digital Archive
2017	JORGE ELLIS	Cole Information
	YVETTE ROSAS	Cole Information
	CHASTITY CRUZ	Cole Information
	NICOLA HOUDHAN	Cole Information
	TAIF DAVIS	Cole Information
2014	MILTON SILVERA	Cole Information
	JORGE ELLIS	Cole Information
	YVETTE ROSAS	Cole Information
	TAIF DAVIS	Cole Information
	NICOLA HOUDHAN	Cole Information
2010	OCCUPANT UNKNOWN	Cole Information
	GEORGE LETT	Cole Information
	MILTON SILVERA	Cole Information
2005	OCCUPANT UNKNOWN	Cole Information
	RAYLYN OCASIO	Cole Information
	MILTON SILVERA	Cole Information
	TAIF DAVIS	Cole Information

430 ZEREGA AVE

Year	Uses	Source
2000	SONIA COGLITORE	Cole Information
1956	BUBEL WM	New York Telephone
1949	BRIDGE VIEW BOAT HAULAGE CO	New York Telephone
	WHITE CAPS BOATS CO	New York Telephone

FINDINGS

431 ZEREGA AVE

Year	Uses	Source
2020	CHARLES FALCOM	EDR Digital Archive
	JULIUS LEWIS	EDR Digital Archive
	ODETTE MCCARTNEY	EDR Digital Archive
	MILZA NIETO	EDR Digital Archive
	JAMES LOGAN	EDR Digital Archive
	CARLOS TORRENS	EDR Digital Archive
	MATTIE LIBURD	EDR Digital Archive
	DILIA TRAVIESO	EDR Digital Archive
2017	JULIUS LEWIS	Cole Information
	MATTIE LIBURD	Cole Information
	JONATAN MOTA	Cole Information
2014	L ODETTE	Cole Information
	BRITTANY MARTINEZ	Cole Information
	JOHNNY BLASINI	Cole Information
	MATTIE LIBURD	Cole Information
2010	L ODETTE	Cole Information
	JOHNNY BLASINI	Cole Information
	MATTIE LIBURD	Cole Information
2005	MILZA AULLA	Cole Information
1992	FRANQUI, LORRAINE C	Cole Information

432 ZEREGA AVE

Year	Uses	Source
2020	MANUEL DOMENECH	EDR Digital Archive
	BELKIS DOMENECH	EDR Digital Archive
	ADIRIAN BANNISTER	EDR Digital Archive
	RAFAEL MALDONADO	EDR Digital Archive
2017	ELSY VALESQUEZ	Cole Information
	BELKIS DOMENECH	Cole Information
2014	MANUEL DOMENECH	Cole Information
	ELSY VALESQUEZ	Cole Information
	D CORA	Cole Information

FINDINGS

Year	Uses	Source
2014	RAFAEL MALDONADO	Cole Information
2010	LOGAN BUS CO INC	Cole Information
	GRANDPAS & BOBBYS BUS CO	Cole Information
	GINA DIAZ	Cole Information
2005	CAROLE GALLINA	Cole Information
	PATRICIA LANGERT	Cole Information
	Gallina Carol A	Hill-Donnelly Information Services
2000	RAILROAD MAINTENANCE CORPORATION	Cole Information
	KLOSK MICHAEL J ATTORNEY	Cole Information
1995	RAILROAD MAINTENANCE CORP	Cole Information
	KLOSK, MICHAEL J, ATTY	Cole Information
	RAILROAD MAINTNCE CORP	Cole Information
	LAWRENCE CONTRACTORS LTD	Cole Information
1993	KLOSK MICHAEL J ATTY	New York Telephone
	LAWRENCE CONTRACTORS LTD	New York Telephone
	RAILROAD MAINTENANCE CORP	New York Telephone
	RAILROAD MAINTNCE CORP	New York Telephone
	TPK CONSTR	New York Telephone
	DE FIORE ROSE	New York Telephone
	DE FIORE Rose	New York Telephone
1992	RAILROAD MAINTENANCE CORP	Cole Information
	KLOSK, MICHAEL J, ATTY	Cole Information
	RAILROAD MAINTNCE CORP	Cole Information
	LAWRENCE CONTRACTORS LTD	Cole Information
	TPK CONSTR	Cole Information
	DE FIORE, ROSE	Cole Information
1983	LAWRENCE CONTRACTORS LTD	New York Telephone
	LAWRENCE CONTRACTORS LTD	New York Telephone
	RAILROAD MAINTENANCE CORP	New York Telephone
1976	LAWRENCE CONTRACTORS LTD	New York Telephone Company
	RAILR0D MAINTENANCE CORP	New York Telephone Company
1961	SEATON SIDNEY W	New York Telephone

FINDINGS

Year	Uses	Source
1956	AL S MARINE SALES & SVCE	New York Telephone
	BORNEMANN RITA MRS	New York Telephone

433 ZEREGA AVE

Year	Uses	Source
2020	NIJA LESLIE	EDR Digital Archive
	JESSIE SCOTT	EDR Digital Archive
	RUEBEN ORTIZ	EDR Digital Archive
	LINDA CASTANON	EDR Digital Archive
	PHILLIP GUBISH	EDR Digital Archive
	EYITEMI OGHOGHO	EDR Digital Archive
	TAHMID CHOUDHURY	EDR Digital Archive
	DEJON PILLMAN	EDR Digital Archive
	YESENIA SCALICE	EDR Digital Archive
	TEANETTE WEAVER	EDR Digital Archive
	CHANTAL CASTANON	EDR Digital Archive
	JESSICA LOPEZ	EDR Digital Archive
	LINDA MALDONADO	EDR Digital Archive
	FARHANA CHOUDHURY	EDR Digital Archive
	MICHAEL WEAVER	EDR Digital Archive
	YESENIA RODRIGUEZ	EDR Digital Archive
	STIRTON PATTERSON	EDR Digital Archive
2017	JESSIE SCOTT	Cole Information
	CARL CASTANON	Cole Information
	SEAN PATTERSON	Cole Information
	CLARIBEL REYNOSO	Cole Information
	EDDY MARTE	Cole Information
	JESSIE SCALICE	Cole Information
	FARHANA CHOUDHURY	Cole Information
2014	JOSEPHINE LANDESTOY	Cole Information
	RUEBEN ORTIZ	Cole Information
	CARL CASTANON	Cole Information
	CLARIBEL REYNOSO	Cole Information

FINDINGS

Year	Uses	Source
2014	ZAMAL AHMED	Cole Information
	ORLANDO RIVERA	Cole Information
	SOLANGE VELEZ	Cole Information
2010	CHANTAL CASTANON	Cole Information
	MOKBUL CHOUDHURY	Cole Information
	ANGELA VELEZ	Cole Information
2005	JOSEPHINE LANDESTOY	Cole Information
	IRBIA FONSECA	Cole Information
	GRACIALINA VELEZ	Cole Information
	JACK SCALICE	Cole Information

435 ZEREGA AVE

Year	Uses	Source
2020	JEFFREY SCHWARTZ	EDR Digital Archive
2017	ISABEL HERNANDEZ	Cole Information
	FREDY GUERRERO	Cole Information
2014	OCCUPANT UNKNOWN	Cole Information
	JENNIFER MATOS	Cole Information
	ISABEL HERNANDEZ	Cole Information
	FREDY GUERRERO	Cole Information
2010	OCCUPANT UNKNOWN	Cole Information
	AVROM GOLD	Cole Information
	ORIN HENDRICKS	Cole Information
	ISABEL HERNANDEZ	Cole Information
	EMMANUELA GIALLEGO	Cole Information
2005	MICHAEL LIBURD	Cole Information
	ORIN HENDRICKS	Cole Information
	ISABEL HERNANDEZ	Cole Information
	JEFFREY SCHWARTZ	Cole Information
	Liburd Mattle v	Hill-Donnelly Information Services
	Ortiz Carmen v	Hill-Donnelly Information Services

FINDINGS

437 ZEREGA AVE

Year	Uses	Source
2020	AMANDA SAXON	EDR Digital Archive
	JOHN DERAFFELE	EDR Digital Archive
	JENNIFER GUZMAN	EDR Digital Archive
	YOLANDA SASTRE	EDR Digital Archive
2017	ISRAEL GUZMAN	Cole Information
	WILFREDO TORRES	Cole Information
	DANIELLE KUVERUA	Cole Information
	CHAYENNE THOMPSON	Cole Information
2014	MARIBEL GONELL	Cole Information
	CRUZ MILLAN	Cole Information
2010	FRANCISCO MACIAS	Cole Information
	R BOWMAN	Cole Information
	NGURIMUJE UANINI	Cole Information
	AMANDA SAXON	Cole Information
	JOHN DERAFFELE	Cole Information
2005	R BOWMAN	Cole Information
	NGERIMO MIEZE	Cole Information
	Bow man R v V	Hill-Donnelly Information Services

439 ZEREGA AVE

Year	Uses	Source
2020	JOHN DERAFFELE	EDR Digital Archive
	AMBA FRALIN	EDR Digital Archive
	MELANIE MALERO	EDR Digital Archive
	CHERYL VANNOY	EDR Digital Archive
2017	ANDREW LEBRON	Cole Information
	JOHN DERAFFELE	Cole Information
	DORIS WHITE	Cole Information
	PETER CONSTANTINO	Cole Information
	CECILLE WALLACE	Cole Information
	ZUALMY DISLA	Cole Information
	NICOLE WHITE	Cole Information

FINDINGS

Year	Uses	Source
2014	ANDREW LEBRON	Cole Information
	JOHN DERAFFELE	Cole Information
	A BLOUNT	Cole Information
	AVROM GOLD	Cole Information
	JACK WHITE	Cole Information
	PETER CONSTANTINO	Cole Information
	TARA HOWARD	Cole Information
	CECILLE WALLACE	Cole Information
2010	LINDA CLINKSSCALES	Cole Information
	JACK WHITE	Cole Information
	PETER CONSTANTINO	Cole Information
2005	LINDA CLINKSSCALES	Cole Information
	JACK WHITE	Cole Information
	Blount Eveyin v	Hill-Donnelly Information Services
	Cllnkscales Linda Av	Hill-Donnelly Information Services
	White Jack A	Hill-Donnelly Information Services

450 ZEREGA AVE

Year	Uses	Source
2020	ATM	EDR Digital Archive
	GVC LI	EDR Digital Archive
	GBC	EDR Digital Archive
	GVC LTD	EDR Digital Archive
	GVC	EDR Digital Archive
	MICHAEL LAVALLIE	EDR Digital Archive
	NIKITA LAVALLIE	EDR Digital Archive
	GERRI LAVALLIE	EDR Digital Archive
2017	GVC LTD	Cole Information
	G V C	Cole Information
	GVC II	Cole Information
2014	G V C	Cole Information
	GVC II	Cole Information
2010	GBC LTD	Cole Information

FINDINGS

Year	Uses	Source
2010	GVC II	Cole Information
2005	GBC	Hill-Donnelly Information Services
	GBC LTD	Hill-Donnelly Information Services
	Lavalle Micheal	Hill-Donnelly Information Services
	GVC	Cole Information
	Q T MINIBUS OF THE BRONX	Cole Information
2000	QT MINI BUS OF THE BRONX	Cole Information
	GVC	Cole Information
1995	CRYSTAL CHEMICAL CORP	Cole Information
1993	BASF CORP	New York Telephone
1992	BASF CORP	Cole Information
1983	LIMBACHR PAINT & COLOR WORKS INC	New York Telephone

455 ZEREGA AVE

Year	Uses	Source
2005	NCL	Hill-Donnelly Information Services
	Tract 36005:102 N/A	Hill-Donnelly Information Services
2000	JORGE CRUZ	Cole Information
1993	CRUZ WENDELL	New York Telephone
	CRUZ Wendell	New York Telephone
1992	CRUZ, WENDELL	Cole Information
1956	CONTE LOUIS	New York Telephone
	FRANCO CARMELO	New York Telephone

487 ZEREGA AVE

Year	Uses	Source
2010	HOUSES ZEREGA	Cole Information
2005	HOUSES ZEREGA	Cole Information

489 ZEREGA AVE

Year	Uses	Source
1956	CONVERTINO MICHL	New York Telephone
	PERROTTI PAT	New York Telephone
1940	Lynch J	New York Telephone

FINDINGS

492 ZEREGA AVE

Year	Uses	Source
1940	Reimer Harold	New York Telephone

493 ZEREGA AVE

Year	Uses	Source
1956	SACKS CELIA MRS GROCRY	New York Telephone

500 ZEREGA AVE

Year	Uses	Source
2005	VERIZON	Cole Information
1961	DEL BALSO CONST CORP	New York Telephone
	DELPHI CONST CO INC	New York Telephone
1956	DEL BALSO CONST CORP	New York Telephone
	DELPHI CONST CO INC	New York Telephone
1949	DEL BALSA CONST CORP	New York Telephone
1940	Del Balso Asphalt Corp	New York Telephone
	Del Balso Constr Corp	New York Telephone

501 ZEREGA AVE

Year	Uses	Source
2014	KEL MAR DESIGNS INCORPORATED	Cole Information
	KE MAR DESIGNS INCORPORATED	Cole Information

507 ZEREGA AVE

Year	Uses	Source
1956	FAUST JOS L	New York Telephone

530 ZEREGA AVE

Year	Uses	Source
2017	GVC I	Cole Information
	GVC	Cole Information
2014	GVC I	Cole Information
	GVC	Cole Information
2010	GVC	Cole Information
	GVC LTD	Cole Information

535 ZEREGA AVE

Year	Uses	Source
2020	NY ROAD RUNNERS CLUB	EDR Digital Archive

537 ZEREGA AVE

Year	Uses	Source
2010	JASON LAGUNA	Cole Information
2005	JASON LAGUNA	Cole Information

570 ZEREGA AVE

Year	Uses	Source
2017	EXPLO POWDER INC	Cole Information
2014	EXPLO POWDER INCORPORATED	Cole Information
2005	EXPLO POWDER INC	Cole Information
2000	EXPLO POWDER INCORPORATED	Cole Information
1995	EXPLO POWDER INC	Cole Information
1992	EXPLO INC	Cole Information
	VINOCON INC	Cole Information

493A ZEREGA AVE

Year	Uses	Source
1983	CO-OP SECURITY L	New York Telephone

ZEREGA AVE # 3

431 ZEREGA AVE # 3

Year	Uses	Source
2020	JOHNNY BLASINI	EDR Digital Archive

435 ZEREGA AVE # 3

Year	Uses	Source
2020	MICHAEL LIBURD	EDR Digital Archive

ZEREGA AVE # A

433 ZEREGA AVE # A

Year	Uses	Source
2020	MOKBUL CHOUDHURY	EDR Digital Archive

FINDINGS

435 ZEREGA AVE # A

Year	Uses	Source
2020	ISABEL HERNANDEZ	EDR Digital Archive

ZEREGA AVE # B

429 ZEREGA AVE # B

Year	Uses	Source
2020	KEICY RODRIGUEZ	EDR Digital Archive

ZEREGA AVE # C

429 ZEREGA AVE # C

Year	Uses	Source
2020	CHASTITY CRUZ	EDR Digital Archive

435 ZEREGA AVE # C

Year	Uses	Source
2020	JOHANNA INFANTE	EDR Digital Archive

437 ZEREGA AVE # C

Year	Uses	Source
2020	CHAYENNE THOMPSON	EDR Digital Archive
	TIFFANY THOMPSON	EDR Digital Archive

ZERESA AVE

500 ZERESA AVE

Year	Uses	Source
1965	DEL BALSO CONST CORP	New York Telephone Company

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
0 LACOMBE AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
1 Schley Ave	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
196 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
200 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
201 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
202 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
202 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
202 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
202 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
202 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
202 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
230 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
230 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
230 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
230 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
230 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
230 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2303 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
232 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2325 LACOMBE AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
236 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
236 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
236 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
236 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
236 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
236 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
236 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2375 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
238 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
239 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
240 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
240 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
240 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
240 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
240 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
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244 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
245 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
245 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
245 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
245 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
245 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
245 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
245 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
245 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
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246 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2471 JAY PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
2471 JAY PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931
2478 JAY PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931
2478 JAY PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
248 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
248 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
248 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
248 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
248 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
248 HOSMER AVE # 2	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2483 JAY PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
2483 JAY PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931
250 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
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250 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
251 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
251 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
251 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
251 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
251 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
251 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
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252 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
253 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
253 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
253 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
253 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
253 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
253 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
254 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
254 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
254 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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254 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
255 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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255 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
255 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
255 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
256 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
256 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
256 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
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256 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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257 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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257 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
257 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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2576 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2576 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2577 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
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2578 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2578 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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2579 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2579 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2579 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
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258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 HOSMER AVE # A	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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2580 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
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2580 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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2580 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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2580 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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2581 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2581 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2581 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2581 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2581 HARDING AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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2582 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2582 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2582 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2582 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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2583 HARDING AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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2583 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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2584 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2584 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2584 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2584 HARDING AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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FINDINGS

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FINDINGS

Address Researched	Address Not Identified in Research Source
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259 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
259 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
259 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
259 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
259 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
259 HOSMER AVE # A	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
259 HOSMER AVE # B	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2590 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2590 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2590 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2590 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2590 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
260 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
260 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
260 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
260 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
260 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2600 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2600 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2600 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2600 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2600 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2602 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2602 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2602 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2602 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2602 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2604 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2604 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2604 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2604 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2604 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2604 SCHLEY AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2604 SCHLY AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
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2606 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2606 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2606 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2606 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2608 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2608 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2608 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2608 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
261 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
261 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
261 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
261 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
261 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
261 HOSMER AVE # B	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2610 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2610 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2610 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2610 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2610 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2610 MILES AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
2612 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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2612 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2612 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2612 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2614 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2614 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2614 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2614 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2614 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2616 SCHLEY AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
262 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
262 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
262 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
262 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
262 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
263 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
263 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
263 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
263 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
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264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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266 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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266 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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266 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
267 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
267 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
267 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
267 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
267 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
267 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
268 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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268 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
268 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
268 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
268 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
268 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
268 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
268 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
268 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
269 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
269 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
269 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
269 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
269 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
269 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
269 HOSMER AVE # A	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
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270 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
271 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
271 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
271 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
271 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
271 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
271 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
272 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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272 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
272 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
272 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
272 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
272 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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272 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
272 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
276 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMAR AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
278 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
295 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
295 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
3 Schley Ave	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
400 HUTCHINSON RIVER PKWY	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
420 HUTCHINSON RIVER PKWY	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
420 HUTCHINSON RIVER PKWY	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
420 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
420 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
420 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
420 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
426 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
427 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
427 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
427 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
427 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
427 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
428 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
429 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
429 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
429 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
429 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
429 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
429 ZEREGA AVE # B	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
429 ZEREGA AVE # C	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
430 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
430 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
430 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
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430 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1940, 1931, 1927
430 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
431 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
431 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
431 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
431 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
431 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
431 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
431 ZEREGA AVE # 3	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
433 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
433 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
433 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
433 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
433 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
433 ZEREGA AVE # A	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE # 3	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE # A	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE # C	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
437 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
437 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
437 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
437 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
437 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
437 ZEREGA AVE # C	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
439 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
439 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
439 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
439 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
439 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
455 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
455 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
455 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
455 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
455 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1949, 1940, 1931, 1927
455 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
455 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
455 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
455 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
460 HUTCHINSON RIVER PKWY	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
487 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
487 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
489 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
489 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1949, 1940, 1931, 1927
489 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
492 Hutchinson River Pkwy	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
492 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
493 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1949, 1940, 1931, 1927
493A ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 BRUSH AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
500 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 BRUSH AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 Hutchinson River Parkway	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 HUTCHINSON RIVER PKWY	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 HUTCHINSON RIVER PKWY	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 HUTCHINSON RIVER PKY	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 HUTCHINSON RIVER PKY	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1949, 1940, 1931, 1927
500 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
500 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1940, 1931, 1927
500 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
500 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 ZERESA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
501 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
501 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
504 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
504 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
504 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
507 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1949, 1940, 1931, 1927
509 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
509 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
509 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
509 BRUSH AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
509 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
509 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
509 BRUSH AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
509 BRUSH AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
509 BRUSH AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
510 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
510 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
510 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
510 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
515 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
515 BRUSH AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
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515 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
517 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA STREET PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
525 Hutchinson River Pkwy	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
525 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
525 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
525 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
525 YZNAGA PL	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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525 YZNAGA PL	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
525 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
525 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
526 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
526 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
526 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
526 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
526 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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526 YZNAGA PL	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
526 YZNAGA STREET PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
527 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
527 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
527 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
527 YZNAGA PL	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
527 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
527 YZNAGA STREET PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927

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528 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931
529 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
529 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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529 BRUSH AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
530 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
530 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
530 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
530 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
530 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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531 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
531 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931
531 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
534 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
534 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
534 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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534 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
534 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
534 YZNAGA PL	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
534 YZNAGA STREET PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
535 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
535 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA STREET PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
537 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
537 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
545 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
545 BRUSH AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
545 Brush Ave	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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550 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 Brush Ave	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE FRNT 1	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE FRNT 2	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
552 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
553 HUTCHINSON RIVER PKWY	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
553 HUTCHINSON RIVER PKWY	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
553 HUTCHINSON RIVER PKY	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKWY	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKWY	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKWY	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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555 HUTCHINSON RIVER PKWY	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKWY	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKY	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKY	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKY	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKY	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKY	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
570 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
570 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
570 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
570 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
570 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
570 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
570 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
620 HUTCHNSNRIVER PKY	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
630 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931
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641 YZNAGA STREET PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
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682 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
682 BRUSH AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
682 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
682 BRUSH AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
682 BRUSH AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
699 Brush Ave	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
699 BRUSH AVE	2020, 2017, 2014, 2010, 1995, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
700 HUTCHINSON RIVER PKWY	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
700 HUTCHINSON RIVER PKWY	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
450 Hutchinson River Parkway	2020, 2017, 2014, 2010, 2005, 1995, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

Proposed Ballys Casino - Ring Road

450 Hutchinson River Parkway

Bronx, NY 10465

Inquiry Number: 7720624.11

July 30, 2024

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

07/30/24

Site Name:

Proposed Ballys Casino - Ring
450 Hutchinson River Parkway
Bronx, NY 10465
EDR Inquiry # 7720624.11

Client Name:

Langan Engineering, Inc.
360 W. 31st Street
New York, NY 10001
Contact: Kaitlyn Gioia

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
2019	1"=500'	Flight Year: 2019	USDA/NAIP
2015	1"=500'	Flight Year: 2015	USDA/NAIP
2011	1"=500'	Flight Year: 2011	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1994	1"=500'	Acquisition Date: April 08, 1994	USGS/DOQQ
1985	1"=500'	Flight Date: March 16, 1985	USDA
1980	1"=500'	Flight Date: July 25, 1980	NOAA
1974	1"=500'	Flight Date: September 15, 1974	NOAA
1966	1"=500'	Flight Date: February 23, 1966	USGS
1962	1"=500'	Flight Date: January 16, 1962	EDR Proprietary Aerial Viewpoint
1954	1"=500'	Flight Date: January 08, 1954	USGS
1951	1"=500'	Flight Date: April 20, 1951	EDR Proprietary Aerial Viewpoint
1924	1"=500'	Flight Date: July 01, 1924	FAIR

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INQUIRY #: 7720624.11

YEAR: 2019

= 500'

N

EDR

INQUIRY #: 7720624.11
YEAR: 2015
= 500'
N
EDR

INQUIRY #: 7720624.11
YEAR: 2011
= 500'
N
EDR

INQUIRY #: 7720624.11
YEAR: 2006
= 500'
N
EDR

INQUIRY #: 7720624.11

YEAR: 1994

= 500'

N

EDR

INQUIRY #: 7720624.11
YEAR: 1985
= 500'
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EDR

INQUIRY #: 7720624.11
YEAR: 1980
= 500'
N
EDR

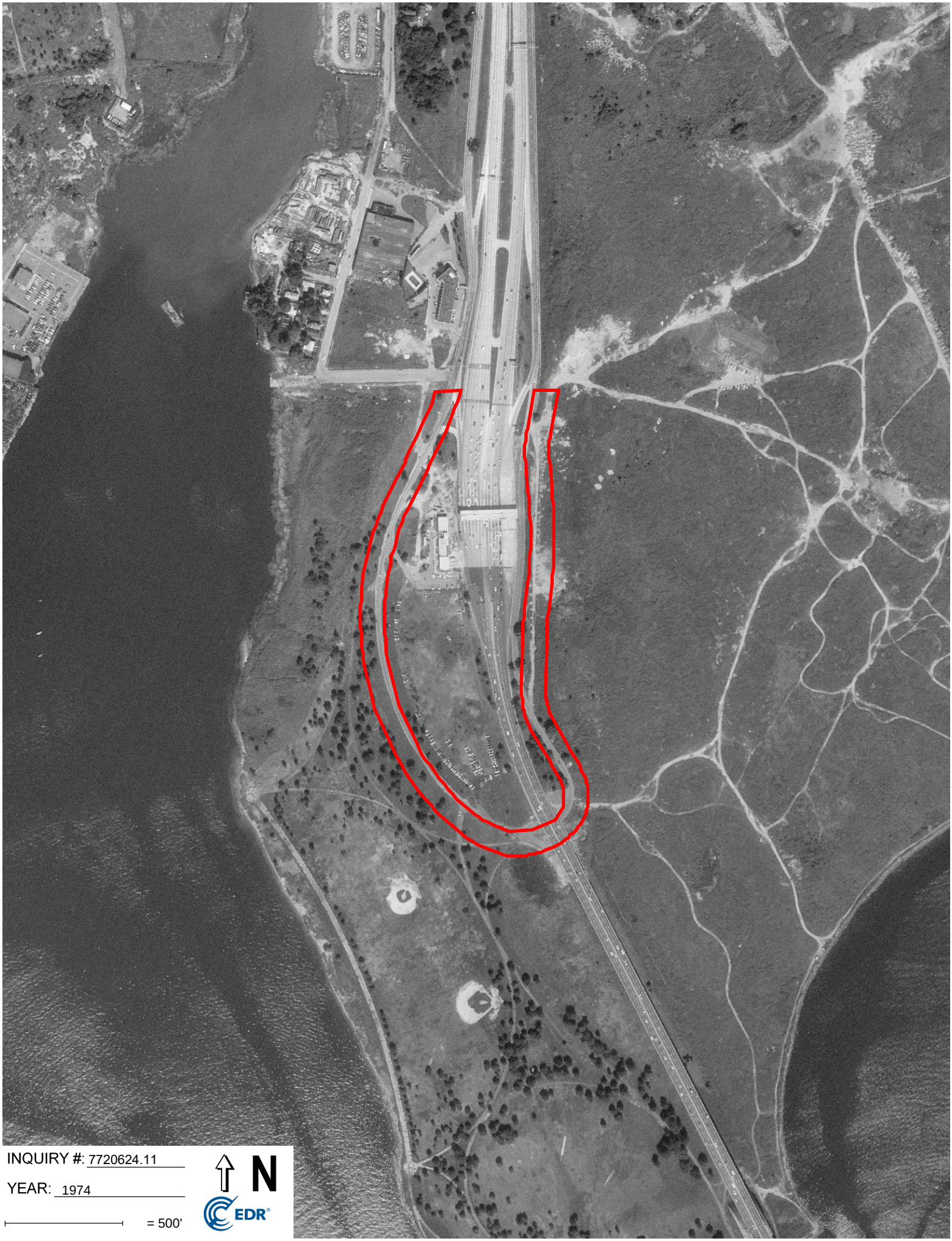

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EDR

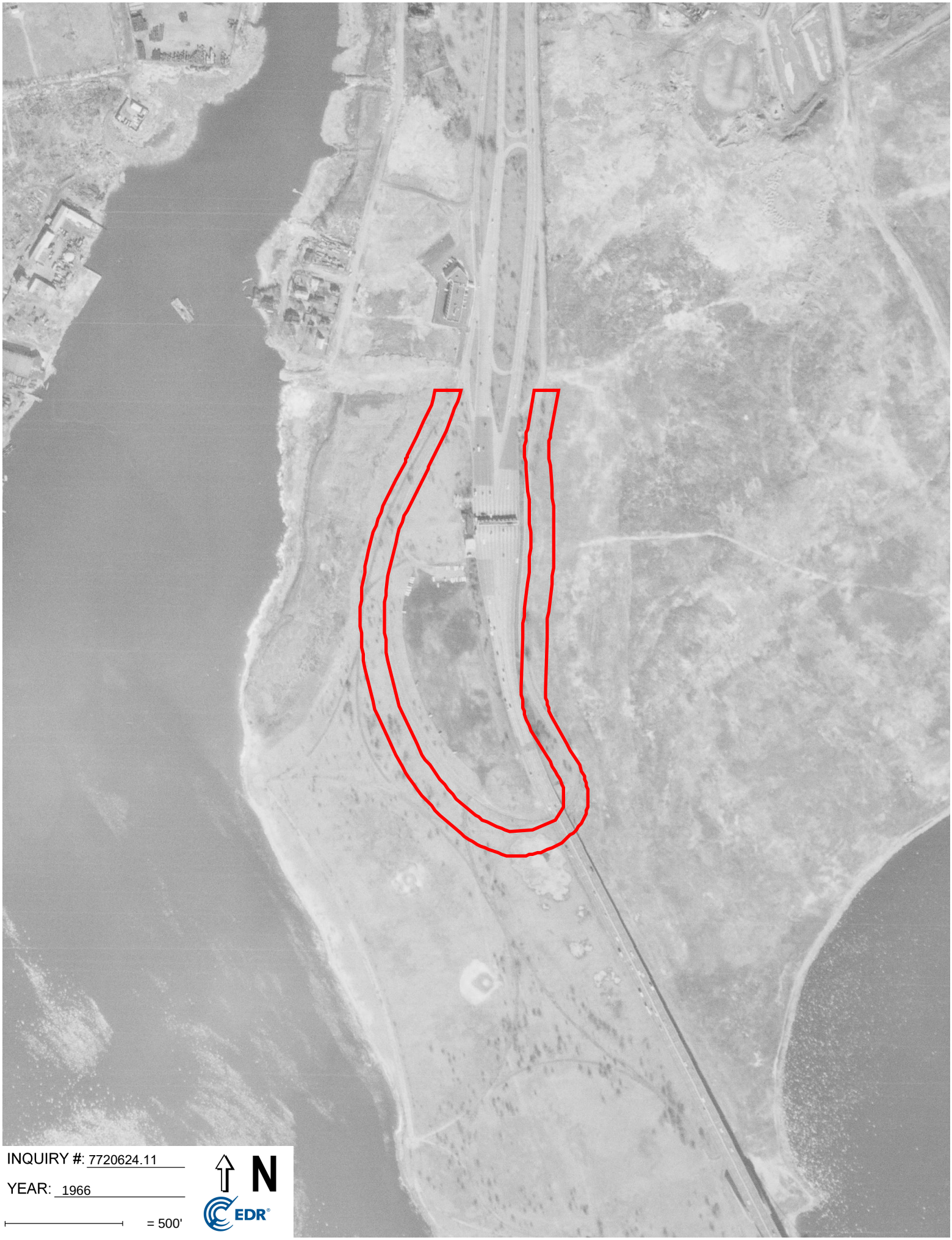
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EDR

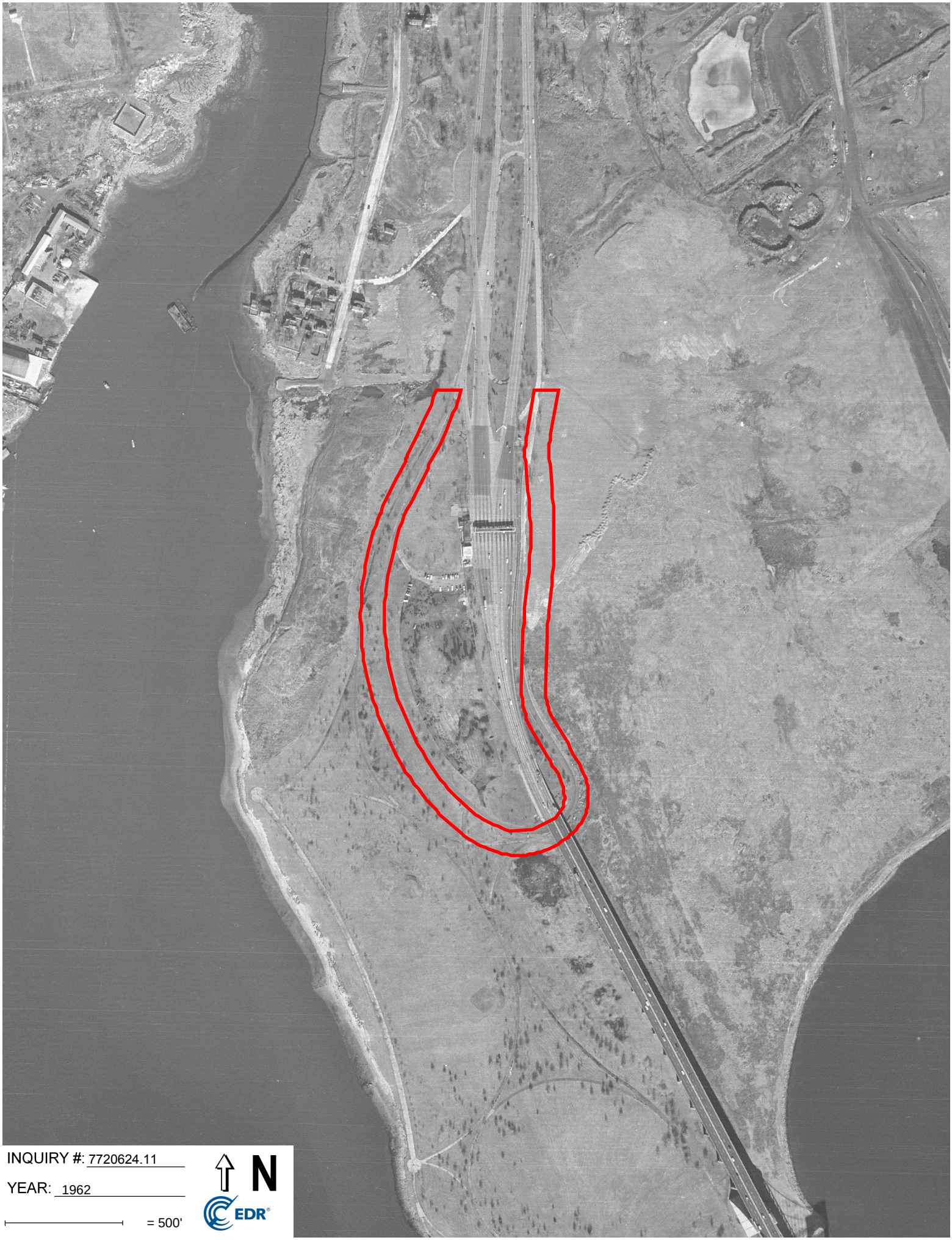

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EDR

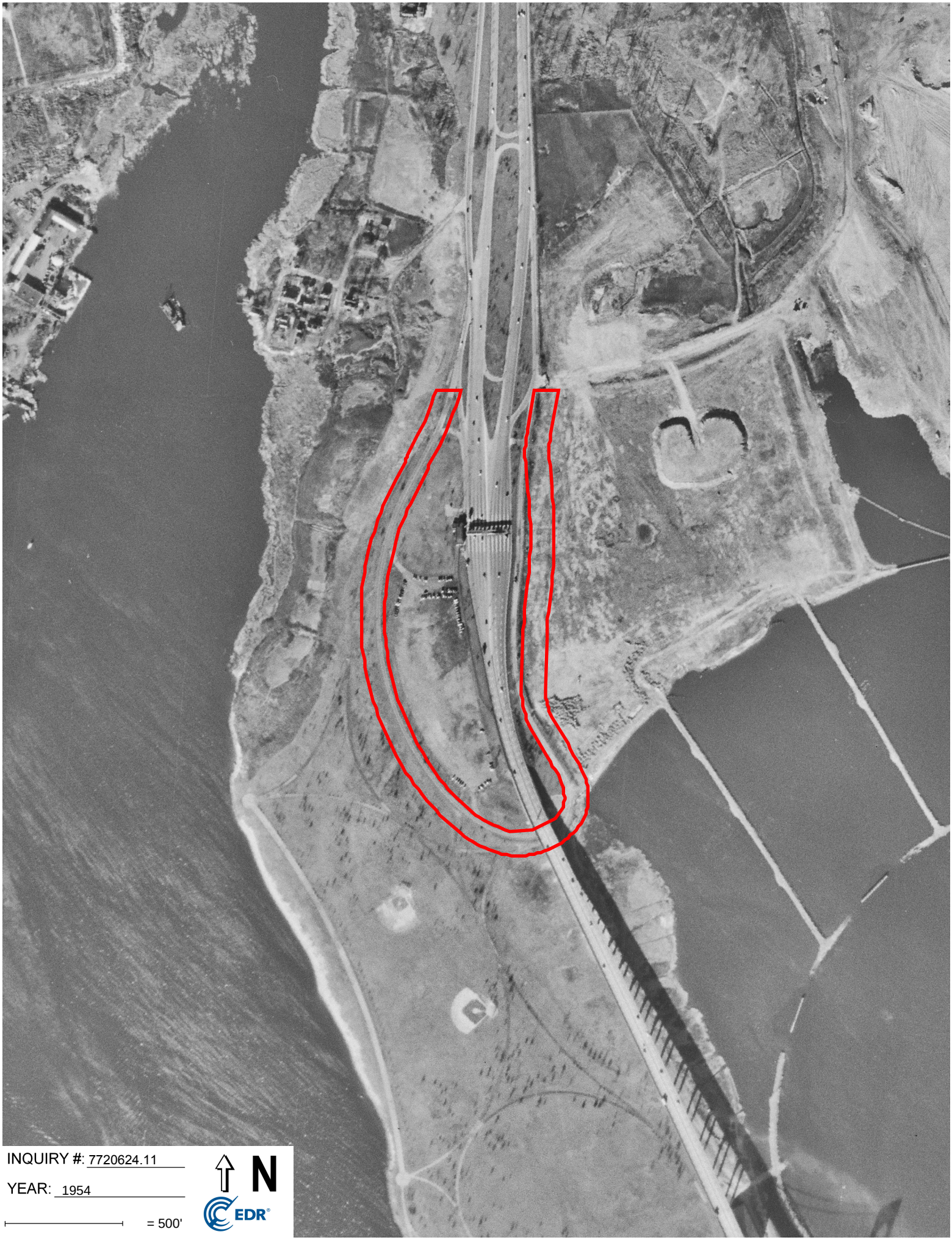
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N
EDR

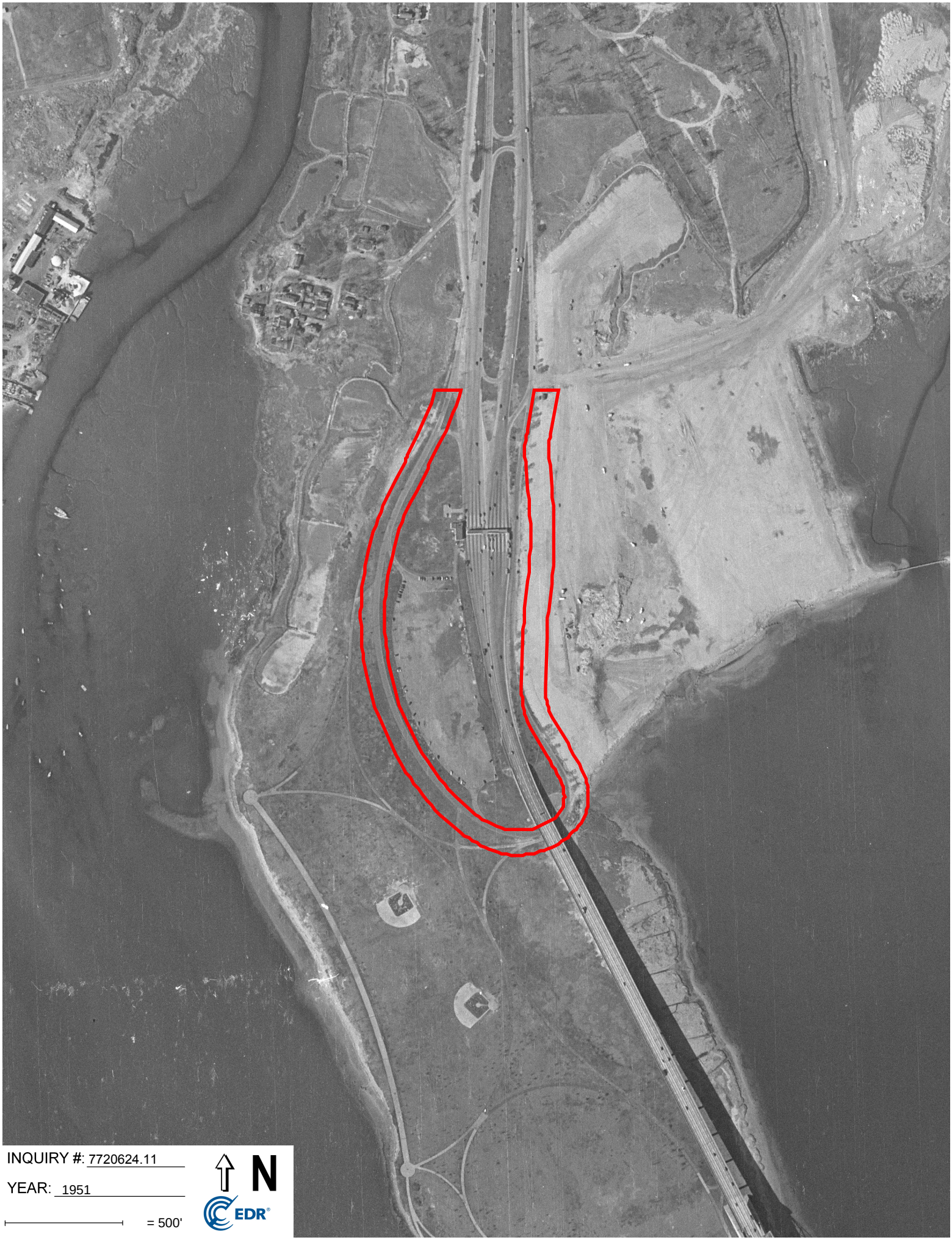
INQUIRY #: 7720624.11
YEAR: 1951
= 500'
N
EDR

INQUIRY #: 7720624.11

YEAR: 1924

= 500'

N

EDR

Appendix G Resumes of Environmental Professionals

BRIAN GOCHENAUR, QEP

ASSOCIATE PRINCIPAL

ENVIRONMENTAL SCIENTIST

Mr. Gochenaur is an environmental project manager with 20 years of experience in environmental due diligence, site investigation and remediation, fuel oil storage tank investigation and removal, soil vapor intrusion assessments, in-situ remedial technology, spill closure, vapor barrier and sub-slab depressurization system design and construction, emergency response, environmental and geotechnical site investigations, and health and safety monitoring. He has extensive experience with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup, Voluntary Cleanup and Spill Programs and New York City Department of Environmental Protection (NYCDEP) "E" Designated and New York City Voluntary Cleanup Program (BCP) sites. His areas of expertise include Phase I Environmental Site Assessments, Phase II Site Investigations, and environmental consulting and oversight on large scale construction projects.

SELECTED PROJECTS

- 440 Washington Street, E-Designated services, New York, NY
- 3514 Surf Avenue, Tall Residential and Retail Building, Brooklyn, NY
- ARO 242 West 53, Tall Residential Building, New York, NY
- NY Aquarium Shark Exhibit, Soil Characterization and Excavation Oversight, Coney Island Neighborhood, Brooklyn, NY
- 60 West Street, Site Investigation and Redevelopment, Brooklyn, NY
- 535 4th Avenue, BCP Auto Repair Cleanup and Redevelopment, Brooklyn, NY
- 1525 Bedford Avenue, BCP Gas Station Cleanup and Redevelopment, Brooklyn, NY
- 220 Eleventh Avenue, Residential Building, New York, NY
- 432 Rodney Street, Residential Building, Brooklyn, NY
- 563 Sackett Street, Brooklyn, NY
- 362 West 125th Street, Residential Building, New York, NY
- Bedford Armory Redevelopment, Brooklyn, NY
- 268 West Street, BCP Redevelopment of Former Commercial and Industrial Site, New York, NY
- 110 125th Street, Soil Excavation and Remediation, New York, NY
- Former Roseland Ballroom Redevelopment, Soil Characterization and Excavation Oversight, New York, NY
- 42 Crosby Street, "E" Designated Site Investigation and Remediation, New York, NY
- New York School Construction Authority, Various Locations, In-House Environmental Consulting, Five Boroughs of New York City
- EZ Serve Portfolio, GE Capital, Various Phase II Site Investigations, FL, GA, LA, and MS
- Beth Elohim Child Daycare Center, Lead Based Paint Abatement, Brooklyn, NY
- Price Battery, Environmental Protection Agency (EPA) Lead Fallout Superfund Site, Hamburg, PA

EDUCATION

B.S., Environmental Science
University of Florida

PROFESSIONAL REGISTRATION

Qualified Environmental Professional (QEP) certified by the Institute of Professional Environmental Practice

40-Hour OSHA (HAZWOPER)

- Clark Portfolio, GE Capital, Various Phase II Locations, MI, IL, ID, and OH
- Tops Plaza Portfolio, Prudential Real Estate Investors, Various Phase II Locations, NY
- Cingular Wireless Portfolio, Cingular Wireless, Various Locations Phase I and II Locations, WA
- Queens Center Mall Expansion, Remedial Oversight, Elmhurst, NY
- Soka Gakkai International-USA, Cultural Center, Brooklyn, NY
- 1752 Shore Parkway, Environmental Remediation, Brooklyn, NY
- Bedford Union Armory, NYS Brownfield Cleanup Program, Brooklyn, NY
- NYCEDC Manhattan Greenway – Harlem River, New York, NY
- 445 Gerard Avenue, Residential Building, Bronx, NY
- Towne Gardens North, Residential Building, Buffalo, NY

LAMEES ESMAIL, EIT

PROJECT ENGINEER

ENVIRONMENTAL ENGINEERING

Ms. Esmail is a civil and environmental engineer with four years of experience supporting environmental oversight and remediation projects in New York City. She has performed environmental field work including preparing daily inspection reports, photo documentation of work, and reviewing contractor submittals. She currently performs site research, manages field oversight, reviews/approves contractor submittals, prepares reports, and is involved with remedial design, implementation and project management.

Prior to joining Langan, Ms. Esmail gained three years of experience supporting environmental permitting and erosion and sedimentation control primarily for linear overhead transmission line projects. Types of permits included state land disturbance approvals and Army Corps of Engineers Section 10 Pre-Construction Notifications. Ms. Esmail also has experience aiding with the siting of new substation properties, using ArcGIS and AutoCAD to compile data for potential sites.

EDUCATION

B.S., Civil Engineering (Environmental Concentration)
George Washington University

PROFESSIONAL REGISTRATION

Engineer in Training (EIT) in NC

SELECTED PROJECTS

- Con Edison Partial Replacement of 345KV Feeders M51 & M52 Feasibility Study, New York, NY
- 220 Eleventh Avenue, Hudson Arts Building, New York, NY
- 50 Hudson Yards, Supertall Office Building, New York, NY
- 215 North 10th Street, Brooklyn, NY
- 320 West 135th Street, New York, NY
- 163 Varick Street, New York, NY
- 39 West 23rd Street, New York, NY
- 1 Huron Street, Brooklyn, NY
- Bedford Armory, Brooklyn, NY
- 1607 Surf Avenue, Brooklyn, NY
- 414 Gerard Avenue, Bronx, NY
- 445 Gerard Avenue, Bronx, NY
- 326-350 Rockaway Avenue, Brooklyn, NY
- 197-201 Canal Street, Staten Island, NY
- 475 Bay Street, Staten Island, NY
- Astoria Steel, Queens, NY
- 99 Hudson Boulevard, New York, NY
- 4650 Broadway, New York, NY
- 12-57 57th Street, Brooklyn, NY
- 805-825 Atlantic Avenue, Brooklyn, NY
- Various Phase I Environmental Site Assessments (ESAs) in NYC

SELECTED PUBLICATIONS, REPORTS, AND PRESENTATIONS

Esmail, L., “Transmission Line Erosion Control and Construction Specifications”, Duke Energy Progress Transmission Erosion and Sedimentation Control Seminar, Raleigh, NC, November 2016.

KAITLYN GIOIA

SENIOR STAFF SCIENTIST

ENVIRONMENTAL ENGINEERING

Ms. Gioia is an Environmental Scientist with the New York City team. Ms. Gioia graduated in 2016 from Adelphi University with a B.A. in Environmental Studies. Ms. Gioia's experiences include project management, leading field work, exposure to an assortment of environmental pollutants, remedial action procedures, & Phase I and Phase II Environmental Assessments. Ms. Gioia has performed Asbestos Hazard and Emergency Response Act (AHERA) inspections and evaluations in schools and State Pollutant Discharge Elimination System (SPDES) sampling for power plants and commercial facilities.

SELECTED PROJECTS

- 80-100 Flatbush Avenue, Brooklyn, NY
- 250 Water Street, New York, NY
- 35-01 & 35-09 Northern Boulevard, Long Island City, NY
- 23-15 44th Road, Long Island City, NY
- South Randalls Due Diligence, New York, NY
- 595-647 Smith Street, Brooklyn, NY
- Willets Point Redevelopment, Flushing, NY
- President Street Properties, Brooklyn, NY
- 475 Bay Street, Staten Island, NY
- Confidential Project, Queens, NY
- 137 Kings Highway, Brooklyn, NY
- 111 Willow Avenue, Bronx, NY
- 560 Degraw Street, Brooklyn, NY
- 122 Fifth Avenue, New York, NY
- Insurance Claim Oversight, White Plains, NY*
- Subrogation Potential Investigation, Lindenhurst, NY*
- Brookhaven National Lab, Brookhaven, NY*
- Far Rockaway Vault Sampling, Far Rockaway, NY*
- East Islip School District AHERA Inspection, East Islip, NY*
- UPRS SPDES Sampling, Uniondale, NY*
- 550 Stewart Avenue Phase I and II, Garden City, NY*
- Riverhead to Canal Cable Expansion, Riverhead, NY*
- Noise Dosimetry Study, Queens, NY*
- School District Lead in Water Sampling, Yonkers, Kings Park, and Baldwin, NY*
- Potable Water Sampling, New York, NY*
- DCF Remediation Oversight, Malverne, West Hempstead, and Port Washington, NY*
- AOP Pilot Testing, Garden City Park, Franklin Square, and Port Washington, NY*

EDUCATION

B.A., Environmental Studies
Adelphi University

PROFESSIONAL REGISTRATION

OSHA 40-Hour

OSHA10-Hour

NYS Department of Labor, Asbestos Inspector License

USEPA Lead Based Paint Inspector License

NYSDEC Class A/B Operator of Underground Storage Tank Systems

NYSDEC 4-Hour Erosion and Sediment Control Contractor Training 2021

**Projects represent experience with a previous firm*

SELECTED PUBLICATIONS, REPORTS, AND PRESENTATIONS

"Fecundity and Embryonic Development of Spiny Dogfish in the Northwest Atlantic Ocean" Transactions of the American Fisheries Society 2019.

Dutton J., Fisher NS., Gioia KA., Madigan DJ., "Tissue Distribution of Mercury in Female Spiny Dogfish (Squalus Acanthias)" Society of Environmental Toxicology and Chemistry South-Central Regional Meeting 2016, Fort Worth, TX.

Dutton J., Fisher NS., Gioia KA., Madigan DJ., "Maternal Transfer of Mercury in Spiny Dogfish" 12th International Congress on The Biology of Fish 2016, San Marcos, TX.

Dutton J., Fisher NS., Gioia KA., Madigan DJ., "Mercury Bioaccumulation and Maternal Transfer in Spiny Dogfish (Squalus Acanthias)" 33rd Annual Meeting of The American Elasmobranch Society/Joint Meeting of Ichthyologists and Herpetologists 2017, Austin, TX.

Appendix C Health and Safety Plan

HEALTH AND SAFETY PLAN

FOR

PROPOSED BALLY'S CASINO - RING ROAD at FERRY POINT PARK Bronx, New York 10465

Prepared for:

Bally's Corporation
100 Westminster Street
Providence, Rhode Island 02903

Prepared by:

Langan Engineering, Environmental, Surveying
Landscape Architecture and Geology
368 Ninth Avenue, 8th Floor
New York, New York 10001

LANGAN

October 2024
Langan Project No. 170773001

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***** Items to be posted prominently on-site or made readily available to personnel.

1.0 INTRODUCTION

1.1 General

This HEALTH AND SAFETY PLAN (HASP) was developed to address disturbance of known and reasonably anticipated subsurface contaminants and comply with Occupational Safety and Health Administration (OSHA) Standard 29 Code of Federal Regulation (CFR) 1910.120(b)(4), Hazardous Waste Operations and Emergency Response during anticipated site work for the property for the property consisting of an approximately 19-acre portion of Ferry Point Park (FPP) that is part of Bronx Block 5622, Lot 1 (the "Site").

This HASP provides the minimum requirements for implementing site operations during future remedial measures. All contractors performing work on this site must implement their own HASP that, at a minimum, adheres to this HASP. The contractor is responsible for their own health and safety and that of their subcontractors. Langan personnel will implement this HASP while onsite.

The content of this HASP may change or undergo revision based upon additional information made available to health and safety personnel, monitoring results, or changes in the work plan.

1.2 Site Location and Background

The site is an approximately 9.85-acre, U-shaped section of Ferry Point Park, that primarily serves as a park thoroughfare and public recreation space and is identified on the New York City Bronx Borough Tax Map as part of Block 5622, Lot 1. The site is improved with an uninterrupted, circular roadway, referred to as Ring Road. Ring Road is a one-lane, one-way, asphalt-paved roadway and is bordered on either side by concrete curbing, metal guardrails, and grass shoulders. The remainder of the site includes vegetated areas and footpaths associated with Ferry Point Park. The section of Ring Road comprising the site totals about 1 mile.

The site is bound by Schley Avenue, the Hutchinson River Parkway, and service roads to the north; Bally's Golf Links at Ferry Point golf course to the east; Ferry Point Park and the Bronx-Whitestone Bridge to the south; and Ferry Point Park to the west. Between the western and eastern legs of the U-shape formed by the site lies public parking areas for Ferry Point Park and the Bronx-Whitestone Bridge Metropolitan Transit Authority (MTA) Building. A site location map is provided as Figure 1.

1.3 Summary of Work Tasks

1.3.1 Geophysical Investigation - Underground Utility Clearance Policy

Prior to the commencement of intrusive field activities (i.e., soil borings);Langan will follow the Langan Underground Utility Clearance Policy including retaining a geophysical consultant to conduct a geophysical survey using ground penetrating radar (GPR) and electromagnetic detection equipment. The objective of the survey will be to identify any underground storage tank (UST) structures, drains, underground utilities, and other subsurface anomalies that may be encountered during the investigation. During this time Langan personnel will inspect the site and confirm investigation locations are both accessible and free of potential utility or other known or suspected subsurface structures.

1.3.2 "Soft-Dig" Clearance of Borehole Locations

If there is no geophysical survey for utility clearance or the results of the geophysical survey are inconclusive at specific locations subject to intrusive work, or otherwise in compliance with Langan's Underground Utility Clearance Policy, the drilling contractor may "soft-dig" each proposed drilling location or a separate contractor may be retained to "soft-dig" the locations to confirm they are free of utilities or other known or suspected subsurface structures. The dimensions of each location should extend to a depth of 5-feet and be about 1.5 times the anticipated diameter of the borehole when drilled. Langan personnel will confirm that the "soft dig" activities are completed to these specifications.

1.3.3 Day Lighting Excavation and Soil Screening

Langan may retain an excavation contractor to daylight buried unidentified structures. The purpose of the daylighting is to confirm if these structures are subsurface structures of concern (USTs, utilities sewer lines, storm water drains, electrical, gas or other utility line as well as other artifacts pertinent to the work plan). The excavation contractor will contact the appropriate utility mark-out authority and make available to their staff the verification number and effective dates.

The excavation contractor will employ "soft dig" methods in accordance with the Langan Underground Utility Clearance Policy when excavating. Langan may screen excavated soil for visual, olfactory, and instrumental indicators suggestive of a potential chemical or petroleum release. Instrument screening for the presence of volatile organic compounds (VOC) may be performed with a duly calibrated photoionization detector (PID). Contractors will notify Langan personnel if they identify indications suggestive of a potential chemical or petroleum release. Contaminated material shall be handled, and property disposed in accordance with federal, state and city regulations, criteria, and guidelines.

1.3.4 Soil Investigation and Sampling

Langan will retain a drilling contractor to advance soil borings to a depth below grade surface (bgs) specified in the work plan. Borings will be installed at the approximate locations indicated in Langan's work plan but may be moved in the field based on utility clearance and accessibility. The drilling contractor will contact the appropriate utility mark-out authority and make available to their drilling staff the verification number and effective dates. Langan will record the verification number and effective dates from the drillers. Langan will also note the location of marked out utilities on the site plan and scan the data into the project folder.

Langan personnel will screen soil for visual, olfactory, and instrumental indicators suggestive of a potential petroleum release. Instrument screening for the presence of VOC may be performed with a duly field calibrated PID (or equivalent). Langan personnel will collect soil samples from the proposed soil boring locations following the sampling plan outlined in the work plan. The borings will be filled with clean soil cuttings, clean sand or bentonite grout and capped at grade to match the surrounding surface after samples are collected.

Soil samples will be submitted to a specific lab per the work plan or to a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory and analyzed in accordance with work plan specifications.

1.3.5 Groundwater Investigation and Sampling

Selected soil borings will be converted into groundwater monitoring wells and sampled to evaluate groundwater quality. Groundwater samples will be collected from one or more of the new and if available, pre-existing monitoring wells in accordance with the Langan Low Flow Groundwater Sampling SOP (SOP #12). Groundwater samples will be submitted to an approved laboratory and analyzed for constituents as specified in the work plan. Temporary monitoring wells will be plugged and abandoned during the investigation in the manner defined in Section 1.3.2 for soil boring. Permanent monitoring wells will be completed with a road box set in concrete. Permanent monitoring wells will be eventually backfilled and abandoned in accordance with State and Local regulations.

Groundwater samples will be submitted to a NYSDOH ELAP-certified laboratory and analyzed in accordance with work plan specifications.

1.3.6 Groundwater/Product Gauging

Langan may gauge one or more of the observation/monitoring wells to collect synoptic head data or determine the presence of product. When gauging, Langan may also survey head

space VOCs within the well using a duly calibrated PID. When collected, gauging data will be based on the northernmost point at top of casing (TOC) using an interface probe (IP) capable of determining the presence of free product in the monitoring well as light non-aqueous phase liquid (LNAPL) at the top of the water column. If gauging for dense non-aqueous phase liquid (DNAPL) at the base of the monitoring well, the IP may not be appropriate. The field engineer will coordinate with the project team to devise an alternative method to gauge the thickness of DNAPL at base of the well. Langan will decontaminate gauging equipment between wells as required by the work plan.

1.3.7 Product Bailing

Langan may remove free product from on-site monitoring wells as part of this HASP or subsequent SMP activities. Langan will may use a bailer, peristaltic pump or submersible as determined by the work plan. Langan will record the volume of product and groundwater recovered. Recovered product and groundwater will be drummed in accordance with procedures outlined in the work plan.

1.3.8 QA/QC Sampling

Samples for quality assurance/quality control [QA/QC] may also be collected and submitted to an approved laboratory and analyzed in accordance with work plan specifications. Information regarding the QA/QC samples including required method of analysis may be included in the same COC as the soil samples unless otherwise instructed by the work plan.

1.3.9 Equipment Decontamination

Before the start of the day's sampling and after sampling each run, sampling equipment will be decontaminated by the decontamination process outlined Attachment B - Decontamination Procedures. Decontamination wastes and purge water will be temporarily stored on site pending analytical results.

1.3.10 Management of Investigative-Derived Waste

The investigative-derived waste (IDW) generated during this investigation will be contained in DOT-approved 55-gallon drums. The drums will be temporarily stored on the site or as directed by the client representative. All drums will be filled between to two-thirds full to allow easy maneuvering during drum pickup and disposal. Drum labels are to be provided by Langan (Environmental Closet). All drums will be labeled as "IDW Pending Analysis" until sample data are reported from the laboratory. Drum labels will include date filled and locations where waste was generated along with the standard information required by the labels in accordance with the

Langan SOP09, Drum Labeling.

Closed top drums are to be used to store liquids. Debris, including plastic sheeting, polyethylene tubing, personal protection equipment (PPE), decontamination debris, etc. will be segregated from and disposed in large heavy duty garbage bags and disposed of at the site. Excess unused glassware should be returned to the lab along with the last day of collection samples.

1.3.11 Drum Sampling

Langan personnel may collect drum samples, as required, prior to off-site drum disposal. Samples will be placed into laboratory-supplied batch-certified clean glassware and submitted to an approved laboratory and analyzed in accordance with work plan specifications, if required.

1.3.12 Surveying

Surveying activities may be completed by Langan. Surveying will be conducted by licensed surveyors.

2.0 IDENTIFICATION OF KEY PERSONNEL/HEALTH AND SAFETY PERSONNEL

The following briefly describes the health and safety (H&S) designations and general responsibilities that may be employed for this site. The titles have been established to accommodate the project needs and requirements and ensure the safe conduct of site activities. The H&S personnel requirements for a given work location are based on the proposed site activities.

2.1 Langan Project Manager

The Langan Environmental Project Manager (PM) is Brian Gochenaur, his responsibilities include:

- Ensuring that this HASP is developed, current, and approved prior to on-site activities.
- Ensuring that the tasks in the project are performed in a manner consistent with Langan's comprehensive *Health and Safety Program for Hazardous Waste Operations* and this HASP.

2.2 Langan Corporate Health and Safety Manager

The Langan Corporate Health and Safety Manager is Tony Moffa. His responsibilities include:

- Updating the *Construction Health and Safety Program for Hazardous Waste Operations*.

- Assisting the site Health and Safety Officer (HSO) with the development of the HASP, updating HASP as dictated by changing conditions, job site inspection results, etc., and approving changes to this HASP.
- Assisting the HSO in the implementation of this HASP and conducting Jobsite Safety Inspections and assisting with communication of results and correction of shortcomings found.
- Maintaining records on personnel (medical evaluation results, training and certifications, accident investigation results, etc.).

2.3 Langan Site Health & Safety Officer

The Langan site HSO is William Bohrer. His responsibilities include:

- Participating in the development and implementation of this HASP.
- When on-site, assisting the Langan Field Team Leader in conducting Tailgate Safety Meetings and Jobsite Safety Inspections and correcting any shortcomings in a timely manner.
- Ensuring that proper PPE is available, worn by employees, and properly stored and maintained.
- Controlling entry into and exit from the site contaminated areas or zones.
- Monitoring employees for signs of stress, such as heat stress, fatigue, and cold exposure.
- Monitoring site hazards and conditions.
- Knowing (and ensuring that all site personnel also know) emergency procedures, evacuation routes, and the telephone numbers of the ambulance, local hospital, poison control center, fire department, and police department.
- Resolving conflicts that may arise concerning safety requirements and working conditions.
- Reporting all incidents, injuries, and near misses to the Langan Incident/Injury Hotline immediately and the client representative.

2.4 Langan Field Team Leader Responsibilities

The Langan Field Team Leader (FTL) is to be determined prior to the start of field activities. The Field Team Leader's responsibilities include:

- The management of the day-to-day site activities and implementation of this HASP in the field.
- Participating in and/or conducting Tailgate Safety Meetings and Jobsite Safety Inspections and correcting any shortcomings in a timely manner.
- When a Community Air Monitoring Operating Program (CAMP) is part of the scope, the

FTL will set up and maintain community air monitoring activities and instruct the responsible contractor to implement organic vapor or dust mitigation when necessary.
- Overseeing the implementation of activities specified in the IRMWP.

2.5 Contractor Responsibilities

The contractor must develop and implement their own HASP for their employees, their subcontractors, and consultants. The contractor is responsible for their own health and safety and that of their subcontractors. Contractors operating on the site must designate their own FTL, HSO, and Health and Safety Manager (HSM). The contractor's HASP will be at least as stringent as this HASP. The contractor must be familiar with and abide by the requirements outlined in their own HASP. A contractor may elect to adopt Langan's HASP as its own provided that it has given written notification to Langan, but where Langan's HASP excludes provisions pertinent to the contractor's work (i.e., confined space entry); the contractor must provide written addendums to this HASP. Additionally, the contractor must:

- Ensure their employees are trained in the use of all appropriate PPE for the tasks involved.
- Notify Langan of any hazardous material brought onto the job site or site-related area, the hazards associated with the material, and must provide a material safety data sheet (MSDS) or safety data sheet (SDS) for the material.
- Have knowledge of, understand, and abide by all current federal, state, and local health and safety regulations pertaining to the work.
- Ensure their employees handling hazardous materials, if identified at the Site, have received current training in the appropriate levels of 29 CFR 1910.120, *Hazardous Waste Operations and Emergency Response* (HAZWOPER) if hazardous waste is identified at the Site.
- Ensure their employees handling hazardous materials, if identified at the Site, have been fit-tested within the year on the type of respirator they will wear; and
- Ensure all air monitoring is in place pertaining to the health and safety of their employees as required by OSHA 1910.120; and
- All contractors must adhere to all federal, state, and local regulatory requirements.

3.0 TASK/OPERATION SAFETY AND HEALTH RISK ANALYSES

A Task-Hazard Analysis (Table 1) was completed for general construction hazards that may be encountered at the Site. The potential contaminants that might be encountered during the field activities and the exposure limits are listed in Table 2 complete inventory of MSDS/SDS for chemical products used on site is included in Attachment E.

3.1 Specific Task Safety Analysis

3.1.1 Geophysical Survey

Langan personnel are not permitted to operate or otherwise handle the geophysical equipment including any downhole geophysical equipment subsequently used to survey boreholes. When boring locations are surveyed with surface geophysical equipment, the locations of the borings as well as utilities and other artifacts that may interfere with the subsurface investigation are to be marked with indelible paint, flags, or color tape (when marking indoor locations that the client has specifically requested not be marked with indelible paint). This information must also be added to the site map. When applying paint, proper PPE including at a minimum hand protection should be used.

3.1.2 "Soft Dig" Clearance of Borehole Locations

"Soft-Dig" clearance will be completed by the contractor. Langan personnel are not permitted to operate or otherwise handle the contractor's equipment. Langan will update the site map to include the locations of the cleared borehole locations as well as utilities and other artifacts that may interfere with the subsurface investigation.

3.1.3 Daylighting Test Pit

Excavation daylighting must abide by OSHA excavation standards (Part 1926.651) and conform to the Langan Underground Utility Clearance Policy. Daily inspections of excavations, the adjacent areas, and protective systems shall be made by a competent person for evidence of a situation that could result in cave-ins, indications of failure of protective systems, hazardous atmospheres, or other hazardous conditions. An inspection shall be conducted by the competent person prior to the start of work and as needed throughout the shift. Inspections shall also be made after every rainstorm or other hazard increasing occurrence. Sampling the soil requires the donning of chemical resistant gloves in addition to the standard PPE. Langan personnel are not to operate excavation equipment. This task is to be completed by the excavation contractor.

3.1.4 Indoor Drilling and Excavation

The work scope may require indoor excavation where there may not be adequate ventilation sufficient to safely operate any rig or excavation equipment powered by an internal combustion engine. Where possible, all such work should be done by equipment powered by electricity. If such equipment is used and must be directly wired to the buildings electrical system or to an independent system, this work must be completed by a licensed electrician in accordance with all electrical codes applicable to the work.

Indoor work which is to be completed with equipment powered by an internal combustion engine must incorporate air monitoring of carbon monoxide (CO) using calibrated air monitoring equipment (MultiRAE or equivalent). In addition, the work plan should incorporate mitigation for venting engine exhaust fumes directly to the outdoors and for circulating fresh air into the work area.

The OSHA Time Weighted Average (TWA) Permissible Exposure Limit (PEL) for CO from 50 to 35 parts per million (ppm). Langan will monitor CO with a suitable monitoring device. If CO levels exceed 5 ppm, Langan will instruct contractors to begin mitigation measures. These measures are at a minimum:

- Increase air circulation using industrial size fans to bring additional fresh air into the building or vent exhaust to the outside.
- Modify the passive exhaust method being used to increase venting circulation by using wider diameter tubing or sealing tubing connections; or
- Modify the work schedule where the rig is turned off to allow time for CO levels to fall back to background.

All work must cease if CO levels reach 35 ppm. The Langan engineer is to report to the PM and H&S officer when an action level is reached.

3.1.5 Soil Investigation and Sampling

Sampling the soil requires the donning of chemical resistant gloves in addition to the standard PPE. Langan personnel are not to operate drilling or excavation equipment nor open sampling devices (acetate liners, sonic sample bags, etc.). These tasks are to be completed by the driller or excavation contractor.

3.1.6 Groundwater Investigation and Sampling

Sampling groundwater requires the donning of chemical resistant gloves in addition to the standard PPE and cut resistant gloves when cutting sampling-tubing to length. Langan personnel are not to operate drilling equipment nor assemble or install monitoring well equipment. These tasks are to be completed by the driller contractor.

1.3.7 Groundwater/Product Gauging

Gauging product requires additional safety considerations including the presence of VOCs and protection of both field cloths and property. Langan will monitor air for VOCs using a duly calibrated PID. Langan will don protective clothing including Tyvek® over-cloths, as necessary. To protect property, Langan will work set a plastic barrier to protect floors or protect

landscaping and use absorbent pads as necessary to collect pooled product. If sampling for PFAS from the same well, Langan will complete the product check first, if the well can be sampled without including product, Langan will remove the Tyvek® material from the well head vicinity.

3.1.8 Product Recovery Well Bailing

Langan may bail free product from monitoring wells. Free product bailing requires the donning of Tyvek™ suits, Tyvek™ boots and chemical resistant gloves in addition to the standard PPE and cut resistant gloves when cutting sampling-tubing to length. In addition, Langan will place plastic sheeting around the recovery well head to control spillage during product recovery. Langan will also keep on hand and readily available product absorbing pads to use as needed.

3.1.9 Electrical Pumps

Langan may use an electric pump to collect product from the recovery wells or to sample groundwater. Langan will inspect the electric pump and control box prior to use and specifically note the condition of the electrical connectors, pump, control box and the electrical cord. The electrical connection must be a grounded and connect to the power source using a functional three prong grounded plug. The power source must be a Ground Fault Circuit Interrupter (GFI or GFCI) receptacle.

3.1.10 Drum Sampling

Drilling fluid, rinse water, grossly contaminated soil samples, and cuttings will be containerized in 55-gallon drums for disposal off-site. Each drum must be labeled in accordance with the Langan Drum Labeling Standard Operating Procedure (SOP09). Sampling drums requires the donning of work gloves when opening the drums and chemical resistant gloves when sampling in addition to standard PPE.

Langan personnel and contractors are not to move or open any orphaned (unlabeled) drum found on the site without approval of the project manager.

3.2 Radiation Hazards

No radiation hazards are known or expected at the site.

3.3 Physical Hazards

Physical hazards, which may be encountered during site operations for this project, are detailed in Table 1.

3.3.1 Explosion

No explosion hazards are expected for the scope of work at this site.

3.3.2 Heat Stress

The use of Level C protective equipment, or greater, may create heat stress. Monitoring of personnel wearing personal protective clothing should commence when the ambient temperature is 72°F or above. Table 6 presents the suggested frequency for such monitoring. Monitoring frequency should increase as ambient temperature increases or as slow recovery rates are observed. Refer to Table 7 to assist in assessing when the risk for heat-related illness is likely. To use this table, the ambient temperature and relative humidity must be obtained (a regional weather report should suffice). Heat stress monitoring should be performed by the HSO or the FTL, who must be able to recognize symptoms related to heat stress.

To monitor the workers, be familiar with the following heat-related disorders and their symptoms:

- **Heat Cramps:** Painful spasms of arm, leg, or abdominal muscles, during or after work
- **Heat Exhaustion:** Headache, nausea, dizziness; cool, clammy, moist skin; heavy sweating; weak, fast pulse; shallow respiration, normal temperature.
- **Heat Stroke**: Headache, nausea, weakness, hot dry skin, fever, rapid strong pulse, rapid deep respirations, loss of consciousness, convulsions, coma. *This is a life-threatening condition***.**

Do not permit a worker to wear a semi-permeable or impermeable garment when they are showing signs or symptoms of heat-related illness.

To monitor the worker, measure:

- **Heart rate:** Count the radial pulse during a 30-second period as early as possible in the rest period. If the heart rate exceeds 100 beats per minute at the beginning of the rest period, shorten the next work cycle by one-third and keep the rest period the same. If the heart rate still exceeds 100 beats per minute at the next rest period, shorten the following work cycle by one-third. A worker cannot return to work after a rest period until their heart rate is below 100 beats per minute.
- **Oral temperature:** Use a clinical thermometer (3 minutes under the tongue) or a similar device to measure the oral temperature at the end of the work period (before drinking). If oral temperature exceeds 99.6^{o}F (37.6^{o}C), shorten the next work cycle by one-third without changing the rest period. A worker cannot return to work after a rest period until their oral temperature is below 99.6^{o}F. If oral temperature still exceeds 99.6^{o}F (37.6^{o}C) at the beginning of the next rest period, shorten the following cycle by one-third. Do not

permit a worker to wear a semi-permeable or impermeable garment when oral temperature exceeds 100.6^{o}F (38.1^{o}C).

Prevention of Heat Stress - Proper training and preventative measures will aid in averting loss of worker productivity and serious illness. Heat stress prevention is particularly important because once a person suffers from heat stroke or heat exhaustion, that person may be predisposed to additional heat-related illnesses. To avoid heat-stress the following steps should be taken:

- Adjust work schedules.
- Mandate work slowdowns as needed.
- Perform work during cooler hours of the day if possible or at night if adequate lighting can be provided.
- Provide shelter (air-conditioned, if possible) or shaded areas to protect personnel during rest periods.
- Maintain worker's body fluids at normal levels. This is necessary to ensure that the cardiovascular system functions adequately. Daily fluid intake must equal the amount of water lost in sweat, i.e., eight fluid ounces (0.23 liters) of water must be ingested for every eight ounces (0.23 kilograms [kg]) of weight lost. The normal thirst mechanism is not sensitive enough to ensure that enough water will be drunk to replace lost sweat. When heavy sweating occurs, encourage the worker to drink more. The following strategies may be useful:
    - Maintain water temperature 50° to 60°F (10° to 16.6^{o}C).
    - Provide small disposal cups that hold about four ounces (0.1 liters).
    - Have workers drink 16 ounces (0.5 liters) of fluid (preferably water or dilute drinks) before beginning work.
    - Urge workers to drink a cup or two every 15 to 20 minutes, or at each monitoring break. A total of 1 to 1.6 gallons (4 to 6 liters) of fluid per day are recommended, but more may be necessary to maintain body weight.
    - Train workers to recognize the symptoms of heat-related illness.

3.3.3 Cold-Related Illness

If work on this project begins in the winter months, thermal injury due to cold exposure can become a problem for field personnel. Systemic cold exposure is referred to as hypothermia. Local cold exposure is called frostbite.

- **Hypothermia -** Hypothermia is defined as a decrease in the patient core temperature below 96°F. The body temperature is normally maintained by a combination of central (brain and spinal cord) and peripheral (skin and muscle) activity. Interference with any of these mechanisms can result in hypothermia, even in the absence of what normally is

considered a "cold" ambient temperature. Symptoms of hypothermia include shivering, apathy, listlessness, sleepiness, and unconsciousness.

- **Frostbite -** Frostbite is both a general and medical term given to areas of local cold injury. Unlike systemic hypothermia, frostbite rarely occurs unless the ambient temperatures are less than freezing and usually less than 20°F. Symptoms of frostbite are a sudden blanching or whitening of the skin; the skin has a waxy or white appearance and is firm to the touch; tissues are cold, pale, and solid.

Prevention of Cold-Related Illness - To prevent cold-related illness:

- Educate workers to recognize the symptoms of frostbite and hypothermia.
- Identify and limit known risk factors:
- Assure the availability of an enclosed, heated environment on or adjacent to the site.
- Assure the availability of dry changes of clothing.
- Assure the availability of warm drinks.
- Start (oral) temperature recording at the job site:
- At the FSO or Field Team Leader's discretion when suspicion is based on changes in a worker's performance or mental status.
- At a worker's request.
- As a screening measure, two times per shift, under unusually hazardous conditions (e.g., wind-chill less than 20°F, or wind-chill less than 30°F with precipitation).
- As a screening measure whenever anyone worker on the site develops hypothermia.

Any person developing moderate hypothermia (a core temperature of 92°F) cannot return to work for 48 hours.

3.3.4 Noise

Work during the proposed activities may be conducted at locations with high noise levels from the operation of equipment. Hearing protection will be used, as necessary.

3.3.5 Hand and Power Tools

The use of hand and power tools can present a variety of hazards, including physical harm from being struck by flying objects, being cut, or struck by the tool, fire, and electrocution. All hand and power tools should be inspected for health and safety hazards prior to use. If deemed unserviceable/un-operable, notify the supervisor and tag equipment out of service. Ground Fault Circuit Interrupters (GFCIs) are required for all power tools requiring direct electrical service.

3.3.6 Slips, Trips, and Fall Hazards

Care should be exercised when walking at the site, especially when carrying equipment. The presence of surface debris, uneven surfaces, pits, facility equipment, and soil piles contribute to tripping hazards and fall hazards. To the extent possible, all hazards should be identified and marked on the site, with hazards communicated to all workers in the area.

3.3.7 Utilities (Electrocution and Fire Hazards)

3.3.7.1 Utility Clearance

The possibility of encountering underground utilities poses fire, explosion, and electrocution hazards. All excavation work will be preceded by a review of available utility drawings and by notification of the subsurface work to N.Y. One –Call--Center.

3.3.7.2 Lockout-Tagout

The potential adverse effects of electrical hazards include burns, arc flashes, and electrocution, which could result in serious injury including death. Therefore, there is a procedure that establishes the requirements for the lockout/tag out (LOTO) of energy isolating devices in accordance with the OSHA electrical lockout and tagging requirements as specified in 29CFR1910.147 and 29 CFR 1926.417. This procedure will be used to ensure that all machines and equipment are isolated from potentially hazardous energy. If possible, equipment that could cause injury due to unexpected energizing, start-up, or release of stored energy will be locked/tagged, before field personnel perform work activities.

The facility owner/operator/representative is to be the authorized person that will initiate and perform the LOTO in accordance with applicable rules and practices. Inerting of electrical power sources is to be completed by an authorized and licensed electrician. Langan personnel will follow LOTO protocols and practices including adding a separate lock/signature to the LOTO chain in accordance with said protocols and practices.

SPECIAL NOTE: Project personnel will assume that all electrical equipment at the surface, subsurface, and overhead locations are energized until equipment has been designated and confirmed as de-energized by a utility company representative. Langan will notify the designated utility representative prior to working adjacent to this equipment and will verify that the equipment is energized or de-energized in the vicinity of the work location. No project work shall be performed by Langan personnel or subcontractors near energized electrical lines or equipment.

The FTL shall accompany the designated facility owner/operator/representative or authorized/licensed electrician in surveying to locate and identify all energy-isolating devices. Langan will note which switches, valves or other isolating devices are used for inerting the

equipment and how they are set assuring LOTO. The lockout/tagout procedure involves, but is not limited to, electricity, motors, steam, natural gas, compressed air, hydraulic systems, digesters, sewers, etc.

3.3.8 Adequate Lighting

Indoor or night activities must be done under adequate lighting conditions. The Langan field engineer must be able to clearly see the equipment, all controls and have sufficient lighting to detail color labels. Battery operated lights are sufficient provided they cast a wide enough field to provide the required lighting and there are back-up batteries and emergency flashlights available. Electrically powered lights are suitable provided the electrical source is equipped with a ground fault interrupt circuit (GFIC) and the extensions cords are visually inspected and not used if they show cracked or missing insulation. If a generator is supplying the electricity, it must be outdoors and properly vented.

3.3.9 Physical Hazard Considerations for Material Handling

There are moderate to severe risks associated with moving heavy objects at the Site. The following physical hazards should be considered when handling materials at the Site:

- Heavy objects will be lifted and moved by mechanical devices rather than manual effort whenever possible.
- The mechanical devices will be appropriate for the lifting of moving tasks and will be operated only by trained and authorized personnel.
- Objects that require special handling or rigging will only be moved under the guidance of a person who has been specifically trained to move such objects.
- Lifting devices will be inspected, certified, and labeled to confirm their weight capacities. Defective equipment will be taken out of service immediately and repaired or destroyed.
- The wheels of any trucks being loaded or unloaded will be choked to prevent movement. Outriggers will be fully extended on a flat, firm surface during operation.
- Personnel will not pass under a raised load, nor will a suspended load be left unattended.
- Personnel will not be carried on lifting equipment unless it is specifically designed to carry passengers.
- All reciprocating, rotating, or other moving parts will be guarded at all times.
- Accessible fire extinguishers, currently (monthly) inspected, will be available in all mechanical lifting devices.
- Verify all loads/materials are secure before transportation.

Material handling tasks that are unusual or require specific guidance will need a written addendum to this HASP. The addendum must identify the lifting protocols before the tasks are performed. Upon approval, the plan must be reviewed with all affected employees and documented. Any deviation from a written plan will require approval by the Langan HSM.

3.3.10 Hearing Conservation

Under the construction industry standard, the maximum permissible occupational noise exposure is 90 A-weighted decibels (dbA) (8-hour TWA), and noise levels in excess of 90 dbA must be reduced through feasible administrative and engineering controls (20 CFR 1926.52). Hearing protection is required when working within 15 feet of vacuum extraction equipment and drill rigs.

3.3.11 Open Water

Employees working over or near water, where the danger of drowning exists, must be provided with U.S. Coast Guard-approved life jackets or buoyant work vests. Prior to and after each use, the buoyant work vests or life preservers must be inspected for defects that would alter their strength or buoyancy. Defective units must not be used.

And should a worker fall into the water, OSHA requires (29 CFR 1926.106(c)) that ring buoys with at least 90 feet of the line must be provided and readily available for emergency rescue operations. The distance between ring buoys must not exceed 200 feet. Another remedial action required by OSHA (29 CFR 1926.106(d)) is the use of lifesaving skiffs.

OSHA requires that at least one lifesaving skiff must be immediately available at locations where employees are working over or adjacent to water and must include the following provisions.

- The skiff must be in the water or capable of being quickly launched by one person.
- At least one person must be present and specifically designated to respond to water emergencies and operate the skiff at all times when there are employees above water.
- When the operator is on break another operator must be designated to provide requisite coverage when there are employees above water.
- The designated operator must either have the skiff staffed at all times or have someone remain in the immediate area such that the operator can quickly reach the skiff and perform rescue services.
- The skiff operator may be assigned other tasks provided the tasks do not interfere with the operator's ability to quickly reach the skiff.
- A communication system, such as a walkie-talkie, must be used to inform the skiff operator of an emergency and to inform the skiff operator where the skiff is needed.
- The skiff must be equipped with both a motor and oars.

With regard to the number of skiffs required and the appropriate maximum response time, the following factors must be evaluated:

- The number of work locations where there is a danger of falling into water.
- The distance to each of those locations.
- Water temperature and currents.
- Other hazards such as, but not limited to, rapids, dams, and water intakes.

Other regulations that present H&S practices and PPE for work on or near water include: 29 CFR 1910, Subpart T (401 – 440)

3.4 Biological Hazards

3.4.1 Animals

There is a possibility of encountering wildlife including reptiles, rodents, and other small and medium-size mammals. Langan personnel are to avoid interacting with any wildlife.

3.4.2 Insects

Ticks and other biting or stinging insects may be encountered during site operations. Langan personnel should take necessary precautions including donning long sleeve shirts and insecticide to prevent bites and stings. After fieldwork, Langan personnel should perform a complete visual inspection of their clothing to insure they are not inadvertently harboring ticks. If they do observe a tick bite, they are to contact the HSM or HSO and report the event.

3.4.3 Plants

Poisonous plants may be encountered during site operations. Langan personnel should take necessary precautions including donning long sleeve shirts and applying preventative poison Ivy/Sumac lotion to prevent or limit the effects of exposure. If after fieldwork, Langan employees do observe a reaction to poisonous plant exposure, they are to contact the HSM or HSO and report the event.

3.4.4 Mold

This section is restricted to subsurface investigations where sampling soil, groundwater, soil or sub-slab vapor or ambient air in an indoor environment with slight to moderate mold impact. Mold exposure symptoms include nasal stuffiness, eye irritation, or wheezing.

The Langan field engineer is required to don a ½ face respirator with a minimum p-100 particulate

filter and Tyvek™ type overclothing before entering mold impacted indoor work area. The Langan field engineer must be medically cleared and have been properly fitted for a respirator before donning one.

3.5 Additional Safety Analysis

3.5.1 Presence of Non-Aqueous Phase Liquids (NAPL)

Special care and PPE should be considered when NAPL is observed as NAPL is a typically flammable fluid and releases VOCs known to be toxic and/or carcinogenic. If NAPL is present in a monitoring well, vapors from the well casing may contaminate the work area breathing zone with concentrations of VOCs potentially exceeding health and safety action levels. In addition, all equipment used to monitor or sample NAPL (or ground water from wells containing NAPL) must be intrinsically safe. Equipment that directly contacts NAPL must also be resistant to organic solvents.

At a minimum, a PID should be used to monitor for VOCs when NAPL is observed. If NAPL is expected to be observed in an excavation or enclosed area, air monitoring must be started using calibrated air monitoring equipment designed to sound an audio alarm when atmospheric concentrations of VOC are within 10% of the LEL. In normal atmospheric oxygen concentrations, the LEL monitoring may be done with a Wheatstone bridge/catalytic bead type sensor (i.e., MultiRAE). However, in oxygen-depleted atmospheres (confined space), only an LEL designed to work in low-oxygen environments may be used. Best practices require that the LEL monitoring unit be equipped with a long sniffer tube to allow the LEL unit to remain outside the UST excavation.

When NAPL is present, Langan personnel are required to use disposable nitrile gloves at all times to prevent skin contact with contaminated materials. They should also consider having available a respirator and protective clothing (Tyvek® overalls), especially if NAPL is in abundance and there are high concentrations of VOCs.

All contaminated disposables including PPE and sampling equipment must be properly disposed of in labeled 55-gallon drums.

3.6 Job Safety Analysis

A Job Safety Analysis (JSA) is a process to identify existing and potential hazards associated with each job or task so these hazards can be eliminated, controlled, or minimized. A JSA will be performed at the beginning of each workday, and additionally whenever an employee begins a new task or moves to a new location. All JSAs must be developed and reviewed by all parties involved. A blank JSA form and documentation of completed JSAs are in Attachment G.

4.0 PERSONNEL TRAINING

4.1 Basic Training

Completion of an initial 40-hour HAZWOPER training program as detailed in OSHA's 29 CFR 1910.120(e) is required for all employees working on a site engaged in hazardous substance removal or other activities which expose or potentially expose workers to hazardous substances, health hazards, or safety hazards as defined by 29 CFR 1910.120(a). Annual 8-hour refresher training is also required to maintain competencies to ensure a safe work environment. In addition to these training requirements, all employees must complete the OSHA 10-hour Construction Safety and Health training and supervisory personnel must also receive eight additional hours of specialized management training. Training records are maintained by the HSM.

4.2 Initial Site-Specific Training

Training will be provided to specifically address the activities, procedures, monitoring, and equipment for site operations at the beginning of each field mobilization and the beginning of each discrete phase of work. The training will include the site and facility layout, hazards, and emergency services at the site, and will detail all the provisions contained within this HASP. For a HAZWOPER operation, training on the site must be for a minimum of 3 days. Specific issues that will be addressed include the hazards described in Section 3.0.

4.3 Tailgate Safety Briefings

Before starting work each day or as needed, the Langan HSO will conduct a brief tailgate safety meeting to assist site personnel in conducting their activities safely. Tailgate meetings will be documented in Attachment H. Briefings will include the following:

- Work plan for the day.
- Review of safety information relevant to planned tasks and environmental conditions.
- New activities/tasks being conducted.
- Results of Jobsite Safety Inspection Checklist.
- Changes in work practices.
- Safe work practices; and
- Discussion and remedies for noted or observed deficiencies.

5.0 MEDICAL SURVEILLANCE

All personnel who will be performing fieldwork involving potential exposure to toxic and hazardous substances (defined by 29 CFR 1910.120(a)) will be required to have passed an initial baseline medical examination, with follow-up medical exams thereafter, consistent with 29 CFR

1910.120(f). Medical evaluations will be performed by, or under the direction of, a physician board-certified in occupational medicine.

Additionally, personnel who may be required to perform work while wearing a respirator must receive medical clearance as required under CFR 1910.134(e), *Respiratory Protection*. Medical evaluations will be performed by, or under the direction of, a physician board-certified in occupational medicine. Results of medical evaluations are maintained by the HSM.

5.1 Mercury Monitoring

Langan includes medical monitoring for mercury during the initial baseline and annual physical.

5.2 Coronavirus

General Preventative Measures

Field personnel must follow general proper hygiene measures while in the field including:

- Avoid touching eyes, nose, and mouth.
- Cover coughs or sneezes with tissue and throw in the trash.
- Wash hands often with soap and water for 20 seconds after going to the bathroom, before eating, after blowing nose, coughing, or sneezing.
- Use hand sanitizer with at least 60% alcohol if soap and water are not available.
- Avoid physical contact with other people (e.g., no handshakes).
- Maintain a safe distance of at least six feet from other people (social distancing).
- Wear face coverings when around other workers to minimize the spread of COVID-19. (May be required in certain states or locations.)

Construction Trailers

Employees should avoid the use of shared construction trailers or where employees cannot maintain a safe distance (minimum 6 feet) from other workers. If trailer use is needed, areas such as desks, phones, chairs, and other common areas, should be cleaned and disinfected before and after use. Protocols should be developed to minimize trailer use to essential personnel, restrict use from any workers who are ill or showing symptoms of being ill, use face coverings and ensure a safe distance of six feet can be established between workers.

Communication

Include Coronavirus topics and prevention topics in daily tailgate meetings to ensure Coronavirus awareness is communicated daily. Discussions can focus on general topics including social

distancing, prevention measures for field personnel, signs and symptoms, and recent news on the Coronavirus. Site-specific topics should include minimizing face-to-face contact, disinfecting/sterilizing field equipment, use of PPE to reduce exposure, site security, use of face coverings, and other potential exposure issues/concerns.

Sick/Ill Workers

No Langan employee is permitted to be onsite when ill and/or showing potential symptoms of the Coronavirus. Symptoms of the Coronavirus may appear 2-14 days after exposure and can range from mild to severe. The most common symptoms include fever, fatigue, dry cough, shortness of breath chills, repeated shaking with chills, muscle pain, headache, sore throat, or new loss of taste or smell. If an employee or subcontractor is observed being ill or exhibiting symptoms of Coronavirus, employees must immediately utilize their Stop Work Authority and contact their project manager to address the situation. If an employee observes another worker onsite exhibiting symptoms of Coronavirus, immediately utilize Stop Work Authority, notify their project manager, and site construction manager or safety officer. Work should resume when the safety and health of Langan and subcontractors is adequately addressed.

6.0 PERSONAL PROTECTIVE EQUIPMENT

6.1 Levels of Protection

Langan will provide PPE to Langan employees to protect them from the specific hazards they are likely to encounter on-site. Directly hired contractors will provide their employees with equivalent PPE to protect them from the specific hazards likely to be encountered on-site. Selection of the appropriate PPE must take into consideration: (1) identification of the hazards or suspected hazards; (2) potential exposure routes; and (3) the performance of the PPE construction (materials and seams) in providing a barrier to these hazards.

Human exposure to contaminants found in the subsurface can occur through three primary routes:

- Inhalation of gases, vapors, dust, or mists is a common route of exposure. Chemicals can enter and irritate the airways and the lungs. They can become deposited in the airways or can be absorbed through the lungs into the bloodstream.
- Direct contact of contaminants with the skin or eyes is a common route of exposure. Some substances are absorbed through the skin and can enter the bloodstream. Broken, cut, or cracked skin will allow substances to enter the body more easily.
- Ingestion or swallowing of food, drink, or other substances is the third route of exposure. Chemicals that get in or on food, utensils, or hands can be ingested. Substances can be

absorbed into the blood.

Based on anticipated site conditions and the proposed work activities to be performed at the site, Level D protection will be used. The upgrading/downgrading of the level of protection will be based on continuous air monitoring results as described in Section 6.0 (when applicable). The decision to modify standard PPE will be made by the site HSO or FTL after conferring with the PM. The levels of protection are described below.

Level D Protection (as needed)

- Safety glasses with side shields or chemical splash goggles
- Safety boots/shoes
- Coveralls (Tyvek® or equivalent)
- Hard hat
- Long sleeve work shirt and work pants
- Nitrile gloves
- Hearing protection
- Reflective safety vest

Level D Protection (Modified, as needed)

- Safety glasses with side shields or chemical splash goggles
- Safety boots/shoes (toe-protected)
- Disposable chemical-resistant boot covers.
- Coveralls (poly-coated Tyvek or equivalent to be worn when contact with wet contaminated soil, groundwater, or non-aqueous phase liquids is anticipated)
- Hard hat
- Long sleeve work shirt and work pants
- Nitrile gloves
- Hearing protection (as needed)
- Personal floatation device (for work within 5 ft of the water)
- Reflective traffic vest

Level C Protection (as needed)

- Full or Half face, air-purifying respirator, with NIOSH approved High-Efficiency Particulate Air (HEPA) filter.
- Inner (latex) and outer (nitrile) chemical-resistant gloves
- Safety glasses with side shields or chemical splash goggles
- Chemical-resistant safety boots/shoes

- Hard hat
- Long sleeve work shirt and work pants
- Coveralls (Tyvek® or equivalent)
- Hearing protection (as needed)
- Reflective safety vest

The action levels used in determining the necessary levels of respiratory protection and upgrading to Level C are summarized in Table 4. The written Respiratory Protection Program is maintained by the HSM and is available if needed. The monitoring procedures and equipment are outlined in Section 6.0 (when applicable).

6.2 Respirator Fit-Test.

All Langan employees who may be exposed to hazardous substances at the work site must be in possession of a full or half face piece air-purifying respirator and have been successfully fit-tested within the past year. Fit-test records are maintained by the HSM.

6.3 Respirator Cartridge Change-Out Schedule

Respiratory protection is required to be worn when certain action levels (Table 2) are reached. A respirator cartridge change-out schedule has been developed to comply with 29 CFR 1910.134. The respirator cartridge change-out schedule for this project is as follows:

- Cartridges must be removed and disposed of at the end of each shift when cartridges become wet or the wearer experiences a breakthrough, whichever occurs first.
- If the humidity exceeds 85%, then cartridges must be removed and disposed of after 4 hours of use.

Respirators must not be stored at the end of the shift with contaminated cartridges left on. Cartridges must not be worn on the second day, no matter how short the time period was the previous day they were used.

7.0 AIR QUALITY MONITORING AND ACTIONS LEVELS

7.1 Monitoring During Site Operations

Atmospheric air monitoring results may be collected and used to provide data to determine when exclusion zones need to be established and when certain levels of personal protective equipment are required. For all instruments, there are Site-specific action-level criteria that are used in making field health and safety determinations. Other data, such as the visible presence of contamination or the steady state nature of air contaminant concentration, are also used in making field health and safety decisions. Therefore, the HSO may establish an exclusion zone

or require a person to wear a respirator even though atmospheric air contaminant concentrations are below established HASP action levels.

During site work involving disturbance of petroleum-impacted or fill material, real-time air monitoring may be conducted for methane and VOCs. A MultiRAE LEL/Oxygen (O2) meter and FID will be used to monitor the LEL of methane, and a PID and/or FID will be used to monitor concentrations of VOCs at personnel breathing-zone height. Air monitoring will be the responsibility of the HSO or designee. Air monitoring may be conducted during intrusive activities associated with the completion of excavation, debris removal, and soil grading. All manufacturers' instructions for instrumentation and calibration will be available onsite.

Subcontractors' air monitoring plans must be equal to or more stringent than the Langan plan.

An air monitoring calibration log is provided in Attachment D of this HASP.

7.1.1 Volatile Organic Compounds

Monitoring with a PID, such as a MiniRAE 2000 (10.6v) or equivalent may occur during intrusive work in the Areas of Concern (AOCs). Colorimetric Indicator Tubes for benzene may be used as a backup for the PID if measurements remain above background monitor every 2 hours. The HSO will monitor the employee's breathing zone at least every 30 minutes, or whenever there is any indication that concentrations may have changed (odors, visible gases, etc.) since the last measurement. If VOC levels are observed above 5 ppm for longer than 5 minutes or if the site PPE is upgraded to Level C, the HSO will begin monitoring the site perimeter at a location downwind of the AOC every 30 minutes in addition to the employee breathing zone. Instrument action levels for monitored gases are provided in Table 4.

7.1.2 Metals

Based upon the site historical fill, there is a potential for the soils to contain Polycyclic Aromatic Hydrocarbons (PAHs) and metals. During invasive procedures which have the potential for creating airborne dust, such as excavation of dry soils, a real-time airborne dust monitor such as a Mini-Ram may be used to monitor for air particulates. The HSO will monitor the employee's breathing zone at least every 30 minutes, or whenever there is any indication that concentrations may have changed (appearance of visible dust) since the last measurement. If dust levels are observed to be greater than 0.100 milligrams per cubic meter (mg/m^3) or visible dust is observed for longer than 15 minutes or if the site PPE is upgraded to Level C, the HSO will begin monitoring the site perimeter at a location downwind of the AOC every 30 minutes in addition to the employee breathing zone. Instrument action levels for dust monitoring are provided in Table 4.

7.1.3 Methane

During soil excavation or other intrusive activities, direct reading air monitoring may be performed in the excavation area to determine exposure to workers. Monitoring with an LEL/O2 meter and FID may occur during intrusive work in the AOCs. The HSO will monitor the employee's breathing zone at least hourly during intrusive activities. If LEL levels are observed above 20% the professional engineer (PE) or their designee will stop work and evacuate the area; warn others; and determine source of readings and take corrective actions. The Contractor will be responsible for mitigating explosive gas levels.

7.2 Monitoring Equipment Calibration and Maintenance

Instrument calibration must be documented and included in a dedicated safety and health logbook or on separate calibration pages of the field book. All instruments must be calibrated before and after each shift. Calibration checks may be used during the day to confirm instrument accuracy. Duplicate readings may be taken to confirm individual instrument responses.

All instruments must be operated in accordance with the manufacturers' specifications. Manufacturers' literature, including an operation manual for each piece of monitoring equipment, will be maintained on-site by the HSO for reference.

7.3 Determination of Background Levels

Background (BKD) levels for VOCs, dust, and methane will be established prior to intrusive activities within the AOC at an upwind location. A notation of BKD levels will be referenced in the daily monitoring log. BKD levels are a function of prevailing conditions. BKD levels will be taken in an appropriate upwind location as determined by the HSO.

Table 4 lists the instrument action levels.

8.0 COMMUNITY AIR MONITORING PROGRAM

Community air monitoring may be conducted in compliance with local standards. If conducted, Langan will implement the generic CAMP outlined below amended to comply with local conditions or standards:

Monitoring for dust and odors will be conducted during all ground intrusive activities by the FTL. Continuous monitoring of the perimeter of the work zones for odor, VOCs, and dust may be required for all ground intrusive activities such as soil excavation and handling activities. The work zone is defined as the general area in which machinery is operating in support of remediation activities. A portable PID will be used to monitor the work zone and for periodic monitoring for VOCs during activities such as soil and groundwater sampling and soil excavation.

The site perimeter will be monitored for fugitive dust emissions by visual observations as well as instrumentation measurements (if required). When required, particulate or dust will be monitored continuously with real-time field instrumentation that will meet, at a minimum, the local standards or, default to the performance standards below:

If VOC monitoring is required, the following actions will be taken based on VOC levels measured:

- If total VOC levels exceed 5 ppm above background for the 15-minute average at the perimeter, work activities will be temporarily halted and monitoring continued. If levels readily decrease (per instantaneous readings) below 5 ppm above background, work activities will resume with continued monitoring.
- If total VOC levels at the downwind perimeter of the hot zone persist at levels in excess of 5 ppm above background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps work activities will resume provided that the total organic vapor level is 200 feet downwind of the hot zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less – but in no case less than 20 feet, is below 5 ppm above background for the 15-minute average.
- If the total VOC level is above 25 ppm at the perimeter of the hot zone, activities will be shut down.

If dust monitoring with field instrumentation is required, the following actions will be taken based on instrumentation measurements:

- If the downwind particulate level is 100 micrograms per cubic meter (µg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression must be employed. Work may continue with dust suppression techniques provided that downwind particulate matter less than 10 microns (PM10) levels do not exceed 150 µg/m^3 above the background level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM10 levels are greater than 150 µg/m^3 above the background level, work must be stopped, and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM10 concentration to within 150 µg/m^3 of the upwind level and in preventing visible dust migration.

8.1 Dust Suppression Techniques

Preventative measures for dust generation may include wetting site fill and soil, construction of

an engineered construction entrance with a gravel pad, a truck wash area, covering soils with tarps, and limiting vehicle speeds to five miles per hour.

Work practices to minimize odors and vapors include limiting the time that the excavations remain open, minimizing stockpiling of contaminated-source soil, and minimizing the handling of contaminated material. Offending odor and organic vapor controls may include the application of foam suppressants or tarps over the odor or VOC source areas. Foam suppressants may include biodegradable foams applied over the source material for short-term control of the odor and VOCs.

If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include direct load-out of soils to trucks for off-site disposal; use of chemical odorants in spray or misting systems; and use of staff to monitor odors in surrounding neighborhoods.

Where odor nuisances have developed during remedial work and cannot be corrected, or where the release of nuisance odors cannot otherwise be avoided due to on-site conditions or proximity to sensitive receptors, odor control will be achieved by sheltering excavation and handling areas under tented containment structures equipped with appropriate air venting/filtering systems.

9.0 WORK ZONES AND DECONTAMINATION

9.1 Site Control

Work zones are intended to control the potential spread of contamination throughout the site and to assure that only authorized individuals are permitted into potentially hazardous areas.

Any person working in an area where the potential for exposure to site contaminants exists will only be allowed access after providing the HSO with proper training and medical documentation.

Exclusion Zone (EZ) - All activities which may involve exposure to site contaminants, hazardous materials, and/or conditions should be considered an EZ. Decontamination of field equipment will also be conducted in the Contaminant Reduction Zone (CRZ) which will be located on the perimeter of the EZ. The EZ and the CRZ will be delineated by cones, tapes, or other means. The HSO may establish more than one EZ where different levels of protection may be employed, or different hazards exist. The size of the EZ must be determined by the HSO allowing adequate space for the activity to be completed, field members, and emergency equipment.

9.2 Contamination Zone

9.2.1 Personnel Decontamination Station

Personal hygiene, coupled with diligent decontamination, will significantly reduce the potential for exposure.

9.2.2 Minimization of Contact with Contaminants

During the completion of all site activities, personnel should attempt to minimize the chance of contact with contaminated materials. This involves a conscientious effort to keep "clean" during site activities. All personnel should minimize kneeling, splash generation, and another physical contact with contamination as PPE is intended to minimize accidental contact. This may minimize the degree of decontamination required and the generation of waste materials from site operations.

Field procedures will be developed to control spray and runoff and to ensure that unprotected personnel working nearby are not affected.

9.2.3 Personnel Decontamination Sequence

Decontamination may be performed by removing all PPE used in EZ and placing it in drums/trash cans at the CRZ. Baby wipes should be available for wiping hands and face. Drums/trash cans-will be labeled by the field crews in accordance with all local, state, and federal requirements. Management plans for contaminated PPE, and tools are provided below.

9.2.4 Emergency Decontamination

If circumstances dictate that contaminated clothing cannot be readily removed, then remove gross contamination and wrap injured personnel with clean garments/blankets to avoid contaminating other personnel or transporting equipment. If the injured person can be moved, he/she will be decontaminated by site personnel as described above before emergency responders handle the victim. If the person cannot be moved because of the extent of the injury (a back or neck injury), provisions must be made to ensure that emergency response personnel will be able to respond to the victim without being exposed to potentially hazardous atmospheric conditions. If the potential for inhalation hazards exists, such as with open excavation, this area will be covered with polyethylene sheeting to eliminate any potential inhalation hazards. All emergency personnel should be immediately informed of the injured person's condition, and potential contaminants, and provided with all pertinent data.

9.2.5 Hand-Held Equipment Decontamination

Hand-held equipment includes all monitoring instruments as stated earlier, samples, hand tools, and notebooks. The hand-held equipment is dropped at the first decontamination station to be decontaminated by one of the decontamination team members. These items must be decontaminated or discarded as waste prior to removal from the CRZ.

To aid in decontamination, monitoring instruments can be sealed in plastic bags or wrapped in polyethylene. This will also protect the instruments against contaminants. The instruments will be wiped clean using wipes or paper towels if contamination is visually evident. Sampling equipment, hand tools, etc. will be cleaned with non-phosphorous soap to remove any potentially contaminated soil and rinsed with deionized water. All decontamination fluids will be containerized and stored on-site pending waste characterization sampling and appropriate off-site disposal.

9.2.6 Heavy Equipment Decontamination

All heavy equipment and vehicles arriving at the work site will be free from contamination from offsite sources. Any vehicles arriving to work that are suspected of being impacted will not be permitted on the work site. Potentially contaminated heavy equipment will not be permitted to leave the EZ unless it has been thoroughly decontaminated and visually inspected by the HSO or his designee.

9.3 Support Zone

The support zone or cold zone will include the remaining areas of the job site. Break areas and support facilities (including equipment storage and maintenance areas) will be located in this zone. No equipment or personnel will be permitted to enter the cold zone from the hot zone without passing through the decontamination station in the warm zone (if necessitated). Eating, smoking, and drinking will be allowed only in this area.

9.4 Communications

The following communications equipment will be utilized as appropriate.

- Telephones - A cellular telephone will be located with the HSO for communication with the HSM and emergency support services/facilities.

- Hand Signals - Hand signals must be used by field teams, along with the buddy system. The entire field team must know them before operations commence and their use covered during site-specific training. Typical hand signals are the following:

Hand Signal	Meaning
Hand gripping throat	Out of air, cannot breathe
Grip your partner's wrists or place both hands around the waist	Leave immediately without debate
Hands on top of head	Need assistance
Thumbs up	OK; I am all right; I understand
Thumbs down	No; negative
Simulated "stick" break with fists	Take a break; stop work

9.5 The Buddy System

When working in teams of two or more, workers will use the "buddy system" for all work activities to ensure that rapid assistance can be provided in the event of an emergency. This requires work groups to be organized such that workers can remain close together and maintain visual contact with one another. Workers using the "buddy system" have the following responsibilities:

- Provide his/her partner with assistance.
- Observe his/her partner for signs of chemical or heat exposure.
- Periodically check the integrity of his/her partner's PPE.
- Notify the HSO or other site personnel if emergency service is needed.

10.0 NEAREST MEDICAL ASSISTANCE

The address and telephone number of the nearest hospital:

Montefiore Jack D. Weller Hospital/Einstein Campus
1825 Eastchester Road
Bronx, New York
718-904-2800

A map with directions to the hospital is shown in Figure 2. This information will either be posted prominently at the site or will be available to all personnel all of the time. Further, all field personnel, including the HSO & FTL, will know the directions to the hospital.

11.0 STANDING ORDERS/SAFE WORK PRACTICES

The standing orders, which consist of a description of safe work practices that must always be followed while on-site by Langan employees and contractors, are shown in Attachment A. The site HSO and FTL each have the responsibility for enforcing these practices. The standing orders

will be posted prominently at the site or are made available to all personnel at all times. Those who do not abide by these safe work practices will be removed from the site.

12.0 SITE SECURITY

No unauthorized personnel must be permitted access to the work areas.

13.0 UNDERGROUND UTILITIES

As provided in Langan's Underground Utility Clearance Guidelines, the following safe work practices should be followed by Langan personnel and the contractor before and during subsurface work in accordance with federal, state, and local regulations:

- Obtain available utility drawings from the property owner/client or operator.
- Provide utility drawings to the project team.
- In the field, mark the proposed area of subsurface disturbance (when possible).
- Ensure that the utility clearance system has been notified.
- Ensure that utilities are marked before beginning subsurface work.
- Discuss subsurface work locations with the owner/client and contractors.
- Obtain approval from the owner/client and operators for proposed subsurface work locations.
- Use safe digging procedures when applicable.
- Stay at least 10 feet from all equipment performing subsurface work.

14.0 SITE SAFETY INSPECTION

The Langan HSO or alternate will check the work area daily, at the beginning and end of each work shift, or more frequently to ensure safe work conditions. The HSO or alternate must complete the Jobsite Safety Inspection Checklist, found in Attachment F. Any deficiencies must be shared with the FTL, HSM, and PM and will be discussed at the daily tailgate meeting.

15.0 HAND AND POWER TOOLS

All hand- and electric-power tools and similar equipment must be maintained in a safe operating condition. All electric-power tools must be inspected before initial use. Damaged tools must be removed immediately from service or repaired. Tools must be used only for the purpose for which they were designed. All users must be properly trained in their safe operation.

16.0 EMERGENCY RESPONSE

16.1 General

This section establishes procedures and provides information for use during a project emergency. Emergencies happen unexpectedly and quickly, and require an immediate response; therefore, contingency planning and advanced training of staff is essential. Specific elements of emergency support procedures that are addressed in the following subsections include communications, local emergency support units, and preparation for medical emergencies, first aid for injuries incurred on site, record keeping, and emergency site evacuation procedures. In case of emergency, in addition to 911, call *WorkCare - Incident Intervention®* at 1-888-479-7787 to report their injuries. For all other communications, contact the Langan Incident Hotline at **973-560-4699** as soon as possible.

Should outside assistance be needed for accidents, fire, or release of hazardous substances, the emergency numbers will be available and posted at the site (Table 5) where a readily accessible telephone is made available for emergency use.

Also, in the event of an incident where a team member becomes exposed or suffers from an acute symptom from contact with site materials and has to be taken to a hospital, a short medical data sheet (Attachment C) for that individual will be made available to the attending physician. The medical data sheet will include the following:

- Name, address, home phone
- Age, height, weight
- Name of person to be notified in case of an accident.
- Allergies
- Particular sensitivities
- Does he/she wear contact lenses?
- Short checklist of previous illness
- Name of personal physician and phone
- Name of company physician and phone
- Prescription and non-prescription medications currently used.

An incident reporting form is included in Attachment C.

16.2 Responsibilities

16.2.1 Health and Safety Officer (HSO)

The HSO is responsible for ensuring that all personnel are evacuated safely, and that machinery and processes are shut down or stabilized in the event of a stop work order or evacuation. The

HSO is responsible for ensuring the HSM is notified of all incidents, all injuries, near misses, fires, spills, releases, or equipment damage. The HSO is required to immediately notify the HSM of any fatalities or catastrophes (three or more workers injured and hospitalized) so that the HSM can notify OSHA within the required time limit.

16.2.2 Emergency Coordinator

The HSO or their designated alternate will serve as the Emergency Coordinator. The Emergency Coordinator is responsible for ensuring that all personnel are evacuated safely, and that machinery and processes are shut down or stabilized in the event of a stop work order or evacuation. They are also responsible for ensuring the HSM is notified of all incidents, all injuries, near misses, fires, spills, releases, or equipment damage. The Emergency Coordinator is required to immediately notify the HSM of any fatalities or catastrophes (three or more workers injured and hospitalized.

The Emergency Coordinator must locate emergency phone numbers and identify hospital routes prior to beginning work on the sites. The Emergency Coordinator must make necessary arrangements to be prepared for any emergencies that could occur.

The Emergency Coordinator is responsible for implementing the Emergency Response Plan.

16.2.3 Site Personnel

Project site personnel are responsible for knowing the Emergency Response Plan and the procedures contained herein. All personnel are expected to notify the Emergency Coordinator of situations that could constitute a site emergency. Project site personnel, including all subcontractors, will be trained in the Emergency Response Plan.

16.3 Communications

Once an emergency situation has been stabilized, the injured Langan personnel should contact *WorkCare - Incident Intervention®* at 1-888-479-7787 to report their injuries. For all other communications, contact the Langan Incident Hotline at **973-560-4699** as soon as possible.

16.4 Local Emergency Support Units

In order to be able to deal with any emergency that might occur during investigative activities at the site, the Emergency Notification Numbers (Table 5) will be posted and provided to all personnel conducting work within the EZ.

Figure 2 shows the hospital route map. Outside emergency number 911 and local ambulance should be relied on for response to medical emergencies and transport to emergency rooms. Always contact first responders when there are serious or life-threatening emergencies on the

site. Project personnel are instructed not to drive injured personnel to the Hospital. In the event of an injury, provide first aid and keep the injured party calm and protected from the elements, and treat for shock when necessary.

16.5 Pre-Emergency Planning

Langan will communicate directly with administrative personnel from the emergency room at the hospital to determine whether the hospital has the facilities and personnel needed to treat cases of trauma resulting from any of the contaminants expected to be found on the site. Instructions for finding the hospital will be posted conspicuously in the site office and each site vehicle.

16.6 Emergency Medical Treatment

The procedures and rules in this HASP are designed to prevent employee injury. However, if an injury occurs, no matter how slight, it will be reported to the HSO immediately. First-aid equipment will be available on-site at the following locations:

- First Aid Kit: Contractor Vehicles
- Emergency Eye Wash: Contractor Vehicles

During the site safety briefing, project personnel will be informed of the location of the first aid station(s) that has been set up. Some injuries, such as severe cuts and lacerations or burns, may require immediate treatment. First-aid instructions provided from off-site doctors or paramedics, before an emergency-response squad arrives at the site or before the injured person can be transported to the hospital, will be followed closely. Only in non-emergency situations may an injured person be transported to an urgent care facility. Due to hazards that may be present at the site and the conditions under which operations are conducted, an emergency may develop. Emergencies can be characterized as injury or acute chemical exposure to personnel, fire or explosion, environmental release, or hazardous weather conditions.

16.8 Emergency Site Evacuation Routes and Procedures

All project personnel will be instructed on proper emergency response procedures and locations of emergency telephone numbers during the initial site safety meeting. If an emergency occurs as a result of the site investigation activities, including but not limited to fire, explosion, or significant release of toxic gas into the atmosphere, the Langan Project Manager will be verbally notified immediately. All heavy equipment will be shut down and all personnel will evacuate the work areas and assemble at the nearest intersection to be accounted for and to receive further instructions.

If an emergency arises, the FTL will implement an immediate evacuation of all project personnel due to immediate or impending danger. The FTL will also immediately communicate with the contractor to coordinate any needed evacuation of the property.

The FTL or Site Supervisor will give necessary instructions until the Designated Incident Commander (IC) assumes control. After the emergency has been resolved, the FTL or Site Supervisor will coordinate with the IC and indicate when staff should resume their normal duties. If dangers are present for those at the designated assembly point, another designated location of assembly will be established.

It will be the responsibility of the FTL or Site Supervisor to report a fire or emergency, assess the seriousness of the situation, and initiate emergency measures until the arrival of the local fire fighters or other first responders, should they be necessary. The FTL, working with emergency responders, may also order the closure of the Site for an indefinite period as long as it is deemed necessary.

Under no circumstances will incoming visitors be allowed to proceed to the area of concern once an emergency evacuation has been implemented. Visitors or other persons present in the area of the emergency must be instructed to evacuate the area. The FTL will ensure that access roads are not obstructed and will remain on-site to provide stand-by assistance upon the arrival of emergency personnel.

If it is necessary to temporarily control traffic in the event of an emergency, those persons controlling traffic will wear proper reflection warning vests until the arrival of police or fire personnel.

16.8.1 Designated Assembly Locations

All personnel will evacuate the site and assemble at a designated assembly location. The assembly location will be designated by Langan personnel and discussed during each shift's pre-job safety briefing.

16.8.2 Accounting for Personnel

All contractor and subcontractor supervisors are responsible for the accounting of all personnel assembled at the designed assembly area. The Designated Incident Commander must be notified if personnel are not found.

16.9 Fire Prevention and Protection

In the event of a fire or explosion, procedures will include immediately evacuating the site and notification of the Langan Project Manager of the investigation activities. Portable fire

extinguishers will be provided at the work zone. The extinguishers located in the various locations should also be identified prior to the start of work. No personnel will fight a fire beyond the stage where it can be put out with a portable extinguisher (incipient stage).

16.9.1 Fire Prevention

Fires will be prevented by adhering to the following precautions:

- Good housekeeping and storage of materials.
- Storage of flammable liquids and gases away from oxidizers.
- Shutting off engines to refuel.
- Grounding and bonding metal containers during transfer of flammable liquids.
- Use of UL approved flammable storage cans.
- Fire extinguishers rated at least 10 pounds ABC located on all heavy equipment, in all trailers and near all hot work activities.

The person responsible for the control of fuel source hazards and the maintenance of fire prevention and/or control equipment is the HSO.

16.10 Significant Vapor Release

Based on the proposed tasks, the potential for a significant vapor release is low. However, if a release occurs, the following steps will be taken:

- Move all personnel to an upwind location. All non-essential personnel must evacuate.
- Upgrade to Level C Respiratory Protection.
- Downwind perimeter locations must be monitored for volatile organics.
- If the release poses a potential threat to human health or the environment in the community, the Emergency Coordinator must notify the Langan Project Manager.
- Local emergency response coordinators will be notified.

16.11 Overt Chemical Exposure

The following are standard procedures to treat chemical exposures. Other, specific procedures detailed on the Material Safety Data Sheet (MSDS) will be followed, when necessary.

SKIN AND EYE: Use copious amounts of soap and water from eye-wash kits and portable hand-wash stations.

CONTACT: Wash/rinse affected areas thoroughly, then provide appropriate medical attention. Skin must also be rinsed for 15 minutes if contact with caustics, acids, or hydrogen peroxide occurs. Affected items of clothing must also be removed from contact with skin.

Providing wash water and soap will be the responsibility of each individual contractor or subcontractor on-site.

16.12 Decontamination during Medical Emergencies

If emergency lifesaving first aid and/or medical treatment is required, normal decontamination procedures may need to be abbreviated or omitted. The HSO or designee will accompany contaminated victims to the medical facility to advice on matters involving decontamination when necessary. The outer garments can be removed if they do not cause delays, interfere with treatment, or aggravate the problem. Respiratory equipment must always be removed. Protective clothing can be cut away. If the outer contaminated garments cannot be safely removed on site, a plastic barrier placed between the injured individual and clean surfaces should be used to help prevent contamination of the inside of ambulances and/or medical personnel. Outer garments may then be removed at the medical facility. No attempt will be made to wash or rinse the victim if his/her injuries are life threatening unless it is known that the individual has been contaminated with an extremely toxic or corrosive material which could also cause severe injury or loss of life to emergency response personnel. For minor medical problems or injuries, normal decontamination procedures will be followed.

16.13 Adverse Weather Conditions

In the event of adverse weather conditions, the HSO will determine if work will continue without potentially risking the safety of all field workers. Some of the items to be considered prior to determining if work should continue are:

- Potential for heat stress and heat-related injuries.
- Potential for cold stress and cold-related injuries.
- Treacherous weather-related working conditions (hail, rain, snow, ice, high winds).
- Limited visibility (fog).
- Potential for electrical storms.
- Earthquakes.
- Other major incidents.

Site activities will be limited to daylight hours, or when suitable artificial light is provided, and acceptable weather conditions prevail. The HSO will determine the need to cease field operations or observe daily weather reports and evacuate, if necessary, in case of severe inclement weather conditions.

16.14 Spill Control and Response

All small spills/environmental releases must be contained as close to the source as possible. Whenever possible, the MSDS will be consulted to assist in determining proper waste characterization and the best means of containment and cleanup. For small spills, sorbent materials such as sand, sawdust, or commercial sorbents should be placed directly on the substance to contain the spill and aid recovery. Any acid spills should be diluted or neutralized carefully prior to attempting recovery. Berms of earthen or sorbent materials can be used to contain the leading edge of the spills. All spill containment materials will be properly disposed of. An exclusion zone of 50 to 100 feet around the spill area should be established depending on the size of the spill.

All contractor vehicles must have spill kits on them with enough material to contain and absorb the worst-case spill from that vehicle. All vehicles and equipment must be inspected prior to being admitted on-site. Any vehicle or piece of equipment that develops a leak will be taken out of service and removed from the job site.

The following seven steps must be taken by the Emergency Coordinator:

1. Determine the nature, identity, and amounts of major spills.
2. Make sure all unnecessary persons are removed from the spill area.
3. Notify the HSO immediately.
4. Use proper PPE in consultation with the HSO.
5. If a flammable liquid, gas, or vapor is involved, remove all ignition sources, and use non-sparking and/or explosion-proof equipment to contain or clean up the spill (diesel-only vehicles, air-operated pumps, etc.)
6. If possible, try to stop the leak with the appropriate material.
7. Remove all surrounding materials that can react or compound with the spill.

In addition to the spill control and response procedures described in this HASP, Langan personnel will coordinate with the designated project manager relative to spill response and control actions. Notification to the Project Manager must be immediate and, to the extent possible, include the following information:

- Time and location of the spill.
- Type and nature of the material spilled.
- Amount spilled.
- Whether the spill has affected or has a potential to affect a waterway or sewer.
- A brief description of affected areas/equipment.
- Whether the spill has been contained.

- Expected time of cleanup completion. If spill cleanup cannot be handled by Langan's on-site personnel alone, such fact must be conveyed to the Project Manager immediately.

Langan field personnel must notify the project manager when they observe a spill or encounter conditions suggesting one might have occurred.

16.15 Emergency Equipment

The following minimum emergency equipment must be kept and maintained on site:

- Industrial first aid kit.
- Fire extinguishers (one per site).

16.16 Restoration and Salvage

After an emergency, prompt restoration of utilities, fire protection equipment, medical supplies, and other equipment will reduce the possibility of further losses. Some of the items that may need to be addressed are:

- Refilling fire extinguishers.
- Refilling medical supplies.
- Recharging eyewashes and/or showers.
- Replenishing spill control supplies.

16.17 Documentation

Immediately following an incident or near miss, unless emergency medical treatment is required, either the employee or a coworker must contact the Langan Incident/Injury Hotline at 1-(800)-9-LANGAN (extension 4699) and the client representative to report the incident or near miss. For emergencies involving personnel injury and/or exposure, the HSO and affected employee will complete and submit an Employee Exposure/Injury Incident Report (Attachment C) to the Langan Corporate Health and Safety Manager as soon as possible following the incident.

17.0 SPECIAL CONDITIONS

This guideline contains information and requirements for special conditions that may not be routinely encountered.

17.1 Scope

The guideline applies to the specific projects identified within this document. Additional provisions will be addressed in each Site-Specific Health and Safety Plan (HASP), as needed.

17.2 Responsibilities

Site Personnel - All site personnel must be alert to safety hazards on work sites and take action to minimize such hazards. Personnel must utilize the buddy system, watch for inappropriate behavior, and be alerted to changes in site conditions.

Health and Safety Officer (HSO) - The HSO is responsible for considering these procedures in the development of site-specific HASPs. The HSO must schedule frequent "tail gate" safety briefings to enhance safety awareness and discuss potential problems.

17.3 Procedures

The procedures outlined below must be followed when such conditions are encountered.

17.3.1 Ladders

Langan safety procedures must be used to ensure employee safety when using ladders in the office or work sites. All ladders must be coated or repaired to prevent injury to the employee from punctures or lacerations and to prevent snagging or clothing. Any wood ladders used must have an opaque covering except for identification or warning labels, which may be placed on one face only of a side rail.

17.3.1.1 Ladder Use

Employees must only use ladders for the purposes they were designed for and must not be used as scaffolding. Ladders will be maintained and inspected prior to use for slip hazards including oil and grease. Employees must use ladders only on stable and level surfaces unless the ladder is secured to prevent displacement. Ladders should not be used on slippery surfaces unless secured or provided with slip-resistant feet to prevent accidental displacement. Ladders should not be used in locations where they could be displaced by workplace activities or traffic. Ladder rungs, cleats and steps must be parallel, level and uniformly spaced when the ladder is in the use position.

Employees should not be carrying anything including equipment that could cause injury if there was a fall while utilizing the ladder. The top and bottom of the ladder area must remain clear while in use. When ascending and descending the ladder, employees must face the ladder.

Ladders must not be loaded beyond the maximum intended load for which they were built or the manufacturer's rated capacity.

17.3.1.2 Portable Ladders

Rungs, cleats, and steps for portable ladders and fixed ladders must be spaced not less than 10 inches apart, nor more than 14 inches apart, as measured between center lines of the rungs, cleats, and steps. When used to access an upper landing surface, the ladder side rails must extend at least three feet above the upper landing surface to which the ladder is used to gain access. If this is not possible, due to the length of the ladder, then the top of the ladder must be secured at its top to a rigid support.

17.3.1.3 Step Stools

Rungs, cleats, and steps of step stools must not be less than 8 inches apart, nor more than 12 inches apart, as measured between center lines of the rungs, cleats, and steps.

17.3.1.4 Extension Ladders

Rungs, cleats, and steps of the base section of extension trestle ladders must be spaced not less than 8 inches apart, nor more than 18 inches apart, as measured between center lines of the rungs, cleats, and steps. The rung spacing on the extension section of the extension trestle ladder must not be less than 6 inches nor more than 12 inches, as measured between the center lines of the rungs, cleats and steps. Ladders must be used at an angle such that the horizontal distance from the top support to the foot of the ladder is approximately one-quarter of the working length of the ladder (the distance along the ladder between the foot and the top support).

17.3.1.5 Inspection

Ladders will be inspected for visible detects periodically, prior to utilization or after any occurrence that could have negatively affected the ladder. Portable ladders with defects including broken or missing rungs, cleats, or steps, broken or split rails, corroded components, or other faulty components must not be used. The ladder will be immediately marked as defective, tagged as "Do Not Use" or blocked from being used and removed from service until repaired.

17.3.2 First Aid/Cardiopulmonary Resuscitation (CPR)

Langan field and office personnel will be encouraged to be trained in First Aid and Cardiopulmonary Resuscitation (CPR). Training will be provided free of charge by Langan to all employees. Employees will receive a training certificate that will be kept on file with the Health & Safety Coordinator (HSC). Training and certification will be provided by a credited provider such as American Red Cross or equivalent.

17.3.2.1 Emergency Procedures

Prior to site work, the Langan employees certified in first aid and CPR will be identified in the site-specific HASP. Langan will endear to have at least one employee at a job site trained and able to render first aid and CPR. The site-specific HASP will contain first aid information on both potential chemical and physical hazards. Emergency procedures to be followed in case of injury or illnesses are provided in the HASP. The HASP will include emergency contact information including local police and fire departments, hospital emergency rooms, ambulance services, on-site medical personnel, and physicians. The HASP will also include directions and contact information for the nearest emergency facility in case immediate medical attention is required. The emergency contact information will be conspicuously posted at the worksite. Employees that are injured and require immediate medical attention must call either 911 or the local posted emergency contacts. Employees should use ambulatory services to transport injured workers to the nearest facility for emergency medical care. In areas where 911 is not available, the telephone numbers of physicians, hospitals, or ambulances must be conspicuously posted.

17.3.2.2 First Aid Supplies

First aid supplies are readily available to all Langan employees when required. First aid kits are located in each Langan office. Portable first aid kits are available for employees to use at work sites. First aid kits should consist of items needed to treat employees for potential chemical and physical injuries. At a minimum, first aid kits should contain items to allow basic first aid to be rendered. Where the eyes or body of an employee may be exposed to corrosive materials, suitable facilities for quick drenching or flushing of the eyes and body must be provided within the work area for immediate emergency use including eye wash.

First aid kits will be weatherproof with individually sealed packages of each item. All portable first aid kits must be inspected by Langan employees before and after use to ensure all used items are replaced. When out in the field, employees must check first aid kits weekly to ensure used items are replaced.

17.3.3 Hydrogen Sulfide

Langan employees with the potential to be exposed to hydrogen sulfide while at work sites must have training in hydrogen sulfide awareness. The training will include the identification of areas where employees could be exposed to hydrogen sulfide, health effects, permissible exposure limits, first aid procedures, and personnel protective equipment. Langan employees could be exposed to hydrogen sulfide while at job sites including petroleum refineries, hazardous waste treatment, storage and disposal facilities, uncontrolled hazardous waste sites, and remediation projects.

17.3.3.1 Characteristics

Hydrogen sulfide is a colorless gas with a strong odor of rotten eggs that is soluble in water. Hydrogen sulfide is used to test and make other chemicals. It is also found as a by-product of chemical reactions, such as in sewer treatment. It is a highly flammable gas and a dangerous fire hazard. Poisonous gases are produced in fires including sulfur oxides. Hydrogen sulfide is not listed as a carcinogen.

17.3.3.2 Health Effects

Hydrogen Sulfide can affect employees if inhaled or through contact with skin or eyes. Acute (or short-term) health effects of hydrogen sulfide exposure include irritation of the nose and throat, dizziness, confusion, headache, and trouble sleeping. Inhalation of hydrogen sulfide can irritate the lungs causing coughing and/or shortness of breath. Higher levels of exposure can cause a build-up of fluid in the lungs (pulmonary edema), a medical emergency, with severe shortness of breath.

Chronic (or long-term) health effects of low levels of exposure to hydrogen sulfide can cause pain and redness of the eyes with blurred vision. Repeated exposure may cause bronchitis with cough, phlegm, and shortness of breath.

17.3.3.3 Protective Clothing and Equipment

Respirators are required for those operations in which employees will be exposed to hydrogen sulfide above OSHA permissible exposure level. The maximum OSHA permissible exposure limit (PEL) for hydrogen sulfide is 20 parts of hydrogen sulfide vapor per million parts of air (20 ppm) for an 8-hour workday and the maximum short-term exposure limit (STEL) is 10 ppm for any 10-minute period.

Where employees are exposed to levels up to 100 parts of hydrogen sulfide vapor per million parts of air (100 ppm), the following types of respiratory protection are allowed:

- Any powered, air-purifying respirator with cartridge(s).
- Any air-purifying, full-facepiece respirator (gas mask) with a chin style, front- or back-mounted canister.
- Any supplied air system with escape self-contained breathing apparatus, if applicable; and,
- Any self-contained breathing apparatus with a full facepiece.

Respirators used by employees must have joint Mine Safety and Health Administration and the National Institute for Occupational Safety and Health (NIOSH) seal of approval. Cartridges or canisters must be replaced before the end of their service life, or the end of the shift, whichever

occurs first. Langan employees that have the potential to be exposed to hydrogen sulfide will be trained in the proper use of respirators. Respirator training is discussed under– Langan's Respiratory Protection Program.

Employees with potential exposure to hydrogen sulfide, or when required by the client, will wear a portable hydrogen sulfide gas detector. The detector should have an audible, visual, and vibrating alarm. The detector may also provide detection for carbon monoxide, sulfur dioxide, and oxygen-deficient atmospheres. The hydrogen sulfide monitor will, at a minimum, be calibrated to detect hydrogen sulfide at a level of 20 parts of hydrogen sulfide vapor per million parts of air (20 ppm). Many portable gas detectors will have factory defaults with a low-level alarm at 10 ppm and a high-level alarm at 15 ppm. Langan employees must consult clients to determine if any site-specific threshold levels exist.

If the hydrogen sulfide gas detector sounds and employees are not wearing appropriate respiratory protection, employees must immediately vacate the area and meet at the assigned emergency location. Langan employees may not re- enter the site without proper respiratory protection and approval from the client or property owner if needed.

Employees must wear PPE to prevent eye and skin contact with hydrogen sulfide. Employees must wear appropriate protective clothing including boots, gloves, sleeves, and aprons, over any parts of their body that could be exposed to hydrogen sulfide. Non-vented, impact-resistant goggles should be worn when working with or exposed to hydrogen sulfide.

17.3.3.4 Emergency and First Aid Procedures

Eye and Face Exposure

If hydrogen sulfide comes in contact with eyes, it should be washed out immediately with large amounts of water for 30 minutes, occasionally lifting the lower and upper eye lids. Seek medical attention immediately.

Skin Exposure

If hydrogen sulfide contaminates clothing or skin, remove the contaminated clothing immediately and wash the exposed skin with large amounts of water and soap. Seek medical attention immediately. Contaminated clothing should either be disposed of or washed before wearing again.

Breathing

If a Langan employee or other personnel breathe in hydrogen sulfide, immediately get the exposed person to fresh air. If breathing has stopped, artificial respiration should be started. Call for medical assistance or a doctor as soon as possible.

Safety Precautions

Hydrogen sulfide is a highly flammable gas and a dangerous fire hazard. Containers of hydrogen sulfide may explode in a fire situation. Poisonous gases are produced during fires.

Langan employees should contact property owners and operators prior to conducting work onsite to be aware of any site-specific contingency plans, identify where hydrogen sulfide is used at the facility, and be informed about additional safety rules or procedures.

17.3.4 Fire Protection/Extinguishers

Langan field personnel that have been provided with portable fire extinguishers for use at worksites will be trained to familiarize employees with general principles of fire extinguisher use and hazards associated with the incipient stage of firefighting. Training will be provided prior to the initial assignment for field work and annually thereafter.

Portable fire extinguishers must be visually inspected monthly and subjected to an annual maintenance check. Langan will retain records of the annual maintenance date.

17.3.5 Overhead lines

When field work is performed near overhead lines, the lines must be de-energized and grounded, or other protective measures must be provided before the work commences. If overhead lines are to be de-energized, arrangements must be made with the client, property owner, or organization that operates or controls the electric circuits involved to de-energize and ground them. If protective measures, such as guarding, isolating, or insulating, are provided, these precautions must prevent employees from contacting such lines directly with any part of their body or indirectly through conductive materials, tools, or equipment.

When unqualified Langan personnel are working in an elevated position near overhead lines, the location must be such that the person and the longest conductive object they may contact cannot come closer to any unguarded, energized overhead line than the following distances:

1. For voltages to ground 50 kilovolts (kV) or below - 10 feet; and
2. For voltages to ground over 50kV - 10 feet, plus 4 inches for every 10kV over 50kV.

As previously indicated, Langan does not retain qualified employees to perform work on energized equipment.

17.3.5.1 Vehicle and Equipment Clearance

Any vehicle or mechanical equipment capable of having parts of its structure elevated near energized overhead lines must be operated so that a clearance of 10 feet is maintained. If the voltage of the overhead lines is higher than 50kV, the clearance must be increased by 4 inches for every 10kV over that voltage.

If any of the following discussed conditions occur, the clearance may be reduced.

- If the vehicle is in transit with its structure lowered, the clearance may be reduced to 4 ft. If the voltage is higher than 50kV, the clearance must be increased to 4 inches for every 10 kV over that voltage.
- If insulating barriers are installed to prevent contact with the lines, and if the barriers are rated for the voltage of the line being guarded and are not a part of or an attachment to the vehicle or its raised structure, the clearance may be reduced to a distance within the designed working dimensions of the insulating barrier.

Employees standing on the ground may not contact the vehicle or mechanical equipment or any of its attachments unless the employee is using protective equipment rated for the voltage, or the equipment is located so that no uninsulated part of its structure (that portion of the structure that provides a conductive path to employees on the ground) can come closer to the overhead line than permitted.

If any vehicle or mechanical equipment capable of having parts of its structure elevated near energized overhead lines is intentionally grounded, employees working on the ground near the point of grounding may not stand at the grounding location whenever there is a possibility of overhead line contact. Additional precautions, such as the use of barricades or insulation, must be taken to protect employees from hazardous ground potentials, depending on earth resistivity and fault currents, which can develop within the first few feet or more outward from the grounding point.

17.3.6 Trade Secret

Langan employees could potentially be provided trade secret information by the client or property owner when site-specific information is provided about highly hazardous chemicals. Trade secret means any confidential formula, pattern, process, device, information, or compilation of information that is used in an employer's business, and that allows the employer to obtain an advantage over competitors who do not know or use it. Langan employees understand that this

information should be kept confident and if required, may enter into a confidentiality agreement with the client.

17.3.7 Bloodborne Pathogens

Langan employees that can anticipate exposure to blood or other potentially infectious material while at work sites must have training in bloodborne pathogens. Applicable employees would include those trained in first aid and serving a designated role as an emergency medical care provider. Bloodborne pathogens are pathogenic microorganisms that are present in human blood and can cause disease in humans. These pathogens include but are not limited to, hepatitis B virus and human immunodeficiency virus.

17.3.7.1 Training

Langan employees with potential occupational exposure to blood or other potentially infectious material must participate in a training program. Training must be conducted prior to the initial assignment where there would be potential for exposure and annually thereafter within one year of previous training. The training program will be provided to Langan employees at no cost to them and during working hours.

Langan will ensure the training program must consist of the following:

- An accessible copy of the regulatory text of 29 CFR 1910.1030 and an explanation of its contents.
- A general explanation of the epidemiology and symptoms of bloodborne diseases.
- An explanation of the modes of transmission of bloodborne pathogens.
- An explanation of Langan's exposure control plan and how the employee can obtain a copy of the written plan.
- An explanation of the appropriate methods for recognizing tasks and other activities that may involve exposure to blood and other potentially infectious materials.
- An explanation of the use and limitations of personal protective equipment (PPE) to prevent and reduce exposure.
- Information on the types, proper use, location, removal, handling, and disposal of PPE.
- An explanation of the basis for the selection of PPE.
- Information on the hepatitis B vaccine, including information on its efficacy, safety, method of administration, the benefits of being vaccinated, and that the vaccine and vaccination will be offered free of charge.
- Information on the appropriate actions to take and persons to contact in an emergency involving blood or other potentially infectious materials.
- An explanation of the procedure to follow if an exposure incident occurs, including the method of reporting the incident and the medical follow-up that will be made available.

- Information on the post-exposure evaluation and determining whether the employer is required to provide for the employee following an exposure incident.
- An explanation of the signs and labels and/or color coding required by paragraph 29 CFR 1910.1030(g)(1); and
- An opportunity for interactive questions and answers with the person conducting the training session.

Langan will develop and implement a written Exposure Control Plan, which will be designed to eliminate or minimize employee exposure to bloodborne pathogens. The Exposure Control Plan will contain the following elements:

- An exposure determination for employees.
- The schedule and method of implementation for Methods of Compliance (29 CFR 191.1030(d)), Hepatitis B Vaccination and Post-Exposure Evaluation and Follow-up (29 CFR 1910.1030(f)), Communication of Hazards to Employees (29 CFR 1910.1030(g)) and (h) Recordkeeping (29 CFR 1910.1030(h)).
- The procedure for the evaluation of circumstances surrounding exposure incidents.
- Ensure a copy of the Exposure Control Plan will be accessible to employees; and,
- The Exposure Control Plan must be reviewed and updated at least annually.

Langan employees with occupational exposure to bloodborne pathogens include any employees trained in first aid that would be expected to provide emergency medical care. This determination is made without regard to the use of PPE, which could eliminate or minimize exposure.

Universal precautions must be observed to prevent contact with blood or other potentially infectious materials. According to the concept of Universal Precautions, all human blood and certain human body fluids are treated as if known to be infectious for bloodborne pathogens. Under circumstances in which differentiation between body fluid types is difficult or impossible, all body fluids must be considered potentially infectious materials.

Work practice controls must be used to eliminate or minimize employee exposure, if applicable. Since Langan employees will have occupational exposure only during the rendering of first aid, personnel protective equipment will be utilized to reduce or minimize exposure. PPE that could be available to Langan personnel when administering first aid includes safety glasses, gloves, and Tyvek suits or sleeves. PPE and first aid kits will be provided to employees at no cost to them.

Langan employees that render first aid in office areas will have access to hand-washing facilities or restrooms. For first aid rendered at field locations, first aid kits will contain an appropriate antiseptic hand cleanser and clean cloth/paper towels or antiseptic towelettes. After using

antiseptic hand cleansers or towelettes, employees must wash their hands with soap and running water as soon as feasible.

After administering first aid, potentially infectious materials, including towels, personnel protective equipment, clothes, and bandages, must be placed in a container, which prevents leakage during collection, handling, processing, storage, transport, or shipping. All PPE will be disposed of after use. Any equipment or working surfaces which was been exposed to blood or potentially infectious materials due to an injury will be decontaminated prior to reuse.

Langan will make available the hepatitis B vaccine and vaccination series to all employees who have occupational exposure, and post-exposure evaluation and follow-up to all employees who have had an exposure incident. These services will be available to the employee at no cost to them through a medical provider.

17.3.7.2 Recordkeeping

Langan will maintain training and medical records for each employee with occupational exposure to blood or potentially infectious materials. Medical and training records will be maintained by Langan's H&S Department.

Training records will include the following:

- Dates of the training sessions.
- Contents or a summary of the training sessions.
- Names and qualifications of persons conducting the training; and
- Names and job titles of all persons attending the training sessions.

Training records must be maintained for 3 years from the date on which the training occurred. Medical records will be preserved and maintained for the duration of employment plus 30 years.

All records will be made available upon request to employees, the Assistant Secretary of Labor for Occupational Safety and Health, and the Director of the National Institute for Occupational Safety and Health Director of OSHA for examination and copying. Medical records must have written consent from the employee before releasing.

If Langan ceases to do business, all records must be transferred to the successor employer. The successor employer must receive and maintain these records.

If there will not be a successor, Langan will notify current employees of their rights to access records at least three months prior to the cessation of business.

18.0 RECORDKEEPING

The following is a summary of required health and safety logs, reports, and recordkeeping.

18.1 Field Change Authorization Request

Any changes to the work to be performed that are not included in the HASP will require an addendum that is approved by the Langan project manager and Langan HSM to be prepared. Approved changes will be reviewed with all field personnel at a safety briefing.

18.2 Medical and Training Records

Copies or verification of training (40-hour, 8-hour, supervisor, site-specific training, documentation of three-day on-the-job training (OJT)), and respirator fit-test records) and medical clearance for site work and respirator use will be maintained in the office and available upon request. Records for all subcontractor employees must also be available upon request. All employee medical records will be maintained by the HSM.

18.3 Onsite Log

A log of personnel on-site each day will be kept by the HSO or designee.

18.4 Daily Safety Meetings ("Tailgate Talks")

Completed safety briefing forms will be maintained by the HSO.

18.5 Exposure Records

All personal monitoring results, laboratory reports, calculations, and air sampling data sheets are part of an employee exposure record. These records will be maintained by the HSO during site work. At the end of the project, they will be maintained according to 29 CFR 1910.1020.

18.6 Hazard Communication Program/MSDS-SDS

Material safety data sheets (MSDS) Safety Data Sheets (SDS) have been obtained for applicable substances and are included in this HASP (Attachment D). Langan's written hazard communication program, in compliance with 29 CFR 1910.1200, is maintained by the HSM.

18.7 Documentation

Immediately following an incident or near miss, unless emergency medical treatment is required, either the employee or a coworker must contact the Langan incident/injury hotline at 1-800-952-6426, extension 4699, and the Project Manager to report the incident or near miss. The Project Manager will contact the client or client representative. A written report must be completed and

submitted HSM within 24 hours of the incident. For emergencies involving personnel injury and/or exposure, the employee will complete and submit the Langan incident/injury report to the Langan corporate health and safety manager as soon as possible following the incident. Accidents will be investigated in-depth to identify all causes and to recommend hazard control measures.

18.7.1 Accident and Injury Report Forms

18.7.1.1 Accident/Incident Report

All injuries, no matter how slight, must be reported to the FTL and the PM immediately. The accident/incident report forms, attached in Attachment C, will be filled out on all accidents by the applicable contractor supervision personnel, the FTL, or the HSO. Copies of all accident/incident reports must be kept on-site and available for review. Project personnel will be instructed on the location of the first aid station, hospital, and doctor and ambulance service near the job. The emergency telephone numbers will be conspicuously posted in site vehicles near the work zone. First aid supplies will be centrally located and conspicuously posted between restricted and nonrestricted areas to be readily accessible to all on the site.

18.7.1.2 First Aid Treatment Record

The forms will be used for recording all non-lost time injuries treated by the project first-aid attendant, the local physician or hospital will be entered in detail on this record. "Minor" treatment of scratches, cuts, etc. will receive the same recording attention as treatment of more severe injuries.

18.7.1.3 OSHA Form 300

An OSHA Form 300 will be kept at the Langan Corporate Office in Parsippany, New Jersey. All recordable injuries or illnesses will be recorded on this form. Subcontractor employers must also meet the requirements of maintaining an OSHA 300 form. The Incident Report form used to capture the details of work-related injuries/illnesses meets the requirements of the OSHA Form 301 (supplemental record) and must be maintained with the OSHA Form 300 for all recordable injuries or illnesses. Forms for recording OSHA work-related injuries and illnesses are included in Attachment C.

19.0 CONFINED SPACE ENTRY

Confined spaces are not anticipated at the Site during planned construction activities. If confined spaces are identified, the contractor must implement their own confined space program that all

applicable federal, state, and local regulations. Confined spaces **will not** be entered by Langan personnel.

20.0 HASP ACKNOWLEDGEMENT FORM

All Langan personnel and contractors will sign this HASP Compliance Agreement indicating that they have become familiar with this HASP and that they understand it and agree to abide by it.

Printed Name	Signature	Company	Date

TABLES

TABLE 1
TASK HAZARD ANALYSES

Task	Hazard	Description	Control Measures	First Aid
1.3.1 – 1.3.12	Contaminated Soil or Groundwater-Dermal Contact	Contaminated water spills on skin, splashes in eyes; contact with contaminated soil/fill during construction activities or sampling.	Wear proper PPE; follow safe practices, maintain safe distance from construction activities	See Table 2, seek medical attention as required
1.3.1 – 1.3.12	Lacerations, abrasions, punctures	Cutting bailer twine, pump tubing, acetate liners, etc. with knife; cuts from sharp site objects or previously cut piles, tanks, etc.; Using tools in tight spaces	Wear proper PPE; follow safe practices	Clean wound, apply pressure and/or bandages; seek medical attention as required.
1.3.1 – 1.3.12	Contaminated Media Inhalation	Opening drums, tanks, wells; vapors for non-aqueous phase liquids or other contaminated site media; dust inhalation during excavation; vapor accumulation in excavation	Follow air monitoring plan; have quick access to respirator, do not move or open unlabeled drums found at the site, maintain safe distance from construction activities	See Table 2, seek medical attention as required
1.3.1 – 1.3.12	Lifting	Improper lifting/carrying of equipment and materials causing strains	Follow safe lifting techniques. Langan employees are not to carry contractor equipment or materials	Rest, ice, compression, elevation; seek medical attention as required
1.3.1 – 1.3.12	Slips, trips, and falls	Slips, trips, and falls due to uneven surfaces, cords, steep slopes, debris, and equipment in work areas	Good housekeeping at site; constant awareness and focus on the task; avoid climbing on stockpiles; maintain safe distance from construction activities and excavations; avoid elevated areas over six feet unless fully accredited in fall protection and wearing an approved fall protection safety apparatus	Rest, ice, compression, elevation; seek medical attention as required
1.3.1 – 1.3.12	Noise	Excavation equipment, hand tools, drilling equipment.	Wear hearing protection; maintain safe distance from construction activities	Seek medical attention as required
1.3.1 – 1.3.12	Falling objects	Soil material, tools, etc. dropping from drill rigs, front-end loaders, etc.	Hard hats to be worn at all times while in work zones; maintain safe distance from construction activities and excavations	Seek medical attention as required
1.3.1 – 1.3.12	Underground/ overhead utilities	Excavation equipment, drill rig auger contacts underground object; boom touches overhead utility	"One Call" before dig; follow safe practices; confirm utility locations with contractor; wear proper PPE; maintain safe distance from construction activities and excavations	Seek medical attention as required
1.3.1 – 1.3.12	Insects (bees, wasps, hornet, mosquitoes, and spider)	Sings, bites	Insect Repellent; wear proper protective clothing (work boots, socks, and light-colored pants); field personnel who may have insect allergies (e.g., bee sting) should provide this information to the HSO or FSO prior to commencing work and will have allergy medication on site.	Seek medical attention as required
1.3.1 – 1.3.12	Vehicle traffic / Heavy Equipment Operation	Vehicles unable to see workers on site, operation of heavy equipment in tight spaces, equipment failure, malfunctioning alarms	Wear proper PPE, especially visibility vest; use a buddy system to look for traffic; rope off area of work with cones and caution tape or devices at points of hazard, maintain safe distance from construction activities and equipment	Seek medical attention as required

TABLE 2
CONTAMINANT HAZARDS OF CONCERN

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	1,1-Dichloroethane Asymmetrical dichloroethane Ethylidene chloride 1,1-Ethylidene dichloride 1,1-DCA	75-34-3	PID	100 ppm 3000 ppm	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the skin; central nervous system depression; liver, kidney, lung damage	Eye: Irrigate immediately Skin: Soap flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	1,2,4-Trimethylbenzene	95-63-6	PID	None None	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat, respiratory system; bronchitis; hypochromic anemia; headache, drowsiness, lassitude (weakness, exhaustion), dizziness, nausea, incoordination; vomiting, confusion; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	1,2-Dichlorobenzene o-DCB	95-50-1	PID	50 ppm 200 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eye, swelling periorbital (situated around the eye); profuse rhinitis; headache, anorexia, nausea, vomiting; weight loss, jaundice, cirrhosis; in animals: liver, kidney injury; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	1,2-Dichloroethane Ethylene dichloride 1,2-DCA DCE[1] Ethane dichloride Dutch liquid, Dutch oil Freon 150 Glycol dichloride	107-06-2	PID	1 ppm 50 ppm	Groundwater Soil Vapor	inhalation, ingestion, skin absorption, skin, and/or eye contact	irritation to the eyes, corneal opacity; central nervous system depression; nausea, vomiting; dermatitis; liver, kidney, cardiovascular system damage; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	1,3,5-Trimethylbenzene Mesitylene sym-Trimethylbenzene	108-67-8	PID	None None	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat, respiratory system; bronchitis; hypochromic anemia; headache, drowsiness, lassitude (weakness, exhaustion), dizziness, nausea, incoordination; vomiting, confusion; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	1,3-Dichlorobenzene m-Dichlorobenzol; m-Phenylene dichloride m-dichlorobenzene m-DCB	541-73-1	PID	None None	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, swelling periorbital (situated around the eye); profuse rhinitis; headache, anorexia, nausea, vomiting; weight loss, jaundice, cirrhosis; in animals: liver, kidney injury; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	1,4-Dichlorobenzene para-Dichlorobenzene p-Dichlorobenzene 1,4-Dichlorobenzene 1,4-DCB para-Dichlorobenzene p-Dichlorobenzene p-DCB PDB Paramoth Para crystals Paracide Dichlorocide	106-46-7	PID	75 ppm 150 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, swelling periorbital (situated around the eye); profuse rhinitis; headache, anorexia, nausea, vomiting; weight loss, jaundice, cirrhosis; in animals: liver, kidney injury; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	1,4-Dioxane 1,4-Dioxacyclohexane [1,4]Dioxane p-Dioxane [6]-crown-2 Diethylene dioxide Diethylene ether Dioxan Dioxane 1,4-Dioxane	123-91-1	PID	100 ppm 500 ppm	Groundwater Soil Vapor	Inhalation, ingestion, skin, and/or eye contact	Irritant to eyes, skin, mucous membranes, and respiratory system. May be harmful by ingestion, skin absorption and inhalation	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	2-Butanone Ethyl methyl ketone MEK Methyl acetone Methyl ethyl ketone	78-93-3	PID	200 ppm 3000 ppm	Soil Groundwater Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose; headache; dizziness; vomiting; dermatitis	Eye: Irrigate immediately Skin: Water wash immediately Breathing: Fresh air Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	4,4'-DDD Dichlorodiphenyldichloroethane 1,1'-(2,2-Dichloroethylidene)bis (4-chlorobenzene) p,p'-DDD	72-54-8	None	NA NA	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; paresthesia tongue, lips, face; tremor; anxiety, dizziness, confusion, malaise (vague feeling of discomfort), headache, lassitude (weakness, exhaustion); convulsions; paresis hands; vomiting; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Acenaphthene 1,2-Dihydroacenaphthylene 1,8-Ethylenenaphthalene peri-Ethylenenaphthalene Naphthyleneethylene Tricyclododecapentaene	83-32-9	PID	NA NA	Soil	inhalation, ingestion, skin, and/or eye contact,	irritation to the skin, eyes, mucous membranes, and upper respiratory tract; If ingested, it can cause vomiting	Eye: Irrigate immediately Skin: Soap wash immediately, if redness or irritation develop, seek medical attention immediately Breathing: Move to fresh air Swallow: do not induce vomiting, seek medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Acenaphthylene Cycopental(de)naphthalene, Acenaphthalene	208-96-8	PID	NA NA	Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the skin, eyes, mucous membranes, and upper respiratory tract	Eye: Irrigate immediately, seek medical attention immediately, Skin: Soap wash immediately, if redness or irritation develop, seek medical attention immediately Breathing: Move to fresh air Swallow: do not induce vomiting, seek medical attention immediately
1.3.1 – 1.3.12	Acetone Dimethyl ketone Ketone propane 2-Propanone	67-64-1	PID	1000 ppm 2500 ppm	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, nose, throat; headache, dizziness, central nervous system depression; dermatitis	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Aldrin 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-endo-1,4-exo-5,8-dimethanonaphthalene HHDN Octalene	309-00-2	PID	0.25 ppm 5 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	headache, dizziness; nausea, vomiting, malaise (vague feeling of discomfort); myoclonic jerks of limbs; colonic, tonic convulsions; coma; hematuria (blood in the urine), azotemia; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Alpha-BHC alpha-Hexachlorocyclohexane -alpha,2-alpha,3-beta,4-alpha,5-beta,6-beta-Hexachlorocyclohexane alpha-1,2,3,4,5,6-Hexachlorocyclohexane alpha-Benzenehexachloride α-1,2,3,4,5,6-hexachlorocyclohexane α-HCH α-Benzenehexachloride alpha-hexacloran(e) alpha-Lindane Alpha Hexachlorocyclohexane	319-84-6	PID	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane possible carcinogenic, effects to liver, blood, and central nervous system	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Alpha-Chlordane Alpha Chlordane a-Chlordane	5103-71-9	None	0.5 mg/m^3 100 mg/m^3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	Blurred vision; confusion; ataxia, delirium; cough; abdominal pain, nausea, vomiting, diarrhea; irritability, tremor, convulsions; anuria	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Aluminum	7429-90-5	None	0.5 mg/m3 50 mg/m3	Soil	inhalation, skin, and/or eye contact	irritation to the eyes, skin, respiratory system	Eye: Irrigate immediately Breathing: Fresh air

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Ammonia Nitrogen, Ammonia	7664-41-7	None	50 ppm 300 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, respiratory system	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Anthracene	120-12-7	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	irritation to the skin, eyes, mucous membranes, and upper respiratory tract, abdominal pain if ingested.	Eye: Irrigate immediately, seek medical attention immediately, Skin: Soap wash immediately, Breathing: Move to fresh air, refer to medical attention. Swallow: refer to medical attention
1.3.1 – 1.3.12	Antimony	7440-36-0	None	0.5 mg/m^3 50 mg/m^3	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation skin, dermatitis; resp distress; diarrhea; muscle tremor, convulsions; possible gastrointestinal tract	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Arsenic	NA	None	0.5 mg/m^3 NA	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation skin, dermatitis; resp distress; diarrhea; muscle tremor, convulsions; possible gastrointestinal tract	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Barium	10022-31-8	None	0.5 mg/m^3 50 mg/m^3	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, upper respiratory system; skin, burns; gastroenteritis; muscle spasm; slow pulse	Eye: Irrigate immediately Skin: Water flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Benzene Benzol Phenyl hydride Alkyl benzene isomers	71-43-2	PID	3.19 mg/m^3 1,595 mg/mg^3	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, respiratory system; dizziness; headache, nausea, staggered gait; lassitude (weakness, exhaustion) [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Benzo(a)anthracene Benzanthracene Benzanthrene 1,2-Benzanthracene Benzo[b]phenanthrene Tetraphene	56-55-3	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Groundwater Soil	inhalation, skin, or eye contact, ingestion	dermatitis, bronchitis, [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Benzo(a)pyrene	50-32-8	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	dermatitis, bronchitis, [potential occupational carcinogen]	Eye: Irrigate immediately, seek medical attention Skin: Soap wash immediately. Breathing: move to fresh air. Swallow: Induce vomiting if conscious, seek medical attention immediately
1.3.1 – 1.3.12	Benzo(b)fluoranthene	205-99-2	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.12	Benzo(g,h,i)perylene Benzo(ghi)perylene	191-24-2	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Benzo(k)fluoranthene	207-08-9	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.12	Beryllium	7440-41-7	None	0.002 mg/m^3 4 mg/m^3	Soil	inhalation, skin, and/or eye contact	berylliosis (chronic exposure): anorexia, weight loss, lassitude (weakness, exhaustion), chest pain, cough, clubbing of fingers, cyanosis, pulmonary insufficiency; irritation to the eyes; dermatitis; [potential occupational carcinogen]	Eye: Irrigate immediately Breathing: Fresh air
1.3.1 – 1.3.12	Beta BHC Beta Hexachlorocyclohexane 1-alpha,2-beta,3-alpha,4-beta,5-alpha,6-beta-Hexachlorocyclohexane beta-1,2,3,4,5,6-Hexachlorocyclohexane Beta-BHC	319-85-7	None	NA NA	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; paresthesia tongue, lips, face; tremor; anxiety, dizziness, confusion, malaise (vague feeling of discomfort), headache, lassitude (weakness, exhaustion); convulsions; paresis hands; vomiting; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Beta-Endosulfan Beta Endosulfan Endosulfan II (beta) Endosulfan II	33213-65-9	None	None	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation skin; nausea, confusion, agitation, flushing, dry mouth, tremor, convulsions, headache; in animals: kidney, liver injury; decreased testis weight
1.3.1 – 1.3.12	Bromide	24959-67-9	None	0.1 ppm 3 ppm	Groundwater	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, respiratory system	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Cadmium	7440-43-9	None	0.005 mg/m^3 9 mg/m^3	Soil	inhalation, ingestion	pulmonary edema, dyspnea (breathing difficulty), cough, chest tightness, substernal (occurring beneath the sternum) pain; headache; chills, muscle aches; nausea, vomiting, diarrhea; anosmia (loss of the sense of smell), emphysema, proteinuria, mild anemia; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Calcium	7440-70-2	None	NA	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, upper resp tract; ulcer, perforation nasal septum; pneumonitis; dermatitis	Eye: Irrigate immediately Skin: Water flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Carbon disulfide	75-15-0	PID	20 ppm 500 ppm	Soil Groundwater Vapor	inhalation, skin, or eye contact, ingestion	irritation to the eyes, skin, respiratory system	Eye: Irrigate immediately (liquid) Skin: Water flush immediately (liquid) Breathing: Respiratory support
1.3.1 – 1.3.12	Carbon tetrachloride Carbon chloride Carbon tet Freon® 10 Halon® 104 Tetrachloromethane	56-23-5	PID	10 ppm 200 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; central nervous system depression; nausea, vomiting; liver, kidney injury; drowsiness, dizziness, incoordination; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Chlordane Chlordan Chlordano 1,2,4,5,6,7,8,8-Octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindane Total Chlordane	57-74-9	None	0.5 mg/m^3 100 mg/m^3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	Blurred vision; confusion; ataxia, delirium; cough; abdominal pain, nausea, vomiting, diarrhea; irritability, tremor, convulsions; anuria	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Chloride	16887-00-6	None	1 ppm 10 ppm	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, respiratory system	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Chlorobenzene benzene chloride monochlorobenzene Phenyl chloride Chlorobenzol MCB	108-90-7	PID	75 ppm 1000 ppm	Groundwater Soil Vapor	inhalation, skin, or eye contact, ingestion	irritation to the eyes, skin, nose; drowsiness, incoordination; central nervous system depression; in animals: liver, lung, kidney injury	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Chloroform Methane trichloride Trichloromethane Chloro-3-methyl phenol	67-66-3	None	50 ppm 500 ppm	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; dizziness, mental dullness, nausea, confusion; headache, lassitude (weakness, exhaustion); anesthesia; enlarged liver; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Chromium Total Chromium Chromium, Total	7440-47-3	None	1.0 mg/m^3 250 mg/m^3	Groundwater Soil	inhalation absorption ingestion	irritation to eye, skin, and respiratory	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Chrysene Benzo[a]phenanthrene 1,2-Benzphenanthrene	218-01-9	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Groundwater Soil	inhalation, absorption, ingestion, consumption	irritation to eye, skin, and respiratory, gastrointestinal irritation nausea, vomit, diarrhea [potential occupational carcinogen]	Eyes: Irrigate immediately Skin: Soap wash promptly. Breath: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	cis-1,2-Dichloroethylene cis-1,2-Dichloroethene	156-59-2	NA	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	Irritant to eyes, skin, mucous membranes, and respiratory system. May be harmful by ingestion, skin absorption and inhalation	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Cobalt	7440-48-4	None	0.1mg/m^3 20 mg/m^3	Soil	inhalation, ingestion, skin, and/or eye contact	Cough, dyspnea (breathing difficulty), wheezing, decreased pulmonary function; weight loss; dermatitis; diffuse nodular fibrosis; resp hypersensitivity, asthma	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Copper	7440-50-8	None	1.0 mg/m^3 100 mg/m^3	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, nose, metallic taste; dermatitis; anemia	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Cyanide	57-12-5	None	5 mg/m^3 25 mg/m^3	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	Exposure to cyanide can cause weakness, headaches, confusion, dizziness, fatigue, anxiety, sleepiness, nausea and vomiting. Breathing can speed up then become slow and gasping. Coma, and convulsions also occur. If copious amounts of cyanide have been absorbed by the body, the person usually collapses, and death can occur very quickly. Long-term exposure to lower levels of cyanide can cause skin, and nose irritation, itching, rashes and thyroid changes.	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	DDE 4,4-DDE 4,4'-DDE 1,1-bis-(4-chlorophenyl)-2,2-dichloroethene Dichlorodiphenyldichloroethylene p,p'-DDE	72-55-9	None	NA NA	Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	Oral ingestion of food is the primary source of exposure for the general population. Acute and chronic ingestion may cause nausea, vomiting, diarrhea, stomach pain, headache, dizziness, disorientation, tingling, sensation, kidney damage, liver damage, convulsions, coma, and death. 4,4' DDE may cross the placenta and can be excreted in breast milk	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	DDT 4,4-DDT 4,4′-DDT p,p′-DDT Dichlorodiphenyltrichloroethane 1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane	50-29-3	None	1 mg/m^3 500 mg/m^3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; paresthesia tongue, lips, face; tremor; anxiety, dizziness, confusion, malaise (vague feeling of discomfort), headache, lassitude (weakness, exhaustion); convulsions; paresis hands; vomiting; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Delta BHC Delta-BHC Delta-hexachlorocyclohexane Delta Hexachlorocyclohexane	319-86-8	None	0.5 mg/m^3 50 mg/m^3	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; headache; nausea; colonic convulsions; resp difficulty; cyanosis; aplastic anemia; muscle spasm; in animals: liver, kidney damage	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Dibenz(a,h)anthracene Dibenzo(a,h)anthracene Dibenzo[a,h]anthracene	53-70-3	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Groundwater Soil	inhalation, absorption, ingestion, consumption	irritation to eyes, skin, respiratory, and digestion [potential occupational carcinogen]	Eyes: Irrigate immediately Skin: Soap wash promptly. Breath: Respiratory support PID Swallow: Medical attention immediately
1.3.1 – 1.3.12	Dibenzofuran	132-64-9	None	NA NA	Soil	inhalation, absorption	irritation to eyes, and skin	Eyes: Irrigate immediately Skin: Soap wash promptly.

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Dieldrin HEOD 1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo exo-5,8-dimethanonaphthalene	60-57-1	PID	0.25 mg/m^3 50 mg/m^3	Groundwater Soil Water	inhalation, skin absorption, ingestion, skin, and/or eye contact	headache, dizziness; nausea, vomiting, malaise (vague feeling of discomfort), sweating; myoclonic limb jerks; colonic, tonic convulsions; coma; [potential occupational carcinogen]; in animals: liver, kidney damage	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Diesel Fuel automotive diesel fuel oil No. 2 distillate diesoline diesel oil diesel oil light diesel oil No. 1-D summer diesel	68334-30-5	PID	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; burning sensation in chest; headache, nausea, lassitude (weakness, exhaustion), restlessness, incoordination, confusion, drowsiness; vomiting, diarrhea; dermatitis; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Endosulfan I Alpha Endosulfan	959-98-8	None	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation skin; nausea, confusion, agitation, flushing, dry mouth, tremor, convulsions, headache; in animals: kidney, liver injury; decreased testis weight	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Endosulfan sulfate 1,4,5,6,7,7-Hexachloro-5-norbornene-2,3-dimethanol, cyclic sulfate 6,7,8,9,10,10-hexachloro01,5,5a,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3,3-dioxide	1031-07-8	None	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	Hypersensitive to stimulation, sensation of prickling, tingling, or creeping on skin. Headache, dizziness, nausea, vomiting, incoordination, tremor, mental confusion, hyperexcitable state. In severe cases: convulsions, seizures, coma, and respiratory depression.	Eye: Irrigate immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Endrin 1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo,endo-5,8-dimethanonaphthalene; Hexadrin	72-20-8	None	0.1 mg/m^3 2 mg/m^3	Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	epileptiform convulsions; stupor, headache, dizziness; abdominal discomfort, nausea, vomiting; insomnia; aggressiveness, confusion; drowsiness, lassitude (weakness, exhaustion); anorexia; in animals: liver damage	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Ethyl benzene Ethylbenzene Ethylbenzol Phenylethane	100-41-4	PID	435 mg/m^3 3,472 mg/m^3	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; headache; dermatitis; narcosis, coma	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Fluoranthene Benzo(j,k)fluorene	206-44-0	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Groundwater Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.12	Fluorene	86-73-7	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention
1.3.1 – 1.3.12	Fuel Oil No. 2	68476-30-2	PID	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; burning sensation in chest; headache, nausea, lassitude (weakness, exhaustion), restlessness, incoordination, confusion, drowsiness; vomiting, diarrhea; dermatitis; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	gamma-Chlordane Gamma Chlordane y-Chlordane	5566-34-7	None	0.5 mg/m^3 100 mg/m^3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	Blurred vision; confusion; ataxia, delirium; cough; abdominal pain, nausea, vomiting, diarrhea; irritability, tremor, convulsions; anuria	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Gasoline	8006-61-9	PID	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; dermatitis; headache, lassitude (weakness, exhaustion), blurred vision, dizziness, slurred speech, confusion, convulsions; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Helium	7440-59-7	Helium Detector	NA NA	NA	inhalation	dizziness, headache, and nausea	Breathing: Respiratory support
1.3.1 – 1.3.12	Heptachlor	76-44-8	None	0.5 mg/m^3 35 mg/m^3	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	In animals: tremor, convulsions; liver damage; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Hexachlorobenzene Perchlorobenzene Pentachlorophenylchloride Benzene hexachloride Phenyl perchloryl HCB BHC	118-74-1	NA	NA NA	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	Irritating to eyes, skin, and mucous membranes. Prolonged periods of ingestion may cause cutaneous porphyria	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Hexavalent Chromium Chromium VI Chromium, Hexavalent	18540-29-9	None	1.0 mg/m^3 250 mg/m^3	Groundwater Soil	inhalation absorption ingestion	irritation to eye, skin, and respiratory	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Indeno(1,2,3-cd)pyrene Indeno(1,2,3-c,d)Pyrene Indeno[1,2,3-cd]Pyrene	193-39-5	None	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Groundwater Soil	inhalation, absorption, ingestion, consumption	irritation to eyes, skin, respiratory, and digestion [potential occupational carcinogen]	Eyes: Irrigate immediately Skin: Soap wash promptly. Breath: Respiratory support Swallow: Medical attention immediately, wash mouth with water
1.3.1 – 1.3.12	Iron	7439-89-6	None	10 mg/m^3 NA	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; abdominal pain, diarrhea, vomiting	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Lead	7439-92-1	None	0.050 mg/m^3 100 mg/m^3	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	lassitude (weakness, exhaustion), insomnia; facial pallor; anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; paralysis wrist, ankles; encephalopathy; kidney disease; irritation to the eyes; hypertension	Eye: Irrigate immediately Skin: Soap flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Lindane Gamma BHC HCH ã-Hexachlorocyclohexane gamma isomer of 1,2,3,4,5,6-Hexachlorocyclohexane gamma-Hexachlorocyclohexane	58-89-9	None	0.5 mg/m^3 50 mg/m^3	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; headache; nausea; colonic convulsions; resp difficulty; cyanosis; aplastic anemia; muscle spasm; in animals: liver, kidney damage	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Magnesium	7439-95-4	None	15 mg/m^3 NA	Soil	inhalation, skin, and/or eye contact	irritation to the eyes, skin, respiratory system; cough	Eye: Irrigate immediately Breathing: Fresh air
1.3.1 – 1.3.12	Manganese	7439-96-5	None	5 mg/m^3 500 mg/m^3	Groundwater Soil	inhalation, ingestion	aerosol is irritating to the respiratory tract	Eye: Irrigate immediately Skin: Soap flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	m-Cresol meta-Cresol 3-Cresol m-Cresylic acid 1-Hydroxy-3-methylbenzene 3-Hydroxytoluene 3-Methylphenol 3-Methylphenols	108-39-4	PID	5 ppm 250 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; central nervous system effects: confusion, depression, resp failure; dyspnea (breathing difficulty), irregular rapid respiration, weak pulse; eye, skin, burns; dermatitis; lung, liver, kidney, pancreas damage	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Mercury	7439-97-6	None	0.1 mg/m^3 10 mg/m^3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor, insomnia, irritability, headache, lassitude (weakness, exhaustion); stomatitis, salivation; gastrointestinal disturbance, anorexia, weight loss; proteinuria	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Methane Tetrahydridocarbon Carbane Marsh Gas Natural Gas Carbon tetrahydride Hydrogen carbide	74-82-8	PID	NA NA	Groundwater Soil Vapor	inhalation, skin, and/or eye contact (liquid)	dizziness, confusion, excitation, asphyxia; liquid: frostbite	Eye: Frostbite Skin: Frostbite Breathing: Respiratory support
1.3.1 – 1.3.12	Methyl chloroform Chlorothene 1,1,1-Trichloroethane 1,1,1-Trichloroethane-(stabilized) 1,1,1-TCA 1,1,1-Trichbroethane TCA	71-55-6	PID	350 ppm 700 ppm	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin; headache, lassitude (weakness, exhaustion), central nervous system depression, poor equilibrium; dermatitis; cardiac arrhythmias; liver damage	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Methyl *tert*-butyl ether MTBE Methyl tertiary-butyl ether Methyl t-butyl ether tert-Butyl methyl ether tBME tert-BuOMe Methyl tert butyl ether	1634-04-4	PID	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; burning sensation in chest; headache, nausea, lassitude (weakness, exhaustion), restlessness, incoordination, confusion, drowsiness; vomiting, diarrhea; dermatitis; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Methylene Chloride Dichloromethane Methylene dichloride	75-09-2	PID	25 ppm 2300 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; lassitude (weakness, exhaustion), drowsiness, dizziness; numb, tingle limbs; nausea; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Naphthalene Naphthalin Tar camphor White tar	91-20-3	PID	50 mg/m^3 250 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes; headache, confusion, excitement, malaise (vague feeling of discomfort); nausea, vomiting, abdominal pain; irritation bladder; profuse sweating; hematuria (blood in the urine); dermatitis, optical neuritis	Eye: Irrigate immediately Skin: Molten flush immediately/solid-liquid soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	n-Butylbenzene Butylbenzene 1-phenylbutane	104-51-8	PID	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin; dry nose, throat; headache; low blood pressure, tachycardia, abnormal cardiovascular system stress; central nervous system, hematopoietic depression; metallic taste; liver, kidney injury	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Nickel	7440-02-0	None	NA 10 mg/m^3	Groundwater Soil	ion, ingestion, skin, and/or eye contact	sensitization dermatitis, allergic asthma, pneumonitis; [potential occupational carcinogen]	Skin: Water flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Nitrate	14797-55-8	None	NA NA	Groundwater Soil	inhalation, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane	Eye: Irrigate immediately Skin: Soap wash Breathing: Fresh air
1.3.1 – 1.3.12	Nitrite dioxidonitrate	14797-65-0	None	NA NA	Groundwater	NA	NA	NA
1.3.1 – 1.3.12	Non-Flammable Gas Mixture CALGAS (Equipment Calibration Gas : Oxygen Methane Hydrogen Sulfide Carbon Monoxide Nitrogen	7782-44-7 74-82-8 7783-08-4 830-08-0 7727-37-9	Multi-Gas PID	NA/NA NA/NA 10/100 ppm 50/1200 ppm NA/NA	NA	inhalation	dizziness, headache, and nausea	Breathing: Respiratory support

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Non-Flammable Gas Mixture CALGAS (Equipment Calibration Gas : Oxygen Isobutylene Nitrogen	 7782-44-7 115-11-7 7727-37-9	PID	 NA/NA NA/NA NA/NA	NA	inhalation	dizziness, headache, and nausea	Breathing: Respiratory support
1.3.1 – 1.3.12	n-Propylbenzene Isocumene Propylbenzene 1-Phenylpropane 1-Propylbenzene Phenylpropane Propylbenzene-n	103-65-1	PID	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin; dry nose, throat; headache; low blood pressure, tachycardia, abnormal cardiovascular system stress; central nervous system, hematopoietic depression; metallic taste; liver, kidney injury	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	o-Cresol ortho-Cresol 2-Cresol o-Cresylic acid 1-Hydroxy-2-methylbenzene 2-Hydroxytoluene 2-Methyl phenol 2-Methylphenol	95-48-7	PID	5 ppm 250 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; central nervous system effects: confusion, depression, resp failure; dyspnea (breathing difficulty), irregular rapid respiration, weak pulse; eye, skin, burns; dermatitis; lung, liver, kidney, pancreas damage	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	p-Cresol para-Cresol 4-Cresol p-Cresylic acid 1-Hydroxy-4-methylbenzene 4-Hydroxytoluene 4-Methylphenol 4-Methylphenols	106-44-5	PID	5 ppm 250 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; central nervous system effects: confusion, depression, resp failure; dyspnea (breathing difficulty), irregular rapid respiration, weak pulse; eye, skin, burns; dermatitis; lung, liver, kidney, pancreas damage	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Pentachlorophenol PCP; Penta; 2,3,4,5,6-Pentachlorophenol	87-86-5	PID	0.5 mg/m^3 2.5 mg/m^3	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, nose, throat; sneezing, cough; lassitude (weakness, exhaustion), anorexia, weight loss; sweating; headache, dizziness; nausea, vomiting; dyspnea (breathing difficulty), chest pain; high fever; dermatitis	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Phenanthrene	85-01-8	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Groundwater Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Phenol Carbolic acid Hydroxybenzene, Monohydroxybenzene Phenyl alcohol Phenyl hydroxide	108-95-2	PID	5 ppm 250 ppm	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, nose, throat; anorexia, weight loss; lassitude (weakness, exhaustion), muscle ache, pain; dark urine, skin, burns; dermatitis; tremor, convulsions, twitching	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Potassium	7440-09-7	None	NA NA	Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact inhalation, ingestion, skin, and/or eye contact	eye: Causes eye burns. Skin: Causes skin, burns. Reacts with moisture in the skin, to form potassium hydroxide and hydrogen with heat. ingestion: Causes gastrointestinal tract burns. inhalation: May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. Causes chemical burns to the respiratory tract. inhalation may be fatal because of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema.	Eyes: Get medical aid immediately Skin: Get medical aid immediately. Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Ingestion: If victim is conscious and alert, give 2-4 full cups of milk or water. Get medical aid immediately. inhalation: Get medical aid immediately.

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Pyrene benzo[def]phenanthrene	129-00-0	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Groundwater Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.12	sec-Butylbenzene 2-phenylbutane	135-98-8	PID	10 ppm 100 ppm	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, nose, throat. inhalation: nausea or vomiting	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Selenium	7782-49-2	None	1 mg/m^3 0.2 mg/m^3	Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; visual disturbance; headache; chills, fever; dyspnea (breathing difficulty), bronchitis; metallic taste, garlic breath, gastrointestinal disturbance; dermatitis; eye, skin, burns; in animals: anemia; liver necrosis, cirrhosis; kidney, spleen damage	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Silver	7440-22-4	None	0.01mg/ m^3 10 mg/m^3	Soil	inhalation, ingestion, skin, and/or eye contact	blue-gray eyes, nasal septum, throat, skin; irritation, ulceration skin; gastrointestinal disturbance	Eye: Irrigate immediately Skin: Water flush Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Silvex 2-(2,4,5-Trichlorophenoxy)propionic acid Fenoprop 2,4,5-TP Acid 2,4,5-TP	93-72-1	PID	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, nose, respiratory system; headache, lassitude (weakness, exhaustion), dizziness, confusion, malaise (vague feeling of discomfort), drowsiness, unsteady gait; narcosis; defatting dermatitis; liver injury; reproductive effects	Eye: Irrigate immediately Skin: Water flush Breathing: Respiratory support Swallow: Medical attention
1.3.1 – 1.3.12	Sodium	7440-23-5	None	NA NA	Groundwater Soil	ion, ingestion, skin, and/or eye contact	sensitization dermatitis, allergic asthma, pneumonitis; [potential occupational carcinogen]	Skin: Water flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Sulfate	14808-79-8	None	NA NA	Groundwater Soil	inhalation, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane	Eye: Irrigate immediately Skin: Soap wash Breathing: Fresh air

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	tert-Butylbenzene *t*-Butylbenzene 2-Methyl-2-phenylpropane Pseudobutylbenzene	98-06-6	PID	10 ppm NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	eye, skin, irritation; dry nose, throat; headaches; low blood pressure, tachycardia; abnormal cardiovascular system; central nervous system depression; hematopoietic depression	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Tetrachloroethylene Perchlorethylene Perchloroethylene PCE Perk Tetrachlorethylene Tetrachloroethene	127-18-4	PID	100 ppm 150 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat, respiratory system; nausea; flush face, neck; dizziness, incoordination; headache, drowsiness; skin, erythema (skin, redness); liver damage; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Toluene Methyl benzene Methyl benzol Phenyl methane Toluol	108-88-3	PID	200 ppm 500 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, nose; lassitude (weakness, exhaustion), confusion, euphoria, dizziness, headache; dilated pupils, lacrimation (discharge of tears); anxiety, muscle fatigue, paresthesia; dermatitis	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Total Organic Carbon TOC	7732-18-5	NA	NA NA	Groundwater Soil Vapor	NA	NA	NA

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Total PCBs Chlorodiphenyl (42% chlorine) Aroclor® 1242 PCB Polychlorinated biphenyl	53469-21-9	None	0.5 mg/m^3 5 mg/m^3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, chloracne	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Total Xylenes Dimethylbenzene Xylol	1330-20-7	PID	100 ppm 900 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; dizziness, excitement, drowsiness, incoordination, staggering gait; corneal vacuolization; nausea, vomiting, abdominal pain; dermatitis	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Trans-1,2-Dichloroethene trans-1,2-Dichloroethylene tDEC trans-Acetylene dichloride	156-60-5	PID	200 ppm 4000 ppm	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	Irritant to eyes, skin, mucous membranes, and respiratory system. May be harmful by ingestion, skin absorption and inhalation	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Trichloroethylene Trichloroetheneylenes Ethylene trichloride TCE Trichloroethene Trilene	79-01-6	PID	100 ppm 1000 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; headache, visual disturbance, lassitude (weakness, exhaustion), dizziness, tremor, drowsiness, nausea, vomiting; dermatitis; cardiac arrhythmias, paresthesia; liver injury; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Trivalent Chromium Chromium III Chromium, Trivalent	NA	None	1.0 mg/m^3 250 mg/m^3	Groundwater Soil	inhalation absorption ingestion	irritation to eye, skin, and respiratory	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Vanadium	7440-62-2	None	0.1 mg/m3 15 mg/m3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	nausea, diarrhea, abdominal pain, vomiting; ptosis, strabismus; peri neuritis, tremor; retrosternal (occurring behind the sternum) tightness, chest pain, pulmonary edema; convulsions, chorea, psychosis; liver, kidney damage; alopecia; paresthesia legs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.12	Vinyl Chloride Chloroethene Chloroethylen Ethylene monochloride Monochloroethene Monochloroethylene VC Vinyl chloride monomer (VCM)	75-01-4	PID	1 ppm NA	Groundwater Soil Vapor	inhalation, skin, and/or eye contact (liquid)	lassitude (weakness, exhaustion); abdominal pain, gastrointestinal bleeding; enlarged liver; pallor or cyanosis of extremities; liquid: frostbite; [potential occupational carcinogen]	Eye: Frostbite Skin: Frostbite Breathing: Respiratory support
1.3.1 – 1.3.12	Vinylidene chloride 1,1-DCE 1,1-Dichloroethene 1,1-Dichloroethylene VDC Vinylidene chloride monomer Vinylidene dichloride	75-35-4	PID	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, throat; dizziness, headache, nausea, dyspnea (breathing difficulty); liver, kidney disturbance; pneumonitis; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.12	Zinc	7440-62-2	None	15 mg/m^3 500 mg/m^3	Groundwater Soil	inhalation	chills, muscle ache, nausea, fever, dry throat, cough; lassitude (weakness, exhaustion); metallic taste; headache; blurred vision; low back pain; vomiting; malaise (vague feeling of discomfort); chest tightness; dyspnea (breathing difficulty), rales, decreased pulmonary function	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

EXPLANATION OF ABBREVIATIONS

PID = Photoionization Detector
PEL = Permissible Exposure Limit (8-hour Time Weighted Average)
IDLH = Immediately Dangerous to Life and Health
ppm = part per million
mg/m^3 = milligrams per cubic meter
500 mg/m^3

TABLE 3
SUMMARY OF MONITORING EQUIPMENT

Instrument	Operation Parameters
Photoionization Detector (PID)	**Hazard Monitored:** Many organic and some inorganic gases and vapors. **Application:** Detects total concentration of many organic and some inorganic gases and vapors. Some identification of compounds is possible if more than one probe is measured. **Detection Method:** Ionizes molecules using UV radiation; produces a current that is proportional to the number of ions. **General Care/Maintenance:** Recharge or replace battery. Regularly clean lamp window. Regularly clean and maintain the instrument and accessories. **Typical Operating Time:** 10 hours. 5 hours with strip chart recorder.
Oxygen Meter	**Hazard Monitored:** Oxygen (O_2). **Application:** Measures the percentage of O_2 in the air. **Detection Method:** Uses an electrochemical sensor to measure the partial pressure of O_2 in the air and converts the reading to O_2 concentration. **General Care/Maintenance:** Replace detector cell according to manufacturer's recommendations. Recharge or replace batteries prior to explanation of the specified interval. If the ambient air is less than 0.5% C O_2, replace the detector cell frequently. **Typical Operating Time:** 8 – 12 hours.
Additional equipment (if needed, based on site conditions)	
Combustible Gas Indicator (CGI)	**Hazard Monitored:** Combustible gases and vapors. **Application:** Measures the concentration of combustible gas or vapor. **Detection Method:** A filament, usually made of platinum, is heated by burning the combustible gas or vapor. The increase in heat is measured. Gases and vapors are ionized in a flame. A current is produced in proportion to the number of carbon atoms present. **General Care/Maintenance:** Recharge or replace battery. Calibrate immediately before use. **Typical Operating Time:** Can be used for as long as the battery lasts, or for the recommended interval between calibrations, whichever is less.
Flame Ionization Detector (FID) with Gas Chromatography Option *(i.e., Foxboro Organic Vapor Analyzer (OVA))*	**Hazard Monitored:** Many organic gases and vapors (approved areas only). **Application:** In survey mode, detects the concentration of many organic gases and vapors. In gas chromatography (GC) mode, identifies and measures specific compounds. In survey mode, all the organic compounds are ionized and detected at the same time. In GC mode, volatile species are separated. **General Care/Maintenance:** Recharge or replace battery. Monitor fuel and/or combustion air supply gauges. Perform routine maintenance as described in the manual. Check for leaks. **Typical Operating Time:** 8 hours; 3 hours with strip chart recorder.
Potable Infrared (IR) Spectrophotometer	**Hazard Monitored:** Many gases and vapors. **Application:** Measures concentration of many gases and vapors in air. Designed to quantify one or two component mixtures. **Detection Method:** Passes different frequencies of IR through the sample. The frequencies absorbed are specific for each compound. **General Care/Maintenance:** As specified by the manufacturer.

Instrument	Operation Parameters
Direct Reading Colorimetric Indicator Tube	**Hazard Monitored:** Specific gas and vapors. **Application:** Measures concentration of specific gases and vapors. **Detection Method:** The compound reacts with the indicator chemical in the tube, producing a stain whose length or color change is proportional to the compound's concentration. **General Care/Maintenance:** Do not use a previously opened tube even if the indicator chemical is not stained. Check pump for leaks before and after use. Refrigerate before use to maintain a shelf life of about 2 years. Check expiration dates of tubes. Calibrate pump volume at least quarterly. Avoid rough handling which may cause channeling.
Aerosol Monitor	**Hazard Monitored:** Airborne particulate (dust, mist, fume) concentrations. **Application:** Measures total concentration of semi-volatile organic compounds, PCBs, and metals. **Detection Method:** Based on light-scattering properties of particulate matter. Using an internal pump, air sample is drawn into the sensing volume where near infrared light scattering is used to detect particles. **General Care/Maintenance:** As specified by the mfr. Also, the instrument must be calibrated with particulates of a size and refractive index similar to those to be measured in the ambient air.
Monitox	**Hazard Monitored:** Gases and vapors. **Application:** Measures specific gases and vapors. **Detection Method:** Electrochemical sensor specific for the chemical species in question. **General Care/Maintenance:** Moisten sponge before use; check the function switch; change the battery when needed.
Gamma Radiation Survey Instrument	**Hazard Monitored:** Gamma Radiation. **Application:** Environmental radiation monitor. **Detection Method:** Scintillation detector. **General Care/Maintenance:** Must be calibrated annually at a specialized facility. **Typical Operating Time:** Can be used for as long as the battery lasts, or for the recommended interval between calibrations, whichever is less.

TABLE 4
INSTRUMENTATION ACTION LEVELS

Photoionization Detector Action Levels	**Action Required**
Background to 5 parts per million (ppm)[1]	No respirator needed; no further action
>5ppm but </= 15 ppm at the perimeter of the work area	• Work temporarily halted and monitoring continues. • If instantaneous readings decrease below 5 ppm above background, work activities will resume with continued monitoring
>5ppm but </= 25 ppm at the downwind perimeter of the hot zone	• Work activities will be halted. • Source of vapors identified. • Corrective actions taken to abate emissions. • Continued monitoring. • Workers will don appropriate respirators and work can resume if vapor levels 200 feet downwind or the hot zone or half the distance to the nearest potential receptor or residential or commercial structure, whichever is less – but in no case less than 20 feet – is below 5 ppm above background for the 15-minute average
>25ppm at the parameter of the hot zone	Activities will shut down

Particulate Monitoring Action Levels	**Action Required**
Background to 100 micrograms per cubic meter (µg/m³)[2], no dust observed	No further action
Background to 100 µg/m³, dust observed leaving the work area	Dust suppression must be employed.
100 to 150 µg/m³ at the downwind parameter of the hot zone	• Work activities will be halted. • Source of dust identified. • Dust suppression activities initiated. • Corrective actions taken to abate emissions. • Continued monitoring. • Workers will don appropriate respirators. • Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM10 concentration to within 150 µg/m³ of the upwind level and in preventing visible dust migration.
>150 µg/m³ at the parameter of the hot zone	Activities will shut down

[1] VOC concentrations are 15-minute averages above site background (upwind parameter)
[2] Particulate concentrations are 15-minute averages above site background (upwind parameter)

TABLE 5
EMERGENCY NOTIFICATION LIST

ORGANIZATION	CONTACT	TELEPHONE
Local Police Department		911
Local Fire Department		911
Ambulance/Rescue Squad		911
Hospital	Montefiore Jack D. Weller Hospital/Einstein Campus	911 or 718-904-2800
Langan Incident Hotline		800-952-6426 extension 4699
Medical Treatment Hotline	WorkCare™	911 or 888-449-7757
Langan Environmental Project Manager	Brian Gonchenaur	646-247-9121 (cell)
Langan Health and Safety Manager (HSM)	Tony Moffa	215-756-2523 (cell)
Langan Health & Safety Officer (HSO)	William Bohrer	410-984-3068 (cell)
Langan Field Team Leader (FTL)	To Be Determined	
Client's Representative	Joyen Vakil	702-499-8587
National Response Center (NRC)		800-424-8802
Chemical Transportation Emergency Center (Chemtrec)		800-424-9300
Center for Disease Control (CDC)		404-639-3534
EPA (RCRA Superfund Hotline)		800-424-9346
TSCA Hotline		202-554-1404
Poison Control Center		800-222-1222

Immediately following an injury, unless immediate emergency medical treatment is required, the injured employee must contact WorkCare - Incident Intervention® at 888-449-7787.

For all other incidents or near misses, unless emergency response is required, either the employee or a coworker must contact the Langan Incident Hotline at 973-560-4699.

TABLE 6
SUGGESTED FREQUENCY OF PHYSIOLOGICAL MONITORINGFOR FIT AND ACCLIMATED WORKERS[A]

Adjusted Temperature[b]	Normal Work Ensemble[c]	Impermeable Ensemble
90°F or above (32.2°C) or above	After each 45 min. of work	After each 15 min. of work
87.5°F (30.8°-32.2°C)	After each 60 min. of work	After each 30 min. of work
82.5°-87.5°F (28.1°-30.8°C)	After each 90 min. of work	After each 60 min. of work
77.5°-82.5°F (25.3°-28.1°C)	After each 120 min. of work	After each 90 min. of work
72.5°-77.5°F (22.5°-25.3°C)	After each 150 min. of work	After each 120 min. of work

a For work levels of 250 kilocalories/hour.

b Calculate the adjusted air temperature (ta adj) by using this equation: ta adj ^{o}F = ta ^{o}F + (13 x % sunshine). Measure air temperature (ta) with a standard mercury-in-glass thermometer, with the bulb shielded from radiant heat. Estimate percent sunshine by judging what percent time the sun is not covered by clouds that are thick enough to produce a shadow. (100 percent sunshine = no cloud cover and a sharp, distinct shadow; 0 percent sunshine = no shadows.)

c A normal work ensemble consists of cotton coveralls or other cotton clothing with long sleeves and pants.

TABLE 7

HEAT INDEX

ENVIRONMENTAL TEMPERATURE (Fahrenheit)

RELATIVE HUMIDITY	70	75	80	85	90	95	100	105	110	115	120
	APPARENT TEMPERATURE*										
0%	64	69	73	78	83	87	91	95	99	103	107
10%	65	70	75	80	85	90	95	100	105	111	116
20%	66	72	77	82	87	93	99	105	112	120	**130**
30%	67	73	78	84	90	96	104	113	123	**135**	**148**
40%	68	74	79	86	93	101	110	123	**137**	**151**	
50%	69	75	81	88	96	107	120	**135**	**150**		
60%	70	76	82	90	100	114	**132**	**149**			
70%	70	77	85	93	106	124	**144**				
80%	71	78	86	97	113	**136**					
90%	71	79	88	102	122						
100%	72	80	91	108							

*Combined Index of Heat and Humidity...what it "feels like" to the body
Source: National Oceanic and Atmospheric Administration

How to use Heat Index:
1. Across top locate Environmental Temperature
2. Down left side locate Relative Humidity
3. Follow across and down to find Apparent Temperature
4. Determine Heat Stress Risk on chart at right

Note: Exposure to full sunshine can increase Heat Index values by up to 15 degrees F.

Apparent Temperature	Heat Stress Risk with Physical Activity and/or Prolonged Exposure
90-105	Heat Cramps or Heat Exhaustion Possible
105-130	Heat Cramps or Heat Exhaustion Likely, Heat Stroke Possible
>130	Heatstroke Highly Likely

FIGURES

FIGURE 1
SITE LOCATION MAP

LANGAN	Project	Figure Title	Project No.	Figure
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 360 West 31st Street, 8th Floor New York, NY 10001-2727 T: 212.479.5400 F: 212.479.5444 www.langan.com	PROPOSED BALLY'S CASINO - RING ROAD AT FERRY POINT PARK BRONX NEW YORK	SITE LOCATION MAP	170773001 Date: 9/6/2024 Scale: 1" = 2,000 feet Drawn By: MG	1

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Path: \\langan.com\data\NYC\data0\170773001\Project Data\ArcGIS\APRX\170773001\170773001.aprx

FIGURE 2
HOSPITAL ROUTE PLAN

Hospital Location: **Montefiore Jack D. Weller Hospital/Einstein Campus**
1825 Eastchester Road
Bronx, New York
718-904-2800

START: 450 Hutchinson Parkway, Bronx, NY

1. Turn right onto Hutchinson River Pkwy
2. Take the I-678 N/Hutchinson River Pkwy ramp on the left to I-95/I-278
3. Merge onto I-678
4. Take exit 18 for E Tremont Ave toward Westchester Ave
5. Continue onto Ericson Pl
6. Turn left onto E Tremont Ave
7. Turn right onto Blondell Ave
8. Stay on Blondell Ave to turn right onto Eastchester Rd
9. Turn left onto Sackett Ave, destination will be on the right.

END: Montefiore Jack D. Weller Hospital/Einstein Campus, 1825 Eastchester Road, Bronx, NY

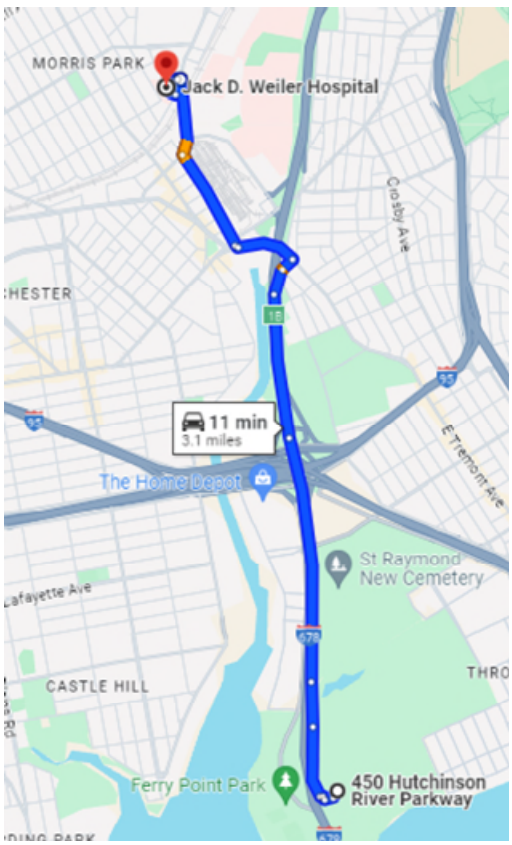

ATTACHMENTS

ATTACHMENT A

STANDING ORDERS

STANDING ORDERS

GENERAL

- No smoking, eating, or drinking in this work zone.
- Upon leaving the work zone, personnel will thoroughly wash their hands and face.
- Minimize contact with contaminated materials through proper planning of work areas and decontamination areas, and by following proper procedures. Do not place equipment on the ground. Do not sit on contaminated materials.
- No open flames in the work zone.
- Only properly trained and equipped personnel are permitted to work in potentially contaminated areas.
- Always use the appropriate level of personal protective equipment (PPE).
- Maintain close contact with your buddy in the work zone.
- Contaminated material will be contained in the Exclusion Zone (EZ).
- Report any unusual conditions.
- Work areas will be kept clear and uncluttered. Debris and other slip, trip, and fall hazards will be removed as frequently as possible.
- The number of personnel and equipment in the work zone will be kept to an essential minimum.
- Be alert to the symptoms of fatigue and heat/cold stress, and their effects on the normal caution and judgment of personnel.
- Conflicting situations which may arise concerning safety requirements and working conditions must be addressed and resolved quickly by the site HSO.

TOOLS AND HEAVY EQUIPMENT

- Do not, under any circumstances, enter or ride in or on any backhoe bucket, materials hoist, or any other device not specifically designed to carry passengers.
- Loose-fitting clothing or loose long hair is prohibited around moving machinery.
- Ensure that heavy equipment operators and all other personnel in the work zone are using the same hand signals to communicate.
- Drilling/excavating within 10 feet in any direction of overhead power lines is prohibited.
- The locations of all underground utilities must be identified and marked out prior to initiating any subsurface activities.
- Check to ensure that the equipment operator has lowered all blades and buckets to the ground before shutting off the vehicle.
- If the equipment has an emergency stop device, have the operator show all personnel its location and how to activate it.
- Help the operator ensure adequate clearances when the equipment must negotiate in tight quarters; serve as a signal operator to direct backing, as necessary.
- Ensure that all heavy equipment that is used in the Exclusion Zone is kept in that zone until the job is done and that such equipment is completely decontaminated before moving it into the clean area of the work zone.
- Samplers must not reach into or get near rotating equipment such as the drill rig. If personnel must work near any tools that could rotate, the equipment operator must completely shut down the rig prior to initiating such work. It may be necessary to use a remote sampling device.

ATTACHMENT B

DECONTAMINATION PROCEDURES

PERSONNEL DECONTAMINATION

LEVEL C DECONTAMINATION

Station 1:	Equipment Drop	1. Deposit equipment used on-site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths. Segregation at the drop reduces the probability of cross-contamination. During hot weather operations, cool down stations may be set up within this area.
Station 2:	Outer Garment, Boots, and Gloves Wash and Rinse	2. Scrub outer boots, outer gloves, and chemical-resistant splash suit with decon solution or detergent and water. Rinse off using copious amounts of water.
Station 3:	Outer Boot and Glove Removal	3. Remove outer boots and gloves. Deposit in container with plastic liner.
Station 4:	Canister or Mask Change	4. If worker leaves Exclusion Zone to change canister (or mask), this is the last step in the decontamination procedure. Worker's canister is exchanged, new outer gloves and boot covers donned, joints taped, and worker returns to duty.
Station 5:	Boot, Gloves and Outer Garment Removal	5. Boots, chemical-resistant splash suit, inner gloves removed and deposited in separate containers lined with plastic.
Station 6:	Face piece Removal	6. Face piece is removed (avoid touching face with fingers). Face piece deposited on plastic sheets.
Station 7:	Field Wash	7. Hands and face are thoroughly washed. Shower as soon as possible.

LEVEL D DECONTAMINATION

Station 1:	Equipment Drop	1. Deposit equipment used on-site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths. Segregation at the drop reduces the probability of cross contamination. During hot weather operations, cool down stations may be set up within this area.
Station 2:	Outer Garment, Boots, and Gloves Wash and Rinse	2. Scrub outer boots, outer gloves and chemical-resistant splash suit with decon solution or detergent and water. Rinse off using copious amounts of water.
Station 3:	Outer Boot and Glove Removal	3. Remove outer boots and gloves. Deposit in container with plastic liner.
Station 4:	Boot, Gloves and Outer Garment Removal	4. Boots, chemical-resistant splash suit, inner gloves removed and deposited in separate containers lined with plastic.
Station 5:	Field Wash	5. Hands and face are thoroughly washed. Shower as soon as possible.

EQUIPMENT DECONTAMINATION

GENERAL:

Equipment to be decontaminated during the project may include tools, monitoring equipment, respirators, sampling containers, laboratory equipment, and drilling equipment.

All decontamination will be done by personnel in protective gear, appropriate for the level of decontamination, as determined by the site HSO. The decontamination work tasks will be split or rotated among support and work crews.

Depending on site conditions, backhoes and pumps may be decontaminated over a portable decontamination pad to contain wash water; or wash water may be allowed to run off into a storm sewer system. Equipment needed may include a steam generator with high-pressure water, empty drums, screens, screen support structures, and shovels. Drums will be used to hold contaminated wash water pumped from the lined pit. These drums will be labeled as such.

Miscellaneous tools and equipment will be dropped into a plastic bucket, tub, or other containers. They will be brushed off and rinsed with a detergent solution, and finally rinsed with clean water.

MONITORING EQUIPMENT:

Monitoring equipment will be protected as much as possible from contamination by draping, masking, or otherwise covering as many of the instruments as possible with plastic without hindering the operation of the unit. The PID, HNu, or OVA meter, for example, can be placed in a clear plastic bag, which allows reading of the scale and operation of knobs. The probes can be partially wrapped keeping the sensor tip and discharge port clear.

The contaminated equipment will be taken from the drop area and the protective coverings removed and disposed of in the appropriate containers. Any dirt or obvious contamination will be brushed or wiped with a disposable paper wipe.

RESPIRATORS:

Respirators will be cleaned and disinfected after every use. Taken from the drop area, the masks (with the cartridges removed and disposed of with other used disposable gear) will be immersed in a cleaning solution and scrubbed gently with a soft brush, followed by a rinse in plain warm water, and then allowed to air dry. In the morning, new cartridges will be installed. Personnel will inspect their own masks for serviceability prior to donning them. And, once the mask is on, the wearer will check the respirator for leakage using the negative and positive pressure fit check techniques.

ATTACHMENT C

EMPLOYEE EXPOSURE/INJURY INCIDENT REPORT

EMPLOYEE INCIDENT/INJURY REPORT
LANGAN ENGINEERING & ENVIRONMENTAL SERVICES

(Complete and return to Tony Moffa in the Doylestown Office)

Affected Employee Name: _____ Date: _____

Incident type: ☐ Injury ☐ Report Only/No Injury
☐ Near Miss ☐ Other: _____

EMPLOYEE INFORMATION (Person completing Form)

Employee Name: _____ Employee No: _____

Title: _____ Office Location: _____

Length of time employed or date of hire: _____

Mailing address: _____

Sex: M ☐ F ☐ Birth date: _____

Business phone & extension: _____ Residence/cell phone: _____

ACCIDENT INFORMATION

Project: _____ Project #: _____

Date & time of incident: _____ Time work started & ended: _____

Site location: _____

Incident Type: Possible Exposure ☐ Exposure ☐ Physical Injury ☐

Names of person(s) who witnessed the incident:_____

_____

_____

Exact location incident occurred:

_____

_____

Describe work being done:_____

_____

_____

_____

Describe what affected employee was doing prior to the incident occurring:

_____

_____

_____

Describe in detail how the incident occurred:

_____

_____

_____

_____

Nature of the incident (List the parts of the body affected):

_____

_____

_____

_____

Person(s) to whom the incident was reported (Time and Date):

_____

_____

List the names of other persons affected during this incident:

_____

_____

Possible causes of the incident (equipment, unsafe work practices, lack of PPE, etc.):

_____

_____

_____

Weather conditions during incident:

_____

MEDICAL CARE INFORMATION

Did affected employee receive medical care? Yes ☐ No ☐

If Yes, when, and where was medical care received:

_____

_____

Provide name of facility (hospital, clinic, etc.):

_____

_____

Length of stay at the facility.

_____

Did the employee miss any work time? Yes ☐ No ☐ Undetermined ☐

Date employee last worked: _____ Date employee returned to work:

_____

Has the employee returned to work? Yes ☐ No ☐

Does the employee have any work limitations or restrictions from the injury? : Yes ☐ No ☐

If Yes, please describe:

_____

_____

Did the exposure/injury result in permanent disability? Yes ☐ No ☐ Unknown ☐

If Yes, please describe:

_____

HEALTH & SAFETY INFORMATION

Was the operation being conducted under an established site-specific Health and Safety Plan?
Yes ☐ No ☐ Not Applicable: ☐

Describe protective equipment and clothing used by the employee:

_____

_____

_____

Did any limitations in safety equipment or protective clothing contribute to or affect exposure/injury? If so, explain:

_____

_____

_____

_____

Employee Signature Date

_____

Langan Representative Date

ATTACHMENT D

CALIBRATION LOG

DATE:_____ PROJECT:_____

CALIBRATION LOG

Date & Time	Inst Type	Inst #	Media	Initial Reading	Span #	Calibrate Reading	Performed By:

ATTACHMENT E

MATERIAL SAFETY DATA SHEETS
SAFETY DATA SHEETS

All Langan Field Personnel Completing This Work Plan Are To Have Real-Time Accessibility To Material Safety Data Sheets (MSDS) or Safety Data Sheets (SDSs) Through Their Smart Phone.

The link is http://www.msds.com/
The login name is "drapehead"
The password is "2angan987"

If You Are Unable To Use the Smart Phone App, You Are To Bring Printed Copies of the MSDS/SDSs to the Site

SAFETY DATA SHEET

Version 5.3
Revision Date 12/29/2015
Print Date 04/11/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	1,1-Dichloroethane
Product Number	:	48512
Brand	:	Supelco
Index-No.	:	602-011-00-1
CAS-No.	:	75-34-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Acute toxicity, Oral (Category 4), H302
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	Ethylidene chloride
Formula	:	$C_2H_4Cl_2$
Molecular weight	:	98.96 g/mol
CAS-No.	:	75-34-3
EC-No.	:	200-863-5
Index-No.	:	602-011-00-1

Hazardous components

Component	Classification	Concentration
1,1-Dichloroethane		
	Flam. Liq. 2; Acute Tox. 4; Eye Irrit. 2A; STOT SE 3; Aquatic Acute 3; Aquatic Chronic 3; H225, H302, H319, H335, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
1,1-Dichloroethane	75-34-3	TWA	100.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation Eye irritation Liver damage Kidney damage Not classifiable as a human carcinogen		
		TWA	100.000000 ppm 400.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		See Appendix C		
		TWA	100.000000 ppm 400.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: butyl-rubber
Minimum layer thickness: 0.3 mm
Break through time: 60 min
Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering

controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	-97.99 °C (-144.38 °F)
f)	Initial boiling point and boiling range	55.0 - 58.0 °C (131.0 - 136.4 °F)
g)	Flash point	-9.99 °C (14.02 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	1.17 g/cm3
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 725.0 mg/kg

LC50 Inhalation - Rat - 4 h - 13000 ppm

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
Chronic exposure may cause dermatitis.

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: KI0175000

Liver injury may occur., Kidney injury may occur., narcosis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Central nervous system -

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2362 Class: 3 Packing group: II
Proper shipping name: 1,1-Dichloroethane
Reportable Quantity (RQ): 1000 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 2362 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: 1,1-DICHLOROETHANE

IATA
UN number: 2362 Class: 3 Packing group: II
Proper shipping name: 1,1-Dichloroethane

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
1,1-Dichloroethane	75-34-3	2007-07-01

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
1,1-Dichloroethane	75-34-3	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
1,1-Dichloroethane	75-34-3	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
1,1-Dichloroethane	75-34-3	2007-07-01

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. 1,1-Dichloroethane	75-34-3	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.3 Revision Date: 12/29/2015 Print Date: 04/11/2016

M A T E R I A L S A F E T Y D A T A S H E E T

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Company: AccuStandard, Inc.
125 Market Street
New Haven, CT 06513

Date MSDS Printed: 4/21/2006
Preparation Date: 4/21/2006
Information Phone Number: 203-786-5290
Emergency Phone Number: 203-786-5290
Hours: Mon. to Fri. 8am-5pm EDT

MSDS Number: V-029
Product Name: 1,2,4-Trimethylbenzene
Synonyms: 1,2,4-Trimethylbenzene; Pseudocumene; psi-Cumene; Assymetrical trimethylbenzene
Formula: C_9H_{12} Molecular Weight: 120.19

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Component(s) (1)	CAS #	Appr. %	ACGIH-TLV (mg/m3) TWA	STEL	skin	OSHA-PEL (mg/m3) TWA	STEL	skin
1,2,4-Trimethylbenzene	95-63-6	100	123					

SECTION 3 - HAZARDS IDENTIFICATION

Symptoms of Exposure:

Irritating to eyes, skin, mucous membranes and upper respiratory system.

Narcotic in high concentrations.

May cause headache, dizziness, nausea, and narcosis.

May cause stomach cramps and gastro-intestinal disturbances.

To the best of our knowledge the chemical, physical and toxicological properties of the component ingredients have not been thoroughly investigated.

Potential Health Effects:

Harmful if inhaled.

May be harmful if absorbed through skin or swallowed

May cause central nervous system damage.

Routes of Entry:

Inhalation, ingestion or skin contact.

Carcinogenicity:

This product is or contains a component that is not listed (ACGIH, IARC, NTP, OSHA) as a cancer causing agent.

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SECTION 4 - FIRST AID MEASURES

Emergency First Aid:

Get medical assistance for all cases of overexposure.

Skin contact: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

Eye contact: Immediately flush with plenty of water. After initial flushing, remove and contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: Call a physician or poison control center immediately. ONLY induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

Flammable Properties:

Flash Point: 118.4 °F (48 °C) (cc)

Flammable Limits LEL (%): 0.9

Flammable Limits UEL (%): 6.4

Autoignition Temperature: 515 °C

Flammable liquid and vapor.

Vapors can travel to a source of ignition and flash back.

Containers can build up pressure if exposed to heat.

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

Use alcohol foam, carbon dioxide, dry chemical, or water spray when fighting fires involving this material.

Fire Fighting Procedures:

As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spill Response:

Wear a self-contained breathing apparatus and appropriate Personal protection. Stop leak if you can do so without risk. Ventilate area. Neutralize spill with soda ash or lime. Take up and containerize for proper disposal. Flush spill area with water. Keep combustibles away from spilled material. Comply with Federal, State, and local regulations.

SECTION 7 - HANDLING AND STORAGE

Store in a tighly closed container.

Store in a cool area away from ignition sources and oxidizers.

Do not breathe vapor.

Do not get in eyes, on skin or clothing.

Avoid prolonged or repeated exposure.

This product should only by used by persons trained in the safe handling of hazardous chemicals.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls and Personal Protection Equipment (PPE):

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other

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NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety equipment supplier). Engineering and/or administrative controls should be implemented to reduce exposure.

Material should be handled or transferred in an approved fume hood or with adequate ventilation.

Compatible chemical-resistant protective gloves must be worn to prevent skin contact.

Safety glasses with side shields must be worn at all times.

General Hygiene Considerations:

Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid
Odor: Aromatic
pH: N/A
Vapor Pressure: 7 mmHg (44.4 °C)
Vapor Density (Air = 1): 4.2 g/l
Boiling Point: 168 - 169 °C
Melting Point: -43.7 °C
Solubility in Water (%): Insoluble
Specific Gravity (H_2O = 1): 0.876 g/cm3
Flash Point: 118.4 °F (48 °C) (cc)
Explosion Limits (%): 0.9 to 6.4
Autoignition Temperature: 515 °C
Percent Volatile: N/A
Evaporation Rate (BuAc = 1): N/A
Molecular Weight: 120.19
Molecular Formula: C_9H_{12}

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable
Conditions To Avoid: Heat; Contact with ignition sources
Materials To Avoid: Oxidizers

Hazardous Decomposition: Carbon oxides
Hazardous Polymerization: Will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

See section 3 for specific toxicological information for the ingredients of this product.

SECTION 12 - ECOLOGICAL INFORMATION

By complying with sections 6 and 7 there will be no release to the environment.

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SECTION 13 - DISPOSAL CONSIDERATIONS

Recycle or incinerate at any EPA approved facility or dispose in compliance with Federal, State and local regulations. Empty containers must be triple-rinsed prior to disposal.

SECTION 14 - TRANSPORT INFORMATION

DOT UN Number: UN3295 Shipping Class: 3 Packing Group: III FLAMMABLE

SECTION 15 - REGULATORY INFORMATION

In addition to Federal and state regulations, local regulations may apply. Check with your local regulatory authorities.

SECTION 16 - OTHER INFORMATION

This document has been designed to meet the requirements of OSHA, ANSI and CHIPs regulations.

The statements contained herein are offered for informational purposes only and are based on technical data that we believe to be accurate. It is intended for use only by persons having the necessary technical skill and at their own discretion and risk. Since conditions and manner of use are outside our control, we make
NO WARRANTY, EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE.

Legend : N/A = Not Available ND = Not Determined NR = Not Regulated

* * * End of Document * * *

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SAFETY DATA SHEET

Version 4.7
Revision Date 11/26/2015
Print Date 02/11/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	1,2-Dichlorobenzene
Product Number	:	240664
Brand	:	Sigma-Aldrich
Index-No.	:	602-034-00-7
CAS-No.	:	95-50-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 4), H227
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 4), H332
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Skin sensitisation (Category 1), H317
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)

H227	Combustible liquid.
H302 + H332	Harmful if swallowed or if inhaled
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_6H_4Cl_2$
Molecular weight	:	147.00 g/mol
CAS-No.	:	95-50-1
EC-No.	:	202-425-9
Index-No.	:	602-034-00-7

Hazardous components

Component	Classification	Concentration
1,2-Dichlorobenzene		
	Flam. Liq. 4; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; Skin Sens. 1; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1; H227, H302 + H332, H315, H317, H319, H335, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Light sensitive.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
1,2-Dichlorobenzene	95-50-1	TWA	25.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation Eye irritation Liver damage Not classifiable as a human carcinogen		
		TWA	25 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye irritation Liver damage Not classifiable as a human carcinogen		
		STEL	50.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye irritation Liver damage Not classifiable as a human carcinogen		
		STEL	50 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye irritation Liver damage Not classifiable as a human carcinogen		
		C	50.000000 ppm 300.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate. Ceiling limit is to be determined from breathing-zone air samples.		
		C	50.000000 ppm 300.000000 mg/m3	USA. NIOSH Recommended Exposure Limits

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 38 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -18 - -17 °C (0 - 1 °F) - lit.
f)	Initial boiling point and boiling range	178 - 180 °C (352 - 356 °F) - lit.
g)	Flash point	66.0 °C (150.8 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 9.2 %(V) Lower explosion limit: 2.2 %(V)
k)	Vapour pressure	2.1 hPa (1.6 mmHg) at 35.0 °C (95.0 °F) 1.6 hPa (1.2 mmHg) at 20.0 °C (68.0 °F)
l)	Vapour density	No data available
m)	Relative density	1.306 g/cm3 at 25 °C (77 °F)
n)	Water solubility	ca.0.1558 g/l at 25 °C (77 °F) - partly soluble
o)	Partition coefficient: n-octanol/water	log Pow: ca.3.433 at 25 °C (77 °F)
p)	Auto-ignition temperature	648.0 °C (1,198.4 °F)
q)	Decomposition	No data available

temperature

r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Surface tension ca.36.61 mN/m

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 500.0 mg/kg

Inhalation: No data available

LD50 Dermal - Rabbit - > 10,000 mg/kg

No data available

Skin corrosion/irritation
Skin - Rabbit
(OECD Test Guideline 404)

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
in vivo assay - Mouse
May cause sensitisation by skin contact.
(OECD Test Guideline 429)

Germ cell mutagenicity
No data available

Ames test
Salmonella typhimurium
Result: negative

OECD Test Guideline 474
Mouse - male - Bone marrow
Result: negative

Carcinogenicity

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (1,2-Dichlorobenzene)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure

Aspiration hazard
No data available

Additional Information

Repeated dose toxicity	Rat - male and female - Oral - 24 h - NOAEL : 60 mg/kg - LOAEL : 125 mg/kg - OECD Test Guideline 408

RTECS: CZ4500000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 1.58 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Ceriodaphnia dubia (water flea) - 0.66 mg/l - 48 h
Toxicity to algae	Growth inhibition EC50 - Pseudokirchneriella subcapitata - 2.2 mg/l - 96 h

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 28 d Result: 0 % - Not readily biodegradable. (OECD Test Guideline 301C)

12.3 Bioaccumulative potential

Bioaccumulation	Cyprinus carpio (Carp) - 56 d - 0.01 mg/l Bioconcentration factor (BCF): 90 - 260 (OECD Test Guideline 305C)

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1591 Class: 6.1 Packing group: III
Proper shipping name: o-Dichlorobenzene
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1591 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: ortho-DICHLOROBENZENE
Marine pollutant:yes
IATA
UN number: 1591 Class: 6.1 Packing group: III
Proper shipping name: o-Dichlorobenzene

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
1,2-Dichlorobenzene	95-50-1	2007-07-01

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
1,2-Dichlorobenzene	95-50-1	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
1,2-Dichlorobenzene	95-50-1	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
1,2-Dichlorobenzene	95-50-1	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox. Acute toxicity

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H227	Combustible liquid.
H302	Harmful if swallowed.
H302 + H332	Harmful if swallowed or if inhaled
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	2
Physical Hazard	1

NFPA Rating

Health hazard:	2
Fire Hazard:	2
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.7 Revision Date: 11/26/2015 Print Date: 02/11/2016

SAFETY DATA SHEET

Creation Date 04-Feb-2010 **Revision Date** 18-Jan-2018 **Revision Number** 6

1. Identification

Product Name **1,2-Dichloroethane**

Cat No. : **E175-4; E175-20; E175-500; E175RS-19; E175RS-50; E190-4**

CAS-No 107-06-2
Synonyms Ethylene dichloride; Ethylene chloride (Certified ACS/Spectranalyzed)

Recommended Use Laboratory chemicals.
Uses advised against Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Emergency Telephone Number
CHEMTREC®, Inside the USA: 800-424-9300
CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 2
Acute oral toxicity	Category 4
Acute Inhalation Toxicity - Vapors	Category 3
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Carcinogenicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system, Central nervous system (CNS).	
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Kidney, Liver, Heart, Blood.	

Label Elements

Signal Word
Danger

Hazard Statements
Highly flammable liquid and vapor
Harmful if swallowed
Causes skin irritation
Causes serious eye irritation

Toxic if inhaled
May cause respiratory irritation
May cause drowsiness or dizziness
May cause cancer
May cause damage to organs through prolonged or repeated exposure

Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Wear eye/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool
Response
IF exposed or concerned: Get medical attention/advice
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician
Skin
If skin irritation occurs: Get medical advice/attention
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
Fire
In case of fire: Use CO_2, dry chemical, or foam for extinction
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)

WARNING. Cancer - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Ethylene dichloride	107-06-2	>95

4. First-aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms and effects Breathing difficulties. May cause cardiac arrhythmia. May cause central nervous system depression: Symptoms may include tightness in the chest, flushing, headache, nausea, vomiting, respiratory depression, weakness, irregular heartbeat, abdominal pain, convulsions, and shock

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.

Unsuitable Extinguishing Media Water may be ineffective

Flash Point 13 °C / 55.4 °F

Method - No information available

Autoignition Temperature 440 °C / 824 °F

Explosion Limits
Upper 15.9 vol %
Lower 6.2 vol %
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO_2) Hydrogen chloride gas Phosgene
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
3	3	0	N/A

6. Accidental release measures

Personal Precautions Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions Should not be released into the environment. See Section 12 for additional ecological information.

Methods for Containment and Clean Up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7. Handling and storage

Handling Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not ingest. Use only under a chemical fume hood. Do not breathe vapors or spray mist. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Ethylene dichloride	TWA: 10 ppm	(Vacated) TWA: 1 ppm (Vacated) TWA: 4 mg/m^3 Ceiling: 100 ppm (Vacated) STEL: 2 ppm (Vacated) STEL: 8 mg/m^3 TWA: 50 ppm	IDLH: 50 ppm TWA: 1 ppm TWA: 4 mg/m^3 STEL: 2 ppm STEL: 8 mg/m^3	TWA: 10 ppm TWA: 40 mg/m^3

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Tightly fitting safety goggles. Face-shield.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	sweet
Odor Threshold	400 ppm
pH	No information available
Melting Point/Range	-35 °C / -31 °F
Boiling Point/Range	81 - 85 °C / 177.8 - 185 °F
Flash Point	13 °C / 55.4 °F
Evaporation Rate	6.5 (Butyl Acetate = 1.0)
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	15.9 vol %
Lower	6.2 vol %
Vapor Pressure	65 mmHg @ 29 °C
Vapor Density	3.4
Specific Gravity	1.250
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	440 °C / 824 °F
Decomposition Temperature	No information available
Viscosity	0.8 mPa s at 20 °C
Molecular Formula	C2 H4 Cl2
Molecular Weight	98.96

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible Materials Strong oxidizing agents, Bases, Alkali metals

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2), Hydrogen chloride gas, Phosgene

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethylene dichloride	625 mg/kg (Rat) 413 mg/kg (Mouse)	2800 mg/kg (Rabbit)	28.79 mg/L (Rat) 1h 7.8 mg/l (Rat) 4h

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes, respiratory system and skin

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Ethylene dichloride	107-06-2	Group 2B	Reasonably Anticipated	Not listed	X	Not listed

IARC: (International Agency for Research on Cancer)

NTP: (National Toxicity Program)

IARC: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans
NTP: (National Toxicity Program)
Known - Known Carcinogen
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system Central nervous system (CNS)
STOT - repeated exposure Kidney Liver Heart Blood

Aspiration hazard No information available

Symptoms / effects,both acute and delayed May cause central nervous system depression: Symptoms may include tightness in the chest, flushing, headache, nausea, vomiting, respiratory depression, weakness, irregular heartbeat, abdominal pain, convulsions, and shock

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity
Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Ethylene dichloride	EC50: = 166 mg/L, 96h static (Desmodesmus subspicatus) EC50: > 433 mg/L, 96h (Pseudokirchneriella subcapitata)	LC50: 110 - 123 mg/L, 96h flow-through (Pimephales promelas) LC50: 230 - 710 mg/L, 96h flow-through (Lepomis macrochirus) LC50: = 225 mg/L, 96h static (Oncorhynchus mykiss)	Not listed	EC50: 140 - 190 mg/L, 48h Static (Daphnia magna)

Persistence and Degradability Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its volatility.

Component	log Pow
Ethylene dichloride	1.45

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Ethylene dichloride - 107-06-2	U077	-

14. Transport information

DOT

UN-No	UN1184
Proper Shipping Name	ETHYLENE DICHLORIDE
Hazard Class	3
Subsidiary Hazard Class	6.1
Packing Group	II

TDG

UN-No	UN1184
Proper Shipping Name	ETHYLENE DICHLORIDE
Hazard Class	3
Subsidiary Hazard Class	6.1
Packing Group	II

IATA

UN-No	UN1184
Proper Shipping Name	ETHYLENE DICHLORIDE
Hazard Class	3
Subsidiary Hazard Class	6.1
Packing Group	II

IMDG/IMO

UN-No	UN1184
Proper Shipping Name	ETHYLENE DICHLORIDE
Hazard Class	3
Subsidiary Hazard Class	6.1
Packing Group	II

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Ethylene dichloride	X	X	-	203-458-1	-		X	X	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)

Component	TSCA 12(b)
Ethylene dichloride	Section 4

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Ethylene dichloride	107-06-2	>95	0.1

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Ethylene dichloride	X	100 lb	X	X

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Ethylene dichloride	X		-

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Ethylene dichloride	100 lb 1 lb	-

California Proposition 65 This product contains the following proposition 65 chemicals

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Ethylene dichloride	107-06-2	Carcinogen	10 µg/day	Carcinogen

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ethylene dichloride	X	X	X	X	-

U.S. Department of Transportation

Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade Serious risk, Grade 3

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 04-Feb-2010
Revision Date 18-Jan-2018
Print Date 18-Jan-2018
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

Material Safety Data Sheet

Version 3.1
Revision Date 04/08/2011
Print Date 12/27/2011

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	1,3,5-Trimethylbenzene
Product Number	:	442236
Brand	:	Supelco
Supplier	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052
Emergency Phone # (For both supplier and manufacturer)	:	(314) 776-6555
Preparation Information	:	Sigma-Aldrich Corporation Product Safety - Americas Region 1-800-521-8956

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards
Combustible Liquid, Target Organ Effect, Irritant

Target Organs

Peripheral nervous system., Central nervous system, Blood

GHS Classification
Flammable liquids (Category 3)
Acute toxicity, Inhalation (Category 5)
Skin irritation (Category 2)
Eye irritation (Category 2B)
Specific target organ toxicity - single exposure (Category 3)
Acute aquatic toxicity (Category 2)
Chronic aquatic toxicity (Category 2)

GHS Label elements, including precautionary statements

Pictogram

Signal word: Warning

Hazard statement(s)

H226	Flammable liquid and vapour.
H315 + H320	Causes skin and eye irritation.
H333	May be harmful if inhaled.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P273	Avoid release to the environment.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS Classification

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	2
Physical hazards:	0

NFPA Rating

Health hazard:	2
Fire:	2
Reactivity Hazard:	0

Potential Health Effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.
Ingestion	May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms	:	Mesitylene 1,3,5-Trimethylbenzene
Formula	:	C_9H_{12}
Molecular Weight	:	120.19 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
Mesitylene			
108-67-8	203-604-4	601-025-00-5	-

4. FIRST AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

7. HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis
Mesitylene	108-67-8	TWA	25 ppm 125 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	25 ppm 123 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		TWA	25 ppm 125 mg/m3	USA. NIOSH Recommended Exposure Limits

Personal protective equipment

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection
impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form liquid, clear

Colour	colourless

Safety data

pH	no data available
Melting point/freezing point	Melting point/range: -45 °C (-49 °F) - lit.
Boiling point	163 - 166 °C (325 - 331 °F) - lit.
Flash point	53.0 °C (127.4 °F) - closed cup
Ignition temperature	550 °C (1,022 °F)
Autoignition temperature	550.0 °C (1,022.0 °F)
Lower explosion limit	0.88 %(V)
Vapour pressure	18.7 hPa (14.0 mmHg) at 55.0 °C (131.0 °F) 3.3 hPa (2.5 mmHg) at 25.0 °C (77.0 °F)
Density	0.864 g/cm3 at 25 °C (77 °F)
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
no data available

Conditions to avoid
Heat, flames and sparks.

Materials to avoid
Strong oxidizing agents

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50
Inhalation LC50
LC50 Inhalation - rat - 4 h - 24,000 mg/m3

Dermal LD50
no data available

Other information on acute toxicity
no data available

Skin corrosion/irritation
Skin - rabbit - Skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - rabbit - Mild eye irritation - 24 h

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
no data available

Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

Teratogenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)
May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)
no data available

Aspiration hazard
no data available

Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects
no data available

Additional Information
RTECS: OX6825000

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish	LC50 - Carassius auratus (goldfish) - 12.52 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates.	Immobilization EC50 - Daphnia magna (Water flea) - 6 mg/l - 48 h

Persistence and degradability
no data available

Bioaccumulative potential
no data available

Mobility in soil
no data available

PBT and vPvB assessment
no data available

Other adverse effects

Toxic to aquatic life with long lasting effects.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2325 Class: 3 Packing group: III
Proper shipping name: 1,3,5-Trimethylbenzene
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG
UN number: 2325 Class: 3 Packing group: III EMS-No: F-E, S-D
Proper shipping name: 1,3,5-TRIMETHYLBENZENE
Marine pollutant: No

IATA
UN number: 2325 Class: 3 Packing group: III
Proper shipping name: 1,3,5-Trimethylbenzene

15. REGULATORY INFORMATION

OSHA Hazards
Combustible Liquid, Target Organ Effect, Irritant

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Mesitylene	108-67-8	1994-04-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Mesitylene	108-67-8	1994-04-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Mesitylene	108-67-8	1994-04-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

SAFETY DATA SHEET

Version 4.7
Revision Date 06/18/2015
Print Date 02/09/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	1,3-Dichlorobenzene
Product Number	:	113808
Brand	:	Aldrich
Index-No.	:	602-067-00-7
CAS-No.	:	541-73-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 4), H227
Acute toxicity, Oral (Category 4), H302
Acute aquatic toxicity (Category 2), H401
Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Warning

Hazard statement(s)

H227	Combustible liquid.
H302	Harmful if swallowed.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you

	feel unwell. Rinse mouth.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P391	Collect spillage.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_6H_4Cl_2$
Molecular weight	:	147.00 g/mol
CAS-No.	:	541-73-1
EC-No.	:	208-792-1
Index-No.	:	602-067-00-7

Hazardous components

Component	Classification	Concentration
1,3-Dichlorobenzene		
	Flam. Liq. 4; Acute Tox. 4; Aquatic Acute 2; Aquatic Chronic 2; H227, H302, H411	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): Combustible liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm

Break through time: 37 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -25 - -22 °C (-13 - -8 °F) - lit.
f)	Initial boiling point and boiling range	172 - 173 °C (342 - 343 °F) - lit.
g)	Flash point	67.0 °C (152.6 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	1.288 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 5
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available

t) Oxidizing properties No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

LD50 Intraperitoneal - Mouse - 1,062 mg/kg

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (1,3-Dichlorobenzene)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: CZ4499000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 7.8 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - 1.7 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

Bioaccumulation	Pimephales promelas (fathead minnow) - 32 d - 0.3 mg/l Bioconcentration factor (BCF): 97

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3082 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (1,3-Dichlorobenzene)
Reportable Quantity (RQ): 100 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 3082 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,3-Dichlorobenzene)
Marine pollutant:yes

IATA
UN number: 3082 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (1,3-Dichlorobenzene)

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
1,3-Dichlorobenzene	541-73-1	2007-07-01

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
1,3-Dichlorobenzene	541-73-1	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
1,3-Dichlorobenzene	541-73-1	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
1,3-Dichlorobenzene	541-73-1	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Flam. Liq.	Flammable liquids
H227	Combustible liquid.
H302	Harmful if swallowed.
H401	Toxic to aquatic life.

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	
Flammability:	2
Physical Hazard	0

NFPA Rating

Health hazard:	1
Fire Hazard:	2
Reactivity Hazard:	0

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.7 Revision Date: 06/18/2015 Print Date: 02/09/2016

SAFETY DATA SHEET

Version 4.4
Revision Date 04/24/2015
Print Date 04/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	1,4-Dichlorobenzene
Product Number	:	D56829
Brand	:	Aldrich
Index-No.	:	602-035-00-2
CAS-No.	:	106-46-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Eye irritation (Category 2A), H319
Carcinogenicity (Category 2), H351
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Warning

Hazard statement(s)

H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_6H_4Cl_2$
Molecular weight	:	147.00 g/mol
CAS-No.	:	106-46-7
EC-No.	:	203-400-5
Index-No.	:	602-035-00-2

Hazardous components

Component	Classification	Concentration
1,4-Dichlorobenzene		
	Eye Irrit. 2A; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H319, H351, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
1,4-Dichlorobenzene	106-46-7	TWA	10.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Eye irritation Kidney damage Confirmed animal carcinogen with unknown relevance to humans		
		Potential Occupational Carcinogen See Appendix A		
		TWA	75.000000 ppm 450.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: sheets Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 52 - 54 °C (126 - 129 °F) - lit.
f)	Initial boiling point and boiling range	173 °C (343 °F) - lit.
g)	Flash point	66.0 °C (150.8 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	8.8 hPa (6.6 mmHg) at 50.0 °C (122.0 °F) 0.5 hPa (0.4 mmHg) at 25.0 °C (77.0 °F)
l)	Vapour density	No data available
m)	Relative density	1.241 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available

o)	Partition coefficient: n-octanol/water	log Pow: 3.40
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Bulk density	650 kg/m3

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD0 Oral - Rat - male and female - > 2,000 mg/kg
(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - > 5.07 mg/l

LD0 Dermal - Rat - > 2,000 mg/kg
(OECD Test Guideline 402)

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation
(OECD Test Guideline 404)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation
(OECD Test Guideline 405)

Respiratory or skin sensitisation
Maximisation Test (GPMT) - Guinea pig
Did not cause sensitisation on laboratory animals.
(OECD Test Guideline 406)

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC:	2B - Group 2B: Possibly carcinogenic to humans (1,4-Dichlorobenzene)
NTP:	Reasonably anticipated to be a human carcinogen (1,4-Dichlorobenzene)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: CZ4550000

Produces:, methemoglobin, Nausea, Vomiting, Increased pulse rate, Headache, Impairment of vision

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Salmo gairdneri - 1.12 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 0.7 mg/l - 48 h
Toxicity to algae	Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) - 1.6 mg/l - 96 h

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 28 d Result: 30 % - Not rapidly biodegradable (OECD Test Guideline 301C)

12.3 Bioaccumulative potential

Bioaccumulation	Jordanella floridae - 5 d - 2.68 µg/l Bioconcentration factor (BCF): 296

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (1,4-Dichlorobenzene)
Reportable Quantity (RQ): 100 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1,4-Dichlorobenzene)
Marine pollutant:yes

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (1,4-Dichlorobenzene)

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
1,4-Dichlorobenzene	106-46-7	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
1,4-Dichlorobenzene	106-46-7	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
1,4-Dichlorobenzene	106-46-7	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
1,4-Dichlorobenzene	106-46-7	2007-07-01

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. 1,4-Dichlorobenzene	106-46-7	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	2
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.4 Revision Date: 04/24/2015 Print Date: 04/01/2016

SAFETY DATA SHEET

Version 5.4
Revision Date 03/03/2015
Print Date 04/11/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	1,4-Dioxane
Product Number	:	296309
Brand	:	Sigma-Aldrich
Index-No.	:	603-024-00-5
CAS-No.	:	123-91-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Eye irritation (Category 2A), H319
Carcinogenicity (Category 2), H351
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.

P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ eye protection/ face protection.
P281	Use personal protective equipment as required.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

May form explosive peroxides., Repeated exposure may cause skin dryness or cracking.
May form explosive peroxides.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	Dioxane Diethylene oxide
Formula	:	$C_4H_8O_2$
Molecular weight	:	88.11 g/mol
CAS-No.	:	123-91-1
EC-No.	:	204-661-8
Index-No.	:	603-024-00-5
Registration number	:	01-2119462837-26-XXXX

Hazardous components

Component	Classification	Concentration
1,4-Dioxane		
	Flam. Liq. 2; Eye Irrit. 2A; Carc. 2; STOT SE 3; H225, H319, H335, H351	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
1,4-Dioxane	123-91-1	TWA	20.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Liver damage Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		TWA	20 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Liver damage Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		TWA	25 ppm 90 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		Skin notation		
		TWA	100.000000 ppm 360.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation The value in mg/m3 is approximate.		
		TWA	100 ppm 360 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation The value in mg/m3 is approximate.		
		C	1.000000 ppm 3.600000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A 30 minute ceiling value		

Derived No Effect Level (DNEL)

Application Area	Exposure routes	Health effect	Value
Workers	Inhalation	Long-term local effects	144 mg/m3
Workers	Inhalation	Long-term systemic effects	73 mg/m3
Workers	Skin contact	Long-term systemic effects	21 mg/m3

Predicted No Effect Concentration (PNEC)

Compartment	Value
Soil	0.153 mg/kg
Marine water	0.67 mg/l
Fresh water	10 mg/l
Fresh water sediment	37 mg/kg
Sewage treatment plant	2700 mg/l
Aquatic intermittent release	10 mg/l

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: butyl-rubber
Minimum layer thickness: 0.3 mm
Break through time: 480 min
Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact
Material: Chloroprene
Minimum layer thickness: 0.6 mm
Break through time: 35 min
Material tested:Camapren® (KCL 722 / Aldrich Z677493, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	6.0 - 8 at 500 g/l at 20 °C (68 °F)
e)	Melting point/freezing point	Melting point/range: 10 - 12 °C (50 - 54 °F) - lit.
f)	Initial boiling point and boiling range	100 - 102 °C (212 - 216 °F) - lit.
g)	Flash point	12 °C (54 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 22 %(V) Lower explosion limit: 2 %(V)
k)	Vapour pressure	36 hPa (27 mmHg) at 20 °C (68 °F) 53 hPa (40 mmHg) at 25.20 °C (77.36 °F)
l)	Vapour density	3.04 - (Air = 1.0)

m)	Relative density	1.034 g/cm3 at 25 °C (77 °F)
n)	Water solubility	completely miscible
o)	Partition coefficient: n-octanol/water	log Pow: -0.27
p)	Auto-ignition temperature	300 °C (572 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Surface tension	36.9 mN/m at 25 °C (77 °F)
Relative vapour density	3.04 - (Air = 1.0)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.
Test for peroxide formation before distillation or evaporation. Test for peroxide formation or discard after 1 year.
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Oxygen, Oxidizing agents, Halogens, Reducing agents, Perchlorates., Trimethylaluminum

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 4,200 mg/kg

LC50 Inhalation - Rat - 2 h - 46,000 mg/m3
Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Other.

LD50 Dermal - Rabbit - 7,858 mg/kg

No data available

Skin corrosion/irritation
Skin - Human
Remarks: Chronic exposure causes drying effect on the skin and eczema.

Skin - Rabbit
Result: No skin irritation

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Eye irritation - 24 h

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
Laboratory experiments have shown mutagenic effects.

Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC:	2B - Group 2B: Possibly carcinogenic to humans (1,4-Dioxane)
NTP:	Reasonably anticipated to be a human carcinogen (1,4-Dioxane)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: JG8225000

Nausea, Vomiting, Weakness, Dizziness, Vertigo, Headache, Sweating, loss of appetite, Kidney injury may occur., Liver injury may occur.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver - Irregularities - Based on Human Evidence
Liver - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 985 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 8,450 mg/l - 24 h
Toxicity to algae	EC50 - Desmodesmus subspicatus (green algae) - > 500 mg/l - 72 h

12.2 Persistence and degradability

Biodegradability	Result: < 5 % - Not readily biodegradable.

12.3 Bioaccumulative potential
Does not bioaccumulate.

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1165 Class: 3 Packing group: II
Proper shipping name: Dioxane
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1165 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: DIOXANE

IATA
UN number: 1165 Class: 3 Packing group: II
Proper shipping name: Dioxane

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
1,4-Dioxane	123-91-1	2007-07-01

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
1,4-Dioxane	123-91-1	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
1,4-Dioxane	123-91-1	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
1,4-Dioxane	123-91-1	2007-07-01

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. 1,4-Dioxane	123-91-1	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
STOT SE	Specific target organ toxicity - single exposure

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.4 Revision Date: 03/03/2015 Print Date: 04/11/2016

SAFETY DATA SHEET

Creation Date 13-Apr-2009 **Revision Date** 24-Dec-2021 **Revision Number** 7

1. Identification

Product Name **2-Butanone**

Cat No. : **AC149670000; AC149670010; AC149670025; AC149670051; AC149670250; AC149670251**

CAS No 78-93-3
Synonyms Methyl ethyl ketone; MEK; Ethyl methyl ketone

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company
Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Central nervous system (CNS).	
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Kidney, Liver.	

Label Elements

Signal Word
Danger

Hazard Statements

Highly flammable liquid and vapor
Causes serious eye irritation
May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure

Precautionary Statements
Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Wear protective gloves/protective clothing/eye protection/face protection
Keep cool
Response
Get medical attention/advice if you feel unwell
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell
Skin
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Fire
In case of fire: Use CO2, dry chemical, or foam for extinction
Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Repeated exposure may cause skin dryness or cracking
Other hazards
Contains a known or suspected endocrine disruptor.

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Methyl ethyl ketone	78-93-3	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

Inhalation Remove to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial respiration.

Ingestion Do NOT induce vomiting. Get medical attention.

Most important symptoms and effects Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media CO_2, dry chemical, dry sand, alcohol-resistant foam. Water mist may be used to cool closed containers.

Unsuitable Extinguishing Media Water may be ineffective

Flash Point -7 °C / 19.4 °F

Method - CC (closed cup)

Autoignition Temperature 404 °C / 759.2 °F

Explosion Limits
Upper 11.4 vol %
Lower 1.4 vol %

Oxidizing Properties Not oxidising

Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Carbon monoxide (CO). Carbon dioxide (CO_2).
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	3	1	N/A

6. Accidental release measures

Personal Precautions Use personal protective equipment as required. Remove all sources of ignition. Take precautionary measures against static discharges. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation.

Environmental Precautions Avoid release to the environment. See Section 12 for additional Ecological Information.

Methods for Containment and Clean Up Remove all sources of ignition. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Use spark-proof tools and explosion-proof equipment.

7. Handling and storage

Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Use spark-proof tools and explosion-proof equipment. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

Storage.

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Flammables area. Incompatible Materials. Strong oxidizing agents. Strong acids. Strong bases. Strong reducing agents. Ammonia. copper. Amines.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Methyl ethyl ketone	TWA: 200 ppm STEL: 300 ppm	(Vacated) TWA: 200 ppm (Vacated) TWA: 590 mg/m^3 (Vacated) STEL: 300 ppm (Vacated) STEL: 885 mg/m^3 TWA: 200 ppm TWA: 590 mg/m^3	IDLH: 3000 ppm TWA: 200 ppm TWA: 590 mg/m^3 STEL: 300 ppm STEL: 885 mg/m^3	TWA: 200 ppm STEL: 300 ppm

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	Characteristic - sweet
Odor Threshold	No information available
pH	No information available
Melting Point/Range	-87 °C / -124.6 °F
Boiling Point/Range	80 °C / 176 °F
Flash Point	-7 °C / 19.4 °F
Method -	CC (closed cup)

Evaporation Rate	3.7
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	11.4 vol %
Lower	1.4 vol %
Vapor Pressure	105 mbar @ 20 °C
Vapor Density	2.41
Specific Gravity	0.806
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	404 °C / 759.2 °F
Decomposition Temperature	No information available
Viscosity	0.42 mPa.s @ 15°C
Molecular Formula	C4 H8 O
Molecular Weight	72.11

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Hygroscopic.

Conditions to Avoid Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition. Exposure to moist air or water.

Incompatible Materials Strong oxidizing agents, Strong acids, Strong bases, Strong reducing agents, Ammonia, copper, Amines

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methyl ethyl ketone	LD50 = 2483 mg/kg (Rat)	LD50 = 5000 mg/kg (Rabbit)	LC50 = 11700 ppm (Rat) 4 h

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Methyl ethyl ketone	78-93-3	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects Not mutagenic in AMES Test

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Central nervous system (CNS)
STOT - repeated exposure Kidney Liver

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Methyl ethyl ketone	Not listed	Lepomis macrochirus: LC50=3,22 g/L 96 h	EC50 = 3403 mg/L 30 min EC50 = 3426 mg/L 5 min	EC50: = 5091 mg/L, 48h (Daphnia magna) EC50: 4025 - 6440 mg/L, 48h Static (Daphnia magna) EC50: > 520 mg/L, 48h (Daphnia magna)

Persistence and Degradability Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its volatility.

Component	log Pow
Methyl ethyl ketone	0.29

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Methyl ethyl ketone - 78-93-3	U159	-

14. Transport information

DOT

UN-No UN1193
Proper Shipping Name Ethyl methyl ketone
Hazard Class 3
Packing Group II

TDG

UN-No UN1193
Proper Shipping Name ETHYL METHYL KETONE
Hazard Class 3
Packing Group II

IATA

UN-No UN1193
Proper Shipping Name Methyl ethyl ketone
Hazard Class 3

Packing Group II

IMDG/IMO

UN-No UN1193
Proper Shipping Name Ethyl methyl ketone (Methyl ethyl ketone)
Hazard Class 3
Packing Group II

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Methyl ethyl ketone	78-93-3	X	ACTIVE	-

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories
Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Methyl ethyl ketone	78-93-3	X	-	201-159-0	X	X	X	X	X	KE-24094

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Methyl ethyl ketone	5000 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Methyl ethyl ketone	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade Serious risk, Grade 3

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Methyl ethyl ketone	-	Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Methyl ethyl ketone	78-93-3	Listed	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Methyl ethyl ketone	78-93-3	Not applicable	Not applicable	Not applicable	Annex I - Y42

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 13-Apr-2009
Revision Date 24-Dec-2021
Print Date 24-Dec-2021
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Version 5.1
Revision Date 06/26/2014
Print Date 05/11/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	4,4′-DDD
Product Number	:	35486
Brand	:	Sigma-Aldrich
CAS-No.	:	72-54-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Dermal (Category 4), H312
Carcinogenicity (Category 2), H351
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.

P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P322	Specific measures (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	1,1-Dichloro-2,2-bis(4-chlorophenyl)ethane TDE
Formula	:	$C_{14}H_{10}Cl_4$
Molecular Weight	:	320.04 g/mol
CAS-No.	:	72-54-8
EC-No.	:	200-783-0

Hazardous components

Component	Classification	Concentration
2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane		
	Acute Tox. 3; Acute Tox. 4; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H301, H312, H351, H410	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen chloride gas
Nature of decomposition products not known.

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	pH	no data available
e)	Melting point/freezing point	94.0 - 96.0 °C (201.2 - 204.8 °F)
f)	Initial boiling point and boiling range	193.0 °C (379.4 °F) at 1.3 hPa (1.0 mmHg)
g)	Flash point	no data available
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	< 0.00001 hPa (< 0.00001 mmHg) at 25.0 °C (77.0 °F)
l)	Vapour density	no data available
m)	Relative density	1.38 g/cm3
n)	Water solubility	no data available
o)	Partition coefficient: n-octanol/water	log Pow: 6.02
p)	Auto-ignition temperature	no data available
q)	Decomposition temperature	no data available
r)	Viscosity	no data available
s)	Explosive properties	no data available
t)	Oxidizing properties	no data available

9.2 Other safety information
no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
no data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
no data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - no data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Hamster - > 5,000 mg/kg

TDLo Oral - Human - 428.5 mg/kg
Remarks: Endocrine:Adrenal cortex hypoplasia.

TDLo Oral - rat - 6,000 mg/kg
Remarks: Cardiac:Other changes. Gastrointestinal:Other changes. Kidney, Ureter, Bladder:Changes in both tubules and glomeruli.

TDLo Oral - rat - 14 mg/kg
Remarks: Liver:Changes in liver weight. Endocrine:Estrogenic. Musculoskeletal:Other changes.

TDLo Oral - rat - 2,100 mg/kg
Remarks: Behavioral:Altered sleep time (including change in righting reflex).

Inhalation: no data available

LD50 Dermal - rabbit - 1,200 mg/kg
Remarks: Behavioral:Excitement. Behavioral:Convulsions or effect on seizure threshold. Skin irritation

no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitisation
no data available

Germ cell mutagenicity
no data available

Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
no data available

no data available

Specific target organ toxicity - single exposure
no data available

Specific target organ toxicity - repeated exposure
no data available

Aspiration hazard
no data available

Additional Information
RTECS: KI0700000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - other fish - 1.18 - 9 mg/l - 96.0 h
	LC50 - Lepomis macrochirus (Bluegill) - 0.04 - 0.05 mg/l - 96.0 h
	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.06 - 0.09 mg/l - 96.0 h
	LC50 - Pimephales promelas (fathead minnow) - 3.47 - 5.58 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia pulex (Water flea) - 0.01 mg/l - 48 h

12.2 Persistence and degradability
no data available

12.3 Bioaccumulative potential
Indication of bioaccumulation.

12.4 Mobility in soil
no data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solids, organic, n.o.s. (2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane)
Reportable Quantity (RQ): 1 lbs
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG
UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane)
Marine pollutant: No

IATA
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solid, organic, n.o.s. (2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane)

15. REGULATORY INFORMATION

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane	72-54-8	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane	72-54-8	1993-04-24

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
2,2-bis(4-Chlorophenyl)-1,1-dichloro-ethane	72-54-8	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.1 Revision Date: 06/26/2014 Print Date: 05/11/2016

SAFETY DATA SHEET

Version 5.4
Revision Date 01/02/2015
Print Date 12/11/2015

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Acenaphthene
Product Number	:	215376
Brand	:	Aldrich
CAS-No.	:	83-32-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Carcinogenicity (Category 1B), H350
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H350	May cause cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear eye protection/ face protection.
P280	Wear protective gloves.
P281	Use personal protective equipment as required.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : 1,8-Ethylenenaphthalene

Formula : $C_{12}H_{10}$
Molecular weight : 154.21 g/mol
CAS-No. : 83-32-9
EC-No. : 201-469-6

Hazardous components

Component	Classification	Concentration
Acenaphthene		
	Skin Irrit. 2; Eye Irrit. 2A; Carc. 1B; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1; H315, H319, H335, H350, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 90 - 94 °C (194 - 201 °F) - lit.
f)	Initial boiling point and boiling range	279 °C (534 °F) - lit.
g)	Flash point	125.0 °C (257.0 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available

k)	Vapour pressure	13.3 hPa (10.0 mmHg) at 131.0 °C (267.8 °F)
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 3.39 - 4.19
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

LD50 Intraperitoneal - Rat - 600 mg/kg

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Acenaphthene)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: Reasonably anticipated to be a human carcinogen (Acenaphthene)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: AB1000000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.67 mg/l - 96.0 h
	LC50 - Pimephales promelas (fathead minnow) - 0.6 - 1.73 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 1.27 - 3.45 mg/l - 48 h
Toxicity to algae	EC50 - Pseudokirchneriella subcapitata (green algae) - 0.52 - 0.53 mg/l - 96 h

12.2 Persistence and degradability

12.3 Bioaccumulative potential

Bioaccumulation	Lepomis macrochirus (Bluegill) - 28 d - 0.00894 mg/l
	Bioconcentration factor (BCF): 387

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Acenaphthene)
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Acenaphthene)
Marine pollutant:yes
IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Acenaphthene)

Further information
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Acenaphthene	83-32-9	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Acenaphthene	83-32-9	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Acenaphthene	83-32-9	1993-04-24

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Acenaphthene	83-32-9	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	1
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	1
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.4 Revision Date: 01/02/2015 Print Date: 12/11/2015

SAFETY DATA SHEET

Revision Date 10-Feb-2015 **Revision Number** 1

1. Identification

Product Name **Poly(acenaphthylene)**

Cat No. : **AC178020000; AC178020050; AC178020100**

Synonyms None.

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements
None required

Hazards not otherwise classified (HNOC)
None identified
Unknown Acute Toxicity
.? % of the mixture consists of ingredients of unknown toxicity.

3. Composition / information on ingredients

Component	CAS-No	Weight %
Poly(acenaphthylene)	25036-01-5	100

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

Inhalation Remove from exposure, lie down. Move to fresh air.

Ingestion Do not induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. If possible drink milk afterwards.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO_2). Dry chemical. alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Thermal decomposition can lead to release of irritating gases and vapors Carbon monoxide (CO) Carbon dioxide (CO_2)
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
0	0	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions See Section 12 for additional ecological information.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. Handling and storage

Handling Avoid contact with skin and eyes. Avoid contact with clothing. Remove and wash contaminated clothing before re-use. Avoid breathing vapors or mists. Do not ingest. Wash thoroughly after handling.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ventilation systems.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Yellow
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Oxidizing agents

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors, Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization No information available.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information No acute toxicity information is available for this product

Oral LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Dermal LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Mist LC50 Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.
Component Information
Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Poly(acenaphthylene)	25036-01-5	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available
Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity
Do not empty into drains.

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility No information available.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT Not regulated
TDG Not regulated
IATA Not regulated
IMDG/IMO Not regulated

15. Regulatory information

International Inventories

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class Non-controlled

16. Other information

Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date	10-Feb-2015
Print Date	10-Feb-2015
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Version 6.11
Revision Date 09/06/2024
Print Date 09/07/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Acetone

Product Number : 179124
Brand : SIGALD
Index-No. : 606-001-00-8
CAS-No. : 67-64-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

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For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram	
Signal Word	Danger
Hazard Statements	
H225	Highly flammable liquid and vapor.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
Precautionary Statements	
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing mist or vapors.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	C_3H_6O
Molecular weight	:	58.08 g/mol
CAS-No.	:	67-64-1
EC-No.	:	200-662-2
Index-No.	:	606-001-00-8

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Component	Classification	Concentration
acetone		
	Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3; H225, H319, H336 Concentration limits: >= 20 %: STOT SE 3, H336;	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Carbon dioxide (CO2) Foam Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

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5.2 Special hazards arising from the substance or mixture

Carbon oxides
Combustible.
Pay attention to flashback.
Vapors are heavier than air and may spread along floors.
Development of hazardous combustion gases or vapours possible in the event of fire.
Forms explosive mixtures with air at ambient temperatures.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition.
Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®).
Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.

Hygiene measures
Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

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Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Storage class
Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
acetone	67-64-1	TWA	250 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Not classifiable as a human carcinogen		
		STEL	500 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Not classifiable as a human carcinogen		
		TWA	250 ppm 590 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1,000 ppm 2,400 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		C	3,000 ppm	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		PEL	500 ppm 1,200 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		STEL	750 ppm 1,780 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
acetone	67-64-1	Acetone	25 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			

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Derived No Effect Level (DNEL)

Application Area	Routes of exposure	Health effect	Value
Workers	Skin contact	Long-term systemic effects	186mg/kg BW/d
Consumers	Ingestion	Long-term systemic effects	62mg/kg BW/d
Consumers	Skin contact	Long-term systemic effects	62mg/kg BW/d
Workers	Inhalation	Acute systemic effects	2420 mg/m3
Workers	Inhalation	Long-term systemic effects	1210 mg/m3
Consumers	Inhalation	Long-term systemic effects	200 mg/m3

Predicted No Effect Concentration (PNEC)

Compartment	Value
Soil	33.3 mg/kg
Sea water	1.06 mg/l
Fresh water	10.6 mg/l
Sea sediment	3.04 mg/kg
Fresh water sediment	30.4 mg/kg
Onsite sewage treatment plant	100 mg/l

8.2 Exposure controls

Appropriate engineering controls
Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: butyl-rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Butoject® (KCL 898)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: Latex gloves
Minimum layer thickness: 0.6 mm
Break through time: 10 min
Material tested:Lapren® (KCL 706 / Aldrich Z677558, Size M)

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Body Protection
Flame retardant antistatic protective clothing.

Respiratory protection
Recommended Filter type: Filter type AX
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when vapours/aerosols are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Color: colorless
b)	Odor	pungent, weakly aromatic
c)	Odor Threshold	0.1 ppm
d)	pH	5 - 6 at 395 g/l at 20 °C (68 °F)
e)	Melting point/freezing point	Melting point/ range: -94 °C (-137 °F) - lit.
f)	Initial boiling point and boiling range	56 °C 133 °F at 1,013 hPa - lit.
g)	Flash point	-17.0 °C (1.4 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 13 %(V) Lower explosion limit: 2 %(V)
k)	Vapor pressure	245.3 hPa at 20.0 °C (68.0 °F)
l)	Vapor density	No data available
m)	Density	0.791 g/cm3 at 25 °C (77 °F) - lit.
	Relative density	No data available
n)	Water solubility	soluble, in all proportions
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition	465.0 °C (869.0 °F)

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	temperature	
q)	Decomposition temperature	Distillable in an undecomposed state at normal pressure.
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information

Conductivity	0.01 µS/cm at 20 °C (68 °F)
Surface tension	23.2 mN/m at 20.0 °C (68.0 °F)

SECTION 10: Stability and reactivity

10.1 Reactivity

Vapors may form explosive mixture with air.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Risk of ignition or formation of inflammable gases or vapours with:
chromosulfuric acid
chromyl chloride
ethanolamine
Fluorine
Strong oxidizing agents
strong reducing agents
Nitric acid
chromium(VI) oxide
Risk of explosion with:
nonmetallic oxyhalides
halogen-halogen compounds
Chloroform
nitrating acid
nitrosyl compounds
hydrogen peroxide
halogen oxides
organic nitro compounds
peroxi compounds
Exothermic reaction with:
Bromine
Alkali metals
alkali hydroxides
Halogenated hydrocarbon
Sulfur dichloride
phosphorous oxichloride

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10.4 Conditions to avoid
Warming.

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - female - 5,800 mg/kg
Remarks: (ECHA)
Symptoms: Stomach/intestinal disorders, Risk of aspiration upon vomiting., Pulmonary failure possible after aspiration of vomit.
LC50 Inhalation - Rat - 4 h - 76 mg/l - vapor

Remarks: Unconsciousness
Drowsiness
Dizziness
(External MSDS)
LD50 Dermal - Rabbit - 20,000 mg/kg
Remarks: (IUCLID)

Skin corrosion/irritation
Skin - Rabbit
Result: Mild skin irritation - 24 h
(Draize Test)
Remarks: (RTECS)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Eye irritation - 24 h
(Draize Test)
Remarks: (RTECS)

Respiratory or skin sensitization
Maximization Test - Guinea pig
Result: negative
Remarks: (ECHA)
Chronic exposure may cause dermatitis.

Germ cell mutagenicity
Test Type: Mutagenicity (mammal cell test): chromosome aberration.
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation

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Method: OECD Test Guideline 471
Result: negative
Test Type: In vitro mammalian cell gene mutation test
Test system: Mouse lymphoma test
Metabolic activation: without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
Inhalation - May cause drowsiness or dizziness. - Narcotic effects
Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

RTECS: AL3150000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After absorption:

Headache
Salivation
Nausea
Vomiting
Dizziness
narcosis
Coma

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Kidney - Irregularities - Based on Human Evidence

Skin - Dermatitis - Based on Human Evidence

Kidney - Irregularities - Based on Human Evidence

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Skin - Dermatitis - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Pimephales promelas (fathead minnow) - 6,210 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test LC50 - Daphnia pulex (Water flea) - 8,800 mg/l - 48 h Remarks: (ECHA)
Toxicity to algae	static test NOEC - M.aeruginosa - 530 mg/l - 8 d (DIN 38412) Remarks: (maximum permissible toxic concentration) (IUCLID)
Toxicity to bacteria	static test EC50 - activated sludge - 61.15 mg/l - 30 min (OECD Test Guideline 209)
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	flow-through test NOEC - Daphnia magna (Water flea) - 2,212 mg/l - 28 d Remarks: (ECHA)

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 28 d Result: 91 % - Readily biodegradable. (OECD Test Guideline 301B)
Biochemical Oxygen Demand (BOD)	1,850 mg/g Remarks: (IUCLID)
Chemical Oxygen Demand (COD)	2,070 mg/g Remarks: (IUCLID)
Theoretical oxygen demand	2,200 mg/g Remarks: (Lit.)

12.3 Bioaccumulative potential

Does not bioaccumulate.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

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12.7 Other adverse effects

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)
UN number: 1090 Class: 3 Packing group: II
Proper shipping name: Acetone
Reportable Quantity (RQ): 5000 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 1090 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: ACETONE

IATA
UN number: 1090 Class: 3 Packing group: II
Proper shipping name: Acetone

SECTION 15: Regulatory information

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
acetone	67-64-1	5000	5000

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard
Chronic Health Hazard

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SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

acetone	67-64-1

Pennsylvania Right To Know

acetone	67-64-1

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.11 Revision Date: 09/06/2024 Print Date: 09/07/2024

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Safety Data Sheet

Revision Date: 10/21/14
www.restek.com

1. IDENTIFICATION

Catalog Number / Product Name:	**32205, 32205-5XX, & 32305 / Aldrin Standard**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	sds@restek.com
Revision Number:	5
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:

GHS Classification:

Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1
Flammable Liquid Category 2
Acute Toxicity - Inhalation Dust / Mist Category 3
Acute Toxicity - Inhalation Vapour Category 3
Acute Toxicity - Inhalation Gas Category 3
Acute Toxicity - Dermal Category 3
Acute Toxicity - Oral Category 3

GHS Signal Word: Danger

GHS Hazard:

Highly flammable liquid and vapour.
Toxic if swallowed, in contact with skin or if inhaled.
Toxic if inhaled.
Causes damage to organs.

GHS Precautions:

Safety Precautions:

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilation and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Do no eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures:

IF SWALLOWED: Immediately call a POISON CENTER/doctor/....
IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF exposed: Call a POISON CENTER or doctor/physician.
Call a POISON CENTER or doctor/physician if you feel unwell.
Specific treatment see section 4.

	Specific measures see section 4. Rinse mouth. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. In case of fire: Use extinguishing media in section 5 for extinction.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal:	Dispose of contents/container according to section 13 of the SDS.
Single Exposure Target Organs:	No data available.
Repeated Exposure Target Organs:	No data available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS #	EINEC #	% Composition
methanol	67-56-1	200-659-6	99.900000
aldrin	309-00-2	206-215-8	0.100000

4. FIRST-AID MEASURES

Inhalation:	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately
Eyes:	Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.
Skin Contact:	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
Ingestion:	Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.
Fire and/or Explosion Hazards:	Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.
Fire Fighting Methods and Protection:	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment:	Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.
Methods for Clean-up:	Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal

protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
aldrin	309-00-2	ND		0.05 mg/m3 TWA (inhalable fraction and vapor)	0.25 mg/m3 TWA

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color: No data available.
Odor: Mild
Physical State: No data available.
pH: No data available
Vapor Density: 1.1 (air = 1)
Melting Point: -98 °C
Flash Point: 52
Flammability: Highly Flammable
Upper Flammable/Explosive Limit, % in air: 36.0
Lower Flammable/Explosive Limit, % in air: 6.0
Autoignition Temperature: 464 deg C
Decomposition Temperature: No data available.
Specific Gravity: 0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate: No data available.
Odor Threshold: No data available.
Solubility: Moderate; 50-99%
Partition Coefficient: n-octanol in water: No data available.
VOC % by weight: 99.90
Molecular Weight: 32.04

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Conditions to Avoid: No data available.
Materials to Avoid / Chemical Incompatiability: Strong oxidizing agents
Hazardous Decomposition Products: Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation, Skin Contact, Eye Contact, Ingestion

Target Organs Potentially Affected By Exposure: Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract

Chemical Interactions That Change Toxicity: None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

Inhalation Toxicity: Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.

Skin Contact: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Eye Contact: Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

Ingestion Irritation: Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.

Ingestion Toxicity: Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity: Contains a probable or known human carcinogen.

Reproductive and Developmental Toxicity: Contains a known human reproductive and/or developmental hazard.

Inhalation: Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)

Skin Contact: Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Ingestion: Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:

NIOSH:

Chemical Name	CAS No.	LD50/LC50
Methanol	67-56-1	Oral LD50 Rat 5628 mg/kg (Source: NLM_CIP); Inhalation LC50 Rat 83.2 mg/L 4 h (Source: IUCLID)

Component Carcinogenic Data:

OSHA:

Chemical Name	CAS No.
No data available.	

ACGIH:

Chemical Name	CAS No.
No data available.	

NIOSH:

Chemical Name	CAS No.
No data available.	

NTP:

Chemical Name	CAS No.
No data available.	

IARC:

Chemical Name	CAS No.	Group No.
No data.		Group 1
No data.		Group 2A
No data.		Group 2B

12. ECOLOGICAL INFORMATION

Overview: Moderate ecological hazard. This product may be dangerous

	to plants and/or wildlife.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	Biodegrades slowly.
Ecological Toxicity Data:	No data available.

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:	
DOT Proper Shipping Name:	Methanol
UN Number:	UN1230
Hazard Class:	3
Packing Group:	II
International:	
IATA Proper Shipping Name:	Methanol
UN Number:	UN1230
Hazard Class:	3 (6.1)
Packing Group:	II
Marine Pollutant:	No

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
methanol	67-56-1	X	X	-	X
aldrin	309-00-2	X	X	X	-

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Aldrin	309-00-2	Prop 65 Cancer
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
methanol	67-56-1	X	X	X	X
aldrin	309-00-2	X	X	X	X

16. OTHER INFORMATION

Prior Version Date: 03/23/11

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding prodcuts described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

SAFETY DATA SHEET

Version 5.8
Revision Date 06/02/2016
Print Date 08/02/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	α-BHC
Product Number	:	48493
Brand	:	Supelco
Index-No.	:	602-042-00-0
CAS-No.	:	319-84-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	+1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Dermal (Category 4), H312
Carcinogenicity (Category 2), H351
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing.
P281	Use personal protective equipment as required.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : α-1,2,3,4,5,6-Hexachlorocyclohexane

Formula : $C_6H_6Cl_6$
Molecular weight : 290.83 g/mol
CAS-No. : 319-84-6
EC-No. : 206-270-8
Index-No. : 602-042-00-0

Hazardous components

Component	Classification	Concentration
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane		
	Acute Tox. 3; Acute Tox. 4; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H301, H312, H351, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	156.0 - 161.0 °C (312.8 - 321.8 °F)
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 3.80
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 177.0 mg/kg

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC:	2B - Group 2B: Possibly carcinogenic to humans ((1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)
IARC:	2B - Group 2B: Possibly carcinogenic to humans ((1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	Reasonably anticipated to be a human carcinogen ((1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)
NTP:	Reasonably anticipated to be a human carcinogen ((1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: GV3500000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Carassius auratus (goldfish) - 0.12 mg/l - 48.0 h
	LC50 - Cyprinus carpio (Carp) - 0.2 mg/l - 48.0 h
	LC50 - other fish - 1.49 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.20 - 1.70 mg/l - 48 h
Toxicity to algae	EC50 - No information available. - > 100.00 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

Bioaccumulation	other fish - 96 h - 0.8 mg/l Bioconcentration factor (BCF): 250

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solids, organic, n.o.s. ((1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)
Reportable Quantity (RQ): 10 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. ((1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)

IATA
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solid, organic, n.o.s. ((1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	319-84-6	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	319-84-6	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	319-84-6	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
(1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	319-84-6	2007-07-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. (1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	CAS-No. 319-84-6	Revision Date 2009-02-01
WARNING! This product contains a chemical known to the State of California to cause cancer. (1α,2α,3β,4α,5β,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	CAS-No. 319-84-6	Revision Date 2009-02-01

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity

Carc.	Carcinogenicity
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0
Health hazard:	1
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.8 Revision Date: 06/02/2016 Print Date: 08/02/2019

SAFETY DATA SHEET

Version 4.8
Revision Date 05/03/2017
Print Date 07/13/2017

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	α-Chlordane
Product Number	:	442449
Brand	:	Supelco

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	+1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 4), H332
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Carcinogenicity (Category 2), H351
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Warning

Hazard statement(s)

H302 + H332	Harmful if swallowed or if inhaled
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.

P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Molecular weight : 409.8 g/mol
EC-No. : 225-825-5

Hazardous components

Component	Classification	Concentration
Chlordane		
	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; Carc. 2; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1; H302 + H332, H315, H319, H335, H351, H410	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.
Hazardous components without workplace control parameters

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	93.0 - 94.0 °C (199.4 - 201.2 °F)
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available

i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 500 mg/kg

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Chlordane)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 - Lepomis macrochirus (Bluegill) - 0.0074 mg/l - 96 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
Bioaccumulation Lepomis macrochirus (Bluegill) - 24 h
- 0.005 mg/l

Bioconcentration factor (BCF): 322

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Chlordane)
Reportable Quantity (RQ): Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Chlordane)
Marine pollutant:yes

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Chlordane)

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Chlordane	5103-71-9	

	CAS-No.	Revision Date
Chlordane	5103-71-9	

New Jersey Right To Know Components

	CAS-No.	Revision Date
Chlordane	5103-71-9	

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H302	Harmful if swallowed.
H302 + H332	Harmful if swallowed or if inhaled
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.8 Revision Date: 05/03/2017 Print Date: 07/13/2017

SAFETY DATA SHEET
Aluminum (pieces)

1. Identification

Product identifier

Product name Aluminum (pieces)

Internal identification Replaces M-1000-010

CAS number 7429-90-5

Recommended use of the chemical and restrictions on use

Application Exterior surface coating.

Uses advised against No specific uses advised against are identified.

Details of the supplier of the safety data sheet

Supplier Kurt J Lesker Company

Manufacturer

Kurt J Lesker Company
1925 Route 51
Jefferson Hills, PA 15025
+1 412-387-9200

Kurt J Lesker Company LTD
United Kingdom
15-16 Burgess Road
Hastings, East Sussex, TN35 4NR
England
Customer Service: +44 (0) 1424 458100
msds@lesker.com

Emergency telephone number

Emergency telephone

North America [USA, Canada, Mexico]: 1-866-519-4752
Mainland China: (+86) 4001 2001 74
Europe: {int'l call prefix}-1-760-476-3961
Asia Pacific: {int'l call prefix}-1-760-476-3960
Middle East & Africa: {int'l call prefix}-1-760-476-3959

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Label elements

Hazard statements NC Not Classified

Other hazards

Aluminum (pieces)

This product does not contain any substances classified as PBT or vPvB. Based on available knowledge of this material, it has been determined to be non-hazardous and will not pose a risk to persons or the environment in its provided form. However, any cutting, welding, melting, grinding, or use for deposition will produce dust, fume, or particulates containing component elements of this material. Exposure to these components may present significant health hazards. Note: Fine particulate may be a combustible dust which, when dispersed in air, may present an explosion hazard.

3. Composition/information on ingredients

Mixtures

Aluminum (pieces) CAS number: 7429-90-5	**0 - 100%**
Classification Not Classified	

The full text for all hazard statements is displayed in Section 16.

4. First-aid measures

Description of first aid measures

General information	If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.
Ingestion	Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.
Skin Contact	Rinse with water.
Eye contact	Rinse with water. Get medical attention if any discomfort continues.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

Most important symptoms and effects, both acute and delayed

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	No specific symptoms known.
Ingestion	No specific symptoms known.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	No specific symptoms known. May be slightly irritating to eyes.

Indication of immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water, if avoidable.

Aluminum (pieces)

Special hazards arising from the substance or mixture

Specific hazards Reacts with water. Flammable solid. Dust may form explosive mixture with air. Fire-water run-off in sewers may create fire or explosion hazard.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapors. Evacuate area. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes contaminated.

Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Do not allow material to enter confined spaces, due to the risk of explosion. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. The product is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from oxidizing materials, heat and flames. Avoid contact with water. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

Aluminum (pieces)

Storage class Water-reactive storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

Aluminum (pieces)

Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³ respirable fraction
as Al
Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust
as Al
Long-term exposure limit (8-hour TWA): ACGIH 1 mg/m³ respirable fraction
A4
OSHA = Occupational Safety and Health Administration.
ACGIH = American Conference of Governmental Industrial Hygienists.
A4 = Not Classifiable as a Human Carcinogen.

Exposure controls

Protective equipment

Appropriate engineering controls Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

Hand protection No specific hand protection recommended.

Other skin and body protection Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

Respiratory protection Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.

Environmental exposure controls Keep container tightly sealed when not in use.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Solid.

Color Silver.

Odor No characteristic odor.

Odor threshold Not applicable.

Aluminum (pieces)

pH	Not applicable.
Melting point	660°C
Initial boiling point and range	Not available.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	2.70 @ 25°C
Bulk density	Not available.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not available.
Viscosity	Not applicable.
Molecular weight	26.98

10. Stability and reactivity

Reactivity	There are no known reactivity hazards associated with this product.
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
Possibility of hazardous reactions	Reacts strongly with water. The following materials may react strongly with the product: Oxidizing agents.
Conditions to avoid	Avoid heat, flames and other sources of ignition. Static electricity and formation of sparks must be prevented.
Materials to avoid	Water. Oxidizing materials. Acids - oxidizing.
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

Notes (oral LD_{50}) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD_{50}) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Aluminum (pieces)

Notes (inhalation LC_{50})	Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data	Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation	Based on available data the classification criteria are not met.

Respiratory sensitization

Respiratory sensitization	Based on available data the classification criteria are not met.

Skin sensitization

Skin sensitization	Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro	Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity	Based on available data the classification criteria are not met.
IARC carcinogenicity	None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard	Not relevant. Solid.

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	No specific symptoms known.
Ingestion	No specific symptoms known.
Skin Contact	Prolonged contact may cause dryness of the skin.
Eye contact	No specific symptoms known.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target Organs	No specific target organs known.

12. Ecological Information

Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
Toxicity	Based on available data the classification criteria are not met.

Persistence and degradability

Aluminum (pieces)

Persistence and degradability Reacts with water.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient Not applicable.

Mobility in soil

Mobility No data available.

Other adverse effects

Other adverse effects None known.

13. Disposal considerations

Waste treatment methods

General information The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

UN Number

Not applicable.

UN proper shipping name

Not applicable.

Transport hazard class(es)

No transport warning sign required.

Transport labels
No transport warning sign required.

DOT transport labels
No transport warning sign required.

Packing group

Not applicable.

Environmental hazards

Environmentally Hazardous Substance
No.

Special precautions for user

Aluminum (pieces)

Based on available knowledge of this material, it has been determined to be non-hazardous and will not pose a risk to persons or the environment in its provided form. However, any cutting, welding, melting, grinding, or use for deposition will produce dust, fume, or particulates containing component elements of this material. Exposure to these components may present significant health hazards. Note: Fine particulate may be a combustible dust which, when dispersed in air, may present an explosion hazard.

DOT TIH Zone	Not applicable.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
None of the ingredients are listed or exempt.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
None of the ingredients are listed or exempt.

SARA 313 Emission Reporting
None of the ingredients are listed or exempt.

CAA Accidental Release Prevention
None of the ingredients are listed or exempt.

FDA - Essential Chemical
None of the ingredients are listed or exempt.

FDA - Precursor Chemical
None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories
None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals
None of the ingredients are listed or exempt.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins
None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-I)
None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-II)
None of the ingredients are listed or exempt.

California Directors List of Hazardous Substances
None of the ingredients are listed or exempt.

Massachusetts "Right To Know" List
None of the ingredients are listed or exempt.

Aluminum (pieces)

Rhode Island "Right To Know" List
None of the ingredients are listed or exempt.

Minnesota "Right To Know" List
None of the ingredients are listed or exempt.

New Jersey "Right To Know" List
None of the ingredients are listed or exempt.

Pennsylvania "Right To Know" List
None of the ingredients are listed or exempt.

Inventories

US - TSCA
None of the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification
None of the ingredients are listed or exempt.

16. Other information

Training advice	Only trained personnel should use this material.
Revision date	5/9/2018
Revision	7
Supersedes date	5/9/2018
SDS No.	4661

End of SDS

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

SAFETY DATA SHEET

Version 3.12
Revision Date 11/04/2016
Print Date 12/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Ammonia
Product Number	:	294993
Brand	:	Aldrich
Index-No.	:	007-001-00-5
CAS-No.	:	7664-41-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	+1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable gases (Category 2), H221
Gases under pressure (Compressed gas), H280
Acute toxicity, Inhalation (Category 3), H331
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H221	Flammable gas.
H280	Contains gas under pressure; may explode if heated.
H314	Causes severe skin burns and eye damage.
H331	Toxic if inhaled.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P363	Wash contaminated clothing before reuse.
P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381	Eliminate all ignition sources if safe to do so.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410 + P403	Protect from sunlight. Store in a well-ventilated place.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	H_3N
Molecular weight	:	17.03 g/mol
CAS-No.	:	7664-41-7
EC-No.	:	231-635-3
Index-No.	:	007-001-00-5

Hazardous components

Component	Classification	Concentration
Ammonia, anhydrous		
	Flam. Gas 2; Press. Gas Compr. Gas; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; H221, H280, H314, H318, H331, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.Continue rinsing eyes during transport to hospital.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Contents under pressure.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Ammonia, anhydrous	7664-41-7	TWA	25.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation Eye damage		
		STEL	35.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye damage		
		TWA	50.000000 ppm 35.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		
		TWA	25.000000 ppm 18.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Often used in an aqueous solution.		
		ST	35.000000 ppm 27.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Often used in an aqueous solution.		
		TWA	25.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye damage		
		TWA	25.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye damage		
		STEL	35.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye damage		
		STEL	35.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye damage		
		TWA	25.000000 ppm 18.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Often used in an aqueous solution.		
		TWA	25.000000 ppm 18.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Often used in an aqueous solution.		
		ST	35.000000 ppm 27.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Often used in an aqueous solution.		
		ST	35.000000 ppm 27.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Often used in an aqueous solution.		

		TWA	50 ppm 35 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		
		STEL	35 ppm 27 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	25 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye damage		
		STEL	35 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye damage		
		TWA	25 ppm 18 mg/m3	USA. NIOSH Recommended Exposure Limits
		Often used in an aqueous solution.		
		ST	35 ppm 27 mg/m3	USA. NIOSH Recommended Exposure Limits
		Often used in an aqueous solution.		
		PEL	25 ppm 18 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		STEL	35 ppm 27 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: butyl-rubber
Minimum layer thickness: 0.3 mm
Break through time: 480 min
Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact
Material: butyl-rubber
Minimum layer thickness: 0.3 mm
Break through time: 480 min
Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Compressed gas
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -78 °C (-108 °F) - lit.
f)	Initial boiling point and boiling range	-33 °C (-27 °F) - lit.
g)	Flash point	132 °C (270 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 25 %(V) Lower explosion limit: 15 %(V)
k)	Vapour pressure	6,402 hPa (4,802 mmHg) at 15.50 °C (59.90 °F) 8,866 hPa (6,650 mmHg) at 21 °C (70 °F)
l)	Vapour density	0.59 - (Air = 1.0)
m)	Relative density	0.590 g/cm3
n)	Water solubility	soluble
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Relative vapour density	0.59 - (Air = 1.0)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Oxidizing agents, Iron, Zinc, Copper, Silver/silver oxides, Cadmium/cadmium oxides, Alcohols, acids, Halogens, Aldehydes

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NOx)
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

LC50 Inhalation - Rat - 4 h - 2000 ppm

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: BO0875000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver - Irregularities - Based on Human Evidence
Liver - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - 25.4 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1005 Class: 2.2
Proper shipping name: Ammonia, anhydrous
Reportable Quantity (RQ): 100 lbs
Marine pollutant:yes
Poison Inhalation Hazard: Hazard zone D

IMDG
UN number: 1005 Class: 2.3 (8) EMS-No: F-C, S-U
Proper shipping name: AMMONIA, ANHYDROUS
Marine pollutant:yes Marine pollutant: yes

IATA
UN number: 1005 Class: 2.3 (8)
Proper shipping name: Ammonia, anhydrous
IATA Passenger: Not permitted for transport

IATA Cargo: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components

The following components are subject to reporting levels established by SARA Title III, Section 302:

	CAS-No.	Revision Date
Ammonia, anhydrous	7664-41-7	2007-03-01

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Ammonia, anhydrous	7664-41-7	2007-03-01

SARA 311/312 Hazards

Sudden Release of Pressure Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Ammonia, anhydrous	7664-41-7	2007-03-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Ammonia, anhydrous	7664-41-7	2007-03-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Ammonia, anhydrous	7664-41-7	2007-03-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
Flam. Gas	Flammable gases
H221	Flammable gas.
H280	Contains gas under pressure; may explode if heated.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	3
Chronic Health Hazard:	*
Flammability:	1
Physical Hazard	1

NFPA Rating

Health hazard:	3
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.12 Revision Date: 11/04/2016 Print Date: 12/01/2016

SAFETY DATA SHEET

Version 4.9
Revision Date 04/20/2015
Print Date 12/11/2015

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Anthracene
Product Number	:	A89200
Brand	:	Aldrich
CAS-No.	:	120-12-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Warning

Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear eye protection/ face protection.

P280	Wear protective gloves.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Photosensitizer., Lachrymator.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_{14}H_{10}$
Molecular weight	:	178.23 g/mol
CAS-No.	:	120-12-7
EC-No.	:	204-371-1

Hazardous components

Component	Classification	Concentration
Anthracene Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)		
	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1; H315, H319, H335, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Anthracene	120-12-7	TWA	0.200000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	Remarks	1910.1002 As used in §1910.1000 (Table Z-1), coal tar pitch volatiles include the fused polycyclic hydrocarbons which volatilize from the distillation residues of coal, petroleum (excluding asphalt), wood, and other organic matter. Asphalt (CAS 8052-42-4, and CAS 64742-93-4) is not covered under the 'coal tar pitch volatiles' standard OSHA specifically regulated carcinogen		

		TWA	0.100000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen NIOSH considers coal tar, coal tar pitch, and creosote to be coal tar products. cyclohexane-extractable fraction See Appendix C See Appendix A		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Anthracene	120-12-7	1-Hydroxypyrene (1-HP)		Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Chloroprene
Minimum layer thickness: 0.6 mm
Break through time: 480 min
Material tested:Camapren® (KCL 722 / Aldrich Z677493, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 30 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: beige
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 210 - 215 °C (410 - 419 °F) - lit.
f)	Initial boiling point and boiling range	340 °C (644 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Lower explosion limit: 0.6 %(V)
k)	Vapour pressure	1.3 hPa (1.0 mmHg) at 145.0 °C (293.0 °F)
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 4.45
p)	Auto-ignition temperature	540.0 °C (1,004.0 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents, Hypochlorites

10.6 Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
Inhalation: No data available

Dermal: No data available

LD50 Intraperitoneal - Mouse - 430 mg/kg

Skin corrosion/irritation
Skin - Mouse
Result: Mild skin irritation

Serious eye damage/eye irritation
Irritating to eyes. The preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling.

Respiratory or skin sensitisation
Causes photosensitivity. Exposure to light can result in allergic reactions resulting in dermatologic lesions, which can vary from sunburnlike responses to edematous, vesiculated lesions, or bullae

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	3 - Group 3: Not classifiable as to its carcinogenicity to humans (Anthracene)
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	OSHA specifically regulated carcinogen (Anthracene)

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure
Inhalation - May cause respiratory irritation.
The preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: CA9350000

Possible tumor promoter., Headache, Nausea, Weakness

Blood -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Lepomis macrochirus (Bluegill) - 0.001 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.10 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
Indication of bioaccumulation.

Bioaccumulation	Pimephales promelas (fathead minnow) - 42 d - 0.01191 mg/l Bioconcentration factor (BCF): 649

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Anthracene)
Reportable Quantity (RQ): 5000 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Anthracene)
Marine pollutant:yes
IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Anthracene)

Further information
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Anthracene	120-12-7	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Anthracene	120-12-7	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Anthracene	120-12-7	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Anthracene	120-12-7	2007-07-01

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Anthracene	120-12-7	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Irrit.	Eye irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.9 Revision Date: 04/20/2015 Print Date: 12/11/2015

SAFETY DATA SHEET

Version 6.10
Revision Date 09/06/2024
Print Date 09/07/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Arsenic

Product Number : 202657
Brand : Aldrich
Index-No. : 033-001-00-X
CAS-No. : 7440-38-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 3), H331
Skin irritation (Category 2), H315

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Serious eye damage (Category 1), H318
Carcinogenicity (Category 1A), H350
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word	Danger
Hazard Statements	
H301 + H331	Toxic if swallowed or if inhaled.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H350	May cause cancer.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary Statements	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

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SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	As
Molecular weight	:	74.92 g/mol
CAS-No.	:	7440-38-2
EC-No.	:	231-148-6
Index-No.	:	033-001-00-X

Component	Classification	Concentration
arsenic		
	Acute Tox. 3; Skin Irrit. 2; Eye Dam. 1; Carc. 1A; Aquatic Acute 1; Aquatic Chronic 1; H301, H331, H315, H318, H350, H400, H410 M-Factor - Aquatic Acute: 10 M-Factor - Aquatic Chronic: 1	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed
If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

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4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Nature of decomposition products not known.
Not combustible.
Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections
For disposal see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class
Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
arsenic	7440-38-2	TWA	0.01 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Lung cancer Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed human carcinogen		
		C	0.0020 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A 15 minute ceiling value		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
arsenic	7440-38-2	inorganic arsenic plus methylated metabolites	15µg/g creatinine	Urine	ACGIH - Biological Exposure Indices (BEI)

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	Remarks	End of shift			
		inorganic arsenic plus methylated metabolites	15µg/g creatinine	Urine	ACGIH - Biological Exposure Indices (BEI)
		End of the workweek (After four or five consecutive working days with exposure)			

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Body Protection
protective clothing

Respiratory protection
Recommended Filter type: Filter type P3
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

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Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Color: gray
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/ range: 817 °C (1503 °F) - lit.
f)	Initial boiling point and boiling range	613 °C 1135 °F - lit.
g)	Flash point	()Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	5.727 g/mL at 25 °C (77 °F) - lit.
	Relative density	5.622.4 °C - OECD Test Guideline 109
n)	Water solubility	ca.0.0106 g/l at 20 °C (68 °F) - OECD Test Guideline 105 - slightly soluble
o)	Partition coefficient: n-octanol/water	Not applicable for inorganic substances
p)	Autoignition temperature	> 430 °C (> 806 °F)does not ignite
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information

No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
Exothermic reaction with:
Aluminum
Bromine
bromates
chlorates
iodates
Nitric acid
Risk of ignition or formation of inflammable gases or vapours with:
nitrates
Alkali metals
Zinc
Reducing agents
Strong oxidizing agents
Risk of explosion with:
potassium permanganate
azides
halogen-halogen compounds
Peroxides
nitrogen trichloride

10.4 Conditions to avoid
Heat. Exposure to air may affect product quality.
no information available

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Mouse - 145 mg/kg
Remarks: Behavioral:Ataxia.
Diarrhea
(RTECS)
Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

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Inhalation: No data available
Dermal: No data available
No data available

Skin corrosion/irritation
Skin - In vitro study
Result: Irritating to skin. - 15 min
Remarks: (ECHA)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Causes serious eye damage. - 24 h
(OECD Test Guideline 405)

Respiratory or skin sensitization
Maximization Test - Guinea pig
Result: negative
(OECD Test Guideline 406)

Germ cell mutagenicity
Test Type: Ames test
Test system: Escherichia coli
Result: negative
Remarks: (ECHA)

Carcinogenicity
May cause cancer. Positive evidence from human epidemiological studies.

IARC:	1 - Group 1: Carcinogenic to humans (arsenic)
NTP:	Known - Known to be human carcinogen (arsenic)
OSHA:	OSHA specifically regulated carcinogen (arsenic)

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

RTECS: CG0525000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

The following applies to arsenic and its compounds in general: they take effect as capillary and enzyme toxins. Symptoms of arsenic poisoning: acute: after inhalation, mucosal irritations with coughing, dyspnoea, pain in the thorax. Perforations within the respiratory tract are possible. After oral uptake, gastrointestinal disorders with vomiting, diarrhoea, and spasms, CNS disorders with headache, confusion, shaking fits and disturbed consciousness, cardiovascular disorders all the way to circulatory collapse. Chronic: exanthema, dermal lesions in the form of hyperkeratosis and hypermelanosis, loss of hair,

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conjunctivitis and polyneuropathy, impaired hepatic function, and renal damage. After accumulation in the liver, kidneys, and skin, arsenic is eliminated from the organism only slowly. Experience has shown arsenic compounds to be carcinogenic in man.

Other dangerous properties can not be excluded.

This substance should be handled with particular care.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	static test LC50 - Oreochromis mossambicus (Mozambique tilapia) - 28.68 mg/l - 96 h Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Bosmina longirostris (water flea) - 0.85 mg/l - 48 h Remarks: (ECHA)
Toxicity to algae	static test NOEC - Macrocystis pyrifera (brown algae) - 0.04 mg/l - 42 h Remarks: (ECHA)
Toxicity to bacteria	static test EC50 - activated sludge - 10.6 mg/l - 10 Days Remarks: (ECHA)
Toxicity to fish(Chronic toxicity)	flow-through test NOEC - Pimephales promelas (fathead minnow) - 2.13 mg/l - 35 d Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	flow-through test NOEC - Shrimp - 0.631 mg/l - 51 d Remarks: (ECHA)

12.2 Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

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12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)

UN number: 1558 Class: 6.1 Packing group: II
Proper shipping name: Arsenic
Reportable Quantity (RQ): 1 lbs
Reportable Quantity (RQ): 1 lbs
Poison Inhalation Hazard: No

IMDG

UN number: 1558 Class: 6.1 Packing group: II EMS-No: F-A, S-A
Proper shipping name: ARSENIC
Marine pollutant : yes

IATA

UN number: 1558 Class: 6.1 Packing group: II
Proper shipping name: Arsenic

SECTION 15: Regulatory information

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
arsenic	7440-38-2	1	1
arsenic	7440-38-2	1	1 (D004)

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SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Acute Health Hazard Chronic Health Hazard
SARA 313	:	The following components are subject to reporting levels established by SARA Title III, Section 313:

arsenic	7440-38-2	>= 90 - <= 100 %

US State Regulations

Massachusetts Right To Know

arsenic	7440-38-2

Pennsylvania Right To Know

arsenic	7440-38-2

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

arsenic	7440-38-2

Washington Chemicals of High Concern

arsenic	7440-38-2

California Prop. 65

WARNING: This product can expose you to chemicals including arsenic, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

TSCA	:	All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact

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SAFETY DATA SHEET

Version 4.5
Revision Date 03/02/2015
Print Date 05/24/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Barium
Product Number	:	237094
Brand	:	Aldrich
CAS-No.	:	7440-39-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Substances and mixtures, which in contact with water, emit flammable gases (Category 2), H261
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H261	In contact with water releases flammable gases.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary statement(s)

P223	Keep away from any possible contact with water, because of violent reaction and possible flash fire.
P231 + P232	Handle under inert gas. Protect from moisture.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.

P280	Wear protective gloves/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P402 + P404	Store in a dry place. Store in a closed container.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Ba
Molecular weight	:	137.33 g/mol
CAS-No.	:	7440-39-3
EC-No.	:	231-149-1

Hazardous components

Component	Classification	Concentration
Barium		
	Water-react. 2; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H261, H315, H319, H335	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Dry powder

5.2 Special hazards arising from the substance or mixture
Barium oxide

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Never allow product to get in contact with water during storage.

Store under inert gas.
Storage class (TRGS 510): Hazardous materials, which set free flammable gases upon contact with water

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Barium	7440-39-3	TWA	0.500000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Eye, skin, & Gastrointestinal irritation Muscular stimulation Not classifiable as a human carcinogen		

		TWA	0.500000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.500000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Eye irritation Muscular stimulation Skin irritation Gastrointestinal irritation Not classifiable as a human carcinogen		
		TWA	0.500000 mg/m3	USA. NIOSH Recommended Exposure Limits

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
impervious clothing, Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form: Rods

		Colour: grey
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 725 °C (1,337 °F) - lit.
f)	Initial boiling point and boiling range	1,640 °C (2,984 °F) - lit.
g)	Flash point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	3.6 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts violently with water.

10.4 Conditions to avoid
Exposure to moisture

10.5 Incompatible materials
Oxidizing agents, Water, acids, Oxygen, Chlorinated solvents, Carbon dioxide (CO_2), Halogens, Halogenated hydrocarbon, Alcohols, Sulphur compounds, Hydrogen sulfide gas

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: CQ8370000

Stomach/intestinal disorders, Nausea, Vomiting, Drowsiness, Dizziness, Gastrointestinal disturbance, Weakness, Tremors, Seizures.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	mortality NOEC - Cyprinodon variegatus (sheepshead minnow) - 500 mg/l - 96 h
	LC50 - Cyprinodon variegatus (sheepshead minnow) - > 500 mg/l - 96 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1400 Class: 4.3 Packing group: II
Proper shipping name: Barium
Reportable Quantity (RQ): 1000 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1400 Class: 4.3 Packing group: II EMS-No: F-G, S-O
Proper shipping name: BARIUM

IATA
UN number: 1400 Class: 4.3 Packing group: II
Proper shipping name: Barium

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Barium	7440-39-3	2007-07-01

SARA 311/312 Hazards
Reactivity Hazard, Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Barium	7440-39-3	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Barium	7440-39-3	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date

Barium	7440-39-3	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit.	Eye irritation
H261	In contact with water releases flammable gases.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure
Water-react.	Substances and mixtures, which in contact with water, emit flammable gases

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	
Flammability:	3
Physical Hazard	1

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	1
Special hazard.I:	W

Further information
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Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.5 Revision Date: 03/02/2015 Print Date: 05/24/2016

SAFETY DATA SHEET

Benzene

Section 1. Identification

GHS product identifier : Benzene

Chemical name : benzene

Other means of identification : benzene, purebenzol; cyclohexatriene; phenyl hydride; phene; coal naphtha; pyrobenzol

Product use : Synthetic/Analytical chemistry.

Synonym : benzene, purebenzol; cyclohexatriene; phenyl hydride; phene; coal naphtha; pyrobenzol

SDS # : 001062

Supplier's details : Airgas USA, LLC and its affiliates
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253

Emergency telephone number (with hours of operation) : 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 2
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
GERM CELL MUTAGENICITY - Category 1B
CARCINOGENICITY - Category 1
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (bone marrow) - Category 1

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : Highly flammable liquid and vapor.
May form explosive mixtures with air.
Causes serious eye irritation.
Causes skin irritation.
May cause genetic defects.
May cause cancer.
Causes damage to organs through prolonged or repeated exposure. (bone marrow)

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

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Section 2. Hazards identification

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Response : Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage : Store locked up. Store in a well-ventilated place. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : benzene

Other means of identification : benzene, purebenzol; cyclohexatriene; phenyl hydride; phene; coal naphtha; pyrobenzol

CAS number/other identifiers

CAS number : 71-43-2

Product code : 001062

Ingredient name	%	CAS number
benzene	100	71-43-2

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Section 4. First aid measures

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes skin irritation.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Ingestion : Harmful if swallowed. Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
irritation
redness

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

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Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
benzene	**ACGIH TLV (United States, 3/2012).** **Absorbed through skin.** STEL: 8 mg/m³ 15 minutes. STEL: 2.5 ppm 15 minutes. TWA: 1.6 mg/m³ 8 hours. TWA: 0.5 ppm 8 hours. **NIOSH REL (United States, 1/2013).** STEL: 1 ppm 15 minutes. TWA: 0.1 ppm 10 hours. **OSHA PEL (United States, 6/2010).** STEL: 5 ppm 15 minutes. TWA: 1 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** STEL: 5 ppm 15 minutes. TWA: 1 ppm 8 hours. **OSHA PEL Z2 (United States, 11/2006).** AMP: 50 ppm 10 minutes. CEIL: 25 ppm TWA: 10 ppm 8 hours.

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Section 8. Exposure controls/personal protection

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. [Watery liquid.]

Color : Colorless. Yellowish.

Molecular weight : 78.12 g/mole

Molecular formula : C6-H6

Boiling/condensation point : 80.09°C (176.2°F)

Melting/freezing point : 5.49°C (41.9°F)

Critical temperature : 288.95°C (552.1°F)

Odor : Characteristic.

Odor threshold : Not available.

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Section 9. Physical and chemical properties

pH	:	Not available.
Flash point	:	Closed cup: -11°C (12.2°F)
Burning time	:	Not applicable.
Burning rate	:	Not applicable.
Evaporation rate	:	3.5 (butyl acetate = 1)
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	Lower: 1.2% Upper: 7.8%
Vapor pressure	:	10 kPa (75.006094245 mm Hg) [room temperature]
Vapor density	:	2.7 (Air = 1)
Specific Volume (ft ^{3}/lb)	:	1.1403
Gas Density (lb/ft ^{3})	:	0.877 (20°C / 68 to °F)
Relative density	:	0.88
Solubility	:	Not available.
Solubility in water	:	1.88 g/l
Partition coefficient: n-octanol/water	:	2.13
Auto-ignition temperature	:	498°C (928.4°F)
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic (room temperature): 0.604 mPa·s (0.604 cP)

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatibility with various substances	:	Highly reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	:	Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
benzene	LC50 Inhalation Gas. LD50 Oral	Rat Rat	10000 ppm 930 mg/kg	7 hours -

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
benzene	Eyes - Moderate irritant Eyes - Severe irritant Skin - Mild irritant Skin - Mild irritant Skin - Moderate irritant	Rabbit Rabbit Rat Rabbit Rabbit	- - - - -	88 milligrams 24 hours 2 milligrams 8 hours 60 microliters 24 hours 15 milligrams 24 hours 20 milligrams	- - - - -

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
benzene	+	1	Known to be a human carcinogen.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
benzene	Category 1	Not determined	bone marrow

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

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Section 11. Toxicological information

Skin contact : Causes skin irritation.

Ingestion : Harmful if swallowed. Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
irritation
redness

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : Causes damage to organs through prolonged or repeated exposure.

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : May cause genetic defects.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

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Section 12. Ecological information

Product/ingredient name	$LogP_{ow}$	BCF	Potential
benzene	2.13	11	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
Benzene (I,T)	71-43-2	Listed	U019

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1114	UN1114	UN114	UN1114	UN1114
UN proper shipping name	BENZENE	BENZENE	BENZENE	BENZENE	BENZENE
Transport hazard class(es)	3	3	3	3	3
Packing group	II	II	II	II	II
Environment	No.	No.	No.	No.	No.
Additional information	**Reportable quantity** 10 lbs / 4.54 kg [1.3675 gal / 5.1767 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.	**Explosive Limit and Limited Quantity Index** 1 **Passenger Carrying Road or Rail Index** 5	-	-	**Passenger and Cargo Aircraft**Quantity limitation: 5 L **Cargo Aircraft Only** Quantity limitation: 60 L **Limited Quantities - Passenger Aircraft** Quantity limitation: 1 L

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Section 14. Transport information

	Limited quantity Yes. **Packaging instruction** **Passenger aircraft** Quantity limitation: 5 L **Cargo aircraft** Quantity limitation: 60 L **Special provisions** IB2, T4, TP1				

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined
United States inventory (TSCA 8b): This material is listed or exempted.
Clean Water Act (CWA) 307: benzene
Clean Water Act (CWA) 311: benzene

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Fire hazard
Immediate (acute) health hazard
Delayed (chronic) health hazard

Composition/information on ingredients

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Section 15. Regulatory information

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
benzene	100	Yes.	No.	No.	Yes.	Yes.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	benzene	71-43-2	100
Supplier notification	benzene	71-43-2	100

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : This material is listed.

New York : This material is listed.

New Jersey : This material is listed.

Pennsylvania : This material is listed.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
benzene	Yes.	Yes.	6.4 µg/day (ingestion) 13 µg/day (inhalation)	24 µg/day (ingestion) 49 µg/day (inhalation)

Canada inventory : This material is listed or exempted.

International regulations

International lists : **Australia inventory (AICS)**: This material is listed or exempted.
China inventory (IECSC): This material is listed or exempted.
Japan inventory: This material is listed or exempted.
Korea inventory: This material is listed or exempted.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted.
Philippines inventory (PICCS): This material is listed or exempted.
Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : Not listed

Canada

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Section 15. Regulatory information

WHMIS (Canada) : Class B-2: Flammable liquid
Class D-2A: Material causing other toxic effects (Very toxic).
Class D-2B: Material causing other toxic effects (Toxic).

CEPA Toxic substances: This material is listed.
Canadian ARET: This material is not listed.
Canadian NPRI: This material is listed.
Alberta Designated Substances: This material is not listed.
Ontario Designated Substances: This material is not listed.
Quebec Designated Substances: This material is not listed.

Section 16. Other information

Canada Label requirements : Class B-2: Flammable liquid
Class D-2A: Material causing other toxic effects (Very toxic).
Class D-2B: Material causing other toxic effects (Toxic).

Hazardous Material Information System (U.S.A.)

Health	*	2
Flammability		3
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of printing : 4/26/2015.
Date of issue/Date of revision : 4/26/2015.
Date of previous issue : 10/16/2014.
Version : 0.03

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Section 16. Other information

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United NationsACGIH – American Conference of Governmental Industrial Hygienists
AIHA – American Industrial Hygiene Association
CAS – Chemical Abstract Services
CEPA – Canadian Environmental Protection Act
CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act (EPA)
CFR – United States Code of Federal Regulations
CPR – Controlled Products Regulations
DSL – Domestic Substances List
GWP – Global Warming Potential
IARC – International Agency for Research on Cancer
ICAO – International Civil Aviation Organisation
Inh – Inhalation
LC – Lethal concentration
LD – Lethal dosage
NDSL – Non-Domestic Substances List
NIOSH – National Institute for Occupational Safety and Health
TDG – Canadian Transportation of Dangerous Goods Act and Regulations
TLV – Threshold Limit Value
TSCA – Toxic Substances Control Act
WEEL – Workplace Environmental Exposure Level
WHMIS – Canadian Workplace Hazardous Material Information System

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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SAFETY DATA SHEET

Based on Directive 2001/58/EC et seq. of the Commission of the European Communities

BENZ[a]ANTHRACENE

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Synonyms: benzo(a)anthracene

CAS No.	: 56-55-3	**BCR number**	: BCR-271
EC index No.	: 601-033-00-9	**NFPA code**	: N.D.
EINECS No.	: 200-280-6	**Molecular weight**	: 228.30
RTECS No.	: CV9275000	**Formula**	: C18H12

1.2 Use of the substance or the preparation:
Certified reference material for laboratory use only

1.3 Company/undertaking identification:
Institute for Reference Materials and Measurements
Retieseweg
B-2440 Geel
Tel. : +32 14 57 12 11
Fax : +32 14 58 42 73

1.4 Telephone number for emergency:
+32 70 245 245
Antigifcentrum
p/a Militair Hospitaal Koningin Astrid, Bruynstraat, B-1120 Brussel

2. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS No.	Conc. in %	Hazard symbol	Risks (R-phrases)
Benzo[a]anthracene	56-55-3 200-280-6	100	T;N	45-50/53 (1)

(1) For R-phrases in full: see heading 16

3. Hazards identification

- May cause cancer
- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

4. First aid measures

4.1 Eye contact:
- Consult a doctor/medical service if irritation persists
- Rinse immediately with water

4.2 Skin contact:
- Consult a doctor/medical service if irritation persists
- Wash with water and soap
- Remove clothing before washing

4.3 After inhalation:
- Consult a doctor/medical service if breathing problems develop
- Remove the victim into fresh air
- Unconscious: maintain adequate airway and respiration

4.4 After ingestion:
- Consult a doctor/medical service if you feel unwell
- Immediately give lots of water to drink
- Never give water to an unconscious person

5. Fire-fighting measures

5.1 Suitable extinguishing media:
- Water spray
- Alcohol foam
- Polymer foam
- ABC powder
- Carbon dioxide

5.2 Unsuitable extinguishing media:
- Solid water jet ineffective as extinguishing medium

5.3 Special exposure hazards:
- Not easily combustible
- Upon combustion CO and CO2 are formed

5.4 Instructions:
- Take account of toxic firefighting water
- Use firefighting water moderately and contain it

5.5 Special protective equipment for firefighters:
- Heat/fire exposure: compressed air/oxygen apparatus
- Dust cloud production: compressed air/oxygen apparatus

6. Accidental release measures

6.1 Personal protection/precautions: see heading 8.1/8.3/10.3

6.2 Environmental precautions:
- Prevent soil and water pollution
- Substance must not be discharged into the sewer
- Dam up the solid spill

6.3 Methods for cleaning up:
- Stop dust cloud by covering with sand/earth
- Carefully collect the spill/leftovers
- Scoop solid spill into closing containers
- Take collected spill to manufacturer/competent authority
- Clean contaminated surfaces with an excess of water
- Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:
- Observe strict hygiene
- Avoid prolonged and repeated contact with skin
- Avoid raising dust
- Do not discharge the waste into the drain
- Remove contaminated clothing immediately

7.2 Storage:
- Keep container tightly closed. Store in a cool area. Store in a dry area.
- Store in a dark area.
- Keep away from: heat sources, ignition sources, oxidizing agents, acids

Storage temperature	:	N.D.	**°C**
Quantity limits	:	N.D.	**kg**
Storage life	:	N.D.	
Materials for packaging	:		

- suitable : no data available
- to avoid : no data available

7.3 Specific uses:
See information supplied by the manufacturer

8. Exposure controls/Personal protection

8.1 Exposure limit values:

TLV-TWA	:	**mg/m^3**	-	**ppm**
TLV-STEL	:	**mg/m^3**	-	**ppm**
TLV-Ceiling	:	**mg/m^3**		**ppm**
OES-LTEL	:	**mg/m^3**		**ppm**
OES-STEL	:	**mg/m^3**		**ppm**
MAK	:	**mg/m^3**		**ppm**
TRK	:	**mg/m^3**		**ppm**
MAC-TGG 8 h	:	**mg/m^3**		
MAC-TGG 15 min.	:	**mg/m^3**		
MAC-Ceiling	:	**mg/m^3**		
VME-8 h	:	**mg/m^3**		**ppm**
VLE-15 min.	:	**mg/m^3**		**ppm**
GWBB-8 h	:	**mg/m^3**		**ppm**
GWK-15 min.	:	**mg/m^3**		**ppm**
Momentary value	:	**mg/m^3**		**ppm**
EC	:	**mg/m^3**		**ppm**
EC-STEL	:	**mg/m^3**		**ppm**

Sampling methods:

- Benz(a)Anthracene (Polynuclear aromatic hydrocarbons) NIOSH 5506
- Benz(a)Anthracene (Polynuclear aromatic hydrocarbons) NIOSH 5515
- Benz(a)Anthracene OSHA CSI

8.2 Exposure controls:

8.2.1 Occupational exposure controls:
- Measure the concentration in the air regularly
- Work under local exhaust/ventilation

8.2.2 Environmental exposure controls: see heading 13

8.3 Personal protection:

8.3.1 respiratory protection:
- Dust production: dust mask with filter type P3
- High dust production: compressed air/oxygen apparatus

8.3.2 hand protection:
- Gloves
  Suitable materials: No data available
- Breakthrough time: N.D.

8.3.3 eye protection:
- Safety glasses
- In case of dust production: protective goggles

8.3.4 skin protection:
- Protective clothing
- In case of dust production: head/neck protection
  Suitable materials: No data available

9. Physical and chemical properties

9.1 General information:

Appearance (at 20°C)	: Crystalline solid / Scales	
Odour	: Odourless	
Colour	: Colourless to fluorescent yellow-green	

9.2 Important health, safety and environmental information:

pH value	: N.D.	
Boiling point/boiling range	: N.A.	**°C**
Flashpoint	: N.D.	**°C**
Explosion limits	: N.D.	**vol% (°C)**
Vapour pressure (at 20°C)	: 0.00007	**hPa**
Vapour pressure (at 50°C)	: N.D.	**hPa**
Relative density (at 20°C)	: 1.3	
Water solubility	: 0.00001	**g/100 ml**
Soluble in	: Ether, acetone, oils/fats	
Relative vapour density	: N.D.	
Viscosity	: N.D.	**Pa.s**
Partition coëfficient n-octanol/water	: 5.61/5.79	
Evaporation rate		
ratio to butyl acetate	: N.D.	
ratio to ether	: N.D.	

9.3 Other information:

Melting point/melting range	: 160	**°C**
Auto-ignition point	: N.D.	**°C**
Saturation concentration	: N.D.	**g/m^3**

10. Stability and reactivity

10.1 Conditions to avoid/reactivity:
- Stable under normal conditions

10.2 Materials to avoid:
- Keep away from: heat sources, ignition sources, oxidizing agents, acids

10.3 Hazardous decomposition products:
- Upon combustion CO and CO2 are formed
- Reacts violently with (strong) oxidizers
- Decomposes on exposure to (strong) acids

11. Toxicological information

11.1 Acute toxicity:

LD50 oral rat	: N.D.	**mg/kg**
LD50 dermal rat	: N.D.	**mg/kg**
LD50 dermal rabbit	: N.D.	**mg/kg**
LC50 inhalation rat	: N.D.	**mg/l/4 h**
LC50 inhalation rat	: N.D.	**ppm/4 h**

11.2 Chronic toxicity:

EC carc. cat.	:	2
EC muta. cat.	:	not listed
EC repr. cat.	:	not listed
Carcinogenicity (TLV)	:	A2
Carcinogenicity (MAC)	:	K
Carcinogenicity (VME)	:	not listed
Carcinogenicity (GWBB)	:	not listed
Carcinogenicity (MAK)	:	2
Mutagenicity (MAK)	:	not listed
Teratogenicity (MAK)	:	-
IARC classification	:	2A

11.3 Routes of exposure: ingestion, inhalation, eyes and skin
Caution! Substance is absorbed through the skin

11.4 Acute effects/symptoms:

AFTER SKIN CONTACT
- Slight irritation

11.5 Chronic effects:

- Probably human carcinogenic
- Mutagenicity: AMES test positive
- Probably human mutagenic

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:
- No specific information available

SIMILAR PRODUCTS CAUSE FOLLOWING SYMPTOMS:
- Feeling of weakness
- Photoallergy
- Skin rash/inflammation
- Cracking of the skin
- Skin cancer
- Lung tissue affection/degeneration
- Enlargement/affection of the liver
- Affection of the renal tissue

12. Ecological information

12.1 Ecotoxicity:

- LC50 (65 h) : 0.0018 mg/l (PIMEPHALES PROMELAS)
- EC50 (96 h) : 0.01 mg/l (DAPHNIA PULEX)

12.2 Mobility:

- **Volatile organic compounds (VOC):** 0%

- Photolysis in water
- Ozonation in water
- Insoluble in water

For other physicochemical properties see heading 9.

12.3 Persistence and degradability:

- biodegradation BOD_5	:		N.D.	**% ThOD**
- water	:	-	Not readily biodegradable in water	
- soil	:	**T ½:**	> 100	**days**

12.4 Bioaccumulative potential:
- **log P_{ow}** : 5.61/5.79
- **BCF** : 72 h : 350 (LEUCISCUS IDUS)
- Highly bioaccumulative

12.5 Other adverse effects:

- **WGK** : 3 (Classification based on the R-phrases in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)
- **Effect on the ozone layer** : Not dangerous for the ozone layer (Council Regulation (EC) 3093/94)
- **Greenhouse effect** : no data available
- **Effect on waste water purification** : no data available

13. Disposal considerations

13.1 Provisions relating to waste:

- Waste material code (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 16 05 06 (laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals)
- Waste material code (Flanders): 001, 045, 691
- Waste code (Germany): 59302
- Hazardous waste (91/689/EEC)

13.2 Disposal methods:

- Dissolve or mix with a combustible solvent
- Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber
- Do not discharge into surface water (2000/60/EEC, Council Decision 2455/2001/EC)

13.3 Packaging/Container:

- Waste material code packaging (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10 (packaging containing residues of or contaminated by dangerous substances)

14. Transport information

90
3077

14.1 Classification of the substance in compliance with UN Recommendations

UN number	: 3077
CLASS	: 9
SUB RISKS	: -
PACKING	: III
PROPER SHIPPING NAME	: UN 3077, Environmentally hazardous substance, solid, n.o.s. (benzo[a]anthracene)

14.2 ADR (transport by road)

CLASS	: 9
PACKING	: III
DANGER LABEL TANKS	: 9
DANGER LABEL PACKAGES	: 9

14.3 RID (transport by rail)

CLASS	: 9
PACKING	: III
DANGER LABEL TANKS	: 9
DANGER LABEL PACKAGES	: 9

14.4 ADNR (transport by inland waterways)

CLASS	: 9
PACKING	: III
DANGER LABEL TANKS	: 9
DANGER LABEL PACKAGES	: 9

14.5 IMDG (maritime transport)

CLASS	: 9
SUB RISKS	: -
PACKING	: III
MFAG	: -
EMS	: -
MARINE POLLUTANT	: P

14.6 ICAO (air transport)

CLASS	: 9
SUB RISKS	: -
PACKING	: III
PACKING INSTRUCTIONS PASSENGER AIRCRAFT	:
PACKING INSTRUCTIONS CARGO AIRCRAFT	:

14.7 Special precautions in connection with transport : none

14.8 Limited quantities (LQ) :

When substances and their packaging meet the conditions established by ADR/RID/ADNR in chapter 3.4, **only** the following prescriptions shall be complied with:
each package shall display a diamond-shaped figure with the following inscription:
- 'UN 3077'
or, in the case of different goods with different identification numbers within a single package:
- the letters 'LQ'

15. Regulatory information

Enumerated in substance list Annex I of directive 67/548/EEC et sequens

Toxic

Dangerous for the environment

R45 : May cause cancer
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S53 : Avoid exposure - obtain special instructions before use
S45 : In case of accident or if you feel unwell, seek medical advice (show the label where possible)
S60 : This material and/or its container must be disposed of as hazardous waste
S61 : Avoid release to the environment. Refer to special instructions/safety data sheets.

16. Other information

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE
N.D. = NOT DETERMINED
***** = INTERNAL CLASSIFICATION

Full text of any R-phrases referred to under heading 2:

R45 : May cause cancer
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Exposure limits:

TLV : Threshold Limit Value - ACGIH USA 2000
OES : Occupational Exposure Standards - United Kingdom 1999
MEL : Maximum Exposure Limits - United Kingdom 1999
MAK : Maximale Arbeitsplatzkonzentrationen - Germany 2001
TRK : Technische Richtkonzentrationen - Germany 2001
MAC : Maximale aanvaarde concentratie - The Netherlands 2002
VME : Valeurs limites de Moyenne d'Exposition - France 1999
VLE : Valeurs limites d'Exposition à court terme - France 1999
GWBB : Grenswaarde beroepsmatige blootstelling - Belgium 1998
GWK : Grenswaarde kortstondige blootstelling - Belgium 1998
EC : Indicative occupational exposure limit values - directive 2000/39/EC

Chronic toxicity:

K : List of the carcinogenic substances and processes - The Netherlands 2002

Safety Data Sheet

Revision Date: 03/23/15
www.restek.com

1. IDENTIFICATION

Catalog Number / Product Name:	**31272, 31272-5XX, & 31372 / Benzo (b) Fluoranthene Standard**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	1-800-424-9300 (CHEMTREC) +1 703-741-5970 (Outside the US)
Email:	sds@restek.com
Revision Number:	8
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:

GHS Classification: Flammable Liquid Category 2
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3

GHS Signal Word: Danger

GHS Hazard: Highly flammable liquid and vapour.
May cause drowsiness or dizziness.

GHS Precautions:

Safety Precautions: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilation and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage: Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal: Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: No data available.

Repeated Exposure Target Organs: No data available.

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
Acetone	67-64-1	200-662-2	99.900000
benzo (b) fluoranthene	205-99-2	205-911-9	0.100000

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained toxic breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
Acetone	67-64-1	2500 ppm IDLH (10% LEL)	750 ppm STEL 750 ppm STEL;	500 ppm TWA 500 ppm TWA; 1188 mg/m3	1000 ppm TWA; 2400 mg/m3 TWA

			1782 mg/m3 STEL	TWA	
benzo (b) fluoranthene	205-99-2	ND		No TLV	No data available.

Personal Protection:

Engineering Measures:	Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.
Respiratory Protection:	No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 3. A respirator is not normally required.
Eye Protection:	Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.
Skin Protection:	Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work
Medical Conditions Aggravated By Exposure:	Respiratory disease including asthma and bronchitis

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	Depends upon product selection
Odor:	Strong
Physical State:	No data available.
pH:	No data available
Vapor Density:	2.0 (air = 1)
Melting Point:	-95.4 °C Melting Point
Flash Point:	39
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	No data available.
Lower Flammable/Explosive Limit, % in air:	No data available.
Autoignition Temperature:	465 deg C
Decomposition Temperature:	No data available.
Specific Gravity:	0.7845 g/cm3 at 25 °C
Evaporation Rate:	No data available.
Odor Threshold:	ND
Solubility:	Complete; 100%
Partition Coefficient: n-octanol in water:	No data available.
VOC % by weight:	0.00
Molecular Weight:	58.08

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	No data available.
Materials to Avoid / Chemical Incompatiability:	Strong oxidizing agents Strong acids
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Respiratory Tract, Skin
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.
Skin Contact:	Can cause minor skin irritation, defatting, and dermatitis.
Eye Contact:	Can cause minor irritation, tearing and reddening.
Ingestion Irritation:	May be harmful if swallowed.
Ingestion Toxicity:	Harmful if swallowed. May cause systemic poisoning.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	Contains a probable or known human carcinogen.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.
Skin Contact:	Upon prolonged or repeated contact, can cause minor

skin irritation, defatting, and dermatitis.

Component Toxicological Data:

NIOSH:

Chemical Name	CAS No.	LD50/LC50
Acetone	67-64-1	Inhalation LC50 Rat 50100 mg/m3 8 h

Component Carcinogenic Data:

OSHA:

Chemical Name	CAS No.	
Benzo(b)fluoranthene	205-99-2	Present

ACGIH:

Chemical Name	CAS No.	
Acetone	67-64-1	A4 - Not Classifiable as a Human Carcinogen
Benzo[b]fluoranthene	205-99-2	A2 - Suspected Human Carcinogen

NIOSH:

Chemical Name	CAS No.
No data available.	

NTP:

Chemical Name	CAS No.
No data available.	

IARC:

Chemical Name	CAS No.	Group No.
No data.		Group 1
No data.		Group 2A
Benzo(b)fluoranthene	205-99-2	Group 2B

12. ECOLOGICAL INFORMATION

Overview: This material is not expected to be harmful to the ecology.
Mobility: No data
Persistence: No data
Bioaccumulation: No data
Degradability: No data
Ecological Toxicity Data: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product: Spent or discarded material is a hazardous waste.
Disposal Methods: Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging: Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:
DOT Proper Shipping Name: Acetone
UN Number: UN1090
Hazard Class: 3
Packing Group: II

International:
IATA Proper Shipping Name: Acetone
UN Number: UN1090
Hazard Class: 3
Packing Group: II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available.			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
Acetone	67-64-1	X	-	-	X
benzo (b) fluoranthene	205-99-2	X	X	-	-

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Benzo[b]fluoranthene	205-99-2	Prop 65 Cancer

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
Acetone	67-64-1	X	X	X	X
benzo (b) fluoranthene	205-99-2	X	X	X	X

16. OTHER INFORMATION

Prior Version Date: 05/16/14

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding prodcuts described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

SAFETY DATA SHEET

Revision Date 10-Feb-2015 **Revision Number** 1

1. Identification

Product Name **Benzo[ghi]perylene**

Cat No. : **AC105550000; AC105550050; AC105550250; AC105551000**

Synonyms 1,12-Benzoperylene

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements
None required

Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Benzo(ghi)perylene	191-24-2	> 98

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

Inhalation Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.

Ingestion Clean mouth with water. Get medical attention.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO_2)
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
0	0	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let this chemical enter the environment.

7. Handling and storage

Handling Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Yellow
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	276 - 280 °C / 528.8 - 536 °F
Boiling Point/Range	No information available > @ 760 mmHg
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C22 H12
Molecular Weight	276.33

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable.
Conditions to Avoid	Excess heat. Exposure to light. Incompatible products.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO_2)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information	No acute toxicity information is available for this product
Component Information	
Toxicologically Synergistic	No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Benzo(ghi)perylene	191-24-2	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available
Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity
Do not empty into drains.

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility .

Component	log Pow
Benzo(ghi)perylene	7.23

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT Not regulated
TDG Not regulated
IATA Not regulated
IMDG/IMO Not regulated

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL

Benzo(ghi)perylene	-	-	-	205-883-8	-		-	-	-	-	-

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Benzo(ghi)perylene	191-24-2	> 98	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Benzo(ghi)perylene	-	-	X	X

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Benzo(ghi)perylene	5000 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Benzo(ghi)perylene	X	X	X	X	-

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class Non-controlled

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Revision Date 10-Feb-2015
Print Date 10-Feb-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

BCR-048R: benzo[k]fluoranthene

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Product name: BCR-048R: benzo[k]fluoranthene

CAS number	207-08-9
EC index number	601-036-00-5
EINECS number	205-916-6
RTECS number	DF6350000
Molecular mass	252.32 g/mol
Formula	C20H12

1.2 Use of the substance/preparation:

Certified reference material for laboratory use only

1.3 Company/undertaking identification:

Institute for Reference Materials and Measurements
Retieseweg
B-2440 Geel
Tel: +32 14 57 12 11
Fax: +32 14 59 04 06
JRC-IRMM-RM-Sales@ec.europa.eu

1.4 Emergency telephone:

Poison Centre: +32 70 245 245

2. Hazards identification

NFPA: 1-1-2(*)

DSD/DPD

May cause cancer

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Other hazards

Its dust is explosive with air

Dust cloud can be ignited by a spark

Slightly irritant to skin

Slightly irritant to eyes

Caution! Substance is absorbed through the skin

No certainty about human mutagenic properties

Highly bioaccumulative

Not readily biodegradable in water

CLP

Carc. 1B	May cause cancer. (H350)
Aquatic Acute 1	Very toxic to aquatic life. (H400)
Aquatic Chronic 1	Very toxic to aquatic life with long lasting effects. (H410)

Other hazards

Its dust is explosive with air

Dust cloud can be ignited by a spark

Slightly irritant to skin

Slightly irritant to eyes

Caution! Substance is absorbed through the skin

No certainty about human mutagenic properties

Highly bioaccumulative

Not readily biodegradable in water

3. Composition/information on ingredients

Name	CAS No EINECS/ELINCS	Conc.	Classification according to DSD/DPD	Classification according to CLP	Note
benzo[k]fluoranthene	207-08-9 205-916-6		Carc. Cat. 2; R45 N; R50-53	Carc. 1B; H350 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	

4. First aid measures

4.1 After inhalation:

Remove the victim into fresh air

Respiratory problems: consult a doctor/medical service

4.2 Skin contact:

Rinse with water

Do not apply (chemical) neutralizing agents

Take victim to a doctor if irritation persists

4.3 Eye contact:

Rinse with water

Do not apply neutralizing agents

Take victim to an ophthalmologist if irritation persists

4.4 After ingestion:

Rinse mouth with water

Immediately after ingestion: give lots of water to drink

Do not induce vomiting

Consult a doctor/medical service if you feel unwell

5. Fire-fighting measures

5.1 Suitable extinguishing media:

Water spray

Polyvalent foam

ABC powder

Carbon dioxide

5.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known

5.3 Special exposure hazards:

Heating increases the fire hazard

Dust cloud can be ignited by a spark

Upon combustion CO and CO2 are formed

5.4 Instructions:

Take account of toxic fire-fighting water

Use water moderately and if possible collect or contain it

5.5 Special protective equipment for fire-fighters:

Gloves

Protective clothing

Heat/fire exposure: compressed air/oxygen apparatus

6. Accidental release measures

6.1 Personal precautions:

See heading 8.2

6.2 Environmental precautions:

Dam up the solid spill

Prevent soil and water pollution

Prevent spreading in sewers

See heading 13

6.3 Methods for cleaning up:

Scoop solid spill into closing containers
Carefully collect the spill/leftovers
Clean contaminated surfaces with an excess of water
Take collected spill to manufacturer/competent authority
Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:

Avoid raising dust
Warning! Avoid exposure
Keep away from naked flames/heat
Obtain special instructions before use
Observe strict hygiene
Keep container tightly closed
Do not discharge the waste into the drain

7.2 Storage:

Safe storage requirements:

Store in a cool area
Store in a dry area
Keep container in a well-ventilated place
Keep locked up
Unauthorized persons are not admitted
Meet the legal requirements

Keep away from:

oxidizing agents
(strong) acids

7.3 Specific use(s):

See information supplied by the manufacturer for the identified use(s)

8. Exposure controls/Personal protection

8.1 Exposure limit values:

8.1.1 Occupational exposure:

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods:

Product name	Test	Number	Sampling method	Remarks
Benz(a)Anthracene	OSHA	CSI		
Benz(a)Anthracene (Polynuclear aromatic hydrocarbons)	NIOSH	5506	adsorption tubes	
Benz(a)Anthracene (Polynuclear aromatic hydrocarbons)	NIOSH	5515	adsorption tubes	

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

Measure the concentration in the air regularly
Carry operations in the open/under local exhaust/ventilation or with respiratory protection
Personal protective equipment:

a) Respiratory protection:

Dust production: dust mask with filter type P3

b) Hand protection:

Gloves

c) Eye protection:

Safety glasses
In case of dust production: protective goggles

d) Skin protection:

Protective clothing

8.2.2 Environmental exposure controls:

See headings 6.2, 6.3 and 13

9. Physical and chemical properties

9.1 General information:

Physical form	Crystalline solid
	Needles
Colour	Light yellow

9.2 Important health, safety and environmental information:

Boiling point	480 °C
Vapour pressure (20°C)	< 0.00001 hPa
Solubility in water	< 0.00001 g/100 ml
Solubility in solvents	Soluble in ethanol
	Soluble in acetic acid
	Soluble in oils/fats
Log Pow	6.84

9.3 Other information:

Melting point	217 °C

10. Stability and reactivity

10.1 Conditions to avoid:

Possible fire hazard

heat sources
ignition sources

Stability

No data available

Reactions

Reacts violently with (strong) oxidizers

10.2 Materials to avoid:

oxidizing agents
(strong) acids

10.3 Hazardous decomposition products:

Upon combustion CO and CO2 are formed

11. Toxicological information

11.1 Acute toxicity:

No (test)data available.

11.2 Chronic toxicity:

Probably human carcinogenic
No certainty about human mutagenic properties
Not classified as toxic to reproduction (EC)

BCR-048R: benzo[k]fluoranthene

EC carc cat	2
Listed in SZW - List of carcinogenic substances	yes
IARC - classification	2B
MAK - Krebserzeugend Kategorie	2
MAK - Keimzellmutagen Kategorie	3B
MAK - Schwangerschaft Gruppe	-
CLP carc cat	category 1B

11.3 Acute effects/symptoms:

Inhalation:

No data available

Skin contact:

Slight irritation

Eye contact:

Slight irritation

Ingestion:

No data available

11.4 Chronic effects:

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:
No specific information available
SIMILAR PRODUCTS CAUSE FOLLOWING SYMPTOMS:
Feeling of weakness
Cracking of the skin
Skin rash/inflammation
Photoallergy
Skin cancer
Lung tissue affection/degeneration
Enlargement/affection of the liver
Affection of the renal tissue

12. Ecological information

12.1 Ecotoxicity:

No (test)data available.

12.2 Mobility:

Volatile organic compounds (VOC)	0 %
Solubility in/reaction with water	Insoluble in water
Water physicochemical processes	Forming sediments in water
Soil physicochemical processes	Adsorbs into the soil

12.3 Persistence and degradability:

Water abiotic degradation processes	Ozonation in water
Half-life soil	65 - 1400 days

Not readily biodegradable in water

12.4 Bioaccumulative potential:

Log Pow	6.84

Highly bioaccumulative

12.5 Results of PBT assessment:

Not applicable, based on available data

12.6 Other adverse effects:

Not dangerous for the ozone layer (Council Regulation (EC) no 1005/2009)

13. Disposal considerations

13.1 Provisions relating to waste:

Waste material code (Directive 2008/98/EC, decision 2001/118/EC)
16 05 06* : laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Depending on branch of industry and production process, also other EURAL codes may be applicable
Hazardous waste according to Directive 2008/98/EC

13.2 Disposal methods:

Dissolve or mix with a combustible solvent
Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery
Remove waste in accordance with local and/or national regulations
Do not discharge into surface water (2000/60/EC, Council decision 2455/2001/EC, O.J. L331 of 15/12/2001)

13.3 Packaging/Container:

Waste material code packaging (Directive 2008/98/EC)
15 01 10* : packaging containing residues of or contaminated by dangerous substances

{13.4 Entsorgung verschmutzter Gebinde:}

14. Transport information

ADR

Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Techn./chem. name ADR	benzo[k]fluoranthene
UN number	3077
Class	9
Packing group	III
Hazard identification number	90
Classification code	M7
Labels	9
Environmentally hazardous substance mark	yes

RID

Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Techn./chem. name RID	benzo[k]fluoranthene
UN number	3077
Class	9
Packing group	III
Classification code	M7
Labels	9
Environmentally hazardous substance mark	yes

ADNR

Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Techn./chem. name ADNR	benzo[k]fluoranthene
UN number	3077
Class	9
Packing group	III
Classification code	M7
Labels	9
Environmentally hazardous substance mark	yes

IMO

Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Techn./chem. name IMO	benzo[k]fluoranthene
UN number	3077
Class	9
Packing group	III
Labels	9
Marine pollutant	P
Environmentally hazardous substance mark	yes

ICAO

Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Techn./chem. name ICAO	benzo[k]fluoranthene
UN number	3077
Class	9
Packing group	III
Labels	9
Environmentally hazardous substance mark	yes

15. Regulatory information

15.1 EU Legislation:

DSD/DPD

Enumerated in substance list Annex I of directive 67/548/EEC et sequens

Dangerous for the environment

R-phrases

45	May cause cancer
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrases

53	Avoid exposure - obtain special instructions before use
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
60	This material and its container must be disposed of as hazardous waste
61	Avoid release to the environment. Refer to special instructions/safety data sheets.

Additional recommendations

	Restricted to professional users.

CLP

Classification and labelling according to Regulation (EC) No 1272/2008 – Annex VI and after evaluation of available test data

Signal word

Dgr	Danger

H-statements

H350	May cause cancer.
H410	Very toxic to aquatic life with long lasting effects.

P-statements

P202	Do not handle until all safety precautions have been read and understood.
P281	Use personal protective equipment as required.
P273	Avoid release to the environment.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P391	Collect spillage.
P405	Store locked up.

Supplemental information

	Restricted to professional users.

15.2 National provisions:

15.3 Specific community rules:

Enumerated in Annex XVII of Regulation (EC) No. 1907/2006: Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

Legislation	Reference legislation
EG/552/2009	See column 1: 28.
EG/552/2009	See column 1: 50. g)

16. Other information

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question.

Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult your BIG licence agreement for details.

(*) = INTERNAL CLASSIFICATION (NFPA)

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive
DPD Dangerous Preparation Directive
CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

Full text of any R-phrases referred to under headings 2 and 3:

R45	May cause cancer
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of any H-statements referred to under headings 2 and 3:

H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of any classes referred to under headings 2 and 3:

Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Carc.	Carcinogenicity

SAFETY DATA SHEET

Revision Date 25-Mar-2024 **Revision Number** 4

1. Identification

Product Name **Benzo[a]pyrene**

Cat No. : **15856**

CAS No 50-32-8
Synonyms Benzo[def]chrysene.; 3,4-Benzopyrene; 3,4-Benzpyrene

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company
Thermo Fisher Scientific Chemicals, Inc.
30 Bond Street
Ward Hill, MA 01835-8099
Tel: 800-343-0660
Fax: 800-322-4757

Emergency Telephone Number
For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No. **US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Sensitization	Category 1
Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive Toxicity	Category 1B

Label Elements

Signal Word
Danger

Hazard Statements
May cause an allergic skin reaction
May cause genetic defects

May cause cancer
May damage fertility. May damage the unborn child

Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Response
IF exposed or concerned: Get medical attention/advice
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
Storage
Store locked up
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects
WARNING. Cancer - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Benzo[a]pyrene	50-32-8	> 96

4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

Most important symptoms and effects None reasonably foreseeable. . May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature Not applicable
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products
Carbon monoxide (CO). Carbon dioxide (CO_2).
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

Environmental Precautions Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods for Containment and Clean Up Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Oxidizing agent.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
Benzo[a]pyrene		TWA: 0.2 mg/m³		

Legend

OSHA - Occupational Safety and Health Administration

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Recommended Filter type:	Particulates filter conforming to EN 143.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Dark yellow
Odor	aromatic
Odor Threshold	No information available
pH	Not applicable
Melting Point/Range	175 - 179 °C / 347 - 354.2 °F
Boiling Point/Range	495 °C / 923 °F @ 760 mmHg
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C20H12
Molecular Weight	252.31

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Oxidizing agent
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO_2)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information
Component Information
Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization May cause sensitization by skin contact

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Benzo[a]pyrene	50-32-8	Group 1	Reasonably Anticipated	A2	X	A2

IARC (International Agency for Research on Cancer)

NTP: (National Toxicity Program)

ACGIH: (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans
NTP: (National Toxicity Program)
Known - Known Carcinogen
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen
A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen
ACGIH: (American Conference of Governmental Industrial Hygienists)

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Endocrine Disruptor Information

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Benzo[a]pyrene	Group III Chemical	Not applicable	Not applicable

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Persistence and Degradability May persist

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment due its low water solubility.

Component	log Pow
Benzo[a]pyrene	6.06

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Benzo[a]pyrene - 50-32-8	U022	-

14. Transport information

DOT

UN-No UN3077
Proper Shipping Name Environmentally hazardous substances, solid, n.o.s.
Technical Name Benzo[a]pyrene
Hazard Class 9
Packing Group III

TDG

UN-No UN3077
Proper Shipping Name Environmentally hazardous substances, solid, n.o.s.
Hazard Class 9
Packing Group III

IATA

UN-No UN3077
Proper Shipping Name Environmentally hazardous substances, solid, n.o.s.
Hazard Class 9
Packing Group III

IMDG/IMO

UN-No UN3077
Proper Shipping Name Environmentally hazardous substances, solid, n.o.s.
Hazard Class 9
Packing Group III

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Benzo[a]pyrene	50-32-8	X	ACTIVE	-

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT) Not applicable

TSCA 12(b) - Notices of Export Not applicable

International Inventories
Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Benzo[a]pyrene	50-32-8	X	-	200-028-5	X	-		-	X	KE-05-0184

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. Note that PBT chemicals are not eligible for the de minimis exemption. For these chemicals, supplier notification limits are provided.
> 0 % = no low concentration cut-off set, supplier notification limit applies.

Component	CAS No	Weight %	SARA 313 - Threshold Values %	SARA 313 - Reporting threasholds
Benzo[a]pyrene	50-32-8	> 96	> 0 %	RT = 100 lb

SARA 311/312 Hazard Categories
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Benzo[a]pyrene	-	-	X	X

Clean Air Act Not applicable

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

Component	Hazardous Substances RQs	CERCLA Extremely Hazardous Substances RQs	SARA Reportable Quantity (RQ)
Benzo[a]pyrene	1 lb	-	1 lb 0.454 kg

California Proposition 65 This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
Benzo[a]pyrene	50-32-8	Carcinogen	0.06 µg/day	Carcinogen

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Benzo[a]pyrene	X	X	X	X	X

U.S. Department of Transportation
Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Benzo[a]pyrene	50-32-8	-	Use restricted. See item 72. (see link for restriction details) Use restricted. See item 30. (see link for restriction details) Use restricted. See item 28. (see link for restriction details) Use restricted. See item 50[a]. (see link for restriction details) Use restricted. See item 29. (see link for restriction details) Use restricted. See item 75. (see link for restriction details)	SVHC Candidate list - 200-028-5 - Carcinogenic (article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); PBT (Article 57d); vPvB (Article 57e)

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

REACH links
https://echa.europa.eu/authorisation-list
https://echa.europa.eu/substances-restricted-under-reach
https://echa.europa.eu/candidate-list-table

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Benzo[a]pyrene	50-32-8	Not applicable	Annex III - Substance subject to release reduction	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?
See table for values

PFAS Legend
Listed = Meets the PFAS definition of the named authority

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)

		for Major Accident Notification	for Safety Report Requirements		
Benzo[a]pyrene	50-32-8	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By
Health, Safety and Environmental Department
Email: chem.techinfo@thermofisher.com
www.thermofisher.com

Revision Date 25-Mar-2024
Print Date 25-Mar-2024
Revision Summary New emergency telephone response service provider.

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Version 4.6
Revision Date 12/29/2015
Print Date 01/29/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Beryllium
Product Number	:	378135
Brand	:	Aldrich
CAS-No.	:	7440-41-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 2), H330
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Skin sensitisation (Category 1), H317
Carcinogenicity (Category 1B), H350
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Specific target organ toxicity - repeated exposure (Category 1), H372

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H301	Toxic if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.

H372	Causes damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Be
Molecular weight	:	9.01 g/mol
CAS-No.	:	7440-41-7
EC-No.	:	231-150-7

Hazardous components

Component	Classification	Concentration
Berylium foil		
	Acute Tox. 3; Acute Tox. 2; Skin Irrit. 2; Eye Irrit. 2A; Skin Sens. 1; Carc. 1B; STOT SE 3; STOT RE 1; H301, H315, H317, H319, H330, H335, H350, H372	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Beryllium oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Berylium foil	7440-41-7	TWA	2.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		CEIL	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Peak	25.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		TWA	2.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
	Remarks	Z27.29-1970		
		CEIL	5.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		TWA	0.000050 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Beryllium sensitization Chronic beryllium disease (berylliosis) Confirmed human carcinogen Danger of cutaneous absorption Sensitizer		
		C	0.000500 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		See Table Z-2		
		TWA	2.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		TWA	2.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		CEIL	5.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		CEIL	5.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		TWA	0.000050 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Beryllium sensitization		

		Chronic beryllium disease (berylliosis) Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Confirmed human carcinogen Danger of cutaneous absorption Sensitizer		
		C	0.000500 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		See Table Z-2		
		TWA	2microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		CEIL	5microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		C	0.0005 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: grey
b)	Odour	odourless
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 1,278 °C (2,332 °F) - lit.
f)	Initial boiling point and boiling range	2,970 °C (5,378 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	1.85 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Alkali metals

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

LD50 Intravenous - Rat - 0.496 mg/kg
Remarks: Liver:Hepatitis (hepatocellular necrosis), zonal.

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
Hamster
Lungs
Result: negative

Carcinogenicity

Carcinogenicity - Rat - Intratracheal
Tumorigenic:Neoplastic by RTECS criteria. Lungs, Thorax, or Respiration:Tumors. Lungs, Thorax, or Respiration:Bronchiogenic carcinoma.

Carcinogenicity - Rabbit - Intravenous
Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Musculoskeletal:Tumors.

Possible human carcinogen

IARC:	1 - Group 1: Carcinogenic to humans (Berylium foil)
NTP:	Known to be human carcinogen (Berylium foil)
	Known to be human carcinogenThe reference note has been added by TD based on the background information of the NTP. (Berylium foil)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: DS1750000

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1567 Class: 6.1 (4.1) Packing group: II
Proper shipping name: Beryllium, powder
Reportable Quantity (RQ): 10 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1567 Class: 6.1 (4.1) Packing group: II EMS-No: F-G, S-G
Proper shipping name: BERYLLIUM POWDER

IATA
UN number: 1567 Class: 6.1 (4.1) Packing group: II
Proper shipping name: Beryllium powder

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Berylium foil	7440-41-7	2008-10-10

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H301	Toxic if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation

HMIS Rating

Health hazard:	4
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	4
Fire Hazard:	3
Reactivity Hazard:	3

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

SAFETY DATA SHEET

Version 5.6
Revision Date 05/23/2016
Print Date 11/17/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	β-HCH
Product Number	:	33376
Brand	:	Sigma-Aldrich
Index-No.	:	602-042-00-0
CAS-No.	:	319-85-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	+1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Dermal (Category 4), H312
Carcinogenicity (Category 2), H351
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P322	Specific measures (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_6H_6Cl_6$
Molecular weight	:	290.83 g/mol
CAS-No.	:	319-85-7
EC-No.	:	206-271-3
Index-No.	:	602-042-00-0

Hazardous components

Component	Classification	Concentration
(1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane		
	Acute Tox. 3; Acute Tox. 4; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H301, H312, H351, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	> 300.0 °C (> 572.0 °F)
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	insoluble
o)	Partition coefficient: n-	log Pow: 3.78

	octanol/water	
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 6,000 mg/kg

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: 2B - Group 2B: Possibly carcinogenic to humans ((1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: Reasonably anticipated to be a human carcinogen ((1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: GV4375000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Blood -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Poecilia reticulata (guppy) - 1.6 mg/l - 96.0 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

Bioaccumulation	Cyprinus carpio (Carp) - 35 d - 0.05 mg/l Bioconcentration factor (BCF): 500

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solids, organic, n.o.s. ((1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)
Reportable Quantity (RQ): 1 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. ((1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)

IATA
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solid, organic, n.o.s. ((1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. (1α,2β,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	319-85-7	2009-02-01

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	1
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.6 Revision Date: 05/23/2016 Print Date: 11/17/2016

Chemical Safety Data Sheet MSDS / SDS

SKQ1 Bromide

Revision Date:2023-12-07 Revision Number:1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product name	: SKQ1 Bromide
CBnumber	: CB73133755
CAS	: 934826-68-3
EINECS Number	: 604-604-1
Synonyms	: SKQ1 Bromide,Visomitin

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	: For R&D use only. Not for medicinal, household or other use.
Uses advised against	: none

Company Identification

Company	: Chemicalbook
Address	: Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing
Telephone	: 400-158-6606

SECTION 2: Hazards identification

Classification of the substance or mixture

no data available

Label elements

Pictogram(s)

Signal word no data available

Hazard statement(s)

no data available

Precautionary statement(s)

Prevention

no data available

Response

no data available

Storage

no data available

Disposal

no data available

Other hazards

no data available

SECTION 3: Composition/information on ingredients

Substance

Product name	: SKQ1 Bromide
Synonyms	: SKQ1 Bromide,Visomitin
CAS	: 934826-68-3
EC number	: 604-604-1
MF	: C36H42BrO2P
MW	: 617.62

SECTION 4: First aid measures

Description of first aid measures

If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed

no data available

Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures

Extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

Specific Hazards Arising from the Chemical

no data available

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

NFPA 704

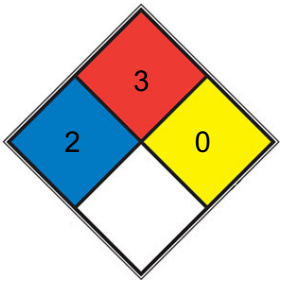

■	HEALTH	2	Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury (e.g. diethyl ether, ammonium phosphate, iodine)
■	FIRE	3	Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions . Liquids having a flash point below 22.8 °C (73 °F) and having a boiling point at or above 37.8 °C (100 °F) or having a flash point between 22.8 and 37.8 °C (73 and 100 °F). (e.g. gasoline, acetone)
■	REACT	0	Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium,N2)
□	SPEC. HAZ.		

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours.Avoid contacting with skin and eye. Use personal protective equipment.Wear chemical impermeable gloves. Ensure adequate ventilation.Remove all sources of ignition. Evacuate personnel to safe areas.Keep people away from and upwind of spill/leak.

Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

SECTION 7: Handling and storage

Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

SECTION 8: Exposure controls/personal protection

Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

Exposure controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

Individual protection measures

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

Thermal hazards

no data available

SECTION 9: Physical and chemical properties

Information on basic physicochemical properties

Physical state	Solid
Colour	Brown
Odour	no data available
Melting point/freezing point	no data available
Boiling point or initial boiling point and boiling range	no data available
Flammability	no data available
Lower and upper explosion limit/flammability limit	no data available
Flash point	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available

pH	no data available
Kinematic viscosity	no data available
Solubility	Chloroform (Slightly), Methanol (Slightly)
Partition coefficient n-octanol/water	no data available
Vapour pressure	no data available
Density and/or relative density	no data available
Relative vapour density	no data available
Particle characteristics	no data available

SECTION 10: Stability and reactivity

Reactivity

no data available

Chemical stability

no data available

Possibility of hazardous reactions

no data available

Conditions to avoid

no data available

Incompatible materials

no data available

Hazardous decomposition products

no data available

SECTION 11: Toxicological information

Acute toxicity

- Oral: no data available
- Inhalation: no data available
- Dermal: no data available

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

SECTION 12: Ecological information

Toxicity

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

SECTION 13: Disposal considerations

Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

SECTION 14: Transport information

UN Number

ADR/RID: no data available

IMDG: no data available

IATA: no data available

UN Proper Shipping Name

ADR/RID: no data available

IMDG: no data available

IATA: no data available

Transport hazard class(es)

ADR/RID: no data available

IMDG: no data available

IATA: no data available

Packing group, if applicable

ADR/RID: no data available

IMDG: no data available

IATA: no data available

Environmental hazards

ADR/RID: No

IMDG: No

IATA: No

Special precautions for user

no data available

Transport in bulk according to IMO instruments

no data available

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

European Inventory of Existing Commercial Chemical Substances (EINECS)

Not Listed.

EC Inventory

Not Listed.

United States Toxic Substances Control Act (TSCA) Inventory

Not Listed.

China Catalog of Hazardous chemicals 2015

Not Listed.

New Zealand Inventory of Chemicals (NZIoC)

Not Listed.

PICCS

Not Listed.

Vietnam National Chemical Inventory

Not Listed.

IECSC

Not Listed.

Korea Existing Chemicals List (KECL)

Not Listed.

SECTION 16: Other information

Abbreviations and acronyms

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

References

IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home

HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm

IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en

CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple

ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg

Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp

ECHA - European Chemicals Agency, website: https://echa.europa.eu/

Disclaimer:
The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.

SAFETY DATA SHEET

Revision Date 24-Dec-2021 **Revision Number** 4

1. Identification

Product Name **Cadmium**

Cat No. : **C3-500**

CAS No 7440-43-9
Synonyms No information available

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company
Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300
CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable solids	Category 2
Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 2
Germ Cell Mutagenicity	Category 2
Carcinogenicity	Category 1A
Reproductive Toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	
Specific target organ toxicity - (repeated exposure)	Category 1
Target Organs - Kidney, Blood.	
Combustible dust	Yes

Label Elements

Signal Word

Danger

Hazard Statements
Flammable solid
May form combustible dust concentrations in air
Fatal if inhaled
Harmful if swallowed
Harmful in contact with skin
May cause respiratory irritation
Suspected of causing genetic defects
May cause cancer
Suspected of damaging fertility. Suspected of damaging the unborn child
Causes damage to organs through prolonged or repeated exposure

Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting equipment
Response
IF exposed or concerned: Get medical attention/advice
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON CENTER or doctor/physician
Skin
IF ON SKIN: Wash with plenty of soap and water
Wash contaminated clothing before reuse
Call a POISON CENTER or doctor/physician if you feel unwell
Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
Fire
Fight fire with normal precautions from a reasonable distance
Evacuate area
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects
WARNING. Cancer and Reproductive Harm - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Cadmium	7440-43-9	100

4. First-aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and effects None reasonably foreseeable. . Kidney disorders: May cause harm to the unborn child: Blood disorders

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Thermal decomposition can lead to release of irritating gases and vapors. Fine dust dispersed in air may ignite. Dust can form an explosive mixture with air. Pyrophoric properties of solids and liquids. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products
Toxic fumes.
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
4	1	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust

formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

Environmental Precautions Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods for Containment and Clean Up Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

7. Handling and storage

Handling Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Store under an inert atmosphere. Incompatible Materials. Strong oxidizing agents. Strong acids. Sulfur oxides.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Cadmium	TWA: 0.01 mg/m³ TWA: 0.002 mg/m³	Ceiling: 0.3 mg/m³ Ceiling: 0.6 mg/m³ (Vacated) STEL: 0.3 ppm TWA: 0.1 mg/m³ TWA: 0.2 mg/m³ TWA: 5 µg/m³	IDLH: 9 mg/m³	TWA: 0.01 mg/m³ TWA: 0.002 mg/m³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures When using do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes or clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs.

9. Physical and chemical properties

Physical State Solid

Appearance	Silver
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	321 °C / 609.8 °F
Boiling Point/Range	765 °C / 1409 °F @ 760 mmHg
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	8.64 @ 25°C
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Cd
Molecular Weight	112.40

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under recommended storage conditions. Moisture sensitive. Air sensitive.

Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation. Exposure to air or moisture over prolonged periods.

Incompatible Materials Strong oxidizing agents, Strong acids, Sulfur oxides

Hazardous Decomposition Products Toxic fumes

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information
Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cadmium	LD50 = 2330 mg/kg (Rat)	Not listed	LC50 = 25 mg/m³ (Rat) 30 min

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Cadmium	7440-43-9	Group 1	Known	A2	X	A2

IARC (International Agency for Research on Cancer)	*IARC (International Agency for Research on Cancer)* *Group 1 - Carcinogenic to Humans* *Group 2A - Probably Carcinogenic to Humans* *Group 2B - Possibly Carcinogenic to Humans*
NTP: (National Toxicity Program)	*NTP: (National Toxicity Program)* *Known - Known Carcinogen* *Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen*
ACGIH: (American Conference of Governmental Industrial Hygienists)	*A1 - Known Human Carcinogen* *A2 - Suspected Human Carcinogen* *A3 - Animal Carcinogen* *ACGIH: (American Conference of Governmental Industrial Hygienists)*

Mutagenic Effects Possible risk of irreversible effects

Reproductive Effects Possible risk of impaired fertility. May cause harm to the unborn child.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system
STOT - repeated exposure Kidney Blood

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Kidney disorders: May cause harm to the unborn child: Blood disorders

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

The product contains following substances which are hazardous for the environment. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Cadmium	Not listed	LC50: 0.0004 - 0.003 mg/L, 96h (Pimephales promelas) LC50: = 0.016 mg/L, 96h (Oryzias latipes) LC50: = 21.1 mg/L, 96h flow-through (Lepomis macrochirus) LC50: = 0.24 mg/L, 96h static (Cyprinus carpio) LC50: = 4.26 mg/L, 96h semi-static (Cyprinus carpio) LC50: = 0.002 mg/L, 96h	Not listed	EC50: = 0.0244 mg/L, 48h Static (Daphnia magna)

		(Cyprinus carpio) LC50: = 0.006 mg/L, 96h static (Oncorhynchus mykiss) LC50: = 0.003 mg/L, 96h flow-through (Oncorhynchus mykiss)		

Persistence and Degradability No information available

Bioaccumulation/ Accumulation No information available.

Mobility No information available.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No UN2930
Proper Shipping Name Toxic solid, flammable, organic, n.o.s.
Technical Name Cadmium
Hazard Class 6.1
Subsidiary Hazard Class 4.1
Packing Group I

TDG

UN-No UN2930
Proper Shipping Name Toxic solid, flammable, organic, n.o.s.
Hazard Class 6.1
Subsidiary Hazard Class 4.1
Packing Group I

IATA

UN-No UN2930
Proper Shipping Name Toxic solid, flammable, organic, n.o.s.
Hazard Class 6.1
Subsidiary Hazard Class 4.1
Packing Group I

IMDG/IMO

UN-No UN2930
Proper Shipping Name Toxic solid, flammable, organic, n.o.s.
Hazard Class 6.1
Subsidiary Hazard Class 4.1
Packing Group I

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Cadmium	7440-43-9	X	ACTIVE	-

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Cadmium	7440-43-9	X	-	231-152-8	X	X		X	X	KE-04397

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Cadmium	7440-43-9	100	0.1

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Cadmium	-	-	X	X

Clean Air Act

OSHA - Occupational Safety and Health Administration Not applicable

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Cadmium	5 µg/m³ TWA 2.5 µg/m³ Action Level	-

CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Cadmium	10 lb	-

California Proposition 65 This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
Cadmium	7440-43-9	Carcinogen Developmental Male Reproductive	0.05 µg/day	Developmental Carcinogen

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Cadmium	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Cadmium	-	Use restricted. See item 72. (see link for restriction details) Use restricted. See item 23. (see link for restriction details) Use restricted. See item 28. (see link for restriction details) Use restricted. See item 75. (see link for restriction details)	SVHC Candidate list - 231-152-8 - Carcinogenic, Article 57a;Specific target organ toxicity after repeated exposure, Article 57(f) - human health

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

https://echa.europa.eu/authorisation-list
https://echa.europa.eu/substances-restricted-under-reach
https://echa.europa.eu/candidate-list-table

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Cadmium	7440-43-9	Listed	Not applicable	Not applicable	0.01% (Max. Conc.)

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Cadmium	7440-43-9	Not applicable	Not applicable	Not applicable	Annex I - Y26

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Revision Date 24-Dec-2021
Print Date 24-Dec-2021
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) No. 2020/878

DC Fine Chemicals

Trade name : **102780 - Calcium metal, granular**

Revision date : 04/11/2022 **Version (Revision) :** 2.0.0 (1.0.0)
Print date : 12/11/2022

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Calcium metal, granular (102780)

Calcium metal, granular ; CAS No. : 7440-70-2 ; EC No. : 231-179-5 ; Index No. : 020-001-00-X ; REACH No. : 01-2119516038-45-XXXX

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

For manufacturing, processing, laboratory or repacking use only.

Uses advised against

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

DC Fine Chemicals Ltd

Street : 88 Hill Top

Postal code/City : NW11 6DY London United Kingdom

Telephone : +44 (0)20 7586 6800

Telefax : +44 (0)20 7504 1701

Information contact : info@dcfinechemicals.com

1.4 Emergency telephone number

(Only available during office hours; Monday-Friday; 08:00-18:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Water-react. 2 ; H261 - Substances or mixtures which, in contact with water, emit flammable gases : Category 2 ; In contact with water releases flammable gases.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

Flame (GHS02)

Signal word

DANGER

Hazard statements

H261 In contact with water releases flammable gases.

Precautionary statements

P223	Do not allow contact with water.
P231+P232	Handle and store contents under inert gas. Protect from moisture.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P335+P334	IF ON SKIN: Brush off loose particles from skin. Immerse in cool water [or wrap in wet bandages].
P370+P378	In case of fire: Use ... to extinguish.
P402+P404	Store in a dry place. Store in a closed container.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : Calcium metal, granular

Index No. : 020-001-00-X

EC No. : 231-179-5

REACH No. : 01-2119516038-45-XXXX

CAS No. : 7440-70-2

Purity : 100 % [mass]

SECTION 4: First aid measures

4.1 Description of first aid measures

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove victim out of the danger area. When in doubt or if symptoms are observed, get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps.

4.3 Indication of any immediate medical attention and special treatment needed

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

SECTION 5: Firefighting measures

The product is Highly inflammable, it can cause or considerably worsen a fire, the necessary prevention measures should be taken and risks avoided. In case of fire, the following measures are recommended:

5.1 Extinguishing media

Suitable extinguishing media

Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Pyrolysis products, toxic

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Do not inhale explosion and combustion gases. In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Wear a self-contained breathing apparatus and chemical protective clothing.

For emergency responders

Eliminate possible ignition points and ventilate the area. No smoking. Avoid breathing fumes.For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Retain contaminated washing water and dispose it.

6.3 Methods and material for containment and cleaning up

For containment

Collect in closed and suitable containers for disposal.

For cleaning up

The contaminated area should be cleaned up immediately with: Water Soak up inert absorbent and dispose as waste requiring special attention. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Avoid dust formation. Clear spills immediately.

6.4 Reference to other sections

Reference to other sections Disposal: see section 13 Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Protective measures

When using do not eat, drink, smoke, sniff. Wear personal protection equipment (refer to section 8).

Measures to prevent aerosol and dust generation

Vapours can form explosive mixtures with air. Take precautionary measures against static discharges. Use only in well-ventilated areas. Do not breathe gas/fumes/vapour/spray. Do not breathe dust.

Environmental precautions

Use appropriate container to avoid environmental contamination.

Specific requirements or handling rules

Handle and open container with care.

Advices on general occupational hygiene

Take care for general good hygiene and housekeeping.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Storage temperature :
Keep in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.

Requirements for storage rooms and vessels

Only use containers specifically approved for the substance/product.

Hints on joint storage

Store at least 3 metres apart from: Chemicals/products that react together readily Protect against Humidity. UV-radiation/sunlight

Storage class (TRGS 510) : 4.3

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

None

8.2 Exposure controls

Only wear fitting, comfortable and clean protective clothing.

Personal protection equipment

Eye/face protection

Eye glasses with side protection Face protection shield EN 166

Skin protection

Hand protection

Tested protective gloves must be worn EN ISO 374

Body protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Wear anti-static footwear and clothing Wash contaminated clothing prior to re-use.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Particle filter device (EN 143).

Thermal hazards

No special measures are necessary.

Environmental exposure controls

No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : solid

Safety characteristics

Melting point/freezing point :	(1013 hPa)	850	°C	
Initial boiling point and boiling range :	(1013 hPa)	1175	°C	
Decomposition temperature :	(1013 hPa)	No data available		
Flash point :		No data available		
Auto-ignition temperature :		No data available		
Lower explosion limit :		No data available		
Upper explosion limit :		No data available		
Vapour pressure :	(50 °C)	No data available		
Density :	(20 °C)	No data available		
Solvent separation test :	(20 °C)	not applicable		
Water solubility :	(20 °C)	4	g/l	
Fat solubility :	(20 °C)	No data available.		
pH :		14		
log P O/W :		No data available		
Flow time :	(20 °C)	No data available		DIN-cup 4 mm
Viscosity :	(20 °C)	No data available		
Relative vapour density :	(20 °C)	No data available		
Evaporation rate :		No data available		
Flammable solids :	No data available.			
Flammable gases :	No data available.			
Explosive properties :	No data available.			

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

The product does not present hazards by their reactivity.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature. Safe handling: see

section 7

10.3 Possibility of hazardous reactions

The product does not present possibility of hazardous reactions.

10.4 Conditions to avoid

Avoid any improper handling.

10.5 Incompatible materials

Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

10.6 Hazardous decomposition products

In case of fire may be liberated: Hazardous combustion products

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

No information available.

Corrosion

Skin corrosion/irritation

No information available.

Serious eye damage/eye irritation

No information available.

Respiratory or skin sensitisation

No information available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No information available.

Germ cell mutagenicity

No information available.

Reproductive toxicity

No information available.

STOT-single exposure

No information available.

STOT-repeated exposure

No information available.

Aspiration hazard

No information available.

11.2 Information on other hazards

No information available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) toxicity to crustacea

Parameter :	EC50 (Calcium metal, granular ; CAS No. : 7440-70-2)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) toxicity to crustacea
Effective dose :	330 mg/l
Exposure time :	48 hour(s)

12.2 Persistence and degradability
No information available.

12.3 Bioaccumulative potential
No information available.

12.4 Mobility in soil
No information available.

12.5 Results of PBT and vPvB assessment
This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 Endocrine disrupting properties
No information available.

12.7 Other adverse effects
No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation. Follow the provisions of Directive 2008/98/EC regarding waste management.

Product/Packaging disposal
Waste treatment options
Recycle according to official regulations. Evidence for disposal must be provided.

Appropriate disposal / Product
Dispose of waste according to applicable legislation.

Appropriate disposal / Package
Non-contaminated packages must be recycled or disposed of. Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number
UN 1401

14.2 UN proper shipping name
Land transport (ADR/RID)
CALCIUM

Sea transport (IMDG)
CALCIUM

Air transport (ICAO-TI / IATA-DGR)

CALCIUM

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) :	4.3
Classification code :	W2
Hazard identification number (Kemler No.) :	423
Tunnel restriction code :	D/E
Special provisions :	LQ 500 g · E 2
Hazard label(s) :	4.3

Sea transport (IMDG)

Class(es) :	4.3
EmS-No. :	F-G / S-O
Special provisions :	LQ 500 g · E 2 · IMDG-Code segregation group 26 · IMDG-Code segregation group 35
Hazard label(s) :	4.3

Air transport (ICAO-TI / IATA-DGR)

Class(es) :	4.3
Special provisions :	E 2
Hazard label(s) :	4.3

14.4 Packing group

II

14.5 Environmental hazards

Land transport (ADR/RID) : No
Sea transport (IMDG) : No
Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user

Hazard label(s) :

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No information available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Classification according to Regulation (EC) No 1272/2008 [CLP] according to Regulation (EU) No. 2020/878

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3

National regulations
Water hazard class
Class : nwg (Non-hazardous to water)

15.2 Chemical Safety Assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
ASTM:	ASTM International, originally known as American Society for Testing and Materials (ASTM)
EINECS:	European Inventory of Existing Commercial Chemical Substances
EC50:	Effective Concentration 50 (Maximum Effective Concentration for 0% of Individuals)
LC50:	Lethal Concentration 50 (Lethal Concentration for 50% of Individuals)
IC50:	Inhibitor Concentration 50 (Inhibitory Concentration for 50% of Individuals)
NOEL:	No Observed Effect Level (Maximum dose without effect)
DNEL:	Derived No Effect Level (Derived no-effect dose)
DMEL:	Derived Minimum Effect Level (Derived dose of minimal effect)
CLP:	Classification, Labelling and Packaging
CSR:	Chemical Safety Report
LD50:	Lethal Dose 50 (Lethal Dose for 50% of Individuals)
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
Codice IMDG:	International Maritime Dangerous Goods code
PBT:	Persistent, bioaccumulative and toxic
RID:	Regulations concerning the international rail transport of Dangerous Goods
STEL:	Short term exposure limit
TLV:	Threshold limit value
TWA:	Time Weighted Average
UE:	European Union
vPvB:	Very persistent very bioaccumulative
N.D.:	Uvailable
N.A.:	Not applicable
VwVwS.:	Text of Administrative Regulation on the Classification of Substances hazardous to waters into Water Hazard Classes

16.3 Key literature references and sources for data

None

16.4 Relevant H- and EUH-phrases (Number and full text)

H261	In contact with water releases flammable gases.

16.5 Training advice

None

16.6 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

SAFETY DATA SHEET

Carbon Dioxide

Airgas
an Air Liquide company

Section 1. Identification

GHS product identifier : Carbon Dioxide

Chemical name : Carbon dioxide, gas

Other means of identification : Carbonic, Carbon Dioxide, Carbonic Anhydride, R744, Carbon Dioxide USP

Product type : Gas.

Product use : Synthetic/Analytical chemistry and Medical use.

Synonym : Carbonic, Carbon Dioxide, Carbonic Anhydride, R744, Carbon Dioxide USP

SDS # : 001013

Supplier's details : Airgas USA, LLC and its affiliates
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253

24-hour telephone : 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : GASES UNDER PRESSURE - Liquefied gas
Simple asphyxiant.

GHS label elements

Hazard pictograms :

Signal word : Warning

Hazard statements : Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation.
May increase respiration and heart rate.

Precautionary statements

General : Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction. Always keep container in upright position.

Prevention : Use and store only outdoors or in a well ventilated place.

Response : Not applicable.

Storage : Protect from sunlight. Store in a well-ventilated place.

Disposal : Not applicable.

Hazards not otherwise classified : In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.
May cause frostbite.

Section 3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : Carbon dioxide, gas

Other means of identification : Carbonic, Carbon Dioxide, Carbonic Anhydride, R744, Carbon Dioxide USP

Product code : 001013

CAS number/other identifiers

CAS number : 124-38-9

Ingredient name	%	CAS number
Carbon Dioxide	100	124-38-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : As this product is a gas, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Ingestion : As this product is a gas, refer to the inhalation section.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Section 4. First aid measures

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Immediately contact emergency personnel. Stop leak if without risk.

Large spill : Immediately contact emergency personnel. Stop leak if without risk. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid breathing gas. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.
Avoid contact with eyes, skin and clothing. Empty containers retain product residue and can be hazardous.

Section 7. Handling and storage

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F). Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Carbon Dioxide	**ACGIH TLV (United States, 3/2017). Oxygen Depletion [Asphyxiant].** STEL: 54000 mg/m³ 15 minutes. STEL: 30000 ppm 15 minutes. TWA: 9000 mg/m³ 8 hours. TWA: 5000 ppm 8 hours. **NIOSH REL (United States, 10/2016).** STEL: 54000 mg/m³ 15 minutes. STEL: 30000 ppm 15 minutes. TWA: 9000 mg/m³ 10 hours. TWA: 5000 ppm 10 hours. **OSHA PEL (United States, 6/2016).** TWA: 9000 mg/m³ 8 hours. TWA: 5000 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** STEL: 54000 mg/m³ 15 minutes. STEL: 30000 ppm 15 minutes. TWA: 18000 mg/m³ 8 hours. TWA: 10000 ppm 8 hours.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Section 8. Exposure controls/personal protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Gas. [Compressed gas.]

Color : Colorless.

Odor : Odorless.

Odor threshold : Not available.

pH : Not available.

Melting point : Sublimation temperature: -79°C (-110.2 to °F)

Boiling point : Not available.

Critical temperature : 30.85°C (87.5°F)

Flash point : [Product does not sustain combustion.]

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : 830 (psig)

Vapor density : 1.53 (Air = 1) Liquid Density@BP: Solid density = 97.5 lb/ft3 (1562 kg/m3)

Specific Volume (ft ^{3}/lb) : 8.7719

Gas Density (lb/ft ^{3}) : 0.114

Relative density : Not applicable.

Solubility : Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/water : 0.83

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not applicable.

Flow time (ISO 2431) : Not available.

Molecular weight : 44.01 g/mole

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Section 11. Toxicological information

Ingestion : As this product is a gas, refer to the inhalation section.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Carbon Dioxide	0.83	-	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1013	UN1013	UN1013	UN1013	UN1013
UN proper shipping name	CARBON DIOXIDE	CARBON DIOXIDE	CARBON DIOXIDE	CARBON DIOXIDE	CARBON DIOXIDE
Transport hazard class(es)	2.2	2.2	2.2	2.2	2.2
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

Additional information

DOT Classification : **Limited quantity** Yes.
Quantity limitation Passenger aircraft/rail: 75 kg. Cargo aircraft: 150 kg.

TDG Classification : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).
Explosive Limit and Limited Quantity Index 0.125
Passenger Carrying Road or Rail Index 75

IATA : **Quantity limitation** Passenger and Cargo Aircraft: 75 kg. Cargo Aircraft Only: 150 kg.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: This material is listed or exempted.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Section 15. Regulatory information

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Refer to Section 2: Hazards Identification of this SDS for classification of substance.

State regulations

Massachusetts : This material is listed.

New York : This material is not listed.

New Jersey : This material is listed.

Pennsylvania : This material is listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : This material is listed or exempted.

Canada : This material is listed or exempted.

China : This material is listed or exempted.

Europe : This material is listed or exempted.

Japan : **Japan inventory (ENCS)**: This material is listed or exempted.
Japan inventory (ISHL): This material is listed or exempted.

Malaysia : Not determined.

New Zealand : This material is listed or exempted.

Philippines : This material is listed or exempted.

Republic of Korea : This material is listed or exempted.

Taiwan : This material is listed or exempted.

Thailand : Not determined.

Turkey : This material is listed or exempted.

United States : This material is listed or exempted.

Viet Nam : Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	/	1
Flammability		0
Physical hazards		3

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
GASES UNDER PRESSURE - Liquefied gas	Expert judgment

History

Date of printing : 2/12/2018

Date of issue/Date of revision : 2/12/2018

Date of previous issue : 4/25/2017

Version : 0.03

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

References : Not available.

Notice to reader

Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

SAFETY DATA SHEET

Version 5.10
Revision Date 01/06/2016
Print Date 03/03/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Carbon tetrachloride
Product Number	:	319961
Brand	:	Sigma-Aldrich
Index-No.	:	602-008-00-5
CAS-No.	:	56-23-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 3), H331
Acute toxicity, Dermal (Category 3), H311
Skin sensitisation (Sub-category 1B), H317
Carcinogenicity (Category 2), H351
Specific target organ toxicity - repeated exposure, Inhalation (Category 1), Liver, Kidney, H372
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412
Hazardous to the ozone layer (Category 1), H420

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H372	Causes damage to organs (Liver, Kidney) through prolonged or repeated exposure if inhaled.

H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P304 + P340 + P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.
P502	Refer to manufacturer/ supplier for information on recovery/ recycling.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Rapidly absorbed through skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	Tetrachloromethane
Formula	:	CCl_4CCl_4
Molecular weight	:	153.82 g/mol
CAS-No.	:	56-23-5
EC-No.	:	200-262-8
Index-No.	:	602-008-00-5

Hazardous components

Component	Classification	Concentration
Tetrachloromethane		
	Acute Tox. 3; Skin Sens. 1B; Carc. 2; STOT RE 1; Aquatic Acute 3; Aquatic Chronic 3; Ozone 1; H301 + H311 + H331, H317, H351, H372, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Move out of dangerous area.Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Tetrachloromethane	56-23-5	TWA	5.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Liver damage Suspected human carcinogen Danger of cutaneous absorption		
		STEL	10.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Liver damage Suspected human carcinogen Danger of cutaneous absorption		
		ST	2.000000 ppm 12.600000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		TWA	10.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.17-1967		
		CEIL	25.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.17-1967		
		Peak	200.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.17-1967		
		See Table Z-2		
		TWA	5 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Liver damage Suspected human carcinogen Danger of cutaneous absorption		
		STEL	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Liver damage Suspected human carcinogen Danger of cutaneous absorption		
		ST	2 ppm 12.6 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		See Table Z-2		
		TWA	10 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.17-1967		
		CEIL	25 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.17-1967		
		Peak	200 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.17-1967		
		TWA	2 ppm 12.6 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 240 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: colourless
b)	Odour	sweet
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -23 °C (-9 °F) - lit.
f)	Initial boiling point and boiling range	76 - 77 °C (169 - 171 °F) - lit.
g)	Flash point	does not flash
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower	No data available

	flammability or explosive limits	
k)	Vapour pressure	45 hPa (34 mmHg) at 0.3 °C (32.5 °F) 120 hPa (90 mmHg) at 19.8 °C (67.6 °F) 14,549 hPa (10,913 mmHg) at 24 °C (75 °F)
l)	Vapour density	No data available
m)	Relative density	1.594 g/cm3 at 25 °C (77 °F)
n)	Water solubility	0.8461 g/l at 20 °C (68 °F)
o)	Partition coefficient: n-octanol/water	log Pow: 2.83 at 25 °C (77 °F)
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Surface tension	26.7 mN/m at 20 °C (68 °F) 19.5 mN/m at 80 °C (176 °F)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 2,350 mg/kg

LC50 Inhalation - Rat - 4 h - 8000 ppm

LD50 Dermal - Rabbit - > 20,000 mg/kg

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Mild skin irritation - 24 h
(Draize Test)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Mild eye irritation - 24 h
(Draize Test)

Respiratory or skin sensitisation
- Mouse
Result: The product is a skin sensitiser, sub-category 1B.
(OECD Test Guideline 429)

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification. Limited evidence of carcinogenicity in animal studies

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Tetrachloromethane)
NTP:	Reasonably anticipated to be a human carcinogen (Tetrachloromethane)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Inhalation - Causes damage to organs through prolonged or repeated exposure. - Liver, Kidney

Aspiration hazard
No data available

Additional Information
RTECS: FG4900000

Vomiting, Diarrhoea, Abdominal pain, Nausea, Dizziness, Headache, Damage to the eyes., Liver injury may occur., Kidney injury may occur., Exposure to and/or consumption of alcohol may increase toxic effects., Contact with skin can cause:, Pain, Erythema, hyperemia

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	mortality LC50 - Danio rerio (zebra fish) - 24.3 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - 35 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	Growth inhibition EC50 - Algae - 20 mg/l - 72 h (OECD Test Guideline 201)

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

Bioaccumulation	Lepomis macrochirus (Bluegill) - 21 d - 52.3 µg/l Bioconcentration factor (BCF): 30

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1846 Class: 6.1 Packing group: II
Proper shipping name: Carbon tetrachloride
Reportable Quantity (RQ): 10 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1846 Class: 6.1 Packing group: II EMS-No: F-A, S-A
Proper shipping name: CARBON TETRACHLORIDE
Marine pollutant: yes
IATA
UN number: 1846 Class: 6.1 Packing group: II
Proper shipping name: Carbon tetrachloride

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Tetrachloromethane	56-23-5	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Tetrachloromethane	56-23-5	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Tetrachloromethane	56-23-5	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Tetrachloromethane	56-23-5	2007-07-01

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer.	56-23-5	2007-09-28

Tetrachloromethane

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H301	Toxic if swallowed.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled
H311	Toxic in contact with skin.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H351	Suspected of causing cancer.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.10 Revision Date: 01/06/2016 Print Date: 03/03/2016

Safety Data Sheet

Revision Date: 05/11/15
www.restek.com

1. IDENTIFICATION

Catalog Number / Product Name:	**32207, 32207-5XX, & 32307 / alpha-Chlordane Standard**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	1-800-424-9300 (CHEMTREC) +1 703-741-5970 (Outside the US)
Email:	sds@restek.com
Revision Number:	6
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:

GHS Classification:

Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1
Flammable Liquid Category 2
Acute Toxicity - Inhalation Dust / Mist Category 3
Acute Toxicity - Inhalation Vapour Category 3
Acute Toxicity - Inhalation Gas Category 3
Acute Toxicity - Dermal Category 3
Acute Toxicity - Oral Category 3

GHS Signal Word: Danger

GHS Hazard:

Highly flammable liquid and vapour.
Toxic if swallowed, in contact with skin or if inhaled.
Toxic if inhaled.
Causes damage to organs.

GHS Precautions:

Safety Precautions:

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilation and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Do no eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures:

IF SWALLOWED: Immediately call a POISON CENTER/doctor/....
IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF exposed: Call a POISON CENTER or doctor/physician.
Call a POISON CENTER or doctor/physician if you feel unwell.
Specific treatment see section 4.

Specific measures see section 4.
Rinse mouth.
Remove/Take off immediately all contaminated clothing.
Wash contaminated clothing before reuse.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage: Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal: Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: No data available.

Repeated Exposure Target Organs: No data available.

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
methanol	67-56-1	200-659-6	99.900000
cis-chlordane	5103-71-9		0.100000

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal

evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
cis-chlordane	5103-71-9	ND		No TLV	No data available.

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color: No data available.
Odor: Mild
Physical State: No data available.
pH: No data available
Vapor Density: 1.1 (air = 1)
Melting Point: -98 °C
Flash Point: 52
Flammability: Highly Flammable
Upper Flammable/Explosive Limit, % in air: 36.0
Lower Flammable/Explosive Limit, % in air: 6.0
Autoignition Temperature: 464 deg C
Decomposition Temperature: No data available.
Specific Gravity: 0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate: No data available.
Odor Threshold: No data available.
Solubility: Moderate; 50-99%
Partition Coefficient: n-octanol in water: No data available.
VOC % by weight: 99.90
Molecular Weight: 32.04

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Conditions to Avoid: No data available.
Materials to Avoid / Chemical Incompatiability: Strong oxidizing agents
Hazardous Decomposition Products: Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure: Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract
Chemical Interactions That Change Toxicity: None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.
Skin Contact:	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact:	Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.
Ingestion Toxicity:	Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	No data.
Reproductive and Developmental Toxicity:	Contains a known human reproductive and/or developmental hazard.
Inhalation:	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)
Skin Contact:	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Ingestion:	Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:

NIOSH:

Chemical Name	CAS No.	LD50/LC50
Methanol	67-56-1	Oral LD50 Rat 5628 mg/kg (Source: NLM_CIP); Inhalation LC50 Rat 83.2 mg/L 4 h (Source: IUCLID)

Component Carcinogenic Data:

OSHA:

Chemical Name	CAS No.
No data available.	

ACGIH:

Chemical Name	CAS No.
No data available.	

NIOSH:

Chemical Name	CAS No.
No data available.	

NTP:

Chemical Name	CAS No.
No data available.	

IARC:

Chemical Name	CAS No.	Group No.
No data.		Group 1
No data.		Group 2A
cis-Chlordane	5103-71-9	Group 2B

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data

Bioaccumulation: No data
Degradability: Biodegrades slowly.
Ecological Toxicity Data: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product: Spent or discarded material is a hazardous waste.
Disposal Methods: Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging: Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:
DOT Proper Shipping Name: Methanol
UN Number: UN1230
Hazard Class: 3
Packing Group: II

International:
IATA Proper Shipping Name: Methanol
UN Number: UN1230
Hazard Class: 3 (6.1)
Packing Group: II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available.			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
methanol	67-56-1	X	X	-	X
cis-chlordane	5103-71-9	X	-	-	-

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
methanol	67-56-1	X	X	X	X
cis-chlordane	5103-71-9	-	-	-	-

16. OTHER INFORMATION

Prior Version Date: 04/22/14
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SAFETY DATA SHEET
SIN-1 (chloride)

Revision: 12/19/2018
Supersedes Revision: 01/23/2015

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Code: 82220

Product Name: SIN-1 (chloride)

Synonyms: 5-amino-3-(4-morpholinyl)-1,2,3-oxadiazolium chloride; Linsidomine; 3-Morpholino-sydnonimine;

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses: For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name: Cayman Chemical Company
1180 E. Ellsworth Rd.
Ann Arbor, MI 48108

Web site address: www.caymanchem.com

Information: Cayman Chemical Company +1 (734)971-3335

1.4 Emergency telephone number:

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300
CHEMTREC Outside USA and Canada: +1 (703)527-3887

Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture:

2.2 Label Elements:

GHS Signal Word: **None**

GHS Hazard Phrases:

Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.

GHS Precaution Phrases:

No phrases apply.

GHS Response Phrases:

No phrases apply.

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Effects and Symptoms: Material may be irritating to the mucous membranes and upper respiratory tract.
May be harmful by inhalation, ingestion, or skin absorption.
May cause eye, skin, or respiratory system irritation.
To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
16142-27-1 WU7687800	SIN-1 Chloride	100.0 %	605-254-1 NA	Flam. Sol. 1: H228 Self-React. B: H241 Acute Tox.(O) 4: H302 Skin Sens. 1A: H317 Aquatic (C) 2: H411

SAFETY DATA SHEET
SIN-1 (chloride)

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Section 4. First Aid Measures

4.1 Description of First Aid Measures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.

In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media: A solid water stream may be inefficient.

5.2 Flammable Properties and Hazards: No data available.

No data available.

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

6.1 Protective Precautions, Protective Equipment and Emergency Procedures: Avoid raising and breathing dust, and provide adequate ventilation.
As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2 Environmental Precautions: Take steps to avoid release into the environment, if safe to do so.

6.3 Methods and Material For Containment and Cleaning Up: Contain spill and collect, as appropriate.
Transfer to a chemical waste container for disposal in accordance with local regulations.

Section 7. Handling and Storage

7.1 Precautions To Be Taken in Handling: Avoid breathing dust/fume/gas/mist/vapours/spray.
Avoid prolonged or repeated exposure.

7.2 Precautions To Be Taken in Storing: Keep container tightly closed.
Store in accordance with information listed on the product insert.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

8.2 Exposure Controls:

8.2.1 Engineering Controls (Ventilation etc.): Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

8.2.2 Personal protection equipment:

Eye Protection: Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

Respiratory Equipment (Specify Type): NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices: Do not take internally.
Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.
Wash thoroughly after handling.
No data available.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: [ ] Gas [ ] Liquid [X] Solid

Appearance and Odor: A crystalline solid

pH: No data.

Melting Point: No data.

Boiling Point: No data.

Flash Pt: No data.

Evaporation Rate: No data.

Flammability (solid, gas): No data available.

Explosive Limits: LEL: No data. UEL: No data.

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): No data.

Solubility in Water: No data.

Solubility Notes: ~10 mg/ml in PBS (pH 7.2); ~5 mg/ml in EtOH, DMSO, & DMF;

Octanol/Water Partition Coefficient: No data.

Autoignition Pt: No data.

Decomposition Temperature: No data.

Viscosity: No data.

9.2 Other Information

Percent Volatile: No data.

Molecular Formula & Weight: $C_6H_{11}N_4O_2 \cdot Cl$ 206.6

SAFETY DATA SHEET
SIN-1 (chloride)

Revision: 12/19/2018
Supersedes Revision: 01/23/2015

Section 10. Stability and Reactivity

10.1 Reactivity: No data available.

10.2 Stability: Unstable [ ] Stable [X]

10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.

Polymerization: Will occur [ ] Will not occur [X]

10.4 Conditions To Avoid: No data available.

10.5 Incompatibility - Materials To Avoid: strong oxidizing agents

10.6 Hazardous Decomposition or Byproducts:
carbon dioxide
carbon monoxide
hydrogen chloride gas
nitrogen oxides

Section 11. Toxicological Information

11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied.
SIN-1 (chloride) - Toxicity Data: Oral LD50 (mouse): 480 mg/kg; Intraperitoneal LD50 (mouse): 315 mg/kg;

Chronic Toxicological Effects: SIN-1 (chloride) - Investigated as a drug and mutagen.
Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.
See actual entry in RTECS for complete information.
SIN-1 (chloride) RTECS Number: WU7687800

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
16142-27-1	SIN-1 Chloride	n.a.	n.a.	n.a.	n.a.

Section 12. Ecological Information

12.1 Toxicity: Avoid release into the environment.
Runoff from fire control or dilution water may cause pollution.

12.2 Persistence and Degradability: No data available.

12.3 Bioaccumulative Potential: No data available.

12.4 Mobility in Soil: No data available.

12.5 Results of PBT and vPvB assessment: No data available.

12.6 Other adverse effects: No data available.

Section 13. Disposal Considerations

13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not dangerous goods.

DOT Hazard Class:

UN/NA Number:

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not dangerous goods.

UN Number:

Hazard Class:

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

Section 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
16142-27-1	SIN-1 Chloride	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
16142-27-1	SIN-1 Chloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No

Regulatory Information Statement: This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.

Section 16. Other Information

Revision Date: 12/19/2018

Additional Information About This Product: No data available.

Company Policy or Disclaimer: DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

SAFETY DATA SHEET

Version 6.4
Revision Date 03/08/2024
Print Date 05/12/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Chlorobenzene-$^{13}C_6$

Product Number : 488534
Brand : Aldrich
Index-No. : 602-033-00-1
CAS-No. : 287389-52-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3), H226
Acute toxicity, Inhalation (Category 4), H332
Short-term (acute) aquatic hazard (Category 2), H401
Long-term (chronic) aquatic hazard (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

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Pictogram	
Signal Word	Warning
Hazard Statements	
H226	Flammable liquid and vapor.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.
Precautionary Statements	
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing mist or vapors.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	$^{13}C_6H_5Cl$
Molecular weight	:	118.45 g/mol
CAS-No.	:	287389-52-0
Index-No.	:	602-033-00-1

Component	Classification	Concentration
Chlorobenzene-13C6		
	Flam. Liq. 3; Acute Tox. 4; Aquatic Acute 2; Aquatic Chronic 2; H226, H332, H401, H411	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. If breathing stops: mouth-to-mouth breathing or artificial respiration. Oxygen if necessary. Immediately call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact
After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed
After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Hydrogen chloride gas
Combustible.
Vapors are heavier than air and may spread along floors.
Forms explosive mixtures with air at elevated temperatures.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

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5.4 Further information

Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Storage class
Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Chlorobenzene-13C6	287389-52-0	TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Confirmed animal carcinogen with unknown relevance to humans		
		TWA	75 ppm 350 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		PEL	10 ppm 46 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Chlorobenzene-13C6	287389-52-0	4-Chlorocatechol	100mg/g creatinine	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			
		p-Chlorophenol	20mg/g creatinine	Urine	ACGIH - Biological Exposure Indices (BEI)
		End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
required

Body Protection
Flame retardant antistatic protective clothing.

Respiratory protection
Recommended Filter type: Filter type ABEK

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The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when vapours/aerosols are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -45 °C (-49 °F) - lit.
f)	Initial boiling point and boiling range	132 °C 270 °F - lit.
g)	Flash point	23.9 °C (75.0 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	1.164 g/mL at 25 °C (77 °F)1.164 g/cm3 at 25 °C (77 °F)
	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 5.0
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available

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s) Explosive properties No data available

t) Oxidizing properties No data available

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
Vapor/air-mixtures are explosive at intense warming.

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heating.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Oral: No data available
LC50 Inhalation - 4.0 h - 11.0 mg/l - vapor

Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation
Remarks: No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

Incoordination., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

DOT (US)
UN number: 1134 Class: 3 Packing group: III
Proper shipping name: Chlorobenzene
Reportable Quantity (RQ): 100 lbs
Reportable Quantity (RQ): 100 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 1134 Class: 3 Packing group: III EMS-No: F-E, S-D
Proper shipping name: CHLOROBENZENE
Marine pollutant : yes

IATA
UN number: 1134 Class: 3 Packing group: III
Proper shipping name: Chlorobenzene

SECTION 15: Regulatory information

SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Chlorobenzene-13C6	287389-52-0	2007-07-01

SARA 311/312 Hazards
Fire Hazard, Chronic Health Hazard

Reportable Quantity : D021 lbs

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Chlorobenzene-13C6	287389-52-0	2007-07-01

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SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.4 Revision Date: 03/08/2024 Print Date: 05/12/2024

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SAFETY DATA SHEET

Version 6.11
Revision Date 09/06/2024
Print Date 09/07/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Chloroform

Product Number : 288306
Brand : Sigma-Aldrich
Index-No. : 602-006-00-4
CAS-No. : 67-66-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 3), H331
Skin irritation (Category 2), H315

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Eye irritation (Category 2A), H319
Carcinogenicity (Category 2), H351
Reproductive toxicity (Category 2), H361
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
Specific target organ toxicity - repeated exposure, Oral (Category 1), Liver, Kidney, H372
Short-term (acute) aquatic hazard (Category 3), H402

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word	Danger
Hazard Statements	
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs (Liver, Kidney) through prolonged or repeated exposure if swallowed.
H402	Harmful to aquatic life.
Precautionary Statements	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe mist or vapors.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal

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plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	:	Trichloromethane Methylidyne trichloride
Formula	:	$CHCl_3$
Molecular weight	:	119.38 g/mol
CAS-No.	:	67-66-3
EC-No.	:	200-663-8
Index-No.	:	602-006-00-4

Component	Classification	Concentration
Chloroform		
	Acute Tox. 4; Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2A; Carc. 2; Repr. 2; STOT SE 3; STOT RE 1; Aquatic Acute 3; H302, H331, H315, H319, H351, H361, H336, H372, H402 Concentration limits: 20 %: STOT SE 3, H336;	<= 100 %

ethanol		
	Flam. Liq. 2; Eye Irrit. 2A; H225, H319 Concentration limits: >= 50 %: Eye Irrit. 2A, H319;	>= 1 - < 5 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

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In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Hydrogen chloride gas
Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

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6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Chloroform	67-66-3	TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Confirmed animal carcinogen with unknown relevance to humans		
		ST	2 ppm 9.78 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen		

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		C	50 ppm 240 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		PEL	2 ppm 9.78 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		STEL	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Confirmed animal carcinogen with unknown relevance to humans		
		TWA	1,000 ppm 1,900 mg/m3	USA. NIOSH Recommended Exposure Limits
		PEL	1,000 ppm 1,900 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: Viton®
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: butyl-rubber
Minimum layer thickness: 0.7 mm
Break through time: 10 min

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Material tested:Butoject® (KCL 898)

Body Protection
protective clothing

Respiratory protection
Recommended Filter type: Filter type AX
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when vapours/aerosols are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Color: colorless
b)	Odor	sweet
c)	Odor Threshold	205 ppm
d)	pH	No data available
e)	Melting point/freezing point	Melting point: -64 °C (-83 °F)
f)	Initial boiling point and boiling range	60.5 - 61.5 °C 140.9 - 142.7 °F at 1,013.25 hPa
g)	Flash point	() - Regulation (EC) No. 440/2008, Annex, A.9does not flash
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	210 hPa at 20 °C (68 °F)
l)	Vapor density	4.12 - (Air = 1.0)
m)	Density	1.49 g/cm3 at 25 °C (77 °F)
	Relative density	No data available
n)	Water solubility	8.7 g/l at 23 °C (73 °F) - OECD Test Guideline 105 - soluble
o)	Partition coefficient: n-octanol/water	No data available

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p)	Autoignition temperature	No data available
q)	Decomposition temperature	Distillable in an undecomposed state at normal pressure.
r)	Viscosity	No data available
s)	Explosive properties	Not classified as explosive.
t)	Oxidizing properties	none

9.2 Other safety information

Solubility in other solvents	organic solvent at 20 °C (68 °F) - miscible
Relative vapor density	4.12 - (Air = 1.0)

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .
Contains the following stabilizer(s):
ethanol (>=0.5 - <=1 %)

10.3 Possibility of hazardous reactions

Risk of explosion with:
Ammonia
Amines
nitrogen oxides
bases
Oxygen
alkali amides
organic nitro compounds
strong alkalis
Fluorine
peroxi compounds
Alkaline earth metals
Alkali metals
Powdered metals
Methanol
with
alcoholates
Methanol
with
strong alkalis
Iron
in powder form
various alloys

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sensitive to shock
Methanol
with
Sodium hydroxide
magnesium
in powder form
Oxygen
with
alkali compounds
Aluminum
in powder form
Acetone
with
alkali compounds
Potassium
sensitive to shock
sodium
sensitive to shock
Violent reactions possible with:
phosphines
bis(dimethylamino)dimethyl tin
nonmetallic hydrogen compounds
Powdered metals
Light metals
Ketones
mineral acids
Strong oxidizing agents
semimetallic hydrogen compounds

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Acute toxicity estimate Oral - 912.56 mg/kg
(Calculation method)
LD50 Oral - Rat - male - 908 mg/kg
(OECD Test Guideline 401)
Acute toxicity estimate Inhalation - 4 h - 3.12 mg/l - vapor(Calculation method)

LC50 Inhalation - Rat - 6 h - 9.17 mg/l - vapor

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Acute toxicity estimate Inhalation - Expert judgment - 4 h - 3.1 mg/l - vapor

Dermal: No data available
No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Irritating to skin. - 24 h
Remarks: (ECHA)
Remarks: Drying-out effect resulting in rough and chapped skin.
Skin - Rabbit
Result: slight irritation
Remarks: (IUCLID)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Irritating to eyes.
Remarks: (ECHA)
Remarks: (Regulation (EC) No 1272/2008, Annex VI)

Respiratory or skin sensitization
Maximization Test - Guinea pig
Result: negative
(Regulation (EC) No. 440/2008, Annex, B.6)

Germ cell mutagenicity
Test Type: Ames test
Test system: Escherichia coli/Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative
Remarks: (ECHA)
Test Type: unscheduled DNA synthesis assay
Test system: Liver
Metabolic activation: without metabolic activation
Result: negative
Remarks: (ECHA)

Test Type: Micronucleus test
Species: Rat
Cell type: Red blood cells (erythrocytes)
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

Test Type: unscheduled DNA synthesis assay
Species: Rat
Cell type: Liver cells
Application Route: Oral
Method: OECD Test Guideline 486
Result: negative

Test Type: in vivo assay
Species: Mouse

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Application Route: Inhalation

Result: negative
Remarks: (ECHA)

Carcinogenicity
Suspected of causing cancer.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Chloroform)

NTP: RAHC - Reasonably anticipated to be a human carcinogen (Chloroform)

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure
May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure
Oral - Causes damage to organs through prolonged or repeated exposure.
- Liver, Kidney

Aspiration hazard
No data available

11.2 Additional Information

Repeated dose toxicity - Rat - female - Oral - NOAEL (No observed adverse effect level) - 34 mg/kg

Vomiting, Cough, irritant effects, Shortness of breath, respiratory arrest, narcosis, Dizziness, Nausea, agitation, spasms, inebriation, Headache, Stomach/intestinal disorders, ataxia (impaired locomotor coordination), cardiovascular disorders
Drying-out effect resulting in rough and chapped skin.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Crassostrea gigas - 152.5 mg/l - 48 h Remarks: (ECHA)
Toxicity to algae	static test ErC50 - Chlamydomonas reinhardtii (green algae) - 13.3 mg/l - 72 h Remarks: (ECHA)

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Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	semi-static test NOEC - Daphnia magna (Water flea) - 6.3 mg/l - 21 d Remarks: (ECHA)

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)
UN number: 1888 Class: 6.1 Packing group: III
Proper shipping name: ChloroformSOLUTION

Reportable Quantity (RQ): 10 lbs
Reportable Quantity (RQ): 10 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 1888 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: CHLOROFORMSOLUTION

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IATA
UN number: 1888 Class: 6.1 Packing group: III
Proper shipping name: ChloroformSOLUTION

SECTION 15: Regulatory information

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Chloroform	67-66-3	10	10
Chloroform	67-66-3	10	10 (D022)

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Chloroform	67-66-3	10	10

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
Chloroform	67-66-3	10000

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Chloroform 67-66-3 >= 90 - <= 100 %

US State Regulations

Massachusetts Right To Know

Chloroform 67-66-3
ethanol 64-17-5

Pennsylvania Right To Know

Chloroform 67-66-3
ethanol 64-17-5

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Prop. 65

WARNING: This product can expose you to chemicals including Chloroform, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

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TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.11 Revision Date: 09/06/2024 Print Date: 09/07/2024

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SAFETY DATA SHEET

Version 6.8
Revision Date 09/07/2024
Print Date 09/08/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Chromium

Product Number : 266299
Brand : Aldrich
CAS-No. : 7440-47-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

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SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	Cr
Molecular weight	:	52.00 g/mol
CAS-No.	:	7440-47-3
EC-No.	:	231-157-5

Component	Classification	Concentration
chromium		
		<= 100 %

SECTION 4: First aid measures

4.1 Description of first-aid measures

If inhaled
After inhalation: fresh air.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact
After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed
After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Chromium oxides

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

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5.4 Further information
none

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions
No special precautionary measures necessary.

6.3 Methods and materials for containment and cleaning up
Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Dry.

Air sensitive.

Storage class
Storage class (TRGS 510): 11: Combustible Solids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

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Component	CAS-No.	Value	Control parameters	Basis
chromium	7440-47-3	TWA	0.5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		PEL	0.5 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		TWA	1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
chromium	7440-47-3	Total chromium	0.7 µg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls
Change contaminated clothing. Wash hands after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our

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customers. It should not be construed as offering an approval for any specific use scenario.

Respiratory protection
Recommended Filter type: Filter type P1
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
No special precautionary measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Color: light gray
b)	Odor	odorless
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/ range: 1,857 °C (3,375 °F) - lit.
f)	Initial boiling point and boiling range	2,672 °C 4,842 °F - lit.
g)	Flash point	()Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	7.14 g/mL at 25 °C (77 °F) - lit.
	Relative density	No data available
n)	Water solubility	insoluble
o)	Partition coefficient: n-octanol/water	Not applicable for inorganic substances

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p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
Strong acids, Strong oxidizing agents

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Oral: No data available
Inhalation: No data available
Dermal: No data available
No data available

Skin corrosion/irritation
Remarks: No data available

Serious eye damage/eye irritation
Remarks: No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity

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No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

RTECS: GB4200000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	LC50 - Cyprinus carpio (Carp) - 14.3 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.07 mg/l - 48 h

12.2 Persistence and degradability
The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Bioaccumulation	Oncorhynchus mykiss (rainbow trout) - 30 d - 50 µg/l(chromium)
	Bioconcentration factor (BCF): 1.03 - 1.22

12.4 Mobility in soil
No data available

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operates as MilliporeSigma in the US and Canada

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)

UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (chromium)
Reportable Quantity (RQ): 5000 lbs
Reportable Quantity (RQ): 10 lbs
Poison Inhalation Hazard: No

IMDG

Not dangerous goods

IATA

Not dangerous goods

Further information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
chromium	7440-47-3	5000	5000

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SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Chronic Health Hazard
SARA 313	:	The following components are subject to reporting levels established by SARA Title III, Section 313:

chromium	7440-47-3	>= 90 - <= 100 %

US State Regulations

Massachusetts Right To Know

chromium	7440-47-3

Pennsylvania Right To Know

chromium	7440-47-3

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:

TSCA	:	All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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SAFETY DATA SHEET

Based on Directive 2001/58/EC of the Commission of the European Communities

CHRYSENE

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Synonyms: none

CAS No.	: 218-01-9	**BCR number**	: BCR-269
EC index No.	: 601-048-00-0	**NFPA code**	: N.D.
EINECS No.	: 205-923-4	**Molecular weight**	: 228.30
RTECS No.	: GC0700000	**Formula**	: C18H12

1.2 Use of the substance or the preparation:
Certified reference material for laboratory use only

1.3 Company/undertaking identification:
Institute for Reference Materials and Measurements
Retieseweg
B-2440 Geel
Tel. : +32 14 57 12 11
Fax : +32 14 58 42 73

1.4 Telephone number for emergency:
+32 70 245 245
Antigifcentrum
p/a Militair Hospitaal Koningin Astrid, Bruynstraat, B-1120 Brussel

2. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS No.	Conc. in %	Hazard symbol	Risks (R-phrases)
chrysene	218-01-9 205-923-4	100	T;N	45-50/53 (1)

(1) For R-phrases in full: see heading 16

3. Hazards identification

- May cause cancer
- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

4. First aid measures

4.1 Eye contact:
- Consult a doctor/medical service if irritation persists
- Rinse immediately with water

4.2 Skin contact:
- Consult a doctor/medical service if irritation persists
- Wash with water and soap
- Wipe off dry product from skin
- Remove clothing before washing

4.3 After inhalation:
- Consult a doctor/medical service if breathing problems develop
- Remove the victim into fresh air
- Unconscious: maintain adequate airway and respiration

4.4 After ingestion:
- Consult a doctor/medical service if you feel unwell
- Immediately give lots of water to drink
- Never give water to an unconscious person

- Do not induce vomiting

5. Fire-fighting measures

5.1 Suitable extinguishing media:
- Water spray
- Alcohol foam
- Polymer foam
- ABC powder
- Carbon dioxide

5.2 Unsuitable extinguishing media:
- Solid water jet ineffective as extinguishing medium

5.3 Special exposure hazards:
- Not easily combustible
- Upon combustion CO and CO2 are formed

5.4 Instructions:
- Take account of toxic firefighting water
- Use firefighting water moderately and contain it

5.5 Special protective equipment for firefighters:
- Heat/fire exposure: compressed air/oxygen apparatus
- Dust cloud production: compressed air/oxygen apparatus

6. Accidental release measures

6.1 Personal protection/precautions: see heading 8.1/8.3/10.3

6.2 Environmental precautions:
- Prevent soil and water pollution
- Substance must not be discharged into the sewer
- Dam up the solid spill

6.3 Methods for cleaning up:
- Stop dust cloud by covering with sand/earth
- Carefully collect the spill/leftovers
- Scoop solid spill into closing containers
- Spill must not return in its original container
- Take collected spill to manufacturer/competent authority
- Clean contaminated surfaces with an excess of water
- Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:
- Observe strict hygiene
- Avoid prolonged and repeated contact with skin
- Avoid raising dust
- Do not discharge the waste into the drain
- Remove contaminated clothing immediately

7.2 Storage:
- Keep container tightly closed. Store only in a limited quantity. Store in a dry area. Store in a dark area.
- Keep away from: heat sources, ignition sources, oxidizing agents, acids

Storage temperature	:	N.D.	**°C**
Quantity limits	:	N.D.	**kg**
Storage life	:	N.D.	
Materials for packaging	:		

- suitable : no data available
- to avoid : no data available

7.3 Specific uses:
- See information supplied by the manufacturer

8. Exposure controls/Personal protection

8.1 Exposure limit values:

TLV-TWA	:	not listed
TLV-STEL	:	not listed
TLV-Ceiling	:	not listed
OES-LTEL	:	not listed
OES-STEL	:	not listed
MEL-LTEL	:	not listed
MEL-STEL	:	not listed
MAK	:	not listed
TRK	:	not listed
MAC-TGG 8 h	:	not listed
MAC-TGG 15 min.	:	not listed
MAC-Ceiling	:	not listed
VME-8 h	:	not listed
VLE-15 min.	:	not listed
GWBB-8 h	:	not listed
GWK-15 min.	:	not listed
Momentary value	:	not listed
EC	:	not listed
EC-STEL	:	not listed

Sampling methods:

- Chrysene (Polynuclear aromatic Hydrocarbons)	NIOSH 5515
- Chrysene	OSHA 58
- Chrysene (Polynuclear aromatic Hydrocarbons)	NIOSH 5506

8.2 Exposure controls:

8.2.1 Occupational exposure controls:
- Measure the concentration in the air regularly
- Work under local exhaust/ventilation

8.2.2 Environmental exposure controls: see heading 13

8.3 Personal protection:

8.3.1 respiratory protection:
- Dust production: dust mask with filter type P3
- High dust production: compressed air/oxygen apparatus

8.3.2 hand protection:
- Gloves
  Suitable materials: No data available
- Breakthrough time: N.D.

8.3.3 eye protection:
- Safety glasses
- In case of dust production: protective goggles

8.3.4 skin protection:
- Protective clothing
- In case of dust production: head/neck protection
  Suitable materials: No data available

9. Physical and chemical properties

9.1 General information:

Appearance (at 20°C)	: Crystalline solid / Flakes	
Odour	: Odourless	
Colour	: White	

9.2 Important health, safety and environmental information:

pH value	: N.D.	
Boiling point/boiling range	: 448	**°C**
Flashpoint	: N.D.	**°C**
Explosion limits	: N.D.	**vol% (°C)**
Vapour pressure (at 20°C)	: N.D.	**hPa**
Vapour pressure (at 50°C)	: N.D.	**hPa**
Relative density (at 20°C)	: 1.27	
Water solubility	: < 0.001	**g/100 ml**
Soluble in	: N.D.	
Relative vapour density	: N.D.	
Viscosity	: N.D.	**Pa.s**
Partition coëfficient n-octanol/water	: 5.61/5.73	
Evaporation rate		
ratio to butyl acetate	: N.D.	
ratio to ether	: N.D.	

9.3 Other information:

Melting point/melting range	: 256	**°C**
Auto-ignition point	: N.D.	**°C**
Saturation concentration	: N.D.	**g/m^3**

10. Stability and reactivity

10.1 Conditions to avoid/reactivity:
- Stable under normal conditions

10.2 Materials to avoid:
- Keep away from: heat sources, ignition sources, oxidizing agents, acids

10.3 Hazardous decomposition products:
- Upon combustion CO and CO2 are formed
- Reacts violently with (strong) oxidizers
- Decomposes on exposure to (strong) acids

11. Toxicological information

11.1 Acute toxicity:

LD50 oral rat	: N.D.	**mg/kg**
LD50 dermal rat	: N.D.	**mg/kg**
LD50 dermal rabbit	: N.D.	**mg/kg**
LC50 inhalation rat	: N.D.	**mg/l/4 h**
LC50 inhalation rat	: N.D.	**ppm/4 h**

11.2 Chronic toxicity:

EC carc. cat.	:	2
EC muta. cat.	:	3
EC repr. cat.	:	not listed
Carcinogenicity (TLV)	:	A3
Carcinogenicity (MAC)	:	K
Carcinogenicity (VME)	:	not listed
Carcinogenicity (GWBB)	:	not listed
Carcinogenicity (MAK)	:	2
Mutagenicity (MAK)	:	not listed
Teratogenicity (MAK)	:	-
IARC classification	:	3

11.3 Routes of exposure: ingestion, inhalation, eyes and skin
Caution! Substance is absorbed through the skin

11.4 Acute effects/symptoms:

AFTER SKIN CONTACT
- Slight irritation

11.5 Chronic effects:

- Probably human carcinogenic
- No certainty about human mutagenic properties

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:
- No specific information available

SIMILAR PRODUCTS CAUSE FOLLOWING SYMPTOMS:
- Feeling of weakness
- Photoallergy
- Cracking of the skin
- Skin rash/inflammation
- Skin cancer
- Lung tissue affection/degeneration
- Enlargement/affection of the liver
- Affection of the renal tissue

12. Ecological information

12.1 Ecotoxicity:

- LC50 (24 h) : 0.0007 mg/l (DAPHNIA MAGNA)
- LC50 (24 h) : >6.7 mg/l (RANA SP.)

12.2 Mobility:

- **Volatile organic compounds (VOC):** N.D.%

- Forming sediments in water
- Adsorbs into the soil
- Insoluble in water

For other physicochemical properties see heading 9.

12.3 Persistence and degradability:

- biodegradation BOD_5	:	N.D.	**% ThOD**
- water	:	- Not readily biodegradable in water	
- soil	:	**T ½:** > 77	**days**

12.4 Bioaccumulative potential:
- **log P_{ow}** : 5.61/5.73
- **BCF** : 4440 (LAMELLIBRANCHIATA)
- Highly bioaccumulative

12.5 Other adverse effects:

- **WGK** : 3 (Classification based on the R-phrases in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)
- **Effect on the ozone layer** : Not dangerous for the ozone layer (Council Regulation (EC) 3093/94)
- **Greenhouse effect** : no data available
- **Effect on waste water purification** : no data available

13. Disposal considerations

13.1 Provisions relating to waste:

- Waste material code (91/689/EEC, Council Decision
- 2001/118/EC, O.J. L47 of 16/2/2001): 16 05 06 (laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory)
- Waste material code (Flanders): 001, 045, 691
- Waste code (Germany): 59302
- Hazardous waste (91/689/EEC)

13.2 Disposal methods:

- Dissolve or mix with a combustible solvent
- Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber
- Do not discharge into surface water (2000/60/EEC, Council

13.3 Packaging/Container:

- Waste material code packaging (91/689/EEC, Council Decision
- 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10 (packaging containing residues of or contaminated by dangerous substances)

14. Transport information

90
3077

14.1 Classification of the substance in compliance with UN Recommendations

UN number	: 3077
CLASS	: 9
SUB RISKS	: -
PACKING	: III
PROPER SHIPPING NAME	: UN 3077, Environmentally hazardous substance, solid, n.o.s. (chrysene)

14.2 ADR (transport by road)

CLASS	: 9
PACKING	: III
DANGER LABEL TANKS	: 9
DANGER LABEL PACKAGES	: 9

14.3 RID (transport by rail)

CLASS	: 9
PACKING	: III
DANGER LABEL TANKS	: 9
DANGER LABEL PACKAGES	: 9

14.4 ADNR (transport by inland waterways)

CLASS	: 9
PACKING	: III
DANGER LABEL TANKS	: 9
DANGER LABEL PACKAGES	: 9

14.5 IMDG (maritime transport)

CLASS	: 9
SUB RISKS	: -
PACKING	: III
MFAG	: -
EMS	: -
MARINE POLLUTANT	: P

14.6 ICAO (air transport)

CLASS	: 9
SUB RISKS	: -
PACKING	: III
PACKING INSTRUCTIONS PASSENGER AIRCRAFT	:
PACKING INSTRUCTIONS CARGO AIRCRAFT	:

14.7 Special precautions in connection with transport : none

14.8 Limited quantities (LQ) :

When substances and their packaging meet the conditions established by ADR/RID/ADNR in chapter 3.4, **only** the following prescriptions shall be complied with:
each package shall display a diamond-shaped figure with the following inscription:
- 'UN 3077'
or, in the case of different goods with different identification numbers within a single package:
- the letters 'LQ'

15. Regulatory information

Enumerated in substance list Annex I of directive 67/548/EEC et sequens

Toxic

Dangerous for the environment

R45 : May cause cancer
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S53 : Avoid exposure - obtain special instructions before use
S45 : In case of accident or if you feel unwell, seek medical advice (show the label where possible)
S60 : This material and/or its container must be disposed of as hazardous waste
S61 : Avoid release to the environment. Refer to special instructions/safety data sheets.

16. Other information

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE
N.D. = NOT DETERMINED
***** = INTERNAL CLASSIFICATION

Full text of any R-phrases referred to under heading 2:

R45 : May cause cancer
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Exposure limits:

TLV : Threshold Limit Value - ACGIH USA 2000
OES : Occupational Exposure Standards - United Kingdom 1999
MEL : Maximum Exposure Limits - United Kingdom 1999
MAK : Maximale Arbeitsplatzkonzentrationen - Germany 2001
TRK : Technische Richtkonzentrationen - Germany 2001
MAC : Maximale aanvaarde concentratie - The Netherlands 2002
VME : Valeurs limites de Moyenne d'Exposition - France 1999
VLE : Valeurs limites d'Exposition à court terme - France 1999
GWBB : Grenswaarde beroepsmatige blootstelling - Belgium 1998
GWK : Grenswaarde kortstondige blootstelling - Belgium 1998
EC : Indicative occupational exposure limit values - directive 2000/39/EC

Chronic toxicity:

K : List of the carcinogenic substances and processes - The Netherlands 2002

SAFETY DATA SHEET

Version 4.4
Revision Date 12/01/2015
Print Date 02/11/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	cis-Dichloroethylene
Product Number	:	48597
Brand	:	Supelco
Index-No.	:	602-026-00-3
CAS-No.	:	156-59-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Acute toxicity, Inhalation (Category 4), H332
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.

P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/ physician if you feel unwell.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	C2H2Cl2
Molecular weight	:	96.94 g/mol
CAS-No.	:	156-59-2
EC-No.	:	205-859-7
Index-No.	:	602-026-00-3

Hazardous components

Component	Classification	Concentration
cis-Dichloroethylene		
	Flam. Liq. 2; Acute Tox. 4; Aquatic Acute 3; Aquatic Chronic 3; H225, H332, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature 2 - 8 °C

Handle and store under inert gas. Air and moisture sensitive. Light sensitive.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
cis-Dichloroethylene	156-59-2	TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Eye irritation		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: light yellow
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	-80.0 °C (-112.0 °F)
f)	Initial boiling point and boiling range	60.0 - 61.0 °C (140.0 - 141.8 °F)
g)	Flash point	6.0 °C (42.8 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	1.28 g/cm3
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available

p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5 Incompatible materials
Oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LC50 Inhalation - Rat - 13700 ppm
Remarks: Behavioral:Somnolence (general depressed activity). Liver:Fatty liver degeneration.

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: KV9420000

narcosis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1150 Class: 3 Packing group: II
Proper shipping name: 1,2-Dichloroethylene

Poison Inhalation Hazard: No

IMDG
UN number: 1150 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: 1,2-DICHLOROETHYLENE

IATA
UN number: 1150 Class: 3 Packing group: II
Proper shipping name: 1,2-Dichloroethylene

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
cis-Dichloroethylene	156-59-2	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
cis-Dichloroethylene	156-59-2	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
cis-Dichloroethylene	156-59-2	1993-04-24

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H332	Harmful if inhaled.
H402	Harmful to aquatic life.

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	1

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.4 Revision Date: 12/01/2015 Print Date: 02/11/2016

SAFETY DATA SHEET

Version 6.12
Revision Date 09/08/2024
Print Date 09/09/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Cobalt

Product Number : 266647
Brand : Aldrich
Index-No. : 027-001-00-9
CAS-No. : 7440-48-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable solids (Category 1), H228
Eye irritation (Category 2A), H319
Respiratory sensitization (Category 1), H334

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Skin sensitization (Category 1), H317
Germ cell mutagenicity (Category 2), H341
Carcinogenicity (Category 1B), H350
Reproductive toxicity (Category 1B), H360
Long-term (chronic) aquatic hazard (Category 4), H413

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram	
Signal Word	Danger
Hazard Statements	
H228	Flammable solid.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H413	May cause long lasting harmful effects to aquatic life.
Precautionary Statements	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P261	Avoid breathing dust.
P264	Wash skin thoroughly after handling.
P272	Contaminated work clothing must not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P285	In case of inadequate ventilation wear respiratory protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P341	IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
P363	Wash contaminated clothing before reuse.

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P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	Co
Molecular weight	:	58.93 g/mol
CAS-No.	:	7440-48-4
EC-No.	:	231-158-0
Index-No.	:	027-001-00-9

Component	Classification	Concentration
Cobalt		
	Flam. Sol. 1; Eye Irrit. 2A; Resp. Sens. 1; Skin Sens. 1; Muta. 2; Carc. 1B; Repr. 1B; Aquatic Chronic 4; H228, H319, H334, H317, H341, H350, H360, H413	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

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4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Cobalt/cobalt oxides
Not combustible.
Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections
For disposal see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture.

Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.

Air sensitive. Handle and store under inert gas.

Storage class
Storage class (TRGS 510): 4.1B: Flammable solid hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Cobalt	7440-48-4	TWA	0.05 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.05 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		PEL	0.02 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		TWA	0.005 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Respiratory sensitization Suspected human carcinogen		

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		TWA	0.02 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Dermal Sensitization Respiratory sensitization Confirmed animal carcinogen with unknown relevance to humans		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Cobalt	7440-48-4	Cobalt	15 µg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			
		Cobalt		Urine	ACGIH - Biological Exposure Indices (BEI)
		End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
Handle with impervious gloves.

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Body Protection
Flame retardant antistatic protective clothing.

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Respiratory protection
Recommended Filter type: Filter type P3
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	2,900 °C 5,252 °F - lit.
g)	Flash point	()Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	The substance or mixture is a flammable solid with the category 1.
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	8.9 g/mL at 25 °C (77 °F) - lit.
	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 5.0
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available

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r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
Oxidizing agents, Mineral acidsAcetylene, Hydrazinium nitrate, Material readily reacts with acids generating flammable and/or explosive hydrogen gas.

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 6,171 mg/kg
Remarks: Behavioral:Somnolence (general depressed activity).
Behavioral:Ataxia.
Diarrhea
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Causes serious eye irritation.
(OECD Test Guideline 405)

Respiratory or skin sensitization
May cause allergic respiratory and skin reactions

Germ cell mutagenicity

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Suspected of causing genetic defects.

Carcinogenicity
Presumed to have carcinogenic potential for humans

IARC: 2A - Group 2A: Probably carcinogenic to humans (Cobalt)

2A - Group 2A: Probably carcinogenic to humans (Cobalt)

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
May damage fertility.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

RTECS: GF8750000
Kidney injury may occur., Damage to the eyes., Lung irritation, Throat., Rash, Vomiting, Diarrhea
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	LC50 - Danio rerio (zebra fish) - 100.01 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 0.270 mg/l - 70 h (OECD Test Guideline 201)

12.2 Persistence and degradability
The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

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12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)

UN number: 3089 Class: 4.1 Packing group: II
Proper shipping name: Metal powders, flammable, n.o.s.
Reportable Quantity (RQ):
Poison Inhalation Hazard: No

IMDG

UN number: 3089 Class: 4.1 Packing group: II EMS-No: F-G, S-G
Proper shipping name: METAL POWDER, FLAMMABLE, N.O.S.

IATA

UN number: 3089 Class: 4.1 Packing group: II
Proper shipping name: Metal powder, flammable, n.o.s.

SECTION 15: Regulatory information

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

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SARA 311/312 Hazards	:	Fire Hazard Acute Health Hazard Chronic Health Hazard
SARA 313	:	The following components are subject to reporting levels established by SARA Title III, Section 313:

Cobalt	7440-48-4	>= 90 - <= 100 %

US State Regulations

Massachusetts Right To Know

Cobalt	7440-48-4

Pennsylvania Right To Know

Cobalt	7440-48-4

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Cobalt	7440-48-4

Washington Chemicals of High Concern

Cobalt	7440-48-4

California Prop. 65

WARNING: This product can expose you to chemicals including Cobalt, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

TSCA	:	All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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SAFETY DATA SHEET

Version 6.9
Revision Date 09/07/2024
Print Date 09/08/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Copper

Product Number : 349178
Brand : Aldrich
Index-No. : 029-024-00-X
CAS-No. : 7440-50-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

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2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	Cu
Molecular weight	:	63.55 g/mol
CAS-No.	:	7440-50-8
EC-No.	:	231-159-6
Index-No.	:	029-024-00-X

Component	Classification	Concentration
Copper(bulk)		
		<= 100 %

SECTION 4: First aid measures

4.1 Description of first-aid measures

If inhaled
After inhalation: fresh air.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact
After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed
After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

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5.2 Special hazards arising from the substance or mixture
Copper oxides
Not combustible.
Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters
In the event of fire, wear self-contained breathing apparatus.

5.4 Further information
Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Avoid inhalation of dusts. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Dry.

Store under inert gas. Air sensitive.

Storage class
Storage class (TRGS 510): 13: Non Combustible Solids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Copper(bulk)	7440-50-8	TWA	1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		TWA	0.2 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		TWA	1 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		PEL	0.1 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

8.2 Exposure controls

Appropriate engineering controls
Change contaminated clothing. Wash hands after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
Handle with impervious gloves.

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm

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Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Respiratory protection
Recommended Filter type: Filter type P2
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Foil
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/ range: 1,083.4 °C (1,982.1 °F) - lit.
f)	Initial boiling point and boiling range	2,567 °C 4,653 °F - lit.
g)	Flash point	()Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	The product is not flammable.
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	8.94 g/mL at 25 °C (77 °F) - lit.
	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	Not applicable for inorganic substances
p)	Autoignition	No data available

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	temperature	
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
Exothermic reaction with:
Ethylene oxide
Fluorine
hydrogen sulphide
halogen-halogen compounds
alkali oxides
nitrides
Salts of hydrazine
Sulfuric acid
Risk of ignition or formation of inflammable gases or vapours with:
Oxidizing agents
Chlorine
Risk of explosion with:
Acetylene
azides
ammonium compounds
iodates
bromopropine
perchlorates
bromates
picrates
chlorates
Peroxides

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
No data available

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10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Oral: No data available
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

RTECS: GL5325000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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SECTION 12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

Further information
Not classified as dangerous in the meaning of transport regulations.

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SECTION 15: Regulatory information

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Copper(bulk)	7440-50-8

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:

TSCA	:	All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its

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Version: 6.9 Revision Date: 09/07/2024 Print Date: 09/08/2024

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AccuStandard®, Inc.
125 Market St., New Haven, CT 06513 USA
Tel: 203-786-5290 Fax: 203-786-5287

SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 - Product Identifiers

Catalog Name: WC-CN-1X-1

Description: Cyanide Standard

1.2 - Relevant Identified Uses of the Substance or Mixture

Laboratory Chemical Reference Material

1.3 - Supplier Details

Company: AccuStandard, Inc.
125 Market St.
New Haven, CT 06513 USA

Telephone Number: 203-786-5290

Fax: 203-786-5287

Email: edocs@accustandard.com

1.4 - Emergency Telephone Number

Emergency Phone #: AccuStandard, Inc.
1-203-502-7070 (USA)
+001-203-502-7070 (International)

24 hours / 7 days a week

SECTION 2 - HAZARDS IDENTIFICATION

2.1 - GHS Label Elements

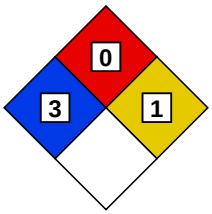

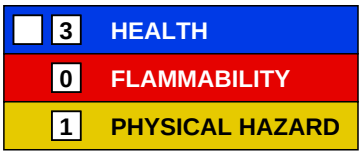

Signal Word: Danger

Hazard Codes:

H302 - Harmful if swallowed. (Acute toxicity, oral, category 4)

H314 - Causes skin burns. (Skin corrosion/irritation, category 1)

H318 - Causes serious eye damage. (Eye damage/irritation, category 1)

H332 - Harmful if inhaled. (Acute toxicity, inhalation, category 4)

Precautionary Codes:

P202 - This product should only by used by persons trained in the safe handling of hazardous chemicals.

P233 - Store in a tightly closed container. (P404)

P262 - Do not get in eyes, on skin or clothing.

P264 - Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

P280 - Protective gloves must be worn to prevent skin contact.

SECTION 2 - HAZARDS IDENTIFICATION *- continued*

2.1 - GHS Label Elements *- continued*

P284 - Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.

P331 - Ingestion: Do NOT induce vomiting. Call a physician or poison control center immediately. Give victim a glass of water a little at a time. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, lower head below waist to prevent fluid from entering the lungs.

P338 - Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

P360 - Skin contact: Immediately flush skin with plenty amounts of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Thoroughly wash (or discard) clothing and shoes before reuse.

2.2 - Other Hazards

2.2.1 - Symptom of Exposure Health/Environment

Corrosive.

May cause stomach cramps and gastro-intestinal disturbances.

May cause burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

2.2.2 - Potential Health Effects

Causes serious eye damage. (Eye damage/irritation, category 1)

Causes skin burns. (Skin corrosion/irritation, category 1)

May be harmful if absorbed through the skin. (Acute toxicity, dermal, category 5)

Extremely destructive to tissue of the mucous membranes and upper respiratory tract.

Harmful if inhaled. (Acute toxicity, inhalation, category 4)

Harmful if swallowed. (Acute toxicity, oral, category 4)

2.2.3 - Routes of Entry

Inhalation, ingestion or skin contact.

2.2.4 - Carcinogenicity

This product is or contains a component that is not listed (ACGIH, IARC, NTP, OSHA) as a cancer causing agent.

SECTION 3 - COMPOSITION / ANALYTES DATA

Description: Cyanide Standard

			ACGIH -TLV (mg/m³)			OSHA -PEL (mg/m³)		
Analyte	CAS #	% Concentration	TWA	STEL	Skin	TWA	STEL	Skin
Potassium cyanide	151-50-8	0.025			X	5		X
Sodium hydroxide	1310-73-2	2.000	(C)2 (C)2			2		
Water	7732-18-5	97.975						

SECTION 4 - FIRST AID MEASURES

4.2 - Eye Contact

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. (P338)

4.3 - Skin Contact

Skin contact: Immediately flush skin with plenty amounts of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Thoroughly wash (or discard) clothing and shoes before reuse. (P360)

4.4 - Inhalation

Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

4.5 - Ingestion

Ingestion: Do NOT induce vomiting. Call a physician or poison control center immediately. Give victim a glass of water a little at a time. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, lower head below waist to prevent fluid from entering the lungs. (P331)

SECTION 5 - FIRE FIGHTING MEASURES

5.1 - Flammable Properties

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Reacts with most metals to form flammable hydrogen gas.

5.2 - Extinguishing Media

Do not use water.

Use dry chemical when fighting fires involving this material.

5.3 - Protection of Firefighters

As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 - Spill Response

Wear a self-contained breathing apparatus and appropriate Personal protection. Prevent contact with skin or eyes. Ventilate area. Stop leak if you can do so without risk. Absorb on sand or vermiculite, take up and containerize for proper disposal. Flush spill area with water. Comply with Federal, State, and local regulations.

SECTION 7 - HANDLING AND STORAGE

Store in a tightly closed container. (P404)

Keep refrigerated.

Avoid metal containers.

Material is hygroscopic.

Avoid inhalation.

Use with adequate ventilation.

Do not get in eyes, on skin or clothing. (P262)

Avoid prolonged or repeated exposure.

This product should only by used by persons trained in the safe handling of hazardous chemicals. (P202)

SECTION 8 - EXPOSURE CONTROLS

8.1 - Engineering Controls/PPE

Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available. (P264)

8.2 - General Hygene Considerations

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.

Material should be handled or transferred in an approved fume hood or with adequate ventilation.

Protective gloves must be worn to prevent skin contact. (P280)

(Chloroprene, natural rubber, nitrile, or equivalent)

Wear safety glasses with side shields (or googles) and a face shield.

Use eye protection tested and approved under the appropriate government standards such as NIOSH (US) or EN 166 (EU).

All recommendations are advisory only and must be evaluated by an industrial hygienist and/or safety officer familiar with the specific situation of anticipated use, such as concentration and amount of the substance in the workplace. Any recommendation should not be construed as offering an approval for any specific use of the product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid

Odor: Practically odorless

Odor Threshold: N/A

pH: 13-14

Melting Point: -4 °C (5% soln)

Boiling Point: 102 °C (5% soln)

Flash Point: N/A

Evaporation Rate (Butyl Acetate=1): N/A

Flammability Class: N/A

Lower Flammability Level: N/A

Upper Flammability Level: N/A

Vapor Pressure: N/A

Vapor Density (Air = 1): >1 g/l

Specific Gravity: 1.05 g/cm3 (5% soln)

Solubility in Water: Soluble

Partition Coefficient: N/A

Autoignition Temperature: N/A

Decomposition Temperature: N/A

Viscosity: N/A

VOC Content: N/A

Percent Volatile: N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Materials to Avoid: Oxidizers
Acids

Hazardous Decomposition: Sodium oxides

Hazardous Polymerization: Will not occur

Condition to Avoid: Prolonged exposure to air

SECTION 11 - TOXICOLOGICAL INFORMATION

Human Health Toxicity

See section 2 for specific toxicological information for the ingredients of this product.

LD50 (Oral): N/A

LD50 (Dermal) : N/A

LC50 (Inhalation): N/A

No specific human health toxicity information is available for this product.

No other information related to the toxicological properties of this product is available at this time.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental Toxicity

By complying with sections 6 and 7 there should be no release to the environment.

LC50 (Fish): N/A

EC50 (Aquatic Invertebrate): N/A

BCF: N/A

No specific environmental toxicity information is available for this product.

No other information related to the ecological properties of this product is available at this time.

SECTION 13 - DISPOSAL CONSIDERATIONS

Recycle or incinerate at any EPA approved facility or dispose in compliance with Federal, State and local regulations. Empty containers must be triple-rinsed prior to disposal.

SECTION 14 - TRANSPORT INFORMATION

Transportation Information (DOT/IATA)

UN Number: UN1824

Class: 8

Packing Group: III

Proper Shipping Name: Sodium hydroxide solution

Poison by Inhalation: No

Marine Pollutant: No

SECTION 15 - REGULATORY INFORMATION

This product does not contain compounds subject to EU Regulation (EC) No 1907/2006 (REACH) on Annex XIV, Annex XVII, and/or Article 59.

SECTION 15 - REGULATORY INFORMATION *- continued*

All components are listed on the TSCA Inventory.

For laboratory, research and development use only. Not for manufacturing or commercial purposes.

In addition to federal and state regulations, local regulations may apply. Check with your local regulatory authorities.

SECTION 16 - OTHER INFORMATION

This document has been designed to meet the requirements of OSHA, ANSI, GHS and CHIPs regulations. Chemicals are classified using the Globally Harmonized System for Classification and Labeling of Chemicals and CLP Regulation (EC) No. 1272/2008.

The statements contained herein are offered for informational purposes only and are based on technical data that we believe to be accurate. The manufacturer will not assume any liability for the accuracy and completeness of this information. Final determination of the suitability of the material is the responsibility of the user. Although certain hazards are described herein, the user should not presume that these are the only hazards that exist. Since conditions and manner of use are outside of the manufacturers control, we make

NO WARRANTY OF MERCHANTABILITY, EXPRESSED OR IMPLIED, AND ASSUME NO LIABILITY RESULTING FROM ITS USE.

Legend : N/A = Not Available ND = Not Determined NR = Not Regulated

Alteration of any information contained herein without written permission from the manufacturer is strictly prohibited.

HMIS/NFPA HAZARD INDEX

0 - Minimal
1 - Slight
2 - Moderate
3 - Serious
4 - Severe

* - Additional Hazard

GHS HAZARD INDEX

Category 1 - Most Severe
Category 5 - Least Severe

**** End of Document ****

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/15/2024 Revision date 01/15/2024

*

1 Identification

· **Product identifier**

· **Trade name: p,p'-DDE**

· **Synonym**
1,1'-(2,2-dichloroethenylidene)bis[4-chloro-benzene]
4,4'-DDE
4,4'-Dichlorodiphenyldichloroethylene
p,p'-Dichlorodiphenyldichloroethylene
NSC 1153

· **Article number:** 24241

· **CAS Number:**
72-55-9

· **EC number:**
200-784-6

· **Application of the substance / the mixture**
This product is for research use - Not for human or veterinary diagnostic or therapeutic use.

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**
Cayman Chemical Co.
1180 E. Ellsworth Rd.
Ann Arbor, MI 48108
USA

· **Information department:** Product safety department

· **Emergency telephone number:**
During normal opening times: +1 (734) 971-3335
US/CANADA: 800-424-9300
Outside US/CANADA: 703-741-5970

2 Hazard(s) identification

· **Classification of the substance or mixture**

GHS06 Skull and crossbones

Acute Toxicity - Oral 3	H301 Toxic if swallowed.

GHS08 Health hazard

Carcinogenicity 2	H351 Suspected of causing cancer.
Specific Target Organ Toxicity - Repeated Exposure 1	H372 Causes damage to organs through prolonged or repeated exposure.

(Contd. on page 2)

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Trade name: p,p'-DDE

(Contd. from page 1)

GHS09 Environment

Aquatic Acute 1	H400 Very toxic to aquatic life.
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lasting effects.

· **Label elements**
· **GHS label elements**
The substance is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**

GHS06 GHS08 GHS09

· **Signal word** Danger
· **Hazard statements**
H301 Toxic if swallowed.
H351 Suspected of causing cancer.
H372 Causes damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.
· **Precautionary statements**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

Health = 1
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 1
Fire = 0
Reactivity = 0

(Contd. on page 3)

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Trade name: p,p'-DDE

(Contd. from page 2)

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Substances**
· **CAS No. Description**
72-55-9 p,p'-DDE
· **Identification number(s)**
· **EC number:** 200-784-6

4 First-aid measures

· **Description of first aid measures**
· **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
In case of irregular breathing or respiratory arrest provide artificial respiration.
· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:** Do not induce vomiting; immediately call for medical help.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
Use fire fighting measures that suit the environment.
A solid water stream may be inefficient.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.
· **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to section 13.

(Contd. on page 4)

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Trade name: p,p'-DDE

(Contd. from page 3)

· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**
· **PAC-1:** 6.5 mg/m³
· **PAC-2:** 72 mg/m³
· **PAC-3:** 170 mg/m³

*
7 Handling and storage

· **Handling:**
· **Precautions for safe handling** Thorough dedusting.
· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:** Store in accordance with information listed on the product insert.
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** None.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see section 7.

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:** Not required.
· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
· **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

(Contd. on page 5)

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Trade name: p,p'-DDE

(Contd. from page 4)

· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

*

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Solid
Color:	Not determined.
· **Odor:**	Characteristic
· **Structural Formula**	C14H8Cl4
· **Molecular Weight**	318 g/mol
· **Odor threshold:**	Not determined.
· **pH-value:**	Not applicable.
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· **Flash point:**	Not applicable.
· **Flammability (solid, gaseous):**	Product is not flammable.
· **Decomposition temperature:**	Not determined.
· **Ignition temperature:**	Not determined.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure:**	Not applicable.
· **Density:**	Not determined.
· **Relative density**	Not determined.
· **Vapor density**	Not applicable.
· **Evaporation rate**	Not applicable.
· **Solubility in / Miscibility with**	
Water:	Not determined.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
SOLUBILITY	Chloroform: Slightly Soluble

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Trade name: p,p'-DDE

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· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** strong bases, strong oxidizing agents
· **Hazardous decomposition products:** carbon oxides, hydrogen chloride

11 Toxicological information

· **RTECS Number** KV9450000
· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

Oral	LD50	880 mg/kg (rat)
	Intraperitoneal LD50	500 µg/kg (mouse)
	Intraperitoneal LD50	159 mg/kg (rat)

· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**

· **Carcinogenic categories**
· **IARC (International Agency for Research on Cancer)** Substance is not listed.
· **NTP (National Toxicology Program)** Substance is not listed.
· **OSHA-Ca (Occupational Safety & Health Administration)** Substance is not listed.

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Ecotoxical effects:**
· **Remark:** Very toxic for fish
· **Additional ecological information:**
· **General notes:**
Water hazard class 3 (Assessment by list): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.

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Very toxic for aquatic organisms

· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**	
· **DOT, IMDG, IATA**	UN2811
· **UN proper shipping name**	
· **DOT**	Toxic solids, organic, n.o.s. (p,p'-DDE)
· **IMDG**	TOXIC SOLID, ORGANIC, N.O.S. (p,p'-DDE)
· **IATA**	Toxic solid, organic, n.o.s. (p,p'-DDE)
· **Transport hazard class(es)**	
· **DOT**	

· **Class**	6.1 Toxic substances
· **Label**	6.1
· **IMDG, IATA**	

· **Class**	6.1 Toxic substances
· **Label**	6.1
· **Packing group**	
· **DOT, IMDG, IATA**	III
· **Environmental hazards:**	Environmentally hazardous substance, solid
· **Special precautions for user**	Warning: Toxic substances
· **Hazard identification number (Kemler code):**	60
· **EMS Number:**	F-A,S-A

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· **Stowage Category**	A
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **DOT**	
· **Quantity limitations**	On passenger aircraft/rail: 100 kg On cargo aircraft only: 200 kg
· **Hazardous substance:**	1 lbs, 0.454 kg
· **IMDG**	
· **Limited quantities (LQ)**	5 kg
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· **IATA**	
· **Remarks:**	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
· **UN "Model Regulation":**	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (P,P'-DDE), 6.1, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
· **Sara**
· **Section 355 (extremely hazardous substances):** Substance is not listed.
· **Section 313 (Specific toxic chemical listings):** Substance is not listed.
· **TSCA (Toxic Substances Control Act):** Substance is not listed.
· **Hazardous Air Pollutants** Substance is not listed.
· **Proposition 65**
· **Chemicals known to cause cancer:** Substance is listed.
· **Chemicals known to cause reproductive toxicity for females:** Substance is not listed.
· **Chemicals known to cause reproductive toxicity for males:** Substance is listed.
· **Chemicals known to cause developmental toxicity:** Substance is listed.

· **Carcinogenic categories**
· **EPA (Environmental Protection Agency)** B2
· **TLV (Threshold Limit Value)** Substance is not listed.
· **NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is not listed.
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of

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these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

· **Department issuing SDS:** Environment protection department.
· **Contact: -**
· **Date of preparation / last revision** 01/15/2024
· **Abbreviations and acronyms:**
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Toxicity - Oral 3: Acute toxicity – Category 3
Carcinogenicity 2: Carcinogenicity – Category 2
Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
· *** Data compared to the previous version altered.**

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/26/2019 Version Number 2 Reviewed on 03/26/2019

*

1 Identification

· **Product identifier**

· **Trade name: p,p'-DDT**

· **Part number:** FRSP-180J
· **CAS Number:**
50-29-3
· **EC number:**
200-024-3
· **Index number:**
602-045-00-7
· **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA

· **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
· **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

· **Classification of the substance or mixture**

GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.
Acute Tox. 3 H311 Toxic in contact with skin.

GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.
STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

· **Label elements**
· **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**

GHS06 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
DDT (common name not adopted by ISO)
· **Hazard statements**
Toxic if swallowed or in contact with skin.

(Contd. on page 2)

(Contd. of page 1)

Suspected of causing cancer.
Causes damage to organs through prolonged or repeated exposure.

· **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Immediately call a poison center/doctor.
Specific treatment (see on this label).
Rinse mouth.
If on skin: Wash with plenty of water.
IF exposed or concerned: Get medical advice/attention.
Call a poison center/doctor if you feel unwell.
Get medical advice/attention if you feel unwell.
Take off immediately all contaminated clothing and wash it before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

Health = 2
Fire = 2
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 2
Fire = 2
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Substances**
· **CAS No. Description**
50-29-3 DDT (common name not adopted by ISO)
· **Identification number(s)**
· **EC number:** 200-024-3
· **Index number:** 602-045-00-7

(Contd. on page 3)

(Contd. of page 2)

4 First-aid measures

· **Description of first aid measures**
· **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
In case of irregular breathing or respiratory arrest provide artificial respiration.
· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:** Do not induce vomiting; immediately call for medical help.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
· **Advice for firefighters**
· **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device.
· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**
3 mg/m³

· **PAC-2:**
34 mg/m³

· **PAC-3:**
210 mg/m³

US

(Contd. on page 4)

(Contd. of page 3)

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
· **Information about protection against explosions and fires:** Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** Keep receptacle tightly sealed.
· **Specific end use(s)** No further relevant information available.

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8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**	
50-29-3 DDT (common name not adopted by ISO)	
PEL	Long-term value: 1 mg/m³ Skin
REL	Long-term value: 0.5 mg/m³ See Pocket Guide App. A
TLV	Long-term value: 1 mg/m³

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.
· **Breathing equipment:**
When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.
Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.
· **Protection of hands:**
Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

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· **Material of gloves**
For normal use: nitrile rubber, 11-13 mil thickness
For direct contact with the chemical: butyl rubber, 12-15 mil thickness
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**
For normal use: nitrile rubber: 1 hour
For direct contact with the chemical: butyl rubber: >4 hours

· **Eye protection:**

Tightly sealed goggles

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Solid
Color:	Not determined.
· **Odor:**	Characteristic
· **Odor threshold:**	Not determined.
· **pH-value:**	Not applicable.
· **Change in condition**	
Melting point/Melting range:	107-110 °C (224.6-230 °F)
Boiling point/Boiling range:	260 °C (500 °F)
· **Flash point:**	72-77 °C (161.6-170.6 °F)
· **Flammability (solid, gaseous):**	Product is not flammable.
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Not determined.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure at 20 °C (68 °F):**	0.0000016 hPa (0 mm Hg)
· **Density at 20 °C (68 °F):**	0.99 g/cm³ (8.26155 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not applicable.
· **Evaporation rate**	Not applicable.
· **Solubility in / Miscibility with**	
Water at 20 °C (68 °F):	0.0000012 g/l
· **Partition coefficient (n-octanol/water):**	Not determined.

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· **Viscosity:**	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal
Solids content:	100.0 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

ATE (Acute Toxicity Estimate)		
Oral	LD50	87 mg/kg (rat)
Dermal	LD50	300 mg/kg (rabbit)

50-29-3 DDT (common name not adopted by ISO)		
Oral	LD50	87 mg/kg (rat)
Dermal	LD50	2,510 mg/kg (rat)
		300 mg/kg (rabbit)

· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**
2A

· **NTP (National Toxicology Program)**
R

(Contd. on page 7)

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· **OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed.

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Water hazard class 3 (Assessment by list): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

*

14 Transport information

· **UN-Number**	
· **DOT, IMDG, IATA**	UN2811
· **UN proper shipping name**	
· **DOT**	Toxic solids, organic, n.o.s. (DDT (common name not adopted by ISO))
· **IMDG, IATA**	TOXIC SOLID, ORGANIC, N.O.S. (DDT (common name not adopted by ISO))
· **Transport hazard class(es)**	
· **DOT, IMDG, IATA**	

· **Class**	6.1 Toxic substances

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· **Label**	6.1
· **Packing group** · **DOT, IMDG, IATA**	 III
· **Environmental hazards:**	Not applicable.
· **Special precautions for user** · **Danger code (Kemler):** · **EMS Number:** · **Stowage Category**	Warning: Toxic substances 60 F-A,S-A A
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **DOT** · **Quantity limitations** · **Hazardous substance:**	 On passenger aircraft/rail: 100 kg On cargo aircraft only: 200 kg 1 lbs, 0.454 kg
· **IMDG** · **Limited quantities (LQ)** · **Excepted quantities (EQ)**	 5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· **UN "Model Regulation":**	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (DDT (COMMON NAME NOT ADOPTED BY ISO)), 6.1, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**

Substance is not listed.

· **Section 313 (Specific toxic chemical listings):**

Substance is not listed.

· **TSCA (Toxic Substances Control Act):**

Substance is listed.

· **TSCA new (21st Century Act): (Substances not listed)**

50-29-3	DDT (common name not adopted by ISO)

· **Proposition 65**

· **Chemicals known to cause cancer:**

Substance is listed.

· **Chemicals known to cause reproductive toxicity for females:**

Substance is listed.

(Contd. on page 9)

(Contd. of page 8)

· **Chemicals known to cause reproductive toxicity for males:**

Substance is listed.

· **Chemicals known to cause developmental toxicity:**

Substance is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

B2

· **TLV (Threshold Limit Value established by ACGIH)**

A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*

16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

· **Date of preparation / last revision** 03/26/2019 / 1

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Tox. 3: Acute toxicity – Category 3
Carc. 2: Carcinogenicity – Category 2
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

· *** Data compared to the previous version altered.**

SAFETY DATA SHEET

Version 5.5
Revision Date 06/02/2016
Print Date 11/17/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	δ-BHC
Product Number	:	48495
Brand	:	Supelco
Index-No.	:	602-042-00-0
CAS-No.	:	319-86-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	+1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Dermal (Category 4), H312
Carcinogenicity (Category 2), H351
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of water.Call a POISON CENTER/doctor if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	δ-1,2,3,4,5,6-Hexachlorocyclohexane
Formula	:	C6H6Cl6
Molecular weight	:	290.8 g/mol
CAS-No.	:	319-86-8
EC-No.	:	206-272-9
Index-No.	:	602-042-00-0

Hazardous components

Component	Classification	Concentration
1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane		
	Acute Tox. 3; Acute Tox. 4; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H301, H312, H351, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.
Hazardous components without workplace control parameters

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available

n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 1,000 mg/kg

Inhalation: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: 2B - Group 2B: Possibly carcinogenic to humans (1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)

NTP: Reasonably anticipated to be a human carcinogen (1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: GV4550000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Central nervous system -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - other fish - 2.83 mg/l - 96.0 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

Bioaccumulation	other fish - 33 d - 0.955 mg/l Bioconcentration factor (BCF): 326

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)
Reportable Quantity (RQ): 1 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)
Marine pollutant:yes
IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane)

Further information
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	319-86-8	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	319-86-8	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	319-86-8	1993-04-24

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
1α,2α,3α,4β,5α,6β)-1,2,3,4,5,6-Hexachlorocyclohexane	319-86-8	2015-08-14

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity

Carc.	Carcinogenicity
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	1
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.5 Revision Date: 06/02/2016 Print Date: 11/17/2016

SAFETY DATA SHEET

Version 6.9
Revision Date 03/04/2024
Print Date 07/13/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Dibenz[*a*,*h*]anthracene

Product Number : 48574
Brand : Supelco
Index-No. : 601-041-00-2
CAS-No. : 53-70-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Carcinogenicity (Category 1B), H350
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 1), H410

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For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word: Danger

Hazard Statements

H350	May cause cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	:	1,2:5,6-Dibenzanthracene
Formula	:	$C_{22}H_{14}$
Molecular weight	:	278.35 g/mol
CAS-No.	:	53-70-3
EC-No.	:	200-181-8
Index-No.	:	601-041-00-2

Component	Classification	Concentration
Dibenz[a,h]anthracene		
	Carc. 1B; Aquatic Acute 1; Aquatic Chronic 1; H350, H400, H410 Concentration limits: >= 0.01 %: Carc. 1B, H350; M-Factor - Aquatic Acute: 1 - Aquatic Chronic: 100	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Prevent fire extinguishing water from contaminating surface water or the ground water system.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class
Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

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Component	CAS-No.	Value	Control parameters	Basis
Dibenz[a,h]anthracene	53-70-3	PEL	0.2 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Dibenz[a,h]anthracene	53-70-3	1-Hydroxypyrene	2.5 µg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			
		3-hydroxybenzo(a)pyrene		Urine	ACGIH - Biological Exposure Indices (BEI)
		End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This

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recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
protective clothing

Respiratory protection
Recommended Filter type: Filter type P3
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 262 - 265 °C (504 - 509 °F) - lit.
f)	Initial boiling point and boiling range	524 °C 975 °F - lit.
g)	Flash point	()Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	No data available
	Relative density	No data available
n)	Water solubility	No data available

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o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
Violent reactions possible with:
strong oxidising agents

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Oral: No data available
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation
No data available

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Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
Presumed to have carcinogenic potential for humans

IARC:	2A - Group 2A: Probably carcinogenic to humans (Dibenz[a,h]anthracene)
NTP:	RAHC - Reasonably anticipated to be a human carcinogen (Dibenz[a,h]anthracene)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

RTECS: HN2625000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Lungs -

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.496 mg/l - 48 h Remarks: (ECOTOX Database)
Toxicity to algae	NOEC - Raphidocelis subcapitata (freshwater green alga) - 0.00033 mg/l - 72 h Remarks: (ECOTOX Database)

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

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12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Dibenz[a,h]anthracene)
Reportable Quantity (RQ): 1 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dibenz[a,h]anthracene)
Marine pollutant : yes
Marine pollutant : no

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Dibenz[a,h]anthracene)

Further information
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

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SECTION 15: Regulatory information

SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Dibenz[a,h]anthracene	53-70-3	1993-02-16

SARA 311/312 Hazards
Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Dibenz[a,h]anthracene	53-70-3	1993-02-16

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Dibenz[a,h]anthracene	53-70-3	1993-02-16

California Prop. 65 Components

	CAS-No.	Revision Date
, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.Dibenz[a,h]anthracene	53-70-3	2007-09-28

SECTION 16: Other information

Further information
The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.
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The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.
Version: 6.9 Revision Date: 03/04/2024 Print Date: 07/13/2024

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

SAFETY DATA SHEET

Version 3.7
Revision Date 11/25/2014
Print Date 01/29/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Dibenzofuran
Product Number	:	236373
Brand	:	Aldrich
CAS-No.	:	132-64-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 4), H302
Acute aquatic toxicity (Category 2), H401
Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Warning

Hazard statement(s)

H302	Harmful if swallowed.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P391	Collect spillage.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	Diphenylene oxide
Formula	:	$C_{12}H_8O$
Molecular weight	:	168.19 g/mol
CAS-No.	:	132-64-9
EC-No.	:	205-071-3

Hazardous components

Component	Classification	Concentration
Dibenzofuran		
	Acute Tox. 4; Aquatic Acute 2; Aquatic Chronic 2; H302, H411	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an

industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: white, beige
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 80 - 82 °C (176 - 180 °F) - lit.
f)	Initial boiling point and boiling range	154 - 155 °C (309 - 311 °F) at 27 hPa (20 mmHg) - lit.
g)	Flash point	130.0 °C (266.0 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 3.77
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
The preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling.

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: HP4430000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	NOEC - Cyprinodon variegatus (sheepshead minnow) - 1 mg/l - 96.0 h
	LC50 - Pimephales promelas (fathead minnow) - 1.05 mg/l - 96.0 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Dibenzofuran)
Reportable Quantity (RQ): 100 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dibenzofuran)
Marine pollutant:yes

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Dibenzofuran)

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date

Dibenzofuran	132-64-9	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Dibenzofuran	132-64-9	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Dibenzofuran	132-64-9	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Dibenzofuran	132-64-9	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H302	Harmful if swallowed.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	
Flammability:	1
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	1
Reactivity Hazard:	0

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.7 Revision Date: 11/25/2014 Print Date: 01/29/2016

SAFETY DATA SHEET

Version 5.5
Revision Date 02/28/2015
Print Date 02/09/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Dieldrin
Product Number	:	291218
Brand	:	Aldrich
Index-No.	:	602-049-00-9
CAS-No.	:	60-57-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 2), H300
Acute toxicity, Dermal (Category 3), H311
Carcinogenicity (Category 2), H351
Specific target organ toxicity - repeated exposure, Oral (Category 1), H372
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H300	Fatal if swallowed.
H311	Toxic in contact with skin.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure if swallowed.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.

P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing.
P281	Use personal protective equipment as required.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P361	Remove/Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : 1,2,3,4,10,10-Hexachloro-1,4,4a,5,6,7,8,8a-octahydro-6,7-epoxy-1,4:5,8-dimethanonaphthalene

Formula : $C_{12}H_8Cl_6O$
Molecular weight : 380.91 g/mol
CAS-No. : 60-57-1
EC-No. : 200-484-5
Index-No. : 602-049-00-9

Hazardous components

Component	Classification	Concentration
Dieldrin		
	Acute Tox. 2; Acute Tox. 3; Carc. 2; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H300, H311, H351, H372, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Dieldrin	60-57-1	TWA	0.100000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Liver damage Reproductive effects Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		

		TWA	0.250000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A Potential for dermal absorption		
		TWA	0.250000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available

d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 143 - 144 °C (289 - 291 °F)
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Mouse - 38.0 mg/kg

LD50 Oral - Dog - 65.0 mg/kg

LD50 Oral - Monkey - 3.0 mg/kg

LD50 Oral - Rabbit - 45.0 mg/kg

LD50 Oral - Pig - 38.0 mg/kg

LD50 Oral - Guinea pig - 49.0 mg/kg

LD50 Oral - Hamster - 60.0 mg/kg

LD50 Oral - Pigeon - 23.7 mg/kg

LD50 Oral - Chicken - 20.0 mg/kg
Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Miosis (pupilliary constriction). Behavioral:Excitement. Behavioral:Food intake (animal).

LD50 Oral - Quail - 10.8 mg/kg
Remarks: Behavioral:Altered sleep time (including change in righting reflex). Behavioral:Somnolence (general depressed activity). Behavioral:Irritability.

LD50 Oral - Duck - 381.0 mg/kg

LD50 Oral - Mammal - 94.0 mg/kg
Remarks: Peripheral Nerve and Sensation:Flaccid paralysis without anesthesia (usually neuromuscular blockage). Behavioral:Tremor. Behavioral:Convulsions or effect on seizure threshold.

LD50 Oral - Bird (wild) - 13.3 mg/kg

LDLO Oral - Rat - 30.0 mg/kg
Remarks: Liver:Other changes.

LDLO Oral - Human - male - 65.0 mg/kg

LDLO Oral - Cat - 500 mg/kg
Remarks: Lungs, Thorax, or Respiration:Chronic pulmonary edema. Liver:Fatty liver degeneration. Kidney, Ureter, Bladder:Other changes.

TDLo Oral - Rat - 140 mg/kg
Remarks: Liver:Other changes. Blood:Other changes. Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels: Other esterases.

TDLo Oral - Rat - 109 mg/kg
Remarks: Liver:Changes in liver weight.

TDLo Oral - Rat - 88 mg/kg
Remarks: Behavioral:Food intake (animal). Nutritional and Gross Metabolic:Weight loss or decreased weight gain. Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels: Phosphatases.

Inhalation: No data available

LD50 Dermal - Rabbit - 250.0 mg/kg

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Dieldrin)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Ingestion - Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

Additional Information
RTECS: IO1750000

Discomfort, Headache, Nausea, Vomiting, Dizziness, Tremors, tonic convulsions, clonic spasms, Coma., respiratory failure, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Blood - Irregularities - Based on Human Evidence
Blood - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	mortality LC50 - Carassius auratus (goldfish) - 1.6 µg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - 79.5 µg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2811 Class: 6.1 Packing group: I
Proper shipping name: Toxic solids, organic, n.o.s. (Dieldrin)
Reportable Quantity (RQ): 1 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 2811 Class: 6.1 Packing group: I EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Dieldrin)
Marine pollutant:yes

IATA
UN number: 2811 Class: 6.1 Packing group: I
Proper shipping name: Toxic solid, organic, n.o.s. (Dieldrin)
IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Dieldrin	60-57-1	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Dieldrin	60-57-1	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Dieldrin	60-57-1	1993-04-24

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Dieldrin	60-57-1	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H300	Fatal if swallowed.
H311	Toxic in contact with skin.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	4
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.5 Revision Date: 02/28/2015 Print Date: 02/09/2016

SAFETY DATA SHEET

1. Identification

Product identifier **DIESEL FUELS**

Other means of identification

SDS number 102-GHS

Synonyms Diesel Fuels All Grades, Diesel Fuel No.2, Fuel Oil No.2, High Sulfur Diesel Fuel, Low Sulfur Diesel Fuel, Ultra Low Sulfur Diesel Fuel, CARB (California Air Resource Board) Diesel Fuel, Off-Road Diesel Fuel, Dyed Diesel Fuel, X Grade Diesel Fuel, X-1 Diesel Fuel, R5 ULSD, B5 ULS D See section 16 for complete information.

Recommended use Motor Fuel
Refinery feedstock.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier Valero Marketing & Supply Company and Affiliates
One Valero Way
San Antonio, TX 78269-6000

General Assistance 210-345-4593

E-Mail CorpHSE@valero.com

Contact Person Industrial Hygienist

Emergency Telephone 24 Hour Emergency 866-565-5220
1-800-424-9300 (CHEMTREC USA)

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 3
Health hazards	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 2
	Carcinogenicity	Category 2
	Reproductive toxicity	Category 2
	Specific target organ toxicity, repeated exposure	Category 2
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, long-term hazard	Category 2

OSHA defined hazards Not classified.

Label elements

Signal word Danger

Hazard statement Flammable liquid and vapor. Harmful if inhaled. Causes skin irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs (blood, thymus, liver) through prolonged or repeated exposure. May be fatal if swallowed and enters airways.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Do not breathe mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area.

Response	If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. If swallowed: Immediately call a poison center/doctor. Take off contaminated clothing and wash before reuse. In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.
Storage	Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Fuels, diesel, no. 2	68476-34-6	85 - 100
Biodiesel - Fatty acid methyl esters	67762-38-3	0 - 10
Fuels, diesel, C9-18-alkane branched and linear	1159170-26-9	0 - 5
n-Nonane	111-84-2	1 - 3
Octane (All isomers)	111-65-9	1 - 2
Hexane (Other isomers)	96-14-0	0 - 1
Naphthalene	91-20-3	0 - 1
n-Heptane	142-82-5	0 - 1
n-Hexane	110-54-3	0 - 1

4. First-aid measures

Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Skin contact	Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Get medical attention if irritation develops or persists. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes. If high pressure injection under the skin occurs, always seek medical attention.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
Ingestion	Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Do not give mouth-to-mouth resuscitation. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately.
Most important symptoms/effects, acute and delayed	Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation. Unconsciousness. Corneal damage. Narcosis. Decrease in motor functions. Behavioral changes. Edema. Liver enlargement. Jaundice. Conjunctivitis. Proteinuria. Defatting of the skin. Rash. The toxicological properties of this product have not been thoroughly investigated. Use appropriate precautions. Hydrogen sulfide, a highly toxic gas, may be present. Signs and symptoms of overexposure to hydrogen sulfide include respiratory and eye irritation, dizziness, nausea, coughing, a sensation of dryness and pain in the nose, and loss of consciousness. Odor does not provide a reliable indicator of the presence of hazardous levels in the atmosphere.
Indication of immediate medical attention and special treatment needed	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed. The toxicological properties of this material have not been fully investigated.
General information	If exposed or concerned: get medical attention/advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

5. Fire-fighting measures

Suitable extinguishing media	Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO_2).

Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical	The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures. Thermal decomposition or combustion may liberate toxic gases or fumes.
Special protective equipment and precautions for firefighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
Fire-fighting equipment/instructions	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do it without risk. In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Water runoff can cause environmental damage. Use compatible foam to minimize vapor generation as needed.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Local authorities should be advised if significant spills cannot be contained. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the SDS for Personal Protective Equipment.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Local authorities should be advised if significant spillages cannot be contained. Stop leak if you can do so without risk. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas. Use non-sparking tools and explosion-proof equipment. Small Spills: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste. Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Do not allow material to contaminate ground water system. Should not be released into the environment. Clean up in accordance with all applicable regulations.
Environmental precautions	If facility or operation has an "oil or hazardous substance contingency plan", activate its procedures. Stay upwind and away from spill. Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not enter or stay in area unless monitoring indicates that it is safe to do so. Isolate hazard area and restrict entry to emergency crew. Flammable. Review Firefighting Measures, Section 5, before proceeding with clean up. Keep all sources of ignition (flames, smoking, flares, etc.) and hot surfaces away from release. Contain spill in smallest possible area. Recover as much product as possible (e.g. by vacuuming). Stop leak if it can be done without risk. Use water spray to disperse vapors. Use compatible foam to minimize vapor generation as needed. Spilled material may be absorbed by an appropriate absorbent, and then handled in accordance with environmental regulations. Prevent spilled material from entering sewers, storm drains, other unauthorized treatment or drainage systems and natural waterways. Contact fire authorities and appropriate federal, state and local agencies. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, contact the National Response Center at 1-800-424-8802. For highway or railways spills, contact Chemtrec at 1-800-424-9300.

7. Handling and storage

Precautions for safe handling	Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Wear personal protective equipment. Avoid breathing mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Avoid prolonged exposure. Use only with adequate ventilation. Wash thoroughly after handling. The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. When using, do not eat, drink or smoke. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities	Flammable liquid storage. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. The pressure in sealed containers can increase under the influence of heat. Keep container tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Naphthalene (CAS 91-20-3)	PEL	50 mg/m3
		10 ppm
n-Heptane (CAS 142-82-5)	PEL	2000 mg/m3
		500 ppm
n-Hexane (CAS 110-54-3)	PEL	1800 mg/m3
		500 ppm
Octane (All isomers) (CAS 111-65-9)	PEL	2350 mg/m3
		500 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Fuels, diesel, no. 2 (CAS 68476-34-6)	TWA	100 mg/m3	Inhalable fraction and vapor.
Hexane (Other isomers) (CAS 96-14-0)	STEL	1000 ppm	
	TWA	500 ppm	
Naphthalene (CAS 91-20-3)	STEL	15 ppm	
	TWA	10 ppm	
n-Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
n-Hexane (CAS 110-54-3)	TWA	50 ppm	
n-Nonane (CAS 111-84-2)	TWA	200 ppm	
Octane (All isomers) (CAS 111-65-9)	TWA	300 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Hexane (Other isomers) (CAS 96-14-0)	Ceiling	1800 mg/m3
		510 ppm
	TWA	350 mg/m3
		100 ppm
Naphthalene (CAS 91-20-3)	STEL	75 mg/m3
		15 ppm
	TWA	50 mg/m3
		10 ppm
n-Heptane (CAS 142-82-5)	Ceiling	1800 mg/m3
		440 ppm
	TWA	350 mg/m3
		85 ppm
n-Hexane (CAS 110-54-3)	TWA	180 mg/m3
		50 ppm
n-Nonane (CAS 111-84-2)	TWA	1050 mg/m3
		200 ppm
Octane (All isomers) (CAS 111-65-9)	Ceiling	1800 mg/m3
		385 ppm
	TWA	350 mg/m3
		75 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
n-Hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedio n, without hydrolysis	Urine	*
	0.4 mg/l	2,5-Hexanedi - on, without hydrolysis		*

* - For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Fuels, diesel, no. 2 (CAS 68476-34-6) Can be absorbed through the skin.
Naphthalene (CAS 91-20-3) Can be absorbed through the skin.
n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

Appropriate engineering controls Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses. If splash potential exists, wear full face shield or chemical goggles.

Skin protection

Hand protection Wear chemical-resistant, impervious gloves. Suitable gloves can be recommended by the glove supplier. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Other Full body suit and boots are recommended when handling large volumes or in emergency situations. Flame retardant protective clothing is recommended.

Respiratory protection Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workplace exposure limits for product or components are exceeded, NIOSH approved equipment should be worn. Proper respirator selection should be determined by adequately trained personnel, based on the contaminants, the degree of potential exposure and published respiratory protection factors. This equipment should be available for nonroutine and emergency use.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Consult supervisor for special handling instructions. Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Wash hands before breaks and immediately after handling the product. Provide eyewash station and safety shower. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance Liquid (may be dyed red).

Physical state Liquid.

Form Liquid.

Color Clear. Straw.

Odor Kerosene (strong).

Odor threshold Not available.

pH Not available.

Melting point/freezing point -60.07 °F (-51.15 °C) Estimated

Initial boiling point and boiling range 325 - 700 °F (162.78 - 371.11 °C)

Flash point > 100.0 °F (> 37.8 °C) Closed Cup

Evaporation rate 0.02

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	0.4 %
Flammability limit - upper (%)	8 %
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	< 1 mm Hg (20°C)
Vapor density	3 (Air = 1)
Relative density	0.82 - 0.87
Relative density temperature	60 °F (15.56 °C)
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	494.96 °F (257.2 °C)
Decomposition temperature	Not available.
Viscosity	2 - 4.5 mm²/s

10. Stability and reactivity

Reactivity	Stable at normal conditions.
Chemical stability	Stable under normal temperature conditions and recommended use.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Heat, flames and sparks. Ignition sources. Contact with incompatible materials. Do not pressurize, cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion	May be fatal if swallowed and enters airways.
Inhalation	Harmful if inhaled. In high concentrations, vapors and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea.
Skin contact	Causes skin irritation.
Eye contact	May cause eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation. Unconsciousness. Corneal damage. Narcosis. Decrease in motor functions. Behavioral changes. Edema. Liver enlargement. Jaundice. Conjunctivitis. Proteinuria. Defatting of the skin. Rash. The toxicological properties of this product have not been thoroughly investigated. Use appropriate precautions.

Information on toxicological effects

Acute toxicity	Harmful if inhaled. Harmful: may cause lung damage if swallowed. The toxicological properties of this material have not been fully investigated.

Components	Species	Test Results
Fuels, diesel, no. 2 (CAS 68476-34-6)		
Acute		
Inhalation		
LC50	Rat	4.1 mg/l, 4 hours

Components	Species	Test Results
Naphthalene (CAS 91-20-3)		
Acute		
Dermal		
LD50	Rabbit	> 2 g/kg
Oral		
LD50	Rat	490 mg/kg
n-Heptane (CAS 142-82-5)		
Acute		
Inhalation		
LC50	Rat	103 mg/l, 4 Hours
n-Hexane (CAS 110-54-3)		
Acute		
Oral		
LD50	Rat	28710 mg/kg
n-Nonane (CAS 111-84-2)		
Acute		
Inhalation		
LC50	Rat	3200 mg/l, 4 Hours
Octane (All isomers) (CAS 111-65-9)		
Acute		
Inhalation		
LC50	Rat	118 mg/l, 4 Hours

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Respiratory sensitization Based on available data, the classification criteria are not met.

Skin sensitization Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Suspected of causing cancer.
International Agency for Research on Cancer (IARC): Whole diesel engine exhaust – IARC Group 1. Exposure may cause lung cancer and also noted a positive association with an increased risk of bladder cancer.
Diesel exhaust has been reported to be an occupational hazard due to NIOSH-reported potential carcinogenic properties.

IARC Monographs. Overall Evaluation of Carcinogenicity

Fuels, diesel, no. 2 (CAS 68476-34-6)	3 Not classifiable as to carcinogenicity to humans.
Naphthalene (CAS 91-20-3)	2B Possibly carcinogenic to humans.

NTP Report on Carcinogens

Naphthalene (CAS 91-20-3)	Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicity Suspected of damaging fertility or the unborn child.
Napthalene interferes with embryo development in experimental animals at dose levels that cause maternal toxicity. In humans, excessive exposure to this agent may cause hemolytic anemia in the mother and fetus.

Specific target organ toxicity - single exposure Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure May cause damage to the following organs through prolonged or repeated exposure: Blood. Liver. Thymus.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Contains organic solvents which in case of overexposure may depress the central nervous system causing dizziness and intoxication. Repeated exposure to naphthalene may cause cataracts, allergic skin rashes, destruction of red blood cells, and anemia, jaundice, kidney and liver damage. Danger of serious damage to health by prolonged exposure. Prolonged or repeated overexposure may cause central nervous system, kidney, liver, and lung damage.

Further information Symptoms may be delayed. Hydrogen sulfide, a highly toxic gas, may be present. Signs and symptoms of overexposure to hydrogen sulfide include respiratory and eye irritation, dizziness, nausea, coughing, a sensation of dryness and pain in the nose, and loss of consciousness. Odor does not provide a reliable indicator of the presence of hazardous levels in the atmosphere. Toxicological properties of this material have not been fully investigated.

12. Ecological information

Ecotoxicity Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Components		Species	Test Results
Fuels, diesel, no. 2 (CAS 68476-34-6)			
Aquatic			
Acute			
Crustacea	EL50	Daphnia magna	68 mg/l, 48 hours
Fish	LL50	Oncorhynchus mykiss	65 mg/l, 96 hours
Naphthalene (CAS 91-20-3)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.09 - 3.4 mg/l, 48 hours
Fish	LC50	Pink salmon (Oncorhynchus gorbuscha)	0.95 - 1.62 mg/l, 96 hours
n-Heptane (CAS 142-82-5)			
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	4924 mg/l, 96 hours
n-Hexane (CAS 110-54-3)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	2.101 - 2.981 mg/l, 96 hours

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

Hexane (Other isomers) (CAS 96-14-0)	3.6
Octane (All isomers) (CAS 111-65-9)	5.18
n-Heptane (CAS 142-82-5)	4.66
n-Hexane (CAS 110-54-3)	3.9
n-Nonane (CAS 111-84-2)	5.46

Mobility in soil Not available.

Other adverse effects Not available.

13. Disposal considerations

Disposal instructions Dispose in accordance with all applicable regulations. This material and its container must be disposed of as hazardous waste. Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.

Hazardous waste code D001: Waste Flammable material with a flash point <140 °F

US RCRA Hazardous Waste U List: Reference

Naphthalene (CAS 91-20-3) U165

Waste from residues / unused products Dispose of in accordance with local regulations.

Contaminated packaging Offer rinsed packaging material to local recycling facilities.

14. Transport information

DOT

UN number UN1202

UN proper shipping name Diesel fuel

Transport hazard class(es)

Class Combustible Liquid

Subsidiary risk -

Packing group III

Environmental hazards	
Marine pollutant	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	144, B1, IB3, T2, TP1
Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	242

IATA

UN number	UN1202
UN proper shipping name	Diesel fuel
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	III
Environmental hazards	Yes
ERG Code	3L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	UN1202
UN proper shipping name	DIESEL FUEL
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	F-E, S-E
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable. However, this product is a liquid and if transported in bulk covered under MARPOL 73/78, Annex I.

15. Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

n-Nonane (CAS 111-84-2)	1.0 % One-Time Export Notification only.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Hexane (Other isomers) (CAS 96-14-0)	LISTED
Naphthalene (CAS 91-20-3)	LISTED
n-Heptane (CAS 142-82-5)	LISTED
n-Hexane (CAS 110-54-3)	LISTED
n-Nonane (CAS 111-84-2)	LISTED
Octane (All isomers) (CAS 111-65-9)	LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical	Yes

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Naphthalene	91-20-3	0 - 1

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Naphthalene (CAS 91-20-3)
n-Hexane (CAS 110-54-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Hexane (Other isomers) (CAS 96-14-0)
Naphthalene (CAS 91-20-3)
n-Heptane (CAS 142-82-5)
n-Hexane (CAS 110-54-3)
n-Nonane (CAS 111-84-2)
Octane (All isomers) (CAS 111-65-9)

US. New Jersey Worker and Community Right-to-Know Act

Fuels, diesel, no. 2 (CAS 68476-34-6)
Naphthalene (CAS 91-20-3)
n-Heptane (CAS 142-82-5)
n-Hexane (CAS 110-54-3)
n-Nonane (CAS 111-84-2)
Octane (All isomers) (CAS 111-65-9)

US. Pennsylvania Worker and Community Right-to-Know Law

Fuels, diesel, no. 2 (CAS 68476-34-6)
Hexane (Other isomers) (CAS 96-14-0)
Naphthalene (CAS 91-20-3)
n-Heptane (CAS 142-82-5)
n-Hexane (CAS 110-54-3)
n-Nonane (CAS 111-84-2)
Octane (All isomers) (CAS 111-65-9)

US. Rhode Island RTK

Naphthalene (CAS 91-20-3)
n-Hexane (CAS 110-54-3)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Benzene (CAS 71-43-2)
Toluene (CAS 108-88-3)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 13-May-2013

Revision date 23-May-2014

Version # 04

Further information HMIS® is a registered trade and service mark of the NPCA.

NFPA Ratings

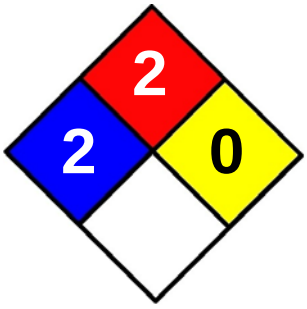

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SAFETY DATA SHEET

Version 5.2
Revision Date 06/27/2014
Print Date 11/17/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Endosulfan II (beta)
Product Number	:	48578
Brand	:	Supelco
CAS-No.	:	33213-65-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	+1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H301	Toxic if swallowed.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P321	Specific treatment (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P391	Collect spillage.
P405	Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : β-Endosulfan

Formula : C9H6Cl6O3S
Molecular Weight : 406.93 g/mol
CAS-No. : 33213-65-9

Hazardous components

Component	Classification	Concentration
β-Endosulfan		
	Acute Tox. 3; Aquatic Acute 1; Aquatic Chronic 1; H301, H410	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Sulphur oxides, Hydrogen chloride gas

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	pH	no data available
e)	Melting point/freezing point	no data available
f)	Initial boiling point and boiling range	no data available
g)	Flash point	no data available
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	no data available
l)	Vapour density	no data available
m)	Relative density	no data available
n)	Water solubility	no data available
o)	Partition coefficient: n-octanol/water	no data available
p)	Auto-ignition temperature	no data available
q)	Decomposition temperature	no data available
r)	Viscosity	no data available
s)	Explosive properties	no data available
t)	Oxidizing properties	no data available

9.2 Other safety information
no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
no data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
no data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - no data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - rat - 240.0 mg/kg

Inhalation: no data available

Dermal: no data available

no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitisation
no data available

Germ cell mutagenicity
no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
no data available

no data available

Specific target organ toxicity - single exposure
no data available

Specific target organ toxicity - repeated exposure
no data available

Aspiration hazard
no data available

Additional Information
RTECS: RB9875200

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Kidney -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - other fish - 0.0066 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - > 0.1 - < 1 mg/l - 48 h

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

Bioaccumulation	other fish - 21 d - 0.0001 mg/l Bioconcentration factor (BCF): 9,908

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solids, organic, n.o.s. (β-Endosulfan)
Reportable Quantity (RQ): 1 lbs
Marine pollutant: Marine pollutant
Poison Inhalation Hazard: No

IMDG

UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (β-Endosulfan)
Marine pollutant: No

IATA

UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solid, organic, n.o.s. (β-Endosulfan)

15. REGULATORY INFORMATION

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
β-Endosulfan	33213-65-9	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
β-Endosulfan	33213-65-9	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
β-Endosulfan	33213-65-9	1993-04-24

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H301	Toxic if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.2 Revision Date: 06/27/2014 Print Date: 11/17/2016

SAFETY DATA SHEET

Version 5.1
Revision Date 06/27/2014
Print Date 04/20/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Endosulfan sulfate
Product Number	:	36676
Brand	:	Sigma
CAS-No.	:	1031-07-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 2), H300
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H300	Fatal if swallowed.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P321	Specific treatment (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P391	Collect spillage.
P405	Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula : $C_9H_6Cl_6O_4S$
Molecular Weight : 422.92 g/mol
CAS-No. : 1031-07-8

Hazardous components

Component	Classification	Concentration
Endosulfan sulfate		
	Acute Tox. 2; Aquatic Acute 1; Aquatic Chronic 1; H300, H410	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Sulphur oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	pH	no data available
e)	Melting point/freezing point	179.0 - 182.0 °C (354.2 - 359.6 °F)
f)	Initial boiling point and boiling range	no data available
g)	Flash point	no data available
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	no data available
l)	Vapour density	no data available
m)	Relative density	no data available
n)	Water solubility	insoluble
o)	Partition coefficient: n-octanol/water	log Pow: 3.66
p)	Auto-ignition temperature	no data available
q)	Decomposition temperature	no data available
r)	Viscosity	no data available
s)	Explosive properties	no data available
t)	Oxidizing properties	no data available

9.2 Other safety information
no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
no data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
no data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - no data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - rat - 18.0 mg/kg

Inhalation: no data available

Dermal: no data available

no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitisation
no data available

Germ cell mutagenicity
no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
no data available

no data available

Specific target organ toxicity - single exposure
no data available

Specific target organ toxicity - repeated exposure
no data available

Aspiration hazard
no data available

Additional Information
RTECS: RB9150000

Cholinesterase inhibitors can cause heavy salivation and secretion in the lungs, lachrymation, blurred vision, involuntary defecation, diarrhea, tremor, ataxia, sweating, hypothermia, lowered heart rate, and/or a fall in blood pressure as a result of their action at cholinergic nerve sites., Headache, Nausea, Vomiting, Dizziness, Drowsiness, Confusion., Weakness, Muscle cramps/spasms., Change in pupil size., Fever, Seizures., Incoordination., Convulsions, Coma.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Carassius auratus (goldfish) - > 0.01 - < 0.1 mg/l - 48.0 h
	LC50 - Leuciscus idus (Golden orfe) - > 0.01 - < 0.1 mg/l - 48.0 h
	LC50 - other fish - > 0.001 - < 0.01 mg/l - 48.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.76 mg/l - 48 h
	LC50 - Daphnia magna (Water flea) - > 0.1 - < 1 mg/l - 48 h

12.2 Persistence and degradability
no data available

12.3 Bioaccumulative potential
no data available

12.4 Mobility in soil
no data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2811 Class: 6.1 Packing group: II
Proper shipping name: Toxic solids, organic, n.o.s. (Endosulfan sulfate)
Reportable Quantity (RQ): 1 lbs
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG
UN number: 2811 Class: 6.1 Packing group: II EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Endosulfan sulfate)
Marine pollutant: No

IATA
UN number: 2811 Class: 6.1 Packing group: II
Proper shipping name: Toxic solid, organic, n.o.s. (Endosulfan sulfate)

15. REGULATORY INFORMATION

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Endosulfan sulfate	1031-07-8	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Endosulfan sulfate	1031-07-8	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Endosulfan sulfate	1031-07-8	1993-04-24

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H300	Fatal if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	3
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	3
Fire Hazard:	0
Reactivity Hazard:	0

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.1 Revision Date: 06/27/2014 Print Date: 04/20/2016

SAFETY DATA SHEET

Version 5.5
Revision Date 08/09/2016
Print Date 07/31/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Endrin
Product Number	:	49032
Brand	:	Supelco
Index-No.	:	602-051-00-X
CAS-No.	:	72-20-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	+1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 1), H300
Acute toxicity, Dermal (Category 2), H310
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H300 + H310	Fatal if swallowed or in contact with skin
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P262	Do not get in eyes, on skin, or on clothing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse

	mouth.
P302 + P350 + P310	IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/ physician.
P361	Remove/Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_{12}H_8Cl_6O$
Molecular weight	:	380.91 g/mol
CAS-No.	:	72-20-8
EC-No.	:	200-775-7
Index-No.	:	602-051-00-X

Hazardous components

Component	Classification	Concentration
Endrin		
	Acute Tox. 1; Acute Tox. 2; Aquatic Acute 1; Aquatic Chronic 1; H300 + H310, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature 2 - 8 °C

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Endrin	72-20-8	TWA	0.100000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Headache Liver damage Not classifiable as a human carcinogen Danger of cutaneous absorption		
		TWA	0.100000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		
		TWA	0.100000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		

		PEL	0.1 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available

f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	insoluble
o)	Partition coefficient: n-octanol/water	log Pow: 5.20
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	226.0 °C (438.8 °F) -
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 3.0 mg/kg

Inhalation: No data available

LD50 Dermal - Rabbit - 60.0 mg/kg

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Central nervous system -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - < 0.001 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia pulex (Water flea) - 0.02 mg/l - 48 h
	Immobilization EC50 - Daphnia magna (Water flea) - 0.0042 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

Bioaccumulation	Pimephales promelas (fathead minnow) - 56 d - 0.63 mg/l
	Bioconcentration factor (BCF): 13,000

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2811 Class: 6.1 Packing group: I
Proper shipping name: Toxic solids, organic, n.o.s. (Endrin)
Reportable Quantity (RQ): 1 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 2811 Class: 6.1 Packing group: I EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Endrin)
Marine pollutant:yes

IATA
UN number: 2811 Class: 6.1 Packing group: I
Proper shipping name: Toxic solid, organic, n.o.s. (Endrin)

15. REGULATORY INFORMATION

SARA 302 Components
The following components are subject to reporting levels established by SARA Title III, Section 302:

	CAS-No.	Revision Date
Endrin	72-20-8	2007-07-01

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Endrin	72-20-8	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Endrin	72-20-8	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Endrin	72-20-8	2007-07-01

California Prop. 65 Components
WARNING: This product contains a chemical known to the CAS-No. Revision Date

State of California to cause birth defects or other reproductive harm.	72-20-8	2007-09-28
Endrin		

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H300	Fatal if swallowed.
H300 + H310	Fatal if swallowed or in contact with skin
H310	Fatal in contact with skin.

HMIS Rating

Health hazard:	4
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	3
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.5 Revision Date: 08/09/2016 Print Date: 07/31/2019

MATHESON
ask. . .The Gas Professionals™

Safety Data Sheet

Material Name: ETHYL BENZENE **SDS ID: MAT08780**

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
ETHYL BENZENE
Synonyms
MTG MSDS 185; EB; PHENYLETHANE; ETHYLBENZENE; ETHYLBENZOL; ALPHA-METHYLTOLUENE; UN 1175; C8H10
Chemical Family
Hydrocarbons, aromatic
Product Use
industrial.
Restrictions on Use
None known.
Details of the supplier of the safety data sheet
MATHESON TRI-GAS, INC.
150 Allen Road, Suite 302
Basking Ridge, NJ 07920
General Information: 1-800-416-2505
Emergency #: 1-800-424-9300 (CHEMTREC)
Outside the US: 703-527-3887 (Call collect)

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.
Flammable Liquids - Category 2
Aspiration Hazard - Category 1
Acute Toxicity - Inhalation - Dust/Mist - Category 4
Acute Toxicity - Inhalation - Vapor - Category 4
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Eye Irritation - Category 2A
Carcinogenicity - Category 2
Reproductive Toxicity - Category 1B
Specific target organ toxicity - Single exposure - Category 2
Specific target organ toxicity - Single exposure - Category 3
Specific Target Organ Toxicity - Repeated Exposure - Category 2 (ears , Ears)
Hazardous to the Aquatic Environment - Acute - Category 2
Hazardous to the Aquatic Environment - Chronic - Category 2
GHS Label Elements
Symbol(s)

Signal Word
Danger
Hazard Statement(s)

Highly flammable liquid and vapor.
Harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.
Suspected of causing cancer.
May damage fertility or the unborn child.
May cause damage to organs. (central nervous system)
May cause respiratory irritation.
May be fatal if swallowed and enters airways.
Toxic to aquatic life.

Precautionary Statement(s)

Prevention

Keep away from heat, sparks, open flame, and hot surfaces - No smoking.
Keep container tightly closed.
Ground/Bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use Personal Protective equipment as required.
Do not breathe vapor or mist.
Use only outdoors or in a well-ventilated area.
Wear protective gloves and eye/face protection.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid release to the environment.

Response

In case of fire, use media appropriate for extinction.
IF exposed or concerned: Get medical advice/attention.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Do NOT induce vomiting.

Storage

Store in a well-ventilated place.
Keep cool.
Keep container tightly closed.
Store locked up.

Disposal

Dispose in accordance with all applicable regulations.

Statement(s) of Unknown Acute Toxicity

Inhalation 0% of the mixture consists of ingredient(s) of unknown acute toxicity.

Statement(s) of Unknown Aquatic Toxicity
0% of the mixture consists of ingredient(s) of unknown acute aquatic toxicity.
0% of the mixture consists of ingredient(s) of unknown chronic aquatic toxicity.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
100-41-4	ETHYL BENZENE	100

Section 4 - FIRST AID MEASURES

Inhalation
If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.
Skin
Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.
Eyes
Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Then get immediate medical attention.
Ingestion
aspiration hazard. Do NOT induce vomiting. When vomiting occurs, keep head lower than hips to help prevent aspiration. Get medical attention immediately. Give artificial respiration if not breathing.
Most Important Symptoms/Effects
Acute
respiratory tract irritation, skin irritation, eye irritation, central nervous system damage, lung damage (from aspiration)
Delayed
cancer, Reproductive Effects
Note to Physicians
For inhalation, consider oxygen.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media
regular dry chemical, carbon dioxide, water spray, regular foam, Large fires: Use water spray, fog or regular foam.
Unsuitable Extinguishing Media
Do not use high-pressure water streams.
Special Hazards Arising from the Chemical
Severe fire hazard. Vapor/air mixtures are explosive above flash point. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Electrostatic discharges may be generated by flow or agitation resulting in ignition or explosion.
Hazardous Combustion Products
Oxides of carbon
Fire Fighting Measures
Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. If this is impossible then take the following precautions: Keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank,

rail car or tank truck: Evacuation radius: 800 meters (1/2 mile). Do not attempt to extinguish fire unless flow of material can be stopped first. Flood with fine water spray. Do not scatter spilled material with high-pressure water streams. Cool containers with water spray until well after the fire is out. Apply water from a protected location or from a safe distance. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Water may be ineffective.

Special Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

Avoid heat, flames, sparks and other sources of ignition. Eliminate all ignition sources if safe to do so. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if possible without personal risk. Prevent entry into waterways, sewers, basements, or confined areas. Reduce vapors with water spray. Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Dike for later disposal. Remove sources of ignition. Use water spray to reduce vapors or divert vapor cloud drift. Keep unnecessary people away, isolate hazard area and deny entry. Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).

Environmental Precautions

Avoid release to the environment.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use Personal Protective equipment as required. Do not breathe vapor or mist. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection. Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product. Avoid release to the environment.

Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place.
Keep cool.
Keep container tightly closed.
Store locked up.
Store and handle in accordance with all current regulations and standards. Store in a well-ventilated area. Keep cool. Keep container tightly closed. Keep locked up. Grounding and bonding required. Keep separated from incompatible substances. Protect from physical damage. Store outside or in a detached building. Store with flammable liquids. Subject to storage regulations: U.S. OSHA 29 CFR 1910.106.

Incompatible Materials

Acids, bases, oxidizing materials, combustible materials

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

ETHYL BENZENE	**100-41-4**

ACGIH:	20 ppm TWA
NIOSH:	100 ppm TWA ; 435 mg/m3 TWA
	125 ppm STEL ; 545 mg/m3 STEL
	800 ppm IDLH (10% LEL)
Europe:	100 ppm TWA ; 442 mg/m3 TWA
	Possibility of significant uptake through the skin
	200 ppm STEL ; 884 mg/m3 STEL
OSHA (US):	100 ppm TWA ; 435 mg/m3 TWA
Mexico:	100 ppm TWA VLE-PPT ; 435 mg/m3 TWA VLE-PPT
	125 ppm STEL [PPT-CT]; 545 mg/m3 STEL [PPT-CT]

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)
ETHYL BENZENE (100-41-4)
0.15 g/g creatinine Medium: urine Time: end of shift Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)

Engineering Controls
Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection
Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection
Wear appropriate chemical resistant clothing.

Respiratory Protection
The following respirators and maximum use concentrations are drawn from NIOSH and/or OSHA. 800 ppm. Any air-purifying half-mask respirator equipped with organic vapor cartridge(s). Any air-purifying full-facepiece respirator (gas mask) with a chin-style, front-mounted or back-mounted organic vapor canister. Any powered, air-purifying respirator with organic vapor cartridge(s). Any supplied-air respirator. Any self-contained breathing apparatus with a full facepiece. Emergency or planned entry into unknown concentrations or IDLH conditions -. Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode. Escape -. Any air-purifying full-facepiece respirator (gas mask) with a chin-style, front-mounted or back-mounted organic vapor canister. Any appropriate escape-type, self-contained breathing apparatus. Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode. Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

Glove Recommendations
Wear appropriate chemical resistant gloves.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid	**Physical State**	liquid
Odor	aromatic odor	**Color**	colorless
Odor Threshold	140 ppm	**pH**	Not available
Melting Point	-95 °C (-139 °F)	**Boiling Point**	136 °C (277 °F)
Boiling Point Range	Not available	**Freezing point**	Not available
Evaporation Rate	<1 (Butyl acetate = 1)	**Flammability (solid, gas)**	Not available
Autoignition Temperature	432 °C (810 °F)	**Flash Point**	15 °C Closed Cup (59 °F)
Lower Explosive Limit	0.8 %	**Decomposition temperature**	Not available
Upper Explosive Limit	6.7 %	**Vapor Pressure**	7.1 mmHg @ 20 °C
Vapor Density (air=1)	3.66	**Specific Gravity (water=1)**	0.867
Water Solubility	0.015 %	**Partition coefficient: n-octanol/water**	154170.05
Viscosity	0.64 cp	**Kinematic viscosity**	Not available
Solubility (Other)	Not available	**Bioconcentration Factor (BCF)**	36.39
Density	Not available	**Henry's Law Constant**	0.00788 atm-m3/mole
KOC	520 (Estimated)	**Physical Form**	liquid
Volatility	100 %	**Molecular Formula**	C-H3-C-H2-C6-H5
Molecular Weight	106.17	**OSHA Flammability Class**	IB

Solvent Solubility
Soluble
alcohol, ether, Benzene, sulfur dioxide, carbon tetrachloride
Insoluble
ammonia

Section 10 - STABILITY AND REACTIVITY

Reactivity
No reactivity hazard is expected.
Chemical Stability
Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions
Will not polymerize.
Conditions to Avoid
Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat. Keep out of water supplies and sewers.
Incompatible Materials
Acids, bases, oxidizing materials, combustible materials
Hazardous decomposition products
Oxides of carbon

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure
Inhalation
irritation (possibly severe), chest pain, difficulty breathing, emotional disturbances, headache, drowsiness, dizziness, loss of coordination, coma, cancer
Skin Contact
irritation
Eye Contact
irritation
Ingestion
nausea, vomiting, stomach pain, aspiration hazard
Acute and Chronic Toxicity
Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:
ETHYL BENZENE (100-41-4)
Oral LD50 Rat 3500 mg/kg
Dermal LD50 Rabbit 15400 mg/kg
Inhalation LC50 Rat 17.4 mg/L 4 h
Product Toxicity Data
Acute Toxicity Estimate

Dermal	> 2000 mg/kg
Inhalation - Vapor	17.4 mg/L
Oral	> 2000 mg/kg

Immediate Effects
respiratory tract irritation, skin irritation, eye irritation, central nervous system damage, lung damage (from aspiration)
Delayed Effects
Reproductive Effects, cancer
Irritation/Corrosivity Data
respiratory tract irritation, skin irritation, eye irritation
Respiratory Sensitization
No data available.
Dermal Sensitization
No data available.
Component Carcinogenicity

ETHYL BENZENE	**100-41-4**
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC:	Monograph 77 [2000] (Group 2B (possibly carcinogenic to humans))
DFG:	Category 4 (no significant contribution to human cancer)
OSHA:	Present

Germ Cell Mutagenicity
No data available.
Tumorigenic Data
No data available
Reproductive Toxicity
Available data characterizes components of this product as reproductive hazards.
Specific Target Organ Toxicity - Single Exposure
central nervous system, Respiratory system
Specific Target Organ Toxicity - Repeated Exposure
No target organs identified.
Aspiration hazard
This material is an aspiration hazard.
Medical Conditions Aggravated by Exposure
kidney disorders, liver disorders, respiratory disorders, skin disorders and allergies
Additional Data
May cross the placenta.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity
Toxic to aquatic life.
Component Analysis - Aquatic Toxicity

ETHYL BENZENE	**100-41-4**
Fish:	LC50 96 h Oncorhynchus mykiss 11 - 18 mg/L [static]; LC50 96 h Oncorhynchus mykiss 4.2 mg/L [semi-static]; LC50 96 h Pimephales promelas 7.55 - 11 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 32 mg/L [static]; LC50 96 h Pimephales promelas 9.1 - 15.6 mg/L [static]; LC50 96 h Poecilia reticulata 9.6 mg/L [static]
Algae:	EC50 72 h Pseudokirchneriella subcapitata 4.6 mg/L IUCLID ; EC50 96 h Pseudokirchneriella subcapitata >438 mg/L IUCLID ; EC50 72 h Pseudokirchneriella subcapitata 2.6 - 11.3 mg/L [static] EPA ; EC50 96 h Pseudokirchneriella subcapitata 1.7 - 7.6 mg/L [static] EPA
Invertebrate:	EC50 48 h Daphnia magna 1.8 - 2.4 mg/L IUCLID

Persistence and Degradability
Not expected to undergo hydrolysis in the environment.
Bioaccumulative Potential
Bioconcentration potential in aquatic organisms is low based on a BCF value of 15.
Mobility

Expected to have moderate mobility in soil.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods
Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262.
Hazardous Waste Number(s): D001.
Component Waste Numbers
The U.S. EPA has not published waste numbers for this product's components.

Section 14 - TRANSPORT INFORMATION

US DOT Information:
Shipping Name: ETHYLBENZENE
Hazard Class: 3
UN/NA #: UN1175
Packing Group: II
Required Label(s): 3
Marine pollutant

IMDG Information:
Shipping Name: ETHYLBENZENE
Hazard Class: 3
UN#: UN1175
Packing Group: II
Required Label(s): 3
Marine pollutant
International Bulk Chemical Code
This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

ETHYL BENZENE	**100-41-4**
IBC Code:	Category Y

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations
This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

ETHYL BENZENE	**100-41-4**
SARA 313:	0.1 % de minimis concentration
CERCLA:	1000 lb final RQ ; 454 kg final RQ

SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories
Flammable; Carcinogenicity; Acute toxicity; Reproductive Toxicity; Skin Corrosion/Irritation; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity; Aspiration Hazard
U.S. State Regulations
The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
ETHYL BENZENE	**100-41-4**	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
WARNING! This product contains a chemical known to the state of California to cause cancer

ETHYL BENZENE	**100-41-4**
Carc:	carcinogen , 6/11/2004

Canada Regulations
Canadian WHMIS Ingredient Disclosure List (IDL)
Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

ETHYL BENZENE	**100-41-4**
	0.1 %

WHMIS Classification
B2
Component Analysis - Inventory
ETHYL BENZENE (100-41-4)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN - NCI (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

Section 16 - OTHER INFORMATION

NFPA Ratings
Health: 2 Fire: 3 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
Summary of Changes
Updated: 05/01/2015
Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC – European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research

on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX – Mexico; NDSL – Non-Domestic Substance List (Canada); NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN NCI (Draft) - Vietnam National Chemicals Inventory (NCI) (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada) .

Other Information

Disclaimer:

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SAFETY DATA SHEET

Helium

Section 1. Identification

GHS product identifier : Helium

Chemical name : Helium

Other means of identification : helium (dot); Helium-4; He; o-Helium; UN 1046

Product use : Synthetic/Analytical chemistry.

Synonym : helium (dot); Helium-4; He; o-Helium; UN 1046

SDS # : 001025

Supplier's details : Airgas USA, LLC and its affiliates
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253

Emergency telephone number (with hours of operation) : 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : GASES UNDER PRESSURE - Compressed gas

GHS label elements

Hazard pictograms :

Signal word : Warning

Hazard statements : Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation.

Precautionary statements

General : Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction.

Prevention : Use and store only outdoors or in a well ventilated place.

Response : Not applicable.

Storage : Protect from sunlight. Protect from sunlight when ambient temperature exceeds 52°C/125°F. Store in a well-ventilated place.

Disposal : Not applicable.

Hazards not otherwise classified : In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.

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Section 3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : Helium

Other means of identification : helium (dot); Helium-4; He; o-Helium; UN 1046

CAS number/other identifiers

CAS number : 7440-59-7

Product code : 001025

Ingredient name	%	CAS number
Helium	100	7440-59-7

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : As this product is a gas, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation : No known significant effects or critical hazards.

Skin contact : Contact with rapidly expanding gas may cause burns or frostbite.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Ingestion : As this product is a gas, refer to the inhalation section.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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Section 4. First aid measures

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

Hazardous thermal decomposition products : No specific data.

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Immediately contact emergency personnel. Stop leak if without risk.

Large spill : Immediately contact emergency personnel. Stop leak if without risk. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Helium	Oxygen Depletion [Asphyxiant]

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

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Section 8. Exposure controls/personal protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Gas. [Compressed gas.]

Color : Colorless.

Molecular weight : 4 g/mole

Molecular formula : He

Boiling/condensation point : -268.9°C (-452°F)

Melting/freezing point : -272.2°C (-458°F)

Critical temperature : -267.9°C (-450.2°F)

Odor : Odorless.

Odor threshold : Not available.

pH : Not available.

Flash point : [Product does not sustain combustion.]

Burning time : Not applicable.

Burning rate : Not applicable.

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : Not available.

Vapor density : 0.14 (Air = 1) Liquid Density@BP: 7.8 lb/ft3 (125 kg/m3)

Specific Volume (ft ^{3}/lb) : 96.1538

Gas Density (lb/ft ^{3}) : 0.0104

Relative density : Not applicable.

Solubility : Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/water : 0.28

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

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Section 9. Physical and chemical properties

SADT : Not available.

Viscosity : Not applicable.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

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Section 11. Toxicological information

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation : No known significant effects or critical hazards.

Skin contact : Contact with rapidly expanding gas may cause burns or frostbite.

Ingestion : As this product is a gas, refer to the inhalation section.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

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Section 12. Ecological information

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Helium	0.28	-	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1046	UN1046	UN1046	UN1046	UN1046
UN proper shipping name	HELIUM, COMPRESSED	HELIUM, COMPRESSED	HELIUM, COMPRESSED	HELIUM, COMPRESSED	HELIUM, COMPRESSED
Transport hazard class(es)	2.2	2.2	2.2	2.2	2.2
Packing group	-	-	-	-	-
Environment	No.	No.	No.	No.	No.
Additional information	**Limited quantity** Yes. **Packaging instruction** **Passenger aircraft** Quantity limitation: 75 kg **Cargo aircraft** Quantity limitation: 150 kg	**Explosive Limit and Limited Quantity Index** 0.125 **Passenger Carrying Road or Rail Index** 75	-	-	**Passenger and Cargo Aircraft**Quantity limitation: 75 kg **Cargo Aircraft Only** Quantity limitation: 150 kg

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

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Section 14. Transport information

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

United States inventory (TSCA 8b): This material is listed or exempted.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Sudden release of pressure

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Helium	100	No.	Yes.	No.	No.	No.

State regulations

Massachusetts : This material is listed.

New York : This material is not listed.

New Jersey : This material is listed.

Pennsylvania : This material is listed.

Canada inventory : This material is listed or exempted.

International regulations

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Section 15. Regulatory information

International lists : **Australia inventory (AICS)**: This material is listed or exempted.
China inventory (IECSC): This material is listed or exempted.
Japan inventory: Not determined.
Korea inventory: This material is listed or exempted.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted.
Philippines inventory (PICCS): This material is listed or exempted.
Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : Not listed

Canada

WHMIS (Canada) : Class A: Compressed gas.

CEPA Toxic substances: This material is not listed.
Canadian ARET: This material is not listed.
Canadian NPRI: This material is not listed.
Alberta Designated Substances: This material is not listed.
Ontario Designated Substances: This material is not listed.
Quebec Designated Substances: This material is not listed.

Section 16. Other information

Canada Label requirements : Class A: Compressed gas.

Hazardous Material Information System (U.S.A.)

Health	0
Flammability	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

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Section 16. Other information

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of printing : 10/15/2014.

Date of issue/Date of revision : 10/15/2014.

Date of previous issue : 10/2/2014.

Version : 0.02

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United NationsACGIH – American Conference of Governmental Industrial Hygienists
AIHA – American Industrial Hygiene Association
CAS – Chemical Abstract Services
CEPA – Canadian Environmental Protection Act
CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act (EPA)
CFR – United States Code of Federal Regulations
CPR – Controlled Products Regulations
DSL – Domestic Substances List
GWP – Global Warming Potential
IARC – International Agency for Research on Cancer
ICAO – International Civil Aviation Organisation
Inh – Inhalation
LC – Lethal concentration
LD – Lethal dosage
NDSL – Non-Domestic Substances List
NIOSH – National Institute for Occupational Safety and Health
TDG – Canadian Transportation of Dangerous Goods Act and Regulations
TLV – Threshold Limit Value
TSCA – Toxic Substances Control Act
WEEL – Workplace Environmental Exposure Level
WHMIS – Canadian Workplace Hazardous Material Information System

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Powered by IHS

MATERIAL SAFETY DATA SHEET
HORIBA INSTRUMENTS, INC.
17671 Armstrong Avenue, Irvine, CA 92614
(949) 250-4811

REVISION DATE MAY 2003

SECTION I: MATERIAL IDENTIFICATION

IDENTITY: Potassium hydrogen phthalate
P/N 350623, 527033, 696138-1, 9003001600, 100-4

CHEMICAL FORMULA: $C_6H_4(COOK)(COOH)$ ~1% in water

GENERIC NAME: pH 4 Buffer Solution

CHEMICAL FAMILY: Salt solution

OTHER DESIGNATION: pH 4 Standard Solution, Autocal solution, 100-4

IN CASE OF EMERGENCY CONTACT YOUR REGIONAL PLANT MANAGER

SECTION II: HAZARDOUS INGREDIENTS

Irritant: Eyes, nose and throat, skin.

This product contains the following toxic chemical(s) subject to Section 313 Title III reporting requirements (40 CFR Part 372): NONE

SECTION III: PHYSICAL DATA

MELTING POINT (*): 295-300°C

SPECIFIC GRAVITY (H_2O = 1): 1.636

VAPOR PRESSURE: N/A

PERCENT, VOLATILE BY VOLUME (%): None

SOLUBILITY IN WATER v/v @°C: 1.2% (cool water) CAS #: 877-24-7

APPEARANCE AND ODOR: Colorless liquid

SECTION IV:PHYSICAL DATA

FLASH POINT AND METHOD: N/A

FLAMMABLE LIMITS: None

EXTINGUISHING MEDIA: Determine based on surrounding combustibles.

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

SECTION V: REACTIVITY DATA

STABILITY: Stable at normal temperature

INCOMPATIBILITY (MATERIALS TO AVOID): None

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: None

SECTION VI: HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Wash eyes with clean water flowing for 10-15 minutes. Call doctor immediately.
Skin: Take off contaminated clothing and wash skin with water.
Inhaled: Move the patient into clear air. Keep patient warm and stable. Loosen clothing and use artificial respiration if necessary. Call doctor immediately.
Swallowed: Give patient plenty of warm water/milk. Induce vomiting. Call doctor immediately. If patient is unconscious, do not give water/milk, but call doctor immediately.

SECTION VII: SPILL OR LEAK PROCEDURES

Highway or railway spills call Chemtrec (800) 424-9300

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Collect as much material as possible. The place of leakage should be washed with plenty of water.

WASTE DISPOSAL METHOD:
Dispose as chemical waste.

SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): Not normally required.

VENTILATION: Not normally required.

OTHER PROTECTIVE EQUIPMENT: Optional - eye mask, gloves and long-sleeve working clothes.

SECTION IX:SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
After working, wash hands thoroughly.

OTHER PRECAUTIONS: None.

Safety Data Sheet

20ppm Hydrogen Sulfide, 60ppm Carbon Monoxide, 58% LEL Pentane Simulant, 15% VOL Oxygen; balance Nitrogen

Ideal Calibrations, LLC
2750 Oakwood Blvd.
Melvindale, MI 48122
(734) 956-0539
http://www.idealcalibrations.com/

Section 1: Product and Company Identification

Ideal Calibrations, LLC
2750 Oakwood Blvd.
Melvindale, MI 48122
(734) 956-0539
http://www.idealcalibrations.com/

Product Code: 20ppm Hydrogen Sulfide, 60ppm Carbon Monoxide, 58% LEL Pentane Simulant, 15% VOL Oxygen; balance Nitrogen
Part Number: 0219

Synonyms:
Recommended Use: Calibration of gas detection devices
Usage Restrictions: Do not use if current date is past expiration date on cylinder

Section 2: Hazards Identification

Warning

Hazard Classification:
Gases Under Pressure

Hazard Statements:
Contains gas under pressure; may explode if heated
Toxic to aquatic life

Precautionary Statements

Storage:
Protect from sunlight.
Store in well-ventilated place.

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Section 3: Composition/Information on Ingredients

	CAS #	Concentration
Hydrogen Sulfide	7783-06-4	0.002
Carbon Monoxide	630-08-0	0.006
Methane	74-82-8	1.45
Oxygen	7782-44-7	15
Nitrogen	7727-37-9	83.542

	Chemical Substance	Chemical Family	Trade Names
Hydrogen Sulfide	HYDROGEN SULFIDE	Inorganic gases	HYDROGEN SULFIDE (H2S); DIHYDROGEN MONOSULFIDE; DIHYDROGEN SULFIDE; HYDROSULFURIC ACID; SULFUR DIHYDRIDE; SULFURETED HYDROGEN; SULFUR HYDRIDE; STINK DAMP; SEWER GAS; RCRA U135; UN 1053; H2S
Carbon Monoxide	CARBON MONOXIDE	Inorganic gases	CARBON OXIDE; CARBON OXIDE (CO); UN 1016; CO
Methane	METHANE, COMPRESSED GAS	Hydrocarbons, Aliphatic, Saturated	FIRE DAMP; MARSH GAS; METHYL HYDRIDE; NATURAL GAS; METHANE; UN 1971; R50; CH4
Oxygen	OXYGEN, COMPRESSED GAS	Inorganic gases	OXYGEN; DIOXYGEN; MOLECULAR OXYGEN; OXYGEN MOLECULE; PURE OXYGEN; UN 1072; O2
Nitrogen	NITROGEN, COMPRESSED GAS	Inorganic gases	DIATOMIC NITROGEN; DINITROGEN; NITROGEN; NITROGEN-14; NITROGEN GAS; UN 1066; N2

Section 4: First Aid Measures

	Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
Hydrogen Sulfide	Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.	Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.
Carbon Monoxide	Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.	Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.
Methane	Wash exposed skin with soap and water.	Flush eyes with plenty of water.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.
Oxygen	None expected	None expected	Not likely route of exposure	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.	None

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	Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
Nitrogen	Wash exposed skin with soap and water.	Flush eyes with plenty of water.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.

Section 5: Fire Fighting Measures

	Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters
Hydrogen Sulfide	Let burn unless leak can be stopped immediately. Large fires: Use regular foam or flood with fine water spray.	Sulfur oxides	▪ Any self-contained breathing apparatus with a full facepiece. ▪ Protective material types: butyl rubber, polyvinyl chloride (PVC), neoprene
Carbon Monoxide	Carbon dioxide, regular dry chemical Large fires: Use regular foam or flood with fine water spray.	Carbon dioxide	▪ Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. ▪ Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.
Methane	Carbon dioxide, regular dry chemical Large fires: Use regular foam or flood with fine water spray.	Carbon monoxide, carbon dioxide, water	▪ Respiratory protection may be needed for frequent or heavy exposure. Any self-contained breathing apparatus with a full facepiece. ▪ Respiratory protection may be needed for frequent or heavy exposure. Any self-contained breathing apparatus with a full facepiece.
Oxygen	Non-flammable. Use extinguishing agent appropriate for the material which is burning. Use water in large quantities for fires involving oxygen.	Oxides of burning material	▪ Respiratory protection may be needed for frequent or heavy exposure. ▪ None
Nitrogen	Non-flammable. Use suitable extinguishing media for surrounding fire. Cylinders may rupture or explode if exposed to heat.	Non-flammable	▪ Respiratory protection may be needed for frequent or heavy exposure.

Section 6: Accidental Release Measures

	Personal Precautions	Environmental Precautions	Methods for Containment
Hydrogen Sulfide	Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas. Ventilate closed spaces before entering. Evacuation radius: 150 feet. For tank, rail car or tank truck: 800 meters (1/2 mile). Do not touch spilled material.	Avoid heat, flames, sparks and other sources of ignition.	Stop leak if possible without personal risk. Remove sources of ignition. Reduce vapors with water spray. Do not get water directly on material.
Carbon Monoxide	Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.	Avoid heat, flames, sparks and other sources of ignition. Keep out of water supplies and sewers.	Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition.
Methane	Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.	Avoid heat, flames, sparks and other sources of ignition.	Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition.
Oxygen	Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.	Avoid contact with combustible materials.	Stop leak if possible without personal risk.
Nitrogen	Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.	No significant effects from contamination expected.	Stop leak if possible without personal risk.

	Methods for Cleanup	Other Information

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	Methods for Cleanup	Other Information
Hydrogen Sulfide	Collect runoff for disposal as potential hazardous waste. Dike for later disposal. Absorb with sand or other non-combustible material. Add an alkaline material (lime, crushed limestone, sodium bicarbonate, or soda ash).	Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).
Carbon Monoxide	Stop leak, evacuate area. Wear protective equipment.	Subject to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).
Methane	Not available	Not available
Oxygen	Stop leak and ventilate	None
Nitrogen	N/A	N/A

Section 7: Handling and Storage

	Handling	Storage
Hydrogen Sulfide	Store and handle in accordance with all current regulations and standards. Protect from physical damage. Store outside or in a detached building. Store in a cool, dry place. Store in a well-ventilated area. Avoid contact with light. Grounding and bonding required. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101. Notify State Emergency Response Commission for storage or use at amounts greater than or equal to the TPQ (U.S. EPA SARA Section 302). SARA Section 303 requires facilities storing a material with a TPQ to participate in local emergency response planning (U.S. EPA 40 CFR 355.30). Keep separated from incompatible substances.	Subject to handling regulations: U.S. OSHA 29 CFR 1910.119.
Carbon Monoxide	Keep separated from incompatible substances.	Store and handle in accordance with all current regulations and standards. Grounding and bonding required. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.
Methane	Store and handle in accordance with all current regulations and standards. Grounding and bonding required. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.	Keep separated from incompatible substances.
Oxygen	Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.	Keep separated from incompatible substances.
Nitrogen	Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.	Keep separated from incompatible substances.

Section 8: Exposure Controls/Personal Protection

	Exposure Guidelines
Hydrogen Sulfide	HYDROGEN SULFIDE: 20 ppm OSHA ceiling 50 ppm OSHA peak 10 minute(s) (once if no other measurable exposure occurs) 10 ppm (14 mg/m3) OSHA TWA (vacated by 58 FR 35338, June 30, 1993) 15 ppm (21 mg/m3) OSHA STEL (vacated by 58 FR 35338, June 30, 1993) 10 ppm ACGIH TWA 15 ppm ACGIH STEL 10 ppm (15 mg/m3) NIOSH recommended ceiling 10 minute(s) TLV-TWA: 1ppm Upper respiratory irritation (ACGIH)
Carbon Monoxide	CARBON MONOXIDE: 50 ppm (55 mg/m3) OSHA TWA 35 ppm (40 mg/m3) OSHA TWA (vacated by 58 FR 35338, June 30, 1993) 200 ppm (229 mg/m3) OSHA ceiling (vacated by 58 FR 35338, June 30, 1993) 25 ppm ACGIH TWA 35 ppm (40 mg/m3) NIOSH recommended TWA 10 hour(s) 200 ppm (229 mg/m3) NIOSH recommended ceiling
Methane	METHANE, COMPRESSED GAS: ALIPHATIC HYDROCARBON GASES ALKANE (C1-C4): 1000 ppm ACGIH TWA METHANE: No occupational exposure limits established. ALIPHATIC HYDROCARBON GASES ALKANE (C1-C4): 1000 ppm ACGIH TWA
Oxygen	OXYGEN, COMPRESSED GAS: No occupational exposure limits established.
Nitrogen	NITROGEN, COMPRESSED GAS: NITROGEN: ACGIH (simple asphyxiant)

Engineering Controls

Handle only in fully enclosed systems.

	Eye Protection	Skin Protection	Respiratory Protection
Hydrogen Sulfide	Wear splash resistant safety goggles with a face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.	Wear appropriate chemical resistant clothing.	Any self-contained breathing apparatus with a full facepiece.
Carbon Monoxide	Eye protection not required, but recommended.	Protective clothing is not required.	Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.

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	Eye Protection	Skin Protection	Respiratory Protection
Methane	Eye protection not required, but recommended.	Protective clothing is not required.	Respiratory protection may be needed for frequent or heavy exposure. Any self-contained breathing apparatus with a full facepiece.
Oxygen	Eye protection not required, but recommended.	Protective clothing is not required.	Respiratory protection may be needed for frequent or heavy exposure.
Nitrogen	Eye protection not required, but recommended.	Protective clothing is not required.	Respiratory protection may be needed for frequent or heavy exposure.

General Hygiene considerations

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

Section 9: Physical and Chemical Properties

	Physical State	Appearance	Color	Change in Appearance	Physical Form	Odor	Taste
Hydrogen Sulfide	Gas	Colorless	Colorless	N/A	Gas	Rotten egg odor	N/A
Carbon Monoxide	Gas	Colorless	Colorless	N/A	Gas	Odorless	Tasteless
Methane	Gas	Colorless	Colorless	N/A	Gas	Odorless	Tasteless
Oxygen	Gas	Clear	Colorless	N/A	Gas	Odorless	Tasteless
Nitrogen	Gas	Clear	Colorless	N/A	Gas	Odorless	Tasteless

	Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits
Hydrogen Sulfide	Flammable	Not available	Not available	500 F (260 C)	45.5%	3.9%
Carbon Monoxide	Flammable	Not available	1479.11 (log = 3.17) (estimated from water solubility)	1128-1202 F (609-650 C)	0.74	12.0-12.5%
Methane	-369 F (-223 C)	Not available	724.44 (log = 2.87) (estimated from water solubility)	999 F (537 C)	15%	5%
Oxygen	Not flammable	Not available	Not available	Nonflammable	Nonflammable	Nonflammable
Nitrogen	Not flammable	Not available	Not available	Nonflammable	Nonflammable	Nonflammable

	Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	pH	Odor Threshold	Evaporation Rate	Viscosity
Hydrogen Sulfide	-78 to -77 F (-61 to -60.3 C)	-123 F (-86 C)	15200 mmHg @ 25 C	1.2 (Air=1)	1.192	2.58-2.9% @ 20 C	4.5-<7 (saturated solution)	0.13 ppm	Not applicable	0.0128 cP @ 25 C
Carbon Monoxide	-312.7 F (-191.5 C)	-326 F (-199 C)	760 mmHg @ -191 C gas; cannot be liquefied at room temperature	0.968 (Air=1)	Not applicable	2.3% @ 20 C	Not applicable	Not available	Not applicable	0.01657 cP @ 0 C
Methane	-260 F (-162 C)	-297 F (-183 C)	760 mmHg @ -161 C	0.555 (Air=1)	Not applicable	3.5% @ 17 C	Not applicable	Not available	Not applicable	0.01118 cP @ 27 C
Oxygen	-297 F (-183 C)	-360 F (-218 C)	760 mmHg @ -183 C	1.1 (Air=1)	Not applicable	3.2% @ 25 C	Not applicable	Not available	Not applicable	0.02075 cP @ 25 C
Nitrogen	-321 F (-196 C)	-346 F (-210 C)	760 mmHg @ -196 C	0.967 (Air=1)	Not applicable	1.6% @ 20 C	Not applicable	Not available	Not applicable	0.01787 cP @ 27 C

	Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility

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	Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
Hydrogen Sulfide	34.08	H2-S	1.539 g/L @ 0 C	Not available	Not available	Not applicable	Soluble: Carbon disulfide, alcohol, ether, glycerol, gasolines, kerosene, crude oil, alkali solutions
Carbon Monoxide	28.01	C-O	1.250 g/L @ 0 C	Not available	100%	Not applicable	Soluble: Alcohol, benzene, acetic acid, ethyl acetate, chloroform, cuprous chloride solutions
Methane	16.04	C-H4	0.717 g/L @ 0 C	Not available	Not applicable	Not applicable	Soluble: Alcohol, ether, benzene, organic solvents
Oxygen	31.9988	O2	1.309 g/L @ 25 C	Not available	Not applicable	Not applicable	Soluble: Alcohol
Nitrogen	28.0134	N2	1.2506 g/L	Not available	100%	1	Soluble: Liquid ammonia

Section 10: Stability and Reactivity

	Stability	Conditions to Avoid	Incompatible Materials
Hydrogen Sulfide	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Combustible materials, metals, oxidizing materials, halogens, metal oxides, metal salts, bases, rust, oxidants, oxygen, copper powder, acetaldehyde, silver fulminate
Carbon Monoxide	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Oxidizing materials, halogens, metal oxides, metals, combustible materials, lithium
Methane	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Halogens, oxidizing materials, combustible materials
Oxygen	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Combustible materials, halo carbons, metals, bases, reducing agents, amines, metal salts, oxidizing materials, alkaline earth and alkali metals
Nitrogen	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Metals, oxidizing materials

	Hazardous Decomposition Products	Possibility of Hazardous Reactions
Hydrogen Sulfide	Oxides of sulfur	Will not polymerize.
Carbon Monoxide	Oxides of carbon	Will not polymerize.
Methane	Oxides of carbon	Will not polymerize.
Oxygen	Miscellaneous decomposition products	Will not polymerize.
Nitrogen	Oxides of nitrogen	Will not polymerize.

Section 11: Toxicology Information

Acute Effects

	Oral LD50	Dermal LD50	Inhalation
Hydrogen Sulfide	444 ppm inhalation-rat LC50	Irritation 0.000125 ppm/5 hour(s) eyes-human	Irritation, lack of sense of smell, sensitivity to light, nausea, vomiting, difficulty breathing, headache, drowsiness, dizziness, disorientation, tremors, visual disturbances, suffocation, lung congestion, internal bleeding, heart damage, nerve damage, brain damage, coma, death
Carbon Monoxide	LC50 Inhalation Gas. Rat 1807 ppm 4 hours	Not available	Changes in body temperature, changes in blood pressure, nausea, vomiting, chest pain, difficulty breathing, irregular heartbeat, headache, drowsiness, dizziness, disorientation, hallucinations, pain in extremities, tremors, loss of coordination, hearing loss, visual disturbances, eye damage, suffocation, blood disorders, convulsions, coma
Methane	Not available	Not available	Nausea, vomiting, difficulty breathing, irregular heartbeat, headache, drowsiness, fatigue, dizziness, disorientation, mood swings, tingling sensation, loss of coordination, suffocation, convulsions, unconsciousness, coma
Oxygen	Not established	Not established	Irritation, changes in body temperature, nausea, difficulty breathing, irregular heartbeat, dizziness, disorientation, hallucinations, mood swings, pain in extremities, tremors, lung congestion, convulsions
Nitrogen	Not available	Not available	Nausea, vomiting, difficulty breathing, headache, drowsiness, dizziness, tingling sensation, loss of coordination, convulsions, coma

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	Eye Irritation	Skin Irritation	Sensitization
Hydrogen Sulfide	Irritation, sensitivity to light, visual disturbances	Irritation liquid: frostbite	Acute toxicity, Category 2, inhalation; H330: Fatal if inhaled. Specific Target Organ Toxicity (single exposure), Category 3; H335: May cause respiratory irritation. Hazardous to the aquatic environment, Acute Category 1; H400: Very toxic to aquatic life
Carbon Monoxide	No information on significant adverse effects	No information on significant adverse effects	Acute toxicity, Category 3, inhalation; H331: Toxic if inhaled. Reproductive toxicity, Category 1A; H360D: May damage the unborn child. Specific Target Organ Toxicity (repeated exposure), Category 1; H372: Causes damage to organs through prolonged or repeated exposure.
Methane	No information on significant adverse effects	No information on significant adverse effects	Difficulty breathing
Oxygen	No information on significant adverse effects	No information on significant adverse effects	No significant target effects reported.
Nitrogen	Contact with rapidly expanding gas may cause burns or frostbite	No information on significant adverse effects	Difficulty breathing

Chronic Effects

	Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects
Hydrogen Sulfide	Not available	Not available	Available.	No data
Carbon Monoxide	Not available	Available.	Available.	No data
Methane	Not available	Not available	Not available	No data
Oxygen	Not known.	Available.	Available.	No data
Nitrogen	Not hazardous	Not available	Not available	No data

Section 12: Ecological Information

Fate and Transport

	Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Hydrogen Sulfide	Fish toxicity: Acute LC50 7 ug/L Fresh water Fish - Fathead minnow - Pimephales promelas - FRY 96 hours; 14.9 ug/L 96 hour(s) LC50 (Mortality) Fathead minnow (Pimeph Invertibrate toxicity: 9730 ug/L 1.5 hour(s) (Mortality) Mediterranean mussel (Mytilus galloprovincialis) Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Highly toxic to aquatic life.	Not available	Not available
Carbon Monoxide	Fish toxicity: 75000 ug/L 1 day(s) LC100 (Mortality) Orangespotted sunfish (Lepomis humilis) Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Relatively non-persistent in the environment. Highly volatile from water.	Not available	Not expected to leach through the soil or the sediment.
Methane	Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Relatively non-persistent in the environment. Moderately volatile from water.	Accumulates very little in the bodies of living organisms.	Not expected to leach through the soil or the sediment.
Oxygen	Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Not available	Low bioaccumulation	Not available
Nitrogen	Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Not available	Not available	Not available

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Section 13: Disposal Considerations

Hydrogen Sulfide	Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): U135.
Carbon Monoxide	Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.
Methane	Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.
Oxygen	Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.
Nitrogen	Dispose in accordance with all applicable regulations.

Section 14: Transportation Information

U.S. DOT 49 CFR 172.101

DOT Information For This Mixture

Shipping Name	Compressed gas, n.o.s. (Nitrogen, Oxygen)
UN Number	UN1956
Hazard Class	2.2
Hazard Information	Non-Flammable Gas

Individual Component Information

	Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Labeling Requirements	Passenger Aircraft or Railcar Quantity Limitations	Cargo Aircraft Only Quantity Limitations	Additional Shipping Description
Hydrogen Sulfide	Hydrogen sulfide	UN1053	2.3	Not applicable	2.3; 2.1	Forbidden	Forbidden	Toxic-Inhalation Hazard Zone B
Carbon Monoxide	Carbon monoxide, compressed	UN1016	2.3	Not applicable	2.3; 2.1	Forbidden	25 kg	Toxic-Inhalation Hazard Zone D
Methane	Methane, compressed	UN1971	2.1	Not applicable	2.1	Forbidden	150 kg	N/A
Oxygen	Oxygen, compressed	UN1072	2.2	Not available	2.2; 5.1	75 kg or L	150 kg	N/A
Nitrogen	Nitrogen, compressed	UN1066	2.2	Not applicable	2.2	75 kg or L	150 kg	N/A

Canadian Transportation of Dangerous Goods

	Shipping Name	UN Number	Class	Packing Group / Risk Group
Hydrogen Sulfide	HYDROGEN SULFIDE; or HYDROGEN SULPHIDE	UN1053	2.3; 2.1	Not applicable
Carbon Monoxide	Carbon monoxide, compressed	UN1016	2.3; 2.1	Not applicable
Methane	Methane, compressed	UN1971	2.1	Not applicable
Oxygen	Oxygen, compressed	UN1072	2.2; 5.1	Not applicable
Nitrogen	Nitrogen, compressed	UN1066	2.2	Not applicable

Section 15: Regulatory Information

U.S. Regulations

	CERCLA Sections	SARA 355.30	SARA 355.40
Hydrogen Sulfide	100 LBS RQ	500 LBS TPQ	100 LBS RQ
Carbon Monoxide	Not regulated.	Not regulated.	Not regulated.
Methane	Not regulated.	Not regulated.	Not regulated.
Oxygen	Not regulated.	Not regulated.	Not regulated.

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Nitrogen	Not regulated.	Not regulated.	Not regulated.

SARA 370.21

	Acute	Chronic	Fire	Reactive	Sudden Release
Hydrogen Sulfide	Yes	No	Yes	No	Yes
Carbon Monoxide	Yes	No	Yes	No	Yes
Methane	Yes	No	Yes	No	Yes
Oxygen	No	No	Yes	No	Yes
Nitrogen	Yes	No	No	No	Yes

SARA 372.65

Hydrogen Sulfide	HYDROGEN SULFIDE: Administrative stay issued Aug. 22, 1994
Carbon Monoxide	Not regulated.
Methane	Not regulated.
Oxygen	Not regulated.
Nitrogen	Not regulated.

OSHA Process Safety

Hydrogen Sulfide	1500 LBS TQ
Carbon Monoxide	Not regulated.
Methane	Not regulated.
Oxygen	Not regulated.
Nitrogen	Not regulated.

State Regulations

	CA Proposition 65
Hydrogen Sulfide	Not regulated.
Carbon Monoxide	WARNING: This product can expose you to chemicals including Carbon Monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
Methane	Not regulated.
Oxygen	Not regulated.
Nitrogen	Not regulated.

Canadian Regulations

	WHMIS Classification
Hydrogen Sulfide	A, B1, D1A, D2B.
Carbon Monoxide	A, B1, D1A, D2A.
Methane	A, B1
Oxygen	A,C
Nitrogen	A

National Inventory Status

	US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDSL)
Hydrogen Sulfide	Listed on inventory.	Not listed.	Listed on inventory.
Carbon Monoxide	Listed on inventory.	Not listed.	Listed on inventory.
Methane	Listed on inventory.	Not listed.	Listed on inventory.
Oxygen	Listed on inventory.	Not listed.	Not determined.
Nitrogen	Listed on inventory.	Not listed.	Listed on inventory.

Section 16: Other Information

	NFPA Rating
Hydrogen Sulfide	HEALTH=4 FIRE=4 REACTIVITY=0
Carbon Monoxide	HEALTH=2 FIRE=4 REACTIVITY=0
Methane	HEALTH=0 FIRE=4 REACTIVITY=0
Oxygen	HEALTH=0 FIRE=0 REACTIVITY=0 SPECIAL=OX
Nitrogen	HEALTH=0 FIRE=0 REACTIVITY=0 SPECIAL=SA

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

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Safety Data Sheet

20ppm Hydrogen Sulfide, 60ppm Carbon Monoxide, 58% LEL Pentane Simulant, 15.0% VOL Oxygen, 2.5% VOL Carbon Dioxide; balance Nitrogen

Ideal Calibrations, LLC
2750 Oakwood Blvd.
Melvindale, MI 48122
(734) 956-0539
http://www.idealcalibrations.com/

Section 1: Product and Company Identification

Ideal Calibrations, LLC
2750 Oakwood Blvd.
Melvindale, MI 48122
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Product Code: 20ppm Hydrogen Sulfide, 60ppm Carbon Monoxide, 58% LEL Pentane Simulant, 15.0% VOL Oxygen, 2.5% VOL Carbon Dioxide; balance Nitrogen
Part Number: 0522

Synonyms:
Recommended Use: Calibration of gas detection devices
Usage Restrictions: Do not use if current date is past expiration date on cylinder

Section 2: Hazards Identification

Warning

Hazard Classification:
Gases Under Pressure

Hazard Statements:
Contains gas under pressure; may explode if heated
Toxic to aquatic life

Precautionary Statements

Storage:
Protect from sunlight.
Store in well-ventilated place.

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Section 3: Composition/Information on Ingredients

	CAS #	Concentration
Hydrogen Sulfide	7783-06-4	0.002
Carbon Monoxide	630-08-0	0.006
Methane	74-82-8	1.45
Oxygen	7782-44-7	15
Carbon Dioxide	124-38-9	2.5
Nitrogen	7727-37-9	81.042

	Chemical Substance	Chemical Family	Trade Names
Hydrogen Sulfide	HYDROGEN SULFIDE	Inorganic gases	HYDROGEN SULFIDE (H2S); DIHYDROGEN MONOSULFIDE; DIHYDROGEN SULFIDE; HYDROSULFURIC ACID; SULFUR DIHYDRIDE; SULFURETED HYDROGEN; SULFUR HYDRIDE; STINK DAMP; SEWER GAS; RCRA U135; UN 1053; H2S
Carbon Monoxide	CARBON MONOXIDE	Inorganic gases	CARBON OXIDE; CARBON OXIDE (CO); UN 1016; CO
Methane	METHANE, COMPRESSED GAS	Hydrocarbons, Aliphatic, Saturated	FIRE DAMP; MARSH GAS; METHYL HYDRIDE; NATURAL GAS; METHANE; UN 1971; R50; CH4
Oxygen	OXYGEN, COMPRESSED GAS	Inorganic gases	OXYGEN; DIOXYGEN; MOLECULAR OXYGEN; OXYGEN MOLECULE; PURE OXYGEN; UN 1072; O2
Carbon Dioxide	CARBON DIOXIDE, GAS	Inorganic gases	CARBONIC ACID GAS; CARBONIC ANHYDRIDE; CARBON DIOXIDE; CARBON OXIDE; UN 1013; CO2
Nitrogen	NITROGEN, COMPRESSED GAS	Inorganic gases	DIATOMIC NITROGEN; DINITROGEN; NITROGEN; NITROGEN-14; NITROGEN GAS; UN 1066; N2

Section 4: First Aid Measures

	Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
Hydrogen Sulfide	Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.	Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.
Carbon Monoxide	Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.	Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.
Methane	Wash exposed skin with soap and water.	Flush eyes with plenty of water.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.

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	Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
Oxygen	None expected	None expected	Not likely route of exposure	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.	None
Carbon Dioxide	If frostbite or freezing occur, immediately flush with plenty of lukewarm water (105-115 F; 41-46 C). DO NOT USE HOT WATER. If warm water is not available, gently wrap affected parts in blankets. Get immediate medical attention.	Contact with liquid: Immediately flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.	Do not induce vomiting.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.
Nitrogen	Wash exposed skin with soap and water.	Flush eyes with plenty of water.	If a large amount is swallowed, get medical attention.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen.

Section 5: Fire Fighting Measures

	Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters
Hydrogen Sulfide	Let burn unless leak can be stopped immediately. Large fires: Use regular foam or flood with fine water spray.	Sulfur oxides	▪ Any self-contained breathing apparatus with a full facepiece. ▪ Protective material types: butyl rubber, polyvinyl chloride (PVC), neoprene
Carbon Monoxide	Carbon dioxide, regular dry chemical Large fires: Use regular foam or flood with fine water spray.	Carbon dioxide	▪ Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. ▪ Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.
Methane	Carbon dioxide, regular dry chemical Large fires: Use regular foam or flood with fine water spray.	Carbon monoxide, carbon dioxide, water	▪ Respiratory protection may be needed for frequent or heavy exposure. Any self-contained breathing apparatus with a full facepiece. ▪ Respiratory protection may be needed for frequent or heavy exposure. Any self-contained breathing apparatus with a full facepiece.
Oxygen	Non-flammable. Use extinguishing agent appropriate for the material which is burning. Use water in large quantities for fires involving oxygen.	Oxides of burning material	▪ Respiratory protection may be needed for frequent or heavy exposure. ▪ None
Carbon Dioxide	Non-flammable	Non-flammable	▪ Any appropriate escape-type, self-contained breathing apparatus. ▪ Non-flammable
Nitrogen	Non-flammable. Use suitable extinguishing media for surrounding fire. Cylinders may rupture or explode if exposed to heat.	Non-flammable	▪ Respiratory protection may be needed for frequent or heavy exposure.

Section 6: Accidental Release Measures

	Personal Precautions	Environmental Precautions	Methods for Containment

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	Personal Precautions	Environmental Precautions	Methods for Containment
Hydrogen Sulfide	Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas. Ventilate closed spaces before entering. Evacuation radius: 150 feet. For tank, rail car or tank truck: 800 meters (1/2 mile). Do not touch spilled material.	Avoid heat, flames, sparks and other sources of ignition.	Stop leak if possible without personal risk. Remove sources of ignition. Reduce vapors with water spray. Do not get water directly on material.
Carbon Monoxide	Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.	Avoid heat, flames, sparks and other sources of ignition. Keep out of water supplies and sewers.	Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition.
Methane	Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.	Avoid heat, flames, sparks and other sources of ignition.	Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition.
Oxygen	Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.	Avoid contact with combustible materials.	Stop leak if possible without personal risk.
Carbon Dioxide	Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering. Do not touch spilled material.	Subject to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). Keep out of water supplies and sewers.	Stop leak if possible without personal risk.
Nitrogen	Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.	No significant effects from contamination expected.	Stop leak if possible without personal risk.

	Methods for Cleanup	Other Information
Hydrogen Sulfide	Collect runoff for disposal as potential hazardous waste. Dike for later disposal. Absorb with sand or other non-combustible material. Add an alkaline material (lime, crushed limestone, sodium bicarbonate, or soda ash).	Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).
Carbon Monoxide	Stop leak, evacuate area. Wear protective equipment.	Subject to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).
Methane	Not available	Not available
Oxygen	Stop leak and ventilate	None
Carbon Dioxide	Stop leak, evacuate, remove source of ignition.	None
Nitrogen	N/A	N/A

Section 7: Handling and Storage

	Handling	Storage
Hydrogen Sulfide	Store and handle in accordance with all current regulations and standards. Protect from physical damage. Store outside or in a detached building. Store in a cool, dry place. Store in a well-ventilated area. Avoid contact with light. Grounding and bonding required. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101. Notify State Emergency Response Commission for storage or use at amounts greater than or equal to the TPQ (U.S. EPA SARA Section 302). SARA Section 303 requires facilities storing a material with a TPQ to participate in local emergency response planning (U.S. EPA 40 CFR 355.30). Keep separated from incompatible substances.	Subject to handling regulations: U.S. OSHA 29 CFR 1910.119.
Carbon Monoxide	Keep separated from incompatible substances.	Store and handle in accordance with all current regulations and standards. Grounding and bonding required. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.
Methane	Store and handle in accordance with all current regulations and standards. Grounding and bonding required. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.	Keep separated from incompatible substances.
Oxygen	Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.	Keep separated from incompatible substances.
Carbon Dioxide	Subject to storage regulations: U.S. OSHA 29 CFR 1910.101. Keep separated from incompatible substances.	Store and handle in accordance with all current regulations and standards
Nitrogen	Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.	Keep separated from incompatible substances.

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Section 8: Exposure Controls/Personal Protection

	Exposure Guidelines
Hydrogen Sulfide	HYDROGEN SULFIDE: 20 ppm OSHA ceiling 50 ppm OSHA peak 10 minute(s) (once if no other measurable exposure occurs) 10 ppm (14 mg/m3) OSHA TWA (vacated by 58 FR 35338, June 30, 1993) 15 ppm (21 mg/m3) OSHA STEL (vacated by 58 FR 35338, June 30, 1993) 10 ppm ACGIH TWA 15 ppm ACGIH STEL 10 ppm (15 mg/m3) NIOSH recommended ceiling 10 minute(s) TLV-TWA: 1ppm Upper respiratory irritation (ACGIH)
Carbon Monoxide	CARBON MONOXIDE: 50 ppm (55 mg/m3) OSHA TWA 35 ppm (40 mg/m3) OSHA TWA (vacated by 58 FR 35338, June 30, 1993) 200 ppm (229 mg/m3) OSHA ceiling (vacated by 58 FR 35338, June 30, 1993) 25 ppm ACGIH TWA 35 ppm (40 mg/m3) NIOSH recommended TWA 10 hour(s) 200 ppm (229 mg/m3) NIOSH recommended ceiling
Methane	METHANE, COMPRESSED GAS: ALIPHATIC HYDROCARBON GASES ALKANE (C1-C4): 1000 ppm ACGIH TWA METHANE: No occupational exposure limits established. ALIPHATIC HYDROCARBON GASES ALKANE (C1-C4): 1000 ppm ACGIH TWA
Oxygen	OXYGEN, COMPRESSED GAS: No occupational exposure limits established.
Carbon Dioxide	CARBON DIOXIDE, GAS: CARBON DIOXIDE: 5000 ppm (9000 mg/m3) OSHA TWA 10000 ppm (18000 mg/m3) OSHA TWA (vacated by 58 FR 35338, June 30, 1993) 30000 ppm (54000 mg/m3) OSHA STEL (vacated by 58 FR 35338, June 30, 1993) 5000 ppm ACGIH TWA 30000 ppm ACGIH STEL 5000 ppm (9000 mg/m3) NIOSH recommended TWA 10 hour(s) 30000 ppm (54000 mg/m3) NIOSH recommended STEL
Nitrogen	NITROGEN, COMPRESSED GAS: NITROGEN: ACGIH (simple asphyxiant)

Engineering Controls

Handle only in fully enclosed systems.

	Eye Protection	Skin Protection	Respiratory Protection
Hydrogen Sulfide	Wear splash resistant safety goggles with a face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.	Wear appropriate chemical resistant clothing.	Any self-contained breathing apparatus with a full facepiece.
Carbon Monoxide	Eye protection not required, but recommended.	Protective clothing is not required.	Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.
Methane	Eye protection not required, but recommended.	Protective clothing is not required.	Respiratory protection may be needed for frequent or heavy exposure. Any self-contained breathing apparatus with a full facepiece.
Oxygen	Eye protection not required, but recommended.	Protective clothing is not required.	Respiratory protection may be needed for frequent or heavy exposure.
Carbon Dioxide	For the gas: Eye protection not required, but recommended. For the liquid: Wear splash resistant safety goggles. Contact lenses should not be worn. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.	For the gas: Protective clothing is not required. For the liquid: Wear appropriate protective, cold insulating clothing.	Any appropriate escape-type, self-contained breathing apparatus.
Nitrogen	Eye protection not required, but recommended.	Protective clothing is not required.	Respiratory protection may be needed for frequent or heavy exposure.

General Hygiene considerations

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

Section 9: Physical and Chemical Properties

	Physical State	Appearance	Color	Change in Appearance	Physical Form	Odor	Taste
Hydrogen Sulfide	Gas	Colorless	Colorless	N/A	Gas	Rotten egg odor	N/A
Carbon Monoxide	Gas	Colorless	Colorless	N/A	Gas	Odorless	Tasteless
Methane	Gas	Colorless	Colorless	N/A	Gas	Odorless	Tasteless
Oxygen	Gas	Clear	Colorless	N/A	Gas	Odorless	Tasteless
Carbon Dioxide	Gas	Colorless	Colorless	N/A	Gas	Odorless	Acid taste
Nitrogen	Gas	Clear	Colorless	N/A	Gas	Odorless	Tasteless

	Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits

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	Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits
Hydrogen Sulfide	Flammable	Not available	Not available	500 F (260 C)	45.5%	3.9%
Carbon Monoxide	Flammable	Not available	1479.11 (log = 3.17) (estimated from water solubility)	1128-1202 F (609-650 C)	0.74	12.0-12.5%
Methane	-369 F (-223 C)	Not available	724.44 (log = 2.87) (estimated from water solubility)	999 F (537 C)	15%	5%
Oxygen	Not flammable	Not available	Not available	Nonflammable	Nonflammable	Nonflammable
Carbon Dioxide	Not flammable	Not available	N/A	Nonflammable	Nonflammable	Nonflammable
Nitrogen	Not flammable	Not available	Not available	Nonflammable	Nonflammable	Nonflammable

	Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	pH	Odor Threshold	Evaporation Rate	Viscosity
Hydrogen Sulfide	-78 to -77 F (-61 to -60.3 C)	-123 F (-86 C)	15200 mmHg @ 25 C	1.2 (Air=1)	1.192	2.58-2.9% @ 20 C	4.5-<7 (saturated solution)	0.13 ppm	Not applicable	0.0128 cP @ 25 C
Carbon Monoxide	-312.7 F (-191.5 C)	-326 F (-199 C)	760 mmHg @ -191 C gas; cannot be liquefied at room temperature	0.968 (Air=1)	Not applicable	2.3% @ 20 C	Not applicable	Not available	Not applicable	0.01657 cP @ 0 C
Methane	-260 F (-162 C)	-297 F (-183 C)	760 mmHg @ -161 C	0.555 (Air=1)	Not applicable	3.5% @ 17 C	Not applicable	Not available	Not applicable	0.01118 cP @ 27 C
Oxygen	-297 F (-183 C)	-360 F (-218 C)	760 mmHg @ -183 C	1.1 (Air=1)	Not applicable	3.2% @ 25 C	Not applicable	Not available	Not applicable	0.02075 cP @ 25 C
Carbon Dioxide	Not available	-71 F (-57 C) @ 4000 mmHg	43700 mmHg @ 21 C	1.5 (Air=1)	1.522 @ 21 C	Soluble	3.7 (saturated aqueous solution) @ 101.3 kPa (carbonic acid)	Not available	Not applicable	0.01657 cP @ 0 C
Nitrogen	-321 F (-196 C)	-346 F (-210 C)	760 mmHg @ -196 C	0.967 (Air=1)	Not applicable	1.6% @ 20 C	Not applicable	Not available	Not applicable	0.01787 cP @ 27 C

	Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
Hydrogen Sulfide	34.08	H2-S	1.539 g/L @ 0 C	Not available	Not available	Not applicable	Soluble: Carbon disulfide, alcohol, ether, glycerol, gasolines, kerosene, crude oil, alkali solutions
Carbon Monoxide	28.01	C-O	1.250 g/L @ 0 C	Not available	100%	Not applicable	Soluble: Alcohol, benzene, acetic acid, ethyl acetate, chloroform, cuprous chloride solutions
Methane	16.04	C-H4	0.717 g/L @ 0 C	Not available	Not applicable	Not applicable	Soluble: Alcohol, ether, benzene, organic solvents
Oxygen	31.9988	O2	1.309 g/L @ 25 C	Not available	Not applicable	Not applicable	Soluble: Alcohol
Carbon Dioxide	44.01	C-O2	0.114	Not available	Not applicable	Not applicable	Soluble: Alcohol, acetone, hydrocarbons, organic solvents
Nitrogen	28.0134	N2	1.2506 g/L	Not available	100%	1	Soluble: Liquid ammonia

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Section 10: Stability and Reactivity

	Stability	Conditions to Avoid	Incompatible Materials
Hydrogen Sulfide	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Combustible materials, metals, oxidizing materials, halogens, metal oxides, metal salts, bases, rust, oxidants, oxygen, copper powder, acetaldehyde, silver fulminate
Carbon Monoxide	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Oxidizing materials, halogens, metal oxides, metals, combustible materials, lithium
Methane	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Halogens, oxidizing materials, combustible materials
Oxygen	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Combustible materials, halo carbons, metals, bases, reducing agents, amines, metal salts, oxidizing materials, alkaline earth and alkali metals
Carbon Dioxide	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Combustible materials, oxidizing materials, metal salts, reducing agents, metal carbide, metals, bases
Nitrogen	Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Metals, oxidizing materials

	Hazardous Decomposition Products	Possibility of Hazardous Reactions
Hydrogen Sulfide	Oxides of sulfur	Will not polymerize.
Carbon Monoxide	Oxides of carbon	Will not polymerize.
Methane	Oxides of carbon	Will not polymerize.
Oxygen	Miscellaneous decomposition products	Will not polymerize.
Carbon Dioxide	Carbon monoxide	Will not polymerize.
Nitrogen	Oxides of nitrogen	Will not polymerize.

Section 11: Toxicology Information

Acute Effects

	Oral LD50	Dermal LD50	Inhalation
Hydrogen Sulfide	444 ppm inhalation-rat LC50	Irritation 0.000125 ppm/5 hour(s) eyes-human	Irritation, lack of sense of smell, sensitivity to light, nausea, vomiting, difficulty breathing, headache, drowsiness, dizziness, disorientation, tremors, visual disturbances, suffocation, lung congestion, internal bleeding, heart damage, nerve damage, brain damage, coma, death
Carbon Monoxide	LC50 Inhalation Gas. Rat 1807 ppm 4 hours	Not available	Changes in body temperature, changes in blood pressure, nausea, vomiting, chest pain, difficulty breathing, irregular heartbeat, headache, drowsiness, dizziness, disorientation, hallucinations, pain in extremities, tremors, loss of coordination, hearing loss, visual disturbances, eye damage, suffocation, blood disorders, convulsions, coma
Methane	Not available	Not available	Nausea, vomiting, difficulty breathing, irregular heartbeat, headache, drowsiness, fatigue, dizziness, disorientation, mood swings, tingling sensation, loss of coordination, suffocation, convulsions, unconsciousness, coma
Oxygen	Not established	Not established	Irritation, changes in body temperature, nausea, difficulty breathing, irregular heartbeat, dizziness, disorientation, hallucinations, mood swings, pain in extremities, tremors, lung congestion, convulsions
Carbon Dioxide	Not established	Not established	Ringing in the ears, nausea, irregular heartbeat, headache, drowsiness, dizziness, tingling sensation, visual disturbances, suffocation, convulsions, coma
Nitrogen	Not available	Not available	Nausea, vomiting, difficulty breathing, headache, drowsiness, dizziness, tingling sensation, loss of coordination, convulsions, coma

	Eye Irritation	Skin Irritation	Sensitization
Hydrogen Sulfide	Irritation, sensitivity to light, visual disturbances	Irritation liquid: frostbite	Acute toxicity, Category 2, inhalation; H330: Fatal if inhaled. Specific Target Organ Toxicity (single exposure), Category 3; H335: May cause respiratory irritation. Hazardous to the aquatic environment, Acute Category 1; H400: Very toxic to aquatic life
Carbon Monoxide	No information on significant adverse effects	No information on significant adverse effects	Acute toxicity, Category 3, inhalation; H331: Toxic if inhaled. Reproductive toxicity, Category 1A; H360D: May damage the unborn child. Specific Target Organ Toxicity (repeated exposure), Category 1; H372: Causes damage to organs through prolonged or repeated exposure.

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	Eye Irritation	Skin Irritation	Sensitization
Methane	No information on significant adverse effects	No information on significant adverse effects	Difficulty breathing
Oxygen	No information on significant adverse effects	No information on significant adverse effects	No significant target effects reported.
Carbon Dioxide	Irritation, frostbite, blurred vision	Liquid: blisters, frostbite	Difficulty breathing
Nitrogen	Contact with rapidly expanding gas may cause burns or frostbite	No information on significant adverse effects	Difficulty breathing

Chronic Effects

	Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects
Hydrogen Sulfide	Not available	Not available	Available.	No data
Carbon Monoxide	Not available	Available.	Available.	No data
Methane	Not available	Not available	Not available	No data
Oxygen	Not known.	Available.	Available.	No data
Carbon Dioxide	Not available	Not established	Available.	No data
Nitrogen	Not hazardous	Not available	Not available	No data

Section 12: Ecological Information

Fate and Transport

	Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Hydrogen Sulfide	Fish toxicity: Acute LC50 7 ug/L Fresh water Fish - Fathead minnow - Pimephales promelas - FRY 96 hours; 14.9 ug/L 96 hour(s) LC50 (Mortality) Fathead minnow (Pimeph Invertibrate toxicity: 9730 ug/L 1.5 hour(s) (Mortality) Mediterranean mussel (Mytilus galloprovincialis) Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Highly toxic to aquatic life.	Not available	Not available
Carbon Monoxide	Fish toxicity: 75000 ug/L 1 day(s) LC100 (Mortality) Orangespotted sunfish (Lepomis humilis) Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Relatively non-persistent in the environment. Highly volatile from water.	Not available	Not expected to leach through the soil or the sediment.
Methane	Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Relatively non-persistent in the environment. Moderately volatile from water.	Accumulates very little in the bodies of living organisms.	Not expected to leach through the soil or the sediment.
Oxygen	Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Not available	Low bioaccumulation	Not available
Carbon Dioxide	Fish toxicity: 150000 ug/L 48 day(s) (Mortality) Brown trout (Salmo trutta) Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Relatively non-persistent in the environment. Moderately volatile from water.	Accumulates very little in the bodies of living organisms.	Leaches through the soil
Nitrogen	Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Not available	Not available	Not available

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Section 13: Disposal Considerations

Hydrogen Sulfide	Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): U135.
Carbon Monoxide	Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.
Methane	Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.
Oxygen	Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.
Carbon Dioxide	Dispose in accordance with all applicable regulations.
Nitrogen	Dispose in accordance with all applicable regulations.

Section 14: Transportation Information

U.S. DOT 49 CFR 172.101

DOT Information For This Mixture

Shipping Name	Compressed gas, n.o.s. (Nitrogen, Oxygen)
UN Number	UN1956
Hazard Class	2.2
Hazard Information	Non-Flammable Gas

Individual Component Information

	Proper Shipping Name	**ID Number**	**Hazard Class or Division**	**Packing Group**	**Labeling Requirements**	**Passenger Aircraft or Railcar Quantity Limitations**	**Cargo Aircraft Only Quantity Limitations**	**Additional Shipping Description**
Hydrogen Sulfide	Hydrogen sulfide	UN1053	2.3	Not applicable	2.3; 2.1	Forbidden	Forbidden	Toxic-Inhalation Hazard Zone B
Carbon Monoxide	Carbon monoxide, compressed	UN1016	2.3	Not applicable	2.3; 2.1	Forbidden	25 kg	Toxic-Inhalation Hazard Zone D
Methane	Methane, compressed	UN1971	2.1	Not applicable	2.1	Forbidden	150 kg	N/A
Oxygen	Oxygen, compressed	UN1072	2.2	Not available	2.2; 5.1	75 kg or L	150 kg	N/A
Carbon Dioxide	Carbon dioxide	UN1013	2.2	Not applicable	2.2	75 kg or L	150kg	None
Nitrogen	Nitrogen, compressed	UN1066	2.2	Not applicable	2.2	75 kg or L	150 kg	N/A

Canadian Transportation of Dangerous Goods

	Shipping Name	**UN Number**	**Class**	**Packing Group / Risk Group**
Hydrogen Sulfide	HYDROGEN SULFIDE; or HYDROGEN SULPHIDE	UN1053	2.3; 2.1	Not applicable
Carbon Monoxide	Carbon monoxide, compressed	UN1016	2.3; 2.1	Not applicable
Methane	Methane, compressed	UN1971	2.1	Not applicable
Oxygen	Oxygen, compressed	UN1072	2.2; 5.1	Not applicable
Carbon Dioxide	Carbon dioxide	UN1013	2.2	Not applicable
Nitrogen	Nitrogen, compressed	UN1066	2.2	Not applicable

Section 15: Regulatory Information

U.S. Regulations

	CERCLA Sections	**SARA 355.30**	**SARA 355.40**

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Hydrogen Sulfide	100 LBS RQ	500 LBS TPQ	100 LBS RQ
Carbon Monoxide	Not regulated.	Not regulated.	Not regulated.
Methane	Not regulated.	Not regulated.	Not regulated.
Oxygen	Not regulated.	Not regulated.	Not regulated.
Carbon Dioxide	Not regulated.	Not regulated.	Not regulated.
Nitrogen	Not regulated.	Not regulated.	Not regulated.

SARA 370.21

	Acute	Chronic	Fire	Reactive	Sudden Release
Hydrogen Sulfide	Yes	No	Yes	No	Yes
Carbon Monoxide	Yes	No	Yes	No	Yes
Methane	Yes	No	Yes	No	Yes
Oxygen	No	No	Yes	No	Yes
Carbon Dioxide	Yes	No	No	No	Yes
Nitrogen	Yes	No	No	No	Yes

SARA 372.65

Hydrogen Sulfide	HYDROGEN SULFIDE: Administrative stay issued Aug. 22, 1994
Carbon Monoxide	Not regulated.
Methane	Not regulated.
Oxygen	Not regulated.
Carbon Dioxide	Not regulated.
Nitrogen	Not regulated.

OSHA Process Safety

Hydrogen Sulfide	1500 LBS TQ
Carbon Monoxide	Not regulated.
Methane	Not regulated.
Oxygen	Not regulated.
Carbon Dioxide	Not regulated.
Nitrogen	Not regulated.

State Regulations

	CA Proposition 65
Hydrogen Sulfide	Not regulated.
Carbon Monoxide	WARNING: This product can expose you to chemicals including Carbon Monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
Methane	Not regulated.
Oxygen	Not regulated.
Carbon Dioxide	Not regulated.
Nitrogen	Not regulated.

Canadian Regulations

	WHMIS Classification
Hydrogen Sulfide	A, B1, D1A, D2B.
Carbon Monoxide	A, B1, D1A, D2A.
Methane	A, B1
Oxygen	A,C
Carbon Dioxide	A
Nitrogen	A

National Inventory Status

	US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDSL)
Hydrogen Sulfide	Listed on inventory.	Not listed.	Listed on inventory.
Carbon Monoxide	Listed on inventory.	Not listed.	Listed on inventory.
Methane	Listed on inventory.	Not listed.	Listed on inventory.
Oxygen	Listed on inventory.	Not listed.	Not determined.
Carbon Dioxide	Listed on inventory.	Not listed.	Listed on inventory.
Nitrogen	Listed on inventory.	Not listed.	Listed on inventory.

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Section 16: Other Information

	NFPA Rating
Hydrogen Sulfide	HEALTH=4 FIRE=4 REACTIVITY=0
Carbon Monoxide	HEALTH=2 FIRE=4 REACTIVITY=0
Methane	HEALTH=0 FIRE=4 REACTIVITY=0
Oxygen	HEALTH=0 FIRE=0 REACTIVITY=0 SPECIAL=OX
Carbon Dioxide	HEALTH=3 FIRE=0 REACTIVITY=0 SPECIAL=SA
Nitrogen	HEALTH=0 FIRE=0 REACTIVITY=0 SPECIAL=SA

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

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SAFETY DATA SHEET

Creation Date 30-Oct-2009 **Revision Date** 24-Dec-2021 **Revision Number** 4

1. Identification

Product Name **Potassium hydrogen phthalate**

Cat No. : **AC177120000; AC177120025; AC177120050; AC177121000; AC177125000**

CAS No 877-24-7
Synonyms Potassium acid phthalate; Potassium biphthalate

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company
Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements
None required

Hazards not otherwise classified (HNOC)
None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
1,2-Benzenedicarboxylic acid, monopotassium salt	877-24-7	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation persists.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.

Ingestion Do NOT induce vomiting. Get medical attention.

Most important symptoms and effects No information available.

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products
Carbon monoxide (CO). Carbon dioxide (CO_2).
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
1	1	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.
Environmental Precautions Should not be released into the environment. See Section 12 for additional Ecological Information.

Methods for Containment and Clean Up Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

Engineering Measures None under normal use conditions.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection No protective equipment is needed under normal use conditions.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pH	3.8-4.0 5% aq.sol
Melting Point/Range	295 - 300 °C / 563 - 572 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Slightly soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C8 H5 K O4
Molecular Weight	204.22

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information
Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
1,2-Benzenedicarboxylic acid, monopotassium salt	LD50 > 3200 mg/kg (Rat)	>1000 mg/kg	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
1,2-Benzenedicarboxylic acid, monopotassium salt	877-24-7	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity
Do not empty into drains.

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its water solubility.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT Not regulated
TDG Not regulated
IATA Not regulated
IMDG/IMO Not regulated

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
1,2-Benzenedicarboxylic acid, monopotassium salt	877-24-7	X	ACTIVE	-

Legend:
TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories
Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
1,2-Benzenedicarboxylic acid, monopotassium salt	877-24-7	X	-	212-889-4	X	X	X	X	X	KE-02310

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations Not applicable

U.S. Department of Transportation
Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
1,2-Benzenedicarboxylic acid, monopotassium salt	877-24-7	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
1,2-Benzenedicarboxylic acid, monopotassium salt	877-24-7	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 30-Oct-2009
Revision Date 24-Dec-2021
Print Date 24-Dec-2021
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Section 1. Product and Company Identification

Product Name: 525-4, 500-4, 560-4 (pH 4.01 buffer solution)

Product code: 3999960018, 3999960029, 3999960146

Recommended use: For laboratory and Industrial use

Manufacturer / Supplier: Horiba Instruments (Singapore) Pte Ltd
83 Science Park Drive, #02-02A, The Curie
Singapore-118258
Contact No: +65 69089600

Section 2. Hazard identification

Classification of the Substance or Mixture: Mixture

The mixture is classified as not hazardous according to regulation (EC) 1272/2008, Globally Harmonized System (GHS)

GHS Label elements:

Signal word: No Signal word
Hazard statement: No Known significant effects or critical hazards

Precautionary statements:
General: Do not handle until all safety precautions have been read and understood

Other hazards which do not result in classification: None known

Section 3. Composition/ information on ingredients

Substance or Mixture: Mixture

CAS Numbers other identifiers:

Ingredients	CAS Number	Percentage
Potassium Hydrogen Phthalate	877-24-7	<2%
Water	7732-18-5	>98%

This product contains <0.01% other ingredient, not required to be listed as it is not hazardous to health and environment.

The exact percentage of composition has been withheld as a trade secret

Chemical formula: Not applicable

Section 4. First Aid Measures

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove any contact lenses. Get medical attention if irritation occurs.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion: Clean mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, both acute and delayed

Potential acute health effects: No known significant effects or critical hazards

Over-exposure signs/symptoms: No specific data available

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (Section 11)

Section 5. Firefighting Measures

Extinguishing Media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing Media: No Information available

Specific hazards arising from the substance or mixture: No specific information available

Hazardous thermal decomposition products: No Specific data

Special protective actions for Fire-fighters: Promptly isolate the scene by removing all persons from the incident if there is fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.

Section 6. Accidental release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in section 8 on suitable and unsuitable materials. See also the information in “For non-emergency personnel”

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, water ways, soil and air

Methods and material for containment and cleaning up:

Method for Containment: Prevent further leakage or spillage if safe to do so.

Methods of cleaning up: Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

Section 7. Handling and storage

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits: None

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance	
Physical state:	Liquid
Colour:	Colourless
Odour:	Odourless
Odour Threshold:	Not available
pH:	4.01
Melting Point:	Not available
Boiling Point:	100° C
Flash point:	[Product does not sustain combustion.]
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Lower and upper explosive (Flammable) limits:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	Not available
Partition coefficient n- octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

Section 10. Stability and reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	The product is stable
Possibility of hazardous reactions:	Hazardous reactions or instability may occur under certain conditions of storage or use.
Conditions to avoid:	No specific data
Incompatible materials:	No specific data
Hazardous decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity:	Not available
Irritation/Corrosion:	Not available
Sensitization:	Not available
Mutagenicity:	Not available
Carcinogenicity:	Not available
Reproductive toxicity:	Not available
Teratogenicity:	Not available
Specific target organ toxicity (single exposure):	Not available
Specific target organ toxicity (repeated exposure):	Not available
Aspiration hazard:	Not available
Information on the likely routes of exposure:	Not available

Potential acute effects:

Eye contact:	No known significant effects or critical hazards
Inhalation:	No known significant effects or critical hazards
Skin contact:	No known significant effects or critical hazards
Ingestion:	No known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:	No specific data
Inhalation:	No specific data
Skin contact:	No specific data
Ingestion:	No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate: effects:	Not available
Potential delayed effects:	Not available

Long term exposure

Potential immediate: effects	Not available
Potential delayed effects:	Not available

Potential chronic health effects:	Not available
General:	No known significant effects or critical hazards
Carcinogenicity:	No known significant effects or critical hazards
Mutagenicity:	No known significant effects or critical hazards
Teratogenicity:	No known significant effects or critical hazards
Developmental effects:	No known significant effects or critical hazards
Fertility effects:	No known significant effects or critical hazards

Numerical measures of toxicity

Acute toxicity estimates:	Not available

Section 12. Ecological information

Toxicity:	Not available
Persistence/degradability:	Not available

Bio accumulative potential: Not available

Mobility in soil
Soil/water
partition coefficient (K_{OC}): Not available

Other adverse effects: No known significant effects or critical hazards.

Section 13. Disposal consideration

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture.
International Inventories:
USINV Complies

CANINV	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Key of abbreviation:
USINV / TSCA: United States Toxic Substanc3es Control Act Section 8(b) Inventory
CANINV / DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS: European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS: Japanese Existing and New Chemical Substances
IECSC: Chinese Inventory of Existing Chemical Substances
KECL: Korean Existing and Evaluated Chemical Substances
PICCS: Philippines Inventory of Chemical and Chemical Substances
AICS: Australian Inventory of Chemical Substances

Chemical safety assessment:
A chemical safety assessment according to regulation (EC) No: 1907/2006 is not required.

Section 16. Other information

History:

Date of issue: 6 March 2018

Key of abbreviation:
ATE: Acute Toxicity Estimate
BCF: Bioconcentration Factor
GHS: Globally harmonized System of classification and labelling of chemicals
IATA: International Air Transport Association
IBC= Intermediate Bulk Container
IMDG International maritime Dangerous goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

Notice to reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above- named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

HORIBA

SAFETY DATA SHEET

Section 1. Product and Company Identification

Product Name: 525-7, 500-7, 560-7 (pH 7 buffer solution)

Product code: 3999960020, 3999960031, 3999960147

Recommended use: For laboratory and Industrial use

Manufacturer / Supplier: Horiba Instruments (Singapore) Pte Ltd
83 Science Park Drive, #02-02A, The Curie
Singapore-118258
Contact No: +65 69089600

Section 2. Hazard identification

Classification of the Substance or Mixture: Mixture

The mixture is classified as not hazardous according to regulation (EC) 1272/2008, Globally Harmonized System (GHS)

GHS Label elements:

Signal word: No Signal word
Hazard statement: No Known significant effects or critical hazards

Precautionary statements:
General: Do not handle until all safety precautions have been read and understood

Other hazards which do not result in classification: None known

Section 3. Composition/ information on ingredients

Substance or Mixture: Mixture

CAS Numbers other identifiers:

Ingredients	CAS Number	Percentage
Potassium Dihydrogen Phosphate	7778-77-0	<1%
Disodium Hydrogen Phosphate	7558-79-4	<1%
Water	7732-18-5	>98%

This product contains <0.01% other ingredient, not required to be listed as it is not hazardous to health and environment.

The exact percentage of composition has been withheld as a trade secret

Chemical formula: Not applicable

Section 4. First Aid Measures

Description of necessary first aid measures

Eye contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove any contact lenses. Get medical attention if irritation occurs.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, both acute and delayed

Potential acute health effects: No known significant effects or critical hazards

Over-exposure signs/symptoms: No specific data available

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (Section 11)

Section 5. Firefighting Measures

Extinguishing Media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing Media: No Information available

Specific hazards arising from the substance or mixture: No specific information available

Hazardous thermal decomposition products: No Specific data

Special protective actions for Fire-fighters: Promptly isolate the scene by removing all persons from the incident if there is fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.

Section 6. Accidental release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in section 8 on suitable and unsuitable materials. See also the information in “For non-emergency personnel”

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, water ways, soil and air

Methods and material for containment and cleaning up:

Method for Containment: Prevent further leakage or spillage if safe to do so.

Methods of cleaning up: Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

Section 7. Handling and storage

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits: None

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance	
Physical state:	Liquid
Colour:	Colourless
Odour:	Odourless
Odour Threshold:	Not available
pH:	6.86
Melting Point:	Not available
Boiling Point:	100° C
Flash point:	[Product does not sustain combustion.]
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Lower and upper explosive (Flammable) limits:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	Not available
Partition coefficient n- octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

Section 10. Stability and reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	The product is stable
Possibility of hazardous reactions:	Hazardous reactions or instability may occur under certain conditions of storage or use.
Conditions to avoid:	No specific data
Incompatible materials:	No specific data
Hazardous decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity:	Not available
Irritation/Corrosion:	Not available
Sensitization:	Not available
Mutagenicity:	Not available
Carcinogenicity:	Not available
Reproductive toxicity:	Not available
Teratogenicity:	Not available
Specific target organ toxicity (single exposure):	Not available
Specific target organ toxicity (repeated exposure):	Not available
Aspiration hazard:	Not available
Information on the likely routes of exposure:	Not available

Potential acute effects:

Eye contact:	No known significant effects or critical hazards
Inhalation:	No known significant effects or critical hazards
Skin contact:	No known significant effects or critical hazards
Ingestion:	No known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:	No specific data
Inhalation:	No specific data
Skin contact:	No specific data
Ingestion:	No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects:	Not available
Potential delayed effects:	Not available

Long term exposure

Potential immediate effects:	Not available
Potential delayed effects:	Not available

Potential chronic health effects:	Not available
General:	No known significant effects or critical hazards
Carcinogenicity:	No known significant effects or critical hazards
Mutagenicity:	No known significant effects or critical hazards
Teratogenicity:	No known significant effects or critical hazards
Developmental effects:	No known significant effects or critical hazards
Fertility effects:	No known significant effects or critical hazards

Numerical measures of toxicity

Acute toxicity estimates:	Not available

Section 12. Ecological information

Toxicity:	Not available
Persistence/degradability:	Not available
Bio accumulative potential:	Not available

Mobility in soil

Soil/water partition coefficient (K_{OC}):	Not available

Other adverse effects: No known significant effects or critical hazards.

Section 13. Disposal consideration

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture.
International Inventories:

USINV	Complies
CANINV	Complies
EINECS/ELINCS	Complies
ENCS	Complies

IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Key of abbreviation:
USINV / TSCA: United States Toxic Substanc3es Control Act Section 8(b) Inventory
CANINV / DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS: European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS: Japanese Existing and New Chemical Substances
IECSC: Chinese Inventory of Existing Chemical Substances
KECL: Korean Existing and Evaluated Chemical Substances
PICCS: Philippines Inventory of Chemical and Chemical Substances
AICS: Australian Inventory of Chemical Substances

Chemical safety assessment:
A chemical safety assessment according to regulation (EC) No: 1907/2006 is not required.

Section 16. Other information

History:

Date of issue: 28 Feb 2018

Key of abbreviation:
ATE: Acute Toxicity Estimate
BCF: Bioconcentration Factor
GHS: Globally harmonized System of classification and labelling of chemicals
IATA: International Air Transport Association
IBC= Intermediate Bulk Container
IMDG International maritime Dangerous goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

Notice to reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above- named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

SAFETY DATA SHEET

Section 1. Product and Company Identification

Product Name: 525-10, 500-10, 560-10 (pH 10.01 buffer solution)

Product code: 3999960022, 3999960033, 3999960138

Recommended use: For laboratory and Industrial use

Manufacturer / Supplier: Horiba Instruments (Singapore) Pte Ltd
83 Science Park Drive, #02-02A, The Curie
Singapore-118258
Contact No: +65 69089600

Section 2. Hazard identification

Classification of the Substance or Mixture: Mixture

The mixture is classified as not hazardous according to regulation (EC) 1272/2008, Globally Harmonized System (GHS)

GHS Label elements:

Signal word: No Signal word
Hazard statement: No Known significant effects or critical hazards

Precautionary statements:
General: Do not handle until all safety precautions have been read and understood

Other hazards which do not result in classification: None known

Section 3. Composition/ information on ingredients

Substance or Mixture: Mixture

CAS Numbers other identifiers:

Ingredients	CAS Number	Percentage
Sodium Carbonate	497-19-8	<1%
Sodium Bicarbonate	144-55-8	<1%
Water	7732-18-5	>98%

This product contains <0.01% other ingredient, not required to be listed as it is not hazardous to health and environment.

The exact percentage of composition has been withheld as a trade secret

Chemical formula: Not applicable

Section 4. First Aid Measures

Description of necessary first aid measures

Eye contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove any contact lenses. Get medical attention if irritation occurs.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, both acute and delayed

Potential acute health effects: No known significant effects or critical hazards

Over-exposure signs/symptoms: No specific data available

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (Section 11)

Section 5. Firefighting Measures

Extinguishing Media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing Media: No Information available

Specific hazards arising from the substance or mixture: No specific information available

Hazardous thermal decomposition products: No Specific data

Special protective actions for Fire-fighters: Promptly isolate the scene by removing all persons from the incident if there is fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.

Section 6. Accidental release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in section 8 on suitable and unsuitable materials. See also the information in “For non-emergency personnel”

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, water ways, soil and air

Methods and material for containment and cleaning up:

Method for Containment: Prevent further leakage or spillage if safe to do so.

Methods of cleaning up: Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

Section 7. Handling and storage

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits: None

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with

side-shields.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state:	Liquid
Colour:	Colourless
Odour:	Odourless
Odour Threshold:	Not available
pH:	10.01
Melting Point:	Not available
Boiling Point:	100° C
Flash point:	[Product does not sustain combustion.]
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Lower and upper explosive (Flammable) limits:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	Not available
Partition coefficient n- octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: The product is stable

Possibility of hazardous reactions: Hazardous reactions or instability may occur under certain conditions of storage or use.

Conditions to avoid: No specific data

Incompatible materials: No specific data

Hazardous decomposition

Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity:	Not available
Irritation/Corrosion:	Not available
Sensitization:	Not available
Mutagenicity:	Not available
Carcinogenicity:	Not available
Reproductive toxicity:	Not available
Teratogenicity:	Not available
Specific target organ: toxicity (single exposure):	Not available
Specific target organ toxicity (repeated exposure):	Not available
Aspiration hazard:	Not available
Information on the likely routes of exposure:	Not available

Potential acute effects:

Eye contact:	No known significant effects or critical hazards
Inhalation:	No known significant effects or critical hazards
Skin contact:	No known significant effects or critical hazards
Ingestion:	No known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:	No specific data.
Inhalation:	No specific data.
Skin contact:	No specific data.
Ingestion:	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effect:	Not available
Potential delayed effects:	Not available

Long term exposure

Potential immediate effects:	Not available
Potential delayed effects:	Not available

Potential chronic health effects: Not available

General:	No known significant effects or critical hazards
Carcinogenicity:	No known significant effects or critical hazards
Mutagenicity:	No known significant effects or critical hazards
Teratogenicity:	No known significant effects or critical hazards
Developmental effects:	No known significant effects or critical hazards
Fertility effects:	No known significant effects or critical hazards

Numerical measures of toxicity

Acute toxicity estimates: Not available

Section 12. Ecological information

Toxicity: Not available

Persistence/degradability: Not available

Bio accumulative potential: Not available

Mobility in soil
Soil/water partition coefficient (K_{OC}): Not available

Other adverse effects: No known significant effects or critical hazards.

Section 13. Disposal consideration

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture.
International Inventories:

USINV	Complies
CANINV	Complies
EINECS/ELINCS	Complies
ENCS	Complies

IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Key of abbreviation:
USINV / TSCA: United States Toxic Substanc3es Control Act Section 8(b) Inventory
CANINV / DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS: European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS: Japanese Existing and New Chemical Substances
IECSC: Chinese Inventory of Existing Chemical Substances
KECL: Korean Existing and Evaluated Chemical Substances
PICCS: Philippines Inventory of Chemical and Chemical Substances
AICS: Australian Inventory of Chemical Substances

Chemical safety assessment:
A chemical safety assessment according to regulation (EC) No: 1907/2006 is not required.

Section 16. Other information

History:

Date of issue: 6 March 2018

Key of abbreviation:
ATE: Acute Toxicity Estimate
BCF: Bioconcentration Factor
GHS: Globally harmonized Syatem of classification and labelling of chemicals
IATA: International Air Transport Association
IBC= Intermediate Bulk Container
IMDG International maritime Dangerous goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

Notice to reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above- named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

HORIBA

SAFETY DATA SHEET

Section 1. Product and Company Identification

Product Name: 525-3; 560-3 (internal filling solution for pH combination electrode)

Product code: 3999960023; 3999960139

Recommended use: For laboratory and Industrial use

Manufacturer / Supplier: Horiba Instruments (Singapore) Pte Ltd
83 Science Park Drive, #02-02A, The Curie
Singapore-118258
Contact No: +65 69089660

Section 2. Hazard identification

Classification of the Substance or Mixture: Mixture

The mixture is classified as not hazardous according to regulation (EC) 1272/2008, Globally Harmonized System (GHS)

GHS Label elements:

Signal word: No Signal word
Hazard statement: No Known significant effects or critical hazards

Precautionary statements:
General: Do not handle until all safety precautions have been read and understood

Other hazards which do not result in classification: None known

Section 3. Composition/ information on ingredients

Substance or Mixture: Mixture

CAS Numbers other identifiers:

Ingredients	CAS Number	Percentage
Potassium Chloride	7447-40-7	<25%
Water	7732-18-5	>75%

The exact percentage of composition has been withheld as a trade secret

Chemical formula: Not applicable

Section 4. First Aid Measures

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove any contact lenses. Get medical attention if irritation occurs.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion: Clean mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, both acute and delayed

Potential acute health effects:

Eye contact: Causes eye irritation

Over-exposure signs/symptoms: No specific data available

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (Section 11)

Section 5. Firefighting Measures

Extinguishing Media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing Media: No Information available

Specific hazards arising from the substance or mixture: No specific information available

Hazardous thermal decomposition products: No Specific data

Special protective actions for Fire-fighters: Promptly isolate the scene by removing all persons from the incident if there is fire. No action shall be taken involving any personal risk or without suitable training

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment self- contained breathing apparatus with a full face-piece operated in positive pressure mode.

Section 6. Accidental release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information

In section 8 on suitable and unsuitable materials. See also the information in “For non-emergency personnel”.

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, water ways, soil and air.

Methods and material for containment and cleaning up:

Method for Containment: Prevent further leakage or spillage if safe to do so.

Methods of cleaning up: Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

Section 7. Handling and storage

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits: None

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process Equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should

be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance	
Physical state:	Liquid
Colour:	Colourless
Odour:	Odourless
Odour Threshold:	Not available
pH:	Not available
Melting Point:	Not available
Boiling Point:	100° C
Flash point:	[Product does not sustain combustion.]
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Lower and upper explosive: (Flammable) limits	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	Not available
Partition coefficient: n- octanol/water	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients

Chemical stability: The product is stable

Possibility of hazardous: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: No specific data

Incompatible materials: No specific data

Hazardous decomposition: Products Under normal conditions of storage and use, hazardous decomposition products should be produced

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity:	Not available
Irritation/Corrosion:	Not available
Sensitization:	Not available
Mutagenicity:	Not available
Carcinogenicity:	Not available
Reproductive toxicity:	Not available
Teratogenicity:	Not available
Specific target organ toxicity (single exposure):	Not available
Specific target organ: toxicity (repeated exposure):	Not available
Aspiration hazard:	Not available
Information on the likely: routes of exposure	Not available

Potential acute health effects:

Eye contact:	Causes eye irritation
Inhalation:	No known significant effects or critical hazards
Skin contact:	No known significant effects or critical hazards
Ingestion:	No known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:	Adverse symptoms may include irritation, watering and redness
Inhalation:	No specific data
Skin contact:	No specific data
Ingestion:	No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate: effects	Not available
Potential delayed effects:	Not available

Long term exposure

Potential immediate: effects	Not available
Potential delayed effects:	Not available

Potential chronic health effects:	Not available
General:	No known significant effects or critical hazards
Carcinogenicity:	No known significant effects or critical hazards
Mutagenicity:	No known significant effects or critical hazards
Teratogenicity:	No known significant effects or critical hazards
Developmental effects:	No known significant effects or critical hazards
Fertility effects:	No known significant effects or critical hazards

Numerical measures of toxicity

Acute toxicity estimates:	Not available

Section 12. Ecological information

Toxicity: Not available

Persistence/degradability: Not available

Bio accumulative potential: Not available

Mobility in soil
Soil/water
partition coefficient (K_{OC}): Not available

Other adverse effects: No known significant effects or critical hazards.

Section 13. Disposal consideration

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

Special precautions for user: Transport within user's premises: always transport in closed containers that are ` upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture.
International Inventories:

USINV	Complies
CANINV	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Key of abbreviation:
USINV / TSCA: United States Toxic Substanc3es Control Act Section 8(b) Inventory
CANINV / DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS: European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS: Japanese Existing and New Chemical Substances
IECSC: Chinese Inventory of Existing Chemical Substances
KECL: Korean Existing and Evaluated Chemical Substances
PICCS: Philippines Inventory of Chemical and Chemical Substances
AICS: Australian Inventory of Chemical Substances

Chemical safety assessment:
A chemical safety assessment according to regulation (EC) No: 1907/2006 is not required.

Section 16. Other information

History:

Date of issue: 8 March 2018

Key of abbreviation:

ATE: Acute Toxicity Estimate

BCF: Bioconcentration Factor

GHS: Globally harmonized Syatem of classification and labelling of chemicals

IATA: International Air Transport Association

IBC= Intermediate Bulk Container

IMDG International maritime Dangerous goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

Notice to reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above- named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

SAFETY DATA SHEET

Isobutylene

Section 1. Identification

GHS product identifier : Isobutylene

Chemical name : 2-methylpropene

Other means of identification : 1-Propene, 2-methyl-; Isobutene; Isobutylene; 1-Propene, 2-methyl- (isobutene); 1, 1-Dimethylethylene; Isopropylidenemethylene; iso-Butene; i-Butene; 2-Methylpropylene; 2-Methyl-2-propene; 2-Methyl-1-propene

Product type : Gas.

Product use : Synthetic/Analytical chemistry.

Synonym : 1-Propene, 2-methyl-; Isobutene; Isobutylene; 1-Propene, 2-methyl- (isobutene); 1, 1-Dimethylethylene; Isopropylidenemethylene; iso-Butene; i-Butene; 2-Methylpropylene; 2-Methyl-2-propene; 2-Methyl-1-propene

SDS # : 001031

Supplier's details : Airgas USA, LLC and its affiliates
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253

24-hour telephone : 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE GASES - Category 1
GASES UNDER PRESSURE - Liquefied gas

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : Extremely flammable gas.
May form explosive mixtures with air.
Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation.

Precautionary statements

General : Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction. Always keep container in upright position. Approach suspected leak area with caution.

Prevention : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response : Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so.

Storage : Protect from sunlight. Store in a well-ventilated place.

Disposal : Not applicable.

Hazards not otherwise classified : In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.

Section 3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : 2-methylpropene

Other means of identification : 1-Propene, 2-methyl-; Isobutene; Isobutylene; 1-Propene, 2-methyl- (isobutene); 1, 1-Dimethylethylene; Isopropylidenemethylene; iso-Butene; i-Butene; 2-Methylpropylene; 2-Methyl-2-propene; 2-Methyl-1-propene

Product code : 001031

CAS number/other identifiers

CAS number : 115-11-7

Ingredient name	%	CAS number
Isobutylene	100	115-11-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : As this product is a gas, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Ingestion : As this product is a gas, refer to the inhalation section.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Section 4. First aid measures

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Contains gas under pressure. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Accidental releases pose a serious fire or explosion hazard. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.

Large spill : Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Use only non-sparking tools. Avoid contact with eyes, skin and clothing. Empty containers retain product residue and can be hazardous. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F). Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Isobutylene	**ACGIH TLV (United States, 3/2017).** TWA: 250 ppm 8 hours.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Section 8. Exposure controls/personal protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Gas. [Compressed gas.]

Color : Colorless.

Odor : Characteristic.

Odor threshold : Not available.

pH : Not available.

Melting point : -140.7°C (-221.3°F)

Boiling point : -6.9°C (19.6°F)

Critical temperature : 144.75°C (292.6°F)

Flash point : Closed cup: -76.1°C (-105°F)

Evaporation rate : Not available.

Flammability (solid, gas) : Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and oxidizing materials.

Lower and upper explosive (flammable) limits : Lower: 1.8%
Upper: 9.6%

Vapor pressure : 24.3 (psig)

Vapor density : 1.94 (Air = 1)

Specific Volume (ft ^{3}/lb) : 6.6845

Gas Density (lb/ft ^{3}) : 0.1496 (25°C / 77 to °F)

Relative density : Not applicable.

Solubility : Not available.

Solubility in water : 0.26 g/l

Partition coefficient: n-octanol/water : 2.34

Auto-ignition temperature : 465°C (869°F)

Decomposition temperature : Not available.

Viscosity : Not applicable.

Flow time (ISO 2431) : Not available.

Molecular weight : 56.12 g/mole

Aerosol product

Heat of combustion : -45029034 J/kg

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible materials : Oxidizers

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Isobutylene	LC50 Inhalation Vapor	Rat	550000 mg/m³	4 hours

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Section 11. Toxicological information

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : As this product is a gas, refer to the inhalation section.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Isobutylene	2.34	-	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Section 12. Ecological information

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1055	UN1055	UN1055	UN1055	UN1055
UN proper shipping name	ISOBUTYLENE	ISOBUTYLENE	ISOBUTYLENE	ISOBUTYLENE	ISOBUTYLENE
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

Additional information

DOT Classification : **Limited quantity** Yes.
Quantity limitation Passenger aircraft/rail: Forbidden. Cargo aircraft: 150 kg.
Special provisions 19, T50

TDG Classification : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).
Explosive Limit and Limited Quantity Index 0.125
ERAP Index 3000
Passenger Carrying Ship Index Forbidden
Passenger Carrying Road or Rail Index Forbidden
Special provisions 29

IATA : **Quantity limitation** Passenger and Cargo Aircraft: Forbidden. Cargo Aircraft Only: 150 kg.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined
Clean Air Act (CAA) 112 regulated flammable substances: Isobutylene

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Refer to Section 2: Hazards Identification of this SDS for classification of substance.

State regulations

Massachusetts : This material is listed.
New York : This material is not listed.
New Jersey : This material is listed.
Pennsylvania : This material is listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : This material is listed or exempted.
Canada : This material is listed or exempted.
China : This material is listed or exempted.
Europe : This material is listed or exempted.
Japan : **Japan inventory (ENCS)**: This material is listed or exempted.
Japan inventory (ISHL): Not determined.
Malaysia : Not determined.
New Zealand : This material is listed or exempted.
Philippines : This material is listed or exempted.
Republic of Korea : This material is listed or exempted.

Section 15. Regulatory information

Taiwan	:	This material is listed or exempted.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States	:	This material is listed or exempted.
Viet Nam	:	Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	/	1
Flammability		4
Physical hazards		3

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE GASES - Category 1 GASES UNDER PRESSURE - Liquefied gas	Expert judgment Expert judgment

History

Date of printing	:	5/10/2018
Date of issue/Date of revision	:	5/10/2018
Date of previous issue	:	7/11/2016
Version	:	0.02
Key to abbreviations	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

Section 16. Other information

as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

References : Not available.

Notice to reader

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SAFETY DATA SHEET

Version 4.10
Revision Date 04/22/2016
Print Date 05/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Sudan Blue II
Product Number	:	306436
Brand	:	Sigma-Aldrich
CAS-No.	:	17354-14-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	Solvent Blue 35
Formula	:	$C_{22}H_{26}N_2O_2$
Molecular weight	:	350.45 g/mol
CAS-No.	:	17354-14-2
EC-No.	:	241-379-4

No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Wash off with soap and plenty of water.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapours, mist or gas.
For personal protection see section 8.

6.2 Environmental precautions
No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.
Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
General industrial hygiene practice.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: dark violet
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing	Melting point/range: 120 - 122 °C (248 - 252 °F)

	point	
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx)
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
No SARA Hazards

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
1,4-Bis(butylamino)anthraquinone	17354-14-2	1989-08-11

New Jersey Right To Know Components

	CAS-No.	Revision Date
1,4-Bis(butylamino)anthraquinone	17354-14-2	1989-08-11

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.10 Revision Date: 04/22/2016 Print Date: 05/01/2016

SAFETY DATA SHEET

Creation Date 08-Nov-2010 **Revision Date** 18-Jun-2015 **Revision Number** 2

1. Identification

Product Name **Fluoranthene**

Cat No. : **AC119170000; AC119170250; AC119171000; AC119175000**

Synonyms Benzo[j,k]fluorene

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4

Label Elements

Signal Word
Warning

Hazard Statements
Harmful if swallowed

Precautionary Statements
Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Fluoranthene	206-44-0	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion Do not induce vomiting. Get medical attention.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO_2). Dry chemical. alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point 100 °C / 212 °F
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO_2)
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	0	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.

Environmental Precautions See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. Handling and storage

Handling Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist. Avoid dust formation.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Light green
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	109 - 111 °C / 228.2 - 231.8 °F
Boiling Point/Range	384 - 34 °C / 723.2 - 93.2 °F
Flash Point	100 °C / 212 °F
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C16 H10
Molecular Weight	202.25

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Fluoranthene	2 g/kg (Rat)	3180 mg/kg (Rabbit)	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Fluoranthene	206-44-0	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Fluoranthene	Not listed	Oncorhynchus mykiss: LC50=0.0077 mg/L 96h	Not listed	EC50: 0.78 mg/L 20h

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility .

Component	log Pow
Fluoranthene	5.33

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Fluoranthene - 206-44-0	U120	-

14. Transport information

DOT
- **UN-No** UN3077
- **Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID, N.O.S.
- **Proper technical name** (Fluoranthene)
- **Hazard Class** 9
- **Packing Group** III

TDG
- **UN-No** UN3077
- **Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID, N.O.S.
- **Hazard Class** 9
- **Packing Group** III

IATA
- **UN-No** UN3077
- **Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s
- **Hazard Class** 9
- **Packing Group** III

IMDG/IMO
- **UN-No** UN3077
- **Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s
- **Hazard Class** 9
- **Packing Group** III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Fluoranthene	X	-	X	205-912-4	-		-	X	X	X	-

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Fluoranthene	206-44-0	>95	1.0 0.1

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Fluoranthene	-	-	X	X

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Fluoranthene	100 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Fluoranthene	X	X	X	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D1B Toxic materials

16. Other information

Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date	08-Nov-2010
Revision Date	18-Jun-2015
Print Date	18-Jun-2015
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Revision Date 10-Feb-2015 **Revision Number** 1

1. Identification

Product Name **Fluorene**

Cat No. : **AC156130000; AC156130250; AC156131000; AC156135000**

Synonyms Diphenylenemethane

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements
None required

Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects
May form combustible dust concentrations in air

3. Composition / information on ingredients

Component	CAS-No	Weight %
Fluorene	86-73-7	98

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Obtain medical attention.

Inhalation Remove from exposure, lie down. Move to fresh air. Obtain medical attention.

Ingestion Clean mouth with water. Get medical attention.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO_2). Dry chemical. chemical foam.

Unsuitable Extinguishing Media No information available

Flash Point 151 °C / 303.8 °F
Method - No information available

Autoignition Temperature Not applicable
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Dust can form an explosive mixture in air. Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous Combustion Products
None known
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
0	1	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let this chemical enter the environment.

7. Handling and storage

Handling Avoid contact with skin and eyes. Do not breathe dust. Do not ingest.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Beige
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	112 - 116 °C / 233.6 - 240.8 °F
Boiling Point/Range	298 °C / 568.4 °F @ 760 mmHg
Flash Point	151 °C / 303.8 °F
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	13 hPa @ 146 °C
Vapor Density	Not applicable
Relative Density	1.200
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C13 H10
Molecular Weight	166.22

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	None under normal use conditions
Hazardous Polymerization	No information available.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information	No acute toxicity information is available for this product
Component Information	

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Fluorene	86-73-7	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available
Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Persistence and Degradability Insoluble in water May persist
Bioaccumulation/ Accumulation No information available.

Mobility . Is not likely mobile in the environment due its low water solubility.

Component	log Pow
Fluorene	4.18

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT Not regulated
TDG Not regulated
IATA
- **UN-No** 3077
- **Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.*
- **Hazard Class** 9
- **Packing Group** III

IMDG/IMO

UN-No	3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class	9
Packing Group	III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Fluorene	X	X	-	201-695-5	-		X	X	X	X	-

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Fluorene	-	-	X	X

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Fluorene	5000 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Fluorene	X	X	X	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class B4 Flammable solid

16. Other information

Prepared By
Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Revision Date 10-Feb-2015
Print Date 10-Feb-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

Safety Data Sheet

Material Name: Fuel Oil No. 2

SDS No. 0088
EU/CLP GHS

Synonyms: #2 Heating Oil; 2 Oil; Off-road Diesel Fuel

* * * Section 1 - Product and Company Identification * * *

Manufacturer Information

Hess Corporation
1 Hess Plaza
Woodbridge, NJ 07095-0961

Phone: 732-750-6000 Corporate EHS
Emergency # 800-424-9300 CHEMTREC
www.hess.com (Environment, Health, Safety Internet Website)

* * * Section 2 - Hazards Identification * * *

GHS Classification:

Flammable Liquids - Category 3
Acute Toxicity, Inhalation - Category 4
Skin Corrosion/Irritation – Category 2
Eye Damage/Irritation – Category 2
Carcinogenicity - Category 2
Specific Target Organ Toxicity (Single Exposure) – Category 3 (respiratory irritation, narcosis)
Aspiration Hazard – Category 1
Hazardous to the Aquatic Environment, Acute Hazard – Category 3

GHS LABEL ELEMENTS

Symbol(s)

Signal Word

DANGER

Hazard Statements

Flammable liquid and vapor.
Harmful if inhaled.
Causes skin irritation.
Causes eye irritation.
Suspected of causing cancer.
Suspected of causing genetic defects.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May be fatal if swallowed and enters airways.
Harmful to aquatic life.

Precautionary Statements

Prevention

Keep away from heat/sparks/open flames/hot surfaces. No smoking
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.
Avoid breathing fume/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Wash hands and forearms thoroughly after handling.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid release to the environment.

Response

In case of fire: Use water spray, fog or foam.
If on skin (or hair): Wash with plenty of soap and water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs, get medical advice/attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If exposed or concerned: Get medical advice/attention.
If swallowed: Immediately all a poison center or doctor/physician if you feel unwell. Do NOT induce vomiting.

Storage

Store in a well ventilated place.
Keep cool. Keep container tightly closed.
Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

* * * Section 3 - Composition / Information on Ingredients * * *

CAS #	Component	Percent
68476-30-2	Fuel oil No. 2	100
91-20-3	Naphthalene	<0.1

A complex combination of hydrocarbons with carbon numbers in the range C9 and higher produced from the distillation of petroleum crude oil.

* * * Section 4 - First Aid Measures * * *

First Aid: Eyes

In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

First Aid: Skin

Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or with waterless hand cleanser. Obtain medical attention if irritation or redness develops.

First Aid: Ingestion

DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

First Aid: Inhalation

Remove person to fresh air. If person is not breathing, provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

* * * Section 5 - Fire Fighting Measures * * *

General Fire Hazards

See Section 9 for Flammability Properties.

Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

Extinguishing Media

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO_2, water spray, fire fighting foam, or gaseous extinguishing agent.

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment. Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing. Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

* * * Section 6 - Accidental Release Measures * * *

Recovery and Neutralization

Carefully contain and stop the source of the spill, if safe to do so.

Materials and Methods for Clean-Up

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal.

Emergency Measures

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Personal Precautions and Protective Equipment

Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

Environmental Precautions

Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

Prevention of Secondary Hazards

None

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Handle as a combustible liquid. Keep away from heat, sparks, excessive temperatures and open flame! No smoking or open flame in storage, use or handling areas. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when this product is loaded into tanks previously containing low flash point products (such as gasoline) - see API Publication 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents."

Storage Procedures

Keep containers closed and clearly labeled. Use approved vented storage containers. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks."

Incompatibilities

Keep away from strong oxidizers; Fluorel ®

* * * Section 8 - Exposure Controls / Personal Protection * * *

Component Exposure Limits

Fuel oil No. 2 (270-671-4)

ACGIH: 100 mg/m3 TWA (inhalable fraction and vapor, as total hydrocarbons, listed under Diesel fuel)
Skin - potential significant contribution to overall exposure by the cutaneous route (listed under Diesel fuel)

Belgium: 100 mg/m3 TWA (as total hydrocarbon, aerosol and vapor)
Skin (listed under Gas oil)

Portugal: 100 mg/m3 TWA [VLE-MP] (aerosol and vapor, as total Hydrocarbons, listed under Fuel diesel)

Naphthalene (202-049-5)

ACGIH: 15 ppm STEL
10 ppm TWA
Skin - potential significant contribution to overall exposure by the cutaneous route

Austria: 10 ppm TWA [TMW]; 50 mg/m3 TWA [TMW]
skin notation

Belgium: 15 ppm STEL; 80 mg/m3 STEL
10 ppm TWA; 53 mg/m3 TWA
Skin

Denmark: 10 ppm TWA; 50 mg/m3 TWA

Finland: 2 ppm STEL; 10 mg/m3 STEL
1 ppm TWA; 5 mg/m3 TWA

France: 10 ppm TWA [VME]; 50 mg/m3 TWA [VME]

Germany: 0.1 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when MAK and BAT values are observed, inhalable fraction, exposure factor 1); 0.5 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when MAK and BAT values are observed, inhalable fraction, exposure factor 1)

Greece: 10 ppm TWA; 50 mg/m3 TWA

Ireland: 15 ppm STEL; 75 mg/m3 STEL
10 ppm TWA; 50 mg/m3 TWA

Netherlands: 80 mg/m3 STEL
50 mg/m3 TWA

Portugal: 10 ppm TWA [VLE-MP]

Spain: 15 ppm STEL [VLA-EC]; 80 mg/m3 STEL [VLA-EC]
10 ppm TWA [VLA-ED]; 53 mg/m3 TWA [VLA-ED]
skin - potential for cutaneous exposure

Sweden: 10 ppm LLV; 50 mg/m3 LLV
15 ppm STV; 80 mg/m3 STV

Engineering Measures

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

Personal Protective Equipment: Respiratory

A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

Personal Protective Equipment: Hands

Gloves constructed of nitrile, neoprene, or PVC are recommended.

Personal Protective Equipment: Eyes

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

Personal Protective Equipment: Skin and Body

Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information.

* * * Section 9 - Physical & Chemical Properties * * *

Appearance:	Red or reddish/orange colored (dyed)	**Odor:**	Mild, petroleum distillate odor
Physical State:	Liquid	**pH:**	ND
Vapor Pressure:	0.009 psia @ 70 °F (21 °C)	**Vapor Density:**	>1.0
Boiling Point:	340 to 700 °F (171 to 371 °C)	**Melting Point:**	ND
Solubility (H2O):	Negligible	**Specific Gravity:**	AP 0.823-0871
Evaporation Rate:	Slow; varies with conditions	**VOC:**	ND
Octanol/H2O Coeff.:	ND	**Flash Point:**	100 °F (38 °C) minimum
Flash Point Method:	PMCC	**Upper Flammability Limit (UFL):**	7.5
Lower Flammability Limit (LFL):	0.6	**Burning Rate:**	ND
Auto Ignition:	494°F (257°C)		

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources.

Incompatible Products

Keep away from strong oxidizers; Fluorel ®

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

* * * Section 11 - Toxicological Information * * *

Acute Toxicity

A: General Product Information

Harmful if swallowed.

B: Component Analysis - LD50/LC50

Fuel oil No. 2 (68476-30-2)

Oral LD50 Rat 12 g/kg; Dermal LD50 Rabbit 4720 µL/kg; Dermal LD50 Rabbit >2000 mg/kg; Inhalation LC50 Rat 4.6 mg/L 4 h

Naphthalene (91-20-3)

Inhalation LC50 Rat >340 mg/m3 1 h; Oral LD50 Rat 490 mg/kg; Dermal LD50 Rat >2500 mg/kg; Dermal LD50 Rabbit >20 g/kg

Product Mixture

Oral LD50 Rat 14.5 ml/kg; Dermal LD50 Rabbit >5 mL/kg; Guinea Pig Sensitization: negative; Primary dermal irritation: moderately irritating (Draize mean irritation score - 3.98 rabbits); Draize eye irritation: mildly irritating (Draize score, 48 hours, unwashed - 2.0 rabbits)

Potential Health Effects: Skin Corrosion Property/Stimulativeness

Practically non-toxic if absorbed following acute (single) exposure. May cause skin irritation with prolonged or repeated contact. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are repeatedly exposed.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

Contact with eyes may cause mild irritation.

Potential Health Effects: Ingestion

Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

Potential Health Effects: Inhalation

Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

WARNING: the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any skin sensitization effects.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects. Material of similar composition has been positive in a mutagenicity study.

Carcinogenicity

A: General Product Information

Suspected of causing cancer.

Dermal carcinogenicity: positive - mice

Studies have shown that similar products produce skin tumors in laboratory animals following repeated applications without washing or removal. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal's skin with soap and water between applications reduced tumor formation.

This product is similar to Diesel Fuel. IARC classifies whole diesel fuel exhaust particulates as probably carcinogenic to humans (Group 2A) and NIOSH regards it as a potential cause of occupational lung cancer based on animal studies and limited evidence in humans.

B: Component Carcinogenicity

Fuel oil No. 2 (68476-30-2)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans (listed under Diesel fuel)

Naphthalene (91-20-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen
NTP: Reasonably Anticipated To Be A Human Carcinogen (Possible Select Carcinogen)
IARC: Monograph 82 [2002] (Group 2B (possibly carcinogenic to humans))

Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any specific target organ general toxicity single exposure effects.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ general toxicity repeat exposure effects.

Aspiration Respiratory Organs Hazard

The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

* * * Section 12 - Ecological Information * * *

Ecotoxicity

A: General Product Information

Very toxic to aquatic life with long lasting effects. Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable, under Federal and State regulations.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Fuel oil No. 2 (68476-30-2)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	35 mg/L [flow-through]	

Naphthalene (91-20-3)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	5.74-6.44 mg/L [flow-through]	
96 Hr LC50 Oncorhynchus mykiss	1.6 mg/L [flow-through]	

96 Hr LC50 Oncorhynchus mykiss	0.91-2.82 mg/L [static]
96 Hr LC50 Pimephales promelas	1.99 mg/L [static]
96 Hr LC50 Lepomis macrochirus	31.0265 mg/L [static]
72 Hr EC50 Skeletonema costatum	0.4 mg/L
48 Hr LC50 Daphnia magna	2.16 mg/L
48 Hr EC50 Daphnia magna	1.96 mg/L [Flow through]
48 Hr EC50 Daphnia magna	1.09 - 3.4 mg/L [Static]

Persistence/Degradability

No information available.

Bioaccumulation

No information available.

Mobility in Soil

No information available.

* * * Section 13 - Disposal Considerations * * *

Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

Dispose of contents/container in accordance with local/regional/national/international regulations.

* * * Section 14 - Transportation Information * * *

IATA Information

Shipping Name: Heating oil, light
UN #: 1202 **Hazard Class:** 3 **Packing Group:** III

ICAO Information

Shipping Name: Heating oil, light
UN #: 1202 **Hazard Class:** 3 **Packing Group:** III

IMDG Information

Shipping Name: Heating oil, light
UN #: 1202 **Hazard Class:** 3 **Packing Group:** III

* * * Section 15 - Regulatory Information * * *

Regulatory Information

Component Analysis – Inventory

Component/CAS	EC #	EEC	CAN	TSCA
Fuel oil No. 2 68476-30-2	270-671-4	EINECS	DSL	Yes
Naphthalene 91-20-3	202-049-5	EINECS	DSL	Yes

* * * Section 16 - Other Information * * *

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

Literature References

None

Other Information

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

End of Sheet

Safety Data Sheet - Version 5.0

Preparation Date 9/15/2015
Latest Revision Date (If Revised)
SDS Expiry Date 9/13/2018

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Chemical Name γ-Chlordane

Catalogue # C327040

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Uses To be used only for scientific research and development. Not for use in humans or animals.

1.3 Details of the Supplier of the Safety Data Sheet

Company Toronto Research Chemicals
2 Brisbane Road
Toronto, ON M3J 2J8
CANADA

Telephone +14166659696
FAX +14166654439
Email orders@trc-canada.com

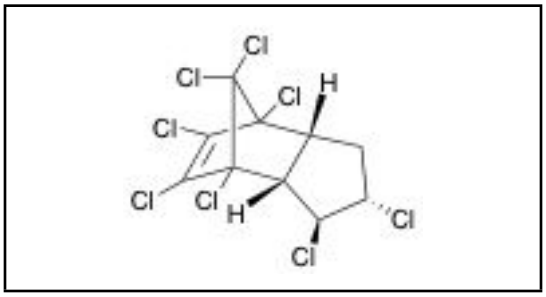

1.4 Emergency Telephone Number

Emergency# +14166659696 between 0800-1700 (GMT-5)

2. HAZARDS IDENTIFICATION

WHMIS Classification (Canada)

D2A Very Toxic Material Causing Other Toxic Effects
Carcinogen

WHMIS Symbols (Canada)

2.1/2.2 Classification of the Substance or Mixture and Label Elements

GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Acute Toxicity, Oral (Category 4)
Carcinogenicity (Category 2)
Hazardous to the Aquatic Environment, Acute Hazard (Category 1)

EU Classification (According to EU Regulation 67/548/EEC)

Harmful if swallowed. May cause cancer. Very toxic to aquatic organisms.

EU Risk and Safety Statements (According to EU Regulation 67/548/EEC)

Hazard Statements	Hazard Codes
Harmful	Xn
Environmental Hazard	N

Risk Codes and Phrases

R22	Harmful if swallowed.
R45	May cause cancer.
R50	Very toxic to aquatic organisms.

Safety Precaution Codes and Phrases

S61	Avoid release to the environment. Refer to special instructions.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Signal Word Warning

GHS Hazard Statements

H302	Harmful if swallowed.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.

GHS Precautionary Statements

P273	Avoid release to the environment.
P281	Use personal protective equipment as required.

2.3 Unclassified Hazards/Hazards Not Otherwise Classified

No data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Molecular Formula: $C_{10}H_6Cl_8$ **Molecular Weight:** 409.78

CAS Registry #: 5103-74-2 **EC#:** 225-826-0

Synonyms

(1R,2R,3aS,4S,7R,7aS)-rel-1,2,4,5,6,7,8,8-Octachloro-2,3,3a,4,7,7a-hexahydro-,4,7-methano-1H-indene; (1α,2β,3aα,4β,7β,7aα)-1,2,4,5,6,7,8,8-Octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene; 1β,2α,4α,5,6,7α,8,8-Octachloro-3aβ,4,7,7aβ-tetrahydro4,7-methanoindan; (±)-trans-Chlordane; trans-Chlordan; trans -1,2,4,5,6,7,8,8-Octachloro-3a,4,7,7a-tetrahydro-4,7-endo-methanoindan; trans-Chlordan; trans-Chlordane; β-Chlordan; β-Chlordane;

3.2 Mixtures

Not a mixture.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice

If medical attention is required, show this safety data sheet to the doctor.

If Inhaled

If inhaled, move person to fresh air. If not breathing, give artificial respiration and consult a physician.

In Case of Skin Contact

Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed.

In Case of Eye Contact

Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a physician.

If Swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No data available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing Media

Conditions of flammability
Not flammable or combustible.

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.2 Special Hazards Arising from the Substance or Mixture
Carbon oxides, Hydrogen chloride

5.3 Advice for Firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further Information
No data available.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage
Keep container tightly closed in a dry and well-ventilated place.
Keep in a dry place.

Storage conditions: No Data Available

7.3 Specific End Uses
For scientific research and development only. Not for use in humans or animals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters
Contains no components with established occupational exposure limits.

8.2 Exposure Controls

Appropriate Engineering Controls
A laboratory fumehood or other appropriate form of local exhaust ventilation should be used to avoid exposure.

Personal Protective Equipment
All recommendations below are advisory in nature and a risk assessment should be performed by the employer/end user prior to use of this product. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

Eye/Face Protection
Safety goggles or face shield. All equipment should have been tested and approved under appropriate standards, such as NIOSH (US), CSA (Canada), or EN 166 (EU).

Skin Protection
Gloves should be used when handling this material. Gloves are to be inspected prior to use. Contaminated gloves are to be removed using proper glove removal technique so that the outer surface of the glove does not contact bare skin. Dispose of contaminated gloves after use in compliance with good laboratory practices and local requirements.

Gloves used for incidental exposures (splash protection) should be designated as “chemical resistant” by EU standard EN 374 with the resistance codes corresponding to the anticipated use of the material. Unrated gloves are not recommended.
Suggested gloves: AnsellPro Sol-Vex nitrile gloves style 37-175, 15 mil thickness.
Penetration time has not been determined.

Gloves used for prolonged direct exposure (immersion) should be designated “chemical resistant” as per EN 734 with the resistance codes corresponding to the anticipated use of the material.
Suggested gloves: AnsellPro Viton/Butyl gloves style 38-612, 4/8 mil thickness.
Penetration time has not been determined.

These recommendations may not apply if the material is mixed with any other chemical, or dissolved into a solution. A risk assessment must be performed to ensure the gloves will still offer acceptable protection.

Body Protection
Fire resistant (Nomex) coveralls or chemical-resistant bodysuit (laminated Tychem SL or equivalent).

Respiratory Protection
Recommended respirators are NIOSH-approved N100 or CEN-approved FFP3 particulate respirators. These are to be only used as a backup to local exhaust ventilation or other engineering controls. If the respirator is the only means of protection, a full-face supplied air respirator must be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

A) Appearance
No Data Available

B) Odour
odourless

C) Odour Threshold
No data available.

D) pH
No data available.

E) Melting Point/Freezing Point
No Data Available

F) Initial Boiling Point/Boiling Range
No data available.

G) Flash point
No data available.

H) Evaporation Rate
No data available.

I) Flammability (Solid/Gas)
No data available.

J) Upper/Lower Flammability/Explosive Limits
No data available.

K) Vapour Pressure
No data available.

L) Vapour Density
No data available.

M) Relative Density
1.590 g/cm3

N) Solubility
No Data Available

O) Partition Coefficient: n-octanol/water
No data available.

P) Auto-Ignition Temperature
No data available.

Q) Decomposition Temperature
No data available.

R) Viscosity
No data available.

S) Explosive Properties
No data available.

T) Oxidizing Properties
No data available.

9.2 Other Information
no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available.

10.2 Chemical Stability
Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions
No data available.

10.4 Conditions to Avoid
No data available.

10.5 Incompatible Materials

Strong oxidizing agents.

10.6 Hazardous Decomposition Products

Other decomposition products: No data available. In the event of fire: see section 5.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

A) Acute Toxicity

Oral LD50: Mouse - 275 mg/kg
Rat - 1,100 mg/kg

Inhalation LC50: No data available.
Dermal LD50: No data available.

B) Skin Corrosion/Irritation

No data available

C) Serious Eye Damage/Irritation

No data available

D) Respiratory or Skin Sensitization

No data available

E) Germ Cell Mutagenicity

No data available

F) Carcinogenicity

Evidence of a carcinogenic effect.
This compound has been designated by the IARC as Group 2B: Possibly carcinogenic to humans.

G) Reproductive Toxicity/Teratogenicity

No data available

H) Single Target Organ Toxicity - Single Exposure

No data available

I) Single Target Organ Toxicity - Repeated Exposure

No data available

J) Aspiration Hazard

No data available

K) Potential Health Effects and Routes of Exposure

Inhalation
May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion
Harmful if swallowed.

Skin
Harmful if absorbed through skin. May cause skin irritation.

Eyes
May cause eye irritation.

L) Signs and Symptoms of Exposure

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated.

M) Additional Information

RTECS: PC0365000

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish:
LC50 - Lepomis macrochirus - 0.05 mg/l - 96 h

12.2 Persistance and Degradability

No data available.

12.3 Bioaccumulative Potential

No data available.

12.4 Mobility in Soil

No data available.

12.5 Results of PBT and vPvB Assessment

No data available.

12.6 Other Adverse Effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

A) Product

Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.

B) Contaminated Packaging

Dispose of as above.

C) Other Considerations

Product is not to be disposed of in sanitary sewers, storm sewers, or landfills.

14. TRANSPORT INFORMATION

14.1 UN Number

DOT (US): UN3077 IATA: UN3077 IMDG: UN3077 ADR/RID: UN3077

14.2 UN Proper Shipping Name

DOT (US)/IATA:
Environmentally hazardous substances, solid, n.o.s. (trans-Chlordane)

IMDG/ARD/RID:
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (trans-Chlordane)

14.3 Transport Hazard Class(es)

DOT (US): 9 IATA: 9 IMDG: 9 ADR/RID: 9

14.4 Packing Group

DOT (US): III IATA: III IMDG: III ADR/RID: III

14.5 Environmental Hazards

DOT (US): None IATA: None IMDG: Marine pollutant ADR/RID: None

14.6 Special Precautions for User

None

15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of WHMIS (Canada), OSHA 1910.1200 (US), and EU Regulation EC No. 1907/2006 (European Union).

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

A) Canada

DSL/NDSL Status: This product is not listed on the Canadian DSL/NDSL.

B) United States

TSCA Status: This product is not listed on the US EPA TSCA.

C) European Union

ECHA Status: This product is not registered with the EU ECHA.

15.2 Chemical Safety Assessment

No data available

16. OTHER INFORMATION

16.1 Revision History

Original Publication Date: 9/15/2015

16.2 List of Abbreviations

LD50	Median lethal dose of a substance required to kill 50% of a test population.
LC50	Medial lethal concentration of a substance required to kill 50% of a test population.
LDLo	Lowest known lethal dose
TDLo	Lowest known toxic dose
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances

16.3 Further Information

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believed to be correct to the best of our knowledge, but is to be only used as a guide. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Please take all due care when handling this product.

SAFETY DATA SHEET

SDS ID NO.: 0127MAR019
Revision Date: 06/01/2016

1. IDENTIFICATION

Product Name: Marathon Petroleum Gasoline - All Grades

Synonym: Gasoline; Regular Unleaded Gasoline; Conventional Regular Unleaded Gasoline; Mid Grade Unleaded Gasoline; Conventional Mid Grade Unleaded Gasoline; Premium Unleaded Gasoline; Conventional Premium Unleaded Gasoline; Sub-Octane Gasoline; Regular RBOB; Super RBOB; Premium RBOB; RBOB; Reformulated Blend Stock For Oxygenated Blending; 84 Octane Gasoline; CBOB; Premium CBOB; Conventional Blend Stock for Oxygenate Blending; Recreational Gasoline; Recreational Gasoline; Recreational Unleaded Gasoline; 89 Recreational Gasoline; Brand 89 Recreational Gasoline; 7.0 Max RVP 89 Recreational Gasoline; BR 7.0 Max RVP 89 Recreational Gasoline; 90 Recreational Gasoline; 90 Marina Gasoline; Brand 91 Recreational Gasoline; 91 Recreational Gasoline; 91 Marina Gasoline; 90 Octane Midgrade Gasoline with No Ethanol; 0125MAR019; 0126MAR019; 0134MAR019; 0313MAR019; 0314MAR019

Chemical Family: Complex Hydrocarbon Substance

Recommended Use: Fuel.
Restrictions on Use: All others.

Manufacturer, Importer, or Responsible Party Name and Address:

MARATHON PETROLEUM COMPANY LP
539 South Main Street
Findlay, OH 45840

SDS information: 1-419-421-3070

Emergency Telephone: 1-877-627-5463

2. HAZARD IDENTIFICATION

Classification

OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 1
Skin corrosion/irritation	Category 2
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1B
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2

Hazards Not Otherwise Classified (HNOC)

Static accumulating flammable liquid

Label elements

EMERGENCY OVERVIEW

Danger

EXTREMELY FLAMMABLE LIQUID AND VAPOR
May accumulate electrostatic charge and ignite or explode
May be fatal if swallowed and enters airways
Causes skin irritation
May cause respiratory irritation
May cause drowsiness or dizziness
May cause genetic defects
May cause cancer
Suspected of damaging fertility or the unborn child
Toxic to aquatic life with long lasting effects

Appearance Clear yellow liquid **Physical State** Liquid **Odor** Hydrocarbon

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Use only non-sparking tools.
Take precautionary measures against static discharge
Avoid breathing mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection
Wash hands and any possibly exposed skin thoroughly after handling
Avoid release to the environment

Precautionary Statements - Response
IF exposed or concerned: Get medical attention
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
If skin irritation occurs: Get medical attention
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor if you feel unwell
IF SWALLOWED: Immediately call a POISON CENTER or doctor
Do NOT induce vomiting
In case of fire: Use water spray, fog or regular foam for extinction
Collect spillage

Precautionary Statements - Storage
Store in a well-ventilated place. Keep container tightly closed
Keep cool
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container at an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Gasoline is a complex combination of hydrocarbons consisting of paraffins, cycloparaffins, aromatic and olefinic hydrocarbons having molecular chains ranging in length from four to ten carbons. May contain small amounts of dye and other additives (>0.02%) which are not considered hazardous at the concentrations used.

Composition Information:

Name	CAS Number	% Concentration
Gasoline	86290-81-5	100
Heptane (mixed isomers)	142-82-5	2.5-26
Pentane (mixed isomers)	78-78-4	6.5-19
Butane (mixed isomers)	106-97-8	0.5-14
Hexane Isomers (other than n-Hexane)	107-83-5	2-12
Toluene	108-88-3	3-9.5
Xylene (mixed isomers)	1330-20-7	3.5-9.5
n-Hexane	110-54-3	0.1-4.5
Cumene	98-82-8	0-4
1,2,4 Trimethylbenzene	95-63-6	1-4
Ethylbenzene	100-41-4	0.5-2.5
Benzene	71-43-2	0.1-1.5
Cyclohexane	110-82-7	0-1.5
Octane	111-65-9	0-1.5
1,2,3-trimethylbenzene	526-73-8	0-1
Naphthalene	91-20-3	0.1-0.5

All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

4. FIRST AID MEASURES

First Aid Measures

General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show directions for use or safety data sheet if possible).

Inhalation: Remove to fresh air. If not breathing, institute rescue breathing. If breathing is difficult, ensure airway is clear, give oxygen and continue to monitor. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). Keep affected person warm and at rest. If symptoms occur get medical attention.

Skin Contact: Immediately wash exposed skin with plenty of soap and water while removing contaminated clothing and shoes. May be absorbed through the skin in harmful amounts. Get medical attention if irritation persists. Any injection injury from high pressure equipment should be evaluated immediately by a physician as potentially serious (See NOTES TO PHYSICIAN).

Place contaminated clothing in closed container until cleaned or discarded. If clothing is to be laundered, inform the person performing the operation of contaminant's hazardous properties. Destroy contaminated, non-chemical resistant footwear.

Eye Contact: Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Gently remove contacts while flushing. Get medical attention if irritation persists.

Ingestion: Do not induce vomiting because of danger of aspirating liquid into lungs, causing serious damage and chemical pneumonitis. If spontaneous vomiting occurs, keep head below hips, or if patient is lying down, turn body and head to side to prevent aspiration and monitor for breathing difficulty. Never give anything by mouth to an unconscious person. Keep affected person warm and at rest. GET IMMEDIATE MEDICAL ATTENTION.

Most important signs and symptoms, both short-term and delayed with overexposure

Adverse Effects: Irritating to the skin and mucous membranes. Symptoms may include redness, itching, and inflammation. May cause nausea, vomiting, diarrhea, and signs of nervous system depression: headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue. Aspiration hazard. May cause coughing, chest pains, shortness of breath, pulmonary edema and/or chemical pneumonitis. Repeated or prolonged skin contact may cause drying, reddening, itching and cracking.

Indication of any immediate medical attention and special treatment needed

Notes To Physician: INHALATION: This material (or a component) sensitizes the myocardium to the effects of sympathomimetic amines. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in individuals exposed to this material. Administration of sympathomimetic drugs should be avoided.

SKIN: Leaks or accidents involving high-pressure equipment may inject a stream of material through the skin and initially produce an injury that may not appear serious. Only a small puncture wound may appear on the skin surface but, without proper treatment and depending on the nature, original pressure, volume, and location of the injected material, can compromise blood supply to an affected body part. Prompt surgical debridement of the wound may be necessary to prevent irreversible loss of function and/or the affected body part. High pressure injection injuries may be SERIOUS SURGICAL EMERGENCIES.

INGESTION: This material represents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFF/ATC) can be used. Firefighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

Unsuitable extinguishing media
Do not use straight water streams to avoid spreading fire.

Specific hazards arising from the chemical
This product has been determined to be an extremely flammable liquid per the OSHA Hazard Communication Standard and should be handled accordingly. May accumulate electrostatic charge and ignite or explode. Vapors may travel along the ground or be moved by ventilation and ignited by many sources such as pilot lights, sparks, electric motors, static discharge, or other ignition sources at locations distant from material handling. Flashback can occur along vapor trail. For additional fire related information, see NFPA 30 or the Emergency Response Guidebook 128.

Hazardous combustion products
Smoke, carbon monoxide, and other products of incomplete combustion.

Explosion data
Sensitivity to Mechanical Impact No.
Sensitivity to Static Discharge Yes.

Special protective equipment and precautions for firefighters
Firefighters should wear full protective clothing and positive-pressure self-contained breathing apparatus (SCBA) with a full face-piece, as appropriate. Avoid using straight water streams. Water may be ineffective in extinguishing low flash point fires, but can be used to cool exposed surfaces. Avoid excessive water spray application. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Keep run-off water out of sewers and water sources.

Additional firefighting tactics
FIRES INVOLVING TANKS OR CAR/TRAILER LOADS: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after the fire is out. Do not direct water at source of leak or safety devices; icing may occur. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles: if this is impossible, withdraw from area and let fire burn.

EVACUATION: Consider initial downwind evacuation for at least 1000 feet. If tank, rail car or tank truck is involved in a fire, ISOLATE for 5280 feet (1 mile) in all directions; also, consider initial evacuation of 5280 feet (1 mile) in all directions.

NFPA	Health 1	Flammability 3	Instability 0	Special Hazard -

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Eliminate all ignition sources.
Protective equipment:	Use personal protection measures as recommended in Section 8.
Emergency procedures:	Advise authorities and National Response Center (800-424-8802) if the product has entered a water course or sewer. Notify local health and pollution control agencies, if appropriate.
Environmental precautions:	Avoid release to the environment. Avoid subsoil penetration. Ethanol in gasoline phase seperates in contact with water. Monitor downstream for dissolved ethanol or other appropriate indicators.
Methods and materials for containment:	Contain liquid with sand or soil. Prevent spilled material from entering storm drains, sewers, and open waterways.
Methods and materials for cleaning up:	Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids. Recover and return free product to proper containers. When recovering free liquids ensure all equipment is grounded and bonded. Use only non-sparking tools.

7. HANDLING AND STORAGE

Safe Handling Precautions:

NEVER SIPHON THIS PRODUCT BY MOUTH. Use appropriate grounding and bonding practices. Static accumulating flammable liquid. Bonding and grounding may be insufficient to eliminate the hazard from static electricity. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. Vapors may travel along the ground or be moved by ventilation. Flashback may occur along vapor trails. No smoking. Use only non-sparking tools. Avoid contact with skin, eyes and clothing. Avoid breathing fumes, gas, or vapors. Use only with adequate ventilation. Avoid repeated and prolonged skin contact. Use personal protection measures as recommended in Section 8. Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water. Do not cut, drill, grind or weld on empty containers since explosive residues may remain. Refer to applicable EPA, OSHA, NFPA and consistent state and local requirements.

Hydrocarbons are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering, pumping at high flow rates or loading and transfer operations. If this charge reaches a sufficiently high level, sparks can form that may ignite the vapors of flammable liquids. Sudden release of hot organic chemical vapors or mists from process equipment operating under elevated temperature and pressure, or sudden ingress of air into vacuum equipment may result in ignition of vapors or mists without the presence of obvious ignition sources. Nozzle spouts must be kept in contact with the containers or tank during the entire filling operation.

Portable containers should never be filled while in or on a motor vehicle or marine craft. Containers should be placed on the ground. Static electric discharge can ignite fuel vapors when filling non-grounded containers or vehicles on trailers. The nozzle spout must be kept in contact with the container before and during the entire filling operation. Use only approved containers.

A buildup of static electricity can occur upon re-entry into a vehicle during fueling especially in cold or dry climate conditions. The charge is generated by the action of dissimilar fabrics (i.e., clothing and upholstery) rubbing across each other as a person enters/exits the vehicle. A flash fire can result from this discharge if sufficient flammable vapors are present. Therefore, do not get back in your vehicle while refueling.

Cellular phones and other electronic devices may have the potential to emit electrical charges (sparks). Sparks in potentially explosive atmospheres (including fueling areas such as gas stations) could cause an explosion if sufficient flammable vapors are present. Therefore, turn off cellular phones and other electronic devices when working in potentially explosive atmospheres or keep devices inside your vehicle during refueling.

High-pressure injection of any material through the skin is a serious medical emergency even though the small entrance wound at the injection site may not initially appear serious. These injection injuries can occur from high-pressure equipment such as paint spray or grease or guns, fuel injectors, or pinhole leaks in hoses or hydraulic lines and should all be considered serious. High pressure injection injuries may be SERIOUS SURGICAL EMERGENCIES (See First Aid Section 4).

Storage Conditions:

Store in properly closed containers that are appropriately labeled and in a cool, well-ventilated area. Do not store near an open flame, heat or other sources of ignition.

Incompatible Materials

Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	ACGIH TLV	OSHA PELS:	OSHA - Vacated PELs	NIOSH IDLH
Gasoline 86290-81-5	300 ppm TWA 500 ppm STEL	-	300 ppm TWA 900 mg/m^3 TWA 500 ppm STEL 1500 mg/m^3 STEL	-

Heptane (mixed isomers) 142-82-5	400 ppm TWA 500 ppm STEL	TWA: 500 ppm TWA: 2000 mg/m³	400 ppm TWA 1600 mg/m³ TWA 500 ppm STEL 2000 mg/m³ STEL	750 ppm
Pentane (mixed isomers) 78-78-4	1000 ppm TWA	-	-	-
Butane (mixed isomers) 106-97-8	1000 ppm STEL	-	800 ppm TWA 1900 mg/m³ TWA	-
Hexane Isomers (other than n-Hexane) 107-83-5	500 ppm TWA 1000 ppm STEL	-	500 ppm TWA 1800 mg/m³ TWA 1000 ppm STEL 3600 mg/m³ STEL	-
Toluene 108-88-3	20 ppm TWA	TWA: 200 ppm Ceiling: 300 ppm	100 ppm TWA 375 mg/m³ TWA 150 ppm STEL 560 mg/m³ STEL	500 ppm
Xylene (mixed isomers) 1330-20-7	100 ppm TWA 150 ppm STEL	TWA: 100 ppm TWA: 435 mg/m³	100 ppm TWA 435 mg/m³ TWA 150 ppm STEL 655 mg/m³ STEL	900 ppm
n-Hexane 110-54-3	50 ppm TWA Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 500 ppm TWA: 1800 mg/m³	50 ppm TWA 180 mg/m³ TWA	1100 ppm
Cumene 98-82-8	50 ppm TWA	TWA: 50 ppm TWA: 245 mg/m³ Skin	50 ppm TWA 245 mg/m³ TWA Limit applies to skin	900 ppm
1,2,4 Trimethylbenzene 95-63-6	25 ppm TWA	-	25 ppm TWA 125 mg/m³ TWA	-
Ethylbenzene 100-41-4	20 ppm TWA	TWA: 100 ppm TWA: 435 mg/m³	100 ppm TWA 435 mg/m³ TWA 125 ppm STEL 545 mg/m³ STEL	800 ppm
Benzene 71-43-2	0.5 ppm TWA 2.5 ppm STEL Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 10 ppm (applies to industry segments exempt from the benzene standard) TWA: 1 ppm STEL: 5 ppm (see 29 CFR 1910.1028)	25 ppm Ceiling 1 ppm TWA 5 ppm STEL	500 ppm
Cyclohexane 110-82-7	100 ppm TWA	TWA: 300 ppm TWA: 1050 mg/m³	300 ppm TWA 1050 mg/m³ TWA	1300 ppm
Octane 111-65-9	300 ppm TWA	TWA: 500 ppm TWA: 2350 mg/m³	300 ppm TWA 1450 mg/m³ TWA 375 ppm STEL 1800 mg/m³ STEL	1000 ppm
1,2,3-trimethylbenzene 526-73-8	25 ppm TWA	-	25 ppm TWA 125 mg/m³ TWA	-
Naphthalene 91-20-3	10 ppm TWA Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 10 ppm TWA: 50 mg/m³	10 ppm TWA 50 mg/m³ TWA 15 ppm STEL 75 mg/m³ STEL	250 ppm

Notes: The manufacturer has voluntarily elected to provide exposure limits contained in OSHA's 1989 air contaminants standard in its SDSs, even though certain of those exposure limits were vacated in 1992.

Engineering measures: Local or general exhaust required in an enclosed area or when there is inadequate ventilation. Use mechanical ventilation equipment that is explosion-proof.

Personal protective equipment

Eye protection:	Use goggles or face-shield if the potential for splashing exists.
Skin and body protection:	Use nitrile rubber, Viton® or PVA gloves for repeated or prolonged skin exposure. Glove suitability is based on workplace conditions and usage. Contact the glove manufacturer for specific advice on glove selection and breakthrough times.
Respiratory protection:	Use a NIOSH approved organic vapor chemical cartridge or supplied air respirators when there is the potential for airborne exposures to exceed permissible exposure limits or if excessive vapors are generated. Observe respirator assigned protection factors (APFs) criteria cited in federal OSHA 29 CFR 1910.134. Self-contained breathing apparatus should be used for fire fighting.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Clear yellow liquid
Color	Yellow
Odor	Hydrocarbon
Odor Threshold	No data available.

Property	**Values (Method)**
Melting Point / Freezing Point	No data available.
Initial Boiling Point / Boiling Range	24-210 °C / 75-410 °F (ASTM D86)
Flash Point	-43 °C / -45 °F
Evaporation Rate	No data available.
Flammability (solid, gas)	Not applicable.
Flammability Limit in Air (%):	
Upper Flammability Limit:	7.6
Lower Flammability Limit:	1.4
Explosion limits:	No data available.
Vapor Pressure	5.5-15 psi (ASTM D4814)
Vapor Density	3-4
Specific Gravity / Relative Density	0.70-0.76
Water Solubility	No data available.
Solubility in other solvents	No data available.
Partition Coefficient	2.13-4.5
Decomposition temperature	No data available.
pH:	Not applicable
Autoignition Temperature	280 °C / 536 °F
Kinematic Viscosity	No data available.
Dynamic Viscosity	No data available.
Explosive Properties	No data available.
VOC Content (%)	100%
Density	No data available.
Bulk Density	Not applicable.

10. STABILITY AND REACTIVITY

Reactivity	The product is non-reactive under normal conditions.
Chemical stability	The material is stable at 70°F, 760 mmHg pressure.
Possibility of hazardous reactions	None under normal processing.
Hazardous polymerization	Will not occur.

Conditions to avoid Excessive heat, sources of ignition, open flame.

Incompatible Materials Strong oxidizing agents.

Hazardous decomposition products None known under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Potential short-term adverse effects from overexposures

Inhalation May cause irritation of respiratory tract. May cause drowsiness or dizziness. Breathing high concentrations of this material in a confined space or by intentional abuse can cause irregular heartbeats which can cause death.

Eye contact Exposure to vapor or contact with liquid may cause mild eye irritation, including tearing, stinging, and redness.

Skin contact Causes skin irritation. Effects may become more serious with repeated or prolonged contact. May be absorbed through the skin in harmful amounts.

Ingestion May be fatal if swallowed or vomited and enters airways. May cause irritation of the mouth, throat and gastrointestinal tract.

Acute toxicological data

Name	Oral LD50	Dermal LD50	Inhalation LC50
Gasoline 86290-81-5	14000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Heptane (mixed isomers) 142-82-5	-	3000 mg/kg (Rabbit)	103 g/m^3 (Rat) 4 h
Pentane (mixed isomers) 78-78-4	-	-	450 mg/L (Mouse) 2 h
Butane (mixed isomers) 106-97-8	-	-	658 mg/L (Rat) 4 h
Hexane Isomers (other than n-Hexane) 107-83-5	> 5000 mg/kg (Rat)	-	-
Toluene 108-88-3	> 2000 mg/kg (Rat)	8390 mg/kg (Rabbit)	12.5 mg/L (Rat) 4 h
Xylene (mixed isomers) 1330-20-7	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.04 mg/L (Rat) 4 h
n-Hexane 110-54-3	15000 mg/kg (Rat)	3000 mg/kg (Rabbit)	48000 ppm (Rat) 4 h
Cumene 98-82-8	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 20 mg/L (Rat) 6 h
1,2,4 Trimethylbenzene 95-63-6	3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	18,000 mg/m^3 (Rat) 4 h
Ethylbenzene 100-41-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	17.2 mg/L (Rat) 4 h
Benzene 71-43-2	> 2000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 20 mg/l (Rat) 4 h
Cyclohexane 110-82-7	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	13.9 mg/L (Rat) 4 h
Octane 111-65-9	-	-	118 g/m^3 (Rat) 4 h
1,2,3-trimethylbenzene 526-73-8	-	-	-
Naphthalene 91-20-3	490 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 340 mg/m^3 (Rat) 1 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

NAPHTHAS: In a large epidemiological study on over 15,000 employees at several petroleum refineries and amongst residents located near these refineries, no increased risk of kidney cancer was observed in association with gasoline exposures (a similar material). In a similar study, no increased risk of kidney cancer was observed among petroleum refinery workers, but there was a slight trend in the incidence of kidney cancers among service station employees, especially after a 30-year latency period. Altered mental state, drowsiness, peripheral motor neuropathy, irreversible brain damage (so-called Petrol Sniffer's Encephalopathy), delirium, seizures, and sudden death have been reported from repeated overexposure to some hydrocarbon solvents, naphthas, and gasoline.

ISOPARAFFINS: Studies in laboratory animals have shown that long-term exposure to similar materials (isoparaffins) can cause kidney damage and kidney cancer in male laboratory rats. However, in-depth research indicates that these findings are unique to the male rat, and that these effects are not relevant to humans.

C9 AROMATIC HYDROCARBONS: A developmental inhalation study was conducted in laboratory mice. Increased implantation losses, reduced fetal weights, delayed ossification and an increased incidence of cleft palate were observed at the highest exposure level (1,500 ppm). This exposure level was extremely toxic to pregnant female mice (44% mortality). Reduced fetal body weights were also observed at 500 ppm. A multi-generation reproduction inhalation study was conducted in laboratory rats. Reductions in pup weights, pup weight gain, litter size, and pup survival were observed at 1,500 ppm, an exposure level at which significant maternal toxicity was observed. Reduced pup weight gain was also observed at 500 ppm.

PENTANES: Studies of pentane isomers in laboratory animals indicate exposure to extremely high levels (roughly 10 vol.%) may induce cardiac arrhythmias (irregular heartbeats) which may be serious or fatal.

BUTANES: Studies in laboratory animals indicate exposure to extremely high levels of butanes (1-10 or higher vol.% in air) may cause cardiac arrhythmias (irregular heartbeats) which may be serious or fatal.

TOLUENE: Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects. Abuse of toluene at high concentrations (e.g., glue sniffing and solvent abuse) has been associated with adverse effects on the liver, kidney and nervous system, and can cause CNS depression, cardiac arrhythmias, and death. Studies of workers indicate longterm exposure may be related to impaired color vision and hearing. Some studies of workers suggest longterm exposure may be related to neurobehavioral and cognitive changes. Some of these effects have been observed in laboratory animals following repeated exposure to high levels of toluene. Several studies of workers suggest longterm exposure may be related to small increases in spontaneous abortions and changes in some gonadotropic hormones. However, the weight of evidence does not indicate toluene is a reproductive hazard to humans. Studies in laboratory animals indicate some changes in reproductive organs following high levels of exposure, but no significant effects on mating performance or reproduction were observed. Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects. Findings in laboratory animals have been largely negative. Positive findings include small increases in minor skeletal and visceral malformations and developmental delays following very high levels of maternal exposure. Studies of workers indicate long-term exposure may be related to effects on the liver, kidney and blood, but these appear to be limited to changes in serum enzymes and decreased leukocyte counts. Adverse effects on the liver, kidney, thymus and nervous system were observed in animal studies following very high levels of exposure. The relevance of these findings to humans is not clear at this time.

XYLENES, ALL ISOMERS: Overexposure to xylene may cause upper respiratory tract irritation, headache, cyanosis, blood serum changes, nervous system damage and narcosis. Effects may be increased by the use of alcoholic beverages. Evidence of liver and kidney impairment were reported in workers recovering from a gross overexposure. Effects from Prolonged or Repeated Exposure: Impaired neurological function was reported

in workers exposed to solvents including xylene. Studies in laboratory animals have shown evidence of impaired hearing following high levels of exposure. Studies in laboratory animals suggest some changes in reproductive organs following high levels of exposure but no significant effects on reproduction were observed. Studies in laboratory animals indicate skeletal and visceral malformations, developmental delays, and increased fetal resorptions following extremely high levels of maternal exposure with evidence of maternal toxicity. The relevance of these observations to humans is not clear at this time. Adverse effects on the liver, kidney, bone marrow (changes in blood cell parameters) were observed in laboratory animals following high levels of exposure. The relevance of these observations to humans is not clear at this time.

1,2,4-TRIMETHYLBENZENE: The following information pertains to a mixture of C9 aromatic hydrocarbons, over 40% of which was composed of 1,2,4-trimethylbenzene. A developmental inhalation study was conducted in laboratory mice. Increased implantation losses, reduced fetal weights, delayed ossification and an increased incidence of cleft palate were observed at the highest exposure level (1,500 ppm). This exposure level was extremely toxic to pregnant female mice (44% mortality). Reduced fetal body weights were also observed at 500 ppm. A multi-generation reproduction inhalation study was conducted in laboratory rats. Reductions in pup weights, pup weight gain, litter size, and pup survival were observed at 1,500 ppm, an exposure level at which significant maternal toxicity was observed. Reduced pup weight gain was also observed at 500 ppm. Embryotoxicity has been reported in studies of laboratory animals. Adverse effects included increased implantation losses, reduced fetal weights, delayed ossification and an increased incidence of cleft palate.<n><n>

N-HEXANE: Long-term or repeated exposure to n-hexane can cause peripheral nerve damage. Initial symptoms are numbness of the fingers and toes. Also, motor weakness can occur in the digits, but may also involve muscles of the arms, thighs and forearms. The onset of these symptoms may be delayed for several months to a year after the beginning of exposure. Testicular atrophy and partial to full loss of the germ cell line were observed in sub-chronic high-dose inhalation studies of laboratory rodents. These effects appeared irreversible. Rodent reproduction studies have shown evidence of reduced fetal weight but no frank malformations.

CUMENE: Overexposure to cumene may cause upper respiratory tract irritation and CNS depression. Studies in laboratory animals indicate evidence of respiratory tract hyperplasia, and adverse effects on the liver, kidney and adrenal glands following high level exposure. The relevance of these findings to humans is not clear at this time. Findings from lifetime laboratory rodent inhalation studies were as follows: In F344/N rats: an increased incidence of renal carcinomas and adenomas, respiratory epithelial adenomas, and interstitial cell adenomas of the testes. In B6C3F1 mice: an increased incidence of carcinomas and adenomas of the bronchi and lung, liver neoplasms, hemangiosarcomas of the spleen, and adenomas of the thyroid.

ETHYLBENZENE: Findings from a 2-year inhalation study in rodents conducted by NTP were as follows: Effects were observed only at the highest exposure level (750 ppm). At this level the incidence of renal tumors was elevated in male rats (tubular carcinomas) and female rats (tubular adenomas). The incidence of tumors was also elevated in male mice (alveolar and bronchiolar carcinomas) and female mice (hepatocellular carcinomas). IARC has classified ethyl benzene as "possibly carcinogenic to humans" (Group 2B). Studies in laboratory animals indicate some evidence of post-implantation deaths following high levels of maternal exposure. The relevance of these findings to humans is not clear at this time. Studies in laboratory animals indicate limited evidence of renal malformations, resorptions, and developmental delays following high levels of maternal exposure with evidence of maternal toxicity. The relevance of these findings to humans is not clear at this time. Studies in laboratory animals have demonstrated evidence of ototoxicity (hearing loss) following exposure levels as low as 300 ppm for 5 days. Studies in laboratory animals indicate some evidence of adverse effects on the liver, kidney, thyroid, and pituitary gland.

BENZENE: Studies of workers exposed to benzene show clear evidence that overexposure can cause cancer and other diseases of the blood forming organs including Acute

Myelogenous Leukemia (AML), and Aplastic Anemia (AA), an often fatal disease. Some studies suggest overexposure to benzene may also be associated with Myelodysplastic Syndrome (MDS). Findings from a case control study of workers exposed to benzene was reported during the 2009 Benzene Symposium in Munich included an increase in Acute Myeloid Leukemias and Non-Hodgkins Lymphoid Neoplasms (NHLN) of the subtype follicular lymphoma (FL) in some occupational categories. Some studies of workers exposed to benzene have shown an association with increased rates of chromosome aberrations in circulating lymphocytes. One study of women workers exposed to benzene suggested a weak association with irregular menstruation. However, other studies of workers exposed to benzene have not demonstrated clear evidence of an effect on fertility or reproductive outcome in humans. Benzene can cross the placenta and affect the developing fetus. Cases of AA have been reported in the offspring of persons severely overexposed to benzene. Studies in laboratory animals indicate that prolonged, repeated exposure to high levels of benzene vapor can cause bone marrow suppression and cancer in multiple organ systems. Studies in laboratory animals show evidence of adverse effects on male reproductive organs following high levels of exposure but no significant effects on reproduction have been observed. Embryotoxicity has been reported in studies of laboratory animals but effects were limited to reduced fetal weight and minor skeletal variations. Benzene has been classified as a proven human carcinogen by OSHA and a Group 1 (Carcinogenic to Humans) material by IARC. The current proposed IARC classification for benzene is summarized as follows: Sufficient evidence for Acute Myeloid Leukemia; limited evidence for Acute Lymphatic Leukemia, Chronic Lymphatic Leukemia, Non-Hodgkin Lymphoma, and Multiple Myeloma.

NAPHTHALENE: Severe jaundice, neurotoxicity (kernicterus) and fatalities have been reported in young children and infants as a result of hemolytic anemia from overexposure to naphthalene. Persons with glucose 6-phosphate dehydrogenase (G6PD) deficiency are more prone to the hemolytic effects of naphthalene. Adverse effects on the kidney have been reported in persons overexposed to naphthalene but these effects are believed to be a consequence of hemolytic anemia, and not a direct effect. Hemolytic anemia has been observed in laboratory animals exposed to naphthalene. Laboratory rodents exposed to naphthalene vapor for 2 years (lifetime studies) developed non-neoplastic and neoplastic tumors and inflammatory lesions of the nasal and respiratory tract. Cataracts and other adverse effects on the eye have been observed in laboratory animals exposed to high levels of naphthalene. Findings from a large number of bacterial and mammalian cell mutation assays have been negative. A few studies have shown chromosomal effects (elevated levels of Sister Chromatid Exchange or chromosomal aberrations) in vitro. Naphthalene has been classified as Possibly Carcinogenic to Humans (2B) by IARC, based on findings from studies in laboratory animals.

CARBON MONOXIDE: is a chemical asphyxiant with no warning properties (such as odor). At 400-500 ppm for 1 hour headache and dyspnea may occur. If activity is increased, symptoms of overexposure may include nausea, irritability, increased respiration, tinnitus, sweating, chest pain, confusion, impaired judgement, dizziness, weakness, drowsiness, ataxia, irregular heart beat, cyanosis and pallor. Levels in excess of 1000 ppm can result in collapse, loss of conciousness, respiratory failure and death. Extremely high concentrations (12,800 ppm) can cause immediate unconsciousness and death in 1-3 minutes. Repeated anoxia can lead to central nervous system damage and peripheral neuropathy, with loss of sensation in the fingers, amnesia, and mental deterioration and possible congestive heart failure. Damage may also occur to the fetus, lung, liver, kidney, spleen, cardiovascular system and other organs.

WHOLLY-VAPORIZED UNLEADED GASOLINE: Lifetime exposure to wholly vaporized unleaded gasoline produced an increased incidence of liver tumors in female mice exposed to the highest exposure concentration (2056 ppm) and α-2 urinary globulin-mediated kidney tumors in male rats. No exposure-related tumors were observed in male mice or female rats. The male-specific rat kidney tumors are not considered relevant to human health. Mice receiving lifetime repeated skin application of various petroleum naphthas exhibited an irritation-dependent increased incidence of skin tumors. Additional studies suggest that these tumors occur through a mechanism that may not be relevant to human health. Epidemiological data from over 18,000 petroleum marketing and distribution workers

showed no increased risk of leukemia, multiple myeloma, or kidney cancer resulting from gasoline exposure. Unleaded gasoline has been identified as possibly carcinogenic to humans (2B) by the International Agency for Research on Cancer (IARC).

COMBUSTION ENGINE EXHAUST: Chronic inhalation studies of gasoline engine exhaust in mice, rats and hamsters did not produce any carcinogenic effects. Condensates/extracts of gasoline engine exhaust produced an increase in tumors compared to controls when testing by skin painting, subcutaneous injection, intratracheal instillation or implantation into the lungs. Gasoline exhaust has been classified as possibly carcinogenic to humans (2B) by the International Agency for Research on Cancer (IARC).

Adverse effects related to the physical, chemical and toxicological characteristics

Signs and Symptoms Irritating to the skin and mucous membranes. Symptoms may include redness, itching, and inflammation. May cause nausea, vomiting, diarrhea, and signs of nervous system depression: headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue. Aspiration hazard. May cause coughing, chest pains, shortness of breath, pulmonary edema and/or chemical pneumonitis. Repeated or prolonged skin contact may cause drying, reddening, itching and cracking.

Sensitization Not expected to be a skin or respiratory sensitizer.

Mutagenic effects May cause genetic defects.

Carcinogenicity May cause cancer.

Cancer designations are listed in the table below

Name	ACGIH (Class)	IARC (Class)	NTP	OSHA
Gasoline 86290-81-5	Confirmed animal carcinogen (A3)	Possible human carcinogen (2B)	Not Listed	Not Listed
Heptane (mixed isomers) 142-82-5	Not Listed	Not Listed	Not Listed	Not Listed
Pentane (mixed isomers) 78-78-4	Not Listed	Not Listed	Not Listed	Not Listed
Butane (mixed isomers) 106-97-8	Not Listed	Not Listed	Not Listed	Not Listed
Hexane Isomers (other than n-Hexane) 107-83-5	Not Listed	Not Listed	Not Listed	Not Listed
Toluene 108-88-3	Not Classifiable (A4)	Not Classifiable (3)	Not Listed	Not Listed
Xylene (mixed isomers) 1330-20-7	Not classifiable (A4)	Not classifiable (3)	Not Listed	Not Listed
n-Hexane 110-54-3	Not Listed	Not Listed	Not Listed	Not Listed
Cumene 98-82-8	Not listed	Possible human carcinogen (2B)	Reasonably anticipated to be a human carcinogen	Not listed
1,2,4 Trimethylbenzene 95-63-6	Not Listed	Not Listed	Not Listed	Not Listed
Ethylbenzene 100-41-4	Confirmed animal carcinogen (A3)	Possible human carcinogen (2B)	Not Listed	Not Listed
Benzene 71-43-2	Confirmed human carcinogen (A1)	Carcinogenic to humans (1)	Known to be human carcinogen	Known carcinogen
Cyclohexane 110-82-7	Not Listed	Not Listed	Not Listed	Not Listed
Octane 111-65-9	Not Listed	Not Listed	Not Listed	Not Listed
1,2,3-trimethylbenzene 526-73-8	Not Listed	Not Listed	Not Listed	Not Listed
Naphthalene 91-20-3	Confirmed animal carcinogen (A3)	Possible human carcinogen (2B)	Reasonably anticipated to be a human carcinogen	Not Listed

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity (STOT) - single exposure Respiratory system. Central nervous system.

Specific Target Organ Toxicity (STOT) - repeated exposure Not classified.

Aspiration hazard May be fatal if swallowed or vomited and enters airways.

12. ECOLOGICAL INFORMATION

Ecotoxicity This product should be considered toxic to aquatic organisms, with the potential to cause long lasting adverse effects in the aquatic environment.

Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Gasoline 86290-81-5	72-hr EC50 = 56 mg/l Algae	96-hr LC50 = 11 mg/l Rainbow trout (static)	-	48-hr LC50 = 7.6 mg/l Daphnia magna
Heptane (mixed isomers) 142-82-5	-	96-hr LC50 = 375 mg/L Tilapia	-	-
Pentane (mixed isomers) 78-78-4	-	96-hr LC50 = 3.1 mg/L Rainbow trout	-	48-hr EC50 = >1 - <10 mg/L Daphnia magna
Butane (mixed isomers) 106-97-8	-	-	-	-
Hexane Isomers (other than n-Hexane) 107-83-5	-	-	-	-
Toluene 108-88-3	72-hr EC50 = 12.5 mg/l Algae	96-hr LC50 <= 10 mg/l Rainbow trout	-	48-hr EC50 = 5.46-9.83 mg/l Daphnia magna 48-hr EC50 = 11.5 mg/l Daphnia magna (Static)
Xylene (mixed isomers) 1330-20-7	72-hr EC50 = 11 mg/l Algae	96-hr LC50 = 8 mg/l Rainbow trout	-	48-hr LC50 = 3.82 mg/l Daphnia magna
n-Hexane 110-54-3	-	96-hr LC50 = 2.5 mg/l Fathead minnow	-	-
Cumene 98-82-8	72-hr EC50 = 2.6 mg/l Algae	96-hr LC50 = 6.04-6.61 mg/l Fathead minnow (Flow-through) 96-hr LC50 = 2.7 mg/l Rainbow trout (semi-static)	-	48-hr EC50 = 7.9-14.1 mg/l Daphnia magna (static)
1,2,4 Trimethylbenzene 95-63-6	-	96-hr LC50 = 7.19-8.28 mg/l Fathead minnow (flow-through)	-	48-hr EC50 = 6.14 mg/L Daphnia magna
Ethylbenzene 100-41-4	72-hr EC50 = 1.7-7.6 mg/l Algae	96-hr LC50 = 4 mg/L Rainbow trout	-	48-hr EC50 = 1-4 mg/L Daphnia magna
Benzene 71-43-2	72-hr EC50 = 29 mg/l Algae	96-hr LC50 = 5.3 mg/l Rainbow trout (flow-through)	-	48-hr EC50 = 8.76-15.6 mg/l Daphnia magna (Static)
Cyclohexane 110-82-7	72-hr EC50 = 500 mg/l Algae	96-hr LC50 = 3.96-5.18 mg/l Fathead minnow	-	48-hr EC50 = 1.7-3.5 mg/L Bay shrimp
Octane 111-65-9	-	-	-	48-hr LC50 = 0.38 mg/l Daphnia magna
1,2,3-trimethylbenzene 526-73-8	-	96-hr LC50 = 7.72 mg/l Fathead Minnow (flow-through)	-	-
Naphthalene 91-20-3	-	96-hr LC50 = 0.91-2.82 mg/l Rainbow trout (static) 96-hr LC50 = 1.99 mg/l Fathead minnow (static)	-	48-hr LC50 = 1.6 mg/l Daphnia magna

Persistence and degradability Expected to be inherently biodegradable. The presence of ethanol in this product may impede the biodegradation of benzene, toluene, ethylbenzene and xylene in groundwater, resulting in elongated plumes of these constituents.

Bioaccumulation Has the potential to bioaccumulate.

Mobility in soil May partition into air, soil and water.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Description of Waste Residues
This material may be a flammable liquid waste.

Safe Handling of Wastes
Handle in accordance with applicable local, state, and federal regulations. Use personal protection measures as required. Use appropriate grounding and bonding practices. Use only non-sparking tools. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. No smoking.

Disposal of Wastes / Methods of Disposal
The user is responsible for determining if any discarded material is a hazardous waste (40 CFR 262.11). Dispose of in accordance with federal, state and local regulations.

Methods of Contaminated Packaging Disposal
Empty containers should be completely drained and then discarded or recycled, if possible. Do not cut, drill, grind or weld on empty containers since explosive residues may be present. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (49 CFR 172.101):

UN Proper Shipping Name:	Gasoline
UN/Identification No:	UN 1203
Transport Hazard Class(es):	3
Packing Group:	II

TDG (Canada):

UN Proper Shipping Name:	Gasoline
UN/Identification No:	UN 1203
Transport Hazard Class(es):	3
Packing Group:	II

15. REGULATORY INFORMATION

US Federal Regulatory Information:

US TSCA Chemical Inventory Section 8(b): This product and/or its components are listed on the TSCA Chemical Inventory.

EPA Superfund Amendment & Reauthorization Act (SARA):

SARA Section 302: This product does not contain any component(s) included on EPA's Extremely Hazardous Substance (EHS) List.

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Gasoline	NA
Heptane (mixed isomers)	NA
Pentane (mixed isomers)	NA
Butane (mixed isomers)	NA
Hexane Isomers (other than n-Hexane)	NA
Toluene	NA
Xylene (mixed isomers)	NA

n-Hexane	NA
Cumene	NA
1,2,4 Trimethylbenzene	NA
Ethylbenzene	NA
Benzene	NA
Cyclohexane	NA
Octane	NA
1,2,3-trimethylbenzene	NA
Naphthalene	NA

SARA Section 304: This product may contain component(s) identified either as an EHS or a CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requirements:

Name	Hazardous Substances RQs
Gasoline	NA
Heptane (mixed isomers)	NA
Pentane (mixed isomers)	NA
Butane (mixed isomers)	NA
Hexane Isomers (other than n-Hexane)	NA
Toluene	1000 lb final RQ 454 kg final RQ
Xylene (mixed isomers)	100 lb final RQ 45.4 kg final RQ
n-Hexane	5000 lb final RQ 2270 kg final RQ
Cumene	5000 lb final RQ 2270 kg final RQ
1,2,4 Trimethylbenzene	NA
Ethylbenzene	1000 lb final RQ 454 kg final RQ
Benzene	10 lb final RQ 4.54 kg final RQ
Cyclohexane	1000 lb final RQ 454 kg final RQ
Octane	NA
1,2,3-trimethylbenzene	NA
Naphthalene	100 lb final RQ 45.4 kg final RQ

SARA: The following EPA hazard categories apply to this product:

Acute Health Hazard
Chronic Health Hazard
Fire Hazard

SARA Section 313: This product may contain component(s), which if in exceedance of the de minimus threshold, may be subject to the reporting requirements of SARA Title III Section 313 Toxic Release Reporting (Form R).

Name	CERCLA/SARA 313 Emission reporting:
Gasoline	None
Heptane (mixed isomers)	None
Pentane (mixed isomers)	None
Butane (mixed isomers)	None
Hexane Isomers (other than n-Hexane)	None
Toluene	1.0 % de minimis concentration
Xylene (mixed isomers)	1.0 % de minimis concentration
n-Hexane	1.0 % de minimis concentration
Cumene	1.0 % de minimis concentration

1,2,4 Trimethylbenzene	1.0 % de minimis concentration
Ethylbenzene	0.1 % de minimis concentration
Benzene	0.1 % de minimis concentration
Cyclohexane	1.0 % de minimis concentration
Octane	None
1,2,3-trimethylbenzene	None
Naphthalene	0.1 % de minimis concentration

State and Community Right-To-Know Regulations:
The following component(s) of this material are identified on the regulatory lists below:

Gasoline

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 0957
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Not Listed
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Carcinogen; Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	SN 0957 TPQ: 10000 lb (Under N.J.A.C. 7:1G, environmental hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories)
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Heptane (mixed isomers)

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1339
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants:	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Pentane (mixed isomers)

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1064
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Not Listed
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed

California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - fourth degree
New Jersey - Environmental Hazardous Substances List:	SN 1064 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Butane (mixed isomers)

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 0273
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - fourth degree
New Jersey - Environmental Hazardous Substances List:	SN 0273 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Hexane Isomers (other than n-Hexane)

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1285
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Not Listed
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants:	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Toluene

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Developmental toxicity, initial date 1/1/91 Female reproductive toxicity, initial date 8/7/09
New Jersey Right-To-Know:	SN 1866
Pennsylvania Right-To-Know:	Environmental hazard
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic (skin); Flammable (skin)
Michigan Critical Materials Register List:	100 lb Annual usage threshold
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed

New Jersey - Special Hazardous Substances:	Flammable - third degree; Teratogen
New Jersey - Environmental Hazardous Substances List:	SN 1866 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	1000 lb RQ (air); 1 lb RQ (land/water)

Xylene (mixed isomers)

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 2014
Pennsylvania Right-To-Know:	Environmental hazard
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic (skin); Flammable (skin)
Michigan Critical Materials Register List:	100 lb Annual usage threshold all isomers
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	SN 2014 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	1000 lb RQ (air); 1 lb RQ (land/water)

n-Hexane

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1340
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	SN 1340 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	1 lb RQ (air); 1 lb RQ (land/water)

Cumene

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Carcinogen, initial date 4/6/10
New Jersey Right-To-Know:	SN 0542
Pennsylvania Right-To-Know:	Environmental hazard
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic (skin); Flammable (skin)
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	SN 0542 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Present

New York - Reporting of Releases Part 597 - List of Hazardous Substances:	5000 lb RQ (air); 1 lb RQ (land/water)
1,2,4 Trimethylbenzene	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1929
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed
Ethylbenzene	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Carcinogen, initial date 6/11/04
New Jersey Right-To-Know:	SN 0851
Pennsylvania Right-To-Know:	Environmental hazard
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Carcinogen; flammable - Third degree
New Jersey - Environmental Hazardous Substances List:	SN 0851 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	1000 lb RQ (air); 1 lb RQ (land/water)
Benzene	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Carcinogen, initial date 2/27/87 Developmental toxicity, initial date 12/26/97 Male reproductive toxicity, initial date 12/26/97
New Jersey Right-To-Know:	SN 0197
Pennsylvania Right-To-Know:	Environmental hazard; Special hazardous substance
Massachusetts Right-To Know:	Carcinogen; Extraordinarily hazardous
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic (skin); Flammable (skin); Carcinogen (skin)
Michigan Critical Materials Register List:	100 lb Annual usage threshold
Massachusetts Extraordinarily Hazardous Substances:	Carcinogen; Extraordinarily hazardous
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Present
New Jersey - Special Hazardous Substances:	Carcinogen; Flammable - third degree; Mutagen
New Jersey - Environmental Hazardous Substances List:	SN 0197 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	10 lb RQ (air); 1 lb RQ (land/water)

Cyclohexane

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 0565
Pennsylvania Right-To-Know:	Environmental hazard
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	SN 0565 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	1000 lb RQ (air); 1 lb RQ (land/water)

Octane

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1434
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants:	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

1,2,3-trimethylbenzene

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1929
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Naphthalene

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Carcinogen, initial date 4/19/02
New Jersey Right-To-Know:	SN 1322 SN 3758

Pennsylvania Right-To-Know:	Environmental hazard Present (particulate)
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Carcinogen
New Jersey - Environmental Hazardous Substances List:	SN 1322 TPQ: 500 lb (Reportable at the de minimis quantity of >0.1%)
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	100 lb RQ (air); 1 lb RQ (land/water)

Canada DSL/NDSL Inventory: This product and/or its components are listed either on the Domestic Substances List (DSL) or are exempt.

Canadian Regulatory Information: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the (M)SDS contains all the information required by the Controlled Products Regulations.

Name	Canada - WHMIS: Classifications of Substances:	Canada - WHMIS: Ingredient Disclosure:
Gasoline	B2,D2A,D2B	0.1%
Heptane (mixed isomers)	B2,D2B	1%
Pentane (mixed isomers)	B2	1%
Butane (mixed isomers)	A,B1	1%
Hexane Isomers (other than n-Hexane)	B2	1%
Toluene	B2,D2A,D2B	0.1%
Xylene (mixed isomers)	B2,D2A,D2B	m-, o-isomers 1.0%; p-isomer 0.1%
n-Hexane	B2,D2A,D2B	1%
Cumene	B2,D2A	0.1%
1,2,4 Trimethylbenzene	B3,D2B	1%
Ethylbenzene	B2,D2A,D2B	0.1%
Benzene	B2,D2A,D2B	0.1%
Cyclohexane	B2,D2B	1%
Octane	B2,D2B	1%
1,2,3-trimethylbenzene	B3	1%
Naphthalene	B4,D2A	0.1%

Note: Not applicable.

16. OTHER INFORMATION

Prepared By Toxicology and Product Safety

Revision Date: 06/01/2016

Revision Note:

Revised Sections

The following sections (§) have been updated:
1. IDENTIFICATION
2. HAZARD IDENTIFICATION
3. COMPOSITION/INFORMATION ON INGREDIENTS
4. FIRST AID MEASURES
6. ACCIDENTAL RELEASE MEASURES
7. HANDLING AND STORAGE
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
9. PHYSICAL AND CHEMICAL PROPERTIES
11. TOXICOLOGICAL INFORMATION
12. ECOLOGICAL INFORMATION
15. REGULATORY INFORMATION

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is intended as guidance for safe handling, use, processing, storage, transportation, accidental release, clean-up and disposal and is not considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SAFETY DATA SHEET

Helium

Section 1. Identification

GHS product identifier : Helium

Chemical name : Helium

Other means of identification : helium (dot); Helium-4; He; o-Helium; UN 1046

Product use : Synthetic/Analytical chemistry.

Synonym : helium (dot); Helium-4; He; o-Helium; UN 1046

SDS # : 001025

Supplier's details : Airgas USA, LLC and its affiliates
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253

Emergency telephone number (with hours of operation) : 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : GASES UNDER PRESSURE - Compressed gas

GHS label elements

Hazard pictograms :

Signal word : Warning

Hazard statements : Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation.

Precautionary statements

General : Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction.

Prevention : Use and store only outdoors or in a well ventilated place.

Response : Not applicable.

Storage : Protect from sunlight. Protect from sunlight when ambient temperature exceeds 52°C/125°F. Store in a well-ventilated place.

Disposal : Not applicable.

Hazards not otherwise classified : In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.

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Section 3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : Helium

Other means of identification : helium (dot); Helium-4; He; o-Helium; UN 1046

CAS number/other identifiers

CAS number : 7440-59-7

Product code : 001025

Ingredient name	%	CAS number
Helium	100	7440-59-7

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : As this product is a gas, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation : No known significant effects or critical hazards.

Skin contact : Contact with rapidly expanding gas may cause burns or frostbite.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Ingestion : As this product is a gas, refer to the inhalation section.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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Section 4. First aid measures

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

Hazardous thermal decomposition products : No specific data.

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Immediately contact emergency personnel. Stop leak if without risk.

Large spill : Immediately contact emergency personnel. Stop leak if without risk. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Helium	Oxygen Depletion [Asphyxiant]

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

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Section 8. Exposure controls/personal protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Gas. [Compressed gas.]

Color : Colorless.

Molecular weight : 4 g/mole

Molecular formula : He

Boiling/condensation point : -268.9°C (-452°F)

Melting/freezing point : -272.2°C (-458°F)

Critical temperature : -267.9°C (-450.2°F)

Odor : Odorless.

Odor threshold : Not available.

pH : Not available.

Flash point : [Product does not sustain combustion.]

Burning time : Not applicable.

Burning rate : Not applicable.

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : Not available.

Vapor density : 0.14 (Air = 1) Liquid Density@BP: 7.8 lb/ft3 (125 kg/m3)

Specific Volume (ft ^{3}/lb) : 96.1538

Gas Density (lb/ft ^{3}) : 0.0104

Relative density : Not applicable.

Solubility : Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/water : 0.28

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

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Section 9. Physical and chemical properties

SADT : Not available.

Viscosity : Not applicable.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

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Section 11. Toxicological information

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation : No known significant effects or critical hazards.

Skin contact : Contact with rapidly expanding gas may cause burns or frostbite.

Ingestion : As this product is a gas, refer to the inhalation section.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

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Section 12. Ecological information

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Helium	0.28	-	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1046	UN1046	UN1046	UN1046	UN1046
UN proper shipping name	HELIUM, COMPRESSED	HELIUM, COMPRESSED	HELIUM, COMPRESSED	HELIUM, COMPRESSED	HELIUM, COMPRESSED
Transport hazard class(es)	2.2	2.2	2.2	2.2	2.2
Packing group	-	-	-	-	-
Environment	No.	No.	No.	No.	No.
Additional information	**Limited quantity** Yes. **Packaging instruction** **Passenger aircraft** Quantity limitation: 75 kg **Cargo aircraft** Quantity limitation: 150 kg	**Explosive Limit and Limited Quantity Index** 0.125 **Passenger Carrying Road or Rail Index** 75	-	-	**Passenger and Cargo Aircraft**Quantity limitation: 75 kg **Cargo Aircraft Only** Quantity limitation: 150 kg

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

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Section 14. Transport information

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

United States inventory (TSCA 8b): This material is listed or exempted.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Sudden release of pressure

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Helium	100	No.	Yes.	No.	No.	No.

State regulations

Massachusetts : This material is listed.

New York : This material is not listed.

New Jersey : This material is listed.

Pennsylvania : This material is listed.

Canada inventory : This material is listed or exempted.

International regulations

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Section 15. Regulatory information

International lists : **Australia inventory (AICS)**: This material is listed or exempted.
China inventory (IECSC): This material is listed or exempted.
Japan inventory: Not determined.
Korea inventory: This material is listed or exempted.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted.
Philippines inventory (PICCS): This material is listed or exempted.
Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : Not listed

Canada

WHMIS (Canada) : Class A: Compressed gas.

CEPA Toxic substances: This material is not listed.
Canadian ARET: This material is not listed.
Canadian NPRI: This material is not listed.
Alberta Designated Substances: This material is not listed.
Ontario Designated Substances: This material is not listed.
Quebec Designated Substances: This material is not listed.

Section 16. Other information

Canada Label requirements : Class A: Compressed gas.

Hazardous Material Information System (U.S.A.)

Health	0
Flammability	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

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Section 16. Other information

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

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Version : 0.02

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United NationsACGIH – American Conference of Governmental Industrial Hygienists
AIHA – American Industrial Hygiene Association
CAS – Chemical Abstract Services
CEPA – Canadian Environmental Protection Act
CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act (EPA)
CFR – United States Code of Federal Regulations
CPR – Controlled Products Regulations
DSL – Domestic Substances List
GWP – Global Warming Potential
IARC – International Agency for Research on Cancer
ICAO – International Civil Aviation Organisation
Inh – Inhalation
LC – Lethal concentration
LD – Lethal dosage
NDSL – Non-Domestic Substances List
NIOSH – National Institute for Occupational Safety and Health
TDG – Canadian Transportation of Dangerous Goods Act and Regulations
TLV – Threshold Limit Value
TSCA – Toxic Substances Control Act
WEEL – Workplace Environmental Exposure Level
WHMIS – Canadian Workplace Hazardous Material Information System

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Powered by IHS

SAFETY DATA SHEET

Version 5.6
Revision Date 04/24/2015
Print Date 02/09/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Heptachlor
Product Number	:	PS78
Brand	:	Supelco
Index-No.	:	602-046-00-2
CAS-No.	:	76-44-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 2), H300
Acute toxicity, Dermal (Category 2), H310
Carcinogenicity (Category 2), H351
Specific target organ toxicity - repeated exposure (Category 2), H373
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H300 + H310	Fatal if swallowed or in contact with skin
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.

P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P302 + P350	IF ON SKIN: Gently wash with plenty of soap and water.
P310	Immediately call a POISON CENTER or doctor/ physician.
P322	Specific measures (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P361	Remove/Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene
Formula	:	$C_{10}H_5Cl_7$
Molecular weight	:	373.32 g/mol
CAS-No.	:	76-44-8
EC-No.	:	200-962-3
Index-No.	:	602-046-00-2

Hazardous components

Component	Classification	Concentration
Heptachlor		
	Acute Tox. 2; Carc. 2; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H300 + H310, H351, H373, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Heptachlor	76-44-8	TWA	0.050000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Skin contact does contribute to exposure. Confirmed animal carcinogen with unknown relevance to humans		
		TWA	0.5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		

		TWA	0.500000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		
		TWA	0.500000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A Potential for dermal absorption		
		TWA	0.05 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Liver damage Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 40.0 mg/kg

Inhalation: No data available

LD50 Dermal - Rat - 119.0 mg/kg

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Heptachlor)
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: PC0700000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.007 mg/l - 96.0 h
Toxicity to daphnia and other aquatic	LC50 - Daphnia magna (Water flea) - 0.078 mg/l - 48 h

invertebrates

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

Bioaccumulation	Pimephales promelas (fathead minnow) - 276 d - 0.00043 mg/l
	Bioconcentration factor (BCF): 23,814

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2811 Class: 6.1 Packing group: II
Proper shipping name: Toxic solids, organic, n.o.s. (Heptachlor)
Reportable Quantity (RQ): 1 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 2811 Class: 6.1 Packing group: II EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Heptachlor)
Marine pollutant:yes

IATA
UN number: 2811 Class: 6.1 Packing group: II
Proper shipping name: Toxic solid, organic, n.o.s. (Heptachlor)

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Heptachlor	76-44-8	2007-03-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Heptachlor	76-44-8	2007-03-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Heptachlor	76-44-8	2007-03-01

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Heptachlor	76-44-8	2007-09-28
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Heptachlor	76-44-8	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H300	Fatal if swallowed.
H300 + H310	Fatal if swallowed or in contact with skin
H310	Fatal in contact with skin.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

HMIS Rating

Health hazard:	4
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	3
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.6 Revision Date: 04/24/2015 Print Date: 02/09/2016

SAFETY DATA SHEET

Version 3.8
Revision Date 04/24/2015
Print Date 04/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Hexachlorobenzene
Product Number	:	171050
Brand	:	Aldrich
Index-No.	:	602-065-00-6
CAS-No.	:	118-74-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Carcinogenicity (Category 1B), H350
Specific target organ toxicity - repeated exposure, Oral (Category 1), H372
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure if swallowed.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.

P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	C_6Cl_6
Molecular weight	:	284.78 g/mol
CAS-No.	:	118-74-1
EC-No.	:	204-273-9
Index-No.	:	602-065-00-6

Hazardous components

Component	Classification	Concentration
Hexachlorobenzene		
	Carc. 1B; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H350, H372, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Hexachlorobenzene	118-74-1	TWA	0.002000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Porphyrin effects Skin damage Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: white
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 227 - 229 °C (441 - 444 °F) - lit.
f)	Initial boiling point and boiling range	323 - 326 °C (613 - 619 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available

m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 10,000 mg/kg

LD50 Oral - Mouse - 4,000 mg/kg

LD50 Oral - Cat - 1,700 mg/kg

LD50 Oral - Rabbit - 2,600 mg/kg

LD50 Oral - Guinea pig - > 3,000 mg/kg

LD50 Oral - Quail - > 6,400 mg/kg

LD50 Oral - Mammal - > 5,000 mg/kg
Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Change in motor activity (specific assay).

LC50 Inhalation - Rat - 3,600 mg/m3

LC50 Inhalation - Mouse - 4,000 mg/m3

LC50 Inhalation - Cat - 1,600 mg/m3

LC50 Inhalation - Rabbit - 1,800 mg/m3

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
Causes photosensitivity. Exposure to light can result in allergic reactions resulting in dermatologic lesions, which can vary from sunburnlike responses to edematous, vesiculated lesions, or bullae

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Hexachlorobenzene)
NTP:	Reasonably anticipated to be a human carcinogen (Hexachlorobenzene)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Ingestion - Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

Additional Information
RTECS: Not available

Liver -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Lepomis macrochirus (Bluegill) - 7.6 mg/l - 96.0 h
	NOEC - Pimephales promelas (fathead minnow) - > 0.0048 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - > 0.005 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

Bioaccumulation	Pimephales promelas (fathead minnow) - 32 d - 0.0003 mg/l
	Bioconcentration factor (BCF): 22,000

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2729 Class: 6.1 Packing group: III
Proper shipping name: Hexachlorobenzene
Reportable Quantity (RQ): 10 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 2729 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: HEXACHLOROBENZENE
Marine pollutant:yes
IATA
UN number: 2729 Class: 6.1 Packing group: III
Proper shipping name: Hexachlorobenzene

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Hexachlorobenzene	118-74-1	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Hexachlorobenzene	118-74-1	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Hexachlorobenzene	118-74-1	2007-07-01

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Hexachlorobenzene	118-74-1	2007-09-28

	CAS-No.	Revision Date
WARNING: This product contains a chemical known to the		

State of California to cause birth defects or other reproductive harm. Hexachlorobenzene	118-74-1	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	3
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	3
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.8 Revision Date: 04/24/2015 Print Date: 04/01/2016

SAFETY DATA SHEET

Issuing Date no data available **Revision Date** 29-Oct-2015 **Revision Number** 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Number	**019**
Product Name	**Hexavalent Chromium - 1000 mg/L, 125 mL**
Synonyms	None

Recommended use of the chemical and restrictions on use

Recommended Use	Laboratory use only
Uses advised against	No information available

Details of the supplier of the safety data sheet

Supplier	ERA a Waters Company
Supplier Address	16341 Table Mountain Parkway, Golden, CO 80403 USA
Non-Emergency Telephone Number	+1-303-431-8454
Supplier Email	sdsinfo@waters.com

Emergency telephone number

Company Emergency Phone Number	In case of EMERGENCY call CHEMTREC Day or Night Within USA and Canada: 800-424-9300 International Call Collect: +1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Respiratory sensitization	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive Toxicity	Category 1B

GHS Label elements, including precautionary statements

Emergency Overview

Signal word **Danger**

Hazard Statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
May cause genetic defects
May cause cancer
May damage fertility or the unborn child

Appearance Yellow **Physical state** Liquid->Liquid **Odor** Odorless

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Avoid breathing dust/fume/gas/mist/vapors/spray
In case of inadequate ventilation wear respiratory protection
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
Specific treatment (see supplemental first aid instructions on this label)
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
Inhalation
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

Precautionary Statements - Storage
Store locked up
Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable
Unknown Toxicity
0 % of the mixture consists of ingredient(s) of unknown toxicity
Other information

Harmful to aquatic life with long lasting effects
Repeated or prolonged skin contact may cause allergic reactions with susceptible persons
Interactions with Other Chemicals
No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Note: only the components contributing to the product's GHS hazard classification are listed in this section.

Synonyms None.

Chemical Name	CAS-No	Percent
Potassium Dichromate	7778-50-9	0.25

4. FIRST AID MEASURES

First aid measures

General Advice	Show this safety data sheet to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Inhalation	MAY CAUSE ALLERGIC RESPIRATORY REACTION. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Seek immediate medical attention/advice.
Ingestion	May produce an allergic reaction. If an allergic reaction occurs, stop use and seek medical help right away. Do NOT induce vomiting. Rinse mouth immediately and drink plenty of

water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects Itching. Rashes. Hives. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing.

Indication of any immediate medical attention and special treatment needed

Notes to Physician May cause sensitization in susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Product is or contains a sensitizer. May cause sensitization by skin contact. May cause sensitization by inhalation and skin contact.

Uniform Fire Code Sensitizer: Liquid

Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Other Information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers. Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium Dichromate 7778-50-9	TWA: 0.05 mg/m^3 Cr	TWA: 5 µg/m^3 Action Level: 2.5 µg/m^3 Cr (vacated) Ceiling: 0.1 mg/m^3 Ceiling: 0.1 mg/m^3 CrO3 applies to any operations or sectors for which the Hexavalent Chromium standard [29 CFR 1910.1026] is stayed or is otherwise not in effect	IDLH: 15 mg/m^3 Cr(VI) TWA: 0.0002 mg/m^3 Cr

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state Liquid->Liquid
Appearance Yellow
Color No information available
Odor Odorless
Odor Threshold No information available

Property	Values	Remarks Method
pH	5	None known
Melting / freezing point	no data available	None known
Boiling point / boiling range	no data available	None known
Flash Point	no data available	None known
Evaporation Rate	no data available	None known
Flammability (solid, gas)	no data available	None known

Flammability Limit in Air		
Upper flammability limit	no data available	
Lower flammability limit	no data available	
Vapor pressure	no data available	None known
Vapor density	no data available	None known
Specific Gravity	1	None known
Water Solubility	Soluble in water	None known
Solubility in other solvents	no data available	None known
Partition coefficient: n-octanol/water	no data available	None known
Autoignition temperature	no data available	None known
Decomposition temperature	no data available	None known
Kinematic viscosity	no data available	None known
Dynamic viscosity	no data available	None known
Explosive properties	no data available	
Oxidizing properties	no data available	

Other Information

Softening Point	no data available
Particle Size	no data available
Particle Size Distribution	

10. STABILITY AND REACTIVITY

Reactivity

no data available.

Chemical stability
Stable under recommended storage conditions.
Possibility of Hazardous Reactions
None under normal processing.
Hazardous Polymerization
Hazardous polymerization does not occur.
Conditions to avoid
None known based on information supplied.
Incompatible materials
None known based on information supplied.
Hazardous Decomposition Products
Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	.
Inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Specific test data for the substance or mixture is not available. May cause sensitization in susceptible persons. (based on components).
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components).
Ingestion	Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation".

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium Dichromate 7778-50-9	= 25 mg/kg (Rat) = 48 mg/kg (Rat)	= 1150 mg/kg (Rabbit) = 14 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms Itching. Rashes. Hives. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization May cause sensitization in susceptible persons. May cause sensitization by skin contact. May cause sensitization by inhalation.

Mutagenic Effects There is no data for this product. Contains a known or suspected mutagen.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Potassium Dichromate 7778-50-9	A1	Group 1	Known	X

ACGIH (American Conference of Governmental Industrial Hygienists)
A1 - Known Human Carcinogen
IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
NTP (National Toxicology Program)
Known - Known Carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Reproductive toxicity Contains a known or suspected reproductive toxin.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Chronic toxicity No known effect based on information supplied. Prolonged exposure may cause chronic effects. Repeated contact may cause allergic reactions in very susceptible persons. Contains a known or suspected mutagen. Possible risk of irreversible effects. Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin.

Target Organ Effects Skin. Respiratory system. Eyes. May affect the genetic material in germ cells (sperm and eggs). Gastrointestinal tract (GI). Reproductive system.

Aspiration Hazard No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)
40,000.00 mg/kg
ATEmix (inhalation-dust/mist)
20.04 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity
Harmful to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Potassium Dichromate 7778-50-9		96h LC50: > 139 mg/L (Cyprinus carpio) 96h LC50: 113.6 - 155.7 mg/L (Lepomis macrochirus) 96h LC50: = 320 mg/L (Lepomis macrochirus) 96h LC50: 65.6 - 137.6 mg/L (Lepomis macrochirus) 96h LC50: = 12.3 mg/L (Oncorhynchus mykiss) 96h LC50: 21.209 - 30.046 mg/L (Oryzias latipes) 96h LC50: 15.41 - 30.36 mg/L (Pimephales promelas) 96h LC50: 14 - 20.9 mg/L (Pimephales promelas) 96h LC50: 24.81 - 34.55 mg/L (Poecilia reticulata) 96h LC50: 23 - 41.2 mg/L (Poecilia reticulata) 96h LC50: = 26 mg/L (Morone saxatilis)		

Persistence and Degradability
No information available.
Bioaccumulation
No information available

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging Dispose of contents/containers in accordance with local regulations.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Potassium Dichromate 7778-50-9	Toxic Corrosive Ignitable

14. TRANSPORT INFORMATION

DOT Not regulated
Proper Shipping Name NON REGULATED
Hazard Class N/A

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated
Proper Shipping Name NON REGULATED
Special Provisions None

IMDG Not regulated
Special Provisions None
Marine Pollutant Not applicable

RID Not regulated
Special Provisions None

ADR Not regulated
Special Provisions None

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL All components are listed either on the DSL or NDSL.
ENCS Contact supplier for inventory compliance status
KECL Contact supplier for inventory compliance status
PICCS Contact supplier for inventory compliance status
AICS Contact supplier for inventory compliance status

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS-No	Percent	SARA 313 - Threshold Values %
Potassium Dichromate - 7778-50-9	7778-50-9	0.25	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden release of pressure hazard No
Reactive Hazard No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium Dichromate 7778-50-9	10 lb	X		X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Potassium Dichromate 7778-50-9	10 lb		RQ 10 lb final RQ RQ 4.54 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

.

International Regulations

Component	Carcinogen Status	Exposure Limits
Potassium Dichromate 7778-50-9 (0.25)	A1	Mexico: TWA 0.05 mg/m³ Mexico: TWA 0.5 mg/m³

A1 - Confirmed Human Carcinogen

Canada

WHMIS Hazard Class

Not determined

16. OTHER INFORMATION

NFPA	**Health Hazards** 2	**Flammability** 0	**Instability** 0	**Physical and Chemical Hazards** -
HMIS	**Health Hazards** 2 *	**Flammability** 0	**Physical Hazard** 0	**Personal Protection** X

Chronic Hazard Star Legend * = Chronic Health Hazard

Prepared By Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Revision Date 29-Oct-2015

Revision Note No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

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End of Safety Data Sheet

SAFETY DATA SHEET

Version 6.8
Revision Date 08/28/2024
Print Date 08/29/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Indeno[1,2,3-*cd*]pyrene

Product Number : 48499
Brand : Supelco
CAS-No. : 193-39-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Carcinogenicity (Category 2), H351

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word Warning

Hazard Statements
H351 Suspected of causing cancer.

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operates as MilliporeSigma in the US and Canada
MilliporeSigma

Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	$C_{22}H_{12}$
Molecular weight	:	276.33 g/mol
CAS-No.	:	193-39-5
EC-No.	:	205-893-2

Component	Classification	Concentration
Indeno[1,2,3-cd]pyrene		
	Carc. 2; H351	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

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4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections
For disposal see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Dry. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class
Storage class (TRGS 510): 11: Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
Handle with impervious gloves.

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm

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Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Body Protection
protective clothing

Respiratory protection
Recommended Filter type: Filter type P3
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	163.6 °C (326.5 °F)
f)	Initial boiling point and boiling range	No data available
g)	Flash point	()Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	No data available

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	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Oral: No data available
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation
Remarks: No data available

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Serious eye damage/eye irritation
Remarks: No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Indeno[1,2,3-cd]pyrene)

NTP: RAHC - Reasonably anticipated to be a human carcinogen (Indeno[1,2,3-cd]pyrene)

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

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12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

Further information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Indeno[1,2,3-cd]pyrene	193-39-5	100	100

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Chronic Health Hazard

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SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Indeno[1,2,3-cd]pyrene	193-39-5	>= 90 - <= 100 %

US State Regulations

Massachusetts Right To Know

Indeno[1,2,3-cd]pyrene 193-39-5

Pennsylvania Right To Know

Indeno[1,2,3-cd]pyrene 193-39-5

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Prop. 65

WARNING: This product can expose you to chemicals including Indeno[1,2,3-cd]pyrene, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.8
Revision Date 30.05.2024
Print Date 16.09.2024
GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name	:	Iron
Product Number	:	12310
Brand	:	Aldrich
REACH No.	:	01-2119462838-24-XXXX
CAS-No.	:	7439-89-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich Inc. 3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES
Telephone	:	+1 314 771-5765
Fax	:	+1 800 325-5052

1.4 Emergency telephone

Emergency Phone #	:	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Flammable solids, (Category 1)	H228: Flammable solid.
Self-heating substances and mixtures, (Category 1)	H251: Self-heating; may catch fire.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

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Pictogram	
Signal Word	Danger
Hazard Statements	
H228	Flammable solid.
H251	Self-heating; may catch fire.
Precautionary Statements	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P235	Keep cool.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Supplemental Hazard Statements	none

Reduced Labeling (<= 125 ml)

Pictogram	
Signal Word	Danger
Hazard Statements	
H251	Self-heating; may catch fire.
Precautionary Statements	
P235	Keep cool.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
Supplemental Hazard Statements	none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Toxicological information:
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	Fe
Molecular weight	:	55,85 g/mol
CAS-No.	:	7439-89-6
EC-No.	:	231-096-4

No components need to be disclosed according to the applicable regulations.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact
After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed
After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Iron oxides
Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

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5.4 Further information
Suppress (knock down) gases/vapors/mists with a water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up
Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.

Hygiene measures
Change contaminated clothing. Wash hands after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Keep away from heat and sources of ignition.

Storage class
Storage class (TRGS 510): 4.2: Pyrophoric and self-heating hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Body Protection
Flame retardant antistatic protective clothing.

Respiratory protection
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.
Recommended Filter type: Filter type P1

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure
Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Physical state	powder
b)	Color	light gray
c)	Odor	odorless
d)	Melting point/freezing point	Melting point/range: 1.538 °C at 1.023 hPa
e)	Initial boiling point and boiling range	2.861 °C at 1.013 hPa
f)	Flammability (solid, gas)	The substance or mixture is a flammable solid with the category 1.
g)	Upper/lower flammability or explosive limits	No data available
h)	Flash point	Not applicable
i)	Autoignition temperature	The substance or mixture is classified as self heating with the category 1.

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j)	Decomposition temperature	No data available
k)	pH	Not applicable
l)	Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
m)	Water solubility	insoluble
n)	Partition coefficient: n-octanol/water	Not applicable for inorganic substances
o)	Vapor pressure	Not applicable
p)	Density	7,87 g/cm3 at 20 °C
	Relative density	7,87 at 20 °C
q)	Relative vapor density	
r)	Particle characteristics	No data available
s)	Explosive properties	Not classified as explosive.
t)	Oxidizing properties	The substance or mixture is not classified as oxidizing.

9.2 Other safety information

Dust explosion class St1

SECTION 10: Stability and reactivity

10.1 Reactivity

Self-heating; may catch fire.
The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

no information available

10.5 Incompatible materials

Strong acids

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 7.500 mg/kg
Remarks: (Lit.)
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation
Remarks: No skin irritation

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation
(OECD Test Guideline 405)
Remarks: (Lit.)

Respiratory or skin sensitization
Did not cause sensitization on laboratory animals.

Germ cell mutagenicity
Test system: S. typhimurium
Method: OECD Test Guideline 471
Result: Not mutagenic in Ames Test.
Remarks: (Lit.)

Carcinogenicity
No data available

Reproductive toxicity
Did not show teratogenic effects in animal experiments.
Animal testing did not show any effects on fertility.

Specific target organ toxicity - single exposure
The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard
No data available

11.2 Additional Information

Endocrine disrupting properties

Product:

Assessment	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish static test - Morone saxatilis - 13,6 mg/l - 96 h

12.2 Persistence and degradability

Not applicable

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

No data available

SECTION 14: Transport information

14.1 UN number

ADR/RID: 3178 IMDG: 3178 IATA: 3178

14.2 UN proper shipping name

ADR/RID: FLAMMABLE SOLID, INORGANIC, N.O.S. (Iron Powder,)
IMDG: FLAMMABLE SOLID, INORGANIC, N.O.S. (Iron Powder,)
IATA: Flammable solid, inorganic, n.o.s. (Iron Powder,)

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14.3 Transport hazard class(es)

ADR/RID: 4.1	IMDG: 4.1	IATA: 4.1

14.4 Packaging group

ADR/RID: III	IMDG: III	IATA: III

14.5 Environmental hazards

ADR/RID: no	IMDG Marine pollutant: no	IATA: no

14.6 Special precautions for user

Tunnel restriction code : (E)

Further information : No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Other regulations

Take note of Dir 94/33/EC on the protection of young people at work.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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SAFETY DATA SHEET

Version 4.7
Revision Date 12/29/2015
Print Date 02/07/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Lead
Product Number	:	391352
Brand	:	Aldrich
CAS-No.	:	7439-92-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 4), H302
Carcinogenicity (Category 2), H351
Reproductive toxicity (Category 2), H361
Specific target organ toxicity - repeated exposure (Category 2), H373
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)

H302	Harmful if swallowed.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and

	understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Pb
Molecular weight	:	207.20 g/mol
CAS-No.	:	7439-92-1
EC-No.	:	231-100-4

Hazardous components

Component	Classification	Concentration
Lead		
	Acute Tox. 4; Carc. 2; Repr. 2; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H302, H351, H361, H373, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Lead oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
	Remarks	See 1910.1025		
Lead	7439-92-1	TWA	0.05 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Confirmed animal carcinogen with unknown relevance to humans		
		TWA	0.05 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Hematologic effects Peripheral Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans		

		TWA	0.05 mg/m3	USA. NIOSH Recommended Exposure Limits
		See Appendix C		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Lead	7439-92-1	Lead	30µg/ 100 ml	In blood	ACGIH - Biological Exposure Indices (BEI)
	Remarks	Not critical			
		Lead	30µg/ 100 ml	In blood	ACGIH - Biological Exposure Indices (BEI)
		Not critical			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 327.4 °C (621.3 °F) - lit.
f)	Initial boiling point and boiling range	1,740 °C (3,164 °F) - lit.
g)	Flash point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong acids

10.6 Hazardous decomposition products

Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity

Rat
Cytogenetic analysis

Carcinogenicity

Limited evidence of carcinogenicity in animal studies

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Lead)
NTP:	Reasonably anticipated to be a human carcinogen (Lead)
	Reasonably anticipated to be a human carcinogenThe reference note has been added by TD based on the background information of the NTP. (Lead)
OSHA:	1910.1025 (Lead)
	OSHA specifically regulated carcinogen (Lead)

Reproductive toxicity
Suspected human reproductive toxicant

Reproductive toxicity - Rat - Inhalation
Effects on Newborn: Biochemical and metabolic.

Reproductive toxicity - Rat - Oral
Effects on Newborn: Behavioral.

Reproductive toxicity - Mouse - Oral
Effects on Fertility: Female fertility index (e.g., # females pregnant per # sperm positive females; # females pregnant per # females mated). Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea).

Developmental Toxicity - Rat - Inhalation
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Blood and lymphatic system (including spleen and marrow).

Developmental Toxicity - Rat - Oral
Specific Developmental Abnormalities: Blood and lymphatic system (including spleen and marrow). Effects on Newborn: Growth statistics (e.g., reduced weight gain).

Developmental Toxicity - Rat - Oral
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetal death.

Developmental Toxicity - Mouse - Oral
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetal death.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

Additional Information
RTECS: OF7525000

anemia

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	mortality LOEC - Oncorhynchus mykiss (rainbow trout) - 1.19 mg/l - 96.0 h
	LC50 - Micropterus dolomieui - 2.2 mg/l - 96.0 h
	mortality NOEC - Salvelinus fontinalis - 1.7 mg/l - 10.0 d
Toxicity to daphnia and other aquatic invertebrates	mortality LOEC - Daphnia (water flea) - 0.17 mg/l - 24 h
	mortality NOEC - Daphnia (water flea) - 0.099 mg/l - 24 h
Toxicity to algae	mortality EC50 - Skeletonema costatum - 7.94 mg/l - 10 d

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

Bioaccumulation	Oncorhynchus kisutch - 2 Weeks - 150 µg/l
	Bioconcentration factor (BCF): 12

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Lead)
Reportable Quantity (RQ): 10 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead)
Marine pollutant:yes
IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Lead)

Further information
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Lead	7439-92-1	1994-04-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Lead	7439-92-1	1994-04-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Lead	7439-92-1	1994-04-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Lead	7439-92-1	1994-04-01

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Lead	7439-92-1	1989-07-10
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Lead	7439-92-1	1989-07-10

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H302	Harmful if swallowed.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	1
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.7 Revision Date: 12/29/2015 Print Date: 02/07/2016

SAFETY DATA SHEET

Version 5.7
Revision Date 05/27/2015
Print Date 02/23/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Lindane
Product Number	:	233390
Brand	:	Aldrich
Index-No.	:	602-043-00-6
CAS-No.	:	58-89-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 4), H332
Acute toxicity, Dermal (Category 4), H312
Carcinogenicity (Category 2), H351
Effects on or via lactation, H362
Specific target organ toxicity - repeated exposure (Category 2), H373
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H301	Toxic if swallowed.
H312 + H332	Harmful in contact with skin or if inhaled
H351	Suspected of causing cancer.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P263	Avoid contact during pregnancy/ while nursing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	1α,2α,3β,4α,5α,6β-Hexachlorocyclohexane γ-BHC
Formula	:	$C_6H_6Cl_6$
Molecular weight	:	290.83 g/mol
CAS-No.	:	58-89-9
EC-No.	:	200-401-2
Index-No.	:	602-043-00-6

Hazardous components

Component	Classification	Concentration
γ-1,2,3,4,5,6-Hexachlorocyclohexane		
	Acute Tox. 3; Acute Tox. 4; Carc. 2; Lact. ; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H301, H312 + H332, H351, H362, H373, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
γ-1,2,3,4,5,6-Hexachlorocyclohexane	58-89-9	TWA	0.500000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Liver damage Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		TWA	0.500000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		
		TWA	0.500000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 113 - 115 °C (235 - 239 °F) - lit.
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	1.85 g/cm3
n)	Water solubility	8.35 g/l at 25 °C (77 °F)
o)	Partition coefficient: n-octanol/water	Pow: 3.5 at 22 °C (72 °F)
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 88.0 mg/kg

LC50 Inhalation - Rat - 4 h - 1,560 mg/m3

Dermal: No data available

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation

Respiratory or skin sensitisation
Will not occur

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	2B - Group 2B: Possibly carcinogenic to humans (γ-1,2,3,4,5,6-Hexachlorocyclohexane)
NTP:	Reasonably anticipated to be a human carcinogenThe reference note has been added by TD based on the background information of the NTP. (γ-1,2,3,4,5,6-Hexachlorocyclohexane)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
Effects on or via lactation

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: GV4900000

Neurotoxic effects., Cyanosis, Headache, Nausea, Incoordination., Tremors, Vomiting, Dizziness, Seizures., Unconsciousness

Reproductive system. - Irregularities - Based on Human Evidence
Reproductive system. - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Cyprinus carpio (Carp) - 0.2 mg/l - 96.0 h
	LC50 - Cyprinodon variegatus (sheepshead minnow) - 0.9 - 1.3 mg/l - 96.0 h
	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.03 - 0.28 mg/l - 48.0 h
	NOEC - Oncorhynchus mykiss (rainbow trout) - 0.056 mg/l - 3.0 d
	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.038 mg/l - 96.0 h

	LOEC - Oncorhynchus mykiss (rainbow trout) - 0.1 mg/l - 3.0 d
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.80 - 6.50 mg/l - 48 h
	LOEC - Daphnia (water flea) - 0.021 mg/l - 7 d
Toxicity to algae	EC50 - Algae - 4.00 mg/l - 72 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

Bioaccumulation	Pimephales promelas (fathead minnow) - 304 d - 0.0091 mg/l
	Bioconcentration factor (BCF): 674

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
Very toxic to aquatic life with long lasting effects.
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solids, organic, n.o.s. (γ-1,2,3,4,5,6-Hexachlorocyclohexane)
Reportable Quantity (RQ): 1 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (γ-1,2,3,4,5,6-Hexachlorocyclohexane)
Marine pollutant:yes

IATA
UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solid, organic, n.o.s. (γ-1,2,3,4,5,6-Hexachlorocyclohexane)

15. REGULATORY INFORMATION

SARA 302 Components
The following components are subject to reporting levels established by SARA Title III, Section 302:

	CAS-No.	Revision Date
γ-1,2,3,4,5,6-Hexachlorocyclohexane	58-89-9	2007-07-01

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
γ-1,2,3,4,5,6-Hexachlorocyclohexane	58-89-9	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
γ-1,2,3,4,5,6-Hexachlorocyclohexane	58-89-9	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
γ-1,2,3,4,5,6-Hexachlorocyclohexane	58-89-9	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
γ-1,2,3,4,5,6-Hexachlorocyclohexane	58-89-9	2007-07-01

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. γ-1,2,3,4,5,6-Hexachlorocyclohexane	58-89-9	2009-02-01

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H312 + H332	Harmful in contact with skin or if inhaled
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs through prolonged or repeated exposure.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.7 Revision Date: 05/27/2015 Print Date: 02/23/2016

SAFETY DATA SHEET

Version 6.6
Revision Date 09/06/2024
Print Date 09/07/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Magnesium

Product Number : 266302
Brand : Sigma-Aldrich
Index-No. : 012-002-00-9
CAS-No. : 7439-95-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable solids (Category 1), H228
Self-heating chemicals (Category 1), H251
Chemicals which, in contact with water, emit flammable gases (Category 2), H261

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operates as MilliporeSigma in the US and Canada

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word	Danger
Hazard Statements	
H228	Flammable solid.
H251	Self-heating; may catch fire.
H261	In contact with water releases flammable gas.
Precautionary Statements	
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P223	Do not allow contact with water.
P231 + P232	Handle under inert gas. Protect from moisture.
P235 + P410	Keep cool. Protect from sunlight.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P280	Wear protective gloves/ eye protection/ face protection.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P402 + P404	Store in a dry place. Store in a closed container.
P403 + P235	Store in a well-ventilated place. Keep cool.
P407	Maintain air gap between stacks/ pallets.
P420	Store away from other materials.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Combustible dust

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	Mg
Molecular weight	:	24.31 g/mol
CAS-No.	:	7439-95-4
EC-No.	:	231-104-6
Index-No.	:	012-002-00-9

No components need to be disclosed according to the applicable regulations.

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact
After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed
After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Special powder against metal fire Cover with dry sand or cement.

Unsuitable extinguishing media
Foam Water

5.2 Special hazards arising from the substance or mixture

Magnesium oxide
Not combustible.
May not get in touch with: Water
Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

none

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Keep workplace dry. Do not allow product to come into contact with water.

Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.

Hygiene measures
Change contaminated clothing. Wash hands after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Keep away from heat and sources of ignition.
Never allow product to get in contact with water during storage.

Storage class
Storage class (TRGS 510): 4.2: Pyrophoric and self-heating hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

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8.2 Exposure controls

Appropriate engineering controls
Change contaminated clothing. Wash hands after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Flame retardant antistatic protective clothing.

Respiratory protection
Recommended Filter type: Filter type P1
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains. Risk of explosion.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: chips
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/ range: 648 °C (1198 °F) - lit.
f)	Initial boiling point and boiling range	1,090 °C 1,994 °F - lit.
g)	Flash point	()No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	May form combustible dust concentrations in air.
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	1 hPa at 621 °C (1150 °F)
l)	Vapor density	No data available
m)	Density	1.74 g/mL at 25 °C (77 °F) - lit.
	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	The substance or mixture is classified as self heating with the category 1.
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Self-heating; may catch fire.

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operates as MilliporeSigma in the US and Canada

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
Risk of ignition or formation of inflammable gases or vapours with:
Oxidizing agents
alkalines
Halogenated hydrocarbon
halogens
Alcohols
nitrates
acids
Water

10.4 Conditions to avoid
Exposure to moisture. Exposure to air.
Moisture.

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Oral: No data available
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation
Remarks: No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

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Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, chills, Fever, fatigue, muscle pain, joint pain, rash, Anorexia.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver - Irregularities - Based on Human Evidence

Liver - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)
UN number: 1869 Class: 4.1 Packing group: III
Proper shipping name: Magnesium
Reportable Quantity (RQ):
Poison Inhalation Hazard: No

IMDG
UN number: 1869 Class: 4.1 Packing group: III EMS-No: F-G, S-G
Proper shipping name: MAGNESIUM

IATA
UN number: 1869 Class: 4.1 Packing group: III
Proper shipping name: Magnesium

SECTION 15: Regulatory information

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Fire Hazard Reactivity Hazard Chronic Health Hazard
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Maine Chemicals of High Concern

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Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.6 Revision Date: 09/06/2024 Print Date: 09/07/2024

The life science business of Merck KGaA, Darmstadt, Germany
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SAFETY DATA SHEET

Version 4.6
Revision Date 03/02/2015
Print Date 02/07/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Manganese
Product Number	:	463728
Brand	:	Aldrich
CAS-No.	:	7439-96-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Substances and mixtures, which in contact with water, emit flammable gases (Category 1), H260
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H260	In contact with water releases flammable gases which may ignite spontaneously.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P223	Keep away from any possible contact with water, because of violent reaction and possible flash fire.
P231 + P232	Handle under inert gas. Protect from moisture.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.

P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P402 + P404	Store in a dry place. Store in a closed container.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Mn
Molecular weight	:	54.94 g/mol
CAS-No.	:	7439-96-5
EC-No.	:	231-105-1

Hazardous components

Component	Classification	Concentration
Manganese		
	Water-react. 1; Aquatic Acute 3; Aquatic Chronic 3; H260, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Dry powder Carbon dioxide (CO2)

Unsuitable extinguishing media
Water

5.2 Special hazards arising from the substance or mixture
Manganese/manganese oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.
Never allow product to get in contact with water during storage.

Moisture sensitive. Keep in a dry place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Manganese	7439-96-5	TWA	0.200000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC)		
		C	5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		
		C	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		

		TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		C	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		
		TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.200000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) varies		
		TWA	0.100000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment 2014 Adoption varies		
		TWA	0.020000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment 2014 Adoption varies		
		TWA	0.1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment varies		
		TWA	0.02 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment varies		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
impervious clothing, Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: grey
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 1,244 °C (2,271 °F) - lit.
f)	Initial boiling point and boiling range	1,962 °C (3,564 °F) - lit.
g)	Flash point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	7.3 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts violently with water.

10.4 Conditions to avoid
Exposure to moisture

10.5 Incompatible materials
acids, Halogens, Bases, Phosphorus, Sulphur oxides, Peroxides

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 9,000 mg/kg

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Mild eye irritation - 24 h

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

Carcinogenicity - Rat - Intramuscular
Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Tumorigenic:Tumors at site or application.

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

May cause reproductive disorders.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: OO9275000

Men exposed to manganese dusts showed a decrease in fertility. Chronic manganese poisoning primarily involves the central nervous system. Early symptoms include languor, sleepiness and weakness in the legs. A stolid mask-like appearance of the face, emotional disturbances such as uncontrollable laughter and a spastic gait with tendency to fall in walking are findings in more advanced cases. High incidence of pneumonia has been found in workers exposed to the dust or fume of some manganese compounds.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 40 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3208 Class: 4.3 Packing group: I
Proper shipping name: Metallic substance, water-reactive, n.o.s. (Manganese)

Poison Inhalation Hazard: No

IMDG
UN number: 3208 Class: 4.3 Packing group: I EMS-No: F-G, S-N
Proper shipping name: METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S. (Manganese)

IATA
UN number: 3208 Class: 4.3 Packing group: I
Proper shipping name: Metallic substance, water-reactive, n.o.s. (Manganese)
IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

SARA 311/312 Hazards
Reactivity Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H260	In contact with water releases flammable gases which may ignite spontaneously.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	2

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	2
Special hazard.I:	W

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.6 Revision Date: 03/02/2015 Print Date: 02/07/2016

SAFETY DATA SHEET

Version 6.12
Revision Date 07/27/2024
Print Date 07/28/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name	:	*m*-Cresol
Product Number	:	W353000
Brand	:	Aldrich
Index-No.	:	604-004-00-9
CAS-No.	:	108-39-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances
Uses advised against	:	The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich Inc. 3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES
Telephone	:	+1 314 771-5765
Fax	:	+1 800 325-5052

1.4 Emergency telephone

Emergency Phone #	:	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 4), H227
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Dermal (Category 3), H311

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Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Short-term (acute) aquatic hazard (Category 2), H401
Long-term (chronic) aquatic hazard (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram	
Signal Word	Danger
Hazard Statements	
H227	Combustible liquid.
H301 + H311	Toxic if swallowed or in contact with skin.
H314	Causes severe skin burns and eye damage.
H401	Toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
Precautionary Statements	
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : 3-Methylphenol

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Formula	:	C_7H_8O
Molecular weight	:	108.14 g/mol
CAS-No.	:	108-39-4
EC-No.	:	203-577-9
Index-No.	:	604-004-00-9

Component	Classification	Concentration
meta-Cresol		
	Flam. Liq. 4; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 2; Aquatic Chronic 3; H227, H301, H311, H314, H318, H401, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact
After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed
If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides
Combustible.
Vapors are heavier than air and may spread along floors.
Forms explosive mixtures with air on intense heating.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition.
Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.

Hygiene measures

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Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Moisture sensitive.

Storage class
Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
meta-Cresol	108-39-4	TWA	2.3 ppm 10 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	5 ppm 22 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	Remarks	Skin designation		
		TWA	20 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Not classifiable as a human carcinogen Danger of cutaneous absorption		
		PEL	5 ppm 22 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

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Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: Chloroprene
Minimum layer thickness: 0.65 mm
Break through time: 480 min
Material tested:KCL 720 Camapren®

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: Latex gloves
Minimum layer thickness: 0.6 mm
Break through time: 60 min
Material tested:Lapren® (KCL 706 / Aldrich Z677558, Size M)

Body Protection
protective clothing

Respiratory protection
Recommended Filter type: Filter A-(P3)
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Color: colorless, light yellow
b)	Odor	phenol-like

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c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/ range: 8 - 10 °C (46 - 50 °F) - lit.
f)	Initial boiling point and boiling range	203 °C 397 °F - lit.
g)	Flash point	86 °C (187 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 1.35 %(V) Lower explosion limit: 1.06 %(V)
k)	Vapor pressure	< 1 hPa at 20 °C (68 °F)
l)	Vapor density	3.73 - (Air = 1.0)
m)	Density	1.034 g/cm3 at 25 °C (77 °F) - lit.
	Relative density	1.0320 °C
n)	Water solubility	22.7 g/l at 25 °C (77 °F)
o)	Partition coefficient: n-octanol/water	log Pow: 1.96 - Bioaccumulation is not expected.
p)	Autoignition temperature	559 °C (1038 °F) at 1,013 hPa
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	Not classified as explosive.
t)	Oxidizing properties	none

9.2 Other safety information

Dissociation constant	10.09 at 25 °C (77 °F)
Relative vapor density	3.73 - (Air = 1.0)

SECTION 10: Stability and reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating.
A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

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10.3 Possibility of hazardous reactions

Violent reactions possible with:
Strong oxidizing agents
Nitric acid
fuming sulfuric acid
chlorosulfonic acid
alkalines
Iron
Lead

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - male - 242 mg/kg
(OECD Test Guideline 401)
Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.
Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract
Inhalation: Corrosive to respiratory system.
LD50 Dermal - Rabbit - 620 mg/kg
Remarks: Behavioral:Somnolence (general depressed activity).
Behavioral:Tetany.
(RTECS)

Skin corrosion/irritation
Skin - Rabbit
Result: Causes burns. - 24 h
Remarks: (ECHA)
Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Serious eye damage/eye irritation
Remarks: Causes serious eye damage.

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
Test Type: Ames test
Test system: Escherichia coli/Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471

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Result: negative
Test Type: Mutagenicity (mammal cell test): chromosome aberration.
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: positive
Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Test Type: Chromosome aberration test
Species: Mouse
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 475
Result: negative

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

Repeated dose toxicity - Rat - male - Oral - 13 Weeks - NOAEL (No observed adverse effect level) - 50 mg/kg

RTECS: GO6125000
Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After absorption:

Systemic effects:

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Headache
Nausea
Vomiting
Dizziness
agitation, spasms
respiratory arrest
Unconsciousness

Damage to:

Central nervous system
Liver
Kidney

This substance should be handled with particular care.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	static test LC50 - Salvelinus fontinalis - 7.6 mg/l - 96 h Remarks: (ECHA)
	static test LC50 - Oncorhynchus mykiss (rainbow trout) - 8.6 mg/l - 96 h Remarks: (ECHA)
	static test LC50 - Salmo trutta (brown trout) - 8.4 mg/l - 96 h Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates	flow-through test EC50 - Daphnia pulicaria - > 99.5 mg/l - 48 h (US-EPA)
Toxicity to fish(Chronic toxicity)	flow-through test NOEC - Pimephales promelas (fathead minnow) - 1.35 mg/l - 32 d (OECD Test Guideline 210) Remarks: The value is given in analogy to the following substances: p-cresol
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	semi-static test NOEC - Daphnia magna (Water flea) - 1 mg/l - 21 d Remarks: (ECHA) The value is given in analogy to the following substances: p-cresol

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12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 10 d
Result: 96 % - Inherently biodegradable.
(OECD Test Guideline 302B)

12.3 Bioaccumulative potential

Bioaccumulation Leuciscus idus (Golden orfe) - 3 d
- 0.05 mg/l(meta-Cresol)

Bioconcentration factor (BCF): 17 - 20

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Biological effects:
Hazard for drinking water supplies.
Change in the flavour characteristics of fish protein.
Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)

UN number: 2076 Class: 6.1 (8) Packing group: II
Proper shipping name: Cresols, liquid
Reportable Quantity (RQ): 100 lbs
Reportable Quantity (RQ): 100 lbs
Poison Inhalation Hazard: No

IMDG

UN number: 2076 Class: 6.1 (8) Packing group: II EMS-No: F-A, S-B
Proper shipping name: CRESOLS, LIQUID

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IATA
UN number: 2076 Class: 6.1 (8) Packing group: II
Proper shipping name: Cresols, liquid

SECTION 15: Regulatory information

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
meta-Cresol	108-39-4	100	100
meta-Cresol	108-39-4	100	100 (D024)

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard
Chronic Health Hazard

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

meta-Cresol 108-39-4 >= 90 - <= 100 %

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):
meta-Cresol 108-39-4 >= 90 - <= 100 %
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):
meta-Cresol 108-39-4 >= 90 - <= 100 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:
meta-Cresol 108-39-4 >= 90 - <= 100 %
This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307
This product does not contain any priority pollutants related to the U.S. Clean Water Act

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US State Regulations

Massachusetts Right To Know

meta-Cresol	108-39-4

Pennsylvania Right To Know

meta-Cresol	108-39-4

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.12 Revision Date: 07/27/2024 Print Date: 07/28/2024

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SAFETY DATA SHEET

Version 6.5
Revision Date 02/07/2023
Print Date 02/07/2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Mercury

Product Number : 215457
Brand : SIGALD
Index-No. : 080-001-00-0
CAS-No. : 7439-97-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Scientific research and development, Reagent for analysis

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Inhalation (Category 2), H330
Reproductive toxicity (Category 1B), H360
Specific target organ toxicity - repeated exposure (Category 1), H372
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word Danger

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Hazard statement(s)

H330	Fatal if inhaled.
H360	May damage fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	Hg
Molecular weight	:	200.59 g/mol
CAS-No.	:	7439-97-6
EC-No.	:	231-106-7
Index-No.	:	080-001-00-0

Component	Classification	Concentration
mercury		
	Acute Tox. 2; Repr. 1B; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H330, H360, H372, H400, H410 M-Factor - Aquatic Acute: 1 - Aquatic Chronic: 100	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Mercury/mercury oxides.
Not combustible.
Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. In some instances, a mercury spill kit may be used. Please consult with your site EHS representative to determine the most appropriate clean up method.Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Store under inert gas.

Storage class
Storage class (TRGS 510): 6.1B: Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

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Component	CAS-No.	Value	Control parameters	Basis
mercury	7439-97-6	C	0.1 mg/m3	USA. NIOSH Recommended Exposure Limits
	Remarks	Potential for dermal absorption		
		CEIL	1.0mg/10m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		TWA	0.05 mg/m3	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
		Skin notation		
		TWA	0.025 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Kidney damage Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen Danger of cutaneous absorption		
		TWA	0.05 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

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Body Protection
protective clothing

Respiratory protection
required when vapours/aerosols are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Color: silver, white
b)	Odor	odorless
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -38.87 °C (-37.97 °F) - lit.
f)	Initial boiling point and boiling range	356.6 °C 673.9 °F - lit.
g)	Flash point	()Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	The product is not flammable.
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	< 0.01 hPa at 20 °C (68 °F) 1 hPa at 126 °C(259 °F)
l)	Vapor density	6.93 - (Air = 1.0)
m)	Density	13.55 g/cm3 at 25 °C (77 °F)
	Relative density	No data available
n)	Water solubility	0.00006 g/l at 25 °C (77 °F)
o)	Partition coefficient: n-octanol/water	Not applicable for inorganic substances
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available

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s) Explosive properties No data available

t) Oxidizing properties none

9.2 Other safety information

Relative vapor density	6.93 - (Air = 1.0)

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
Risk of explosion with:
Acetylene
Alkali metals
Aluminum
Amines
Ammonia
chlorine dioxide
Potassium
sodium
oxalic acid
perchlorates
Risk of ignition or formation of inflammable gases or vapours with:
Chlorine
silanes
Oxygen
Generates dangerous gases or fumes in contact with:
Nitric acid
Exothermic reaction with:
Bromine
Metals
acetylidene
Oxygen

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
Aluminum, Lead, Copper, silver, Zinc, zinc alloys, Tin

10.6 Hazardous decomposition products
In the event of fire: see section 5

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Oral: No data available
LC50 Inhalation - Rat - male - 2 h - < 27 mg/m3 - vapor

Dermal: No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
Presumed human reproductive toxicant

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

11.2 Additional Information

RTECS: OV4550000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

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SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	mortality LC50 - Cyprinus carpio (Carp) - 0.160 mg/l - 96 h
Toxicity to fish(Chronic toxicity)	Remarks: No data available (mercury)

12.2 Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Bioaccumulation	Carassius auratus (goldfish) - 1,789 d - 0.25 µg/l(mercury) Bioconcentration factor (BCF): 155,986

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

DOT (US)

UN number: 2809 Class: 8 (6.1) Packing group: III
Proper shipping name: Mercury
Reportable Quantity (RQ): 1 lbs
Reportable Quantity (RQ): 1 lbs
Poison Inhalation Hazard: No

IMDG

UN number: 2809 Class: 8 (6.1) Packing group: III EMS-No: F-A, S-B
Proper shipping name: MERCURY
Marine pollutant : yes

IATA

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UN number: 2809 Class: 8 (6.1) Packing group: III
Proper shipping name: Mercury

SECTION 15: Regulatory information

SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
mercury	7439-97-6	2015-11-23

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Reportable Quantity : D009 lbs

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
mercury	7439-97-6	2015-11-23

California Prop. 65 Components

	CAS-No.	Revision Date
, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.mercury	7439-97-6	2013-12-20

SECTION 16: Other information

Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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SAFETY DATA SHEET

Version 3.8
Revision Date 05/27/2016
Print Date 11/13/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Methane
Product Number	:	295477
Brand	:	Aldrich
Index-No.	:	601-001-00-4
CAS-No.	:	74-82-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	+1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable gases (Category 1), H220
Gases under pressure (Compressed gas), H280
Simple Asphyxiant,

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word	Danger
Hazard statement(s)	
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation.
Precautionary statement(s)	
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381	Eliminate all ignition sources if safe to do so.
P410 + P403	Protect from sunlight. Store in a well-ventilated place.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	CH_4
Molecular weight	:	16.04 g/mol
CAS-No.	:	74-82-8
EC-No.	:	200-812-7
Index-No.	:	601-001-00-4

Hazardous components

Component	Classification	Concentration
Methane		
	Flam. Gas 1; Press. Gas Compr. Gas; SA ; H220, H280,	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Clean up promptly by sweeping or vacuum.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Contents under pressure.
Storage class (TRGS 510): Gases

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Methane	74-82-8	TWA	1,000.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Cardiac sensitization		
		See Appendix F: Minimal Oxygen Content Asphyxia 2015 Adoption		
		TWA	0.100000 mg/m3	USA. NIOSH Recommended Exposure Limits
		'Ca' in the presence of formaldehyde, acetaldehyde, or malonaldehyde. See Appendices A & C (Aldehydes).		
		TWA	0.100000 mg/m3	USA. NIOSH Recommended Exposure Limits
		'Ca' in the presence of formaldehyde, acetaldehyde, or malonaldehyde. See Appendices A & C (Aldehydes).		
		See Appendix F: Minimal Oxygen Content Asphyxia		
		TWA	0.1 mg/m3	USA. NIOSH Recommended Exposure Limits
		'Ca' in the presence of formaldehyde, acetaldehyde, or malonaldehyde. See Appendices A & C (Aldehydes).		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 60 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: gaseous Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -183 °C (-297 °F) - lit.
f)	Initial boiling point and boiling range	-161 °C (-258 °F) - lit.
g)	Flash point	-188 °C (-306 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower	Upper explosion limit: 15 %(V)

	flammability or explosive limits	Lower explosion limit: 5 %(V)
k)	Vapour pressure	No data available
l)	Vapour density	0.55 - (Air = 1.0)
m)	Relative density	0.716 g/cm3 at 25 °C (77 °F)
n)	Water solubility	3.5 g/l at 17 °C (63 °F)
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Relative vapour density 0.55 - (Air = 1.0)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: PA1490000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1971 Class: 2.1

Proper shipping name: Methane, compressed
Reportable Quantity (RQ):

Poison Inhalation Hazard: No

IMDG
UN number: 1971 Class: 2.1 EMS-No: F-D, S-U
Proper shipping name: METHANE, COMPRESSED

IATA
UN number: 1971 Class: 2.1
Proper shipping name: Methane, compressed
IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Methane	74-82-8	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Methane	74-82-8	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Methane	74-82-8	1993-04-24

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

	May displace oxygen and cause rapid suffocation.
Flam. Gas	Flammable gases
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
Press. Gas	Gases under pressure
SA	Simple Asphyxiant

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	
Flammability:	4
Physical Hazard	3

NFPA Rating

Health hazard:	0
Fire Hazard:	4
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.8 Revision Date: 05/27/2016 Print Date: 11/13/2016

Safety Data Sheet

Material Name METHYL CHLOROFORM **SDS ID: MAT14370**

* * *Section 1 - IDENTIFICATION* * *

Product Identifier: METHYL CHLOROFORM

Trade Names/Synonyms

MTG MSDS 219; 1,1,1-TRICHLOROETHANE; ALPHA-TRICHLOROETHANE; AEROTHENE TT; METHYLTRICHLOROMETHANE; METHYLCHLOROFORM; TRICHLOROMETHYLMETHANE; TRICHLOROETHANE; ETHANE, 1,1,1-TRICHLOROETHANE; CHLORTEN; 1,1,1-TRICHLORETHANE; UN 2831; C2H3Cl3

Chemical Family

halogenated, aliphatic

Recommended Use

industrial

Restrictions on Use

None known.

Manufacturer Information

MATHESON TRI-GAS, INC.
150 Allen Road, Suite 302
Basking Ridge, NJ 07920

General Information: 1-800-416-2505
Emergency #: 1-800-424-9300 (CHEMTREC)
Outside the US: 703-527-3887 (Call collect)

* * *Section 2 - HAZARDS IDENTIFICATION* * *

Classification in accordance with 29 CFR 1910.1200

Acute Toxicity (Inhalation), Category 4
Skin Corrosion / Irritation, Category 2
Eye Damage / Irritation, Category 2A
Toxic to Reproduction, Category 2
Specific Target Organ Toxicity - Single Exposure, Category 1 (central nervous system and heart)
Specific Target Organ Toxicity - Single Exposure, Category 3 (respiratory system)
Specific Target Organ Toxicity - Repeated Exposure, Category 1 (central nervous system, heart, and liver)
Specific Target Organ Toxicity - Repeated Exposure, Category 2 (brain, lungs, and nervous system)
Hazardous to the Aquatic Environment - Acute Hazard, Category 2
Hazardous to the Aquatic Environment - Chronic Hazard, Category 2
Hazardous for the ozone layer, Category 1

GHS LABEL ELEMENTS

Symbol(s)

Signal Word

DANGER

Hazard Statement(s)

Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
Suspected of damaging fertility or the unborn child
Causes damage to central nervous system and heart.
May cause respiratory tract irritation.
Causes damage to central nervous system, heart, and liver through prolonged or repeated exposure.
May cause damage to brain, lungs, nervous system through prolonged or repeated exposure.
Toxic to aquatic life with long lasting effects
Harms public health and the environment by destroying ozone in the upper atmosphere

Precautionary Statement(s)

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe vapor or mist. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment.

Response

IF exposed: Call a POISON CENTER or doctor/physician. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Collect spillage.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

Dispose of in accordance with applicable regulations.
Refer to manufacturer/supplier for information on recovery/recycling.

* * *Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS* * *

CAS	Component	Percent
71-55-6	METHYL CHLOROFORM	100

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Trichloroethane (25323-89-1).

* * *Section 4 - FIRST AID MEASURES* * *

Description of Necessary Measures

Inhalation

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

Skin

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eyes

Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Then get immediate medical attention.

Ingestion

If vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately.

Most Important Symptoms/Effects

Acute

respiratory tract irritation, skin irritation, eye irritation, central nervous system depression, central nervous system damage, heart damage

Delayed

central nervous system damage, heart damage, liver damage, reproductive effects, lung damage, brain damage, nervous system damage

Indication of Immediate Medical Attention and Special Treatment

For inhalation, consider oxygen.

* * *Section 5 - FIRE FIGHTING MEASURES* * *

Suitable Extinguishing Media

carbon dioxide, regular dry chemical, water spray

Large fires: Use dry chemical, carbon dioxide, alcohol-resistant foam or water spray.

Unsuitable Extinguishing Media

Do not scatter spilled material with high-pressure water streams.

Specific Hazards Arising from the Chemical

Slight fire hazard.

Hazardous Combustion Products

Combustion: hydrogen chloride, phosgene, oxides of carbon

Fire Fighting Measures

Move container from fire area if it can be done without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with water spray until well after the fire is out. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Stay away from the ends of tanks. For tank, rail car or tank truck, evacuation radius: 800 meters (1/2 mile).

Special Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

* * *Section 6 - ACCIDENTAL RELEASE MEASURES* * *

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up

Avoid heat, flames, sparks and other sources of ignition. Eliminate all ignition sources if safe to do so. Stop leak if possible without personal risk. **Small spills:** Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. **Large spills:** Dike for later disposal. Remove sources of ignition. Keep unnecessary people away, isolate hazard area and deny entry. Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).

* * *Section 7 - HANDLING AND STORAGE* * *

Precautions for Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe vapor or mist. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Avoid release to the environment.

Conditions for Safe Storage, including any Incompatibilities

Store and handle in accordance with all current regulations and standards. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in a cool, dry place. Keep separated from incompatible substances.

Incompatibilities combustible materials, bases, metals, oxidizing materials

* * *Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION* * *

Component Exposure Limits

METHYL CHLOROFORM (71-55-6)

ACGIH:	350 ppm TWA 450 ppm STEL
Europe:	100 ppm TWA; 555 mg/m3 TWA 200 ppm STEL; 1110 mg/m3 STEL
OSHA (Final):	350 ppm TWA; 1900 mg/m3 TWA
OSHA (Vacated):	350 ppm TWA; 1900 mg/m3 TWA 450 ppm STEL; 2450 mg/m3 STEL
NIOSH:	350 ppm Ceiling (15 min); 1900 mg/m3 Ceiling (15 min)

Component Biological Limit Values

METHYL CHLOROFORM (71-55-6)

ACGIH: 40 ppm Medium: end-exhaled air Time: prior to last shift of workweek Parameter: Methyl chloroform; 10 mg/L Medium: urine Time: end of workweek Parameter: Trichloroacetic acid (nonspecific, semi-quantitative); 30 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Total trichloroethanol (nonspecific, semi-quantitative); 1 mg/L Medium: blood Time: end of shift at end of workweek Parameter: Total trichloroethanol (nonspecific)

IDLH

700 ppm

Appropriate Engineering Controls

Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eyes/Face Protection

Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear appropriate chemical resistant clothing.

Glove Recommendations

Wear appropriate chemical resistant gloves.

Respiratory Protection

The following respirators and maximum use concentrations are drawn from NIOSH and/or OSHA.

700 ppm

Any supplied-air respirator.

Any self-contained breathing apparatus with a full facepiece.
Emergency or planned entry into unknown concentrations or IDLH conditions -
Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.
Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.
Escape -
Any air-purifying full-facepiece respirator (gas mask) with a chin-style, front-mounted or back-mounted organic vapor canister.
Any appropriate escape-type, self-contained breathing apparatus.

* * *Section 9 - PHYSICAL AND CHEMICAL PROPERTIES* * *

Physical State:	Liquid	**Appearance:**	clear, colorless liquid
Color:	colorless	**Physical Form:**	volatile liquid
Odor:	sweet odor	**Odor Threshold:**	44 - 100 ppm
pH:	Not available	**Melting/Freezing Point:**	-32 °C
Boiling Point:	74 °C	**Flash Point:**	>93.3 °C
Decomposition:	Not available	**Evaporation Rate:**	5.0 (butyl acetate=1)
LEL:	7.5 %	**UEL:**	12.5 %
Vapor Pressure:	100 mmHg @ 20 °C	**Henry's Law Constant:**	0.072 atm-cu m/mole @ 25°C
Vapor Density (air = 1):	4.55	**Specific Gravity (water=1):**	1.3390
Water Solubility:	0.078 % @ 25 °C	**Log KOW:**	2.49
KOC:	17823.79 estimated from water solubility	**Auto Ignition:**	537 °C
Viscosity:	0.858 cP @20 °C	**Volatility:**	100%
Molecular Weight:	133.40	**Molecular Formula:**	C-H3-C-Cl3

Other Property Information

No additional information is available.

Solvent Solubility

Soluble: acetone, benzene, chloroform, methanol, ethanol, carbon disulfide, ether, carbon tetrachloride, heptane

* * *Section 10 - STABILITY AND REACTIVITY* * *

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Will not polymerize.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat.

Incompatible Materials

combustible materials, bases, metals, oxidizing materials

Hazardous Decomposition

Combustion: hydrogen chloride, phosgene, oxides of carbon

* * *Section 11 - TOXICOLOGICAL INFORMATION* * *

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

METHYL CHLOROFORM (71-55-6)

Dermal LD50 Rabbit >15800 mg/kg; Inhalation LC50 Rat 18000 ppm 4 h; Oral LD50 Rat >2000 mg/kg

RTECS Acute Toxicity (selected)

The components of this material have been reviewed, and RTECS publishes the following endpoints:

METHYL CHLOROFORM (71-55-6)

Inhalation: 24400 mg/m3 Inhalation Cat LC50; 29492 ppm/10 minute(s) Inhalation Mouse LC50; 3911 ppm/2 hour Inhalation Mouse LC50
20000 ppm/2 hour Inhalation Rat LC50; 14250 ppm/7 hour Inhalation Rat LC50; 17000 ppm/4 hour Inhalation Rat LC50

Acute Toxicity Level

METHYL CHLOROFORM (71-55-6)

Slightly Toxic: inhalation, dermal absorption, ingestion

Information on Likely Routes of Exposure

Inhalation

irritation, changes in blood pressure, nausea, vomiting, diarrhea, difficulty breathing, irregular heartbeat, headache, drowsiness, dizziness, mood swings, loss of coordination, blood disorders, heart disorders, kidney damage, liver damage, convulsions, unconsciousness, coma, heart damage, reproductive effects

Ingestion

irritation, nausea, vomiting, diarrhea, stomach pain, irregular heartbeat, headache, drowsiness, dizziness, disorientation, loss of coordination, kidney damage, liver damage, convulsions, unconsciousness, coma, reproductive effects

Skin Contact

irritation (possibly severe)

Eye Contact

irritation

Immediate Effects

respiratory tract irritation, skin irritation, eye irritation, central nervous system depression, central nervous system damage, heart damage

Delayed Effects

central nervous system damage, heart damage, liver damage, reproductive effects, brain damage, lung damage, nervous system damage

Medical Conditions Aggravated by Exposure

heart or cardiovascular disorders, kidney disorders, liver disorders, skin disorders and allergies

Irritation/Corrosivity Data

respiratory tract irritation, skin irritation, eye irritation

RTECS Irritation

The components of this material have been reviewed, and RTECS publishes the following endpoints:

METHYL CHLOROFORM (71-55-6)

450 ppm/8 hour Eyes Man; 100 mg Eyes Rabbit mild; 2 mg/24 hour Eyes Rabbit severe; 5 gm/12 day(s) intermittent Skin Rabbit mild; 20 mg/24 hour Skin Rabbit moderate

Local Effects

METHYL CHLOROFORM (71-55-6)

Irritant: inhalation, skin, eye

Target Organs

METHYL CHLOROFORM (71-55-6)

central nervous system

Respiratory Sensitization

No data available.

Dermal Sensitization

No data available.

Carcinogenicity

Component Carcinogenicity

METHYL CHLOROFORM (71-55-6)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Supplement 7 [1987]; Monograph 20 [1979] (Group 3 (not classifiable))

RTECS Mutagenic

The components of this material have been reviewed, and RTECS publishes data for one or more components.

Reproductive Effects Data

Available data characterizes this substance as a reproductive hazard.

RTECS Reproductive Effects

The components of this material have been reviewed, and RTECS publishes the following endpoints:

METHYL CHLOROFORM (71-55-6)

2100 ppm Inhalation Rat TCLo (6 hour, pregnant 1-20 day(s)); 7000 ppm Inhalation Rat TCLo (3 hour, pregnant 13-19 day(s)); 43 mg/kg Oral Rat TDLo (pregnant 1-22 day(s), 21 day(s))

RTECS Tumorigenic

The components of this material have been reviewed, and RTECS publishes data for one or more components.

Additional Data

Alcohol may enhance the toxic effects. Stimulants such as epinephrine may induce ventricular fibrillation.

Specific Target Organ Toxicity - Single Exposure

central nervous system, heart, respiratory system

Specific Target Organ Toxicity - Repeated Exposure

central nervous system, heart, liver, brain, lungs, nervous system

Aspiration Hazard

Not expected to be an aspiration hazard.

* * *Section 12 - ECOLOGICAL INFORMATION* * *

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Component Analysis - Aquatic Toxicity

METHYL CHLOROFORM (71-55-6)

Fish: 96 Hr LC50 Pimephales promelas: 35.2 - 50.7 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 57 - 90 mg/L [static] (juvenile); 96 Hr LC50 Cyprinus carpio: 56 mg/L [flow-through]; 96 Hr LC50 Poecilia reticulata: 52.9 mg/L [flow-through]; 96 Hr LC50 Poecilia reticulata: 69.7 mg/L [static]; 96 Hr LC50 Pimephales promelas: 91 - 126 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 46 - 59 mg/L [static]

Algae: 96 Hr EC50 Pseudokirchneriella subcapitata: >500 mg/L

Invertebrate: 48 Hr LC50 Daphnia magna: >530 mg/L; 48 Hr EC50 Daphnia magna: 2384 mg/L; 48 Hr EC50 Daphnia magna: 9.7 - 12.8 mg/L [Static]

Persistence and Degradability

This material may biodegrade in soil and water.

Bioaccumulative Potential

Bioconcentration potential in aquatic organisms is low based on BCF value of 0.7-4.9.

Mobility

Expected to have high mobility in soil.

* * *Section 13 - DISPOSAL CONSIDERATIONS* * *

Disposal Methods

Dispose in accordance with all applicable regulations.

Component Waste Numbers

METHYL CHLOROFORM (71-55-6)

RCRA: waste number U226

* * *Section 14 - TRANSPORT INFORMATION* * *

US DOT Information

Shipping Name: 1,1,1-Trichloroethane
UN/NA #: UN2831 **Hazard Class:** 6.1 **Packing Group:** III
Required Label(s): 6.1

IMDG Information

Shipping Name: 1,1,1-Trichloroethane
UN #: UN2831 **Hazard Class:** 6.1 **Packing Group:** III
Required Label(s): 6.1

* * *Section 15 - REGULATORY INFORMATION* * *

Component Analysis

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

METHYL CHLOROFORM (71-55-6)

SARA 313: 1.0 % de minimis concentration
CERCLA: 1000 lb final RQ; 454 kg final RQ

SARA 311/312 Hazardous Categories

Acute Health: Yes **Chronic Health:** Yes **Fire:** No **Pressure:** No **Reactive:** No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
METHYL CHLOROFORM	71-55-6	Yes	Yes	Yes	Yes	Yes

Not regulated under California Proposition 65

Component Analysis - Inventory

Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
METHYL CHLOROFORM	71-55-6	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes

* * *Section 16 - OTHER INFORMATION* * *

NFPA Ratings: Health: 2 **Fire:** 1 **Reactivity:** 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

Other Information

Matheson Tri-Gas, Inc. makes no express or implied warranties, guarantees or representations regarding the product or the information herein, including but not limited to any implied warranty or merchantability or fitness for use. Matheson Tri-Gas, Inc. shall not be liable for any personal injury, property or other damages of any nature, whether compensatory, consequential, exemplary, or otherwise, resulting from any publication, use or reliance upon the information herein.

End of Sheet MAT14370

Fisher Scientific

Part of Thermo Fisher Scientific

SAFETY DATA SHEET

Creation Date 27-Jan-2010 **Revision Date** 02-Oct-2015 **Revision Number** 2

1. Identification

Product Name **Methylene chloride**

Cat No. : **D37-1; D37-4; D37-20; D37-200; D37-200LC; D37-500; D37FB-19; D37FB-50; D37FB-115; D37FB-200; D37POP-19; D37POPB-50; D37POPB-200; D37RB-19; D37RB-50; D37RB-115; D37RB-200; D37RS-19; D37RS-28; D37RS-50; D37RS-115; D37RS-200; D37SK-4; D37SK-4LC; D37SS-28; D37SS-50; D37SS-115; D37SS-200; D37SS-1350**

Synonyms Dichloromethane; DCM

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Emergency Telephone Number
CHEMTREC®, Inside the USA: 800-424-9300
CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Carcinogenicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Central nervous system (CNS), Respiratory system.	
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Liver, Kidney, Blood.	

Label Elements

Signal Word
Danger

Hazard Statements
Causes skin irritation
Causes serious eye irritation

May cause respiratory irritation
May cause drowsiness or dizziness
May cause cancer
May cause damage to organs through prolonged or repeated exposure

Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Wear eye/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Response
IF exposed or concerned: Get medical attention/advice
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)

WARNING! This product contains a chemical known in the State of California to cause cancer, birth defects or other reproductive harm.

3. Composition / information on ingredients

Component	CAS-No	Weight %
Methylene chloride	75-09-2	>99.5
Methyl alcohol	67-56-1	0 - 0.4
Cyclohexene	110-83-8	0 - 0.01
2-Methyl-2-butene	513-35-9	0 - 0.01

4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms/effects Breathing difficulties. . Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature 556 °C / 1032.8 °F
Explosion Limits
Upper 23 vol %
Lower 13 vol %
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO_2) Hydrogen chloride gas Phosgene
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

6. Accidental release measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak.

Environmental Precautions Should not be released into the environment. See Section 12 for additional ecological information.

Methods for Containment and Clean Up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Use only under a chemical fume hood.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methylene chloride	TWA: 50 ppm	(Vacated) TWA: 500 ppm (Vacated) STEL: 2000 ppm (Vacated) Ceiling: 1000 ppm TWA: 25 ppm STEL: 125 ppm	IDLH: 2300 ppm
Methyl alcohol	TWA: 200 ppm STEL: 250 ppm Skin	(Vacated) TWA: 200 ppm (Vacated) TWA: 260 mg/m^3 (Vacated) STEL: 250 ppm (Vacated) STEL: 325 mg/m^3 Skin TWA: 200 ppm TWA: 260 mg/m^3	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m^3 STEL: 250 ppm STEL: 325 mg/m^3
Cyclohexene	TWA: 300 ppm	(Vacated) TWA: 300 ppm (Vacated) TWA: 1015 mg/m^3 TWA: 300 ppm TWA: 1015 mg/m^3	IDLH: 2000 ppm TWA: 300 ppm TWA: 1015 mg/m^3

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Methylene chloride	TWA: 50 ppm TWA: 174 mg/m^3	TWA: 100 ppm TWA: 330 mg/m^3 STEL: 500 ppm STEL: 1740 mg/m^3	TWA: 50 ppm
Methyl alcohol	TWA: 200 ppm TWA: 262 mg/m^3 STEL: 250 ppm STEL: 328 mg/m^3 Skin	TWA: 200 ppm TWA: 260 mg/m^3 STEL: 250 ppm STEL: 310 mg/m^3	TWA: 200 ppm STEL: 250 ppm Skin
Cyclohexene	TWA: 300 ppm TWA: 1010 mg/m^3	TWA: 300 ppm TWA: 1015 mg/m^3	TWA: 300 ppm

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	sweet
Odor Threshold	No information available
pH	Not applicable
Melting Point/Range	-97 °C / -142.6 °F
Boiling Point/Range	39 °C / 102.2 °F
Flash Point	No information available

Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	23 vol %
Lower	13 vol %
Vapor Pressure	20 mmHg @ 3502°C
Vapor Density	2.93 (Air = 1.0)
Specific Gravity	1.33
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	556 °C / 1032.8 °F
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C H2 Cl2
Molecular Weight	84.93

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat.

Incompatible Materials Strong oxidizing agents, Strong acids, Amines

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2), Hydrogen chloride gas, Phosgene

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methylene chloride	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	53 mg/L (Rat) 6 h 76000 mg/m³ (Rat) 4 h
Methyl alcohol	LD50 = 6200 mg/kg (Rat)	LD50 = 15800 mg/kg (Rabbit)	64000 ppm (Rat) 4 h 83.2 mg/L (Rat) 4 h
Cyclohexene	LD50 = 2400 µL/kg (Rat)	>200 mg/kg (Rat)	>21.6 mg/L/4h (rat)
2-Methyl-2-butene	700-2600 mg/kg (Rat)	>2000 mg/kg (Rat)	LC50 > 61000 ppm (Rat) 4 h

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes and skin

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Methylene chloride	75-09-2	Group 2A	Reasonably Anticipated	A3	X	A3
Methyl alcohol	67-56-1	Not listed	Not listed	Not listed	Not listed	Not listed

Cyclohexene	110-83-8	Not listed	Not listed	Not listed	Not listed	Not listed
2-Methyl-2-butene	513-35-9	Not listed	Not listed	Not listed	Not listed	Not listed

IARC: (International Agency for Research on Cancer)

IARC: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

NTP: (National Toxicity Program)
Known - Known Carcinogen
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen
ACGIH: (American Conference of Governmental Industrial Hygienists)

Mexico - Occupational Exposure Limits - Carcinogens

Mexico - Occupational Exposure Limits - Carcinogens
A1 - Confirmed Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Confirmed Animal Carcinogen
A4 - Not Classifiable as a Human Carcinogen
A5 - Not Suspected as a Human Carcinogen

Mutagenic Effects Mutagenic effects have occured in microorganisms.

Reproductive Effects Experiments have shown reproductive toxicity effects on laboratory animals.

Developmental Effects Developmental effects have occurred in experimental animals.

Teratogenicity No information available.

STOT - single exposure Central nervous system (CNS) Respiratory system
STOT - repeated exposure Liver Kidney Blood

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting
Endocrine Disruptor Information No information available

Other Adverse Effects Tumorigenic effects have been reported in experimental animals. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

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Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Methylene chloride	EC50:>660 mg/L/96h	Pimephales promelas: LC50:193 mg/L/96h	EC50: 1 mg/L/24 h EC50: 2.88 mg/L/15 min	EC50: 140 mg/L/48h
Methyl alcohol	Not listed	Pimephales promelas: LC50 > 10000 mg/L 96h	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	EC50 > 10000 mg/L 24h
Cyclohexene	Not listed	Poecillia reticulata: 7.1 mg/L/96h	Not listed	Daphnia: EC50: 5.3 mg/L/48h
2-Methyl-2-butene	Not listed	Not listed	Not listed	EC50: = 3 mg/L, 48h (Daphnia magna)

Persistence and Degradability Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its volatility.

Component	log Pow
Methylene chloride	1.25
Methyl alcohol	-0.74

Cyclohexene	3.27

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Methylene chloride - 75-09-2	U080	-
Methyl alcohol - 67-56-1	U154	-

14. Transport information

DOT

UN-No UN1593
Proper Shipping Name DICHLOROMETHANE
Hazard Class 6.1
Packing Group III

TDG

UN-No UN1593
Proper Shipping Name DICHLOROMETHANE
Hazard Class 6.1
Packing Group III

IATA

UN-No UN1593
Proper Shipping Name Dichloromethane
Hazard Class 6.1
Packing Group III

IMDG/IMO

UN-No UN1593
Proper Shipping Name Dichloromethane
Hazard Class 6.1
Packing Group III

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Methylene chloride	X	X	-	200-838-9	-		X	X	X	X	X
Methyl alcohol	X	X	-	200-659-6	-		X	X	X	X	X
Cyclohexene	X	X	-	203-807-8	-		X	X	X	X	X
2-Methyl-2-butene	X	X	-	208-156-3	-		X	X	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Methylene chloride	75-09-2	>99.5	0.1
Methyl alcohol	67-56-1	0 - 0.4	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Methylene chloride	-	-	X	X

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Methylene chloride	X		-
Methyl alcohol	X		-

OSHA Occupational Safety and Health Administration

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Methylene chloride	125 ppm STEL 12.5 ppm Action Level 25 ppm TWA	-

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Methylene chloride	1000 lb 1 lb	-
Methyl alcohol	5000 lb	-

California Proposition 65 This product contains the following proposition 65 chemicals

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Methylene chloride	75-09-2	Carcinogen	200 µg/day 50 µg/day	Carcinogen
Methyl alcohol	67-56-1	Developmental	-	Developmental

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Methylene chloride	X	X	X	X	X
Methyl alcohol	X	X	X	X	X
Cyclohexene	X	X	X	-	X
2-Methyl-2-butene	X	X	X	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):	Y
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D1B Toxic materials
D2A Very toxic materials

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 27-Jan-2010
Revision Date 02-Oct-2015
Print Date 02-Oct-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Version 6.15
Revision Date 09/07/2024
Print Date 09/08/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : *tert*-Butyl methyl ether

Product Number : 306975
Brand : Sigma-Aldrich
Index-No. : 603-181-00-X
CAS-No. : 1634-04-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225
Skin irritation (Category 2), H315

For the full text of the H-Statements mentioned in this Section, see Section 16.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word: Danger

Hazard Statements

H225	Highly flammable liquid and vapor.
H315	Causes skin irritation.

Precautionary Statements

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

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SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	:	MTBE Methyl tert-butyl ether
Formula	:	$C_5H_{12}O$
Molecular weight	:	88.15 g/mol
CAS-No.	:	1634-04-4
EC-No.	:	216-653-1
Index-No.	:	603-181-00-X

Component	Classification	Concentration
tert-butyl methyl ether		
	Flam. Liq. 2; Skin Irrit. 2; H225, H315	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact
After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed
After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Carbon dioxide (CO2) Foam Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides
Combustible.
Pay attention to flashback.
Vapors are heavier than air and may spread along floors.
Development of hazardous combustion gases or vapours possible in the event of fire.
Forms explosive mixtures with air at ambient temperatures.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Storage class
Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

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Component	CAS-No.	Value	Control parameters	Basis
tert-butyl methyl ether	1634-04-4	TWA	50 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Confirmed animal carcinogen with unknown relevance to humans		
		PEL	40 ppm 144 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 120 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Body Protection
Flame retardant antistatic protective clothing.

Respiratory protection
Recommended Filter type: Filter type AX
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when vapours/aerosols are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains. Risk of explosion.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Color: colorless
b)	Odor	characteristic
c)	Odor Threshold	0.053 ppm
d)	pH	No data available
e)	Melting point/freezing point	Melting point: -108.6 °C (-163.5 °F) at 1,013 hPa
f)	Initial boiling point and boiling range	55 - 56 °C 131 - 133 °F - lit.
g)	Flash point	-28 °C (-18 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 8.5 %(V) Lower explosion limit: 1.6 %(V)
k)	Vapor pressure	330 hPa at 25 °C (77 °F) - OECD Test Guideline 104
l)	Vapor density	No data available
m)	Density	0.74 g/cm3 at 25 °C (77 °F) - lit.
	Relative density	0.7420 °C
n)	Water solubility	42 g/l at 20 °C (68 °F) - OECD Test Guideline 105
o)	Partition coefficient: n-octanol/water	log Pow: 1.06 at 20 °C (68 °F) - OECD Test Guideline 107 - Bioaccumulation is not expected.
p)	Autoignition temperature	460 °C (860 °F) at 1013.0 hPa - DIN 51794
q)	Decomposition temperature	Distillable in an undecomposed state at normal pressure.
r)	Viscosity	0.409 mm2/s at 40 °C (104 °F) - OECD Test Guideline 114 - 0.464 mm2/s at 20 °C (68 °F) - OECD Test Guideline 114 -
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information

Surface tension	72.5 mN/m at 1.07g/l at 21.5 °C (70.7 °F) - Surface tension

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SECTION 10: Stability and reactivity

10.1 Reactivity
Vapors may form explosive mixture with air.

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
Violent reactions possible with:
Oxidizing agents
Strong acids
halogens
Strong bases

10.4 Conditions to avoid
Heat, flames and sparks.
Warming.

10.5 Incompatible materials
rubber, various plastics

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - male and female - > 2,000 mg/kg
(OECD Test Guideline 401)
Symptoms: Nausea, Vomiting, Pulmonary failure possible after aspiration of vomit., Aspiration may cause pulmonary edema and pneumonitis.
LC50 Inhalation - Rat - male and female - 4 h - 85 mg/l - vapor

(OECD Test Guideline 403)
Symptoms: Possible damages:, mucosal irritations
LD50 Dermal - Rat - male and female - > 2,000 mg/kg
(OECD Test Guideline 402)

Skin corrosion/irritation
Skin - Rabbit
Result: Skin irritation - 4 h
(OECD Test Guideline 404)
Remarks: Drying-out effect resulting in rough and chapped skin.

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation

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(OECD Test Guideline 405)

Respiratory or skin sensitization
Maximization Test - Guinea pig
Result: negative
(OECD Test Guideline 406)

Germ cell mutagenicity
Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
Test Type: Mutagenicity (mammal cell test): micronucleus.
Test system: mouse lymphoma cells
Metabolic activation: without metabolic activation
Method: OECD Test Guideline 473
Result: negative

Test Type: unscheduled DNA synthesis assay
Species: Mouse
Cell type: Liver cells
Application Route: inhalation (vapor)
Method: OECD Test Guideline 486
Result: negative

Test Type: Micronucleus test
Species: Mouse
Cell type: Bone marrow
Application Route: inhalation (vapor)
Method: US-EPA
Result: negative

Test Type: Mutagenicity (mammal cell test): chromosome aberration.
Species: Rat
Cell type: Bone marrow
Application Route: inhalation (vapor)
Method: US-EPA
Result: negative

Test Type: Transgenic rodent somatic cell gene mutation assay
Species: Rat
Cell type: Bone marrow
Application Route: inhalation (vapor)
Method: OECD Test Guideline 488
Result: negative

Carcinogenicity

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IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

Repeated dose toxicity - Rat - male and female - Oral - 90 d - NOAEL (No observed adverse effect level) - 3,000 mg/kg
Remarks: Subchronic toxicity

RTECS: KN5250000
Nausea, Vomiting, Dizziness, Central nervous system depression, Aspiration or inhalation may cause chemical pneumonitis., MTBE (methyl-tert-butyl ether) is reported to metabolize to tert-butyl alcohol and formaldehyde by microsomal demethylation, MTBE (methyl-tert-butyl ether) should be considered a "potential human carcinogen" due to an increase in leydig interstitial cell tumors of testes in male rats and an increase in lymphomas, leukemias, and uterine sarcomas in female rats., In another unpublished study MTBE was shown to be carcinogenic due to "increased incidence of a rare type of kidney tumor" in male rats and an "increase in the incidence of hepatocellular adenomas" in female mice.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Systemic effects:

After absorption of large quantities:

somnolence
Dizziness
agitation, spasms
CNS disorders
narcosis
Unconsciousness

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

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SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	semi-static test LC50 - Menidia beryllina - 574 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	flow-through test EC50 - Americamysis bahia (Mysid) - 187 mg/l - 96 h (US-EPA OPPTS 850.1035)
Toxicity to algae	static test IC50 - Pseudokirchneriella subcapitata (green algae) - 491 mg/l - 96 h
Toxicity to bacteria	static test EC10 - Pseudomonas putida - 710 mg/l - 18 h Remarks: (ECHA)
Toxicity to fish(Chronic toxicity)	flow-through test NOEC - Pimephales promelas (fathead minnow) - 299 mg/l - 31 d Remarks: (ECHA)
	flow-through test NOEC - Pimephales promelas (fathead minnow) - 450 mg/l - 31 d Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	flow-through test NOEC - Daphnia magna (Water flea) - 51 mg/l - 21 d (OPPTS 850.1300)

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 28 d Result: 0 % - Not readily biodegradable. (OECD Test Guideline 301D)

12.3 Bioaccumulative potential

Bioaccumulation	Cyprinus carpio (Carp) - 28 d at 25 °C(tert-butyl methyl ether) Bioconcentration factor (BCF): 1.5

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)
UN number: 2398 Class: 3 Packing group: II
Proper shipping name: Methyl tert-butyl ether
Reportable Quantity (RQ): 1000 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 2398 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: METHYL tert-BUTYL ETHER

IATA
UN number: 2398 Class: 3 Packing group: II
Proper shipping name: Methyl tert-butyl ether

SECTION 15: Regulatory information

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
tert-butyl methyl ether	1634-04-4	1000	1000

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard
Chronic Health Hazard

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

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tert-butyl methyl ether	1634-04-4	>= 90 - <= 100 %

US State Regulations

Massachusetts Right To Know

tert-butyl methyl ether	1634-04-4

Pennsylvania Right To Know

tert-butyl methyl ether	1634-04-4

Maine Chemicals of High Concern

tert-butyl methyl ether	1634-04-4

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.15 Revision Date: 09/07/2024 Print Date: 09/08/2024

The life science business of Merck KGaA, Darmstadt, Germany
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SAFETY DATA SHEET

Version 6.12
Revision Date 09/07/2024
Print Date 09/08/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Naphthalene

Product Number : 147141
Brand : Aldrich
Index-No. : 601-052-00-2
CAS-No. : 91-20-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable solids (Category 2), H228
Carcinogenicity (Category 2), H351
Short-term (acute) aquatic hazard (Category 1), H400

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Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word Warning

Hazard Statements

H228	Flammable solid.
H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	C10H8
Molecular weight	:	128.17 g/mol
CAS-No.	:	91-20-3
EC-No.	:	202-049-5
Index-No.	:	601-052-00-2

Component	Classification	Concentration
Naphthalene		
	Flam. Sol. 2; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H228, H351, H400, H410	<= 100 %

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For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Combustible.
Vapors are heavier than air and may spread along floors.
Forms explosive mixtures with air on intense heating.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture.

Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Keep away from heat and sources of ignition.

Storage class
Storage class (TRGS 510): 4.1B: Flammable solid hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Naphthalene	91-20-3	TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		TWA	10 ppm 50 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	15 ppm 75 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	10 ppm 50 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		PEL	0.1 ppm 0.5 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Naphthalene	91-20-3	1-Naphthol + 2-Naphthol			ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: Nitrile rubber

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Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Body Protection
Flame retardant antistatic protective clothing.

Respiratory protection
Recommended Filter type: Filter A-(P3)
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: flakes, granules Color: white
b)	Odor	aromatic
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/ range: 80 - 82 °C (176 - 180 °F) - lit.
f)	Initial boiling point and boiling range	218 °C 424 °F - lit.
g)	Flash point	78.5 °C (173.3 °F) - closed cup - ISO 2719
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	The substance or mixture is a flammable solid with the category 2. - Flammability (solids)
j)	Upper/lower flammability or	Upper explosion limit: 5.9 %(V) Lower explosion limit: 0.9 %(V)

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	explosive limits	
k)	Vapor pressure	0.072 hPa at 20 °C (68 °F) - OECD Test Guideline 104
l)	Vapor density	No data available
m)	Density	1.08 g/cm3 at 24.7 °C (76.5 °F) - OECD Test Guideline 109
	Relative density	No data available
n)	Water solubility	0.0308 g/l at 25 °C (77 °F) - OECD Test Guideline 105 - slightly soluble
o)	Partition coefficient: n-octanol/water	log Pow: 3.4 at 25 °C (77 °F) - OECD Test Guideline 107 - Bioaccumulation is not expected.
p)	Autoignition temperature	526 - 587 °C (979 - 1089 °F) at 1,013 hPa - DIN 51794
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information

Surface tension 31.8 mN/m at 100.0 °C (212.0 °F)

SECTION 10: Stability and reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating.
A range from approx. 15 Kelvin below the flash point is to be rated as critical.
The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Violent reactions possible with:
Oxidizing agents
chromium(VI) oxide
benzoyl chloride
aluminium chloride
Risk of explosion with:
nitrogen oxides

10.4 Conditions to avoid

Heat, flames and sparks.
Strong heating.

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10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Oral: No data available
LC50 Inhalation - Rat - male and female - 4 h - > 0.4 mg/l - vapor

(OECD Test Guideline 403)
LD50 Dermal - Rabbit - 20,000 mg/kg
Remarks: (RTECS)

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation - 24 h
Remarks: (ECHA)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation - 24 h
Remarks: (ECHA)

Respiratory or skin sensitization
Maximization Test - Guinea pig
Result: negative
(OECD Test Guideline 406)

Germ cell mutagenicity
Test Type: Mutagenicity (mammal cell test): chromosome aberration.
Test system: Chinese hamster ovary cells
Metabolic activation: Metabolic activation
Method: OECD Test Guideline 473
Result: positive
Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: unscheduled DNA synthesis assay
Species: Rat
Cell type: Liver cells
Application Route: Oral
Method: OECD Test Guideline 486
Result: negative

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Test Type: Micronucleus test
Species: Mouse
Cell type: Bone marrow
Application Route: Intraperitoneal
Method: US-EPA
Result: negative
Remarks: (ECHA)

Carcinogenicity
Suspected of causing cancer.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Naphthalene)

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. (Naphthalene)

NTP: RAHC - Reasonably anticipated to be a human carcinogen (Naphthalene)

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. (Naphthalene)

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

Repeated dose toxicity - Rat - male and female - Oral - 91 Days - NOAEL (No observed adverse effect level) - 200 mg/kg - LOAEL (Lowest observed adverse effect level) - 400 mg/kg

Repeated dose toxicity - Mouse - male and female - Oral - 90 Days - NOAEL (No observed adverse effect level) - 100 mg/kg

Repeated dose toxicity - Rat - male and female - Dermal - 90 Days - NOAEL (No observed adverse effect level) - 1,000 mg/kg

Repeated dose toxicity - Rat - male and female - inhalation (vapor) - 90 Days - NOAEL (No observed adverse effect level) - 300 mg/kg

RTECS: QJ0525000
Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., Naphthalene is retinotoxic and systemic absorption of its vapors above 15ppm, may result in:, cataracts,

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optic neuritis, corneal injury, Eye irritation, Ingestion may provoke the following symptoms:, hemolytic anemia, hemoglobinuria, Nausea, Headache, Vomiting, Gastrointestinal disturbance, Convulsions, anemia, Kidney injury may occur., Seizures., Coma.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After absorption:

Headache
Stomach/intestinal disorders
Tremors
Convulsions
Changes in the blood count

Other dangerous properties can not be excluded.

This substance should be handled with particular care.

Heart -

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 1.6 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 2.16 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	static test EC50 - Pseudokirchneriella subcapitata (green algae) - 2.96 mg/l - 4 h (US-EPA) Remarks: (ECHA)
Toxicity to fish(Chronic toxicity)	flow-through test LC50 - Oncorhynchus kisutch (coho salmon) - 2.1 mg/l - 96 h Remarks: (ECHA)
	flow-through test NOEC - Oncorhynchus kisutch (coho salmon) - 0.37 mg/l - 40 Days Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	static test NOEC - Daphnia pulex (Water flea) - 0.59 mg/l - 125 d Remarks: (ECHA)

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12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d
Result: 2 % - Not readily biodegradable.
(OECD Test Guideline 302C)

12.3 Bioaccumulative potential

Bioaccumulation Cyprinus carpio (Carp) - 56 d
at 25 °C(Naphthalene)

Bioconcentration factor (BCF): 36.5 - 168
(OECD Test Guideline 305)

Remarks: Bioaccumulation is unlikely.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)

UN number: 1334 Class: 4.1 Packing group: III
Proper shipping name: Naphthalene, refined
Reportable Quantity (RQ): 100 lbs
Marine pollutant: yes Poison Inhalation Hazard: No

IMDG

UN number: 1334 Class: 4.1 Packing group: III EMS-No: F-A, S-G
Proper shipping name: NAPHTHALENE, REFINED

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Marine pollutant : yes

IATA
UN number: 1334 Class: 4.1 Packing group: III
Proper shipping name: Naphthalene, refined

SECTION 15: Regulatory information

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Naphthalene	91-20-3	100	100

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard
Chronic Health Hazard

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know
Naphthalene 91-20-3

Maine Chemicals of High Concern
Product does not contain any listed chemicals

Vermont Chemicals of High Concern
Product does not contain any listed chemicals

Washington Chemicals of High Concern
Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:
TSCA : All substances listed as active on the TSCA inventory

TSCA list
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.12 Revision Date: 09/07/2024 Print Date: 09/08/2024

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SAFETY DATA SHEET

Revision Date 03-May-2012 **Revision Number** 2

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Description:	**n-Butylbenzene**
Cat No.	**107850000; 107850050; 107850500; 107852500**
Synonyms	1-Phenylbutane

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use	Laboratory chemicals
Uses advised against	No Information available

Details of the supplier of the safety data sheet

Company
Acros Organics BVBA
Janssen Pharmaceuticalaan 3a
2440 Geel, Belgium
E-mail address begel.sdsdesk@thermofisher.com

Emergency Telephone Number
For information in the US, call: 001-800-ACROS-01
For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99
Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300
CHEMTREC Phone Number, Europe: 001-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
REGULATION (EC) No 1272/2008

Flammable liquids.	Category 3

Classification according to EU Directives 67/548/EEC or 1999/45/EC
For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16
R-phrase(s) none

Label Elements

SECTION 2. HAZARDS IDENTIFICATION

Signal Word **Warning**

Hazard Statements
H226 - Flammable liquid and vapor

Precautionary Statements - EU (§28, 1272/2008)
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Other Hazards

No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC-No.	Weight %	CAS-No	67/548/EEC Classification	CLP Classification - Regulation (EC) No 1272/2008	REACH No.
Butyl benzene 104-51-8	EEC No. 203-209-7	> 99	104-51-8	-	Flam. Liq. 3 (H226)	-

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

SECTION 4. FIRST AID MEASURES

Description of first aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

Ingestion Do not induce vomiting. Clean mouth with water. Aspiration hazard. Get medical attention.

Inhalation Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.

Notes to Physician Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media
Water spray. Carbon dioxide (CO_2). Dry chemical. Use water spray to cool unopened containers. chemical foam. Do not use a solid water stream as it may scatter and spread fire.

Extinguishing media which must not be used for safety reasons
No information available.

Special hazards arising from the substance or mixture

Combustible material. Flammable. Vapors may travel to source of ignition and flash back. Containers may explode when heated.

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Environmental precautions

Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist. Use explosion-proof equipment. Use only non-sparking tools.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat and sources of ignition.

Specific End Uses

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Biological limit values	This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.
Derived No Effect Level (DNEL)	No information available.
Predicted No Effect Concentration (PNEC)	No information available.

Exposure controls

Engineering Measures	Ensure adequate ventilation, especially in confined areas
Personal protective equipment	
Eye Protection	Goggles
Hand Protection	Protective gloves
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice
Environmental exposure controls	No information available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Colorless
odor	odorless
pH	No information available.
Vapor Pressure	1.33 hPa @ 23 °C
Vapor Density	4.6
Boiling Point/Range	183°C / 361.4°F@ 760 mmHg
Melting Point/Range	-88°C / -126.4°F
Flash Point	59°C / 138.2°F
Autoignition Temperature	412°C / 773.6°F
Explosion Limits	
Lower	0.8
Upper	5.8
Water Solubility	Insoluble
Specific Gravity	0.860
Molecular Formula	C10 H14
Molecular Weight	134.22

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions .	No information available.

Conditions to Avoid

Keep away from open flames, hot surfaces and sources of ignition, Incompatible products.

Incompatible Materials

Strong oxidizing agents, oxygen.

Hazardous Decomposition Products

Carbon monoxide (CO). Carbon dioxide (CO_2).

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Chronic Toxicity

Carcinogenicity	There are no known carcinogenic chemicals in this product
Sensitization	No information available.
Mutagenic Effects	No information available
Reproductive Effects	No information available.
Developmental Effects	No information available.
Target Organs	No information available.
Other Adverse Effects	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information

Endocrine Disruptor Information

SECTION 11. TOXICOLOGICAL INFORMATION

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Butyl benzene	Group III Chemical		

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity effects Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

Persistence and degradability

No information available

Bioaccumulative potential

No information available.

Component	log Pow
Butyl benzene	4.2

Mobility in soil

Results of PBT and vPvB assessment

Other adverse effects

No information available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues / Unused Products Dispose of in accordance with local regulations

Contaminated Packaging Empty containers should be taken to local recyclers for disposal

SECTION 14. TRANSPORT INFORMATION

IMDG/IMO

SECTION 14. TRANSPORT INFORMATION

UN-No	2709
Hazard Class	3
Packing Group	III
Proper Shipping Name	BUTYLBENZENES

ADR

UN-No	2709
Hazard Class	3
Packing Group	III
Proper Shipping Name	BUTYLBENZENES

IATA

UN-No	2709
Hazard Class	3
Packing Group	III
Proper Shipping Name	BUTYLBENZENES

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Butyl benzene	203-209-7	-		X	X	-	X	X	X	X	-

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
CHINA - China Inventory of Existing Chemical Substances
AICS - Inventory of Chemical Substances
KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment

SECTION 16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3
No information available.

Revision Date 03-May-2012
Revision Summary

Reason for revision Not applicable
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET

Creation Date 04-Oct-2010 **Revision Date** 10-Feb-2015 **Revision Number** 1

1. Identification

Product Name **Nickel, powder**

Cat No. : **AC193610000; AC193610250; AC193611000; AC193615000**

Synonyms Raney alloy

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity - (repeated exposure)	Category 1
Target Organs - Kidney, Blood.	

Label Elements

Signal Word
Danger

Hazard Statements
May cause an allergic skin reaction
Causes damage to organs through prolonged or repeated exposure
Suspected of causing cancer

Precautionary Statements

Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Contaminated work clothing should not be allowed out of the workplace
Response
IF exposed or concerned: Get medical attention/advice
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
Storage
Store locked up
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Harmful to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Nickel powder	7440-02-0	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms/effects May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature 400 °C / 752 °F
Explosion Limits
Upper No data available
Lower No data available

Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Combustible material.

Hazardous Combustion Products
Nickel oxides.
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
3	1	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Avoid dust formation.

Environmental Precautions Should not be released into the environment. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

7. Handling and storage

Handling Use only under a chemical fume hood. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Do not breathe vapors/dust. Do not ingest.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Nickel powder	TWA: 1.5 mg/m³	(Vacated) TWA: 1 mg/m³ TWA: 1 mg/m³	IDLH: 10 mg/m³ TWA: 0.015 mg/m³

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Nickel powder	TWA: 1 mg/m³	TWA: 1 mg/m³	TWA: 1 mg/m³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Brown
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	1455 °C / 2651 °F
Boiling Point/Range	2730 °C / 4946 °F
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1 mmHg @ 1810 °C
Vapor Density	No information available
Relative Density	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	400 °C / 752 °F
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	Ni
Molecular Weight	58.7

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Nickel oxides

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Nickel powder	9000 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization May cause sensitization by skin contact Nickel and nickel compounds may cause a form of dermatitis known as nickel itch. May cause an allergic skin reaction

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Nickel powder	7440-02-0	Group 2B	Reasonably Anticipated	Not listed	X	Not listed

IARC: (International Agency for Research on Cancer) *Group 2B - Possibly Carcinogenic to Humans*

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure Kidney Blood

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing
Endocrine Disruptor Information No information available

Other Adverse Effects See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity
Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Do not empty into drains. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Nickel powder	0.18 mg/L EC50 = 72 h 0.174 - 0.311 mg/L EC50 96 h	10.4 mg/L LC50 96 h 1.3 mg/L LC50 96 h 100 mg/L LC50 96 h	Not listed	1 mg/L EC50 = 48 h 100 mg/L EC50 > 48 h

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility No information available.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT
- **UN-No** UN3089
- **Proper Shipping Name** METAL POWDERS, FLAMMABLE, N.O.S.
- **Hazard Class** 4.1
- **Packing Group** II

TDG
- **UN-No** UN3089
- **Proper Shipping Name** METAL POWDERS, FLAMMABLE, N.O.S.
- **Hazard Class** 4.1
- **Packing Group** II

IATA

UN-No 3089
Proper Shipping Name METAL POWDERS, FLAMMABLE, N.O.S.
Hazard Class 4.1
Packing Group II

IMDG/IMO

UN-No 3089
Proper Shipping Name METAL POWDERS, FLAMMABLE, N.O.S.
Hazard Class 4.1
Packing Group II

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Nickel powder	X	X	-	231-111-4	-		X	-	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Nickel powder	7440-02-0	>95	0.1

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Nickel powder	-	-	X	X

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Nickel powder	X		-

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Nickel powder	100 lb	-

California Proposition 65 This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Nickel powder	7440-02-0	Carcinogen	-	Carcinogen

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Nickel powder	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D2A Very toxic materials

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 04-Oct-2010
Revision Date 10-Feb-2015
Print Date 10-Feb-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
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End of SDS

Safety Data Sheet
acc. to OSHA HCS

Printing date 09/30/2022 Revision date 09/30/2022

1 Identification

· **Product identifier**

· **Trade name:** **Nitrite Standard**

· **Article number:** 780016

· **Application of the substance / the mixture**
This product is for research use - Not for human or veterinary diagnostic or therapeutic use.

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**
Cayman Chemical Co.
1180 E. Ellsworth Rd.
Ann Arbor, MI 48108
USA

· **Information department:** Product safety department

· **Emergency telephone number:**
During normal opening times: +1 (734) 971-3335
US/CANADA: 800-424-9300
Outside US/CANADA: 703-741-5970

2 Hazard(s) identification

· **Classification of the substance or mixture**

GHS03 Flame over circle

Ox. Sol. 3 H272 May intensify fire; oxidizer.

GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

GHS09 Environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

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Trade name: Nitrite Standard

(Contd. from page 1)

Eye Irrit. 2A	H319 Causes serious eye irritation.
STOT SE 3	H335 May cause respiratory irritation.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**

GHS03 GHS06 GHS07 GHS09

· **Signal word** Danger

· **Hazard-determining components of labeling:**
Sodium nitrite
Tris base
· **Hazard statements**
H272 May intensify fire; oxidizer.
H301 Toxic if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
· **Precautionary statements**

P210	Keep away from heat.
P220	Keep/Store away from clothing/combustible materials.
P221	Take any precaution to avoid mixing with combustibles.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P302+P352	If on skin: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a poison center/doctor if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use CO_2, powder or water spray to extinguish.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 3)

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Trade name: Nitrite Standard

(Contd. from page 2)

· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

Health = 2
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 2
Fire = 0
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 77-86-1 RTECS: TY2900000	Tris base	63.68%
CAS: 7632-00-0 RTECS: RA1225000	Sodium nitrite	36.32%

4 First-aid measures

· **Description of first aid measures**
· **General information:**
Immediately remove any clothing soiled by the product.
In case of irregular breathing or respiratory arrest provide artificial respiration.
· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:** Do not induce vomiting; immediately call for medical help.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed**
May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.
No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

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Trade name: Nitrite Standard

(Contd. from page 3)

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
Use fire fighting measures that suit the environment.
A solid water stream may be inefficient.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.
· **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
77-86-1	Tris base	18 mg/m³
7632-00-0	Sodium nitrite	6.4 mg/m³

· **PAC-2:**		
77-86-1	Tris base	190 mg/m³
7632-00-0	Sodium nitrite	71 mg/m³

· **PAC-3:**		
77-86-1	Tris base	1,200 mg/m³
7632-00-0	Sodium nitrite	240 mg/m³

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:** Store in accordance with information listed on the product insert.
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** Keep receptacle tightly sealed.

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Trade name: Nitrite Standard

(Contd. from page 4)

· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
· **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:**

Tightly sealed goggles

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Trade name: Nitrite Standard

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Lyophilized powder
Color:	According to product specification
· **Odor:**	Characteristic
· **Odor threshold:**	Not determined.
· **pH-value:**	Not applicable.
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· **Flash point:**	Not applicable.
· **Flammability (solid, gaseous):**	Not determined.
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure:**	Not applicable.
· **Density at 20 °C (68 °F):**	1.32233 g/cm³ (11.03484 lbs/gal)
· **Bulk density:**	1,322 kg/m³
· **Relative density**	Not determined.
· **Vapor density**	Not applicable.
· **Evaporation rate**	Not applicable.
· **Solubility in / Miscibility with**	
Water:	Soluble.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· **Solvent content:**	
VOC content:	0.00 %
Solids content:	100.0 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.

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· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
ATE (Acute Toxicity Estimate)		
Oral	LD50	234 mg/kg (rat)

77-86-1 Tris base		
Oral	TDLO	3,000 ml/kg (mouse)
	LD50	5,500 mg/kg (mouse)
		5,900 mg/kg (rat)
	Intraperitoneal LD50	3,350 mg/kg (mouse)
	Intrapritoneal LD50	3,350 mg/kg (mouse)
7632-00-0 Sodium nitrite		
Oral	LDLO	321 mg/kg (man)
	LD50	175 mg/kg (mouse)
		85 mg/kg (rat)
	Subcutaneous LD50	96,600 µg/kg (rat)
	Intraperitoneal LD50	158 mg/kg (mouse)
	Subcutaneous LD50	150 mg/kg (mouse)

· **Primary irritant effect:**
· **on the skin:** Irritant to skin and mucous membranes.
· **on the eye:** Irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Toxic
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.

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Trade name: Nitrite Standard

(Contd. from page 7)

· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Ecotoxical effects:**
· **Remark:** Very toxic for fish
· **Additional ecological information:**
· **General notes:**
Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Very toxic for aquatic organisms
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**	
· **DOT, IMDG, IATA**	UN3077
· **UN proper shipping name**	
· **DOT**	Environmentally hazardous substance, solid, n.o.s.
· **IMDG**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SODIUM NITRITE), MARINE POLLUTANT
· **IATA**	Environmentally hazardous substance, solid, n.o.s. (SODIUM NITRITE)
· **Transport hazard class(es)**	
· **DOT**	

· **Class**	9 Miscellaneous dangerous substances and articles

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Trade name: Nitrite Standard

(Contd. from page 8)

· **Label**	9
· **IMDG, IATA**	
· **Class**	9 Miscellaneous dangerous substances and articles
· **Label**	9
· **Packing group**	
· **DOT, IMDG, IATA**	III
· **Environmental hazards:**	
· **Marine pollutant:**	Symbol (fish and tree)
· **Special marking (IATA):**	Symbol (fish and tree)
· **Special precautions for user**	Warning: Miscellaneous dangerous substances and articles
· **Hazard identification number (Kemler code):**	90
· **EMS Number:**	F-A,S-F
· **Segregation groups**	Nitrites and their mixtures
· **Stowage Category**	A
· **Stowage Code**	SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **DOT**	
· **Quantity limitations**	On passenger aircraft/rail: 400 kg On cargo aircraft only: 400 kg
· **IMDG**	
· **Limited quantities (LQ)**	5 kg
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· **IATA**	
· **Remarks:**	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
· **UN "Model Regulation":**	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SODIUM NITRITE), 9, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.

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Safety Data Sheet
acc. to OSHA HCS

Printing date 09/30/2022 Revision date 09/30/2022

Trade name: Nitrite Standard

(Contd. from page 9)

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

7632-00-0	Sodium nitrite

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

· **Department issuing SDS:** Environment protection department.
· **Contact:** -
· **Date of preparation / last revision** 09/30/2022 / -
· **Abbreviations and acronyms:**
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)

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Trade name: Nitrite Standard

(Contd. from page 10)

HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Ox. Sol. 3: Oxidizing solids – Category 3
Acute Tox. 3: Acute toxicity – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/28/2019 Version Number 3 Reviewed on 03/23/2019

*

1 Identification

· **Product identifier**

· **Trade name: n-Propylbenzene Standard (1X1 mL)**

· **Part number:** EPA-1045-1
· **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA

· **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
· **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

· **Classification of the substance or mixture**

GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.

GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.
STOT SE 1 H370 Causes damage to organs.

· **Label elements**
· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**

GHS02 GHS06 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
methanol
· **Hazard statements**
Highly flammable liquid and vapor.
Toxic if inhaled.
Suspected of causing cancer.

(Contd. on page 2)

(Contd. of page 1)

Causes damage to organs.

· **Precautionary statements**

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
In case of fire: Use for extinction: CO2, powder or water spray.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**

Health = 1
Fire = 3
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = *1
Fire = 3
Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

67-56-1	methanol	99.368%
103-65-1	propylbenzene	0.632%

US

(Contd. on page 3)

(Contd. of page 2)

4 First-aid measures

· **Description of first aid measures**
· **General information:**
Immediately remove any clothing soiled by the product.
Remove breathing apparatus only after contaminated clothing have been completely removed.
In case of irregular breathing or respiratory arrest provide artificial respiration.
· **After inhalation:**
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
· **Advice for firefighters**
· **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
67-56-1	methanol	530 ppm
103-65-1	propylbenzene	3.7 ppm

(Contd. on page 4)

(Contd. of page 3)

· PAC-2:		
67-56-1	methanol	2,100 ppm
103-65-1	propylbenzene	41 ppm

· PAC-3:		
67-56-1	methanol	7200* ppm
103-65-1	propylbenzene	240 ppm

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Store in a cool location.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· Components with limit values that require monitoring at the workplace:	
67-56-1 methanol	
PEL	Long-term value: 260 mg/m³, 200 ppm
REL	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
TLV	Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI

· Ingredients with biological limit values:	
67-56-1 methanol	
BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)

(Contd. on page 5)

(Contd. of page 4)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
· **Breathing equipment:**
When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.
Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.
· **Protection of hands:**
Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.
· **Material of gloves**
For normal use: nitrile rubber, 11-13 mil thickness
For direct contact with the chemical: butyl rubber, 12-15 mil thickness
· **Penetration time of glove material**
For normal use: nitrile rubber: 1 hour
For direct contact with the chemical: butyl rubber: >4 hours
· **Eye protection:**

Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**
· **General Information**
· **Appearance:**

Form:	Fluid
Color:	Colorless
· **Odor:**	Alcohol-like
· **Odor threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
Melting point/Melting range:	-98 °C (-144.4 °F)
Boiling point/Boiling range:	64.7 °C (148.5 °F)
· **Flash point:**	9 °C (48.2 °F)
· **Flammability (solid, gaseous):**	Not applicable.

(Contd. on page 6)

(Contd. of page 5)

· **Ignition temperature:**	455 °C (851 °F)
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· **Explosion limits:**	
Lower:	5.5 Vol %
Upper:	44 Vol %
· **Vapor pressure at 20 °C (68 °F):**	100 hPa (75 mm Hg)
· **Density at 20 °C (68 °F):**	0.80063 g/cm³ (6.68126 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Not miscible or difficult to mix.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
Organic solvents:	100.0 %
VOC content:	100.00 %
	800.6 g/l / 6.68 lb/gal
Solids content:	0.0 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
ATE (Acute Toxicity Estimate)		
Inhalative	LC50/4 h	3.02 mg/L

(Contd. on page 7)

(Contd. of page 6)

67-56-1 methanol		
Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)
103-65-1 propylbenzene		
Oral	LD50	6,040 mg/kg (rat)

· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Toxic

· **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)
None of the ingredients is listed.

· NTP (National Toxicology Program)
None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 8)

(Contd. of page 7)

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

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14 Transport information

· **Not Regulated, De minimus Quantities**	-
· **UN-Number**	
· **DOT, IMDG, IATA**	UN1230
· **UN proper shipping name**	
· **DOT**	Methanol solution
· **IMDG, IATA**	METHANOL solution
· **Transport hazard class(es)**	
· **DOT**	

· **Class**	3 Flammable liquids
· **Label**	3, 6.1
· **IMDG**	

· **Class**	3 Flammable liquids
· **Label**	3/6.1
· **IATA**	

· **Class**	3 Flammable liquids
· **Label**	3 (6.1)
· **Packing group**	
· **DOT, IMDG, IATA**	II
· **Environmental hazards:**	Not applicable.
· **Special precautions for user**	Warning: Flammable liquids
· **Danger code (Kemler):**	336
· **EMS Number:**	F-E,S-D
· **Stowage Category**	B
· **Stowage Code**	SW2 Clear of living quarters.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.

(Contd. on page 9)

(Contd. of page 8)

· **Transport/Additional information:**

· **DOT**

· **Quantity limitations**	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L

· **IMDG**

· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **UN "Model Regulation":**	UN 1230 METHANOL SOLUTION, 3 (6.1), II

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

67-56-1	methanol

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

67-56-1	methanol

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

(Contd. on page 10)

(Contd. of page 9)

16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

· **Department issuing SDS:** Document Control / Regulatory
· **Contact:** regulatory@ultrasci.com
· **Date of preparation / last revision** 03/28/2019 / 2
· **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 3: Acute toxicity – Category 3
Carc. 2: Carcinogenicity – Category 2
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
· *** Data compared to the previous version altered.**

SAFETY DATA SHEET

Version 4.7
Revision Date 05/27/2015
Print Date 04/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	*o*-Cresol
Product Number	:	C85700
Brand	:	Sigma-Aldrich
Index-No.	:	604-004-00-9
CAS-No.	:	95-48-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Dermal (Category 3), H311
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Acute aquatic toxicity (Category 2), H401
Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H301 + H311	Toxic if swallowed or in contact with skin
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P260	Do not breathe dust or mist.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.

P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : 2-Methylphenol

Formula : C_7H_8O
Molecular weight : 108.14 g/mol
CAS-No. : 95-48-7
EC-No. : 202-423-8
Index-No. : 604-004-00-9

Hazardous components

Component	Classification	Concentration
o-Cresol		
	Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 2; Aquatic Chronic 2; H301 + H311, H314, H318, H411	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.Continue rinsing eyes during transport to hospital.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Air and light sensitive. Keep in a dry place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
o-Cresol	95-48-7	TWA	5.000000 ppm 22.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	Remarks	Skin contact does contribute to exposure.		

		TWA	5.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Eye, skin, & Upper Respiratory Tract irritation Adopted values or notations enclosed are those for which changes are proposed in the NIC 2010 Revision or addition to the notice of intended changes See Notice of Intended Changes (NIC) Danger of cutaneous absorption		
		TWA	2.300000 ppm 10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	20.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen Danger of cutaneous absorption		

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 480 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.2 mm
Break through time: 30 min
Material tested:Dermatril® P (KCL 743 / Aldrich Z677388, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: white
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	4.5 at 25.00000 g/l
e)	Melting point/freezing point	Melting point/range: 29 - 31 °C (84 - 88 °F) - lit.
f)	Initial boiling point and boiling range	191 °C (376 °F) - lit.
g)	Flash point	81.0 °C (177.8 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 58 %(V) Lower explosion limit: 1.3 %(V)
k)	Vapour pressure	3.1 hPa (2.3 mmHg) at 60.0 °C (140.0 °F) 1.3 hPa (1.0 mmHg) at 38.2 °C (100.8 °F) 0.4 hPa (0.3 mmHg) at 20.0 °C (68.0 °F)
l)	Vapour density	No data available
m)	Relative density	1.05 g/cm3 at 20.00 °C (68.00 °F)
n)	Water solubility	25 g/l at 20 °C (68 °F)
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	599.0 °C (1,110.2 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 121.0 mg/kg
Remarks: Behavioral:Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration:Dyspnea. Gastrointestinal:Ulceration or bleeding from stomach.

LC50 Inhalation - Rat - 1 h - > 1,220 mg/m3
Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Lacrimation. Behavioral:Somnolence (general depressed activity).

LD50 Dermal - Rabbit - 890.0 mg/kg

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Severe skin irritation - 24 h
(Draize Test)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Severe eye irritation
(Draize Test)

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: GO6300000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Central nervous system depression, Diarrhoea, Gastrointestinal disturbance

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Leuciscus idus (Golden orfe) - 10.00 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - 15.8 mg/l - 48 h
Toxicity to algae	EC50 - SELENASTRUM - 100.00 mg/l - 72 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3455 Class: 6.1 (8) Packing group: II
Proper shipping name: Cresols, solid
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 3455 Class: 6.1 (8) Packing group: II EMS-No: F-A, S-B
Proper shipping name: CRESOLS, SOLID

IATA
UN number: 3455 Class: 6.1 (8) Packing group: II
Proper shipping name: Cresols, solid

15. REGULATORY INFORMATION

SARA 302 Components
The following components are subject to reporting levels established by SARA Title III, Section 302:

	CAS-No.	Revision Date
o-Cresol	95-48-7	2007-07-01

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
o-Cresol	95-48-7	2007-07-01

Massachusetts Right To Know Components

	CAS-No.	Revision Date
o-Cresol	95-48-7	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
o-Cresol	95-48-7	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
o-Cresol	95-48-7	2007-07-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
H301	Toxic if swallowed.
H301 + H311	Toxic if swallowed or in contact with skin
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

HMIS Rating

Health hazard:	3
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	3
Fire Hazard:	2
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.7 Revision Date: 05/27/2015 Print Date: 04/01/2016

SAFETY DATA SHEET

Version 4.10
Revision Date 11/12/2015
Print Date 02/07/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	*p*-Cresol
Product Number	:	W233706
Brand	:	Aldrich
Index-No.	:	604-004-00-9
CAS-No.	:	106-44-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Dermal (Category 3), H311
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Acute aquatic toxicity (Category 2), H401
Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H301 + H311	Toxic if swallowed or in contact with skin
H314	Causes severe skin burns and eye damage.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P260	Do not breathe dust or mist.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.

P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/ physician.
P322	Specific measures (see supplemental first aid instructions on this label).
P361	Remove/Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	4-Methylphenol
Formula	:	C_7H_8O
Molecular weight	:	108.14 g/mol
CAS-No.	:	106-44-5
EC-No.	:	203-398-6
Index-No.	:	604-004-00-9

Hazardous components

Component	Classification	Concentration
p-Cresol		
	Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 2; Aquatic Chronic 2; H301 + H311, H314, H411	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

hygroscopic Air and light sensitive. Handle and store under inert gas.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
p-Cresol	106-44-5	TWA	2.3 ppm 10 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	5 ppm 22 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	Remarks	Skin designation The value in mg/m3 is approximate.		

		TWA	20 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen Danger of cutaneous absorption		

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 480 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.2 mm
Break through time: 30 min
Material tested:Dermatril® P (KCL 743 / Aldrich Z677388, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing	Melting point/range: 31 - 37 °C (88 - 99 °F)

	point	Melting point/range: 32 - 34 °C (90 - 93 °F) - lit.
f)	Initial boiling point and boiling range	202 °C (396 °F) - lit.
g)	Flash point	85.0 °C (185.0 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Lower explosion limit: 1.1 %(V)
k)	Vapour pressure	1.3 hPa (1.0 mmHg) at 20.0 °C (68.0 °F)
l)	Vapour density	No data available
m)	Relative density	1.034 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 1.94
p)	Auto-ignition temperature	559.0 °C (1,038.2 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Oxidizing agents, Bases

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 207.0 mg/kg
Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Olfaction:Other changes. Behavioral:Convulsions or effect on seizure threshold. Gastrointestinal:Ulceration or bleeding from stomach.

LC50 Inhalation - Rat - 1 h - > 710 mg/m3

LD50 Dermal - Rabbit - 301.0 mg/kg
Remarks: Behavioral:Tremor. Gastrointestinal:Changes in structure or function of salivary glands. Kidney, Ureter, Bladder:Other changes.

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Severe skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Severe eye irritation

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: GO6475000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, laryngitis, Dizziness, Cardiovascular effects., Muscle cramps/spasms., Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

Kidney -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - other fish - 16.00 - 24.00 mg/l - 24 h
	LC50 - Oncorhynchus mykiss (rainbow trout) - 7.9 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - 1.4 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
Does not bioaccumulate.

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3455 Class: 6.1 (8) Packing group: II
Proper shipping name: Cresols, solid
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 3455 Class: 6.1 (8) Packing group: II EMS-No: F-A, S-B
Proper shipping name: CRESOLS, SOLID

IATA
UN number: 3455 Class: 6.1 (8) Packing group: II
Proper shipping name: Cresols, solid

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
p-Cresol	106-44-5	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
p-Cresol	106-44-5	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
p-Cresol	106-44-5	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
p-Cresol	106-44-5	2007-07-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
H301	Toxic if swallowed.
H301 + H311	Toxic if swallowed or in contact with skin
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.

HMIS Rating

Health hazard:	3
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	3
Fire Hazard:	2
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.10 Revision Date: 11/12/2015 Print Date: 02/07/2016

SAFETY DATA SHEET

Version 4.9
Revision Date 12/29/2015
Print Date 02/22/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Pentachlorophenol
Product Number	:	P2604
Brand	:	Aldrich
Index-No.	:	604-002-00-8
CAS-No.	:	87-86-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 2), H330
Acute toxicity, Dermal (Category 3), H311
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Carcinogenicity (Category 2), H351
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H301 + H311	Toxic if swallowed or in contact with skin
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.

H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	C_6HCl_5O
Molecular weight	:	266.34 g/mol
CAS-No.	:	87-86-5
EC-No.	:	201-778-6
Index-No.	:	604-002-00-8

Hazardous components

Component	Classification	Concentration
Pentachlorophenol		
	Acute Tox. 3; Acute Tox. 2; Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2A; Carc. 2; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 2; H301 + H311, H315, H319, H330, H335, H351, H400, H411	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Pentachlorophenol	87-86-5	TWA	0.500000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Cardiac impairment Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		TWA	0.500000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		
		TWA	0.500000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		
		TWA	0.5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Cardiac impairment 2015 Adoption Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		STEL	1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Cardiac impairment 2015 Adoption Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Pentachlorophenol	87-86-5	pentachlorophenol	2.0000 mg/g	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	Prior to last shift of workweek			
		Free PCP	5.0000 mg/l	In plasma	ACGIH - Biological Exposure Indices (BEI)
		End of shift (As soon as possible after exposure ceases)			
		pentachlorophenol		Urine	ACGIH - Biological Exposure Indices (BEI)

		Prior to last shift of workweek

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Splash contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 120 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: light red
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 165 - 180 °C (329 - 356 °F)
f)	Initial boiling point and boiling range	310 °C (590 °F)
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower	No data available

	flammability or explosive limits	
k)	Vapour pressure	53.3 hPa (40.0 mmHg) at 211.2 °C (412.2 °F)
l)	Vapour density	No data available
m)	Relative density	1.978 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 5.12
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents, Strong bases

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 27 mg/kg
Remarks: Vascular:BP elevation not charactertized in autonomic section. Endocrine:Hyperglycemia. Nutritional and Gross Metabolic:Changes in:Body temperature increase.

LC50 Inhalation - Rat - 355 mg/m3
Remarks: Behavioral:Excitement. Behavioral:Muscle contraction or spasticity. Lungs, Thorax, or Respiration:Dyspnea.

LD50 Dermal - Rat - 96.0 mg/kg
Remarks: Behavioral:Excitement. Behavioral:Muscle contraction or spasticity. Lungs, Thorax, or Respiration:Dyspnea.

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Open irritation test - 24.00 h

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Mild eye irritation - 24.00 h

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

The evidence for carcinogenicity of pentachlorophenol (PCP) is based on assays that utilized less than pure PCP. Contaminants of PCP include: tri- or tetra- chlorophenol, hexachlorobenzene, polychlorinated dibenzo-p-dioxins, or polychlorinated dibenzofurans. Indications are that positive evidence for carcinogenicity is from the contaminant(s) and not the PCP. This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Pentachlorophenol)
NTP:	Reasonably anticipated to be a human carcinogen (Pentachlorophenol)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Specific target organ toxicity - single exposure
May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

Convulsions

Kidney -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Cyprinodon variegatus (sheepshead minnow) - 0.16 - 0.5 mg/l - 96.0 h
	LC50 - Carassius auratus (goldfish) - 0.16 - 0.38 mg/l - 96.0 h
	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.075 mg/l - 96.0 h
	NOEC - other fish - 0.01 mg/l - 24.0 h
	LOEC - other fish - 0.1 mg/l - 24.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.30 - 1.30 mg/l - 48 h
Toxicity to algae	EC50 - No information available. - 0.36 mg/l - 10 d
	EC50 - Chlorella vulgaris (Fresh water algae) - 10.30 mg/l - 96 h
	Growth inhibition EC50 - Scenedesmus quadricauda (Green algae) - 0.08 mg/l - 96 h

12.2 Persistence and degradability

Biodegradability Result: 99 % - Biodegradable

12.3 Bioaccumulative potential

Bioaccumulation Oncorhynchus mykiss (rainbow trout) - 144 h - 0.0912 mg/l

Bioconcentration factor (BCF): 482

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 3155 Class: 6.1 Packing group: II
Proper shipping name: Pentachlorophenol
Reportable Quantity (RQ): 10 lbs

Poison Inhalation Hazard: No

IMDG

UN number: 3155 Class: 6.1 Packing group: II EMS-No: F-A, S-A
Proper shipping name: PENTACHLOROPHENOL
Marine pollutant: yes

IATA

UN number: 3155 Class: 6.1 Packing group: II
Proper shipping name: Pentachlorophenol

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Pentachlorophenol	87-86-5	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Pentachlorophenol	87-86-5	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Pentachlorophenol	87-86-5	2007-07-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
Pentachlorophenol	87-86-5	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H301	Toxic if swallowed.
H301 + H311	Toxic if swallowed or in contact with skin
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.

HMIS Rating

Health hazard:	3
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	1

NFPA Rating

Health hazard:	4
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.9 Revision Date: 12/29/2015 Print Date: 02/22/2016

SAFETY DATA SHEET

Creation Date 01-May-2012 **Revision Date** 11-Aug-2014 **Revision Number** 1

1. Identification

Product Name **Phenanthrene**

Cat No. : **AC130090000; AC130090050; AC130090500; AC130095000**

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4

Label Elements

Signal Word
Warning

Hazard Statements
Harmful if swallowed

Precautionary Statements
Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Phenanthrene	85-01-8	>95

4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Obtain medical attention. Wash off immediately with plenty of water for at least 15 minutes.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

Most important symptoms/effects None reasonably foreseeable.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature Not applicable
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO_2)
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
1	1	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

Environmental Precautions Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

- **Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- **Skin and body protection** Long sleeved clothing.
- **Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
- **Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Beige
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	95 - 101 °C / 203 - 213.8 °F
Boiling Point/Range	336 °C / 636.8 °F
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1 mmHg @ 116 °C
Vapor Density	Not applicable
Relative Density	1.063
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition temperature	No information available
Viscosity	Not applicable
Molecular Formula	C14 H10
Molecular Weight	178.23

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information
Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phenanthrene	1.8 g/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Phenanthrene	85-01-8	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea

Phenanthrene	Not listed	LC50 = 3.2 mg/L 96h	Not listed	LC50 = 0.35 mg/L 48h

Persistence and Degradability Insoluble in water May persist

Bioaccumulation/ Accumulation No information available.

Mobility . Is not likely mobile in the environment due its low water solubility.

Component	log Pow
Phenanthrene	4.46

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID, N.O.S.
Hazard Class 9
Packing Group III

TDG

UN-No UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID, N.O.S.
Hazard Class 9
Packing Group III

IATA

UN-No UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.*
Hazard Class 9
Packing Group III

IMDG/IMO

UN-No UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class 9
Packing Group III

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Phenanthrene	X	X	-	201-581-5	-		X	X	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Phenanthrene	85-01-8	>95	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Phenanthrene	-	-	X	X

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Phenanthrene	5000 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Phenanthrene	X	X	X	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class Non-controlled

16. Other information

Prepared By Regulatory Affairs

Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date	01-May-2012
Revision Date	11-Aug-2014
Print Date	11-Aug-2014
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Version 6.10
Revision Date 09/06/2024
Print Date 09/06/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Phenol

Product Number : P5566
Brand : Sigma-Aldrich
Index-No. : 604-001-00-2
CAS-No. : 108-95-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 3), H331
Acute toxicity, Dermal (Category 3), H311

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Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Germ cell mutagenicity (Category 2), H341
Specific target organ toxicity - repeated exposure (Category 2), Nervous system, Kidney, Liver, Skin, H373
Short-term (acute) aquatic hazard (Category 2), H401
Long-term (chronic) aquatic hazard (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word	Danger
Hazard Statements	
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled.
H314	Causes severe skin burns and eye damage.
H341	Suspected of causing genetic defects.
H373	May cause damage to organs (Nervous system, Kidney, Liver, Skin) through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
Precautionary Statements	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

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2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Vesicant., Rapidly absorbed through skin.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	:	Hydroxybenzene
Formula	:	C_6H_6O
Molecular weight	:	94.11 g/mol
CAS-No.	:	108-95-2
EC-No.	:	203-632-7
Index-No.	:	604-001-00-2

Component	Classification	Concentration
Phenol		
	Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Muta. 2; STOT RE 2; Aquatic Acute 2; Aquatic Chronic 2; H301, H331, H311, H314, H318, H341, H373, H401, H411 Concentration limits: >= 3 %: Skin Corr. 1B, H314; 1 - < 3 %: Skin Irrit. 2, H315; 1 - < 3 %: Eye Irrit. 2, H319;	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact

After contact with skin: rinse out with polyethylene glycol 400 or a mixture of polyethylene glycol 300/ethanol 2:1 and wash with plenty of water. If neither is available wash with plenty of water. Immediately take off contaminated clothing. Call a physician immediately.

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In case of eye contact
After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed
If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Combustible.
Vapors are heavier than air and may spread along floors.
Forms explosive mixtures with air on intense heating.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

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6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture.

Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.
Storage stability Recommended storage temperature
2 - 8 °C
Handle and store under inert gas. Light sensitive.

Storage class
Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Phenol	108-95-2	TWA	5 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Not classifiable as a human carcinogen		

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		Danger of cutaneous absorption		
		TWA	5 ppm 19 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		
		C	15.6 ppm 60 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		
		TWA	5 ppm 19 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		
		PEL	5 ppm 19 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Phenol	108-95-2	Phenol	250mg/g creatinine	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: Viton®
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please

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contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: Viton®
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Body Protection
Flame retardant antistatic protective clothing.

Respiratory protection
Recommended Filter type: Filter A-(P3)
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when dusts/vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odor	stinging
c)	Odor Threshold	0.005 ppm
d)	pH	6.0
e)	Melting point/freezing point	Melting point/ range: 38 - 43 °C (100 - 109 °F)
f)	Initial boiling point and boiling range	181.8 °C 359.2 °F at 1,013 hPa
g)	Flash point	79.0 °C (174.2 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 9.5 %(V) Lower explosion limit: 1.3 %(V)
k)	Vapor pressure	0.53 hPa at 20.0 °C (68.0 °F)
l)	Vapor density	3.2 at 20 °C(68 °F) - (Air = 1.0)
m)	Density	1.13 g/cm3 at 25 °C (77 °F) - DIN 51757
	Relative density	No data available

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n)	Water solubility	87 g/l at 25 °C (77 °F)
o)	Partition coefficient: n-octanol/water	log Pow: 1.47 at 30 °C (86 °F) - (ECHA), Bioaccumulation is not expected.
p)	Autoignition temperature	715 °C (1319 °F) at 1,013 hPa
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Surface tension	38.2 mN/m at 50.0 °C (122.0 °F)
Relative vapor density	3.2 at 20 °C (68 °F) - (Air = 1.0)

SECTION 10: Stability and reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating.
A range from approx. 15 Kelvin below the flash point is to be rated as critical.
The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .
Contains the following stabilizer(s):
Hypophosphorous acid (0.15 %)

10.3 Possibility of hazardous reactions

Exothermic reaction with:
Aluminum
Aldehydes
halogens
hydrogen peroxide
iron(III) compounds
Oxidizing agents
Strong acids
Strong bases
formaldehyde
Risk of explosion with:
nitrites
nitrates
salts of oxyhalogenic acids
peroxi compounds

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10.4 Conditions to avoid
Strong heating.

10.5 Incompatible materials
rubber, various plastics, various alloys, various metals

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Acute toxicity estimate Oral - 100.1 mg/kg
(Calculation method)
Acute toxicity estimate Oral - 100.1 mg/kg
(Expert judgment)
Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
Acute toxicity estimate Inhalation - 4 h - 0.51 mg/l - dust/mist(Calculation method)

Acute toxicity estimate Inhalation - 4 h - 0.51 mg/l - dust/mist

(Expert judgment)
Symptoms: Irritation, Lung edema
Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
Acute toxicity estimate Dermal - 660 mg/kg
(Calculation method)
LD50 Dermal - Rat - female - 660 mg/kg
(OECD Test Guideline 402)
No data available

Skin corrosion/irritation
Skin - In vitro study
Result: Causes burns.
(OECD Test Guideline 431)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Corrosive
(OECD Test Guideline 405)
Remarks: Causes serious eye damage.
Risk of blindness!

Respiratory or skin sensitization
Sensitisation test: - Guinea pig
Result: negative
Remarks: (IUCLID)

Germ cell mutagenicity
Suspected of causing genetic defects.
Test Type: Mutagenicity (mammal cell test): chromosome aberration.
Test system: Chinese hamster ovary cells
Metabolic activation: Metabolic activation

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Method: OECD Test Guideline 473
Result: positive
Test Type: Mutagenicity (mammal cell test): micronucleus.
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 487
Result: positive

Carcinogenicity
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
May cause damage to organs through prolonged or repeated exposure.
- Nervous system, Kidney, Liver, Skin
Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Aspiration hazard
No data available

11.2 Additional Information

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Circulatory collapse, tachypnea, paralysis, Convulsions, Coma., necrosis of mouth and G.I. Tract, Jaundice, respiratory failure, cardiac arrest
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish flow-through test LC50 - Onchorhynchus clarki - 8.9 mg/l - 96 h

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	(US-EPA)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Ceriodaphnia dubia (water flea) - 3.1 mg/l - 48 h (US-EPA)
Toxicity to algae	static test EC50 - Pseudokirchneriella subcapitata (algae) - 61.1 mg/l - 96 h (US-EPA)
Toxicity to bacteria	static test IC50 - microorganisms - 21 mg/l - 24 h Remarks: (ECHA)
Toxicity to fish(Chronic toxicity)	semi-static test NOEC - Fish - 0.077 mg/l - 60 d Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	semi-static test NOEC - Daphnia magna (Water flea) - 0.16 mg/l - 16 d Remarks: (ECHA)

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 100 h Result: 62 % - Readily biodegradable. (OECD Test Guideline 301C)

12.3 Bioaccumulative potential

Bioaccumulation	Danio rerio (zebra fish) - 5 h at 25 °C - 2 mg/l(Phenol) Bioconcentration factor (BCF): 17.5 (OECD Test Guideline 305) Remarks: Does not bioaccumulate.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)
UN number: 1671 Class: 6.1 Packing group: II
Proper shipping name: Phenol, solid
Reportable Quantity (RQ): 1000 lbs
Poison Inhalation Hazard: No

IMDG
UN number: 1671 Class: 6.1 Packing group: II EMS-No: F-A, S-A
Proper shipping name: PHENOL, SOLID
Marine pollutant : yes

IATA
UN number: 1671 Class: 6.1 Packing group: II
Proper shipping name: Phenol, solid

SECTION 15: Regulatory information

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Phenol	108-95-2	1000	1000

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Phenol	108-95-2	1000	1000

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
Phenol	108-95-2	10000
Phenol	108-95-2	500*

*: Solid in the molten or powdered form (particles < 100 microns), in solution, or meeting the NFPA reactivity criteria

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

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SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Phenol	108-95-2	>= 90 - <= 100 %

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.10 Revision Date: 09/06/2024 Print Date: 09/06/2024

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SAFETY DATA SHEET

Version 3.10
Revision Date 03/03/2015
Print Date 02/07/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Potassium
Product Number	:	244864
Brand	:	Aldrich
CAS-No.	:	7440-09-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Substances and mixtures, which in contact with water, emit flammable gases (Category 1), H260
Skin corrosion (Category 1A), H314
Serious eye damage (Category 1), H318
Carcinogenicity (Category 1A), H350

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H260	In contact with water releases flammable gases which may ignite spontaneously.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H350	May cause cancer.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P223	Keep away from any possible contact with water, because of violent reaction and possible flash fire.

P231 + P232	Handle under inert gas. Protect from moisture.
P260	Do not breathe dust or mist.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P281	Use personal protective equipment as required.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P402 + P404	Store in a dry place. Store in a closed container.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Reacts violently with water.
May form explosive peroxides.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Formula : K
Molecular weight : 39.10 g/mol

Hazardous components

Component		Classification	Concentration
Potassium			
CAS-No. EC-No. Index-No.	7440-09-7 231-119-8 019-001-00-2	Water-react. 1; Skin Corr. 1A; Eye Dam. 1; H260, H314	>= 90 - <= 100 %
Paraffin oils			
CAS-No. EC-No.	8012-95-1 232-384-2	Carc. 1A; H350	>= 1 - < 5 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.Continue rinsing eyes during transport to hospital.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Dry powder

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Potassium oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Never allow product to get in contact with water during storage.

Handle and store under inert gas.
Storage class (TRGS 510): Hazardous materials, which set free flammable gases upon contact with water

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Paraffin oils	8012-95-1	STEL	10.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation 2014 Adoption Not classifiable as a human carcinogen		
		Upper Respiratory Tract irritation 2014 Adoption Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Upper Respiratory Tract irritation Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		
		TWA	5.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen		
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Upper Respiratory Tract irritation Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Fragments Colour: grey
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 64 °C (147 °F)
f)	Initial boiling point and boiling range	774 °C (1,425 °F) at 1,013 hPa (760 mmHg)
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower	No data available

	flammability or explosive limits	
k)	Vapour pressure	0.12 hPa (0.09 mmHg) at 260 °C (500 °F)
l)	Vapour density	No data available
m)	Relative density	0.860 g/cm3
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts violently with water.

10.4 Conditions to avoid
Exposure to moisture

10.5 Incompatible materials
Oxidizing agents, Strong oxidizing agents, Carbon oxides, Reacts violently with water., Reacts with water to generate Hydrogen gas.

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	1 - Group 1: Carcinogenic to humans (Paraffin oils)
NTP:	Known to be human carcinogenThe reference note has been added by TD based on the background information of the NTP. (Paraffin oils)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 2257 Class: 4.3 Packing group: I
Proper shipping name: Potassium
Reportable Quantity (RQ):

Poison Inhalation Hazard: No

IMDG
UN number: 2257 Class: 4.3 Packing group: I EMS-No: F-G, S-N
Proper shipping name: POTASSIUM

IATA
UN number: 2257 Class: 4.3 Packing group: I
Proper shipping name: Potassium
IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Potassium	7440-09-7	1993-04-24
Paraffin oils	8012-95-1	2007-03-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Potassium	7440-09-7	1993-04-24
Paraffin oils	8012-95-1	2007-03-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Potassium	7440-09-7	1993-04-24
Paraffin oils	8012-95-1	2007-03-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
Paraffin oils	8012-95-1	1987-02-27

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Carc.	Carcinogenicity
Eye Dam.	Serious eye damage
H260	In contact with water releases flammable gases which may ignite spontaneously.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H350	May cause cancer.
Skin Corr.	Skin corrosion
Water-react.	Substances and mixtures, which in contact with water, emit flammable gases

HMIS Rating
Health hazard: 3

Chronic Health Hazard:	*
Flammability:	4
Physical Hazard	2

NFPA Rating

Health hazard:	3
Fire Hazard:	4
Reactivity Hazard:	2
Special hazard.I:	W

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.10 Revision Date: 03/03/2015 Print Date: 02/07/2016

SAFETY DATA SHEET

Creation Date 01-Jul-2010 **Revision Date** 10-Feb-2015 **Revision Number** 1

1. Identification

Product Name **Pyrene**

Cat No. : **AC180830000; AC180830250; AC180831000; AC180835000**

Synonyms Benzo[def]phenanthrene

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Central nervous system (CNS).	
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Liver.	

Label Elements

Signal Word
Warning

Hazard Statements
Causes skin irritation
Causes serious eye irritation
May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure

Precautionary Statements
Prevention
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Do not get in eyes, on skin, or on clothing
Response
Get medical attention/advice if you feel unwell
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Skin
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation occurs: Get medical advice/attention
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Pyrene	129-00-0	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion Do not induce vomiting. Obtain medical attention.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available

Flash Point	210 °C / 410 °F
Method -	No information available
Autoignition Temperature	No information available
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical
Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO_2)
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

6. Accidental release measures

Personal Precautions	Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.
Environmental Precautions	Should not be released into the environment. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.
Methods for Containment and Clean Up	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

7. Handling and storage

Handling	Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid ingestion and inhalation.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Yellow
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	148 - 152 °C / 298 - 306 °F
Boiling Point/Range	393 °C / 739.4 °F @ 760 mmHg
Flash Point	210 °C / 410 °F
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C16 H10
Molecular Weight	202.25

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Pyrene	2700 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes and skin

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Pyrene	129-00-0	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Central nervous system (CNS)
STOT - repeated exposure Liver

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available
Endocrine Disruptor Information No information available

Other Adverse Effects Tumorigenic effects have been reported in experimental animals. The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not empty into drains. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Pyrene	Not listed	Oncorhynchus mykiss: LC50 > 2mg/L 96h	Not listed	EC50 48h 1.8 mg/L EC50 48h 0.002-0.003 mg/L

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility .

Component	log Pow
Pyrene	4.88

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT
- **UN-No** UN3077
- **Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s
- **Proper technical name** Pyrene
- **Hazard Class** 9
- **Packing Group** III

TDG
- **UN-No** UN3077
- **Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s.
- **Hazard Class** 9
- **Packing Group** III

IATA

UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s
Hazard Class	9
Packing Group	III

IMDG/IMO

UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s
Hazard Class	9
Packing Group	III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Pyrene	X	X	-	204-927-3	-		X	X	X	X	-

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Pyrene	-	-	X	X

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Pyrene	5000 lb	5000 lb

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Pyrene	X	X	X	X	-

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D2B Toxic materials

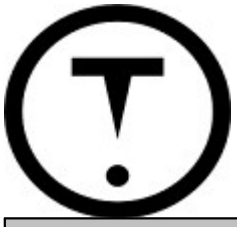

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 01-Jul-2010
Revision Date 10-Feb-2015
Print Date 10-Feb-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Version 6.7
Revision Date 10/27/2023
Print Date 07/13/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : *sec*-Butylbenzene

Product Number : B90408
Brand : Aldrich
CAS-No. : 135-98-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3), H226
Acute toxicity, Oral (Category 4), H302
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Signal Word	Warning
Hazard statement(s)	
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	:	2-Phenylbutane
Formula	:	$C_{10}H_{14}$
Molecular weight	:	134.22 g/mol
CAS-No.	:	135-98-8
EC-No.	:	205-227-0

Component	Classification	Concentration
sec-Butylbenzene		
	Flam. Liq. 3; Acute Tox. 4; Aquatic Acute 1; Aquatic Chronic 1; H226, H302, H400, H410 M-Factor - Aquatic Acute: 1	<= 100 %

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For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact
After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Carbon dioxide (CO2) Foam Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides
Combustible.
Vapors are heavier than air and may spread along floors.
Forms explosive mixtures with air at elevated temperatures.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on protection against fire and explosion
Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.

Hygiene measures
Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Storage class
Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

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8.2 Exposure controls

Appropriate engineering controls
Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Flame retardant antistatic protective clothing.

Respiratory protection
Recommended Filter type: Filter type ABEK
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when vapours/aerosols are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains. Risk of explosion.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Color: colorless
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 75.5 °C (167.9 °F) - lit.
f)	Initial boiling point and boiling range	173 - 174 °C 343 - 345 °F - lit.
g)	Flash point	52.0 °C (125.6 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Lower explosion limit: 0.8 %(V)
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	0.863 g/mL at 25 °C (77 °F) - lit.
	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	418.0 °C (784.4 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity
Vapor/air-mixtures are explosive at intense warming.

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
Violent reactions possible with:
Strong oxidizing agents

10.4 Conditions to avoid
Heating.

10.5 Incompatible materials
various plastics

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 1,926 mg/kg
Remarks: (RTECS)
Inhalation: No data available
LD50 Dermal - Rabbit - > 13,760 mg/kg
Remarks: (RTECS)
No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Mild eye irritant - 24 h
Remarks: (RTECS)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Mild eye irritation - 24 h
Remarks: (RTECS)

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is

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identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

RTECS: CY9100000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After absorption:

Headache
Nausea
narcosis

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates	semi-static test EC50 - Daphnia magna (Water flea) - 0.6 mg/l - 48 h (OECD Test Guideline 202) Remarks: (in analogy to similar products)
Toxicity to algae	static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 0.42 mg/l - 72 h (OECD Test Guideline 201) Remarks: (in analogy to similar products)
	static test NOEC - Pseudokirchneriella subcapitata (green algae) - 0.26 mg/l - 72 h (OECD Test Guideline 201) Remarks: (in analogy to similar products)

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12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)
UN number: 2709 Class: 3 Packing group: III
Proper shipping name: Butyl benzenes
Reportable Quantity (RQ):
Marine pollutant: yes Poison Inhalation Hazard: No

IMDG
UN number: 2709 Class: 3 Packing group: III EMS-No: F-E, S-D
Proper shipping name: BUTYLBENZENES
Marine pollutant : yes
Marine pollutant : yes

IATA
UN number: 2709 Class: 3 Packing group: III
Proper shipping name: Butylbenzenes

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SECTION 15: Regulatory information

SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
sec-Butylbenzene	135-98-8	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
sec-Butylbenzene	135-98-8	1993-04-24

SECTION 16: Other information

Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.7 Revision Date: 10/27/2023 Print Date: 07/13/2024

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SAFETY DATA SHEET

Revision Date 10-Feb-2015 **Revision Number** 1

1. Identification

Product Name **Selenium**

Cat No. : **AC419270000; AC419271000; AC419275000**

Synonyms None

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 3
Specific target organ toxicity - (repeated exposure)	Category 2

Label Elements

Signal Word
Danger

Hazard Statements
Toxic if swallowed
Toxic if inhaled
May cause damage to organs through prolonged or repeated exposure

Precautionary Statements
Prevention

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Response
Get medical attention/advice if you feel unwell
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician
Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
May cause long lasting harmful effects to aquatic life

3. Composition / information on ingredients

Component	CAS-No	Weight %
Selenium	7782-49-2	> 99.5

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required.

Ingestion Do not induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Call a physician immediately. If possible drink milk afterwards.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO_2). Dry chemical. chemical foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Vapors may form explosive mixtures with air.

Hazardous Combustion Products
None known
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
3	0	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. Handling and storage

Handling Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep under nitrogen.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Selenium	TWA: 0.2 mg/m³	(Vacated) TWA: 0.2 mg/m³	IDLH: 1 mg/m³ TWA: 0.2 mg/m³

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Selenium	TWA: 0.2 mg/m³	TWA: 0.2 mg/m³	TWA: 0.2 mg/m³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Grey
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point/Range	217 - 222 °C / 422.6 - 431.6 °F
Boiling Point/Range	685 °C / 1265 °F
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1 mmHg @ 345 °C
Vapor Density	No information available
Relative Density	4.810
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	Se
Molecular Weight	78.96

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Acids, Strong oxidizing agents, Fluorine, oxygen, Metals

Hazardous Decomposition Products None under normal use conditions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Selenium	6700 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Selenium	7782-49-2	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available
Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity
Do not empty into drains.

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility No information available.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT
- **UN-No** UN3283
- **Hazard Class** 6.1
- **Packing Group** III

TDG
- **UN-No** UN3283
- **Hazard Class** 6.1
- **Packing Group** III

IATA
- **UN-No** 3283
- **Proper Shipping Name** SELENIUM COMPOUND, SOLID, N.O.S.
- **Hazard Class** 6.1
- **Packing Group** III

IMDG/IMO
- **UN-No** 3283
- **Proper Shipping Name** SELENIUM COMPOUND, SOLID, N.O.S.
- **Hazard Class** 6.1
- **Packing Group** III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Selenium	X	X	-	231-957-4	-		X	-	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Selenium	7782-49-2	> 99.5	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Selenium	-	-	X	X

Clean Air Act Not applicable

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Selenium	X		-

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Selenium	100 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Selenium	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D1A Very toxic materials
D2B Toxic materials

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Revision Date 10-Feb-2015
Print Date 10-Feb-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Version 4.6
Revision Date 12/02/2015
Print Date 02/09/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Silver

Product Number : 327093
Brand : Aldrich

CAS-No. : 7440-22-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula : Ag
Molecular weight : 107.87 g/mol
CAS-No. : 7440-22-4
EC-No. : 231-131-3

Hazardous components

Component	Classification	Concentration
Silver		
		<= 100 %

4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Wash off with soap and plenty of water.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Silver/silver oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapours, mist or gas.
For personal protection see section 8.

6.2 Environmental precautions
No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Air sensitive. Store under inert gas. Keep in a dry place.
Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Silver	7440-22-4	TWA	0.010000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.010000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.100000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Argyria		
		TWA	0.010000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.010000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.010000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.100000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Argyria		
		TWA	0.010000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Argyria		
		TWA	0.01 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

8.2 Exposure controls

Appropriate engineering controls
General industrial hygiene practice.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 960 °C (1,760 °F) - lit.
f)	Initial boiling point and boiling range	2,212 °C (4,014 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	10.49 g/cm3
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Oxygen, Strong acids and strong bases

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - male - > 5,000 mg/kg

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

Carcinogenicity - Rat - Unreported
Tumorigenic:Tumors at site or application.

Carcinogenicity classification not possible from current data.

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

May cause argyria (a slate-gray or bluish discoloration of the skin and deep tissues due to the deposit of insoluble albuminate of silver).

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Silver)
Reportable Quantity (RQ): 1 lbs

Poison Inhalation Hazard: No

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Silver	7440-22-4	1993-04-24

SARA 311/312 Hazards
No SARA Hazards

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Silver	7440-22-4	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date

Silver	7440-22-4	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Silver	7440-22-4	1993-04-24

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.6 Revision Date: 12/02/2015 Print Date: 02/09/2016

Fisher Scientific

Part of Thermo Fisher Scientific

SAFETY DATA SHEET

Revision Date 10-Feb-2015 **Revision Number** 1

1. Identification

Product Name **2-(2,4,5-Trichlorophenoxy)propionic acid**

Cat No. : **AC171700000; AC171700050**

Synonyms Silvex

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Carcinogenicity	Category 2

Label Elements

Signal Word
Warning

Hazard Statements
Harmful if swallowed
Causes skin irritation
Causes serious eye irritation
Suspected of causing cancer

Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear eye/face protection
Response
IF exposed or concerned: Get medical attention/advice
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
Storage
Store locked up
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Silvex (2,4,5-TP)	93-72-1	97

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

Inhalation Remove from exposure, lie down. Move to fresh air. Obtain medical attention.

Ingestion Clean mouth with water. Get medical attention.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO_2). Dry chemical. chemical foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Hydrogen chloride gas Carbon monoxide (CO) Carbon dioxide (CO_2)
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	0	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let this chemical enter the environment.

7. Handling and storage

Handling Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist. Do not ingest.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Beige
Odor	Slight
Odor Threshold	No information available
pH	No information available
Melting Point/Range	177 - 181 °C / 350.6 - 357.8 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	1.209
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C9 H7 Cl3 O3
Molecular Weight	269.51

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Hydrogen chloride gas, Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization No information available.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Silvex (2,4,5-TP)	650 mg/kg (Rat)	3200 mg/kg (Rabbit)	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Silvex (2,4,5-TP)	93-72-1	Group 2B	Not listed	Not listed	X	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available
Endocrine Disruptor Information No information available

Other Adverse Effects See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity
Do not empty into drains.

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility No information available.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT Not regulated
TDG Not regulated
IATA
- **UN-No** 3077
- **Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.*
- **Hazard Class** 9
- **Packing Group** III

IMDG/IMO
- **UN-No** 3077
- **Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
- **Hazard Class** 9
- **Packing Group** III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Silvex (2,4,5-TP)	-	-	-	202-271-2	-		X	X	-	-	-

Legend:
X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Silvex (2,4,5-TP)	X	100 lb	-	-

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Silvex (2,4,5-TP)	100 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Silvex (2,4,5-TP)	X	X	X	X	-

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class	D1B Toxic materials D2B Toxic materials

16. Other information

Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date	10-Feb-2015
Print Date	10-Feb-2015
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Version 4.11
Revision Date 03/05/2015
Print Date 02/07/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Sodium
Product Number	:	483745
Brand	:	Aldrich
CAS-No.	:	7440-23-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Substances and mixtures, which in contact with water, emit flammable gases (Category 1), H260
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Carcinogenicity (Category 1A), H350

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H260	In contact with water releases flammable gases which may ignite spontaneously.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H350	May cause cancer.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P223	Keep away from any possible contact with water, because of violent reaction and possible flash fire.

P231 + P232	Handle under inert gas. Protect from moisture.
P260	Do not breathe dust or mist.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P281	Use personal protective equipment as required.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P402 + P404	Store in a dry place. Store in a closed container.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Reacts violently with water.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Formula : Na
Molecular weight : 22.99 g/mol

Hazardous components

Component		Classification	Concentration
Sodium			
CAS-No. EC-No. Index-No.	7440-23-5 231-132-9 011-001-00-0	Water-react. 1; Skin Corr. 1B; Eye Dam. 1; H260, H314	>= 90 - <= 100 %
Paraffin oils			
CAS-No. EC-No.	8012-95-1 232-384-2	Carc. 1A; H350	>= 90 - <= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.Continue rinsing eyes during transport to hospital.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Dry powder

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Never allow product to get in contact with water during storage.

Handle and store under inert gas. Air sensitive.
Storage class (TRGS 510): Hazardous materials, which set free flammable gases upon contact with water

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Paraffin oils	8012-95-1	STEL	10.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation 2014 Adoption Not classifiable as a human carcinogen		
		Upper Respiratory Tract irritation 2014 Adoption Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Upper Respiratory Tract irritation Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		
		TWA	5.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen		
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Upper Respiratory Tract irritation Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Pieces
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 97.8 °C (208.0 °F) - lit.
f)	Initial boiling point and boiling range	883 °C (1,621 °F) - lit.
g)	Flash point	82 °C (180 °F)
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	0.97 g/cm3

n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts violently with water.

10.4 Conditions to avoid
Air Do not allow water to enter container.
Exposure to moisture

10.5 Incompatible materials
Oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: 1 - Group 1: Carcinogenic to humans (Paraffin oils)

NTP: Known to be human carcinogenThe reference note has been added by TD based on the background information of the NTP. (Paraffin oils)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Aspiration may lead to:, lipid pneumonia, Effects due to ingestion may include:, laxative effect, Gastrointestinal disturbance, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1428 Class: 4.3 Packing group: I
Proper shipping name: Sodium
Reportable Quantity (RQ): 10 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1428 Class: 4.3 Packing group: I EMS-No: F-G, S-N
Proper shipping name: SODIUM

IATA
UN number: 1428 Class: 4.3 Packing group: I
Proper shipping name: Sodium
IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Sodium	7440-23-5	1993-04-24
Paraffin oils	8012-95-1	2007-03-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Sodium	7440-23-5	1993-04-24
Paraffin oils	8012-95-1	2007-03-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Sodium	7440-23-5	1993-04-24
Paraffin oils	8012-95-1	2007-03-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
Paraffin oils	8012-95-1	1987-02-27

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Carc.	Carcinogenicity
Eye Dam.	Serious eye damage
H260	In contact with water releases flammable gases which may ignite spontaneously.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H350	May cause cancer.
Skin Corr.	Skin corrosion
Water-react.	Substances and mixtures, which in contact with water, emit flammable gases

HMIS Rating

Health hazard:	3
Chronic Health Hazard:	*
Flammability:	4
Physical Hazard	2

NFPA Rating

Health hazard:	3
Fire Hazard:	4
Reactivity Hazard:	2
Special hazard.I:	W

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.11 Revision Date: 03/05/2015 Print Date: 02/07/2016

Sulfate Standard, 100 ppm

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/18/2013 Revision date: 05/03/2018 Supersedes: 05/03/2018 Version: 1.1

SECTION 1: Identification

1.1. Identification

Product form : Mixtures

Product name : Sulfate Standard, 100 ppm

Product code : LC25500

1.2. Recommended use and restrictions on use

Use of the substance/mixture : For laboratory and manufacturing use only.

Recommended use : Laboratory chemicals

Restrictions on use : Not for food, drug or household use

1.3. Supplier

LabChem Inc
Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court
Zelienople, PA 16063 - USA
T 412-826-5230 - F 724-473-0647
info@labchem.com - www.labchem.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or +1-703-741-5970

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. GHS Label elements, including precautionary statements

Not classified as a hazardous chemical.

Other hazards not contributing to the classification : None.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Water	(CAS-No.) 7732-18-5	99.985	Not classified
Sodium Sulfate, Anhydrous	(CAS-No.) 7757-82-6	0.015	Not classified

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Immediate medical attention and special treatment, if necessary

None. Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	:	Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	:	Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard	:	Not flammable.
Explosion hazard	:	Not available.
Reactivity	:	None.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	:	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	:	Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	:	None.

6.1.1. For non-emergency personnel

Emergency procedures	:	Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	:	Equip cleanup crew with proper protection.
Emergency procedures	:	Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment	:	Dam up the liquid spill.
Methods for cleaning up	:	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	:	Keep only in the original container in a cool, well ventilated place away from : incompatible materials. Keep container closed when not in use.
Incompatible products	:	Strong bases. Strong acids.
Incompatible materials	:	Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sodium Sulfate, Anhydrous (7757-82-6)
Not applicable

Water (7732-18-5)
Not applicable

8.2. Appropriate engineering controls

Appropriate engineering controls : Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Safety glasses.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Respiratory protection not required in normal conditions

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Clear, colorless liquid.
Color	:	Colorless
Odor	:	None.
Odor threshold	:	No data available
pH	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	Non flammable.
Vapor pressure	:	No data available
Relative vapor density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	No data available
Log Pow	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosion limits	:	No data available
Explosive properties	:	Not applicable.
Oxidizing properties	:	None.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Skin and eye contact

Acute toxicity : Not classified

Sodium Sulfate, Anhydrous (7757-82-6)	
LD50 oral rat	10000 mg/kg
ATE US (oral)	10000 mg/kg

Water (7732-18-5)	
LD50 oral rat	≥ 90000 mg/kg
ATE US (oral)	90000 mg/kg body weight

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified
Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Reproductive toxicity : Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Sodium Sulfate, Anhydrous (7757-82-6)	
LC50 fish 1	13500 - 14500 ml/l
EC50 Daphnia 1	2564 mg/l

12.2. Persistence and degradability

Sulfate Standard, 100 ppm	
Persistence and degradability	Not established.

Sodium Sulfate, Anhydrous (7757-82-6)	
Persistence and degradability	Not established.

Water (7732-18-5)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Sulfate Standard, 100 ppm	
Bioaccumulative potential	Not established.

Sodium Sulfate, Anhydrous (7757-82-6)	
Bioaccumulative potential	Not established.

Water (7732-18-5)	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

Sulfate Standard, 100 ppm
Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

CANADA

Sodium Sulfate, Anhydrous (7757-82-6)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Sodium Sulfate, Anhydrous (7757-82-6)
Not listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Revision date	:	05/03/2018
Other information	:	None.
NFPA health hazard	:	0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	:	0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	:	0 - Material that in themselves are normally stable, even under fire conditions.

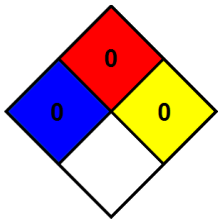

Hazard Rating		
Health	:	1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	:	0 Minimal Hazard - Materials that will not burn
Physical	:	0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	:	A A - Safety glasses

SDS US LabChem

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.

SAFETY DATA SHEET

Version 3.5
Revision Date 11/04/2015
Print Date 02/22/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	*tert*-Butylbenzene
Product Number	:	B90602
Brand	:	Aldrich
CAS-No.	:	98-06-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 3), H226
Eye irritation (Category 2A), H319
Acute aquatic toxicity (Category 2), H401
Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Warning

Hazard statement(s)

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.

P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P391	Collect spillage.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	2-Methyl-2-phenylpropane
Formula	:	$C_{10}H_{14}$
Molecular weight	:	134.22 g/mol
CAS-No.	:	98-06-6
EC-No.	:	202-632-4

Hazardous components

Component	Classification	Concentration
tert-Butylbenzene		
	Flam. Liq. 3; Eye Irrit. 2A; Aquatic Acute 2; Aquatic Chronic 2; H226, H319, H411	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -58 °C (-72 °F) - lit.
f)	Initial boiling point and boiling range	169 °C (336 °F) - lit.
g)	Flash point	34.0 °C (93.2 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower	Lower explosion limit: 0.8 %(V)

	flammability or explosive limits	
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	0.867 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 3.80
p)	Auto-ignition temperature	450.0 °C (842.0 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 3,045 mg/kg
Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Tremor. Gastrointestinal:Changes in structure or function of salivary glands.

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: CY9120000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC0 - Leuciscus idus (Golden orfe) - 44 mg/l - 48.0 h
	LC50 - Leuciscus idus (Golden orfe) - 65 mg/l - 48.0 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - 41 mg/l - 24 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2709 Class: 3 Packing group: III
Proper shipping name: Butyl benzenes
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 2709 Class: 3 Packing group: III EMS-No: F-E, S-D
Proper shipping name: BUTYLBENZENES
Marine pollutant:yes

IATA
UN number: 2709 Class: 3 Packing group: III
Proper shipping name: Butylbenzenes

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
tert-Butylbenzene	98-06-6	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
tert-Butylbenzene	98-06-6	1993-04-24

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.5 Revision Date: 11/04/2015 Print Date: 02/22/2016

SAFETY DATA SHEET

Version 8.10
Revision Date 09/06/2024
Print Date 09/07/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Tetrachloroethylene

Product Number : 371696
Brand : Sigma-Aldrich
Index-No. : 602-028-00-4
CAS-No. : 127-18-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Skin sensitization (Category 1), H317

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Carcinogenicity (Category 2), H351
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
Short-term (acute) aquatic hazard (Category 2), H401
Long-term (chronic) aquatic hazard (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word	Warning
Hazard Statements	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H411	Toxic to aquatic life with long lasting effects.
Precautionary Statements	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing mist or vapors.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

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SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	:	Perchloroethylene PCE
Formula	:	C_2Cl_4
Molecular weight	:	165.83 g/mol
CAS-No.	:	127-18-4
EC-No.	:	204-825-9
Index-No.	:	602-028-00-4

Component	Classification	Concentration
Tetrachlorethylene		
	Skin Irrit. 2; Eye Irrit. 2A; Skin Sens. 1; Carc. 2; STOT SE 3; Aquatic Acute 2; Aquatic Chronic 2; H315, H319, H317, H351, H336, H401, H411 Concentration limits: >= 20 %: STOT SE 3, H336;	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Hydrogen chloride gas
Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

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Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class
Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Tetrachlorethylene	127-18-4	TWA	25 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Confirmed animal carcinogen with unknown relevance to humans		
		STEL	100 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Confirmed animal carcinogen with unknown relevance to humans		
		Potential Occupational Carcinogen		

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		TWA	100 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		CEIL	200 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Peak	300 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		PEL	25 ppm 170 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		STEL	100 ppm 685 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		C	300 ppm	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Tetrachlorethylene	127-18-4	Tetrachloro ethylene	3parts per million	In end-exhaled air	ACGIH - Biological Exposure Indices (BEI)
	Remarks	Prior to shift (16 hours after exposure ceases)			
		Tetrachloro ethylene	0.5 mg/l	In blood	ACGIH - Biological Exposure Indices (BEI)
		Prior to shift (16 hours after exposure ceases)			

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: Viton®
Minimum layer thickness: 0.7 mm

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Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 240 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Body Protection
protective clothing

Respiratory protection
Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Color: colorless
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/ range: -22 °C (-8 °F) - lit.
f)	Initial boiling point and boiling range	121 °C 250 °F - lit.
g)	Flash point	()No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower	No data available

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	flammability or explosive limits	
k)	Vapor pressure	25.3 hPa at 25.0 °C (77.0 °F) 17.3 hPa at 20.0 °C(68.0 °F)
l)	Vapor density	No data available
m)	Density	1.623 g/cm3 at 25 °C (77 °F) - lit.
	Relative density	No data available
n)	Water solubility	0.15 g/l at 25 °C (77 °F)
o)	Partition coefficient: n-octanol/water	log Pow: 2.53 at 23 °C (73 °F) - Bioaccumulation is not expected.
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Surface tension 32.1 mN/m at 20 °C (68 °F)

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Risk of explosion with:
Alkali metals
Aluminum
sodium amide
Barium
nitrogen dioxide
Oxygen
with
alkali hydroxides
Exothermic reaction with:
strong alkalis
Alkaline earth metals
strong alkalis
Light metals
Powdered metals

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Oxidizing agents
Strong acids
Strong bases
nitrous gases
Risk of ignition or formation of inflammable gases or vapours with:
zinc oxide
with
Aluminum

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
various plastics

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - male and female - 3,420 mg/kg
(OECD Test Guideline 401)
Remarks: (ECHA)
Inhalation: No data available
Dermal: No data available
No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Skin irritation - 4 h
(OECD Test Guideline 404)
Remarks: (ECHA)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Mild eye irritation - 24 h
(Draize Test)
Remarks: (RTECS)

Respiratory or skin sensitization
Local lymph node assay (LLNA) - Mouse
Result: May cause sensitization by skin contact.
(OECD Test Guideline 429)
Remarks: (ECHA)

Germ cell mutagenicity
Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473

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Result: negative
Remarks: (ECHA)
Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: without metabolic activation
Method: OECD Test Guideline 471
Result: negative
Remarks: (ECHA)

Test Type: Micronucleus test
Species: Mouse

Application Route: Intraperitoneal
Method: OECD Test Guideline 474
Result: negative
Remarks: (ECHA)

Carcinogenicity
Suspected of causing cancer.

IARC:	2A - Group 2A: Probably carcinogenic to humans (Tetrachlorethylene)
NTP:	RAHC - Reasonably anticipated to be a human carcinogen (Tetrachlorethylene)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

Repeated dose toxicity - Mouse - female - Oral - LOAEL (Lowest observed adverse effect level) - 390 mg/kg

RTECS: KX3850000
narcosis, Liver injury may occur., Kidney injury may occur.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 5 mg/l - 96 h Remarks: (ECHA)

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Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 7.50 mg/l - 48 h
Toxicity to algae	ErC50 - Chlamydomonas reinhardtii (green algae) - 3.64 mg/l - 72 h Remarks: (ECHA)
Toxicity to fish(Chronic toxicity)	flow-through test NOEC - Jordanella floridae - 1.99 mg/l - 10 d Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	semi-static test NOEC - Daphnia magna (Water flea) - 0.51 mg/l - 28 d Remarks: (ECHA)

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 28 d Result: 11 % - Not readily biodegradable. (OECD Test Guideline 301C)

12.3 Bioaccumulative potential

Bioaccumulation	Lepomis macrochirus (Bluegill) - 21 d - 0.00343 mg/l(Tetrachlorethylene) Bioconcentration factor (BCF): 49

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

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SECTION 14: Transport information

DOT (US)
UN number: 1897 Class: 6.1 Packing group: III
Proper shipping name: Tetrachloroethylene
Reportable Quantity (RQ): 100 lbs
Reportable Quantity (RQ): 100 lbs
Reportable Quantity (RQ): 10 lbs
Reportable Quantity (RQ): 10 lbs
Marine pollutant: yes Poison Inhalation Hazard: No

IMDG
UN number: 1897 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TETRACHLOROETHYLENE
Marine pollutant : yes
Marine pollutant : yes

IATA
UN number: 1897 Class: 6.1 Packing group: III
Proper shipping name: Tetrachloroethylene

SECTION 15: Regulatory information

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Tetrachlorethylene	127-18-4	100	100
Tetrachlorethylene	127-18-4	100	100 (D039)
Tetrachlorethylene	127-18-4	10	10 (F001)
Tetrachlorethylene	127-18-4	10	10 (F002)

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Tetrachlorethylene 127-18-4 >= 90 - <= 100 %

US State Regulations

Massachusetts Right To Know
Tetrachlorethylene 127-18-4

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Pennsylvania Right To Know

Tetrachlorethylene	127-18-4

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Tetrachlorethylene	127-18-4

Washington Chemicals of High Concern

Tetrachlorethylene	127-18-4

California Prop. 65

WARNING: This product can expose you to chemicals including Tetrachlorethylene, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 8.10 Revision Date: 09/06/2024 Print Date: 09/07/2024

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Safety Data Sheets (SDS)

SECTION 1-IDENTIFICATION

Product name: Toluene

Other names:-

Proper shipping name: Toluene

Recommended use of the chemical and restrictions on use:
The major use of toluene is as a mixture added to gasoline to improve octane ratings. Used as a solvent for paint, resins, lacquers inks & adhesives. Component of solvent blends and thinners. Used in the manufacture of chemicals, dyes, explosives, benzoic acid. Some grades of toluene may contain traces of xylene and benzene.
The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting consider control of exposure by mechanical ventilation.
WARNING: Intentional misuse by concentrating/inhaling contents may be lethal.

Manufacturer/Supplier Name: Taiwan SM Corp., Kaohsiung plant
Address: NO.7, Industrial 1st Rd, Lin-Yuan Kaohsiung County 83203, Taiwan, R.O.C.
Phone No.: 886-7-6414511

Emergency phone No./Fax No.: 886-7-6414511 Ext. 221 (on duty), 886-7-6414517 (off duty)/886-7-6423828

SECTION 2-HAZARDS IDENTIFICATION

GHS Classification:

Flammable Liquid Category 2
Acute Toxicity (Oral) Category 4
Skin Corrosion/ Irritation Category 2
Serious Eye Damage/ Eye Irritation Category 2
Specific Target Organ Toxicity Repeated Exposure Category 2
Hazardous To The Aquatic Environment (Acute) Category 3
Aspiration Hazard Category 1

GHS Label elements:

Hazard symbols

Signal word

Danger

Hazard statements

Highly flammable liquid and vapor
Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May cause damage to organs through prolonged or repeated exposure.
May cause long lasting harmful effects to aquatic life.
May be fatal if swallowed and enters airways.

Precautionary statements

Use only in well ventilated area.
Control of exposure by mechanical ventilation in an unventilated or confined space.
Avoid breathing vapors and contact with skin and eyes.
Wear breathing apparatus/protective gloves/face protection.
Store in well-ventilated place.
Disposal must be in accordance with applicable federal, state, or local regulations.

Other hazards: —

SECTION 3-COMPOSITION/INFORMATION ON INGREDIENTS

CAS No.	Chemical Name	wt% by weight	EINECS No.
00108-88-3	Toluene	97.0 min.	203-625-9
Synonyms	**Methylbenzol; Methylbenzene; Toluol; Phenylmethane**		

SECTION 4-FIRST AID MEASURES

Description of necessary first aid measures

Eye:

1. Flush immediately with warm water for at least 20 minutes.
2. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
3. If pain persists or recurs seek medical attention.
4. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin:

1. Removing contaminated clothing, shoes, and leathery wearings, cleaning procedure is available before reused or waste treatment.
2. Washing affected area thoroughly with soap and water for at least 20 minutes.
3. Call a Physician if irritation develops or persists.

Ingestion:

1. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomits.
2. If victim is conscious and alert, give 2～4 cupfuls of milk/water to dilute the substance in stomach.
3. Never give anything by mouth to an unconscious person.
4. Don’t induce vomiting unless directed to do so by medical person.
5. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
6. Then seek for medical attention.

Inhalation:

1. Remove from further exposure and flush thoroughly with air.
2. Lay patient down. Keep warm and rested.
3. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
4. If respiratory irritation, seek immediate medical assistance and call a physician.

Most important symptoms/effects, acute and delayed

Headache, fatigue, drowsiness, insomnia, anorexia and pain in limbs, nervousness, impairment of memory.

Indication of immediate medical attention and special treatment needed, if necessary

For acute or short term repeated exposures to toluene:

Inhalation:

1. Inhalation overexposure can produce toxic effects. Monitor for respiratory distress.
2. If cough or difficulty in breathing develops, evaluate for upper respiratory tract inflammation, bronchitis, and pneumonitis. Administer supplemental oxygen with assisted ventilation, as required.
3. This material (or a component) sensitizes the heart to the effects of sympathomimetic amines. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in individuals exposed to this material.
4. Administration of sympathomimetic drugs should be avoided.

Ingestion:

1. If ingested, this material presents a significant aspiration and chemical pneumonitis hazard.
2. Induction of emesis is not recommended.
3. Consider activated charcoal and/or gastric lavage.
4. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position.

SECTION 5-FIRE FIGHTING MEASURES

Extinguishing media

Foam、CO_2、Dry chemical、Water fog.

Specific hazards arising from the chemical

1. Liquid and vapor are highly flammable.
2. Severe fire hazard when exposed to heat, flame and/or oxidizers.
3. Vapor may travel a considerable distance to source of ignition.
4. Heating may cause expansion or decomposition leading to violent rupture of containers.
5. On combustion, may emit toxic fumes of carbon monoxide (CO).

Special protective equipment and precautions for fire-fighters

1. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies.
2. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles.
3. Cover pooling liquid with foam.
4. Containers can build pressure if exposed to radiant heat; cool adjacent containers with flooding quantities of water until well after the fire is out.
5. Withdraw immediately from the area if there is a rising sound from a venting safety device or discoloration of vessels, tanks, or pipelines.
6. Be aware that burning liquid will float on water.
7. Notify appropriate authorities of potential fire and explosion hazard if liquid enter sewers or waterways

SECTION 6-ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedure

1. Personal protective equipment (specified in Section 8)
   Eyes : Chemical safety goggles are recommended, and a face shield is added when needed.
   Skin : Wear appropriate protective gloves to avoid skin contact.
   Clothing: When direct contact is likely, use rubberized clothings, apron and boots.
   Respiratory : When limits are exceeded, wear a respirator approved by NIOSH/MSHA for protection against organic dust, mists and vapors.
2. Remove all sources of ignition. No smoking, naked lights or ignition sources. Ventilate area of leak or spill.
3. Keep unnecessary and unprotected personnel from entering. Evacuate personnel from the danger area. Consult with an expert about the emergency procedures.

Environmental precautions

1. Prevent spillage from entering drains, surface, and groundwater.
2. Contain and recover liquid when possible. Use non-sparking tools and equipment.
3. Collect liquid in an appropriate container or absorb with an inert material (e.g. vermiculite, dry sand, earth), and place in a chemical waste container.
4. Report the accidental spill/release to Local/State government.

Methods and materials for containment and cleaning up

Minor spill:

1. Remove all ignition sources.
2. Clean up all spills immediately.
3. Avoid breathing vapors and contact with skin and eyes.
4. Control personal contact by using protective equipment.
5. Contain and absorb small quantities with vermiculite or other absorbent material.
6. Wipe up.
7. Collect residues in a flammable waste container.

Major spill

1. Clear area of personnel and move upwind.
2. Alert emergency responders and tell them location and nature of hazard.
3. May be violently or explosively reactive.
4. Wear breathing apparatus plus protective gloves.
5. Prevent spillage from entering drains or water course.
6. No smoking, naked lights or ignition sources. Increase ventilation.
7. Stop leak if safe to do so.
8. Water spray or fog may be used to disperse/absorb vapor.
9. Contain spill with sand, earth or vermiculite.
10. Use only spark-free shovels and explosion proof equipment.
11. Collect recoverable product into labeled containers for recycling..
12. Absorb remaining product with sand, earth or vermiculite.
13. Collect solid residues and seal in labeled drums for disposal.
14. Wash area and prevent runoff into drains.
15. If contamination of drains or waterways occurs, advise emergency services.

SECTION 7-HANDLING AND STORAGE

Precautions for safe handling

1. Wash thoroughly after handling.
2. Use only in well ventilated area.
3. Ground and bond containers when transferring.
4. Use spark-free tools and explosion proof equipment.
5. Empty containers retain product residue (liquid/vapor), and can be dangerous.
6. Do not pressurize, cut, weld, braze, solder, drill, or expose empty containers to heat, sparks or open flames.

Conditions for safe storage, including any incompatibilities

1. Store in original containers in approved flame-proof area.
2. No smoking, naked lights, heat or ignition sources.
3. DO NOT store in pits, depressions, basements or areas where vapors may be trapped.
4. Keep containers securely sealed.
5. Store away from incompatible materials in a cool, dry well ventilated area.
6. Protect containers against physical damage and check regularly for leaks.
7. Keep containers tightly closed and store in a cool, dry, well-ventilated place, plainly labeled, and out of closed vehicles.
8. Ground all equipment containing this material.
9. Observe manufacturer's storing and handling recommendations.
10. Containers should be able to withstand pressures expected from warming and cooling in storage. This flammable liquid should be stored in a separate safety cabinet or room. A refrigerated room is preferable for materials with a flash point temperature lower than 70°F (21°C).

SECTION 8-EXPOSURE CONTROLS, PERSONAL PROTECTION

OSHA - Final PELs : 200 ppm TWA.
OSHA Ceiling : 300ppm.
ACGIH : 50 ppm, skin -potential forcutaneous absorption.
NIOSH : 100 ppm TWA; 375 mg/m^3 TWA; 500 ppm IDLH.
Taiwan TWA : 100 ppm (skin).
Taiwan STEL : 125 ppm (skin).
Taiwan Ceiling : -------.
Taiwan BEI : 1 mg/l (before on duty).

Engineering control

1. Process should be located at least 17 meter (50 feet) away from open flames and all high temperature operations likely to cause ignition of the styrene monomer vapor.
2. In venting styrene monomer vapors, consideration should be given to possible halogenation of the vapors by low concentrations of free chlorine and bromine with the resultant formation of lacrimations.
3. Process should be designed so that the operator is not exposed to direct contact with Toluene or the vapor. The technical problems of designing equipment, providing adequate ventilation and operating procedures which promise maximum security and economy, can best be handled by competent engineers.
4. It is essential for safety that equipment be used and maintained as recommended by the manufacturer.
5. Tanks used to store or process Toluene should be closed vessels vented to a safe point of discharge in the outside atmosphere away from operating stations, roadways, and at least 17 meter (50 feet) from possible sources of ignitions. All sparks, flames, heated surface, or other sources of ignition should be kept away from all vents. It is advisable, to provide suction on vessels when inspection or observation openings are made, to minimize or eliminate escape of vapors.

Personal protective equipment

Eye Protection:
Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. Chemical goggles should be worn during transfer operations or when there is a likelihood of misting, splashing, or spraying of this material. A suitable emergency eye wash water and safety shower should be located near the work station.

Skin protection:
Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Clothing:
Avoid skin contact. Wear long-sleeved fire-retardant garments (e.g., Nomex®) while working with flammable and combustible liquids. Additional chemical-resistant protective gear may be required if splashing or spraying conditions exist. This may include an apron, boots and additional facial protection. If product comes in contact with clothing, immediately remove soaked clothing and shower. Promptly remove and discard contaminated leather goods.

Respirators:
For known vapor concentrations above the occupational exposure guidelines (see below), use a NIOSH-approved organic vapor respirator if adequate protection is provided. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134). For airborne vapor concentrations that exceed the recommended protection factors for organic vapor respirators, use a full-face, positive-pressure, supplied air respirator. Due to fire and explosion hazards, do not enter atmospheres containing concentrations greater than 10% of the lower flammable limit of this product.

SECTION 9-PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Transparent liquid	Upper/lower explosive limits : 1.2%～7.1%
Odour : pleasant aromatic petroleum odour	Vapor Pressure : 22 mmHg @20℃/68°F
Odour threshold : 0.16～37 ppm (detect) 1.9～69 ppm (recognition)	Vapor Density : 3.1 (air=1)
PH : Not available	Relative density : 0.86 (water=1)
Melting/Freezing Point : －95 ℃	Solubility in water : 54～58 mg/100 ml
Initial boiling point/boiling range : 110.6 ℃	Partition coefficient : 2.73 (n-octanol/water)
Flash point : 4.4 ℃ (closed cup)	Auto-ignition temperature : 480℃
Evaporation Rate : 2.24 (BuAc=1)	Decomposition temperature : Not available
Flammability (solid/gas) : Not available	Viscosity : 0.6 mPa.s max @20℃
Molecular Formula : $C_6H_5CH_3$	Molecular Weight : 92.056

SECTION 10-STABILITY AND REACTIVITY

Reactivity
Vapor is explosive when exposed to heat or flame

Chemical stability
Stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of hazardous reaction
Has not been reported.

Condition to avoid
Product is highly flammable – Keep away from sources of ignition. Avoid the higher temperatures. Keep away from open fire, heating elements and heat radiating surface and prevent from forming of the vapours mixtures with air in explosion limits.

Incompatible materials
Heat, flame, strong oxidizers, nitric and sulfuric acids, chlorine, nitrogen tetraoxide; will attack some forms of plastics, rubber, coatings.

Hazardous decomposition products
Carbon monoxide, carbon dioxide, hydrocarbons.

SECTION 11-TOXICOLOGICAL INFORMATION

Routes of exposure
Eye, Skin, inhalation, Ingestion.

Symptoms (treatments as indicated in Section 4)
Eye: The liquid produces a high level of eye discomfort and is capable of causing pain and severe conjunctivitis. Corneal injury may develop, with possible permanent impairment of vision, if not promptly and adequately treated. There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain. There may be damage to the cornea. Unless treatment is prompt and adequate there may be permanent loss of vision. Conjunctivitis can occur following repeated exposure.

Skin: Contact with the material may damage the health of the individual; systemic effects may result following absorption. The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering. Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

Ingestion: Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733). Considered an unlikely route of entry in commercial/industrial environments. The liquid may produce gastrointestinal discomfort and may be harmful if swallowed. Ingestion may result in nausea, pain and vomiting. Vomit entering the lungs by aspiration may cause potentially lethal chemical pneumonitis.

Inhalation: Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination. If exposure to highly concentrated solvent atmosphere is prolonged this may lead to narcosis, unconsciousness, even coma and possible death. The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting consider control of exposure by mechanical ventilation.

Chronic exposure: There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Toxicity
LD50: <870 mg/kg (rat, oral)
LC50: 6000 ppm/6h (rat, inhalation)

Chronic effect
Carcinogenicity:
ACGIH : A4-Not classifiable as a Human Carcinogen.
OSHA : Possible select carcinogen.
IARC : Group 3 carcinogen.

Epide miology: Not available.

Teratogenicity: Teratogenic effects have occurred in experimental animals.

Reproductive Effects: Adverse reproductive effects have occurred in experimental animals.

Neurotoxicity: Not available.

Mutagenicity: Not available.

SECTION 12-ECOLOGICAL INFORMATION

Ecotoxicity
LC_{50} (96 hr.) Fish: 7.3～22.8 mg/l
EC_{50} (48 hr.) Water flea: －
Biocencentration factor (BCF): 1.67～380

Persistence and degradability

1. The material are expected to form a slick on the surface of waters after release in calm sea conditions. This is expected to evaporate and enter the atmosphere where it will be degraded through reaction with hydroxyl radicals.
2. Some of the material will become associated with benthic sediments, and it is likely to be spread over a fairly wide area of sea floor. Marine sediments may be either aerobic or anaerobic. The material, in probability, is biodegradable, under aerobic conditions. Evidence also suggests that the hydrocarbons may be degradable under anaerobic conditions although such degradation in benthic sediments may be a relatively slow process.
3. Under aerobic conditions the material will degrade to water and carbon dioxide, while under aerobic processes it will produce water, methane, carbon dioxide and carbon dioxide.
4. Based on test results, as well as theoretical considerations, the potential for bioaccumulation may be high. Toxic effects are often observed in species such as blue mussel, daphnia, freshwater green algae, marine copepods and amphipods.

Half-life (Air): 10～104 hr
Half-life (Surface water): 96～528 hr
Half-life (Ground water): 168～672 hr
Half-life (Soil): 96～528 hr

Bioaccumulative potential
This material is not expected to significantly bioaccumulate.

Mobility in soil: －

Other adverse effects: －

SECTION 13-DISPOSAL CONSIDERATIONS

Residues and spilled material are hazardous waste due to ignitability. Disposal must be in accordance with applicable federal, state, or local regulations.
The container for this product can present explosion or fire hazards, even when emptied. To avoid risk of injury, do not cut, puncture, or weld on or near this container. Since the emptied containers retain product residue, follow label warnings even after container is emptied.

SECTION 14-TRANSPORTATION INFORMATION

US DOT	Shipping Name	Toluene	Hazard Labels	
	Hazard Class	3		
	UN Number	1294		
	Packing Group	II		
Sea(IMO/IMDG)	Shipping Name	Toluene	Hazard Labels	
	Hazard Class	3.2		
	UN Number	1294		
	Packing Group	II		
	IMDG Code Page	3285		
	MARPOL	Not a DOT "Marine Pollutant" per 49 CFR 171.8.		
Air(ICAO/IATA)	Shipping Name	Toluene	Hazard Labels	
	Hazard Class	3.2		
	Subsidiary Class	1294		
	Packing Group	II		
RID/ ADR	No information available.			
Canadian TDG	Shipping Name	Toluene	Hazard Labels	
	Hazard Class	3		
	UN Number	1294		
	Packing Group	II		
	Subsidiary Class	9.2		

SECTION 15-REGULATORY INFORMATION

US FEDERAL

TSCA

CAS# 108-88-3 is listed on the TSCA inventory.

Health & Safety Reporting List

CAS# 108-88-3: Effective Date: 10/4/82; Sunset Date: 10/4/92

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

CAS# 108-88-3 : final RQ = 1000 pounds (454 kg)

Section 302 (TPQ)

None of the chemicals in this material have a TPQ.

SARA Codes

CAS# 108-88-3 : acute, flammable.

Section 313

This material contains Toluene (CAS# 108-88-3, 99% & 100%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 372.

Clean Air Act

CAS# 108-88-3 is listed as a hazardous air pollutant (HAP).

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act

CAS# 108-88-3 is listed as a Hazardous Substance under the CWA.
CAS# 108-88-3 is listed as a Priority Pollutant under the Clean Water Act.
CAS# 108-88-3 is listed as a Toxic Pollutant under the Clean Water Act.

OSHA

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

Toluene can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.
WARNING: This product contains Toluene, a chemical known to the state of California to cause birth defects or other reproductive harm.
California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN F
Risk Phrases : R 10 Flammable.
R 20 Harmful by inhalation.
Safety Phrases : S 9 Keep container in a well-ventilated place.
S 16 Keep away from sources of ignition - No smoking.
S 25 Avoid contact with eyes.
S 29 Do not empty into drains.
S 33 Take precautionary measures against static discharges.

WGK (Water Danger/Protection)

CAS# 108-88-3: 2

United Kingdom Occupational Exposure Limits

CAS# 108-88-3: OES-United Kingdom, TWA 50 ppm TWA; 191 mg/m3 TWA.
CAS# 108-88-3: OES-United Kingdom, STEL 150 ppm STEL; 574 mg/m3 STEL.

CANADA

CAS#100-42-5 is listed on Canada's DSL/NDSL list.
This product has a WHMIS classification of B2, D2A (99%)/B3, D2A (100%).
CAS# 105-05-5 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

- CAS# 108-88-3: OEL-AUSTRALIA:TWA 100 ppm (375 mg/m3);STEL 150 ppm (560 mg/m3)
- OEL-BELGIUM:TWA 100 ppm (377 mg/m3);STEL 150 ppm (565 mg/m3)
- OEL-CZECHOSLOVAKIA:TWA 200 mg/m3;STEL 1000 mg/m3
- OEL-DENMARK:TWA 50 ppm (190 mg/m3);Skin
- OEL-FINLAND:TWA 100 ppm (375 mg/m3);STEL 150 ppm; Skin
- OEL-FRANCE:TWA 100 ppm (375 mg/m3);STEL 150 ppm (560 mg/m3)
- OEL-GERMANY:TWA 100 ppm (380 mg/m3)
- OEL-HUNGARY:TWA 100 mg/m3;STEL 300 mg/m3;Skin
- OEL-JAPAN:TWA 100 ppm (380 mg/m3)
- OEL-THE NETHERLANDS:TWA 100 ppm (375 mg/m3);Skin
- OEL-THE PHILIPPINES:TWA 100 ppm (375 mg/m3)
- OEL-POLAND:TWA 100 mg/m3
- OEL-RUSSIA:TWA 100 ppm; STEL 50 mg/m3
- OEL-SWEDEN:TWA 50 ppm (200 mg/m3);STEL 100 ppm (400 mg/m3);Skin
- OEL-SWITZERLAND:TWA 100 ppm (380 mg/m3);STEL 500 ppm
- OEL-THAILAND:TWA 200 ppm; STEL 300 ppm
- OEL-TURKEY:TWA 200 ppm (750 mg/m3)
- OEL-UNITED KINGDOM:TWA 100 ppm (375 mg/m3);STEL 150 ppm; Skin OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

SECTION 16-OTHER INFORMATION

References and sources

1. CHEMINFO Data Bank, CCINFO CD, 2005-3
2. HAZARD TEXT Data Bank, TOMES PLUS CD, Vol.65, 2005
3. RETECS Data Bank, TOMES CPS CD, Vol.65, 2005
4. HSDB Data Bank, TOMES CPS CD, Vol.65, 2005
5. Hazardous Substance Data Bank, Environment Protection, Administration, Executive Yuan, ROC (Taiwan)
6. Chemwatch Data Bank, 2005-1
7. SDS, GHS in Taiwan, Council of Labor Affairs, Executive Yuan, ROC (Taiwan)

Version	Date	Remark
Version 1	06/01/1998	Original Version.
Version 2	04/20/2001	Updated 10 sections to 16 sections.
Version 3	08/01/2003	Updated “SECTION 9-PHYSICAL AND CHEMICAL PROPERTIES”.
Version 4	01/01/2006	Updated “SECTION 14-TRANSPORTATION INFORMATION”.
Version 5	08/05/2008	Updated each section by GHS SDS.
Prepared by	Safety & Environment Protection Section, Taiwan SM Corporation Kaohsiung Plant.	

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/07/2021 Reviewed on 05/07/2021

1 Identification

· **Product identifier**

· **Trade name:** **Total Organic Carbon Std. 1000 mg/L (ppm), Certified**

· **Article number:** 9570

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Aqua Solutions, Inc.
6913 Highway 225
DEER PARK, TX 77536
USA
800-256-2586

· **Information department:**
Technical Coordinator
Sherman Nelson shermann@aquasolutions.org
· **Emergency telephone number:**
Chemtrec: 800-424-9300
Canutec: 613-996-6666

2 Hazard(s) identification

· **Classification of the substance or mixture**
The product is not classified, according to the Globally Harmonized System (GHS).

· **Label elements**
· **GHS label elements** Not Applicable
· **Hazard pictograms** Not Applicable
· **Signal word** Not Applicable
· **Hazard statements** Not Applicable
· **Precautionary statements**
If swallowed: Call a poison center/doctor if you feel unwell.
If on skin: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

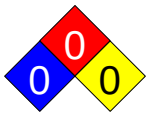

Health = 0
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 1
Fire = 0
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

(Contd. on page 2)

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/07/2021 Reviewed on 05/07/2021

Trade name: Total Organic Carbon Std.
1000 mg/L (ppm), Certified

(Contd. of page 1)

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:** Not Applicable

· **Table of Nonhazardous Ingredients**		
CAS: 7732-18-5	Water	99.558%
CAS: 7647-01-0	Hydrochloric Acid	0.23%
CAS: 877-24-7	Potassium Hydrogen Phthalate	0.212%

4 First-aid measures

· **Description of first aid measures**
· **General information:** No special measures required.
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:** Immediately rinse with water.
· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.
· **Environmental precautions:** Dilute with plenty of water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
CAS: 7647-01-0	Hydrochloric Acid	1.8 ppm
CAS: 877-24-7	Potassium Hydrogen Phthalate	9.6 mg/m³

(Contd. on page 3)

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/07/2021 Reviewed on 05/07/2021

Trade name: Total Organic Carbon Std.
1000 mg/L (ppm), Certified

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· **PAC-2:**		
CAS: 7647-01-0	Hydrochloric Acid	22 ppm
CAS: 877-24-7	Potassium Hydrogen Phthalate	110 mg/m³

· **PAC-3:**		
CAS: 7647-01-0	Hydrochloric Acid	100 ppm
CAS: 877-24-7	Potassium Hydrogen Phthalate	630 mg/m³

7 Handling and storage

· **Handling:**
· **Precautions for safe handling** No special measures required.
· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** None.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
· **Breathing equipment:** Not required.
· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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Trade name: Total Organic Carbon Std.
1000 mg/L (ppm), Certified

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· **Eye protection:** Goggles recommended during refilling.
· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Liquid
Color:	Clear
· **Odor:**	Odorless
· **Odor threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
Melting point/Melting range:	0 °C (32 °F)
Boiling point/Boiling range:	100 °C (212 °F)
· **Flash point:**	Not applicable.
· **Flammability (solid, gaseous):**	Not applicable.
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure at 20 °C (68 °F):**	23 hPa (17.3 mm Hg)
· **Density at 20 °C (68 °F):**	1.00113 g/cm³ (8.35443 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Fully miscible.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
Water:	99.6 %
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	0.2 %
· **Other information**	No further relevant information available.

US

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Safety Data Sheet
acc. to OSHA HCS

Printing date 05/07/2021 Reviewed on 05/07/2021

Trade name: Total Organic Carbon Std.
1000 mg/L (ppm), Certified

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10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:** Not hazardous for water.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

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Safety Data Sheet
acc. to OSHA HCS

Printing date 05/07/2021 Reviewed on 05/07/2021

Trade name: Total Organic Carbon Std.
1000 mg/L (ppm), Certified

(Contd. of page 5)

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:** Smaller quantities can be disposed of with household waste.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**	
· **DOT, ADN, IMDG, IATA**	Not regulated
· **UN proper shipping name**	
· **DOT, ADN, IATA**	Not regulated
· **IMDG**	Not Regulated
	Not regulated
· **Transport hazard class(es)**	
· **DOT, ADN, IMDG, IATA**	
· **Class**	Not regulated
· **Packing group**	
· **DOT, IMDG, IATA**	Not regulated
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **DOT**	
· **Remarks:**	Not regulated
· **IMDG**	
· **Remarks:**	Not regulated
· **IATA**	
· **Remarks:**	Not regulated
· **UN "Model Regulation":**	Not regulated

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredients is listed.

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Safety Data Sheet
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Trade name: Total Organic Carbon Std.
1000 mg/L (ppm), Certified

(Contd. of page 6)

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

Water	ACTIVE
Hydrochloric Acid	ACTIVE
Potassium Hydrogen Phthalate	ACTIVE

· **Hazardous Air Pollutants**

CAS: 7647-01-0	Hydrochloric Acid

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements** Not Applicable
· **Hazard pictograms** Not Applicable
· **Signal word** Not Applicable
· **Hazard statements** Not Applicable
· **Precautionary statements**
If swallowed: Call a poison center/doctor if you feel unwell.
If on skin: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Environment protection department.
· **Contact:**
· **Date of preparation / last revision**
Revision 0.1, 10-15-19: revised matrix from IPA/Meoh to Methanol STN
Revision 1.0 05-07-2021: updated hazard information. STN
05/07/2021 / -

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Safety Data Sheet
acc. to OSHA HCS

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Trade name: Total Organic Carbon Std.
1000 mg/L (ppm), Certified

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· **Abbreviations and acronyms:**
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

SAFETY DATA SHEET

Version 6.8
Revision Date 09/07/2024
Print Date 09/08/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : PCB No 28

Product Number : 35601
Brand : Sigma-Aldrich
Index-No. : 602-039-00-4
CAS-No. : 7012-37-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Specific target organ toxicity - repeated exposure (Category 2), H373
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 1), H410

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MilliporeSigma

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word: Warning

Hazard Statements

H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P260	Do not breathe dust.
P273	Avoid release to the environment.
P314	Get medical advice/ attention if you feel unwell.
P391	Collect spillage.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	:	2,4,4'-Trichlorobiphenyl 2,4,4'-PCB
Formula	:	$C_{12}H_7Cl_3$
Molecular weight	:	257.54 g/mol
CAS-No.	:	7012-37-5
EC-No.	:	230-293-2
Index-No.	:	602-039-00-4

Component	Classification	Concentration
2,4,4'-Trichlorobiphenyl		
	STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H373, H400, H410 Concentration limits: >= 0.005 %: STOT RE 2, H373; >= 0.005 %: STOT RE 2, H373; M-Factor - Aquatic Acute: 10 - Aquatic Chronic: 10	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Call in physician.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Carbon oxides
Hydrogen chloride gas
Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture.

Hygiene measures
Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Dry.

Storage class
Storage class (TRGS 510): 11: Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

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Component	CAS-No.	Value	Control parameters	Basis
2,4,4'-Trichlorobiphenyl	7012-37-5	TWA	0.001 mg/m3	USA. NIOSH Recommended Exposure Limits
	Remarks	Potential Occupational Carcinogen		

8.2 Exposure controls

Appropriate engineering controls
Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
Handle with impervious gloves.

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Body Protection
protective clothing

Respiratory protection
Recommended Filter type: Filter type P2
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
required when dusts are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/ range: 56 °C (133 °F)
f)	Initial boiling point and boiling range	No data available
g)	Flash point	> 100.00 °C (> 212.00 °F)
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	No data available
	Relative density	No data available
n)	Water solubility	insoluble
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	none

9.2 Other safety information

No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity
The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
Violent reactions possible with:
strong oxidising agents

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Oral: No data available
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: 1 - Group 1: Carcinogenic to humans (2,4,4'-Trichlorobiphenyl)

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

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Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

11.2 Additional Information

RTECS: DV8840000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - > 0.16 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - > 0.16 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

DOT (US)
UN number: 3432 Class: 9 Packing group: II
Proper shipping name: Polychlorinated biphenyls, solid
Reportable Quantity (RQ):
Marine pollutant: yes Poison Inhalation Hazard: No

IMDG
UN number: 3432 Class: 9 Packing group: II EMS-No: F-A, S-A
Proper shipping name: POLYCHLORINATED BIPHENYLS, SOLID
Marine pollutant : yes
Marine pollutant : yes

IATA
UN number: 3432 Class: 9 Packing group: II
Proper shipping name: Polychlorinated biphenyls, solid

SECTION 15: Regulatory information

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know
No components are subject to the Massachusetts Right to Know Act.

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Pennsylvania Right To Know

2,4,4'-Trichlorobiphenyl 7012-37-5

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Prop. 65

WARNING: This product can expose you to chemicals including 2,4,4'-Trichlorobiphenyl, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

TSCA : Product contains substance(s) not listed on TSCA inventory.

TSCA list

No substances are subject to a Significant New Use Rule.

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:
2,4,4'-Trichlorobiphenyl 7012-37-5

SECTION 16: Other information

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

Version: 6.8 Revision Date: 09/07/2024 Print Date: 09/08/2024

The life science business of Merck KGaA, Darmstadt, Germany
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SAFETY DATA SHEET
Xylene

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Date issued	11.11.2013

1.1. Product identifier

Product name	Xylene
Chemical name	Xylene
Synonyms	Xylol, dimethyl benzene, xylenol
REACH Reg No.	01-2119488216-32-0000
CAS no.	1330-20-7
EC no.	215-535-7
Index no.	601-022-00-9
Article no.	13000000

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation	For the preparation of paints and as a solvent. General purpose cleaner.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name	Fred Holmberg & Co AB
Office address	Geijersgatan 8
Postal address	Box 60056
Postcode	S-216 10
City	Limhamn
Country	Sweden
Tel	+46 (0)40 15 79 20
Fax	+46 (0)40 16 22 95
E-mail	info@holmberg.se
Website	http://www.holmberg.se/en/

1.4. Emergency telephone number

Emergency telephone	112 (Europe)

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to 67/548/EEC or 1999/45/EC	Xi; R38 Xn; R20/21 R10
Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Flam. Liq. 3; H226; Acute tox. 4; H312; Skin Irrit. 2; H315; Acute tox. 4; H332;

2.2. Label elements

Hazard Pictograms (CLP)

Signal word	Danger
Hazard statements	H226 Flammable liquid and vapour. H312 Harmful in contact with skin. H315 Causes skin irritation. H332 Harmful if inhaled.
Precautionary statements	P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P233 Keep container tightly closed. P243 Take precautionary measures against static discharge. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P331 Do NOT induce vomiting. P403 + P235 Store in a well-ventilated place. Keep cool.

2.3. Other hazards

Other hazards	Not known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Xylene	CAS no.: 1330-20-7 EC no.: 215-535-7 Index no.: 601-022-00-9	R10 Xn; R20/21 Xi; R38 Flam. Liq. 3; H226 Acute tox. 4; H332 Acute tox. 4; H312 Skin Irrit. 2; H315 Note : C	75 - 90 %
Ethylbenzene	CAS no.: 100-41-4 EC no.: 202-849-4 Index no.: 601-023-00-4 Synonyms: Ethylbenzene	F; R11 Xn; R20 Flam. Liq. 2; H225 Acute tox. 4; H332	10 - 25 %

Column headings	CAS no. = Chemical Abstracts Service; EU (Einecs or Elincs number) = European inventory of Existing Commercial Chemical Substances; Ingredient name = Name as specified in the substance list (substances that are not included in the substance list must be translated, if possible). Contents given in; %, %wt/wt, %vol/wt, %vol/vol, mg/m3, ppb, ppm, weight%, vol%
HH/HF/HE	T+ = Very toxic, T = Toxic, C = Corrosive, Xn = Harmful, Xi = Irritating, E = Explosive, O = Oxidizing, F+ = Extremly flammable, F = Very flammable, N = Environmental hazard

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothes and rinse skin thoroughly with water.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.
Ingestion	NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Do not induce vomiting. Rinse mouth with water. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Information for health personnel	Treat Symptomatically. Do not give victim anything to drink if he is

unconscious.

4.3. Indication of any immediate medical attention and special treatment needed

Specific details on antidotes	No recommendation given.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Solvent vapours may form explosive mixtures with air.
Hazardous combustion products	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO_2).

5.3. Advice for firefighters

Fire fighting procedures	No specific fire fighting procedure given.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Ventilate well. Stop leak if possible without risk. Avoid contact with skin and eyes. Do not breathe vapour.

6.2. Environmental precautions

Environmental precautionary measures	Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Cleaning method	Dam and absorb spillages with sand, earth or other non-combustible material.

6.4. Reference to other sections

Other instructions	No recommendation given.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Keep away from heat, sparks and open flame. Take precautionary measures against static discharges. Mechanical ventilation may be required.

Protective Safety Measures

Advice on general occupational hygiene	Provide easy access to water supply and eye wash facilities.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Keep away from heat, sparks and open flame. Ground container and transfer equipment to eliminate static electric sparks. Store in a cool and well-ventilated place.

7.3. Specific end use(s)

Specific use(s)	Not entered.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL / PNEC

Method of testing	Contents
DNEL	Group: Industrial Exposure route: Inhalation Exposure frequency: Short term (acute) Critical Component: Etylbenzen Value: 289 mg/kg/dag

DNEL	Group: Industrial Exposure route: Inhalation Exposure frequency: Long term (repeated) Critical Component: Etylbenzen Type of effect: Systemic effect Value: 77 mg/kg/dag
DNEL	Group: Industrial Exposure route: Dermal Exposure frequency: Long term (repeated) Critical Component: Etylbenzen Type of effect: Systemic effect Value: 180 mg/kg/dag
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Long term (repeated) Critical Component: Etylbenzen Type of effect: Systemic effect Value: 14,8 mg/kg/dag
DNEL	Group: Consumer Exposure route: Dermal Exposure frequency: Long term (repeated) Critical Component: Etylbenzen Type of effect: Systemic effect Value: 108 mg/kg/dag
DNEL	Group: Consumer Exposure route: Oral Exposure frequency: Long term (repeated) Critical Component: Etylbenzen Type of effect: Systemic effect Value: 1,6 mg/kg/dag
DNEL	Group: Industrial Exposure route: Inhalation Exposure frequency: Short term (acute) Critical Component: xylen Value: 442 mg/kg/dag
DNEL	Group: Industrial Exposure route: Inhalation Exposure frequency: Long term (repeated) Critical Component: xylen Type of effect: Systemic effect Value: 221 mg/kg/dag
DNEL	Group: Industrial Exposure route: Dermal Exposure frequency: Long term (repeated) Critical Component: xylen Type of effect: Systemic effect Value: 3182 mg/kg/dag
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Short term (acute) Critical Component: xylen Value: 260 mg/kg/dag
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Long term (repeated) Critical Component: xylen Type of effect: Systemic effect

	Value: 65,3 mg/kg/dag
DNEL	Group: Consumer Exposure route: Dermal Exposure frequency: Long term (repeated) Critical Component: xylen Type of effect: Systemic effect Value: 1872 mg/kg/dag
DNEL	Group: Consumer Exposure route: Oral Exposure frequency: Long term (repeated) Critical Component: xylen Type of effect: Systemic effect Value: 12,5 mg/kg/dag
Exposure guidelines	Country of origin: Sverige Limit value type: NGV 200 mg/m3 OEL Short Term Value: 450 mg/m3 Source: Nationella hygieniska gränsvärden, AFS 2005:17
Other Information	Ovanstående NGV resp. KTV gäller både xylen och etylbenzen

8.2. Exposure controls

Occupational exposure limits	Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours. Protective gloves and goggles are recommended. Provide eyewash, quick drench.

Safety signs

Respiratory protection

Respiratory protection	Respiratory protection must be used if air contamination exceeds acceptable level. Use respiratory equipment with gas filter, type A2.

Hand protection

Hand protection	Use protective gloves. Chemical resistant gloves required for prolonged or repeated contact. Gloves of nitrile rubber, PVA or Viton are recommended.

Eye / face protection

Eye protection	Use safety goggles or face shield in case of splash risk.

Skin protection

Skin protection (except hands)	Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene / Environmental

Specific hygiene measures	Wash hands after contact.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Fluid.
Colour	Colourless.
Odour	Aromatic.
Comments, pH (as supplied)	Not relevant.
Melting point/melting range	Value: < -48 °C
Boiling point / boiling range	Value: 136-145 °C
Flash point	Value: 27 °C
Evaporation rate	Value: 13,5
Explosion limit	Value: 1-7,1 %
Vapour pressure	Value: 1 kPa Test temperature: 20 °C

Vapour density	Value: 3,7
Specific gravity	Value: 0,870 kg/m3 Test temperature: 20 °C
Solubility description	Soluble in: Organic solvents. Not soluble in water.
Partition coefficient: n-octanol/water	Value: 3,15
Spontaneous combustability	Value: > 432-530 °C
Viscosity	Value: < 0,90 mPas Method of testing: Kinematisk Test temperature: 25 °C

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Heating may cause a fire.

10.2. Chemical stability

Stability	Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not known.

10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid	Avoid contact with oxidising agents (e.g. nitric acid, peroxides and chromates). Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological Information:

Other toxicological data	Acute Toxicity (Oral LD50): mg/kg (oral rat) > 2000 Acute Toxicity (Inhalation LC50): mg/l (vapours) (4h) > 20 Acute Toxicity (Dermal LD50): mg/kg Rabbit > 2000

Toxicological data for substances

Potential acute effects

Inhalation	In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea. Icke klassificerad som aspirationstoxisk (Not classified as asp. tox.)
Skin contact	Prolonged or frequent contact may cause redness, itching, eczema and skin cracking. Defats the skin.
Eye contact	May irritate and cause redness and pain.
Ingestion	Ingestion of large amounts may cause unconsciousness. However, ingestion may cause nausea, headache, dizziness and intoxication. Ingestion may cause irritation of the gastrointestinal tract, vomiting and diarrhoea. May cause irritation to the mouth and throat.

Delayed effects / repeated exposure

Sensitisation	Not known.
Chronic effects	None known.

Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity	None.
Mutagenicity	Not known.
Teratogenic properties	Suspected of damaging the unborn child

Reproductive toxicity	Not known.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic, fish	Value: 2 mg/l Method of testing: LC50 Fish, species: Roccus saxatilis Duration: 96h
Acute aquatic, algae	Value: > 3,2 mg/l Method of testing: IC50 Algae, species: Selenastrum Capricornum Duration: 72h
Acute aquatic, Daphnia	Value: 8,5 mg/l Method of testing: EC50 Daphnia, species: Daphnia magna Duration: 48h

12.2. Persistence and degradability

Persistence and degradability description	Lättnedbrytbar av biologiska organismer.
Chemical oxygen demand (COD)	Value: 5 Method of testing: COD
Biological oxygen demand (BOD)	Value: 0,55 Method of testing: BOD

12.3. Bioaccumulative potential

Bioaccumulative potential	Will not bio-accumulate.
Bioconcentration factor (BCF)	Value: 22 Method of testing: BCF

12.4. Mobility in soil

Mobility	The product is insoluble in water and will spread on the water surface.

12.5. Results of PBT and vPvB assessment

PBT assessment results	This substance is not classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects / Remarks	None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Confirm disposal procedures with environmental engineer and local regulations. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point. Liquid components can be disposed of by incineration.
Product classified as hazardous waste	Yes
Packaging classified as hazardous waste	Yes

SECTION 14: Transport information

14.1. UN number

ADR	1307
RID	1307
IMDG	1307
ICAO/IATA	1307

14.2. UN proper shipping name

ADR	XYLENES

RID	XYLENES
IMDG	XYLENES
ICAO/IATA	XYLENES

14.3. Transport hazard class(es)

ADR	3
Hazard no.	30
RID	3
ADN	33
IMDG	3
ICAO/IATA	3

14.4. Packing group

ADR	III
RID	III
IMDG	III
ICAO/IATA	III

14.5. Environmental hazards

Comment	Not relevant.

14.6. Special precautions for user

EmS	F-E, S-D

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

EC no.	215-535-7

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Other Label Information	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.
Legislation and regulations	Dangerous Substance Directive 67/548/EEC. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895). Avfallsförordningen (2011:927).

15.2. Chemical safety assessment

SECTION 16: Other information

Hazard symbol

R-phrases	R10 Flammable. R38 Irritating to skin. R20/22 Harmful by inhalation and if swallowed. R38 Irritating to skin.
S-phrases	S7 Keep container tightly closed. S16 Keep away from sources of ignition - No smoking.
Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Flam. Liq. 3; H226; Acute tox. 4; H312; Skin Irrit. 2; H315;

	Acute tox. 4; H332;
List of relevant R-phrases (under headings 2 and 3).	R38 Irritating to skin. R11 Highly flammable. R10 Flammable. R20/21 Harmful by inhalation and in contact with skin. R20 Harmful by inhalation.
List of relevant H-phrases (Section 2 and 3).	H332 Harmful if inhaled. H312 Harmful in contact with skin. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H315 Causes skin irritation.
Responsible for safety data sheet	Fred Holmberg & Co AB

SAFETY DATA SHEET

Version 4.10
Revision Date 05/27/2016
Print Date 01/23/2017

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	*trans*-1,2-Dichloroethene
Product Number	:	48527
Brand	:	Supelco
Index-No.	:	602-026-00-3
CAS-No.	:	156-60-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	+1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Acute toxicity, Inhalation (Category 4), H332
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.

P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : *trans*-1,2-Dichloroethene
trans-1,2-Dichloroethylene
trans-Acetylene dichloride

Formula : $C_2H_2Cl_2$
Molecular weight : 96.94 g/mol
CAS-No. : 156-60-5
EC-No. : 205-860-2
Index-No. : 602-026-00-3

Hazardous components

Component	Classification	Concentration
trans-Dichloroethylene		
	Flam. Liq. 2; Acute Tox. 4; Aquatic Acute 3; Aquatic Chronic 3; H225, H332, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature 2 - 8 °C

Light sensitive. Air and moisture sensitive. Refrigerate before opening.
Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
trans-Dichloroethylene	156-60-5	TWA	200.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Eye irritation		

		TWA	200.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Eye irritation		
		TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Eye irritation		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: light yellow
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -50 °C (-58 °F) - lit.
f)	Initial boiling point and boiling range	48 °C (118 °F) - lit.
g)	Flash point	6.0 °C (42.8 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or	Upper explosion limit: 12.8 %(V) Lower explosion limit: 9.7 %(V)

	explosive limits	
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	1.257 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Oxidizing agents, Bases

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 1,235 mg/kg

LD50 Oral - Mouse - 2,122 mg/kg
Remarks: Behavioral:Altered sleep time (including change in righting reflex). Behavioral:Somnolence (general depressed activity). Behavioral:Ataxia.

LC50 Inhalation - Rat - 24100 ppm
Remarks: Behavioral:Somnolence (general depressed activity).

LD50 Dermal - Rabbit - > 5,000 mg/kg
Remarks: Prolonged skin contact may cause skin irritation and/or dermatitis. Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Eye irritation

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

prolonged or repeated exposure can cause:, narcosis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Kidney -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 220.00 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1150 Class: 3 Packing group: II
Proper shipping name: 1,2-Dichloroethylene
Reportable Quantity (RQ): 1000 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1150 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: 1,2-DICHLOROETHYLENE

IATA
UN number: 1150 Class: 3 Packing group: II
Proper shipping name: 1,2-Dichloroethylene

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
trans-Dichloroethylene	156-60-5	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
trans-Dichloroethylene	156-60-5	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
trans-Dichloroethylene	156-60-5	1993-04-24

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H332	Harmful if inhaled.
H402	Harmful to aquatic life.

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.10 Revision Date: 05/27/2016 Print Date: 01/23/2017

SAFETY DATA SHEET

Version 4.6
Revision Date 03/02/2015
Print Date 02/18/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Trichloroethylene
Product Number	:	251402
Brand	:	Sigma-Aldrich
Index-No.	:	602-027-00-9
CAS-No.	:	79-01-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Germ cell mutagenicity (Category 2), H341
Carcinogenicity (Category 1B), H350
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear eye protection/ face protection.
P280	Wear protective gloves.
P281	Use personal protective equipment as required.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	TCE Trichloroethene
Formula	:	C_2HCl_3
Molecular weight	:	131.39 g/mol
CAS-No.	:	79-01-6
EC-No.	:	201-167-4
Index-No.	:	602-027-00-9

Hazardous components

Component	Classification	Concentration
Trichloroethylene Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)		
	Skin Irrit. 2; Eye Irrit. 2A; Muta. 2; Carc. 1B; STOT SE 3; Aquatic Acute 3; Aquatic Chronic 3; H315, H319, H336, H341, H350, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Light sensitive. Handle and store under inert gas.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Trichloroethylene	79-01-6	TWA	10.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment cognitive decrement Renal toxicity Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Suspected human carcinogen		
		STEL	25.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment cognitive decrement Renal toxicity Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Suspected human carcinogen		
		Potential Occupational Carcinogen See Appendix C See Appendix A		
		See Table Z-2		
		TWA	100.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.19-1967		
		CEIL	200.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.19-1967		
		Peak	300.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.19-1967		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Trichloroethylene	79-01-6	Trichloroacetic acid	15.0000 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			
		Trichloroethanol	0.5000 mg/l	In blood	ACGIH - Biological Exposure Indices (BEI)
		End of shift at end of workweek			
		Trichloroethylene		In blood	ACGIH - Biological Exposure Indices (BEI)
		End of shift at end of workweek			
		Trichloroethylene		In end-exhaled air	ACGIH - Biological Exposure Indices (BEI)
		End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -84.8 °C (-120.6 °F) - lit.
f)	Initial boiling point and boiling range	86.7 °C (188.1 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower	Upper explosion limit: 10.5 %(V)

	flammability or explosive limits	Lower explosion limit: 8 %(V)
k)	Vapour pressure	81.3 hPa (61.0 mmHg) at 20.0 °C (68.0 °F)
l)	Vapour density	No data available
m)	Relative density	1.463 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 2.29log Pow: 5
p)	Auto-ignition temperature	410.0 °C (770.0 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Oxidizing agents, Strong bases, Magnesium

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 4,920 mg/kg

LC50 Inhalation - Mouse - 4 h - 8450 ppm

LD50 Dermal - Rabbit - > 20,000 mg/kg

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Severe skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Eye irritation - 24 h

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
Laboratory experiments have shown mutagenic effects.
In vitro tests showed mutagenic effects

Carcinogenicity

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen

IARC:	1 - Group 1: Carcinogenic to humans (Trichloroethylene)
NTP:	Reasonably anticipated to be a human carcinogen (Trichloroethylene)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: KX4550000

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Exposure to and/or consumption of alcohol may increase toxic effects., Gastrointestinal disturbance, Kidney injury may occur., narcosis
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 41 mg/l - 96.0 h
	LOEC - other fish - 11 mg/l - 10.0 d
	NOEC - Oryzias latipes - 40 mg/l - 10.0 d
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 18.00 mg/l - 48 h
Toxicity to algae	IC50 - Pseudokirchneriella subcapitata (green algae) - 175.00 mg/l - 96 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
Does not bioaccumulate.

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1710 Class: 6.1 Packing group: III
Proper shipping name: Trichloroethylene
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1710 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TRICHLOROETHYLENE

IATA
UN number: 1710 Class: 6.1 Packing group: III
Proper shipping name: Trichloroethylene

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Trichloroethylene	79-01-6	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Trichloroethylene	79-01-6	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Trichloroethylene	79-01-6	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Trichloroethylene	79-01-6	2007-07-01

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Trichloroethylene	79-01-6	2011-09-01
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.	79-01-6	2011-09-01

Trichloroethylene

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H402	Harmful to aquatic life.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.6 Revision Date: 03/02/2015 Print Date: 02/18/2016

SAFETY DATA SHEET
CHROMIUM HARD,TRIVALENT

1. Identification

Product identifier

Product name CHROMIUM HARD,TRIVALENT

Product number 2403

Recommended use of the chemical and restrictions on use

Application Industrial Use

Details of the supplier of the safety data sheet

Supplier

SIFCO Applied Surface Concepts
5708 E. Schaaf Road
Independence, Ohio 44131
U.S.A.
Tel.: +1 216-524-0099
Fax: +1 216-524-6331
E-Mail: info@sifcoasc.com

Emergency telephone number

Emergency telephone CHEMTREC (United States) (800) 424-9300; CHEMTREC (International) +1 703-527-3887

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335

Environmental hazards Aquatic Acute 3 - H402

Label elements

Pictogram

Signal word Danger

Hazard statements

H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H402 Harmful to aquatic life.

CHROMIUM HARD,TRIVALENT

Precautionary statements

P260 Do not breathe vapor/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P363 Wash contaminated clothing before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/ container in accordance with national regulations.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P284 [In case of inadequate ventilation] wear respiratory protection.
P301+P310 If swallowed: Immediately call a poison center/ doctor.
P302+P352 If on skin: Wash with plenty of water.

Contains AMMONIUM FORMATE, CHROMIUM (III) SULPHATE, AMMONIA ...%

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

AMMONIUM FORMATE **25-30%**

CAS number: 540-69-2

Classification
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
STOT SE 3 - H335

AMMONIUM CHLORIDE **5-10%**

CAS number: 12125-02-9

Classification
Acute Tox. 4 - H302
Eye Irrit. 2 - H319

CHROMIUM (III) SULPHATE **5-10%**

CAS number: 10101-53-8

Classification
Acute Tox. 4 - H302
Acute Tox. 4 - H312
Acute Tox. 4 - H332
Skin Corr. 1B - H314
Eye Dam. 1 - H318
STOT SE 3 - H335

CHROMIUM HARD,TRIVALENT

Potassium Sulfate CAS number: 7778-80-5	**1-5%**
Classification Not Classified	

AMMONIA ...% CAS number: 1336-21-6 M factor (Acute) = 1	**1-5%**
Classification Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 Aquatic Acute 1 - H400	

SODIUM BROMIDE CAS number: 7647-15-6	**<1%**
Classification Acute Tox. 4 - H312	

The full text for all hazard statements is displayed in Section 16.

4. First-aid measures

Description of first aid measures

Inhalation Move affected person to fresh air at once. Get medical attention.

Ingestion Get medical attention immediately. Do not induce vomiting.

Skin Contact Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes and get medical attention.

Eye contact Remove affected person from source of contamination. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention.

Most important symptoms and effects, both acute and delayed

Inhalation Coughing, chest tightness, feeling of chest pressure.

Ingestion May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.

Skin contact May cause serious chemical burns to the skin.

Eye contact Causes severe burns. May cause serious eye damage.

Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Special hazards arising from the substance or mixture

CHROMIUM HARD,TRIVALENT

Specific hazards Corrosive gases or vapors.

Advice for firefighters

Protective actions during firefighting Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

Special protective equipment for firefighters Use protective equipment appropriate for surrounding materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapors. Provide adequate general and local exhaust ventilation.

Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. Collect and dispose of spillage as indicated in Section 13. Wash thoroughly after dealing with a spillage.

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Avoid inhalation of vapors and spray/mists. Provide adequate general and local exhaust ventilation.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from freezing and direct sunlight.

Storage class Corrosive storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

8. Exposure controls/Personal protection

Exposure controls

Protective equipment

Appropriate engineering controls As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapor or mist.

Eye/face protection Tight-fitting safety glasses.

CHROMIUM HARD,TRIVALENT

Hand protection	It is recommended that chemical-resistant, impervious gloves are worn. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. It is recommended that gloves are made of the following material: Nitrile rubber.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
Hygiene measures	Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Liquid.
Color	Dark. Blue.
Odor	Acidic.
pH	pH (concentrated solution): 6.0-7.0
Initial boiling point and range	100°C/212°F @
Relative density	1.150-1.180
Other information	Not available.

10. Stability and reactivity

Reactivity	There are no known reactivity hazards associated with this product.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
Conditions to avoid	Avoid excessive heat for prolonged periods of time.
Materials to avoid	None known.
Hazardous decomposition products	None at ambient temperatures.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg)	4,284.49

Acute toxicity - dermal

ATE dermal (mg/kg)	19,400.35

Acute toxicity - inhalation

ATE inhalation (vapours mg/l)	194.0

CHROMIUM HARD,TRIVALENT

Inhalation	Vapors irritate the respiratory system.
Ingestion	Causes severe burns. May cause chemical burns in mouth, esophagus and stomach.
Skin Contact	May cause serious chemical burns to the skin.
Eye contact	Causes serious eye damage. Immediate first aid is imperative.
Acute and chronic health hazards	May cause burns in mucous membranes, throat, esophagus and stomach.
Route of exposure	Ingestion Inhalation Skin and/or eye contact

Toxicological information on ingredients.

AMMONIUM FORMATE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	2,250.0
Species	Mouse
ATE oral (mg/kg)	2,250.0

CHROMIUM (III) SULPHATE

Acute toxicity - oral

ATE oral (mg/kg)	500.0

Acute toxicity - dermal

ATE dermal (mg/kg)	1,100.0

Acute toxicity - inhalation

ATE inhalation (vapours mg/l)	11.0

Potassium Sulfate

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	6,600.0
Species	Rat
ATE oral (mg/kg)	6,600.0

AMMONIA ...%

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	350.0
Species	Rat

SODIUM BROMIDE

Acute toxicity - oral

CHROMIUM HARD,TRIVALENT

Acute toxicity oral (LD_{50} mg/kg)	3,500.0
Species	Rat
ATE oral (mg/kg)	3,500.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	2,000.0
Species	Rabbit
ATE dermal (mg/kg)	2,000.0

12. Ecological information

Ecotoxicity The product contains a substance which may have hazardous effects on the environment.

Toxicity No data available.

Ecological information on ingredients.

Potassium Sulfate

Acute aquatic toxicity

Acute toxicity - fish LC_{50}, 96 hour: 680 mg/l, Pimephales promelas (Fat-head Minnow)

AMMONIA ...%

Acute aquatic toxicity

$LE(C)_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC_{50}, 96 hours: 0.53 mg/l, Freshwater fish LC_{50}, 96 hours: 0.75 -3.4 mg/l, Freshwater fish LC_{50}, 96 hours: 8.2 mg/l, Freshwater fish
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 0.66 mg/l, Daphnia magna

SODIUM BROMIDE

Acute aquatic toxicity

Acute toxicity - fish	NOEC, 96 hour: 7800 mg/l, Oryzias latipes (Red killifish) LC_{50}, 96 hour: 160,000 mg/l, Poecilia reticulata (Guppy)
Acute toxicity - aquatic invertebrates	NOEC, 48 hour: 7800 mg/l, Daphnia magna EC_{50}, 48 hours: 5800 mg/l, Daphnia magna

Persistence and degradability

Persistence and degradability No data available.

Bioaccumulative potential

Bio-Accumulative Potential The product does not contain any substances expected to be bioaccumulating.

Mobility in soil

Mobility The product is soluble in water.

CHROMIUM HARD,TRIVALENT

Other adverse effects

Other adverse effects Not determined.

13. Disposal considerations

Waste treatment methods

General information Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

UN Number

UN No. (International) Not applicable.

UN proper shipping name

Proper shipping name (International) Not applicable.

Proper shipping name (DOT) NOT RESTRICTED LIQUID

Transport hazard class(es)

Transport Labels (International) No transport warning sign required.

Packing group

Packing group (International) Not applicable.

Environmental hazards

Environmentally Hazardous Substance
No.

Special precautions for user

Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

National regulations The customer is advised to check if there are specific local or national regulations specifically applicable to the chemicals contained in the product. The hazards statement for this product is in accordance with international regulations, always observing the most stringent requirements.

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
Exempt.

CHROMIUM HARD,TRIVALENT

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

Ammonium Chloride
Final CERCLA RQ: 5,000 lbs
Chromium Sulphate
Final CERCLA RQ: 1,000 lbs

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Exempt.

SARA 313 Emission Reporting

Chromium Sulphate

CAA Accidental Release Prevention

HAP
Chromium Sulphate

SARA (311/312) Hazard Categories

Acute
Chronic

OSHA Highly Hazardous Chemicals

Exempt.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

Chromium Sulphate

California Directors List of Hazardous Substances

Ammonium Chloride
Chromium Sulphate

Inventories

US - TSCA

All ingredients are present.

16. Other information

Classification abbreviations and acronyms	Acute Tox. = Acute toxicity Carc. = Carcinogenicity Eye Dam. = Serious eye damage Eye Irrit. = Eye irritation Flam. Liq. = Flammable liquid Muta. = Germ cell mutagenicity Resp. Sens. = Respiratory sensitisation Skin Corr. = Skin corrosion Skin Irrit. = Skin irritation Skin Sens. = Skin sensitisation STOT RE = Specific target organ toxicity-repeated exposure STOT SE = Specific target organ toxicity-single exposure
Revision date	8/10/2018
Revision	3

CHROMIUM HARD,TRIVALENT

Hazard statements in full	H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H402 Harmful to aquatic life.
NFPA - health hazard	Extremely hazardous, serious injury. (3)
NFPA - flammability hazard	Will not burn. (0)
NFPA - instability hazard	Normally stable. (0)

The Information in this data sheet is believed to be correct but neither we nor our employees or agents give any warranty or make any representation to the accuracy thereof and accept no liability for any loss, injury or damage which may result in it's use. The sole purpose of this data sheet is to provide guidance on the safe handling and use of the products to which it relates. It does not form part of any product specification nor part of any contract. It is not practical for the guidance and information in this data sheet to cover every conceivable application of a product and as we may not be aware of the use to which the products covered by this data sheet are to be put it remains the responsibility of the user to conduct it's own tests and to satisy itself as to the suitability of the product.

SAFETY DATA SHEET

Version 5.8
Revision Date 03/13/2015
Print Date 01/29/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Vanadium(V) oxide
Product Number	:	204854
Brand	:	Aldrich
Index-No.	:	023-001-00-8
CAS-No.	:	1314-62-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 4), H332
Serious eye damage (Category 1), H318
Germ cell mutagenicity (Category 2), H341
Reproductive toxicity (Category 2), H361
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Specific target organ toxicity - repeated exposure (Category 1), H372
Acute aquatic toxicity (Category 2), H401
Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H302 + H332	Harmful if swallowed or if inhaled
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.

H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	O_5V_2
Molecular weight	:	181.88 g/mol
CAS-No.	:	1314-62-1
EC-No.	:	215-239-8
Index-No.	:	023-001-00-8

Hazardous components

Component	Classification	Concentration
Vanadium pentoxide		
	Acute Tox. 4; Eye Dam. 1; Muta. 2; Repr. 2; STOT SE 3; STOT RE 1; Aquatic Acute 2; Aquatic Chronic 2; H302 + H332, H318, H335, H341, H361, H372, H411	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Vanadium/vanadium oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Vanadium pentoxide	1314-62-1	C	0.100000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		C	0.500000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	Remarks	Ceiling limit is to be determined from breathing-zone air samples.		
		TWA	0.050000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Lower Respiratory Tract irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans		
		TWA	0.05 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Lower Respiratory Tract irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans		
		C	0.050000 mg/m3	USA. NIOSH Recommended Exposure Limits
		15 minute ceiling value		
		C	0.050000 mg/m3	USA. NIOSH Recommended Exposure Limits
		15 minute ceiling value		
		C	0.100000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		
		C	0.500000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		
		C	0.050000 mg/m3	USA. NIOSH Recommended Exposure Limits
		15 minute ceiling value		
		C	0.050000 mg/m3	USA. NIOSH Recommended Exposure Limits
		15 minute ceiling value		
		C	0.050000 mg/m3	USA. NIOSH Recommended Exposure Limits
		15 minute ceiling value		
		C	0.050000 mg/m3	USA. NIOSH Recommended Exposure Limits
		15 minute ceiling value		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Vanadium pentoxide	1314-62-1	Vanadium	0.0500 mg/g	In urine	
	Remarks	End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 690 °C (1,274 °F) - lit.
f)	Initial boiling point and boiling range	No data available
g)	Flash point	Not applicable

h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	3.35 g/mL at 25 °C (77 °F)
n)	Water solubility	904 g/l at 20 °C (68 °F) - OECD Test Guideline 105
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	The substance or mixture is not classified as oxidizing.

9.2 Other safety information

Solubility in other solvents	Ethanol - insoluble

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong acids

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
Harmful if swallowed. Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

LC50 Inhalation - Rat - female - 4 h - 2.21 mg/l
(OECD Test Guideline 403)

LC50 Dermal - Rat - > 2,500 mg/kg
(OECD Test Guideline 402)

No data available

Skin corrosion/irritation
Skin - in vitro assay
Result: No skin irritation

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Risk of serious damage to eyes.
(OECD Test Guideline 405)

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
Laboratory experiments have shown mutagenic effects.
In vitro tests showed mutagenic effects

Carcinogenicity

No data available

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Vanadium pentoxide)
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
Possible risk of congenital malformation in the fetus.
Suspected human reproductive toxicant

No data available

Specific target organ toxicity - single exposure
May cause respiratory irritation.
Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Specific target organ toxicity - repeated exposure
Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 5.2 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - 1.52 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
Toxic to aquatic life with long lasting effects.
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2862 Class: 6.1 Packing group: III
Proper shipping name: Vanadium pentoxide
Reportable Quantity (RQ): 1000 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 2862 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: VANADIUM PENTOXIDE
Marine pollutant:yes
IATA
UN number: 2862 Class: 6.1 Packing group: III
Proper shipping name: Vanadium pentoxide

15. REGULATORY INFORMATION

SARA 302 Components
The following components are subject to reporting levels established by SARA Title III, Section 302:

	CAS-No.	Revision Date
Vanadium pentoxide	1314-62-1	2007-07-01

SARA 313 Components

	CAS-No.	Revision Date
Vanadium pentoxide	1314-62-1	2007-07-01

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Vanadium pentoxide	1314-62-1	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Vanadium pentoxide	1314-62-1	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Vanadium pentoxide	1314-62-1	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Vanadium pentoxide	1314-62-1	2007-07-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
Vanadium pentoxide	1314-62-1	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
H302	Harmful if swallowed.
H302 + H332	Harmful if swallowed or if inhaled
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H401	Toxic to aquatic life.

HMIS Rating

Health hazard:	4
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	3
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.8 Revision Date: 03/13/2015 Print Date: 01/29/2016

SAFETY DATA SHEET

Version 3.11
Revision Date 12/01/2015
Print Date 02/18/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Vinyl chloride
Product Number	:	387622
Brand	:	Aldrich
Index-No.	:	602-023-00-7
CAS-No.	:	75-01-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable gases (Category 1), H220
Gases under pressure (Liquefied gas), H280
Carcinogenicity (Category 1A), H350

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H350	May cause cancer.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P281	Use personal protective equipment as required.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381	Eliminate all ignition sources if safe to do so.
P405	Store locked up.
P410 + P403	Protect from sunlight. Store in a well-ventilated place.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS
May form explosive peroxides.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	Chloroethylene
Formula	:	C_2H_3Cl
Molecular weight	:	62.50 g/mol
CAS-No.	:	75-01-4
EC-No.	:	200-831-0
Index-No.	:	602-023-00-7

Hazardous components

Component	Classification	Concentration
Vinyl chloride		
	Flam. Gas 1; Press. Gas Liquefied gas; Carc. 1A; SA ; H220, H280, H350,	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Clean up promptly by sweeping or vacuum.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Contents under pressure. Light sensitive.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Vinyl chloride	75-01-4	TWA	1 ppm	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	1 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Liver damage Lung cancer Confirmed human carcinogen		
		STEL	5 ppm	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	1 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		STEL	5 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		See 1910.1017		
		Potential Occupational Carcinogen See Appendix A		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Splash contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 120 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Liquefied gas
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -153.8 °C (-244.8 °F) - lit.
f)	Initial boiling point and boiling range	-13.4 °C (7.9 °F) - lit.
g)	Flash point	-61.0 °C (-77.8 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or	Upper explosion limit: 33 %(V) Lower explosion limit: 3.6 %(V)

	explosive limits	
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	0.911 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.
Contains the following stabiliser(s):
Hydroquinone (>=0 - <=0.0001 %)
Phenol (>=0 - <=0.01 %)

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5 Incompatible materials
Chemically active metals, Copper

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

LC50 Inhalation - Rat - 0.3 h - 180000 ppm
Remarks: Behavioral:Tremor. Behavioral:Convulsions or effect on seizure threshold. Respiratory disorder

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Human carcinogen.

IARC:	1 - Group 1: Carcinogenic to humans (Vinyl chloride)
NTP:	Known to be human carcinogen (Vinyl chloride)
OSHA:	OSHA specifically regulated carcinogen (Vinyl chloride)

Reproductive toxicity
No data available

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: KU9625000

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Central nervous system -
Stomach - Irregularities - Based on Human Evidence (Phenol)
Liver - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1086 Class: 2.1
Proper shipping name: Vinyl chloride, stabilized
Reportable Quantity (RQ): 1 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1086 Class: 2.1 EMS-No: F-D, S-U
Proper shipping name: VINYL CHLORIDE, STABILIZED

IATA
UN number: 1086 Class: 2.1
Proper shipping name: Vinyl chloride, stabilized
IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components
The following components are subject to reporting levels established by SARA Title III, Section 302:

	CAS-No.	Revision Date
Phenol	108-95-2	2007-07-01
Hydroquinone	123-31-9	2007-07-01

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Vinyl chloride	75-01-4	2007-07-01

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Vinyl chloride	75-01-4	2007-07-01
Phenol	108-95-2	2007-07-01
Hydroquinone	123-31-9	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Vinyl chloride	75-01-4	2007-07-01
Phenol	108-95-2	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Vinyl chloride	75-01-4	2007-07-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
Vinyl chloride	75-01-4	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

	May displace oxygen and cause rapid suffocation.
Carc.	Carcinogenicity
Flam. Gas	Flammable gases
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H350	May cause cancer.
Press. Gas	Gases under pressure
SA	Simple Asphyxiant

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	4
Physical Hazard	3

NFPA Rating

Health hazard:	2
Fire Hazard:	4
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.11 Revision Date: 12/01/2015 Print Date: 02/18/2016

SAFETY DATA SHEET

Creation Date 22-Sep-2009 **Revision Date** 25-Apr-2019 **Revision Number** 6

1. Identification

Product Name **Vinylidene chloride, stabilized**

Cat No. : **AC172290000; AC172290010; AC172290025; AC172290250**

CAS-No 75-35-4
Synonyms 1,1-Dichloroethylene

Recommended Use Laboratory chemicals.
Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 1
Acute oral toxicity	Category 4
Acute Inhalation Toxicity - Vapors	Category 4
Serious Eye Damage/Eye Irritation	Category 2
Carcinogenicity	Category 2
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Nasal Cavities, Liver.	

Label Elements

Signal Word
Danger

Hazard Statements
Extremely flammable liquid and vapor
Causes serious eye irritation

Suspected of causing cancer
May cause damage to organs through prolonged or repeated exposure
Harmful if swallowed or if inhaled

Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Wear eye/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Response
IF exposed or concerned: Get medical attention/advice
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Skin
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
Fire
In case of fire: Use CO_2, dry chemical, or foam for extinction
Storage
Store locked up
Store in a well-ventilated place. Keep cool
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Toxic to aquatic life with long lasting effects
WARNING. Cancer - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Vinylidene chloride	75-35-4	>95
4-Methoxyphenol	150-76-5	0.02

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.

Ingestion Do NOT induce vomiting. Get medical attention.

Most important symptoms and effects Difficulty in breathing. . Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO_2). Dry chemical. Water mist may be used to cool closed containers. Chemical foam. Water mist may be used to cool closed containers.

Unsuitable Extinguishing Media No information available

Flash Point -25 °C / -13 °F

Method - No information available

Autoignition Temperature 520 °C / 968 °F

Explosion Limits
- **Upper** 16.5%
- **Lower** 8.4%
- **Sensitivity to Mechanical Impact** No information available
- **Sensitivity to Static Discharge** No information available

Specific Hazards Arising from the Chemical
Extremely flammable. Vapors may travel to source of ignition and flash back. Vapors may form explosive mixture with air. Containers may explode when heated. Vapors may form explosive mixtures with air.

Hazardous Combustion Products
Carbon monoxide (CO). Carbon dioxide (CO_2). Formaldehyde. peroxides. Hydrogen chloride gas.

Protective Equipment and Precautions for Firefighters
Vapors are heavier than air and may spread along floors. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	4	1	N/A

6. Accidental release measures

Personal Precautions Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Do not let this chemical enter the environment.

7. Handling and storage

Handling

Ensure adequate ventilation. Wear personal protective equipment/face protection. Avoid contact with skin and eyes. Take precautionary measures against static discharges. Do not ingest. If swallowed then seek immediate medical assistance. Handle product only in closed system or provide appropriate exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools. Do not subject to grinding/shock/friction. Avoid breathing dust/fume/gas/mist/vapors/spray. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

Storage

Refrigerator/flammables. Keep away from heat, sparks and flame. Protect from light. May form explosive peroxides on prolonged storage. Keep under nitrogen. Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Vinylidene chloride	TWA: 5 ppm	(Vacated) TWA: 1 ppm (Vacated) TWA: 4 mg/m³		TWA: 5 ppm
4-Methoxyphenol	TWA: 5 mg/m³	(Vacated) TWA: 5 mg/m³	TWA: 5 mg/m³	TWA: 5 mg/m³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures

Use explosion-proof electrical/ventilating/lighting/equipment. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	aromatic
Odor Threshold	No information available
pH	7 2.5 g/l aq.sol
Melting Point/Range	-122 °C / -187.6 °F
Boiling Point/Range	31.2 - 32 °C / 88.2 - 89.6 °F @ 760 mmHg
Flash Point	-25 °C / -13 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	

Upper	16.5%
Lower	8.4%
Vapor Pressure	665 mbar @ 20 °C
Vapor Density	3.4 (Air = 1.0)
Specific Gravity	1.218
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	520 °C / 968 °F
Decomposition Temperature	No information available
Viscosity	.377 mPa.s at 15 °C
Molecular Formula	C2 H2 Cl2
Molecular Weight	96.94

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability May form explosive peroxides. Hazardous polymerization may occur upon depletion of inhibitor. Moisture sensitive. Air sensitive. Light sensitive.

Conditions to Avoid Keep away from open flames, hot surfaces and sources of ignition. Excess heat. Exposure to air. Exposure to light. Incompatible products. Exposure to moist air or water.

Incompatible Materials Strong oxidizing agents, Strong bases, Finely powdered metals, oxygen, Peroxides, Metals, copper, Finely powdered metals, Acids

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2), Formaldehyde, peroxides, Hydrogen chloride gas

Hazardous Polymerization Hazardous polymerization may occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Oral LD50 Category 4. ATE = 300 - 2000 mg/kg.

Vapor LC50 Category 4. ATE = 10 - 20 mg/l.

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Vinylidene chloride	LD50 = 1500 mg/kg (Rat) LD50 = 200 mg/kg (Rat)	Not listed	LC50 = 1.66 mg/L (Rat) 4 h LC50 = 6350 ppm (Rat) 4 h
4-Methoxyphenol	1600 mg/kg (Rat)	LD50 > 2000 mg/kg (Rabbit)	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation May cause skin, eye, and respiratory tract irritation

Sensitization No information available

Carcinogenicity Limited evidence of a carcinogenic effect. The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Vinylidene chloride	75-35-4	Group 2B	Not listed	Not listed	X	Not listed
4-Methoxyphenol	150-76-5	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects Ames test: positive.

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure Nasal Cavities Liver

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

The product contains following substances which are hazardous for the environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Vinylidene chloride	Not listed	LC50: 161 - 179 mg/L, 96h static (Pimephales promelas) LC50: 57 - 91 mg/L, 96h static (Lepomis macrochirus) LC50: 85 - 117 mg/L, 96h flow-through (Pimephales promelas)	EC50 > 2000 mg/L 17 h	LC50: 62 - 110 mg/L, 48h Static (Daphnia magna) LC50: 9.0 - 14.0 mg/L, 48h Static (Daphnia magna)
4-Methoxyphenol	Not listed	LC50: = 28.5 mg/L, 96h flow-through (Oncorhynchus mykiss) LC50: = 84.3 mg/L, 96h flow-through (Pimephales promelas)	EC50 = 3.66 mg/L 5 min EC50 = 4.30 mg/L 15 min EC50 = 4.61 mg/L 30 min	Not listed

Persistence and Degradability No information available

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its volatility.

Component	log Pow
Vinylidene chloride	2.02
4-Methoxyphenol	1.3

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Vinylidene chloride - 75-35-4	U078	-

14. Transport information

DOT

UN-No	UN1303
Proper Shipping Name	VINYLIDENE CHLORIDE, STABILIZED
Hazard Class	3
Packing Group	I

TDG

UN-No	UN1303
Proper Shipping Name	VINYLIDENE CHLORIDE, STABILIZED
Hazard Class	3
Packing Group	I

IATA

UN-No	UN1303
Proper Shipping Name	VINYLIDENE CHLORIDE, STABILIZED
Hazard Class	3
Packing Group	I

IMDG/IMO

UN-No	UN1303
Proper Shipping Name	VINYLIDENE CHLORIDE, STABILIZED
Hazard Class	3
Subsidiary Hazard Class	P
Packing Group	I

15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Vinylidene chloride	75-35-4	X	ACTIVE	-
4-Methoxyphenol	150-76-5	X	ACTIVE	-

Legend:
TSCA - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories
Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Vinylidene chloride	75-35-4	X	-	200-864-0	X	X	X	X	KE-10122
4-Methoxyphenol	150-76-5	X	-	205-769-8	X	X	X	X	KE-23353

U.S. Federal Regulations

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Vinylidene chloride	75-35-4	>95	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Vinylidene chloride	X	100 lb	X	X

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Vinylidene chloride	X		-

OSHA - Occupational Safety and Health Administration: Not applicable

CERCLA: This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Vinylidene chloride	100 lb 1 lb	-

California Proposition 65: This product contains the following Proposition 65 chemicals.

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Vinylidene chloride	75-35-4	Carcinogen	0.88 µg/day	Carcinogen

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Vinylidene chloride	X	X	X	X	X
4-Methoxyphenol	X	X	X	-	X

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security: This product contains the following DHS chemicals:
Legend - STQs = Screening Threshold Quantities, APA = A placarded amount

Component	DHS Chemical Facility Anti-Terrorism Standard
Vinylidene chloride	Release STQs - 10000lb

Other International Regulations

Mexico - Grade: No information available

16. Other information

Prepared By: Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 22-Sep-2009
Revision Date 25-Apr-2019
Print Date 25-Apr-2019
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Version 4.9
Revision Date 08/24/2015
Print Date 02/07/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Zinc
Product Number	:	324930
Brand	:	Aldrich
Index-No.	:	030-001-00-1
CAS-No.	:	7440-66-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Self-heating substances and mixtures (Category 1), H251
Substances and mixtures, which in contact with water, emit flammable gases (Category 1), H260
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word	Danger
Hazard statement(s)	
H251	Self-heating: may catch fire.
H260	In contact with water releases flammable gases which may ignite spontaneously.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P223	Do not allow contact with water.
P231 + P232	Handle under inert gas. Protect from moisture.
P235 + P410	Keep cool. Protect from sunlight.
P273	Avoid release to the environment.

P280	Wear protective gloves/ eye protection/ face protection.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.
P402 + P404	Store in a dry place. Store in a closed container.
P407	Maintain air gap between stacks/ pallets.
P413	Store bulk masses greater than .? kg/ .? lbs at temperatures not exceeding .? °C/ .? °F.
P420	Store away from other materials.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Combustible dust

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Zn
Molecular weight	:	65.39 g/mol
CAS-No.	:	7440-66-6
EC-No.	:	231-175-3
Index-No.	:	030-001-00-1

Hazardous components

Component	Classification	Concentration
Zinc powder (pyrophoric)		
	Self-heat. 1; Water-react. 1; Aquatic Acute 1; Aquatic Chronic 1; H251, H260, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Dry powder

5.2 Special hazards arising from the substance or mixture
Zinc/zinc oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Never allow product to get in contact with water during storage.

Keep in a dry place.
Storage class (TRGS 510): Pyrophoric and self-heating hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Protective gloves against thermal risks

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: grey
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 420 °C (788 °F) - lit.
f)	Initial boiling point and boiling range	907 °C (1,665 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	May form combustible dust concentrations in air
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	1 hPa (1 mmHg) at 487 °C (909 °F)

l)	Vapour density	No data available
m)	Relative density	7.133 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 5
p)	Auto-ignition temperature	The substance or mixture is classified as self heating with the category 1.
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts violently with water.

10.4 Conditions to avoid
Exposure to moisture

10.5 Incompatible materials
Strong acids and oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: ZG8600000

chills, dry throat, sweet taste, Fever, Cough, Nausea, Vomiting, Weakness
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Cyprinus carpio (Carp) - 450.0 µg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - 0.068 mg/l - 48 h
	mortality NOEC - Daphnia (water flea) - 0.101 - 0.14 mg/l - 7 d

12.2 Persistence and degradability

12.3 Bioaccumulative potential

Bioaccumulation	Algae - 7 d at 16 °C - 5 µg/l Bioconcentration factor (BCF): 466

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1436 Class: 4.3 (4.2) Packing group: II
Proper shipping name: Zinc powder
Reportable Quantity (RQ): 1000 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1436 Class: 4.3 (4.2) Packing group: II EMS-No: F-G, S-O
Proper shipping name: ZINC POWDER
Marine pollutant:yes
IATA
UN number: 1436 Class: 4.3 (4.2) Packing group: II
Proper shipping name: Zinc powder

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Zinc powder (pyrophoric)	7440-66-6	1993-04-24

SARA 311/312 Hazards
Reactivity Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Zinc powder (pyrophoric)	7440-66-6	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Zinc powder (pyrophoric)	7440-66-6	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Zinc powder (pyrophoric)	7440-66-6	1993-04-24

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H251	Self-heating: may catch fire.
H260	In contact with water releases flammable gases which may ignite spontaneously.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Self-heat.	Self-heating substances and mixtures

HMIS Rating
Health hazard: 0

Chronic Health Hazard:	
Flammability:	3
Physical Hazard	1

NFPA Rating

Health hazard:	0
Fire Hazard:	3
Reactivity Hazard:	1
Special hazard.I:	W

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.9 Revision Date: 08/24/2015 Print Date: 02/07/2016

SAFETY DATA SHEET

Version 6.7
Revision Date 08/05/2024
Print Date 08/06/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Sodium nitrate

Product Number : S5506
Brand : SIGALD
CAS-No. : 7631-99-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Oxidizing solids (Category 3), H272
Eye irritation (Category 2A), H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

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2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word: Warning

Hazard Statements

H272	May intensify fire; oxidizer.
H319	Causes serious eye irritation.

Precautionary Statements

P210	Keep away from heat.
P220	Keep/Store away from clothing/ combustible materials.
P221	Take any precaution to avoid mixing with combustibles.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/ eye protection/ face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	$NNaO_3$
Molecular weight	:	84.99 g/mol
CAS-No.	:	7631-99-4
EC-No.	:	231-554-3

Component	Classification	Concentration
sodium nitrate		
	Ox. Sol. 3; Eye Irrit. 2A; H272, H319	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

No data available

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4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media
No data available

5.2 Special hazards arising from the substance or mixture
Nitrogen oxides (NOx)
Sodium oxides
Not combustible.

5.3 Advice for firefighters
No data available

5.4 Further information
No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
For personal protection see section 8.

6.2 Environmental precautions
No data available

6.3 Methods and materials for containment and cleaning up
No data available

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
No data available

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

Control of environmental exposure
Prevent product from entering drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odor	odorless
c)	Odor Threshold	Not applicable
d)	pH	5.5 - 8.0 at 50 g/l at 20 °C (68 °F)
e)	Melting point/freezing point	Melting point: 308 °C (586 °F)
f)	Initial boiling point and boiling range	380 °C 716 °F
g)	Flash point	()Not applicable

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h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	The product is not flammable.
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	Not applicable
m)	Density	2.26 g/cm3 at 20 °C (68 °F)
	Relative density	No data available
n)	Water solubility	874 g/l at 20 °C (68 °F) - soluble
o)	Partition coefficient: n-octanol/water	Not applicable for inorganic substances
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	The substance or mixture is classified as oxidizing with the category 3.

9.2 Other safety information

Relative vapor density	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

Risk of explosion with:
Powdered metals
aluminium oxide
boron phosphide
Cyanides
Acetic anhydride
sodium phosphite
sodium thiosulphate
performic acid

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sulfur
Polyvinyl chloride
Risk of ignition or formation of inflammable gases or vapours with:
Risk of explosion with:
organic combustible substances
oxidisable substances
carbon
Arsenic oxides

10.4 Conditions to avoid

Fusion of mixtures of metal cyanides, including lead thiocyanate, with metal chlorates, perchlorates, nitrates or nitrites causes a violent explosion. Addition of one solid component (even as a residue in small amount) to another molten component is also highly dangerous. Heat.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - male and female - 3,430 mg/kg
(OECD Test Guideline 401)
Symptoms: Irritation of mucous membranes, Nausea, Vomiting, Diarrhea
Symptoms: Possible damages:, mucosal irritations
LD50 Dermal - Rat - male and female - > 5,000 mg/kg
(OECD Test Guideline 402)

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation - 4 h
(OECD Test Guideline 404)
Remarks: The value is given in analogy to the following substances: Ammonium nitrate

Serious eye damage/eye irritation
Eyes - Rabbit
Result: irritating
(OECD Test Guideline 405)

Respiratory or skin sensitization
Local lymph node assay (LLNA) - Mouse
Result: negative
(OECD Test Guideline 429)

Germ cell mutagenicity
Test Type: Mutagenicity (mammal cell test): chromosome aberration.
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation

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Method: OECD Test Guideline 473
Result: negative
Test Type: Mutagenicity (mammal cell test): chromosome aberration.
Test system: Chinese hamster fibroblasts
Metabolic activation: without metabolic activation
Result: positive
Remarks: (ECHA)
Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional Information

Repeated dose toxicity - Rat - male and female - Oral - 28 d - NOAEL (No observed adverse effect level) - >= 1,500 mg/kg
Remarks: The value is given in analogy to the following substances: potassium nitrate

RTECS: WC5600000
Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After absorption of large quantities:

Methaemoglobinaemia with headache, cardiac arrhythmia, drop in blood pressure, dyspnoea, and spasms, key symptom: cyanosis (blue colouration of the blood).

The following applies to nitrites/nitrates in general: methaemoglobinaemia after the uptake of large quantities.

Other dangerous properties can not be excluded.

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Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

No data available

Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 3,581 mg/l - 48 h Remarks: (IUCLID)
Toxicity to bacteria	static test EC50 - activated sludge - > 1,000 mg/l - 3 h (OECD Test Guideline 209)

12.2 Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

No data available

SECTION 14: Transport information

DOT (US)

UN number: 1498 Class: 5.1 Packing group: III

Proper shipping name: Sodium nitrate

Reportable Quantity (RQ):

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Poison Inhalation Hazard: No

IMDG
UN number: 1498 Class: 5.1 Packing group: III EMS-No: F-A, S-Q
Proper shipping name: SODIUM NITRATE

IATA
UN number: 1498 Class: 5.1 Packing group: III
Proper shipping name: Sodium nitrate

SECTION 15: Regulatory information

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Reactivity Hazard

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

sodium nitrate 7631-99-4 >= 90 - <= 100 %

US State Regulations

Massachusetts Right To Know

sodium nitrate 7631-99-4

Pennsylvania Right To Know

sodium nitrate 7631-99-4

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

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No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16: Other information

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

Version: 6.7 Revision Date: 08/05/2024 Print Date: 08/06/2024

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ATTACHMENT F

JOBSITE SAFETY INSPECTION CHECKLIST

Jobsite Safety Inspection Checklist

Date: _____ **Inspected By:** _____

Location: _____ **Project #:** _____

Check one of the following: **A:** Acceptable **NA**: Not Applicable **D**: Deficiency

	A	NA	D	Remark
1. HASP available onsite for inspection?				
2. Health & Safety Compliance agreement (in HASP) appropriately signed by Langan employees and contractors?				
3. Hospital route map with directions posted on site?				
4. Emergency Notification List posted on site?				
5. First Aid kit available and properly stocked?				
6. Personnel trained in CPR/First Aid on site?				
7. MSDSs readily available, and all workers knowledgeable about the specific chemicals and compounds to which they may be exposed?				
8 Appropriate PPE being worn by Langan employees and contractors?				
9. Project site safe practices ("Standing Orders") posted?				
10. Project staff have 40-hr./8-hr./Supervisor HAZWOPER training?				
11. Project staff medically cleared to work in hazardous waste sites and fit-tested to wear respirators, if needed?				
12. Respiratory protection readily available?				
13. Health & Safety Incident Report forms available?				
14. Air monitoring instruments calibrated daily, and results recorded on the Daily Instrument Calibration check sheet?				
15. Air monitoring readings recorded on the air monitoring data sheet/field logbook?				
16. Subcontract workers have received 40-hr./8-hr./Spvsr. HAZWOPER training, as appropriate?				
17. Subcontract workers medically cleared to work on site, and fit-tested for respirator wear?				
18. Subcontract workers have respirators readily available?				
19. Mark outs of underground utilities done prior to initiating any subsurface activities?				
20. Decontamination procedures being followed as outlined in HASP?				
21. Are tools in good condition and properly used?				
22. Drilling performed in areas free from underground objects including utilities?				

23. Adequate size/type fire extinguisher supplied?				
24. Equipment at least 20 feet from overhead powerlines?				
25. Evidence that drilling operator is responsible for the safety of his rig.				
26. Trench sides shored, layer back, or boxed?				
27. Underground utilities located, and authorities contacted before digging?				
28. Ladders in trench (25-foot spacing)?				
29. Excavated material placed more than 2 feet away from excavation edge?				
30. Public protected from exposure to open excavation?				
31. People entering the excavation regarding it as a permit-required confined space and following appropriate procedures?				
32. Confined space entry permit is completed and posted?				
33. All persons knowledgeable about the conditions and characteristics of the confined space?				
34. All persons engaged in confined space operations have been trained in safe entry and rescue (non-entry)?				
35. Full body harnesses, lifelines, and hoisting apparatus available for rescue needs?				
36. Attendant and/or supervisor certified in basic first aid and CPR?				
37. Confined space atmosphere checked before entry and continuously while the work is going on?				
38. Results of confined space atmosphere testing recorded?				
39. Evidence of coordination with off-site rescue services to perform entry rescue, if needed?				
40. Are extension cords rated for this work being used and are they properly maintained?				
41. Are GFCIs provided and being used?				

Unsafe Acts: _____

_____

_____

_____

Notes: _____

_____

_____

_____

ATTACHMENT G

JOB SAFETY ANALYSIS FORM

LANGAN	Job Safety Analysis (JSA) Health and Safety
JSA TITLE: **JSA NUMBER:**	**DATE CREATED:** **CREATED BY**: **REVISION DATE:** **REVISED BY:**

Langan employees must review and revise the Job Safety Analysis (JSA) as needed to address the any site-specific hazards not identified. Employees must provide their signatures on the last page of the JSA indicating they have review the JSA and are aware the potential hazards associated with this work and will follow the provided preventive or corrective measures.

PERSONAL PROTECTIVE EQUIPMENT REQUIRED: (PPE): ■ Required ☒ As Needed		
☐ Steel-toed boots	☐ Nitrile gloves	☐ Dermal Protection (Specify)
☐ Long-sleeved shirt	☐ Leather/ Cut-resistant gloves	☐ High visibility vest/clothing
☐ Safety glasses	☐ Face Shield	☐ Hard hat
ADDITIONAL PERSONAL PROTECTIVE EQUIPMENT NEEDED (Provide specific type(s) or descriptions)		
☐ Air Monitoring:	☐ Respirators:	☐ Other:
☐ Dermal Protection:	☐ Cartridges:	☐ Other:

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE OR CORRECTIVE ACTION
1.	1. 2.	1a. 1b. 2a. 2b.
2.	1.	1
Additional items identified in the field.		
Additional Items.		

If additional items are identified during daily work activities, please notify all relevant personnel about the change and document on this JSA.

LANGAN	Job Safety Analysis (JSA) Health and Safety
JSA Title: COVID-19 Awareness – Site Work **JSA Number: JSA046-00**	
A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.	

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Boots	☐ Long Sleeves	☐ Safety Vest (Class 2)	☐ Hard Hat	☐ Hearing Protection
☐ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☐ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Alcohol-based hand sanitizer, disinfectant wipes/spray				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
1. All Activities	1. Transmittal/exposure of COVID-19	1. Ask yourself and your managers – is this work essential? Can this be done remotely? 2. Stay home if sick or showing symptoms of COVID-19 (e.g., fever, cough, etc.). 3. Carry nitrile gloves, alcohol-based hand sanitizer, face coverings and disinfectant wipes/spray during field work. 4. Check federal, state, and/or local travel restrictions **prior** to travel. Many states, counties, and cities are passing strict "shelter-in-place" or business restrictions in response to COVID-19. 5. Immediately notify Beverly Williams or Rory Johnston (Supervisor if employee chooses) if you display symptoms of COVID-19. Symptoms include fever (over 100.4 F), cough, and shortness of breath. 6. Notify Beverly Williams or Rory Johnston, Supervisor and Coronavirus Task Force if you had close contact with an individual who tested positive or displayed symptoms of COVID-19. 7. Do not touch your face, to the extent possible. 8. Wear face coverings when around other worker to minimize spread of COVID-19. (May be required in certain states or locations.)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		9. Practice social distancing, maintaining at least 6 feet of distance between yourself and others. Avoid gatherings of more than 10 people. Limit, to the extent possible, contact with public items/objects. 10. Clean your hands frequently with soap and water for at least 20 seconds especially after you have been in a public place, or after blowing your nose, coughing, sneezing, or using the rest room. 11. If soap and water are not readily available, use a hand sanitizer that contains at least 60% alcohol. Cover all surfaces of your hands and rub them together until they feel dry. 12. Cover your mouth and nose with a tissue when you cough or sneeze or use the inside of your elbow. 13. Clean and disinfect frequently touched surfaces daily, for example, cell phones, computer equipment, headsets, tables, doorknobs, light switches, countertops, handles, desks, toilets, faucets, and sinks.
2. Travel to Jobsite	1. Transmittal/exposure of COVID-19 between passengers 2. Transmittal/exposure of COVID-19 from previous occupants (rental and fleet vehicles) 3. Transmittal/exposure of COVID-19 while refueling	1. Limit the number of occupants to each vehicle to 2 people. Employees should sit as far away from each other as possible. 2. Disinfect high “hand-traffic” areas of the vehicle: Door handles, steering wheel, turn signal and control rods, dashboard controls, seatbelts, armrests, etc. To the extent possible, do not use recycled air for heat/AC and travel with the windows open. 3. Use hand sanitizer before and after pumping gas and only return to the inside of the vehicle after refueling is complete. 4. Wear nitrile gloves if available or disinfect the keypad, pump handle, and fuel grade button prior to use. 5. Recommend face coverings are worn to minimize spread of COVID-19.
3. Conduct Tailgate Safety Meeting & Complete H&S Paperwork	1. Transmittal/exposure of COVID-19 between meeting participants	1. Practice social distancing, maintaining at least 6 feet of distance between yourself and others. 2. Recommend face coverings are worn when around other workers to minimize spread of COVID-19, 3. Hold meetings outside and keep in mind wind direction. To the extent possible, remain crosswind from other people. 4. Designate a single person to maintain sign-in sheets/permits throughout the day to limit the passing of pens/clipboards between people. 5. Each person should complete their own JSA, even if they are completing similar tasks as others in order to limit the passing of paper/pens/clipboards between people. 6. Include COVID-19 topics and prevention measures in safety meetings.
4. Conduct Site Work	1. Transmittal/exposure of COVID-19 between site workers and public.	1. Practice social distancing maintaining 6 feet of distance between yourself and others. 2. Recommend face coverings are worn when around other workers to minimize spread of COVID-19, 3. To the extent possible, do not interact with the public. If it is necessary, politely explain you are practicing social distance and request they stay at least 6 feet away and they do not attempt to pass objects to you. 4. Wear nitrile gloves during site work underneath the appropriate gloves for your task. Utilize appropriate decontamination procedures, securely bag all waste (including nitrile gloves) generated during site work and dispose of.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		5. Do not share tools. Each person should be equipped with the tools to complete their task or tasks should be divided to remove the need to share tools. If tools must be shared, surfaces should be disinfected. 6. Clean and disinfect surfaces of rental tools and equipment upon receipt. To the extent possible rent equipment from Langan's internal equipment reservation center, where cleaning/disinfecting procedures can be verified.
5. Use of Construction Trailers	1. Transmittal/exposure of COVID-19 between site workers and others.	1. Avoid use of shared trailers, if possible. Minimize trailer use to essential personnel. 2. Practice social distancing; maintaining 6 feet of distance between yourself and others in trailer. 3. Clean and disinfect areas including desks, phones, chairs, and other common areas, before and after use.
6. Purchasing Food from a Restaurant	1. Transmittal/exposure of COVID-19 from other customers, staff, surfaces.	1. To the extent possible, bring your own food. 2. If you must visit a restaurant, call ahead for take-out or "contactless delivery." Do not dine in. When picking up food, follow guidelines for Job Step #8: Purchasing Supplies at Retail/Shipping Centers. 3. Wash hands before and after eating.
7. Smoking Cigarettes	1. Transmittal/exposure of COVID-19 by touching mouth with hands	1. Cigarette smokers are at greater risk of complications arising from COVID-19. Nicotine patches/lozenges/gum, smoking cessation programs, and prescription medications may aid in "kicking the habit" if you decide to quit. 2. Wash hands thoroughly before and after smoking. 3. Discard cigarette butts properly. Do not light cigarettes from others and do not give cigarettes to others.
8. Hotel Stay	1. Transmittal/exposure of COVID-19 from previous occupants, hotel staff, common areas.	1. Verify the hotel chain/brand has modified cleaning procedures to reflect risk of COVID-19. Most hotel companies have issued statements on their websites and in email blasts reflecting these new procedures. 2. Use the front door, and not peripheral entrances. Front doors of hotels are usually automatic. 3. Request ground floor room to avoid elevator use and a room that has not be utilized in 48-72 hours. 4. If elevator use is required, do not directly touch elevator buttons with your hands. Do not ride elevators with other people, to the extent possible. 5. Bring disinfecting wipes or sanitizing spray. Upon arrival, disinfect high "hand-traffic" areas of the hotel room: Door handles, light switches, shower/sink faucet handles, TV remote, curtain/blind handles. Clean these surfaces daily. 6. Place the "Do Not Disturb" Sign on your door to prevent people (housekeeping) from entering your room. 7. Avoid common spaces and hotel sponsored events where crowds will be present. 8. Confirm hotel cleaning procedures have been modified to address COVID-19. Confirm no COVID-19 cases have occurred in hotel
9. Purchasing Supplies at Retail/Shipping Centers	1. Transmittal/exposure of COVID-19 from other customers, staff, surfaces.	1. Plan your travel to limit the need to visit retail/shipping centers. 2. Practice social distancing, maintaining at least 6 feet of distance between yourself and others. If the store is too crowded/small, consider visiting another store or returning at a different time. 3. Avoid high "hand-traffic" items/areas like door handles (i.e. use your shoulder, hip/butt, or open with a disposable napkin/paper towel), credit cards terminals (i.e. use Apple/Android pay if available), shopping carts/baskets (i.e. bring your own shopping

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		bags), counter tops (i.e. ask clerk if you can hold the items while they are scanned) and bulk/buffet items (i.e. just avoid them). 4. Disinfect your hands before and after visiting a retail/shipping center.

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Environmental Sampling**
JSA Number: **JSA021-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☐ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☒ Fire Resistant Clothing	☐ Rubber Boots
☒ Insect/Animal Repellent	☒ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Tyvek Sleeves				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
1. Drive to sample location	1. Rough/Off Road terrain	1. Pay attention to road conditions such as road erosion, unprotected embankments, and soft road conditions.
2. Sample Collection (Walking)	1. Slip/Trips/Falls 2. Back strains 3. Wildlife (Insects, Stray animals, rodents) 4. Poisonous vegetation	1. Minimize distance to sample area/ Plan route and check surface prior to carrying heavy equipment/ Locate safest access point/ Follow good housekeeping procedures/ Mark significant below grade hazards (holes, trenches) with spray paint or cones/ Wear foot protection with ankle support and gripping soles. 2. Use proper lifting techniques/ Use wheeled transport/ Obtain assistance where and when needed/ Consider load weight when evaluating what is safe and unsafe to carry. 3. Be aware of surroundings for the presence of wildlife. Do not approach stray animals. Carry and use animal repellant when needed/ Use bug spray when needed. 4. Keep skin covered/ Identify and avoid poisonous vegetation/ Clean areas after contact with suspected vegetation.
3. Sample Collection (Water)	1. Drowning Hazards 2. Chemical burns (when adding acid preservative to sample) 3. Back Strains 4. Ergonomic issues 5. Slip/Trips/Falls	1. Use buddy system/ Wear flotation vest if water is deeper than 2 feet or swift moving/ Select working area with stable footing. Do not attempt to cross or stand in swift moving water. 2. Wear proper PPE (Nitrile gloves, Tyvek Sleeves) 3. Use proper lifting techniques/ Use wheeled transport/ Obtain assistance where and when needed/ Consider load weight when evaluating what is safe or unsafe to carry. 4. When possible, avoid bending over for long periods of time/ Use a small stool for sitting or knee pad for kneeling.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		5. Minimize distance to sample area/ Plan route and check surface prior to carrying heavy equipment/ Locate safest access point/ Follow good housekeeping procedures/ Mark significant below grade hazards (holes, trenches) with spray paint or cones/ Wear foot protection with ankle support and gripping soles/ Avoid standing water or slippery terrain.
4. All activities	1. Slips/ Trips/ Falls 2. Hand injuries, cuts, or lacerations during manual handling of materials 3. Foot injuries 4. Back injuries 5. Traffic 6. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 7. High Noise levels 8. Overhead hazards 9. Heat Stress/ Cold Stress 10. Eye Injuries	1. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves 3. Wear Langan approved safety shoes 4. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 5. Wear high visibility clothing & vest / Use cones or signs to designate work area 6. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 7. Wear hearing protection 8. Wear hard hat / Avoid areas where overhead hazards exist. 9. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 10. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Subsurface Investigation**
JSA Number: **JSA030-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Dielectric Overshoes, Sun Block				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
5. Transport equipment to work area	2. Back/strain 3. Slip/Trip/Falls 4. Traffic 5. Cuts/abrasions/contusions from equipment 6. Accidents due to vehicle operations	1. Use proper lifting techniques/Use wheeled transport 2. Minimize distance to work area/unobstructed path to work area/follow good housekeeping procedures 3. Wear proper PPE (high visibility vest or clothing) 4. Wear proper PPE (leather gloves, long sleeves, Langan approved safety shoes) 5. Observe posted speed limits/ Wear seat belts at all times
6. Traffic	1. Hit by moving vehicle	1. Use traffic cones and signage/ Use High visibility traffic vests and clothing/ Caution tape when working near active roadways.
7. Field Work (drilling, resistivity testing, and inspection)	1. Biological Hazards: insects, rats, snakes, poisonous plants, and other animals 2. Heat stress/injuries 3. Cold Stress/injuries 4. High Energy Transmission Lines 5. Underground Utilities 6. Electrical (soil resistivity testing)	1. Inspect work area to identify biological hazards. Wear light colored long sleeve shirt and long pants/ Use insect repellant as necessary/ Beware of tall grass, bushes, woods, and other areas where ticks may live/ Avoid leaving garbage on site to prevent attracting animals/ Identify and avoid contact with poisonous plants/Beware of rats, snakes, or stray animals. 2. Wear proper clothing (light colored)/ drink plenty of water/ take regular breaks/use sun block. 3. Wear proper clothing/ dress in layers/ take regular breaks. 4. Avoid direct contact with high energy transmission lines/ position equipment at least 15 feet or as required by PSE&G from the transmission lines/ wear proper PPE (dielectric overshoes 15 kV minimum rating).

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		5. Call one-call service before performing intrusive field work/ Review utility mark-outs and available utility drawings (with respect to proposed work locations)/ Follow Underground Utility Guidelines 6. See AGI Sting R1 operating manual for specific concerns during operating instrument
8. All activities	1. Slips/ Trips/ Falls 2. Hand injuries, cuts, or lacerations during manual handling of materials 3. Foot injuries 4. Back injuries 5. Traffic 6. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 7. High Noise levels 8. Overhead hazards 9. Heat Stress/ Cold Stress 10. Eye Injuries	7. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 8. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 9. Wear Langan approved safety shoes. 10. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 11. Wear high visibility clothing & vest / Use cones or signs to designate work area. 12. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 13. Wear proper hearing protection. 14. Wear hard hat / Avoid areas where overhead hazards exist. 15. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 16. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Field Sampling**
JSA Number: **JSA022-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – *Stop,* *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):

☒ Safety Shoes	☒ Long Sleeves	☐ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
9. Unpack/Transport equipment to work area.	7. Back Strains 8. Slip/Trips/Falls 9. Cuts/Abrasions from equipment 10. Contusions from dropped equipment	6. Use proper lifting techniques/Use wheeled transport. 7. Minimize distance to work area/Unobstructed path to work area/follow good housekeeping procedures. Mark slip/trip/fall hazards with orange safety cones. 8. Wear proper PPE (leather gloves, long sleeves). 9. Wear proper PPE (Langan approved safety shoes).
10. Initial Site Arrival-Site Assessment	5. Traffic	5. Situational awareness (be alert of your surroundings). Secure area from through traffic.
11. Surface Water Sampling	6. Contaminated media. Skin/eye contact with biological agents and/or chemicals.	6. Wear appropriate PPE (Safety glasses, appropriate gloves). Review (M)SDS for all chemicals being.
12. Sampling from bridges	1. Struck by vehicles	1. Wear appropriate PPE (Safety Vest). Use buddy system and orange safety cones.
13. Icing of Samples/ Transporting coolers/equipment from work area.	11. Back Strains 12. Slips/Trips/Falls 13. Cuts/Abrasions from equipment 14. Pinch/Crushing Hazards.	17. Drain coolers of water. Use proper lifting techniques. Use wheeled transport. 18. Have unobstructed path from work area. Aware of surroundings. 19. Wear proper PPE (Leather gloves, long sleeves) 20. Wear proper PPE (Leather gloves, long sleeves)
14. Site Departure	1. Contaminated PPE/Vehicle	1. Contaminated PPE should be disposed of on-site. Remove boots and soiled clothing for secure storage in trunk. Wash hands promptly.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
15. All activities	1. Slips/ Trips/ Falls 2. Hand injuries, cuts, or lacerations during manual handling of materials 3. Foot injuries 4. Back injuries 15. Traffic 16. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 17. High Noise levels 18. Overhead hazards 19. Heat Stress/ Cold Stress 20. Eye Injuries	1. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves 3. Wear Langan approved safety shoes 4. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 21. Wear high visibility clothing & vest / Use cones or signs to designate work area. 22. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 23. Wear hearing protection 24. Wear hard hat / Avoid areas where overhead hazards exist. 25. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 26. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Equipment Transportation and Set-up**
JSA Number: **JSA012-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
16.Transport equipment to work area	11.Back Strain 12.Slips/ Trips/ Falls 13.Traffic 14.Cuts/abrasions from equipment 15.Contusions from dropped equipment	1. Use proper lifting techniques / Use wheeled transport. 2. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures. 3. Wear proper PPE (high visibility vest or clothing) 4. Wear proper PPE (leather gloves, long sleeves) 5. Wear proper PPE (safety shoes)
17.Moving equipment to its planned location	6. Pinch Hazard 7. Slips/ Trips/ Falls	1. Wear proper PPE (leather gloves) 2. Be aware of potential trip hazards / Practice good housekeeping procedures / Mark significant below-grade hazards (i.e., holes, trenches) with safety cones or spray paint
18.Equipment Set-up	7. Pinch Hazard 8. Cuts/abrasions to knuckles/hands. 9. Back Strain	1. Wear proper PPE (leather gloves) 2. Wear proper PPE (leather gloves) 3. Use proper lifting techniques / Use wheeled transport
19. All activities	21. Slips/ Trips/ Falls 22. Hand injuries, cuts, or lacerations during manual handling of materials 23. Foot injuries 24. Back injuries 25. Traffic 26. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.)	27. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 28. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 29. Wear Langan approved safety shoes.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
4. All activities (cont'd)	27. High Noise levels 28. Overhead hazards 29. Heat Stress/ Cold Stress 30. Eye Injuries	30. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 31. Wear high visibility clothing & vest / Use cones or signs to designate work area. 32. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 33. Wear hearing protection 34. Wear hard hat / Avoid areas where overhead hazards exist. 35. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 36. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **55-gallon Drum Sampling**
JSA Number: **JSA043-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☒ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: All Drums are required to be labeled. Langan employees do not open or move undocumented drums or unlabeled drums without proper project manager authorization.				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
20.Unpack/Transport equipment to work area.	16.Back Strains 17.Slip/Trips/Falls 18.Cuts/Abrasions from equipment 4. Contusions from dropped equipment	10. Use proper lifting techniques/Use wheeled transport. 11. Minimize distance to work area/Unobstructed path to work area/follow good housekeeping procedures. Mark slip/trip/fall hazards with orange safety cones. 12. Wear proper PPE (leather gloves, long sleeves). 4. Wear proper PPE (Langan approved safety shoes).
21.Open Drums	1. Hand Injuries, cuts or lacerations when untightening drum locking bolt, removing drum lid strap, or removing lid. 2. Pressure from drums.	1. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. Use non-metallic mallet and non-sparking tools/wrenches. 2. Open drum slowly to relieve pressure. Wear proper PPE: face shield and goggles; correct gloves; and over garments.
22.Collecting Soil/Fluid Sample	8. Irritation to eye from vapor, soil dust, or splashing. 9. Irritation to exposed skin	6. Wear proper eye protection including safety glasses/ face shield/googles and when necessary, splash guard. If dust or vapor phase is present, wear appropriate safety breathing gear (1/2 mask or full face mask with correct filter) 7. Wear proper skin protection including nitrile gloves.
23.Closing Drums	1. Hand Injuries, cuts or lacerations when untightening drum locking bolt, removing drum lid strap, or removing lid.	7. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. Use non-metallic mallet and non-sparking tools/wrenches.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
24.Moving Drums	2. Hand Injuries, cuts or lacerations when untightening drum locking bolt, removing drum lid strap, or removing lid. 3. Back Strains	2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. Use non-metallic mallet and non-sparking tools/wrenches. 3. Use proper lifting techniques/Use wheeled transport.
25. All activities	31. Slips/ Trips/ Falls 32. Hand injuries, cuts, or lacerations during manual handling of materials 33. Foot injuries 34. Back injuries 35. Traffic 36. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 37. High Noise levels 38. Overhead hazards 39. Heat Stress/ Cold Stress 40. Eye Injuries	37. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 38. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 39. Wear Langan approved safety shoes. 40. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 41. Wear high visibility clothing & vest / Use cones or signs to designate work area. 42. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 43. Wear hearing protection 44. Wear hard hat / Avoid areas where overhead hazards exist. 45. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 46. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Direct-Push Soil Borings**
JSA Number: **JSA004-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT REQUIRED:				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Half-face respirator, dust cartridges, PID (if applicable)				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
26.Move equipment to work site	19.Back strain when lifting equipment. 20.Slips/ Trips/ Falls while moving equipment. 21.Traffic (if applicable) 22.Pinched fingers or running over toes during GeoProbe set-up. 23.Overturn drilling rig while transporting to loading dock on flat-bed tow truck	13. Use proper lifting technique (use legs for bending and lifting and not the back)/ Use wheeled transport for heavy equipment / Get assistance when handling loads greater than 50 lbs. / Minimize distance to vehicle 14. Use proper lifting technique (use legs for bending and lifting and not the back) / Use wheeled transport for heavy equipment / Get assistance when handling loads greater than 50 lbs. / Minimize distance to vehicle / Have unobstructed path to vehicle or collection point / Do not lift/walk with boxes that are heavy/difficult to lift 15. Wear high visibility safety vests or clothing / Exercise caution 16. Wear proper PPE (cut-resistant gloves) / Stay alert, be aware of geoprobe rig at all times 17. Drill rig should be parked in center of flat-bed tow truck / Emergency brake shall be used at all times during transport on the flat-bed truck/ All unnecessary personnel should stay away from the flat-bed truck during moving activities
27.Calibration of monitoring equipment	10.Skin or eye contact with calibration chemicals 11.Pinch fingers in monitoring equipment	8. Wear proper PPE (safety glasses/ goggles) 9. Wear proper PPE (leather gloves)
28.Set-up GeoProbe rig	10. Geoprobe rig movement	8. All field personnel should stay clear of the GeoProbe rig while moving / Use a spotter when backing up the GeoProbe
29.Advance GeoProbe rods below ground surface to desired depth	4. Underground utilities 5. High noise levels	4. Clean all subsurface soil borings to a minimum of 5 feet below grade. 5. Wear proper PPE (hearing protection)
30. Remove and open acetate liner.	41. Pinched fingers while removing macrocore.	1. Wear proper PPE (nitrile gloves, cut-resistant or leather gloves 2. Wear proper PPE (cut-resistant or leather gloves)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
5. Remove and open acetate liner (cont'd)	42. Cuts/lacerations when cutting acetate liner open. 43. Exposure to hazardous vapors 44. Skin contacts with contaminated soil	3. Do not place face over acetate liner when opening / Monitor hazardous vapors in air with PID / Upgrade PPE as necessary based on levels contained in the Health and Safety Plan 4. Wear proper PPE (nitrile gloves)
31. Sample Collections a) Monitor parameters. b) Prepare sample containers and labels	1. Contact with potentially contaminated soil. 2. Lacerations from broken sample bottles 3. Back strain while transporting full coolers. 4. Internal exposure to contaminants and metals through inhalation of dust 5. Slips/ Trips/ Falls	1. Use monitoring devices / Wear proper PPE (safety glasses, nitrile gloves) 2. Do not over-tighten bottle caps / Handle bottles safely to prevent breakage. 6. Use proper lifting techniques / Do not lift heavy loads without assistance. 7. Avoid creating dust / If necessary, wear a half mask respirator with applicable dust cartridge / Inspect respirator for damage and cleanliness prior to use / Clean respirator after each use and store in a clean, secure location. 8. Be alert / Follow good housekeeping procedures
32. Remove excess soil from acetate liner and place in 55-gallon drum (IF NOT PERFORMED BY LANGAN, REMOVE!)	1. Cuts/lacerations from acetate liner 2. Pinched fingers/hand while opening/closing drum. 3. Skin contacts with contaminated soil 4. Soil debris in eyes	1. Wear proper PPE (cut-resistant or leather gloves) 2. Wear proper PPE (cut-resistant or leather gloves) 3. Wear proper PPE (nitrile gloves) 4. Wear proper PPE (safety glasses)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
8. Transport drums to central staging location (IF NOT PERFORMED BY LANGAN, REMOVE!)	1. Back, arm or shoulder strain from moving drums. 2. Pinch fingers/hand in drum cart when moving drums. 3. Pinch fingers/hand when operating lift-gate on vehicle. 4. Contact with potentially contaminated groundwater when moving improperly sealed drums. 5. Slips when moving drums. 6. Drop drum on feet/toes	47. Use drum cart for moving drums / Use proper lifting techniques / Do not lift heavy loads without assistance. 48. Wear proper PPE (cut-resistant or leather gloves) 49. Wear proper PPE (cut-resistant or leather gloves) 50. Wear proper PPE (nitrile gloves underneath work gloves) 51. Follow good housekeeping procedures / Ensure route to move drum and storage space is free from obstructions. 52. Wear proper PPE (safety shoes) / Work in a safe manner to prevent dropped drum
9. All activities 9. All activities (cont'd)	1. Slips/ Trips/ Falls 2. Hand injuries, cuts, or lacerations during manual handling of materials 3. Foot injuries 4. Back injuries 5. Traffic 6. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 7. High Noise levels 8. Overhead hazards 9. Heat Stress/ Cold Stress 10. Eye Injuries	1. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 3. Wear Langan approved safety shoes. 4. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 5. Wear high visibility clothing & vest / Use cones or signs to designate work area. 6. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 7. Wear hearing protection 8. Wear hard hat / Avoid areas where overhead hazards exist. 9. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 10. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**

Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Geophysical Investigation**
JSA Number: **JSA023-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
33. Transport equipment to work area	24. Back/strain 25. Slip/Trip/Falls 26. Traffic 27. Cuts/abrasions/contusions from equipment	18. Use proper lifting techniques/Use wheeled transport 19. Minimize distance to work area/unobstructed path to work area/follow good housekeeping procedures 20. Wear proper PPE (high visibility vest or clothing) 21. Wear proper PPE (leather gloves, long sleeves, Langan approved safety shoes)
34. Supervision of subcontractor and all other activities	12. Slip/Trips/Falls 13. Hand injuries 14. Foot injuries 15. Back injuries/Strains 16. Traffic 17. Wildlife a. Wildlife b. Mice/rats c. Vectors (i.e., mosquitoes, bees, etc.) 7. Heat/Cold Stress	10. Be aware of potential trip hazards/follow good housekeeping procedures/mark significant below-grade hazards (i.e., holes, trenches, wires, ropes) with safety cones or spray paint. 11. Wear proper PPE (leather gloves)/watch wear you place your hands/inspect material or equipment for jagged, rough, or slippery surfaces/ watch for pinch points/ wipe off slippery, wet, or dirty items prior to handling. 12. Wear proper PPE (Langan approved safety shoes)/ Be aware of uneven terrain) 13. Use proper lifting techniques/ Buddy system when lifting/ use wheeled transport. 14. Wear proper PPE (high-visibility shirts and vests)/ use cones if appropriate/ notify equipment operators of work area. 15. Be aware of surroundings at all times for the presence of wildlife. a. Do not approach stray animals. b. Carry animal repellant/ use if situation arises. c. Use bug spray when needed. 7. Wear proper attire for weather conditions (sunscreen, protective clothing in

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		sunlight or layer clothing in cold weather)/ drink plenty of fluids/ take regular breaks.
35. All activities	45. Slips/ Trips/ Falls 46. Hand injuries, cuts, or lacerations during manual handling of materials 47. Foot injuries 48. Back injuries 49. Traffic 50. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 51. High Noise levels 52. Overhead hazards 53. Heat Stress/ Cold Stress 54. Eye Injuries	53. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 54. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 55. Wear Langan approved safety shoes. 56. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 57. Wear high visibility clothing & vest / Use cones or signs to designate work area. 58. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 59. Wear proper hearing protection. 60. Wear hard hat / Avoid areas where overhead hazards exist. 61. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 62. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Groundwater Sampling**
JSA Number: **JSA008-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☒ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Tyvek sleeves, Dermal Protection, PID				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
36. Transport equipment to work area	1. Back Strain 2. Slips/ Trips/ Falls 3. Traffic 4. Cuts/abrasions from equipment 5. Contusions from dropped equipment	1. Use proper lifting techniques / Use wheeled transport. 2. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures. 3. Wear proper PPE (high visibility vest or clothing) 4. Wear proper PPE (leather gloves, long sleeves) 5. Wear proper PPE (safety shoes)
37. Remove well cover	18. Scrape knuckles/hand 19. Strain wrist/bruise palm 20. Pinch fingers or hand	3. Wear proper PPE (leather gloves) 4. Using a hammer, tap the end of the wrench to loosen grip of bolts. 5. Wear proper PPE (leather gloves)
38. Remove well cap and lock	11. Well can pops from pressure. 12. Exposure to hazardous substances through inhalation or dermal exposure 13. Scrape knuckles/hand 14. Strain write/bruise palm	5. Remove cap slowly to relieve pressure / Do not place face over well when opening / Wear proper PPE (safety glasses) 6. Use direct air monitoring/reading instrument (i.e., PID) / Be familiar with and follow actions prescribed in the HASP / Wear proper PPE (nitrile gloves) 7. Wear proper PPE (leather gloves) 8. Using hammer, tap the end of the wrench to loosen grip
39. Measure head-space vapor levels	1. Exposure to hazardous substances through inhalation	1. Do not place face over well when collecting measurement
40. Remove dedicated tubing (if necessary)	1. Exposure to hazardous substances through inhalation or dermal exposure 2. Tubing swings around after removal	1. Wear proper PPE (nitrile gloves, Tyvek sleeves) 2. Wear proper PPE (safety glasses)
41. Set-up plastic sheeting for work site around the well	1. Lacerations when cutting plastic sheeting.	1. Use scissors to cut plastic sheeting / Cut motions should always be away from body and body parts

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
42. Measure depth to water	1. Exposure to hazardous substances through inhalation or dermal exposure 2. Pinch fingers or hand in water level instrument	1. Wear proper PPE (nitrile gloves) 2. Wear proper PPE (leather gloves)
43. Calibrate monitoring equipment	1. Skin or eye contact with calibration chemicals 2. Pinch fingers or hand in monitoring equipment	1. Wear proper PPE (safety glasses, nitrile gloves) 2. Wear proper PPE (leather gloves) / Avoid pinch points
44. Install sampling pump in well	1. Hand injuries during installation of pump 2. Lacerations when cutting tubing. 3. Back strain during installation of pump 4. Physical hazards associated with manual lifting of heavy equipment. 5. Back strain from starting generator. 6. Burns from hot exhaust from generator. 7. Electrical shock from improper use of generator and pump 8. Contaminated water spray from loose connections	1. Wear proper PPE (leather gloves, nitrile gloves) 2. Use safety tubing cutter. 3. Use proper lifting techniques. 4. Use proper lifting techniques / Use wheeled transport for heavy equipment. 5. Use arm when starting generator / Do not over-strain if generator does not start. 6. Do not touch generator near exhaust / Use proper handle to carry / Allow generator to cool down before moving. 7. Properly plug in pump to generator / Do not allow the pump or generator to contact water / Check for breaks in the cord. 8. Check all tubing connections to ensure they are tight and secure

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
10. Purge water	1. Contact with potentially contaminated groundwater. 2. Back strain from lifting buckets of water 3. Tripping potential on sample discharge lines and pump electric lines	1. Wear proper PPE (safety glasses, nitrile gloves) 2. Use proper lifting techniques / Use wheeled transport. 3. Organize discharge of electric line to keep out of way as much as possible / Mark potential tripping hazards with caution tape or safety cones
11. Sample water collection	1. Contact with potentially contaminated groundwater through dermal exposure. 2. Contact with and burns from acid used for sample preservation. 3. Tripping potential on sample discharge lines and pump electric lines 4. Lacerations from broken sample bottles 5. Back strain when transporting coolers full of collected samples. 6. Slips/ Trips/ Falls	1. Wear proper PPE (safety glasses, nitrile gloves) 2. Wear proper PPE (safety glasses, nitrile gloves) / Ensure sample bottle lids are secure before use and after sample collection. 3. Organize line to keep out of the way as much as possible / Mark potential tripping hazards with caution tape or safety cones. 4. Do not over-tighten bottle caps / Handle bottles safely to prevent breakage / Wrap glass bottles in bubble wrap, if possible 5. Use proper lifting techniques / Use wheeled transport / Seek assistance if coolers weight exceeds 50lbs. / Minimize distance to vehicle. 6. Have unobstructed path to vehicle or collection point / Follow good housekeeping procedures / Do not lift/walk with coolers that are too heavy/difficult to lift
12. Remove pump and pack up equipment	1. Back strain when removing pump or lifting heavy equipment	1. Use proper lifting technique / Use wheeled transport for heavy equipment
13. Replace well cap and lock	1. Scrape fingers/hand 2. Strain wrist/bruise palm	1. Wear proper PPE (leather gloves) 2. Using hammer, tap the end of the well cap to tighten grip
14. Replace well cover	1. Scrape knuckles/hand 2. Strain write/bruise palm. 3. Pinch fingers or hand	1. Wear proper PPE (leather gloves) 2. Using hammer, tap the end of the wrench to tighten the grip of the bolts. 3. Wear proper PPE (leather gloves)
15. Transport drums to disposal staging location	1. Back, arm or shoulder strain from moving drums. 2. Pinch hazard 3. Contact with potentially contaminated groundwater when moving improperly sealed drums. 4. Slips/ Trips/ Falls when moving drum. 5. Drop drum on feet/toes	1. Use drum cart for moving drums / Use proper lifting techniques / Obtain assistance, if needed 2. Wear proper PPE (leather gloves) 3. Wear proper PPE (nitrile gloves under leather gloves) / Properly seal drum to prevent leak. 4. Ensure route to move drum to storage space is dry and free from obstructions. 5. Wear proper PPE (safety shoes)
16. Place used PPE in designated disposal drum	1. Pressure build-up inside drum 2. Pinch hazard	1. Remove cap from bung hole in drum to relieve pressure. 2. Wear proper PPE (leather gloves)
17. Decontaminate equipment	1. Splashing water/soap from decontamination 2. Contact with potentially contaminated groundwater through dermal exposure. 3. Electrical shock from broken electric cords	1. Wear proper PPE (safety glasses) 2. Wear proper PPE (safety glasses, dermal protection) 3. Properly plug in pump to generator / Do not allow the pump or generator to contact water / Check for breaks in the cord
18. All activities	55. Slips/ Trips/ Falls 56. Hand injuries, cuts, or lacerations during manual handling of materials 57. Foot injuries 58. Back injuries 59. Traffic 60. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.)	63. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 64. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 65. Wear Langan approved safety shoes.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
	61. High Noise levels 62. Overhead hazards 63. Heat Stress/ Cold Stress 64. Eye Injuries	66. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 67. Wear high visibility clothing & vest / Use cones or signs to designate work area. 68. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 69. Wear hearing protection 70. Wear hard hat / Avoid areas where overhead hazards exist. 71. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 72. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Well Installation**
JSA Number: **JSA019-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT REQUIRED:				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: PID, Tyvek sleeves				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
45.Move equipment to work site	28.Back strain when lifting equipment. 29.Slips/ Trips/ Falls while moving equipment. 30.Traffic (if applicable) 31.Pinched fingers or running over toes during GeoProbe set-up. 32.Overturn drilling rig while transporting to loading dock on flat-bed tow truck	22. Use proper lifting technique (use legs for bending and lifting and not the back)/ Use wheeled transport for heavy equipment / Get assistance when handling loads greater than 50 lbs. / Minimize distance to vehicle 23. Use proper lifting technique (use legs for bending and lifting and not the back) / Use wheeled transport for heavy equipment / Get assistance when handling loads greater than 50 lbs. / Minimize distance to vehicle / Have unobstructed path to vehicle or collection point / Do not lift/walk with boxes that are heavy/difficult to lift 24. Wear high visibility safety vests or clothing / Exercise caution 25. Wear proper PPE (cut-resistant gloves) / Stay alert, be aware of geoprobe rig at all times 26. Drill rig should be parked in center of flat-bed tow truck / Emergency brake shall be used at all times during transport on the flat-bed truck/ All unnecessary personnel should stay away from the flat-bed truck during moving activities
46.Calibration of monitoring equipment	21.Skin or eye contact with calibration chemicals 22.Pinch fingers in monitoring equipment	16. Wear proper PPE (safety glasses/ goggles) 17. Wear proper PPE (leather gloves)
18. Set-up GeoProbe rig	15. Geoprobe rig movement	9. All field personnel should stay clear of the GeoProbe rig while moving / Use a spotter when backing up the GeoProbe
19. Advance GeoProbe rods below ground surface to desired depth	6. Underground utilities 7. High noise levels	9. Clean all subsurface soil borings to a minimum of 5 feet below grade. 10. Wear proper PPE (hearing protection)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
20. Remove and open acetate liner. 5. Remove and open acetate liner (cont'd)	65. Pinched fingers while removing macrocore. 66. Cuts/lacerations when cutting acetate liner open. 67. Exposure to hazardous vapors 68. Skin contacts with contaminated soil	5. Wear proper PPE (nitrile gloves, cut-resistant or leather gloves 6. Wear proper PPE (cut-resistant or leather gloves) 7. Do not place face over acetate liner when opening / Monitor hazardous vapors in air with PID / Upgrade PPE as necessary based on levels contained in the Health and Safety Plan 8. Wear proper PPE (nitrile gloves)
6. Remove excess soil from acetate liner and place in 55-gallon drum (IF NOT PERFORMED BY LANGAN, REMOVE!)	5. Cuts/lacerations from acetate liner 6. Pinched fingers/hand while opening/closing drum. 7. Skin contacts with contaminated soil 8. Soil debris in eyes	5. Wear proper PPE (cut-resistant or leather gloves) 6. Wear proper PPE (cut-resistant or leather gloves) 7. Wear proper PPE (nitrile gloves) 8. Wear proper PPE (safety glasses)
7. Attach hollow-stem augers to the GeoProbe rig; Advance augers and attach. additional augers until desired depth is reached	1. Strain wrist/bruise palm 2. Pinched fingers 3. Back Strain 4. Clothing entanglement 5. Carbon monoxide poisoning 6. Bruise toes/foot 7. High noise levels 8. Skin contacts with contaminated soil	1. Wear proper PPE (cut-resistant or leather gloves) 2. Wear proper PPE (cut-resistant or leather gloves) 3. Use proper lifting techniques. 4. Wear proper work attire(no loose clothing/strings) 5. Properly ventilate work area 6. Wear proper PPE (safety shoes) 7. Wear proper PPE (hearing protection) 8. Wear proper PPE (Tyvek sleeves, nitrile gloves)
8. Install monitoring well	1. Pinched fingers 2. Lacerations/abrasions 3. Back Strain	1. Wear proper PPE (cut-resistant or leather gloves) 2. Wear proper PPE (cut-resistant or leather gloves) 3. Use proper lifting techniques
9. Tremie-grout annulus space above bentonite seal	1. Back strain 2. Pinched fingers	1. Use proper lifting techniques. 2. Wear proper PPE (cut-resistant or leather gloves)
10. Install flush-mount monitoring well pad	1. Splashed concrete. 2. Pinched fingers 3. Cuts/lacerations	1. Wear proper PPE (safety glasses) 2. Wear proper PPE (cut-resistant or leather gloves) 3. Wear proper PPE (cut-resistant or leather gloves)
11. Decontaminate equipment	1. Splashing water/soap 2. Contact with potentially contaminated groundwater/soil through dermal exposure. 3. Electrical shock from broken electric cords	1. Wear proper PPE (safety glasses) 2. Wear proper PPE (safety glasses, dermal protection) 3. Properly plug in pump to generator / Do not allow the pump or generator to contact water / Check for breaks in the cord
12. Transport drums to central staging location (IF NOT PERFORMED BY LANGAN, REMOVE!)	7. Back, arm or shoulder strain from moving drums. 8. Pinch fingers/hand in drum cart when moving drums. 9. Pinch fingers/hand when operating lift-gate on vehicle. 10. Contact with potentially contaminated groundwater when moving improperly sealed drums. 11. Slips when moving drums. 12. Drop drum on feet/toes	73. Use drum cart for moving drums / Use proper lifting techniques / Do not lift heavy loads without assistance. 74. Wear proper PPE (cut-resistant or leather gloves) 75. Wear proper PPE (cut-resistant or leather gloves) 76. Wear proper PPE (nitrile gloves underneath work gloves) 77. Follow good housekeeping procedures / Ensure route to move drum and storage space is free from obstructions. 78. Wear proper PPE (safety shoes) / Work in a safe manner to prevent dropped drum

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
13. All activities 13. All activities (cont'd)	11. Slips/ Trips/ Falls 12. Hand injuries, cuts, or lacerations during manual handling of materials 13. Foot injuries 14. Back injuries 15. Traffic 16. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 17. High Noise levels 18. Overhead hazards 19. Heat Stress/ Cold Stress 20. Eye Injuries	11. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 12. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 13. Wear Langan approved safety shoes. 14. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 15. Wear high visibility clothing & vest / Use cones or signs to designate work area. 16. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 17. Wear hearing protection 18. Wear hard hat / Avoid areas where overhead hazards exist. 19. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 20. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Monitoring Well Development**
JSA Number: **JSA026-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Tyvek Sleeves				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
47.Transport equipment to work area	33.Back Strains 34.Slips/Trips/Falls 35.Traffic 36.Cuts/Abrasions/Contusions from equipment	27. Use proper lifting techniques/ Use wheeled transport/ use buddy system when lifting equipment. 28. Minimize distance from work area/ unobstructed path to collection points and vehicle/ Follow good housekeeping procedures. 29. Wear high-visibility vest or clothing/Exercise caution/ Use traffic cones or signage if needed. 30. Wear proper PPE (leather gloves, long sleeves, Langan approved safety shoes).
48.Measure depth of water	23.Exposure to hazardous substances 24.Pinched fingers	21. Wear proper PPE (Nitrile gloves, Safety glasses/Face shield). 22. Wear proper PPE (cut-resistant gloves).
49.Install Tremie pipe in the monitoring well and connect to water source.	16. Hand injuries during installation (pinched fingers/hands). 17. Back strain from holding Tremie pipe. 18. High pressure water spray.	10. Wear proper PPE (Nitrile gloves/cut-resistant gloves). 11. Use proper lifting techniques/ Use two personnel when lowering pump greater than 80 feet. 12. Ensure all those connections are tight and secure/ Use proper PPE (face shield and safety glasses).
50.Install pump in to well. a. Connect pump to sample tubing. b. Lower pump to desired depth in well. c. Connect sample tubing to flow cell. d. Connect pump to power source	8. Hand injuries during pump installation and sample tubing cutting. 9. Back strain 10. Electric shock 11. Exhaust gases from generator 12. Burns from hot equipment	11. Wear proper PPE when installing pump and cutting sample tubing (Nitrile and cut-resistant gloves)/ Use tubing cutter. 12. Proper lifting techniques/ Two personnel when installing pump at depths greater than 80 feet/ Use buddy when lifting heavy loads (pump, generator)/Use wheeled transport. 13. Ensure equipment is (LO/TO: locked out/tagged out) prior to preforming any electrical connections/ Inspect wires for frays or cuts/Ensure generator is properly grounded prior to starting.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
(generator) e. Turn on power source (generator)		14. Position generator so that exhaust is flowing away from work area. 15. Do not touch exhaust or any hot part of generator/ Allow equipment time to cool down prior to carrying/ Use proper PPE (long sleeves, leather gloves)
51. Develop monitoring well. a. Jet water into well using Tremie pipe. b. Turn pump on and adjust to desired flow rate. c. Surge pump up and down well to remove sediment from screen. d. Containerize all purge water from well.	69. Hand injuries 70. Face injuries 71. Contaminated spray from water	79. Wear proper PPE (cut-resistant gloves and nitrile gloves). 80. Wear proper PPE (face shield and safety glasses)/do not stand over well opening. 81. Wear proper PPE (Face shield and safety goggles)/Tyvek over garments/ Ensure all connections are secure and tight/ Tubing outlet is contained in an overflow container.
52. Drum staging area.	1. Back, Arm, and shoulder strain. 2. Pinch points 3. Cross contamination 4. Slip/Trips/Falls	1. Use proper lifting techniques/ Use drum carts when moving drums/ use buddy system for moving of drums if needed/Move drums shortest distance needed. 2. Keep fingers and feet away from pinch points/ Use proper PPE (cut-resistant gloves, Langan approved safety shoes) 3. Use proper PPE (Nitrile gloves, Tyvek sleeves) 4. Ensure pathway is clear prior to moving equipment/ Mark all hazards/ Use additional person as a spotter if needed.
53. Equipment pack-up	1. Back Strains 2. Slips/Trips/Falls 3. Traffic 4. Cuts/Abrasions/Contusions from equipment.	1. Use proper lifting techniques/ Use wheeled transport/ use buddy system when lifting equipment. 2. Minimize distance from work area/ Unobstructed path to collection points and vehicle/ Follow good housekeeping procedures. 3. Wear high-visibility vest or clothing/Exercise caution/ Use traffic cones or signage if needed. 82. Wear proper PPE (leather gloves, long sleeves, Langan approved safety shoes).
54. All activities	1. Slips/ Trips/ Falls 2. Hand injuries, cuts, or lacerations during manual handling of materials 3. Foot injuries 72. Back injuries 73. Traffic 74. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 75. High Noise levels 76. Overhead hazards 77. Heat Stress/ Cold Stress 78. Eye Injuries	1. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves 3. Wear Langan approved safety shoes 4. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 5. Wear high visibility clothing & vest / Use cones or signs to designate work area 6. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 7. Wear hearing protection 8. Wear hard hat / Avoid areas where overhead hazards exist. 9. Wear proper attire for weather conditions (sunscreen or protective clothing

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 10. Wear safety glasses.
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Groundwater/Product Purging/Sampling with Bailer**
JSA Number: **JSA053**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☒ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☒ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Tyvek sleeves, Dermal Protection, PID, absorbent pads				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
55. Transport equipment to work area	6. Back Strain 7. Slips/ Trips/ Falls 8. Traffic 9. Cuts/abrasions from equipment 10. Contusions from dropped equipment	6. Use proper lifting techniques / Use wheeled transport. 7. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures. 8. Wear proper PPE (high visibility vest or clothing) 9. Wear proper PPE (leather gloves, long sleeves) 10. Wear proper PPE (safety shoes)
56. Remove well cover	25. Scrape knuckles/hand 26. Strain wrist/bruise plan 27. Pinch fingers or hand	6. Wear proper PPE (leather gloves) 7. Using a hammer, tap the end of the wrench to loosen grip of bolts. 8. Wear proper PPE (leather gloves)
57. Remove well cap and lock	19. Well can pops from pressure. 20. Exposure to hazardous substances through inhalation or dermal exposure 21. Scrape knuckles/hand 22. Pinch points 23. Strain write/bruise palm	9. Remove cap slowly to relieve pressure / Do not place face over well when opening / Wear proper PPE (safety glasses, face shield, hand protection) 10. Use direct air monitoring/reading instrument (i.e., PID) / Be familiar with and follow actions prescribed in the HASP / Wear proper PPE (nitrile gloves) 11. Wear proper PPE (leather gloves) 12. Using hammer, tap the end of the wrench to loosen grip
58. Measure head-space vapor levels	2. Exposure to hazardous substances through inhalation	2. Do not place face over well when collecting measurement
59. Set-up plastic sheeting/absorbent pads	2. Lacerations when cutting plastic sheeting/absorbent pads.	2. Use scissors to cut plastic sheeting/absorbent pads / Cut motions should always be away from body and body parts

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
for work site around the well		
60. Lower Bailer sleeve into well	7. Repetitive motion injury (pulled arm/back muscles) 8. Dehydration	7. Take breaks while lowering bailer into well/ Use a mechanical device to lower bailer into well/ Rotate employees (take turns conducting the manual labor portion) 8. Take breaks and drink water.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
7. Purge/Sample water/product collection	1. Contact with potentially contaminated groundwater or product through dermal exposure 2. Contact with and burns from acid used for sample preservation 9. Tripping potential on sampling lanyard 10. Lacerations from broken sample bottles 11. Back strain when transporting coolers full of collected samples. 12. Slips/ Trips/ Falls	1. Wear proper PPE (safety glasses, nitrile gloves, safety shield, Tyvek) 2. Ensure sample bottle lids are secure before use and after sample collection 3. Organize lanyard to keep out of the way as much as possible / Mark potential tripping hazards with caution tape or safety cones 9. Do not over-tighten bottle caps / Handle bottles safely to prevent breakage / Wrap glass bottles in bubble wrap, if possible 10. Use proper lifting techniques / Use wheeled transport / Seek assistance if coolers weight exceeds 50lbs. / Minimize distance to vehicle. 11. Have unobstructed path to vehicle or collection point / Follow good housekeeping procedures / Do not lift/walk with coolers that are too heavy/difficult to lift
8. Retrieval of bailer	9. Repetitive motion injury (pulled arm/back muscles) 10. Dehydration	9. Take breaks while retrieving bailer out of the well/ Use a mechanical device to raise bailer out of well/ Rotate employees (take turns conducting the manual labor portion) 10. Take breaks and drink water.
9. Pack-up equipment	2. Back strain when removing or lifting heavy equipment	2. Use proper lifting technique / Use wheeled transport for heavy equipment
10. Replace well cap and lock	3. Scrape fingers/hand 4. Strain wrist/bruise palm	3. Wear proper PPE (leather gloves) 4. Using hammer, tap the end of the well cap to tighten grip
11. Replace well cover	4. Scrape knuckles/hand 5. Strain write/bruise palm. 6. Pinch fingers or hand	4. Wear proper PPE (leather gloves) 5. Using hammer, tap the end of the wrench to tighten the grip of the bolts. 6. Wear proper PPE (leather gloves)
12. Place used PPE in designated disposal drum	3. Pressure build-up inside drum 4. Pinch hazard	3. Remove cap from bung hole in drum to relieve pressure. 4. Wear proper PPE (leather gloves) 5. Product drums may require additional spill protection/electrical grounding, check local regulations
13. Decontaminate equipment	4. Splashing water/soap from decontamination 5. Contact with potentially contaminated groundwater through dermal exposure.	4. Wear proper PPE (safety glasses) 5. Wear proper PPE (safety glasses, dermal protection)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
14. All activities	79. Slips/ Trips/ Falls 80. Hand injuries, cuts, or lacerations during manual handling of materials 81. Foot injuries 82. Back injuries 83. Traffic 84. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 85. High Noise levels 86. Overhead hazards 87. Heat Stress/ Cold Stress 88. Eye Injuries	83. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 84. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 85. Wear Langan approved safety shoes. 86. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 87. Wear high visibility clothing & vest / Use cones or signs to designate work area. 88. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 89. Wear hearing protection 90. Wear hard hat / Avoid areas where overhead hazards exist. 91. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 92. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Sub-slab soil gas temporary point installation and sampling**
JSA Number: **JSA037-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

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PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☒ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Tyvek Sleeves				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
61. Transport equipment to work site	37. Back injuries 38. Slips/Trips/Falls 39. Traffic 40. Hand injuries	31. Use proper lifting techniques/ Use wheeled transport/ Get assistance when need with moving equipment/ Minimize distance from vehicle 32. Minimize distance from vehicle/ Have unobstructed pathway to vehicle and collection points/ Mark tripping hazards with spray paint, cones, or caution tape/ Observe good housekeeping procedures. 33. Wear proper PPE (High Visibility vest and clothing)/ Exercise caution (stay alert-stay alive) 34. Wear proper PPE (leather gloves)/ Keep finger and hands clear of pinch points.
62.Mark area for drilling	28.Slips/Trips/Falls	23. Minimize distance from vehicle/ Have unobstructed pathway to vehicle and collection points/ Mark tripping hazards with spray paint, cones, or caution tape/ Observe good housekeeping procedures
63.Drill sampling points with hammer drill	24. Eye injuries 25. Dust exposure 26. Hand injuries 27. Catch items (clothing) 28. Electric shock 29. Chemical atmosphere hazard (vapor) 30. Slips/Trips/Falls	13. Wear proper PPE (safety glasses) 14. Wear proper PPE (dust mask) 15. Wear proper PPE (leather gloves)/ Keep hands and fingers out of pinch points/ Avoid drill catching on ground and twisting wrist or hand/ Release drill grip if drill becomes caught/ Ensure drill is unplugged prior to inserting bit. 16. Tie up or tuck-in all loose clothing/ Maintain distance from drill. 17. Inspect power cable for cuts or nicks before use/ Use GFCI outlet on power cord/ Do not use in wet conditions. 18. Monitor air, vapors with Photo-ionization detector (PID)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		19. Minimize distance from vehicle/ Have unobstructed pathway to vehicle and collection points/ Mark tripping hazards with spray paint, cones, or caution tape/ Observe good housekeeping procedures
64.Measure vapor content and depth to bottom of hole	1. Chemical atmosphere hazard (vapors)	1. Monitor air, vapors with Photo-ionization detector (PID)/ Keep face away from opening of hole while collecting measurements
65.Set-up of shroud and sampling canister system	1. Hand injuries 2. Chemical atmosphere hazard (vapors) 3. Slips/Trips/Falls	1. Wear proper PPE (leather gloves, nitrile gloves)/ Keep fingers away from pinch points when installing pump/ Do not use open blades, use tubing cutter 2. Monitor air, vapors with Photo-ionization detector (PID)/ Keep face away from opening of hole while collecting measurements 3. Minimize distance from vehicle/ Have unobstructed pathway to vehicle and collection points/ Mark tripping hazards with spray paint, cones, or caution tape/ Observe good housekeeping procedures
66.Purge soil gas	1. Chemical atmosphere hazard (vapors)	1. Monitor air, vapors with Photo-ionization detector (PID)/ Keep face away from exhaust port of pump
67.Sample collection (opening and closing valves)	1. Hand injuries	1. Wear proper PPE (leather gloves)/ Keep fingers away from pinch points
68.Sealing sampling holes	1. Back injuries 2. Concrete dust 3. Eye injuries	1. Use proper lifting techniques for lifting of cement bags 2. Wear proper PPE (dust mask) 3. Wear proper PPE (safety glasses)
69. All activities	89. Slips/ Trips/ Falls 90. Hand injuries, cuts, or lacerations during manual handling of materials 91. Foot injuries 92. Back injuries 93. Traffic 94. Wildlife: Stray animals, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 95. High Noise levels 96. Overhead hazards 97. Heat or cold injuries 98. Eye Injuries	93. Be aware of potential trip hazards/ Follow good housekeeping procedures/ Mark significant hazards. 94. Inspect for jagged/sharp edges, and rough or slippery surfaces/ Keep fingers away from pinch points/ Wipe off greasy, wet, slippery, or dirty objects before handling/ Wear leather/ cut-resistant gloves. Wear proper PPE (Langan approved safety shoes) 95. Use proper lifting techniques/ Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift/ Obtain assistance when possible. 96. Wear high visibility clothing & vest/ Use cones or signs to designate work area. 97. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray animals/ Carry and use animal repellant when needed/ Use bug spray when needed. 98. Wear hearing protection 99. Wear hard hat/ Avoid areas where overhead hazards exist. 100. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather)/ Drink plenty of fluids to avoid dehydration/ Takes breaks as necessary to avoid heat/cold stress. 101. Wear safety glasses

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: Indoor Air Sampling
JSA Number: JSA007-01

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – *Stop,* what has changed?
T – *Think* about the task
E – *Evaluate* potential hazards
P – *Plan* safe approach
S - *Start* task / *Stop* & regroup

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: PID, Respiratory Protection (if necessary)				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
70. Building walkthrough and background contaminant removal	41. Slips / Trips/ Falls 42. Exposure to substances/vapors during removal	6. Be aware of potential trip hazards / Follow good housekeeping procedures / Mark significant below-grade hazards (i.e., holes, trenches) with safety cones or spray paint. 7. Monitor indoor air concentrations with a PID / Wear proper PPE (nitrile gloves) / Wear proper respiratory protection if necessary
71. Transport equipment to work area	11. Back Strain 12. Slips/ Trips/ Falls 13. Traffic 14. Cuts/abrasions from equipment 15. Contusions from dropped equipment	11. Use proper lifting techniques / Use wheeled transport. 12. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures. 13. Wear proper PPE (high visibility vest or clothing) 14. Wear proper PPE (leather gloves, long sleeves) 15. Wear proper PPE (safety shoes)
72. Mark out areas for indoor air sampling	29. Slips/ Trips/ Falls	9. Be aware of potential trip hazards / Follow good housekeeping procedures / Mark significant below-grade hazards (i.e., holes, trenches) with safety cones or spray paint
73. Set-up canisters and begin indoor air sampling	31. Dropping crates or canisters 32. Pinch hazard	13. Exercise caution when moving crates and canisters / Use proper housekeeping of materials during sample events / Do not carry too many items at one time / Perform several trips, if necessary 14. Wear proper PPE (leather gloves)
74. Sample collection	3. Dropping crates or canisters 4. Pinched fingers from opening valves	3. Exercise caution when moving crates and canisters / Use proper housekeeping of materials during sample events / Do not carry too many items at one time / Perform several trips, if necessary 4. Wear proper PPE (leather gloves) / Keep fingers away from pinch points
75. Pack up equipment	3. Back strain	3. Use proper lifting techniques / Use wheeled transport.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
	4. Slips/ Trips/ Falls 5. Traffic	4. Be aware of potential trip hazards / Follow good housekeeping procedures / Minimize distance to vehicle. 5. Wear proper PPE (safety vest)
76. All activities	99. Slips/ Trips/ Falls 100. Hand injuries, cuts, or lacerations during manual handling of materials 101. Foot injuries 102. Back injuries 103. Traffic 104. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 105. High Noise levels 106. Overhead hazards 107. Heat Stress/ Cold Stress 108. Eye Injuries	102. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 103. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 104. Wear Langan approved safety shoes. 105. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 106. Wear high visibility clothing & vest / Use cones or signs to designate work area. 107. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 108. Wear hearing protection 109. Wear hard hat / Avoid areas where overhead hazards exist. 110. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 111. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Hammer Drill**
JSA Number: **JSA049**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
77.Transport equipment to work area	43.Back Strain 44.Slips/ Trips/ Falls 45.Traffic 46.Cuts/abrasions from equipment 47.Contusions from dropped equipment	8. Use proper lifting techniques / Use wheeled transport. 9. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures. 10. Wear proper PPE (high visibility vest or clothing) 11. Wear proper PPE (leather gloves, long sleeves) 12. Wear proper PPE (safety shoes)
78.Electrical Connection	30.Inspect electrical cord to drill. 31.Inspect hammer drill. 32.Inspect extension cord. 33.Test GFCI	10. Check the plug, ensure all connections are in place, check cord for frayed sections. If plug or cord are worn, do not use equipment until repaired. 11. Inspect chuck for proper grasping and holding of bit, check that plastic housing is not cracked or missing pieces. Do not use if chuck does not work properly or housing is compromised. 12. Inspect extension cord, if worn or stripped pull from service and replace 13. Test GFCI, replace if GFCI fails
79.Drill Bit	1. Inspect drill bit	1. Replace if worn. 2. Wear proper PPE (leather gloves) when installing and removing drill bit. 3. Ensure equipment is unplugged from electrical power when removing and installing drill bit.
80.Use of Hammer Drill	1. Hazards associated with using hammer drill, flying objects, heavy equipment, ground level hazards and dust. 2. Slips/ Trips/ Falls 3. Hazards associated drilling into concrete slab	1. Maintain a safe distance from other site operations / Wear proper PPE (hard hat, safety glasses, safety shoes, safety vest, ear protection and leather gloves) 2. Be aware of potential trip hazards / Follow good housekeeping procedures / Mark extension cord pathway with safety cones. 3. Do not push hammer drill during use.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
81. All activities

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Test Pits**
JSA Number: **JSA016-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
82.Transport equipment to work area	48.Back Strain 49.Slips/ Trips/ Falls 50.Traffic 51.Cuts/abrasions from equipment 52.Contusions from dropped equipment	13. Use proper lifting techniques / Use wheeled transport 14. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures 15. Wear proper PPE (high visibility vest or clothing) 16. Wear proper PPE (leather gloves, long sleeves) 17. Wear proper PPE (safety shoes)
83.Digging Test Pit	34.Back Strain 35.Unstable walls of excavation	14. Observe proper digging technique. Ensure spoil pile and equipment are at least 2 feet from edge of excavation. 15. Excavate test pit in a stepped manor.
84. All activities	119.Slips/ Trips/ Falls 120.Hand injuries, cuts, or lacerations during manual handling of materials 121.Foot injuries 122.Back injuries 123.Traffic 124.Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 125.High Noise levels 126.Overhead hazards 127.Heat Stress/ Cold Stress 128.Eye Injuries	122.Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 123.Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 124.Wear Langan approved safety shoes 125.Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 126.Wear high visibility clothing & vest / Use cones or signs to designate work area 127. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
3. All activities (cont'd)		128. Wear hearing protection 129. Wear hard hat / Avoid areas where overhead hazards exist. 130. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 131. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

ATTACHMENT H

TAILGATE SAFETY BRIEFING FORM

LANGAN TAILGATE SAFETY BRIEFING

Date:_____ Time: _____

Leader:_____ Location:_____

Work Task:

_____

_____

SAFETY TOPICS (***provide some detail of discussion points***)

Chemical Exposure Hazards and Control:_____

_____

Physical Hazards and Control: _____

Air Monitoring: _____

PPE: _____

_____

Communications:_____

Safe Work Practices: _____

_____

Emergency Response: _____

Hospital/Medical Center Location: _____

Phone Nos.: _____

Other: _____

FOR FOLLOW-UP (the issues, responsibilities, due dates, etc.**)**

_____

_____

_____

ATTENDEES

PRINT NAME	COMPANY	SIGNATURE

E-7

Bally's Bronx
Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East Bronx, New York

Prepared by: Ecology and Environmental Engineering, P.C.

LANGAN

Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East Bronx, New York

May 31, 2012
Revised: August 31, 2012
October 15, 2013

Prepared for:

New York City Department of Parks & Recreation
The Arsenal
830 Fifth Avenue
New York, NY 10065-7001

Prepared by:

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List of Abbreviations

AES	American Environmental Solutions, Inc.
AGC	Annual Guideline Concentrations
AKRF	Allee, King, Rosen & Fleming, Inc.
bgs	below ground surface
CAA	Clean Air Act
C&D	construction and demolition
CEQR	City Environmental Quality Review
CY	Cubic Yard
DPR	(New York City) Department of Parks and Recreation
DSNY	New York City Department of Sanitation
EEEPC	Ecology and Environment Engineering, P.C.
EPA	(United States) Environmental Protection Agency
FPPCCCP	Ferry Point (Park East) Post-Construction Custodial Care Plan
FPP	Ferry Point Partners, LLC
GHG	greenhouse gas
HAP	hazardous air pollutant
IEM	Independent Environmental Monitor
LEL	lower explosive limit
LFG	landfill gas
LFGMP	Landfill Gas Management Plan
m^3/Mg	cubic meters per megagram
Mg/yr	megagrams per year
M&M	monitoring and maintenance
MSW	municipal solid waste
NMOC	non-methane organic compound
NTU	nephelometric turbidty unit
NYCRR	New York Codes, Rules, and Regulations

List of Abbreviations and Acronyms (cont.)

NYCDEP	New York City Department of Environmental Protection
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OM&M	operations, maintenance and monitoring
PDM	processed dredge material
ppm	parts per million
psi	pounds per square inch
ROI	radius of influence
SAPA	State Administrative Procedures Act
SEQRA	State Environmental Quality Review Act
SF	square foot
SGC	short-term guideline concentration
SOW	scope of work
SSDS	sub-slab depressurization system
TAGM	Technical and Administrative Guidance Memorandum
TRC	TRC Engineers
ULURP	Uniform Land Use Review Procedure
VOC	volatile organic compound
Walsh	Walsh Environmental Scientists and Engineers, LLC

1 Purpose and Scope

1.1 Document Overview

New York City Department of Parks and Recreation (DPR) is submitting this Supplemental Engineering Report ("the Report") in support of its updated application package for the Ferry Point Park East 6NYCRR Part 360 Solid Waste Management Permit ("the 2005 Permit"), No. 2-6006-00014/00013.

This Report presents the studies, modeling, investigations, and design work that were performed to resolve outstanding comments that have been received by DPR since the April 8, 2009, Notice of Incomplete Application and the November 25, 2009, permit application submittal to the New York State Department of Environmental Conservation (NYSDEC).

This Report and the supporting documentation provide sufficient data and analysis to demonstrate how outstanding comments and requests have been addressed and complete the permit application.

1.2 Document Organization

This report is organized as follows:

- Section 2 – Presents the history and scope of the project, and past permitting benchmark dates,
- Section 3 – Provides construction status and a permit compliance summary,
- Section 4 – Discusses each previously unresolved NYSDEC issue,
- Appendices – Provide supporting documentation for the additional studies, modeling, and investigations for the Site that were completed at the request of NYSDEC.

2 Introduction

2.1 Project History

Ferry Point Park East in the Bronx (the "Site") is a former landfill that is bounded by the Bronx-Whitestone Bridge and Hutchinson River Parkway to the west, Balcom, Miles, and Emerson Avenues to the east, Schley Avenue and St. Raymond's Cemetery to the north, and the East River to the south.

In the late 1990s, the New York City Department of Parks & Recreation (DPR) entered into a license agreement with Ferry Point Partners, LLC (FPP) to develop, construct, and operate a new public recreation facility (the "Project") at the Site. The new facility would include a golf course, a Community Park, a waterfront park, and related facilities. At that time all required reviews for the Project were completed under the City Environmental Quality Review (CEQR), State Environmental Quality Review Act (SEQRA), and the City's Uniform Land Use Review Procedure (ULURP).

On July 17, 2000, NYSDEC issued a Part 360 Solid Waste Management Permit (No. 2-6006-00014-000110) (the "2000 Permit") jointly to FPP and DPR (collectively, the "Historic Permittee") for a non-specific "facility" under Part 360-1.9(b) at the Site. The 2000 Permit allowed the Historic Permittee to import and place a total of 1,000,000 cubic yards (CY) of fill necessary to construct the golf course on the Site. In February 2002 and November 2005, the Part 360 Permit was modified to allow additional fill volume and changes in design features. On November 18, 2005, NYSDEC issued the modified Part 360 Solid Waste Management Permit (No. 2-6006-00014/00013) to place a total of 2,543,729 CY of in-place fill on the Site. This action was followed by a December 27, 2005, revision (No. 2-6006-00014/00013) that amended the total in-place fill volume to 2,370,000 CY (the "2005 Permit").

In 2007, DPR terminated the license agreement with FPP and took over Site development responsibilities, including redevelopment of the Community Park and construction of the waterfront park and golf course portions of the Site.

2.2 Project Scope

Consistent with the 2005 Permit, the project scope includes the construction of three major elements (a golf course, Community Park, and waterfront park) over the 222-acre Site (see Figure 2-1) as follows:

- An 18-hole golf course with practice facility, driving range, clubhouse, maintenance facility, irrigation lake, stormwater retention ponds, and a parking lot (192.5 acres);
- A passive recreation waterfront park with walkways and a comfort station (19.5 acres); and
- A Community Park with baseball fields, basketball court, walkways, comfort station, and landscaped stormwater retention area (10 acres).

2.3 Permitting Benchmarks

The following bullets chronicle significant permit-related correspondence and actions since the 2005 Permit was issued:

- **July 25, 2008:** A permit renewal application package to the 2005 Permit was submitted by DPR. This submittal requested a modification of the 2005 Permit to allow the use of dredge and processed dredge material (PDM) as fill and the barge delivery of such fill material to the Site.
- **October 24, 2008:** NYSDEC issued a Notice of Incomplete Application and comments to the July 25, 2008 submittal.
- **December 2, 2008:** NYSDEC issued a letter to advise DPR that the 2005 Part 360 Permit (with the corresponding November 30, 2008, expiration date) remains in full force and effect until NYSDEC approves the permit renewal application, as per Section 401(2) of the State Administrative Procedure Act (SAPA). See Appendix A for a copy of the SAPA letter.
- **December 26, 2008:** A response to NYSDEC's comments of October 24, 2008 was submitted by DPR with a supplemental permit application package to the 2005 Permit.
- **April 8, 2009:** NYSDEC issued comments to the December 26, 2008, permit application submittal.
- **April 9, 2009:** DPR withdrew its request for a permit modification to allow the use of PDM as fill.
- **November 25, 2009:** A response to NYSDEC's comments of April 8, 2009, was submitted by DPR with a second supplemental permit application package to the 2005 Permit. This submittal withdrew the request to allow the use of dredge material and PDM as fill and the barge delivery of such fill material

to the Site. This submittal also proposed a design modification for a Site-wide active landfill gas control system. The 2005 Permit included passive venting systems for the Site, with active systems proposed only in enclosed structures.

- **June 25, 2010:** NYSDEC issued a Notice of Incomplete Application and comments on the November 25, 2009, permit application submittal.

- **August 6, 2010:** NYSDEC issued additional comments on the November 25, 2009, permit application submittal.

- **September 29, 2010:** A response to NYSDEC's comments of June 25 and August 6, 2010, was submitted by DPR with a third supplemental permit application package for the 2005 Permit. This submittal withdrew the proposed design modification of a Site-wide active landfill gas control system and proposed a system consistent with the 2005 Permit.

- **October 7, 2010:** A supplemental response to NYSDEC's comments of June 25 and August 6, 2010, was submitted by DPR to accompany the September 29, 2010, permit renewal application submittal.

SOURCE: Ecology and Environment, Inc. 2012

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Figure 2-1 Ferry Point Park Site Layout

3 Project Status

3.1 Construction Status

Construction activities are proceeding with the following scheduled milestones.

Community Park

- **As of December 31, 2011:** Stormwater retention pond, passive landfill gas (LFG) vents, and recreation facilities were complete.
- **December 31, 2014:** Comfort station completion is anticipated.

Golf Course

- **As of May 17, 2012:** Construction of the golf course is 73% complete.
- **December 31, 2014:** Golf course completion is anticipated, and opens with a temporary clubhouse.
- **December 31, 2017:** Completion of the permanent clubhouse is anticipated.

Waterfront Park

- **November 30, 2012:** Final design completion is anticipated.
- **December 31, 2015:** Construction completion is anticipated.

3.2 Permit Compliance Monitoring and Reporting since November 18, 2005

In accordance with the 2005 Permit and as required under Special Condition 25, an Independent Environmental Monitor (IEM) has been retained by the Permittee (DPR) to provide environmental oversight of all activities authorized by the permit. The 2005 Permit states that the IEM may be an individual or engineering firm, and must be or provide a New York State-licensed professional engineer. The firm of Woodard & Curran is currently performing the IEM responsibilities for the project.

The IEM monitoring is conducted daily and reported to NYSDEC on a bi-weekly basis. These reports are available at the DPR Bronx Borough Headquarters (Ranaqua) document repository and are part of the public record. The address of the repository is 1 Bronx River Parkway, Bronx, NY 10462; telephone: (718) 430-1800. As these reports continue to be issued, DPR responds to and resolves issues as they develop. An email received from NYSDEC on Thursday, May 24, 2012 (see Appendix B), verified that there is "*no outstanding enforcement action*" for the Site.

4 Supplemental Engineering Work

4.1 Fill Volumes

DPR is conforming to the fill volume conditions of the 2005 Permit. Under Special Condition No. 9, a total of 2,370,000 CY of in-place fill is allowed to be imported to the Site by truck: 2,120,000 CY of shaping fill material is being imported and placed on-site for the base layer, and approximately, 250,000 CY of cover fill material is being imported to be placed on top of the base layer. The imported fill materials are being used to attain the final design grades and contours of the golf course.

In accordance with Special Condition No. 10 of the 2005 Permit, imported fill brought to the Site is tracked according to "in-truck" volumes and reported by the Site's IEM to NYSDEC. A compaction factor is used to calculate the difference between the volume of in-truck fill and the volume of compacted in-place fill that achieves the design grades and contours of the Site. A compaction factor of 41.7% is being used in the IEM reports to calculate the in-place fill volume.

As of April 20, 2012, the IEM reported that a total of 1,525,436 CY of in-place fill volume has been reported at the Site since October 18, 2002. This volume includes 1,450,858 CY of in-place shaping material and 74,578 CY of in-place cover material.

During 2010, fill material from one particular source was brought on-site and placed in seven different stockpiles. The material was believed to be in conformance with permit conditions. However, it was found that the material did not meet the requirements of 2005 Permit Special Conditions 1, 9, and 16, during NYSDEC and IEM inspections. On January 10, 2011, DPR signed an Administrative Order on Consent (Consent Order), Case No. R2-20100521-172, related to this fill material. In accordance with the Consent Order, NYSDEC and DPR "*agreed … the material specified in this Order as shaping material on this Site, provided that it is covered by asphalt*." The IEM reported that 64,230 CY of in-truck volume was designated as shaping material under this Order. This fill material was covered by asphalt in 2012.

4.2 Fill Material Chemical Criteria

In light of evolving soil criteria and standards for public use, NYSDEC has provided comments and other clarifications to DPR with respect to the chemical parameters for each soil layer. DPR has complied with the 2005 Permit require-

ments and the additional clarifications provided by NYSDEC, which has been verified by the IEM.

This section reviews DPR's compliance with the 2005 Permit conditions and NYSDEC clarifications. In addition, it provides responses to NYSDEC comments related to imported fill material.

4.2.1 Fill Material Characterization

As required under the 2005 Permit, all fill material imported to the Site is analyzed for the chemical contaminants identified in Special Conditions 15(a) through 15(d). The additional criteria set forth in NYSDEC correspondence since the 2005 Permit, described below must also be met. Only those soils that satisfy the requirements of these criteria are allowed to be used on the Site.

4.2.1.1 Shaping Layer Chemical Criteria

Fill material imported to the Site and used for the shaping layer is analyzed for the following parameters, per Special Condition 15(c) of the 2005 Permit:

"The shaping layer must meet the following chemical limits:

i. *Total carcinogenic SVOC levels must be less than 3ppm if any one of the carcinogenic SVOCs exceed Technical and Administrative Guidance Memorandum (TAGM) 4046. The following are the list of carcinogenic SVOCs that are subject to this 3ppm limit: Benzo(a)pyrene, Dibenzo(a,h) anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Indeno(1,2,3-cd)pyrene, Benzo(k)fluoranthene, and Chrysene.*
ii. *Total SVOCs must be less than 500ppm*
iii. *Metals*
    - *Arsenic less than 28ppm;*
    - *Barium less than 2,000ppm;*
    - *Cadmium less than 20ppm;*
    - *Chromium less than 1,000ppm;*
    - *Copper less than 1,000ppm;*
    - *Lead less than 400ppm;*
    - *Mercury less than 0.57ppm;*
    - *Selenium less than 11ppm;*
    - *Silver less than 100ppm*
iv. *Asbestos for all layers must be 0.5% or less*
v. *Total sulfur for all layers must be 0.5% or less*
vi. *Total PCBs less than 10ppm*
vii. *Total Pesticides less than 10ppm*
viii. *VOCs (all individual analytes less than TAGM 4046)"*

In a letter dated October 25, 2006 (see Appendix C.1), NYSDEC provided a clarification of Special Condition 15(c)(i) adding that a carcinogenic SVOC limit of 10 ppm or lower is allowable from individual fill material sources, provided that a weighted average of equal or less than 3 ppm is achieved by the end of the permit.

A formula for the weighted average was included in the correspondence for use by the IEM.

4.2.1.2 Cover Layer Chemical Criteria

Fill material imported to the Site and used for the cover layer is subject to the following requirements, per Special Condition 15(b) of the 2005 Permit:

"In order for topsoil material to be used on Site for the cover layer, it must be sampled prior to acceptance and after the importation of each additional 2,000 cubic yards (in truck volumes). Each soil sample is to be analyzed for the entire analyte list in the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046, total volatile organic compounds (VOCs), total semi-volatile organic compounds (SVOCs), pesticides and herbicides, polychlorinated biphenyls (PCBs), and metals (including Resource Conservation and Recovery Act (RCRA) metals)."

As required by the 2005 Permit, the cover layer must meet the following chemical limits:

- TAGM 4046 Table 1 – Volatile Organic Compounds (VOCs)
- TAGM 4046 Table 2 – Semi-Volatile Organic Compounds (SVOCs)
- TAGM 4046 Table 3 – Pesticides/Herbicides and Polychlorinated Biphenyls (PCBs)
- TAGM 4046 Table 4 – Metals
- Total Asbestos 0.5% or less
- Total Sulfur 0.5% or less

The following additional criteria were directed in NYSDEC correspondence since the 2005 Permit. DPR has been following NYSDEC's directives since receipt of each one.

- **April 30, 2009** – Directs DPR not to accept or place on the Site any cover layer materials with arsenic concentrations greater than 16 ppm or lead concentrations greater than 400 ppm.
- **July 28, 2009** – Provides a table to DPR listing modified heavy metal chemical limits for the cover layer at the Site.
- **September 25, 2009** - Revises and clarifies the chromium chemical limits for the cover layer previously presented in the July 28, 2009, letter.

A complete list of the 2005 Permit criteria is provided along with the additional criteria correspondence in Appendix C.2.

4.2.1.3 Demarcation Layer Requirements

Special Condition 15(d) of the 2005 Permit requires the following:

"The final placement (including top soil), location, thickness, and detailed chemical limits of the final cover layers on the Site, including the community park and waterfront park, are subject to the specifications, directions and requirements determined by the NYS Department of Health (NYSDOH) to be applicable. It is the responsibility of the Permittees to obtain a written determination from NYSDOH. The Permittees must provide the Department with a copy of NYSDOH's determination. No cover layer material may be placed on the Site, until the Department acknowledges receipt of NYSDOH's determination."

As required by Special Condition 15(d), DPR obtained such written determination from NYSDOH in a letter dated, August 2, 2006 (see Appendix C.3).

In accordance with this communication, two different recreational classifications, active and passive, were proposed by DPR for incorporation into the overall design compliance objectives for the Site. This letter also included that a *"demarcation barrier be used to divide the final cover fill from the existing landfill capping material."* The demarcation barrier (layer) at Ferry Point Park East provides a visual warning that will be easily recognizable during future excavation work beneath the cover layer. (Refer to Section 4.2.1.4 for further discussion of the demarcation layer.)

In a letter dated July 9, 2009 (see Appendix C.3), DPR requested a further review of the heavy metal chemical criteria for the cover layer at Ferry Point Park East. A response received from NYSDEC on July 28, 2009, provided additional clarification regarding what are considered active and passive recreational areas. As per this letter:

Active Recreation – *"…all other areas that are not covered with a building or other impermeable cover system… are deemed active recreational areas."*

In compliance with this active recreational determination, DPR installed 2 feet of cover material and a demarcation layer throughout the Community Park.

Passive Recreation – *"…the golf course is deemed a "passive recreational area" and is required to have a one foot thick cover layer over a demarcation layer."*

Following this directive, DPR requested clarification from NYSDEC regarding the demarcation layer requirement for the extent of the golf course. The request for clarification was based on the need for further specificity regarding the use of a demarcation layer on the golf course.

In response, NYSDEC and NYSDOH reviewed a summary of the analytical data for all the shaping material imported to the Site to date. Upon review of the data set, confirmatory analytical sampling of the in-place shaping material was requested by NYSDEC and NYSDOH. DPR conducted test-pit sampling and analysis under an approved work plan and submitted the data to NYSDEC on February 16, 2011.

In their letter dated March 9, 2011, NYSDEC stated that "*NYSDOH reviewed the shaping layer test pit data and determined that it confirmed existing shaping layer data.*" NYSDEC and NYSDOH agreed that a demarcation layer would not be required at areas of the golf course having a fill thickness of 5 or more feet of combined shaping and cover layer materials. Communications related to this determination are provided in Appendix C.3.

4.2.1.4 Demarcation Layer Plan

At the Ferry Point East Site, "demarcation layer" means a brightly colored, permeable plastic material placed beneath the Site's final cover layer that is easily recognizable during an excavation. The request was made for the protection of Site workers during any future excavation work beneath the cover layer.

The demarcation layer plan was based on a comparison of final design grades and the top of waste elevations extrapolated from soil boring data. Appendix C.4 provides the Demarcation Layer Plan for the Site. Field verification that demarcation requirements are being met is performed continuously and routinely reported by the IEM to confirm permit compliance.

4.2.2 Dioxin and Furan Analytical Methods

In a letter dated May 26, 2011 (see Appendix C.5), DPR requested confirmation that the use of United States Environmental Protection Agency (EPA) Analytical Method 625/8270 is an acceptable alternative method for the analysis of dioxin and furan constituents. On April 12, 2011, NYSDEC provided verbal confirmation to DPR that this method may be used. Accordingly, EPA Analytical Method 625/8270 is now being used where appropriate for the analysis of dioxin and furan constituents on sources of incoming fill material.

4.3 Final Cover Material Physical Characteristics

In accordance with the 2005 Permit, and as written in the June 30, 2005, Engineering Report (TRC 2005), *"The upper portion of the cover layer will consist of topsoil and/or sand capping material in accordance with the Nicklaus Design Technical Specifications (see 2005 Fill Report) to support the growth of the golf course turf and the grassed areas of the adjacent parks*."

Special Condition 16 states that "*the major components (greens, contours, heights, and topsoil) shall meet the Nicklaus Design Technical Specification, as noted in … the 2005 Engineering Report.*

The golf course construction specifications are consistent with these regulatory requirements.

4.3.1 Site-wide Water Balance Model

In their August 6, 2010, letter of additional comments to the November 25, 2009, permit application submittal, NYSDEC requested DPR *"demonstrate that the soil to be used at the site as final cover material — not necessarily as the uppermost planting material — will have a sufficiently low coefficient of permeability and percentage of organic material to minimize the infiltration of water into the lower layers of material to the greatest extent practicable."*

In response to this request, DPR performed a site-wide water balance to predict post-construction infiltration rates. The EPA's Hydrologic Evaluation of Landfill Performance (HELP) computer model was used for this purpose.

As requested by NYSDEC, DPR used a modeling scenario that compared a typical one-foot thick soil landfill cover with the proposed Site cover material as designed.

Model results were presented to NYSDEC in a May 13, 2011, Memorandum (see Appendix D.1). The water balance accounted for impermeable areas of the Site, irrigation of the golf course, drainage system stormwater capture, and the lining of on-site ponds (for a specific discussion of Site ponds, see Section 4.3.1.2). Using a cover soil permeability of 14 inches per hour, the model results indicated that post-construction conditions would result in a reduction in the infiltration rate over the entire Site by approximately 9,700 gallons per day. This estimate effectively showed there will be a lower volume of water infiltrating through the surface of the Site following completion of construction.

A subsequent water balance memorandum was submitted by DPR to NYSDEC on August 10, 2011 (see Appendix D.2). These water balance results indicated that a higher cover soil permeability of 30 inches per hour would also result in a lower volume of water infiltrating through the surface of the Site following completion of construction. Prior to approving this subsequent request to use a cover soil permeability of 30 inches per hour, NYSDEC asked that DPR review and verify the adequacy of the Site's drainage capacity. The purpose of this review was to determine whether the Site's drainage system as designed would be adequate if lined ponds and a cover soil permeability of 30 inches per hour were incorporated into the Site design. A description of the pond liners and drainage capacity review are provided in Sections 4.3.1.2 and 4.3.1.3.

Based on the model results and the drainage capacity review discussed in Section 4.3.1.3, NYSDEC approved a maximum permeability of 30 inches per hour for cover material used at the Site. As cover material is imported to the Site, it is sampled and tested to confirm it meets the water balance (permeability) requirements approved by NYSDEC. The results of the permeability testing are provided in bi-weekly IEM reports.

In a letter dated January 26, 2012 (see Appendix D.3), NYSDEC clarified that the average percolation rate from all samples collected within one cover material stockpile can be used as the representative percolation rate of that stockpile. The average percolation rate *"is justified because the loading, unloading, transporting, stockpiling, and spreading of the cover material will provide a homogenous mixture of the sand"* (material) from the stockpile. *"…the sand will be tested every 2,000 CY per the permit requirements moving forward."*

4.3.1.1 Pond Liner Designs

A single irrigation pond has already been constructed at the Site. The purpose of this pond is to collect and store stormwater runoff and reuse it later for irrigation and maintenance of the golf course vegetative cover. This pond is fully lined to maximize the retention of irrigation water. The irrigation pond design documents were included in the November 25, 2009, permit application package.

In addition, there are five smaller water quality ponds designed to provide active stormwater retention and limit the off-site migration of sediment. The geometry and grading (engineering design) of these ponds were also provided in the November 25, 2009, permit application package.

DPR considered various methods to meet NYSDEC's request of August 6, 2010, to minimize the infiltration of water through *"the lower layers of material to the maximum extent possible."* Based on this consideration, DPR is implementing a recommendation contained in the November 16, 2010, memorandum (see Appendix D.1) to line the five on-site water quality ponds to limit water exfiltration.

Supplemental drawings and specifications for the lining of these ponds are provided in Appendix D.4. The pond liner designs are consistent with the previously approved geometry and grading (engineering design) presented in the November 25, 2009, permit application package.

4.3.1.2 Drainage Capacity Review

Following submittal of the Site-wide water balance and the decision to line the water quality ponds, a review of the Site's existing Stormwater Pollution Prevention Plan (SWPPP) (TRC 2009c) was performed by DPR.

NYSDEC requested this review to determine whether additional flow into the Site's drainage system (as a result of lining the water quality ponds and the higher permeability cover soil) would exceed the storm drainage system capacity.

The review indicated that additional flow to the drainage system would not exceed the previously permitted design discharge rates in the SWPPP. The review also concluded that the system's drainage capacity is adequate. The technical memorandum summarizing the drainage review was submitted to NYSDEC on October 18, 2011 (see Appendix D.5). In an October 21, 2011, email response (see Appendix D.5), NYSDEC indicated that they *"…conditionally approve cover*

material at the FPP [Ferry Point Park] golf course having permeability up to 30 inches per hour."

The conditional approval was based on a request for DPR to *"submit for approval an amendment to the Stormwater Pollution Prevention Plan (SWPPP) dated November 13, 2009, with plans and computations that reflect the partial lining of the stormwater basins."* DPR provided this in a technical memorandum to NYSDEC dated November 16, 2011 (see Appendix D.6, pond liner design in Appendix D.4). The memorandum presented a formal submittal of the pond liner design to NYSDEC and included excerpts of calculations from the November 13, 2009, SWPPP. This memorandum showed that the original calculations in the 2009 SWPPP remain adequate since they included conditions for lined ponds. An email approval of "*DPR's SWPPP Amendment"* was given by NYSDEC on December 2, 2011 (see Appendix D.6).

4.4 Landfill Gas Management

The Site's Landfill Gas (LFG) Management system is designed to prevent harmful effects on workers or recreational users of the Site. Therefore, and as requested by NYSDEC in their August 6, 2010, comments, landfill gas data gathered for the Site in 2009 and 2010 were used to model surface methane emissions, LFG generation rates, and the emissions of hazardous air pollutants (HAPs) across the Site. The data were also used to conduct a health impact analysis for users of the Site. Supporting documents on LFG evaluations and design are included in Appendices E and F of this report.

4.4.1 LFG Emission Generation Rates, Hazardous Air Pollutant Concentrations, and Health Impacts Analysis

LFG generation rates for the Site were first estimated in 1999 (AKRF 1999) using the EPA's 1995 "Compilation of Air Pollutant Emission Factors." The generation rates were estimated using a newer mathematical model in 2010, EPA's LandGEM model Version 3.02 (see Appendix E.1). The 2010 LandGEM model results predicted LFG generation rates similar to those of the 1999 modeling. The 1999 and 2010 analyses both indicate that LFG emissions and generation rates are consistent with a municipal solid waste landfill of the age of the Ferry Point Site.

The 2010 analyses also predicted the emissions of HAPs and other air pollutants from the Ferry Point Site. The results predicted that pollutant concentrations in the breathing zones are well below the applicable annual guideline concentrations (AGCs) and short-term guideline concentrations (SGCs). This indicates that there are no expected health impacts on users of the golf course due to these emissions.

The results of these efforts are presented in the Ferry Point Landfill Gas Report (EEEPC 2010, Appendix E.1). A supplemental letter of December 17, 2010, presented in Appendix E.2, provided follow-up responses to NYSDEC comments on the Landfill Gas Report.

In response to an additional comment from NYSDEC received on August 6, 2010, DPR performed emissions monitoring at 12 passive vertical vents installed at Community Park. This monitoring was performed in June 2011.

The monitoring results were used to calculate the emission rates of LFG constituents from the passive vents. Hourly and annual emission rates were predicted. In a July 1, 2011, email, the NYSDEC review of these results concluded that *"there is no ambient air impacts due to the emissions from the twelve vents at the Community Park… which poses no health impact to the public using the park."* Therefore, DPR concludes that no further monitoring is necessary beyond routine maintenance of the 12 passive vents.

Appendix E.3 contains the sampling and analysis report for vent monitoring at Community Park, and the July 1, 2011, email from NYSDEC.

4.4.2 LFG Management System

4.4.2.1 Sitewide Passive Venting System

The LFG management system as redesigned for the Site (since the November 25, 2009, permit application submittal) is an update of prior conceptual passive LFG designs and includes a passive system for the venting of LFG in all areas not covered by enclosed facilities. The primary goals for the design of the Site's LFG management system are to provide safe operating conditions and protect human health.

The proposed passive system is consistent with the plans presented in the 1999 EAS (AKRF 1999), the 2002 Technical Environmental Assessment (AKRF 2002), and the 2005 Engineering Reports (TRC 2005a, b) and was approved under the 2005 Part 360 Permit. It deviates from the 2009 permit renewal application prepared by TRC Engineers (TRC), which recommended an active system. An active system uses blowers or fans to extract gas through vents from the landfills subsurface, whereas a passive system uses vents without blowers or fans. Supplemental Site investigations and extraction testing performed by TRC Engineers at the Site in 2009 and 2010 were reviewed by Walsh Environmental Scientists and Engineers, LLC (Walsh) in 2010. Emissions modeling was also performed by EEEPC in 2010, as discussed in Section 4.4.1.

Based on these evaluations and modeling of Site conditions, a Landfill Gas Management Plan (LFGMP) was prepared (see Appendix F.1). The plan concluded that a passive venting system is sufficient to achieve safe operating conditions for users and workers of the golf course and parks. A description and details of the Site's LFG management system are presented in the LFGMP. The LFG management system as currently designed is consistent with the proposed venting system described in the 2005 Permit.

4.4.2.2 LFG Management of Irrigation Lake and Water Quality Ponds

As described in Section 4.3.1.2, the design of the golf course includes one lake to be used for the collection and storage of rain water for irrigation, and five smaller

water quality ponds to provide active stormwater retention and limit the off-site migration of sediment. Design of the irrigation lake and water quality ponds includes the installation of impermeable liners to prevent exfiltration. The liner component impedes surface venting of LFG from the underlying soils.

The lined irrigation lake has been constructed in the northwestern area of the golf course. A gas transmission layer was constructed underneath the liner and is connected to perforated piping around the perimeter of the lake as shown on Contract Drawings H2.1, H2.2, and H2.13, which were submitted with the November 25, 2009, permit application. This perforated pipe will be used for the passive venting of LFG from beneath the liner of the irrigation lake.

Passive venting has been included in the design of all water quality ponds at the Site. Passive venting of the ponds includes a permeable gravel layer and perforated collection piping from areas underneath the ponds and exiting the top of vent stack above the breathing zone. Engineering drawings and technical specifications for the water quality pond liners and passive venting design are provided in Appendix D.5.

4.4.2.3 LFG Management for Enclosed Structures

Due to its potentially explosive nature, LFG shall not be allowed to accumulate within any enclosed structure at the Site. To protect the occupants, an underslab vent system for each enclosed building shall be installed and continuously operated.

The LFGMP (see Appendix F.1) describes the active sub-slab depressurization systems (SSDS) that have been designed for the underslab of each enclosed building at the Site. These systems will have continuous explosive gas monitoring with local and remote alarm capabilities. The SSDS engineering drawings for the golf course facilities (maintenance building and comfort station) are provided in Appendix F.3. The Community Park comfort station design was provided in the November 25, 2009, permit application. The Waterfront Park comfort station has not been designed.

Maintenance of the SSDS and their monitoring equipment will be performed in accordance with the operations, monitoring, and maintenance (OM&M) program for the Site's Landfill Gas management system (see Section 4.4.4).

The design of any additional structures at the Site will be completed in accordance with New York City Department of Buildings requirements. The need for LFG mitigation systems for any future Site structures will be evaluated as part of their design.

4.4.2.4 LFG Venting for Subsurface Utilities

Low-permeability soil/bentonite collars ("soil collars") will be installed for all utility trenches that contain permeable bedding in order to prevent the migration of LFG into enclosed buildings at the Site. The soil collars will be installed

around the water and sewer pipelines, within the trenches at the subsurface location where the pipeline crosses above the building foundation (the building line). Each soil collar will be passively vented as described in the LFGMP (see Appendix F.1) and as shown on the engineering design drawings in Appendix F.2.

Similarly, conduit seals will be used for electrical conduits that are installed in trenches using permeable bedding materials. The conduit seals will be installed at the building lines.

Other utility LFG controls include the underslab passive venting for the aboveground double-check valve (DCV) enclosure. The DCV enclosure is for the potable water supply line as it enters the golf course site. Detailed design drawings for the venting the DCV enclosures are provided in Appendix F.4.

The need for LFG venting for any future Site subsurface vaults will be evaluated as part of their design.

4.4.3 Landfill Gas Management Operations, Monitoring & Maintenance Program

The NYCRR Part 360 "Solid Waste Management Facilities" regulations, Section 2.17(f) concerning LFG, were used as guidance in developing the Site's LFG monitoring program. In accordance with this section: (1) the concentration of explosive gases must not exceed 25% of the lower explosive limit (LEL) in on-site and off-site structures; and (2) the concentration of explosive gases must not exceed the LEL at the property boundary.

Because of the planned future uses of the site as a golf course, banquet facility, and public park, the LFG monitoring plan provides a comprehensive program for future monitoring and maintenance at the Site, with specific contingency actions. Continuous LFG monitoring with local and remote alarm capabilities will occur in all enclosed Site buildings for the protection of occupants.

The LFG monitoring and maintenance (M&M) supervisor will be assigned responsibility for overseeing all Site LFG M&M activities, and will serve as the primary point of contact for DPR. The LFG M&M supervisor will be a DPR employee with the responsibility and authority to direct all OM&M work activities and maintain the necessary monitoring personnel for the required M&M activities.

OM&M for the Site's LFG management system will take place on an ongoing, routine schedule, with additional inspections to address maintenance concerns and potential alarm call-outs and to provide contingency monitoring and actions as needed. The OM&M plan for the Site is presented in Section 6 of the LFGMP (see Appendix F.1). This plan has also been incorporated by reference into the Post-Construction Custodial Plan (see Appendix I) for the Site.

4.5 Groundwater Characterization

Municipal solid waste (MSW) filling operations ceased at the Site in the 1960s, prior to the implementation of the comprehensive environmental regulations now in place, and a formal groundwater sampling program was not required at that time. Information on groundwater quality at a former landfill site such as Ferry Point Park East can be used to help evaluate existing groundwater conditions.

For the 2005 Permit application, the Site's history was reviewed and a geotechnical investigation was performed to evaluate the potential for adverse impacts on the Site's groundwater due to the placement of fill during construction of the golf course and parks.

A summary provided in the 2005 Engineering Report concluded *"that the placement of fill would not have an adverse impact on pre-development groundwater conditions at the site and that the proposed golf course construction would not result in an increased flow of contamination into the river through groundwater flow."* (TRC 2005a).

In their comments of June 25, 2010, NYSDEC asked DPR whether any new information was available regarding groundwater conditions at the Site, and if any new, relevant information was available, to verify the conclusions of the geotechnical portion of the 2005 Engineering Report (TRC 2005a).

Following several discussions with DPR, and because no prior sampling had been required, NYSDEC requested that DPR undertake a groundwater sampling program and develop a reference point for background water quality conditions at the Site.

To comply with this request, DPR prepared written field procedures for new well installations, well development, and groundwater sampling (see Appendix G.1). The field procedures were submitted to, and approved by, NYSDEC prior to the start of the work effort. Prior to installation, the locations of the monitoring wells were approved by NYSDEC during a meeting held with DPR on September 22, 2011.

In February 2012, eleven new groundwater monitoring wells were installed across the Site to obtain information on current groundwater conditions. Design documents for the groundwater monitoring wells are included in Appendix G.2. An initial sampling event was completed in February 2012 and included the testing activities described below.

- **Groundwater Elevation Measurements:** Water depths were measured at the 11 groundwater monitoring wells. Two measurements were taken from each well within one hour each of high and low tides, starting at the shoreline and moving inland.

- **Elutriate Testing:** One soil core sample per well was collected during well installation in order to perform elutriate analysis. Samples were selected from shaping material zones based on visual observation of the soil cores.

- **Groundwater Testing:** Groundwater samples were collected at each of the 11 wells and shipped for laboratory analysis.

- **Hydraulic Conductivity Testing:** In situ slug testing for hydraulic conductivity was completed at each of the 11 groundwater monitoring wells.

The initial groundwater monitoring data from February 2012 was submitted to NYSEC by email on March 28, 2012. This data is included in the report for the initial groundwater monitoring event (see Appendix G.5). At that time, DPR requested direction from NYSDEC concerning procedures for future sampling events. That is, should future sample collection be modified due to the high turbidity (>1,000 nephelometric turbidity units [NTUs]) observed in the initial samples.

A call was held with NYSDEC on May 8, 2012, to discuss the initial data and provide guidance on future monitoring (see Appendix G.3 for call minutes. Also during this call, NYSDEC directed DPR to perform inorganic analyses on both filtered and unfiltered samples collected during the next sampling event. If the next round of results is found to be in expected ranges, then future sampling events will utilize only filtered samples for inorganic analyses.

NYSDEC provided DPR with requirements for future groundwater monitoring in their FPP Groundwater Characterization/Monitoring Objective, on May 8, 2012 (see Appendix G.4). DPR will implement the groundwater monitoring program in accordance with the schedule and monitoring parameters requested by NYSDEC.

The schedule includes two additional quarterly sampling events, followed by approximately three semi-annual events (through completion of construction) and three post-construction annual sampling events. After the third annual sampling event, DPR may request to reduce the sampling frequency or cease the groundwater sampling program at the Site. Table 4-1 provides a schedule of the monitoring events that will be performed to complete this program and the parameters that will be analyzed for during each event.

Post-construction groundwater monitoring and groundwater monitoring well maintenance requirements are incorporated into the Post-Construction Custodial Care Plan for the Site (see Appendix I).

Table 4-1 Groundwater Monitoring Program Schedule

Sampling Frequency	Approximate Dates of Sampling Events	Parameters
Quarterly	May 2012	6 NYCRR Subpart Part 360-2.11 Baseline Parameters; analysis for inorganic parameters on both filtered and unfiltered samples.
Quarterly	August 2012	6 NYCRR Subpart Part 360-2.11 Baseline Parameters; analysis for inorganic parameters on filtered samples only.
Bi-Annually (2x/year)	March 2013 September 2013 March 2014	6 NYCRR Subpart Part 360-2.11 Baseline Parameters; analysis for inorganic parameters on filtered samples only.
Annually	September 2014[1] September 2015 September 2016	6 NYCRR Subpart Part 360-2.11 Routine Parameters; analysis for inorganic parameters on filtered samples only.

Notes:
1. It is currently anticipated that golf course operations will begin in the fall of 2014, and that this event will be become the first of the three required annual sampling events.

4.6 Settlement Monitoring

4.6.1 Impacts on Short- and Long-Term Settlement Monitoring

Special Conditions 7 and 8 of the 2005 Permit set forth settlement monitoring requirements related to the placement of fill material across the Site. Monitoring must also conform to the recommendations provided in the Settlement Evaluation and Long-Term Monitoring Plan prepared by Langan Engineering and Environmental Services, Inc. (Langan 2005).

Short-Term Settlement Monitoring

The short-term settlement monitoring program began in December 2002 with the bi-weekly monitoring of seven test fills and six settlement plates located throughout the Site. Test fills consist of an engineered soil fill ranging from 10 to18 feet deep, generally located on-site in areas where significant thicknesses of fill are required. Settlement plates consist of a subsurface plate beneath a casing and a flush-mount monitoring access port, similar to a monitoring well. Settlement plates that are part of the short-term settlement monitoring program were generally located in areas of the site already at or close to final grade.

In their report, Langan recommended the following adjustments be made to the monitoring program during construction:

- Test fills that obstruct construction activities should be replaced with a settlement plate to be monitored near the location of the test fill.
- Settlement plates that need to be moved for construction purposes should be relocated to the same general area and monitored until long-term monitoring points have been installed.

Short-term settlement monitoring continues to be performed bi-weekly at the Site. Monitoring at several points has now been discontinued due to interference with ongoing construction. In an email correspondence dated May 1, 2012 (see Appendix H), NYSDEC informed DPR that these short-term monitoring locations do not need to be replaced as long as construction at the Site progresses.

As construction is concluded in each area of the Site, long-term monitoring plates will be installed as described below.

Long-Term Settlement Monitoring

The revised Settlement Plate Locations Plan and a sketch that shows the additional monitoring point between golf course holes 6 and 7 (Appendix H) were approved by NYSDEC in an email dated May 1, 2012. The long-term settlement monitoring points will be installed as construction is concluded in each area. Upon installation, the long-term settlement plates will be monitored in accordance with the criteria set forth in Special Condition 8 of the 2005 Permit.

4.7 Post-Construction Custodial Care Plan

The Ferry Point Park East Post-Construction Custodial Care Plan (FPCCCP) has been prepared to meet the relevant requirements of NYDEC Part 360 Permit No 2-6006-00014/00013-0 (hereafter referred to as the "Permit") and all other applicable conditions as agreed upon between NYSDEC and DPR. This document provides for the post-construction custodial care requirements as they relate to the systems and components installed as part of Site-wide development specific to Ferry Point Park East. The Post-Construction Custodial Care Plan is provided in Appendix I.

As specified in Special Condition 39 of the 2005 Part 360 Permit, as built drawings and a written post-construction certification report for NYSDEC review and approval and certification by the IEM shall be prepared within 60 days of completion of the filling operation on the Site and construction of the earthwork portion of the Project. Therefore, no as-built drawings or post-construction certification report has been provided in this FPCCCP.

The scope of the FPCCCP is to provide the current monitoring and maintenance plans and descriptions for the components and systems within Ferry Point Park East as they will exist following the conclusion of construction at the Site. For each component or system, a brief overview is included within the scope of this document. In addition, an emergency personnel contact list is provided in the Site's Health and Safety Plan, which is referenced in the Post-Construction Custodial Care Plan.

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Bally's Bronx

Ferry Point Park Landfill Gas Management Plan

Prepared by: Ecology and Environmental Engineering, P.C.

LANGAN

Ferry Point Park East
Landfill Gas Management Plan

Originally submitted in October 2011
Revised in May 2012
Revised on August 31, 2012
Revised on October 15, 2013

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List of Abbreviations and Acronyms

AES	American Environmental Solutions, Inc.
AGC	Annual Guideline Concentrations
AKRF	Allee, King, Rosen & Fleming, Inc.
BGS	below ground surface
CAA	Clean Air Act
CEQR	City Environmental Quality Review
cfm	cubic feet per minute
CO_2	carbon dioxide
cy	cubic yard
°F	degrees Fahrenheit
DPR	(New York City) Department of Parks and Recreation
DSNY	New York City Department of Sanitation
EAS	Environmental Assessment Statement
EEEPC	Ecology and Environment Engineering, P.C.
EPA	(United States) Environmental Protection Agency
FPP	Ferry Point Partners, LLC
GHG	greenhouse gas
HAP	hazardous air pollutant
in/sec	inches per second
in-wc	inches of water column
LDPE	low density polyethylene
LEL	lower explosive limit
LFG	landfill gas
LFGMP	Landfill Gas Management Plan
M&M	monitoring and maintenance
m^3/Mg	cubic meters per megagram
Mg/yr	megagrams per year

List of Abbreviations and Acronyms (cont.)

MSW	municipal solid waste
N_2	nitrogen
NMOC	non-methane organic compound
NYCCR	New York Codes, Rules, and Regulations
NYCDEP	New York City Department of Environmental Protection
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
O_2	oxygen
O & M	operation and maintenance
OM&M	operations, maintenance and monitoring
ppm	parts per million
psi	pounds per square inch
ROI	radius of influence
SEQRA	State Environmental Quality Review Act
SF	square foot
SGC	short-term guideline concentration
SOW	scope of work
SSD	sub-slab depressurization
TRC	TRC Engineers
ULURP	Uniform Land Use Review Procedure
VOC	volatile organic compound
Walsh	Walsh Environmental Scientists and Engineers, LLC

1 Introduction

Ferry Point Park in the Bronx (the Site) is a former landfill that is bounded by the Bronx Whitestone Bridge and Hutchinson River Parkway to the west, Balcom, Miles, and Emerson avenues to the east, Schley Avenue and St. Raymond's Cemetery to the north, and the East River to the south.

New York City Department of Parks (DPR) has initiated development of a community park, waterfront park, and a golf course on the Site. The boundaries of these portions on the Site are presented in Figure 1-1.

Ecology and Environment Engineering, P.C. (EEEPC) has prepared this Landfill Gas Management Plan (LFGMP) to evaluate landfill gas (LFG) conditions at the Site and to describe the systems proposed for long term LFG control at the Site.

The Ferry Point landfill ceased municipal waste (MSW) landfill operations in the 1960s, and has been closed for approximately 50 years. Over 12 years of LFG monitoring data is available for the Site, dating from 1999. Several field investigations and two gas emissions models have also been completed for the Site. This extensive supply of data forms the basis for the LFG management and monitoring methods proposed in this document.

1.1 Purpose and Scope

Environmental compliance for site development is being conducted in accordance with a November 2005 New York State Department of Environmental Conservation (NYSDEC) modified Part 360 Solid Waste Management Permit, for which DPR is the current permit holder.

The proposed LFG management and monitoring approach presented in this document will be incorporated into the Part 360 permit renewal application for the Site. A review of available documentation of previous activities relating to LFG monitoring, investigation, and control at the Site was performed and is presented as a preface to the design component of this plan.

The LFG design presented in this LFGMP supplements prior site conceptual LFG designs and proposes a Site-wide passive system for the venting of LFG in all areas not covered by enclosed facilities. The primary goal for the Site's LFG management has always been to ensure safe conditions and the protection of human health.

The proposed passive system is consistent with the plans presented in the 1999 EAS (AKRF 1999), the 2002 Technical Environmental Assessment (AKRF 2002), and the 2005 Engineering Reports (TRC 2005a, b), and approved under the current Part 360 Permit. It deviates from the 2009 permit renewal application prepared by TRC Engineers (TRC), which recommended an active system. A review of TRC Site investigations and extraction testing by Walsh Environmental Scientists and Engineers, LLC (Walsh) and emissions modeling performed by EEEPC in 2010 was used to conclude that a passive system is sufficient to achieve safe conditions for golf course users or workers.

Existing and proposed LFG control systems are listed in Table 1-1.

Table 1-1 Existing and Proposed Landfill Gas Control Systems at the Site

Control System and Location	Type	Concept Included in 2005 Permit	To be Included in Renewed Permit?
Golf Course			
Irrigation Lake Venting System	Passive[1]	Yes	Yes
Water Quality Ponds Venting System	Passive	No	Yes
Sub-slab depressurization systems 1) One 12,000-square-foot maintenance facility 2) One 800-square-foot comfort station on the eastern area of the Site; and 3) One approximately 15,000-square-foot combined golf course, clubhouse, and banquet facility (not yet designed (NYD))	 Active Active NYD	 Yes Yes Yes	 Yes Yes NYD
LFG passive venting for subsurface utility lines that enter enclosed facilities or travel offsite	Passive	Yes	Yes
Perimeter Vent Trench	Passive	Yes	Yes
Individual LFG Vents[2]	Passive	Yes	Yes
Community Park			
Perimeter Vent Trench Along Eastern Perimeter – buried trench with individual LFG Vents along its length.	Passive	Yes	Yes
12 Individual LFG Vents	Passive	Yes	Yes
Sub-slab depressurization system for one 800-square-foot comfort station	Active	Yes	Yes
Water Quality Ponds Venting	Passive	Yes	Yes
Individual LFG Vents	Passive	Yes	Yes

Table 1-1 Existing and Proposed Landfill Gas Control Systems at the Site

Waterfront Park			
Sub-slab depressurization system for one comfort station (not yet designed)	NYD	Yes	NYD

Notes:

1. The Irrigation Lake venting system infrastructure allows for the connection of an active blower system as a potential contingency action. Section 6 discusses the conditions under which contingency actions may be taken.
2. See Section 5 for discussion of passive venting design and Appendix A for layout and details of passive gas vents.
3. NYD denotes "Not Yet Designed".

1.2 Document Organization

The remainder of this document is divided into four sections. The purpose of each section of this LFGMP is as follows:

- Section 2 - Landfill Gas Generation and Movement: Discusses gas generation rates and primary gas migratory pathways within landfills.
- Section 3 - Background: Discusses Site setting and project history, proposed facilities, sampling and monitoring data, and the evolution of the LFG collection system design.
- Section 4 - Evaluation of Existing Landfill Gas Data and LFG Exposure Assessment: Presents a Site conceptual model that includes an outline of the vertical and lateral extent of the LFG within the interior of the Site and at and along the Site perimeter, and an assessment of the risk from exposure to LFG both on site and at the Site perimeter. Provides a collective review of the data and draws conclusions on current and future site LFG conditions.
- Section 5 - Landfill Gas Management Approach: Discusses the basis for the proposed design. Provides design details of the proposed final LFG collection system.

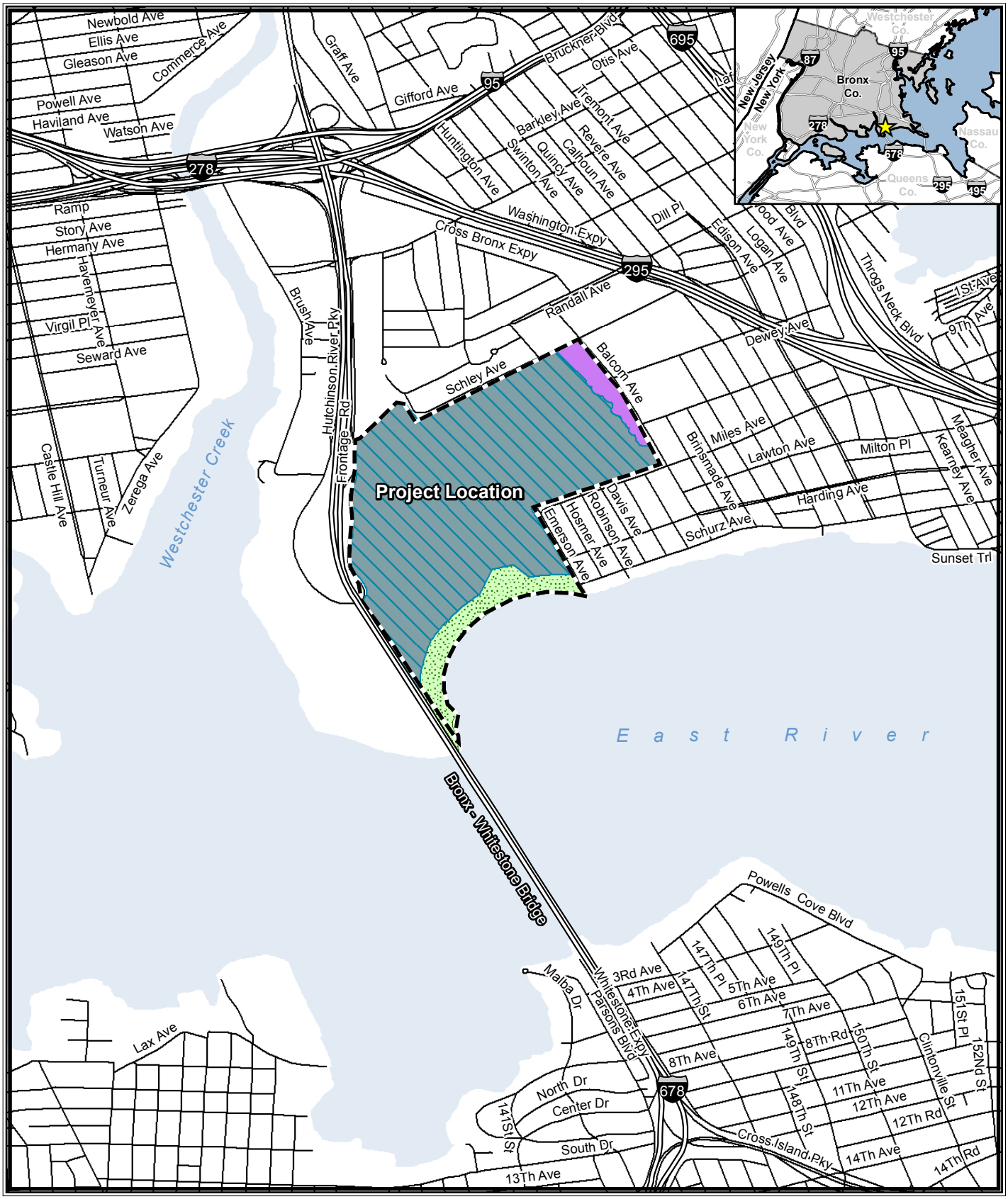

Project Boundary
Community Park
Golf Course
Waterfront Park

ecology and environment engineering, p.c.
International Specialists in the Environment

0 0.25 0.5 1 Miles

Figure 1-1 Site Location Map

2 Landfill Gas Generation and Movement

2.1 Landfill Gas Generation

LFG is generated in a landfill when bacteria in the landfill waste use anaerobic processes to break down organic material. LFG is composed primarily of methane and carbon dioxide. LFG also contains small amounts of nitrogen, oxygen, water vapor, sulfur, hydrogen, and other non-methane organic compounds (NMOCs). NMOCs comprise less than 1% of LFG and include ethane, propane, butanes, pentanes, and other carbon compounds.

The specific components and quantity of LFG depend on a number of factors, which include but are not limited to the following:

- Waste composition;
- Age of refuse;
- Moisture content; and
- Temperature.

2.1.1 Methane Generation

Methane concentrations in landfills can vary according to the season, with low concentrations of methane and high concentrations of carbon dioxide in the summer.

2.2 Landfill Gas Migration Pathways

Migration of LFG in the subsurface is influenced by several site-specific factors such as pressure and diffusion gradients, subsurface lithology and soil stratigraphy, and groundwater levels. The factors affecting LFG migration are discussed below.

2.2.1 Diffusion

LFG does not build up in a landfill in a uniform manner. As it builds up in the subsurface, it moves from areas of high concentration to areas of lower concentrations. Since gas concentrations are higher within the landfill than outside the landfill, LFG will tend to diffuse, or spread, to surrounding areas.

2.2.2 Pressure Gradient

Pressure gradients enable LFG to move both vertically and horizontally within a landfill. This is the primary way LFG moves within the subsurface. As gas continues to be generated, the pressure increases and LFG moves to areas of lower pressure. If there is a confining, or less permeable, layer in place above the MSW layer, LFG will move laterally toward an area of lower pressure.

If no confining layer is present, LFG will migrate vertically to the surface, where it exits the landfill surface into the atmosphere. This occurs when the LFG subsurface pressure is higher than barometric pressure. Diffusion of LFG into the atmosphere results in a rapid reduction to negligible and safe levels once it reaches the landfill surface.

2.3 Vertical Landfill Gas Migration

The methane component of LFG is lighter than air. As a result, LFG will travel upward if the permeability of the overlying material is equal or higher than that of the surrounding material

Groundwater level is another factor that influences vertical migration: as the water table rises into an area of the landfill, it forces the LFG upward.

2.4 Horizontal Landfill Gas Migration

LFG can migrate horizontally through both natural pathways (fractured rock and porous soil) and man-made pathways (e.g., porous pipe bedding materials, utility pipes and conduits, sand or gravel layers). Layers of low-permeability material that overlie LFG-producing waste material can significantly reduce surface emissions but increase the likelihood for horizontal migration.

3 Background

3.1 Site Setting and Project History

3.1.1 Setting

The Site, a former landfill, is located in the Bronx next to the Whitestone Bridge and is bounded by the Hutchinson River Parkway to the west; Balcom, Miles, and Emerson Avenues to the east; Schley Avenue and Saint Raymond's Cemetery to the north; and the East River to the south (see Figure 3-1). The original parcel of 171 acres was first acquired by New York City in 1937, and two additional parcels totaling 243 acres were acquired by the City in 1948. From 1951 into the 1960s, the New York City Department of Sanitation (DSNY) used the Ferry Point property as a municipal waste importation site (DPR 2007). Figure 3-1 shows the approximate fill progression at the Site. Landfill operations ceased in the 1960s. Upon closing, the landfill was capped with a soil cover of varying thickness across the site.

A summary of the results from previous investigations is presented in the 2005 Engineering Report (TRC 2005a, b). A bibliography of documents reviewed is provided in Section 6 of this LFGMP.

3.1.2 Project History

In the late 1990s, the DPR entered into an agreement with Ferry Point Partners, LLC (FPP) to develop, construct, and operate a new public recreation facility, including a golf course, community park, waterfront park, and related facilities that would encompass 222 acres of the Site. At that time, all required reviews for the Project were completed under the City Environmental Quality Review (CEQR), the State Environmental Quality Review Act (SEQRA), and the City's Uniform Land Use Review Procedure (ULURP).

In July 2000, NYSDEC issued a Part 360 Solid Waste Management Permit (NYSDEC No. 2-6006-00014-000110; Part 360 Permit) jointly to the FPP and the DPR (collectively, the "Historic Permittee") for a non-specific "facility" under Part 360-1.9(b) at the Site. This permit allowed the import and placement of a total of 1,000,000 cubic yards (cy) of fill necessary to construct the golf course. In February 2002 and November 2005, the Part 360 Permit was modified to accommodate additional golf course design features and changes in the design approach. In November 2005, NYSDEC issued a modified Part 360 Solid Waste Management Permit (No. 2-6006-00014/00013) to place a total of 2,370,000 cy of in-place fill on the Site (NYSDEC 2005).

In 2007, the DPR terminated its license agreement with the FPP. Since that time, the DPR has taken over the site development responsibilities and has initiated re-development of the community park, waterfront park, and golf course portions of the Site.

3.2 Current Project Plans

3.2.1 Overview

The project includes the development of public recreational facilities (waterfront and community parks) on 29.5 acres, a comprehensive golf facility on 192.5 acres, and a fine-dining/banquet facility incorporated into the golf course club-house facilities.

3.2.2 Cover Soil

As per the 2005 Part 360 Permit, 423,729 cy of uncontaminated soil were approved for use in the cover layer. The final cover/topsoil layer will consist of uncontaminated soil materials, which meet background levels approved by NYSDEC and will be imported from non-industrial sites. (For cover layer fill specifications see Section 2.1.2 of the 2005 Fill Report Volume 2, Exhibit C [TRC 2005b]).

Major components of the cover layer will be constructed to meet the Nicklaus Design Technical Specification as noted in Exhibit C of the June 30, 2005, Engineering Report (TRC 2005a), and summarized here as follows:

- Greens mix imported to the site shall be tested per the specified material testing requirements. Fertilizer and soil amendments may be applied on the greens mix after spreading and grassed; and

- Topsoil imported shall be free of rock and debris greater than three-quarters of an inch. Soil amendments, fertilizer applications, and seed may be applied to tee, fairway, and rough areas.

A NYSDEC letter from July 28, 2009 (NYSDEC 2009) notes that a minimum thickness of 2 feet of cover layer material is required for all active recreation areas that are not covered with a building or other acceptable impermeable cover and at least 1 foot of cover layer material is required for passive recreation areas.

The 2005 permit requires that “the major components (greens, contours, heights and topsoil) of the cover layer shall meet the Nicklaus Design Technical Specification, as noted in Exhibit C of the June 30, 2005 Engineering Report.” In accordance with the Nicklaus Technical Design Specifications, the Permit allows amendments to the topsoil and/or sand capping. Because imported material may not be readily available, sand capping may be used as an alternative to topsoil on portions of the course.

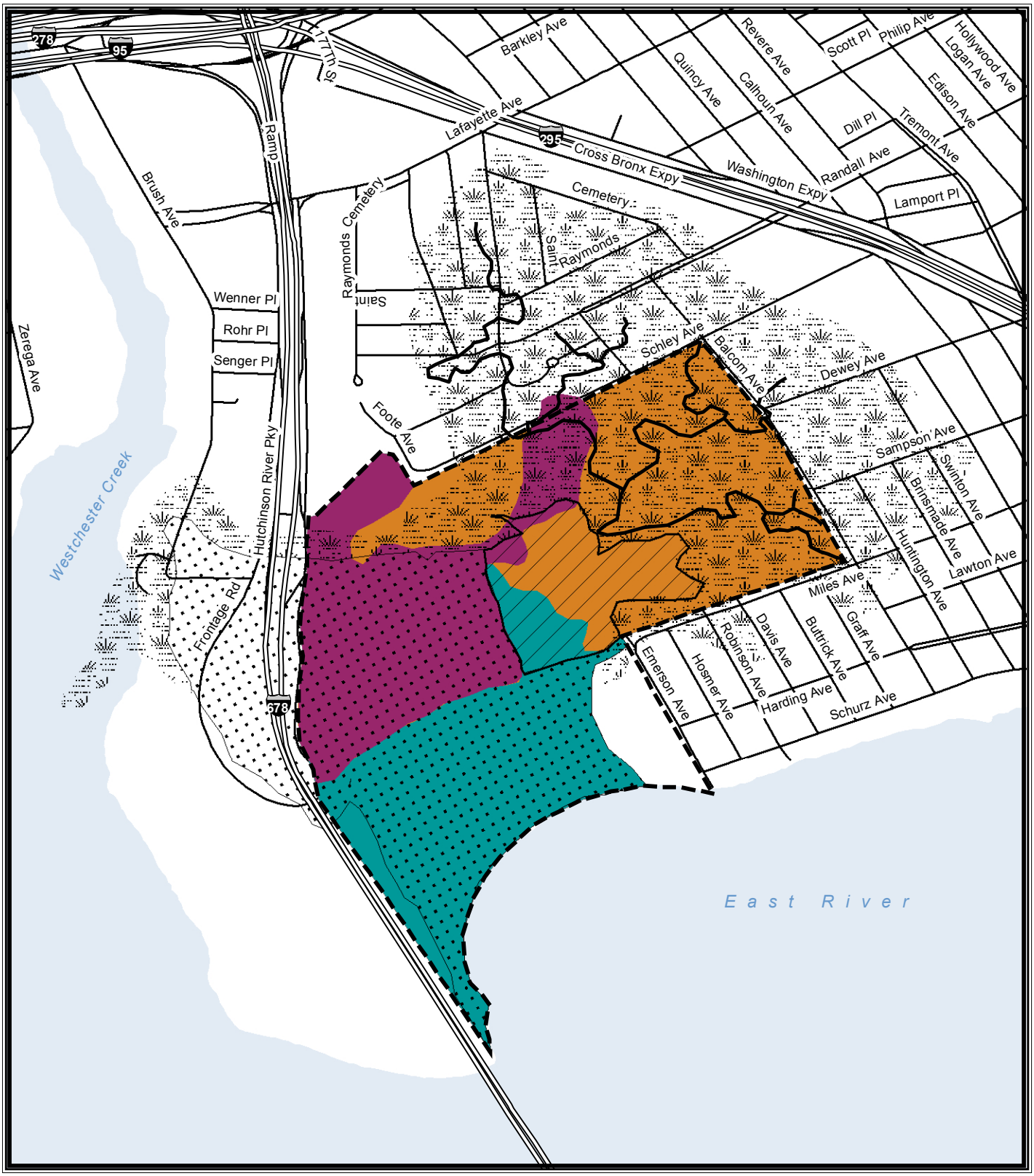

Figure 3-1 MSW Fill Progression Map

Project Boundary

Area Filled 1951

Area Filled 1954

Area Filled 1959

Historic Baxter Creek

Historic Marshlands

Historic Baxter Creek Inlet

Historic East River

ecology and environment engineering, p.c.

0 0.125 0.25 0.5 Miles

Source Data: Historic Wetland Maps:
Friends of Ferry Point Park http://www.ferrypointpark.org/

3.2.3 Buildings

The following buildings are proposed for the golf course portion of the Site:

- Two 220-square-foot, open-air rain shelters located on the western and northern portions of the site
- One 12,000-square-foot maintenance facility on the western portion of the site
- One 800-square-foot comfort station on the eastern area of the site
- One approximately 15,000-square-foot combined clubhouse and banquet facility on the southwest portion of the site.

The following is proposed for the community park:

- One 800-square-foot comfort station near the center of the park.

The following is proposed for the waterfront park:

- One comfort station on the western area of the park.

3.2.4 Utilities

An extensive storm sewer system will be installed throughout the golf course. Storm water will be drained from the golf course and directed to on-site water quality ponds located within the golf course or to New York City Department of Environmental Protection (NYCDEP) combined sewer systems. Excess water beyond the storage capacity of the ponds will also be directed from the water quality ponds to the NYCDEP sewer system.

The main drainage line for the golf course surface catchment system will be set at a depth of approximately 3 to 4 feet below ground surface (BGS). Lateral branches to the fairways will intersect the main line at this elevation and will be graded to the fairways with a final depth of 1.5 to 2 feet. A fairway "herring-bone"-shaped surface drainage system will tie into these lateral branches and into the main site storm drainage line.

The drainage master plan is presented in the NYCDEP Master Plan (Drawing X.126-808M of the Golf Course Contract Drawings).

A sanitary sewer is to be installed along the south, west, and north perimeter of the golf course and cross into the golf course at hole 18 and to the comfort station on the eastern area of the site. Other on-site subsurface utilities include water main, electric, telephone, and gas. These utilities will service buildings and run along the western and northern perimeter of the Site as well as to the comfort station on the eastern area of the Site. Subsurface electric utilities are also to be installed throughout the practice area. Irrigation lines will be installed throughout the golf course fairways, greens, and tees.

Existing utilities at the Site include the Emerson Avenue Box Culvert and an abandoned passive methane-venting system. The box culvert runs along the Emerson Avenue alignment through the middle of the golf course. The methane-venting system was installed at the northeast portion of the site, east of the Emerson Avenue Box Culvert, in 1986. The system contained a series of collection lines that allowed LFG to travel through one main vent. Attempts to locate this system were unsuccessful, and the system's structural integrity or viability cannot be ascertained. Therefore, the existing system will not be incorporated into the currently proposed LFG venting system (see Section 3.3.2).

3.3 History and Evolution of the System

EEEPC reviewed site documents and reports generated since 1999 to develop an understanding of previous monitoring and control of LFG at the Site. A list of the documents reviewed for this LFGMP is presented in Section 6.

3.3.1 1999 Activities and Landfill Gas Control Systems

As described in the Hazardous Materials section of the 1999 Environmental Assessment Statement (EAS), Allee, King, Rosen, & Fleming, Inc. (AKRF) evaluated LFG at the Site (AKRF 1999). Both ambient air and subsurface borings were monitored. This investigation and recommended control systems are discussed below.

Although AKRF produced the 1999 EAS report and performed several gas monitoring studies for the project, TRC wrote the Hazardous Materials section of the report and incorporated AKRF investigations into their text. TRC analyzed methane emissions rate as part of this work.

Landfill Gas Monitoring

AKRF surveyed for soil gas in April 1999 to characterize LFG occurrence and assess the potential for adverse effects of methane gas on the golf course facilities. Thirty-one borings were measured for percentages of methane, carbon dioxide, and oxygen at depths of 2 to 3 feet below the landfill surface. Ambient air was monitored in the immediate vicinity of the survey points. Methane was not detected in the ambient air, even when measurements were taken at the surface immediately adjacent to the soil gas survey points. Readings below the landfill surface ranged from non-detect to 76% methane by volume and were described as being "not atypical of a landfill this size and age."

Landfill Gas Emission Rates

The 1999 EAS describes TRC's analysis of methane generation, which was used to determine sub-slab venting requirements under on-site buildings. Using the United States Environmental Protection Agency's (EPA's) "Compilation of Air Pollutant Emission Factors" (EPA 1995), TRC calculated a methane gas generation rate that considered the age of the waste, the rate and amount at which waste had been accepted over the lifetime of the landfill, and several constant factors for methane generation potential and rate constant based on Site conditions.

The calculations yielded a Site methane gas generation rate of 0.00004 cubic feet per minute (cfm) of methane per square foot, or about 2 cfm per acre of surface area. TRC determined that the maximum allowable gas concentration in the air beneath a structure was 1% or less of methane in air (less than 20% lower explosive level [LEL]).

Using the above generation rate and a safety factor of 2, a minimum venting rate of 0.008 cfm of air per square foot of sub-slab was determined (0.00004 cfm methane generation rate/ [1% allowable concentration/2])(see Section 4.1.6 for a comparison of this estimate with the LandGEM modeling results.

Based on the estimated methane emission rate and venting calculation, TRC recommended installing active venting systems beneath the planned Site structures. The 1999 report did not recommend LFG venting systems in open space areas, except for specific turf grass areas.

The movement of methane through turf grass and the vegetative soil layer was anticipated by TRC to have limited and isolated impacts. If needed, based on future evaluations, TRC suggested that an impermeable barrier with a permeable gas-venting layer could be constructed below selected areas of the course ensure turf health. This was to be determined on a hole-by-hole basis during the final project design phase.

1999 Conceptual Proposal for LFG Control Systems

The 1999 EAS recommended the following features for the LFG control system:

- LFG interception and venting systems would be below buildings and, in the area of built structures, direct LFG away from buildings to designated release points. Several venting systems were considered for further evaluation, including passive vents, continuous mechanical venting, or intermittent mechanical venting controlled by a methane monitor.

- Ponds to collect and store water on-site were to be constructed with impermeable membrane liner systems to prevent water leaks and a gas-venting layer for passive gas collection and venting.

- Soil plugs and conduit seals for underground utilities and drainage features would be constructed.

3.3.2 2001 through 2004 Activities at and around the Perimeter Vent Trench

Landfill Gas Control Systems

The LFG perimeter vent trench was the primary gas-management structure proposed and constructed in 2001. No additional changes were proposed to the 1999 conceptual LFG control systems (described above in Section 3.3.1) during this

time. The LFG perimeter vent trench was installed in order to prevent the migration of LFG off-site. TRC designed and oversaw the installation of the trench and provided certified drawings to NYSDEC for each stage for approval (AKRF 2002).

The LFG vent trench was constructed along the eastern and part of the northern Site perimeter from May 2001 to December 2001 (see Figure 3-2). The purpose of the trench was to allow passive gas venting and provide a physical gas barrier between the Site and adjacent residential neighborhoods. The passive vent trench extends from the water's edge near the foot of Emerson Avenue, along the length of the Balcolm Avenue Site boundary and continues approximately 1,050 feet west past the intersection of Schley and Buttrick avenues.

Landfill Gas Monitoring

Off-site Monitoring Study. Starting in March 2001, AKRF sampled off-site soils to evaluate off-site LFG migration. The results were reported in the February 2002 AKRF Methane Monitoring Study (Attachment A of the 2002 Technical EAS [AKRF 2002]), and included the following findings:

- Perimeter monitoring performed by Emteque Corporation indicated that methane outside the vent trench was below the LEL since November 2001. However, MW-0, located at the corner of Schley and Buttrick avenues in the former Baxter Creek, showed no change after the vent trench was installed and ranged from 10% to 20% methane by volume. AKRF concluded that the source of methane in this area was off-site.

- Elevated levels were noted on Buttrick Avenue between Randall and Schley Avenues. Specifically, three monitoring points along Buttrick Avenue (300 to 400 feet north of the Site) had elevated levels of methane in the soil ranging from 10% to 50% methane by volume. AKRF also reported that installation of the LFG vent trench had not impacted these readings and presented two explanations:

  1. Elevated methane levels were located over former Baxter Creek, a marshy area filled in before 1954. The plants and organic sediments could have produced methane when covered with fill and subsequent laboratory test results indicated that soils were rich in organic material.

  2. Garbage was found in two test pits along Buttrick Avenue and outside of the Site.

  Considering these factors and the fact that no methane was detected in the ambient air above the trench, AKRF concluded that methane detected on Buttrick Avenue was due to an off-site source.

SOURCE: Ecology and Environment Engineering, P.C. 2011

Figure 3-2 Monitoring Locations

TRC reported results for biweekly monitoring of methane in perimeter wells and off-site, semi-permanent monitoring points and measuring depth to groundwater in the piezometer network starting in February 2002 (TRC 2002). Locations of sampling points included in the monitoring program are shown in Figure 3-2. A discussion of the results of the off-site monitoring is presented in Section 4 of this LFGMP.

Perimeter Monitoring Wells. At NYSDEC's direction, FPP installed perimeter LFG monitoring wells MW-0 through MW-18 (not including MW-13) at approximately 250-foot intervals along the eastern border of the Site, adjacent to a residential neighborhood (AKRF 2002). In accordance with the Part 360 Permit, these wells were monitored biweekly and continue to be included in the LFG monitoring program.

Part 360 Permit Modification Application

In February 2002, TRC submitted a permit modification application to supplement the April 2000 Engineering Report prepared for the original Part 360 Permit application. TRC indicated in this document that the LFG control systems presented in the 2000 Engineering Report would be implemented. The following items were discussed.

Piezometer Installation and Monitoring. Details regarding installation and monitoring of piezometers were presented in this report. Twenty-five piezometers (PZ-01 through PZ-25) were installed at approximate 300-foot intervals along the trench, adjacent to Miles Avenue. The piezometers were installed to monitor groundwater elevations relative to the vent trench depth.

Monitoring was proposed to begin one week after the piezometers were installed and every month thereafter until six months after all fill had been placed on the Site. The piezometers were to be inspected every month.

LFG Perimeter Vent Trench. The vent trench was reported to be operating and forming a physical barrier to prevent methane from migrating off-site. The Permit application indicated that the trench was designed to operate passively. The trench was on a biweekly inspection schedule.

1986 Passive Ventilation System. In a response to NYSDEC comments on the February 2002 permit modification application, dated July 2, 2002, TRC indicated that FPP planned a visual and test pit program to evaluate the systems around the 1986 passive-venting system outflow vent location. If the outflow vent could be located and nearby piping from the collection wells to the outflow vent were found to be functioning (i.e., conveying methane), the passive venting system would remain in place and FPP would construct and maintain a new outflow vent "at a nearby location removed from the primary golf course features." It is also stated in this response that MW-19 was installed separately by FPP and is not the outlet vent of the 1986 system. In follow-up correspondence with NYSDEC, dated February 10, 2003, TRC discussed their field investigations to locate the his-

toric venting system (TRC 2003a). Test pits and visual investigations were unsuccessful in locating the historic venting system. TRC recommended that if this system were uncovered during the upcoming construction activities, it should be preserved. (To date, the historic venting system has not been uncovered and, therefore, will not be included in the proposed LFG venting design).

3.3.3 2005 Activities and Landfill Gas Control Systems

Consistent with information presented in the 1999 EAS, the 2005 Engineering Report indicated that because of the age of the waste materials at the Site, which was approaching 40 to 50 years, the LFG generation rate is declining (TRC 2005a,b). Conceptual design of the LFG control system was also to remain similar to that proposed in 1999, noting that building slab areas would contain active venting systems, and the golf course and utilities would contain passive systems where necessary.

A number of monitoring activities were included in this report, along with a revised description of the LFG control system.

Landfill Gas Monitoring

Monitoring Wells. The 2005 Engineering Report (TRC 2005 a) provided the following information on monitoring wells:

- TRC continued to monitor all perimeter gas monitoring wells and off-site gas monitoring points biweekly for methane and oxygen per the 2002 Permit. Monitoring points were repaired and maintained as needed

- Elevated levels continued to be found in three monitoring points on Buttrick Avenue between Randall and Schley Avenues after construction of the vent trench, thus suggesting the presence of an off-site methane source.

- From October 2002 to February 2005, two off-site semi-permanent monitoring points (9 and 10) along Buttrick Avenue exceeded 25% of the LEL. Additionally, MW-0, located near the trench and within the Ferry Point Park property, routinely showed elevated levels.

Piezometers and Piezometer Monitoring

Groundwater was monitored every month at the piezometers as per the 2002 Permit requirements. TRC generated a construction-phase Response Action Plan to define response to conditions where groundwater in one or more groundwater level-monitoring piezometer was beneath the base of the trench elevation.

Landfill Gas Control Systems

The 2005 Engineering Report proposed the following components of the LFG control system, which were consistent with, but more detailed than those described in the 1999 EAS.

- Sub-slab venting components were primarily described as active systems beneath buildings and on-site structures. Several venting systems were recommended for further evaluation and the design was to be finalized based on building structure and location.

- The irrigation lake and ponds were proposed to have impermeable membrane liner systems with a gas-venting layer for passive gas collection and venting.

- Underground site utilities were proposed to have soil plugs and conduit seals for piping and conduits.

- The movement of methane through turf grass and the vegetative soil layer was anticipated to have limited and isolated impacts. If specific greens required venting for the maintenance of turf health, an impermeable barrier with a permeable gas venting layer was recommended beneath the vegetative soil.

- The 2005 Engineering Report did not propose LFG venting systems in open space areas, except for specific turf grass areas as described above.

3.3.4 Post-2005 Monitoring at and around the Perimeter Vent Trench

Landfill Gas Monitoring

Methane Monitoring. Permanent monitoring wells and semi-permanent points have been monitored biweekly in accordance with the 2005 Permit. Since issuance of the 2005 Permit, several exceedences have occurred at MW-0, with sporadic exceedences at MW-14 and E3R.

Piezometers and Piezometer Monitoring

Monthly monitoring of groundwater depth was completed in each piezometer in accordance with Special Condition 30 of the 2005 Permit. Sustained, low groundwater levels have not been observed since 2005.

Vent Trench

Routine inspections and maintenance ensured continued vent trench functionality. A review of historic vent trench data by TRC (TRC 2009a) concluded that the LFG vent trench was providing an effective perimeter control based on the following:

- In the year following installation of the vent trench, methane levels near the trench decreased significantly in most monitoring wells.

- Methane levels generally increased in 2005, likely due to installation of new monitoring points and repaired wells.

3.3.5 2007 through 2009 Activities

Methane Monitoring Reports (2007 through 2009)

Monthly methane monitoring reports were prepared by TRC from 2007 through September 2009. The monitoring routine included noting weather conditions; measuring methane and oxygen levels from both on-site methane monitoring wells and off-site semi-permanent methane monitoring points; and measuring groundwater levels in piezometers adjacent to the vent trench.

Pre-Extraction Pilot Test Subsurface Investigation (2008/2009)

In 2008 and 2009, TRC performed a subsurface investigation through the installation of borings and LFG probes and tested for soil gas with slam bars (sampling rods with slotted points) in order to supplement existing site data and assess the current nature and extent of LFG at the Ferry Point site (TRC 2009c).

Data obtained from TRC's investigation include:

- MSW thickness ranged from 4 to 47 feet. Saturated MSW thickness ranged from 0 to 24 feet.
- Methane gas concentrations observed in 16 of the western perimeter slam bar monitoring locations were less than the 25% LEL regulatory level for landfill gas control in on- and off-site structures, and less than the 100% LEL regulatory level at or beyond the property boundary (New York Code of Rules and Regulations [NYCRR]360-2.15(e) and.360-2.15(k)(4)).
- Combustible gas concentrations observed in the shallow slam bar monitoring locations were lower than those present in the deeper soil borings. Only one slam bar monitoring point exceeded 0.5% methane by volume.
- In 39 of 54 borings within the golf course interior, combustible gas was measured at 25% LEL or higher.
- Permeability field testing revealed that the average permeability of the existing shaping layer material was on the order of 10^{-5} inches per second (in/sec). Non-domestic MSW (typically soil with some construction and demolition debris) and domestic MSW had average permeabilities of 10^{-2} in/sec and 10^{-3} in/sec, respectively.

Extraction Pilot Test

TRC performed an extraction pilot test in 2009 with the intention of gaining a better understanding of on-site gas generation. NYSDEC's Air Guide 1 air toxics assessment procedure was used as the testing protocol and a comparison of emissions from the test to short-term guideline concentrations (SGCs) was made to confirm that SGCs were not exceeded. Details of the pilot extraction test are included in the Pre-Design Landfill Gas Investigation Scope of Work (SOW) and

the Amendment to Volume No. 1 of the Permit application dated November 25, 2009 (TRC 2009a).

Data from the test reported by TRC include the following:

- During static conditions, pressures measured in the LFG were less than 0.02 to 0.08 inches of water column (in-wc) gauge.
- During passive venting of the extraction well, monitoring probes showed positive pressure readings from 0.04 to 0.30 in-wc gauge.
- LFG samples collected from the extraction well produced methane concentrations of approximately 61% by volume. Methane concentrations measured with pressure probes exceeded LELs at several locations.
- Data from the active blower test were as follows:
  - An 85 standard cubic feet per minute flow rate was shown capable of evacuating pore volume and creating negative pressure over a 150 foot test radius.
  - Atmospheric infiltration was noted in several probes when the induced pressure vacuum was increased to 14 to 16 in-wc.

Shortcomings of the pilot test performed by TRC have been evaluated by EEEPC and are discussed in Section 4.2.1.1.

Landfill Gas Control Systems

Based on TRC's interpretation of the 2009 subsurface investigation and extraction pilot tests, they proposed a low-flow active LFG control system for "the golf course area of the site". The rationale for this design was that passive venting was not expected to achieve safe levels of methane in the subsurface in time for the anticipated opening of the golf course. The proposal for active systems for sub-slab venting was similar to those previously proposed by TRC in the 2005 Engineering Report (2005a). The irrigation pond venting system was proposed for incorporation into the active system.

However, the TRC report did state that operating an active LFG extraction at high flow rates could cause dangerous atmospheric infiltration, pulling air underground from the surface and potentially causing underground fires or explosions.

In this report, TRC proposed the following system components:

- Vertical LFG collection wells, screened in the MSW layer, would consist of horizontal collection systems, including perforated collection pipes placed underneath an impermeable liner below the green and tee areas and the clubhouse parking lot asphalt; horizontal collection pits/pipes under the comfort station and maintenance facility; and gas venting geocomposite and perforated collection pipe system associated with the lined irrigation pond.

- Forty control zones of extraction wells and green and tee horizontal collection piping would be established, divided to accommodate Site conditions (topography and "other features such as the box culvert") and to allow "flexible operations." Wells and piping in each zone would be connected through a network of header pipes to a vent flare with an in-line fan. Flexible operation would be enabled by a blanked flange in each vent point. Subsurface collection piping network would be incorporated into the irrigation pond and parking lot with piping connected to a central discharge location. Sub-slab active depressurization systems would be installed for the comfort station and maintenance facility and would include automated methane monitoring and alarm systems.

- A probe network for monitoring LFG control system performance and LFG across the Site and along the boundary would be installed.

4 Evaluation of Existing LFG Data and LFG Exposure Assessment

Based on the 2008/2009 TRC investigations and proposal for a Site-wide active LFG extraction systems for all open space areas of the site, it was decided that a re-evaluation of LFG data be performed to ensure the appropriate mitigation systems were selected. An exposure assessment and additional emissions modeling effort was also undertaken to provide additional Site data.

4.1 Additional Data Collection

The following data was gathered through monitoring, investigations, and computer modeling to provide additional information regarding LFG conditions at the Site.

4.1.1 Methane Monitoring Reports (2009 through present)

Monthly methane monitoring reports are prepared by American Environmental Services, Inc. (AES). From October 2009 to May 17 2012, AES monitored:

- Ambient weather conditions
- Methane, oxygen, hydrogen sulfide, and carbon monoxide levels in on-site methane monitoring wells, perimeter methane monitoring wells, and off-site semi-permanent methane monitoring points
- Groundwater levels in piezometers adjacent to the vent trench

As of May 23, 2012, AES began monitoring the expanded parameters requested by NYSDEC in their January 3, 2011 letter. The following parameters are now being monitoring in addition to those above:

- Well pressure
- Well temperature
- Ambient relative humidity

4.1.2 Walsh Review of Site Investigations (2010)

Walsh reviewed TRC's subsurface investigation and extraction test in May and August of 2010 (Walsh 2010a, b). The review reported that the results of the TRC testing were consistent and expected based on the age and character of the landfill. Due to low pressure readings throughout the Site and methane levels below the LEL in most shallow monitoring points, Walsh concluded that a site-wide

active venting system would not be necessary to achieve safe conditions for golf course users or workers.

Based on the Walsh reviews and as requested by NYSDEC (NYSDEC 2010), TRC completed a flux box sampling in October 2010 in order to more accurately determine surface methane emission rates at the Site. The results of the flux box sampling were reported by TRC as an insert to the Supplement to the 2009 Engineering Report.

4.1.3 TRC Flux Box Testing (2010)

The TRC flux box and ambient air sampling event in October 2010, in accordance with the sampling plan submitted to NYSDEC, is included as Appendix B of EEEPC's November 2010 Landfill Gas Report. A flux box is a container of known volume which is used at the surface of the landfill for the measurement of LFG emissions and concentrations. A total of 30 test locations were sampled: 19 in the area of the golf course and associated facilities, three each in the waterfront and community parks, and five at the LFG vent trench. Results of this sampling were as follows:

- Methane was not detected in any of the flux box samples.
- No sulfur compounds were detected above the detection limit in any flux box or ambient air sample.
- Five compounds were found at concentrations higher than the NYSDEC Annual Guideline Concentrations (AGCs): benzene, carbon tetrachloride, methylene chloride, tetrachloroethylene, and trichloroethylene. Due to the concentrations found in the ambient air samples, it was concluded that these compounds were likely from off-site urban environment sources. Three of the five compounds warranted further evaluation using the NYSDEC Area Source Method. The results indicated on-site annual impacts would be less than 1.5% of the AGC, and off-site impacts less than 0.25% of the AGC for tetrachloroethylene, trichloroethylene, and methylene chloride.

4.1.4 Community Park Vent Monitoring (2011)

In June 2011, EEEPC conducted a monitoring event of the twelve (12) passive LFG vents previously installed at Community Park (EEEPC 2011b). Vent testing was used to identify and quantify the emission rates of LFG constituents from the vents. Air samples were collected from each vent and analyzed to determine the concentration of methane, carbon dioxide (CO_2), oxygen (O_2), nitrogen (N_2), volatile organic compounds (VOCs), and sulfur compounds. The LFG flow rate for each vent pipe was also measured.

The field data and analytical results were used to estimate hourly and annual emission rates of chemical constituents from the LFG vents. Modeled ambient air concentrations resulting from the estimated emission rates were found to be below NYSDEC short-term and annual guideline concentrations (SGCs/AGCs).

4.1.5 LFG Fingerprinting Investigation (2011)

In an effort to supplement existing data regarding the source of offsite methane detections in the vicinity of Buttrick/Schley avenues, EEEPC conducted an investigation in June 2011, in accordance with a May 2011 Fingerprinting Protocol (EEEPC 2011b).

The following wells/probes were included in the investigation:

- Offsite monitoring points 9 and 10, located on Buttrick Avenue between Randall and Schley avenues;
- Perimeter monitoring well, MW-0, located in the vicinity of Buttrick Avenue; and
- Onsite monitoring wells MW-13 and MW-19.

The fingerprinting protocol recommended that methane measurement be conducted in interior monitoring well MW-4R. However, this well was previously decommissioned and as a result, measurement was conducted in well, MW-13, which is also an onsite monitoring well.

Each location was purged according to procedures outlined in the protocol and then monitored for methane concentration. None of the locations yielded methane concentrations sufficient for isotopic gas analysis, a minimum of 1% methane by volume. As a result, LFG samples could not be collected for isotopic fingerprinting analyses.

4.1.6 Landfill Gas Generation Modeling

Using LandGEM Model Version 3.02, EEEPC (2010) modeled emission rates for the Site in order to compare to the flux box sampling and previous emission rates estimated by TRC in 1999.

The LandGEM model generates emission estimates during landfill operation and for the years following closure. For use in the model, the waste acceptance rate at the site and the years of waste acceptance were based on site characteristics and historical data. Conservative Clean Air Act (CAA) municipal solid waste landfill defaults were used for the remaining input parameters.

- Years of waste acceptance: 1940 to 1959
- Annual waste acceptance rate: 319,566 megagrams per year (Mg/yr) assumed to be equal from 1940 to 1959
- Methane generation rate: 0.05 yr^{-1}

- Potential methane generation capacity: 170 cubic meters per megagram (m^3/Mg)

- Methane content: 50% by volume.

LandGEM generated the following results, predicting methane emissions from the start of waste acceptance in 1940 through the year 2040:

- The 1999 model year emissions rate was calculated to be 3,268 Mg/yr, equivalent to 0.00003 cfm per square foot (SF) a rate similar to the 1999 TRC estimate of 0.00004 cfm/SF calculated using EPA Method AP-42.

- For the model year 2010, the results yielded a methane emission rate of 1,885 Mg/yr, or 2,078 tons per year (tons/yr) in 2010. This is equivalent to an emission rate of 0.00002 cfm/SF or slightly less than 1 cfm/acre.

- LandGEM also projected methane generation calculations up to 30 years into the future, projecting that by 2040 emissions would be reduced to 25% of current day emissions (420 Mg/yr, approximately 0.000005 cfm/SF). Overall, methane generation shows a consistent decrease over time.

- The emission rate projected by LandGEM in 2010 is just a fraction of the peak estimated emission rate of 22,970 Mg/yr (0.00023 cfm/SF), predicted for the year 1960.

Like other landfill sites, the rate of LFG production at the Site is affected by waste composition, waste volume, moisture content, age, and landfill geometry. Field measurements have shown that the LFG produced at the Site predominantly contains methane and carbon dioxide, with small amounts of nitrogen, oxygen, water vapor, sulfur, and other contaminants. Some NMOCs, which can also be classified as hazardous air pollutants (HAPs) were reported at much lower quantities.

Section 4.2 presents an assessment of the lateral and vertical extents of LFG within the MSW and the current shaping layers, both in the interior and at and around the perimeter of the Site. Figures 4-1 and 4-2 are conceptual cross sections illustrating the lateral and vertical extents of methane at the Site. Figure 4-3 shows methane concentrations in samples collected within the Site interior, along the Site perimeter, and at off-site locations.

Also included is an assessment of the risk of exposure to LFG both on and at the perimeter of the Site. The exposure assessment includes a comparison of LFG concentrations to applicable New York Codes, Rules, and Regulations (NYCRR) Part 360 standards.

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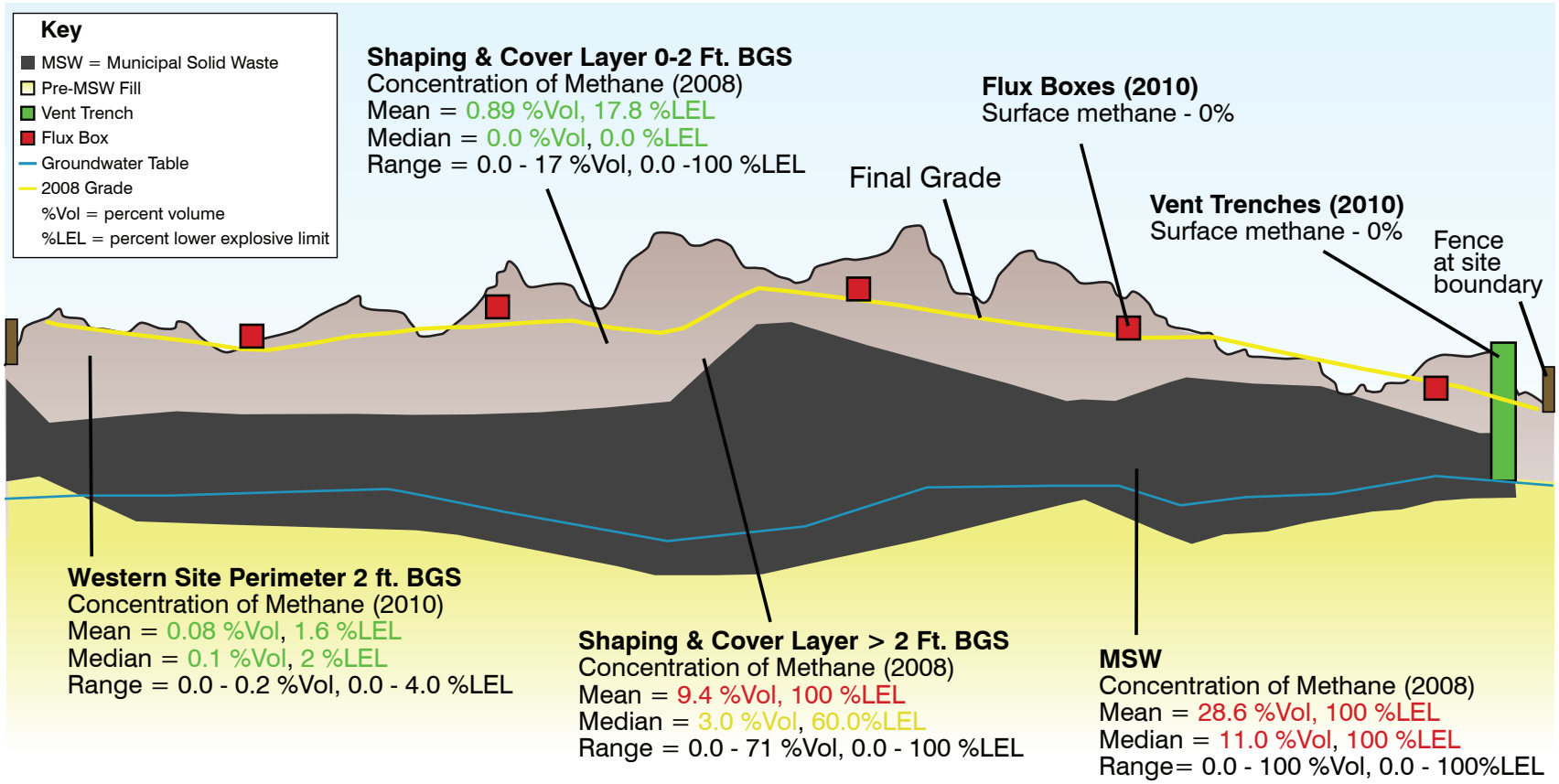

2010 Data are from the E & E Landfill Gas Report dated November 2010

2008-2009 Data are from the TRC Supplemental Landfill Gas Investigation dated February 2009

Figure 4-1 Conceptual Site Cross-Section & Methane Concentrations

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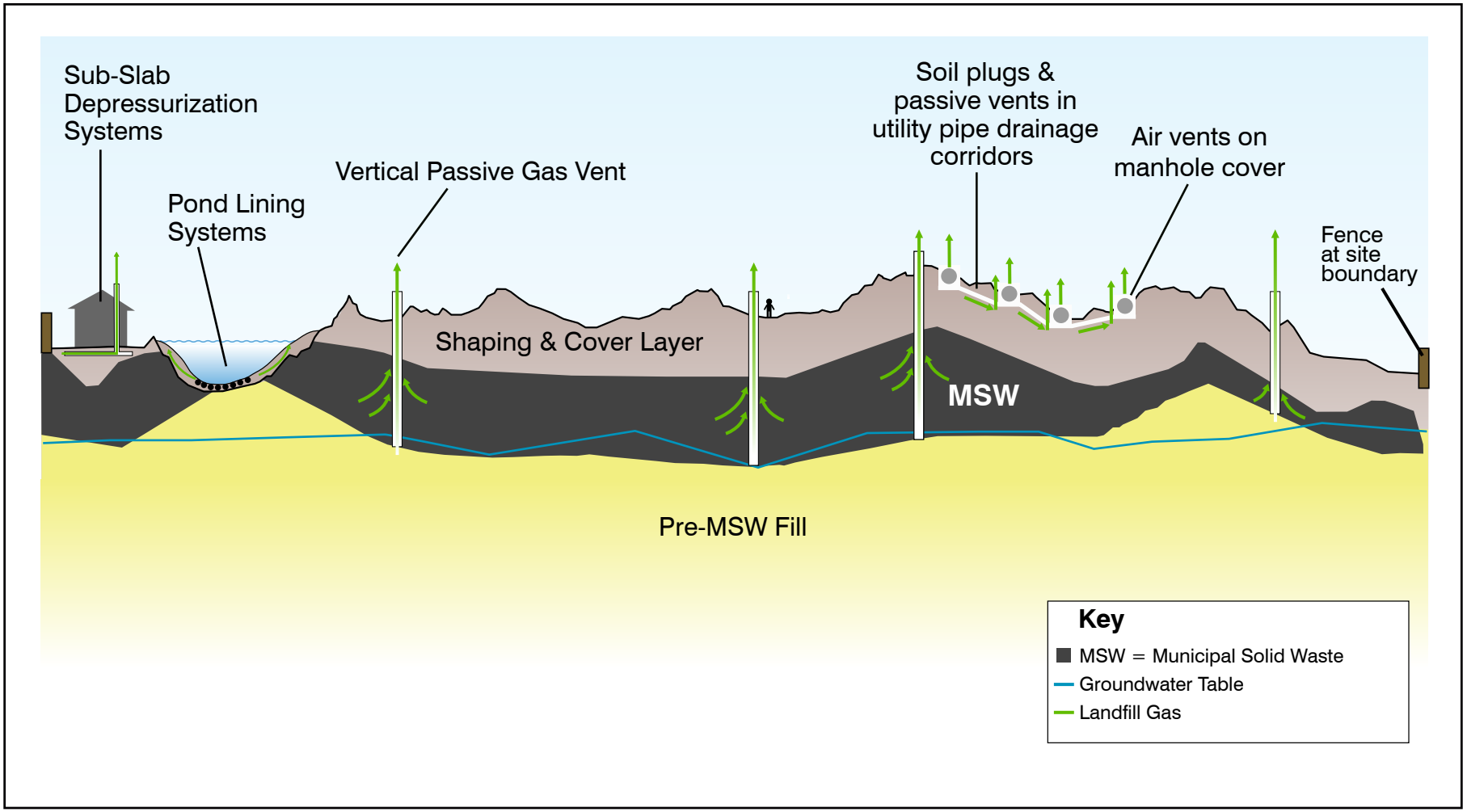

Figure 4-2 Conceptual Site Cross-Section & Landfill Gas Control Systems

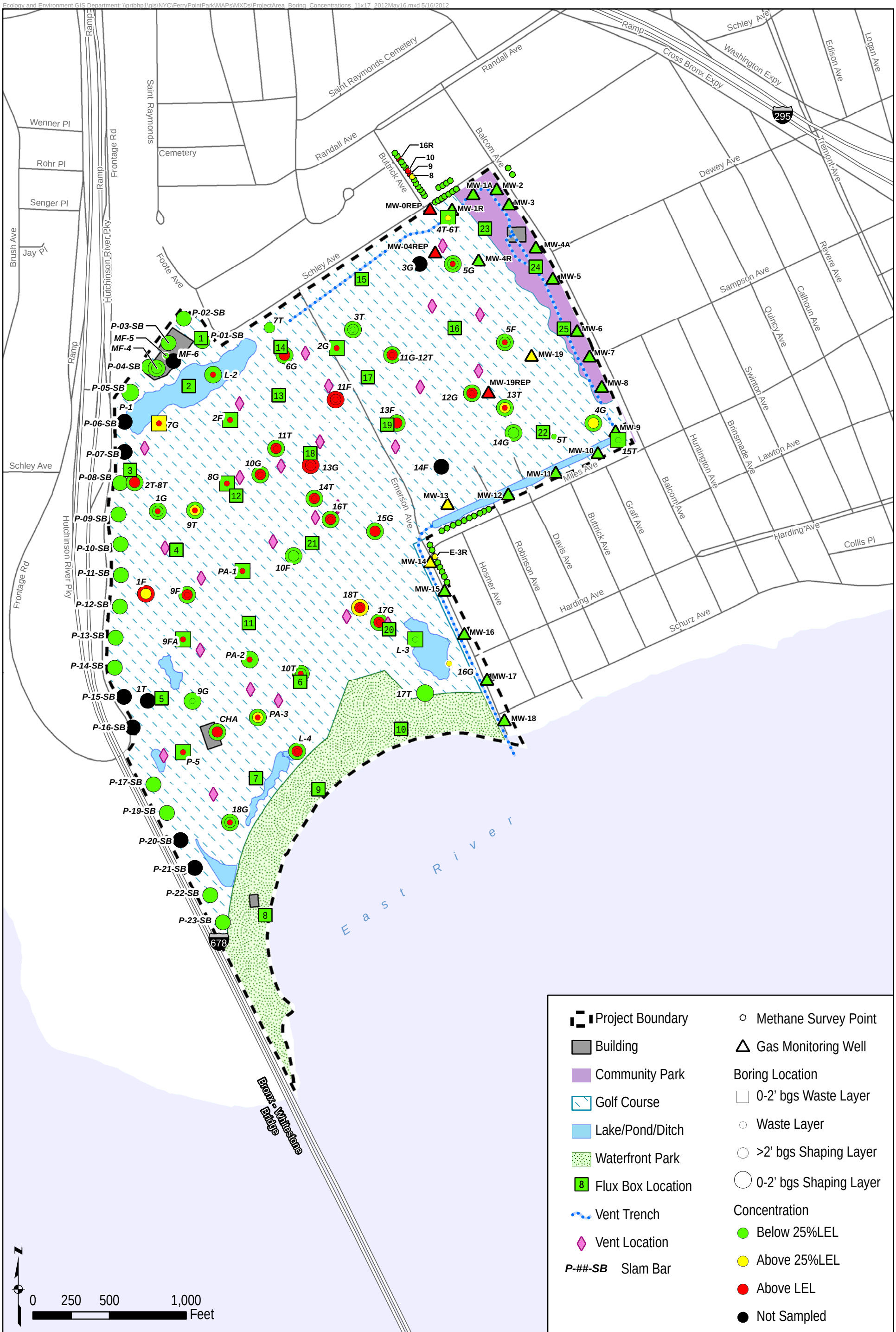

Figure 4-3:
Methane Concentrations in Landfill Gas in Site Interior, Along Site Perimeter, and at Offsite Locations

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Notes: 1. Data are from the TRC 2009 Supplemental Landfill Gas Investigation, the TRC 2009 Pre-Extraction Pilot Test Subsurface Investigation, and the TRC 2010 Emissions and Air Quality Testing.
2. Color coding for monitoring wells and methane survey points based on data from a 2 year period between January 2009 and January 2011. Color coded as yellow if 2 or more meausurements equal or exceed 25% LEL and as red if 2 or more measurements equal or exceed LEL.

4.2 Evaluation of LFG Data

4.2.1 Occurrence of LFG in the MSW Layer

4.2.1.1 Site Interior

Historical LFG Operations Monitoring Data

Since 2000, field methane measurements have been collected from two interior gas wells; MW-4/4R and MW-19 (see Figure 4-4, which shows temporal trends for these monitoring points from 2000 to 2011). Between 2008 and 2010 these measured concentrations had declined from 100% of LEL to non-detect levels.

Due to concerns raised by NYSDEC regarding the condition of the wells, DPR submitted a plan to abandon the existing onsite gas wells and install two replacement gas wells within the Site's interior. Concurrently, DPR requested that gas well MW-0 be abandoned and a replacement gas well installed within the Site's interior. This request was made due to a suspected off-site source(s) of methane in the vicinity of this location (AKRF 2002; TRC 2005a, 2009a). Monitoring at the approved replacement locations began in February 2012. Measured methane concentrations in the three interior replacement gas wells (see Appendix C), is consistent with LFG data from samples collected within the MSW layer at the Site between 2008 and 2009, which indicated methane concentrations above the LEL.

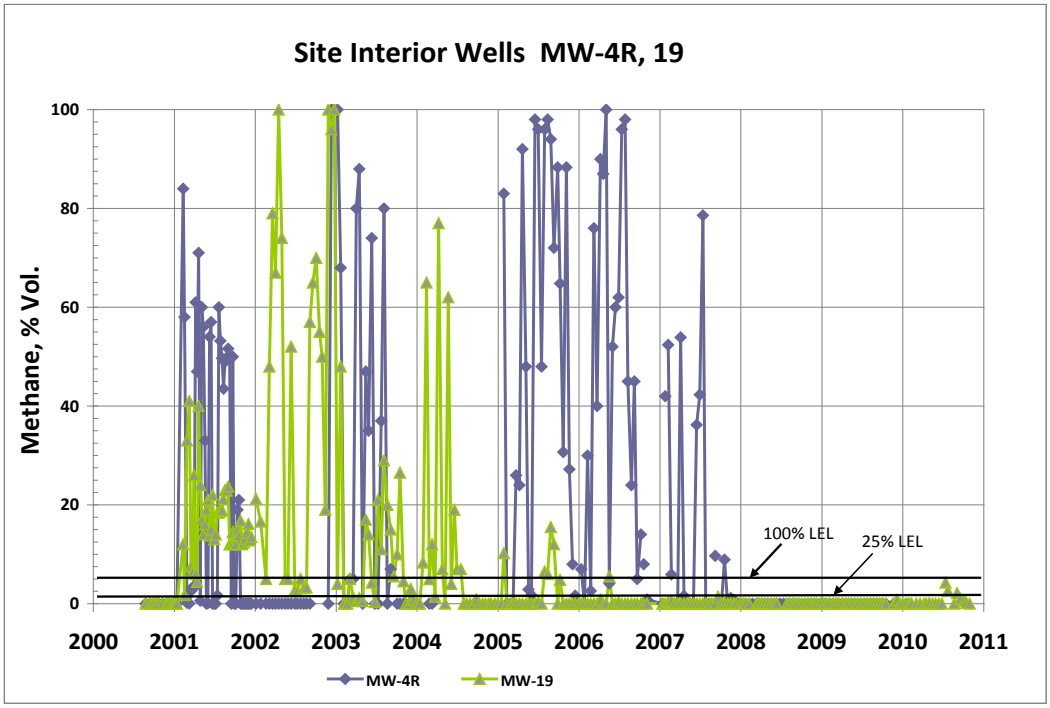

Figure 4-4 Temporal Trends in Methane Concentrations at Site Interior Wells, 2000 to 2011

Recent LFG Investigation Data

Pre-Extraction Subsurface Investigation. Methane concentrations were measured by TRC at on-site borings in 2008 and 2009 (see Figure 3-2 for boring locations).

Methane was measured at concentrations exceeding 25% LEL in 82 of 135 samples and exceeding the LEL in 73 of 135 samples within the MSW layer. Mean and median of the measured methane concentrations were both greater than the LEL. Methane concentrations exceeding 25% LEL were measured in approximately two-thirds of the samples collected from the MSW layer, which supports the premise that methane is not present in specific areas but appears to exist in the MSW layer throughout the interior of the Site. However, measured data in the shaping layer, overlying the MSW layer, and at the surface indicates that concentrations decline rapidly as gas migrates upward toward the surface (see Sections 4.2.2 and 4.2.3).

LFG Extraction Test. TRC utilized EPA Method 2E in their 2009 extraction testing. EPA Method 2E was historically used to determine LFG flow (EPA 2000). This method states that the purpose of short-term testing is to determine the "maximum vacuum that can be applied to wells without infiltration of ambient air into the landfill." In 2003, an article in the *Journal of Air & Waste Management* (Walter 2003) discussed fatal flaws that existed with this method for measuring landfill gas generation rates. In addition, TRC's extraction pilot test diverged from the recommended EPA method, which identifies ambient air intrusion by percent volume of nitrogen. TRC identified ambient air intrusion by percent volume of oxygen. TRC determined the radius of influence based on differential pressures at the surrounding test wells, yet EPA Method 2E specifies determining the radius of influence based on absolute pressures under static and active extraction conditions.

More importantly, because of the atmospheric intrusion noted during the extraction test, the LFG extraction rate used by TRC during the pilot testing would be significantly higher than the actual LFG generation rates within the area of the pilot test. If LFG generation rates for the entire Site are based on the pilot test results, the resulting estimate would grossly over-estimate actual LFG generation.

4.2.1.2 Site Perimeter

Historical LFG Operations Monitoring Data

Since 2000, biweekly field methane measurements have been collected from wells located next to the passive vent trench along the perimeter of the Site (see Figure 3-2). Measured methane concentrations have declined from more than 100% of LEL to non-detect levels with a few exceptions (see Figure 4-5 for temporal trends in selected perimeter wells from 2000 to 2011). This significant decline in methane concentrations in perimeter wells demonstrates the effectiveness of the perimeter trench in venting LFG, along with an overall decline in LFG gen-

eration. However, a number of monitoring locations were missing valves during this time, which may have impacted the data collected.

A suspected offsite source of methane in the vicinity of MW-0 located close to the intersection of Buttrick and Schley Avenues, outside the northeastern corner of the Site) was attributed to elevated methane readings at this location (see Section 4.2.1.3 for further discussion). MW-0 has now been abandoned and relocated within the Site's interior as discussed in Section 4.2.1.1 above.

Gas Monitoring Well Repairs

During their routine inspections of the Site, the IEM noted out that many of the perimeter monitoring wells were missing valves and caps, or otherwise needed repair. DPR performed an inspection of all perimeter wells, and performed the necessary repairs, or installed replacement wells as necessary to bring them into compliance with the current Part 360 Permit.

Monitoring following the repairs began in February 2012 (see Figure 4-6 for temporal trends in selected perimeter wells. The new bi-weekly data from the site perimeter wells shows that methane concentrations remained consistent with concentrations measured at these wells between 2008 and 2011 (see Appendix C for methane monitoring data).

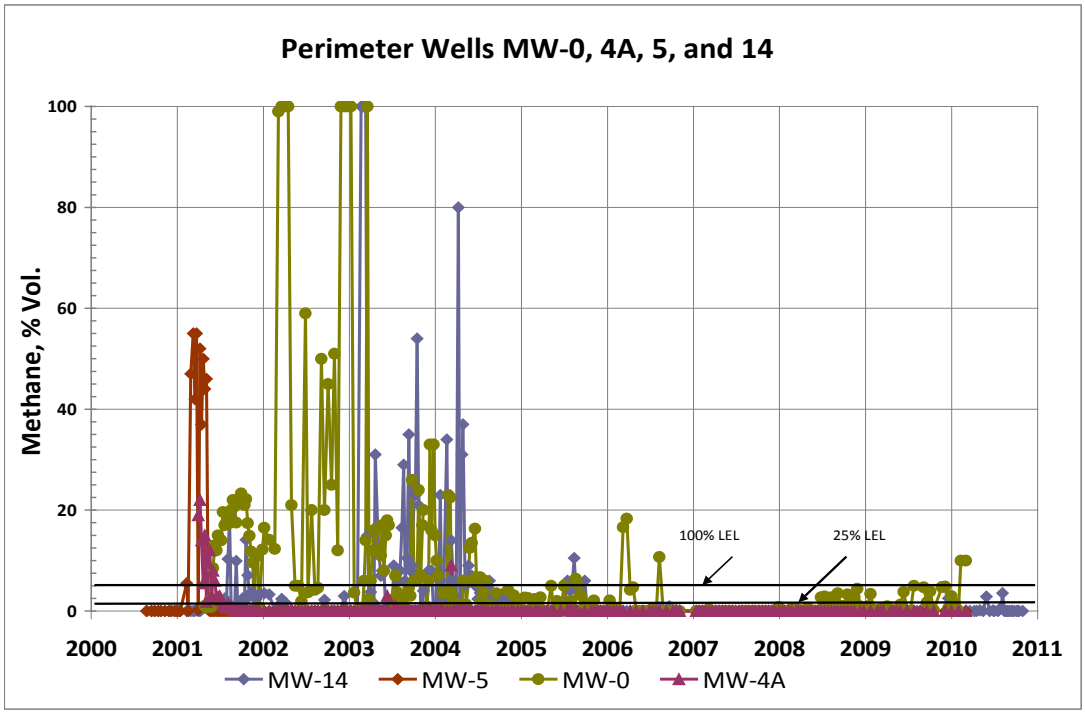

Figure 4-5 Temporal Trends in Methane Concentrations in Site Perimeter Wells, 2000 to 2011

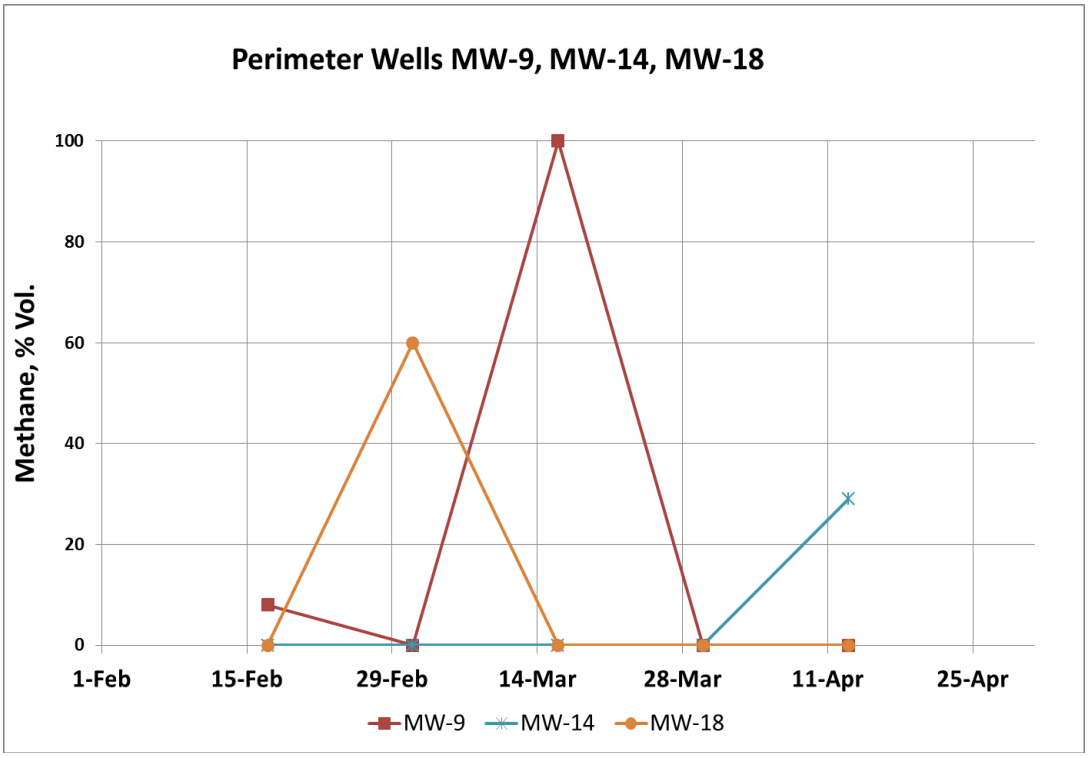

Figure 4-6 Temporal Trends in Methane Concentrations in Site Perimeter Wells, Biweekly Sampling Events 2012

The TRC 2008 and 2009 investigations (TRC 2009c) did not measure methane in the MSW along the site perimeter.

Recent Community Park Vent Data

Sampling was performed at 12 vents within Community Park in June 2011, using the procedures established in the *Landfill Gas Vents Sampling and Analysis Protocol*,(EEEPC 2011c). The protocol summarized the procedures used to identify and estimate the emission rates of air pollutants as well as procedures to conduct an air quality model analysis to identify and compare potential impacts associated with these emissions. The protocol was approved as noted by NYSDEC on March 30, 2011. The June 2011 data reported no measurable gas flow in the Community Park vents. The presence of methane was detected in only 3 of the 12 vents sampled, with detections in the three vents ranging from 1.5 to 7.3% by volume (7.5% LEL to >100%LEL). In the 9 remaining vents, concentrations were below laboratory reporting limits (EEEPC 2011b).

4.2.1.3 Off-site Areas on Schley, Buttrick, Balcom, and Emerson Avenues

Historical LFG Operations Monitoring Data

Since the early 2000s, field methane measurements have been collected from probes, located on Schley, Buttrick, Balcom, Miles, and Emerson avenues (see Figure 3-2). Measured methane concentrations have been lower than the LEL in

the Schley, Balcom, Miles, and Emerson Avenue probes since 2002, indicating absence of significant methane at these off-site locations.

Methane concentrations in the probes on Buttrick Avenue, however, have been higher than the LEL in several probes (see Figures 4-7 and 4-8). The presence of elevated methane levels in these probes indicates an off-site source of methane, separate from landfill activities at the Site. This is further discussed below under the heading "Gas Monitoring Well Repairs."

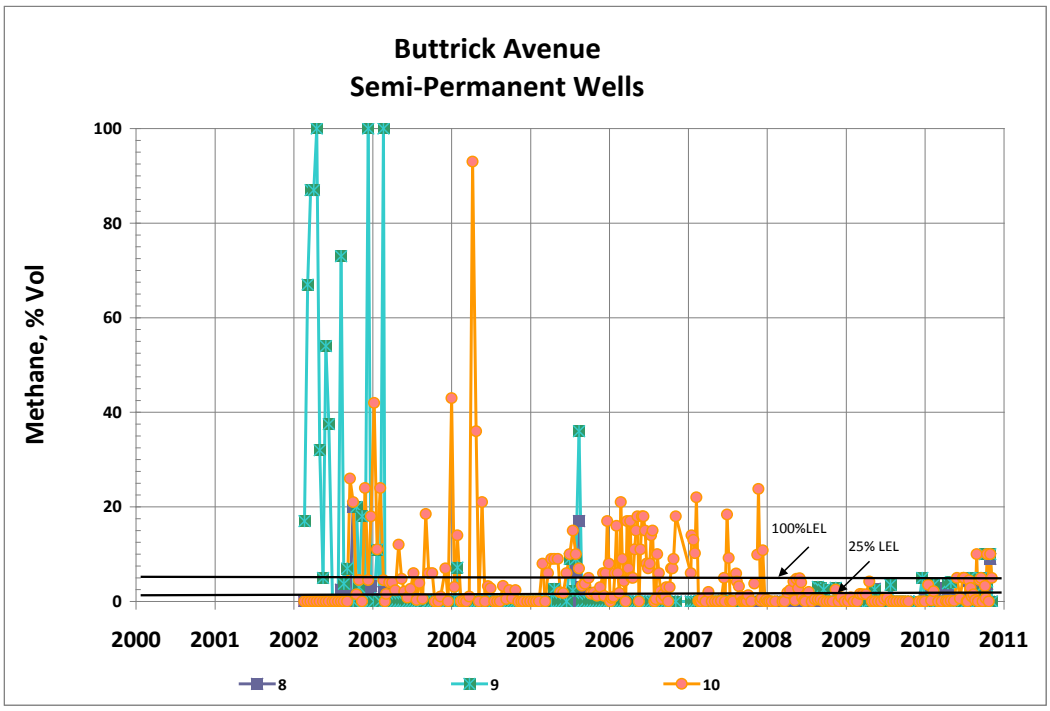

Figure 4-7 Temporal Trends in Methane Concentrations in Off-site Probes on Buttrick Avenue, 2000 to 2011

Gas Monitoring Well Repairs

As discussed in Section 4.2.1.2, off-site monitoring locations were also subject to repairs based on the IEM's routine inspections. DPR has performed the necessary repairs, or installed replacement wells as appropriate for the majority of monitoring locations.

Monitoring following these repairs began in February 2012 (see Figure 4-8). The new bi-weekly data showed that methane concentrations remained consistent with concentrations measured at these wells between 2008 and 2011.

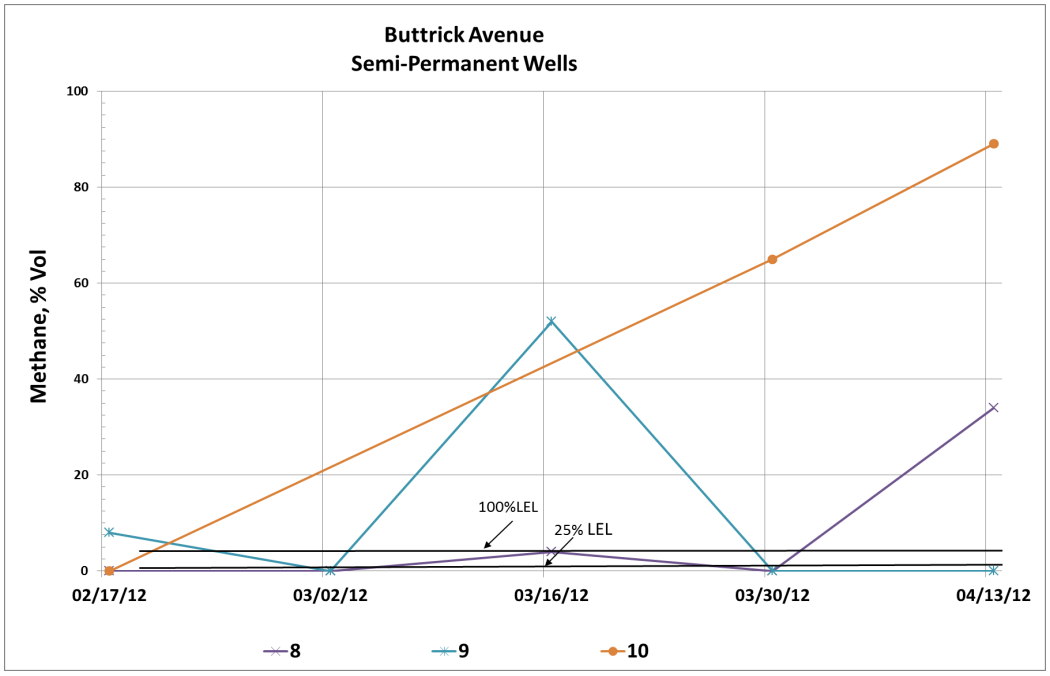

Figure 4-8 Temporal Trends in Methane Concentrations in Off-site Probes on Buttrick Avenue, Biweekly Sampling Events 2012

The following findings from previous investigations/LFG monitoring provide evidence for the presence of an offsite source of methane in the Buttrick Avenue area:

1. The February 2002 AKRF Methane Monitoring Study in which two test pits were excavated in areas of elevated methane detections along Buttrick Avenue in September 2001 identified presence of garbage at this location.
   a. According to the report: "*Garbage was identified in the material excavated and included wood, paper, cloth, metal cans, plastic bottles, glass, ceramic, asphalt, foam, and shoe soles*".

2. The 2002 AKRF study also confirmed the presence of soils rich in organic material, consistent with the reported presence of historic marshlands in this area.
   a. To confirm the presence of historic marshlands, soil samples from the excavations from the test pits in this area were sent for laboratory analysis and AKRF reported that "the laboratory results indicate the soils are rich in organic material". These results support the presence of a former marsh, which was likely to contain organic-rich sediments.

3. During the sampling conducted following the installation of the perimeter vent trench, AKRF concluded the following in their 2002 study:
   a. *"because there has been little change in the elevated methane levels on Buttrick Avenue since the installation of the landfill gas venting trench, garbage and organic rich materials were found in the test pits excavated*

in this area, and the area is located over a filled marshy area, the source of methane on Buttrick Avenue is offsite".

4. Further, as discussed in the TRC 2005 and 2009 engineering reports (TRC 2005a, 2009a), this area was a former tidal marsh subject to potential filling with MSW prior to 1945. According to TRC, organic-rich marsh deposits and fill possibly containing MSW are the likely sources of methane in this area. (Figure 3-1 shows the approximate MSW fill progression at the Site and surrounding historic waterbodies and marshlands.)

In the TRC 2008 and 2009 investigations (TRC 2009c), samples for methane measurement were not collected at off-site locations.

4.2.2 Occurrence of LFG in the Shaping Layer

4.2.2.1 Site Interior

Methane concentrations were measured by TRC in the shaping layer at on-site borings drilled in 2008 and 2009 (see Figure 3-2). Samples were collected from within the top 2 feet of the shaping layer and from 2 to 6 feet BGS, also within the shaping layer (TRC 2009c).

Methane concentrations observed in the shaping layer were lower than those in the underlying MSW layer (see Figure 4-3). More importantly, methane concentrations attenuated from the bottom to the top of the shaping layer; concentrations in the top 2 feet are significantly lower than those measured from 2 to 6 feet BGS.

The mean and median values for samples within the top 2 feet of shaping layer were 17.84% LEL and 0.0% LEL, respectively. Samples collected between 2 and 6 feet BGS resulted in a mean and median of 100% LEL and 60% LEL, respectively.

4.2.2.2 Site Perimeter

During the 2008 and 2009 investigation, TRC measured methane concentrations in the shaping layer in shallow, temporary monitoring points installed along the western perimeter of the Site (see Figure 3-2). Samples were collected from within the top 2 feet of shaping material (TRC 2009c).

The mean and median values of methane concentrations in these samples were 1.6% LEL and 2% LEL, respectively. The absence of methane concentrations above the LEL in these perimeter monitoring points demonstrates the rapid attenuation that occurs in the westward direction. These findings indicate that mitigation measures are not deemed necessary along the western perimeter of the Site.

4.2.3 Occurrence of LFG at the Surface

At 30 locations, flux box and ambient air testing was conducted by TRC in 2010, for field measurements of methane and laboratory analysis of VOCs (see Figure 3-2). Monitoring and analysis was performed using the procedures established in the "Flux Chamber Testing Program Work Plan", included as Appendix B to the

Ferry Point Landfill Gas Report (EEEPC 2010). The work plan summarized the flux chamber sampling and analysis techniques that would be used to determine surface emission rates from the landfill. The results of the analysis were used to develop total hourly and annual emission rates. These rates were used for the analysis of potential impacts to on site and off site receptors for methane and hazardous air pollutants (HAPs).

Methane was not detected in field measurements in any of the sampling locations (EEEPC 2010). The absence of methane in the flux box samples demonstrates a rapid attenuation of methane occurring in the upward direction from the MSW layer through the shaping layer and to the surface. It provides further evidence that methane is not present at measurable rates at the surface of the Site.

Low levels of select VOCs were reported in some flux box samples. However, the concentrations were either below NYSDEC acceptable standards or similar to background concentrations reported in ambient air samples (EEEPC 2010).

4.3 LFG Emission Rates

4.3.1 Methane Emission Rates

The surface emission rate of methane at the Site was estimated using LandGEM Version 3.02 (EEEPC 2010 [see Appendix B]). Because the LandGEM model is intended to be used to design gas collection systems, it typically overpredicts LFG generation. CAA defaults were used in the model, which also yields conservative emission estimates.

As discussed in Section 4.1.6 the LandGEM model estimated a 2010 methane emission rate of 1,885 Mg/yr (or 2,078 tons/yr). This corresponds to an average hourly emission rate of 0.237 tons/hr (based on 24 hours/day and 365 days/year). The model predicts substantial reductions in each subsequent year, ranging from a predicted rate of 2,078 tons/yr in 2010 to a rate of 463 tons/yr in 2040. This represents an approximate 75% decrease in methane production over time.

For comparison, in 1999, TRC estimated a methane emission rate of 0.00004 cfm/SF, calculated using the EPA Method AP-42. The LandGEM modeling performed in 2010 calculated 1999 model year emissions rate equivalent to 0.00003 cfm/SF, which is nearly the same value as the TRC AP-42 estimate.

4.3.2 HAP and Other VOC Emission Rates

Flux Box Measurements

The emission rates of HAPs and other reported VOCs in the LFG from the Site were estimated using the average concentration of each compound in the flux box samples. The average concentration was calculated only from samples with compound concentrations over the detection limit. This methodology produces a very conservative (i.e., biased high) emission rate as it ignores samples with results below detection limits. The assumptions and the approach used to model the

emission rate are presented in EEEPC's Landfill Gas Report, Ferry Point (November 2010).

NYSDEC's guidelines for estimating annual impacts, when applied to the calculated emission rates, resulted in ambient air concentrations below NYSDEC's acceptable thresholds (EEEPC 2010).

Community Park Vent Measurements

The emission rates of VOCs and sulfur compounds in the community park vents were estimated by multiplying an assumed vent flow rate (1 cm^3/sec was used because no measurable flow was observed) and reported concentration of each constituent. Emission rates were below levels that would result in an adverse impact to public receptors in the vicinity of the vents (EEEPC 2011b).

4.4 Exposure Assessment

4.4.1 Criteria

Methane

NYCRR Part 360 criteria, which requires that combustible gas concentrations not exceed 25% of the LEL in structures on-site and off-site and not exceed the LEL at or beyond the Site boundary, were used for comparison with methane concentrations measured within and along the perimeter of the Site.

HAPs and Other VOCs

NYSDEC SGCs and AGCs are screening-level values used to determine the appropriate environmental rating of air pollutant emissions. SGCs are chosen to protect the general population from adverse acute one-hour exposures; AGCs are chosen to protect against adverse chronic exposure and are based upon the most conservative carcinogenic or non-carcinogenic annual exposure limit. SGCs and AGCs are used to assess impacts on ambient air caused by an emission source.

4.4.2 Comparison of Flux Box & Community Park Testing Results with Exposure Criteria

Methane

Methane was not detected in the flux box samples collected within the interior of the Site, indicating that methane is not emitted at the ground surface at measurable rates. Absence of methane at the surface indicates that NYCRR Part 360 criteria are met.

Also both mean and median concentrations of methane in the top 2 feet of the shaping layer within the interior of the Site did not exceed 25% LEL, as would be required by NYCRR Part 360 for on and off-site structures.

Methane concentrations in the perimeter wells, except in MW-0, located along the existing vent trench, abutting Emerson, Miles, Balcom, and Schley avenues were below the LEL, as required by NYCRR Part 360. Methane concentrations were

also below the NYCRR Part 360 criteria for samples collected along the western perimeter.

Methane concentrations in the probes on Buttrick Avenue, located close to MW-0, have been higher than 100% LEL. As discussed in Section 4.2.1.3, the presence of elevated methane levels in these probes along with the nearby organic-rich marshland and pre-1945 use of the area for MSW fill indicates an off-site source of methane that likely contributes to elevated levels at MW-0.

VOCs

Flux Box Measurements. Of the four VOCs detected in flux box samples in the 2009 TRC investigation, benzene was reported below the concentrations found in the ambient samples, which are representative of background concentrations. Three other VOCs— methylene chloride, trichloroethylene, and tetrachloroethylene—concentrations in flux box samples were roughly equivalent to and/or slightly greater than those in the ambient samples (EEEPC 2010). Potential impacts on ambient air as a result of emission of these VOCs at the Site were assessed by EEEPC, and the results indicated no exceedences of NYSDEC standards (EEEPC 2010).

Carbon tetrachloride was detected in an ambient sample but not in the flux box sample. Because of its reported widespread use in operations within urban areas and its absence in Site flux box samples, the Site is not considered to be a source of carbon tetrachloride in ambient air.

Community Park Vent Measurements. Recent testing indicates that the VOC emissions from the 12 community park vents would result in ambient air concentrations that are well below NYSDEC standards, indicating an absence of impacts above public exposure thresholds in the vicinity of the vents (EEEPC 2011b).

In an email dated July 1, 2011, NYSDEC confirmed their acceptance of these tests and indicated that emissions from the vents pose no health impact to the public using the park.

4.5 Conclusions

The following conclusions were drawn from the evaluation of the LFG data collected and modeling conducted to date at the Site:

- The reported data indicates the presence of methane within the MSW, as expected from a landfill of its age. Methane levels at the surface were below regulatory limits for structures within the interior of the Site (below 25% LEL). Methane levels in the subsurface were below regulatory limits at the perimeter of the Site (below LEL).

- At the current landfill surface, concentrations of other LFG compounds, primarily VOCs, were either below their acceptable thresholds or similar to background levels measured in ambient air samples.

- Modeled ambient air concentrations using VOC concentrations reported in the flux box samples demonstrated no reportable impact of VOCs on ambient air at the Site.

- The LandGEM model, which predicts a conservative estimate of LFG generation rates, shows that methane emissions from Ferry Point do not contribute significantly to greenhouse gas (GHG) emissions. The estimated 2010 annual methane emissions from Ferry Point are approximately 0.048 million tons of CO_2-equivalent emissions.

- No measurable LFG flow was measured in recently tested Community Park Vents.

- Recent testing of the vents at the Community Park indicate that emissions for VOCs and sulfur compounds from the LFG vents that would cause short-term and annual impacts that are well below the SGCs and AGCs. The impacts are several orders of magnitude less than these guideline concentrations, which is indicative of the limited emissions from the LFG that is present in the subsurface.

- Subsurface MSW and historic marshlands in the Buttrick Avenue area have been identified as the likely offsite source(s) of elevated methane measurements in LFG probes in this area.

LFG does not exceed regulatory and health-based thresholds at the surface, which indicates that LFG generation within the waste occurs at low levels, consistent with the age of the landfill. Therefore, active LFG extraction systems at the Site are not warranted.

However, methane concentrations exceeded the LEL in 73 out of 135 samples collected within the subsurface MSW layer during the 2008/2009 TRC subsurface investigation. Therefore, passive venting systems are proposed for the open areas of the Site. Active depressurization systems are recommended to be placed under building footprints to minimize the potential for LFG to collect underneath structures.

5 Landfill Gas Management Approach

5.1 Summary of LFG Data and Planned LFG Control Measures

5.1.1 Summary of Data

Site Interior

The MSW layer in the interior of the golf course and community park portions of the Site ranges from 4 feet thick to 47 feet. Concentrations of methane, the primary component of LFG, are elevated in the MSW layer, with both mean and median concentrations above the LEL. However, as the LFG migrates upward toward the ground surface through the shaping layer, methane concentrations decline rapidly. Concentrations in samples collected at the surface in flux boxes were below the instrument's detection.

Site Perimeter

Along the northern and eastern perimeters of the Site, where the perimeter vent trench is located, methane concentrations have declined significantly. As described in Section 3.3.4, groundwater levels measured during biweekly piezometer monitoring events have been observed to be above the vent trench bottom depth since 2005. This demonstrates the effectiveness of the vent trench in controlling the migration of LFG in this area. Along the western perimeter of the Site, methane concentrations in the upper section of the shaping layer are below the LEL, thus precluding the need for placing LFG control measures in this area.

5.1.2 Planned LFG Control Measures

A description of the planned LFG control measures is included below and the type of LFG control measures to be installed for each Site feature is presented in Table 1-1 (see Figure 5-1 for a conceptual layout of the LFG control measures).

Site Interior

Methane generation, as shown in the 2010 LandGEM modeling, is currently estimated at approximately 1 cfm/acre or less, a very low rate that correlates well with the 1999 TRC AP-42 modeling. Elevated levels of subsurface methane are expected to decrease over time and, as described in Section 2, methane that exits the landfill via the permeable soil cover into the open atmosphere will quickly diffuse to negligible levels. Moreover, elevated subsurface levels do not result in

unsafe levels at the landfill's surface, as demonstrated by the lack of methane detection in the flux box measurements taken by TRC in October 2010.

In order to provide adequate ventilation to enclosed structures at the site, the migration of LFG into occupied structures or structures where there is an ignition source (such as electrical connections) needs to be prevented or minimized (to at or below the regulatory-prescribed levels). Thus, all on-site buildings will have an active sub-slab depressurization (SSD) system (see Section 5.3).

Although the data do not indicate the need for LFG control within the site interior (other than within enclosed structures), methane concentrations exceeded the LEL in 73 out of 135 samples within the MSW layer during the 2008/2009 TRC subsurface investigation. Hence, a passive venting system consisting of venting wells screened across the MSW layer will be installed as a precautionary measure (see Figure 5-1 and Appendix A for a layout of the venting system, and Section 5.2 for a design description). Figure 5-1 currently shows the location of passive vent wells within the golf course portion of the Site.

Also, methane was not present in the upper section of the shaping layer above the NYCRR Part 360 limit (25% LEL) for on-site structures. During the recent 2008/2009 TRC investigations, less than 10% of samples collected in the upper 2 feet of the Site subsurface were reported to have concentrations exceeding this limit. None of these sample locations, where methane was reported above the 25% LEL, were below the planned footprint of proposed onsite structures. Conservatively, an SSD system is proposed for installation underneath the footprints of the structures as a precautionary measure to allow the LFG to be directed to and vented at the rooftops. This design will mitigate the threat of exposure to building occupants and preclude explosive conditions. Refer to Figure 5-1 for locations of the planned buildings where a SSD system is planned and Section 5.3 for a design description.

Risk management measures to control LFG under subsurface features, including utility corridors, ponds, and lakes in the interior of the Site are described in Section 5.4.

Site Perimeter

Because passive venting has been effective in reducing methane concentrations along the eastern and northern perimeters of the Site, the existing vent trench will continue to operate in accordance with the existing program requirements outlined in the Part 360 permit (see Figure 5-1).

LFG control along the western perimeter of the Site, where methane concentrations are below the LEL is not planned The East River will provide an effective block to off-site migration of LFG on the south side of the Site.

02:003096.SG12.03\Graphics\Figure 5-1_LFG Control Measures.cdr

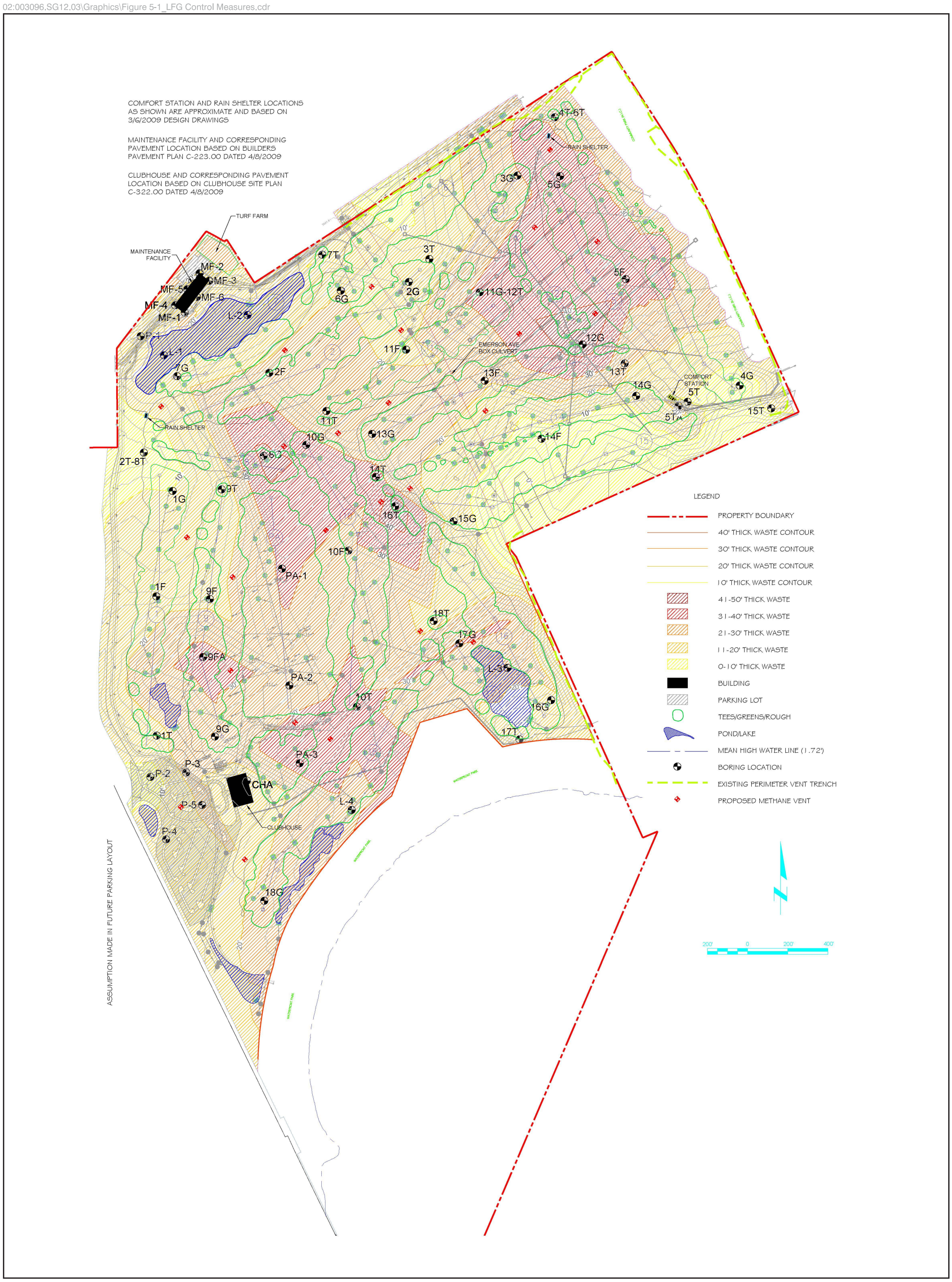

SOURCE: Ecology and Environment Engineering, P.C. 2011

Figure 5-1 Layout of LFG Control Measures

5.2 Passive Vent Well System Design

5.2.1 System Description

EEEPC has prepared a layout of the vertical passive gas vent wells for the golf course (see Figure 5-1 and Appendix A). The number of vent wells and their locations were selected to maximize the LFG removal efficiency while avoiding the golf course playing area using the following criteria, in order of priority:

- Vent wells were first located in areas exhibiting high historical subsurface and shaping layer LFG concentrations (see Figure 4-3).
- The locations were further biased toward areas exhibiting larger waste thicknesses because these areas could generate more LFG.
- The locations were then biased toward areas of higher shaping layer thickness and higher top of MSW elevations because these areas will influence LFG pressure build-up and/or lateral migration of LFG.
- The locations were selected to avoid subsurface utilities and playing areas of the golf course.
- The Site includes a network of vertical vent trenches along the northern and eastern boundaries that capture and release any LFG that laterally migrates towards these Site boundaries.
- The Site design includes a porous sand layer that will diffuse any LFG releasing from any preferential pathway in the shaping layer.
- Subsurface utilities that travel off-site or into/out of occupied structures will have soil/bentonite collars and additional passive vents installed (see Section 5.4).
- Water quality ponds will be lined up to their permanent pool elevations with a low permeability low density polyethylene (LDPE) liner and include passive vent systems. Ponds to be lined and passively vented include: K, L, M, P1, P2, and the irrigation lake. Pond P2 will be lined for its entire volume due to the presence of MSW encountered during excavation.
- The three enclosed buildings (maintenance facility, comfort station, and clubhouse/banquet facility) on the golf course will have active SSD systems with additional venting installed. The maintenance facility and comfort station are shown on the engineering drawings S-202.00, C-221.00/C-222.00, and C-321.00/C-322.00, respectively prepared for the DPR under Contract X.126-209M (TRC 2009b). Community and waterfront parks will have one comfort station each which will also be designed with active SSD systems. The community park is shown on the engineering drawings prepared for the DPR under Contract X.126-208M (TRC 2008), which were also included in the November 2009 Permit Application (TRC 2009a).

Twenty-five stand-alone vertical passive vents and 12 passive vents installed into utility pipe bedding material are planned for the site. There are approximately 190 acres not covered by ponds or buildings, which are vented separately. This equates to a frequency of one vent per 5 acres. It is anticipated that this same venting frequency will be applied to the waterfront park. The community park already has 12 passive vent wells installed, which is a greater frequency than one vent per 5 acres. The community park passive vent design is shown on Drawings H-1.1 through H-1.7 (submitted under separate cover). These drawings show that the stand-alone vertical vents facilitate venting through the aspirometric cowl. The drawings also show a sample port on the side of each vent stack that will facilitate the monitoring of the vented gases.

Passive venting, combined with an LFG generation rate that is more than 50 years past its maximum, the vertical vent trenches and those vents incorporated into utilities, SSD systems, and the pond liner systems will more than adequately vent the LFG such that all emissions and health and safety requirements are met.

These vents will work predominantly via a pressure gradient. The vertical vents will be screened for the entire thickness of the MSW layer and extend to below the lowest known water table. When the LFG pressure in the subsurface is higher than the atmospheric pressure, LFG will be conveyed towards the vent and released through the top of the vent. During periods of equal subsurface and vent pipe pressure, a smaller amount of LFG will be released via diffusion as the subsurface gas concentrations in or near the vent pipe seek to equalize with the atmospheric concentrations. Radii of Influence (ROIs) are calculated for active venting systems and do not apply to the performance of passive venting systems. Therefore, no ROI calculations can be made for the passive vents as the pressure gradient in the subsurface will convey LFG to the passive vents.

5.3 Sub-Slab Depressurization Systems for Building Structures

SSD systems will be installed for all enclosed buildings at the site. This includes the maintenance building, clubhouse/banquet facility, and comfort station at the golf course; and one comfort station each at community and waterfront parks.

The SSD systems will be designed to capture and actively vent LFG from beneath each building foundation. Vent piping will be installed to penetrate the foundation slabs at each building, and travel up through the roof via a suction fan to discharge accumulated LFG to the atmosphere.

At each building, an impermeable geotextile liner will be placed directly on top of a 12-inch thick gas permeable aggregate sub-base layer, beneath the entire building's floor slab. Sub-slab depressurization pit(s) will be installed in the aggregate layer. A six-inch diameter vertical riser pipe will extend from the SSD pit(s) through the building to the roof, where a suction fan shall be installed to actively vent LFG.

Sub-slab LFG concentrations will be monitored through monitoring points installed through the floor slabs of each building. Indoor air combustible gas levels will be monitored via combustible gas indicators installed throughout the buildings.

5.4 LFG Control in Subsurface Features

LFG Control in Utility Corridors

All site utilities will be installed within the subsurface. Low-permeability soil/bentonite collars will be installed in utility corridors containing permeable pipe bedding materials at the building line into structures and where the utilities travel off-site. This will be done to prevent LFG from migrating laterally within pipe bedding and into buildings or off-site. These utilities are predominantly water and sanitary sewer lines but will include other utilities if they were installed with permeable pipe bedding material and they either enter a building or extend off-site.

Where such utilities are routed off-site through a perimeter vent trench, the soil collar will be installed immediately adjacent to the off-site side of the vent trench, thus allowing any gas traveling through the pipe bedding to be vented to the atmosphere through the vent trench. In locations where these utilities are not routed through a vent trench, a vertical passive vent will be installed immediately on the landfill side of the soil collar. In locations where these utilities travel into a building, the soil collar will be at the building line and a passive vent will be installed to vent the pipe bedding to the roof of the building.

Other utility LFG controls include air vents on vault and manhole covers and conduit seals and electrical connection.

Locations and details of the soil/bentonite collars and vent locations are shown on the Design Drawings prepared for the DPR under Contract X.126-208M (EEEPC 2012). The Design Drawings also include a detail of the conduit seals.

LFG Control Underneath Ponds/Lakes

An irrigation lake with a geomembrane liner has been constructed in the northwestern area of the golf course. The liner is an impediment to the surface venting of LFG. A gas transmission layer has been installed underneath the geomembrane liner and is connected to perforated piping around the perimeter of the lake as shown on TRC's Contract Drawings H2.1, H2.2, and H2.13 of Contract X.126-109M (TRC 2009c). This perforated pipe enables the passive venting of LFG from beneath the liner. This venting system could be activated should contingency actions be needed as described below.

Should perimeter LFG monitoring data indicate the off-site migration of methane, this venting system allows for the contingency connection of an active blower. Section 6.3.4.1 discusses the conditions for this potential contingency action.

Water quality ponds will be lined with a low permeability liner up to their permanent pool elevation. The low permeability LDPE liner will include passive venting. Ponds to be lined and passively vented include: K, L, M, P1, P2, and the irrigation lake. Pond P2 will be lined for its entire volume due to the presence of MSW encountered during excavation. The water quality ponds are shown on TRC's Contract Drawings C3.4 through C3.9 of Contract X.126-109M (TRC 2009c) and C-351.00 of Contract X.126-209M (TRC 2009b). The water quality pond liner designs are shown in EEEPC's Supplemental Drawings of Contract X.126-109M (EEEPC 2011a). A geocomposite layer will transfer, via a pressure gradient, any LFG building up pressure beneath the liner to the perimeter trench perforated pipe, where it will be passively vented to the atmosphere. Once the gas reaches the atmosphere, it will diffuse quickly to negligible levels, as described in Section 2.

Additional Risk Management Measures

The venting of enclosed but rarely occupied spaces, such as manholes, will be conducted by following confined space entry protocols, including active ventilation just prior to and during entry. A health and safety plan that addresses confined space ventilation, required air monitoring, and required personal protective equipment will be prepared and provided to NYSDEC.

6 Landfill Gas Maintenance and Monitoring Requirements

6.1 Introduction

Since 2000, DPR has performed bi-weekly LFG monitoring at on-site, perimeter, and off-site monitoring locations in accordance with the Site's 2005 Part 360 Permit (Permit No. 2-6006-00014/00013). Compliance with Part 360-2.17(f) requires methane concentrations at the site boundary to be less than the LEL. However, the 2005 Permit required the Ferry Point site to comply to a more restrictive criteria of 25% LEL as the action level for which additional sampling and reporting was required. The Part 360 renewal application for the site will comply with the regulatory guidance of NYCRR Part 360-2.17(f) for LFG monitoring and reporting, as described below in Section 6.1.1.

The required operations, maintenance, and monitoring (OM&M) actions presented in this document will be incorporated into the Part 360 permit renewal application for the Site.

LFG monitoring is planned using existing LFG probes, and will be conducted in accordance with this Plan. Figure 3-2 shows the location of LFG monitoring probes and piezometers.

6.1.1 Regulatory Guidance

The NYCRR Part 360 "Solid Waste Management Facilities" regulations concerning LFG were used as guidance in developing the OM&M program. The following criteria will be used for the Site:

Part 360-2.17(f):

- Concentration of explosive gases must not exceed 25% LEL in on-site and off-site structures; and
- Concentration of explosive gases must not exceed LEL at the property boundary.

Because of the planned future uses of the site as a golf course, banquet facility, and public park, the LFG monitoring plan provides a comprehensive program for future monitoring and maintenance, with specific contingency actions as needed.

Continuous monitoring for methane will occur in all enclosed buildings at the Site for the protection of occupants.

6.2 Monitoring Activities through Completion of Golf Course Construction

LFG monitoring activities through the completion of construction will continue to comply with the existing 2005 Part 360 permit special conditions, as summarized below. OM&M personnel for the site will remain as-is (AES or other DPR authorized gas monitoring subcontractor) through turnover of the project to post-construction operations.

- Special condition 26: Monthly inspections shall be performed of the gas venting trench to verify the integrity of the trench and mulch cover. The gas venting trench shall be maintained at all times and soil washouts promptly repaired. Mulch cover shall be replaced at a minimum every spring to maintain the effectiveness of the trench.

- Special condition 30: Monthly groundwater elevation gauging shall be performed to measure the depth to groundwater in each piezometer installed at the gas venting trench until completion of construction. If groundwater elevation in an individual piezometer is measured below the base of the vent trench during a single event, DPR will implement a response plan in accordance with special condition 31 of the 2005 permit. This response plan supersedes the requirements outlined in Exhibit I of Volume II of TRC's 2005 Engineering Report.

- Special condition 31: In the event groundwater level in an individual piezometer is measured below the base of the perimeter vent trench, the following actions will be taken:

  1. NYSDEC will be notified within 24 hours of an individual detection of groundwater elevation below the base of the trench.

  2. Frequency of piezometer monitoring will be switched to bi-weekly if two consecutive exceedences of LEL occur at nearby gas probes; or two consecutive groundwater elevation measurements in the piezometer are reported below the trench elevation.

  3. Monitoring will return to its routine frequency when groundwater elevation in the piezometer is reported above the base of the trench for three consecutive bi-weekly measurements; or methane measurements in nearby probes drop below the LEL for three consecutive measurements.

- Special conditions 32 and 34: Bi-weekly monitoring shall be performed for perimeter gas monitoring wells (0, 1A, 1 to 3, 5 to 12, and 14 to 18) and on-site monitoring wells (13 and 19).

If any individual monitoring point has a reading equal to or greater than 100% LEL or three consecutive bi-weekly readings greater than 25% LEL, monitoring will be performed weekly for the individual points with the elevated readings. An individual monitoring point will return to the regular bi-weekly monitoring schedule when three consecutive weekly readings are measured below the 25% LEL.

- Special conditions 36 and 37: Bi-weekly monitoring shall be performed for the off-site gas monitoring network.

  If any individual monitoring point has a reading that equals or greater than 100% LEL, or three consecutive bi-weekly readings greater than 25% LEL, monitoring will be performed weekly for the individual points with elevated readings. An individual monitoring point will return to the regular bi-weekly monitoring schedule when three consecutive weekly readings are measured below 25% LEL.

- As per NYSDEC's January 3, 2011, letter, additional LFG monitoring parameters will be added to the gas probe monitoring program for the remainder of Site construction. These parameters will continue to be monitored post-construction. These parameters include hydrogen sulfides, VOCs, and carbon monoxide, reported in parts per million (ppm); and well temperature and pressure.

6.3 Post-construction Monitoring and Maintenance

The information presented in the post-construction monitoring and maintenance plan is organized as follows:

- Description of OM&M personnel and responsibilities;
- Description of site gas monitoring and maintenance infrastructure, and the activities that will occur for each monitoring and/or maintenance event;
- Schedule of proposed maintenance and monitoring frequency;
- Performance criteria for:
  - Contingency actions,
  - Reduction in maintenance/monitoring,
  - Abandonment of gas venting and monitoring infrastructure; and
- Record keeping and reporting requirements.

Monitoring locations and frequencies are summarized in Table 6-1. O&M forms are included in Appendix D.

6.3.1 OM&M Personnel

New York City Departments of Parks and Recreation

The DPR is responsible for maintaining this OM&M Plan and ensuring that the LFG control systems are operated and maintained.

LFG Monitoring and Maintenance Supervisor

The LFG monitoring and maintenance (LFG M&M) supervisor will be an employee of DPR, oversee all Site LFG monitoring and maintenance activities, and serve as the primary point of contact for DPR for OM&M activities for the Site's LFG control systems. This individual shall be required to have a minimum of 5 years experience with the monitoring and reporting of LFG. The individual will be proficient in operating and maintaining gas monitoring equipment. They will have completed the initial 29 CFR 1910.120 (OSHA 40-hour HAZWOPER) training, and maintain the annual 8-hour refresher training. The LFG M&M supervisor has responsibility and authority to direct all OM&M work activities. The LFG M&M supervisor will maintain the necessary monitoring personnel for the required maintenance and monitoring activities.

LFG O&M Personnel

Each inspection/monitoring event will be performed by up to two personnel, who shall have prior experience with LFG monitoring, and who will be assigned by the LFG M&M supervisor. O&M personnel will be trained in the operation and maintenance of gas monitoring equipment and have completed the initial 29 CFR 1910.120 (OSHA 40-hour HAZWOPER) training, and maintain the annual 8-hour refresher training.

The duties of the LFG operation and maintenance (O&M) personnel include:

- Routine monitoring, maintenance, and inspections as detailed in Section 6.3.2;
- Performing contingency activities as detailed in Section 6.3.4.1; and
- Providing completed LFG O&M forms to the LFG M&M supervisor.

New York State Department of Environmental Conservation

NYSDEC is the regulatory agency under whose oversight maintenance and operation of LFG control systems will be conducted.

6.3.2 LFG Monitoring and Maintenance Infrastructure

6.3.2.1 Perimeter LFG Probes

Perimeter probes are located at approximately 250-foot intervals along the north, east, and southern site boundaries (refer to Figure 6-1 for probe locations and Exhibit H of Volume II of the TRC 2005 Engineering Report for probe completion details).

Routine Monitoring and Maintenance
During each event, OM&M personnel will:

1. Record the following field measurements at each location:
   a. Methane (% by volume and % LEL), O_2 (% by volume), hydrogen sulfides (ppm), VOCs (ppm), and carbon monoxide (CO) (ppm).
   b. Well temperature degrees Fahrenheit (°F) and well pressure pounds per square inch (psi).

2. Observe the probes and surrounding ground surface for damage and settlement, and make repairs as necessary (inspect inner and outer casings, check sample tube for holes or cuts, and make sure it is not kinked, make sure valve is operable, replace bolts, well lid, and check well locks as necessary). A summary of necessary repairs will be included in the Annual Report.

3. Complete a monitoring report following each event.

6.3.2.2 Off-site LFG Monitoring Network
Off-site probes are located along Buttrick, Balcom, Schley, Miles, and Emerson, avenues (see Figure 3-1 for probe locations and AKRF [2002] for probe construction details).

Routine Monitoring and Maintenance
During each event, OM&M personnel will:

1. Record the following field measurements at each location:
   a. Methane (% by volume and % LEL), O_2 (% by volume), hydrogen sulfides (ppm), VOCs (ppm), and CO (ppm).
   b. Well temperature (°F) and well pressure (psi).

2. Observe the probes and surrounding ground surface for damage and settlement and make repairs as necessary (inspect inner and outer casings, replace bolts, well lid, and check well locks). A summary of necessary repairs will be included in the Annual Report.

3. Complete a monitoring report following each event.

6.3.2.3 Piezometers
In 2002, 25 piezometers were installed to evaluate the groundwater elevation relative to the bottom of the passive-vent trench (see Figure 6-1 for piezometer locations and Exhibit I of Volume II of TRC's 2005 Engineering Report for piezometer details).

Routine Monitoring and Maintenance
During each event, OM&M personnel will:

1. Record the following field measurements at each location:

a. Depth to groundwater in the piezometer.

2. Observe the piezometers and surrounding ground surface for damage and settlement and make repairs as necessary (e.g., inspect inner and outer casings, replace bolts, well lid). A summary of necessary repairs will be included in the Annual Report.

3. Complete a monitoring report following each event.

6.3.2.4 Passive Vent Trench

The passive-vent trench is installed along the eastern perimeter of the Site and along a portion of the northern Site perimeter. The passive vent trench will be inspected annually, and maintained by DPR to verify the trench is operating as designed. During each event, OM&M personnel will:

1. Observe the vent trench for soil washouts of the mulch cover or other visible signs of damage.

2. Replace mulch cover for areas noted to have washouts.

3. Remove any woody vegetation that has accumulated in the trench.

4. Restore to grade any areas observed to have settled or eroded.

5. Complete a maintenance report, noting the schedule for any maintenance unable to be completed during the original event.

6.3.2.5 LFG Passive Vents

The passive venting system consists of:

- 25 individual vents within the golf course interior (See Appendix A – Passive Vent Layout and Details – Sheet S-H11.01 and SH11.02 for locations of these vents.)

- 12 passive vents inserted into utility pipe bedding material within golf course interior

- 12 passive vents within the community park.

- Additional passive vents as-needed for site features such as water quality pond liners.

Passive vents are intended to relieve LFG pressure buildup within in the buried waste and prevent offsite gas migration. Data trends observed in onsite probes MW-4R and MW-19 (Appendix C – LFG Monitoring Data - Sheets S-H6.01 and S-H6.02 –Existing Gas Monitoring and Venting Plan) illustrate the behavior of LFG that is anticipated at passive vent locations that are drilled into areas where

LFG is present. Elevated methane levels might be observed for up to several years following installation when decreased methane levels are expected.

The 25 stand-alone passive vents will be monitored for stack height reduction eligibility and decommissioning purposes, as described in Section 6.3.4.3 – Decommissioning of LFG Management Infrastructure. Passive vents will have an access port to facilitate monitoring. Passive vent monitoring will occur during routine vent inspection.

Routine monitoring of perimeter probes is based on the regulatory requirements outlined in Section 6.1, and will continue to detect the potential of off-site gas migration and be used for the recommendation of contingency actions for the Site.

Elevated levels of methane in a vent do not indicate an unsafe surrounding, since the vents are designed to transport LFG from within the landfill to the atmosphere for dispersal. Contingency actions for the stand-alone passive vents are given in Section 6.3.4.

Routine Maintenance and Inspection

During each event, OM&M personnel will:

1. Observe the ground surface around the vents and confirm that the vents are firmly anchored in their original intended position.

2. Observe the vent riser and confirm absence of damage to vent piping.

3. Provide general upkeep, including:
   a. Removing excessive vegetation at and around the vent area,
   b. Repairing any erosion or settlement around the vent riser, and
   c. Repairing any damage to vent risers, as necessary.

4. Monitoring of the 25 stand-alone passive vents within the golf course will be performed to evaluate stack height reduction eligibility. These measurements will be recorded and reported in the maintenance or inspection report.

   Perimeter probe monitoring will be used to determine if methane may be migrating off site. Contingency actions are discussed in Section 6.3.4.1.

   The following parameters will be measured and recorded:

   a. Methane (% by volume and % LEL), O_2 (% by volume), hydrogen sulfides (ppm), VOCs (ppm), and CO (ppm)
   b. Vent temperature (°F).

5. Complete a maintenance report, noting the schedule for any repairs/maintenance unable to be completed during the original event.

6.3.2.6 Sub-Slab Depressurization Systems

SSD systems are proposed for enclosed buildings at the Site. Monitoring requirements for SSD systems are presented in this section. The locations of the enclosed buildings where the SSD systems are to be installed are presented in Figure 3-2, Monitoring Locations. The proposed SSD systems must be approved by both NYSDEC and the New York State Department of Health (NYSDOH) prior to installation. Upon completion of the detailed design of these systems, DPR will provide NYSDEC with the manufacturer's specification sheets for the vapor barrier materials; manufacturers' operation and maintenance manuals for all vapor monitoring and control systems; and sizing calculations for vent fans. Installation and proper functioning of the SSDS shall be certified by a Professional Engineer registered in New York State.

The following buildings will have SSDSs:

- Golf Course Comfort station, as shown on drawings X-002.00 through X-005.00 (TRC 2009b);
- Golf Course Maintenance Facility, as shown on drawings X-001.00 and X-003.00 through X-005.00 (TRC 2009b);
- Community Park Comfort Station, as shown on drawing EV-1 (Whitestone Associates 2009);
- Golf Course Clubhouse (not yet designed); and
- Waterfront Park Comfort Station (not yet designed).

Any new structures at the Site will be designed in accordance with New York City Department of Buildings permitting procedures. The need and extent of LFG mitigation systems for future site structures will be evaluated on a case by case basis.

Routine Maintenance and Inspections

System inspections will be performed on a routine basis for the site's SSD systems. During each event, OM&M personnel will:

1. Perform routine maintenance on the SSD equipment based on manufacturer's manuals, including calibration of the methane gas monitors using standard gasses.

2. Download continuous SSD monitoring data retained by the system controller at each building.

3. Complete maintenance activities indicated by equipment manufacturers of the respective systems.

4. Complete an inspection report, with the following readings:
   a. Sub-slab vacuum readings at the sub-slab monitoring points located within each building,
   b. Vacuum gauge readings located on the suction fan inlet, and

c. Note the schedule for any maintenance unable to be completed during the original event.

Real-Time Monitoring and Contingency Actions for Occupied Structures

Each enclosed facility will have at least one continuous combustible-gas monitor that will transmit real-time methane readings to a system controller. The installed system will be capable of retaining the readings and generating reports that include date, time, and methane concentration.

One air-flow switch will be installed for each suction fan. The switch will detect and transmit low-flow conditions to a system autodialer.

An autodialer system will enable the DPR to be notified remotely based on "early warning" indicators. Early warning levels will be set to allow time for corrective action to be taken before methane levels reach 25% LEL in the enclosed space.

Early warning indicators will identify the following conditions:

- Reduction of system flow rate below what is required for effective operation.
- Detection of methane levels at a sentinel concentration of 10% LEL.

Visible and audible alarms will occur at levels of 25% LEL and above to signal the need for building evacuation. Upon notification of elevated methane levels, the building will be evacuated and ventilated. Building occupants will be allowed to re-enter the enclosed facility only after continuously monitored LEL levels drop below 25% LEL.

If methane readings exceed 25% LEL in an enclosed space, NYSDEC will be notified within 24 hours of the event.

6.3.2.7 Irrigation Lake Venting System

An irrigation lake with a geomembrane liner has been constructed in the northwestern area of the golf course. The liner is an impediment to the surface venting of LFG. A gas transmission layer has been installed underneath the geomembrane liner and is connected to perforated piping around the perimeter of the lake as shown on TRC's Contract Drawings H2.1, H2.2, and H2.13 of Contract X.126-109M. This perforated pipe enables the passive venting of LFG from beneath the liner. This venting system could be activated should contingency actions be needed as described below.

Should perimeter LFG monitoring data indicate the off-site migration of methane, this venting system allows for the contingency connection of an active blower. Section 6.3.4.1 discusses the conditions for this potential contingency action.

6.3.3 LFG Monitoring Schedule

Implementation of the post-construction monitoring plan will collect data necessary to meet the regulatory guidance and to confirm the effectiveness of the installed LFG control measures. The monitoring program will be used to confirm that future LFG conditions are consistent with noted historical trends and LandGEM model projections.

Basis for Proposed Monitoring Schedule

A review of Site data from 2000 to April, 2012 was performed to create the basis for the recommended method of post-construction gas monitoring. The data review included five bi-weekly monitoring events that occurred after the well repairs (including retrofits) were made. LFG design criteria and LandGEM modeling data were also reviewed.

Methane emissions modeling performed by both TRC in 1999 (AKRF 1999) and EEEPC in 2010 projected estimates that were approximately 10% of the peak generation rate, and were higher in concentration than actual field measured emissions obtained through the 2010 flux box sampling event (see Figure 6-1). The flux box sampling event found no reportable surface methane concentrations at any of the 30 on-site test locations.

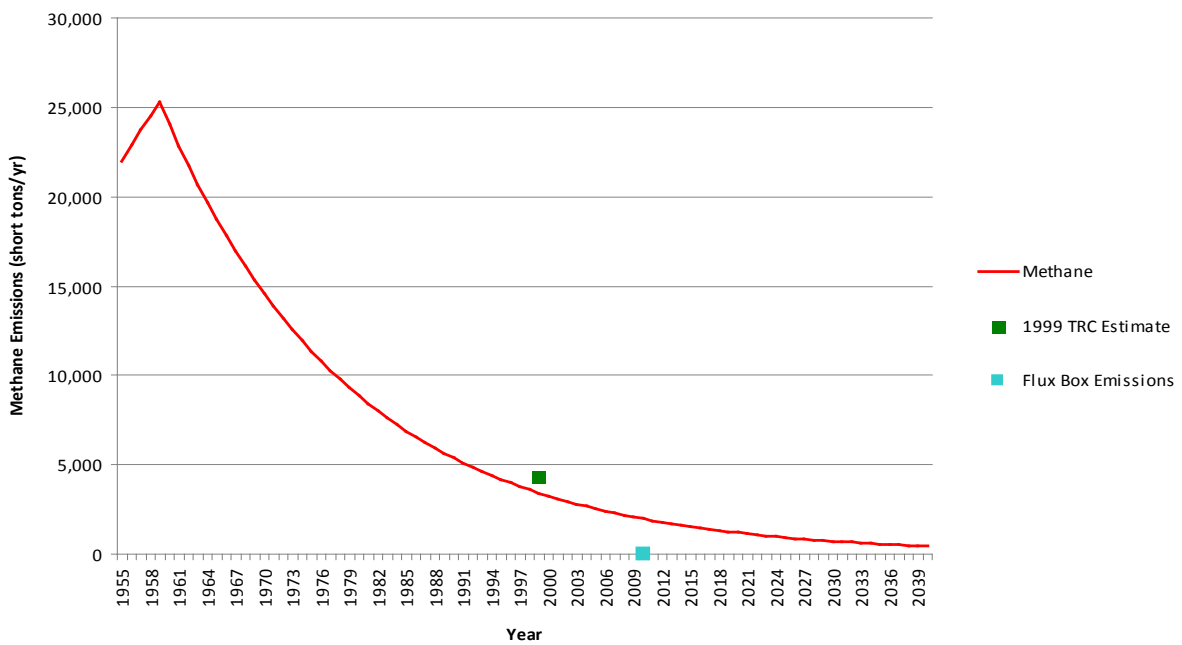

Figure 6-1 LandGEM Emissions Model Results

Piezometer Measurements

In compliance with the current permit and consistent with Part 360-2.15(f) performance objectives, the DPR has taken groundwater elevation measurements bi-weekly at piezometer locations. The data collected from 2007 through 2010 demonstrates that groundwater elevations in the piezometers have been above the base of the vent trench during the entire period.

6.3.3.1 Proposed Monitoring Frequencies

The monitoring schedule below is proposed as the initial post-construction monitoring plan. Adjustments to monitoring frequencies will be requested of NYSDEC upon meeting the performance criteria thresholds identified in this document. DPR will submit a request with supporting documentation to NYSDEC 30 days prior to the desired date of the proposed change in monitoring. DPR will not change monitoring frequencies until the request has been approved.

All wells that have not been approved for abandonment by NYSDEC, have undergone the repairs necessary to bring them into compliance with the current Part 360 Permit. Data collected from the repaired well locations has been used, with the historic data to recommend the initial monitoring frequencies shown in Table 6-1.

- Perimeter and off-site gas probes that reported detections of methane above 25% LEL in the last five years of monitoring (since 2006) will be monitored quarterly. Inspections and maintenance at these locations will be performed during monitoring events.

- Perimeter and off-site gas probes that reported no detections of methane above 25% LEL in the last five years of monitoring (since 2006) will be monitored annually. Inspections and maintenance at these locations will be performed during monitoring events.

- On-site LFG monitoring probes will not be included in the post-construction monitoring program. Inspections and maintenance at these locations will be performed annually.

- Piezometers locations will be monitored and inspected monthly.

- The 25 stand-alone passive vents within the golf course boundary will be inspected approximately one month after completion of installation of all vents. Inspections will occur quarterly for the first year following installation, and continue annually thereafter. NYSDEC reserves the right to require an inspection frequency other than annual after the first year. Inspections of passive vents include LFG monitoring as described in Section 6.3.2.5.

- The remaining passive venting infrastructure, including the passive vent trench, and vents for Community Park, water quality ponds, and utility soil collar vents will be inspected annually.

- Monitoring in enclosed structures will be conducted using combustible gas monitors that will record real-time methane concentrations. System alarms will be monitored and maintained inside these structures. Inspections and maintenance of sub-slab depressurization systems at enclosed structures will be performed quarterly.

Monitoring will continue at the frequency outlined in this Plan until: 1) the DPR provides NYSDEC a formal request to change the monitoring frequencies along with supporting documentation and 2) the request is approved by NYSDEC. Additional inspections of passive venting infrastructure may occur upon the implementation of contingency activities, as discussed in Section 6.3.4.1.

Table 6-1 Post Construction Landfill Gas Initial Monitoring Frequency

Location	Number of Methane Detections Above 25% LEL			Proposed Monitoring Frequency[1,2]
	August 2000 – January 2010	January 2006 – January 2010	Post-Retrofit 2/21/12 – 4/16/12	
Perimeter LFG Monitoring Probes				
MW-0	**176**	**61**	NA	None – Abandoned. Replaced with onsite MW-0REP
MW-1	**41**	0	NA	None (Previously Decommissioned)
MW-1A	**3**	0	0	Annually
MW-1R	**1**	0	0	Annually
MW-2	**4**	0	**1**	Quarterly
MW-3	**1**	0	0	Annually
MW-4A	**17**	0	0	Annually
MW-5	**11**	0	0	Annually
MW-6	**12**	0	0	Annually
MW-7	**16**	0	0	Annually
MW-8	**2**	0	0	Annually
MW-9	0	0	1	Quarterly
MW-10	**1**	0	0	Annually
MW-11	0	0	0	Annually
MW-12	**1**	0	0	Annually
MW-14	**105**	**4**	**1**	Quarterly
MW-15	0	0	0	Annually
MW-16	**2**	0	0	Annually
MW-17	0	0	0	Annually
MW-18	0	0	**1**	Quarterly
Onsite LFG Monitoring Probes[3]				
MW-0REP	NA	NA	**4**	Quarterly
MW-4R	**90**	**30**	NA	None – Abandoned. Replaced with MW-4REP
MW-4REP	NA	NA	**10**	Quarterly
MW-13	**17**	**4**	0	Quarterly
MW-19	**108**	**5**	NA	None – Abandoned. Replaced with MW-19REP
MW-19REP	NA	NA	**10**	Quarterly
Off-Site Monitoring Probes[4]				
Buttrick				
1R	0	0	0	Annually
2R	0	0	0	Annually
3R	0	0	0	Annually
4R	**2**	**1**	**0**	Quarterly

Table 6-1 Post Construction Landfill Gas Initial Monitoring Frequency

Location	Number of Methane Detections Above 25% LEL August 2000 – January 2010	January 2006 – January 2010	Post-Retrofit 2/21/12 – 4/16/12	Proposed Monitoring Frequency[1,2]
5	0	0	0	None (Previously Decommissioned)
6	2	2	1	None (Proposed for Abandonment due to proximity to other monitoring points))
8	**35**	**23**	**1**	Quarterly
9	**54**	**30**	**1**	Quarterly
10	**166**	**108**	**NA**	None – Abandoned. Replaced with MW-10REP
10REP	**NA**	**NA**	**2**	Quarterly
12R	**50**	**35**	**4**	Quarterly
13R	**13**	**6**	**2**	Quarterly
14R	**14**	**6**	**3**	Quarterly
16R	**84**	**70**	**3**	Quarterly
17R	**8**	**5**	**0**	Quarterly
18	0	0	0	Annually
Schley South				
3R	**2**	0	0	Annually
5	**4**	**4**	**0**	Quarterly
6	**22**	**22**	**1**	Quarterly
7	2	2	0	None (Proposed for Abandonment due to proximity to other monitoring points))
8	**2**	**2**	**1**	Quarterly
9	**3**	**3**	**0**	Quarterly
10	0	0	0	Annually
Schley North				
4A	0	0	0	Annually
5	0	0	0	Annually
7R	0	0	0	Annually
7A	**1**	0	0	None (Proposed for Abandonment due to proximity to other monitoring points)
Emerson				
E1R	0	0	0	Annually
E2RR	0	0	0	Annually
E3R	**5**	**5**	**2**	Quarterly
E4R	0	0	0	Annually
E5R	2	0	0	Annually
E6R	0	0	0	Annually

Table 6-1 Post Construction Landfill Gas Initial Monitoring Frequency

Location	Number of Methane Detections Above 25% LEL			Proposed Monitoring Frequency[1,2]
	August 2000 – January 2010	January 2006 – January 2010	Post-Retrofit 2/21/12 – 4/16/12	
E7R	0	0	0	Annually
E8R	0	0	0	Annually
Miles				
M1R	**1**	0	0	Annually
M2R	**2**	0	0	Annually
M3R	**1**	0	0	Annually
M4R	**1**	0	1	Quarterly
M5R	0	0	0	Annually
M6R	0	0	0	Annually
M7R	0	0	0	Annually
M8R	0	0	0	Annually
M9R	**1**	0	0	Annually
M10R	5	0	0	Annually
Balcom				
2	**6**	0	0	Annually
4	0	0	0	Annually

Notes:
1. Locations selected for annual monitoring - No detections of methane above 25% LEL since January 2006.
2. Locations selected for quarterly monitoring - At least one detection of methane above 25% LEL since January 2006.
3. On-site wells will not be included in post-construction monitoring.
4. Off-site probe locations selected for abandonment based on proximity to other monitoring points.

6.3.4 Gas Monitoring Performance Criteria

6.3.4.1 Contingency Actions for LFG Monitoring Wells and Gas Management Infrastructure

The following contingency actions are recommended for post-construction site operations for LFG monitoring wells and gas management infrastructure:

- NYCDPR will provide verbal and electronic notification within 24 hours of an individual LFG measurement exceeding the criteria established in the Part 360 Permit to FDNY, NYCHA, NYSDEC, and NYCDOHMH, according to the following guidelines:
  - NYSDEC & FDNY – Will be notified for all post-construction monitoring events and contingency action events where an exceedance is observed.
  - NYCHA & NYCDOHMH – Will be notified for post-construction monitoring and contingency action events where an exceedance is observed within an enclosed building, or at a perimeter or offsite monitoring location. Enclosed buildings are defined as those buildings within the site that have sub-slab depressurization systems: golf course maintenance building, clubhouse, comfort station/snack bar and community park comfort station.
  - All monitoring, maintenance, and contingency actions will be documented and kept at the NYCDPR Bronx Borough Office (Ranaqua), Bronx Park, Bronx, New York.

- If two consecutive measurements above 100% LEL occur at any perimeter gas monitoring probe, or at an offsite gas monitoring probe located on Emerson, Miles, or Balcolm avenues, a monitoring and maintenance event will be performed within seven days following the second consecutive measurement and consist of the following:
  1. Inspection and maintenance of the perimeter vent trench within 100 feet on either side of the individual probe location.
  2. Water level gauging at the two nearest piezometers to the individual probe location.
  3. Inspection of any additional passive venting infrastructure located within a 100-foot radius of the individual probe location for damage and overgrowth.
  4. Follow up monitoring for all parameters at the individual probe location two weeks after completion of the items above.

  If contingency maintenance reveals a potential cause for the elevated methane measurements (e.g., vent trench clogged and water levels below trench), this will be reported to NYSDEC and routine monitoring frequency will resume once maintenance is complete, and follow-up monitoring indicates levels have dropped.

  If monitoring following contingency maintenance indicates that methane levels remain above 100% LEL, the following actions will be completed and reported to NYSDEC within 45 days of completion of initial contingency maintenance:
  1. Review of recent elevated detections at nearby monitoring locations.
  2. Evaluation of methane levels at the property boundary and off-site, if necessary.
  3. Evaluation of potential outside causes of elevated methane (i.e., mulching/composting activities nearby).
  4. Evaluation of potential Site disturbances (i.e., excavation or construction) that may have resulted in the movement of subsurface methane.
  5. A proposed plan for the mitigation of elevated methane, which includes:
     a. Mitigation of outside causes of elevated methane, if identified.
     b. LFG monitoring in the vicinity of site work to determine impacts resulting from site activities.
     c. Inspection and maintenance of passive vent trench.
     d. Follow-up monitoring to confirm methane levels following completion of contingency actions.
  6. Evaluation for the potential installation of additional venting infrastructure may be considered if the contingency actions above are shown to be ineffective. These include:
     a. Installation of additional individual passive vents, and
     b. Installation of active blower system for the irrigation lake;

- Off-site probes on Buttrick and Schley avenues are believed to be located near an off-site source of methane. In addition, perimeter gas probes exist on

Schley Avenue which will indicate the presence of methane at the Site boundary. Therefore, elevated methane measurements at off-site probes located on Buttrick and Schley avenues will not require contingency actions.

- For the twenty-five stand-alone passive vents at the golf course:

If the routine vent inspections indicate that any stand-alone passive vent is not functioning as designed, DPR will:

1. Perform a 25-foot radius scan using the LFG monitoring instrument around that vent to confirm safe conditions in the breathing zone.

2. Prepare a specific work plan to evaluate conditions at that vent and recommend contingency actions.

6.3.4.2 Performance Criteria for Reduction of LFG Monitoring

The following performance thresholds will be used as guidance reductions in monitoring frequency. When the data thresholds assigned show that site conditions are acceptable for such reductions, DPR will provide NYSDEC with the supporting documentation and a request to change the monitoring frequency, for NYSDEC review and approval.. These thresholds apply to the post-construction period only.

For perimeter, on-site and off-site probes initially subject to quarterly monitoring:

- Following three consecutive years of quarterly methane measurements below 25% LEL at an individual location, DPR will request that monitoring at that location will be reduced to annually.

- Following two additional consecutive years of annual methane measurements below 25% LEL at an individual location, DPR will request that monitoring at that location will be discontinued and decommissioned. Discontinued gas monitoring locations may be selected for decommissioning upon approval by NYDEC.

For perimeter, on-site and off-site probes initially subject to annual monitoring:

- Following five consecutive years of annual methane measurements below 25% LEL at an individual location, DPR will request that monitoring at that location will be discontinued. Discontinued gas monitoring locations may be selected for decommissioning upon approval by NYSDEC.

For piezometers (all subject to annual monitoring):

- Following five years of annual groundwater measurements above the base elevation of the perimeter vent trench at an individual location, DPR will request that monitoring at that location will be discontinued. Discontinued pie-

zometer locations may be selected for decommissioning upon approval by NYSDEC.

6.3.4.3 Decommissioning of LFG Management Infrastructure

LFG monitoring and mitigation systems will be evaluated for phase-out and decommissioning as described in the sections below. DPR will submit a request with supporting documentation to NYSDEC 30 days prior to the desired date of decommissioning of any LFG mitigation infrastructure. Decommissioning of LFG management infrastructure will not occur until after the request has been approved by NYSDEC.

Perimeter, On-Site and Off-site Monitoring Probes

Decommissioning of perimeter, on-site and off-site gas probes will be requested when an individual location has met the criteria for removal from the monitoring program.

Off-site Probes in Buttrick/Schley Avenue (North and South) Areas:

Persistent methane detections in probes, located on Buttrick/Schley Avenue areas are attributed to a source separate from a landfill. The DPR has performed desktop and field evaluations to determine the source of the methane measurements.

1. Historic mapping shows the previous presence of marshlands, which are a likely contributor to elevated subsurface methane.

2. Following installation of the landfill gas perimeter vent trench, no significant changes in the elevated methane levels on Buttrick Avenue were observed.

3. LFG fingerprint testing for selected wells on Buttrick Avenue was attempted in June 2011. Monitoring following well purging observed methane levels too low on this occasion to obtain sufficient samples for laboratory analysis.

Due to these considerations, decommissioning of these probes may be requested of NYSDEC prior to meeting the criteria established in this document.

Piezometers

Monitoring of perimeter piezometer locations within the LFG vent trench will continue while LFG monitoring continues at perimeter gas monitoring locations. Once data shows that all perimeter gas monitoring locations have met the criteria for removal from the monitoring program, monitoring of the piezometers will also be discontinued, and piezometer locations will be abandoned in place, pending approval by NYSDEC.

Passive Vent Trench

Maintenance of the passive vent trench will continue while LFG monitoring continues at perimeter gas monitoring locations. Once data shows that all perimeter gas monitoring locations have met the criteria for removal from the monitoring

program, inspections of the vent trench and its use as a passive gas mitigation method will be discontinued, pending approval by NYSDEC.

Passive Venting Systems

The 12 community park vents will remain in place after LFG monitoring and mitigation activities cease, due to their incorporation into park facilities. Once it is determined that on-site and perimeter monitoring can be discontinued, inspections of these vents and their use as a passive gas mitigation method will be discontinued, pending approval by NYSDEC.

Passive vents associated with utilities, structures, and ponds may be selected for decommissioning on site, pending approval by NYSDEC.

The 25 stand-alone passive vents within the golf course boundary will be monitored for stack height reduction eligibility only during annual inspection events. The stand-alone passive vents are designed with a sampling port to facilitate monitoring. Vents will be eligible for a stack height reduction according to the following:

- Following five years of methane detections reported below the LEL at an individual vent location, vent height will be reduced to 6 inches above ground surface. Reduced height vents will continue to remain in service and be fitted with an appropriate cover to allow venting and protect from damage or foreign objects.

The 25 stand-alone passive vents within the golf course boundary may be selected for decommissioning, pending approval by NYSDEC. Once on site and perimeter monitoring locations have shown compliance with the criteria for removal from the monitoring program, inspections of the vents and their use as a passive gas mitigation method will be discontinued.

DPR will submit a request with supporting documentation to NYSDEC 30 days prior to the planned date to decommission of any passive venting locations. DPR will not take action until the request has been approved by NYSDEC.

SSD Systems

Once it is determined that all of the 25 stand-alone onsite passive vents have been decommissioned based on the decommissioning guidelines provided in this document and upon approval by NYSDEC, SSD systems will be phased out of active operations. At this time the SSD systems will be retrofitted to enable passive venting. Continuous methane monitors and alarms will remain in place inside each building, and be maintained until approval to discontinue continuous monitoring is granted by NYSDEC.

6.4 Record-Keeping and Reporting

6.4.1 Record-Keeping

All project documents, maintenance, and monitoring records will be held at the NYCDPR Bronx Borough Office (Ranaqua), Bronx Park, Bronx, New York. An additional copy of the LFG OM&M plan will be maintained at the Site's Maintenance Facility office. Project documents held by the DPR will include:

- Construction Specifications;
- Record Drawings;
- Ferry Point Landfill Gas Management Plan;
- Ferry Point Landfill Gas Operations, Maintenance, and Monitoring Plan; and
- Equipment Manufacturers Operations and Maintenance Documents and Specifications.

Monitoring personnel will be required to fill out the forms enclosed in Appendix D upon completion of the respective Site activity. Completed forms will be kept on-site for a minimum of one year and retained by the DPR thereafter. These documents will be provided to NYSDEC as part of the Annual Report.

6.4.2 Contingency Reporting

LFG Monitoring Locations

- NYSDEC will be notified within 24 hours if methane is detected above the LEL during monitoring activities.
- NYSDEC will be notified within 24 hours when methane detections indicate contingency actions are necessary.
- NYSDEC will be notified within seven days following completion of contingency actions.
- The DPR will prepare and submit a follow-up report to NYSDEC upon completion of contingency actions.

Piezometer Monitoring Locations

- NYSDEC will be notified within 24 hours if groundwater elevation is detected below the base of the passive-vent trench during monitoring activities.

Sub-slab Depressurization Systems

- NYSDEC will be notified within 24 hours if methane levels are reported above 25% LEL.

6.4.3 Annual Reporting

The DPR will prepare and submit an Annual Report to NYSDEC describing monitoring activities each year. Observation, repair, and monitoring reports will be included as appendices to the annual report. Annual reports will be submitted until the phase-out and decommissioning of all LFG-control systems and monitoring locations has occurred. The annual report will be submitted to NYSDEC by March 31 of the year following the monitoring period.

7 Bibliography

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A Passive Vent Layout

B LandGEM Model Results

C LFG Monitoring Data

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-0	MW-1	MW-1A	MW-1R	MW-2	MW-3	MW-4R	MW-4A	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-19
8/23/2000		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N.S.
9/12/2000		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N.S.
9/26/2000		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N.S.
10/11/2000		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/22/2000		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/2000		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/25/2000		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/2000		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/20/2000		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/29/2000		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/8/2001		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/12/2001		N.S.		---	N.S.	N.S.	N.S.		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/9/2001		2.60		---	0.20	0.00	84.00		5.50	6.50	12.00	0.00	0.00	0.00	0.00	0.00	12.00
2/15/2001		0.00		---	0.25	0.00	58.00		0.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	1.75
2/26/2001		0.20		---	0.00	0.00	0.20		47.00	45.00	12.00	0.00	0.00	0.00	0.00	0.00	33.00
3/9/2001		2.65		---	0.70	0.00	0.05		55.00	53.00	35.00	0.00	0.00	0.00	0.00	0.00	41.00
3/16/2001		2.15		---	0.25	0.05	2.60		42.00	49.00	4.15	0.00	0.00	0.00	0.00	0.00	7.50
3/23/2001		2.35		---	0.60	0.05	3.30		55.00	56.00	46.00	0.00	0.00	0.00	0.00	0.00	6.50
3/30/2001		4.40		---	0.40	0.00	3.25	19.00	0.25	55.00	43.00	0.00	0.00	0.00	0.00	0.00	26.00
4/6/2001		4.40		---	1.55	0.00	61.00	22.00	52.00	55.00	39.00	0.00	0.00	0.00	0.00	0.00	6.00
4/13/2001		2.25		---	0.25	0.00	47.00	14.00	37.00	48.00	25.00	0.00	0.00	0.00	0.00	0.00	4.40
4/20/2001		2.85		---	0.95	0.00	71.00	5.50	50.00	57.00	37.00	0.00	0.00	0.00	0.00	0.00	40.00
4/27/2001	1.00	4.25	0.00	---	1.60	0.00	0.60	15.00	44.00	48.00	40.00	0.00	0.00	0.00	0.00	0.00	24.00
5/4/2001	0.70	1.40	0.00	---	1.00	0.00	60.00	1.80	46.00	51.00	38.00	0.00	0.00	0.00	0.00	0.00	17.00
5/11/2001	0.95	2.85	0.00	---	0.30	0.00	56.00	9.50	0.85	0.90	0.00	0.00	0.00	0.00	0.00	0.00	14.00
5/18/2001	2.10	2.40	0.00	---	0.45	0.00	33.00	12.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	16.00
5/25/2001	0.80	0.00	0.00	---	0.50	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.00
6/1/2001	8.50	1.80	0.00	---	0.15	0.00	0.10	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.00
6/8/2001	13.00	6.50	1.30	---	1.00	0.00	54.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.80
6/15/2001	12.00	3.20	0.00	---	0.50	0.00	57.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00
6/22/2001	15.00	3.35	0.35	---	0.80	0.00	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.00
6/29/2001	14.00	3.00	0.35	---	0.60	0.00	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.00
7/6/2001	14.00	0.65	0.10	---	0.50	0.00	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.00
7/13/2001	19.60	4.15	0.00	---	0.30	0.00	1.65	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.40
7/20/2001	17.00	0.00	0.00	---	0.25	0.00	60.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.50
7/27/2001	17.50	0.00	0.00	---	0.00	0.00	53.20	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.70
8/3/2001	19.20	11.20	0.00	---	0.90	0.00	49.70	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.90
8/10/2001	17.40	7.30	0.00	---	0.57	0.00	43.50	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.20
8/17/2001	20.00	16.00	0.80	---	5.40	0.00	49.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.00
8/24/2001	22.00	6.90	0.70	---	1.00	0.00	49.80	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.90
8/31/2001	20.70	14.50	1.20	---	6.30	0.00	51.60	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.70
9/7/2001	17.50	3.30	0.00	---			50.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00
9/14/2001		7.50	NS	---	0.00	0.00	NS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00
9/21/2001	21.70	1.20	0.00	---	0.00	0.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.50
9/28/2001	23.30	3.60	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.50
10/4/2001	22.00	3.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00
10/12/2001	21.00	6.40	0.00	---	0.00	0.00	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00
10/19/2001	22.20	1.95	0.00	---	0.00	0.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.70

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-0	MW-1	MW-1A	MW-1R	MW-2	MW-3	MW-4R	MW-4A	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-19
10/26/2001	17.40	5.50	0.00	---	0.00	0.00	NS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.80
11/2/2001	14.90	3.30	0.00	---	0.00	0.00	NS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00
11/9/2001	11.80	2.90	0.00	---	0.00	0.00	NS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.40
11/16/2001	9.60	1.70	0.00	---	0.00	0.40	NS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.10
11/23/2001	0.00	0.60	0.00	---	0.00	0.00	NS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.40
11/30/2001	11.10	0.80	0.00	---	0.00	0.00	NS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.10
12/7/2001	10.90	1.00	0.00	---	0.00	0.00	NS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.80
12/14/2001	0.70	1.10	0.00	---	0.00	0.00	NS	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	13.50
12/28/2001	12.20	1.80		---													
1/4/2002	16.50	0.00	0.00	---	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.20
1/25/2002	14.10	0.00	0.00	---	0.00	0.00	N.O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.60
2/18/2002	12.30	0.00	N.M.	---	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
3/5/2002	99.00	100.00	0.10	---	0.05	0.05	N.O.	0.20	0.10	0.05	0.10	0.05	0.00	0.00	0.00	0.05	48.00
3/19/2002	100.00	0.00	0.00	---	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.00
4/2/2002	100.00	0.00	0.00	---	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67.00
4/16/2002	100.00	0.00	0.00	---	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
4/30/2002	21.00	2.00	0.00	---	0.00	0.00	N.O.	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74.00
5/15/2002	5.00	0.25	0.05	---	0.05	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
5/28/2002	5.00	0.00	0.00	---	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
6/11/2002	1.92	0.15	0.00	---	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	52.00
6/28/2002	59.00	1.00	0.00	---	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.70
7/9/2002	3.70	0.05	0.00	---	N.O.	N.O.	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50
7/24/2002	20.00	N.O	0.00	---	N.O.	N.O.	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
8/7/2002	4.20	0.00	0.00	---	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.10
8/20/2002	4.60	0.00	0.00	---	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.25
9/4/2002	50.00	0.00	0.00	---	0.00	0.00	N.O.	0.00	0.00	N.M.	N.M.	N.M.	N.M.	0.00	0.00	0.00	57.00
9/17/2002	20.00	0.00	0.00	---	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.00
10/2/2002	45.00	0.00	0.00	---	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.00
10/17/2002	25.00	0.00	0.00	---	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.00
10/29/2002	51.00	0.00	0.00	---	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00
11/12/2002	12.00	0.00	0.00	---	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.00
11/26/2002	100.00	97.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
12/10/2002	100.00	5.00	0.00	---	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	96.00
12/23/2002	100.00	0.00	0.00	---	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
1/7/2003	100.00	0.00	0.00	---	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00
1/21/2003	3.65	6.00	0.00	---	0.00	0.00	68.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.00
2/4/2003	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/19/2003	0.00	NO	NO	---	NO	NO	NO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NO
3/4/2003	0.70	0.00		---	0.00		5.00	0.05	0.05	0.15	0.15	0.15	0.00	0.05	0.00	0.00	5.00
3/18/2003	6.00	6.00	0.00	---	0.00	0.00	5.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.25
4/1/2003	14.00	0.00	0.10	---	0.05	0.00	80.00	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.00	0.00	0.50
4/15/2003	100.00	0.05	0.00	0.10	0.00	0.00	88.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10
4/30/2003	2.35	0.00	0.10	0.10	0.00	0.00	0.00	0.05	0.05	0.10	0.10	0.05	0.00	0.00	0.05	0.00	0.50
5/14/2003	6.00	0.00	0.00	0.00	0.00	0.00	47.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.00
5/27/2003	12.00	0.00	0.00	0.00	0.00	0.00	35.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.00
6/10/2003	16.00	0.20	0.18	0.00	0.25	0.00	74.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.24
6/24/2003	16.00	0.20	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38
7/8/2003	12.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	21.00

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-0	MW-1	MW-1A	MW-1R	MW-2	MW-3	MW-4R	MW-4A	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-19
7/23/2003	12.00	0.00	0.00	0.00	0.15	0.00	37.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	11.00
8/4/2003	11.00	0.00	0.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.00
8/19/2003	17.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00
9/3/2003	8.00	0.00		0.00	0.00	0.00	7.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		15.00
9/17/2003	15.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.50
10/3/2003	18.00	0.00	0.00	0.00	0.00	4.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00
10/15/2003	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.50
10/31/2003		0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.50
11/11/2003	2.20	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/26/2003	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/3/2003	7.00	0.00	5.00	0.00	0.00	0.00		1.00	2.00	0.00	2.00	2.00	1.00	7.00	1.00	2.00	3.00
12/15/2003	3.74	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78
12/31/2003	2.32	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/13/2004	2.72	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/27/2004	2.16	0.00		0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.30
2/12/2004	2.52	0.00			0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.00
2/25/2004	0.40	0.00	0.00	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94
3/8/2004	3.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	12.00
3/22/2004	4.60	0.00	0.00	0.00	0.00	0.00		0.05	0.10	0.10	0.10	0.05	0.05	0.00	0.00	0.00	1.40
4/7/2004	3.00	1.00	2.00	1.00	1.00	0.00		0.00	0.00	2.00	3.00	2.00	0.00	0.00	0.00	0.00	77.00
4/23/2004	26.00	2.00		0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00
5/6/2004	6.00	0.00				0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/2004	6.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.00
6/3/2004	6.00			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		4.00
6/17/2004	24.00			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.00
6/29/2004	7.00			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00
7/16/2004	17.00			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00
7/30/2004	20.00			0.00	0.00	0.00		0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00	0.00	0.00
8/11/2004				0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/26/2004	0.90			0.00	0.00	0.00		0.00	0.00	0.00	1.15	0.00		0.00	0.00		0.00
9/10/2004	6.00			0.00	0.00			0.10	0.00	0.00	0.10	0.05		0.00	0.00		0.00
9/24/2004	33.00			0.00				0.05	0.05	0.05	1.45	0.00		0.00	0.00		0.85
10/8/2004	16.00			0.00				0.10	0.00	0.00	0.10	0.05	0.00	0.00	0.00	0.00	0.00
10/22/2004	33.00			0.00				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/5/2004	15.00			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/19/2004	10.00			0.00	0.00	0.00		0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00
11/29/2004	7.00			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/16/2004	0.50			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/30/2004	0.83			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/2005	3.50			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/2005	3.86			0.00	0.00	0.00	83.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.20
2/8/2005	23.00		0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
2/25/2005	22.50			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
3/9/2005	3.68			0.00	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/22/2005	1.90			0.00	0.00	0.00	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/2005	1.05	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/20/2005	1.02	0.00	0.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/2005	1.18	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-0	MW-1	MW-1A	MW-1R	MW-2	MW-3	MW-4R	MW-4A	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-19
5/17/2005	0.83	0.00	0.00	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/2005	0.25	0.00	0.00	0.00	0.00	0.00	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/2005	6.00	0.00	0.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/2005	6.00		0.00		0.00	0.00	96.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33
7/15/2005	1.30		0.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cnl
7/29/2005	6.00		0.00		0.00	0.00	96.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	6.50
8/12/2005	12.50		0.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00
8/26/2005	13.50		0.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.50
9/9/2005	16.32		0.00		0.00	0.00	72.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00
9/26/2005	6.70		0.00	0.00	0.00	0.00	88.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/2005	5.60		0.00	0.00	0.00	0.00	64.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.80
10/21/2005	6.70		0.00	0.00	0.00	0.00	30.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/2005	2.13		0.00	0.00	0.00	0.00	88.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/18/2005	3.70		0.00	0.00	0.00	0.00	27.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/2/2005	6.00		0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/7/2005	0.54																
12/14/2005	1.20	0.00	0.00	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/21/2005	0.72																
12/29/2005	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/4/2006	0.95																
1/10/2006	0.00		0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/2006	3.50		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/2006	0.85		0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/22/2006	0.53		0.00	0.00	0.00	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/8/2006	0.70		0.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/23/2006	4.12		0.00	0.00	0.00	0.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/7/2006	0.85	0.00	0.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80
4/19/2006	3.10	0.00	0.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/2006	0.60	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/2006	2.22	0.00	0.00	0.00	0.00	0.00	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.50
5/31/2006	2.68	0.00	0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/2006	2.60	0.00	0.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/2006	0.25	0.00	0.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35
7/12/2006	2.40	0.00	0.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/2006	1.74	0.00		0.00	0.00	0.00	98.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00
8/9/2006	2.70	0.00	0.00	0.00	0.00	0.00	45.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00
8/25/2006	0.00	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00				0.00	0.00	0.00	0.00
9/7/2006	0.00	0.00		0.00	0.00	0.00	45.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00
9/20/2006	5.00	0.00	0.00	0.00	0.00	0.00	5.00	0.00	0.00					0.10	0.00	0.00	0.00
10/6/2006	0.00	0.00	0.00	0.00	0.00	0.00	14.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/13/2006	2.00																
10/19/2006	0.00	0.00		0.00	0.00	0.00	8.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/24/2006	5.00																
11/3/2006	1.10	0.00		0.00	0.00	0.00	0.85	0.15	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/12/2007	0.00	0.00		0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/2007	2.00																
1/24/2007	0.10	0.00		0.00	0.00	0.00	42.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/2007	0.20																

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-0	MW-1	MW-1A	MW-1R	MW-2	MW-3	MW-4R	MW-4A	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-19
2/7/2007	6.40	0.00		0.00	0.10	0.15	52.40	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
2/21/2007	5.40	0.00		0.00	0.10	0.15	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
2/28/2007	3.10																
3/7/2007	1.40				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/16/2007	0.80																
3/21/2007	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/4/2007	2.10			0.00	0.00	0.00	53.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/19/2007	0.10			0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/2007	0.00			0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
5/17/2007	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/2007	0.10			0.05	0.00	0.00	0.00	0.10		0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.05
6/15/2007	2.10			0.20	0.00	0.20	36.20	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/2007	0.00			0.00	0.00	0.00	42.30	0.00			0.00	0.00		0.00	0.00	0.00	0.00
7/13/2007	0.50			0.00	0.00	0.00	78.60	0.00			0.00	0.00		0.00	0.00	0.00	0.00
7/26/2007	0.00			0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00
8/10/2007	16.60			0.00	0.00	0.00	0.00	0.00						0.00	0.00	0.00	0.00
8/13/2007	18.30																
8/23/2007	4.20			0.00	0.00	0.00	0.00	0.00						0.00	0.00	0.00	0.00
8/31/2007	4.70																
9/7/2007	0.00			0.00	0.00	0.00	9.70	0.00						0.00	0.00	0.00	0.00
9/14/2007	0.00																
9/19/2007	0.00			0.00	0.00	0.00		0.00						0.00	0.00	0.00	1.40
9/28/2007	0.00																
10/5/2007	0.00			0.00	0.00	0.00	0.00	0.00						0.00	0.00	0.00	0.00
10/19/2007	0.55			0.00	0.00	0.00	8.90	0.00						0.00	0.00	0.00	0.00
11/2/2007	0.05			0.00	0.00	0.00	0.05	0.00						0.00	0.00	0.00	0.05
11/16/2007	10.70			0.00	0.00	0.05	1.15	0.00					0.05	0.00	0.05	0.00	0.10
11/21/2007	0.05																
11/30/2007	0.00			0.05	0.00	0.00	0.75	0.00					0.00	0.00	0.00	0.00	0.05
12/6/2007	0.00																
12/11/2007	0.05			0.00	0.05	0.00	0.05	0.00	0.05	0.05	0.10	0.05	0.05	0.05	0.05	0.00	0.05
12/28/2007	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/11/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/2008	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/2008	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/22/2008	0.00			0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/12/2008	0.02			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/21/2008	0.35			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/2008	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/2008	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/2008	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/15/2008	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/2008	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
6/11/2008	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00	0.00
6/25/2008	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	
7/11/2008				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	
7/25/2008				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
8/8/2008	0.00		0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-0	MW-1	MW-1A	MW-1R	MW-2	MW-3	MW-4R	MW-4A	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-19
8/22/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/30/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/13/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/26/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/8/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/24/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/9/2009	0.80		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/21/2009	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/4/2009	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/2009	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/5/2009	0.50		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/17/2009	0.50		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/2/2009	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/2009	0.10		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/2009	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/2009	0.60		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/2009	0.00		0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/2009	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/26/2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/2009	2.70		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/2009	2.90		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/7/2009	0.50		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/21/2009	2.70		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/2009	0.00		0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/2009	3.50		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/2009	1.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/2009	1.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/20/2009	3.30		0.00				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
12/4/2009	1.30		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70
12/18/2009	2.80		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/23/2009	4.40																
12/30/2009	0.95		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/2010	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/2010	0.95		0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/9/2010	3.40		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/2/2010	0.25		0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/19/2010	0.00		0.00	0.00				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/7/2010	0.40			0.15	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/2010	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/2010	0.95		0.15		0.20				0.15			0.20	0.15	0.15	0.10	0.15	0.15
5/14/2010	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.10	0.00
5/28/2010	0.00		0.00		0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/2010	0.00		0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/2010	1.25			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.00

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-0	MW-1	MW-1A	MW-1R	MW-2	MW-3	MW-4R	MW-4A	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-19
7/1/2010	3.80																
7/12/2010	0.00			0.00	0.10	0.10		0.10	0.10	0.15	0.10	0.10	0.15	0.00	0.00	0.00	4.25
7/16/2010	0.00																
7/23/2010	5.00			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.60
7/30/2010														0.00	0.00	0.00	
8/5/2010				0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8/13/2010	4.70																
8/20/2010	1.70				0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00
8/27/2010	3.90																
9/2/2010	0.20			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00				2.15
9/10/2010	4.75																
9/16/2010	4.85			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
9/24/2010	0.55																
10/5/2010	2.95			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
10/8/2010	1.60																
10/14/2010	0.00			0.00	0.00	0.00		0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.20
10/22/2010	10.00																
10/29/2010	10.00			0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
11/5/2010	5.00																
11/12/2010	10.00			0.00	0.00	0.00		0.05	0.00	0.00			0.00	0.00	0.00	0.00	0.00
11/19/2010	10.00																
11/24/2010	10.00			0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/3/2010	0.45																
12/10/2010	10.00			0.00	0.00	0.00		0.05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
12/17/2010	1.25																
12/30/2010	10.00			0.00									0.00	0.00	0.00	0.00	
1/7/2010	10.00																
01/14/11	6.00			0.00	-	-		0.00	-	-	-	-	0.05	0.00	0.00	0.00	-

POST RETROFIT MONITORING DATA

Well	MW-0 REP	MW-1	MW-1A	MW-1R	MW-2	MW-3	MW-4 REP	MW-4A	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-19 REP
2/17/2012	100.00	NM	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	8.00	NM	NM	NM	100.00
2/23/2012	0.00	NM	NM	NM	NM	NM	100.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	100.00
3/2/2012	34.00	NM	NM	0.00	0.00	0.00	87.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	100.00
3/8/2012	59.00	NM	NM	NM	NM	NM	100.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	100.00
3/16/2012	0.00	NM	0.00	NM	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	NM	NM	NM	100.00
3/21/2012	0.00	NM	NM	NM	NM	NM	95.00	36.00	NM	NM	NM	NM	0.00	NM	NM	NM	100.00
3/30/2012	16.00	NM	0.00	NM	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	100.00
4/6/2012	NM	NM	NM	NM	NM	NM	52.00	10.00	NM	NM	NM	NM	0.00	NM	NM	NM	100.00
4/13/2012	26.00	NM	0.00	NM	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	100.00

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	E1R	E2RR	E3R	E4R	E5R	E6R	E7R	E8R	M1R	M2R	M3R	M4R	M5R	M6R	M7R	M8R	M9R	M10R
08/23/00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09/12/00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09/26/00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/11/00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/22/00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/08/00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/25/00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/06/00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/20/00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/29/00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01/08/01	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01/12/01	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02/09/01	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02/15/01	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02/26/01	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/09/01	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/16/01	0.00	0.05	0.00	0.05	0.00	0.05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/23/01	0.00	0.20	0.00	0.00	0.00	0.04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/30/01	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/06/01	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/13/01	0.00	0.25	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/20/01	0.00	0.70	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/27/01	0.00	0.70	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/04/01	0.00	1.50	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/11/01	0.00	0.30	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/18/01	0.00	1.75	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/25/01	0.00	0.55	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/01/01	0.00	0.25	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/08/01	0.00	0.50	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/15/01	0.00	1.05	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/22/01	0.00	0.90	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/29/01	0.00	0.60	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/06/01	0.00	0.60	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/13/01	0.00	1.25	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/20/01	0.00	2.50	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/27/01	0.00	0.50	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/03/01	0.00	10.30	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/10/01	0.00	18.60	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/17/01	0.00	0.00	0.00	0.30	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/24/01	1.25	NS	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/31/01	3.50	NS	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09/07/01	1.00	9.90	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09/14/01	NS	0.40	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09/21/01	NS	0.00	NS	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09/28/01	0.00	1.20	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/04/01	0.00	2.50	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/12/01	0.00	2.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/19/01	5.30	14.10	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/26/01	3.30	7.10	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/02/01	0.00	3.10	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/09/01	2.00	3.70	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/16/01	0.00	3.20	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/23/01	1.10	3.30	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/30/01	1.60	2.30	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/07/01	1.30	3.10	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/14/01	1.10	3.20	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/28/01							---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01/04/02	2.20	3.50	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01/25/02	2.00	3.30	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02/18/02	0.00	0.00	0.00	0.00	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/05/02	0.75	1.10	0.05	0.05	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/19/02	1.40	2.40	0.00	0.00	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/02/02	1.10	1.75	0.00	0.00	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/16/02	0.00	0.00	0.00	0.00	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/30/02	0.15	N.O.	0.00	3.00	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/15/02	0.05	N.O.	0.10	0.00	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/28/02	0.00	0.05	0.00	1.00	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/11/02	0.00	N.O.	0.05	0.50	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/28/02	0.00	0.00	0.00	N.M.	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/09/02	0.00	0.00	0.00	0.00	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/24/02	0.00	0.00	0.00	0.00	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/07/02	N.M	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/20/02	N.M	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	E1R	E2RR	E3R	E4R	E5R	E6R	E7R	E8R	M1R	M2R	M3R	M4R	M5R	M6R	M7R	M8R	M9R	M10R
09/04/02	N.M.	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09/17/02	0.00	2.20	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/02/02	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/17/02	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/29/02	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/12/02	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/26/02	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/10/02	0.00	2.95	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/23/02	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01/07/03	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01/21/03	0.00	0.00	0.00	0.00	0.15	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02/04/03	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02/19/03	0.00	100.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02/26/03	0.00	100.00		0.00			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/04/03	0.15	100.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/11/03	0.00	100.00	0.00				---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/18/03	0.00	15.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/25/03	0.00	1.75	0.00	0.00			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/01/03	0.00	3.75	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/08/03	0.00	1.25	0.00	0.00			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/15/03	0.00	1.55	0.00	0.35	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/21/03	0.00	31.00	0.00	0.00			0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	4.00
04/30/03	0.45	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/07/03	0.50	11.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.20
05/14/03	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/20/03	0.00	8.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/27/03	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/04/03		0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67
06/10/03	0.00	0.80	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/17/03	0.00	0.40	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/24/03	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/02/03	0.00	0.93	0.00	0.00			0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/08/03	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10
07/15/03	0.00	1.68	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.70
07/23/03	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98
07/29/03	0.00	6.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
08/04/03		8.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.40	0.00	0.00	0.00	0.00	0.00	3.20
08/12/03		16.50	0.00	0.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/19/03		29.00	0.00	0.00	0.00	0.00				0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/26/03	0.00	6.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.50
09/03/03	CNA	10.50	0.00	0.00	0.00	0.00	0.00	CNA	CNA	0.00	0.00	0.00	0.00	0.00	0.00	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/10/03	0.00	35.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/17/03	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/24/03	0.00	9.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/03/03	0.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/08/03	0.00	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/15/03	0.00	54.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/22/03	0.00	21.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/31/03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/07/03	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/03	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/19/03	0.00	7.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/26/03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/03/03	2.00	8.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/09/03	0.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/15/03	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/24/03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/31/03	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/06/04	0.00	6.50	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/13/04	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/22/04	0.00	23.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/27/04	0.00	2.40	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/04/04	0.00	1.52	NA	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/18/04	0.00	34.00	NA	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/25/04	0.00	2.40	NA	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/04/04	0.00	6.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/08/04	0.00	14.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/17/04	0.00	6.00	NA	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
03/22/04	1.00	2.50	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/29/04	0.00	2.65	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
04/07/04	10.00	80.00	0.00	1.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
04/14/04	0.00	0.00	0.00	1.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/23/04	0.00	31.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	E1R	E2RR	E3R	E4R	E5R	E6R	E7R	E8R	M1R	M2R	M3R	M4R	M5R	M6R	M7R	M8R	M9R	M10R
04/27/04	9.00	37.00	0.00	13.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00
05/06/04	0.00	6.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/11/04	0.00	5.20	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/20/04	0.00	9.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/25/04	0.00	7.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/03/04	0.00	7.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/17/04	0.00	6.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/23/04	0.00	4.82	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/29/04	0.00	2.38	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/09/04	0.00	3.60	0.00	0.00			0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00
07/16/04	0.00	6.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00
07/23/04	0.00	6.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			0.00	0.00	0.00	0.00
07/30/04	0.00	0.55	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			0.00	0.00	0.00	0.00
08/06/04	0.00	2.72	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			0.00	0.00	0.00	0.00
08/11/04	0.00	4.78	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			0.00	0.00	0.00	0.00
08/17/04	1.30	6.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			0.00	0.00	0.00	0.00
08/26/04	0.15	1.90	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			0.00	0.00	0.00	0.00
09/03/04		1.25	0.00	0.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
09/10/04	0.00	1.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00		0.00	0.00		0.00
09/16/04		0.85	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
09/24/04	0.75	2.85	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
10/08/04	0.00	2.28	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05			0.00	0.00	0.00	0.00
10/22/04	0.00	3.88	0.00	0.00	0.00	0.00				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
11/05/04	0.00	2.16	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00		0.00	0.00	0.00	0.00
11/19/04	0.00	2.44	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00		0.00	0.00	0.00	0.00
11/29/04	0.00	0.23	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00		0.00	0.00		0.00
12/16/04	0.00	0.40	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
12/30/04	0.75	0.25	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
01/14/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
01/26/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/08/05	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/25/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/09/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/22/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/06/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/20/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/06/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/17/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/31/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/16/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/30/05	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/15/05	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/26/05	0.00	4.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/29/05	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/05/05	0.00	6.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	4.00
08/12/05	0.00	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/19/05	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/26/05	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/09/05	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/26/05	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/07/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/21/05	0.00	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/04/05	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/18/05	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/02/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/14/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/29/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/10/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/25/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/08/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/22/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/08/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/23/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/07/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/19/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/03/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/17/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/31/06	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/14/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/28/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/12/06	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/27/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/09/06		0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	E1R	E2RR	E3R	E4R	E5R	E6R	E7R	E8R	M1R	M2R	M3R	M4R	M5R	M6R	M7R	M8R	M9R	M10R
08/25/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/07/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/20/06		0.95	0.00		0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/06/06		0.15	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/19/06		0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
11/03/06		0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/12/07	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
01/24/07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/07/07	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/21/07	0.80	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/07/07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/21/07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/04/07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/19/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/04/07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/17/07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/01/07	0.05	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/15/07	0.20		0.00	0.00	0.00	0.00	0.00		0.80	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.10	0.05	0.00	0.00	0.00	0.00	0.00
06/29/07	0.00		0.00	0.00	0.00	0.00	0.00		1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/13/07	0.00		0.00	0.00	0.00	0.00	0.00		1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/26/07		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/10/07	0.00		0.00	0.00	0.00	0.00			0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/23/07	0.00		0.00	0.00	0.00	0.05			0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/07/07	0.00		0.00	0.00	0.00	0.00			0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
09/19/07				0.00	0.00	0.00					0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
10/05/07			0.00	0.00	0.00	0.00					0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/19/07			0.10	0.00	0.00	0.00					0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
11/02/07			0.00	0.05	0.00	0.00					0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
11/16/07			0.00	0.00	0.00	0.00					0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.05
11/30/07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/11/07	0.05	0.00	0.00	0.00	0.00	0.00	0.05	0.00			0.00		0.00	0.05	0.05	0.05	0.00	0.00	0.00	0.05	0.00	0.05	0.00	0.05
12/28/07	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/11/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/22/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/07/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/22/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/12/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/21/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/03/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/16/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/01/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/15/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/30/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/11/08		0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00		0.00	0.00			0.00	0.00	0.00
06/25/08		0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/11/08	0.00	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					0.00	0.00		0.00	0.00	0.00
07/25/08	0.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/08/08	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/22/08		0.00				0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/04/08	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/18/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/02/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/30/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/13/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/26/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/08/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/24/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/09/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/21/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/04/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/20/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/05/09	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/17/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/02/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/17/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/29/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/12/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/28/09	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/11/09		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/26/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/10/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/24/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	E1R	E2RR	E3R	E4R	E5R	E6R	E7R	E8R	M1R	M2R	M3R	M4R	M5R	M6R	M7R	M8R	M9R	M10R
08/07/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/21/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/04/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/18/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/02/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/20/09	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	0.15	0.10	0.00	0.00	0.00		0.00	0.00
12/04/09			0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
12/18/09		2.55	0.00	0.00	0.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		
12/30/09	0.50	0.00	0.00	0.00	0.00						0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/15/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/29/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/09/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/02/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/19/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/07/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/16/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/30/10	0.30	0.15	0.15	0.15	0.15	0.00	0.15	0.00	0.35	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.25	0.00	0.15	0.10	0.00	0.00	0.00
05/14/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.05	0.10	0.10	0.00	0.00	0.05	0.10	0.05	0.05	0.05
05/28/10	0.00	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
06/11/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
06/25/10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.05	0.00	0.10	0.05	0.05	0.00	0.00	0.00
07/01/10		0.00																						
07/12/10			0.00	0.00	0.00	0.10	0.15	0.20	0.15	0.15	0.30	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/16/10		0.00																						
07/23/10	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/30/10		0.60																						
08/05/10	0.00	3.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/13/10		0.00																						
08/20/10	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/27/10		0.00																						
09/02/10	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/10/10		0.00																						
09/16/10	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/24/10		0.00																						
10/05/10	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/08/10		0.00																						
10/14/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/22/10																								
10/29/10	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/05/10																								
11/12/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/19/10																								
11/24/10	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/03/10																								
12/10/10	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/17/10																								
12/30/10	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/14/11	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

POST RETROFT MONITORING DATA

Well	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	E1R	E2RR	E3R	E4R	E5R	E6R	E7R	E8R	M1R	M2R	M3R	M4R	M5R	M6R	M7R	M8R	M9R	M10R
02/17/12	0.00	0.00	0.00	0.00	0.00	60.00	0.00	0.00	81.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/23/12	NM	NM	NM	NM	NM	NM	NM	NM	100.00	NM	NM	NM	NM	NM	NM	NM	NM	92.00	NM	NM	NM	NM	NM	NM
03/02/12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00
03/08/12	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM
03/16/12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.00	11.00	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/21/12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
03/30/12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/06/12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
04/13/12	0.00	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Inaccessible
Destroyed
Clogged
Damaged

Samp. Pt.	Schley South	3B	5	6	7	8	9	10
02/18/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/05/02		0.00	0.00	0.00	0.00	0.05	0.10	0.05
03/19/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/02/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/16/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/30/02		0.05	0.00	0.05	0.05	0.15	0.00	0.05
05/15/02		0.00	0.00	0.00	0.00	0.05	0.00	0.00
05/28/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/11/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/28/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/09/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/24/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/07/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/20/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/04/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/17/02		0.00	N.O.	0.00	0.00	0.00	0.00	0.00
10/02/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/26/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/10/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/23/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/07/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/21/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/04/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/19/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/26/03								
03/04/03		0.00	0.00		0.00			
03/11/03								
03/18/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/25/03								
04/01/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/08/03								
04/15/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/30/03		0.00	0.00	0.00	0.00	CNL	CNL	CNL
05/14/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/27/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/10/03		0.25	0.00	0.00	0.00	0.00	0.00	0.00
06/24/03		0.15	0.00	0.00	0.00	0.00	0.00	0.00
07/08/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/23/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/04/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/19/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/03/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/17/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/03/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/15/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/31/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/03/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/15/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/31/03		0.00	0.00	0.00	0.00	0.00	0.00	CNL
01/13/04		7.00	0.00	0.00	0.00	0.00	0.00	0.00
01/27/04		1.56	0.00	0.00	NA	0.00	0.00	0.00
02/12/04		0.00	NA	NA	NA	NA	NA	0.00
02/25/04		0.00	0.00	NA	NA	NA	0.00	0.00
03/08/04		0.00	0.00	NA	NA	NA	NA	0.00
03/22/04		0.00	0.00	NA	NA	NA	0.00	0.00
04/07/04		1.00	0.00	0.00	0.00	0.00	0.00	0.00
04/23/04		1.00	0.00	0.00	0.00	0.00	0.00	0.00
05/06/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/20/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/03/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/17/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/29/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/16/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/30/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/11/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/26/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/10/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/24/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/08/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/22/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/05/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/19/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/29/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/16/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/30/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/14/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/26/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/08/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/25/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/09/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/22/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/06/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/20/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/06/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/17/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/31/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/16/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/30/05			0.00	0.00	0.00	0.00	0.00	0.00
07/15/05			0.00	0.00	0.00	0.00	0.00	0.00
07/29/05			0.00	0.00	0.00	0.00	0.00	0.00
08/12/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/26/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/09/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/26/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/07/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/21/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/04/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/18/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/02/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/07/05								
12/14/05			0.00	CNL	0.00	0.00	0.00	0.00
12/21/05								
12/29/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/04/06								
01/10/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/18/06								
01/25/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/02/06								
02/08/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/15/06								
02/22/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/01/06								
03/08/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/16/06								
03/23/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/29/06								
04/07/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/12/06								
04/19/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/26/06								
05/03/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/10/06								
05/17/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/24/06								

Samp. Pt.	Schley North	4A	5	7B	7A
02/18/02		0.00	0.00	0.00	0.00
03/05/02		0.00	0.00	0.10	0.05
03/19/02		0.00	0.00	0.00	0.00
04/02/02		0.00	0.00	0.00	0.00
04/16/02		0.00	0.00	0.00	0.00
04/30/02		0.00	0.00	0.10	0.10
05/15/02		0.05	0.05	0.05	0.05
05/28/02		0.00	0.00	0.00	0.00
06/11/02		0.00	0.00	0.00	0.00
06/28/02		0.00	0.00	N.O.	0.00
07/09/02		0.00	0.00	N.O.	0.00
07/24/02		0.00	0.00	N.O.	0.00
08/07/02		0.00	0.00	0.00	0.00
08/20/02		0.00	0.00	0.00	0.00
09/04/02		0.00	0.00	0.00	0.00
09/17/02		0.00	0.00	0.00	0.00
10/02/02		0.00	0.00	0.00	0.00
10/17/02		0.00	0.00	0.00	0.00
10/29/02		0.00	0.00	0.00	0.00
11/12/02		0.00	0.00	0.00	0.00
11/26/02		0.00	0.00	0.00	0.00
12/10/02		0.00	0.00	0.00	0.00
12/23/02		0.00	0.00	0.00	0.00
01/07/03		0.00	0.00	0.00	0.00
01/21/03		0.00	0.00	0.00	0.00
02/04/03		0.00	0.00	0.00	0.00
02/19/03		0.00	0.00	0.00	0.00
02/26/03					
03/04/03			0.00	0.05	
03/11/03					
03/18/03		0.00	0.00	0.00	0.00
03/25/03					
04/01/03		0.00	0.00	0.00	0.00
04/08/03					
04/15/03		0.00	0.00	0.00	0.00
04/30/03		0.00	0.00	0.00	0.00
05/14/03		0.00	0.00	0.00	0.00
05/27/03		0.00	0.00	0.00	0.00
06/10/03		0.00	0.00	0.00	0.15
06/24/03		0.00	0.00		0.00
07/08/03		0.00	0.00		0.00
07/23/03		0.20	0.15		0.00
08/04/03		0.00	0.00		0.00
08/19/03		0.00	0.00		0.00
09/03/03		0.00	0.00		0.00
09/17/03		0.00	0.00		0.00
10/03/03		0.00	0.00		0.00
10/15/03		0.00	0.00		0.00
10/31/03		0.00	0.00		0.00
11/11/03		0.00	0.00		0.00
12/03/03		0.00	0.00		0.00
12/15/03		0.00	0.00		0.00
12/31/03		0.00	0.00		0.00
01/13/04		0.00	0.00		0.00
01/27/04		0.00	0.00		0.00
02/12/04		0.00	0.00		NA
02/25/04		0.00	0.00		0.00
03/08/04		0.00	0.00		0.00
03/22/04		0.00	0.00		0.00
04/07/04		0.00	0.00		2.00
04/23/04		0.00	0.00		1.00
05/06/04		0.00	0.00		0.00
05/20/04		0.00	0.00		0.00
06/03/04		0.00	0.00		0.00
06/17/04		0.00	0.00		0.00
06/29/04		0.00	0.00		0.00
07/16/04		0.00	0.00		0.00
07/30/04		0.00	0.00		0.00
08/11/04		0.00	0.00		0.00
08/26/04		0.00	0.00		0.00
09/10/04		0.00	0.00		0.00
09/24/04		0.00	0.00		0.00
10/08/04		0.00	0.00		0.00
10/22/04		0.00	0.00		0.00
11/05/04		0.00	0.00		0.00
11/19/04		0.00	0.00		0.00
11/29/04		0.00	0.00		0.00
12/16/04		0.00	0.00		0.00
12/30/04		0.00	0.00		0.00
01/14/05		0.00	0.00		0.00
01/26/05		CNM	CNM		CNM
02/08/05		0.00	0.00		0.00
02/25/05		0.00	0.00	0.00	0.00
03/09/05		0.00	0.00	0.00	0.00
03/22/05		0.00	0.00	0.00	0.00
04/06/05		0.00	0.00	0.00	0.00
04/20/05		0.00	0.00	0.00	0.00
05/06/05		0.00	0.00	0.00	0.00
05/17/05		0.00	0.00	0.00	0.00
05/31/05		0.00	0.00	0.00	0.00
06/16/05		0.00	0.00	0.00	0.00
06/30/05		0.00	0.00	0.00	0.00
07/15/05		0.00	0.00	0.00	0.00
07/29/05		0.00	0.00	0.00	0.00
08/12/05		0.00	0.00	0.00	0.00
08/26/05		0.00	0.00	0.00	0.00
09/09/05		0.00	0.00	0.00	0.00
09/26/05		0.00	0.00	0.00	0.00
10/07/05		0.00	0.00	0.00	0.00
10/21/05		0.00	0.00	0.00	0.00
11/04/05		0.00	0.00	0.00	0.00
11/18/05		0.00	0.00	0.00	0.00
12/02/05		0.00	0.00	0.00	0.00
12/07/05					
12/14/05		0.00	0.00	0.00	0.00
12/21/05					
12/29/05		0.00	0.00	0.00	0.00
01/04/06					
01/10/06		0.00	0.00	0.00	0.00
01/18/06					
01/25/06		0.00	0.00	0.00	0.00
02/02/06					
02/08/06		0.00	0.00	0.00	0.00
02/15/06					
02/22/06		0.00	0.00	0.00	0.00
03/01/06					
03/08/06		0.00	0.00	0.00	0.00
03/16/06					
03/23/06		0.00	0.00	0.00	0.00
03/29/06					
04/07/06		0.00	0.00	0.00	0.00
04/12/06					
04/19/06		0.00	0.00	0.00	0.00
04/26/06					
05/03/06		0.00	0.00	0.00	0.00
05/10/06					
05/17/06		0.00	0.00	0.00	0.00
05/24/06					

Samp. Pt.	Buttrick	1	2R	3R	4R	5	6	8	9	10	12R	13R	14R	16R	17R	18	Balcom
02/18/02		N.M.				0.00	0.00	0.00	17.00	0.00	0.00		0.00				
03/05/02		0.00				0.00	0.00	0.00	67.00	0.00	0.00		0.00	0.00			
03/19/02		0.00				0.00	0.00	0.00	87.00	N.O.	0.00		0.00	0.00			
04/02/02		0.00				0.00	0.00	0.00	87.00	N.O.	0.00		0.00	0.00			
04/16/02		0.00				0.00	0.00	0.00	100.00	N.O.	0.00		0.00	0.00			
04/30/02		0.00				0.00	N.O.	0.00	32.00	N.O.	0.00		N.F.	0.00			
05/15/02		0.00				0.00	N.O.	0.00	5.00	N.O.	0.00		N.F.	0.00			
05/28/02		0.00				0.00	N.O.	0.00	54.00	N.O.	N.O.		N.F.	0.00			
06/11/02		0.00				N.O.	N.O.	0.00	37.50	N.O.	N.O.		N.F.	N.O.			
06/28/02		0.00				N.O.	N.O.	N.O.	N.O.	N.O.	N.O.		N.O.	N.O.			
07/09/02		0.00				N.O.	N.O.	N.O.	N.O.	N.O.	N.O.		N.O.	N.O.			
07/24/02		0.00				N.O.	N.O.	N.O.	N.O.	N.O.	N.O.		N.O.	N.O.			
08/07/02		0.00				0.00	0.00	2.50	73.00	0.00	0.00		0.00	0.00			
08/20/02		0.00				0.00	0.00	2.60	3.75	0.00	0.00		0.00	0.00			
09/04/02		0.00				0.00	0.00	1.25	7.00	0.00	0.20		0.00	0.00			
09/17/02		0.00				0.00	0.00	0.00	0.00	26.00	0.00		2.50	0.00			
10/02/02		0.00				0.00	0.00	20.00	0.00	21.00	0.00		0.00	0.00			
10/17/02		0.00				0.00	0.00	0.00	20.00	1.50	0.00		0.00	0.00			
10/29/02		0.00				0.00	0.00	0.00	3.00	4.50	0.00		0.58	0.00			
11/12/02		0.00				0.00	0.00	0.00	18.00	0.00	0.00		0.00	0.00			
11/26/02		0.00				0.00	0.00	0.00	0.00	24.00	0.00		0.00	0.00			
12/10/02		0.00				0.00	0.00	2.00	100.00	4.50	0.20		0.00	0.00			
12/23/02		0.00				0.00	0.00	3.20	0.00	18.00	0.00		0.00	0.00			
01/07/03		N.O.				0.00	0.58	0.00	0.00	42.00	0.00		0.00	0.00			
01/21/03		0.00				0.00	0.00	0.55	11.00	11.00	0.00		0.00	0.00			
02/04/03		0.00				0.00	0.00	0.00	0.00	24.00	0.00		0.00	0.00			
02/19/03		0.00				0.00	0.00	2.00	100.00	4.50	0.20		0.00	0.00			
02/26/03		0.00				0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00			
03/04/03		0.00				0.00	0.00	0.00	0.00	1.60	0.00		1.20	0.00			
03/11/03																	
03/18/03		0.00				0.00	0.00	0.00	0.00	4.00	0.00		2.50	0.00			
03/25/03																	
04/01/03		0.00				0.00	0.00	0.00	0.00	4.00	0.00		2.50	0.00			
04/08/03																	
04/15/03		0.00				0.00	0.00	0.00	0.00	2.35	0.00		0.80				
04/30/03		0.00				0.00	0.00	0.00	0.00	12.00	0.05		0.30	0.00			
05/14/03		0.00					0.00	0.00	0.00	4.80	0.00		0.00	0.00			
05/27/03		0.00					0.00	0.00	0.00	2.08	0.00		1.10	0.00			
06/10/03		0.00					0.00	0.00	0.00	0.80	0.00		0.00	0.00			
06/24/03		0.15					0.00	0.00	0.00	2.68	0.00		0.00	0.00			
07/08/03		0.00					0.00	0.00	0.00	6.00	0.00		0.00	0.00			
07/23/03		0.00					0.00	0.46	0.00	0.30	0.00		0.15	0.00			
08/04/03		0.00					0.00	0.00	0.00	3.90	0.00		0.00	0.00			
08/19/03		0.00					0.00	0.00	0.00	0.56	0.00		0.00	0.00			
09/03/03		0.00					0.00	0.00	0.40	18.50	4.00		0.00	11.00			
09/17/03		0.00					0.00	0.00	0.00	6.00	7.00		0.00	0.00			
10/03/03		0.00					0.00	0.00	0.00	6.00	0.00		0.00	0.00			
10/15/03		0.00					0.00	0.00	0.00	0.00	0.00		0.00	30.00			
10/31/03		0.00					0.00	0.00	0.00	0.00	0.00		0.00	0.00			
11/11/03		0.00					0.00	0.00	0.00	1.06	0.00		0.00	0.00			
12/03/03		0.00					0.00	0.00	0.00	7.00	0.00		1.00	0.00			0.00
12/15/03		0.00					0.00	0.00	0.00	0.00	0.00			0.00			
12/31/03		0.00					0.00	0.00	0.00	43.00	0.00			0.00			
01/13/04		0.00					0.00	0.00	0.00	3.06	0.00			0.00			
01/27/04		0.00					0.00	0.00	7.20	14.00	0.00			0.00			
02/12/04		0.00					0.00	0.00	0.00	0.00	0.00			0.00			
02/25/04		0.00					0.00	0.00	0.00	0.13	0.00			0.00			
03/08/04		1.00					0.00	0.00	0.00	0.00	0.00			0.00			
03/22/04		0.00					0.00	0.00	0.00	1.05	0.00						
04/07/04		1.00					0.00	0.00	0.00	93.00	0.00						
04/23/04		0.00					0.00	0.00	0.00	36.00	0.00						
05/06/04		1.00					0.00	0.00	0.00	0.00	0.00						
05/20/04		0.00					0.00	0.00	0.00	21.00	0.00						
06/03/04		0.00					0.00	0.00	0.00	0.00	0.00						
06/17/04		0.00					0.00	0.00	0.00	3.24	0.00						
06/29/04		0.00					0.00	0.00	0.00	2.80	0.00						
07/16/04		0.00					0.00	0.00	0.00	0.00	0.00						
07/30/04		0.00					0.00	0.00	0.00	0.00	0.00						
08/11/04		0.00					0.00	0.00	0.00	0.00	0.00						
08/26/04		0.00						0.00	0.00	3.30	0.05						
09/10/04		0.00						0.00	0.00	0.50	1.35						
09/24/04		0.00						0.00	0.00	2.40	0.10						
10/08/04		0.00						0.00	0.00	0.68	0.00						
10/22/04		0.00					0.00	0.00	0.00	2.40	0.10						
11/05/04		0.00					0.00	0.00	0.00	0.00	0.00						
11/19/04		0.00					0.00	0.00	0.00	0.00	0.00						
11/29/04		0.00					0.00	0.00	0.00	0.00	0.00						
12/16/04		0.00					0.00	0.00	0.00	0.00	0.00						
12/30/04		0.00					0.00	0.00	0.00	0.00	0.00						
01/14/05		0.00					0.00	0.00	0.00	0.00	0.00					0.00	
01/26/05		0.00					0.00	0.00	0.00	0.00	0.00						
02/08/05		0.00					0.00	0.00	0.00	0.00	0.00						
02/25/05		0.00	0.00	0.00	0.00		0.00	0.00	0.00	8.00	0.00	0.00	0.00	5.20	0.00	0.00	
03/09/05		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
03/22/05		0.00	0.00	0.00	0.00		0.00		0.00	6.00	6.00	5.50	0.00	7.00	20.40	0.00	
04/06/05		0.00	0.00	0.00	0.00		0.00	0.00	0.00	9.00	1.70	0.45	0.00	9.00	0.35	0.00	
04/20/05		0.00	0.00	0.00	0.00		0.00	0.00	2.68	9.00	2.72	1.16	7.00	6.00	0.00	0.00	
05/06/05		0.00	0.00	0.00	0.00		0.00	0.00	0.00	9.00	7.00

Inaccessible
Destroyed
Clogged
Damaged

Samp. Pt.	Schley South	3R	5	6	7	8	9	10	Schley North	4A	5	7R	7A	Buttrick	1	2R	3R	4R	5	6	8	9	10	12R	13R	14R	16R	17R	18	Balcom	Balcom-2	Balcom-4
05/31/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	18.00	12.00	0.00	0.00	5.25	0.00	0.00		0.00	0.00
06/07/06																							18.00	19.00			10.00					
06/14/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	15.00	0.00	0.00	0.00	0.53	0.00	0.00		0.00	0.00
06/21/06																							8.00	1.92			0.50					
06/28/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	1.74		0.00	0.00	0.00	7.00	8.00	0.35	0.00	8.00	7.00	0.00		0.00	0.00
07/06/06																		0.00					8.00	3.78			17.00	0.00				
07/12/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	14.00	7.00	2.34	1.32	16.00	0.00	0.00		0.00	0.00
07/19/06																		0.00					15.00	5.15	3.50	4.50	8.00	3.00				
07/27/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	3.64	1.30	0.00	21.00	0.00	0.00		0.00	0.00
08/03/06																							0.45	0.25			14.00	0.00				
08/09/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	10.00	6.00	0.80	0.25	2.40	0.00	0.00		0.00	0.00
08/17/06																							6.00	4.56			0.15	0.00				
08/25/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		3.30	0.00	0.00	2.20	6.00	2.60	0.00	0.00	0.00	0.00		0.00	0.00
08/30/06																							0.55	7.00			10.00					
09/07/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	1.52	6.00	0.00	0.75	5.25	0.35	0.00		0.00	0.00
09/15/06																							1.05	0.25			0.25					
09/20/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	3.00	10.00	0.00	0.00	0.00	3.00	0.00		0.00	0.00
09/29/06																							0.00	0.00			2.00					
10/06/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		4.00	0.00	0.00	3.00	6.00	0.00	0.15	0.55	0.00	0.00		0.00	0.00
10/13/06																				0.00			7.00	0.15			2.00					
10/19/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	7.00	6.00	0.00	1.50	13.00	0.00	0.00		0.00	0.00
10/24/06																				0.10			9.00	0.00			10.00					
11/03/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.05	0.00	0.00	0.00		0.00	0.00	0.15	0.00		0.00	0.00	0.00	18.00	0.75	0.05	0.00	0.70	0.25	0.15		0.00	0.00
01/12/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	6.00	0.00	0.00	0.00	3.00	2.00	0.00		0.00	0.00
01/15/07																							14.00	18.00			4.00					
01/24/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	13.00	0.70	0.00	0.00	3.80	0.70	0.00		0.00	0.00
01/31/07																							10.20	0.00			0.50					
02/07/07		0.00	0.10	0.10	0.00	0.00	0.10	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00			0.00	0.00	0.00	22.00	0.00		1.00	2.30	0.00	0.00		0.00	0.20
02/16/07																							0.10	0.00			0.10					
02/21/07		0.00	0.00		0.00			0.00		0.00	0.00		0.00		0.00	0.00	0.00			0.00	0.00	0.20	0.00	2.30	0.00	0.30		0.00	0.00		0.00	
02/28/07																							0.00				6.50					
03/07/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00			0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
03/16/07																											3.30					
03/21/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
03/28/07																											0.10					
04/04/07		0.00	0.00	0.00	0.00	0.20	0.00	0.10		0.20	0.00	0.00	0.00		0.00	0.10	0.00	0.10		0.00	0.00	0.00	2.00	14.80	0.00	0.00	0.40	0.80	0.00		0.00	0.00
04/13/07																								0.00								
04/19/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
04/26/07																								0.00								
05/04/07		0.00	0.00	0.00	0.10	0.00	0.00	0.10		0.10	0.00	0.10	0.00		0.10	0.00	0.10	0.10		0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.30	0.10	0.00		0.00	0.00
05/17/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.10		0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00		0.00	0.00
06/01/07		0.10	0.00	0.05	0.00	0.05	0.00	0.05		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.05	0.00	0.00	0.10	0.00	0.05	0.00	0.00	0.05	0.05		0.00	0.00
06/15/07		0.00	0.10	0.00	0.20	0.00	0.00	0.20		0.15	0.00	0.00	0.00		0.25	0.10	0.05	0.00		0.00	0.20	0.10	5.00	0.25	0.30	0.35	0.90	0.20	0.00		0.15	0.05
06/19/07																							0.00									
06/29/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	18.40	1.40	5.30	0.00	0.90	0.00	0.00		0.00	0.00
07/06/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	9.20	0.00	1.20	0.00		0.00	0.00		0.00	0.00
07/13/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	1.40	7.80	0.00	0.00		0.00	0.00
07/20/07																							0.20		0.00		21.50					
07/26/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
08/03/07																											8.80					
08/10/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	5.90	0.00	0.00	0.00	3.80	0.00	0.00		0.00	0.00
08/13/07																							4.20				0.30					
08/23/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	3.20	0.00	0.00	0.00	1.30	6.20	0.00		0.00	0.00
08/31/07																							1.10				6.50	1.10				
09/07/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	1.40	0.00	0.00		0.00	0.00
09/14/07																							0.05				1.20	0.00				
09/19/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.25		0.00	0.00	0.00	0.00	11.00	0.00	0.00			0.00
09/28/07																							0.04				9.00	0.00				
10/05/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		1.30	4.20	0.20	0.00	1.80	0.00	0.00		0.00	0.00
10/12/07																											16.10					
10/19/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.05	11.60	1.60	0.00	16.40	0.00	0.00		0.00	0.00
10/25/07																								1.60			2.50					
11/02/07		0.00	0.20	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.10	0.00		3.80	0.35	0.15	0.10	2.00	0.00	0.05		0.00	0.00
11/05/07																								0.70			13.10					
11/16/07		0.00	0.00	0.05	0.00	0.00	0.00	0.05		0.10	0.05	0.00	0.00		0.15	0.00	0.00	0.00		0.10			9.90	0.05	0.05	0.05	19.70	0.00	0.10		0.00	0.00
11/21/07																							23.80				11.40					
11/30/07		0.00	0.20	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.10	0.00		0.15	0.00	0.00	0.20	1.20	0.00	0.00		0.00	0.00
12/06/07																							0.68				0.22					
12/11/07		0.05	0.00	0.05	0.00	0.00	0.05	0.05		0.10		0.05	0.05		0.00	0.05	0.00	0.00		0.00	0.10		10.80	0.00	0.05	0.00	5.40	0.00	0.00			
12/21/07																							0.00				0.00					
12/28/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.40	0.00	0.00	0.00	0.00	0.00	0.00			
01/04/08																							0.00				0.00					
01/11/08		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.15	0.14		0.00	0.00
01/22/08		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.15	0.00	0.00	0.00	0.00	0.00		0.00	0.00
02/07/08		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.11	0.00	0.00	0.03	0.00	0.00		0.00	0.00
02/22/08																											0.00					
03/12/08		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.01	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
03/21/08		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
04/03/08		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		1.90	0.00	0.00	0.00	0.00	0.75	0.00		0.00	0.00
04/16/08		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		2.40	0.00	0.00	0.00	1.60	0.00	0.00		0.00	0.00
05/01/08		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		4.20	0.00	0.00	0.00	2.70	0.00	0.00			0.00
05/08/08																							0.25									
05/15/08		0.00	0.00		0.00		0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		4.80	0.00	0.00	0.00	0.70	0.45	0.00			0.00
05/23/08																							2.80									
05/30/08		0.00	0.00		0.00			0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		4.90	0.00	0.00	0.00	1.80	0.00	0.00			0.00
06/06/08																							4.00									
06/11/08		0.00	0.00		0.00			0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.80	0.00	0.00	0.00	2.20	0.45	0.00			0.00
06/19/08																							0.20									
06/25/08		0.00	0.00		0.00			0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.45	0.00	0.00			
07/11/08		0.00	0.00		0.00			0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		2.00	0.00	0.00	0.00	0.50	0.00	0.00			0.00
07/25/08		0.00	0.00		0.00			0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.40	0.00	0.00			0.00
08/08/08		0.00		1.30	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	1.20	0.45	0.00	0.00	0.00	0.85	0.00	0.00		0.00	0.00
08/22/08		0.00		1.80	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	3.10	0.40	0.00	0.00	0.00		0.00	0.00		0.00	0.00
09/04/08		0.00		0.75	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	2.80	0.40	0.00	0.00	0.00		0.00	0.00		0.00	0.00
09/18/08		0.00		0.00	0.00	0.00	2.50	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
10/02/08		0.00		0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
10/16/08		0.00		0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
10/30/08		0.00		0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00		0.00	0.00
11/13/08		0.00		0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	2.90	2.50	0.00	0.00	0.00	0.95	0.00	0.00		0.00	0.00
11/26/08		0.00		0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
12/08/08		0.00		0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00		0.10	0.90	0.00	0.00	0.00	0.95	0.00	0.00		0.00	0.00
12/24/08		0.00		0.00	0.00	0.00	0.00									0.00	0.00				0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
01/09/09		0.00		0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
01/21/09		0.00		0.00	0.00	0.00	0.00				0.00						0.00	0.00			0.00		0.85		0.00	0.00	0.00	0.00	0.00			
02/05/09		0.00																			0.00		0.00					0.00				
02/20/09		0.00		0.00	0.00	0.00	0.00			0.60	0.00	0.00	0.00		0.00	0.00	0.50	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00		0.00	0.00
03/05/09		0.00								0.00					0.00	0.00						0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00			
03/17/09		0.00		0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00		0.00	1.50	1.00	0.00	0.00	0.00	0.00	0.90		0.00	0.00
04/02/09		0.00		0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00		0.50	1.50	0.00	0.00	0.00	0.20	0.00	0.00		0.00	0.00
04/17/09		0.00		2.10	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00		0.00	4.20	0.00	0.00	0.00	0.00	0.00	0.25		0.00	0.00
04/29/09		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
05/12/09		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	2.70	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.25		0.00	0.00
05/28/09		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
06/11/09		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
06/26/09		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
07/10/09		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.50	0.00	0.00		0.00	0.00
07/24/09		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
08/07/09		0.00		0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00
08/21/09		0.00		0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00
09/04/09		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00
09/18/09		0.00	0.00	0.00	0

Inaccessible
Destroyed
Clogged
Damaged

Samp. Pt.	Schley South	3R	5	6	7	8	9	10	Schley North	4A	5	7R	7A	Buttrick	1	2R	3R	4R	5	6	8	9	10	12R	13R	14R	16R	17R	18	Balcom	Balcom-2	Balcom-4
01/29/10		0.20	0.00	3.45	0.00	0.00	0.00	0.00		0.30	0.50	0.25	0.00		0.30	0.00	0.25	0.00		0.00	1.40	0.80	0.20	0.00	0.15	0.00	0.00	0.00	0.00		0.35	0.00
02/09/10		0.00	0.00	4.50	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.35	3.50	2.15	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
03/02/10		0.00	0.25	4.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.35	0.00
03/19/10		0.00	0.00	4.90	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
04/07/10		0.10	0.30	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.10	0.15	0.00	0.00	0.00	0.00	0.00		0.00	0.00
04/16/10		0.00	3.35	3.50	0.00	2.05	0.30	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	2.00	3.83	0.00	0.00	0.30	0.00	0.95	0.00	0.00		0.00	0.00
04/30/10		0.10	0.20	0.20	0.15	0.20	0.10	0.10		0.20	0.20	0.15	0.10		0.15	0.10	0.15	0.15		0.15	0.25	4.10	0.15	0.15	0.15	0.15	0.25	0.00	0.30		0.20	0.10
05/14/10		0.05	0.00	0.05	0.10	0.05	0.00	0.10		0.10	0.05	0.05	0.10		0.05	0.05	0.05	0.00		0.10		0.05	0.10	0.05	0.05	0.10	0.10	0.05	0.10		0.00	0.00
05/28/10		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	5.00	0.00	0.00	0.00	2.30	0.00	0.00		0.00	0.00
06/11/10		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.05	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
06/25/10		0.40	0.00	0.40	0.05	0.00	0.00	0.05		0.00	0.00	0.00	0.00		0.00	0.00	0.05	0.05		0.05	0.70	0.20	5.00	0.05	0.10	0.05	0.10	0.00	0.00		0.00	0.00
07/01/10				0.00																			5.00				0.00					
07/12/10		0.00	0.00	0.95	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
07/16/10				0.00																			0.00				5.00					
07/23/10		0.00	0.05	3.35	0.00	0.00	0.00	0.00		0.05	0.05	0.05	0.00		0.05	0.05	0.05	0.00		0.00	4.40	5.00	4.45	0.15	0.45	0.00	4.95	0.00	0.00		0.00	0.00
07/30/10				1.40																			2.85				2.50					
08/05/10		0.00	0.35	0.25	0.00	0.00	0.00	0.00		0.05	0.00	0.00	0.00		0.00	0.05	0.00	0.10		0.15	4.50	0.00	1.05	0.00	0.00	0.00	5.00	0.00	0.00		0.00	0.00
08/13/10				2.45																			1.50				0.00					
08/20/10		0.00	0.00	0.25	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.05		0.00	0.00	0.00	0.05		0.00	3.55	1.75	0.30	0.00	0.25	0.10	0.00	0.00	0.00		0.00	0.00
08/27/10				0.00																			10.00				0.00					
09/02/10		0.00	0.00	0.25	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	0.00	0.00		0.00	0.00
09/10/10				0.00																			4.50				0.00					
09/16/10		0.00	4.50	0.00	1.30	0.20	1.30	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.05		0.00	3.60	5.00	5.00	0.00	0.85	0.00	4.25	0.00	0.00		0.00	0.00
09/24/10				0.00																			0.00				0.00					
10/05/10		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.05		0.00	3.40	10.00	3.30	0.00	0.00	1.65	0.00	0.00	0.00		0.00	0.00
10/08/10																							0.65				0.00					
10/14/10		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.05		0.00	3.70	4.20	10.00	0.00	0.00	0.00	1.65	0.00	0.00		0.00	0.00
10/22/10																						0.00	0.00				0.00					
10/29/10		0.00	0.00	0.00	0.00	0.20	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	9.00	10.00	10.00	0.00	0.00	0.00	2.45	0.00	0.00		0.00	0.00
11/05/10																					0.00	0.00	5.00				0.00					
11/12/10		0.00	0.00	2.15	0.00	0.20	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	2.50	10.00	10.00	0.50	0.00	0.50	3.05	0.05	0.00		0.00	0.00
11/19/10																																
11/24/10		0.00	0.00	0.30	0.00	0.00	0.00	0.00																								
12/03/10																																
12/10/10		0.00	0.00	0.05	0.00	0.00	0.00	0.00																								
12/17/10																																
12/30/10		0.00								0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.35	0.60	0.00			
01/07/10																						2.90	5.00				0.00					
01/14/11		0.00	-	-	-	0.00	-	-		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.05	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00		-	-

POST RETROFIT MONITORING DATA

Samp. Pt.	Schley South	3R	5	6	7	8	9	10	Schley North	4A	5	7R	7A	Buttrick	1	2R	3R	4R	5	6	8	9	10	12R	13R	14R	16R	17R	18	Balcom	Balcom-2	Balcom-4
02/17/12		0.00	0.00	100.00	0.00	100.00	0.00	5.00		0.00	0.00	0.00	0.00		0.00	NM	0.00	0.00	NM	0.00	0.00	8.00	0.00	0.00	0.00	28.00	33.00	0.00	0.00		0.00	0.00
02/23/12		NM	NM	0.00	NM	0.00	NM	NM		NM	NM	NM	NM		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM		NM	NM
03/02/12		0.00	0.00	6.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	NM	0.00	0.00	NM	0.00	0.00	0.00	NM	0.00	0.00	36.00	0.00	0.00	0.00		0.00	0.00
03/08/12		NM	NM	NM	NM	NM	NM	NM		NM	NM	NM	NM		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		NM	NM
03/16/12		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	NM		0.00	NM	0.00	0.00	NM	0.00	4.00	0.00	NM	100.00	0.00	27.00	10.00	0.00	0.00		0.00	0.00
03/21/12		NM	NM	NM	NM	NM	NM	NM		NM	NM	NM	NM		NM	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	0.00	NM	NM	NM		NM	NM
03/30/12		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	NM	0.00	0.00	NM	75.00	0.00	0.00	65.00	77.00	25.00	4.00	0.00	0.00	0.00		0.00	0.00
04/06/12		NM	NM	NM	NM	NM	NM	NM		NM	NM	NM	NM		NM	NM	NM	NM	NM	NM	NM	NM	NM	23.00	NM	0.00	NM	NM	NM		NM	NM
04/13/12		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	NM	0.00	0.00	NM	0.00	34.00	0.00	89.00	100.00	100.00	0.00	100.00	0.00	0.00		0.00	0.00

Inaccessible
Destroyed
Clogged
Damaged

Samp. Pt.	Miles	1M	2M	3M	4M	5M	6M	7M	8M	9M	10M	11M	12M	13M	14M	17M	19M	20M	21M
02/18/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/05/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N.M.	0.00	N.M.	0.00	0.00	N.M.	0.00	0.00	0.00
03/19/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N.M.	N.M.	N.M.	0.00	0.00	N.M.	0.00	N.M.	0.00
04/02/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N.M.	0.00	0.00	0.00	0.00	0.00	0.00
04/16/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/30/02		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N.M.	N.M.	N.M.	N.M.	0.05	0.05	N.O.	0.00	N.M.	N.M.
05/15/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N.M.	N.M.	N.M.	N.M.	0.10	N.O.	N.O.	0.00	N.M.	N.M.
05/28/02		0.00	0.00	0.00	0.00	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.M.	N.O.	N.O.	0.00	0.00	0.00
06/11/02		0.00	0.00	0.00	0.00	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	0.00	N.O.	N.O.	N.O.	0.00	0.00
06/28/02		0.00	0.00	0.00	0.00	0.00	0.00	N.O.	0.00	N.O.	N.O.	N.O.	N.O.	0.00	N.O.	0.00	N.O.	0.00	0.00
07/09/02		0.00	0.00	0.00	0.00	0.00	0.00	N.O.	0.00	N.O.	N.O.	N.O.	N.O.	0.00	N.O.	N.O.	0.00	0.00	0.00
07/24/02		0.00	0.00	0.00	0.00	0.00	0.00	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	0.00	N.O.	N.O.	0.00	0.00	N.O.
08/07/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/20/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/04/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/17/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/02/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N. O.	0.00	0.00	0.00
11/26/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/10/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/23/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/07/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N.O.	0.00	0.00	0.00
01/21/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/04/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/19/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/04/03				0.00				0.00		0.00			0.00	0.00	0.00		0.00		0.00
03/18/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/25/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05		0.05
04/01/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/08/03										0.00									
04/15/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/30/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/14/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/27/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/10/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/24/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/08/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/23/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/04/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/19/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09/03/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09/17/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/03/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/15/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/31/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/11/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/03/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/15/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/31/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01/13/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01/27/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02/12/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02/25/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/08/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/22/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/07/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/21/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/06/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/20/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/03/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/17/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/29/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/16/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/30/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/11/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/08/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/22/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/05/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/19/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/15/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
07/29/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
08/12/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
08/26/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
09/09/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
09/26/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
10/07/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
10/21/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
11/04/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
11/18/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
12/02/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
12/14/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
12/29/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
01/10/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
01/25/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
02/08/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
02/22/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
03/08/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
03/23/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
04/07/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
04/19/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
05/03/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
05/17/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
05/31/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
06/14/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
06/28/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
07/12/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
07/27/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
08/09/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
08/25/06		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00								
09/07/06		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
09/20/06		0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00								
10/06/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
10/19/06		0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00								
11/03/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
01/12/07		0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00								
01/24/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
02/07/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
02/21/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
03/07/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
03/21/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								

Samp. Pt.	Emerson	1E	2E	3E	4E	5E	6E	7E	8E	9E	10E	11E	12E	13E	14E	15E	16E
02/18/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N.M.	0.00	0.00	0.00	0.00	0.00	0.00
03/05/02		0.05	0.00	0.00	0.00	0.00	0.00	N.M.	N.M.	N.M.	N.M.	0.00	0.00	0.00	0.00	0.00	0.10
03/19/02		0.00	0.00	0.00	0.00	0.00	0.00	N.M.	N.M.	N.M.	N.M.	N.M.	0.00	0.00	0.00	0.00	0.00
04/02/02		0.00	0.00	0.00	0.00	0.00	0.00	N.M.	N.M.	0.00	N.M.	N.M.	0.00	0.00	N.M.	0.00	0.00
04/16/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/30/02		0.05	N.O.	N.M.	0.05	N.M.	0.05	N.M.	0.05	N.M.	N.M.	N.M.	0.05	N.M.	0.00	N.O.	N.M.
05/15/02		5.00	N.O.	0.00	0.00	N.M.	0.00	N.M.	0.00	N.M.	N.M.	N.M.	N.M.	N.M.	N.M.	N.M.	0.00
05/28/02		0.75	N.O.	0.00	0.00	N.M.	N.M.	N.M.	N.M.	N.M.	N.M.	N.M.	0.00	N.O.	N.O.	N.O.	N.O.
06/11/02		N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.M.	0.00	N.O.	N.O.	N.O.	N.O.
06/28/02		N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.M.	0.00	N.O.	N.O.	N.O.	N.O.
07/09/02		N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	0.00	N.O.	0.00	N.O.	N.O.
07/24/02		N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	0.00	N.O.	0.00	N.O.	N.O.
08/07/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/20/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/04/02		0.00	N.O.	0.00	N.O.	0.00	0.00	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	0.00	0.00	0.00	0.00
09/17/02		0.00	N.O.	0.00	N.O.	0.00	1.00	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	0.00	0.00	0.00	0.00
10/02/02		0.00	N.O.	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/02		0.00	N.O.	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/02		0.00	0.00	0.00	0.00	0.00	0.00	N.O.	0.00	0.00	N.O.	N.O.	0.00	0.00	0.00	N.O.	0.00
11/26/02		0.00	0.00	0.00	0.00	0.00	0.00	N.O.	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00
12/10/02		0.00	0.00	N.O.	0.00	N.O.	N.O.	0.00	0.00	0.00	N.O.	N.O.	0.00	0.00	0.00	N.O.	0.00
12/23/02		0.00	0.00	N.O.	0.00	0.00	0.00	N.O.	0.00	0.00	N.O.	N.O.	0.00	0.00	0.00	N.O.	0.00
01/07/03		0.00	0.00	N.O.	N.O.	N.O.	0.00	N.O.	0.00	0.00	N.O.	N.O.	0.00	0.00	0.00	N.O.	0.00
01/21/03		0.15	0.00	N.O.	N.O.	N.O.	0.00	4.90	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	N.O.	0.00
02/04/03		0.00	0.00	0.00	0.00	0.00	0.00	N.O.	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00
02/19/03		0.00	0.00	N.O.	0.00	N.O.	N.O.	0.00	0.00	0.00	N.O.	N.O.	0.00	0.00	0.00	N.O.	0.00
03/04/03		0.00	0.00				0.00		0.00	0.00			0.00	0.00	0.00		0.00
03/18/03		0.00	0.00				0.00		0.00	0.00			0.00	0.00	0.00		0.00
03/25/03		0.00	0.00				0.00		0.00	0.00				0.00	0.00		0.00
04/01/03		0.00	0.00				0.00		0.00	0.00			0.00	0.00	0.00		0.00
04/08/03		0.00	0.00														0.00
04/15/03		0.00	0.00				0.00		0.00	0.00		0.00	0.00	0.00	0.00		0.00
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10/31/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/11/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/03/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/15/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/31/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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02/12/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02/25/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/08/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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11/05/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/19/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/15/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
07/29/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
08/12/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
08/26/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
09/09/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
09/26/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
10/07/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
10/21/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
11/04/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
11/18/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
12/02/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
12/14/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
12/29/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
01/10/06		0.00	0.00

POST RETROFIT MONITORING DATA

Samp. Pt.	Miles	1M	2M	3M	4M	5M	6M	7M	8M	9M	10M	11M	12M	13M	14M	17M	19M	20M	21M	Emerson	1E	2E	3E	4E	5E	6E	7E	8E	9E	10E	11E	12E	13E	14E	15E	16E
02/17/12		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	NM	NM	NM	02/17/12	0.00	0.00	81.00	0.00	NM	0.00	0.00	0.00	NM	NM	NM	NM	NM	NM	NM	NM
02/23/12		NM	NM	NM	92.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	02/23/12	NM	NM	100.00	NM	NM	NM	0.00	0.00	NM	NM	NM	NM	NM	NM	NM	NM
03/02/12		0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	NM	NM	03/02/12	0.00	0.00	17.00	12.00	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
03/08/12		NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	03/08/12	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
03/16/12		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	NM	NM	NM	03/16/12	0.00	0.00	13.00	11.00	NM	0.00	0.00	0.00	NM	NM	NM	NM	NM	NM	NM	NM
03/21/12		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	03/21/12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
03/30/12		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	NM	NM	NM	03/30/12	0.00	0.00	14.00	0.00	NM	0.00	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
04/06/12		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	04/06/12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
04/13/12		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	NM	NM	NM	04/13/12	0.00	0.00	0.00	0.00	NM	0.00	0.00	0.00	NM	NM	NM	NM	NM	NM	NM	NM
04/18/12		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	04/18/12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

D LFG O & M Forms

NYC Parks

City of New York Department of Parks and Recreation

Ferry Point Park Golf Course & Community Park
Bronx, New York

Final Construction Certification Report
NYSDEC Permit #2-6006-00014 / 00013 (SW)
October 19, 2015

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1 Introduction

1.1 Purpose

This Final Construction Certification Report for the Ferry Point Park Golf Course is submitted to the New York State Department of Environmental Conservation upon completion of the construction of Ferry Point Park East, a solid waste management facility, which includes the resultant information prepared in accordance with 6NYCRR Part 360 of the New York State Solid Waste Management Program.

This report is to certify that the construction of Ferry Point Park East has been completed in accordance with the 6NYCRR Part 360 and the Ferry Point Park Part 360 permits. Therefore, this report will present in great detail each specific approved component of the project – what was approved, what was actually constructed initially (with pictures), the changes that were made, and the final status and design as of the date of this report (with pictures).

1.2 Report Organization

This report has been generated to provide a written post-construction certification report to comply with the requirements of the Project's Part 360 Permits. The narrative and supporting information provided in this report have been organized such that any individual, especially those not familiar with the project, can gain a concise understanding of the history of improvements at the Site. As such, the report has been organized into the following sections:

- This report begins with this introductory chapter (Section 1) which briefly describes the purpose and scope of the project, provides details pertaining to the Site background including a Site description, key agencies involved, and Project and permitting history.

- Section 2 describes the Part 360 Permits and modifications, Permit reference documents, non-conformance issues, operational upsets, emergencies, and unusual circumstances, and reporting completed associated with the Project.

- Section 3 details the fill importation QA/QC program, specifically source site reviews for shaping layer and cover layer material, on-site fill importation inspection, trucking manifests, rejected trucks and materials, fill tracking, and total carcinogenic semi-volatile organic compound tracking.

- Section 4 provides details related to construction activities on-site including construction of the Community Park and the Golf Course, status of the Waterfront Park, environmental controls such as landfill gas wells, groundwater wells, liners, gas venting systems, vent trench, landfill cap, municipal solid waste handling, earthwork and fill placement, demarcation layer, miscellaneous golf course materials such as greens and tees mix, construction progress meetings, and deviations from the approved design plans and/or Permit requirements with as-built surveys.

- Section 5 details the environmental monitoring completed during the Project including Stormwater Pollution Prevention Plan (SWPPP), landfill gas, piezometer, settlement plate, and groundwater monitoring as well as information related to the deed restriction and post construction monitoring requirements at the Site.

- Section 6 provides a summary of the report.

- Report certification is provided in Section 7.

1.3 Background Information

1.3.1 Project Scope

Ferry Point Park in the Bronx (the "Site") is a former landfill covering 222 acres that is bounded by the Bronx-Whitestone Bridge and Hutchinson River Parkway to the west, Balcom, Miles, and Emerson Avenues to the east, Schley Avenue and St. Raymond's Cemetery to the north, and the East River to the south (See Figure 1-1 Ferry Point Park Project Area Map). The project was originally managed under Ferry Point Partners, LLC and was taken over solely by the City of New York Department of Parks and Recreation in October 2007.

The original project scope (the "Project") included the construction of three main elements including a golf course, a community park, and a waterfront park over the 222-acre Site (see Figure 2-1 Ferry Point Park Site Layout) as follows:

1. An 18-hole golf course with practice facility, driving range, clubhouse, maintenance facility, irrigation lake, stormwater retention ponds, and a parking lot (192.5 acres);
2. A passive recreation waterfront park with walkways and a comfort station (19.5 acres); and
3. A community park with baseball fields, basketball court, walkways, comfort station, and landscaped stormwater retention area (10 acres).

1.3.2 Project Site

The origins of the site for purposes of presenting a description of the site and surrounding area for this report extend back to the early 1900's. At that time an available 1900 map of the Bronx (Figure 2-2) showed the western edge of the site which now contains the expressway and Whitestone Bridge was a long narrow peninsula extending out to the same area that the northern landing of the Whitestone Bridge now extends to. Immediately east of this peninsula was a large open bay which is the area that the Ferry Point Golf Course is located within. Further to the northeast of this bay and well inland and beyond the current golf course was the Baxter Creek that drained into the bay. The eastern landfall of this embayment area is a larger peninsula that contains roadways and what appears to be residential development. The road patterns do not resemble the roadways that currently exist in that area and appear to have been changed.

A 1938 aerial photo (Figure 2-3) showing the construction of the Whitestone Bridge shows the Bay, mooring, residential area and land to the west to be virtually the same as shown in the 1900 map (Fig. 2-2). The significant change is in the widening of the western peninsula where the expressway was being constructed leading to the bridge ramps. The widening was not significant at this time but a rectangular area in the extreme northwest corner of what is now the site does appear to be filled and graded possible for bridge and expressway construction staging or support. Areas of filling can be readily identified by the contrasting lighter color typically indicative of sandy dredge sand placement. Other areas along the shoreline can be seen as containing a lighter colored band of fill material and this includes much of the new Ferry Point Park located west of the Whitestone Bridge. Much of the park area was filled, graded and completed by 1938. Bulkheads were constructed with linear components to present a smooth shoreline but one that does not appear to contain a beach where water diminishes in depth to 0. Photos of the eastern area of the bay where mooring and docks can be seen showing large vessels moored against the shore. This would indicate the water has significant depth all of the way to the center of the bay.

Aerial photographs from the 1950's (Figure 2-4) show a drastic change in the area currently referred to as the site. Large expansion of the filling that was evident in 1938-39 up in the northeast corner can be clearly seen. The filling extends well into the bay and it appears that a connective bridge was constructed from the eastern shore to the fill area. It is difficult to discern if this is a usable structure for crossing or if it had some other purpose. The filling operation appears from the photo to consist of the same light colored material that was placed in the Ferry point Park and from photos showing a large number of barges in the water filled with material of the same light color. There is no specific logs and documentation that presents the specific origin and consistency of the material but from the prior aerials showing filling and this large expansion, it appears to be of a similar origin which would be dredge sand. In the 1951 aerial, no specific municipal solid waste dumping and disposal can be seen but the records indicate the landfill operated from this approximate time period. So it can be assumed that municipal solid waste was dumped within the site area very soon after that. The filling shown in the aerial may very well have been the initial construction of the upper portion of the landfill with the tidal gate or bridge closing in the upper bay area. Additional aerials of the landfilling were not identified and more recent aerials document the completion of filling as well as the more recent golf course construction.
What can be discerned from this compilation of photos is that the landfill was located on area that may have been completely filled open water as well as some area that was previously reclaimed land with dredge material.

The Site operated as a landfill from before 1951 to the 1960's. The landfill reportedly accepted municipal solid waste during its operating period and was closed and covered in the mid-1960's, with additional closure operations conducted more recently in the 1980's. Prior Site use was determined from historic aerial photographs from 1951 thru 1991. The aerial photographs span practically the entire operational period of the prior landfill, from its initial operations to the present, and provides substantial information about the Site's development.

1.3.3 Key Agencies

The following were the key agencies associated with the project providing oversight, administration, design, construction, and monitoring services. The following is not intended to be an exhaustive list of involved entities related to the Project. A more extensive list of project participants is included in Appendix 18.

Primary Regulatory Agency:
New York State Department of Environmental Conservation Region 2 ("NYSDEC")

Project Permittee (Prior to October 2007):
Ferry Point Partners, LLC ("FPP")
City of New York Department of Parks and Recreation ("NYCDPR")

Project Permittee (Post October 2007):
City of New York Department of Parks and Recreation ("NYCDPR")

Primary Design, Engineering, Construction, and Monitoring Consultants:
Sanford Golf Design ("Sanford")
Nicklaus Design ("Nicklaus")
TRC Companies, Inc. ("TRC")
Langan Engineering & Environmental Services, Inc. ("Langan")
Ecology and Environment, Inc. ("E&E")
KS Engineers PC ("KSE")
Wesler Cohen Associates ("WCA")
The Pignato Group ("TPG")
Thomas Balsley Associates ("TBA")
Green Bases, Inc. ("GBI")

Independent Environmental Monitor ("IEM"):
ARCADIS/Geraghty & Miller (July 2000 – December 2000)
Gannett Fleming (December 2000 – October 24, 2010)
Woodard & Curran ("WC") (October 25, 2010 – Project Completion)

General Contractor:
Golf Course and Community Park: LAWS Construction Corp. ("LAWS")
Community Park Comfort Station: TJM Construction Corp. / Long Island Concrete, Inc.
Golf Course Maintenance Building, Rain Shelter, Comfort Station: Triton Structural Concrete, Inc.
Golf Course Cover Layer Material Importation: MFM Contracting Corp.

Golf Course Concessionaire/Operator:
The Trump Organization ("Trump")

1.3.4 Independent Environmental Monitor

The requirement for an Independent Environmental Monitor ("IEM") on this project was associated with an increased level of monitoring exceeding normal review and oversight practices of the NYSDEC in order to protect public health and the environment. The increased level of review and oversight for this Project was mainly associated with the extensive effort required for evaluation of fill material sources, source site testing and inspection, importation of the fill material, extensive earthwork, and environmental monitoring required at the 222-acre Site.

In accordance with Special Condition 24 of the 2014 Permit, NYCDPR was responsible to retain an IEM, accountable to the NYSDEC, to provide environmental oversight of all activities authorized under the Permit including but not limited to the quantification, importation and placement of fill, and the monitoring of the Site. Particular activities performed by the IEM for this Project included the following:

- Report deviations from or non-compliance with permitted activities to the NYSDEC;
- Evaluate and inspect fill sources;
- Witness source site investigation, sampling, and compare lab test results to Permit requirements;
- Visual and Photo-Ionization Detector (PID) inspection of imported fill materials to the Site;
- Monitor offloading of all trucks and reject unacceptable materials from being dumped on the Site and used for construction;
- Monitor environmental sampling on the Site (i.e. landfill gas, piezometer, groundwater, settlement, etc.);
- Monitor all aspects of fill operations on the Site, particularly the installation of minimum thickness of shaping layer and cover layer materials as well as demarcation layer installation; and
- Complete and submit to the NYSDEC Daily Observation Reports, bi-weekly Fill Management Reports, and Quarterly Reports related to Project activities.

The selection, continued retention, discharge, or replacement of the IEM was subject to the approval of the NYSDEC, at its sole discretion.

1.3.5 Project and Part 360 Permitting History

The following represents an overview of project and permitting history outlining key events associated with the Project. For more detailed and additional supporting information, reference the updated Permit Modification application package titled "Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East", dated May 31, 2012 and subsequently revised on August 31, 2012, June 20, 2013, and October 15, 2013 ("2013 Engineering Report") included in Appendix 20.

In May 1997, a Request for Proposals was released for the development of the Site. In May of 1998 Ferry Point Partners, LLC ("FPP") was selected as the developer and in the late May 2000, the City of New York Department of Parks and Recreation ("NYCDPR") initially entered into a license agreement with FPP to develop, construct, and operate the new recreation facility. The facility included a Jack Nicklaus signature golf course, a community park, a waterfront park, and related facilities (the "Project"). At that time, all required reviews for the Project were completed under the City Environmental Quality Review (CEQR),

State Environmental Quality Review Act (SEQRA), and New York City's Uniform Land Use Review Procedure (ULURP).

On July 17, 2000, the NYSDEC issued a Part 360 Solid Waste Management Permit (DEC No. 2-6006-00014-00011) (the "2000 Permit") jointly to NYCDPR and FPP (the "Permittee"), for a non-specific "facility" under Part 360-1.9(b) at the Site (see Appendix 1 for a copy of the permit). This permit allowed the Permittee to import and place fill necessary to construct the Project. This permit allowed for 1,000,000 cubic yards of fill material (in-place volume) to be imported and placed on the Site. The Permittee prepared an Engineering Report, dated April 11, 2000 and a Report on Fill Management Operations & Maintenance, dated May 16, 2000 as part of the permit application.

After the receipt of the original Part 360 Permit in July 2000, FPP entered into a contract with LAWS Construction Company, Inc. (the "Contractor") to construct the golf course, parks and other features of the Project, and to identify, secure and import the off-site fill material to be used to meet the design elevations of the grading plans referenced in the 2000 Permit.

Initially ARCADIS/Geraghty & Miller, Inc. was retained as the IEM. ARCADIS/Geraghty & Miller, Inc. was retained as the IEM for a period from July 2000 to December 2000 and was replaced as the IEM by Gannett Fleming Engineers and Architects, P.C. in December 2000.

FPP began importing fill to the Site in August 2000 and continued, with some interruptions, until January 2002 when fill deliveries were halted pending the modification of the 2000 Permit.

On January 10, 2001, the NYSDEC issued a letter addressing quality control protocol for potential sources of material from sites that previously experienced backfilling with soil, but not with waste materials, for the use in the shaping layer.

On May 21, 2001, the NYSDEC issued a Fill Procurement Protocol letter addressing acceptance of uncontaminated, unprocessed construction and demolition debris ("C&D") from registered C&D processing facilities.

On May 24, 2001, the NYSDEC issued a Fill Procurement Protocol letter addressing paragraph b in the May 21, 2001 letter and clarifying the definition of processed material.

From May to December 2001, based on the results of the Site perimeter methane gas monitoring, the NYSDEC required the construction of a landfill gas passive vent trench along most stretches of the Site perimeter from the water's edge near the foot of Emerson Avenue, along the entire length of the Site boundary with Balcom Avenue, and along Schley Avenue and continuing approximately 1,050 feet to the west past the intersection of Schley Avenue and Buttrick Avenue. In total, approximately 5,350 feet of passive vent trench was constructed (see Section B.3.a of Volume #1, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx,

NY, Engineering Report, dated June 30, 2005 (revised) for additional information). Additional discussion related to the vent trench construction is included in Sections 4.2.4 and 4.6 of this report.

In February 2002, the Permittee requested a modification to the 2000 Permit to increase the volume of in-place fill to approximately 1,550,000 cubic yards and changes in design features. The Permittee prepared a Supplement to the Engineering Report, dated February 11, 2002 and a Response to Request for the Additional Information, dated July 2, 2002 as part of the permit modification.

On October 18, 2002, the NYSDEC issued a Part 360 Solid Waste Management Permit (DEC No. 2-6006-0014-00013) (the "2002 Permit") to allow the Permittee to place 1,522,300 cubic yards of in-place fill on the Site (see Appendix 1 for a copy of the permit modification). Prior to October 18, 2002, 446,500 cubic yards of shaping material had been imported to the Site.

After the NYSDEC issued the 2002 Permit in October 2002, FPP resumed importing fill to the Site. The importation of fill to the Site was performed in accordance with the 2000 Permit, the 2002 Permit, the 2000 Fill Report and the Fill Procurement Protocol per the NYSDEC letters dated January 10, 2002, May 21, 2001 and May 24, 2001.

On December 10, 2002, NYCDPR submitted the Response Action Plan ("RAP") as required by Special Condition 31 of the 2002 Permit. A copy of the RAP is included in Appendix 19.

On March 10, 2003, NYCDPR submitted a proposal to the NYSDEC to repair and replace methane monitoring system components. A copy of the proposal is included in Appendix 19.

In response to NYCDPR's March 10, 2003 request to repair and replace methane monitoring system components, the NYSDEC approved replacement of 34, 25-foot spaced, semi-permanent monitoring wells with eighteen, 50-foot spaced, monitoring wells along Miles and Emerson Avenues, in accordance with Special Condition #37 of the 2002 Permit, on March 17, 2003. Installation of the replacement monitoring wells was completed in May 2003.

On November 18, 2003, the NYSDEC approved the Work Plan for the Final Consent Order, Case No. R2-20030724-187, dated November 18, 2003. This provided for the placement on Site of the solid waste material excavated during the construction of the gas venting trench, the size reduction of concrete on Site, and the processing and composting of existing wood on Site. The solid waste material was moved and placed in January 2004 and the processing and composting of the wood was completed in the spring of 2004. A copy of the approval is included in Appendix 19.

On January 12, 2004, the NYSDEC transmitted a copy of the executed Order on Consent No. R2-20030724-187 to NYCDPR. A copy of the fully executed consent order is included in Appendix 19.

On November 1, 2004, the NYSDEC approved the revised truck compaction factor of 42.4% based on the October 10, 2003 30% aerial topographic survey as was required per the 2002 Permit.

On December 7, 2004, the NYSDEC approved the revised truck compaction factor of 41% based on the July 17, 2004 60% aerial topographic survey as was required per the 2002 Permit.

In May 2005, the Permittee requested a modification to the permit to increase the volume of in-place fill to approximately 2,370,000 cubic yards among other items in order to reshape the Golf Course related to a revised design by the golf course architect. The Permittee prepared Volume #1, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY, Engineering Report, prepared by TRC Raymond Keyes Associated dated June 30, 2005 (revised) and Volume #2, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY, Engineering Report, prepared by TRC Raymond Keyes Associated dated June 30, 2005 (collectively known as the "2005 Engineering Report"). A copy of the 2005 Engineering Report is included in Appendix 20.

On August 2, 2005, NYCDPR responded to NYSDEC comments on the previously submitted June 30, 2005 Permit Modification and Engineering Report. A copy of the comment response is included in Appendix 19.

On November 18, 2005, the NYSDEC issued the modified Part 360 Solid Waste Management Permit (No. 2-6006-00014/00013) to place a total of 2,543,729 cubic yards of in-place fill on the Site (see Appendix 1 for a copy of the permit modification). This action was followed by a December 27, 2005, revision (No. 2-6006-00014/00013) that amended the total in-place fill volume to 2,370,000 cubic yards (the "2005 Permit").

On April 4, 2006, NYCDPR submitted a request for a determination related to cover layer material chemical criteria to the NYSDOH. On August 2, 2006, the NYSDOH provided written determination related to fill material chemical criteria required under Permit Special Condition 15(d) of the 2005 Permit. The submission and response are included in Appendix 19.

On October 25, 2006, the NYSDEC authorized the importation of shaping layer material from otherwise allowable sites with a total carcinogenic SVOC level in exceedance of the site limit, but 10 ppm or lower provided that a weighted average equal to or less than 3 ppm would be achieved by the end of each quarter of each year. A copy of the correspondence is included in Appendix C.1 of the 2013 Engineering Report (Appendix 20).

On October 26, 2007, the NYCDPR terminated the license agreement with Ferry Point Partners, LLC and took over site development activities. Ferry Point Partners, LLC was no longer involved with the Project or a Permittee.

On February 29, 2008, FPP submitted an application to the NYSDEC to transfer the Part 360 Permit solely to NYCDPR.

On July 25, 2008, a permit renewal application package to the 2005 Permit was submitted by NYCDPR. This submittal requested a modification of the 2005 Permit to allow the use of dredge and processed dredge material (PDM) as fill and the barge delivery of such fill material to the Site.

On August 12, 2008, the NYSDEC notified NYCDPR and FPP that the Part 360 Permit had been transferred to NYCDPR.

On October 24, 2008, the NYSDEC issued a Notice of Incomplete Application and comments to the July 25, 2008 submittal.

On December 2, 2008, the NYSDEC issued a letter to advise NYCDPR that the 2005 Part 360 Permit (with the corresponding November 30, 2008, expiration date) remained in full force and effect until NYSDEC approved the permit renewal application, as per Section 401(2) of the State Administrative Procedure Act (SAPA). See Appendix A of the 2013 Engineering Report (Appendix 20) for a copy of the SAPA letter.

On December 26, 2008, a response to NYSDEC's comments of October 24, 2008 was submitted by NYCDPR with a supplemental permit application package to the 2005 Permit.

On April 8, 2009, the NYSDEC issued comments to the December 26, 2008, permit application submittal. A copy of the comment letter is included in Appendix 19.

On April 9, 2009, the NYCDPR withdrew its request for a permit modification to allow the use of Processed Dredged Material ("PDM") as fill.

On April 30, 2009, the NYSDEC directed NYCDPR to not accept or place on the Site any cover layer materials with arsenic concentrations greater than 16 ppm or lead concentrations greater than 400 ppm. A copy of the correspondence is included in Appendix C.2 of the 2013 Engineering Report (Appendix 20).

On July 9, 2009, NYCDPR submitted proposed cover layer material chemical criteria to NYSDEC for review and approval. A copy of the correspondence is included in Appendix C.3 of the 2013 Engineering Report (Appendix 20).

On July 28, 2009, the NYSDEC notified NYCDPR that cover material is divided between two classifications: Active (suitable for use in Active or Passive Recreation areas), and Passive (suitable for use in Passive Recreation areas only). NYSDEC provided a table to NYCDPR listing modified heavy metal chemical limits for the cover layer at the Site. A copy of the correspondence is included in Appendix C.2 of the 2013 Engineering Report (Appendix 20).

On September 18, 2009, NYCDPR submitted rationale for a revised shaping layer correction factor based on the latest survey and fill imports volumes at that time. A December 11, 2012 letter evaluating the September 18, 2009 submittal was also submitted to the NYSDEC. The submissions are included in Appendix 19.

On September 25, 2009, the NYSDEC revised and clarified the chromium chemical limits for the cover layer previously presented in the July 28, 2009 correspondence. A copy of the correspondence is included in Appendix C.2 of the 2013 Engineering Report (Appendix 20).

On November 25, 2009, a response to NYSDEC's comments of April 8, 2009, was submitted by NYCDPR with a second supplemental permit application package to the 2005 Permit. This submittal withdrew the request to allow the use of dredge material and PDM as fill and the barge delivery of such fill material to the Site. This submittal also proposed a design modification for a Site-wide active landfill gas control system. The 2005 Permit included passive venting systems for the Site, with active systems proposed only in enclosed structures. The November 25, 2009 permit renewal application is included in Appendix 20.

On June 25, 2010, the NYSDEC issued a Notice of Incomplete Application and comments on the November 25, 2009, permit application submittal. A copy of the correspondence is included in Appendix J of the 2013 Engineering Report (Appendix 20).

On August 6, 2010, the NYSDEC issued additional comments on the November 25, 2009, permit application submittal. A copy of the correspondence is included in Appendix J of the 2013 Engineering Report (Appendix 20).

On September 29, 2010, a response to NYSDEC's comments of June 25 and August 6, 2010, was submitted by NYCDPR with a third supplemental permit application package for the 2005 Permit. This submittal withdrew the proposed design modification of a Site-wide active landfill gas control system and proposed a system consistent with the 2005 Permit. A copy of the correspondence is included in Appendix J of the 2013 Engineering Report (Appendix 20).

On October 7, 2010, a supplemental response to NYSDEC's comments of June 25 and August 6, 2010, was submitted by NYCDPR to accompany the September 29, 2010, permit renewal application submittal. A copy of the correspondence is included in Appendix J of the 2013 Engineering Report (Appendix 20).

On October 25, 2010, Woodard & Curran replaced Gannett Fleming, assuming the duties of the IEM for the Project.

On December 17, 2010, NYCDPR submitted supplemental information to the NYSDEC related to the Landfill Gas Report originally submitted to the NYSDEC on November 16, 2010 to address requests from the NYSDEC from a December 2, 2010 meeting. The November 2010 Landfill Gas Report and the December 17, 2010 supplemental information are included in Appendix E of the 2013 Engineering Report (Appendix 20).

On January 3, 2011, the NYSDEC issued a letter directing NYCDPR to collect and provide additional landfill gas data to better elucidate the subsurface conditions at a frequency described in the 2005 Permit. The letter requested that NYCDPR expand the landfill gas monitoring to include concentrations of hydrogen

sulfide, volatile organic compounds, and carbon monoxide, well temperature, and well pressure. A copy of the correspondence is included in Appendix J of the 2013 Engineering Report (Appendix 20).

On January 10, 2011, NYCDPR signed an Administrative Order on Consent (Consent Order), Case No. R2-20100521-172, related to fill material imported to the Site that violated the Permit. During 2010, fill material was brought on-site and placed in seven different stockpiles. The material was believed to be in conformance with Permit conditions. However, the material was found to be in violation of 2005 Permit Special Conditions 1, 9, and 16, during NYSDEC and IEM inspections. Under the terms of the consent order, the material was allowed to remain on-site under controlled conditions. The material was used to construct the base of the clubhouse and maintenance facility parking lots. Additional details are included in the Order on Consent, which is included in as Appendix I of the 2013 Engineering Report (Appendix 20).

On January 12, 2011, NYSDEC issued a response to NYCDPR's Request for Explanation of NYSDEC Request for Expansion of Ferry Point Park Landfill Gas Monitoring Parameters. Additional parameters included collecting data for hydrogen sulfide, volatile organic compounds and carbon monoxide, well temperature and well pressure. A copy of the correspondence is included in Appendix J of the 2013 Engineering Report (Appendix 20).

On February 16, 2011, NYCDPR submitted test pit analytical data to NYSDEC for review related to demarcation layer installation requirements. A copy of the correspondence is included in Appendix C.3 of the 2013 Engineering Report (Appendix 20).

On March 9, 2011, the NYSDEC issued a response to NYCDPR's February 16, 2011 correspondence requiring demarcation layer to be installed on the Site only in areas where there was less than five feet of shaping and cover layer materials. A copy of the correspondence is included in Appendix C.3 of the 2013 Engineering Report (Appendix 20).

On May 13, 2011, NYCDPR issued a memorandum to the NYSDEC presenting the results of a site-wide water balance based on a cover layer material permeability of 14 inches per hour, which indicated that there would be a reduction in the infiltration rate over the entire Site. A copy of the correspondence, which includes additional details on the topic, is included in Appendix D.1 of the 2013 Engineering Report (Appendix 20).

On May 26, 2011, NYCDPR requested confirmation from the NYSDEC that the use of USEPA Analytical Method 625/8270 was an acceptable alternative method for the analysis of dioxin and furan constituents. The NYSDEC provided verbal confirmation that this was an acceptable method to be used. A copy of the correspondence is included in Appendix C.5 of the 2013 Engineering Report (Appendix 20).

NYCDPR issued a June 2011 report to the NYSDEC regarding sampling and analysis of landfill gas vents at the Community Park. A copy of the report, which includes further details of this sampling and analysis, is included in Appendix E.3 of the 2013 Engineering Report (Appendix 20). On July 1, 2011, the NYSDEC concluded that there were no ambient air impacts due to the landfill gas emissions from the twelve vents

located in the Community Park and that no further monitoring was necessary beyond routine maintenance.

On August 10, 2011, NYCDPR issued a subsequent water balance memorandum indicating that a higher cover layer material permeability of 30 inches per hour would also result in a lower volume of water infiltrating through the surface of the Site after completion of construction. Section 4.2.1 includes the description relating to the site permeability modifications. Additional details related to the water balance are included in Appendix D.2 of the 2013 Engineering Report (Appendix 20).

On September 19, 2011, NYCDPR prepared technical memorandum Field Sampling Procedures for Ferry Point Site related to groundwater characterization. The memorandum is included in Appendix G of the 2013 Engineering Report (Appendix 20).

On October 18, 2011, NYCDPR submitted a technical drainage review memorandum to the NYSDEC for review regarding the final cover material and site wide water balance. A copy of the correspondence is included in Appendix D.5 of the 2013 Engineering Report (Appendix 20).

On October 21, 2011, the NYSDEC provided a response to NYCDPR's October 18, 2001 technical drainage review memorandum including a conditional approval allowing cover layer material to have a percolation rate of up to 30 inches per hour. The condition was that NYCDPR was required to submit for approval an amendment to the Stormwater Pollution Prevention Plan (SWPPP) including plans and computations that reflect the partial lining of stormwater basins. A copy of the correspondence is included in Appendix D.5 of the 2013 Engineering Report (Appendix 20).

On November 16, 2011, NYCDPR provided NYSDEC with a technical memorandum addressing the conditions included in the October 21, 2011 conditional approval for the cover layer material percolation rate. A copy of the correspondence is included in Appendix D.6 of the 2013 Engineering Report (Appendix 20).

On December 2, 2011, the NYSDEC provided an approval for NYCDPR's SWPPP amendment via email. A copy of the correspondence is included in Appendix D.6 of the 2013 Engineering Report (Appendix 20).

On January 26, 2012, the NYSDEC clarified that the average percolation rate from all samples collected within one cover layer material stockpile could be used as the representative percolation rate of that stockpile due to the mixing that occurred during loading, unloading, transport, stockpiling, and spreading of the material. A copy of the correspondence is included in Appendix 19.

On March 28, 2012, NYCDPR submitted to the NYSDEC initial groundwater monitoring data from the installation of 11 new monitoring wells installed and sampled in February 2012. NYCDPR requested additional direction from the NYSDEC concerning procedures for future sampling events.

On May 1, 2012, the NYSDEC acknowledged that settlement plate monitoring at several points has been discontinued due to interference with ongoing construction, and informed NYCDPR that the short-term monitoring locations did not need to be replaced as long as construction at the Site progressed and the long-term plates were installed as construction was completed. A copy of the correspondence is included in Appendix H of the 2013 Engineering Report (Appendix 20).

On May 8, 2012, a conference call was held between NYCDPR and the NYSDEC to discuss the initial groundwater monitoring data submitted on March 28, 2012 and to discuss guidance for future groundwater monitoring. The NYSDEC provided NYCDPR with requirements for future groundwater monitoring in their May 8, 2012 Ferry Point Park Groundwater Characterization/Monitoring Objective. Meeting minutes are included in Appendix G of the 2013 Engineering Report (Appendix 20).

On May 24, 2012, the NYSDEC verified via email that there were no outstanding enforcement actions for the Site. A copy of the correspondence is included in Appendix B of the 2013 Engineering Report (Appendix 20).

In May 2012, the Permittee requested a modification to the Permit presenting studies, modeling, investigations, and design work that were performed to resolve outstanding comments that were received by the Permittee after the April 8, 2009 Notice of Incomplete Application and the November 25, 2009 permit application to the NYSDEC. NYCDPR submitted the initial version of the Supplemental Engineering Report dated May 31, 2012.

On June 8, 2012, the NYSDEC confirmed that the sand material used for the tees, greens, and sand traps (bunkers) should not be counted towards the Permit stated allowable cover soil maximum of 250,000 cubic yards. Based on information provided to the IEM by NYCDPR, NYCDPR's consultants have estimated the required sand material volumes as follows: Tees and Greens (24,705 cubic yards), Driving Range Tee (3,025 cubic yards), and bunkers (6,076 cubic yards). Since these values were estimated and calculated by NYCDPR's consultants, it shall be noted that actual installed volumes may fluctuate from the volumes identified above. Information is from an email from Joe Voss to Faisal Choudhury on June 13, 2012. A copy of the correspondence is included in Appendix 19.

On January 23, 2013, NYCDPR submitted the rationale for increasing the amount of cover layer material that could be imported to the Site under the Permit. A copy of the correspondence is included in Appendix 19.

On February 1, 2013, The NYSDEC issued an amendment to the 2005 Permit (last modified October 17, 2012) authorizing the Permittee to import a total of 2,514,000 cubic yards of in-place fill totaling approximately 2,120,000 cubic yards of shaping layer material and approximately 394,000 cubic yards of cover layer material. A copy of the amendment is included in Appendix 1.

On April 26, 2013, the NYSDEC notified NYCDPR that the compaction factor for cover layer material was revised to 18%, approving NYCDPR's revised April 8, 2013 submittal. A copy of the approval letter and submittal are included in Appendix 19.

On October 15, 2013, NYCDPR submitted the final version of the "2013 Engineering Report", entitled Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East Bronx, NY dated May 31, 2012 (Revised August 31, 2012, October 15, 2013) to address concerns raised by the NYSDEC since the Notice of Incomplete Application of November 25, 2009 to modify the 2005 Permit. The 2013 Engineering Report is attached in Appendix 20.

On April, 17, 2014, the NYSDEC confirmed via email that a minor exceedance of the cover layer in-place volume as included in the Permit is acceptable considering no additional shaping material will need to be imported and that the exceedance could be addressed via as-built drawings and in the final construction certification report. A copy of the email is included in Appendix 19.

On May 21, 2014, the NYSDEC issued the modified Part 360 Solid Waste Management Permit (No. 2-6006-00014/00013 (SW)) and Tidal Wetlands Permit (No. 2-6006-00014/00016 (TW)) (the "2014 Permit"). See Appendix 1 for a copy of the permit.

On October 29, 2014, the NYSDEC issued an amendment to Special Condition 24 of the 2014 Permit stating that during fill delivery and earthwork, NYCDPR should submit quarterly reports to the NYSDEC summarizing all Site activities set forth in the Permit. Each report should provide details of all rejected fill material, quantify the amount of material imported to the Site using truck volumes, and the results of all on-site monitoring for that period. All fill tracking, earthwork activities, landfill gas monitoring, and associated reporting requirements typically contained within each Fill Management Report would be addressed by Quarterly Reports moving forward and Fill Management Reports would no longer be issued. FMRs were no longer being issued due to a significant reduction in fill importation and earthwork activities at the Site. A copy of the letter is included in Appendix 1.

For a detailed history of site operations and activities prior to June 30, 2005, see Volume #1, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY, Engineering Report, prepared by TRC Raymond Keyes Associated dated June 30, 2005 (revised) which is attached in Appendix 20.

1.3.6 Construction Drawings

The project included a substantial number of different construction drawings associated with the Project. Construction drawings are included in Appendix 4.

2 Part 360 Permit

2.1 Part 360 Permits and Modifications

The following is a list of the permits and modifications issued for this Project:

On July 17, 2000, the NYSDEC issued a Part 360 Solid Waste Management Permit (DEC No. 2-6006-00014-00011) (the "2000 Permit").

On October 18, 2002, the NYSDEC issued a Part 360 Solid Waste Management Permit (DEC No. 2-6006-0014-00013) (the "2002 Permit").

On November 18, 2005, the NYSDEC issued a modified Part 360 Solid Waste Management Permit (No. 2-6006-00014/00013), followed by a December 27, 2005 revision (the "2005 Permit").

On May 21, 2014, the NYSDEC issued a modified Part 360 Solid Waste Management Permit (No. 2-6006-00014/00013 (SW)) and a Tidal Wetlands Permit (No. 2-6006-00014/00016 (TW)) (the "2014 Permit").

Note that a separate SPDES General Permit for Stormwater Discharges from Construction Activity (GP-08-001) was obtained for the Project and the Acknowledgement of Notice of Intent is dated May 12, 2009 (Permit Identification No. NYR10R112).

Copies of the aforementioned permits and modifications are included in Appendix 1.

2.2 Reference Documents

Refer to Appendix 2 for a list of Permit reference documents. These documents support the original Permit and/or provide basis for subsequent permits renewals and modifications.

2.3 Non-Conformance Issues

In accordance with Special Condition 24, the IEM reported on Permit related non-conformance issues during the duration of construction at the Site. A complete list of all non-conformance issues observed and corrective actions taken during the Project is included in Appendix 3.

2.4 Operational Upsets, Emergencies, and Unusual Circumstances

2.4.1 Security breaches, Unauthorized Entries, Injuries, Fires, Theft, Vandalism, etc.

The following information was gathered from TRC, NYCDPR's design and construction consultant:

In July/August of 2013, a CBS film crew received authorization from the Agency to scout and film areas within the Ferry Point Golf Course proper. There were no known issues with those activities.

TRC did not have specific detailed reports for thefts or vandalism that occurred on the Site. To the best of their knowledge, there were two incidents of vandalism to contractor equipment (broken glass

windows and spray painted vehicles), and a few incidents when the perimeter fence was damaged (bent/scratched vertical bars). Landfill gas vent caps were damaged, but there was no evidence of vandalism; the vent caps may have been damaged by lawn mowers or other equipment running over them.

There were no known major fires or injuries during the construction time period.

The only unusual event was the discovery of the body of a construction worker who had fallen from the Throggs Neck Bridge and washed up at the Waterfront Park. For several days there was police presence and other related activity. However, that event was not related to the work at the golf course nor did it delay or adversely affect the progress of the project.

As reported by the IEM:

On the evening of August 18, 2011, the Site was broken into by unknown persons. LAWS equipment storage containers were forced open and various tools and copper piping was stolen. The trespassers appeared to have entered the Site at the back entrance to the golf course along Balcom Avenue. The fence was observed cut open in that area.

Upon arrival at the Site on August 26, 2011, IEM staff observed that the IEM trailer had been broken into by unidentified persons. On-site security and LAWS representatives were notified as well as the local police (by LAWS). Two digital cameras were stolen from the IEM trailer.

On June 25, 2012, the IEM witnessed a trailer of imported fill material slide off its frame during dumping activities. No injuries were reported.

On October 31 and November 1, 2012, IEM staff performed on-site inspections to assess damage caused by Hurricane Sandy. IEM staff observed many areas around the Site where restoration work needs to be performed on the vent trench, silt fence repair, site security fence repair, and garbage/debris removal. The southern site boundary was observed to have significant damage and washout. The entire south end of the Site was open without protection and it was filled with debris from the storm.

On October 25, 2012, the IEM witnessed both a truck and a trailer roll over onto their side during dumping activities. No injuries were reported.

Various Permit non-conformance issues were observed related to unsatisfactory security at the Site beginning with non-conformance issue 12 on October 1, 2003 where security fence and other controls were not properly maintained on-site allowing for unauthorized entry to the Site. Site security, control, and unauthorized access were the subject of non-conformance issues 15, 72, 90, 93, 97, 98, 122, and 127. Ultimately, all of these non-conformance issues were resolved and closed out during construction on an ongoing/as-needed basis.

There was a presence of coyotes at the Site as tracked and studied as part of the Gotham Coyote Project. The work was conducted under NYCDPR permits and information was released to NYCDPR for informational purposes. Coyotes were initially monitored by game camera in Ferry Point Park beginning in January 2012 through 2013. Coyote monitoring did not occur at the Site in 2014.

2.5 Reporting

The IEM was responsible for reporting to the NYSDEC related to Permit activities and compliance for the Project in accordance with Special Condition 24 of the 2014 Permit. The IEM prepared and submitted to the NYSDEC Daily Observation Reports ("DOR"), bi-weekly Fill Management Reports ("FMR"), and Quarterly Reports ("QR"). These reports are attached as appendices to this report and available at the NYCDPR Bronx Borough Headquarters (Ranaqua) document repository and are part of the public record. The address of the repository is 1 Bronx River Parkway, Bronx, NY 10462, telephone: (718) 430-1800.

2.5.1 Daily Observation Reports (DOR)

The IEM reported to the NYSDEC on a daily basis on the following information: weather conditions, municipal solid waste material removal from the site, fill materials imported to the site, detailed notes of construction activities, and non-conformance issues related to the Permit conditions.

DORs are attached in Appendix 5 beginning on October 25, 2010. Daily site activity observations for the time period prior to October 25, 2010 are summarized in the IEM's Fill Management Reports.

2.5.2 Fill Management Reports (FMR)

The IEM prepared Fill Management Reports (FMRs) that were submitted to the NYSDEC on a bi-weekly basis. Generally, the FMRs contained the following information and data: a project summary including an overview of site activities, Permit non-conformance issues, fill source site review activities and associated data, site testing activities, filling and shaping activities, and environmental monitoring. FMRs contained figures identifying imported material dump locations and any active filling, grading, and shaping areas associated with the landfill cap.

FMRs were discontinued on October 31, 2014 with FMR 346. FMRs were discontinued because the importation of shaping layer and cover layer materials and earthwork activities were significantly reduced in scope and scale on the Site. In a Permit amendment issued to NYCDPR on October 29, 2014, the NYSDEC stated that all fill tracking, earthwork activities, landfill gas monitoring, and associated reporting requirements would be addressed by Quarterly Reports thereafter.

FMRs 1 through 346 are attached in Appendix 6.

2.5.3 Quarterly Reports

The IEM prepared Quarterly Reports (QRs) that were submitted to the NYSDEC on a quarterly basis. Generally, the QRs contained summarized and aggregated information included in FMRs over each quarterly reporting period.

QRs beginning with the 4th Quarter of 2002 through the 1st Quarter of 2015 (with the exception of the 1st Quarter of 2011) are attached in Appendix 7. Observations for site activities for the 1st Quarter of 2011 are included in FMRs 247 through 253.

2.6 Authorized Fill Volumes

On July 17, 2000, the NYSDEC issued 2000 Permit jointly to NYCDPR and FPP to allow for a total of 1,000,000 cubic yards of fill to be imported and placed on the Site including approximately 750,000 cubic yards of in-place shaping layer material and 250,000 cubic yards of in-place cover layer material.

On October 18, 2002, the NYSDEC issued the 2002 Permit to allow a total of 1,522,300 cubic yards of fill (in-place) to be imported and placed on the Site. The fill material was to consist of approximately 1,272,300 cubic yards of select exempt construction and demolition debris for the shaping layer, and approximately 250,000 cubic yards of uncontaminated soil for the cover layer. The 2002 Permit also stated that, "approximately 415,000 cubic yards of fill was deposited on the Site prior to the effective date of the Permit and the projection for in-place fill material to complete the project was 1,107,300 cubic yards, consisting of approximately 857,300 cubic yards (in-place volume) of select exempt construction debris for the shaping layer and approximately 250,000 cubic yards (in-place volume) of uncontaminated soil for the cover layer.

In 2003, the golf course architect determined that the tournament quality and signature status of the course could be significantly improved by making the facility a "links" style golf course. The changes to the Project as compared to the work authorized under the 2002 Permit included:

- Increasing the support mounding between golf holes and grading the course in a links style.
- Re-routing of holes 11, 12 and 13 to reverse their direction in order to improve player circulation and playing time.
- Moving Hole 9 to the west of the golf driving range in order to improve the safety zone of the driving range and remove the need for high netting.
- Realigning the centerlines of holes: 10, 16, 17, and 18 to improve the strategic layout and visual experience of the golf course.
- Lowering the elevations of tees 4 and 6. This eliminated the retaining wall proposed at the northeast corner of the Site.
- Adding a golf training area at the north end of the driving range. This required shifting the centerline of Hole 8 slightly north and increasing the support mounding around this area to buffer the adjacent holes.
- Increasing the mounding adjacent to the TBTA toll plaza in order to block noise and adjacent traffic from view.
- Shifting the Site roadway along the east side of the bridge to accommodate a TBTA easement that extends 25 feet east of the bridge. This required changes to the parking lot at the clubhouse and the location of detention/water quality basin and Waterfront Park.
- Eliminating the Boathouse Grill restaurant in the Waterfront Park. A restaurant would be located within the banquet facility. Parking spaces for the banquet facility were increased to

accommodate the restaurant. A restaurant may be constructed within the Waterfront Park in a future phase, based on economic demands.

- Modifying the parking lot for the Waterfront Park. The 120 parking spaces for the Waterfront Park will be located near the Whitestone Bridge approach structure.

These proposed changes to the Project increased the total needed in-place fill volume for the project to 2,370,000 cubic yards to shape the golf course in a links style.

The quantification of the imported fill material was continuously tracked by both truck volume and periodic topographic surveys of in-place volumes. Initially it was assumed that truck volume would be reduced by 25% when compacted into place, but a new correction factor was to be calculated. On November 1, 2004, the NYSDEC approved a revised truck correction factor of 42.4%, which was based upon an October 10, 2003 30% aerial topographic survey, and on December 7, 2004, the NYSDEC approved a revised truck correction factor of 41%, which was based upon a July 17, 2004 60% aerial topographic survey. These recalculations were performed by dividing the actual in-place volume by the total cubic yards of truck volume delivered to the Site as of the date of the survey, as required by the 2002 Permit.

TRC prepared the 2005 Engineering Report, which comprised of Volume #1, Volume #2, and a 26 sheet drawing set entitled, "Ferry Point Park Public Recreational Facility Bulk Earthwork, Bronx, New York, Supplement No. 2". The 2005 Engineering Report is included in Appendix 20 and represented the following scope of work:

- An 18 hole golf course with practice area;
- Maintenance Area in the northwest corner of the Site;
- Clubhouse parking lot in the southwest portion of the Site;
- Banquet Facility in the southwest portion of the Site (along Emerson Avenue);
- Community Park;
- Waterfront Park with parking lot; and
- Drawing G-3 and G-4 of "Ferry Point Park Public Recreational Facility Bulk Earthwork, Bronx, New York, Supplement No. 2", showed the deviations in grading between the plans approved on October 18, 2002 with the proposed plan.

On November 18, 2005, the NYSDEC issued the 2005 Permit authorizing the importation of a total of 2,370,000 cubic yards of in-place fill material to the Site. The fill material was to consist of approximately 2,120,000 cubic yards of select exempt construction and demolition debris for the shaping layer, and approximately 250,000 cubic yards of uncontaminated soil for the cover layer. The correction factor was 41% at that time and could be further modified.

On January 22, 2009, in accordance with Special Condition 10 of the 2005 Permit, TRC submitted a revised truck reduction factor of 40.3%. On September 18, 2009 TRC submitted a truck reduction factor of 43.3% based on a May 10 2009 aerial topographic survey. On February 11, 2010, the NYSDEC approved a truck reduction factor of 41.7% as submitted by the IEM on December 11, 2009 (included in Appendix 19).

The Golf Course layout that NYCDPR moved forward with was modified from what was shown in the 2005 Engineering Report as revised by the 2013 Engineering Report. One major change was the complete removal of the Banquet Facility in the southeast part of the Site. There were also changes in the placement, alignment, and grading of some holes on the Golf Course.

On February 1, 2013, the NYSDEC granted a permit modification to increase the limit of cover material from 250,000 to 394,000 cubic yards with the stipulation that NYCDPR revisit the correction factor for cover layer material. It was determined that the correction factor for the granular cover material (sand) was 18%. This revised the truck volume to 480,488 cubic yards. The correction factor for cover layer material was approved per an April 26, 2013 letter from NYSDEC to NYCDPR as included in Appendix 19.

On May 21, 2014, the NYSDEC issued the 2014 Permit to NYCDPR to allow the import of a total of 2,514,000 cubic yards of in-place fill material including 2,120,000 cubic yards of in-place shaping layer material and 394,000 cubic yards of in-place cover layer material.

3 Fill Importation QA/QC Program

Fill material importation commenced on August 2, 2000 and the last day for fill import was May 5, 2015. The fill importation QA/QC program implemented for the Project based on the Permit and associated reference documents was adhered to. The fill importation consisted of two main components including source site reviews and on-site inspections. A source site review was conducted by the IEM prior to any fill material being imported to the Site and additional visual and photo-ionization detector (PID) inspections were completed by the IEM upon the material entering the Site at the IEM inspection platform and again once the material was dumped at the work or stockpile location on the Site.

3.1 Source Site Reviews

Prior to any shaping layer or cover layer material being imported to the Site, each potential source was thoroughly evaluated by the IEM. An environmental review was performed for all proposed source sites in accordance with Special Condition 24 of the 2014 Permit. The source site review process criteria was specified in the Report on Fill Management, Operations and Maintenance, prepared by TRC on May 16, 2000, and revised June 30, 2005 (Volume #2 of the 2005 Engineering Report). The source site review process was modified over time as compared to the original process outlined in the various engineering reports and permit modification requests. The process generally consisted of the following main components:

1. NYCDPR would notify the IEM of a new potential source site. NYCDPR would provide the IEM with the site name and location as well as any available historical site information and soil environmental analytical results that existed for the potential source site.

2. Once NYCDPR confirmed that they wanted to move forward with pursuing the potential source site, NYCDPR authorized the IEM to retrieve any available site information from Environmental Data Resources, Inc. (EDR) which included environmental and historical land use records for the source site property under evaluation including Sanborn maps, city directories, topographic maps, and aerial photographs. NYCDPR then completed an initial review of the existing site information,

generated a sampling plan, and provided the results of the initial review and sampling plan to the IEM. NYCDPR then authorized the IEM to conduct a desktop review of the existing site information (i.e. EDR), any available soil environmental analytical results, and NYCDPR's sampling plan. The IEM provided NYCDPR with comments related to their review and their sampling plan in consultation with the NYSDEC. Once a final sampling plan was agreed upon, the source site investigation was initiated and executed per the NYCDPR sampling plan with IEM oversight. For source sites with in situ material, test pits were typically completed with additional soil samples inspected, collected, and analyzed in accordance with the Permit requirements. Once all the sampling was completed, the IEM reviewed sample results and the IEM generated a memorandum summarizing the review process and provided recommendations and requirements necessary for NYCDPR to address in order to continue pursuing the potential source site. The recommendations typically included conditions associated with overseeing the excavation, loading, and import of the source site material to the Site in accordance with the Permit. The IEM submitted the memo of recommendations to the NYSDEC for review and comment prior to issuing the final memorandum to NYCDPR. The NYSDEC would provide final comments and approval of the source site with any additional required conditions.

3. If NYCDPR determined that the potential source site was worth pursuing considering site-specific conditions, schedules, etc., they coordinated with the source site operator and IEM on importation schedule and requirements. The IEM provided oversight to confirm that the loading, hauling, and overall import of the approved material was completed in accordance with the memorandum of recommendations, NYSDEC conditions, and the Permit.

4. The IEM provided oversight during export from the approved source sites on an as needed basis and provided oversight at each source site during additional sampling activities if the source site was exporting more than the minimum sampling frequency outlined in the Permit (i.e. 10,000 cubic yards for shaping layer material and 2,000 cubic yards for cover layer material).

If at any time during the review process there were reasons for concern identified by the IEM resulting in the potential source site being classified as a "complex" source site, the NYSDEC became the primary reviewer and made final recommendations related to additional site investigation requirements or approval/rejection of the potential source site with support from the IEM. A complex source site was defined by the presence of an abundance of or particular Recognized Environmental Concerns ("RECs") and the NYSDEC made any decisions related to approval and/or associated conditions for further evaluation or import of the fill material.

A flow chart detailing the source site review process is included as Appendix 21.

Details of source site review and site testing activities are included in the report text and tables of each bi-weekly Fill Management Report issued by the IEM. Source site review supporting information and testing data is included in Appendix 8.

The following is a listing of source site reviews completed by the IEM since October 25, 2010. Since October 25, 2010, Woodard & Curran's first day as the IEM, 42 potential source sites were formally identified as potential fill source options by NYCDPR. Of the 42 potential source sites identified since October 25, 2010, 39 were advanced to at least a preliminary review stage. Potential source sites did not advance to a full source site review for various reasons such as changes in schedule, insufficient material, financial infeasibility, red flags identified with past uses of the source site, etc. Details of each source site review and site testing activities completed by the IEM, prior to any importation to the Site, are included in Sections 3.1.1 and 3.1.2 below.

A total of 15 of the potential source sites evaluated after October 25, 2010 and through project completion resulted in material being imported to the Site during that same time period. It is noted that all of the source site reviews included in Sections 3.1.1 and 3.1.2, are associated with the Golf Course and all cover layer material exposed at the surface within the golf course was imported from the cover layer material source sites included in Section 3.1.2 below. Refer to FMRs 1 through 241 for details related to source site reviews and site testing prior to October 25, 2010, which are included in Appendix 6.

For a list of source sites that imported material to the Site between November 18, 2005 and October 25, 2010, see the table included in Appendix 12. Refer to FMRs in Appendix 6 for source sites and estimated fill material imported to the Site prior to November 18, 2005.

The following were potential source sites that were identified by NYCDPR since October 25, 2010 where a review was not initiated:

1. 10 Byron Place (Larchmont, NY)
2. College Point
3. PS-331 (Tremont Avenue, Bronx, NY)

The following were potential shaping layer source sites that were identified by NYCDPR since October 25, 2010 with some level of source site review being completed. Source sites that resulted in a complete review and the importation of shaping layer material to the Site after October 25, 2010 are identified with bold text.

1. **PS-310 (942 62nd Street, Brooklyn, NY)**
2. PSAC
3. Barclays Arena (620 Atlantic Avenue, Brooklyn, NY)
4. JFK Jet Blue/Delta Runway (Jamaica, NY)
5. Columbia University
6. Long Island Jewish Center (270-05 76th Avenue, New Hyde Park, NY)
7. Highbridge Terrace (220 West 167th Street/Sedgewick Avenue, Bronx, NY)
8. Astoria (27-07 23rd Avenue, Queens, NY)
9. **Eastside Access (Queens Street and Jackson Avenue, Queens, NY)**

10. **Kew Gardens (Van Wyck Expressway between Grand Central Avenue and 86th Avenue, Queens, NY)**
11. PS-285 (1065 Martin Luther King Boulevard, Bronx, NY)
12. Flushing Hotel (133-63 Roosevelt Avenue/39-20 Prince Street, Queens, NY)
13. **2nd Avenue (2nd Avenue and 94th Street, New York, NY)**
14. 2nd Avenue (2nd Avenue and 72nd Street, New York, NY)
15. Alexander Hamilton Bridge (Bronx, NY)
16. **Throgg's Neck/Target/USPS (815 Hutchinson River Parkway, Bronx, NY)**
17. **PS-287 (110-10 Northern Boulevard, Queens, NY)**
18. City Point Brooklyn (1 Dekalb Avenue, Brooklyn, NY)
19. 400 Park Avenue South (New York, NY)
20. **Union Street (43-31 Union Street, Flushing, NY)**
21. **Mount Vernon Recycling Corp. (113 Edison Avenue, Mount Vernon, NY)**
22. 228th Street (Rosedale, NY)
23. Evergreen Recycling/Tully Environmental (Willets Point Boulevard, Corona, NY)
24. Waterpointe-Whitestone
25. Don Carlo Environmental/Brooklyn (1247 38th Street, Brooklyn, NY)
26. Castle Hill Recycling (1000 Zerega Avenue, Bronx, NY)
27. Springfield Gardens
28. Calvert Vaux (Brooklyn, NY)
29. 160 Myrtle Avenue (Brooklyn, NY)
30. 215 E. 68th Street (New York, NY)
31. **DEP Valhalla (10 Walker Road, Valhalla, NY)**
32. **Tilcon (Bronx) (980 East 149th Street, Bronx, NY)**
33. **NY Recycling (475 Exterior Street, Bronx, NY)**
34. Little Bay (Queens, NY)

The following were potential cover layer source sites that were identified by NYCDPR after October 25, 2010 with some level of source site review being completed. Source sites that resulted in complete reviews and the importation of cover layer material to the Site after October 25, 2010 are identified with bold text.

1. **Bloomingburg (C.M. & Sons Trucking Site, 680 Bloomingburg Road, Bloomingburg, NY)**
2. **Ranco Sand (115 South Street, Manorville, NY)**
3. **East Coast Mines (Lewis Road near Route 104, East Quogue, NY)**
4. Amboy Aggregates (415 Main Street, South Amboy, NJ)
5. **Long Island Compost/Great Gardens (445 Horseblock Road, Yaphank, NY)**

3.1.1 Shaping Layer Material

Materials accepted for use as shaping layer on the Site were sampled prior to acceptance and after the import of each additional 10,000 cubic yards as required by Special Condition 14 of the 2014 Permit. For recycling facilities, sampling was conducted after each additional 5,000 cubic yards. As per the November

18, 2005, Permit Modification, each soil sample was analyzed for TCLP VOCs and metals as well as total VOCs, SVOCs, priority pollutant metals, pesticides, PCBs, sulfur, and asbestos.

Fill material imported to the Site and used for the shaping layer was analyzed for the following parameters, per Special Condition 14 of the 2014 Permit. A description of which can be found below as included in Section 4.2.1.1 of the 2013 Engineering Report.

Based on source site reviews and site testing activities, the shaping layer material imported to the Site met the following chemical limits:

Total carcinogenic SVOC levels less than 10 ppm from individual fill material sources, provided that a weighted average of equal or less than 3 ppm for the entire Project. The following are the list of carcinogenic SVOCs that are subject to this 10 ppm limit: Benzo(a)pyrene, Dibenzo(a,h) anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Indeno(1,2,3-cd)pyrene, Benzo(k)fluoranthene, and Chrysene.

Total SVOCs less than 500 ppm.

Metals:

- Arsenic less than 28 ppm;
- Barium less than 2,000 ppm;
- Cadmium less than 20 ppm;
- Chromium less than 1,000 ppm;
- Copper less than 1,000 ppm;
- Lead less than 400 ppm;
- Mercury less than 0.57 ppm;
- Selenium less than 11 ppm;
- Silver less than 100 ppm

Asbestos for all layers 0.5% or less
Total sulfur for all layers 0.5% or less
Total PCBs less than 10 ppm
Total Pesticides less than 10 ppm
VOCs (all individual analytes less than TAGM 4046)

In a letter dated October 25, 2006 (included in Appendix C.1 of the 2013 Engineering Report), the NYSDEC provided a clarification adding that a carcinogenic SVOC limit of 10 ppm or lower is allowable from individual fill material sources, provided that a weighted average of equal or less than 3 ppm is achieved by the end of the Permit.

NYCDPR followed the NYSDEC's directives since receipt of each one associated with the importation of shaping layer material to the Site.

Details of the source site reviews and site testing for each potential shaping layer material source site are as follows:

3.1.1.1 PS-310 (942 62nd Street, Brooklyn, NY)

Source site testing analytical results for the PS-310 site were provided to the IEM by NYCDPR in a submittal dated October 6, 2010, and reviewed by the IEM for potential shaping layer material, based on the site visit performed by Gannett Fleming (the previous IEM) on September 21, 2010, and as recommended in their memo dated September 28, 2010. Samples were collected and tested by Analytical Chemists and issued via lab reports dated October 1, 2010. Analytical results were collected from five test pits from both the fill and natural formation soil layers. An exceedance of lead relative to the Site Permit shaping layer material chemical limits was noted in the fill layer within test pit #3. This information was factored into the final memo of recommendations issued by the IEM dated October 26, 2010 regarding the approved locations and depths of shaping layer material from the source site.

The IEM was on-site on November 10, 2010 to visually inspect and confirm that all fill and petroleum impacted fill from Areas of Concern 1 and 2 were removed. The IEM was also on-site on November 12, 2010 to observe the sampling of three additional sample locations of natural formation soil. The IEM submitted a detailed email to the NYSDEC and NYCDPR summarizing the November 12, 2010 site visit. Shaping material analytical results were reviewed for the PS-310 source site for three samples collected on November 12, 2010. All parameters met Permit criteria for import to the Site.

Approximately 5,308.48 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.2 PSAC

Initial site and fill material information was provided to the IEM between October 25 and November 5, 2010 by Gannett Fleming (the previous IEM). No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.3 Barclays Arena (620 Atlantic Avenue, Brooklyn, NY)

Initial site and material information was provided to the IEM by Gannett Fleming (the previous IEM) between October 18 and November 5, 2010. An initial site visit was completed by the IEM to initially inspect site conditions and materials at the source site. The IEM issued a memo of recommendations for the source site on November 16, 2010 based on materials available at that time. Materials were not reviewed further or imported to the Site at that time.

New material became available at this source site and additional data was provided for IEM review between December 18 and December 31, 2010. The review of this additional data and associated information was initiated. The sampling plan from mid-November 2010 was resubmitted to NYCDPR for the new materials being evaluated at Barclays Arena between January 1 and January 14, 2011 as the

original plan still applied to the additional/revised materials being made available. NYCDPR subsequently notified the IEM that the site source manager did not consider the Site as a viable option at that time.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.4 JFK Jet Blue/Delta Runway (Jamaica, NY)

On December 3, 2010, NYCDPR forwarded the IEM initial lab data for this potential source site associated with a Jet Blue/Delta runway at JFK Airport. On December 6, 2010, the IEM visited the potential source site to inspect the material totaling an estimated 7,000 cubic yards. The IEM witnessed evidence of asphalt and slag in the fill material and notified NYCDPR and the NYSDEC that the material was not a viable option for import to the Site. (See section 3.2.3)

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.5 Columbia University

Initial site and material information was provided to the IEM by Gannett Fleming (the previous IEM) between October 25 and November 5, 2010.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.6 Long Island Jewish Center (270-05 76th Avenue, New Hyde Park, NY)

The IEM conducted an initial site visit on November 5, 2010. An email containing the summary of site visit activities and summary of recommendations was provided. The IEM issued a formal memo of recommendations on November 11, 2010.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.7 Highbridge Terrace (220 West 167th Street/Sedgewick Avenue, Bronx, NY)

On January 10, 2011, a formal fill source site review was initiated for the Highbridge Terrace source site. Sanborn Maps, historical topography maps, historical aerial photos, and the EDR and NYSDEC Spill Databases were reviewed. Approximately 5,900 cubic yards of potential fill material was reportedly available. Initial analytical data was provided however, the IEM was informed by NYCDPR that this potential source site was no longer a viable option at the time and further review did not occur.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.8 Astoria (27-07 23rd Avenue, Queens, NY)

A formal fill source site review was conducted for the Astoria source site February 3, 2011 and consisted of the review of historical information and existing source site sampling data and EDR information. The existing sample data was reviewed and some sample results did not meet the Site Permit limits for shaping material. Preliminarily, the site contractor estimated approximately 2,000 cubic yards of potentially approvable material. The initial review was completed and NYCDPR reported that this source site was no longer a viable option and no further action was expected.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.9 Eastside Access (Queens Street and Jackson Avenue, Queens, NY)

A coordination call was held with the IEM, NYCDPR, and the source site contractor on February 8, 2011. The IEM witnessed initial source site sampling as requested by NYCDPR at the Eastside Access source site on February 9, 2011. A total of seven grab sample collections were observed and one discrete VOC sample collection was observed. The existing stockpile was estimated to measure approximately 2,000-4,000 cubic yards based on an approximation of stockpile dimensions by the IEM.

The IEM received a submittal of information from NYCDPR between February 12 and February 25, 2011. The IEM reviewed the material and found the site to be noncompliant with the Site Permit as material could not be segregated and stockpiled at the source site. Per NYSDEC directive, NYCDPR would be coordinating directly with the NYSDEC for further site review. The site was reviewed by the NYSDEC and a site-specific analytical parameter list (for Metals) was approved by the NYSDEC between March 12 and March 25, 2011.

Between March 26 and April 8, 2011, the IEM was notified by the NYSDEC and NYCDPR that this source site had been approved to export fill materials to the Site by the NYSDEC. The IEM discussed the conditions of the approval with the NYSDEC and began witnessing sample collection of the East Side Access crushed stone material and review of lab reports.

The IEM conducted monitoring of shaping layer material sampling and loading at the East Side Access source site for materials exported to the Site. Sampling at this source site generally occurred the day before materials were expected to ship to the Site. Samples were being analyzed for metals, laboratory results were compared to the Site Permit requirements, and no exceedances of shaping material limits were identified.

Between April 2011 and December 2011, the IEM continued monitoring for this source site. The IEM witnessed sample collection of East Side Access crushed stone material every 10,000 cubic yards, reviewed lab reports, and periodically monitored loading of trucks with shaping layer materials for export to the Site as materials were shipped to the Site.

The IEM reviewed the lab results related to the IEM witnessed source site sampling conducted on December 12, 2011 for proposed shaping material at the East Side Access source site and found the sampled material to be unacceptable for import to the Site based on the fact that the detected value for Arsenic was 48.7 ppm. The permit allowable maximum concentration for Arsenic is 28 ppm. The sampled material was determined to be unacceptable for import to the Site as shaping layer material per the Permit.

NYCDPR requested that the material sampled on December 12, 2011 be removed from consideration for import to the Site and requested that a sample be collected for the next available material at the East Side Access source site. The IEM reviewed the lab results dated December 14, 2011 related to the IEM witnessed sampling conducted on December 13, 2011 for the proposed shaping material and found them to be acceptable based on the fact that the RCRA metals results fell below the Permit shaping layer material allowable maximum concentrations and the Permit USEPA referenced testing method was used. It was determined that approved shaping material to be imported to the Site could only originate from the stockpiles witnessed during the December 13, 2011 sampling event. Material previously sampled on December 12, 2011 was not imported to the Site.

NYCDPR and their associated representatives hypothesized that the unacceptable sample results for arsenic may be a result of a change in the rock removal process, which included drilling, blasting, and crushing to generate the shaping layer material. On December 16, 2011, the NYSDEC stated that if the mining technique did not change (i.e. drilling as opposed to blasting) the sampling frequency could remain unchanged on the basis of the number of successful past results. However, in the event of another failure, the sampling frequency would become one sample per 2,000 cubic yards. The IEM proceeded with observing one sample per 2,000 cubic yards based on a change in mining operations as per discussions with the source site operator.

On February 7, 2012, the NYSDEC stated that based on the number of successful test results for the East Side Access material since the December 12, 2011 failure due to high arsenic content, the NYSDEC approved NYCDPR's request for future testing of East Side Access material at a reduced frequency of one sample per 10,000 cubic yards.

On December 18, 2012, Analytical Chemists collected samples from stockpiled East Side Access Source Site shaping material at the Site that had elevated PID readings when scanned during the on-site inspection process upon import and after dumping. The six segregated loads of East Side Access shaping layer material passed the Site Permit criteria for shaping layer material based on sampling conducted at the Site. Sampling consisted of collected samples witnessed by the IEM on December 18, 2012. Therefore, the material remained on-site and was used as shaping layer material.

Approximately 191,293.87 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.10 Kew Gardens (Van Wyck Expressway between Grand Central Avenue and 86th Avenue, Queens, NY)

Initial site and material information was provided to Woodard & Curran by Gannett Fleming (the previous IEM) between October 25 and November 5, 2010.

A formal fill source site review was initiated for the Kew Gardens between November 6 and November 19, 2010 consisting of compiling and reviewing historical maps, photos, EDRs, and spills database and available information from the source site contractor.

A formal fill source site review was continued for the Kew Gardens source site between November 20 and December 3, 2010 and consisted of the review of Sanborn maps, topographic maps, aerial photographs, NYSDEC spills and remediation database, and the City Directory. A Phase II Environmental Site Assessment (ESA) and associated analytical data was reviewed and sample results did not exceed the Permit limits for shaping layer material. Preliminarily, the source site contractor estimated approximately 10,000 to 15,000 cubic yards of potentially approvable material was available.

On February 11, 2011, the IEM issued a memo of recommendations and sampling plan for the Kew Gardens source site.

The IEM conducted fill material source site sampling oversight at the Kew Gardens site on February 17, 2011. Six areas (1, 2, 3, 4, 5, and 9) were assessed by IEM desktop review and a sampling plan was submitted to, and approved by the NYSDEC for potential cover material evaluation. Representatives from the laboratory, NYCDPR, IEM, and the source site operator met prior to the initiation of sampling activities. The source site operator stated that the full extents of Areas 4, 5, and 9 would not be accessible for visual screening and analytical sample collection and soils in Area 9 were being actively loaded for off-site use. NYCDPR requested that source material evaluation proceed for accessible material. Composite grab and discrete VOC soil samples were collected for laboratory composite and analysis from Areas 1, 2, 5, and 9. Area 4 was not accessible for evaluation. Asphalt and other materials non-compliant with the Site Permit were observed on various soil horizons in Area 3, and as such, no samples were collected as the material was no longer considered for import to the Site.

On February 25, 2011, NYCDPR submitted draft analytical data from the Kew Gardens site for IEM review. At the request of NYCDPR, the IEM performed an initial review of the draft analytical data for cover material, understanding that no final determination can be made until the complete and final data package has been submitted, reviewed by the IEM, and approved by the NYSDEC. The initial IEM review identified cadmium in composite samples from Areas 1, 2, 5, and 9 at concentrations that exceed the Site Permit requirements for cover material. NYCDPR was informed and subsequently requested the material be evaluated for shaping layer material. No exceedances of the Site Permit requirements were identified in the draft data submittal. Additional draft data from the Kew Gardens source site was submitted on March 8, 2011. No exceedances of the Site Permit requirements were identified in that draft data submittal.

Final laboratory data was submitted to the IEM for review on March 18, 2011. Laboratory results were compared to the Site Permit requirements and no exceedances of shaping layer material limits were identified. Metals concentrations in the samples did exceed cover layer material limits. Fill material from

the Kew Gardens source site was approved by the NYSDEC for importation to the Site for use as shaping layer material on March 24, 2011.

Per NYCDPR request, the IEM submitted the Kew Gardens EDR files to NYCDPR on July 1, 2011.

Beginning on August 5, 2011, NYCDPR indicated to the IEM that they had renewed interest in considering shaping layer material from Area 17 at the Kew Gardens source site. The IEM provided a list of concerns and items to address in the sampling plan associated with the attempt to obtain approval for this shaping layer material. On August 11, 2011, NYCDPR indicated that the Kew Gardens review was on hold.

On September 19, 2011, IEM representatives were on-site at Area 17 of the Kew Gardens Source Site to perform a visual, physical, and PID inspection of the existing soil via a total of seven test pits excavated from ground surface to approximately 12 feet to 16 feet below the existing ground surface. The first four test pits were excavated to approximately terminal depth. The last three test pits were terminated prior to reaching terminal depth due to instability of the sidewalls as a result of the presence of dry sand material. The test pits were completed consecutively moving from south to north. The area consisted of approximately 10,000 cubic yards of proposed shaping layer material as identified by NYCDPR and the source site contractor. In addition, the IEM witnessed the collection of grab samples for chemical analysis by NYCDPR's laboratory and logged the test pit locations using handheld GPS equipment.

IEM staff observed an initial layer of organics, which contained a slight odor attributable to decomposition and yielded PID results of 0.1 to 0.5 ppm. This material was not approved for use at the Site and this was communicated directly to NYCDPR and the site contractor. The IEM indicated that any potential approval of shaping layer material from Area 17 would require the full removal of the organic layer prior to any loading and shipping of potentially approval soils to the Site, which would need to be confirmed by the IEM.

The soil below the initial organic layer (beginning approximately 0.5’-1.5’ below grade) consisted of brown, silt with some sand and a trace of clay. Cobbles and boulders were also evident throughout the soil profile. No soil staining or odors were observed, and the material encountered below the organic layer was generally consistent in composition. The soil shifted to more of a sand and cobble composition as the test pits progressed towards the north. No asphalt or any other debris was observed in the soil, and the PID scans did not yield any detections.

IEM staff observed the collection of a grab samples at approximately two-foot intervals in each of the seven test pits completed at the Kew Gardens Source Site on September 19, 2011. It was estimated by NYCDPR and the site contractor that approximately 10,000 cubic yards were available from Area 17 of the source site. In addition to the required discrete sampling of VOCs/TCLP VOCs, the lab was instructed by NYCDPR to run three composite samples for the remaining analyses. The composite samples consisted of the grabs from each depth interval. The first two test pits completed represented composite sample #1, the second two test pits represented composite sample #2, and the last three test pits represented composite sample #3.

The IEM completed a preliminary review of shaping layer material originally sampled on September 19, 2011 proposed for import to the Site from Area 17. The IEM required a revised lab report from Analytical Chemists which contained the TCLP VOA and Metals results as well as the dioxin/furan scan using SW 8270. All other lab data was complete and did not exceed any of the Site Permit criteria. Prior to final

approval to import this material to the Site, NYCDPR was required to obtain the NYSDEC's approval to use the alternative dioxin/furan analysis.

NYCDPR received NYSDEC approval to use Method 8270 for analysis of dioxins/furans at this source site on January 3, 2012. The IEM completed a final review of shaping layer material (originally sampled on September 19, 2011) proposed for import to the Site from Area 17 on January 4, 2012. The review of available lab data identified that sampled material does not exceed any of the Site Permit criteria. On January 5, 2012, the IEM inspected the source site and visually confirmed the removal of the top 0.5 feet to 1.5 feet of soil which consisted of an initial layer of organics that were previously considered unacceptable for import to the Site. It was determined that the available shaping layer materials from Area 17 totaling approximately 500 cubic yards of the original estimated 10,000 cubic yards were approved for export to the Site.

The source site operator provided the IEM with a proposed excavation plan on December 5, 2012 for additional materials available at the source site. On December 8, 2012, the IEM notified NYCDPR that the previous desktop review (i.e. EDR, etc.) performed for this source site was still applicable for the latest area proposed for excavation. The IEM was on-site at the Kew Gardens source site on December 14, 2012 to witness test pits and environmental sampling for additional shaping layer materials being considered for import to the Site.

On January 3, 2013, the IEM provided a memo of recommendations to the NYSDEC regarding an additional estimated 7,500 cubic yards of shaping layer material being considered for import to the Site that was sampled on December 14, 2012. On January 4, 2013, the NYSDEC approved the importation of this material to the Site subject to the following conditions. The outer limits and depths of all areas of excavation should be clearly delineated in the field and confirmed by the IEM in the field prior to any excavation, loading, or trucking of approved soils. The approval only applied to the material samples and inspected on December 14, 2012, consisting of what appeared to be native material, free of debris and any traces of organics. The limits beyond test pit #8 consisted of observed unauthorized C&D material mixed into the soil (i.e. metal and glass, etc.), and were not approved for import to the Site. The IEM periodically inspected the excavation and hauling activities at the Kew Gardens Phase II site to perform visual and physical screening of the proposed shaping layer material. Inspection frequency was at the discretion of the IEM and the NYSDEC. The exportation of all material to the Site was conducted in accordance with the current Permit requirements (i.e. trucking manifests, etc.).

On June 5, 2013, the IEM issued a third memo of recommendations dated June 5, 2013 for the Kew Gardens source site. The IEM notified NYCDPR that the latest round of shaping layer material (approximately 5,000 CY) was acceptable for import to the Site due to the fact that the material met the Site Permit requirements. The approval applied to the material sampled and inspected on May 22, 2013, consisting of what appeared to be native material, free of debris and any traces of organics, and as delineated horizontally and vertically on the provided test pit plan. The top portion of unauthorized soil (i.e. RCA, geotextile, organic) was stripped and removed off-site to the depths and locations listed on the provided test pit plan, and this condition was witnessed by the IEM prior to importation to the Site. The importation of all material to the Site was conducted in accordance with the Permit requirements (i.e. trucking manifests, etc.).

Approximately 11,988.51 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.11 PS-285 (1065 Martin Luther King Boulevard, Bronx, NY)

On March 10 and 11, 2011 the IEM was provided with fill source site documentation for the PS-285 source site. The IEM initiated review of the source site materials provided per request of NYCDPR. Site visits to the PS-285 source site by the IEM were completed on March 14, 2011 to observe test pits and on March 25, 2011 to discuss the approval process and submittal requirements. NYCDPR requested the IEM purchase an EDR Report for the site on March 25, 2011.

The IEM witnessed additional test pits and sampling on March 29, 2011. At the time of sampling, certain portions of the source site were not accessible for sampling. Samples were collected from four test pits and composited into two samples. Lab results were provided on March 30, 2011, but were deemed incomplete by the IEM. A revised report was submitted to the IEM addressing the missing parameters, but it did not address the non-compliant dioxin/furan USEPA Test method used to generate the lab report. Final laboratory data was submitted to the IEM for review on April 5, 2011. Laboratory results were compared to the Site Permit requirements and no exceedances of shaping material limits were identified. Additional review by the IEM and the NYSDEC was required to determine if the source site was approved for material importation to the Site. The IEM completed the review of NYCDPR's EDR and desktop review, and issued a memo to the NYSDEC detailing the IEM's review results on April 5, 2011. The NYSDEC provided their review comments on April 7, 2011.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.12 Flushing Hotel (133-63 Roosevelt Avenue/39-20 Prince Street, Queens, NY)

NYCDPR requested that the IEM order and provide the EDR materials to NYCDPR for their review and submission to the IEM. The draft initial submittal was provided to the IEM over the course of several days (April 5, 6, and 7, 2011). The IEM’s review commenced during this timeframe.

The IEM witnessed test pits and sampling at the Flushing Hotel source site on April 8, 2011. Final laboratory data was submitted to the IEM for review on April 19, 2011. Laboratory results were compared to the Site Permit requirements and no exceedances of shaping layer material limits were identified. Additional review by the IEM and the NYSDEC was required to determine if the source site was approved for material importation to the Site.

The IEM conducted a review of NYCDPR's EDR review, as well as a full review of the EDR, and submitted Phase I and Phase II ESA reports. The IEM reviewed the lab results provided on April 19, 2011. The IEM prepared a review document dated April 20, 2011 titled "Flushing Hotel Source Site - Desktop Submittal Review" and submitted it to NYSDEC and NYCDPR. The NYSDEC provided a response on April 21, 2011.

NYCDPR provided the IEM with supplemental historical lab data and two (2) separate Phase II reports on April 26, 2011. The IEM provided additional review comments based on the aforementioned documents to NYCDPR via conference call and email on April 29, 2011. NYCDPR provided a draft submittal response package dated May 5, 2011.

NYCDPR provided the IEM with a final submittal dated May 13, 2011 in response to IEM comments. The IEM reviewed the final submittal and transmitted that submittal to the NYSDEC for review and comment on May 18, 2011. Due to the fact that this was a complex site, final comments regarding acceptance for import to the Site was to be provided by the NYSDEC.

Conditional approval for the export of shaping material from rows 4, 5, and 6 was provided from the NYSDEC on May 27, 2011. The IEM witnessed the first day of test pits on June 3, 2011 as requested by NYCDPR. Five test pits were excavated at the source site to the maximum depth reachable by the heavy equipment available. The IEM witnessed a second day of test pits on June 6, 2011 as requested by NYCDPR. Three additional test pits were excavated to the maximum depth reachable by the heavy equipment available. NYCDPR submitted a revised site review proposal for importing shaping layer material from this source site on June 15, 2011.

A total of eight (8) test pits were excavated at the Flushing Hotel source site on June 3 and June 6, 2011. One composite sample and one discrete VOC sample was collected from each test pit. Lab results were submitted to the IEM on June 10, 2011. The IEM provided preliminary review and comments to NYCDPR regarding the source site review proposal on June 17, 2011.

The IEM submitted the memo of recommendations to the NYSDEC on June 20, 2011. The IEM visited the site on June 21, 2011 to confirm conditions within the memo of recommendations were met or could be achieved. The IEM reported conclusions to the NYSDEC via email on June 21, 2011. The observed site conditions did not allow for the source site to be approved due to the presence of asphalt, objectionable material, and stockpiles that did not allow for the confirmation of soil elevations. The NYSDEC also indicated that as of June 21, 2011, a formal submittal from NYCDPR to NYSDEC had not occurred to date. The IEM's site observations from June 21, 2011, were emailed to NYCDPR on June 23, 2011. NYCDPR submitted a revised site proposal on June 27, 2011. On June 28, 2011, the IEM indicated that items included in NYCDPR's submittal were non-complaint with the current Site Permit requirements, and therefore required approval from the NYSDEC.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.13 2nd Avenue (2nd Avenue and 94th Street, New York, NY)

The IEM witnessed fill material sampling for this potential source site on May 12 (two samples) and May 16, 2011 (one sample) regarding acceptance of crushed rock from NYCMTA's 2nd Avenue Subway construction project at 94th Street in Manhattan. Samples were analyzed for the nine RCRA metals and all passed the Site Permit requirements relative to the nine RCRA metals. One sample on May 12 was collected from material directly out of the hopper after it was deposited into a truck and the other sample was taken from a stockpile. The May 16 sample was also taken from material that came directly out of the hopper and deposited directly into a truck. The NYSDEC performed all associated reviews for this

source site similar to the East Side Access source site due to the nature of the material that was being generated from subway tunnel construction.

The NYSDEC provided approval for this source site to export shaping layer material to the Site. Shaping layer material sampling began on May 26, 2011 and occurred on a continual basis after each consecutive 2,000 cubic yards of material was imported to the Site.

Approximately 86,667.95 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.14 2nd Avenue (2nd Avenue and 72nd Street, New York, NY)

NYSDEC staff reviewed NYCDPR's submittal dated October 28, 2011 regarding acceptance of crushed rock from NYCMTA's 2nd Avenue Subway construction project at 72nd Street in Manhattan which was proposed for import to the Site. NYCDPR's proposal was acceptable to the NYSDEC provided that a composite sample of this material was tested for the proposed analytical parameters and the sample results were obtained (and approved) prior to loading material for export to the Site.

The IEM reviewed the lab results related to the IEM witnessed source site sampling conducted on December 5, 2011 for the proposed shaping layer material at the source site. The IEM identified that the sampled material was unacceptable for import to the Site based on the fact that the detected value for Arsenic was 38.4 ppm. The permit allowable maximum concentration for Arsenic is 28 ppm. The sampled material was determined to be unacceptable for import to the Site as shaping layer material per the Permit. It was determined that no material may be imported from the 2nd Avenue at 72nd Street source site to the Site. The IEM also witnessed that the physical composition of the sampled material was not that of pure stone dust as witnessed previously at the 2nd Avenue (94th Street) and East Side Access source sites. This material had stones as large as 12 inches to 24 inches in size. The IEM was advised that the hopper at the 2nd Avenue at 72nd Street source site used a screen that contained openings that were 24 inches by 20 inches.

On December 5, 2011, NYCDPR requested that the IEM witness one additional sample from the 2nd Avenue at 72nd Street source site. On December 6, 2011 in response to NYCDPR’s request to perform one additional sample, the NYSDEC stated that if re-sampling produced acceptable results, a more stringent sampling frequency would be required for this source (i.e. one sample per 2,000 cubic yards instead of one sample per 10,000 cubic yards). NYCDPR advised the IEM that they were not pursuing material from this source site any further because it did not meet the specified physical properties for the golf course construction.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.15 Alexander Hamilton Bridge (Bronx, NY)

NYCDPR notified the IEM on February 8, 2012 that NYCDPR was interested in the opportunity to obtain potential shaping layer materials from the Alexander Hamilton Bridge source site (originally sampled July

7, 2009) which had been reviewed and approved in the past by the previous IEM. The IEM requested, obtained, and reviewed the previous files for the source site including previous approvals and corresponding lab data. On February 10, 2012, the IEM requested and received the proposed location for the recently considered shaping layer material.

The IEM visited the Alexander Hamilton Bridge source site on February 22, 2012. The IEM visually inspected a stockpile of approximately 3,000 to 5,000 cubic yards of potential shaping layer material from the previously approved source site (as per IEM records from 2009). Upon a visual inspection, it was determined that the material did not meet the Site Permit requirements due to the presence of unauthorized C&D material including asphalt and metal, as well as other miscellaneous debris. Site observations were photo documented. The IEM notified NYCDPR of its observations and NYCDPR determined that they did not want to pursue this source site any further at that time.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.16 Throgg's Neck/Target/USPS (815 Hutchinson River Parkway, Bronx, NY)

On February 28, 2012, NYCDPR requested that the IEM begin the source site review for the Throgg's Neck/Target/USPS source site. The source site was an existing USPS building that was proposed to be redeveloped with a new Target retail building. The anticipated volume of material being considered as potential shaping layer material was reported to be approximately 20,000 cubic yards per information forwarded to the IEM by NYCDPR. The IEM ordered the EDR and provided the EDR information to NYCDPR. The IEM reviewed the Phase I ESA and the Phase II ESA. The IEM completed a review of the EDR on March 9, 2012. NYCDPR provided the IEM with an EDR review memo on March 27, 2012. The IEM provided NYCDPR with some initial comments and NYCDPR submitted a revised EDR review memo on April 2, 2012.

NYCDPR provided the IEM with a proposed sample location plan with proposed depths for source site sampling on April 19, 2012. The IEM provided comments on a revised sampling plan identifying the location and quantity of test pits on April 20, 2012.

The IEM witnessed three of ten proposed test pits and the associated source site sampling at the source site on April 25, 2012. The remaining test pits were completed and witnessed by the IEM on May 11 and May 14, 2012.

The IEM reviewed the lab data (originally dated May 15 and May 24, 2012 and revised May 30, 2012) and no exceedances of shaping layer material limits were identified. The IEM prepared a memo of recommendations and submitted it to the NYSDEC on May 30, 2012. The NYSDEC reviewed the IEM's May 30, 2012 memo of recommendations for the source site. On May 31, 2012, the NYSDEC approved importation of shaping material from this source site to the Site, provided that all recommendations in the memo of recommendations were implemented. The source site commenced trucking shaping layer material to the Site.

The IEM conducted an inspection of the source site on November 6, 2012. The purpose of the inspection was to determine if site conditions warranted allowing the source site to resume importation of shaping layer material to the Site, in light of the nine truck rejections (due to presence of asphalt) that occurred on October 23, 2012 (resulting in ceasing of importation that same day). Based on the IEM inspection and observations, it was determined that importation may resume to the Site. Observations included surface asphalt had been stripped from within the approved limits of excavation between former TP-6 and TP-8, stockpiles of excavated soil from areas outside the approved excavation limits (i.e. cut along Weiner Place) were located outside the approved excavation limits, and no stockpiles of asphalt material or other poor housekeeping practices were observed within the current area in preparation for export to the Site. NYCDPR was notified that all importation must comply with all previous conditions outlined in the source site approval memo of recommendations (i.e. top +/-3 feet of fill was not approved for importation to the Site; this layer was clearly identifiable due to its color and consistency relative to the native approved material).

The IEM was on-site at the source site on February 6, 2013 to complete a source site inspection associated with a request to resume import to the Site. The site was approved to resume importation of shaping layer material on February 6, 2013 based on the IEM's inspection, which confirmed that the material originated from IEM inspected/approved areas, and the fact that the material is the native approved soil, and there are no signs of asphalt or historical fill on-site in the vicinity of the work area. The area inspected was consistent with the approved areas included in the original NYSDEC approval and IEM memo of recommendations.

Approximately 27,262.77 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.17 PS-287 (110-10 Northern Boulevard, Queens, NY)

On March 2, 2012, NYCDPR requested that the IEM begin the source site review for the PS-287 source site. The source site was a former parking facility that was being redeveloped into a new school. The anticipated volume of material being considered as potential shaping layer material was reported to be approximately 7,000 to 9,000 cubic yards per information forwarded to the IEM by NYCDPR. The source site operator expected to remove the top two feet of asphalt and historical fill, as well as a one-foot buffer. The potential shaping layer material that was being considered was what was claimed to be native soils from a depth of approximately 3 feet to 15 feet below grade. NYCDPR and the site operator wanted to proceed with sampling prior to review of the EDR. A sampling plan was provided to the IEM for review. The IEM completed a review of submitted documents including the Phase I ESA, Phase II ESA, and the proposed sampling plan and issued a review memorandum with comments on March 7, 2012. The site operator submitted a revised sampling plan for review by the IEM on March 8, 2012.

The IEM received NYCDPR's initial review of the EDR on March 14, 2012. The IEM completed a review of the EDR and forwarded a copy to NYCDPR on March 16, 2012. On March 16, 2012, the IEM requested that NYCDPR submit a revised EDR review memo incorporating the identified Recognized Environmental Concerns ("RECs") and other site conditions that were not included in the original review memo.

On March 22, 2012, the IEM received sample results for shaping layer source site sampling that occurred on March 15, 2012. The IEM completed an initial review of the sample data and although there were no exceedances relative to the Site Permit limits for the parameters that were analyzed in the lab reports, there were multiple parameters missing from the lab report.

The IEM received a revised lab report for the PS-287 source site on March 28, 2012. The IEM reviewed the revised lab report for the previously missing lab data and confirmed that the tested soil met the Site Permit criteria for shaping layer material. The IEM issued a memo of recommendations for this source site to the NYSDEC on March 28, 2012. The IEM visited the source site on March 30, 2012 and confirmed that all asphalt, historic fill, and areas not being considered for import to the Site were previously removed from the source site to the appropriate depth including the one-foot buffer below the fill layer. The NYSDEC approved the PS-287 source site for shaping layer material and NYCDPR was notified of the approval on April 2, 2012.

Approximately 6,754.8 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.18 City Point Brooklyn (1 DeKalb Avenue, Brooklyn, NY)

The IEM issued a desktop review summary for the City Point Brooklyn source site to the NYSDEC on July 27, 2012. The review included information acquired or provided to the IEM including EDR files, Phase II report, and boring information. The material being considered was approximately 22,000 cubic yards of native material proposed to be used as shaping layer material.

The NYSDEC approved the City Point Brooklyn source site for further investigation (i.e. physical and visual inspection via test pits and sampling) on August 13, 2012 since all environmental samples for the source site were made available to the IEM for review.

The IEM was on-site at the source site on August 31, 2012 to witness site investigation and sampling activities for 8,000 cubic yards of potential shaping layer material.

On September 11, 2012, the IEM received sample results for source site sampling that occurred on August 31, 2012. On September 20, 2012, the IEM issued a Site Investigation Memorandum (dated September 19, 2012) to the NYSDEC for review for the source site related to IEM witnessed activities that occurred at the source site on August 31, 2012.

On September 25, 2012, the NYSDEC notified the IEM that the City Point source site was conditionally approved pending implementation of the recommendations included in the IEM's September 19, 2012 Site Investigation Memorandum and satisfactory responses to NYSDEC questions.

On October 10, 2012, the IEM notified NYCDPR that the City Point Brooklyn source site was approved by the NYSDEC considering implementation of the recommendations included in the IEM's September 19,

2012 Site Investigation Memorandum. The IEM needed to complete a final inspection of the proposed material prior to importation to the Site.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.19 400 Park Avenue South (New York, NY)

The IEM received initial documents associated with this source site beginning on July 3, 2012. The IEM performed an initial review of the submitted documents. The IEM requested a proposed sampling plan on July 11, 2012.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.20 Union Street (43-31 Union Street, Flushing, NY)

On May 15, 2012, NYCDPR submitted a request to the NYSDEC to import shaping layer material from the Union Street source site. On June 11, 2012, the NYSDEC provided NYCDPR with email approval to import up to 30,000 cubic yards of shaping layer material from the Union Street source site based on environmental testing results submitted to the NYSDEC that was not witnessed by the IEM. On June 14, 2012, NYCDPR notified the IEM that they would begin importing, no earlier than June 18, 2012, an estimated 5,000 to 10,000 cubic yards of shaping layer material from this source site to the Site. The material originated from 30 to 55 feet below grade.

Approximately 1,675.69 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.21 Mount Vernon Recycling Corp. (113 Edison Avenue, Mount Vernon, NY)

On November 27, 2012, the IEM notified NYCDPR that the topsoil on-site that originated from the Mount Vernon Recycling Corp. facility was approved as shaping layer material based on previous NYSDEC approval allowing material to be used as shaping material, and the fact that the material passed all Site Permit criteria per IEM witnessed sample collection and a review of the associated analytical reports. The IEM witnessed sampling on October 11 and November 12, 2012. The approval was pending a receipt of all truck tickets/manifests, and confirmation of the volume of on-site soil. The Site Permit requires that this material be covered with a minimum 1-foot thick layer of approved cover soil.

Approximately 3,920.0 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.22 228th Street (Rosedale, NY)

The IEM completed a review of initial lab data dated December 28, 2012 for the 228th Street source site. Of the 12 lab reports that were reviewed, none of the sampled soil exceeded Site Permit levels for the shaping layer parameters that were analyzed in the reports. A significant number of parameters (including some VOCs, SVOCs, pesticides, and metals) were not analyzed and NYCDPR was notified of the review

findings on January 22, 2013. Sample collection for the submitted lab reports was not witnessed by the IEM.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.23 Evergreen Recycling/Tully Environmental (Willets Point Boulevard, Corona, NY)

On January 28, 2013, the IEM notified NYCDPR that an initial review of the lab data provided for the Evergreen Recycling source site (operated by Tully Environmental) was completed. Sampling was not witnessed by the IEM. There were no exceedances relative to the Site Permit criteria for shaping layer material, however there were a significant number of parameters that were not analyzed. The IEM received a Registration Form for a Waste Management Facility (DEC Registration # 41W93) for the source site. The IEM performed a visual inspection of stockpiled material at the source site material on January 30, 2013 and identified asphalt fragments in the source site material. The stockpiled material was not acceptable for import to the Site based on the presence of asphalt.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.24 Waterpointe-Whitestone

On February 1, 2013, the IEM notified NYCDPR that an initial review of the lab data provided for the Waterpointe-Whitestone source site was completed. Sampling was not witnessed by the IEM. There were no exceedances relative to the Site Permit criteria for shaping layer material, however there were a significant number of parameters that were not analyzed.

On March 27, 2013, the NYSDEC informed NYCDPR that shaping layer material from the Waterpointe-Whitestone source site could be imported to the Site if the material meets the required Permit limits and that the NYSDEC review would continue once involved staff was available to complete the review. On April 3, 2013, the IEM forwarded the NYSDEC correspondence regarding previous NYSDEC work plan acceptance for the proposed source site, which was for work occurring as part of a separate project under NYSDEC review.

On April 3, 2013, the NYSDEC confirmed that the Waterpointe-Whitestone source site was not approved as a potential source for shaping layer material.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.25 Don Carlo Environmental/Brooklyn (1247 38th Street, Brooklyn, NY)

On February 1, 2013, the IEM notified NYCDPR that an initial review of the lab data provided for the Don Carlo Environmental/Brooklyn source site was completed. Sampling was not witnessed by the IEM. The results in the submitted report exceeded the levels in the Site Permit for shaping layer material for the

VOC's ethylbenzene (6.9 ppm vs. 5.5 ppm), toluene (2.1 ppm vs. 1.5 ppm), and xylenes (57 ppm vs. 1.2 ppm). There were a significant number of parameters that were not analyzed.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.26 Castle Hill Recycling (1000 Zerega Avenue, Bronx, NY)

On February 11, 2013, NYCDPR provided the IEM with a permit for Castle Hill Recycling (DEC Registration #03-W-94) that was being considered as a potential shaping layer material source site. The IEM was notified that the source site was creating a 2,000 cubic yard stockpile for sampling. Castle Hill Recycling was a NYSDEC registered solid waste management facility.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.27 Springfield Gardens

On February 21, 2013, the IEM completed an initial review of a soil analysis summary documentation (no lab reports) for approximately 2,500 cubic yards of potential shaping layer material at the Springfield Gardens source site as provided by NYCDPR. The IEM did not witness sample collection. The IEM notified NYCDPR that there were several parameters exceeding the Site Permit criteria and multiple required parameters were not analyzed.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.28 Calvert Vaux (Brooklyn, NY)

On February 20, 2013, NYCDPR provided the IEM and NYSDEC with lab data for the Calvert Vaux source site for approximately 500 cubic yards of shaping layer material. On February 22, 2013, the IEM was notified by the NYSDEC that the NYSDEC would be handling the review of this source site.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.29 160 Myrtle Avenue (Brooklyn, NY)

On February 20, 2013, NYCDPR forwarded the IEM initial sample data information for a potential shaping layer material source site located at 160 Myrtle Avenue, Brooklyn, NY. The potential shaping layer materials totaled approximately 40,000 cubic yards. On February 21, 2013, the IEM notified NYCDPR that the initial review of the soil analysis summary documentation (no lab reports) was completed for the information provided to the IEM. The reviewed material had exceedances for lead and mercury relative to the Site Permit criteria.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.30 215 E. 68th Street (New York, NY)

On March 7, 2013, NYCDPR requested that the IEM review initial lab data for approximately 3,000 to 4,000 cubic yards of potential shaping material at 215 E. 68th Street, New York, NY. On March 8, 2013, the IEM notified NYCDPR that there were exceedances for Mercury and total cSVOC's for multiple samples and multiple VOC, SVOC, Pesticide, and TCLP VOC parameters were missing in all samples.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.31 DEP Valhalla (10 Walker Road, Valhalla, NY)

On February 25, 2013, the IEM initiated review of potential shaping material at the DEP Valhalla source site (Catskill and Delaware Water Treatment Facility). On March 1, 2013, the IEM notified the NYSDEC that a review of the initial lab results and site background information was completed. The initial review indicated that there were no exceedances relative to shaping layer material criteria for the hardcopy data, some sample parameters were missing, and there were no records indicating unacceptable background conditions. The IEM notified the NYSDEC that there was a discrepancy in the hardcopy and electronic data and clarification was requested from NYCDPR/NYCDEP. On March 5, 2013, the IEM completed a visual and physical inspection of the potential shaping layer material at the source site. On March 6, 2013, the IEM notified NYCDPR and the NYSDEC that the potential shaping layer material passed all visual and physical inspection requirements and the material passed the Site Permit criteria for shaping layer material (hardcopy data) although not all parameters were tested. In addition, the data provided electronically on CD contained information demonstrating that previous soil investigations identified soil containing elevated levels of lead and mercury that did not pass the Site Permit criteria for shaping layer material. It was communicated to the IEM verbally that the NYCDEP has been handling all impacted soil separate from the stockpiled material that was inspected, and that all impacted soil has been disposed of off-site and tracked accordingly.

On March 13, 2013, the IEM received requested documentation from the source site owner/operator regarding conditions of the existing soil stockpile and removal of contaminated materials at the DEP Valhalla source site. On March 14, 2013, the IEM notified NYCDPR that the IEM must be notified prior to importation of shaping layer material from the DEP Valhalla source site in order to witness initial loading of trucks at the source site.

Approximately 6,631.2 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.32 Tilcon (Bronx) (980 East 149th Street, Bronx, NY)

On April 1, 2013, the IEM received initial lab data and a NYSDEC Registration Form for a Solid Waste Management Facility (NYSDEC Registration #03W39R) for the Tilcon (Bronx) source site. On April 1, 2013, the NYSDEC confirmed that the Tilcon (Bronx) source site had a valid Registration Form for a Solid Waste Management Facility. On April 2, 2013, the IEM notified NYCDPR that a review of the initial lab data was completed and noted that sampled parameters did not exceed Site Permit criteria for shaping layer

material (samples WCA-1 to WCA-6), however the following parameters were not analyzed: TCLP Metals missing for sample WCA-3, WCA-5, and WCA-6, VOC: 1,2,4-trichlorobenzene, methyl ethyl ketone, and tetrachloroethylene in all samples, SVOC: 4-chloro-3-methylphenol, 2-chlorophenol, 4-methylphenol, and naphthalene in all samples, and Pesticides: 2,4 D, dibenzo-p-dioxins, endrin ketone, gamma-bhc, gamma-chlordane, mitotane (2,4 DDD), and parathion. On April 3, 2013, the IEM witnessed sampling of approximately 4,000 cubic yards of the proposed shaping material at the Tilcon (Bronx) source site.

On April 9, 2013, the IEM notified NYCDPR that the Tilcon (Bronx) shaping layer material, totaling approximately 4,000 cubic yards, witnessed by the IEM on April 3, 2013, was acceptable for import to the Site due to the fact that environmental results met the Site Permit requirements. The IEM conducted a visual inspection of material, and the IEM confirmed that the material did not contain unauthorized materials (i.e. asphalt, C&D debris, etc.).

Approximately 3,041.8 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.33 NY Recycling (475 Exterior Street, Bronx, NY)

On April 23, 2013, NYCDPR requested that the IEM initiate review of a potential shaping layer material source site named New York Recycling. On April 24, 2013, the IEM verified that the facility's NYSDEC registration was valid and that the submitted analytical results did not reveal any exceedances relative to the Site shaping layer material Permit requirements; however, several parameters were missing including TCLP metals, TCLP VOCs, and four pesticide parameters. NYCDPR was notified that in order to proceed with this potential source site, the IEM will need to complete a site visit to the facility for visual and physical inspection of the material, and witness collection of samples for chemical testing. In addition, NYCDPR would be required to collect a sample of the fines for submittal to the NYSDEC for review. On April 25, 2013, NYCDPR requested that the IEM take a grab sample of the material fines and provide that sample to the NYSDEC as required. On April 30, 2013, the IEM performed a visual, physical, and PID inspection of the material and collected a sample of fines using a No. 35 sieve. The sample was delivered to the NYSDEC on April 30, 2013.

On Friday, May 24, 2013, the IEM notified NYCDPR that Stockpile #1 of NY Recycling shaping layer material (approximately 8,000 CY) was acceptable for import to the Site due to the fact that the source site qualified as a valid NYSDEC registered C&D processing facility, the IEM conducted a visual/physical inspection of the stockpile on April 30, 2013, the IEM confirmed that the stockpiled material did not contain unauthorized materials (i.e. asphalt, C&D debris, etc.), all PID readings measured 0 ppm, and the environmental results were acceptable per the Site Permit requirements for IEM witnessed sampling completed on May 21, 2013. In addition, a sample of fines was collected by the IEM and submitted to NYSDEC for visual review, and subsequent approval. Approved shaping material to be trucked to the Site could only originate from the stockpile witnessed during the May 21, 2013 sampling event.

On June 19, 2013, the IEM notified NYCDPR that Stockpile #2 of NY Recycling shaping layer material (approximately 10,000 cubic yards) as witnessed by the IEM on June 11, 2013, was acceptable for import

to the Site. The IEM conducted a visual/physical inspection of stockpile #2 on June 11, 2013, and the IEM confirmed that the stockpiled material did not contain unauthorized materials (i.e. asphalt, C&D debris, etc.). The site qualified as a valid NYSDEC registered C&D processing facility and the test results were acceptable per the Site Permit requirements. Approved shaping material to be trucked to the Site could only originate from the stockpile witnessed during the June 11, 2013 sampling event.

On July 16, 2013, the IEM notified NYCDPR that the latest stockpile of shaping layer material (approximately 5,000 cubic yards) from the NY Recycling source site was acceptable for import to the Site. The submitted lab report met all Permit chemical requirements for sample collection witnessed by the IEM on July 11, 2013 and met Permit visual and physical criteria as per inspection by the IEM.

On August 1, 2013, the IEM notified NYCDPR that the latest stockpile of shaping layer material (approximately 5,000 cubic yards) from the NY Recycling source site was acceptable for import to the Site. The submitted lab report met all Permit chemical requirements for sample collection witnessed by the IEM on July 29, 2013 and met Permit visual and physical criteria as per inspection by the IEM.

On October 24, 2013, the IEM notified NYCDPR that the latest 5,000 cubic yard stockpile of NY Recycling shaping layer material as represented by the submitted TAGM lab report and per samples witnessed by the IEM on October 11, 2013, was acceptable for import to the Site. The approval was based on the fact that the source site qualified as a valid NYSDEC registered C&D processing facility and the IEM conducted a visual/physical inspection of the stockpile on October 11, 2013. The IEM confirmed that the stockpiled material did not contain unauthorized materials (i.e. asphalt, C&D debris, etc.), and all PID readings registered in at 0 ppm. The test results were acceptable per the Site Permit requirements. Approved shaping material to be trucked to the Site could only originate from the stockpile witnessed during the October 11, 2013 sampling event.

Approximately 26,688.05 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.34 Little Bay (Queens, NY)

On October 16, 2013, the IEM notified NYCDPR of the findings associated with a preliminary review of available data for the Little Bay source site. The IEM reviewed lab data for Stockpiles 1 through 9 (S-1 through S-9). The lab report did not capture all of the parameters required for testing by the Site Permit, and was missing the full TCLP VOC and TCLP Metals analyses, as well as several SVOC, VOC, Pesticide/Herbicide, and PCB parameters. Based on the data presented, at a minimum, the following stockpiles did not pass the Site Permit criteria as shaping layer material: S-1 exceeded for copper, lead, mercury, and total PCBs; S-4 exceeded for mercury; S-5 exceeded for lead and mercury; and S-9 exceeded for mercury and total PCBs.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.2 Cover Layer Material

Materials accepted for use as cover layer on the Site were sampled prior to acceptance and after each additional 2,000 cubic yards. As per the 2005 Permit modification, the parameters for cover layer material included the complete analyte list of TAGM 4046 for total VOCs, total SVOCs, total pesticides and herbicides, total PCBs, total metals, sulfur, and asbestos.

Fill material imported to the Site and used for the cover layer was subject to the following requirements, per Special Condition 14 of the 2014 Permit and Section 4.2.1.2 of the 2013 Engineering Report. A table of the cover layer material chemical acceptance criteria listed below is included in Appendix C.2 of the 2013 Engineering Report.

In order for topsoil material to be used on the Site for the cover layer, it was sampled prior to acceptance and after the importation of each additional 2,000 cubic yards (in truck volumes). Each soil sample was analyzed for the entire analyte list in the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046, total volatile organic compounds (VOCs), total semi-volatile organic compounds (SVOCs), pesticides and herbicides, polychlorinated biphenyls (PCBs), and metals (including Resource Conservation and Recovery Act (RCRA) metals).

Based on source site reviews and site testing activities, the cover layer material imported to the Site met the following chemical limits:

TAGM 4046 Table 1 – Volatile Organic Compounds (VOCs)

TAGM 4046 Table 2 – Semi-Volatile Organic Compounds (SVOCs)

TAGM 4046 Table 3 – Pesticides/Herbicides and Polychlorinated Biphenyls (PCBs)

TAGM 4046 Table 4 – Metals

Total Asbestos 0.5% or less

Total Sulfur 0.5% or less

The following additional criteria were directed in NYSDEC correspondence:

April 30, 2009 – Directed NYCDPR not to accept or place on the Site any cover layer materials with arsenic concentrations greater than 16 ppm or lead concentrations greater than 400 ppm.

July 28, 2009 – Provided a table to NYCDPR listing modified heavy metal chemical limits for the cover layer at the Site.

September 25, 2009 – Revised and clarified the chromium chemical limits for the cover layer previously presented in the July 28, 2009 letter.

NYCDPR followed the NYSDEC's directives since receipt of each one associated with the importation of cover layer material to the Site.

Details of the source site reviews and site testing for each potential cover layer material source site are as follows.

3.1.2.1 Bloomingburg (C.M. & Sons Trucking Site, 680 Bloomingburg Road, Bloomingburg, NY)

NYCDPR requested that the IEM witness fill material sampling for this potential source site on May 9, 2011. The Site is a sand and gravel supply yard. Material was separated into sand and gravel of various sizes and stockpiled. The source site had been importing sand and gravel material from a nearby real estate development under construction. Material being considered for the Site included two stockpiles (SP-1 and SP-2) of a brown, medium to coarse sand. Both stockpiles were from material generated on-site. Each stockpile was approximately 25,000 cubic yards. Prior to sample collection the piles were screened in various locations using a calibrated PID. No detections of VOCs were observed. The material was inspected using a 3/4-inch screen. No prohibited materials were observed in the screened material. The IEM witnessed a total of six samples collected from two separate stockpiles. Per the AES sampling plan, three samples were collected from each stockpile. Each sample consisted of 20 grabs (depths ranging from the surface to three feet into the pile) which were composited. One discrete grab per sample was collected specifically for VOC analysis without being composited.

NYCDPR provided the IEM authorization to commence review of this source site on May 24, 2011. NYCDPR requested this source site review be put on hold on May 27, 2011. It was requested by NYCDPR that the IEM witness sampling for physical parameters on June 1, 2011. NYCDPR provided authorization to the IEM to order the EDR on NYCDPR's behalf on June 8, 2011.

On June 24, 2011, the IEM emailed the final source site review updates to NYCDPR which identified that Sample #2 for SP-1 failed to meet the cover layer material Permit requirements due to an Antimony exceedance. NYCDPR requested that the source site review be put on hold on June 24, 2011. On June 30, 2011, NYCDPR requested that the IEM resume the source site review. The IEM notified NYCDPR that the review was completed on June 24, 2011 and forwarded the original June 24, 2011 review findings/comments to NYCDPR. On July 1, 2011, NYCDPR requested that the IEM provide the EDR files to NYCDPR which were ordered for the site in June. The IEM resubmitted the EDR files to NYCDPR.

On July 8, 2011, NYCDPR submitted a preliminary review of the EDR to the IEM via email. The IEM provided comments to NYCDPR via email. On July 11, 2011, NYCDPR submitted a preliminary site review submittal via email and the IEM provided comments to NYCDPR via email. On July 12, 2011, NYCDPR submitted the site review submittal to the NYSDEC and the IEM via email. On July 12, 2011, the NYSDEC requested that the IEM provide preliminary comments of NYCDPR's submittal and the IEM provided comments to the

NYSDEC via email. On July 15, 2011, the NYSDEC provided comments to the IEM and a request for clarification on NYCDPR's submittal.

The IEM provided NYCDPR a review status update with respect to this source site via phone and email on July 20, 2011. The update contained action items required for NYCDPR to advance the review process. The IEM provided the NYSDEC with an update on the status of NYCDPR submittals for this source site on July 22, 2011 via email. NYCDPR provided the cover layer material permeability testing results to the IEM on July 22, 2011. The IEM consulted with the NYSDEC beginning on July 22, 2011 regarding the permeability results and the IEM notified NYCDPR on July 28, 2011 that the cover soil permeability rate of 1.51 X 10-2 cm/s (21.4 in/hr.) did not meet the NYSDEC maximum allowable permeability of 1 x 10-2 cm/s (14.7 in/hr.). The IEM also requested clarification on NYCDPR's intent on handling the SP-1 Antimony exceedance as identified in lab reports.

NYCDPR requested the analytical lab data from the IEM on August 8, 2011 and indicated that they would be submitting a final proposal to the NYSDEC regarding the request to import cover material from the Bloomingburg source site by addressing outstanding metals and permeability requirements. The IEM forwarded requested lab data to NYCDPR via email on August 8, 2011.

IEM staff visited the Bloomingburg source site to inspect the cover layer material on October 6, 2011 and the existing material appeared to be the same material that the IEM inspected originally in May 2011 with the exception that SP-1 had been removed off-site and was no longer available. The results of the site visit were consistent with what the IEM was told by the site operator earlier on October 6, 2011. The IEM confirmed that the GPS coordinates of the stockpile (SP-2) were consistent with the original location, the soil appeared to be the same color and consistency, and the stockpile had vegetation growing on it, indicative that it had been untouched for an extended period. The IEM witnessed the loading of one truck on October 6, 2011 headed to the Site, which was carrying approximately 26 cubic yards of cover layer material. IEM staff was on-site at Bloomingburg on October 7, 2011 to witness the initial rounds of cover layer material loading.

In general, the NYSDEC allowed up to 16,000 cubic yards of approved cover material (from all cover material source sites) to be stockpiled in the rough of holes 4 and 5 (8,000 cubic yards per hole) prior to satisfying the conditions associated with spreading the cover material on the Site. These conditions included meeting permeability and shaping layer thickness requirements. On October 21, 2011, the NYSDEC provided NYCDPR with a conditional approval to allow NYCDPR to import cover layer material with a permeability of up to 30 inches per hour pending NYCDPR submitting for approval of an amendment to the Stormwater Pollution Prevention Plan (SWPPP). With this permeability approval, NYCDPR was notified that they could spread cover material on-site at their own risk pending shaping layer thickness compliance which occurred at a later time.

Approximately 4,768.0 cubic yards of cover layer material were imported to the Site from this source site.

3.1.2.2 Ranco Sand (115 South Street, Manorville, NY) [LAWS]

On December 2, 2011, the IEM was directed by NYCDPR to order the EDR for the Ranco Sand source site located in Manorville, NY. The IEM visited the Ranco Sand source site on December 8, 2011 to inspect a stockpile of approximately 10,000 to 12,000 cubic yards of proposed cover soil. The soil was inspected and visually appeared to be 100% sand, free of any debris. The material appeared to be native as it was mined from a NYSDEC permitted facility, extending approximately 100 feet below original grade. The stockpile of sand that was inspected was mined from below the water table.

The IEM witnessed the collection of six composite soil samples and six discrete VOC samples, as well as a physical sample to be analyzed for permeability. The IEM logged the location of the perimeter of the stockpile via GPS. The source site owner and NYCDPR were made aware that the stockpile must remain untouched in order for the material to be considered for approval.

NYCDPR/LAWS submitted a copy of a previous NYSDEC mining permit containing the source site's previous permit number (1-4722-00218/00001). LAWS was informed by the source site representative that the source site is operating under a NYSDEC authorized permit extension.

The EDR was ordered on December 9, 2011. The IEM performed a review of the EDR and provided observations and a list of RECs to the NYSDEC. The IEM received the lab data (from the December 8, 2011 sample event) from LAWS on December 19, 2011. The IEM completed review of the lab data on December 19, 2011 and found that the material met the Site Permit criteria for cover layer soil. The IEM reviewed the NYCDPR submittal associated with the EDR for the source site. Based on review of the NYCDPR EDR review memo, site visits, inspections, and data review, the IEM did not have any objections associated with proceeding with this source site. Prior to receiving approval for importation of this cover material to the Site, the NYSDEC needed to receive and review the permeability testing data.

On January 4, 2012, the IEM forwarded the NYSDEC the permeability data for review. On January 9, 2012, the NYSDEC identified that this source site was conditionally approved as a source for cover material based on samples meeting the approved permeability specification at a frequency of one sample per five hundred cubic yards for the initial 2,000 cubic yards (analysis for permeability only). Thereafter, sampling for permeability would be performed at a frequency of one sample per 2,000 cubic yards if the permeability results for the initial 2,000 cubic yards were satisfactory. This conditional approval was based upon information provided by NYCDPR in its January 5, 2012 email and the IEM's January 4, 2012 email to the NYSDEC. Additional permeability sampling witnessed by the IEM was required since only one IEM witnessed sample has occurred (i.e. January 2, 2012). The IEM witnessed permeability testing at the source site on January 10, 2012.

NYCDPR transmitted additional percolation testing results to the NYSDEC on January 26, 2012. The results were for IEM witnessed sampling completed on January 10, 2012 and January 23, 2012. On January 26, 2012, the NYSDEC provided NYCDPR with approval to use the average of twenty permeability test results as representative of the 12,000 cubic yards of stockpiled cover layer material at the source site. This

approval was based on the fact that loading, transporting, stockpiling, and spreading of the material would result in thorough mixing. The initial 12,000 cubic yards were approved for import to the Site.

On February 1, 2012, IEM staff was on-site to observe loading and transportation of cover layer materials from the approved stockpile and completion of trucking manifests. On February 7, 2012, IEM staff notified NYCDPR and NYSDEC that the IEM had reviewed the environmental sample data for the second round of environmental sampling completed on January 30, 2012 for cover soil (i.e. eight composite samples from an approximately 15,000 cubic yard stockpile). Per the results in the lab report transmitted to the IEM, the IEM verified that the material complied with the Site permit criteria for cover layer material. On February 9, 2012, the IEM reviewed the infiltration rate test results for the second stockpile of cover layer material, and all of the sample results met the Site Permit criteria (i.e. less than 29.4 in/hr.). Based on a review of the submitted environmental data and the infiltration testing data, the second stockpile (up to 16,000 cubic yards) was approved for import to the Site since it met all of the Site Permit criteria.

The IEM was on-site at the Ranco Sand source site on February 22, 2012 to witness sampling of a new stockpile of potential cover layer material (stockpile #3). The IEM witnessed the collection of five samples from the stockpile consisting of approximately 10,000 cubic yards of potential cover layer material.

The IEM reviewed the environmental sampling results from the February 22, 2012 sampling event for this source site and found that the sample results fell below the Site Permit limits. The IEM reviewed the percolation test results and found that the percolation rates for stockpile #3 exceeded the established threshold of 29.4 inches/hour. The IEM required a proposal from NYCDPR on an acceptable approach to remedy the percolation rate exceedance.

On March 15, 2012, the NYSDEC notified the IEM that the environmental testing (TAGM) frequency for this source site had been reduced from one sample per 2,000 cubic yards to one sample per 10,000 cubic yards of cover layer material. The percolation testing frequency remained unchanged at one sample per 2,000 cubic yards.

On March 15, 2012, the NYSDEC found NYCDPR's proposed truck loading and mixing protocol acceptable to address elevated percolation rates for the stockpile #3 materials. On March 19, 2012, the IEM informed NYCDPR that stockpile #3 at the Ranco Sand source site had been approved for import as cover layer material based upon the acceptable environmental testing results and the percolation results in conjunction with the required mixing and truck loading protocol. The IEM witnessed the appropriate truck loading protocol of the first round of trucks at the source site on March 16, 2012. Trucks were loaded in an alternating pattern from both stockpile #2 and stockpile #3.

The IEM witnessed source site sampling at this source site on March 30, 2012. The IEM received a lab report on April 5, 2012 containing infiltration testing data for ten samples collected from stockpile #4. The IEM reviewed the infiltration testing data and confirmed that the results met the permeability requirement for cover soil.

The IEM received the environmental (TAGM) lab report on April 6, 2012 for the samples collected for stockpile #4 on March 30, 2012. On April 9, 2012, the IEM confirmed that sample results for stockpile #4 did not exceed any of the Permit criteria for cover material and the material was acceptable for import to the Site.

The IEM received the environmental (TAGM) lab report on May 9, 2012 for the samples collected for stockpile #5 on April 30, 2012. On May 10, 2012, the IEM confirmed that sample results for stockpile #5 did not exceed any of the Permit criteria for cover material and the material was acceptable for import to the Site. The IEM reviewed the infiltration testing data on May 17, 2012 and confirmed that the results met the permeability requirement for cover soil.

The IEM approved Ranco stockpile #5 on May 17, 2012, as the environmental testing results did not exceed any of the Permit criteria for cover layer material. The 20,000 cubic stockpile from Ranco that was tested and witnessed by the IEM met the Site Permit criteria and was acceptable for import to the Site. Infiltration testing was also approved by the IEM. The NYSDEC lowered the frequency of infiltration testing to one infiltration sample per 10,000 cubic yards for this source site on May 11, 2012. Through May 17, 2012, this source site was approved to export 78,000 cubic yards of cover material to the Site.

The IEM was on-site at this source site on June 8, 2012 to witness the collection of samples from stockpile #6. Two samples were collected for environmental and infiltration analysis for the approximate 20,000 cubic yard stockpile. The IEM received infiltration testing data on June 14, 2012. Infiltration test results were reviewed and approved on June 19, 2012. The IEM received environmental testing lab results on June 18, 2012. The environmental testing lab results were reviewed and approved on June 19, 2012. Stockpile #6 (20,000 CY) did not exceed any of the Site Permit criteria for cover layer material and infiltration requirements and was therefore acceptable for import to the Site.

The IEM was on-site at this source site on July 17, 2012 to witness sampling of stockpile #7 consisting of 10,000 cubic yards of cover layer material. On July 26, 2012, the IEM notified NYCDPR and LAWS that the material from stockpile #7 was acceptable for import to the Site based on the fact that the submitted environmental and infiltration lab reports met the Site Permit requirements.

The IEM reviewed the infiltration and environmental lab reports for stockpile #8 of cover layer material (10,000 cubic yards) sampled on August 14, 2012. The IEM notified NYCDPR on August 22, 2012 that the material was approved for import to the Site as both infiltration and environmental results were acceptable per the Site permit requirements.

On September 17, 2012, the IEM notified NYCDPR that the 10,000 cubic yard stockpile #9 of cover layer material sampled at this source site on September 7, 2012 was acceptable for import to the Site as both environmental and infiltration lab results met the Site Permit requirements.

On October 1, 2012, the IEM notified NYCDPR that the 10,000 cubic yard stockpile #10 of cover layer material sampled at this source site on September 21, 2012 was acceptable for import to the Site as both environmental and infiltration lab results met the Site Permit requirements.

On November 7, 2012, the IEM notified NYCDPR that the 10,000 cubic yard stockpile #11 of cover layer material sampled at this source site on October 17, 2012 was acceptable for import to the Site as both environmental and infiltration lab results met the Site Permit requirements.

On December 10, 2012, the IEM notified NYCDPR that the 10,000 cubic yard stockpile #12 of cover layer material sampled at this source site on November 16, 2012 was acceptable for import to the Site as both environmental and infiltration lab results met the Site Permit requirements.

IEM staff was on-site February 1, 2013 at this source site to perform the visual inspection and witness sampling of the cover soil for environmental and infiltration testing associated with stockpile #13 (10,000 cubic yards). The IEM witnessed collection of one environmental sample and one infiltration sample.

On February 19, 2013, the IEM notified NYCDPR that the latest round of cover layer material for this source site was acceptable for import to the Site based on the fact that both the environmental and infiltration results met the Site Permit requirements. The results were for sampling witnessed by the IEM on February 1, 2013 for stockpile #13.

The IEM witnessed sample collection for stockpiles #14 and #15 totaling 20,000 cubic yards worth of proposed cover layer material at this source site on March 19, 2013. Based on review of submitted lab results, the proposed cover layer material was approved for import to the Site as both infiltration and environmental results were acceptable per the Site Permit requirements.

On June 3, 2013, the IEM notified NYCDPR that the latest round of cover layer material for stockpiles #16 and #17 totaling approximately 20,000 cubic yards were acceptable for import to the Site as both infiltration and environmental results met the Site Permit requirements. Submitted infiltration and environmental lab reports were for sampling witnessed by the IEM on May 22, 2013.

On August 5, 2013, the IEM notified NYCDPR that the latest round of cover layer material for stockpile #18 (approximately 10,000 cubic yards) was acceptable for import to the Site. The submitted infiltration and environmental lab reports for sampling witnessed by the IEM on July 26, 2013 met the Site Permit requirements.

On August 29, 2013, the IEM notified NYCDPR that the latest stockpile of cover layer material for stockpile #19 (approximately 10,000 cubic yards), as represented by submitted infiltration and environmental lab reports, was acceptable for import to the Site. Both infiltration and environmental results met the Site Permit requirements for sampling witnessed by the IEM on August 21, 2013.

On September 13, 2013, the IEM notified NYCDPR that the latest stockpile of cover layer material for stockpile #20 (approximately 10,000 cubic yards), as represented by submitted infiltration and environmental lab reports, was acceptable for import to the Site. Both infiltration and environmental results met the Site Permit requirements for sampling witnessed by the IEM on September 6, 2013.

On October 3, 2013, the IEM notified NYCDPR that the latest stockpile of cover layer material for stockpile #21 (approximately 10,000 cubic yards), as represented by submitted infiltration and environmental lab reports, was acceptable for import to the Site. Both infiltration and environmental results met the Site Permit requirements for sampling witnessed by the IEM on September 25, 2013.

On October 28, 2013, the IEM notified NYCDPR that the latest stockpile of cover layer material for stockpile #22 (approximately 10,000 cubic yards), as represented by submitted infiltration and environmental lab reports, was acceptable for import to the Site. Both infiltration and environmental results met the Site Permit requirements for sampling witnessed by the IEM on October 16, 2013.

On November 8, 2013, the IEM notified NYCDPR that the latest cover layer material stockpile #23 (approximately 10,000 cubic yards), as represented by submitted infiltration and environmental lab reports, was acceptable for import to the Site. Both infiltration and environmental results met the Site Permit requirements for sampling witnessed by the IEM on October 25, 2013.

On November 18, 2013, the IEM notified NYCDPR that the latest cover layer material stockpile #24 (approximately 10,000 cubic yards), as represented by submitted infiltration and environmental lab reports, was acceptable for import to the Site. Both infiltration and environmental results met the Site Permit requirements for sampling witnessed by the IEM on November 8, 2013.

On March 14, 2014, the IEM notified LAWS and NYCDPR that the cover layer material stockpile #24, originally sampled and witnessed on November 8, 2013 was acceptable for importation. On March 14, 2014, the IEM completed a site visit and performed a visual inspection of the existing stockpile on-site.

3.1.2.2.1 Ranco Sand (115 South Street, Manorville, NY) [MFM]

On July 10, 2012, the IEM received lab results for a 10,000 cubic yard stockpile of cover layer material sampled at the Ranco Sand source site on July 2, 2012 for MFM. On July 11, 2012, the IEM confirmed that the environmental lab testing results did not exceed any of the Site Permit criteria for cover layer material environmental analyses however the stockpile could not be approved for import as infiltration test results were not reviewed and approved.

The NYSDEC approved the infiltration test results on August 21, 2012 for stockpiled cover layer material (10,000 cubic yards) sampled on July 2, 2012. Based on the NYSDEC approval of the infiltration results, the IEM notified NYCDPR on August 22, 2012 that the stockpiled material was approved for import to the Site as both infiltration and environmental results were acceptable per the Site Permit requirements.

3.1.2.2.2 Ranco Sand (115 South Street, Manorville, NY) [Triton]

On June 6, 2013, the IEM notified NYCDPR that the revised environmental lab report for a 5,000 cubic yard stockpile met the Site Permit requirements for IEM witnessed sampling completed on May 31, 2013. On June 7, 2013, the IEM notified NYCDPR that the infiltration testing results did not meet the Site Permit requirements.

On June 24, 2013, the IEM notified NYCDPR that the additional infiltration tests analyzed for a 5,000 cubic yard stockpile did not meet the Site Permit requirements for IEM witnessed sampling completed on May 31, 2013 and it was not approved for import to the Site. On June 24, 2013, NYCDPR notified the IEM that this material would not be sampled any further.

Approximately 271,801.2 cubic yards of cover layer material were imported to the Site from this source site based on approved materials noted above in Sections 3.1.2.2 and 3.1.2.2.1.

3.1.2.3 East Coast Mines (Lewis Road near Route 104, East Quogue, NY)

Between August 10 and August 12, 2011, NYCDPR and the IEM coordinated a site visit to the East Coast Mines source site (DEC Facility ID: 1-4736-00539), and discussed review requirements. The EDR was ordered by the IEM on August 12, 2011, and the initial EDR files were forwarded to NYCDPR.

The IEM visited the source site on August 17, 2011 to inspect two stockpiles each consisting of approximately 2,000 cubic yards of soil. The soil was inspected and visually appeared to be sand, free of any debris. The material appeared to be native as it was mined from roughly 80-100 feet below original grade. The stockpiles were inspected with a PID, which yielded no detections. The IEM witnessed the collection of a composite and discrete VOC sample from each stockpile, as well as a physical sample to be analyzed for permeability.

The IEM visited the site again on September 29, 2011 to inspect a separate stockpile of proposed cover layer material of approximately 2,000 cubic yards of soil. The soil was inspected and visually appeared to be sand and free of any debris. The material appeared to be native as it was mined from roughly 80-100 feet below original grade. The IEM witnessed the collection of a composite and discrete VOC sample from the stockpile, as well as a physical sample to be analyzed for permeability. The IEM logged the location of the perimeter of the stockpile via GPS. The source site owner and NYCDPR were aware that the stockpiles must remain untouched in order for them to be considered for approval. NYCDPR performed a review of the EDR. The IEM performed a review of NYCDPR's review submittal, as well as a review of the EDR. No RECs were identified. NYCDPR submitted the facility's NYSDEC mining permit to the IEM.

On October 11, 2011, the NYSDEC identified that they had reviewed the initial analytical data for the East Coast Mines source site and authorized the importation of two stockpiles of cover material totaling approximately 3,500 cubic yards. This approval was associated with cover material that was sampled on August 17, 2011. This material was approved for only stockpiling on-site, and had not been approved for spreading on-site. Cover material was stockpiled in the rough of holes 4 and 5 pending NYSDEC approval for spreading. The NYSDEC had not reviewed the September 29, 2011 analytical data resulting in a

maximum allowable import volume from this source site of 3,500 cubic yards. In general, the NYSDEC allowed up to 16,000 cubic yards of approved cover material (from all cover material source sites) to be stockpiled in the rough of holes 4 and 5 (8,000 cubic yards per hole) prior to satisfying the conditions associated with spreading the cover material on-site. These conditions included meeting permeability and shaping layer thickness requirements. On October 21, 2011, the NYSDEC provided NYCDPR with a conditional approval to allow NYCDPR to import cover layer material with a permeability of up to 30 inches per hour pending NYCDPR submitting for approval of an amendment to the Stormwater Pollution Prevention Plan (SWPPP). With this permeability approval, NYCDPR was notified that they could spread cover material on-site at their own risk pending shaping layer thickness compliance.

On April 18, 2012, NYCDPR requested that the IEM witness source site sampling for two 2,000 cubic yard stockpiles at this source site.

The IEM witnessed source site sampling at this source site on April 23, 2012. Four samples were collected for environmental testing and four samples were collected for agronomic testing. The IEM reviewed the environmental and infiltration testing data and confirmed that the environmental results met the Site Permit requirements for cover layer material and three of four stockpiles met the NYSDEC permeability requirements. The stockpile SP2 infiltration rate exceeded the Permit limit. Material from SP2 was not acceptable for import to the Site.

The East Coast Mines stockpiled material sampled on April 23, 2012 was formally approved by the NYSDEC on May 15, 2012. Although the environmental results passed the Site Permit criteria, one of the four stockpiles (each stockpile was 2,000 cubic yards) did not meet the Site Permit infiltration criteria. However, the NYSDEC, after a review of a NYCDPR submittal request, granted approval of the four stockpiles by allowing averaging of the four stockpile infiltration results; the average of the four stockpiles met the Site Permit criteria.

The IEM forwarded the Site environmental testing criteria per the Permit for cover layer material to the lab on July 2, 2012. On July 4, 2012, the IEM notified NYCDPR, the lab, and the source site contact of parameters that had to be re-analyzed or re-reported to coincide with the required Permit limits for potential cover layer material sampled on June 22, 2012. On July 5, 2012, the IEM reviewed the revised lab report for material sampled on June 22, 2012 and determined that the material (6,000 cubic yards) was acceptable for import to the Site. On July 10, 2012, the IEM received a lab report associated with a 10,000 cubic yard stockpile sampled on July 2, 2012. On July 10, 2012, the material was found to be acceptable for import to the Site based upon review of the submitted lab report and NYSDEC review and approval of the infiltration testing results. The NYSDEC approved the infiltration results based on the condition that the stockpiled materials were mixed at the source site prior to import to the Site.

The NYSDEC notified NYCDPR on July 18, 2012 that the proposed 1:3 ratio of mixing for cover layer material stockpiles #1, #3, and #6 at East Coast Mines source site was acceptable and subject to verification by the IEM. The IEM notified NYCDPR and the source site operator on July 18, 2012 that the submitted lab report was missing the analysis of dibenzofuran. NYCDPR and the source site operator

submitted revised lab reports on July 18, 2012. The IEM notified NYCDPR and the source site operator that the two separate stockpiles of material (8,000 cubic yards each) sampled at the East Coast Mines source site on July 11, 2012 were conditionally acceptable for import based upon proper mixing of the stockpiles. The IEM was on-site at the East Coast Mines source site to witness sampling of a new 10,000 cubic yard stockpile and the mixing of the cover soil stockpiles on July 23, 2012. The IEM notified NYCDPR and the source site operator that the sampled materials were acceptable for import to the Site on July 24, 2012.

The IEM was on-site at the East Coast Mines source site on July 31, 2012 to witness mixing of cover layer material stockpiles. On August 6, 2012, the IEM notified NYCDPR that the cover layer materials sampled on July 23, 2012 at the East Coast Mines source site, totaling 14,000 cubic yards, were acceptable for import to the Site based on review of submitted environmental and infiltration lab reports.

On August 20, 2012, the IEM notified NYCDPR that the 8,000 cubic yard stockpile of cover layer material sampled on July 31, 2012 was approved for import to the Site. The approval was based on the submitted environmental results meeting the Site Permit requirements, approval from the NYSDEC to mix and average the infiltration test results, and the mixing of the stockpiled material at the source site which was witnessed by the IEM on August 14, 2012.

On August 30, 2012, the IEM notified NYCDPR that the 12,000 cubic yards of cover layer material sampled on August 14, 2012 was approved for import to the Site. The approval was based on the submitted environmental results meeting the Site Permit requirements, approval from the NYSDEC to mix and average the infiltration test results (August 23, 2012 email), and the mixing of the stockpiled material at the source site which was witnessed by the IEM on September 4, 2012.

On September 12, 2012, the IEM notified NYCDPR that a portion of the 14,000 cubic yards of cover layer material sampled on September 4, 2012 was approved for import to the Site. Stockpile SW consisting of 6,000 cubic yards of cover layer material was approved based on the submitted environmental results meeting the Site Permit requirements and acceptable infiltration results. Stockpile DSS consisting of 8,000 cubic yards had acceptable environmental results meeting the Site Permit requirements but was not approved due to infiltration results not meeting the Permit requirements. On September 14, 2012, the IEM notified NYCDPR that Stockpile DSS consisting of 8,000 cubic yards of cover layer material was approved for import to the Site since the IEM witnessed thorough mixing of the stockpiled material at the source site on the morning of September 14, 2012.

On September 20, 2012, the IEM notified NYCDPR that a portion of the 14,000 cubic yards of cover layer material sampled on September 14, 2012 was approved for import to the Site. Stockpile FFS consisting of 6,000 cubic yards of cover layer material was approved was based on the submitted environmental results meeting the Site Permit requirements and acceptable infiltration results. Stockpile NW consisting of 8,000 cubic yards had acceptable environmental results meeting the Site Permit requirements but was not approved due to infiltration results not meeting the Permit requirements. On September 21, 2012, the IEM notified NYCDPR that Stockpile NW consisting of 8,000 cubic yards of cover layer material was

approved for import to the Site since the IEM witnessed thorough mixing of the stockpiled material at the source site on the morning of September 21, 2012.

On September 28, 2012, the IEM notified NYCDPR that a portion of the 12,000 cubic yards of cover layer material sampled on September 21, 2012 was approved for import to the Site. Stockpile SW consisting of 2,000 cubic yards of cover layer material was approved based on the submitted environmental results meeting the Site Permit requirements and acceptable infiltration results. Stockpile DSS consisting of 10,000 cubic yards had acceptable environmental results meeting the Site Permit requirements but was not approved due to infiltration results not meeting the Permit requirements. On October 2, 2012, the IEM notified NYCDPR that Stockpile DSS consisting of 10,000 cubic yards of cover layer material was approved for import to the Site since the IEM witnessed thorough mixing of the stockpiled material at the source site on the morning of October 2, 2012.

On October 8, 2012, the IEM notified NYCDPR that all of the 16,000 cubic yards of cover layer material sampled on October 2, 2012 was approved for import to the Site. Stockpile SW consisting of 6,000 cubic yards of cover layer material was approved based on the submitted environmental results meeting the Site Permit requirements and acceptable infiltration results. Stockpile NW consisting of 10,000 cubic yards which had acceptable environmental results meeting the Site Permit requirements was approved based on the fact that the average of the infiltration test results met the Permit requirements and the IEM witnessed thorough mixing of the stockpiled material at the source site on the morning of October 9, 2012.

On October 18, 2012, the IEM notified NYCDPR that all of the 16,000 cubic yards of cover layer material sampled on October 9, 2012 was approved for import to the Site. The stockpiled cover layer material was approved was based on the submitted environmental results meeting the Site Permit requirements and acceptable infiltration results.

On November 7, 2012, the IEM notified NYCDPR that all of the 16,000 cubic yards of cover layer material sampled on October 24, 2012 was approved for import to the Site. Stockpile SW consisting of 6,000 cubic yards of cover layer material and Stockpile NW consisting of 10,000 cubic yards of cover layer material were approved based on the submitted environmental results meeting the Site Permit requirements and acceptable infiltration results.

On May 8, 2013, the IEM inspected previously tested and approved cover layer material (sampled October 24, 2012) at the source site and notified NYCDPR that import may resume for the previously approved material.

On July 25, 2013, the IEM notified NYCDPR that the latest round of East Coast Mines cover layer material (approximately 8,000 cubic yards) was acceptable for import to the Site. The submitted infiltration and environmental lab reports for sampling witnessed by the IEM on July 19, 2013 met the Site Permit requirements.

Approximately 167,007.05 cubic yards of cover layer material were imported to the Site from this source site.

3.1.2.4 Amboy Aggregates (415 Main Street, South Amboy, NJ)

The IEM reviewed the infiltration and environmental lab reports for cover layer material (2,000 cubic yards) sampled on August 27, 2012. The IEM notified NYCDPR on September 6, 2012 that the environmental results were acceptable per the Site Permit requirements, however the infiltration results did not pass the Permit requirements for cover layer material. The IEM's involvement on this source site was limited to witnessing the collection of the soil samples for testing and a review of the lab results.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.2.5 Long Island Compost/Great Gardens (445 Horseblock Road, Yaphank, NY)

On November 16, 2012, the IEM notified NYCDPR and LAWS that the Long Island Compost/Great Gardens source site (DEC Permit Number: 1-4722-03647/00001) was conditionally approved to allow for the import of topsoil to be used as cover layer material pending IEM visual inspection and witnessing the collection of soil samples of the proposed material at the source site.

On December 7, 2012, the IEM notified NYCDPR that the 2,000 cubic yard stockpile of cover layer material sampled at this source site on November 30, 2012 was acceptable for import to the Site as both environmental lab results and visual inspection met the Site Permit requirements. The NYSDEC waived infiltration testing requirements for this material as long as the material was used solely in tree pits.

The IEM witnessed sample collection for a 2,000 cubic yard stockpile of proposed cover layer material at this source site on March 20, 2013. On March 28, 2013, the IEM notified NYCDPR and LAWS that the submitted sample results did not pass the Site Permit criteria due to the fact that Benzo(a)pyrene exceeded the permit limit of .061 mg/kg in sample 49369 with a value of .097 mg/kg and Chromium exceeded the permit limit of 19.4 mg/kg in sample 49369 with a value of 22.9 mg/kg. The material was not approved for import to the Site as cover layer material at that time.

On April 9, 2013, the IEM notified NYCDPR and LAWS that the submitted sample results for a 2,000 cubic yard stockpile of proposed cover layer material at this source site (sampled on March 20, 2013) did not pass the Site Permit criteria due to the fact that Benzo(a)pyrene exceeded the permit limit of .061 mg/kg in sample 49369 with a value of .097 mg/kg. The revised lab report dated April 8, 2013 addressed concerns with the analysis of trivalent and hexavalent chromium (the previous lab report had only analyzed total chromium). On April 10, 2013, the NYSDEC notified NYCDPR that after further review of the revised lab results, the 2,000 cubic yards of material was acceptable for import to the Site.

On April 29, 2013, the IEM notified NYCDPR and LAWS that the submitted sample results for a 2,000 cubic yard stockpile of proposed cover layer material at this source site (sampled on April 19, 2013) did not pass the Site Permit criteria due to the fact that Benzo(a)pyrene exceeded the permit limit of 0.061 mg/kg with

a value of 0.140 mg/kg and Dibenzo(a,h)anthracene exceeded the permit limit of 0.014 mg/kg with a value of 0.020 mg/kg. On May 1, 2013, NYCDPR requested approval to use the material as backfill for the tree pits only. On May 1, 2013, the NYSDEC notified NYCDPR that the 2,000 cubic yards of material was acceptable for import to the Site.

On May 14, 2013, the IEM notified NYCDPR and Triton that the submitted environmental and infiltration sample results for 2,000 cubic yards of proposed cover layer material at this source site (witnessed by the IEM and sampled on April 30, 2013) was acceptable for import to the Site as both environmental and infiltration results met the Site Permit requirements.

On October 28, 2013, the IEM notified NYCDPR that that a review was completed for a 2,000 cubic yard stockpile of proposed cover layer material from this source site. The proposed material was visually inspected and sampling was witnessed by the IEM on October 16, 2013. Although the material passed the IEM's physical/visual inspections and did not yield any PID detections, the sampled material did not comply with Site Permit criteria for the following parameters: Benzo(a)pyrene exceeded the permit limit of 0.061 mg/kg in sample GBF65277 with a value of 0.150 mg/kg; Dibenzo(a,h)anthracene exceeded the permit limit of 0.014 mg/kg in sample GBF65277with a value of 0.024 mg/kg; and Dieldrin exceeded the permit limit of 0.044 mg/kg in sample GBF65277 with a value of 0.100 mg/kg. On October 29, 2013, NYCDPR submitted additional documentation to the NYSDEC for evaluation. Based on review of submitted information, the NYSDEC notified NYCDPR on October 29, 2013 that this material may be imported to Site and used solely for backfilling the parking lot curb planters and shall not be used as capping material.

On March 11, 2014, the IEM notified LAWS and NYCDPR that the 2,000 cubic yard stockpile of cover layer material originally sampled and witnessed on October 16, 2013 was acceptable for importation. On March 11, 2014, the IEM completed a site visit and performed a visual inspection of the existing stockpile at the source site.

Approximately 8,434.85 cubic yards of cover layer material were imported to the Site from this source site.

3.2 On-Site Fill Importation Inspections

3.2.1 Process

As required under Special Condition 24 of the 2014 Permit, all fill importation was inspected at the Site by the IEM. Fill material volume (truck volume) was measured and recorded for each delivery of fill material as it arrived on-site by NYCDPR's appointed representative. The fill material was then inspected by the IEM at the observation platform near the entrance to the Site. At this time, the fill material was visually and chemically inspected. The visual inspection included observations of the material, disturbing the material with a shovel, and close-up observations of the material retrieved by shovel while still in the truck or trailer. Chemical inspection of the fill material was executed using a calibrated PID. If the fill material failed to meet the Permit requirements for reasons such as a PID reading above ambient air, the presence of asphalt or some other unauthorized debris, etc., the load was rejected immediately prior to

dumping. If the material was rejected, the truck was not allowed to dump on-site and was directed to exit the site immediately.

If the fill material passed the initial inspection at the IEM observation platform, either it was allowed to dump directly at a work location for immediate use as shaping layer material or cover layer material or it was transported to, and dumped at, a stockpile location. At the dump location, the IEM screened the fill material visually and with a PID for a second time prior to spreading if dumped at an active work location. If the fill material did not meet the permit requirements at the dump location, it was immediately rejected, loaded back onto the same truck, and transported off-site.

After the second round of inspection and after the material was dumped on-site and accepted for use, the IEM recorded dump and stockpile locations utilizing handheld GPS units. The data was uploaded to a web-based GIS system intermittently throughout the process in order to provide real-time data to authorize users including the NYSDEC and NYCDPR and to generate figures used to track the dump locations in the biweekly FMRs. The web-based GIS database was maintained by the IEM. Figure 2, included in each FMR beginning with FMR 246, identifies where fill materials were being used and dumped on the Site during construction activities.

A flow chart detailing the on-site fill importation inspection process is included as Appendix 21.

3.2.2 Trucking Manifests

Trucking manifests were utilized for all imported shaping layer and cover layer materials. A 5-ply manifest form was completed for each load of material to track each load of material from origination at the source site to destination at the Site. The manifest contained information including but not limited to a manifest number, the source site name and address, the truck driver's name, truck and trailer license plate numbers, as well as the time of departure from the source site and arrival time at the Site. See fill import manifests included in Appendix 13.

Note that manifests for material approved for importation prior to November 2008 cannot be retrieved and are not included in Appendix 13. The manifest information was stored in a NYCDPR document repository that was damaged by flooding and the files have been lost. However, the FMRs for the time period prior to 2008 comment on the nature of this work.

3.2.3 Rejected Trucks & Materials (JFK Consent Order Material & Misc. Debris)

Generally, materials were either rejected upon initial inspection at the IEM observation platform or rejected upon dumping at the work area or stockpile location. The most common reasons for rejection were the presence of asphalt or other unauthorized debris mixed with the material or elevated PID readings.

Details for all rejected trucks were included in each bi-weekly Fill Management Report (FMR). Trucking manifests associated with rejected truckloads were marked with the word "REJECTED" by the IEM. Trucking manifests for rejected trucks are included as Appendix 13.

During 2010, fill material from one particular source at JFK Airport was brought on-site and placed in seven different stockpiles ultimately being used as fill material beneath the clubhouse and maintenance building parking lots. The material was believed to be in conformance with permit conditions. However, the material was found to be in violation of 2005 Permit Special Conditions 1, 9, and 16, during NYSDEC and IEM inspections. On January 10, 2011, NYCDPR signed an Administrative Order on Consent (Consent Order), Case No. R2-20100521-172, related to this fill material. The Consent Order is included as Appendix I, of the 2013 Engineering Report included in Appendix 20.

3.3 Fill Tracking

Special Condition 9 of the 2014 Permit required quantification of all imported fill material. Fill importation was continuously tracked by the IEM. To account for the difference in truck volume and in-place volume, the IEM applied a 41.7% correction factor for shaping layer material and an 18% correction factor for cover layer material as set forth in the Permit. Additional details and methodology related to calculation of the shaping layer correction factor is included in a December 11, 2009 letter included in Appendix 19.

The cover layer material correction factor was separated from the shaping layer correction factor and revised in accordance with a NYCDPR submittal dated April 1, 2013 and revised April 8, 2013. The methodology for calculating the cover layer material correction factor is included in the revised April 8, 2013 submittal, which is included in Appendix 19.

As shaping layer and cover layer fill materials were imported to the Site, the IEM tracked volumes for each source site with respect to authorized volume based on approved sample analysis results for each source at the required sampling frequency (i.e. per 10,000 cubic yards for shaping layer material and per 2,000 cubic yards for cover layer material as included in Special Condition 14 of the 2014 Permit). The volume of imported material was tracked real-time as the IEM uploaded source, truck, and fill material volume information as each load of material was dumped on the Site. The fill tracking process, as part of the overall environmental monitoring and database management web-GIS system developed by the IEM and utilized beginning on October 25, 2010, was awarded a New York Chapter American Council of Engineering Companies (ACEC) Platinum Award in April of 2013. The web-GIS system allowed the IEM to upload and store data related to each load of fill material entering the Site, map its location, and allow real-time access to the data and mapping for NYCDPR, NYSDEC, the Contractor, and the general public.

At various times throughout fill importation activities, source site, shaping layer, or cover layer material totals were modified for various reasons. Additional details related to corrections and modifications can be found in Section 4 of corresponding Fill Management Reports, notably FMRs 213, 266, 277, 290, and 305.

Effective with FMR 290 and retroactive to October 25, 2010 (i.e. Woodard & Curran's first day as the IEM on-site at the Site), shaping layer and cover layer material volumes were tracked based upon the calculated volumes within each truck, as calculated by TRC and provided to the IEM (i.e. Tables 4-2 and 4-3 of each FMR). This provided for the most accurate and consistent approach to monitoring the volume

of imported fill materials. Prior to receipt of the calculated volumes from TRC, the IEM tracked estimated volumes as trucks dumped on the Site.

The Fill Delivery Summary Table included in Appendix 11 contains information related to the total amount of shaping layer and cover layer materials imported to the Site. The total volume of shaping layer material imported to the Site since October 18, 2002 was 2,681,338.15 cubic yards (truck volume) or approximately 93.4% of the authorized amount under the Permit. The total volume of cover layer material imported to the Site since October 18, 2002 was 480,959.49 cubic yards (truck volume) or 100.1% of the authorized amount under the Permit.

On April, 17, 2014, the NYSDEC confirmed via email that a minor exceedance of the cover layer in-place volume as included in the Permit is acceptable considering no additional shaping material will need to be imported and that the exceedance could be addressed via as-built drawings and in the final construction certification report. A copy of the email is included in Appendix 19.

The Bronx-Whitestone Bridge bound the "Site" to the west, Balcom, Miles, and Emerson Avenues to the east, Schley Avenue and St. Raymond's Cemetery to the north, and the East River to the south. The project was originally managed under Ferry Point Partners, LLC (FPP).
On July 17, 2000 the New York State Department of Environmental Conservation (NYSDEC) issued Part 360, Solid Waste Management Permit No. 2-6006-00014-000110 jointly to the New York City Department of Parks and Recreation (NYCDPR) and FPP to allow a total of 1,000,000 cubic yards of fill to be imported and placed on the Site. Importation began in August 2000.

On October 18, 2002 the NYSDEC issued Part 360, Solid Waste Management Permit No. 2-6006-00014-000113 (2002 Permit) to allow a total of 1,522,300 cubic yards of fill to be imported and placed on the Site. The fill material was to consist of approximately 1,272,300 cubic yards of select exempt construction and demolition debris for the shaping layer, and approximately 250,000 cubic yards of uncontaminated soil for the cover layer. The 2002 Permit also stated that, "approximately 415,000 cubic yards of fill was deposited on the Site prior to the effective date of the permit and the projection for in-place fill material to complete the project was 1,107,300 cubic yards, consisting of approximately 857,300 cubic yards (in-place volume) of select exempt construction debris for the shaping layer and approximately 250,000 cubic yards (in-place volume) of uncontaminated soil for the cover layer.

In 2003, it was determined that the tournament quality and signature status of the course could be significantly improved by making the facility a "links" style course. The changes from the 2002 Permit include:

- Increasing the support mounding between golf holes and grading the course in a links style.
- Re-routing of holes 11, 12 and 13 to reverse their direction in order to improve player circulation and playing time.
- Moving Hole 9 to the west of the golf driving range in order to improve

the safety zone of the driving range and remove the need for high netting.

- Realigning the centerlines of holes: 10, 16, 17 and 18 to improve the strategic layout and visual experience of the golf course.
- Lowering the elevations of tee 4 and 6. This will eliminate the retaining wall proposed at the northeast comer of the Site.
- Adding a golf training area at the north end of the driving range. This required shifting the centerline of Hole 8 slightly north and increasing the support mounding around this area to buffer the adjacent holes.
- Increasing the mounding adjacent to the TBTA toll plaza in order to block noise and adjacent traffic from view.
- Shifting the Site roadway along the east side of the bridge to accommodate a TBTA easement that extends 25 feet east of the bridge. This required changes to the parking lot at the clubhouse and the location of detention/water quality basin, and waterfront park.
- Eliminating the Boathouse Grill restaurant in the Waterfront Park. A restaurant will now be located within the banquet facility. Parking spaces for the banquet facility were increased to accommodate the restaurant. A restaurant may be constructed within the waterfront park in a future phase, based on economic demands.
- Modifying the parking lot for the Waterfront Park. The 120 parking' spaces for the Waterfront Park will be located near the Whitestone Bridge approach structure.

These proposed changes to the golf course would have increased the total in-place fill volume for the project to 2,370,000 cubic yards to shape the course in a links style.

The quantification of the imported fill material was to be continuously tracked by both truck volume and periodic topographic surveys of in-place volumes. Initially it was assumed that truck volume would be reduced by 25% when compacted into place, but a new correction factor was to be calculated. On November 1, 2004, the NYSDEC approved a revised truck reduction factor of 42.4%, which was based upon an October 10, 2003 30% aerial topographic survey, and On December 7, 2004, the NYSDEC approved a revised truck reduction factor of 41%, which was based upon a July 17, 2004 60% aerial topographic survey. These recalculations were performed by dividing the actual in-place volume by the total cubic yards of truck volume delivered to the site as of the date of the survey as per the “2002 Permit

TRC Raymond Keyes Associates, A Division of TRC Engineers, Inc. prepared an, “Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY – Engineering Report; Dated May 31, 2005; Revised June 30, 2005” which comprised of Volume #1, Volume #2 and a twenty six (26) sheet drawing set entitled, “Ferry Point Park Public Recreational Facility Bulk Earthwork, Bronx, New York, Supplement No. 2” (2005 Report) . The 2005 Report represented the following scope of work:

- An eighteen (18) hole golf course with practice area.
- Maintenance Area in the northwest corner of the Site.
- Clubhouse Parking Lot in the southwest portion of the Site.
- Banquet Facility in the southwest portion of the site (along Emerson Avenue)
- Community Park
- Waterfront Park with parking lot.
- Drawing G-3 and G-4 of "Ferry Point Park Public Recreational Facility Bulk Earthwork, Bronx, New York, Supplement No. 2", showed the deviations in grading between the plans approved on 10/18/02 with the proposed plan.

On November 18, 2005 the NYSDEC issued Part 360, Solid Waste Management Permit No. 2-6006-00014-000113 ("2005 Permit") authorizing the importation of a total of 2,370,000 cubic yards of in-place fill material to the Site. The fill material was to consist of approximately 2,120,000 cubic yards of select exempt construction and demolition debris for the shaping layer, and approximately 250,000 cubic yards of uncontaminated soil for the cover layer. The truck reduction factor was 41% and could be further modified.

In 2007, TRC Engineers, Inc. ("TRC") was awarded a one (1) year contract to provide "Civil, Environmental and Construction Services for Compliance with DEC permit Related to the Construction of a Golf Course at Ferry Point Park". The order to work date for that contract was October 25, 2007. The scheduled completion date was October 23, 2008. The contract was extended an additional year to October 24, 2009. On October 26, 2009, "TRC" issued a "Year 2 End Project Summary" and estimated that approximately 202,000 total cubic yards of material was imported to the Site by October 22, 2007.

On October 26, 2007, the NYCDPR and FPP terminated the license agreement to develop, construct and operate the Project at the site and on February 29, 2008 FPP submitted an application to transfer the "2005 Permit" solely to the NYCDPR. On August 12, 2008, the NYSDEC notified the NYCDPR and FPP that the "2005 Permit" had been transferred to the NYCDPR.

The order to work date for construction of the Community Park was August 11, 2008. Fill importation continued as witnessed by the Independent Environmental Monitor (Gannett Fleming). On September 30, 2009, Thomas Balsley Associates, NYCDPR design consultant issued a revised drawing changing the limit of the Community Park. The new Site was reduced in size by moving the fence line in the south further north and by moving the fence along the proposed golf course closer to Balcom Avenue.

On January 22, 2009, in accordance with Special Condition #10 of the "2005 Permit", TRC Engineers, Inc. (TRC) submitted a revised truck reduction factor of 40.3%. On February 11, 2010, NYSDEC approved a truck reduction factor of 41.7%.

The order to work date for construction of the Ferry Point Golf Course was October 23, 2009. The golf course layout that the NYCDPR bid was modified from that which shown in the 2005 Report. One major

change was the total removal of the Banquet Facility in the southeast part of the Site. There were also changes in the placement, alignment and grading of some holes.

On February 1, 2013, the NYSDEC granted a permit modification to increase the limit of cover material to 394,000 cubic yards with the stipulation that the Agency revisit the compaction factor. It was determined that the compaction factor for the granular cover material (sand) would be 18%. This would revise the "trucked in" quantity to 480,488 cubic yards. The compaction factor for cover layer material approved per April 26, 2013 letter from NYSDEC to DPR.

On May 21, 2014, the NYSDEC issued Part 360, Solid Waste Management Permit No. 2-6006-00014-00013 (SW) & 2-6006-00014-00013 (TW) to the NYCDPR to allow a total of 2,514,000 cubic yards of material in-place volume (2,120,000 cubic yards in-place shaping material/394,000 cubic yards in-place cover material).

3.4 Total Carcinogenic Semi-Volatile Organic Compound Tracking

As identified in Special Condition 14 of the 2014 Permit, the NYSDEC Acting Regional Director letter dated October 25, 2006, authorized the import of shaping material with a total carcinogenic SVOC (tcSVOC) level of up to ten parts per million (ppm), which would not otherwise be acceptable, provided the tcSVOC weighted average of all imported material is equal to or less than 3 ppm at the end of each quarter. The tcSVOC weighted average is defined as the sum of the products of the material volume and the material tcSVOC, for each material source, divided by the total volume of the material imported. The weighted average was calculated over the course of construction and the final weighted average for shaping layer and cover layer materials imported to the Site was 0.70 ppm, less than the 3 ppm maximum. The total carcinogenic SVOC weighted average table and computations are included in Appendix 12 for materials imported to the Site after November 18, 2005.

SVOCs were not sampled for at the East Side Access and 2nd Avenue (94th Street) source sites due to the source being undisturbed, virgin rock material generated from subway tunnel boring. NYSDEC email correspondence dated April 15, 2011 stated that the IEM should apply one-half of the method detection limit (MDL) from the latest lab report sampled at that time for materials originating from those two source sites.

4 Construction

4.1 General Construction

4.1.1 Community Park

Construction of the Community Park consisted with capping the 11 acre site, installing baseball fields, a basketball court, walkways, a comfort station, and a landscaped stormwater retention area. Construction started on August 11, 2008. As of December 31, 2011, the stormwater retention pond, passive landfill gas (LFG) vents, and recreation facilities were considered complete. The Order to Work date for the comfort

station was March 19, 2014. The original scheduled completion date was September 15, 2014. The anticipated completion date is currently the Fall of 2015.

4.1.2 Golf Course

Generally, construction for the Golf Course was completed from the northeast to the southwest. The sequence of construction started by grading, rough shaping and compacting each hole, installing major drainage lines and inlet drains, installing irrigation lines and fine shaping the holes, installing branch drainage lines, constructing the greens and tees, installing demarcation material, grading cover material, fine grading cover material, and final stabilization by hydro-seeding. Each hole was constructed individually and then turned over to Trump, who is contracted with NYCDPR to maintain and operate the grounds and golf course, for care and maintenance during the grown-in period and prior to course operations.

LAWS completed construction work, including punch list items associated with their construction contract, and demobilized from the site in July 2014. Trump has and continues to perform various earth disturbance related work on the Site, in addition to standard maintenance of the Site. All permit related activity, including earthwork, general construction, and fill deliveries have been coordinated with the IEM, and the IEM has witnessed the work activity and documented inspection observations in the Daily Observation Reports. Specifically, IEM oversight related to Trump's on-site activity includes, but is not limited to, the replacement and relocation of trees, construction of a clock tower and associated subsurface concrete footing, excavation of trenches and installation of utilities to support various on-site facilities including the temporary clubhouse, installation of a cart barn, re-grading of an existing shaping and cover layer earthen berm and subsequent installation of concrete block letters at the surface, and installation of asphalt. For a detailed description of Trump's work activities requiring IEM oversight subject to the Permit conditions, refer to the Daily Observation Reports located in Appendix 5 beginning on June 19, 2014.

4.1.3 Waterfront Park

Special Condition 37 of the 2014 Permit requires that NYCDPR submit a revised design for the Waterfront Park and provides NYCDPR the flexibility to remove the Waterfront Park from the NYSDEC Part 360 Permit and permit the project under a separate NYSDEC tidal wetlands permit. The Waterfront Park is currently in the process of being conceptually scaled back in magnitude due to the impacts of Hurricanes Irene and Sandy, and design plans are being value engineered and developed. NYCDPR intends to submit plans to the NYSDEC upon completion of an approved design, and handling the construction via a separate NYSDEC tidal wetlands permit. Any SEQR related documents will be updated accordingly. The final end use of the Waterfront Park is anticipated to be publically accessible and consists of a passive recreational feature. NYCDPR will not be performing post-construction monitoring in this area of the Site until construction is completed and approved, and will restrict public access until such time.

4.2 Environmental Controls/Construction

4.2.1 Wells (Landfill gas, groundwater and water balance analysis)

NYSDEC requested NYCDPR on August 6, 2010 to demonstrate that soil being used for final cover material (not specifically the uppermost layer) would have a sufficiently low coefficient of permeability and percentage of organic material to minimize infiltration of water into the lower layer of fill material. These comments were submitted as additional comments to the November 25, 2009 permit application submittal.

NYCDPR performed a site-wide water balance evaluation to predict post-construction infiltration rates. EPA's Hydrologic Evaluation of Landfill Performance (HELP) model was used for this evaluation. The results were presented to NYSDEC on May 13, 2011 as well as incorporated in Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East, Bronx New York October 15, 2013. The model used criteria including a typical one-foot thick soil landfill cover with the proposed soil cover material as designed for the facility. The model also accounted for impermeable areas of the site, irrigation of the golf course, drainage system stormwater capture and the lining of ponds.

The soil cover permeability of 14 inches per hour was used for the overall site model. Using this infiltration rate the overall volume of water penetrating the site would be lowered by approximately 9,700 gallons per day. A subsequent water balance analysis was submitted to NYSDEC on August 10, 2011 presenting infiltration rates with a soil permeability of 30 inches per hour that also lowered the overall volume of water infiltrating the site following completion of construction. Discussion and request for confirmation that the site drainage was adequate for a 30 inch per hour permeability took place and the final maximum permeability of 30 inches per hour was approved by NYSDEC for cover material. Cover material imported to the site was tested subsequent to this approval to insure it was able to meet the goal for material permeability. More specifically, testing was combined from individual stockpiles and sources and the average from those was used to determine acceptability of material. Individual variability in sample results was expected because loading, unloading, stockpiling and spreading over the site was recognized as providing a homogeneous layer over the site. Samples were collected at a frequency of one per 2,000 cubic yards moving forward from January 26, 2012 until importation of material was completed.

Additional impacts on water balance came from lined irrigation and retention ponds. There is one large irrigation pond located on the course and several small retention ponds located throughout the open course. The irrigation pond's purpose is to collect storm runoff during storm events and stor it to be utilized for irrigation of the upper cover layer during non-storm periods. The grading and drainage for the stormwater collection and retention were provided in the November 25, 2009 permit application. NYSDEC requested that infiltration beyond the upper layer of cover material be minimized to the maximum extent possible on August 6, 2010 and this included lining each of the five on-site retention ponds to limit infiltration as much as could be done.

The subsequent changes to cover permeability and the lining of irrigation and retention ponds required a review of the Stormwater Pollution Prevention Plan (SWPPP) in order to confirm the additional flow would

not exceed the design criteria for the storm system. The engineering review conducted at that time (October 18, 2011) confirmed the stormwater system design was adequate to carry this flow.

NYSDEC granted a conditional approval for the Ferry Point Site to accept a 30 in. percolation rate per hour cover material on October 21, 2011. The conditional approval was based on a request for DPR to "submit for approval an amendment to the Stormwater Pollution Prevention Plan (SWPPP) dated November 13, 2009, with plans and computations that reflect the partial lining of the stormwater basins." DPR provided this in a technical memorandum to NYSDEC on November 16, 2011. The memorandum presented a formal submittal of the pond liner design to NYSDEC and included excerpts of calculations from the November 13, 2009, SWPPP. An approval was provided by NYSDEC on December 2, 2011.

Municipal solid waste (MSW) filling operations ceased at the Site in the 1960s, prior to the implementation of the comprehensive environmental regulations now in place, and a formal groundwater sampling program was not required at that time. Information on groundwater quality at a former landfill site such as Ferry Point Park East can be used to help evaluate existing groundwater conditions. For the 2005 Permit application, the Site's history was reviewed and a geotechnical investigation was performed to evaluate the potential for adverse impacts on the Site's groundwater due to the placement of fill during construction of the golf course and parks.

A summary provided in the 2005 Engineering Report concluded "that the placement of fill would not have an adverse impact on pre-development groundwater conditions at the site and that the proposed golf course construction would not result in an increased flow of contamination into the river through groundwater flow." (TRC 2005a).

In their comments of June 25, 2010, NYSDEC asked DPR whether any new information was available regarding groundwater conditions at the Site, and if any new, relevant information was available, to verify the conclusions of the geotechnical portion of the 2005 Engineering Report (TRC 2005a).
Following several discussions with DPR, and because no prior sampling had been required, NYSDEC requested that DPR undertake a groundwater sampling program and develop a reference point for background water quality conditions at the Site.

To comply with this request, DPR prepared written field procedures for new well installations, well development, and groundwater sampling (see Appendix G.1).
The field procedures were submitted to, and approved by, NYSDEC prior to the start of the work effort. Prior to installation, the locations of the monitoring wells were approved by NYSDEC during a meeting held with DPR on September 22, 2011.

Landfill gas monitoring over the entire Site has incorporated various different types and configurations of monitoring points. These include perimeter and interior wells and vents that have been monitored over time on a regular frequency. Monitoring has been recorded and reported according to Special Conditions Monitoring as referenced in the March 2014 permit and results dictate continued additional monitoring when that has been necessary. This monitoring continues under the Post Closure Monitoring

requirements and in accordance with the Landfill Gas Management Plan. A total of thirty seven passive vents were installed throughout the Golf Course and Community Park on an average spacing of approximately one vent for every five acres. These vents are considered passive and allow the natural venting of subsurface gases to take place without any additional vacuum or fans. Additional active vapor removal does take place at each of the constructed buildings on the site. This includes the comfort station and maintenance shed on the Golf Course and comfort station at the Community Park. Active systems operate at both of these locations on a continual basis and vent the subsurface area beneath the associated slabs to the atmosphere. There are no structures planned for or constructed on the Waterfront Park parcel at this time.

Passive gas vents are installed throughout the golf course and are included along the perimeter within the venting trenches, within the overall golf course as individual stand-alone vents and in combined systems of interconnected piping to carry landfill gas from beneath irrigation ponds.
Landfill gas monitoring includes perimeter probes located along an approximate 250 linear ft. interval on the north, east and southern site boundaries; off-site monitoring points along Buttrick, Balcom, Schley, Miles and Emerson Avenues; a passive vent trench installed along the eastern and northern perimeters of the course with piezometers installed along the vent trench to allow for monitoring of the groundwater levels associated with the vent trenches; individual passive vents within the golf course and community park space; a passive vent system of interconnected piping serving the irrigation pond; and sub-slab depressurization systems beneath the enclosed buildings located within the golf course and community park.

In February 2012, eleven new groundwater monitoring wells were installed across the Site to obtain information on current groundwater conditions. Design documents for the groundwater monitoring wells are included in Appendix G.2 of the 2013 Engineering Report, included in Appendix 20. An initial sampling event was completed in February 2012 and included the testing activities described below.

■ Groundwater Elevation Measurements: Water depths were measured at the 11 groundwater monitoring wells. Two measurements were taken from each well within one hour each of high and low tides, starting at the shoreline and moving inland.
■ Elutriate Testing: One soil core sample per well was collected during well installation in order to perform elutriate analysis. Samples were selected from shaping material zones based on visual observation of the soil cores.
■ Groundwater Testing: Groundwater samples were collected at each of the 11 wells and shipped for laboratory analysis in accordance with the required testing as referenced in the 2002 permit.
■ Hydraulic Conductivity Testing: In situ slug testing for hydraulic conductivity was completed at each of the 11 groundwater monitoring wells.

The initial groundwater monitoring data from February 2012 was submitted to NYSDEC by email on March 28, 2012. This data is included in the report for the initial groundwater monitoring event (see Appendix G.5 of the 2013 Engineering Report, included in Appendix 20). At that time, DPR requested direction from

NYSDEC concerning procedures for future sampling events. That is, should future sample collection be modified due to the high turbidity.
(>1,000 nephelometric turbidity units [NTUs]) observed in the initial samples. A call was held with NYSDEC on May 8, 2012, to discuss the initial data and provide guidance on future monitoring (see Appendix G.3 of the 2013 Engineering Report, included in Appendix 20 for call minutes.) Also during this call, NYSDEC directed DPR to perform inorganic analyses on both filtered and unfiltered samples collected during the next sampling event. If the next round of results is found to be in expected ranges, then future sampling events will utilize only filtered samples for inorganic analyses.

NYSDEC provided DPR with requirements for future groundwater monitoring in their FPP Groundwater Characterization/Monitoring Objective, on May 8, 2012 (see Appendix G.4 of the 2013 Engineering Report, included in Appendix 20). DPR implemented the groundwater monitoring program in accordance with the schedule and monitoring parameters requested by NYSDEC.

The schedule included two additional quarterly sampling events, followed by approximately three semi-annual events (through completion of construction) and three post-construction annual sampling events. After the third annual sampling event, DPR may request to reduce the sampling frequency or cease the groundwater sampling program at the Site. Table 4-1 provides a schedule of the monitoring events that will be performed to complete this program and the parameters that will be analyzed for during each event.

Post-construction groundwater monitoring and groundwater monitoring well maintenance requirements are incorporated into the Post-Construction Custodial Care Plan for the Site (see Appendix I).

4.2.2 Liners

A single irrigation pond has been constructed at the Site. The purpose of this pond is to collect and store stormwater runoff and reuse it later for irrigation and maintenance of the golf course vegetative cover. This pond is fully lined to maximize the retention of irrigation water. The irrigation pond design documents were included in the November 25, 2009, permit application package. In addition, there are five smaller water quality ponds designed to provide active stormwater retention and limit the off-site migration of sediment. The geometry and grading (engineering design) of these ponds were also provided in the November 25, 2009, permit application package. DPR considered various methods to meet NYSDEC's request of August 6, 2010, to minimize the infiltration of water through "the lower layers of material to the maximum extent possible." Based on this consideration, DPR is implementing a recommendation contained in the November 16, 2010, memorandum (see Appendix D.1 of the 2013 Engineering Report, included in Appendix 20) to line the five on-site water quality ponds to limit water exfiltration. The pond system has been included in the overall water budget evaluation that was submitted and approved by NYSDEC in addition to the permeability of the upper imported fill material.

Supplemental drawings and specifications for the lining of these ponds are provided in Appendix D.4 of the 2013 Engineering Report, included in Appendix 20. The pond liner designs are consistent with the

previously approved geometry and grading (engineering design) presented in the November 25, 2009, permit application package.

4.2.3 Gas Venting

4.2.3.1 Active

According to the 2009 permit the site wide active landfill gas control system consistent with the proposed with the 2005 permit was withdrawn as a design modification. Active systems were installed at buildings and initially proposed for the irrigation lake.

Based on the Final Engineering report, due to the explosive nature, LFG is not allowed to accumulate within any enclosed structure at the site. Therefore active sub-slab depressurization systems (SSDS) have been installed at each of the enclosed buildings at the site. These systems have continuous explosive gas monitoring components of the design. The irrigation lake was not made active and continues as a passive system as per the September 2009 permit modification application.

The SSDS engineering drawings for the golf course facilities (maintenance building and comfort station) are provided in Appendix F.3 of the 2013 Engineering Report, included as Appendix 20. The Community Park comfort station design was provided in the November 25, 2009, permit application. The Waterfront Park comfort station has not been designed. Maintenance of the SSDS and their monitoring equipment will be performed in accordance with the operations, monitoring, and maintenance (OM&M) program for the Site's Landfill Gas management system (see Section 4.4.4). The design of any additional structures at the Site will be completed in accordance with New York City Department of Buildings requirements. The need for LFG mitigation systems for any future Site structures will be evaluated as part of their design.

4.2.3.2 Passive

The LFG management system as redesigned for the Site (since the November 25, 2009, permit application submittal) is an update of prior conceptual passive LFG designs and includes a passive system for the venting of LFG in all areas not covered by enclosed facilities. The primary goals for the design of the Site's LFG management system are to provide safe operating conditions and protect human health.

The proposed passive system is consistent with the plans presented in the 1999 EAS (AKRF 1999), the 2002 Technical Environmental Assessment (AKRF 2002), and the 2005 Engineering Reports (TRC 2005a, b) and was approved under the 2005 Part 360 Permit. It deviates from the 2009 permit renewal application prepared by TRC Engineers (TRC), which recommended an active system. An active system uses blowers or fans to extract gas through vents from the landfills subsurface, whereas a passive system uses vents without blowers or fans. Supplemental Site investigations and extraction testing performed by TRC Engineers at the Site in 2009 and 2010 were reviewed by Walsh Environmental Scientists and Engineers, LLC (Walsh) in 2010. Emissions modeling was also performed by EEEPC in 2010, as discussed in Section 4.4.1. Based on these evaluations and modeling of Site conditions, a Landfill Gas Management Plan (LFGMP) was prepared (see Appendix F.1 of the 2013 Engineering Report, included in Appendix 20). The plan concluded that a passive venting system is sufficient to achieve safe operating conditions for users and workers of the golf course and parks. A description and details of the Site's LFG management system

are presented in the LFGMP. The LFG management system as currently designed is consistent with the proposed venting system described in the 2005 Permit.

4.2.4 Vent Trench

The landfill gas perimeter trench was the primary gas-management structure installed in or about 2001. The Trench was initially proposed in the 1999 conceptual LFG control system. The purpose of the vent trench was to capture and prevent the off-site migration of LFG. The 2002 AKRF Report included installation details and certified drawings of the trench and its details.

The LFG trench was constructed along the eastern and a portion of the northern perimeter and was completed in 2001. The trench begins at the water's edge at the foot of Emerson Avenue, continues along the length of the Balcom Avenue Site boundary and continues approximately 1050 ft. in a westerly direction past the intersection of Schley and Buttrick Avenues.

The LFG passive trench is essentially a stone-filled /geotextile-wrapped envelope that begins three feet below the groundwater surface and extends upward to just below the ground surface. The upper 6 inches of the trench is dressed and finished with a layer of wood chips that allow LFG entering the trench to vent to the atmosphere. During the construction there were some areas where stability of the fill material at the water table was noted to be an issue and in these areas the trench was extended to a depth of one foot below the groundwater surface. In addition to the gravel filling of the trench to allow for a porous medium allowing LFG to move upward and escape, a continuous 4 to 6 inch diameter perforated PVC pipe was buried in the upper portion of the stone backfill. Vertical passive vents are connected to this horizontal piping to allow for future modifications should the top of the trench need a cap installed above it. The trench will collect and disperse any and all LFG that comes into it but it was primarily designed to remove methane from passing beyond the site boundary. The vent trench was specifically installed below the elevation of measured groundwater in order to maintain a constant layer of saturation within the lower part of the trench. This groundwater layer would prevent landfill gas from migrating beneath the trench and off of the site. Passive vents were also installed within the trench to allow a rapid ascent of LFG out of the trench and into the atmosphere. Concentrations of LFG that could be an issue within the trench would immediately be diffused in the atmosphere and reduced to a concentration that is not a concern.

Following the installation of the trench, methane concentrations were noted to have declined significantly, demonstrating the effectiveness in controlling LFG in the area.

Landfill gas migration is influenced by a number of factors including barometric pressure, diffusion gradients, composition and distribution of subsurface soil and fill material and groundwater. As landfill gas builds up and accumulates, it moves outward from the points or areas /zones where it is generated, spreading into other areas. Landfill gas migrating vertically will reach the surface and diffuse when it mixes with ambient atmospheric air. The other main concern for migration from the landfill was horizontal migration from the landfill to areas off-site. This horizontal migration can be controlled and to a significant extent can be eliminated through the use of LFG trenches. The LFG trench configuration can prevent accumulated gas from passing beyond the site because it creates an area allowing for diffusion and mixing of LFG with ambient air. The overall trench is constructed and filled with material of a higher

permeability than the surrounding soil or fill and typically offers a more direct connection to the open atmosphere. The base of the trench is extended into the water table which performs two functions that both increase the opportunity for LFG to be removed and thus prevent it from migrating offsite. The first offers a more open contact of the shallow groundwater surface to ambient air allowing dissolved concentrations to be volatilized out of the water column into the air and the second prevents LFG that exits from the landfill soil from travelling beneath the trench out beyond the site.

Approximately 5,350 feet of LFG passive vent trench was constructed along the site boundary between May 2001 and December 2001.

Routine inspections of the LFG passive vent trench included the following observations, depth of wood chip layer over geotextile, excessive fine grained materials, vegetation, erosion along the vent trench and any other condition that may have a potential to compromise the ability of the LFG passive vent trench to intercept and transmit LFG to the atmosphere. Refer to the non-conformance table. Monitoring includes routine bi-weekly observations and inspection of the following specific components of the trench:

- Observation of the covering wood chips to insure they extend to and are level with the ground surface and are free of excessive fine grained materials that would restrict the flow of LFG from the trench once it is intercepted.
- Observation of the vertical hard piping risers to insure they do not show signs of cracking bends or breaks;
- Observation of the vertical riser piping to insure they remain vertical and anchored as they were installed;
- Observation of the vertical vents and openings to insure they remain open.

Continued monitoring of the trench is described in Special Conditions 30 of the modified Permit with NYSDEC. This includes monitoring of groundwater levels in the adjacent monitoring wells. If the groundwater is noted below the bottom of the trench, the following actions are initiated:

1. Evaluate the methane concentrations in nearby perimeter methane monitoring wells and semi-permanent monitoring points. If the methane concentrations measured that day are below the site-specific action level of 25% LEL, continue the normal (bi-weekly) methane monitoring frequency and increase the groundwater level measurements at the location of concern to bi-weekly.
2. If the groundwater level measured at the initial bi-weekly monitoring event is above the base of the vent trench, then defer back to the routine monthly piezometer monitoring frequency.
3. If the groundwater level remains below the trench bottom for the first additional bi-weekly monitoring event, but nearby perimeter methane monitoring wells and semi-permanent monitoring points are below the site-specific methane action level of 25% LEL, continue groundwater level and methane monitoring at a bi-weekly frequency until such time as the

groundwater level is above the base of the trench. Then defer back to the routine monthly piezometer monitoring frequency.

4. If the groundwater level remains below trench bottom for the first additional bi-weekly monitoring event, and nearby perimeter methane monitoring wells and semi-permanent monitoring points are at or above the site-specific methane action level of 25% LEL, then continue monitoring the groundwater levels and methane concentrations for the second bi-weekly event.
5. If the groundwater level remains at or below the trench bottom for the second bi-weekly monitoring event, and the nearby perimeter monitoring wells and semi-permanent monitoring points remain at or above the site-specific methane action level of 25% LEL, further recommendations will be made to NYSDEC.

4.2.5 Landfill Cap

In accordance with provisions of the Permit dated May 21, 2014 the landfill was capped with minimum of one foot of shaping layer material over the landfill and one foot of cover layer material over top of the shaping layer material. In areas where there was less than 4 feet of shaping material over the waste layer, a layer of demarcation material was installed. See Section 4.4 for additional information related to the landfill cap construction.

The permit authorized importation of 2,514,000 cubic yards of material to the Site for overall capping of the waste material. This consisted of approximately 2,120,000 cubic yards of select exempt construction and demolition (C&D) debris for the shaping layer, and approximately 394,000 cubic yards of cover material. Specific restrictions were incorporated into the material and those restrictions were maintained and are described under the importation section of this Report. Final surface components of the cap including; greens, contour, heights and top soil) were incorporated into the site under the Nicklaus Design Technical Specification of the June 30, 2005 Engineering Report. This included:

- Greens-Mix imported to the site and tested as per the material testing requirements. Fertilizer and soil amendments applied on the greens after spreading to construction specifications and then grassed as per the specifications.
- Topsoil-Imported to be consistent with native topsoil, and free of rock and debris greater than three quarters of an inch as per Exhibit C of the Engineering Report. Soil amendments, fertilizer applications and seed were added to tee, fairway and rough areas as per Exhibit C of the June 30, 2005 Engineering Report.

4.2.6 Environmental Controls On-Site Structures

Due to its potentially explosive nature, LFG shall not be allowed to accumulate within any enclosed structure at the Site. To protect the occupants, an under slab vent system for each enclosed building shall be installed and continuously operated. The LFGMP (see Appendix F.1 of the 2013 Engineering Report, included in Appendix 20) describes the active sub-slab depressurization systems (SSDS) that have been designed for the under-slab of each enclosed building at the Site. These systems will have continuous explosive gas monitoring with local and remote alarm capabilities. The SSDS engineering drawings for the

golf course facilities (maintenance building and comfort station) are provided in Appendix F.3 of the 2013 Engineering Report, included in Appendix 20. The Community Park comfort station design was provided in the November 25, 2009, permit application.
Maintenance of the SSDS and their monitoring equipment will be performed in accordance with the operations, monitoring, and maintenance (OM&M) program for the Site's Landfill Gas management system (see Section 4.4.4). The design of any additional structures at the Site will be completed in accordance with New York City Department of Buildings requirements. The need for LFG mitigation systems for any future Site structures will be evaluated as part of their design

Low-permeability soil/bentonite collars ("soil collars") will be installed for all utility trenches that contain permeable bedding in order to prevent the migration of LFG into enclosed buildings at the Site. The soil collars will be installed around the water and sewer pipelines, within the trenches at the subsurface location where the pipeline crosses above the building foundation (the building line). Each soil collar will be passively vented as described in the LFGMP (see Appendix F.1 of the 2013 Engineering Report, included in Appendix 20) and as shown on the engineering design drawings in Appendix F.2 of the 2013 Engineering Report, included in Appendix 20. Similarly, conduit seals will be used for electrical conduits that are installed in trenches using permeable bedding materials. The conduit seals will be installed at the building lines. Other utility LFG controls include the under slab passive venting for the aboveground double-check valve (DCV) enclosure. The DCV enclosure is for the potable water supply line as it enters the golf course site. Detailed design drawings for the venting the DCV enclosures are provided in Appendix F.4 of the 2013 Engineering Report, included in Appendix 20. The need for LFG venting for any future Site subsurface vaults will be evaluated as part of their design.

4.3 Municipal Solid Waste (MSW)

Municipal solid waste ("MSW") was generated throughout site development and excavation activities. MSW material was not utilized as fill material on-site after it was encountered and excavated during construction activities with the exception of MSW excavated and reused on-site in accordance with an Order On Consent issued by the NYSDEC and fully executed as of January 4, 2004 (Order On Consent No. R2-20030724-187). A copy of the executed consent order is included in Appendix 19. In accordance with Special Condition 8 of the 2014 Permit, upon encountering MSW during site development, the material was transported and properly secured into segregated stockpile locations prior to off-site disposal. MSW material consisted of metal, glass, tires, plastics, rubber, paper, fabrics, and miscellaneous debris not suitable for the shaping layer. Refer to Section 4.5 of this report to review further details regarding the minimum fill cover over top of the MSW.

Prior to stockpiling any excavated MSW, the existing ground surface was covered with an impermeable plastic membrane. The stockpile was then encircled with silt fence and the stockpile was covered with an impermeable plastic that was secured with sand bags after the MSW was stockpiled and prior to off-site disposal.

Waste characterization sampling was performed prior to off-site removal as required prior to acceptance by each solid waste facility. Prior to disposal, waste samples were collected from each of the stockpiles

and analyzed to determine if the material was hazardous and to determine a suitable NYSDEC facility for disposal by way of a permitted hauler. A January 22, 2010 letter approving Seneca Meadows Landfill as a disposal facility is included in Appendix 19.

Residual MSW excavated by Trump associated with utility and drilling work at the Golf Course stockpiled in the adjacent Waterfront Park have been removed.

4.3.1 Manifests

Manifests were collected for each load of MSW generated and disposed of off-site. Manifests were completed for each load of MSW prior to leaving the Site. Completed manifests contained the following information: driver signatures and appropriate transporter information, facility designation including the address for the facility that was receiving the material, a description of the material being transported, the site generator's mailing and site address, and a total quantity of the material leaving the Site. The weight of MSW was determined by weighing the material (in tons) during the loading process. The MSW was loaded with a pay loader with a scale attached to the bucket. A receipt for the weight of each load was printed and was presented to NYCDPR with the manifest for review. NYCDPR and/or their designated representative signed the manifests as the generator, and then the manifests were then presented to the IEM for final verification.

Copies of the MSW disposal manifests are included in Appendix 14.

Note that MSW manifests accounting for material prior to October 25, 2010 (i.e. Woodard & Curran's first day on-site as the IEM), cannot be retrieved and are not included in the appendix. The information was stored in a NYCDPR document repository that was damaged and the files have been lost. However, the FMRs prior to October 25, 2010 comment on the nature of this work.

4.4 Earthwork/Fill Placement

Earthwork and fill placement for this Project were performed in accordance with the Permit. A response received from NYSDEC on July 28, 2009 (included in Appendix C.2 of the 2013 Engineering Report, included in Appendix 20), provided additional clarification regarding what are considered active and passive recreational areas. As per this letter:

Active Recreation – "…all other areas that are not covered with a building or other impermeable cover system… are deemed active recreational areas."

Passive Recreation – "…the golf course is deemed a "passive recreational area" and is required to have a one foot thick cover layer over a demarcation layer."

Following this directive, NYCDPR requested clarification from NYSDEC regarding the demarcation layer requirement for the extent of the Golf Course. The request for clarification was based on the need for further specificity regarding the use of a demarcation layer on the Golf Course.

In response, NYSDEC and NYSDOH reviewed a summary of the analytical data for all the shaping material imported to the Site. Upon review of the data set, confirmatory analytical sampling of the in-place shaping material was requested by the NYSDEC and NYSDOH. NYCDPR conducted test pit sampling and analysis under an approved work plan and submitted the data to the NYSDEC on February 16, 2011.

In their letter dated March 9, 2011, the NYSDEC stated that "NYSDOH reviewed the shaping layer test pit data and determined that it confirmed existing shaping layer data." The NYSDEC and NYSDOH agreed that a demarcation layer would not be required at areas of the golf course having a fill thickness of five or more feet of combined shaping and cover layer materials. The March 9, 2011 letter is included in Appendix C.3 of the 2013 Engineering Report, included in Appendix 20.

The aforementioned directives were the basis for the earthwork, fill placement, and landfill capping process. Additional details related to shaping layer material placement, demarcation layer installation, cover layer material installation, and related construction is as follows.

4.4.1 Shaping Layer Material

The Permit requires a minimum of one foot of clean shaping layer material to be installed over top of the existing MSW prior to cover layer material placement. Specific to the Golf Course, grading and compaction activities associated with the shaping layer material were generally completed by hole, consistent with the golf course architect's design. Once grading and compaction of the shaping layer material was completed, NYCDPR completed topographic surveys of the newly graded shaping material layer to assist in determining the depth of clean shaping layer material that was present over the pre-existing landfill surface. These shaping layer material surveys were generated intermittently as shaping layer material installation was completed in sections of the Golf Course.

An analysis was conducted by the IEM, which compared compiled historic surveys from 1998 to the final shaping layer surface surveys completed by NYCDPR. The 1998 surveys included elevations representative of the landfill surface for the Site prior to the earthwork associated with the Project. Based on an analysis and comparison of the survey data, portions of the Site that had less than four feet of approved shaping layer material were identified in a series of earthwork analysis drawings that were provided to the NYSDEC. The earthwork analysis drawings are included in Appendix 10. These plans identify the depth of shaping layer material and show the general progression of shaping layer material filling across the Site. Figure SP-001 entitled "Shaping Layer Material Earthwork Analysis via Surveys" includes a site wide earthwork analysis compiled from the various Site surveys and earthwork analyses completed as construction progressed at the Site.

In areas identified on the earthwork analysis drawings to have less than one foot of clean, in-place shaping material, test pits were performed by the Contractor and observed by the IEM to verify that a minimum of one foot of shaping layer material was present over the MSW, per the plans and Permit requirements.

If areas were found to have less than the required one-foot minimum of shaping material and could not receive additional fill based on the design plans, these areas were adjusted by over excavating the MSW

and backfilling with clean shaping layer material. This process was necessary in order to maintain the designed grades and comply with the Permit conditions. With oversight by the IEM, areas with MSW encountered at shallow depths in the tests pits were excavated outwards from the test pit location until one foot of clean shaping layer material was present. See Figure SP-100 entitled "Shaping Layer Material Test Pit Plan", which includes test pit locations superimposed on an earthwork analysis that visually represents the frequency, location, and presence of MSW within the required one foot minimum shaping layer section prior to reshaping. All test pit locations and the limits of the over-excavation were GPS located by the IEM utilizing a handheld GPS unit. Test pit locations were spaced 50 feet apart over the entire areas that the survey analysis estimated to have less than one foot of shaping layer material. In addition, if MSW material was encountered within the one-foot minimum shaping layer, the frequency of test pits were increased at the IEM's discretion to more accurately determine the extent of over-excavation required. Observations of test pit activities associated with evaluating the shaping layer material thickness are detailed in the IEMs Daily Observation Reports.

4.4.2 Demarcation Layer

Consistent with Special Condition 14 of the 2014 Permit, a demarcation layer was installed at the Site, specifically the Golf Course, where the combined thickness of shaping layer and cover layer materials combined were less than five feet. For this Project, "demarcation layer" meant a brightly colored, permeable plastic material placed on top of the Site's shaping layer material and directly beneath the Site's final cover layer material that is easily recognizable during an excavation. The request was made for the protection of Site workers during any future excavation work beneath the cover layer at the Site. Demarcation layer material for this Project consisted of orange construction fencing for the Golf Course.

On July 10, 2012, the NYSDEC confirmed that a nine-inch thick asphalt and subbase layer for the cart paths did not require any underlying cover material or demarcation layer. A black geo-grid material was installed under the cart paths associated with the Golf Course as part of the design. A copy of the correspondence is included in Appendix 19.

On November 21, 2012, the NYSDEC notified NYCDPR that demarcation layer may be eliminated from under ponds as NYCDPR identified that demarcation layer was not required as part of the Permit. A copy of the November 21, 2012 correspondence is included in Appendix 19.

NYCDPR prepared a Demarcation Layer Plan based on a comparison of final design grades and the top of waste elevations extrapolated from soil boring data. The Demarcation Layer Plan is included in Appendix C.4 of the 2013 Engineering Report (Appendix 20). Field verification that the demarcation requirements were being met was performed continuously and routinely by the IEM to confirm Permit compliance as outlined in the shaping layer material section above. Based on the data gathered from the earthwork analysis plans and the test pit excavations, actual areas requiring demarcation layer were identified.

In instances where NYCDPR felt that the installation of demarcation material was not necessary, test pits were excavated to four feet below grade, spaced 50 feet apart, to determine if there was more than four feet of clean shaping layer material installed over MSW. If it was determined via test pits that there was

more than four feet of clean shaping layer material present, demarcation material was not installed. The reasoning assumed a one foot thick cover layer installation and considered the March 9, 2011 NYSDEC/NYSDOH correspondence determining that demarcation layer was not required if the combined fill thickness above MSW was five feet or greater. The March 9, 2011 correspondence is included in Appendix C.3 of the 2013 Engineering Report (Appendix 20).

All areas with less than four feet of shaping layer material present that required the installation of demarcation layer material are identified on Figure SP-200 entitled "Demarcation Layer Plan". The limits of demarcation layer material, as represented on Figure SP-200, were located by the IEM using handheld GPS units at the time of installation, prior to cover layer material installation. Areas associated with the cart paths are also identified on Figure SP-200.

4.4.3 Cover Layer Material

Cover layer material was installed at the Site in accordance with the Permit. Special Condition 15(d) of the 2005 Permit required the following:

"The final placement (including topsoil), location, thickness, and detailed chemical limits of the final cover layers on the Site, including the community park and waterfront park, are subject to the specifications, directions and requirements determined by the NYS Department of Health (NYSDOH) to be applicable. It is the responsibility of the Permitees to obtain a written determination from NYSDOH.
The Permitees must provide the Department with a copy of NYSDOH's determination. No cover layer material may be placed on the Site, until the Department acknowledges receipt of NYSDOH's determination."

As required by Special Condition 15(d) of the 2005 Permit noted above, NYCDPR obtained such written determination from NYSDOH in a letter dated, August 2, 2006 included as Appendix C.3 of the 2013 Engineering Report (Appendix 20).

The NYSDEC's active recreational determination from July 28, 2009, required that NYCDPR install two feet of cover layer material and a demarcation layer throughout the Community Park. Soil probes confirmed extremely consistent and appropriate thickness of cover material throughout the Community Park and Golf Course.

For the Golf Course, the upper portion of the landfill was capped using Permit specified criteria for sand and/or topsoil material formally referred to as cover layer material. A sand material was used for the majority of the golf course cover layer with topsoil being used primarily in tree planting pits and other landscaped areas. The IEM observed capping activities associated with the cover layer material including, inspecting cover material at each source site and at the Site per the conditions set forth in the Permit and supporting reference documents. After installation of the shaping layer material and demarcation layer (as required), the cover layer material was installed. The IEM confirmed the depth of cover layer material placed on the Site in accordance with the Permit at the time of installation.

A minimum of one foot of cover layer material was placed over top of the shaping layer material consistent with the passive recreational determination at the Golf Course. Cover layer material was installed by means of either transporting stockpiled material that was previously inspected and approved by the IEM or by directly dumping the material in the work areas as it was imported to the Site. The material was then spread by bulldozers and specialty golf course shaping equipment. The IEM confirmed the depth of the cover layer material placed on the Golf Course area utilizing a graduated rod as the material was being installed.

Confirmation of the minimum of one foot of cover layer material installation on the Golf Course is included on Figure SP-200 entitled "Cover Layer Material Plan". This plan identifies the DOR report numbers and corresponding dates for when the IEM witnessed and measured a minimum of one foot of cover layer material being installed on the Golf Course. The cover layer material depth checks were completed by the IEM using a graduated rod to confirm that the final placement consisted of a minimum of one foot of cover layer material soil. Individual DORs documenting the IEM's observations are included in Appendix 5.

In addition to the IEM checking and confirming the minimum one foot thickness of cover layer material immediately upon installation, post-construction soil probes were completed in March 2015, and dug by hand to confirm the depth of cover layer material throughout the Golf Course. Prior to March 2015, once the site construction concluded and the vegetation was established throughout the Golf Course, an aerial survey (including topography) was performed by LAWS in Spring/Summer 2014 and provided to NYCDPR and subsequently to the IEM in December 2014. In addition, NYCDPR performed a Golf Course wide ground topographic field survey.

The IEM was provided with electronic AutoCAD files of both surveys that captured the final topography of the cover layer material surface. The IEM performed a cut/fill analysis using Civil 3D software by comparing each cover layer material survey to the previously generated shaping layer material surveyed surface (also field surveyed by NYCDPR). Based on a review of the cut/fill analysis results and subsequent discussions with the NYSDEC and NYCDPR, it was agreed by all parties that both survey results were inconclusive, and could not accurately reflect the thickness of the cover layer material on the Site. Since the 12-inch minimum cover layer material thickness could not be verified via survey, NYCDPR then moved forward with field investigations using handheld soil probing equipment in order to perform comprehensive Golf Course wide physical confirmation depth checks.

The IEM was on-site and witnessed all soil probes, and documented all soil probe locations and depth results using handheld GPS equipment. The soil probing work was completed by NYCDPR staff. Soil probe fieldwork commenced on March 11, 2015 and was completed on March 27, 2015. Soil probes were initially completed on a 50-foot grid but were increased to a 100-foot grid on March 19, 2015 based on the satisfactory initial field results and approval by the NYSDEC in an email dated March 18, 2015 (see Appendix 19 for the March 18, 2015 email).

Refer to Figure SP-003 entitled "Cover Layer Material Soil Probe Investigation Results" which illustrates the results of the soil probing investigation. The final results of the soil probing investigation were reviewed on-site with NYSDEC staff, and the NYSDEC required that NYCDPR correct an area in the vicinity of the Hole 14 Green, which resulted in cover soil layer thicknesses of 3 inches and 6 inches. NYSDEC staff stated that this area would require reconstruction in order to satisfy the intent of the 12-inch cover layer material thickness as required by the Permit. NYSDEC staff concluded that the remaining soil probe results sufficiently addressed the intent of the 12-inch cover layer material thickness Permit requirement, and the remaining Golf Course area did not require any further reconstruction or evaluation of the cover layer material.

As per the IEM's Daily Observation Reports, the IEM witnessed the subsequent field delineation the of the area deemed to be of insufficient cover layer material thickness (i.e. the area adjacent to Hole 14 that resulted in cover layer material depths of 3 inches and 6 inches via soil probe results) during the week of April 20, 2015. This was performed by using the soil probe equipment to accurately delineate the limits of the area having a cover layer material thickness of less than 12 inches, and resulted in an area of approximately 6 feet by 12 feet.

On May 4, 2015, the IEM observed the Trump Organization construction crew over-excavate the previously delineated areas that had less than 12 inches of required cover material, adjacent to Hole 14 Green. The area was over-excavated approximately 24 inches below grade, and 24 inches of Cover Material was backfilled and graded over the excavated area. The excavated area was GPS mapped using a hand held Trimble device. Excavated surplus shaping material was transported to a shaping stockpile adjacent to Pond P2.

Similar to the Golf Course, the 24 inch minimum cover layer/shaping layer materials thickness could not be verified via survey. NYCDPR moved forward with field investigations using soil probes in order to perform physical confirmation depth checks. The IEM was on-site and witnessed all soil probes, and documented all soil probe locations and depth results using handheld GPS equipment. The soil probing work was completed by a NYCDPR subcontractor. Soil probe fieldwork commenced on May 18, 2015 and was completed on May 22, 2015. Soil probes were completed on a 50-foot grid. Refer to Figure SP-004, entitled "Community Park Cover/Shaping Layer Material Soil Probe Investigation Results", which illustrates the results of the soil probing investigation.

4.4.4 Greens and Tees Mix, Bunker Sand

Consistent with Section 2.1.2 "Cover Layer Fill Specifications" included in Volume #2 of the 2005 Engineering Report, environmental testing was not required, consistent with cover layer material requirements for the green and tees mix or bunker sand, and therefore was not completed for these materials.

On June 8, 2012, the NYSDEC confirmed that the sand material used for the tees, greens, and bunkers should not be counted towards the Permit stated allowable cover soil maximum. A copy of the June 8,

2012 correspondence is included in Appendix 19. NYCDPR's consultants estimated the required sand material volumes as follows: Tees and Greens (24,705 cubic yards), Driving Range Tee (3,025 cubic yards), and bunkers (6,076 cubic yards). Since these values were estimated, calculated by NYCDPR's consultants, it shall be noted that actual installed volumes may have fluctuated from the volumes identified above. This information is based on an email from Joe Voss to Faisal Choudhury on June 13, 2012.

Special Condition 15 of the 2005 Permit did require that the tees and greens mix imported to the site to be tested as per material testing requirements to meet the project technical specifications. Fertilizer and soil amendments could be applied on the tees and greens mix after spreading to construction specifications and finally grassed, as per the specifications provided by the agronomist.

4.4.5 Topsoil

Topsoil was used on the Site, in lieu of sand, specifically in tree planting pits and other landscape areas. Any topsoil that was imported and used on the Site was approved and met all of the cover layer material Permit requirements including the specification included in Exhibit C of the 2005 Engineering Report.

4.5 Meetings

On a bi-weekly basis during construction of the Community Park and the Golf Course, progress meetings occurred in the NYCDPR field office trailer on the Site. Various representatives from NYCDPR, Trump, LAWS, KSE, TRC, the IEM, and appointed representatives attended the meetings to discuss construction progress, current issues, and scheduling.

Available meeting minutes from construction progress meetings are attached as Appendix 9.

4.6 As-Built Survey, Record Drawings, Deviations from Approved Design Plans

This section deals specifically with as built drawings, final record drawings and deviations that occurred during construction. It is further broken down into work performed in the Community Park, the Golf Course, the Waterfront Park, deviations to NYSDEC Permit as it pertained to fill importation quantities, modifications to the landfill gas vent trench and additions to the golf course made by the concessionaire.

4.6.1 Community Park

The Community Park project consists of the following features and was designed by Thomas Balsley Associates:

- A softball field and smaller peewee/T-ball field with new drainage
- Two basketball courts
- New formalized park entrances
- Play areas for tots to pre-teens
- Seating areas and lawn for non-programmed activities
- A path and trail system that winds throughout the park
- A detention pond which collectives drainage from the eastern part of the golf course
- Foot bridges
- Shade structure

- Timber deck overlook
- Herbaceous plant materials
- Temporary below grade utilities to service a standard DPR Comfort Station (constructed under a separate contract),
- Below grade infrastructure to service Community Park lighting and fountains,
- Modifications to the Landfill Gas Vent Trench system
- New perimeter fence.
- New Comfort Station. (The comfort station construction is still in progress and expected to be completed in the Fall of 2015)

Deviations to the Community Park project consist of the following:

- The reconfiguration of the location of the perimeter fence on the south and west sides of the Community Park reducing the area of the site[1].
- One missing Vertical Landfill Gas vent just south of the most southerly entrance to the park.
- The relocation of a drain inlet in the softball field[2].
- The utilities servicing the Comfort Station are constructed as of December 10, 2015,[3] which represents the date in which the sanitary sewer connection was completed.

It is noted that below grade features were not examined during a NYCDPR field inspection conducted during July 2014. Community Park as-built information and documentation are included in Appendix 16 and includes a November 18, 2011 letter from LAWS indicating that the Community Park construction was completed as designed (exclusive of the comfort station) as well as three as-built drawings associated with the pond liner construction dated July 14, 2010 as prepared and certified by LAWS (Appendix 16).

4.6.2 Golf Course

The Ferry Point Park Golf Course project consisted of the following:

- A Maintenance Building with an active sub-slab depressurization system.
- A comfort station with as active sub-slab depressurization system, which includes a snack bar.
- A unenclosed rain shelter
- An 18 hole links style golf course
- A practice area
- Fill and topsoil importation
- A site drainage system and retention ponds
- A new irrigation pond and irrigation system
- All the necessary plumbing, electrical, gas, environmental monitoring and control devices for the golf course, maintenance facility and comfort station
- Roadway and parking area construction, paving, striping and drainage in compliance with the DEC permit
- Perimeter fencing and appropriate landscape screenings.

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[1] See App. 4; Community Park Contract Drawings; Thomas Balsley Associates Constr. Dwg L1.3 & L1.6 dated 03/06/09, revised 09/30/09.

[2] See App. 4; Community Park Contract Drawings; Thomas Balsley Associates Constr. Sketch dated 2/11/09

[3] See App. 4; Community Park Contract Drawings; Thomas Balsley Associates Constr. Comfort Station Dwg P-2 dated 1/26/09

Deviations to the Golf Course consist of the following:

- The active venting system around the Irrigation Pond was converted into a passive system. Fiberglass manholes were changed to concrete manholes and additional piping added around the entire pond. Six (6) vertical passive vents were added, one at each box location and installed October 2014, following NYSDEC discussion. On May 22, 2015 the NYSDEC approved the removal of vertical passive vent #5 thereby leaving five (5) vertical passive vents in operation.
- Modifications to the grading plan did occur as well as minor modifications to drainage and are documented in "Ferry Point Site" visit notes produced by "Nicklaus" from 2010 through 2013 and as shown on supplemental design drawings. (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015 and revised 4/23/2015)
- Retention ponds were lined as per NYSDEC requirements as shown on supplemental design drawings. (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015 and revised 4/23/2015)
- The golf cart path surface material was changed to asphalt and additional drainage was added as shown on supplemental design drawings. (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015 and revised 4/23/2015)
- The Clubhouse Parking Lot paved footprint was increase/installed as per NYSDEC Consent Order # R2-20100521-172. The Clubhouse Parking Lot was completed in May 2014 as shown on supplemental design drawings. (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015 and revised 4/23/2015)
- The irrigation pond pipe penetrations were revised as shown on supplemental design drawings. (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015 and revised 4/23/2015)
- The Turf Nursery was revised as shown on supplemental design drawings. (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015 and revised 4/23/2015)
- The active venting system inside of the Comfort Station was modified as per Integral Engineering, Inc. design drawings. (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015 and revised 4/23/2015). System is functioning, and requires the installation of sensor components of the vapor detection system. Contractor procurement for the installation of the sensor components is in its final stage of approval. Implementation is anticipated by Spring 2016 and the final signed and stamped as-built drawing will be submitted to NYSDEC following prompt inspection of the installation.

4.6.3 Waterfront Park

Construction has not begun in the area designated "Waterfront Park".

4.6.4 Additions to the Golf – Concessionaire

The concessionaire running the Golf Course is the Trump Organization. Since in their possession (NYCDPR Use Inspections were held for various parts of the project from September 2012 through March 2014) the following additions/deviations have occurred (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015, revised 4/23/2015, 6/25/2015 & 7/13/2015):

- The construction of a Golf Cart Barn (currently under construction)

- The construction of a sign (currently under construction) and curb line realignment
- The construction of a temporary clubhouse including temporary utility services (trailers placed upon the asphalt parking lot)
- The construction of a "starter" kiosk including utility services as well as minor golf cart path widening around it.
- The construction of a clock.
- The construction of a weather vane/station.
- Minor irrigation changes.
- Additional planting along the perimeter fence line. Removal of the aluminum fence along the Waterfront Park and the Golf Course and the installation of a fiber optic sonar alert system in its place (installation of the fiber optic sonar alert system occurred from July 25, 2015 to August 19, 2015 and was witnessed by the IEM).

5 Environmental Monitoring

5.1 SWPPP

On November 20, 2003, NYCDPR received an Acknowledgement of Notice of Intent for coverage under SPDES General Permit for Stormwater Discharges from Construction Activity (General Permit No. GP-02-01), permit identification number NYR10D547, which transitioned SPDES General Permit coverage previously held under GP-93-06. On May 12, 2009, NYCDPR received an Acknowledgement of Notice of Intent for coverage under SPDES General Permit GP-0-8-001; permit identification number NYR10R112, which was maintained throughout construction completion. A copy of the SPDES General Permit Acknowledgement and Notice of Intent are included in Appendix 1.

In compliance with NYSDEC guidelines for State Pollution Discharge Elimination System (SPDES) General Permit (GP-0-8-001) and General Condition 9 of the 2014 Permit, a Storm Water Pollution Prevention Plan (SWPPP) was implemented during the course of construction at the Site. All work was completed in compliance with the final SWPPP, dated December 22, 2009.

In addition to intermittent IEM SWPPP inspections, NYCDPR representatives also performed SWPPP inspections. NYCDPR performed bi-weekly inspections and associated Site Assessment Reports (filed at the FPP document repository) to ensure compliance with Permit requirements. SWPPP inspections were carried out through the spring of 2014. The SPDES permit will remain effective until completion of ongoing construction including the Golf Course Clubhouse.
Every possible action was taken to avoid non-compliance, such as turbid water leaving the Site. The following is a list of permanent features that were installed at the Site, beyond the SWPPP requirements:

- French drain at the eastern, western, and northern perimeters of the Site to control surface flow of stormwater;
- All ponds were lined, to prevent stormwater infiltration into the solid waste layer; and
- A new trash rack and rock outlet dam at the 60-inch Whitestone sewer outfall draining to the East River.

5.2 Landfill and Off-Site Gas Monitoring

The entire Ferry Point Site is equipped with a Landfill Gas (LFG) Management system to cover both on and off site monitoring. The systems purpose is to allow use of the site in its intended purpose as a golf course without having the occupants on the site and users of the golf course being exposed to harmful conditions that would be the direct result of the existence of the landfill. The Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East Bronx, New York May/August/Oct 2013, referenced the summary of prior LFG efforts. These included preparation of a model for surface methane emissions using data collected during 2009 and 2010. Data for these studies also included a health impact analysis that is summarized in this final Certification Report and is attached with the 2013 Supplemental Engineering Report as an Appendix 20.

The generation rates for LFG were estimated as far back as 1999 using EPA Guidance documents and the results indicated the LFG rates for Ferry Point were consistent with municipal solid waste landfill rates for a facility of this era and overall age. The analysis in 2010 also evaluated hazardous air pollutants (HAPs) in areas of the course as well as community park. In 2011, NYSDEC concluded that there was not an ambient air impact from gas vent emissions and that there was no health impact in the park. This was a major component that allowed the discontinuation of monitoring the passive vents installed in 12 locations throughout the park. Monitoring of the passive vents is included as Appendix E.3 in the Supplemental Engineering Report (Appendix 20).

The following were included as components of the Ferry Point Park Landfill Gas Control System:

1. Irrigation Lake Venting System-Passive
2. Water Quality Ponds Venting System-Passive
3. Sub-Slab Depressurization Systems
    a. Maintenance Facility-Active
    b. Comfort Station in Golf Course-Active
    c. Comfort Station Community Park-Active
4. LFG Venting for subsurface utilities entering enclosed spaces-Passive
5. Perimeter Vent Trench-Passive
6. Perimeter Vent Trench/East-Passive
7. Golf Course 25 In-ground vents-Passive

The Ecology & Environment 2011 Landfill Gas Management Report describes in detail the landfill gas generation rates, composition, migration pathways and methods for diffusion (Appendix 20). It also discusses both the horizontal and vertical migration of LFG across the landfill. Figure 3-1 in the LFG Report (MSW Fill Progression Map, March 11, 2015) shows the historical fill progression that occurred over the landfill lifespan between 1951 to 1959 and how significant areas of open water was filled in over the life of the landfill .

As far back as 1999, Landfill Gas generation rates were noted to be low and in the range of .00004 cubic feet per minute per square foot or about 2cfm per acre of surface area. These generation rates provided discussion and recommendation for installation of an active system beneath planned structures. A 1999 Report referenced in the Ferry Point East Landfill Gas Management Plan did not recommend installation of active venting systems in open spaces with the exception of specific turf grass areas. The 1999 Report also included numerous LFG Control Systems including; interceptor and venting systems, impermeable liner systems for irrigation ponds, soil plugs and conduit seals for underground utilities that enter buildings (Appendix 20).

The main facility LFG management structure was the perimeter vent trench installed in 2001. The specific purpose was to prevent offsite migration of landfill gas. This was designed, and installed with oversight by TRC. The entire trench was installed along the eastern site boundary and allowed a gas barrier to be present between the site and the neighboring residential homes. Construction included extending the trench from the water's edge at Emerson Avenue along Balcom Avenue and the site boundary, approximately 1050 ft. past the intersection of Schley and Buttrick Avenues.

Monitoring of the venting trench began using a number of wells that were installed along the trench. In 2001 monitoring performed after the trench was installed indicated there was an off-site source of methane. This was identified by AKRF and further evaluation along the venting trench indicated there were additional off-site LFG readings. Test pits were identified to have MSW beyond the site and this was one potential source of the elevated readings. The second was the historic filling in the northeastern portion of the site on a former tidal or marsh wetland. No methane was reported in ambient air at that time and the source of methane was concluded by AKRF to have originated from an off-site source.

The initial facility LFG system was proposed to be installed as an active system. Following the 2009 landfill permit modification submittal, the conceptual passive LFG system was updated to include all areas not covered by enclosed structures. In summary, the passive LFG system meets a number of historic reports including the 1999 EAS (AKRF), 2002 referenced in the Landfill Gas Management Plan (Appendix 20) and Volume #2 Application for Modification to the Solid Waste Permit Engineering Report, June 30, 2005, Appendix 20) and was approved under the 2005 NYSDEC Part 360 permit (Appendix 1). In the 2009 DEC Part 360 Permit Modification Request (November 25, 2009, Appendix 20), an active system was recommended. Supplemental Site investigations and extraction testing was performed by TRC Engineers in the period between 2009 and 2010. This information was reviewed by Walsh Environmental Scientists and Engineers in 2010 (Ferry Point Landfill Gas Report, November 2010, Appendix 20). The resulting analysis and evaluation concluded that the Site was able to be operated safely with a passive venting system which was consistent with the 2005 Permit.

The July 2000 NYSDEC Part 360 Permit (Appendix 1) and February 2002 Part 360 Permit Modification (Appendix 1) approved by NYSDEC included numerous conditions related to material importation and capping. The permit was also specific in requiring the installation of a series of perimeter-based landfill gas monitoring wells. Twenty-one (21) perimeter monitoring wells were initially recommended and a final total of 25 were installed at intervals of approximately 250-300 ft. around the perimeter (PZ-01 to PZ-25),

(SH-21 Groundwater Monitoring Well Construction; November 8, 2011. The perimeter for purposes of these wells would be the edge of the golf course portion of the landfill and the adjacent residential neighborhood. An additional 56 monitoring points were required to be installed as the main component of the off-site monitoring network. The off-site wells were referenced in the modified 360 permit. The combined perimeter and off-site wells comprise the full gas monitoring system for the golf course fill area.

Modifications to the overall Landfill Gas Collection systems were based on and included the following:

- In 1986, a passive venting system was reportedly installed with outflow venting. In 2002, there was a plan presented by TRC to perform test pits in order to identify this system and more specifically, to identify the outflow vent location and to determine if connective piping was functioning. The system was never located and has not been able to be incorporated into any LFG system.
- 2005 Engineering Report Vol. 1 (June 30, 2005, Appendix 20) included several LFG components and systems that were aimed to maintain a similar program to the 1999 proposed EAS. This included active systems for all enclosed buildings and sealed penetrations for utility connections. All perimeter and off-site monitoring wells would be monitored bi-weekly for both methane and oxygen. Monitoring showed several points off-site with elevated levels indicating a source that was also located beyond the site. Groundwater was monitored on a monthly basis to evaluate water level in concert with the LFG trench elevation. Irrigation Lake and ponds were recommended to have gas-venting layers and liners installed at their base to allow for collection and discharge of gas collected from beneath them. Specific instances of impermeable barrier installation could be noted where turf health was necessary to be maintained. Most specifically, the 2005 Report did not recommend LFG venting systems in open space areas (Appendix 20).
- A 2009 Extraction Pilot test was conducted to better understand generation rates for on-site LFG. The interpretation of the results of this test prompted a proposal for a low-flow active LFG system that covered the overall golf course. The reason referenced in the Supplemental Engineering Report for the Solid Waste Facility Permit Application, October 13, Appendix 20) was that methane levels in the subsurface was not expected to be able to be made safe by the opening of the golf course. The irrigation pond system was also included in the plan to be connected to the landfill venting system. One caution in this report was the potential for pulling large volumes of ambient atmospheric air into the subsurface which could cause fires and explosions. The system included some forty control zones of extraction wells, green and tee collection piping all connected to vent flares with in-line fans. This system was never instituted.

Modifications to the gas monitoring system included the design and installation of a landfill gas (LFG) vent trench along much of the eastern park boundary. This trench extends from the water's edge at the foot of Emerson Avenue, along the entire length of the site boundary of Balcom Avenue and along Schley Avenue. The trench continues approximately 1050 linear feet to the west past the intersection of Schley and Buttrick Avenues. The trench totals just over 1 mile in length (5350 feet) and construction began in May 2001 and was completed by the end of December 2001. This trench does not cover the entire upland

perimeter. The remaining portion was covered with an existing trench along Miles Avenue. This was planned to remain following the golf course development and provided an effective cutoff for off-site migration in that direction. The final construction included the trench and drainage.

The LFG passive vent trench was designed to intercept landfill gases (primarily methane) originating and leaving the site. The limits of the municipal solid waste extend beyond the park boundaries and the LFG passive trench was not designed to facilitate collection of or negate the impact of gas generated from that material. The trench presents a sound engineering control that will intercept gas migrating through preferential pathways and other routes of least resistance that intersect it. The LFG trench acts to briefly capture LFG moving out of the park and then allows it to vent to the atmosphere. The trench is designed to have a very high relative permeability with increased porosity in comparison to the landfill waste material. As gas enters the trench is can easily and rapidly mix with ambient air in the pore space and then rise out where it can be discharge to the atmosphere. One of the key components of the trench is that the bottom remains into the water table. As long as the bottom of the trench is submerged in the shallow water table, LFGs at the Park cannot migrate beneath and beyond the trench.

The 25 perimeter monitoring wells (also referred to during the construction as piezometers) were located immediately adjacent to the LFG passive vent trench and along the site perimeter adjacent to Miles Avenue. The specific purpose was to provide consistent data comparing the trench bottom and top of the water table to identify locations where the water table may have dropped below the trench, thus indicating the ability for the trench to intercept and capture all LFG along its entire length.

The LFG passive vent trench was constructed of a geotextile wrapped stone envelope that extends from .5 ft. below the ground surface down to a depth of approximately 3 ft. below the surface of the water table. The upper .5 ft. of the trench has a loose covering of wood chips to allow LFG that has entered the trench to exit and discharge to the atmosphere. There were areas where the final depth of the trench only reached to 1 ft. below the water table. These locations were caused by an unstable sidewall after the groundwater table was reached. The trench was also constructed with horizontal perforated 4 to 6 inch polyethylene tubing placed beneath the wood chips near the top of the stone backfill. The horizontal tubing was installed to allow connection to vertical risers in the event the trench surface is covered at some point in the future with an impervious surface.

LFG monitoring has been performed in accordance with Special Condition 30 from the modified Solid Waste Permit (Response Action Plan, December 10, 2002, Appendix 19). This included monthly monitoring during construction in order to determine if water levels were maintained above the bottom of the trench. Specific protocols were required to be performed in the event groundwater was determined to be below the bottom of the trench.
The following Action Plan items were incorporated for low groundwater levels:

1. Evaluate methane concentrations in nearby perimeter methane monitoring wells and semi-permanent monitoring points. If methane concentrations measured are below site-

specific action levels (25% LEL), the normal frequency methane monitoring will continue and the groundwater level measurements will increase to bi-weekly.

2. When groundwater levels increase to fall back into the envelope of the recovery trench, measurements will return to monthly.
3. If groundwater remains below the trench bottom for one additional bi-weekly monitoring event but nearby well methane levels remain below the action level, groundwater monitoring will continue until such time as routine monitoring can be reinstated.
4. When groundwater is measured below the trench and methane levels are at or above the action level, both groundwater and methane measurements will continue at bi-weekly frequency.
5. If both groundwater and methane remain below the trench bottom and above the action level (respectively) for a second consecutive week, a recommendation for further action will be made to NYSDEC.

During the 2014 Solid Waste Facility issuance several references to continuing monitoring and the documents that would be covered under were made (DEC No. 2-6006-00014/00013 (2-6006-0014/00016 Permit Issuance – Solid Waste Management Facility (Tidal Wetlands), May 21, 2004, Appendix 1). The Ferry Point Park East Post Construction Custodial Care Plan is specifically called out as the governing set of protocols for this. Monthly LFG vent trench monitoring is to be performed during the duration of the permit (October 2013, Appendix 20). Additionally under Special Condition 25 there is continued monthly inspection required for the gas venting trench integrity as well as mulch cover. All repairs are required to be made within two weeks and therefore prior to the next inspection. The mulch cover is required to be replaced each spring. Trench maintenance is also described in the Supplemental Engineering Report, Volume 3, Appendix F (Appendix 20).

Landfill methane monitoring has shown from collection of data within the site to be above general action levels of 25%LEL as well as LEL from within the MSW layer. The resulting measurements between 2008 and 2009 supported the hypothesis that methane was generally present throughout the entire MSW layer rather than just from individual locations. Measurements from the shaping layer above the MSW indicated that concentrations decline rapidly once out of the fill layer. These measurements appear to present a better picture of the landfill gas presence and production because the extraction test performed in 2009 referenced a 2003 Journal of Air &Waste Management with fatal flaws for infiltration of atmospheric air into the landfill. In addition, the 2009 extraction test did not reportedly follow the EPA testing methods and would then incorrectly estimate the presence and production of methane. Testing reportedly used differential pressure at surrounding test wells. EPA specified determining radius of influence based on absolute pressures under static and active extraction conditions. EPA measures ambient air intrusion by percent volume of nitrogen and the testing identified ambient air intrusion by percent oxygen. The conclusions that were reached at that time indicated that atmospheric intrusion noted during the testing would have caused the LFG extraction rate to be significantly higher than actual LFG generation rates within the area of the pilot test. If the entire LFG generation rates were then based on pilot test results, the resulting estimate would be potentially far over the actual LFG generation. Historic data from monitoring indicated that LFG generation rates had sharply declined since the initial

2000 measurements began. The reduction was referenced largely as readings from over 100% LEL to non-detect. While there were a few exceptions, this overall reduction was credited to, among other things, the perimeter venting trench and overall LFG decline. One specific area in the vicinity of MW-0 found to continue to present elevated readings was believed to be impacted from an off-site source.

The Ferry Point Landfill Gas Report (November 2010, Appendix 20) was a summary of various testing across the landfill including flux chamber testing that was used to determine the surface emission rates from the overall landfill. The resulting emission rates were important in making the determinations for receptors and potential impacts of methane and hazardous air pollutants. During this review of testing data and as it was presented in several reports, no methane was detected in field measurements from any of the sample locations. This lack of detectable methane was attributed to rapid attenuation of methane as it passed from the MSW into the shaping material and out into the atmosphere. Hazardous air pollutants in the form of certain VOCs were detected in flux box sampling but all below the reported standards or at levels similar to those identified as background.

Testing within the Community Park was also conducted and methane was also not detected in flux box testing indicating it is not emitted at the ground surface at concentrations that are measureable. This meets NYCRR Part 360 criteria. Measurements from within the top 2 ft. of the shaping material were below 25% of the LEL which also falls within the NYCRR Part 360 requirements for on and off-site structures. Perimeter methane was below Part 360 criteria with the exception of the vicinity of MW-0 along Buttrick Avenue where methane was above 100% LEL. This particular area was beyond the site and consisted of early tidal marsh and pre-1945 MSW filling that is believed to be the contributing source of methane. All measurements from the Community Park vents were below ambient concentrations and well below NYSDEC standards indicating no impact above public exposure thresholds in the vicinity of the vents (Ferry Point Landfill Gas Management Plan, October 2011, Appendix 20).

Modelling of the emissions over several efforts conducted between 1999 to 2010 showed that methane levels were very low and in locations where methane was identified, levels were expected to continue to diminish over time. In order to provide adequate ventilation for enclosed spaces and especially where there is a source of ignition (electrical connections or machinery), mitigation methods would be implemented including Sub Slab depressurization systems (SSDS) at each building. This was further described as conservative as methane concentrations exceeded LEL within the MSW layer back during 2008/2009 in TRC testing of the subsurface. Also during this same monitoring period, methane was not present within the shaping material above the NYCRR Part 360 limit of 25% LEL in any location of proposed buildings. Passive venting of the MSW was recommended as a precautionary measure where no buildings were planned and active venting below or within building footprints.

The Golf Course portion of the Site also includes a sizable irrigation lake and water quality ponds. The purpose for these water bodies covers two positive issues. The first is to help control and limit precipitation and infiltration through the cover material and into the solid waste and the second is to help collect water for controlled release and irrigation. Golf course ponds are typically used for storage and

irrigation regardless of the overall construction. The ponds and lake were each designed to be lined in order to contain as much runoff as possible making it available for irrigation. A gas transmission layer was constructed beneath the irrigation lake. This was connected to perforated piping installed around the lake. The 2009 Part 360 Permit Modification Request included Contract drawings showing this piping as a passive venting system surrounding the lake (Appendix 20).

Water quality ponds were proposed to be lined up to the permanent water level capacity with low permeability low density polyethylene (LDPE) liners with the incorporation of a passive venting system. Ponds where MSW was encountered within the excavation would be lined for the entire volume.

The smaller ponds have also been designed and constructed with a gas transmission layer to promote passive venting. This layer consists of permeable gravel and perforated collection piping extending beneath the ponds and exiting from vent stacks that extend above the breathing zone. The drawings and specifications for the water quality pond liners and passive venting systems were included in the Supplemental Engineering Report Appendices (Appendix 20).

The Community Park portion of Ferry Point Park is located along the northeastern side of the site. This includes walking paths, open space and a single comfort station structure. The LFG components of the Community Park portion consist of 12 LFG vents and an active sub-slab depressurization system beneath the comfort station. Sampling and monitoring of the vents has shown that since at least 2011 there has been no measurable flow in the vents and detectable methane in 3 of the 12 vents. Ranges of methane were between 7.5% to 100% LEL as referenced in the 2011 Ferry Point Landfill Gas Management Plan (Appendix 20).

Twenty-five stand-alone vertical passive vents were installed across the golf course and twelve passive vents were installed in the Community Park. The total area not covered by buildings and water features is approximately 190 acres and the ratio of vents per acre is one per five acres. A greater ratio was applied to the community park which has twelve passive vents in open spaces. All landfill and community park vents operate based on changes to water level, atmospheric pressure and also production of landfill gas. Gas can move through the fill material to a point where it is able to be removed through a vent. Additional smaller gas volumes can move upward into the shaping material to be passed along the surface interface. Based on readings, these concentrations are both low and rapidly diffused indicating the overall volume is much lower.

Following the revision of the active venting proposal for the entire Site, the enclosed buildings and structures were left with the earlier requirement for active venting systems. This was required due to the explosive and accumulating nature of methane and other oxygen displacing gases that exist in landfill conditions as well as being precautionary to prevent the potential of accumulation of explosive gases in these locations. In order to protect occupants and visitors of enclosed structures from accumulation of LFG, active venting of the sub-slab area was recommended. The active sub-slab systems prevent accumulation of gas by actively removing it to the atmosphere and increase the flow of air beneath the buildings. This creates a change in pressure from beneath the slab and the inside of the building which

prevents LFG from entering the building in its more concentrated form. Once LFG leaves the confined space from beneath the landfill and mixes with ambient air, the concentrations are rapidly diminished to levels that are not detectable above background.

The three enclosed buildings (maintenance and two comfort stations) located on the Golf Course and Community Park were required to have SSDS incorporated into the slab design and foundation plan.

Two initial buildings within the golf course (maintenance and comfort station) and one in the community park (comfort station) were recommended to be outfitted with active sub slab venting systems. The maintenance building and comfort station in the golf course and comfort station in the Community Park were each proposed and were outfitted with an active SSDS. The designs were initially submitted in the 2009 DEC Part 360 Permit Modification Request (Appendix 20). Operation and maintenance of the systems (once active) is provided in the Operations, Monitoring and Maintenance Plan and in the Post Construction Custodial Care Plan. Systems will have monitoring, notification controls and remote capabilities in order to allow monitoring of conditions.

Sub slab systems for the three existing structures on site function in a similar fashion by reducing the air pressure beneath the foundation and inducing a slight negative pressure. The negative pressure prevents upward migration, accumulation and infiltration of LFG into the aboveground space. Systems can incorporate varying designs in order to accommodate structural requirements, utilities and layout of the overall building.

The maintenance building and community park systems consist of more typical sub slab systems with perforated piping placed in the backfill material above the municipal solid waste but beneath the foundation slab. Piping is connected to a vacuum blower that exhausts the sub slab gas from a high single point into the atmosphere. The comfort station within the golf course uses a similar manner of equipment with the major difference being the foundation design was modified to include the creation of isolated vaults sandwiched between the lower mat slab and upper floor. No access can be made into those vault spaces and they are filled with low density foam. Vent piping was installed into the sealed vaults and the vapor extraction system effectively creates a higher vacuum (negative pressure) in this vault space than would typically be seen below an open foundation. The piping penetrated the floor in the main portion of the building and was extended into the attic where the blower was mounted. Exhaust was vented through the top of the roof in a dedicated stack. The system was installed in March 2015 and put in operation prior to opening the golf course on April 1, 2015. The comfort system details are also described in the deviations section of this report.

The Maintenance building was constructed with a pile supported slab that covers the entire footprint of the building. The system was constructed as shown on drawings X-001.00 through X-006.00 (Contract drawings for: Construction of a Maintenance Building, A Comfort Station, and One Rain Shelter Within the Ferry Point Golf Course – Contract No. X1256-209M, November 11, 2011, Appendix 4). Prior to pouring the slab, the existing ground surface was prepared with geo-textile fabric, a minimum 12 in. layer of aggregate that is gas permeable to allow flow from all areas beneath the slab into the collection piping,

rigid insulation all covered by an impermeable barrier such as liquid boot or other equivalent. Liquid boot and all barriers used are compatible with the known and identified volatile organics identified at the site. Liquid boot was applied to provide a 60 mil thickness. A special capping material was also placed above the liquid boot to protect it from perforations when the rebar reinforcing rods were set in place. Six inch dia. PVC piping was installed beneath the center of the Maintenance Building floor and this was connected to a vertical riser that would exhaust through the roof. The blower was located as the piping exited the slab into the building and exhaust extended up through the roof. The system was combined with combustible gas meters located in each of the occupied spaces of the building that monitor the atmosphere in each area and are connected to a central alarm. Sub slab monitoring points were also installed along the length of one side of the building to allow for sampling. Each point was installed through the slab into the permeable aggregate and the penetration through the slab was sealed. This system was operational prior to the opening of the golf course as the building was being occupied prior to opening of the golf course.

The system in the comfort station at the Community Park was installed in a similar fashion with a smaller footprint building. This system was a single length piping system installed beneath the foundation using the same construction layering as the maintenance building. The blower and equipment has been completed and the system not yet initiated as that area is not currently open. The system is expected to become active in the very near future.

The comfort station within the golf course was also outfitted with an active system but the slab design for this building was modified so as not to require pile supports. This foundation design included a vapor barrier placed on the prepared subgrade. No MSW was exposed and the fill beneath the building was consistent with shaping material consisting of sand and gravel. A mat slab that was 1.5 ft. thick was poured over the vapor barrier and then 4 ft. vertical walls were formed on the slab to cover the perimeter as well as divide the slab into 4 roughly equal sections. The inner sections of the slab were then filled with solid foam up to just below the top of the walls. Six inch PVC piping similar to that used in the maintenance building sub slab was used and extended to the outer two segments. A vertical riser penetrated the floor inside of the building and was extended up into the attic space where the blower was located. The blower exhaust was directed out of the roof through a vent. The system was designed to create and maintain a lower pressure vacuum on the entire four-chamber sub slab area in order to prevent any sub slab gas from accumulating within that space. Pressure testing of the entire area showed that negative pressure was able to be generated and maintained between the mat slab and floor of the comfort station. This system was installed and began operating prior to opening of the golf course and occupation of the building.

Additional controls installed within the buildings included soil/bentonite collars around utilities servicing the buildings. Foundation penetrations were sealed with these engineering methods to prevent infiltration both into the void spaces and up through foundation slabs where utilities are installed. Additionally, soil/bentonite collars were installed in utility corridors where permeable pipe bedding was used in order to prevent LFG from migrating laterally. All conduit and utility penetrations into floor slabs

were also closed with soil/bentonite seals to prevent those corridors from acting as preferential pathways for LFG migration up into occupied spaces.

The Community Park Comfort Station was constructed in an area of MSW at shallow depths below grade and within the foundation envelope. The foundation was designed to incorporate piles for slab support. All utility trenches that were excavated to the building were installed in either shaping material or if MSW was encountered, it was over excavated and the trench backfilled with granular fill to allow all utilities to be place on bedding that did not contain MSW. During excavation, short duration and dewatering was occasionally necessary. Any water removed during dewatering was pumped a short distance away into existing trenches or other locations.

Off-Site monitoring for methane has been conducted back to the early 2000s. Probing was the primary early monitoring and assessment method. Probes were historically located on Schley, Buttrick, Balcom, Miles and Emerson Avenues. Since 2002, concentrations of methane have been lower than the LEL and this has been used to present the lack of significant source of methane at these off-site sources. In 2002, the Methane Monitoring Study (AKRF) identified the presence of buried MSW beyond the site boundaries. In addition to MSW, soils were logged and identified as fine organic deposits representative of the historic marsh deposits.

OM&M incorporates criteria from NYCRR Part 360-2.17(f) including the following:

- Concentrations of explosive gases must not exceed 25% of the LEL in on-site and off-site structures.
- Concentrations of explosive gases must not exceed LEL at the property boundary.

These requirements are being used to guide mandated additional monitoring under Special Conditions and to govern the construction of all future buildings. Several Special Conditions were included within the 2005 Part 360 Permit (Appendix 1) and are incorporated into regular OM&M and will continue moving forward until they are recommended for elimination as part of the permit.

Special Condition 26 includes the monthly monitoring and inspection of gas venting trenches to evaluate the mulch cover material. This will occur each spring following the winter months.

Special Condition 30 includes the monthly groundwater gauging in the perimeter piezometers in order to evaluate the depth to groundwater with respect to the bottom of the gas venting trench. This measurement will continue through the construction process and that period will be considered complete upon the approval of this Construction Certification Report. The monitoring specifies that id groundwater is measured below the bottom of the trench, DPR will implement Special Conditions monitoring. This is further described below in 5.2.2.

Special Conditions 31 includes specific notification and frequency monitoring if groundwater is identified below the bottom of the trench or if LEL of LFG is noted in adjacent monitoring probes.

Special Conditions 32 and 24 include the bi-weekly monitoring of specific perimeter gas wells and on-site monitoring wells. Results of the monitoring will direct more frequent sampling or monitoring and when monitoring may return to the regular schedule.

Special Condition 37 includes bi-weekly monitoring of the off-site gas monitoring network and the results of this monitoring will direct more frequent monitoring or testing.
Additional parameters were added in 2011 by NYSDEC to include hydrogen sulfide, VOCs and carbon monoxide, all were to be reported in parts per million (PPM) and temperature/pressure.

Work that will continue following construction is included in the Post Construction Custodial Care Plan (Appendix 20). That document covers the efforts beyond this report in order to effectively monitor and report on post construction conditions under the Part 360 Permit.
Monitoring during the entire construction period has been performed in accordance with the Landfill Gas Monitoring Plan and the approval of this Report will serve to conclude all construction monitoring.

The most recent and final documentation submitted under this construction effort is the Ferry Point Park Golf Course Irrigation Pond Vent Boxes Monitoring Final Report submitted in May 3, 2015 (Appendix 20). This Report summarized monitoring data and piping/vent/vale configurations around the irrigation pond at the golf course. The overall purpose for the preparation of the Report was to present information to NYSDEC prior to this Closure Certification Report in order to gain approval to close and remove one vent from the golf course area at vent box #5.

The Report describes and presents the configuration of the piping surrounding the irrigation pond and that the removal of this single vent would not have a detrimental effect on the overall LFG system. The entire lop surrounding the pond collects LFG under the conditions that have been evaluated and calculated over the landfill and that appears to be less than one cubic foot per minute. Based on measurements from specific vent box locations within the overall loop, the LEL readings concentrations indicate two possible theories; that methane may be coming from possibly one area and then slowly migrating or spreading to one or two other vent box areas or it may be concentrated in one area and is also being generated at much lower levels from one or two other areas.

In either case, the volume and rate of methane being generated is similar to much of the remainder of the landfill and while this area has actual vent pipes, the remainder of the landfill is direct vented to the atmosphere through the shaping layer. Removal of the single vent at Vent Box 5 will not impact the collection of methane within the underground passive piping but will only eliminate one outlet location. The valve placement at each box allows for multiple vents to be open or combinations of vents to be either open or closed. In addition, sections of the piping around the irrigation pond can be isolated. There is no specific plan other than to remove the single vent from the overall system and this would not impact the passive systems ability to remove methane from the subsurface.

Landfill and off-site gas monitoring was completed as required by the Permit Special Condition X during construction. The IEM accompanied American Environmental Solutions (AES) during landfill gas

monitoring activities at on-site and off-site locations during the course of construction. Monitoring results were transmitted to the NYSDEC by AES after monitoring was completed and monitoring reports were included in the bi-weekly FMRs for the corresponding periods. Landfill gas monitoring results are attached as Appendix C in each the FMRs which are included as Appendix 6. In addition, refer to Appendix 15 for the spreadsheet compilation of all LFG monitoring results to date in tabular and graphic format.

5.2.1 Bi-Weekly

Methane gas monitoring of the entire site was conducted on a bi-weekly basis. Results of these monitoring events were forwarded directly to the NYSDEC once they were available and summarized in each bi-weekly FMR (Appendix 6). In addition, refer to Appendix 15 for the spreadsheet compilation of all LFG monitoring results to date in tabular and graphic format.

A review of the historic field data associated with the perimeter LFG vent trench monitoring program from 2001 to present was conducted to evaluate LFG trends at the Site relative to the perimeter passive LFG control (Ferry Point Park East Post Construction Custodial Care Plan, October 2013, Appendix 20) and showed the following:

- After the installation of the vent trench in 2001, methane levels in the vicinity of the LFG vent trench tended to decrease significantly within a year in most LFG monitoring wells;

- Methane levels remained relatively low and below regulatory limits from 2002 through 2004, except for a few wells that sporadically exceeded the regulatory limit;

- In 2005, the measured methane levels tended to increase, likely due to the installation of more reliable monitoring points (new monitoring points and repaired wells); and

- Results from 2008-2011 generally indicate relatively consistent levels of methane, with certain limited sporadic increases above regulatory limits.

Methane levels increased for several on-site perimeter wells, on-site interior wells and off-site semi-permanent wells located during the construction period between 2010 and 2014, especially for the wells located in the northeast portion and south portions of Ferry Point Park; however, the levels were significantly lower than the beginning of the monitoring program, and the levels decreased to zero by 2015 with the exception of two on-site perimeter wells (MW-14 and MW-15) located in the southern portion of the golf course, three on-site interior monitoring wells (MW-0, MW-4 and MW-19), and three off-site semi-permanent wells located on Buttrick Avenue (10, 12R and 14R). The last recorded monitoring event on April 10, 2015 (Special Conditions Landfill Gas Monitoring Report, April 13, 2015, Appendix 7) reported the following methane concentrations (% by volume) exceeding the site specific action level in eight locations:

- MW-0 - 4.5%

- MW-4R - 50.2%
- MW-19 - 83.8%
- MW-15 - 6.7%
- MW-14 - 33.4%
- Well 14R (Buttrick Avenue) - 1.6%
- Well 12R (Buttrick Avenue) - 28.6%
- Well 10 (Buttrick Avenue) - 10.1%

5.2.2 Special Conditions

In accordance with Special Conditions #34 and #37c of the November 18, 2005, Permit Modification (Appendix 1), if any individual monitoring point has a bi-weekly reading that equaled or exceeded 100% LEL, or three consecutive bi-weekly readings that were greater than 25% LEL, methane monitoring of these points was conducted on a weekly basis. Monitoring returned to the bi-weekly monitoring schedule once three consecutive readings were each less than the 25% LEL action level. Results of these monitoring events were forwarded directly to the NYSDEC once they were available and summarized in each bi-weekly FMR. In addition, refer to Appendix 15 for the spreadsheet compilation of all LFG monitoring results to date in tabular and graphic format.

5.3 Piezometer Monitoring

On a monthly basis, groundwater elevation measurements were taken and recorded in all piezometer locations along the site perimeter vent trench in accordance with Special Condition 28 of the 2014 Permit. Measurements were manually taken using a portable water level meter. The IEM observed piezometer monitoring in the field and groundwater data was submitted to the NYSDEC. Results of these monitoring events were forwarded directly to the NYSDEC once they were available and summarized in each bi-weekly FMR. Piezometer monitoring results were incorporated into the landfill gas monitoring reports attached as Appendix C in each bi-weekly FMR, which are included as Appendix 6.

5.4 Settlement Plate Monitoring

Short term settlement was performed with plates installed throughout the landfill in order to evaluate settlement and compaction during the fill placement and grading. The majority of the short term plates were installed following the importation of significant amounts of fill material when the areas had been brought near to or at final grade. The 2014 NYSDEC Permit Modification (2-6006-00014/00013) Special Condition #6 required short term settlement monitoring to meet those requirements incorporated in the January 2005 Settlement Evaluation and Long Term Monitoring Plan. Short term monitoring was performed in accordance with the early 2005 Plan and as construction progressed and as per Special Condition #6. Short term settlement plates were either removed or monitoring discontinued when long term monitoring plates were installed in accordance with the revised Permit. Long term settlement plates were installed throughout the landfill in areas shown on the Figure titled Ferry Point Golf Course Settlement Plate Locations 4/11/2012 by KS Engineers, P.C. The locations of the long term plates were identified to be in the same specific vicinity of the short term plates.

The overall Program for monitoring settlement began in 2002 with the construction of 7 instrumented test fills and installation of 6 settlement plates that were located across the site. Test fills varied between 10 to 18 ft. in thickness and the specific locations were placed where future settlement would be most critical (e.g. future green areas and where significant thicknesses of fill were necessary). The majority of the settlement plates were located in the eastern portion of the site at a time when most of the fill had been imported in order to begin monitoring on-going settlement for areas that had been filled for a period of 9 months or longer. Initial settlement monitoring was conducted for a period of over 2 years and monitoring results were transmitted to NYSDEC on a bi-weekly frequency.

Settlement recorded following June 2003 was recorded but noted to have been significantly influenced by the importation if fill and the loading that this had on the areas adjacent to the test fills. Initial settlement was noted to have a range between 3 and 23 inches with the greatest variation in the western section. This was believed to be the result of a significant compressible clay layer near the surface. The recorded measurements were compared by Langan to the estimated values that had been calculated and they were found to be comparative. One positive aspect of this initial measurement and comparison showed the site to be in an optimal character for surcharge as a result of placement of larger fill loads for shorter periods of time in order to maximize the settlement as early as possible and minimize post construction settlement that is a critical issue for the sensitive surface of a golf course.

The resulting settlement analysis provided a recommendation for fill placement and long term predicted settlement. This information and comparison to settlement data is critical in monitoring the underground utilities for maintenance and repair. Piping settlement would result in lower carrying capacity and therefore storm lines were designed to be oversized with welded ends to prevent separation. Sanitary lines were also designed with the additional anticipated settlement incorporated into their long term maintenance. Increased slope, HDPE piping and flexible joints were recommended where piping would pass through areas of different fill thicknesses and therefore a differential in overall settlement would be expected to occur. Recommendations for flexible connections capable of withstanding rotation and extension were made for sewer lines exiting structures.

Settlement over the golf course surface was presented following the initial evaluation and recommendations for anticipated settlement were determined to be within the initially anticipated settlement and possibly sooner for areas where more substantial thicknesses of material were placed. Additional influences on long term settlement will be thickness and depth to the compressible clay layer. The variation in settlement was estimated to be between 3 to 15 inches over a 30 year period. Non-uniform settlement is also anticipated over the life of the golf course due primarily to the variable thickness of imported material and could equal up to 6 inches. Slope stability is not anticipated to be adversely impacted as a result of the long term settlement anticipated at the site.

Areas where significant amounts of fill were identified to be placed, such as the area between the irrigation pond and Hole #1 was required to be placed in a more controlled manner in order to allow the pore pressure to be evenly reduced. This method would prevent slope failures caused by buildup of pore

pressure. Placement of fill was specified to be in 2 ft. lifts per week which would allow for dissipation of pore water in the clay layer.

Special Condition #7 of the revised 2014 NYSDEC Permit specified long term settlement requirements and that they would continue to conform to those established in the earlier permit. Locations of the replacement long term settlement plates shown on the 2012 Figure were referenced and approved as part of the 2014 Permit Modification.

Long term settlement monitoring will be performed at the initially 8 recommended settlement monitoring plates located throughout the golf course for a period of 30 years following completion of construction.

The plates are located in variable subsurface conditions but in general have been placed where the greatest concentrations of fill material have been placed in connection with the thickest compressible soil layers. The locations were also chosen to be adjacent to underground utilities such as water and sewer mains and/or adjacent to green areas where differential settlement is most critical.

The date being used as the construction completion is April 1, 2015. This was described in the March 30, 2015 executed letter between NYSDEC and NYCDPR which referenced the Substantial Completion of Construction Certification allowing the golf course to open on April 1, 2015. The letter states that NYSDEC and NYCDPR agree that the April 1, 2015 opening of the golf course constitutes completion of the filling operation on the Site and construction of the earthwork portion of the Project as contemplated under the NYSDEC Permit (No. 2-6006-00014/00013 and 2-6006-00014/00016). As a result of this completion date, monitoring will continue until April 1, 2045 or until a point that NYSDEC authorizes monitoring to cease if it is prior to April 1, 2045.

Long term settlement will be documented as it is referenced in the Post Construction Custodial Care Plan (October 2013). This includes providing NYSDEC with an annual inspection report certified by a licensed NYS professional engineer. The monitoring will document the following information during the timeframes referenced:

1. Beginning within 60 days of the approval of this Engineering Certification Report and continuing for a period of 5 years, the quarterly monitoring results will be summarized and submitted on an annual basis.
2. Immediately following the initial 5 year period and continuing for an additional 5 years (10 years from the date of Engineering Certification Report approval) monitoring will continue on a reduced bi-annual basis and the results will be summarized annually.
3. Immediately following the year 10 bi-annual report summaries, monitoring will be performed and reported on a reduced annual basis. This annual monitoring and reporting will continue for the duration of the 30 year period or for 20 years.
4. Following the initial 5 year quarterly monitoring period, NYCDPR may petition NYSDEC for a decrease in the monitoring frequency or for cessation of monitoring altogether. In the event that NYSDEC approves terminating the monitoring for any monitoring plates, NYCDPR will evaluate the settlement plates for either abandonment or removal. This evaluation will be performed within

the first year following approval of monitoring cessation. The abandonment or removal documentation will be signed and certified by a NYS licensed professional engineer and provided to NYSDEC within the concurrent post closure reporting period after the completion of the work.

Special Conditions 6 and 7 of the 2014 Permit and the recommendations provided in the Settlement Evaluation and Long-Term Monitoring Plan dated January 26, 2005, prepared by Langan Engineering and Environmental Services, Inc. set forth settlement monitoring requirements related to the placement of fill material across the Site. A copy of the Settlement Evaluation and Long Term Monitoring Plan is included in Appendix 20. Settlement plate monitoring was performed on-site in accordance with the Permit. Settlement monitoring reports are attached as Appendix D in each of the FMRs, which are included as Appendix 6. Monitoring was conducted on-site as follows. Results of these monitoring events were forwarded directly to the NYSDEC once they were available and summarized in each bi-weekly FMR.

5.4.1 Short Term

The short-term settlement monitoring program began in December 2002 with the bi-weekly monitoring of seven test fills and six settlement plates located throughout the Site. Test fills consisted of an engineered soil fill ranging from 10 to 18 feet deep, generally located on-site in areas where significant thicknesses of fill were required. Settlement plates consisted of a subsurface plate beneath a casing and a flush-mount monitoring access port, similar to a monitoring well. Settlement plates that were part of the short-term settlement monitoring program were generally located in areas of the Site already at or close to final grade. The Settlement Evaluation and Long-Term Monitoring Plan recommended the following adjustments be made to the monitoring program during construction:

- Test fills that obstructed construction activities should be replaced with a settlement plate to be monitored near the location of the test fill.

- Settlement plates that needed to be moved for construction purposes should be relocated to the same general area and monitored until long-term monitoring points were installed.

Monitoring at short-term monitoring points was discontinued as required due to interference with ongoing construction. In an email correspondence dated May 1, 2012, included in Appendix H of the 2013 Engineering Report (Appendix 20), the NYSDEC informed NYCDPR that these short-term monitoring locations did not need to be replaced as long as construction at the Site progressed. As construction was concluded in each area of the Site, long-term monitoring plates were to be installed as described below. Short-term settlement monitoring continued to be performed bi-weekly at the Site until October 14, 2013. The design of the long term settlement monitoring points is presented in a January 26, 2005 *Settlement Evaluation and Long-Term Monitoring Plan* prepared by Langan Engineering and Environmental Services, Inc. and outlined in a May 21, 2014 *DEC Permit (DEC No. 2-6006-00014-00013 (SW) & DEC No. 2-6006-00014-00016 (TW))* prepared by New York State Department of Environmental Conservation. These documents outline the long term settlement plate monitoring locations, detail and required monitoring intervals. Monitoring of final settlement plates began on October 30, 2013 and continued throughout the remainder of construction. As previously stated, the monitoring and reporting schedule will be

modified as the post construction period extends into the future. This has been included in the Post Construction Custodial Care Plan (October 2013).

The following summarizes the efforts with respect to conformance to project design documents:

The approved May 21, 2014 *DEC Permit (DEC No. 2-6006-00014-00013 (SW) & DEC No. 2-6006-00014-00016 (TW))* prepared by NYSDEC refers to Appendix H of an October 15, 2013 *Supplemental Engineering Report* for a long term monitoring location plan. Appendix H of the permit which is included as Appendix 20 here, references and includes the April 11, 2012 *Ferry Point Golf Course Settlement Plate Locations* plan prepared by KS Engineers, P.C.

The February 20, 2014 *Ferry Point Golf Course as Built Drawing* prepared by Contractors Line & Grade South, LLC shows the as-built locations of the long term settlement monitoring plates in conformance with the above referenced April 11, 2012 KS Engineers plan. An additional monitoring point between golf course Hole 6 and Hole 7 was added and approved in the May 1, 2012 *Re: Settlement Plates Email* prepared by NYSDEC.

A January 26, 2005 Settlement Evaluation and Long-Term Monitoring Plan prepared by Langan Engineering and Environmental Services, Inc. states that:

> *"These settlement points will be utilized to determine future settlements during the golf course operation. They should be installed once filling operations are completed to within 1 foot of final grades or in other words, during placement of soil cover materials. After their installation, monitoring of the settlement points should be performed once every other month until the construction is complete. Subsequent monitoring should be performed once every 3 months during the first year of golf park operation and once every 6 months for the second year."*

The description above is a deviation from the Post Construction Custodial Care Plan where quarterly monitoring and annual summary reporting will be performed for an initial period of 5 years followed by an opportunity to evaluate and proposed changes. The frequency would without any additional recommendation be reduced to semi-annually following 5 years. This reference accepts a switch to semi-annual monitoring and annual reporting following the first year. This is the only approved change in the settlement monitoring plan outside of the approved 2013 document.

The data from the November 12, 2010 through October 31, 2014 *Fill Management Report No. 242 through No. 346* prepared by Woodard & Curran indicate that settlement plate monitoring was conducted every two weeks in conformance with the minimum requirements of the above referenced monitoring plan.

Monitoring of final settlement plates began on October 30, 2013 and continued throughout the remainder of construction. Results of the monitoring are available in the November 12, 2010 through October 31, 2014 *Fill Management Report No. 242 through No. 346* prepared by Woodard & Curran.

The November 12, 2010 through October 31, 2014 *Fill Management Report No. 242 through No. 346* prepared by Woodard & Curran do not document any non-conformance issues regarding the construction of the long-term settlement monitoring locations. A settlement monitoring plate detail is provided in the January 26, 2005 *Settlement Evaluation and Long-Term Monitoring Plan* prepared by Langan Engineering and Environmental Services, Inc. does not identify any deviations from the location plan and all long term settlement plates installed were specifically located as replacements for short term plates installed earlier during construction

5.4.2 Long Term

The design of the long term settlement monitoring points is presented in a January 26, 2005 *Settlement Evaluation and Long-Term Monitoring Plan* prepared by Langan Engineering and Environmental Services, Inc. and outlined in a May 21, 2014 *DEC Permit (DEC No. 2-6006-00014-00013 (SW) & DEC No. 2-6006-00014-00016 (TW))* prepared by New York State Department of Environmental Conservation. These documents outline the long term settlement plate monitoring locations, detail and required monitoring intervals. Monitoring of final settlement plates began on October 30, 2013 and continued throughout the remainder of construction. As previously stated, the monitoring and reporting schedule will be modified as the post construction period extends into the future. This has been included in the Post Construction Custodial Care Plan (October 2013).

The following summarizes the efforts with respect to conformance to project design documents:

The approved h, 2014 *DEC Permit (DEC No. 2-6006-00014-00013 (SW) & DEC No. 2-6006-00014-00016 (TW))* prepared by NYSDEC refers to Appendix H of an October 15, 2013 *Supplemental Engineering Report* for a long term monitoring location plan. Appendix H of the permit which is included as Appendix 20 here, references and includes the April 11, 2012 *Ferry Point Golf Course Settlement Plate Locations* plan prepared by KS Engineers, P.C

The February 20, 2014 *Ferry Point Golf Course as Built Drawing* prepared by Contractors Line & Grade South, LLC shows the as-built locations of the long term settlement monitoring plates in conformance with the above referenced April 11, 2012 KS Engineers plan. An additional monitoring point between golf course Hole 6 and Hole 7 was added and approved in the May 1, 2012 *Re: Settlement Plates Email* prepared by NYSDEC.

A January 26, 2005 Settlement Evaluation and Long-Term Monitoring Plan prepared by Langan Engineering and Environmental Services, Inc. states that:

> *"These settlement points will be utilized to determine future settlements during the golf course operation. They should be installed once filling operations are completed to within 1 foot of final grades or in other words, during placement of soil cover materials. After their installation, monitoring of the settlement points should be performed once every other month until the construction is complete. Subsequent monitoring should be performed once every 3 months during the first year of golf park operation and once every 6 months for the second year."*

The description above is a deviation from the Post Construction Custodial Care Plan where quarterly monitoring and annual summary reporting will be performed for an initial period of 5 years followed by an opportunity to evaluate and proposed changes. The frequency would without any additional recommendation be reduced to semi-annually following 5 years. This reference accepts a switch to semi-annual monitoring and annual reporting following the first year. This is the only approved change in the settlement monitoring plan outside of the approved 2013 document.

The data from the November 12, 2010 through October 31, 2014 *Fill Management Report No. 242 through No. 346* prepared by Woodard & Curran indicate that settlement plate monitoring was conducted every two weeks in conformance with the minimum requirements of the above referenced monitoring plan.

Monitoring of final settlement plates began on October 30, 2013 and continued throughout the remainder of construction. Results of the monitoring are available in the November 12, 2010 through October 31, 2014 *Fill Management Report No. 242 through No. 346* prepared by Woodard & Curran.

The November 12, 2010 through October 31, 2014 *Fill Management Report No. 242 through No. 346* prepared by Woodard & Curran do not document any non-conformance issues regarding the construction of the long-term settlement monitoring locations. A settlement monitoring plate detail is provided in the January 26, 2005 *Settlement Evaluation and Long-Term Monitoring Plan* prepared by Langan Engineering and Environmental Services, Inc. does not identify any deviations from the location plan and all long term settlement plates installed were specifically located as replacements for short term plates installed earlier during construction

The long term settlement monitoring was performed at the locations shown on the revised Settlement Plate Location Plan and a sketch that includes an additional monitoring point between golf course Hole 6 and Hole 7 included in Appendix H of the Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East Bronx, NY dated May 31, 2012 (Revised August 31, 2012, October 15, 2013) as described in Appendix I of that report. These locations were approved by NYSDEC in an email dated May 1, 2012. The long-term settlement monitoring points were installed as construction was completed in each area of the Site. Upon installation, the long-term settlement plates were monitored in accordance with the criteria set forth in Special Condition 7 of the Permit.

As a component of this Report section the following list of documents were used:

- A January 26, 2005 *Settlement Evaluation and Long-Term Monitoring Plan* prepared by Langan Engineering and Environmental Services, Inc.;
- A May 21, 2014 *DEC Permit (DEC No. 2-6006-00014-00013 (SW) & DEC No. 2-6006-00014-00016 (TW))* prepared by New York State Department of Environmental Conservation;
- A April 11, 2012 *Ferry Point Golf Course Settlement Plate Locations* plan prepared by KS Engineers, P.C.;
- A November 12, 2010 through October 31, 2014 *Fill Management Report No. 242 through No. 346* prepared by Woodard & Curran;
- A undated *additional settlement plate sketch;*
- A February 20, 2014 *Ferry Point Golf Course as Built Drawing* prepared by Contractors Line & Grade

South, LLC; and,

- A May 1, 2012 *Re: Settlement Plates Email* prepared by NYSDEC.

The long term settlement monitoring was performed at the locations shown on the revised Settlement Plate Location Plan and a sketch that includes an additional monitoring point between golf course Hole 6 and Hole 7 included in Appendix H of the 2013 Engineering Report and as described in Appendix I of that report. These locations were approved by NYSDEC in an email dated May 1, 2012, which is included in Appendix H of the 2013 Engineering Report (Appendix 20). The long-term settlement monitoring points were installed as construction was completed in each area of the Site. Upon installation, the long-term settlement plates were monitored in accordance with the criteria set forth in Special Condition 7 of the 2014 Permit.

5.5 Groundwater Monitoring

The overall setting of the Ferry Point Park Site with respect to the groundwater regime can be described as an area covering approximately 220 acres bounded along the waters of the East River to the south, Saint Raymond's Cemetery to the north, Balcom and Emerson Avenues to the east and the Bronx-Whitestone Bridge and ramp to the west. The entire site was a former operating municipal solid waste landfill that ended accepting fill material in the 1960's. The overall landfill footprint extended beyond the boundary of the Ferry point Park Site. The period of operation predated the existence of current Solid Waste Facility design and construction requirements and therefore, no groundwater assessment or survey was performed for the construction or during operations of the landfill.

A review of aerial photography was conducted at the time this report was being prepared. The photographs are available on the New York City public website and include those showing the overall site and surrounding area from a period beginning in 1924 and up until 2012. The earliest photo of 1924 shows nearly the entire footprint of the Ferry point Park Site was formerly open water, existing as a large bay of the East River. A review of the 1951 aerial photograph of the same scale shows the northwest portion of the landfill site was filled with what appears to be very light colored fill material. The photo shows filling operations to be expanding from the northwest corner outward and based upon the extreme contrast in color of existing land and fill material to be sand material possibly sourced from in-water dredge operations. This practice was performed in many other areas of the City at this time when harbor deepening and widening took place from 1940 onward. There were no photos between 1951 and 1996 and so there was no further photographic record in this collection to show the progression of landfilling. This period of filling (pre-1951) predated the DSNY recordkeeping and existence and there would not be any expected record of the placement of this fill in Sanitation Department documents. The existence of these photos is important to present the hydrogeologic origin of site groundwater for comparison to that of other groundwater. This history places the entire Site at the base of a larger drainage basin and in direct connection with the East River system of salt and brackish waters. Using this as the basis for the hydrogeologic model, shallow groundwater at the Site would now be considered to be part of the upland groundwater table as a result of the filling and extension of the shoreline into the river. Groundwater

within the fill material could be expected to be tidally influenced but the inland limit of this influence would be dictated by the fill material, its composition and compaction.

As part of the Volume #1 Application for Modification to the Solid Waste Management Facility Permit for Construction of the Ferry Point Park Recreation Facility Engineering Report (June 30, 2005; Appendix 20), a specific groundwater impact assessment was presented. This was based on a qualitative assemblage of data and information from other related studies but not specifically from a focused groundwater evaluation.
A May 31, 2005 letter on the Influence of Fill Placement on Groundwater prepared by Langan Engineering assessed the impact of fill material on the groundwater (found in Appendix VII of Volume #1 Application for Modification to the Solid Waste Management for Construction of Ferry Point Park Recreation Facility Engineering Report, June 30, 2005, Appendix 20). This was based upon information and conditions gathered during geotechnical evaluations and site history knowledge. The findings presented at that time indicated the development of the Ferry Point Park Site as a golf course would not further impact or change groundwater flow patterns or conditions and would therefore not further impact the East River beyond the existing conditions.

Much of the description presented in the Langan assessment focused on the site development and the addition of engineering controls that would become part of the site. These included: paved path and parking areas, significant stormwater collection systems, site grading to control flow, control devices and systems as well as importation and capping of the entire site with a varied but significant layer of clean cover materials that would all have a positive impact and reduce the amount of surface water filtering through the landfill and into the groundwater. The overall completed site development in the 2005 Engineering Report included a total of 26 acres of impervious area and collection of stormwater in detention facilities (Appendix 20).

A total of 26 piezometers were installed to monitor shallow groundwater along and immediately adjacent to the Landfill Gas passive trench. These piezometers, while used for depth to groundwater measurements are not incorporated into the groundwater evaluation as they were specifically used to assist in the design and monitoring of the LFG vent trench. The principal purpose for the piezometers and their association with the LFG trench was to monitor the level of groundwater to determine if groundwater levels went below the LFG passive recovery trench. Groundwater elevation measurements collected from the piezometer locations along the site perimeter vent trench (Special Condition 28) are addressed in section 5.3 (Piezometer Monitoring) of this report. Section 5.5 addresses the baseline groundwater monitoring requirements established in 2010.

The NYSDEC Permit issued on November 18, 2005 for the construction of the 222 acre golf course did not include a specific requirement for a groundwater monitoring plan outside of the singular focus of monitoring groundwater elevation for landfill gas control in the trenches (Appendix 1). In 2010, NYSDEC requested additional information regarding groundwater conditions and if any new, relevant information was available to verify the conclusions of the geotechnical portion of the 2005 Engineering Report (June

30, 2005, Appendix 20). As no information was available, recommendations were made in 2011 by NYSDEC for the installation of a monitoring well network.

A Technical Memorandum was prepared by Ecology & Environment Engineering, P.C. (E&E) outlining the field procedures for establishing reference point groundwater characterization methods including the installation, development, sampling, well gauging and slug testing of 11 new monitoring wells at the Site (Technical Memorandum re: Field Sampling Procedures for Ferry Point Site – Reference Groundwater Characterization, September 19, 2011, Appendix 20). At the time of monitoring well installation (February 2012), construction activities were well underway and estimated to be 80% complete. The baseline characterization was expected to capture the potential measurable impacts to groundwater. Future monitoring is expected to capture the impacts representing a more complete construction condition

The well installation program included consistent and standard well installation and construction methods, well development, baseline sampling, water level survey and aquifer testing. A figure showing the well construction details and installation elevations and locations is presented as S-H21 dated 11/8/2011. Well construction methods included the installation of shallow 2 inch diameter PVC wells with 10 ft. of slotted screen penetrating into the upper surface of the water table and standard construction finishing. All of the wells were developed and monitored using consistent criteria (turbidity, pH, conductivity and temperature), Table 1 and 2, respectively, Fieldwork Summary Report (as part of Groundwater Characterization) (May 31, 2012; Appendix 20). Each of the newly installed wells was then sampled to establish the initial baseline conditions and each was surveyed to determine groundwater level and flow direction conditions. Basic site hydrogeological information was also characterized during this effort, including direction of flow, groundwater elevation gradients, and flow velocity. Based on the initial measurements, flow direction was found to be relatively consistent in that groundwater flow was in the south-southeasterly direction toward the East River (Figure 1, Fieldwork Summary Report, May 31, 2012, Appendix 20). There was one important item noted from the initial conditions assessment and this was the lack of measureable tidal influence on any of the monitoring wells.

One soil sample was collected from each borehole from the shaping material zone with an additional quality assurance sample collected from MW-02. The soils were sampled for synthetic precipitate leaching procedure (SPLP) semi-volatile organic compounds (SVOCs), PCB/pesticides, metals, and cyanide. Seven metals and one SVOC (phenol) were detected in the 13 samples sent to the laboratory
SPLP analysis. For comparison purposes, these results are shown along with the NYSDEC Technical and Operational Guidance Standard 1.1.1, for Class GA groundwater. Four metals, and one SVOC (phenol) were detected with concentrations higher than the comparison standard (Table 6, Fieldwork Summary Report, May 31, 2012, Appendix 20).

Slug testing was performed on each of the wells to evaluate hydraulic conductivity and while this is not a critical measurement for wells installed within landfill material, it is useful in evaluating the consistency of all wells in the system. The results of the slug testing presented a fairly uniform range of hydraulic conductivities within the landfill material.

The results of the baseline groundwater analysis showed that with the exception of metals, the analytical results were in line with a landfill of this type and age. All metal detections were higher than the NYSDEC Class GA groundwater standard, which was used for comparison purposes. It is noted that these samples had high turbidities (e.g., greater than 1000 NTU) and this likely impacted the metals test results. Phenolics and ammonia leachate parameters were also detected higher than the comparison standard (Table 7, Fieldwork Summary Report, May 31, 2012, Appendix 20). As a result, NYSDEC requested that both filtered and unfiltered samples be collected. If the results were consistent, subsequent events would be completed using filtered samples only for the inorganic parameters (May 8, 2012 Ferry Point Groundwater Characterization Conference Call, May 9, 2012, Appendix 20). Filtered and unfiltered groundwater samples were collected during subsequent events.

NYSDEC also provided DPR with requirements for future groundwater monitoring (e.g., Post Construction Monitoring) in their FPP Groundwater Characterization Monitoring Objective on May 8, 2012 (Appendix 20). The objective included the following requirements: reference point/background characterization in three quarterly rounds of sampling for all parameters listed in 6 NYCRR Subpart 360-2.11 baseline parameters. Following completion of the characterization sampling, baseline sampling would continue on a biannual basis after the initial three quarterly rounds until the FPP landfill end use (golf course) is operational. Table 5-X below summarizes the reference point/background characterization events.

Table 5-1. Summary of Reference Point/Background Characterization Events

Sampling Frequency	Wells Sampled	Status
Quarterly 1	GMW-1 – GWM-11	Completed February 2012
Quarterly 2	GMW-1 – GWM-11	Completed May 2012
Quarterly 3	GMW-1 – GWM-11	Completed August 2012
Bi-Annual	GMW-1 -GMW-11	Completed March 2013
Bi-Annual	GMW-1, GMW-2, GMW-3, GMW-4, GMW-5, GMW-6, GMW-7, GMW-8, and GMW-10	Completed March 2014
Bi-Annual	GMW-2, GMW-3, GMW-4, GMW-5, GMW-6, GMW-7 and GMW-8	June 20, 2014
	GMW-1, GMW-7, GMW-10, and GMW-11	July 31, 2014

The three quarterly sample events were completed without modification. The Bi-Annual events were modified following the March 2013 event due to construction of the golf course which limited access to the Site. The modifications include the following:

- No September 2013 Bi-Annual sample event.
- No sample was collected from GMW-9 (well was dry) and GMW-11 (access) during the March 2014 sample event.
- The second biannual sample event for 2014 was split into two events completed in June and July. GMW-9 was not sampled. Groundwater samples were collected from the site on July 22, 2014; however the samples were not analyzed due to compliance issues with the Standard Operating Procedures.

Table 5-1 presents the overall groundwater and analysis date for monitoring wells GMW-1 through GMW-11 covering the period between February 2012 through July 2014 and are consistent with the baseline sample events: metals, phenolics and ammonia compounds, isolated and sporadic VOCs (except for chlorobenzene detected in well GMW-01 and GMW-06 during multiple events) and SVOCs (primarily PAHs) were detected above the NYSDEC Technical and Operational Guidance Class GA Groundwater Criteria. The Class GA Groundwater Criteria were used for screening purposes as groundwater is not used for potable resources. The results of the filtered (dissolved) metals samples are significantly lower than the non-filtered metals samples and in most cases exceedances of non-filtered samples are non-detect or below the Class GA Groundwater Criteria in the filtered samples.

In accordance with the Post Construction Custodial Care Plan (Appendix 20), groundwater monitoring will be performed at all 11 permanent monitoring wells throughout the golf course. Approval of this Closure Certification Report signifies the commencement of operations at the golf course beginning the period of post construction monitoring. Sampling will be performed on an annual basis with collection and analysis of groundwater for those constituents listed in 6 NYCRR Part 360-2.11 routine parameters. This sampling information and data will be summarized and included with the overall annual facility monitoring and inspection report. Monitoring and reporting will begin 60 days following the approval of this closure report and will continue for a period of three years.

Following the completion of the initial 3 year post-operations monitoring, DPR may submit documentation to NYSDEC to request a reduction in sampling or complete cessation of sampling. The initial 3 year period will form the data set to be used in the event a reduction or change in monitoring is requested. The goal of the monitoring will be to provide data showing if the park adversely impacts water quality with respect to leachate quality or quantity and to compare the 2013 permit performance criteria to existing and current conditions.

Should a request for modification or cessation be approved, monitoring wells will be assessed for abandonment or removal within a 1 year period following the ending point of monitoring. Closure documentation will be provided by a New York Professional Engineer during the same annual reporting period.

Upon commencement of operation of the golf course, the frequency of groundwater monitoring changes to annual with samples being analyzed for all constituents listed in 6 NYCRR Subpart Part 360-

2.11 routine parameters and parameters of concern identified during the reference point characterization period. The golf course began operation in April 2015 and post construction monitoring will be initiated in September 2015. Post construction groundwater monitoring is discussed in detail in Section 5.7.4.

Design documents for the groundwater monitoring wells are included in Appendix G.2 of the 2013 Engineering Report (Appendix 20). An initial sampling event was completed in February 2012 and included the testing activities described below.

Groundwater monitoring results are attached in Appendix 15.

5.6 Deed Restriction

Special Condition 32 of the 2014 Permit requires that the Permittee executes and files a NYSDEC approved deed restriction, which shall run with the land in perpetuity, and shall recite and require compliance with the Part 360 Permit's provisions as regards to the custodial care requirements described in Appendix I of the 2013 Engineering Report (Appendix 20).

NYCDPR is in the process of reviewing the language in Attachment A transmitted with the 2014 Permit, and will use this language as the model for the deed restriction. NYCDPR will contact the NYSDEC in the event NYCDPR has any proposed additions, deletions, and/or revisions to the general text of Attachment A.

5.7 Post Construction Monitoring

Post construction monitoring of the Golf Course, Community Park, and Waterfront Park is the responsibility of NYCDPR and will be completed as required by the Permit. Post closure monitoring will be completed in accordance with the plans set forth in Ferry Point Park East Post Construction Custodial Care Plan dated October 2013 included as Appendix I of the 2013 Engineering Report (Appendix 20).

The following table includes each monitoring component, the frequency, and the duration of monitoring dependent upon the cessation of activity:

Component	Frequency	Duration
Final Cover System	Quarterly	5 years
LFG System	Quarterly	5 years
Infrastructure	Bi-Annually Annually	10 years 15 years
Groundwater Monitoring	Annually	3 years*
Long Term Settlement Plates	Quarterly	5 years*
Parking Lot Asphalt Cover (April & October)	Bi-Annually Annually	5 years* 20 years*

*Denotes Dependent on Cessation of Activity

NYCDPR will not be performing post-construction monitoring for the Waterfront Park portion of the Site until construction is complete and approved, and will restrict public access until such time.

NYCDPR is in the process of engaging a full service environmental firm to conduct the post construction monitoring requirements and will complete the post construction monitoring required to comply with the Permit in accordance with the Post Construction Custodial Care Plan and as follows.

5.7.1 Golf Course Operations

The Site will be operated as part of the New York City Department of Parks and Recreation system. The Community Park and the Waterfront Park will be operated and maintained by the NYCDPR Borough of the Bronx Operations and Maintenance division or an appointed representative. NYCDPR has entered into a contract with a golf course concessionaire, Trump Ferry Point LLC to implement post construction care necessary to maintain the Golf Course for operational purposes. Golf Course maintenance and operations exclude those requirements specific to post construction monitoring and maintenance of existing environmental conditions and infrastructure as installed by NYCDPR and specifically defined in this report as being landfill gas systems, groundwater monitoring, and long-term settlement plates.

5.7.2 Landfill Gas Monitoring

NYCDPR will implement post construction monitoring necessary to fulfill the requirements of the Post Construction Custodial Care Plan for landfill gas monitoring. The landfill gas monitoring program includes monitoring for on-site and off-site landfill gas wells, piezometers, passive vent trench, passive vents, sub-slab depressurization systems, and Irrigation Lake venting system. Any necessary repairs or maintenance required as a result of inspection and monitoring activities will be the responsibility of NYCDPR or an appointed representative.

The Site's landfill gas management system will be inspected and monitored in accordance with the Operations, Monitoring, & Maintenance ("OM&M") actions presented in Section 6 of the Landfill Gas Management Plan ("LFGMP") located in Appendix F.1 of the 2013 Engineering Report (Appendix 20).

Monitoring and inspection will commence concurrently within 60 days of the approval of this construction certification report unless otherwise noted within the OM&M plan. Adjustments to monitoring frequencies will be requested of NYSDEC upon meeting the performance criteria thresholds identified in Section 6.3.4.2 of the LFGMP. NYCDPR will submit a request with supporting documentation to NYSDEC 30 days prior to the desired date of the proposed change in monitoring. NYCDPR will not change monitoring frequencies until the request has been approved.

5.7.3 Long Term Settlement Monitoring

NYCDPR will implement post construction monitoring necessary to fulfill the requirements of the Post Construction Custodial Care Plan for nine settlement monitoring plates on the Golf Course.

Monitoring will commence concurrently within 60 days of the approval of this construction certification report for a period of three years. Based on the results of the initial five years of monitoring, NYCDPR may

petition for decreased monitoring or a cessation in monitoring frequencies. NYCDPR will not change monitoring frequencies until the request has been approved.

5.7.4 Groundwater Characterization Monitoring

NYCDPR will implement post construction monitoring to fulfill the requirements of the Ferry Point Park East Post Construction Custodial Care Plan (October 2013). Groundwater monitoring will be performed at the eleven well locations located within the golf course.

Upon commencement of operation of the golf course (April 2015), groundwater sampling will take place annually with samples being analyzed for constituents listed in 6 NYCRR Subpart Part 360-2.11 routine parameters. The results of the groundwater sampling will be presented in a groundwater monitoring report and a summary will be submitted to NYSDEC as a part of the annual monitoring and inspection report. Monitoring and inspection will commence concurrently within 60 days of the approval of the construction certification report for a period of three years with the goal of demonstrating whether operation of the park adversely impacts on water quality with respect to leachate quality or quantity, and whether operation of the park meets the performance criteria established in the Permit.

Post Closure monitoring is anticipated to be conducted on the following schedule:

Sampling Frequency	Requirement	Wells Sampled	Status
Annual - Year 1	Post-Construction Monitoring	GMW-1 – GWM-11	Anticipated September 2015
Annual - Year 2	Post-Construction Monitoring	GMW-1 – GWM-11	Anticipated September 2016
Annual Year 3	Post-Construction Monitoring	GMW-1 – GWM-11	Anticipated September 2017

Upon completion of 3 years of post-operation annual routine groundwater sampling, DPR may submit documentation to NYSDEC in furtherance of a request to reduce or cease groundwater sampling at the Ferry Point Park golf course (Ferry Point Park East Post Construction Custodial Care Plan, October 2013). The Groundwater monitoring and sampling program will cease either at the three year completion or ten years from the date of the initial groundwater sampling event. When the request for cessation is accepted, the groundwater monitoring wells will be evaluated for either abandonment or removal within the first year of the cessation of monitoring. The abandonment or removal documentation, signed and

certified by a licensed NYS Engineer will be provided to DEC within the concurrent post closure reporting period after the completion of the work.

Monitoring and inspection will commence concurrently within 60 days of the approval of this construction certification report for a period of three years. Upon completion of three years of post-operation annual routine groundwater sampling NYCDPR may submit documentation to the NYSDEC in furtherance of a request to reduce or cease groundwater sampling at the golf course. NYCDPR agrees to perform operational groundwater sampling, data analysis and reporting for a minimum of three years after construction, with the goal of demonstrating whether operation of the park adversely impacts water quality with respect to leachate quality or quantity, and whether operation of the park meets the performance criteria established in the Permit. NYCDPR will not change monitoring frequencies until the request has been approved.

5.7.5 Final Cover System

The integrity of the final cover system will be inspected routinely by NYCDPR, or their duly appointed representative, to fulfill the requirements of the Post Construction Custodial Care Plan. Inspections and maintenance will be completed in association with the Maintenance Guidelines for Trump Golf Links at Ferry Point Park included in Appendix I of the 2013 Engineering Report (Appendix 20).

Monitoring and inspection will commence within 60 days of the submittal of this construction certification report and then undertaken annually within 30 days of the submittal of the initial report. NYCDPR agrees to a rolling five-year plan, whereby NYCDPR may petition to modify or terminate the final cover inspection requirements by demonstrating that the integrity of the final cover system has been maintained in accordance with performance criteria established in the Permit.

5.7.6 Parking Lot Asphalt Cover (Consent Order)

During 2010, fill material from a JFK Airport source site was brought on-site and placed in seven different stockpiles. The material was believed to be in conformance with permit conditions. However, the material was found to be in violation of 2005 Permit Special Conditions 1, 9, and 16, during NYSDEC and IEM inspections. On January 10, 2011, NYCDPR signed an Administrative Order on Consent (Consent Order), Case No. R2-20100521-172, related to this fill material, which was used to construct the base of the clubhouse and maintenance facility parking lots.

Specific requirements within the Consent Order as they pertain to post construction operations are as follows:

From Consent Order No R2-20100521-172: “Attachment “A” Proposed Handling of Ferry Point Park Soil Stockpile, Item 6, Once the asphalt top course is installed, the asphalt surfaces of the clubhouse and maintenance facility parking lots will be inspected during April and October every year by a licensed professional engineer (“engineer”) who is registered to practice in New York State. Within thirty days (30) days of such inspections, the engineer will submit to the Department a stamped and certified written detail report, including photo documentation, regarding the condition of the asphalt surfaces and their

adequacy, including photo documentation, regarding the condition of the asphalt surfaces and their adequacy to effectively function as covers. A description of any needed repairs will be included in the engineer's report.

Item 7, any repairs deemed necessary by the engineer must be completed by New York City Department of Parks and Recreation ("NYC Parks") within fifteen (15) days of the notification by the Department to NYCDPR to begin such repairs. A certification, including supporting written and photo documentation must be submitted by NYC Parks within fifteen (15) days after completion of repairs."

6 Summary

Construction activity at the Site began in July 2000 and concluded in July 2014 with physical completion of the Golf Course. Although the Golf Course construction is complete, some incidental work continues to occur at the Site associated with specific improvements necessary for golf course operations by the golf course concessionaire. Construction activity included clearing and grubbing, excavation, grading, importation of fill material, construction of the Community Park and Golf Course and associated appurtenances, installation of site utilities and infrastructure, installation of plantings, and installation of asphalt parking lot. A representative of the NYCDPR was present during all construction activities. To the best of our knowledge, a representative of the IEM was present during all earth moving and soil importation activities. For this project, fill importation followed the Permit requirements and resulted in a large scale earthwork fill conducted in general accordance with NYSDEC requirements as documented in the daily, bi-weekly, and quarterly reports and as summarized herein.

7 Certification

Certification Statement

I, Robert Iaropoli, PE, LS, an employee of the New York City Department of Parks and Recreation, exercising independent judgment and discretion do hereby certify that this Final Construction Certification Report was prepared under my direction and supervision. This Final Construction Certification Report was prepared in accordance with the NYSDEC requirements in 6 NYCRR Part 360, the current Part 360 Permit and approved Part 360 Permit Modification documents. The information contained herein is based upon: 1) Work which I have personally inspected both during and after construction from November 2012 to date; 2) Information provided to me by those directly employed by or under contract with the New York City Parks and Recreation and the New York City Department of Design and Construction as construction project managers;3) Design Consultants; 4) Contractors responsible for construction pursuant to their contracts except as indicated; and 5) third parties, such as manufactures, suppliers, etc., whose materials have not been personally verified by me for accuracy and/or adequacy but believe them to be true and accurate[4].

STATE OF NEW YORK ★ ROBERT F. IAROPOLI ★ 093008 LICENSED PROFESSIONAL ENGINEER

Oct. 19th 2015

Robert Iaropoli, PE, LS

Date

New York City Department of Parks and Recreation

[4] Certification means a statement of professional opinion based upon investigation, analysis, knowledge and belief that is stated to be true and accurate. 6 NYCRR Part 360-1.2(b) 24.

8 Delineation Page

Delineation Page

Construction Certification Report
Ferry Point Park Golf Course and Community Park

The drawings, analysis and certification of the fill operation performed by the Independent Environmental Monitor, Woodard & Curran, 709 Westchester Avenue - Suite L2, White Plains, NY 10604 incorporated in this Construction Certification Report have not been verified.

Engineers Planners Surveyors Landscape Architects Environmental Scientists

MASER CONSULTING P. A.

Final Construction Certification Report
Subslab Depressurization System & Gas Line Installation
NYSDEC Permit #2-6006-00014 / 00013 (Solid Waste)

Trump Ferry Point Golf Links Permanent Clubhouse
500 Hutchinson River Parkway
Block 5622, Lot 1
Bronx, New York

November 26, 2019

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EXECUTIVE SUMMARY

Maser Consulting P.A. (Maser Consulting), on behalf of The Trump Organization, has prepared this Certification Report for the construction of the permanent Clubhouse at the Trump Ferry Point Golf Links located at 500 Hutchinson River Parkway, Bronx, New York. This report has been prepared pursuant to 6 NYCRR Part 360 of the New York State Solid Waste Management Program and the 2013 Ferry Point Park East Post Construction Custodial Care Plan. This report also includes a summary of a supplemental project to install a new gas main as part of the Clubhouse Construction project.

Acting as the Independent Environmental Monitor (IEM), Maser Consulting witnessed, recorded and confirmed construction of the new Trump Links Clubhouse, including the installation of support pilings, importation of suitable materials used for cover; the application, installation and testing of the Liquid Boot® Vapor Barrier System and the associated Sub-slab Depressurization System (SSDS); and the installation, calibration and testing of the interior Methane Detection System. For each construction and testing component, Maser Consulting confirms compliance with the Permits, plans and specifications of the project. Minor deviations to the plans and specifications are noted in this report and in the As-Built documents contained herein. Minor deviations to the specifications were the result of two main issues: the need to relocate system components to avoid conflicts and interferences with utilities and appurtenances; and the substitution of the materials of construction that were equivalent or superior to the original specifications.

The IEM also monitored, tested and confirmed that soil materials imported for the new Clubhouse construction were derived from pre-approved sources. The IEM conducted periodic surveillance of trucks being loaded at the approved facilities and transported to the Construction Site. For material imports, the IEM visually evaluated loads and scanned loads with direct reading instruments for signs of contamination. Only those loads meeting project permit and specifications standards were permitted to be unloaded at the site.

At times when imported soil materials had to be stockpiled on-site, the IEM took steps to ensure that a controlled staging area was secured. The staging area was established in the parking lot to the west of the new Clubhouse site. The IEM also took steps to ensure that the stockpile was properly covered to prevent erosion by wind and water, and that catch basins in the parking lot were properly protected to ensure that sediments would not enter the storm water system. Weekly erosion control inspections were conducted by the IEM in accordance with NYSDEC's Construction Site Management Program. The IEM immediately communicated deficiencies in the erosion control features to the General Contractor (JCS) such that immediate mitigative action could be taken.

Maser Consulting also acted as the IEM for a supplemental project associated with the new Clubhouse construction. The supplemental project consisted of the installation of an approximately 5,500-foot long, 6-inch diameter gas pipeline installation. The new gas supply line was deemed necessary to provide heating, ventilation, air conditioning and other utility service to the new Clubhouse. The gas pipeline was connected to a Consolidated Edison main located north of the clubhouse along Schley Avenue. The pipeline route generally traverses the western property line before turning east toward the new clubhouse in the vicinity of the Clubhouse parking lot. As IEM for this supplemental project, Maser Consulting witnessed, recorded and confirmed that the gas pipeline installation was conducted in accordance and incompliance with the project permits, plans and specifications.

Similar to the Clubhouse construction project, cover material importation was required for the gas main installation project. The IEM took appropriate measures to ensure that the source material was inspected and tested. Soil quality analytical results have been included within this report. Analyzed permit parameters were found to be acceptable. The IEM also visually assessed and field screened each load to ensure that the quality of the material met project permit requirements and project plans and specifications.

FINAL CONSTRUCTION CERTIFICATION REPORT
TRUMP FERRY POINT GOLF LINKS PERMANENT CLUBHOUSE
SUBSLAB DEPRESSURIZATION SYSTEM & GAS LINE INSTALLATION

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Appendix Q – Drawings titled "Ferry Point Clubhouse, 500 Hutchinson Parkway, Bronx, NY" showing new gas line prepared by Victor Famulari Architect P.C. dated July 25, 2018
Appendix R – DORs for Installation of New 6-Inch Gas Line to Clubhouse

I. INTRODUCTION

A. Purpose

This Final Construction Certification Report for the Trump Ferry Point Golf Links clubhouse is submitted to the New York State Department of Environmental Conservation (NYSDEC) and the New York City Department of Parks & Recreation (NYCDPR) upon completion of the construction of a new clubhouse at Ferry Point Park East. Built on top of a former municipal landfill, the major elements of the Clubhouse construction project consisted of the installation of over 200 steel support pilings driven through the former landfill material and into competent rock at an average depth of 75 below grade. During the support piling installation, Maser Consulting (acting as the IEM) measured the ambient air quality for signs of methane gas release from the subsurface. When detected on rare occasions, immediate measures were taken to mitigate methane from the work and breathing zones with the use of engineering controls including physical barriers and the use of industrial explosion-proof fans to ventilate the work zones.

Following the installation of the support pilings, Maser Consulting observed the installation of two added protective elements – a Liquid Boot® Vapor Barrier System and a corresponding SSDS. Both systems were designed to mitigate the intrusion of methane and other landfill gases into the new Clubhouse.

As a means to assess the effectiveness of the Vapor Barrier and the SSDS, a Methane Detection System was installed inside the new Clubhouse. The methane detection system consists of a network of in-floor methane sampling ports as well as a series of methane detectors located throughout the main banquet and reception areas as well as in the smaller offices, the kitchen and other employee and publicly-accessible areas.

This report certifies that the construction of the Liquid Boot® vapor barrier system and the SSDS for the new clubhouse have been completed in accordance with the 6 NYCRR Part 360 Solid Waste Management Permit for Ferry Point Park (copy provided as **Appendix A**). This report further certifies that Methane Detection system was also installed, tested and calibrated in compliance with the project permits, plans and specifications.

B. Report Organization

This report has been generated to provide a written post-construction certification report to comply with the requirements of the above-referenced Part 360 Permit. The narrative and supporting information provided in this report have been organized such that any individual, especially those not familiar with the new clubhouse construction, can gain a concise understanding of the history of improvements at the Site (a former solid waste management facility, i.e. landfill).

The report has been organized into the following sections:

- Section I which briefly describes the purpose and scope of the project, provides details pertaining to the Site background including a Site description, key agencies involved, and permitting history

- Section II describes the Part 360 Permits and modifications, Permit reference documents, nonconformance issues, operational upsets, emergencies, and unusual circumstances, and reporting completed associated with the new clubhouse

- Section III details the fill importation Quality Assurance / Quality Control (QA/QC) program, specifically source site reviews for cover layer material, on-site fill importation inspection, trucking manifests, rejected trucks and materials, fill tracking, and total carcinogenic semi-volatile organic compound (SVOC) tracking

- Section IV provides details related to construction activities on-site including construction of the new clubhouse, environmental controls such as landfill gas monitoring, municipal solid waste handling, earthwork and fill placement, demarcation layer, construction progress meetings, and deviations from the approved design plans and/or Permit requirements with as-built surveys

- Section V details the environmental monitoring completed during the Project including Stormwater Pollution Prevention Plan (SWPPP) erosion control inspections.

- Section VI provides a summary of the report

- Section VII provides report certification

C. Background Information

a. Project Scope

Ferry Point Park in the Bronx (the "Site") is a former landfill covering 222 acres that is bounded by the Bronx-Whitestone Bridge and Hutchinson River Parkway to the west; Balcom, Miles, and Emerson Avenues to the east; Schley Avenue and St. Raymond's Cemetery to the north; and the East River to the south. The project was originally managed under Ferry Point Partners, LLC and was taken over solely by the City of New York Department of Parks and Recreation in October 2007.

The original project scope included the construction of three main elements including a golf course, a community park, and a waterfront park over the 222-acre Site as follows:

- An 18-hole golf course with practice facility, driving range, clubhouse, maintenance facility, irrigation lake, stormwater retention ponds, and a parking lot (192.5 acres);
- A passive recreation waterfront park with walkways and a comfort station (19.5 acres); and
- A community park with baseball fields, basketball court, walkways, comfort station, and landscaped stormwater retention area (10 acres)

A new element of the project was initiated in 2017 with the construction of a permanent clubhouse in the southern corner of the Site. The project began in July 2017 and was completed in August 2018.

A supplemental component of the Clubhouse project was deemed necessary when the existing 2-inch gas service line to the facility was determined to not be capable of providing the volume of gas necessary to support the heating, ventilation and air conditioning units as well as other facility utilities such as the kitchen and other amenities. Construction of the Gas Main Installation began in late August 2018 and was substantially completed by November 2018.

b. Project Site[1]

The origins of the site date back to the early 1900s. At that time, an available 1900 map of the Bronx showed the western edge of the site which now contains the expressway and Whitestone Bridge was a long narrow peninsula extending out to the same area that the northern landing of the Whitestone Bridge now extends. Immediately east of this peninsula was a large open bay which is the area that the Ferry Point Golf Course is now located. Northeast of the bay and well inland was the Baxter Creek that drained into the bay. The eastern landfall of this embayment area is a larger peninsula that contains roadways and a residential development. The road patterns do not resemble the roadways that currently exist in that area and appear to have been changed.

A 1938 aerial photo showing the construction of the Whitestone Bridge shows the Bay, mooring, residential area and land to the west to be virtually the same as shown in the 1900 map. The significant change is in the widening of the western peninsula where the expressway was being constructed leading to the bridge ramps. The widening was not significant at this time but a rectangular area in the extreme northwest corner of what is now the site appears to be filled and graded – possibly to support construction staging area for the bridge/expressway. Areas of filling can be readily identified in the photograph by the contrasting lighter color typically indicative of sandy dredge sand placement. Other areas along the shoreline can be seen as containing a lighter-colored band of fill material and this includes much of the new Ferry Point Park located west of the Whitestone Bridge. Much of the park area was filled and graded by 1938. Bulkheads were constructed with linear components to present a smooth shoreline but one that does not appear to contain a beach where water diminishes in depth to 0. Photos of the eastern area of the bay where mooring and docks can be seen showing large vessels moored against the shore. This would indicate the water had significant depth all of the way to the center of the bay.

Aerial photographs from the 1950s show a drastic change in the area currently referred to as the site. Large expansion of the filling that was evident in 1938-39 up in the northeast corner can be clearly seen. The filling extends well into the bay and it appears that a connective bridge

[1] *Reference: "Ferry Point Park Golf Course & Community Park, Bronx New York, Final Construction Certification Report, NYSDEC Permit #2-6006-00014 / 00013 (SW)" prepared by the City of New York Department of Parks and Recreation dated October 19, 2015 – a.k.a. the 2015 Final Construction Certification Report*

was constructed from the eastern shore to the fill area. It is difficult to discern if this is a usable structure for crossing or if it had some other purpose. The filling operation appears from the photo to consist of the same light-colored material that was placed in the Ferry Point Park and from photos showing a large number of barges in the water filled with material of the same light color. There is specific documentation that presents the specific origin and consistency of the material. but from the prior aerials showing filling and this large expansion, it appears to be of a similar origin which would be dredge sand. In the 1951 aerial, no specific municipal solid waste dumping and disposal can be seen; however, records indicate the landfill operated during this approximate time period. It is therefore assumed that municipal solid waste was disposed shortly after the photo was taken. The landfilling shown in the aerial may have been the initial construction of the upper portion of the landfill with the tidal gate or bridge closing in the upper bay area. Additional aerials of the landfilling were not identified and more recent aerials document the completion of filling as well as the more recent golf course construction.

What can be discerned from this compilation of photos is that the landfill could be located in an area that may have been open water as well as some area that was previously reclaimed land with dredge material.

The Site operated as a landfill from before 1951 to the 1960s. The landfill reportedly accepted municipal solid waste during its operating period and was closed and covered in the mid-1960s, with additional closure operations conducted more recently in the 1980s. Prior Site use was determined from historic aerial photographs from 1938 thru 1991. The aerial photographs span the entire operational period of the prior landfill, from its initial operations to the present, and provides substantial information about the Site's development.

c. Key Agencies

The following were the key agencies associated with the project providing oversight, administration, design, construction, and monitoring services. The following is not intended to be an exhaustive list of involved entities related to the Project:

Primary Regulatory Agency:
New York State Department of Environmental Conservation Region 2 ("NYSDEC")

Project Permittee:
City of New York Department of Parks & Recreation ("NYCDPR")

Primary Design, Engineering, Construction, and Monitoring Consultants:
Hart Howerton Planning, Architecture and Landscape Architecture, P.C. ("Hart Howerton")
French & Parrello Associates ("FPA")

Independent Environmental Monitor ("IEM"):
Maser Consulting P.A. ("Maser Consulting")
Woodard & Curran ("W&C")

General Contractor:
Golf Course Clubhouse: JCS Construction Group, Inc. ("JCS")

Subcontractor for the SSDS and Liquid Boot® Vapor Barrier Installation:
EAI, Inc. ("EAI")

Golf Course Concessionaire/Operator:
The Trump Organization ("Trump")

See **Appendix B** for a list of project participants.

d. Independent Environmental Monitor

The requirement for an IEM on this project was associated with an increased level of monitoring exceeding normal review and oversight practices of the NYSDEC in order to protect public health and the environment. The increased level of review and oversight for this Project was mainly associated with the effort required for evaluation of fill material sources, source site testing and inspection, importation of the fill material, environmental monitoring required at the clubhouse construction site, and later along the gas main installation route. IEM services were also necessary during the installation of over 200 support piles through the former waste pile located beneath the new Clubhouse.

In accordance with Special Condition 24 of the 2014 Permit (**Appendix A**), NYCDPR was responsible to retain an IEM, accountable to NYSDEC, to provide environmental oversight of activities authorized under the Permit including but not limited to the quantification, importation and placement of fill, and the monitoring of the clubhouse construction site. Particular activities performed by the IEM for this Project included the following:

- Report deviations from or non-compliance with permitted activities to NYSDEC;
- Evaluate and inspect fill sources;
- Evaluate, monitor and mitigate methane intrusions during the installation of steel support pilings for the new clubhouse foundation;
- Witness source site investigation, sampling, and compare lab test results to Permit requirements;
- Visual and Photoionization Detector (PID) inspection of imported fill materials to the Site;
- Monitor offloading of trucks and reject unacceptable materials from being dumped on the Site and used for construction;
- Monitor environmental sampling on the Site (i.e. landfill gas);
- Monitor fill operations on the Site, particularly the installation of minimum thickness of shaping layer and cover layer materials as well as demarcation layer installation;
- Complete and submit Daily Observation Reports to NYCDPR;
- Complete weekly Erosion Control Reports; and
- Attend weekly Construction Progress Report meetings

The selection, continued retention, discharge, or replacement of the IEM was subject to the approval of NYSDEC at its sole discretion.

e. Project and Part 360 Permitting History

The following represents an overview of project and permitting history outlining key events:

On May 21, 2014 NYSDEC issued Permit No. 2-6006-00014 / 000013 for a Solid Waste Management Facility for the Ferry Point Park Golf Course; this permit establishes an IEM. A copy of this permit is provided in **Appendix A**.

On June 12, 2017 the Ferry Point Park SSDS Plan prepared by FPA for the proposed permanent clubhouse was submitted to NYSDEC. A copy of this submittal is provided in **Appendix C**.

On June 22, 2017 NYSDEC issued a letter to The Trump Organization approving the Ferry Point Park SSDS Plan. A copy of this letter is provided in **Appendix D**.

On June 7, 2018 Maser Consulting (through The Trump Organization) submitted a Construction Certification for the SSDS to NYSDEC to allow for the temporary, one-day opening of the new clubhouse on June 11, 2018. A copy of this submittal is provided in **Appendix E**.

On July 2, 2018 NYSDEC issued a review letter with comments on the June 7, 2018 Maser Consulting Construction Certification for the SSDS. A copy of this letter is provided in **Appendix F**.

On July 11, 2018 Maser Consulting provided a letter response to NYSDEC's July 2, 2018 review letter. A copy of this letter response is provided in **Appendix G**.

f. Construction Drawings

Construction drawings for the SSDS are included in **Appendix C**.

II. PART 360 PERMIT

A. Part 360 Permits and Modifications

The following permit was issued for this Project:

NYSDEC Permit No. 2-6006-00014 / 000013 (Solid Waste Management Facility – Ferry Point Park Golf Course, Bronx NY) issued on May 21, 2014 (copy provided in **Appendix A**).

B. Reference Documents

Refer to the 2015 Final Construction Certification Report for a list of Permit reference documents. These documents support the original Permit and/or provide basis for subsequent permits renewals and modifications.

C. Non-Conformance Issues

In accordance with Special Condition 24 of the 2014 Permit, the IEM reported on Permit-related non-conformance issues during the duration of construction of the permanent clubhouse and on the gas main installation project. Non-conforming issues identified during the construction of the new facility were immediately addressed and remedied so that activities were in conformance with applicable plans, specifications and permits.

D. Operational Upsets, Emergencies, and Unusual Circumstances

No evidence of security breaches, unauthorized entries, injuries, fires, theft, vandalism etc. were observed during construction of the permanent clubhouse. The only post-construction upset was related to damage caused to the outdoor lighting system from wildlife borrowing and chewing. Corrective measures were undertaken with normal and routine maintenance actions by The Trump Organization maintenance staff.

E. Reporting

The IEM was responsible for daily and weekly reporting to the NYCDPR regarding the status of the work. The IEM participated in weekly on-site construction meetings and submitted weekly Erosion Control Reports during the construction period. Daily Observation Reports ("DOR") were also submitted to the NYCDPR for review and comment.

The IEM reported to the NYCDPR on a generally daily basis on the following information: weather conditions, fill materials imported to the site, detailed notes of construction activities, and non-conformance issues related to the Permit conditions. Non-conformance issues were immediately addressed by the contractors under the supervision of the IEM. The IEM also reported weekly to the NYCDPR on the construction status and pertinent observations regarding the erosion control measures around the construction site and at the imported soil stockpile area.

DORs are provided in **Appendix I** beginning on July 19, 2017 through February 5, 2019.

F. Authorized Fill Volumes

Imported fill material was derived from two pre-approved sources, one for cover material associated with the new Clubhouse and one for cover material used in the installation of the new 6-inch gas main.

New York Recycling located at 475 Exterior Road, Bronx, NY was the source of the material used for the new Clubhouse. A table in **Appendix K** indicates the volumes of material imported from this facility. This material met the soil quality standards set forth in the Permit requirements. During the course of the importation process, the material was re-sampled in order to reconfirm its quality. Analytical testing data can be reviewed in **Appendix J**. A total of 1,062 cubic yards of material was imported from this source site between November 2017 and March 2018.

Ranco Sand and Gravel located at 151 South Street, Manorville, New York was the source site for materials imported for the gas main installation project. A site source inspection was conducted in advance of the imports and analytical testing was performed to establish that imported material would meet all Permit conditions and requirements. A table in **Appendix L** provides a summary of the imports from Ranco Sand & Gravel. A of total 690 cubic yards of material was imported between September and October 2018.

III. FILL IMPORTATION QA/QC PROGRAM

A. Background

Fill material importation for construction of the permanent clubhouse commenced on November 27, 2017 and the last day for fill import was March 12, 2018. The fill importation QA/QC program implemented for the Project based on the Permit and associated reference documents was adhered to. The fill importation consisted of two main components: source site reviews and on-site inspections. A source site review was conducted by the IEM prior to fill material being imported to the Site and additional visual and PID inspections were completed by the IEM upon the material entering the Site at the IEM inspection area and again once the material was dumped at the work or stockpile location on the Site.

B. Source Site Reviews

Prior to cover layer material being imported to the Site, each potential source was thoroughly evaluated by the IEM. An environmental review was performed for proposed source sites in accordance with Special Condition 24 of the 2014 Permit. The source site review process criteria were specified in the Report on Fill Management, Operations and Maintenance, prepared by TRC on May 16, 2000, and revised June 30, 2005 (Volume #2 of the 2005 Engineering Report). The source site review process was modified over time as compared to the original process outlined in the various engineering reports and permit modification requests. The process generally consisted of the following main components:

- NYCDPR would notify the IEM of a new potential source site. NYCDPR would provide the IEM with the site name and location as well as any available historical site information and soil environmental analytical results that existed for the potential source site.

- Once NYCDPR confirmed that their desire to move forward with pursuing the potential source site, NYCDPR authorized the IEM to retrieve available site information. NYCDPR then completed an initial review of the existing site information, generated a sampling plan, and provided the results of the initial review and sampling plan to the IEM. NYCDPR then authorized the IEM to conduct a desktop review of the existing site information, available soil environmental analytical results, and NYCDPR's sampling plan. The IEM provided NYCDPR with comments related to their review and their sampling plan in consultation with NYSDEC. Once a final sampling plan was agreed upon, the source site investigation was initiated and executed per the NYCDPR sampling plan with IEM oversight. For source sites with in-situ material, test pits

were typically completed with additional soil samples inspected, collected, and analyzed in accordance with the Permit requirements. Once the sampling was completed, the IEM reviewed sample results and the IEM generated a memorandum summarizing the review process and provided recommendations and requirements necessary for NYCDPR to address in order to continue pursuing the potential source site. The recommendations typically included conditions associated with overseeing the excavation, loading, and importing of the source site material to the Site in accordance with the Permit. The IEM submitted the memo of recommendations to NYSDEC for review and comment prior to issuing the final memorandum to NYCDPR. NYSDEC would provide final comments and approval of the source site with any additional required conditions.

- If NYCDPR determined that the potential source site was worth pursuing considering site-specific conditions, schedules, etc., they coordinated with the source site operator and IEM on importation schedule and requirements. The IEM provided oversight to confirm that the loading, hauling, and overall import of the approved material was completed in accordance with the memorandum of recommendations, NYSDEC conditions, and the Permit.

- The IEM provided oversight during export from the approved source sites on an as needed basis and provided oversight at each source site during additional sampling activities if the source site was exporting more than the minimum sampling frequency outlined in the Permit (i.e. 10,000 cubic yards for shaping layer material and 2,000 cubic yards for cover layer material).

If at any time during the review process there were reasons for concern identified by the IEM resulting in the potential source site being classified as a "complex" source site, NYSDEC became the primary reviewer and made final recommendations related to additional site investigation requirements or approval/rejection of the potential source site with support from the IEM. A complex source site was defined by the presence of an abundance of or particular Recognized Environmental Concerns ("RECs") and NYSDEC made decisions related to approval and/or associated conditions for further evaluation or import of the fill material.

For both source sites used in this Construction Project, no complex source site determinations were made.

Details of source site review and site testing activities are included in the report text and specific DORs. Source site review supporting information and testing data is included in the 2015 Final Construction Certification Report.

C. Cover Layer Material

Materials accepted for use as cover layer on the Site were sampled prior to acceptance and after each additional 2,000 cubic yards. As per the 2005 Permit modification, the parameters for cover layer material included the complete analyte list of TAGM 4046 for total VOCs, total SVOCs, total pesticides and herbicides, total PCBs, total metals, sulfur, and asbestos.

Based on source site reviews and site testing activities, the cover layer material imported to the Site met the following chemical limits:

Analyte	Shaping Layer
RCRA Metals (mg/kg = ppm)	
Arsenic	28
Barium	2,000
Cadmium	20
Chromium	1,000
Copper	1,000
Lead	400
Mercury	0.57
Selenium	11
Silver	100
TCLP Metals (mg/l)	
Arsenic	5.0
Barium	100.0
Cadmium	1.0
Chromium	5.0
Lead	5.0
Mercury	0.2
Selenium	1.0
Silver	5.0
Volitile Organic Compounds (mg/kg)	
Acetone	0.2
Benzene	0.06
Benzoic Acid	2.7
2-Butanone (i.e. MEK)	0.3
Carbon Disulfide	2.7
Carbon Tetrachloride	0.6
Chlorobenzene	1.7
Chloroethane	1.9
Chloroform	0.3
Dibromochloromethane	N/A
1,2-Dichlorobenzene	7.9
1,3-Dichlorobenzene	1.6
1,4-Dichlorobenzene	8.5
1,1-Dichloroethane	0.2
1,2-Dichloroethane	0.1
1,1-Dichloroethene	0.4
1,2-Dichloroethene (trans)	0.3
1-3 dichloropropane	0.3
Ethylbenzene	5.5
113 Freon (1,1,2 Trichloro-1,2,2 Trifluoroethane)	6
Methylene chloride	0.1
4-Methyl-2-Pentanone (i.e. MIBK)	1
Tetrachloroethene	1.4
1,1,1-Trichloroethane	0.8
1,1,2,2-Tetrachloroethane	0.6
1,2,3-trichloropropane	0.4
1,2,4-trichlorobenzene	3.4
Toluene	1.5
Trichloroethene	0.7
Vinyl chloride	0.2
Xylenes	1.2
TCLP Volitile Organic Compounds (mg/l)	
Benzene	0.5
Carbon Tetrachloride	0.5
Chlorobenzene	100
Chloroform	6
1,4-Dichlorobenzene	7.5
1,2-Dichloroethylene	0.5
1,1-Dichloroethylene	0.7
Methyl ethyl ketone	200
Tetrachloroethylene	0.7
Trichloroethene	0.5
Vinyl chloride	0.2

Semi-Volatile Organic Compounds * (mg/kg)	
Acenaphthene	N/A
Acenaphthylene	N/A
Aniline	N/A
Anthracene	N/A
Benzo(g,h,i)perylene	N/A
bis(2-ethylhexyl)phthalate	N/A
Butylbenzylphthlate	N/A
4-Chloroaniline	N/A
4-Chloro-3-methylphenol	N/A
2-Chlorophenol	N/A
Dibenzofuran	N/A
3,3'-Dichlorobenzidine	N/A
2,4-Dichlorophenol	N/A
2,4-Dinitrophenol	N/A
2,6 Dinitrotoluene	N/A
Diethylphthlate	N/A
Dimethylphthlate	N/A
Di-n-butyl phthalate	N/A
Di-n-octyl phthlate	N/A
Fluoranthene	N/A
Fluorene	N/A
Hexachlorobenzene	N/A
Isophorone	N/A
2-methylnaphthalene	N/A
2-Methylphenol	N/A
4-Methylphenol	N/A
Naphthalene	N/A
Nitrobenzene	N/A
2-Nitroaniline	N/A
2-Nitrophenol	N/A
4-Nitrophenol	N/A
3-Nitroaniline	N/A
Pentachlorophenol	N/A
Phenanthrene	N/A
Phenol	N/A
Pyrene	N/A
2,4,5-Trichlorophenol	N/A
Dibenzo(a,h)anthracene	10
Benzo(a)pyrene	10
Benzo(a)anthracene	10
Benzo(b)fluoranthene	10
Ideno(1,2,3-cd)pyrene	10
Benzo(k)fluoranthene	10
Chrysene	10
Total SVOCs	500
Total cVOCs	10
Organic Pesticides/Herbicides and PCBs (mg/kg)	
Aldrin	N/A
alpha-BHC	N/A
beta-BHC	N/A
delta-BHC	N/A
Chlordane	N/A
2,4-D	N/A
4,4'-DDD	N/A
4,4'-DDE	N/A
4,4'-DDT	N/A
Dibenzo-P-dioxins (PCDD) 2,3,7,8 TCDD	N/A
Dieldrin	N/A
Endosulfan I	N/A
Endosulfan II	N/A
Endosulfan Sulfate	N/A
Endrin	N/A
Endrin keytone	N/A
gamma-BHC (Lindane)	N/A
gamma-chlordane (trans chlordane)	N/A
Heptachlor	N/A
Heptachlor epoxide	N/A
Methoxychlor	N/A
Mitotane (2,4' DDD)	N/A
Parathion	N/A
PCBs	N/A
Polychlorinated dibenzo-furans (PCDF)	N/A
Silvex	N/A
2,4,5-T	N/A
Total PCBs	10
Total Pesticides	10
Other	
Asbestos	0.50%
Total Sulfur	0.50%

N/A = Not Available
SB = Site Background
* = Total SVOCs must be less that 500ppm. Total carcinogenic SVOCs must be less than 3 ppm if any one of the cSVOCs** exceeds TAGM.
** = cSVOC list includes: Benzo(a)pyrene, Dibenzo(a,h)anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Indeno(1,2,3-cd)pyrene, Benzo(k)fluoranthene, and Chrysene.
*** = Some forms of Cyanide are complex and very stable while other forms are pH dependent and hence are very unstable. Site-specific form(s) of Cyanide should be taken into consideration when establishing soil cleanup objective
**** = Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.
MDL = Method Detection Limit

a. New York Recycling

Details of the New York Recycling (475 Exterior Street, Bronx NY) source site review and site testing for this cover layer material source site are included in the DORs. Analytical sampling and testing was completed at the site in September 2017. A site inspection was performed concurrently with the sampling event.

Approximately 1,062 cubic yards of cover layer material were imported to the Site from this source site for construction of the permanent clubhouse between November 2017 and March 2018. The majority of the material was used to raise the grade elevation in the immediate vicinity of the Clubhouse foundation and the landscape beds surrounding same.

b. Ranco Sand & Stone

The source site review for Ranco Sand & Stone (151 South Street, Manorville NY) consisted of an August 25, 2018 site visit to collect samples of this cover layer material for laboratory analysis; results are included in **Appendix N**. Results indicated that analyzed parameters met the permit standards.

Approximately 690 cubic yards of cover layer material were imported to the Site from this source site for cover material related to the gas main installation project.

D. On-Site Fill Importation Inspections

c. Process

As required under Special Condition 24 of the 2014 Permit, fill importation was inspected at the Site by the IEM. Fill material volume (truck volume) was measured and recorded for each delivery of fill material as it arrived on-site by NYCDPR's appointed representative. The fill material was then inspected by the IEM at the entrance to the Site. At this time, the fill material was visually inspected and field screened for signs of contamination. The visual inspection included observations of the material, disturbing the material with a shovel, and close-up observations of the material retrieved by shovel while still in the truck or trailer. Field screening of the fill material was executed using a PID. If the fill material failed to meet the Permit requirements for reasons such as a PID reading above ambient air, the presence of asphalt, concrete or brick components, or some other unauthorized debris, the load was rejected immediately prior to dumping. If the material was rejected, the truck was not allowed to dump on-site and was directed to exit the site immediately.

During the material imports for the Clubhouse and the gas main installation project, the IEM found no reason to reject the imported loads. Loads met the visual and field screening tests and were subsequently accepted.

If the fill material passed the initial inspection at the IEM observation area, either it was allowed to dump directly at a work location for immediate use as cover layer material or it was transported to, and dumped at, a stockpile location. At the dump location, the IEM screened the fill material visually and with a PID for a second time prior to spreading if dumped at an active work location. If the fill material did not meet the permit requirements at the dump location, it was immediately rejected, loaded back onto the same truck, and transported off-site. During the material imports for the Clubhouse and the gas main installation project, the IEM found no reason to reject the imported loads. Loads met the visual and field screening tests and were subsequently accepted.

d. Trucking Manifests

Trucking manifests were utilized for imported cover layer materials. A three-part manifest form was completed to track each load of material from origination at the source site to destination at the Site. The manifest contained information including but not limited to a manifest number, the source site name and address, the truck driver's name, truck and trailer license plate numbers, volume of material, as well as the time of departure from the source site and arrival time at the Site. Copies of fill import manifests are provided in **Appendix K**.

e. Rejected Trucks & Materials

Materials imported to the Site met the IEM's importation inspections, and none were rejected.

E. Fill Tracking

Testing per 2,000 cubic yards for cover layer material is included in Special Condition 14 of the 2014 Permit).

Cover layer material volumes were tracked based upon the calculated volumes within each truck. This provided for the most accurate and consistent approach to monitoring the volume of imported fill materials. Prior to receipt of the calculated volumes, the IEM tracked estimated volumes as trucks dumped on the Site.

The total volume of cover layer material imported to the Site for construction of the permanent clubhouse was 1,530 cubic yards (truck volume) or 0.39 percent of the authorized amount under the Permit.

F. Total Carcinogenic Semi-Volatile Organic Compound Tracking

As identified in Special Condition 14 of the 2014 Permit, the NYSDEC Acting Regional Director letter dated October 25, 2006 authorized the import of shaping material with a total carcinogenic SVOC (tcSVOC) level of up to 10 parts per million (ppm), which would not otherwise be acceptable, provided the tcSVOC weighted average of all imported material is equal to or less than 3 ppm at the end of each quarter. The tcSVOC weighted average is defined as the sum of the products of the material volume and the material tcSVOC, for each material source, divided by the total volume of the material imported. The weighted average was calculated over the course of construction and the final weighted average for shaping layer and cover layer materials imported to the Site was 0.70 ppm, less than the 3 ppm maximum. The total carcinogenic SVOC weighted average table and computations are included in the 2015 Final Construction Certification Report for materials imported to the Site after November 18, 2005.

SVOCs were sampled for New York Recycling on September 28, 2017. The tcSVOC level did not exceed 10 ppm. A copy of the laboratory report is provided in **Appendix J**.

SVOCs were sampled for Ranco Sand & Stone on August 25, 2018. The tcSVOC level did not exceed 10 ppm. A copy of the laboratory report is provided in **Appendix N**.

IV. PERMANENT CLUBHOUSE CONSTRUCTION

A. General

From July 2017-September 2018, Trump Golf Links at Ferry Point constructed a permanent clubhouse facility. The 14,100 square foot one-story building is located in the far southern section of the Site (immediately west of the 18th fairway) and includes locker rooms, showers, a bar room, a kitchen and associated facilities, ballrooms, administrative offices and a golf pro shop. The Trump Organization contracted with JCS Construction, Inc. to build this facility on piles, as it was formerly a landfill.

B. Environmental Controls / Construction

a. Landfill Gas Monitoring

Steel beams were driven to intermediate depths of approximately 40 feet, welded to another steel beam of the same length, driven to completion depths of approximately 75 feet, then cut to grade. Prior to welding/cutting, the piles were checked at the inlet (i.e. ground surface elevation) with a four-gas MiniRAE Meter. The meter alarm was triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) were above OSHA exposure limits; the alarm was not triggered for the vast majority of field activities, and on the few occasions when triggered, soil was placed over the inlet until the meter alarm was not triggered prior to welding/cutting activities. As an added measure of protection, when the meter alarm activated, explosion-proof industrial ventilation fans were activated to vent the work area and disperse gases emanating from the subsurface.

b. Imported Soils Monitoring

Fifty-nine (59) loads of soil (approximately 1,062 cubic yards) were imported from New York Recycling, a donor source located at 475 Exterior Street in the Bronx; and 27 loads of soil (approximately 690 cubic yards) were imported from Ranco Sand & Stone, a donor source located at 151 South Street in Manorville NY. Air monitoring performed during the course of the workday revealed no detections above background on the PID. Visual observation and PID monitoring of each load of soil from New York Recycling and from Ranco Sand & Stone showed no evidence of VOCs or visual signs of debris within the material.

C. Municipal Solid Waste

A Royal Carting commercial municipal solid waste (MSW) six-yard container was available on Site during the duration of clubhouse construction activities. MSW was not encountered or generated during digging, earth-moving or excavation activities associated with the new clubhouse or the gas main installation activities.

D. Earthwork / Fill Placement

Earthwork and fill placement for this Project were performed in accordance with the Permit.

a. Cover Layer Material

Cover layer material was installed at the Site in accordance with the 2014 Permit (**Appendix A**).

Imported soil from New York Recycling and from Ranco Sand & Stone was backfilled and graded around the perimeter of the concrete sub-structure. The soil from New York Recycling was characterized as brown fine-coarse sand with occasional crushed stone roughly 1-1.5 inches in diameter. Materials imported from Ranco Sand & Gravel was characterized as clean, well-rounded white to gray medium sands.

b. Topsoil

Topsoil was used on the Site (in lieu of sand) specifically in tree planting pits and other landscape areas. Topsoil was imported from commercially available sources (i.e. Home Depot) and used on the Site as approved. This material met the cover layer material Permit requirements including the specification included in the 2014 Permit.

E. Meetings

On a weekly basis during construction of the permanent clubhouse, progress meetings were held in the JCS field office trailer or in the temporary clubhouse on site. Various representatives from NYCDPR, the Trump Organization, JCS and the IEM (Maser Consulting) attended the meetings to discuss construction progress, current issues and scheduling.

Available meeting minutes from construction progress meetings are provided in **Appendix M**.

F. SSDS / Liquid Boot® Installation

From November 2-7, 2017 the SSDS was installed. Lateral collection piping was laid, and the SSDS pits were excavated and connected to the lateral collection piping. The IEM provided oversight, including taking measurements of the as-built SSDS component installed locations for use in this report.

Stone cover was then poured over the SSDS prior to Liquid Boot® installation.

From November 8-15, 2017 the stone cover was lined (base fabric), sprayed with Liquid Boot®, and allowed to cure. Smoke testing was then performed, with leaks identified and resprayed. Coupon samples were measured to ensure that the cured thickness met the design requirement. Once smoke testing, coupon measurements and leak repairs were complete, a cover fabric was placed over the floor footprint prior to pouring the slab.

On two separate occasions after the initial spraying, curing and smoke testing of the vapor barrier, repairs had to be made to the barrier layer. IEM observations of damage to the cover fabric provided the impetus for additional spraying and testing. The first event took place in January/February of 2018 when weather conditions and mild temperatures prevailed. A final smoke test and barrier layer repair took place before the concrete floor was poured and once the Clubhouse was being enclosed. During both re-spray events, defects were located, repaired and re-tested for integrity. Like the previous smoke tests, the final smoke test indicated no signs of vapor barrier leaks, tears or defects.

On one occasion, Liquid Boot® was sprayed at temperatures below the recommended 45 degrees F. However, it was determined by experienced applicators and inspectors—based on site specific conditions—that the curing of the spray was acceptable. See documentation from CETCO/Minerals Technologies (the Liquid Boot® manufacturer) dated November 9, 2017 (**Appendix P**).

A letter of completion provided by EAI is provided in **Appendix P**.

G. Six-Inch Gas Main Construction

In July 2018, the existing 2-inch gas service line was determined by FPA engineers to be insufficient to support the demands of the new Clubhouse facility. A new 6-inch gas main was required to meet the demand. Installed between August and October 2018, the new main provides sufficient volumes of natural gas to support the new Clubhouse facility and its amenities.

The new gas line was connected to a Con Ed main located on Schley Drive, north of the golf course. The new pipeline runs along the western perimeter of the site along fairways #6, #7 and #8. The line doglegs to the west side of the maintenance area and generally follows the service cart path along the west side of the property. The line turns to the east toward the new Clubhouse in the general vicinity of the parking lot.

The service connection to the Clubhouse is located in a vault approximately 50 feet west of the Clubhouse, near the driveway entrance.

Architect drawings for this gas main are provided in **Appendix Q**. DORs are provided in **Appendix R** beginning on August 24, 2018 through October 22, 2018.

H. Record Drawings & Deviations from Approved Design Plans

The permanent clubhouse project consisted of the following features and was designed by Hart Howerton and FPA:

- Golf pro shop
- Women's and men's locker rooms
- Dining room
- Bar/grill
- Kitchen
- Terraces
- Offices
- Vestibule and porch
- SSDS/Vapor Barrier

Deviations to the permanent clubhouse construction project were as follows:

- Drawing No. FO-500.00 "Vapor Remediation Underslab Plan" – lateral piping to SSDS pits DP-2B & DP-2C built approximately 2 feet offset from design due to piping conflicts
- Drawing No. FO-501.00 "Vapor Remediation Floor Plan" – riser piping for fan units SF-1 & SF built within walls to conceal system and prevent unauthorized access; gas sensors in Hall 124, Vestibule 101 & Electrical 113 ceilings built approximately 3-5 feet from design due to piping conflicts; monitoring point MP-1 built approximately 9 feet from design due to piping conflicts; monitoring point MP-8 built approximately 50 feet from design due to piping conflicts; monitoring point MP-9 built approximately 14 feet from design due to piping conflicts; monitoring point MP-10 built approximately 14 feet from design due to piping conflicts; monitoring point MP-2 was installed at the location shown in the Plan, however, it appears to have been tiled-over and is no longer accessible as a sampling point
- Drawing No. FO-502.00 "Vapor Remediation Attic & Mezzanine Plan" – fan unit SF-1 built approximately 10 feet to the left of design due to piping conflicts
- Drawing No. FO-504.00 "Vapor Remediation Details" – detail 1B built using hollow (instead of solid) concrete blocks; 'Methane Gas Sensor Detail (option 1)' & 'Methane Gas Sensor Detail (option 2)' added for sensor plenum boxes
- Drawing No. SD201 "Methane Monitoring System Ceiling Plan (As Built)" – methane gas sensor S16 built approximately 5 feet from design due to piping conflicts; methane gas sensor S19 built approximately 4.5 feet from design due to piping conflicts; methane gas sensor S28 built approximately 5 feet from design due to piping conflicts

Copies of the drawings issued for construction are provided in **Appendix C**. Copies of the drawings showing deviations from design are provided in **Appendices E and O**.

V. ENVIRONMENTAL MONITORING

A. Stormwater Pollution Prevention Plan (SWPPP)

The IEM performed weekly erosion control inspections to ensure compliance with Permit requirements. Erosion control inspections were carried out through the duration of permanent clubhouse construction. The SPDES permit remained effective until completion of ongoing construction including the permanent clubhouse. Copies of erosion control inspection reports are provided in **Appendix H**.

B. Landfill Gas Monitoring

NYCDPR will implement post-construction monitoring necessary to fulfill the requirements of the Post-Construction Custodial Care Plan for landfill gas monitoring per the 2015 Final Construction Certification Report.

VI. SUMMARY

Construction of a permanent clubhouse in the southern corner of the Site began in July 2017 and was substantially completed in October 2018. Activities included clearing and grubbing, excavation, installation of support pilings, grading, importation of fill material, construction of the permanent clubhouse with a protective vapor barrier system and associated SSDS and associated appurtenances, installation, testing and calibration of an interior methane detection system, installation of utilities and infrastructure, installation of plantings, and installation of a new gas main. A representative of the IEM was present during construction activities. For this project, fill importation and SSDS/Vapor Barrier construction followed the Permit and NYSDEC requirements as documented in the DORs as summarized herein.

VII. CERTIFICATION

Certification Statement

I, Donald Bowman, an employee of Maser Consulting P.A. and a Registered Professional Engineer licensed by the State of New York, exercising independent judgment and discretion do hereby certify that this Subslab Depressurization System (SSDS) for the Trump Golf Links at Ferry Point Clubhouse was constructed under my direction and supervision. The information contained herein is based upon: (1) work which I have personally inspected both during and after construction from July 2017 to date; (2) information provided to me by those directly employed by Maser Consulting P.A.; (3) Design Consultants; and (4) contractors responsible for construction pursuant to their contracts except as indicated[2].

I certify that, from July 2017 to date, Maser Consulting representatives observed the installation of the critical elements of the SSDS for the Trump Golf Links at Ferry Point Clubhouse, with the following deviations from design:

- Drawing No. FO-500.00 "Vapor Remediation Underslab Plan" – lateral piping to SSDS pits DP-2B & DP-2C built approximately 2 feet offset from design due to piping conflicts
- Drawing No. FO-501.00 "Vapor Remediation Floor Plan" – riser piping for fan units SF-1 & SF built within walls to conceal system and prevent unauthorized access; gas sensors in Hall 124, Vestibule 101 & Electrical 113 ceilings built approximately 3-5 feet from design due to piping conflicts; monitoring point MP-1 built approximately 9 feet from design due to piping conflicts; monitoring point MP-8 built approximately 50 feet from design due to piping conflicts; monitoring point MP-9 built approximately 14 feet from design due to piping conflicts; monitoring point MP-10 built approximately 14 feet from design due to piping conflicts; monitoring point MP-2 was installed at the location shown in the Plan, however it appears to have been tiled-over and is no longer accessible as a sampling point
- Drawing No. FO-502.00 "Vapor Remediation Attic & Mezzanine Plan" – fan unit SF-1 built approximately 10 feet to the left of design due to piping conflicts
- Drawing No. FO-504.00 "Vapor Remediation Details" – detail 1B built using hollow (instead of solid) concrete blocks; 'Methane Gas Sensor Detail (option 1)' & 'Methane Gas Sensor Detail (option 2)' added for sensor plenum boxes

[2] Certification means a statement of professional opinion based upon investigation, analysis, knowledge and belief that is stated to be true and accurate. 6 NYCRR Part 360-1.2(b)24.

- Drawing No. SD201 "Methane Monitoring System Ceiling Plan (As Built)" – methane gas sensor S16 built approximately 5 feet from design due to piping conflicts; methane gas sensor S19 built approximately 4.5 feet from design due to piping conflicts; methane gas sensor S28 built approximately 5 feet from design due to piping conflicts

STATE OF NEW YORK
DONALD F. BOWMAN
No. 095674
LICENSED PROFESSIONAL ENGINEER

Donald Bowman, P.E.
Maser Consulting P.A.

11/26/2019
Date

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Bally's Bronx
Ferry Point Park Golf Course and Community Park
New York Final Construction Certification Report
Prepared by: New York City Department of Parks and Recreation

LANGAN

NYC Parks

City of New York Department of Parks and Recreation

Ferry Point Park Golf Course & Community Park
Bronx, New York

Final Construction Certification Report
NYSDEC Permit #2-6006-00014 / 00013 (SW)
October 19, 2015

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1 Introduction

1.1 Purpose

This Final Construction Certification Report for the Ferry Point Park Golf Course is submitted to the New York State Department of Environmental Conservation upon completion of the construction of Ferry Point Park East, a solid waste management facility, which includes the resultant information prepared in accordance with 6NYCRR Part 360 of the New York State Solid Waste Management Program.

This report is to certify that the construction of Ferry Point Park East has been completed in accordance with the 6NYCRR Part 360 and the Ferry Point Park Part 360 permits. Therefore, this report will present in great detail each specific approved component of the project – what was approved, what was actually constructed initially (with pictures), the changes that were made, and the final status and design as of the date of this report (with pictures).

1.2 Report Organization

This report has been generated to provide a written post-construction certification report to comply with the requirements of the Project's Part 360 Permits. The narrative and supporting information provided in this report have been organized such that any individual, especially those not familiar with the project, can gain a concise understanding of the history of improvements at the Site. As such, the report has been organized into the following sections:

- This report begins with this introductory chapter (Section 1) which briefly describes the purpose and scope of the project, provides details pertaining to the Site background including a Site description, key agencies involved, and Project and permitting history.

- Section 2 describes the Part 360 Permits and modifications, Permit reference documents, non-conformance issues, operational upsets, emergencies, and unusual circumstances, and reporting completed associated with the Project.

- Section 3 details the fill importation QA/QC program, specifically source site reviews for shaping layer and cover layer material, on-site fill importation inspection, trucking manifests, rejected trucks and materials, fill tracking, and total carcinogenic semi-volatile organic compound tracking.

- Section 4 provides details related to construction activities on-site including construction of the Community Park and the Golf Course, status of the Waterfront Park, environmental controls such as landfill gas wells, groundwater wells, liners, gas venting systems, vent trench, landfill cap, municipal solid waste handling, earthwork and fill placement, demarcation layer, miscellaneous golf course materials such as greens and tees mix, construction progress meetings, and deviations from the approved design plans and/or Permit requirements with as-built surveys.

- Section 5 details the environmental monitoring completed during the Project including Stormwater Pollution Prevention Plan (SWPPP), landfill gas, piezometer, settlement plate, and groundwater monitoring as well as information related to the deed restriction and post construction monitoring requirements at the Site.

- Section 6 provides a summary of the report.

- Report certification is provided in Section 7.

1.3 Background Information

1.3.1 Project Scope

Ferry Point Park in the Bronx (the "Site") is a former landfill covering 222 acres that is bounded by the Bronx-Whitestone Bridge and Hutchinson River Parkway to the west, Balcom, Miles, and Emerson Avenues to the east, Schley Avenue and St. Raymond's Cemetery to the north, and the East River to the south (See Figure 1-1 Ferry Point Park Project Area Map). The project was originally managed under Ferry Point Partners, LLC and was taken over solely by the City of New York Department of Parks and Recreation in October 2007.

The original project scope (the "Project") included the construction of three main elements including a golf course, a community park, and a waterfront park over the 222-acre Site (see Figure 2-1 Ferry Point Park Site Layout) as follows:

1. An 18-hole golf course with practice facility, driving range, clubhouse, maintenance facility, irrigation lake, stormwater retention ponds, and a parking lot (192.5 acres);
2. A passive recreation waterfront park with walkways and a comfort station (19.5 acres); and
3. A community park with baseball fields, basketball court, walkways, comfort station, and landscaped stormwater retention area (10 acres).

1.3.2 Project Site

The origins of the site for purposes of presenting a description of the site and surrounding area for this report extend back to the early 1900's. At that time an available 1900 map of the Bronx (Figure 2-2) showed the western edge of the site which now contains the expressway and Whitestone Bridge was a long narrow peninsula extending out to the same area that the northern landing of the Whitestone Bridge now extends to. Immediately east of this peninsula was a large open bay which is the area that the Ferry Point Golf Course is located within. Further to the northeast of this bay and well inland and beyond the current golf course was the Baxter Creek that drained into the bay. The eastern landfall of this embayment area is a larger peninsula that contains roadways and what appears to be residential development. The road patterns do not resemble the roadways that currently exist in that area and appear to have been changed.

A 1938 aerial photo (Figure 2-3) showing the construction of the Whitestone Bridge shows the Bay, mooring, residential area and land to the west to be virtually the same as shown in the 1900 map (Fig. 2-2). The significant change is in the widening of the western peninsula where the expressway was being constructed leading to the bridge ramps. The widening was not significant at this time but a rectangular area in the extreme northwest corner of what is now the site does appear to be filled and graded possible for bridge and expressway construction staging or support. Areas of filling can be readily identified by the contrasting lighter color typically indicative of sandy dredge sand placement. Other areas along the shoreline can be seen as containing a lighter colored band of fill material and this includes much of the new Ferry Point Park located west of the Whitestone Bridge. Much of the park area was filled, graded and completed by 1938. Bulkheads were constructed with linear components to present a smooth shoreline but one that does not appear to contain a beach where water diminishes in depth to 0. Photos of the eastern area of the bay where mooring and docks can be seen showing large vessels moored against the shore. This would indicate the water has significant depth all of the way to the center of the bay.

Aerial photographs from the 1950's (Figure 2-4) show a drastic change in the area currently referred to as the site. Large expansion of the filling that was evident in 1938-39 up in the northeast corner can be clearly seen. The filling extends well into the bay and it appears that a connective bridge was constructed from the eastern shore to the fill area. It is difficult to discern if this is a usable structure for crossing or if it had some other purpose. The filling operation appears from the photo to consist of the same light colored material that was placed in the Ferry point Park and from photos showing a large number of barges in the water filled with material of the same light color. There is no specific logs and documentation that presents the specific origin and consistency of the material but from the prior aerials showing filling and this large expansion, it appears to be of a similar origin which would be dredge sand. In the 1951 aerial, no specific municipal solid waste dumping and disposal can be seen but the records indicate the landfill operated from this approximate time period. So it can be assumed that municipal solid waste was dumped within the site area very soon after that. The filling shown in the aerial may very well have been the initial construction of the upper portion of the landfill with the tidal gate or bridge closing in the upper bay area. Additional aerials of the landfilling were not identified and more recent aerials document the completion of filling as well as the more recent golf course construction.
What can be discerned from this compilation of photos is that the landfill was located on area that may have been completely filled open water as well as some area that was previously reclaimed land with dredge material.

The Site operated as a landfill from before 1951 to the 1960's. The landfill reportedly accepted municipal solid waste during its operating period and was closed and covered in the mid-1960's, with additional closure operations conducted more recently in the 1980's. Prior Site use was determined from historic aerial photographs from 1951 thru 1991. The aerial photographs span practically the entire operational period of the prior landfill, from its initial operations to the present, and provides substantial information about the Site's development.

1.3.3 Key Agencies

The following were the key agencies associated with the project providing oversight, administration, design, construction, and monitoring services. The following is not intended to be an exhaustive list of involved entities related to the Project. A more extensive list of project participants is included in Appendix 18.

Primary Regulatory Agency:
New York State Department of Environmental Conservation Region 2 ("NYSDEC")

Project Permittee (Prior to October 2007):
Ferry Point Partners, LLC ("FPP")
City of New York Department of Parks and Recreation ("NYCDPR")

Project Permittee (Post October 2007):
City of New York Department of Parks and Recreation ("NYCDPR")

Primary Design, Engineering, Construction, and Monitoring Consultants:
Sanford Golf Design ("Sanford")
Nicklaus Design ("Nicklaus")
TRC Companies, Inc. ("TRC")
Langan Engineering & Environmental Services, Inc. ("Langan")
Ecology and Environment, Inc. ("E&E")
KS Engineers PC ("KSE")
Wesler Cohen Associates ("WCA")
The Pignato Group ("TPG")
Thomas Balsley Associates ("TBA")
Green Bases, Inc. ("GBI")

Independent Environmental Monitor ("IEM"):
ARCADIS/Geraghty & Miller (July 2000 – December 2000)
Gannett Fleming (December 2000 – October 24, 2010)
Woodard & Curran ("WC") (October 25, 2010 – Project Completion)

General Contractor:
Golf Course and Community Park: LAWS Construction Corp. ("LAWS")
Community Park Comfort Station: TJM Construction Corp. / Long Island Concrete, Inc.
Golf Course Maintenance Building, Rain Shelter, Comfort Station: Triton Structural Concrete, Inc.
Golf Course Cover Layer Material Importation: MFM Contracting Corp.

Golf Course Concessionaire/Operator:
The Trump Organization ("Trump")

1.3.4 Independent Environmental Monitor

The requirement for an Independent Environmental Monitor ("IEM") on this project was associated with an increased level of monitoring exceeding normal review and oversight practices of the NYSDEC in order to protect public health and the environment. The increased level of review and oversight for this Project was mainly associated with the extensive effort required for evaluation of fill material sources, source site testing and inspection, importation of the fill material, extensive earthwork, and environmental monitoring required at the 222-acre Site.

In accordance with Special Condition 24 of the 2014 Permit, NYCDPR was responsible to retain an IEM, accountable to the NYSDEC, to provide environmental oversight of all activities authorized under the Permit including but not limited to the quantification, importation and placement of fill, and the monitoring of the Site. Particular activities performed by the IEM for this Project included the following:

- Report deviations from or non-compliance with permitted activities to the NYSDEC;
- Evaluate and inspect fill sources;
- Witness source site investigation, sampling, and compare lab test results to Permit requirements;
- Visual and Photo-Ionization Detector (PID) inspection of imported fill materials to the Site;
- Monitor offloading of all trucks and reject unacceptable materials from being dumped on the Site and used for construction;
- Monitor environmental sampling on the Site (i.e. landfill gas, piezometer, groundwater, settlement, etc.);
- Monitor all aspects of fill operations on the Site, particularly the installation of minimum thickness of shaping layer and cover layer materials as well as demarcation layer installation; and
- Complete and submit to the NYSDEC Daily Observation Reports, bi-weekly Fill Management Reports, and Quarterly Reports related to Project activities.

The selection, continued retention, discharge, or replacement of the IEM was subject to the approval of the NYSDEC, at its sole discretion.

1.3.5 Project and Part 360 Permitting History

The following represents an overview of project and permitting history outlining key events associated with the Project. For more detailed and additional supporting information, reference the updated Permit Modification application package titled "Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East", dated May 31, 2012 and subsequently revised on August 31, 2012, June 20, 2013, and October 15, 2013 ("2013 Engineering Report") included in Appendix 20.

In May 1997, a Request for Proposals was released for the development of the Site. In May of 1998 Ferry Point Partners, LLC ("FPP") was selected as the developer and in the late May 2000, the City of New York Department of Parks and Recreation ("NYCDPR") initially entered into a license agreement with FPP to develop, construct, and operate the new recreation facility. The facility included a Jack Nicklaus signature golf course, a community park, a waterfront park, and related facilities (the "Project"). At that time, all required reviews for the Project were completed under the City Environmental Quality Review (CEQR),

State Environmental Quality Review Act (SEQRA), and New York City's Uniform Land Use Review Procedure (ULURP).

On July 17, 2000, the NYSDEC issued a Part 360 Solid Waste Management Permit (DEC No. 2-6006-00014-00011) (the "2000 Permit") jointly to NYCDPR and FPP (the "Permittee"), for a non-specific "facility" under Part 360-1.9(b) at the Site (see Appendix 1 for a copy of the permit). This permit allowed the Permittee to import and place fill necessary to construct the Project. This permit allowed for 1,000,000 cubic yards of fill material (in-place volume) to be imported and placed on the Site. The Permittee prepared an Engineering Report, dated April 11, 2000 and a Report on Fill Management Operations & Maintenance, dated May 16, 2000 as part of the permit application.

After the receipt of the original Part 360 Permit in July 2000, FPP entered into a contract with LAWS Construction Company, Inc. (the "Contractor") to construct the golf course, parks and other features of the Project, and to identify, secure and import the off-site fill material to be used to meet the design elevations of the grading plans referenced in the 2000 Permit.

Initially ARCADIS/Geraghty & Miller, Inc. was retained as the IEM. ARCADIS/Geraghty & Miller, Inc. was retained as the IEM for a period from July 2000 to December 2000 and was replaced as the IEM by Gannett Fleming Engineers and Architects, P.C. in December 2000.

FPP began importing fill to the Site in August 2000 and continued, with some interruptions, until January 2002 when fill deliveries were halted pending the modification of the 2000 Permit.

On January 10, 2001, the NYSDEC issued a letter addressing quality control protocol for potential sources of material from sites that previously experienced backfilling with soil, but not with waste materials, for the use in the shaping layer.

On May 21, 2001, the NYSDEC issued a Fill Procurement Protocol letter addressing acceptance of uncontaminated, unprocessed construction and demolition debris ("C&D") from registered C&D processing facilities.

On May 24, 2001, the NYSDEC issued a Fill Procurement Protocol letter addressing paragraph b in the May 21, 2001 letter and clarifying the definition of processed material.

From May to December 2001, based on the results of the Site perimeter methane gas monitoring, the NYSDEC required the construction of a landfill gas passive vent trench along most stretches of the Site perimeter from the water's edge near the foot of Emerson Avenue, along the entire length of the Site boundary with Balcom Avenue, and along Schley Avenue and continuing approximately 1,050 feet to the west past the intersection of Schley Avenue and Buttrick Avenue. In total, approximately 5,350 feet of passive vent trench was constructed (see Section B.3.a of Volume #1, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx,

NY, Engineering Report, dated June 30, 2005 (revised) for additional information). Additional discussion related to the vent trench construction is included in Sections 4.2.4 and 4.6 of this report.

In February 2002, the Permittee requested a modification to the 2000 Permit to increase the volume of in-place fill to approximately 1,550,000 cubic yards and changes in design features. The Permittee prepared a Supplement to the Engineering Report, dated February 11, 2002 and a Response to Request for the Additional Information, dated July 2, 2002 as part of the permit modification.

On October 18, 2002, the NYSDEC issued a Part 360 Solid Waste Management Permit (DEC No. 2-6006-0014-00013) (the "2002 Permit") to allow the Permittee to place 1,522,300 cubic yards of in-place fill on the Site (see Appendix 1 for a copy of the permit modification). Prior to October 18, 2002, 446,500 cubic yards of shaping material had been imported to the Site.

After the NYSDEC issued the 2002 Permit in October 2002, FPP resumed importing fill to the Site. The importation of fill to the Site was performed in accordance with the 2000 Permit, the 2002 Permit, the 2000 Fill Report and the Fill Procurement Protocol per the NYSDEC letters dated January 10, 2002, May 21, 2001 and May 24, 2001.

On December 10, 2002, NYCDPR submitted the Response Action Plan ("RAP") as required by Special Condition 31 of the 2002 Permit. A copy of the RAP is included in Appendix 19.

On March 10, 2003, NYCDPR submitted a proposal to the NYSDEC to repair and replace methane monitoring system components. A copy of the proposal is included in Appendix 19.

In response to NYCDPR's March 10, 2003 request to repair and replace methane monitoring system components, the NYSDEC approved replacement of 34, 25-foot spaced, semi-permanent monitoring wells with eighteen, 50-foot spaced, monitoring wells along Miles and Emerson Avenues, in accordance with Special Condition #37 of the 2002 Permit, on March 17, 2003. Installation of the replacement monitoring wells was completed in May 2003.

On November 18, 2003, the NYSDEC approved the Work Plan for the Final Consent Order, Case No. R2-20030724-187, dated November 18, 2003. This provided for the placement on Site of the solid waste material excavated during the construction of the gas venting trench, the size reduction of concrete on Site, and the processing and composting of existing wood on Site. The solid waste material was moved and placed in January 2004 and the processing and composting of the wood was completed in the spring of 2004. A copy of the approval is included in Appendix 19.

On January 12, 2004, the NYSDEC transmitted a copy of the executed Order on Consent No. R2-20030724-187 to NYCDPR. A copy of the fully executed consent order is included in Appendix 19.

On November 1, 2004, the NYSDEC approved the revised truck compaction factor of 42.4% based on the October 10, 2003 30% aerial topographic survey as was required per the 2002 Permit.

On December 7, 2004, the NYSDEC approved the revised truck compaction factor of 41% based on the July 17, 2004 60% aerial topographic survey as was required per the 2002 Permit.

In May 2005, the Permittee requested a modification to the permit to increase the volume of in-place fill to approximately 2,370,000 cubic yards among other items in order to reshape the Golf Course related to a revised design by the golf course architect. The Permittee prepared Volume #1, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY, Engineering Report, prepared by TRC Raymond Keyes Associated dated June 30, 2005 (revised) and Volume #2, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY, Engineering Report, prepared by TRC Raymond Keyes Associated dated June 30, 2005 (collectively known as the "2005 Engineering Report"). A copy of the 2005 Engineering Report is included in Appendix 20.

On August 2, 2005, NYCDPR responded to NYSDEC comments on the previously submitted June 30, 2005 Permit Modification and Engineering Report. A copy of the comment response is included in Appendix 19.

On November 18, 2005, the NYSDEC issued the modified Part 360 Solid Waste Management Permit (No. 2-6006-00014/00013) to place a total of 2,543,729 cubic yards of in-place fill on the Site (see Appendix 1 for a copy of the permit modification). This action was followed by a December 27, 2005, revision (No. 2-6006-00014/00013) that amended the total in-place fill volume to 2,370,000 cubic yards (the "2005 Permit").

On April 4, 2006, NYCDPR submitted a request for a determination related to cover layer material chemical criteria to the NYSDOH. On August 2, 2006, the NYSDOH provided written determination related to fill material chemical criteria required under Permit Special Condition 15(d) of the 2005 Permit. The submission and response are included in Appendix 19.

On October 25, 2006, the NYSDEC authorized the importation of shaping layer material from otherwise allowable sites with a total carcinogenic SVOC level in exceedance of the site limit, but 10 ppm or lower provided that a weighted average equal to or less than 3 ppm would be achieved by the end of each quarter of each year. A copy of the correspondence is included in Appendix C.1 of the 2013 Engineering Report (Appendix 20).

On October 26, 2007, the NYCDPR terminated the license agreement with Ferry Point Partners, LLC and took over site development activities. Ferry Point Partners, LLC was no longer involved with the Project or a Permittee.

On February 29, 2008, FPP submitted an application to the NYSDEC to transfer the Part 360 Permit solely to NYCDPR.

On July 25, 2008, a permit renewal application package to the 2005 Permit was submitted by NYCDPR. This submittal requested a modification of the 2005 Permit to allow the use of dredge and processed dredge material (PDM) as fill and the barge delivery of such fill material to the Site.

On August 12, 2008, the NYSDEC notified NYCDPR and FPP that the Part 360 Permit had been transferred to NYCDPR.

On October 24, 2008, the NYSDEC issued a Notice of Incomplete Application and comments to the July 25, 2008 submittal.

On December 2, 2008, the NYSDEC issued a letter to advise NYCDPR that the 2005 Part 360 Permit (with the corresponding November 30, 2008, expiration date) remained in full force and effect until NYSDEC approved the permit renewal application, as per Section 401(2) of the State Administrative Procedure Act (SAPA). See Appendix A of the 2013 Engineering Report (Appendix 20) for a copy of the SAPA letter.

On December 26, 2008, a response to NYSDEC's comments of October 24, 2008 was submitted by NYCDPR with a supplemental permit application package to the 2005 Permit.

On April 8, 2009, the NYSDEC issued comments to the December 26, 2008, permit application submittal. A copy of the comment letter is included in Appendix 19.

On April 9, 2009, the NYCDPR withdrew its request for a permit modification to allow the use of Processed Dredged Material ("PDM") as fill.

On April 30, 2009, the NYSDEC directed NYCDPR to not accept or place on the Site any cover layer materials with arsenic concentrations greater than 16 ppm or lead concentrations greater than 400 ppm. A copy of the correspondence is included in Appendix C.2 of the 2013 Engineering Report (Appendix 20).

On July 9, 2009, NYCDPR submitted proposed cover layer material chemical criteria to NYSDEC for review and approval. A copy of the correspondence is included in Appendix C.3 of the 2013 Engineering Report (Appendix 20).

On July 28, 2009, the NYSDEC notified NYCDPR that cover material is divided between two classifications: Active (suitable for use in Active or Passive Recreation areas), and Passive (suitable for use in Passive Recreation areas only). NYSDEC provided a table to NYCDPR listing modified heavy metal chemical limits for the cover layer at the Site. A copy of the correspondence is included in Appendix C.2 of the 2013 Engineering Report (Appendix 20).

On September 18, 2009, NYCDPR submitted rationale for a revised shaping layer correction factor based on the latest survey and fill imports volumes at that time. A December 11, 2012 letter evaluating the September 18, 2009 submittal was also submitted to the NYSDEC. The submissions are included in Appendix 19.

On September 25, 2009, the NYSDEC revised and clarified the chromium chemical limits for the cover layer previously presented in the July 28, 2009 correspondence. A copy of the correspondence is included in Appendix C.2 of the 2013 Engineering Report (Appendix 20).

On November 25, 2009, a response to NYSDEC's comments of April 8, 2009, was submitted by NYCDPR with a second supplemental permit application package to the 2005 Permit. This submittal withdrew the request to allow the use of dredge material and PDM as fill and the barge delivery of such fill material to the Site. This submittal also proposed a design modification for a Site-wide active landfill gas control system. The 2005 Permit included passive venting systems for the Site, with active systems proposed only in enclosed structures. The November 25, 2009 permit renewal application is included in Appendix 20.

On June 25, 2010, the NYSDEC issued a Notice of Incomplete Application and comments on the November 25, 2009, permit application submittal. A copy of the correspondence is included in Appendix J of the 2013 Engineering Report (Appendix 20).

On August 6, 2010, the NYSDEC issued additional comments on the November 25, 2009, permit application submittal. A copy of the correspondence is included in Appendix J of the 2013 Engineering Report (Appendix 20).

On September 29, 2010, a response to NYSDEC's comments of June 25 and August 6, 2010, was submitted by NYCDPR with a third supplemental permit application package for the 2005 Permit. This submittal withdrew the proposed design modification of a Site-wide active landfill gas control system and proposed a system consistent with the 2005 Permit. A copy of the correspondence is included in Appendix J of the 2013 Engineering Report (Appendix 20).

On October 7, 2010, a supplemental response to NYSDEC's comments of June 25 and August 6, 2010, was submitted by NYCDPR to accompany the September 29, 2010, permit renewal application submittal. A copy of the correspondence is included in Appendix J of the 2013 Engineering Report (Appendix 20).

On October 25, 2010, Woodard & Curran replaced Gannett Fleming, assuming the duties of the IEM for the Project.

On December 17, 2010, NYCDPR submitted supplemental information to the NYSDEC related to the Landfill Gas Report originally submitted to the NYSDEC on November 16, 2010 to address requests from the NYSDEC from a December 2, 2010 meeting. The November 2010 Landfill Gas Report and the December 17, 2010 supplemental information are included in Appendix E of the 2013 Engineering Report (Appendix 20).

On January 3, 2011, the NYSDEC issued a letter directing NYCDPR to collect and provide additional landfill gas data to better elucidate the subsurface conditions at a frequency described in the 2005 Permit. The letter requested that NYCDPR expand the landfill gas monitoring to include concentrations of hydrogen

sulfide, volatile organic compounds, and carbon monoxide, well temperature, and well pressure. A copy of the correspondence is included in Appendix J of the 2013 Engineering Report (Appendix 20).

On January 10, 2011, NYCDPR signed an Administrative Order on Consent (Consent Order), Case No. R2-20100521-172, related to fill material imported to the Site that violated the Permit. During 2010, fill material was brought on-site and placed in seven different stockpiles. The material was believed to be in conformance with Permit conditions. However, the material was found to be in violation of 2005 Permit Special Conditions 1, 9, and 16, during NYSDEC and IEM inspections. Under the terms of the consent order, the material was allowed to remain on-site under controlled conditions. The material was used to construct the base of the clubhouse and maintenance facility parking lots. Additional details are included in the Order on Consent, which is included in as Appendix I of the 2013 Engineering Report (Appendix 20).

On January 12, 2011, NYSDEC issued a response to NYCDPR's Request for Explanation of NYSDEC Request for Expansion of Ferry Point Park Landfill Gas Monitoring Parameters. Additional parameters included collecting data for hydrogen sulfide, volatile organic compounds and carbon monoxide, well temperature and well pressure. A copy of the correspondence is included in Appendix J of the 2013 Engineering Report (Appendix 20).

On February 16, 2011, NYCDPR submitted test pit analytical data to NYSDEC for review related to demarcation layer installation requirements. A copy of the correspondence is included in Appendix C.3 of the 2013 Engineering Report (Appendix 20).

On March 9, 2011, the NYSDEC issued a response to NYCDPR's February 16, 2011 correspondence requiring demarcation layer to be installed on the Site only in areas where there was less than five feet of shaping and cover layer materials. A copy of the correspondence is included in Appendix C.3 of the 2013 Engineering Report (Appendix 20).

On May 13, 2011, NYCDPR issued a memorandum to the NYSDEC presenting the results of a site-wide water balance based on a cover layer material permeability of 14 inches per hour, which indicated that there would be a reduction in the infiltration rate over the entire Site. A copy of the correspondence, which includes additional details on the topic, is included in Appendix D.1 of the 2013 Engineering Report (Appendix 20).

On May 26, 2011, NYCDPR requested confirmation from the NYSDEC that the use of USEPA Analytical Method 625/8270 was an acceptable alternative method for the analysis of dioxin and furan constituents. The NYSDEC provided verbal confirmation that this was an acceptable method to be used. A copy of the correspondence is included in Appendix C.5 of the 2013 Engineering Report (Appendix 20).

NYCDPR issued a June 2011 report to the NYSDEC regarding sampling and analysis of landfill gas vents at the Community Park. A copy of the report, which includes further details of this sampling and analysis, is included in Appendix E.3 of the 2013 Engineering Report (Appendix 20). On July 1, 2011, the NYSDEC concluded that there were no ambient air impacts due to the landfill gas emissions from the twelve vents

located in the Community Park and that no further monitoring was necessary beyond routine maintenance.

On August 10, 2011, NYCDPR issued a subsequent water balance memorandum indicating that a higher cover layer material permeability of 30 inches per hour would also result in a lower volume of water infiltrating through the surface of the Site after completion of construction. Section 4.2.1 includes the description relating to the site permeability modifications. Additional details related to the water balance are included in Appendix D.2 of the 2013 Engineering Report (Appendix 20).

On September 19, 2011, NYCDPR prepared technical memorandum Field Sampling Procedures for Ferry Point Site related to groundwater characterization. The memorandum is included in Appendix G of the 2013 Engineering Report (Appendix 20).

On October 18, 2011, NYCDPR submitted a technical drainage review memorandum to the NYSDEC for review regarding the final cover material and site wide water balance. A copy of the correspondence is included in Appendix D.5 of the 2013 Engineering Report (Appendix 20).

On October 21, 2011, the NYSDEC provided a response to NYCDPR's October 18, 2001 technical drainage review memorandum including a conditional approval allowing cover layer material to have a percolation rate of up to 30 inches per hour. The condition was that NYCDPR was required to submit for approval an amendment to the Stormwater Pollution Prevention Plan (SWPPP) including plans and computations that reflect the partial lining of stormwater basins. A copy of the correspondence is included in Appendix D.5 of the 2013 Engineering Report (Appendix 20).

On November 16, 2011, NYCDPR provided NYSDEC with a technical memorandum addressing the conditions included in the October 21, 2011 conditional approval for the cover layer material percolation rate. A copy of the correspondence is included in Appendix D.6 of the 2013 Engineering Report (Appendix 20).

On December 2, 2011, the NYSDEC provided an approval for NYCDPR's SWPPP amendment via email. A copy of the correspondence is included in Appendix D.6 of the 2013 Engineering Report (Appendix 20).

On January 26, 2012, the NYSDEC clarified that the average percolation rate from all samples collected within one cover layer material stockpile could be used as the representative percolation rate of that stockpile due to the mixing that occurred during loading, unloading, transport, stockpiling, and spreading of the material. A copy of the correspondence is included in Appendix 19.

On March 28, 2012, NYCDPR submitted to the NYSDEC initial groundwater monitoring data from the installation of 11 new monitoring wells installed and sampled in February 2012. NYCDPR requested additional direction from the NYSDEC concerning procedures for future sampling events.

On May 1, 2012, the NYSDEC acknowledged that settlement plate monitoring at several points has been discontinued due to interference with ongoing construction, and informed NYCDPR that the short-term monitoring locations did not need to be replaced as long as construction at the Site progressed and the long-term plates were installed as construction was completed. A copy of the correspondence is included in Appendix H of the 2013 Engineering Report (Appendix 20).

On May 8, 2012, a conference call was held between NYCDPR and the NYSDEC to discuss the initial groundwater monitoring data submitted on March 28, 2012 and to discuss guidance for future groundwater monitoring. The NYSDEC provided NYCDPR with requirements for future groundwater monitoring in their May 8, 2012 Ferry Point Park Groundwater Characterization/Monitoring Objective. Meeting minutes are included in Appendix G of the 2013 Engineering Report (Appendix 20).

On May 24, 2012, the NYSDEC verified via email that there were no outstanding enforcement actions for the Site. A copy of the correspondence is included in Appendix B of the 2013 Engineering Report (Appendix 20).

In May 2012, the Permittee requested a modification to the Permit presenting studies, modeling, investigations, and design work that were performed to resolve outstanding comments that were received by the Permittee after the April 8, 2009 Notice of Incomplete Application and the November 25, 2009 permit application to the NYSDEC. NYCDPR submitted the initial version of the Supplemental Engineering Report dated May 31, 2012.

On June 8, 2012, the NYSDEC confirmed that the sand material used for the tees, greens, and sand traps (bunkers) should not be counted towards the Permit stated allowable cover soil maximum of 250,000 cubic yards. Based on information provided to the IEM by NYCDPR, NYCDPR's consultants have estimated the required sand material volumes as follows: Tees and Greens (24,705 cubic yards), Driving Range Tee (3,025 cubic yards), and bunkers (6,076 cubic yards). Since these values were estimated and calculated by NYCDPR's consultants, it shall be noted that actual installed volumes may fluctuate from the volumes identified above. Information is from an email from Joe Voss to Faisal Choudhury on June 13, 2012. A copy of the correspondence is included in Appendix 19.

On January 23, 2013, NYCDPR submitted the rationale for increasing the amount of cover layer material that could be imported to the Site under the Permit. A copy of the correspondence is included in Appendix 19.

On February 1, 2013, The NYSDEC issued an amendment to the 2005 Permit (last modified October 17, 2012) authorizing the Permittee to import a total of 2,514,000 cubic yards of in-place fill totaling approximately 2,120,000 cubic yards of shaping layer material and approximately 394,000 cubic yards of cover layer material. A copy of the amendment is included in Appendix 1.

On April 26, 2013, the NYSDEC notified NYCDPR that the compaction factor for cover layer material was revised to 18%, approving NYCDPR's revised April 8, 2013 submittal. A copy of the approval letter and submittal are included in Appendix 19.

On October 15, 2013, NYCDPR submitted the final version of the "2013 Engineering Report", entitled Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East Bronx, NY dated May 31, 2012 (Revised August 31, 2012, October 15, 2013) to address concerns raised by the NYSDEC since the Notice of Incomplete Application of November 25, 2009 to modify the 2005 Permit. The 2013 Engineering Report is attached in Appendix 20.

On April, 17, 2014, the NYSDEC confirmed via email that a minor exceedance of the cover layer in-place volume as included in the Permit is acceptable considering no additional shaping material will need to be imported and that the exceedance could be addressed via as-built drawings and in the final construction certification report. A copy of the email is included in Appendix 19.

On May 21, 2014, the NYSDEC issued the modified Part 360 Solid Waste Management Permit (No. 2-6006-00014/00013 (SW)) and Tidal Wetlands Permit (No. 2-6006-00014/00016 (TW)) (the "2014 Permit"). See Appendix 1 for a copy of the permit.

On October 29, 2014, the NYSDEC issued an amendment to Special Condition 24 of the 2014 Permit stating that during fill delivery and earthwork, NYCDPR should submit quarterly reports to the NYSDEC summarizing all Site activities set forth in the Permit. Each report should provide details of all rejected fill material, quantify the amount of material imported to the Site using truck volumes, and the results of all on-site monitoring for that period. All fill tracking, earthwork activities, landfill gas monitoring, and associated reporting requirements typically contained within each Fill Management Report would be addressed by Quarterly Reports moving forward and Fill Management Reports would no longer be issued. FMRs were no longer being issued due to a significant reduction in fill importation and earthwork activities at the Site. A copy of the letter is included in Appendix 1.

For a detailed history of site operations and activities prior to June 30, 2005, see Volume #1, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY, Engineering Report, prepared by TRC Raymond Keyes Associated dated June 30, 2005 (revised) which is attached in Appendix 20.

1.3.6 Construction Drawings

The project included a substantial number of different construction drawings associated with the Project. Construction drawings are included in Appendix 4.

2 Part 360 Permit

2.1 Part 360 Permits and Modifications

The following is a list of the permits and modifications issued for this Project:

On July 17, 2000, the NYSDEC issued a Part 360 Solid Waste Management Permit (DEC No. 2-6006-00014-00011) (the "2000 Permit").

On October 18, 2002, the NYSDEC issued a Part 360 Solid Waste Management Permit (DEC No. 2-6006-0014-00013) (the "2002 Permit").

On November 18, 2005, the NYSDEC issued a modified Part 360 Solid Waste Management Permit (No. 2-6006-00014/00013), followed by a December 27, 2005 revision (the "2005 Permit").

On May 21, 2014, the NYSDEC issued a modified Part 360 Solid Waste Management Permit (No. 2-6006-00014/00013 (SW)) and a Tidal Wetlands Permit (No. 2-6006-00014/00016 (TW)) (the "2014 Permit").

Note that a separate SPDES General Permit for Stormwater Discharges from Construction Activity (GP-08-001) was obtained for the Project and the Acknowledgement of Notice of Intent is dated May 12, 2009 (Permit Identification No. NYR10R112).

Copies of the aforementioned permits and modifications are included in Appendix 1.

2.2 Reference Documents

Refer to Appendix 2 for a list of Permit reference documents. These documents support the original Permit and/or provide basis for subsequent permits renewals and modifications.

2.3 Non-Conformance Issues

In accordance with Special Condition 24, the IEM reported on Permit related non-conformance issues during the duration of construction at the Site. A complete list of all non-conformance issues observed and corrective actions taken during the Project is included in Appendix 3.

2.4 Operational Upsets, Emergencies, and Unusual Circumstances

2.4.1 Security breaches, Unauthorized Entries, Injuries, Fires, Theft, Vandalism, etc.

The following information was gathered from TRC, NYCDPR's design and construction consultant:

In July/August of 2013, a CBS film crew received authorization from the Agency to scout and film areas within the Ferry Point Golf Course proper. There were no known issues with those activities.

TRC did not have specific detailed reports for thefts or vandalism that occurred on the Site. To the best of their knowledge, there were two incidents of vandalism to contractor equipment (broken glass

windows and spray painted vehicles), and a few incidents when the perimeter fence was damaged (bent/scratched vertical bars). Landfill gas vent caps were damaged, but there was no evidence of vandalism; the vent caps may have been damaged by lawn mowers or other equipment running over them.

There were no known major fires or injuries during the construction time period.

The only unusual event was the discovery of the body of a construction worker who had fallen from the Throggs Neck Bridge and washed up at the Waterfront Park. For several days there was police presence and other related activity. However, that event was not related to the work at the golf course nor did it delay or adversely affect the progress of the project.

As reported by the IEM:

On the evening of August 18, 2011, the Site was broken into by unknown persons. LAWS equipment storage containers were forced open and various tools and copper piping was stolen. The trespassers appeared to have entered the Site at the back entrance to the golf course along Balcom Avenue. The fence was observed cut open in that area.

Upon arrival at the Site on August 26, 2011, IEM staff observed that the IEM trailer had been broken into by unidentified persons. On-site security and LAWS representatives were notified as well as the local police (by LAWS). Two digital cameras were stolen from the IEM trailer.

On June 25, 2012, the IEM witnessed a trailer of imported fill material slide off its frame during dumping activities. No injuries were reported.

On October 31 and November 1, 2012, IEM staff performed on-site inspections to assess damage caused by Hurricane Sandy. IEM staff observed many areas around the Site where restoration work needs to be performed on the vent trench, silt fence repair, site security fence repair, and garbage/debris removal. The southern site boundary was observed to have significant damage and washout. The entire south end of the Site was open without protection and it was filled with debris from the storm.

On October 25, 2012, the IEM witnessed both a truck and a trailer roll over onto their side during dumping activities. No injuries were reported.

Various Permit non-conformance issues were observed related to unsatisfactory security at the Site beginning with non-conformance issue 12 on October 1, 2003 where security fence and other controls were not properly maintained on-site allowing for unauthorized entry to the Site. Site security, control, and unauthorized access were the subject of non-conformance issues 15, 72, 90, 93, 97, 98, 122, and 127. Ultimately, all of these non-conformance issues were resolved and closed out during construction on an ongoing/as-needed basis.

There was a presence of coyotes at the Site as tracked and studied as part of the Gotham Coyote Project. The work was conducted under NYCDPR permits and information was released to NYCDPR for informational purposes. Coyotes were initially monitored by game camera in Ferry Point Park beginning in January 2012 through 2013. Coyote monitoring did not occur at the Site in 2014.

2.5 Reporting

The IEM was responsible for reporting to the NYSDEC related to Permit activities and compliance for the Project in accordance with Special Condition 24 of the 2014 Permit. The IEM prepared and submitted to the NYSDEC Daily Observation Reports ("DOR"), bi-weekly Fill Management Reports ("FMR"), and Quarterly Reports ("QR"). These reports are attached as appendices to this report and available at the NYCDPR Bronx Borough Headquarters (Ranaqua) document repository and are part of the public record. The address of the repository is 1 Bronx River Parkway, Bronx, NY 10462, telephone: (718) 430-1800.

2.5.1 Daily Observation Reports (DOR)

The IEM reported to the NYSDEC on a daily basis on the following information: weather conditions, municipal solid waste material removal from the site, fill materials imported to the site, detailed notes of construction activities, and non-conformance issues related to the Permit conditions.

DORs are attached in Appendix 5 beginning on October 25, 2010. Daily site activity observations for the time period prior to October 25, 2010 are summarized in the IEM's Fill Management Reports.

2.5.2 Fill Management Reports (FMR)

The IEM prepared Fill Management Reports (FMRs) that were submitted to the NYSDEC on a bi-weekly basis. Generally, the FMRs contained the following information and data: a project summary including an overview of site activities, Permit non-conformance issues, fill source site review activities and associated data, site testing activities, filling and shaping activities, and environmental monitoring. FMRs contained figures identifying imported material dump locations and any active filling, grading, and shaping areas associated with the landfill cap.

FMRs were discontinued on October 31, 2014 with FMR 346. FMRs were discontinued because the importation of shaping layer and cover layer materials and earthwork activities were significantly reduced in scope and scale on the Site. In a Permit amendment issued to NYCDPR on October 29, 2014, the NYSDEC stated that all fill tracking, earthwork activities, landfill gas monitoring, and associated reporting requirements would be addressed by Quarterly Reports thereafter.

FMRs 1 through 346 are attached in Appendix 6.

2.5.3 Quarterly Reports

The IEM prepared Quarterly Reports (QRs) that were submitted to the NYSDEC on a quarterly basis. Generally, the QRs contained summarized and aggregated information included in FMRs over each quarterly reporting period.

QRs beginning with the 4th Quarter of 2002 through the 1st Quarter of 2015 (with the exception of the 1st Quarter of 2011) are attached in Appendix 7. Observations for site activities for the 1st Quarter of 2011 are included in FMRs 247 through 253.

2.6 Authorized Fill Volumes

On July 17, 2000, the NYSDEC issued 2000 Permit jointly to NYCDPR and FPP to allow for a total of 1,000,000 cubic yards of fill to be imported and placed on the Site including approximately 750,000 cubic yards of in-place shaping layer material and 250,000 cubic yards of in-place cover layer material.

On October 18, 2002, the NYSDEC issued the 2002 Permit to allow a total of 1,522,300 cubic yards of fill (in-place) to be imported and placed on the Site. The fill material was to consist of approximately 1,272,300 cubic yards of select exempt construction and demolition debris for the shaping layer, and approximately 250,000 cubic yards of uncontaminated soil for the cover layer. The 2002 Permit also stated that, "approximately 415,000 cubic yards of fill was deposited on the Site prior to the effective date of the Permit and the projection for in-place fill material to complete the project was 1,107,300 cubic yards, consisting of approximately 857,300 cubic yards (in-place volume) of select exempt construction debris for the shaping layer and approximately 250,000 cubic yards (in-place volume) of uncontaminated soil for the cover layer.

In 2003, the golf course architect determined that the tournament quality and signature status of the course could be significantly improved by making the facility a "links" style golf course. The changes to the Project as compared to the work authorized under the 2002 Permit included:

- Increasing the support mounding between golf holes and grading the course in a links style.
- Re-routing of holes 11, 12 and 13 to reverse their direction in order to improve player circulation and playing time.
- Moving Hole 9 to the west of the golf driving range in order to improve the safety zone of the driving range and remove the need for high netting.
- Realigning the centerlines of holes: 10, 16, 17, and 18 to improve the strategic layout and visual experience of the golf course.
- Lowering the elevations of tees 4 and 6. This eliminated the retaining wall proposed at the northeast corner of the Site.
- Adding a golf training area at the north end of the driving range. This required shifting the centerline of Hole 8 slightly north and increasing the support mounding around this area to buffer the adjacent holes.
- Increasing the mounding adjacent to the TBTA toll plaza in order to block noise and adjacent traffic from view.
- Shifting the Site roadway along the east side of the bridge to accommodate a TBTA easement that extends 25 feet east of the bridge. This required changes to the parking lot at the clubhouse and the location of detention/water quality basin and Waterfront Park.
- Eliminating the Boathouse Grill restaurant in the Waterfront Park. A restaurant would be located within the banquet facility. Parking spaces for the banquet facility were increased to

accommodate the restaurant. A restaurant may be constructed within the Waterfront Park in a future phase, based on economic demands.

- Modifying the parking lot for the Waterfront Park. The 120 parking spaces for the Waterfront Park will be located near the Whitestone Bridge approach structure.

These proposed changes to the Project increased the total needed in-place fill volume for the project to 2,370,000 cubic yards to shape the golf course in a links style.

The quantification of the imported fill material was continuously tracked by both truck volume and periodic topographic surveys of in-place volumes. Initially it was assumed that truck volume would be reduced by 25% when compacted into place, but a new correction factor was to be calculated. On November 1, 2004, the NYSDEC approved a revised truck correction factor of 42.4%, which was based upon an October 10, 2003 30% aerial topographic survey, and on December 7, 2004, the NYSDEC approved a revised truck correction factor of 41%, which was based upon a July 17, 2004 60% aerial topographic survey. These recalculations were performed by dividing the actual in-place volume by the total cubic yards of truck volume delivered to the Site as of the date of the survey, as required by the 2002 Permit.

TRC prepared the 2005 Engineering Report, which comprised of Volume #1, Volume #2, and a 26 sheet drawing set entitled, "Ferry Point Park Public Recreational Facility Bulk Earthwork, Bronx, New York, Supplement No. 2". The 2005 Engineering Report is included in Appendix 20 and represented the following scope of work:

- An 18 hole golf course with practice area;
- Maintenance Area in the northwest corner of the Site;
- Clubhouse parking lot in the southwest portion of the Site;
- Banquet Facility in the southwest portion of the Site (along Emerson Avenue);
- Community Park;
- Waterfront Park with parking lot; and
- Drawing G-3 and G-4 of "Ferry Point Park Public Recreational Facility Bulk Earthwork, Bronx, New York, Supplement No. 2", showed the deviations in grading between the plans approved on October 18, 2002 with the proposed plan.

On November 18, 2005, the NYSDEC issued the 2005 Permit authorizing the importation of a total of 2,370,000 cubic yards of in-place fill material to the Site. The fill material was to consist of approximately 2,120,000 cubic yards of select exempt construction and demolition debris for the shaping layer, and approximately 250,000 cubic yards of uncontaminated soil for the cover layer. The correction factor was 41% at that time and could be further modified.

On January 22, 2009, in accordance with Special Condition 10 of the 2005 Permit, TRC submitted a revised truck reduction factor of 40.3%. On September 18, 2009 TRC submitted a truck reduction factor of 43.3% based on a May 10 2009 aerial topographic survey. On February 11, 2010, the NYSDEC approved a truck reduction factor of 41.7% as submitted by the IEM on December 11, 2009 (included in Appendix 19).

The Golf Course layout that NYCDPR moved forward with was modified from what was shown in the 2005 Engineering Report as revised by the 2013 Engineering Report. One major change was the complete removal of the Banquet Facility in the southeast part of the Site. There were also changes in the placement, alignment, and grading of some holes on the Golf Course.

On February 1, 2013, the NYSDEC granted a permit modification to increase the limit of cover material from 250,000 to 394,000 cubic yards with the stipulation that NYCDPR revisit the correction factor for cover layer material. It was determined that the correction factor for the granular cover material (sand) was 18%. This revised the truck volume to 480,488 cubic yards. The correction factor for cover layer material was approved per an April 26, 2013 letter from NYSDEC to NYCDPR as included in Appendix 19.

On May 21, 2014, the NYSDEC issued the 2014 Permit to NYCDPR to allow the import of a total of 2,514,000 cubic yards of in-place fill material including 2,120,000 cubic yards of in-place shaping layer material and 394,000 cubic yards of in-place cover layer material.

3 Fill Importation QA/QC Program

Fill material importation commenced on August 2, 2000 and the last day for fill import was May 5, 2015. The fill importation QA/QC program implemented for the Project based on the Permit and associated reference documents was adhered to. The fill importation consisted of two main components including source site reviews and on-site inspections. A source site review was conducted by the IEM prior to any fill material being imported to the Site and additional visual and photo-ionization detector (PID) inspections were completed by the IEM upon the material entering the Site at the IEM inspection platform and again once the material was dumped at the work or stockpile location on the Site.

3.1 Source Site Reviews

Prior to any shaping layer or cover layer material being imported to the Site, each potential source was thoroughly evaluated by the IEM. An environmental review was performed for all proposed source sites in accordance with Special Condition 24 of the 2014 Permit. The source site review process criteria was specified in the Report on Fill Management, Operations and Maintenance, prepared by TRC on May 16, 2000, and revised June 30, 2005 (Volume #2 of the 2005 Engineering Report). The source site review process was modified over time as compared to the original process outlined in the various engineering reports and permit modification requests. The process generally consisted of the following main components:

1. NYCDPR would notify the IEM of a new potential source site. NYCDPR would provide the IEM with the site name and location as well as any available historical site information and soil environmental analytical results that existed for the potential source site.

2. Once NYCDPR confirmed that they wanted to move forward with pursuing the potential source site, NYCDPR authorized the IEM to retrieve any available site information from Environmental Data Resources, Inc. (EDR) which included environmental and historical land use records for the source site property under evaluation including Sanborn maps, city directories, topographic maps, and aerial photographs. NYCDPR then completed an initial review of the existing site information,

generated a sampling plan, and provided the results of the initial review and sampling plan to the IEM. NYCDPR then authorized the IEM to conduct a desktop review of the existing site information (i.e. EDR), any available soil environmental analytical results, and NYCDPR's sampling plan. The IEM provided NYCDPR with comments related to their review and their sampling plan in consultation with the NYSDEC. Once a final sampling plan was agreed upon, the source site investigation was initiated and executed per the NYCDPR sampling plan with IEM oversight. For source sites with in situ material, test pits were typically completed with additional soil samples inspected, collected, and analyzed in accordance with the Permit requirements. Once all the sampling was completed, the IEM reviewed sample results and the IEM generated a memorandum summarizing the review process and provided recommendations and requirements necessary for NYCDPR to address in order to continue pursuing the potential source site. The recommendations typically included conditions associated with overseeing the excavation, loading, and import of the source site material to the Site in accordance with the Permit. The IEM submitted the memo of recommendations to the NYSDEC for review and comment prior to issuing the final memorandum to NYCDPR. The NYSDEC would provide final comments and approval of the source site with any additional required conditions.

3. If NYCDPR determined that the potential source site was worth pursuing considering site-specific conditions, schedules, etc., they coordinated with the source site operator and IEM on importation schedule and requirements. The IEM provided oversight to confirm that the loading, hauling, and overall import of the approved material was completed in accordance with the memorandum of recommendations, NYSDEC conditions, and the Permit.

4. The IEM provided oversight during export from the approved source sites on an as needed basis and provided oversight at each source site during additional sampling activities if the source site was exporting more than the minimum sampling frequency outlined in the Permit (i.e. 10,000 cubic yards for shaping layer material and 2,000 cubic yards for cover layer material).

If at any time during the review process there were reasons for concern identified by the IEM resulting in the potential source site being classified as a "complex" source site, the NYSDEC became the primary reviewer and made final recommendations related to additional site investigation requirements or approval/rejection of the potential source site with support from the IEM. A complex source site was defined by the presence of an abundance of or particular Recognized Environmental Concerns ("RECs") and the NYSDEC made any decisions related to approval and/or associated conditions for further evaluation or import of the fill material.

A flow chart detailing the source site review process is included as Appendix 21.

Details of source site review and site testing activities are included in the report text and tables of each bi-weekly Fill Management Report issued by the IEM. Source site review supporting information and testing data is included in Appendix 8.

The following is a listing of source site reviews completed by the IEM since October 25, 2010. Since October 25, 2010, Woodard & Curran's first day as the IEM, 42 potential source sites were formally identified as potential fill source options by NYCDPR. Of the 42 potential source sites identified since October 25, 2010, 39 were advanced to at least a preliminary review stage. Potential source sites did not advance to a full source site review for various reasons such as changes in schedule, insufficient material, financial infeasibility, red flags identified with past uses of the source site, etc. Details of each source site review and site testing activities completed by the IEM, prior to any importation to the Site, are included in Sections 3.1.1 and 3.1.2 below.

A total of 15 of the potential source sites evaluated after October 25, 2010 and through project completion resulted in material being imported to the Site during that same time period. It is noted that all of the source site reviews included in Sections 3.1.1 and 3.1.2, are associated with the Golf Course and all cover layer material exposed at the surface within the golf course was imported from the cover layer material source sites included in Section 3.1.2 below. Refer to FMRs 1 through 241 for details related to source site reviews and site testing prior to October 25, 2010, which are included in Appendix 6.

For a list of source sites that imported material to the Site between November 18, 2005 and October 25, 2010, see the table included in Appendix 12. Refer to FMRs in Appendix 6 for source sites and estimated fill material imported to the Site prior to November 18, 2005.

The following were potential source sites that were identified by NYCDPR since October 25, 2010 where a review was not initiated:

1. 10 Byron Place (Larchmont, NY)
2. College Point
3. PS-331 (Tremont Avenue, Bronx, NY)

The following were potential shaping layer source sites that were identified by NYCDPR since October 25, 2010 with some level of source site review being completed. Source sites that resulted in a complete review and the importation of shaping layer material to the Site after October 25, 2010 are identified with bold text.

1. **PS-310 (942 62nd Street, Brooklyn, NY)**
2. PSAC
3. Barclays Arena (620 Atlantic Avenue, Brooklyn, NY)
4. JFK Jet Blue/Delta Runway (Jamaica, NY)
5. Columbia University
6. Long Island Jewish Center (270-05 76th Avenue, New Hyde Park, NY)
7. Highbridge Terrace (220 West 167th Street/Sedgewick Avenue, Bronx, NY)
8. Astoria (27-07 23rd Avenue, Queens, NY)
9. **Eastside Access (Queens Street and Jackson Avenue, Queens, NY)**

10. **Kew Gardens (Van Wyck Expressway between Grand Central Avenue and 86th Avenue, Queens, NY)**
11. PS-285 (1065 Martin Luther King Boulevard, Bronx, NY)
12. Flushing Hotel (133-63 Roosevelt Avenue/39-20 Prince Street, Queens, NY)
13. **2nd Avenue (2nd Avenue and 94th Street, New York, NY)**
14. 2nd Avenue (2nd Avenue and 72nd Street, New York, NY)
15. Alexander Hamilton Bridge (Bronx, NY)
16. **Throgg's Neck/Target/USPS (815 Hutchinson River Parkway, Bronx, NY)**
17. **PS-287 (110-10 Northern Boulevard, Queens, NY)**
18. City Point Brooklyn (1 Dekalb Avenue, Brooklyn, NY)
19. 400 Park Avenue South (New York, NY)
20. **Union Street (43-31 Union Street, Flushing, NY)**
21. **Mount Vernon Recycling Corp. (113 Edison Avenue, Mount Vernon, NY)**
22. 228th Street (Rosedale, NY)
23. Evergreen Recycling/Tully Environmental (Willets Point Boulevard, Corona, NY)
24. Waterpointe-Whitestone
25. Don Carlo Environmental/Brooklyn (1247 38th Street, Brooklyn, NY)
26. Castle Hill Recycling (1000 Zerega Avenue, Bronx, NY)
27. Springfield Gardens
28. Calvert Vaux (Brooklyn, NY)
29. 160 Myrtle Avenue (Brooklyn, NY)
30. 215 E. 68th Street (New York, NY)
31. **DEP Valhalla (10 Walker Road, Valhalla, NY)**
32. **Tilcon (Bronx) (980 East 149th Street, Bronx, NY)**
33. **NY Recycling (475 Exterior Street, Bronx, NY)**
34. Little Bay (Queens, NY)

The following were potential cover layer source sites that were identified by NYCDPR after October 25, 2010 with some level of source site review being completed. Source sites that resulted in complete reviews and the importation of cover layer material to the Site after October 25, 2010 are identified with bold text.

1. **Bloomingburg (C.M. & Sons Trucking Site, 680 Bloomingburg Road, Bloomingburg, NY)**
2. **Ranco Sand (115 South Street, Manorville, NY)**
3. **East Coast Mines (Lewis Road near Route 104, East Quogue, NY)**
4. Amboy Aggregates (415 Main Street, South Amboy, NJ)
5. **Long Island Compost/Great Gardens (445 Horseblock Road, Yaphank, NY)**

3.1.1 Shaping Layer Material

Materials accepted for use as shaping layer on the Site were sampled prior to acceptance and after the import of each additional 10,000 cubic yards as required by Special Condition 14 of the 2014 Permit. For recycling facilities, sampling was conducted after each additional 5,000 cubic yards. As per the November

18, 2005, Permit Modification, each soil sample was analyzed for TCLP VOCs and metals as well as total VOCs, SVOCs, priority pollutant metals, pesticides, PCBs, sulfur, and asbestos.

Fill material imported to the Site and used for the shaping layer was analyzed for the following parameters, per Special Condition 14 of the 2014 Permit. A description of which can be found below as included in Section 4.2.1.1 of the 2013 Engineering Report.

Based on source site reviews and site testing activities, the shaping layer material imported to the Site met the following chemical limits:

Total carcinogenic SVOC levels less than 10 ppm from individual fill material sources, provided that a weighted average of equal or less than 3 ppm for the entire Project. The following are the list of carcinogenic SVOCs that are subject to this 10 ppm limit: Benzo(a)pyrene, Dibenzo(a,h) anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Indeno(1,2,3-cd)pyrene, Benzo(k)fluoranthene, and Chrysene.

Total SVOCs less than 500 ppm.

Metals:

- Arsenic less than 28 ppm;
- Barium less than 2,000 ppm;
- Cadmium less than 20 ppm;
- Chromium less than 1,000 ppm;
- Copper less than 1,000 ppm;
- Lead less than 400 ppm;
- Mercury less than 0.57 ppm;
- Selenium less than 11 ppm;
- Silver less than 100 ppm

Asbestos for all layers 0.5% or less
Total sulfur for all layers 0.5% or less
Total PCBs less than 10 ppm
Total Pesticides less than 10 ppm
VOCs (all individual analytes less than TAGM 4046)

In a letter dated October 25, 2006 (included in Appendix C.1 of the 2013 Engineering Report), the NYSDEC provided a clarification adding that a carcinogenic SVOC limit of 10 ppm or lower is allowable from individual fill material sources, provided that a weighted average of equal or less than 3 ppm is achieved by the end of the Permit.

NYCDPR followed the NYSDEC's directives since receipt of each one associated with the importation of shaping layer material to the Site.

Details of the source site reviews and site testing for each potential shaping layer material source site are as follows:

3.1.1.1 PS-310 (942 62nd Street, Brooklyn, NY)

Source site testing analytical results for the PS-310 site were provided to the IEM by NYCDPR in a submittal dated October 6, 2010, and reviewed by the IEM for potential shaping layer material, based on the site visit performed by Gannett Fleming (the previous IEM) on September 21, 2010, and as recommended in their memo dated September 28, 2010. Samples were collected and tested by Analytical Chemists and issued via lab reports dated October 1, 2010. Analytical results were collected from five test pits from both the fill and natural formation soil layers. An exceedance of lead relative to the Site Permit shaping layer material chemical limits was noted in the fill layer within test pit #3. This information was factored into the final memo of recommendations issued by the IEM dated October 26, 2010 regarding the approved locations and depths of shaping layer material from the source site.

The IEM was on-site on November 10, 2010 to visually inspect and confirm that all fill and petroleum impacted fill from Areas of Concern 1 and 2 were removed. The IEM was also on-site on November 12, 2010 to observe the sampling of three additional sample locations of natural formation soil. The IEM submitted a detailed email to the NYSDEC and NYCDPR summarizing the November 12, 2010 site visit. Shaping material analytical results were reviewed for the PS-310 source site for three samples collected on November 12, 2010. All parameters met Permit criteria for import to the Site.

Approximately 5,308.48 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.2 PSAC

Initial site and fill material information was provided to the IEM between October 25 and November 5, 2010 by Gannett Fleming (the previous IEM). No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.3 Barclays Arena (620 Atlantic Avenue, Brooklyn, NY)

Initial site and material information was provided to the IEM by Gannett Fleming (the previous IEM) between October 18 and November 5, 2010. An initial site visit was completed by the IEM to initially inspect site conditions and materials at the source site. The IEM issued a memo of recommendations for the source site on November 16, 2010 based on materials available at that time. Materials were not reviewed further or imported to the Site at that time.

New material became available at this source site and additional data was provided for IEM review between December 18 and December 31, 2010. The review of this additional data and associated information was initiated. The sampling plan from mid-November 2010 was resubmitted to NYCDPR for the new materials being evaluated at Barclays Arena between January 1 and January 14, 2011 as the

original plan still applied to the additional/revised materials being made available. NYCDPR subsequently notified the IEM that the site source manager did not consider the Site as a viable option at that time.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.4 JFK Jet Blue/Delta Runway (Jamaica, NY)

On December 3, 2010, NYCDPR forwarded the IEM initial lab data for this potential source site associated with a Jet Blue/Delta runway at JFK Airport. On December 6, 2010, the IEM visited the potential source site to inspect the material totaling an estimated 7,000 cubic yards. The IEM witnessed evidence of asphalt and slag in the fill material and notified NYCDPR and the NYSDEC that the material was not a viable option for import to the Site. (See section 3.2.3)

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.5 Columbia University

Initial site and material information was provided to the IEM by Gannett Fleming (the previous IEM) between October 25 and November 5, 2010.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.6 Long Island Jewish Center (270-05 76th Avenue, New Hyde Park, NY)

The IEM conducted an initial site visit on November 5, 2010. An email containing the summary of site visit activities and summary of recommendations was provided. The IEM issued a formal memo of recommendations on November 11, 2010.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.7 Highbridge Terrace (220 West 167th Street/Sedgewick Avenue, Bronx, NY)

On January 10, 2011, a formal fill source site review was initiated for the Highbridge Terrace source site. Sanborn Maps, historical topography maps, historical aerial photos, and the EDR and NYSDEC Spill Databases were reviewed. Approximately 5,900 cubic yards of potential fill material was reportedly available. Initial analytical data was provided however, the IEM was informed by NYCDPR that this potential source site was no longer a viable option at the time and further review did not occur.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.8 Astoria (27-07 23rd Avenue, Queens, NY)

A formal fill source site review was conducted for the Astoria source site February 3, 2011 and consisted of the review of historical information and existing source site sampling data and EDR information. The existing sample data was reviewed and some sample results did not meet the Site Permit limits for shaping material. Preliminarily, the site contractor estimated approximately 2,000 cubic yards of potentially approvable material. The initial review was completed and NYCDPR reported that this source site was no longer a viable option and no further action was expected.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.9 Eastside Access (Queens Street and Jackson Avenue, Queens, NY)

A coordination call was held with the IEM, NYCDPR, and the source site contractor on February 8, 2011. The IEM witnessed initial source site sampling as requested by NYCDPR at the Eastside Access source site on February 9, 2011. A total of seven grab sample collections were observed and one discrete VOC sample collection was observed. The existing stockpile was estimated to measure approximately 2,000-4,000 cubic yards based on an approximation of stockpile dimensions by the IEM.

The IEM received a submittal of information from NYCDPR between February 12 and February 25, 2011. The IEM reviewed the material and found the site to be noncompliant with the Site Permit as material could not be segregated and stockpiled at the source site. Per NYSDEC directive, NYCDPR would be coordinating directly with the NYSDEC for further site review. The site was reviewed by the NYSDEC and a site-specific analytical parameter list (for Metals) was approved by the NYSDEC between March 12 and March 25, 2011.

Between March 26 and April 8, 2011, the IEM was notified by the NYSDEC and NYCDPR that this source site had been approved to export fill materials to the Site by the NYSDEC. The IEM discussed the conditions of the approval with the NYSDEC and began witnessing sample collection of the East Side Access crushed stone material and review of lab reports.

The IEM conducted monitoring of shaping layer material sampling and loading at the East Side Access source site for materials exported to the Site. Sampling at this source site generally occurred the day before materials were expected to ship to the Site. Samples were being analyzed for metals, laboratory results were compared to the Site Permit requirements, and no exceedances of shaping material limits were identified.

Between April 2011 and December 2011, the IEM continued monitoring for this source site. The IEM witnessed sample collection of East Side Access crushed stone material every 10,000 cubic yards, reviewed lab reports, and periodically monitored loading of trucks with shaping layer materials for export to the Site as materials were shipped to the Site.

The IEM reviewed the lab results related to the IEM witnessed source site sampling conducted on December 12, 2011 for proposed shaping material at the East Side Access source site and found the sampled material to be unacceptable for import to the Site based on the fact that the detected value for Arsenic was 48.7 ppm. The permit allowable maximum concentration for Arsenic is 28 ppm. The sampled material was determined to be unacceptable for import to the Site as shaping layer material per the Permit.

NYCDPR requested that the material sampled on December 12, 2011 be removed from consideration for import to the Site and requested that a sample be collected for the next available material at the East Side Access source site. The IEM reviewed the lab results dated December 14, 2011 related to the IEM witnessed sampling conducted on December 13, 2011 for the proposed shaping material and found them to be acceptable based on the fact that the RCRA metals results fell below the Permit shaping layer material allowable maximum concentrations and the Permit USEPA referenced testing method was used. It was determined that approved shaping material to be imported to the Site could only originate from the stockpiles witnessed during the December 13, 2011 sampling event. Material previously sampled on December 12, 2011 was not imported to the Site.

NYCDPR and their associated representatives hypothesized that the unacceptable sample results for arsenic may be a result of a change in the rock removal process, which included drilling, blasting, and crushing to generate the shaping layer material. On December 16, 2011, the NYSDEC stated that if the mining technique did not change (i.e. drilling as opposed to blasting) the sampling frequency could remain unchanged on the basis of the number of successful past results. However, in the event of another failure, the sampling frequency would become one sample per 2,000 cubic yards. The IEM proceeded with observing one sample per 2,000 cubic yards based on a change in mining operations as per discussions with the source site operator.

On February 7, 2012, the NYSDEC stated that based on the number of successful test results for the East Side Access material since the December 12, 2011 failure due to high arsenic content, the NYSDEC approved NYCDPR's request for future testing of East Side Access material at a reduced frequency of one sample per 10,000 cubic yards.

On December 18, 2012, Analytical Chemists collected samples from stockpiled East Side Access Source Site shaping material at the Site that had elevated PID readings when scanned during the on-site inspection process upon import and after dumping. The six segregated loads of East Side Access shaping layer material passed the Site Permit criteria for shaping layer material based on sampling conducted at the Site. Sampling consisted of collected samples witnessed by the IEM on December 18, 2012. Therefore, the material remained on-site and was used as shaping layer material.

Approximately 191,293.87 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.10 Kew Gardens (Van Wyck Expressway between Grand Central Avenue and 86th Avenue, Queens, NY)

Initial site and material information was provided to Woodard & Curran by Gannett Fleming (the previous IEM) between October 25 and November 5, 2010.

A formal fill source site review was initiated for the Kew Gardens between November 6 and November 19, 2010 consisting of compiling and reviewing historical maps, photos, EDRs, and spills database and available information from the source site contractor.

A formal fill source site review was continued for the Kew Gardens source site between November 20 and December 3, 2010 and consisted of the review of Sanborn maps, topographic maps, aerial photographs, NYSDEC spills and remediation database, and the City Directory. A Phase II Environmental Site Assessment (ESA) and associated analytical data was reviewed and sample results did not exceed the Permit limits for shaping layer material. Preliminarily, the source site contractor estimated approximately 10,000 to 15,000 cubic yards of potentially approvable material was available.

On February 11, 2011, the IEM issued a memo of recommendations and sampling plan for the Kew Gardens source site.

The IEM conducted fill material source site sampling oversight at the Kew Gardens site on February 17, 2011. Six areas (1, 2, 3, 4, 5, and 9) were assessed by IEM desktop review and a sampling plan was submitted to, and approved by the NYSDEC for potential cover material evaluation. Representatives from the laboratory, NYCDPR, IEM, and the source site operator met prior to the initiation of sampling activities. The source site operator stated that the full extents of Areas 4, 5, and 9 would not be accessible for visual screening and analytical sample collection and soils in Area 9 were being actively loaded for off-site use. NYCDPR requested that source material evaluation proceed for accessible material. Composite grab and discrete VOC soil samples were collected for laboratory composite and analysis from Areas 1, 2, 5, and 9. Area 4 was not accessible for evaluation. Asphalt and other materials non-compliant with the Site Permit were observed on various soil horizons in Area 3, and as such, no samples were collected as the material was no longer considered for import to the Site.

On February 25, 2011, NYCDPR submitted draft analytical data from the Kew Gardens site for IEM review. At the request of NYCDPR, the IEM performed an initial review of the draft analytical data for cover material, understanding that no final determination can be made until the complete and final data package has been submitted, reviewed by the IEM, and approved by the NYSDEC. The initial IEM review identified cadmium in composite samples from Areas 1, 2, 5, and 9 at concentrations that exceed the Site Permit requirements for cover material. NYCDPR was informed and subsequently requested the material be evaluated for shaping layer material. No exceedances of the Site Permit requirements were identified in the draft data submittal. Additional draft data from the Kew Gardens source site was submitted on March 8, 2011. No exceedances of the Site Permit requirements were identified in that draft data submittal.

Final laboratory data was submitted to the IEM for review on March 18, 2011. Laboratory results were compared to the Site Permit requirements and no exceedances of shaping layer material limits were identified. Metals concentrations in the samples did exceed cover layer material limits. Fill material from

the Kew Gardens source site was approved by the NYSDEC for importation to the Site for use as shaping layer material on March 24, 2011.

Per NYCDPR request, the IEM submitted the Kew Gardens EDR files to NYCDPR on July 1, 2011.

Beginning on August 5, 2011, NYCDPR indicated to the IEM that they had renewed interest in considering shaping layer material from Area 17 at the Kew Gardens source site. The IEM provided a list of concerns and items to address in the sampling plan associated with the attempt to obtain approval for this shaping layer material. On August 11, 2011, NYCDPR indicated that the Kew Gardens review was on hold.

On September 19, 2011, IEM representatives were on-site at Area 17 of the Kew Gardens Source Site to perform a visual, physical, and PID inspection of the existing soil via a total of seven test pits excavated from ground surface to approximately 12 feet to 16 feet below the existing ground surface. The first four test pits were excavated to approximately terminal depth. The last three test pits were terminated prior to reaching terminal depth due to instability of the sidewalls as a result of the presence of dry sand material. The test pits were completed consecutively moving from south to north. The area consisted of approximately 10,000 cubic yards of proposed shaping layer material as identified by NYCDPR and the source site contractor. In addition, the IEM witnessed the collection of grab samples for chemical analysis by NYCDPR's laboratory and logged the test pit locations using handheld GPS equipment.

IEM staff observed an initial layer of organics, which contained a slight odor attributable to decomposition and yielded PID results of 0.1 to 0.5 ppm. This material was not approved for use at the Site and this was communicated directly to NYCDPR and the site contractor. The IEM indicated that any potential approval of shaping layer material from Area 17 would require the full removal of the organic layer prior to any loading and shipping of potentially approval soils to the Site, which would need to be confirmed by the IEM.

The soil below the initial organic layer (beginning approximately 0.5’-1.5’ below grade) consisted of brown, silt with some sand and a trace of clay. Cobbles and boulders were also evident throughout the soil profile. No soil staining or odors were observed, and the material encountered below the organic layer was generally consistent in composition. The soil shifted to more of a sand and cobble composition as the test pits progressed towards the north. No asphalt or any other debris was observed in the soil, and the PID scans did not yield any detections.

IEM staff observed the collection of a grab samples at approximately two-foot intervals in each of the seven test pits completed at the Kew Gardens Source Site on September 19, 2011. It was estimated by NYCDPR and the site contractor that approximately 10,000 cubic yards were available from Area 17 of the source site. In addition to the required discrete sampling of VOCs/TCLP VOCs, the lab was instructed by NYCDPR to run three composite samples for the remaining analyses. The composite samples consisted of the grabs from each depth interval. The first two test pits completed represented composite sample #1, the second two test pits represented composite sample #2, and the last three test pits represented composite sample #3.

The IEM completed a preliminary review of shaping layer material originally sampled on September 19, 2011 proposed for import to the Site from Area 17. The IEM required a revised lab report from Analytical Chemists which contained the TCLP VOA and Metals results as well as the dioxin/furan scan using SW 8270. All other lab data was complete and did not exceed any of the Site Permit criteria. Prior to final

approval to import this material to the Site, NYCDPR was required to obtain the NYSDEC's approval to use the alternative dioxin/furan analysis.

NYCDPR received NYSDEC approval to use Method 8270 for analysis of dioxins/furans at this source site on January 3, 2012. The IEM completed a final review of shaping layer material (originally sampled on September 19, 2011) proposed for import to the Site from Area 17 on January 4, 2012. The review of available lab data identified that sampled material does not exceed any of the Site Permit criteria. On January 5, 2012, the IEM inspected the source site and visually confirmed the removal of the top 0.5 feet to 1.5 feet of soil which consisted of an initial layer of organics that were previously considered unacceptable for import to the Site. It was determined that the available shaping layer materials from Area 17 totaling approximately 500 cubic yards of the original estimated 10,000 cubic yards were approved for export to the Site.

The source site operator provided the IEM with a proposed excavation plan on December 5, 2012 for additional materials available at the source site. On December 8, 2012, the IEM notified NYCDPR that the previous desktop review (i.e. EDR, etc.) performed for this source site was still applicable for the latest area proposed for excavation. The IEM was on-site at the Kew Gardens source site on December 14, 2012 to witness test pits and environmental sampling for additional shaping layer materials being considered for import to the Site.

On January 3, 2013, the IEM provided a memo of recommendations to the NYSDEC regarding an additional estimated 7,500 cubic yards of shaping layer material being considered for import to the Site that was sampled on December 14, 2012. On January 4, 2013, the NYSDEC approved the importation of this material to the Site subject to the following conditions. The outer limits and depths of all areas of excavation should be clearly delineated in the field and confirmed by the IEM in the field prior to any excavation, loading, or trucking of approved soils. The approval only applied to the material samples and inspected on December 14, 2012, consisting of what appeared to be native material, free of debris and any traces of organics. The limits beyond test pit #8 consisted of observed unauthorized C&D material mixed into the soil (i.e. metal and glass, etc.), and were not approved for import to the Site. The IEM periodically inspected the excavation and hauling activities at the Kew Gardens Phase II site to perform visual and physical screening of the proposed shaping layer material. Inspection frequency was at the discretion of the IEM and the NYSDEC. The exportation of all material to the Site was conducted in accordance with the current Permit requirements (i.e. trucking manifests, etc.).

On June 5, 2013, the IEM issued a third memo of recommendations dated June 5, 2013 for the Kew Gardens source site. The IEM notified NYCDPR that the latest round of shaping layer material (approximately 5,000 CY) was acceptable for import to the Site due to the fact that the material met the Site Permit requirements. The approval applied to the material sampled and inspected on May 22, 2013, consisting of what appeared to be native material, free of debris and any traces of organics, and as delineated horizontally and vertically on the provided test pit plan. The top portion of unauthorized soil (i.e. RCA, geotextile, organic) was stripped and removed off-site to the depths and locations listed on the provided test pit plan, and this condition was witnessed by the IEM prior to importation to the Site. The importation of all material to the Site was conducted in accordance with the Permit requirements (i.e. trucking manifests, etc.).

Approximately 11,988.51 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.11 PS-285 (1065 Martin Luther King Boulevard, Bronx, NY)

On March 10 and 11, 2011 the IEM was provided with fill source site documentation for the PS-285 source site. The IEM initiated review of the source site materials provided per request of NYCDPR. Site visits to the PS-285 source site by the IEM were completed on March 14, 2011 to observe test pits and on March 25, 2011 to discuss the approval process and submittal requirements. NYCDPR requested the IEM purchase an EDR Report for the site on March 25, 2011.

The IEM witnessed additional test pits and sampling on March 29, 2011. At the time of sampling, certain portions of the source site were not accessible for sampling. Samples were collected from four test pits and composited into two samples. Lab results were provided on March 30, 2011, but were deemed incomplete by the IEM. A revised report was submitted to the IEM addressing the missing parameters, but it did not address the non-compliant dioxin/furan USEPA Test method used to generate the lab report. Final laboratory data was submitted to the IEM for review on April 5, 2011. Laboratory results were compared to the Site Permit requirements and no exceedances of shaping material limits were identified. Additional review by the IEM and the NYSDEC was required to determine if the source site was approved for material importation to the Site. The IEM completed the review of NYCDPR's EDR and desktop review, and issued a memo to the NYSDEC detailing the IEM's review results on April 5, 2011. The NYSDEC provided their review comments on April 7, 2011.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.12 Flushing Hotel (133-63 Roosevelt Avenue/39-20 Prince Street, Queens, NY)

NYCDPR requested that the IEM order and provide the EDR materials to NYCDPR for their review and submission to the IEM. The draft initial submittal was provided to the IEM over the course of several days (April 5, 6, and 7, 2011). The IEM’s review commenced during this timeframe.

The IEM witnessed test pits and sampling at the Flushing Hotel source site on April 8, 2011. Final laboratory data was submitted to the IEM for review on April 19, 2011. Laboratory results were compared to the Site Permit requirements and no exceedances of shaping layer material limits were identified. Additional review by the IEM and the NYSDEC was required to determine if the source site was approved for material importation to the Site.

The IEM conducted a review of NYCDPR's EDR review, as well as a full review of the EDR, and submitted Phase I and Phase II ESA reports. The IEM reviewed the lab results provided on April 19, 2011. The IEM prepared a review document dated April 20, 2011 titled "Flushing Hotel Source Site - Desktop Submittal Review" and submitted it to NYSDEC and NYCDPR. The NYSDEC provided a response on April 21, 2011.

NYCDPR provided the IEM with supplemental historical lab data and two (2) separate Phase II reports on April 26, 2011. The IEM provided additional review comments based on the aforementioned documents to NYCDPR via conference call and email on April 29, 2011. NYCDPR provided a draft submittal response package dated May 5, 2011.

NYCDPR provided the IEM with a final submittal dated May 13, 2011 in response to IEM comments. The IEM reviewed the final submittal and transmitted that submittal to the NYSDEC for review and comment on May 18, 2011. Due to the fact that this was a complex site, final comments regarding acceptance for import to the Site was to be provided by the NYSDEC.

Conditional approval for the export of shaping material from rows 4, 5, and 6 was provided from the NYSDEC on May 27, 2011. The IEM witnessed the first day of test pits on June 3, 2011 as requested by NYCDPR. Five test pits were excavated at the source site to the maximum depth reachable by the heavy equipment available. The IEM witnessed a second day of test pits on June 6, 2011 as requested by NYCDPR. Three additional test pits were excavated to the maximum depth reachable by the heavy equipment available. NYCDPR submitted a revised site review proposal for importing shaping layer material from this source site on June 15, 2011.

A total of eight (8) test pits were excavated at the Flushing Hotel source site on June 3 and June 6, 2011. One composite sample and one discrete VOC sample was collected from each test pit. Lab results were submitted to the IEM on June 10, 2011. The IEM provided preliminary review and comments to NYCDPR regarding the source site review proposal on June 17, 2011.

The IEM submitted the memo of recommendations to the NYSDEC on June 20, 2011. The IEM visited the site on June 21, 2011 to confirm conditions within the memo of recommendations were met or could be achieved. The IEM reported conclusions to the NYSDEC via email on June 21, 2011. The observed site conditions did not allow for the source site to be approved due to the presence of asphalt, objectionable material, and stockpiles that did not allow for the confirmation of soil elevations. The NYSDEC also indicated that as of June 21, 2011, a formal submittal from NYCDPR to NYSDEC had not occurred to date. The IEM's site observations from June 21, 2011, were emailed to NYCDPR on June 23, 2011. NYCDPR submitted a revised site proposal on June 27, 2011. On June 28, 2011, the IEM indicated that items included in NYCDPR's submittal were non-complaint with the current Site Permit requirements, and therefore required approval from the NYSDEC.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.13 2nd Avenue (2nd Avenue and 94th Street, New York, NY)

The IEM witnessed fill material sampling for this potential source site on May 12 (two samples) and May 16, 2011 (one sample) regarding acceptance of crushed rock from NYCMTA's 2nd Avenue Subway construction project at 94th Street in Manhattan. Samples were analyzed for the nine RCRA metals and all passed the Site Permit requirements relative to the nine RCRA metals. One sample on May 12 was collected from material directly out of the hopper after it was deposited into a truck and the other sample was taken from a stockpile. The May 16 sample was also taken from material that came directly out of the hopper and deposited directly into a truck. The NYSDEC performed all associated reviews for this

source site similar to the East Side Access source site due to the nature of the material that was being generated from subway tunnel construction.

The NYSDEC provided approval for this source site to export shaping layer material to the Site. Shaping layer material sampling began on May 26, 2011 and occurred on a continual basis after each consecutive 2,000 cubic yards of material was imported to the Site.

Approximately 86,667.95 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.14 2nd Avenue (2nd Avenue and 72nd Street, New York, NY)

NYSDEC staff reviewed NYCDPR's submittal dated October 28, 2011 regarding acceptance of crushed rock from NYCMTA's 2nd Avenue Subway construction project at 72nd Street in Manhattan which was proposed for import to the Site. NYCDPR's proposal was acceptable to the NYSDEC provided that a composite sample of this material was tested for the proposed analytical parameters and the sample results were obtained (and approved) prior to loading material for export to the Site.

The IEM reviewed the lab results related to the IEM witnessed source site sampling conducted on December 5, 2011 for the proposed shaping layer material at the source site. The IEM identified that the sampled material was unacceptable for import to the Site based on the fact that the detected value for Arsenic was 38.4 ppm. The permit allowable maximum concentration for Arsenic is 28 ppm. The sampled material was determined to be unacceptable for import to the Site as shaping layer material per the Permit. It was determined that no material may be imported from the 2nd Avenue at 72nd Street source site to the Site. The IEM also witnessed that the physical composition of the sampled material was not that of pure stone dust as witnessed previously at the 2nd Avenue (94th Street) and East Side Access source sites. This material had stones as large as 12 inches to 24 inches in size. The IEM was advised that the hopper at the 2nd Avenue at 72nd Street source site used a screen that contained openings that were 24 inches by 20 inches.

On December 5, 2011, NYCDPR requested that the IEM witness one additional sample from the 2nd Avenue at 72nd Street source site. On December 6, 2011 in response to NYCDPR’s request to perform one additional sample, the NYSDEC stated that if re-sampling produced acceptable results, a more stringent sampling frequency would be required for this source (i.e. one sample per 2,000 cubic yards instead of one sample per 10,000 cubic yards). NYCDPR advised the IEM that they were not pursuing material from this source site any further because it did not meet the specified physical properties for the golf course construction.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.15 Alexander Hamilton Bridge (Bronx, NY)

NYCDPR notified the IEM on February 8, 2012 that NYCDPR was interested in the opportunity to obtain potential shaping layer materials from the Alexander Hamilton Bridge source site (originally sampled July

7, 2009) which had been reviewed and approved in the past by the previous IEM. The IEM requested, obtained, and reviewed the previous files for the source site including previous approvals and corresponding lab data. On February 10, 2012, the IEM requested and received the proposed location for the recently considered shaping layer material.

The IEM visited the Alexander Hamilton Bridge source site on February 22, 2012. The IEM visually inspected a stockpile of approximately 3,000 to 5,000 cubic yards of potential shaping layer material from the previously approved source site (as per IEM records from 2009). Upon a visual inspection, it was determined that the material did not meet the Site Permit requirements due to the presence of unauthorized C&D material including asphalt and metal, as well as other miscellaneous debris. Site observations were photo documented. The IEM notified NYCDPR of its observations and NYCDPR determined that they did not want to pursue this source site any further at that time.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.16 Throgg's Neck/Target/USPS (815 Hutchinson River Parkway, Bronx, NY)

On February 28, 2012, NYCDPR requested that the IEM begin the source site review for the Throgg's Neck/Target/USPS source site. The source site was an existing USPS building that was proposed to be redeveloped with a new Target retail building. The anticipated volume of material being considered as potential shaping layer material was reported to be approximately 20,000 cubic yards per information forwarded to the IEM by NYCDPR. The IEM ordered the EDR and provided the EDR information to NYCDPR. The IEM reviewed the Phase I ESA and the Phase II ESA. The IEM completed a review of the EDR on March 9, 2012. NYCDPR provided the IEM with an EDR review memo on March 27, 2012. The IEM provided NYCDPR with some initial comments and NYCDPR submitted a revised EDR review memo on April 2, 2012.

NYCDPR provided the IEM with a proposed sample location plan with proposed depths for source site sampling on April 19, 2012. The IEM provided comments on a revised sampling plan identifying the location and quantity of test pits on April 20, 2012.

The IEM witnessed three of ten proposed test pits and the associated source site sampling at the source site on April 25, 2012. The remaining test pits were completed and witnessed by the IEM on May 11 and May 14, 2012.

The IEM reviewed the lab data (originally dated May 15 and May 24, 2012 and revised May 30, 2012) and no exceedances of shaping layer material limits were identified. The IEM prepared a memo of recommendations and submitted it to the NYSDEC on May 30, 2012. The NYSDEC reviewed the IEM's May 30, 2012 memo of recommendations for the source site. On May 31, 2012, the NYSDEC approved importation of shaping material from this source site to the Site, provided that all recommendations in the memo of recommendations were implemented. The source site commenced trucking shaping layer material to the Site.

The IEM conducted an inspection of the source site on November 6, 2012. The purpose of the inspection was to determine if site conditions warranted allowing the source site to resume importation of shaping layer material to the Site, in light of the nine truck rejections (due to presence of asphalt) that occurred on October 23, 2012 (resulting in ceasing of importation that same day). Based on the IEM inspection and observations, it was determined that importation may resume to the Site. Observations included surface asphalt had been stripped from within the approved limits of excavation between former TP-6 and TP-8, stockpiles of excavated soil from areas outside the approved excavation limits (i.e. cut along Weiner Place) were located outside the approved excavation limits, and no stockpiles of asphalt material or other poor housekeeping practices were observed within the current area in preparation for export to the Site. NYCDPR was notified that all importation must comply with all previous conditions outlined in the source site approval memo of recommendations (i.e. top +/-3 feet of fill was not approved for importation to the Site; this layer was clearly identifiable due to its color and consistency relative to the native approved material).

The IEM was on-site at the source site on February 6, 2013 to complete a source site inspection associated with a request to resume import to the Site. The site was approved to resume importation of shaping layer material on February 6, 2013 based on the IEM's inspection, which confirmed that the material originated from IEM inspected/approved areas, and the fact that the material is the native approved soil, and there are no signs of asphalt or historical fill on-site in the vicinity of the work area. The area inspected was consistent with the approved areas included in the original NYSDEC approval and IEM memo of recommendations.

Approximately 27,262.77 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.17 PS-287 (110-10 Northern Boulevard, Queens, NY)

On March 2, 2012, NYCDPR requested that the IEM begin the source site review for the PS-287 source site. The source site was a former parking facility that was being redeveloped into a new school. The anticipated volume of material being considered as potential shaping layer material was reported to be approximately 7,000 to 9,000 cubic yards per information forwarded to the IEM by NYCDPR. The source site operator expected to remove the top two feet of asphalt and historical fill, as well as a one-foot buffer. The potential shaping layer material that was being considered was what was claimed to be native soils from a depth of approximately 3 feet to 15 feet below grade. NYCDPR and the site operator wanted to proceed with sampling prior to review of the EDR. A sampling plan was provided to the IEM for review. The IEM completed a review of submitted documents including the Phase I ESA, Phase II ESA, and the proposed sampling plan and issued a review memorandum with comments on March 7, 2012. The site operator submitted a revised sampling plan for review by the IEM on March 8, 2012.

The IEM received NYCDPR's initial review of the EDR on March 14, 2012. The IEM completed a review of the EDR and forwarded a copy to NYCDPR on March 16, 2012. On March 16, 2012, the IEM requested that NYCDPR submit a revised EDR review memo incorporating the identified Recognized Environmental Concerns ("RECs") and other site conditions that were not included in the original review memo.

On March 22, 2012, the IEM received sample results for shaping layer source site sampling that occurred on March 15, 2012. The IEM completed an initial review of the sample data and although there were no exceedances relative to the Site Permit limits for the parameters that were analyzed in the lab reports, there were multiple parameters missing from the lab report.

The IEM received a revised lab report for the PS-287 source site on March 28, 2012. The IEM reviewed the revised lab report for the previously missing lab data and confirmed that the tested soil met the Site Permit criteria for shaping layer material. The IEM issued a memo of recommendations for this source site to the NYSDEC on March 28, 2012. The IEM visited the source site on March 30, 2012 and confirmed that all asphalt, historic fill, and areas not being considered for import to the Site were previously removed from the source site to the appropriate depth including the one-foot buffer below the fill layer. The NYSDEC approved the PS-287 source site for shaping layer material and NYCDPR was notified of the approval on April 2, 2012.

Approximately 6,754.8 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.18 City Point Brooklyn (1 DeKalb Avenue, Brooklyn, NY)

The IEM issued a desktop review summary for the City Point Brooklyn source site to the NYSDEC on July 27, 2012. The review included information acquired or provided to the IEM including EDR files, Phase II report, and boring information. The material being considered was approximately 22,000 cubic yards of native material proposed to be used as shaping layer material.

The NYSDEC approved the City Point Brooklyn source site for further investigation (i.e. physical and visual inspection via test pits and sampling) on August 13, 2012 since all environmental samples for the source site were made available to the IEM for review.

The IEM was on-site at the source site on August 31, 2012 to witness site investigation and sampling activities for 8,000 cubic yards of potential shaping layer material.

On September 11, 2012, the IEM received sample results for source site sampling that occurred on August 31, 2012. On September 20, 2012, the IEM issued a Site Investigation Memorandum (dated September 19, 2012) to the NYSDEC for review for the source site related to IEM witnessed activities that occurred at the source site on August 31, 2012.

On September 25, 2012, the NYSDEC notified the IEM that the City Point source site was conditionally approved pending implementation of the recommendations included in the IEM's September 19, 2012 Site Investigation Memorandum and satisfactory responses to NYSDEC questions.

On October 10, 2012, the IEM notified NYCDPR that the City Point Brooklyn source site was approved by the NYSDEC considering implementation of the recommendations included in the IEM's September 19,

2012 Site Investigation Memorandum. The IEM needed to complete a final inspection of the proposed material prior to importation to the Site.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.19 400 Park Avenue South (New York, NY)

The IEM received initial documents associated with this source site beginning on July 3, 2012. The IEM performed an initial review of the submitted documents. The IEM requested a proposed sampling plan on July 11, 2012.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.20 Union Street (43-31 Union Street, Flushing, NY)

On May 15, 2012, NYCDPR submitted a request to the NYSDEC to import shaping layer material from the Union Street source site. On June 11, 2012, the NYSDEC provided NYCDPR with email approval to import up to 30,000 cubic yards of shaping layer material from the Union Street source site based on environmental testing results submitted to the NYSDEC that was not witnessed by the IEM. On June 14, 2012, NYCDPR notified the IEM that they would begin importing, no earlier than June 18, 2012, an estimated 5,000 to 10,000 cubic yards of shaping layer material from this source site to the Site. The material originated from 30 to 55 feet below grade.

Approximately 1,675.69 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.21 Mount Vernon Recycling Corp. (113 Edison Avenue, Mount Vernon, NY)

On November 27, 2012, the IEM notified NYCDPR that the topsoil on-site that originated from the Mount Vernon Recycling Corp. facility was approved as shaping layer material based on previous NYSDEC approval allowing material to be used as shaping material, and the fact that the material passed all Site Permit criteria per IEM witnessed sample collection and a review of the associated analytical reports. The IEM witnessed sampling on October 11 and November 12, 2012. The approval was pending a receipt of all truck tickets/manifests, and confirmation of the volume of on-site soil. The Site Permit requires that this material be covered with a minimum 1-foot thick layer of approved cover soil.

Approximately 3,920.0 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.22 228th Street (Rosedale, NY)

The IEM completed a review of initial lab data dated December 28, 2012 for the 228th Street source site. Of the 12 lab reports that were reviewed, none of the sampled soil exceeded Site Permit levels for the shaping layer parameters that were analyzed in the reports. A significant number of parameters (including some VOCs, SVOCs, pesticides, and metals) were not analyzed and NYCDPR was notified of the review

findings on January 22, 2013. Sample collection for the submitted lab reports was not witnessed by the IEM.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.23 Evergreen Recycling/Tully Environmental (Willets Point Boulevard, Corona, NY)

On January 28, 2013, the IEM notified NYCDPR that an initial review of the lab data provided for the Evergreen Recycling source site (operated by Tully Environmental) was completed. Sampling was not witnessed by the IEM. There were no exceedances relative to the Site Permit criteria for shaping layer material, however there were a significant number of parameters that were not analyzed. The IEM received a Registration Form for a Waste Management Facility (DEC Registration # 41W93) for the source site. The IEM performed a visual inspection of stockpiled material at the source site material on January 30, 2013 and identified asphalt fragments in the source site material. The stockpiled material was not acceptable for import to the Site based on the presence of asphalt.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.24 Waterpointe-Whitestone

On February 1, 2013, the IEM notified NYCDPR that an initial review of the lab data provided for the Waterpointe-Whitestone source site was completed. Sampling was not witnessed by the IEM. There were no exceedances relative to the Site Permit criteria for shaping layer material, however there were a significant number of parameters that were not analyzed.

On March 27, 2013, the NYSDEC informed NYCDPR that shaping layer material from the Waterpointe-Whitestone source site could be imported to the Site if the material meets the required Permit limits and that the NYSDEC review would continue once involved staff was available to complete the review. On April 3, 2013, the IEM forwarded the NYSDEC correspondence regarding previous NYSDEC work plan acceptance for the proposed source site, which was for work occurring as part of a separate project under NYSDEC review.

On April 3, 2013, the NYSDEC confirmed that the Waterpointe-Whitestone source site was not approved as a potential source for shaping layer material.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.25 Don Carlo Environmental/Brooklyn (1247 38th Street, Brooklyn, NY)

On February 1, 2013, the IEM notified NYCDPR that an initial review of the lab data provided for the Don Carlo Environmental/Brooklyn source site was completed. Sampling was not witnessed by the IEM. The results in the submitted report exceeded the levels in the Site Permit for shaping layer material for the

VOC's ethylbenzene (6.9 ppm vs. 5.5 ppm), toluene (2.1 ppm vs. 1.5 ppm), and xylenes (57 ppm vs. 1.2 ppm). There were a significant number of parameters that were not analyzed.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.26 Castle Hill Recycling (1000 Zerega Avenue, Bronx, NY)

On February 11, 2013, NYCDPR provided the IEM with a permit for Castle Hill Recycling (DEC Registration #03-W-94) that was being considered as a potential shaping layer material source site. The IEM was notified that the source site was creating a 2,000 cubic yard stockpile for sampling. Castle Hill Recycling was a NYSDEC registered solid waste management facility.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.27 Springfield Gardens

On February 21, 2013, the IEM completed an initial review of a soil analysis summary documentation (no lab reports) for approximately 2,500 cubic yards of potential shaping layer material at the Springfield Gardens source site as provided by NYCDPR. The IEM did not witness sample collection. The IEM notified NYCDPR that there were several parameters exceeding the Site Permit criteria and multiple required parameters were not analyzed.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.28 Calvert Vaux (Brooklyn, NY)

On February 20, 2013, NYCDPR provided the IEM and NYSDEC with lab data for the Calvert Vaux source site for approximately 500 cubic yards of shaping layer material. On February 22, 2013, the IEM was notified by the NYSDEC that the NYSDEC would be handling the review of this source site.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.29 160 Myrtle Avenue (Brooklyn, NY)

On February 20, 2013, NYCDPR forwarded the IEM initial sample data information for a potential shaping layer material source site located at 160 Myrtle Avenue, Brooklyn, NY. The potential shaping layer materials totaled approximately 40,000 cubic yards. On February 21, 2013, the IEM notified NYCDPR that the initial review of the soil analysis summary documentation (no lab reports) was completed for the information provided to the IEM. The reviewed material had exceedances for lead and mercury relative to the Site Permit criteria.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.30 215 E. 68th Street (New York, NY)

On March 7, 2013, NYCDPR requested that the IEM review initial lab data for approximately 3,000 to 4,000 cubic yards of potential shaping material at 215 E. 68th Street, New York, NY. On March 8, 2013, the IEM notified NYCDPR that there were exceedances for Mercury and total cSVOC's for multiple samples and multiple VOC, SVOC, Pesticide, and TCLP VOC parameters were missing in all samples.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.31 DEP Valhalla (10 Walker Road, Valhalla, NY)

On February 25, 2013, the IEM initiated review of potential shaping material at the DEP Valhalla source site (Catskill and Delaware Water Treatment Facility). On March 1, 2013, the IEM notified the NYSDEC that a review of the initial lab results and site background information was completed. The initial review indicated that there were no exceedances relative to shaping layer material criteria for the hardcopy data, some sample parameters were missing, and there were no records indicating unacceptable background conditions. The IEM notified the NYSDEC that there was a discrepancy in the hardcopy and electronic data and clarification was requested from NYCDPR/NYCDEP. On March 5, 2013, the IEM completed a visual and physical inspection of the potential shaping layer material at the source site. On March 6, 2013, the IEM notified NYCDPR and the NYSDEC that the potential shaping layer material passed all visual and physical inspection requirements and the material passed the Site Permit criteria for shaping layer material (hardcopy data) although not all parameters were tested. In addition, the data provided electronically on CD contained information demonstrating that previous soil investigations identified soil containing elevated levels of lead and mercury that did not pass the Site Permit criteria for shaping layer material. It was communicated to the IEM verbally that the NYCDEP has been handling all impacted soil separate from the stockpiled material that was inspected, and that all impacted soil has been disposed of off-site and tracked accordingly.

On March 13, 2013, the IEM received requested documentation from the source site owner/operator regarding conditions of the existing soil stockpile and removal of contaminated materials at the DEP Valhalla source site. On March 14, 2013, the IEM notified NYCDPR that the IEM must be notified prior to importation of shaping layer material from the DEP Valhalla source site in order to witness initial loading of trucks at the source site.

Approximately 6,631.2 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.32 Tilcon (Bronx) (980 East 149th Street, Bronx, NY)

On April 1, 2013, the IEM received initial lab data and a NYSDEC Registration Form for a Solid Waste Management Facility (NYSDEC Registration #03W39R) for the Tilcon (Bronx) source site. On April 1, 2013, the NYSDEC confirmed that the Tilcon (Bronx) source site had a valid Registration Form for a Solid Waste Management Facility. On April 2, 2013, the IEM notified NYCDPR that a review of the initial lab data was completed and noted that sampled parameters did not exceed Site Permit criteria for shaping layer

material (samples WCA-1 to WCA-6), however the following parameters were not analyzed: TCLP Metals missing for sample WCA-3, WCA-5, and WCA-6, VOC: 1,2,4-trichlorobenzene, methyl ethyl ketone, and tetrachloroethylene in all samples, SVOC: 4-chloro-3-methylphenol, 2-chlorophenol, 4-methylphenol, and naphthalene in all samples, and Pesticides: 2,4 D, dibenzo-p-dioxins, endrin ketone, gamma-bhc, gamma-chlordane, mitotane (2,4 DDD), and parathion. On April 3, 2013, the IEM witnessed sampling of approximately 4,000 cubic yards of the proposed shaping material at the Tilcon (Bronx) source site.

On April 9, 2013, the IEM notified NYCDPR that the Tilcon (Bronx) shaping layer material, totaling approximately 4,000 cubic yards, witnessed by the IEM on April 3, 2013, was acceptable for import to the Site due to the fact that environmental results met the Site Permit requirements. The IEM conducted a visual inspection of material, and the IEM confirmed that the material did not contain unauthorized materials (i.e. asphalt, C&D debris, etc.).

Approximately 3,041.8 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.33 NY Recycling (475 Exterior Street, Bronx, NY)

On April 23, 2013, NYCDPR requested that the IEM initiate review of a potential shaping layer material source site named New York Recycling. On April 24, 2013, the IEM verified that the facility's NYSDEC registration was valid and that the submitted analytical results did not reveal any exceedances relative to the Site shaping layer material Permit requirements; however, several parameters were missing including TCLP metals, TCLP VOCs, and four pesticide parameters. NYCDPR was notified that in order to proceed with this potential source site, the IEM will need to complete a site visit to the facility for visual and physical inspection of the material, and witness collection of samples for chemical testing. In addition, NYCDPR would be required to collect a sample of the fines for submittal to the NYSDEC for review. On April 25, 2013, NYCDPR requested that the IEM take a grab sample of the material fines and provide that sample to the NYSDEC as required. On April 30, 2013, the IEM performed a visual, physical, and PID inspection of the material and collected a sample of fines using a No. 35 sieve. The sample was delivered to the NYSDEC on April 30, 2013.

On Friday, May 24, 2013, the IEM notified NYCDPR that Stockpile #1 of NY Recycling shaping layer material (approximately 8,000 CY) was acceptable for import to the Site due to the fact that the source site qualified as a valid NYSDEC registered C&D processing facility, the IEM conducted a visual/physical inspection of the stockpile on April 30, 2013, the IEM confirmed that the stockpiled material did not contain unauthorized materials (i.e. asphalt, C&D debris, etc.), all PID readings measured 0 ppm, and the environmental results were acceptable per the Site Permit requirements for IEM witnessed sampling completed on May 21, 2013. In addition, a sample of fines was collected by the IEM and submitted to NYSDEC for visual review, and subsequent approval. Approved shaping material to be trucked to the Site could only originate from the stockpile witnessed during the May 21, 2013 sampling event.

On June 19, 2013, the IEM notified NYCDPR that Stockpile #2 of NY Recycling shaping layer material (approximately 10,000 cubic yards) as witnessed by the IEM on June 11, 2013, was acceptable for import

to the Site. The IEM conducted a visual/physical inspection of stockpile #2 on June 11, 2013, and the IEM confirmed that the stockpiled material did not contain unauthorized materials (i.e. asphalt, C&D debris, etc.). The site qualified as a valid NYSDEC registered C&D processing facility and the test results were acceptable per the Site Permit requirements. Approved shaping material to be trucked to the Site could only originate from the stockpile witnessed during the June 11, 2013 sampling event.

On July 16, 2013, the IEM notified NYCDPR that the latest stockpile of shaping layer material (approximately 5,000 cubic yards) from the NY Recycling source site was acceptable for import to the Site. The submitted lab report met all Permit chemical requirements for sample collection witnessed by the IEM on July 11, 2013 and met Permit visual and physical criteria as per inspection by the IEM.

On August 1, 2013, the IEM notified NYCDPR that the latest stockpile of shaping layer material (approximately 5,000 cubic yards) from the NY Recycling source site was acceptable for import to the Site. The submitted lab report met all Permit chemical requirements for sample collection witnessed by the IEM on July 29, 2013 and met Permit visual and physical criteria as per inspection by the IEM.

On October 24, 2013, the IEM notified NYCDPR that the latest 5,000 cubic yard stockpile of NY Recycling shaping layer material as represented by the submitted TAGM lab report and per samples witnessed by the IEM on October 11, 2013, was acceptable for import to the Site. The approval was based on the fact that the source site qualified as a valid NYSDEC registered C&D processing facility and the IEM conducted a visual/physical inspection of the stockpile on October 11, 2013. The IEM confirmed that the stockpiled material did not contain unauthorized materials (i.e. asphalt, C&D debris, etc.), and all PID readings registered in at 0 ppm. The test results were acceptable per the Site Permit requirements. Approved shaping material to be trucked to the Site could only originate from the stockpile witnessed during the October 11, 2013 sampling event.

Approximately 26,688.05 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.34 Little Bay (Queens, NY)

On October 16, 2013, the IEM notified NYCDPR of the findings associated with a preliminary review of available data for the Little Bay source site. The IEM reviewed lab data for Stockpiles 1 through 9 (S-1 through S-9). The lab report did not capture all of the parameters required for testing by the Site Permit, and was missing the full TCLP VOC and TCLP Metals analyses, as well as several SVOC, VOC, Pesticide/Herbicide, and PCB parameters. Based on the data presented, at a minimum, the following stockpiles did not pass the Site Permit criteria as shaping layer material: S-1 exceeded for copper, lead, mercury, and total PCBs; S-4 exceeded for mercury; S-5 exceeded for lead and mercury; and S-9 exceeded for mercury and total PCBs.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.2 Cover Layer Material

Materials accepted for use as cover layer on the Site were sampled prior to acceptance and after each additional 2,000 cubic yards. As per the 2005 Permit modification, the parameters for cover layer material included the complete analyte list of TAGM 4046 for total VOCs, total SVOCs, total pesticides and herbicides, total PCBs, total metals, sulfur, and asbestos.

Fill material imported to the Site and used for the cover layer was subject to the following requirements, per Special Condition 14 of the 2014 Permit and Section 4.2.1.2 of the 2013 Engineering Report. A table of the cover layer material chemical acceptance criteria listed below is included in Appendix C.2 of the 2013 Engineering Report.

In order for topsoil material to be used on the Site for the cover layer, it was sampled prior to acceptance and after the importation of each additional 2,000 cubic yards (in truck volumes). Each soil sample was analyzed for the entire analyte list in the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046, total volatile organic compounds (VOCs), total semi-volatile organic compounds (SVOCs), pesticides and herbicides, polychlorinated biphenyls (PCBs), and metals (including Resource Conservation and Recovery Act (RCRA) metals).

Based on source site reviews and site testing activities, the cover layer material imported to the Site met the following chemical limits:

TAGM 4046 Table 1 – Volatile Organic Compounds (VOCs)

TAGM 4046 Table 2 – Semi-Volatile Organic Compounds (SVOCs)

TAGM 4046 Table 3 – Pesticides/Herbicides and Polychlorinated Biphenyls (PCBs)

TAGM 4046 Table 4 – Metals

Total Asbestos 0.5% or less

Total Sulfur 0.5% or less

The following additional criteria were directed in NYSDEC correspondence:

April 30, 2009 – Directed NYCDPR not to accept or place on the Site any cover layer materials with arsenic concentrations greater than 16 ppm or lead concentrations greater than 400 ppm.

July 28, 2009 – Provided a table to NYCDPR listing modified heavy metal chemical limits for the cover layer at the Site.

September 25, 2009 – Revised and clarified the chromium chemical limits for the cover layer previously presented in the July 28, 2009 letter.

NYCDPR followed the NYSDEC's directives since receipt of each one associated with the importation of cover layer material to the Site.

Details of the source site reviews and site testing for each potential cover layer material source site are as follows.

3.1.2.1 Bloomingburg (C.M. & Sons Trucking Site, 680 Bloomingburg Road, Bloomingburg, NY)

NYCDPR requested that the IEM witness fill material sampling for this potential source site on May 9, 2011. The Site is a sand and gravel supply yard. Material was separated into sand and gravel of various sizes and stockpiled. The source site had been importing sand and gravel material from a nearby real estate development under construction. Material being considered for the Site included two stockpiles (SP-1 and SP-2) of a brown, medium to coarse sand. Both stockpiles were from material generated on-site. Each stockpile was approximately 25,000 cubic yards. Prior to sample collection the piles were screened in various locations using a calibrated PID. No detections of VOCs were observed. The material was inspected using a 3/4-inch screen. No prohibited materials were observed in the screened material. The IEM witnessed a total of six samples collected from two separate stockpiles. Per the AES sampling plan, three samples were collected from each stockpile. Each sample consisted of 20 grabs (depths ranging from the surface to three feet into the pile) which were composited. One discrete grab per sample was collected specifically for VOC analysis without being composited.

NYCDPR provided the IEM authorization to commence review of this source site on May 24, 2011. NYCDPR requested this source site review be put on hold on May 27, 2011. It was requested by NYCDPR that the IEM witness sampling for physical parameters on June 1, 2011. NYCDPR provided authorization to the IEM to order the EDR on NYCDPR's behalf on June 8, 2011.

On June 24, 2011, the IEM emailed the final source site review updates to NYCDPR which identified that Sample #2 for SP-1 failed to meet the cover layer material Permit requirements due to an Antimony exceedance. NYCDPR requested that the source site review be put on hold on June 24, 2011. On June 30, 2011, NYCDPR requested that the IEM resume the source site review. The IEM notified NYCDPR that the review was completed on June 24, 2011 and forwarded the original June 24, 2011 review findings/comments to NYCDPR. On July 1, 2011, NYCDPR requested that the IEM provide the EDR files to NYCDPR which were ordered for the site in June. The IEM resubmitted the EDR files to NYCDPR.

On July 8, 2011, NYCDPR submitted a preliminary review of the EDR to the IEM via email. The IEM provided comments to NYCDPR via email. On July 11, 2011, NYCDPR submitted a preliminary site review submittal via email and the IEM provided comments to NYCDPR via email. On July 12, 2011, NYCDPR submitted the site review submittal to the NYSDEC and the IEM via email. On July 12, 2011, the NYSDEC requested that the IEM provide preliminary comments of NYCDPR's submittal and the IEM provided comments to the

NYSDEC via email. On July 15, 2011, the NYSDEC provided comments to the IEM and a request for clarification on NYCDPR's submittal.

The IEM provided NYCDPR a review status update with respect to this source site via phone and email on July 20, 2011. The update contained action items required for NYCDPR to advance the review process. The IEM provided the NYSDEC with an update on the status of NYCDPR submittals for this source site on July 22, 2011 via email. NYCDPR provided the cover layer material permeability testing results to the IEM on July 22, 2011. The IEM consulted with the NYSDEC beginning on July 22, 2011 regarding the permeability results and the IEM notified NYCDPR on July 28, 2011 that the cover soil permeability rate of 1.51 X 10-2 cm/s (21.4 in/hr.) did not meet the NYSDEC maximum allowable permeability of 1 x 10-2 cm/s (14.7 in/hr.). The IEM also requested clarification on NYCDPR's intent on handling the SP-1 Antimony exceedance as identified in lab reports.

NYCDPR requested the analytical lab data from the IEM on August 8, 2011 and indicated that they would be submitting a final proposal to the NYSDEC regarding the request to import cover material from the Bloomingburg source site by addressing outstanding metals and permeability requirements. The IEM forwarded requested lab data to NYCDPR via email on August 8, 2011.

IEM staff visited the Bloomingburg source site to inspect the cover layer material on October 6, 2011 and the existing material appeared to be the same material that the IEM inspected originally in May 2011 with the exception that SP-1 had been removed off-site and was no longer available. The results of the site visit were consistent with what the IEM was told by the site operator earlier on October 6, 2011. The IEM confirmed that the GPS coordinates of the stockpile (SP-2) were consistent with the original location, the soil appeared to be the same color and consistency, and the stockpile had vegetation growing on it, indicative that it had been untouched for an extended period. The IEM witnessed the loading of one truck on October 6, 2011 headed to the Site, which was carrying approximately 26 cubic yards of cover layer material. IEM staff was on-site at Bloomingburg on October 7, 2011 to witness the initial rounds of cover layer material loading.

In general, the NYSDEC allowed up to 16,000 cubic yards of approved cover material (from all cover material source sites) to be stockpiled in the rough of holes 4 and 5 (8,000 cubic yards per hole) prior to satisfying the conditions associated with spreading the cover material on the Site. These conditions included meeting permeability and shaping layer thickness requirements. On October 21, 2011, the NYSDEC provided NYCDPR with a conditional approval to allow NYCDPR to import cover layer material with a permeability of up to 30 inches per hour pending NYCDPR submitting for approval of an amendment to the Stormwater Pollution Prevention Plan (SWPPP). With this permeability approval, NYCDPR was notified that they could spread cover material on-site at their own risk pending shaping layer thickness compliance which occurred at a later time.

Approximately 4,768.0 cubic yards of cover layer material were imported to the Site from this source site.

3.1.2.2 Ranco Sand (115 South Street, Manorville, NY) [LAWS]

On December 2, 2011, the IEM was directed by NYCDPR to order the EDR for the Ranco Sand source site located in Manorville, NY. The IEM visited the Ranco Sand source site on December 8, 2011 to inspect a stockpile of approximately 10,000 to 12,000 cubic yards of proposed cover soil. The soil was inspected and visually appeared to be 100% sand, free of any debris. The material appeared to be native as it was mined from a NYSDEC permitted facility, extending approximately 100 feet below original grade. The stockpile of sand that was inspected was mined from below the water table.

The IEM witnessed the collection of six composite soil samples and six discrete VOC samples, as well as a physical sample to be analyzed for permeability. The IEM logged the location of the perimeter of the stockpile via GPS. The source site owner and NYCDPR were made aware that the stockpile must remain untouched in order for the material to be considered for approval.

NYCDPR/LAWS submitted a copy of a previous NYSDEC mining permit containing the source site's previous permit number (1-4722-00218/00001). LAWS was informed by the source site representative that the source site is operating under a NYSDEC authorized permit extension.

The EDR was ordered on December 9, 2011. The IEM performed a review of the EDR and provided observations and a list of RECs to the NYSDEC. The IEM received the lab data (from the December 8, 2011 sample event) from LAWS on December 19, 2011. The IEM completed review of the lab data on December 19, 2011 and found that the material met the Site Permit criteria for cover layer soil. The IEM reviewed the NYCDPR submittal associated with the EDR for the source site. Based on review of the NYCDPR EDR review memo, site visits, inspections, and data review, the IEM did not have any objections associated with proceeding with this source site. Prior to receiving approval for importation of this cover material to the Site, the NYSDEC needed to receive and review the permeability testing data.

On January 4, 2012, the IEM forwarded the NYSDEC the permeability data for review. On January 9, 2012, the NYSDEC identified that this source site was conditionally approved as a source for cover material based on samples meeting the approved permeability specification at a frequency of one sample per five hundred cubic yards for the initial 2,000 cubic yards (analysis for permeability only). Thereafter, sampling for permeability would be performed at a frequency of one sample per 2,000 cubic yards if the permeability results for the initial 2,000 cubic yards were satisfactory. This conditional approval was based upon information provided by NYCDPR in its January 5, 2012 email and the IEM's January 4, 2012 email to the NYSDEC. Additional permeability sampling witnessed by the IEM was required since only one IEM witnessed sample has occurred (i.e. January 2, 2012). The IEM witnessed permeability testing at the source site on January 10, 2012.

NYCDPR transmitted additional percolation testing results to the NYSDEC on January 26, 2012. The results were for IEM witnessed sampling completed on January 10, 2012 and January 23, 2012. On January 26, 2012, the NYSDEC provided NYCDPR with approval to use the average of twenty permeability test results as representative of the 12,000 cubic yards of stockpiled cover layer material at the source site. This

approval was based on the fact that loading, transporting, stockpiling, and spreading of the material would result in thorough mixing. The initial 12,000 cubic yards were approved for import to the Site.

On February 1, 2012, IEM staff was on-site to observe loading and transportation of cover layer materials from the approved stockpile and completion of trucking manifests. On February 7, 2012, IEM staff notified NYCDPR and NYSDEC that the IEM had reviewed the environmental sample data for the second round of environmental sampling completed on January 30, 2012 for cover soil (i.e. eight composite samples from an approximately 15,000 cubic yard stockpile). Per the results in the lab report transmitted to the IEM, the IEM verified that the material complied with the Site permit criteria for cover layer material. On February 9, 2012, the IEM reviewed the infiltration rate test results for the second stockpile of cover layer material, and all of the sample results met the Site Permit criteria (i.e. less than 29.4 in/hr.). Based on a review of the submitted environmental data and the infiltration testing data, the second stockpile (up to 16,000 cubic yards) was approved for import to the Site since it met all of the Site Permit criteria.

The IEM was on-site at the Ranco Sand source site on February 22, 2012 to witness sampling of a new stockpile of potential cover layer material (stockpile #3). The IEM witnessed the collection of five samples from the stockpile consisting of approximately 10,000 cubic yards of potential cover layer material.

The IEM reviewed the environmental sampling results from the February 22, 2012 sampling event for this source site and found that the sample results fell below the Site Permit limits. The IEM reviewed the percolation test results and found that the percolation rates for stockpile #3 exceeded the established threshold of 29.4 inches/hour. The IEM required a proposal from NYCDPR on an acceptable approach to remedy the percolation rate exceedance.

On March 15, 2012, the NYSDEC notified the IEM that the environmental testing (TAGM) frequency for this source site had been reduced from one sample per 2,000 cubic yards to one sample per 10,000 cubic yards of cover layer material. The percolation testing frequency remained unchanged at one sample per 2,000 cubic yards.

On March 15, 2012, the NYSDEC found NYCDPR's proposed truck loading and mixing protocol acceptable to address elevated percolation rates for the stockpile #3 materials. On March 19, 2012, the IEM informed NYCDPR that stockpile #3 at the Ranco Sand source site had been approved for import as cover layer material based upon the acceptable environmental testing results and the percolation results in conjunction with the required mixing and truck loading protocol. The IEM witnessed the appropriate truck loading protocol of the first round of trucks at the source site on March 16, 2012. Trucks were loaded in an alternating pattern from both stockpile #2 and stockpile #3.

The IEM witnessed source site sampling at this source site on March 30, 2012. The IEM received a lab report on April 5, 2012 containing infiltration testing data for ten samples collected from stockpile #4. The IEM reviewed the infiltration testing data and confirmed that the results met the permeability requirement for cover soil.

The IEM received the environmental (TAGM) lab report on April 6, 2012 for the samples collected for stockpile #4 on March 30, 2012. On April 9, 2012, the IEM confirmed that sample results for stockpile #4 did not exceed any of the Permit criteria for cover material and the material was acceptable for import to the Site.

The IEM received the environmental (TAGM) lab report on May 9, 2012 for the samples collected for stockpile #5 on April 30, 2012. On May 10, 2012, the IEM confirmed that sample results for stockpile #5 did not exceed any of the Permit criteria for cover material and the material was acceptable for import to the Site. The IEM reviewed the infiltration testing data on May 17, 2012 and confirmed that the results met the permeability requirement for cover soil.

The IEM approved Ranco stockpile #5 on May 17, 2012, as the environmental testing results did not exceed any of the Permit criteria for cover layer material. The 20,000 cubic stockpile from Ranco that was tested and witnessed by the IEM met the Site Permit criteria and was acceptable for import to the Site. Infiltration testing was also approved by the IEM. The NYSDEC lowered the frequency of infiltration testing to one infiltration sample per 10,000 cubic yards for this source site on May 11, 2012. Through May 17, 2012, this source site was approved to export 78,000 cubic yards of cover material to the Site.

The IEM was on-site at this source site on June 8, 2012 to witness the collection of samples from stockpile #6. Two samples were collected for environmental and infiltration analysis for the approximate 20,000 cubic yard stockpile. The IEM received infiltration testing data on June 14, 2012. Infiltration test results were reviewed and approved on June 19, 2012. The IEM received environmental testing lab results on June 18, 2012. The environmental testing lab results were reviewed and approved on June 19, 2012. Stockpile #6 (20,000 CY) did not exceed any of the Site Permit criteria for cover layer material and infiltration requirements and was therefore acceptable for import to the Site.

The IEM was on-site at this source site on July 17, 2012 to witness sampling of stockpile #7 consisting of 10,000 cubic yards of cover layer material. On July 26, 2012, the IEM notified NYCDPR and LAWS that the material from stockpile #7 was acceptable for import to the Site based on the fact that the submitted environmental and infiltration lab reports met the Site Permit requirements.

The IEM reviewed the infiltration and environmental lab reports for stockpile #8 of cover layer material (10,000 cubic yards) sampled on August 14, 2012. The IEM notified NYCDPR on August 22, 2012 that the material was approved for import to the Site as both infiltration and environmental results were acceptable per the Site permit requirements.

On September 17, 2012, the IEM notified NYCDPR that the 10,000 cubic yard stockpile #9 of cover layer material sampled at this source site on September 7, 2012 was acceptable for import to the Site as both environmental and infiltration lab results met the Site Permit requirements.

On October 1, 2012, the IEM notified NYCDPR that the 10,000 cubic yard stockpile #10 of cover layer material sampled at this source site on September 21, 2012 was acceptable for import to the Site as both environmental and infiltration lab results met the Site Permit requirements.

On November 7, 2012, the IEM notified NYCDPR that the 10,000 cubic yard stockpile #11 of cover layer material sampled at this source site on October 17, 2012 was acceptable for import to the Site as both environmental and infiltration lab results met the Site Permit requirements.

On December 10, 2012, the IEM notified NYCDPR that the 10,000 cubic yard stockpile #12 of cover layer material sampled at this source site on November 16, 2012 was acceptable for import to the Site as both environmental and infiltration lab results met the Site Permit requirements.

IEM staff was on-site February 1, 2013 at this source site to perform the visual inspection and witness sampling of the cover soil for environmental and infiltration testing associated with stockpile #13 (10,000 cubic yards). The IEM witnessed collection of one environmental sample and one infiltration sample.

On February 19, 2013, the IEM notified NYCDPR that the latest round of cover layer material for this source site was acceptable for import to the Site based on the fact that both the environmental and infiltration results met the Site Permit requirements. The results were for sampling witnessed by the IEM on February 1, 2013 for stockpile #13.

The IEM witnessed sample collection for stockpiles #14 and #15 totaling 20,000 cubic yards worth of proposed cover layer material at this source site on March 19, 2013. Based on review of submitted lab results, the proposed cover layer material was approved for import to the Site as both infiltration and environmental results were acceptable per the Site Permit requirements.

On June 3, 2013, the IEM notified NYCDPR that the latest round of cover layer material for stockpiles #16 and #17 totaling approximately 20,000 cubic yards were acceptable for import to the Site as both infiltration and environmental results met the Site Permit requirements. Submitted infiltration and environmental lab reports were for sampling witnessed by the IEM on May 22, 2013.

On August 5, 2013, the IEM notified NYCDPR that the latest round of cover layer material for stockpile #18 (approximately 10,000 cubic yards) was acceptable for import to the Site. The submitted infiltration and environmental lab reports for sampling witnessed by the IEM on July 26, 2013 met the Site Permit requirements.

On August 29, 2013, the IEM notified NYCDPR that the latest stockpile of cover layer material for stockpile #19 (approximately 10,000 cubic yards), as represented by submitted infiltration and environmental lab reports, was acceptable for import to the Site. Both infiltration and environmental results met the Site Permit requirements for sampling witnessed by the IEM on August 21, 2013.

On September 13, 2013, the IEM notified NYCDPR that the latest stockpile of cover layer material for stockpile #20 (approximately 10,000 cubic yards), as represented by submitted infiltration and environmental lab reports, was acceptable for import to the Site. Both infiltration and environmental results met the Site Permit requirements for sampling witnessed by the IEM on September 6, 2013.

On October 3, 2013, the IEM notified NYCDPR that the latest stockpile of cover layer material for stockpile #21 (approximately 10,000 cubic yards), as represented by submitted infiltration and environmental lab reports, was acceptable for import to the Site. Both infiltration and environmental results met the Site Permit requirements for sampling witnessed by the IEM on September 25, 2013.

On October 28, 2013, the IEM notified NYCDPR that the latest stockpile of cover layer material for stockpile #22 (approximately 10,000 cubic yards), as represented by submitted infiltration and environmental lab reports, was acceptable for import to the Site. Both infiltration and environmental results met the Site Permit requirements for sampling witnessed by the IEM on October 16, 2013.

On November 8, 2013, the IEM notified NYCDPR that the latest cover layer material stockpile #23 (approximately 10,000 cubic yards), as represented by submitted infiltration and environmental lab reports, was acceptable for import to the Site. Both infiltration and environmental results met the Site Permit requirements for sampling witnessed by the IEM on October 25, 2013.

On November 18, 2013, the IEM notified NYCDPR that the latest cover layer material stockpile #24 (approximately 10,000 cubic yards), as represented by submitted infiltration and environmental lab reports, was acceptable for import to the Site. Both infiltration and environmental results met the Site Permit requirements for sampling witnessed by the IEM on November 8, 2013.

On March 14, 2014, the IEM notified LAWS and NYCDPR that the cover layer material stockpile #24, originally sampled and witnessed on November 8, 2013 was acceptable for importation. On March 14, 2014, the IEM completed a site visit and performed a visual inspection of the existing stockpile on-site.

3.1.2.2.1 Ranco Sand (115 South Street, Manorville, NY) [MFM]

On July 10, 2012, the IEM received lab results for a 10,000 cubic yard stockpile of cover layer material sampled at the Ranco Sand source site on July 2, 2012 for MFM. On July 11, 2012, the IEM confirmed that the environmental lab testing results did not exceed any of the Site Permit criteria for cover layer material environmental analyses however the stockpile could not be approved for import as infiltration test results were not reviewed and approved.

The NYSDEC approved the infiltration test results on August 21, 2012 for stockpiled cover layer material (10,000 cubic yards) sampled on July 2, 2012. Based on the NYSDEC approval of the infiltration results, the IEM notified NYCDPR on August 22, 2012 that the stockpiled material was approved for import to the Site as both infiltration and environmental results were acceptable per the Site Permit requirements.

3.1.2.2.2 Ranco Sand (115 South Street, Manorville, NY) [Triton]

On June 6, 2013, the IEM notified NYCDPR that the revised environmental lab report for a 5,000 cubic yard stockpile met the Site Permit requirements for IEM witnessed sampling completed on May 31, 2013. On June 7, 2013, the IEM notified NYCDPR that the infiltration testing results did not meet the Site Permit requirements.

On June 24, 2013, the IEM notified NYCDPR that the additional infiltration tests analyzed for a 5,000 cubic yard stockpile did not meet the Site Permit requirements for IEM witnessed sampling completed on May 31, 2013 and it was not approved for import to the Site. On June 24, 2013, NYCDPR notified the IEM that this material would not be sampled any further.

Approximately 271,801.2 cubic yards of cover layer material were imported to the Site from this source site based on approved materials noted above in Sections 3.1.2.2 and 3.1.2.2.1.

3.1.2.3 East Coast Mines (Lewis Road near Route 104, East Quogue, NY)

Between August 10 and August 12, 2011, NYCDPR and the IEM coordinated a site visit to the East Coast Mines source site (DEC Facility ID: 1-4736-00539), and discussed review requirements. The EDR was ordered by the IEM on August 12, 2011, and the initial EDR files were forwarded to NYCDPR.

The IEM visited the source site on August 17, 2011 to inspect two stockpiles each consisting of approximately 2,000 cubic yards of soil. The soil was inspected and visually appeared to be sand, free of any debris. The material appeared to be native as it was mined from roughly 80-100 feet below original grade. The stockpiles were inspected with a PID, which yielded no detections. The IEM witnessed the collection of a composite and discrete VOC sample from each stockpile, as well as a physical sample to be analyzed for permeability.

The IEM visited the site again on September 29, 2011 to inspect a separate stockpile of proposed cover layer material of approximately 2,000 cubic yards of soil. The soil was inspected and visually appeared to be sand and free of any debris. The material appeared to be native as it was mined from roughly 80-100 feet below original grade. The IEM witnessed the collection of a composite and discrete VOC sample from the stockpile, as well as a physical sample to be analyzed for permeability. The IEM logged the location of the perimeter of the stockpile via GPS. The source site owner and NYCDPR were aware that the stockpiles must remain untouched in order for them to be considered for approval. NYCDPR performed a review of the EDR. The IEM performed a review of NYCDPR's review submittal, as well as a review of the EDR. No RECs were identified. NYCDPR submitted the facility's NYSDEC mining permit to the IEM.

On October 11, 2011, the NYSDEC identified that they had reviewed the initial analytical data for the East Coast Mines source site and authorized the importation of two stockpiles of cover material totaling approximately 3,500 cubic yards. This approval was associated with cover material that was sampled on August 17, 2011. This material was approved for only stockpiling on-site, and had not been approved for spreading on-site. Cover material was stockpiled in the rough of holes 4 and 5 pending NYSDEC approval for spreading. The NYSDEC had not reviewed the September 29, 2011 analytical data resulting in a

maximum allowable import volume from this source site of 3,500 cubic yards. In general, the NYSDEC allowed up to 16,000 cubic yards of approved cover material (from all cover material source sites) to be stockpiled in the rough of holes 4 and 5 (8,000 cubic yards per hole) prior to satisfying the conditions associated with spreading the cover material on-site. These conditions included meeting permeability and shaping layer thickness requirements. On October 21, 2011, the NYSDEC provided NYCDPR with a conditional approval to allow NYCDPR to import cover layer material with a permeability of up to 30 inches per hour pending NYCDPR submitting for approval of an amendment to the Stormwater Pollution Prevention Plan (SWPPP). With this permeability approval, NYCDPR was notified that they could spread cover material on-site at their own risk pending shaping layer thickness compliance.

On April 18, 2012, NYCDPR requested that the IEM witness source site sampling for two 2,000 cubic yard stockpiles at this source site.

The IEM witnessed source site sampling at this source site on April 23, 2012. Four samples were collected for environmental testing and four samples were collected for agronomic testing. The IEM reviewed the environmental and infiltration testing data and confirmed that the environmental results met the Site Permit requirements for cover layer material and three of four stockpiles met the NYSDEC permeability requirements. The stockpile SP2 infiltration rate exceeded the Permit limit. Material from SP2 was not acceptable for import to the Site.

The East Coast Mines stockpiled material sampled on April 23, 2012 was formally approved by the NYSDEC on May 15, 2012. Although the environmental results passed the Site Permit criteria, one of the four stockpiles (each stockpile was 2,000 cubic yards) did not meet the Site Permit infiltration criteria. However, the NYSDEC, after a review of a NYCDPR submittal request, granted approval of the four stockpiles by allowing averaging of the four stockpile infiltration results; the average of the four stockpiles met the Site Permit criteria.

The IEM forwarded the Site environmental testing criteria per the Permit for cover layer material to the lab on July 2, 2012. On July 4, 2012, the IEM notified NYCDPR, the lab, and the source site contact of parameters that had to be re-analyzed or re-reported to coincide with the required Permit limits for potential cover layer material sampled on June 22, 2012. On July 5, 2012, the IEM reviewed the revised lab report for material sampled on June 22, 2012 and determined that the material (6,000 cubic yards) was acceptable for import to the Site. On July 10, 2012, the IEM received a lab report associated with a 10,000 cubic yard stockpile sampled on July 2, 2012. On July 10, 2012, the material was found to be acceptable for import to the Site based upon review of the submitted lab report and NYSDEC review and approval of the infiltration testing results. The NYSDEC approved the infiltration results based on the condition that the stockpiled materials were mixed at the source site prior to import to the Site.

The NYSDEC notified NYCDPR on July 18, 2012 that the proposed 1:3 ratio of mixing for cover layer material stockpiles #1, #3, and #6 at East Coast Mines source site was acceptable and subject to verification by the IEM. The IEM notified NYCDPR and the source site operator on July 18, 2012 that the submitted lab report was missing the analysis of dibenzofuran. NYCDPR and the source site operator

submitted revised lab reports on July 18, 2012. The IEM notified NYCDPR and the source site operator that the two separate stockpiles of material (8,000 cubic yards each) sampled at the East Coast Mines source site on July 11, 2012 were conditionally acceptable for import based upon proper mixing of the stockpiles. The IEM was on-site at the East Coast Mines source site to witness sampling of a new 10,000 cubic yard stockpile and the mixing of the cover soil stockpiles on July 23, 2012. The IEM notified NYCDPR and the source site operator that the sampled materials were acceptable for import to the Site on July 24, 2012.

The IEM was on-site at the East Coast Mines source site on July 31, 2012 to witness mixing of cover layer material stockpiles. On August 6, 2012, the IEM notified NYCDPR that the cover layer materials sampled on July 23, 2012 at the East Coast Mines source site, totaling 14,000 cubic yards, were acceptable for import to the Site based on review of submitted environmental and infiltration lab reports.

On August 20, 2012, the IEM notified NYCDPR that the 8,000 cubic yard stockpile of cover layer material sampled on July 31, 2012 was approved for import to the Site. The approval was based on the submitted environmental results meeting the Site Permit requirements, approval from the NYSDEC to mix and average the infiltration test results, and the mixing of the stockpiled material at the source site which was witnessed by the IEM on August 14, 2012.

On August 30, 2012, the IEM notified NYCDPR that the 12,000 cubic yards of cover layer material sampled on August 14, 2012 was approved for import to the Site. The approval was based on the submitted environmental results meeting the Site Permit requirements, approval from the NYSDEC to mix and average the infiltration test results (August 23, 2012 email), and the mixing of the stockpiled material at the source site which was witnessed by the IEM on September 4, 2012.

On September 12, 2012, the IEM notified NYCDPR that a portion of the 14,000 cubic yards of cover layer material sampled on September 4, 2012 was approved for import to the Site. Stockpile SW consisting of 6,000 cubic yards of cover layer material was approved based on the submitted environmental results meeting the Site Permit requirements and acceptable infiltration results. Stockpile DSS consisting of 8,000 cubic yards had acceptable environmental results meeting the Site Permit requirements but was not approved due to infiltration results not meeting the Permit requirements. On September 14, 2012, the IEM notified NYCDPR that Stockpile DSS consisting of 8,000 cubic yards of cover layer material was approved for import to the Site since the IEM witnessed thorough mixing of the stockpiled material at the source site on the morning of September 14, 2012.

On September 20, 2012, the IEM notified NYCDPR that a portion of the 14,000 cubic yards of cover layer material sampled on September 14, 2012 was approved for import to the Site. Stockpile FFS consisting of 6,000 cubic yards of cover layer material was approved was based on the submitted environmental results meeting the Site Permit requirements and acceptable infiltration results. Stockpile NW consisting of 8,000 cubic yards had acceptable environmental results meeting the Site Permit requirements but was not approved due to infiltration results not meeting the Permit requirements. On September 21, 2012, the IEM notified NYCDPR that Stockpile NW consisting of 8,000 cubic yards of cover layer material was

approved for import to the Site since the IEM witnessed thorough mixing of the stockpiled material at the source site on the morning of September 21, 2012.

On September 28, 2012, the IEM notified NYCDPR that a portion of the 12,000 cubic yards of cover layer material sampled on September 21, 2012 was approved for import to the Site. Stockpile SW consisting of 2,000 cubic yards of cover layer material was approved based on the submitted environmental results meeting the Site Permit requirements and acceptable infiltration results. Stockpile DSS consisting of 10,000 cubic yards had acceptable environmental results meeting the Site Permit requirements but was not approved due to infiltration results not meeting the Permit requirements. On October 2, 2012, the IEM notified NYCDPR that Stockpile DSS consisting of 10,000 cubic yards of cover layer material was approved for import to the Site since the IEM witnessed thorough mixing of the stockpiled material at the source site on the morning of October 2, 2012.

On October 8, 2012, the IEM notified NYCDPR that all of the 16,000 cubic yards of cover layer material sampled on October 2, 2012 was approved for import to the Site. Stockpile SW consisting of 6,000 cubic yards of cover layer material was approved based on the submitted environmental results meeting the Site Permit requirements and acceptable infiltration results. Stockpile NW consisting of 10,000 cubic yards which had acceptable environmental results meeting the Site Permit requirements was approved based on the fact that the average of the infiltration test results met the Permit requirements and the IEM witnessed thorough mixing of the stockpiled material at the source site on the morning of October 9, 2012.

On October 18, 2012, the IEM notified NYCDPR that all of the 16,000 cubic yards of cover layer material sampled on October 9, 2012 was approved for import to the Site. The stockpiled cover layer material was approved was based on the submitted environmental results meeting the Site Permit requirements and acceptable infiltration results.

On November 7, 2012, the IEM notified NYCDPR that all of the 16,000 cubic yards of cover layer material sampled on October 24, 2012 was approved for import to the Site. Stockpile SW consisting of 6,000 cubic yards of cover layer material and Stockpile NW consisting of 10,000 cubic yards of cover layer material were approved based on the submitted environmental results meeting the Site Permit requirements and acceptable infiltration results.

On May 8, 2013, the IEM inspected previously tested and approved cover layer material (sampled October 24, 2012) at the source site and notified NYCDPR that import may resume for the previously approved material.

On July 25, 2013, the IEM notified NYCDPR that the latest round of East Coast Mines cover layer material (approximately 8,000 cubic yards) was acceptable for import to the Site. The submitted infiltration and environmental lab reports for sampling witnessed by the IEM on July 19, 2013 met the Site Permit requirements.

Approximately 167,007.05 cubic yards of cover layer material were imported to the Site from this source site.

3.1.2.4 Amboy Aggregates (415 Main Street, South Amboy, NJ)

The IEM reviewed the infiltration and environmental lab reports for cover layer material (2,000 cubic yards) sampled on August 27, 2012. The IEM notified NYCDPR on September 6, 2012 that the environmental results were acceptable per the Site Permit requirements, however the infiltration results did not pass the Permit requirements for cover layer material. The IEM's involvement on this source site was limited to witnessing the collection of the soil samples for testing and a review of the lab results.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.2.5 Long Island Compost/Great Gardens (445 Horseblock Road, Yaphank, NY)

On November 16, 2012, the IEM notified NYCDPR and LAWS that the Long Island Compost/Great Gardens source site (DEC Permit Number: 1-4722-03647/00001) was conditionally approved to allow for the import of topsoil to be used as cover layer material pending IEM visual inspection and witnessing the collection of soil samples of the proposed material at the source site.

On December 7, 2012, the IEM notified NYCDPR that the 2,000 cubic yard stockpile of cover layer material sampled at this source site on November 30, 2012 was acceptable for import to the Site as both environmental lab results and visual inspection met the Site Permit requirements. The NYSDEC waived infiltration testing requirements for this material as long as the material was used solely in tree pits.

The IEM witnessed sample collection for a 2,000 cubic yard stockpile of proposed cover layer material at this source site on March 20, 2013. On March 28, 2013, the IEM notified NYCDPR and LAWS that the submitted sample results did not pass the Site Permit criteria due to the fact that Benzo(a)pyrene exceeded the permit limit of .061 mg/kg in sample 49369 with a value of .097 mg/kg and Chromium exceeded the permit limit of 19.4 mg/kg in sample 49369 with a value of 22.9 mg/kg. The material was not approved for import to the Site as cover layer material at that time.

On April 9, 2013, the IEM notified NYCDPR and LAWS that the submitted sample results for a 2,000 cubic yard stockpile of proposed cover layer material at this source site (sampled on March 20, 2013) did not pass the Site Permit criteria due to the fact that Benzo(a)pyrene exceeded the permit limit of .061 mg/kg in sample 49369 with a value of .097 mg/kg. The revised lab report dated April 8, 2013 addressed concerns with the analysis of trivalent and hexavalent chromium (the previous lab report had only analyzed total chromium). On April 10, 2013, the NYSDEC notified NYCDPR that after further review of the revised lab results, the 2,000 cubic yards of material was acceptable for import to the Site.

On April 29, 2013, the IEM notified NYCDPR and LAWS that the submitted sample results for a 2,000 cubic yard stockpile of proposed cover layer material at this source site (sampled on April 19, 2013) did not pass the Site Permit criteria due to the fact that Benzo(a)pyrene exceeded the permit limit of 0.061 mg/kg with

a value of 0.140 mg/kg and Dibenzo(a,h)anthracene exceeded the permit limit of 0.014 mg/kg with a value of 0.020 mg/kg. On May 1, 2013, NYCDPR requested approval to use the material as backfill for the tree pits only. On May 1, 2013, the NYSDEC notified NYCDPR that the 2,000 cubic yards of material was acceptable for import to the Site.

On May 14, 2013, the IEM notified NYCDPR and Triton that the submitted environmental and infiltration sample results for 2,000 cubic yards of proposed cover layer material at this source site (witnessed by the IEM and sampled on April 30, 2013) was acceptable for import to the Site as both environmental and infiltration results met the Site Permit requirements.

On October 28, 2013, the IEM notified NYCDPR that that a review was completed for a 2,000 cubic yard stockpile of proposed cover layer material from this source site. The proposed material was visually inspected and sampling was witnessed by the IEM on October 16, 2013. Although the material passed the IEM's physical/visual inspections and did not yield any PID detections, the sampled material did not comply with Site Permit criteria for the following parameters: Benzo(a)pyrene exceeded the permit limit of 0.061 mg/kg in sample GBF65277 with a value of 0.150 mg/kg; Dibenzo(a,h)anthracene exceeded the permit limit of 0.014 mg/kg in sample GBF65277with a value of 0.024 mg/kg; and Dieldrin exceeded the permit limit of 0.044 mg/kg in sample GBF65277 with a value of 0.100 mg/kg. On October 29, 2013, NYCDPR submitted additional documentation to the NYSDEC for evaluation. Based on review of submitted information, the NYSDEC notified NYCDPR on October 29, 2013 that this material may be imported to Site and used solely for backfilling the parking lot curb planters and shall not be used as capping material.

On March 11, 2014, the IEM notified LAWS and NYCDPR that the 2,000 cubic yard stockpile of cover layer material originally sampled and witnessed on October 16, 2013 was acceptable for importation. On March 11, 2014, the IEM completed a site visit and performed a visual inspection of the existing stockpile at the source site.

Approximately 8,434.85 cubic yards of cover layer material were imported to the Site from this source site.

3.2 On-Site Fill Importation Inspections

3.2.1 Process

As required under Special Condition 24 of the 2014 Permit, all fill importation was inspected at the Site by the IEM. Fill material volume (truck volume) was measured and recorded for each delivery of fill material as it arrived on-site by NYCDPR's appointed representative. The fill material was then inspected by the IEM at the observation platform near the entrance to the Site. At this time, the fill material was visually and chemically inspected. The visual inspection included observations of the material, disturbing the material with a shovel, and close-up observations of the material retrieved by shovel while still in the truck or trailer. Chemical inspection of the fill material was executed using a calibrated PID. If the fill material failed to meet the Permit requirements for reasons such as a PID reading above ambient air, the presence of asphalt or some other unauthorized debris, etc., the load was rejected immediately prior to

dumping. If the material was rejected, the truck was not allowed to dump on-site and was directed to exit the site immediately.

If the fill material passed the initial inspection at the IEM observation platform, either it was allowed to dump directly at a work location for immediate use as shaping layer material or cover layer material or it was transported to, and dumped at, a stockpile location. At the dump location, the IEM screened the fill material visually and with a PID for a second time prior to spreading if dumped at an active work location. If the fill material did not meet the permit requirements at the dump location, it was immediately rejected, loaded back onto the same truck, and transported off-site.

After the second round of inspection and after the material was dumped on-site and accepted for use, the IEM recorded dump and stockpile locations utilizing handheld GPS units. The data was uploaded to a web-based GIS system intermittently throughout the process in order to provide real-time data to authorize users including the NYSDEC and NYCDPR and to generate figures used to track the dump locations in the biweekly FMRs. The web-based GIS database was maintained by the IEM. Figure 2, included in each FMR beginning with FMR 246, identifies where fill materials were being used and dumped on the Site during construction activities.

A flow chart detailing the on-site fill importation inspection process is included as Appendix 21.

3.2.2 Trucking Manifests

Trucking manifests were utilized for all imported shaping layer and cover layer materials. A 5-ply manifest form was completed for each load of material to track each load of material from origination at the source site to destination at the Site. The manifest contained information including but not limited to a manifest number, the source site name and address, the truck driver's name, truck and trailer license plate numbers, as well as the time of departure from the source site and arrival time at the Site. See fill import manifests included in Appendix 13.

Note that manifests for material approved for importation prior to November 2008 cannot be retrieved and are not included in Appendix 13. The manifest information was stored in a NYCDPR document repository that was damaged by flooding and the files have been lost. However, the FMRs for the time period prior to 2008 comment on the nature of this work.

3.2.3 Rejected Trucks & Materials (JFK Consent Order Material & Misc. Debris)

Generally, materials were either rejected upon initial inspection at the IEM observation platform or rejected upon dumping at the work area or stockpile location. The most common reasons for rejection were the presence of asphalt or other unauthorized debris mixed with the material or elevated PID readings.

Details for all rejected trucks were included in each bi-weekly Fill Management Report (FMR). Trucking manifests associated with rejected truckloads were marked with the word "REJECTED" by the IEM. Trucking manifests for rejected trucks are included as Appendix 13.

During 2010, fill material from one particular source at JFK Airport was brought on-site and placed in seven different stockpiles ultimately being used as fill material beneath the clubhouse and maintenance building parking lots. The material was believed to be in conformance with permit conditions. However, the material was found to be in violation of 2005 Permit Special Conditions 1, 9, and 16, during NYSDEC and IEM inspections. On January 10, 2011, NYCDPR signed an Administrative Order on Consent (Consent Order), Case No. R2-20100521-172, related to this fill material. The Consent Order is included as Appendix I, of the 2013 Engineering Report included in Appendix 20.

3.3 Fill Tracking

Special Condition 9 of the 2014 Permit required quantification of all imported fill material. Fill importation was continuously tracked by the IEM. To account for the difference in truck volume and in-place volume, the IEM applied a 41.7% correction factor for shaping layer material and an 18% correction factor for cover layer material as set forth in the Permit. Additional details and methodology related to calculation of the shaping layer correction factor is included in a December 11, 2009 letter included in Appendix 19.

The cover layer material correction factor was separated from the shaping layer correction factor and revised in accordance with a NYCDPR submittal dated April 1, 2013 and revised April 8, 2013. The methodology for calculating the cover layer material correction factor is included in the revised April 8, 2013 submittal, which is included in Appendix 19.

As shaping layer and cover layer fill materials were imported to the Site, the IEM tracked volumes for each source site with respect to authorized volume based on approved sample analysis results for each source at the required sampling frequency (i.e. per 10,000 cubic yards for shaping layer material and per 2,000 cubic yards for cover layer material as included in Special Condition 14 of the 2014 Permit). The volume of imported material was tracked real-time as the IEM uploaded source, truck, and fill material volume information as each load of material was dumped on the Site. The fill tracking process, as part of the overall environmental monitoring and database management web-GIS system developed by the IEM and utilized beginning on October 25, 2010, was awarded a New York Chapter American Council of Engineering Companies (ACEC) Platinum Award in April of 2013. The web-GIS system allowed the IEM to upload and store data related to each load of fill material entering the Site, map its location, and allow real-time access to the data and mapping for NYCDPR, NYSDEC, the Contractor, and the general public.

At various times throughout fill importation activities, source site, shaping layer, or cover layer material totals were modified for various reasons. Additional details related to corrections and modifications can be found in Section 4 of corresponding Fill Management Reports, notably FMRs 213, 266, 277, 290, and 305.

Effective with FMR 290 and retroactive to October 25, 2010 (i.e. Woodard & Curran's first day as the IEM on-site at the Site), shaping layer and cover layer material volumes were tracked based upon the calculated volumes within each truck, as calculated by TRC and provided to the IEM (i.e. Tables 4-2 and 4-3 of each FMR). This provided for the most accurate and consistent approach to monitoring the volume

of imported fill materials. Prior to receipt of the calculated volumes from TRC, the IEM tracked estimated volumes as trucks dumped on the Site.

The Fill Delivery Summary Table included in Appendix 11 contains information related to the total amount of shaping layer and cover layer materials imported to the Site. The total volume of shaping layer material imported to the Site since October 18, 2002 was 2,681,338.15 cubic yards (truck volume) or approximately 93.4% of the authorized amount under the Permit. The total volume of cover layer material imported to the Site since October 18, 2002 was 480,959.49 cubic yards (truck volume) or 100.1% of the authorized amount under the Permit.

On April, 17, 2014, the NYSDEC confirmed via email that a minor exceedance of the cover layer in-place volume as included in the Permit is acceptable considering no additional shaping material will need to be imported and that the exceedance could be addressed via as-built drawings and in the final construction certification report. A copy of the email is included in Appendix 19.

The Bronx-Whitestone Bridge bound the "Site" to the west, Balcom, Miles, and Emerson Avenues to the east, Schley Avenue and St. Raymond's Cemetery to the north, and the East River to the south. The project was originally managed under Ferry Point Partners, LLC (FPP).
On July 17, 2000 the New York State Department of Environmental Conservation (NYSDEC) issued Part 360, Solid Waste Management Permit No. 2-6006-00014-000110 jointly to the New York City Department of Parks and Recreation (NYCDPR) and FPP to allow a total of 1,000,000 cubic yards of fill to be imported and placed on the Site. Importation began in August 2000.

On October 18, 2002 the NYSDEC issued Part 360, Solid Waste Management Permit No. 2-6006-00014-000113 (2002 Permit) to allow a total of 1,522,300 cubic yards of fill to be imported and placed on the Site. The fill material was to consist of approximately 1,272,300 cubic yards of select exempt construction and demolition debris for the shaping layer, and approximately 250,000 cubic yards of uncontaminated soil for the cover layer. The 2002 Permit also stated that, "approximately 415,000 cubic yards of fill was deposited on the Site prior to the effective date of the permit and the projection for in-place fill material to complete the project was 1,107,300 cubic yards, consisting of approximately 857,300 cubic yards (in-place volume) of select exempt construction debris for the shaping layer and approximately 250,000 cubic yards (in-place volume) of uncontaminated soil for the cover layer.

In 2003, it was determined that the tournament quality and signature status of the course could be significantly improved by making the facility a "links" style course. The changes from the 2002 Permit include:

- Increasing the support mounding between golf holes and grading the course in a links style.
- Re-routing of holes 11, 12 and 13 to reverse their direction in order to improve player circulation and playing time.
- Moving Hole 9 to the west of the golf driving range in order to improve

the safety zone of the driving range and remove the need for high netting.

- Realigning the centerlines of holes: 10, 16, 17 and 18 to improve the strategic layout and visual experience of the golf course.
- Lowering the elevations of tee 4 and 6. This will eliminate the retaining wall proposed at the northeast comer of the Site.
- Adding a golf training area at the north end of the driving range. This required shifting the centerline of Hole 8 slightly north and increasing the support mounding around this area to buffer the adjacent holes.
- Increasing the mounding adjacent to the TBTA toll plaza in order to block noise and adjacent traffic from view.
- Shifting the Site roadway along the east side of the bridge to accommodate a TBTA easement that extends 25 feet east of the bridge. This required changes to the parking lot at the clubhouse and the location of detention/water quality basin, and waterfront park.
- Eliminating the Boathouse Grill restaurant in the Waterfront Park. A restaurant will now be located within the banquet facility. Parking spaces for the banquet facility were increased to accommodate the restaurant. A restaurant may be constructed within the waterfront park in a future phase, based on economic demands.
- Modifying the parking lot for the Waterfront Park. The 120 parking' spaces for the Waterfront Park will be located near the Whitestone Bridge approach structure.

These proposed changes to the golf course would have increased the total in-place fill volume for the project to 2,370,000 cubic yards to shape the course in a links style.

The quantification of the imported fill material was to be continuously tracked by both truck volume and periodic topographic surveys of in-place volumes. Initially it was assumed that truck volume would be reduced by 25% when compacted into place, but a new correction factor was to be calculated. On November 1, 2004, the NYSDEC approved a revised truck reduction factor of 42.4%, which was based upon an October 10, 2003 30% aerial topographic survey, and On December 7, 2004, the NYSDEC approved a revised truck reduction factor of 41%, which was based upon a July 17, 2004 60% aerial topographic survey. These recalculations were performed by dividing the actual in-place volume by the total cubic yards of truck volume delivered to the site as of the date of the survey as per the “2002 Permit

TRC Raymond Keyes Associates, A Division of TRC Engineers, Inc. prepared an, “Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY – Engineering Report; Dated May 31, 2005; Revised June 30, 2005” which comprised of Volume #1, Volume #2 and a twenty six (26) sheet drawing set entitled, “Ferry Point Park Public Recreational Facility Bulk Earthwork, Bronx, New York, Supplement No. 2” (2005 Report) . The 2005 Report represented the following scope of work:

- An eighteen (18) hole golf course with practice area.
- Maintenance Area in the northwest corner of the Site.
- Clubhouse Parking Lot in the southwest portion of the Site.
- Banquet Facility in the southwest portion of the site (along Emerson Avenue)
- Community Park
- Waterfront Park with parking lot.
- Drawing G-3 and G-4 of "Ferry Point Park Public Recreational Facility Bulk Earthwork, Bronx, New York, Supplement No. 2", showed the deviations in grading between the plans approved on 10/18/02 with the proposed plan.

On November 18, 2005 the NYSDEC issued Part 360, Solid Waste Management Permit No. 2-6006-00014-000113 ("2005 Permit") authorizing the importation of a total of 2,370,000 cubic yards of in-place fill material to the Site. The fill material was to consist of approximately 2,120,000 cubic yards of select exempt construction and demolition debris for the shaping layer, and approximately 250,000 cubic yards of uncontaminated soil for the cover layer. The truck reduction factor was 41% and could be further modified.

In 2007, TRC Engineers, Inc. ("TRC") was awarded a one (1) year contract to provide "Civil, Environmental and Construction Services for Compliance with DEC permit Related to the Construction of a Golf Course at Ferry Point Park". The order to work date for that contract was October 25, 2007. The scheduled completion date was October 23, 2008. The contract was extended an additional year to October 24, 2009. On October 26, 2009, "TRC" issued a "Year 2 End Project Summary" and estimated that approximately 202,000 total cubic yards of material was imported to the Site by October 22, 2007.

On October 26, 2007, the NYCDPR and FPP terminated the license agreement to develop, construct and operate the Project at the site and on February 29, 2008 FPP submitted an application to transfer the "2005 Permit" solely to the NYCDPR. On August 12, 2008, the NYSDEC notified the NYCDPR and FPP that the "2005 Permit" had been transferred to the NYCDPR.

The order to work date for construction of the Community Park was August 11, 2008. Fill importation continued as witnessed by the Independent Environmental Monitor (Gannett Fleming). On September 30, 2009, Thomas Balsley Associates, NYCDPR design consultant issued a revised drawing changing the limit of the Community Park. The new Site was reduced in size by moving the fence line in the south further north and by moving the fence along the proposed golf course closer to Balcom Avenue.

On January 22, 2009, in accordance with Special Condition #10 of the "2005 Permit", TRC Engineers, Inc. (TRC) submitted a revised truck reduction factor of 40.3%. On February 11, 2010, NYSDEC approved a truck reduction factor of 41.7%.

The order to work date for construction of the Ferry Point Golf Course was October 23, 2009. The golf course layout that the NYCDPR bid was modified from that which shown in the 2005 Report. One major

change was the total removal of the Banquet Facility in the southeast part of the Site. There were also changes in the placement, alignment and grading of some holes.

On February 1, 2013, the NYSDEC granted a permit modification to increase the limit of cover material to 394,000 cubic yards with the stipulation that the Agency revisit the compaction factor. It was determined that the compaction factor for the granular cover material (sand) would be 18%. This would revise the "trucked in" quantity to 480,488 cubic yards. The compaction factor for cover layer material approved per April 26, 2013 letter from NYSDEC to DPR.

On May 21, 2014, the NYSDEC issued Part 360, Solid Waste Management Permit No. 2-6006-00014-00013 (SW) & 2-6006-00014-00013 (TW) to the NYCDPR to allow a total of 2,514,000 cubic yards of material in-place volume (2,120,000 cubic yards in-place shaping material/394,000 cubic yards in-place cover material).

3.4 Total Carcinogenic Semi-Volatile Organic Compound Tracking

As identified in Special Condition 14 of the 2014 Permit, the NYSDEC Acting Regional Director letter dated October 25, 2006, authorized the import of shaping material with a total carcinogenic SVOC (tcSVOC) level of up to ten parts per million (ppm), which would not otherwise be acceptable, provided the tcSVOC weighted average of all imported material is equal to or less than 3 ppm at the end of each quarter. The tcSVOC weighted average is defined as the sum of the products of the material volume and the material tcSVOC, for each material source, divided by the total volume of the material imported. The weighted average was calculated over the course of construction and the final weighted average for shaping layer and cover layer materials imported to the Site was 0.70 ppm, less than the 3 ppm maximum. The total carcinogenic SVOC weighted average table and computations are included in Appendix 12 for materials imported to the Site after November 18, 2005.

SVOCs were not sampled for at the East Side Access and 2nd Avenue (94th Street) source sites due to the source being undisturbed, virgin rock material generated from subway tunnel boring. NYSDEC email correspondence dated April 15, 2011 stated that the IEM should apply one-half of the method detection limit (MDL) from the latest lab report sampled at that time for materials originating from those two source sites.

4 Construction

4.1 General Construction

4.1.1 Community Park

Construction of the Community Park consisted with capping the 11 acre site, installing baseball fields, a basketball court, walkways, a comfort station, and a landscaped stormwater retention area. Construction started on August 11, 2008. As of December 31, 2011, the stormwater retention pond, passive landfill gas (LFG) vents, and recreation facilities were considered complete. The Order to Work date for the comfort

station was March 19, 2014. The original scheduled completion date was September 15, 2014. The anticipated completion date is currently the Fall of 2015.

4.1.2 Golf Course

Generally, construction for the Golf Course was completed from the northeast to the southwest. The sequence of construction started by grading, rough shaping and compacting each hole, installing major drainage lines and inlet drains, installing irrigation lines and fine shaping the holes, installing branch drainage lines, constructing the greens and tees, installing demarcation material, grading cover material, fine grading cover material, and final stabilization by hydro-seeding. Each hole was constructed individually and then turned over to Trump, who is contracted with NYCDPR to maintain and operate the grounds and golf course, for care and maintenance during the grown-in period and prior to course operations.

LAWS completed construction work, including punch list items associated with their construction contract, and demobilized from the site in July 2014. Trump has and continues to perform various earth disturbance related work on the Site, in addition to standard maintenance of the Site. All permit related activity, including earthwork, general construction, and fill deliveries have been coordinated with the IEM, and the IEM has witnessed the work activity and documented inspection observations in the Daily Observation Reports. Specifically, IEM oversight related to Trump's on-site activity includes, but is not limited to, the replacement and relocation of trees, construction of a clock tower and associated subsurface concrete footing, excavation of trenches and installation of utilities to support various on-site facilities including the temporary clubhouse, installation of a cart barn, re-grading of an existing shaping and cover layer earthen berm and subsequent installation of concrete block letters at the surface, and installation of asphalt. For a detailed description of Trump's work activities requiring IEM oversight subject to the Permit conditions, refer to the Daily Observation Reports located in Appendix 5 beginning on June 19, 2014.

4.1.3 Waterfront Park

Special Condition 37 of the 2014 Permit requires that NYCDPR submit a revised design for the Waterfront Park and provides NYCDPR the flexibility to remove the Waterfront Park from the NYSDEC Part 360 Permit and permit the project under a separate NYSDEC tidal wetlands permit. The Waterfront Park is currently in the process of being conceptually scaled back in magnitude due to the impacts of Hurricanes Irene and Sandy, and design plans are being value engineered and developed. NYCDPR intends to submit plans to the NYSDEC upon completion of an approved design, and handling the construction via a separate NYSDEC tidal wetlands permit. Any SEQR related documents will be updated accordingly. The final end use of the Waterfront Park is anticipated to be publically accessible and consists of a passive recreational feature. NYCDPR will not be performing post-construction monitoring in this area of the Site until construction is completed and approved, and will restrict public access until such time.

4.2 Environmental Controls/Construction

4.2.1 Wells (Landfill gas, groundwater and water balance analysis)

NYSDEC requested NYCDPR on August 6, 2010 to demonstrate that soil being used for final cover material (not specifically the uppermost layer) would have a sufficiently low coefficient of permeability and percentage of organic material to minimize infiltration of water into the lower layer of fill material. These comments were submitted as additional comments to the November 25, 2009 permit application submittal.

NYCDPR performed a site-wide water balance evaluation to predict post-construction infiltration rates. EPA's Hydrologic Evaluation of Landfill Performance (HELP) model was used for this evaluation. The results were presented to NYSDEC on May 13, 2011 as well as incorporated in Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East, Bronx New York October 15, 2013. The model used criteria including a typical one-foot thick soil landfill cover with the proposed soil cover material as designed for the facility. The model also accounted for impermeable areas of the site, irrigation of the golf course, drainage system stormwater capture and the lining of ponds.

The soil cover permeability of 14 inches per hour was used for the overall site model. Using this infiltration rate the overall volume of water penetrating the site would be lowered by approximately 9,700 gallons per day. A subsequent water balance analysis was submitted to NYSDEC on August 10, 2011 presenting infiltration rates with a soil permeability of 30 inches per hour that also lowered the overall volume of water infiltrating the site following completion of construction. Discussion and request for confirmation that the site drainage was adequate for a 30 inch per hour permeability took place and the final maximum permeability of 30 inches per hour was approved by NYSDEC for cover material. Cover material imported to the site was tested subsequent to this approval to insure it was able to meet the goal for material permeability. More specifically, testing was combined from individual stockpiles and sources and the average from those was used to determine acceptability of material. Individual variability in sample results was expected because loading, unloading, stockpiling and spreading over the site was recognized as providing a homogeneous layer over the site. Samples were collected at a frequency of one per 2,000 cubic yards moving forward from January 26, 2012 until importation of material was completed.

Additional impacts on water balance came from lined irrigation and retention ponds. There is one large irrigation pond located on the course and several small retention ponds located throughout the open course. The irrigation pond's purpose is to collect storm runoff during storm events and stor it to be utilized for irrigation of the upper cover layer during non-storm periods. The grading and drainage for the stormwater collection and retention were provided in the November 25, 2009 permit application. NYSDEC requested that infiltration beyond the upper layer of cover material be minimized to the maximum extent possible on August 6, 2010 and this included lining each of the five on-site retention ponds to limit infiltration as much as could be done.

The subsequent changes to cover permeability and the lining of irrigation and retention ponds required a review of the Stormwater Pollution Prevention Plan (SWPPP) in order to confirm the additional flow would

not exceed the design criteria for the storm system. The engineering review conducted at that time (October 18, 2011) confirmed the stormwater system design was adequate to carry this flow.

NYSDEC granted a conditional approval for the Ferry Point Site to accept a 30 in. percolation rate per hour cover material on October 21, 2011. The conditional approval was based on a request for DPR to "submit for approval an amendment to the Stormwater Pollution Prevention Plan (SWPPP) dated November 13, 2009, with plans and computations that reflect the partial lining of the stormwater basins." DPR provided this in a technical memorandum to NYSDEC on November 16, 2011. The memorandum presented a formal submittal of the pond liner design to NYSDEC and included excerpts of calculations from the November 13, 2009, SWPPP. An approval was provided by NYSDEC on December 2, 2011.

Municipal solid waste (MSW) filling operations ceased at the Site in the 1960s, prior to the implementation of the comprehensive environmental regulations now in place, and a formal groundwater sampling program was not required at that time. Information on groundwater quality at a former landfill site such as Ferry Point Park East can be used to help evaluate existing groundwater conditions. For the 2005 Permit application, the Site's history was reviewed and a geotechnical investigation was performed to evaluate the potential for adverse impacts on the Site's groundwater due to the placement of fill during construction of the golf course and parks.

A summary provided in the 2005 Engineering Report concluded "that the placement of fill would not have an adverse impact on pre-development groundwater conditions at the site and that the proposed golf course construction would not result in an increased flow of contamination into the river through groundwater flow." (TRC 2005a).

In their comments of June 25, 2010, NYSDEC asked DPR whether any new information was available regarding groundwater conditions at the Site, and if any new, relevant information was available, to verify the conclusions of the geotechnical portion of the 2005 Engineering Report (TRC 2005a).
Following several discussions with DPR, and because no prior sampling had been required, NYSDEC requested that DPR undertake a groundwater sampling program and develop a reference point for background water quality conditions at the Site.

To comply with this request, DPR prepared written field procedures for new well installations, well development, and groundwater sampling (see Appendix G.1).
The field procedures were submitted to, and approved by, NYSDEC prior to the start of the work effort. Prior to installation, the locations of the monitoring wells were approved by NYSDEC during a meeting held with DPR on September 22, 2011.

Landfill gas monitoring over the entire Site has incorporated various different types and configurations of monitoring points. These include perimeter and interior wells and vents that have been monitored over time on a regular frequency. Monitoring has been recorded and reported according to Special Conditions Monitoring as referenced in the March 2014 permit and results dictate continued additional monitoring when that has been necessary. This monitoring continues under the Post Closure Monitoring

requirements and in accordance with the Landfill Gas Management Plan. A total of thirty seven passive vents were installed throughout the Golf Course and Community Park on an average spacing of approximately one vent for every five acres. These vents are considered passive and allow the natural venting of subsurface gases to take place without any additional vacuum or fans. Additional active vapor removal does take place at each of the constructed buildings on the site. This includes the comfort station and maintenance shed on the Golf Course and comfort station at the Community Park. Active systems operate at both of these locations on a continual basis and vent the subsurface area beneath the associated slabs to the atmosphere. There are no structures planned for or constructed on the Waterfront Park parcel at this time.

Passive gas vents are installed throughout the golf course and are included along the perimeter within the venting trenches, within the overall golf course as individual stand-alone vents and in combined systems of interconnected piping to carry landfill gas from beneath irrigation ponds.
Landfill gas monitoring includes perimeter probes located along an approximate 250 linear ft. interval on the north, east and southern site boundaries; off-site monitoring points along Buttrick, Balcom, Schley, Miles and Emerson Avenues; a passive vent trench installed along the eastern and northern perimeters of the course with piezometers installed along the vent trench to allow for monitoring of the groundwater levels associated with the vent trenches; individual passive vents within the golf course and community park space; a passive vent system of interconnected piping serving the irrigation pond; and sub-slab depressurization systems beneath the enclosed buildings located within the golf course and community park.

In February 2012, eleven new groundwater monitoring wells were installed across the Site to obtain information on current groundwater conditions. Design documents for the groundwater monitoring wells are included in Appendix G.2 of the 2013 Engineering Report, included in Appendix 20. An initial sampling event was completed in February 2012 and included the testing activities described below.

■ Groundwater Elevation Measurements: Water depths were measured at the 11 groundwater monitoring wells. Two measurements were taken from each well within one hour each of high and low tides, starting at the shoreline and moving inland.
■ Elutriate Testing: One soil core sample per well was collected during well installation in order to perform elutriate analysis. Samples were selected from shaping material zones based on visual observation of the soil cores.
■ Groundwater Testing: Groundwater samples were collected at each of the 11 wells and shipped for laboratory analysis in accordance with the required testing as referenced in the 2002 permit.
■ Hydraulic Conductivity Testing: In situ slug testing for hydraulic conductivity was completed at each of the 11 groundwater monitoring wells.

The initial groundwater monitoring data from February 2012 was submitted to NYSDEC by email on March 28, 2012. This data is included in the report for the initial groundwater monitoring event (see Appendix G.5 of the 2013 Engineering Report, included in Appendix 20). At that time, DPR requested direction from

NYSDEC concerning procedures for future sampling events. That is, should future sample collection be modified due to the high turbidity.
(>1,000 nephelometric turbidity units [NTUs]) observed in the initial samples. A call was held with NYSDEC on May 8, 2012, to discuss the initial data and provide guidance on future monitoring (see Appendix G.3 of the 2013 Engineering Report, included in Appendix 20 for call minutes.) Also during this call, NYSDEC directed DPR to perform inorganic analyses on both filtered and unfiltered samples collected during the next sampling event. If the next round of results is found to be in expected ranges, then future sampling events will utilize only filtered samples for inorganic analyses.

NYSDEC provided DPR with requirements for future groundwater monitoring in their FPP Groundwater Characterization/Monitoring Objective, on May 8, 2012 (see Appendix G.4 of the 2013 Engineering Report, included in Appendix 20). DPR implemented the groundwater monitoring program in accordance with the schedule and monitoring parameters requested by NYSDEC.

The schedule included two additional quarterly sampling events, followed by approximately three semi-annual events (through completion of construction) and three post-construction annual sampling events. After the third annual sampling event, DPR may request to reduce the sampling frequency or cease the groundwater sampling program at the Site. Table 4-1 provides a schedule of the monitoring events that will be performed to complete this program and the parameters that will be analyzed for during each event.

Post-construction groundwater monitoring and groundwater monitoring well maintenance requirements are incorporated into the Post-Construction Custodial Care Plan for the Site (see Appendix I).

4.2.2 Liners

A single irrigation pond has been constructed at the Site. The purpose of this pond is to collect and store stormwater runoff and reuse it later for irrigation and maintenance of the golf course vegetative cover. This pond is fully lined to maximize the retention of irrigation water. The irrigation pond design documents were included in the November 25, 2009, permit application package. In addition, there are five smaller water quality ponds designed to provide active stormwater retention and limit the off-site migration of sediment. The geometry and grading (engineering design) of these ponds were also provided in the November 25, 2009, permit application package. DPR considered various methods to meet NYSDEC's request of August 6, 2010, to minimize the infiltration of water through "the lower layers of material to the maximum extent possible." Based on this consideration, DPR is implementing a recommendation contained in the November 16, 2010, memorandum (see Appendix D.1 of the 2013 Engineering Report, included in Appendix 20) to line the five on-site water quality ponds to limit water exfiltration. The pond system has been included in the overall water budget evaluation that was submitted and approved by NYSDEC in addition to the permeability of the upper imported fill material.

Supplemental drawings and specifications for the lining of these ponds are provided in Appendix D.4 of the 2013 Engineering Report, included in Appendix 20. The pond liner designs are consistent with the

previously approved geometry and grading (engineering design) presented in the November 25, 2009, permit application package.

4.2.3 Gas Venting

4.2.3.1 Active

According to the 2009 permit the site wide active landfill gas control system consistent with the proposed with the 2005 permit was withdrawn as a design modification. Active systems were installed at buildings and initially proposed for the irrigation lake.

Based on the Final Engineering report, due to the explosive nature, LFG is not allowed to accumulate within any enclosed structure at the site. Therefore active sub-slab depressurization systems (SSDS) have been installed at each of the enclosed buildings at the site. These systems have continuous explosive gas monitoring components of the design. The irrigation lake was not made active and continues as a passive system as per the September 2009 permit modification application.

The SSDS engineering drawings for the golf course facilities (maintenance building and comfort station) are provided in Appendix F.3 of the 2013 Engineering Report, included as Appendix 20. The Community Park comfort station design was provided in the November 25, 2009, permit application. The Waterfront Park comfort station has not been designed. Maintenance of the SSDS and their monitoring equipment will be performed in accordance with the operations, monitoring, and maintenance (OM&M) program for the Site's Landfill Gas management system (see Section 4.4.4). The design of any additional structures at the Site will be completed in accordance with New York City Department of Buildings requirements. The need for LFG mitigation systems for any future Site structures will be evaluated as part of their design.

4.2.3.2 Passive

The LFG management system as redesigned for the Site (since the November 25, 2009, permit application submittal) is an update of prior conceptual passive LFG designs and includes a passive system for the venting of LFG in all areas not covered by enclosed facilities. The primary goals for the design of the Site's LFG management system are to provide safe operating conditions and protect human health.

The proposed passive system is consistent with the plans presented in the 1999 EAS (AKRF 1999), the 2002 Technical Environmental Assessment (AKRF 2002), and the 2005 Engineering Reports (TRC 2005a, b) and was approved under the 2005 Part 360 Permit. It deviates from the 2009 permit renewal application prepared by TRC Engineers (TRC), which recommended an active system. An active system uses blowers or fans to extract gas through vents from the landfills subsurface, whereas a passive system uses vents without blowers or fans. Supplemental Site investigations and extraction testing performed by TRC Engineers at the Site in 2009 and 2010 were reviewed by Walsh Environmental Scientists and Engineers, LLC (Walsh) in 2010. Emissions modeling was also performed by EEEPC in 2010, as discussed in Section 4.4.1. Based on these evaluations and modeling of Site conditions, a Landfill Gas Management Plan (LFGMP) was prepared (see Appendix F.1 of the 2013 Engineering Report, included in Appendix 20). The plan concluded that a passive venting system is sufficient to achieve safe operating conditions for users and workers of the golf course and parks. A description and details of the Site's LFG management system

are presented in the LFGMP. The LFG management system as currently designed is consistent with the proposed venting system described in the 2005 Permit.

4.2.4 Vent Trench

The landfill gas perimeter trench was the primary gas-management structure installed in or about 2001. The Trench was initially proposed in the 1999 conceptual LFG control system. The purpose of the vent trench was to capture and prevent the off-site migration of LFG. The 2002 AKRF Report included installation details and certified drawings of the trench and its details.

The LFG trench was constructed along the eastern and a portion of the northern perimeter and was completed in 2001. The trench begins at the water's edge at the foot of Emerson Avenue, continues along the length of the Balcom Avenue Site boundary and continues approximately 1050 ft. in a westerly direction past the intersection of Schley and Buttrick Avenues.

The LFG passive trench is essentially a stone-filled /geotextile-wrapped envelope that begins three feet below the groundwater surface and extends upward to just below the ground surface. The upper 6 inches of the trench is dressed and finished with a layer of wood chips that allow LFG entering the trench to vent to the atmosphere. During the construction there were some areas where stability of the fill material at the water table was noted to be an issue and in these areas the trench was extended to a depth of one foot below the groundwater surface. In addition to the gravel filling of the trench to allow for a porous medium allowing LFG to move upward and escape, a continuous 4 to 6 inch diameter perforated PVC pipe was buried in the upper portion of the stone backfill. Vertical passive vents are connected to this horizontal piping to allow for future modifications should the top of the trench need a cap installed above it. The trench will collect and disperse any and all LFG that comes into it but it was primarily designed to remove methane from passing beyond the site boundary. The vent trench was specifically installed below the elevation of measured groundwater in order to maintain a constant layer of saturation within the lower part of the trench. This groundwater layer would prevent landfill gas from migrating beneath the trench and off of the site. Passive vents were also installed within the trench to allow a rapid ascent of LFG out of the trench and into the atmosphere. Concentrations of LFG that could be an issue within the trench would immediately be diffused in the atmosphere and reduced to a concentration that is not a concern.

Following the installation of the trench, methane concentrations were noted to have declined significantly, demonstrating the effectiveness in controlling LFG in the area.

Landfill gas migration is influenced by a number of factors including barometric pressure, diffusion gradients, composition and distribution of subsurface soil and fill material and groundwater. As landfill gas builds up and accumulates, it moves outward from the points or areas /zones where it is generated, spreading into other areas. Landfill gas migrating vertically will reach the surface and diffuse when it mixes with ambient atmospheric air. The other main concern for migration from the landfill was horizontal migration from the landfill to areas off-site. This horizontal migration can be controlled and to a significant extent can be eliminated through the use of LFG trenches. The LFG trench configuration can prevent accumulated gas from passing beyond the site because it creates an area allowing for diffusion and mixing of LFG with ambient air. The overall trench is constructed and filled with material of a higher

permeability than the surrounding soil or fill and typically offers a more direct connection to the open atmosphere. The base of the trench is extended into the water table which performs two functions that both increase the opportunity for LFG to be removed and thus prevent it from migrating offsite. The first offers a more open contact of the shallow groundwater surface to ambient air allowing dissolved concentrations to be volatilized out of the water column into the air and the second prevents LFG that exits from the landfill soil from travelling beneath the trench out beyond the site.

Approximately 5,350 feet of LFG passive vent trench was constructed along the site boundary between May 2001 and December 2001.

Routine inspections of the LFG passive vent trench included the following observations, depth of wood chip layer over geotextile, excessive fine grained materials, vegetation, erosion along the vent trench and any other condition that may have a potential to compromise the ability of the LFG passive vent trench to intercept and transmit LFG to the atmosphere. Refer to the non-conformance table. Monitoring includes routine bi-weekly observations and inspection of the following specific components of the trench:

- Observation of the covering wood chips to insure they extend to and are level with the ground surface and are free of excessive fine grained materials that would restrict the flow of LFG from the trench once it is intercepted.
- Observation of the vertical hard piping risers to insure they do not show signs of cracking bends or breaks;
- Observation of the vertical riser piping to insure they remain vertical and anchored as they were installed;
- Observation of the vertical vents and openings to insure they remain open.

Continued monitoring of the trench is described in Special Conditions 30 of the modified Permit with NYSDEC. This includes monitoring of groundwater levels in the adjacent monitoring wells. If the groundwater is noted below the bottom of the trench, the following actions are initiated:

1. Evaluate the methane concentrations in nearby perimeter methane monitoring wells and semi-permanent monitoring points. If the methane concentrations measured that day are below the site-specific action level of 25% LEL, continue the normal (bi-weekly) methane monitoring frequency and increase the groundwater level measurements at the location of concern to bi-weekly.
2. If the groundwater level measured at the initial bi-weekly monitoring event is above the base of the vent trench, then defer back to the routine monthly piezometer monitoring frequency.
3. If the groundwater level remains below the trench bottom for the first additional bi-weekly monitoring event, but nearby perimeter methane monitoring wells and semi-permanent monitoring points are below the site-specific methane action level of 25% LEL, continue groundwater level and methane monitoring at a bi-weekly frequency until such time as the

groundwater level is above the base of the trench. Then defer back to the routine monthly piezometer monitoring frequency.

4. If the groundwater level remains below trench bottom for the first additional bi-weekly monitoring event, and nearby perimeter methane monitoring wells and semi-permanent monitoring points are at or above the site-specific methane action level of 25% LEL, then continue monitoring the groundwater levels and methane concentrations for the second bi-weekly event.
5. If the groundwater level remains at or below the trench bottom for the second bi-weekly monitoring event, and the nearby perimeter monitoring wells and semi-permanent monitoring points remain at or above the site-specific methane action level of 25% LEL, further recommendations will be made to NYSDEC.

4.2.5 Landfill Cap

In accordance with provisions of the Permit dated May 21, 2014 the landfill was capped with minimum of one foot of shaping layer material over the landfill and one foot of cover layer material over top of the shaping layer material. In areas where there was less than 4 feet of shaping material over the waste layer, a layer of demarcation material was installed. See Section 4.4 for additional information related to the landfill cap construction.

The permit authorized importation of 2,514,000 cubic yards of material to the Site for overall capping of the waste material. This consisted of approximately 2,120,000 cubic yards of select exempt construction and demolition (C&D) debris for the shaping layer, and approximately 394,000 cubic yards of cover material. Specific restrictions were incorporated into the material and those restrictions were maintained and are described under the importation section of this Report. Final surface components of the cap including; greens, contour, heights and top soil) were incorporated into the site under the Nicklaus Design Technical Specification of the June 30, 2005 Engineering Report. This included:

- Greens-Mix imported to the site and tested as per the material testing requirements. Fertilizer and soil amendments applied on the greens after spreading to construction specifications and then grassed as per the specifications.
- Topsoil-Imported to be consistent with native topsoil, and free of rock and debris greater than three quarters of an inch as per Exhibit C of the Engineering Report. Soil amendments, fertilizer applications and seed were added to tee, fairway and rough areas as per Exhibit C of the June 30, 2005 Engineering Report.

4.2.6 Environmental Controls On-Site Structures

Due to its potentially explosive nature, LFG shall not be allowed to accumulate within any enclosed structure at the Site. To protect the occupants, an under slab vent system for each enclosed building shall be installed and continuously operated. The LFGMP (see Appendix F.1 of the 2013 Engineering Report, included in Appendix 20) describes the active sub-slab depressurization systems (SSDS) that have been designed for the under-slab of each enclosed building at the Site. These systems will have continuous explosive gas monitoring with local and remote alarm capabilities. The SSDS engineering drawings for the

golf course facilities (maintenance building and comfort station) are provided in Appendix F.3 of the 2013 Engineering Report, included in Appendix 20. The Community Park comfort station design was provided in the November 25, 2009, permit application.
Maintenance of the SSDS and their monitoring equipment will be performed in accordance with the operations, monitoring, and maintenance (OM&M) program for the Site's Landfill Gas management system (see Section 4.4.4). The design of any additional structures at the Site will be completed in accordance with New York City Department of Buildings requirements. The need for LFG mitigation systems for any future Site structures will be evaluated as part of their design

Low-permeability soil/bentonite collars ("soil collars") will be installed for all utility trenches that contain permeable bedding in order to prevent the migration of LFG into enclosed buildings at the Site. The soil collars will be installed around the water and sewer pipelines, within the trenches at the subsurface location where the pipeline crosses above the building foundation (the building line). Each soil collar will be passively vented as described in the LFGMP (see Appendix F.1 of the 2013 Engineering Report, included in Appendix 20) and as shown on the engineering design drawings in Appendix F.2 of the 2013 Engineering Report, included in Appendix 20. Similarly, conduit seals will be used for electrical conduits that are installed in trenches using permeable bedding materials. The conduit seals will be installed at the building lines. Other utility LFG controls include the under slab passive venting for the aboveground double-check valve (DCV) enclosure. The DCV enclosure is for the potable water supply line as it enters the golf course site. Detailed design drawings for the venting the DCV enclosures are provided in Appendix F.4 of the 2013 Engineering Report, included in Appendix 20. The need for LFG venting for any future Site subsurface vaults will be evaluated as part of their design.

4.3 Municipal Solid Waste (MSW)

Municipal solid waste ("MSW") was generated throughout site development and excavation activities. MSW material was not utilized as fill material on-site after it was encountered and excavated during construction activities with the exception of MSW excavated and reused on-site in accordance with an Order On Consent issued by the NYSDEC and fully executed as of January 4, 2004 (Order On Consent No. R2-20030724-187). A copy of the executed consent order is included in Appendix 19. In accordance with Special Condition 8 of the 2014 Permit, upon encountering MSW during site development, the material was transported and properly secured into segregated stockpile locations prior to off-site disposal. MSW material consisted of metal, glass, tires, plastics, rubber, paper, fabrics, and miscellaneous debris not suitable for the shaping layer. Refer to Section 4.5 of this report to review further details regarding the minimum fill cover over top of the MSW.

Prior to stockpiling any excavated MSW, the existing ground surface was covered with an impermeable plastic membrane. The stockpile was then encircled with silt fence and the stockpile was covered with an impermeable plastic that was secured with sand bags after the MSW was stockpiled and prior to off-site disposal.

Waste characterization sampling was performed prior to off-site removal as required prior to acceptance by each solid waste facility. Prior to disposal, waste samples were collected from each of the stockpiles

and analyzed to determine if the material was hazardous and to determine a suitable NYSDEC facility for disposal by way of a permitted hauler. A January 22, 2010 letter approving Seneca Meadows Landfill as a disposal facility is included in Appendix 19.

Residual MSW excavated by Trump associated with utility and drilling work at the Golf Course stockpiled in the adjacent Waterfront Park have been removed.

4.3.1 Manifests

Manifests were collected for each load of MSW generated and disposed of off-site. Manifests were completed for each load of MSW prior to leaving the Site. Completed manifests contained the following information: driver signatures and appropriate transporter information, facility designation including the address for the facility that was receiving the material, a description of the material being transported, the site generator's mailing and site address, and a total quantity of the material leaving the Site. The weight of MSW was determined by weighing the material (in tons) during the loading process. The MSW was loaded with a pay loader with a scale attached to the bucket. A receipt for the weight of each load was printed and was presented to NYCDPR with the manifest for review. NYCDPR and/or their designated representative signed the manifests as the generator, and then the manifests were then presented to the IEM for final verification.

Copies of the MSW disposal manifests are included in Appendix 14.

Note that MSW manifests accounting for material prior to October 25, 2010 (i.e. Woodard & Curran's first day on-site as the IEM), cannot be retrieved and are not included in the appendix. The information was stored in a NYCDPR document repository that was damaged and the files have been lost. However, the FMRs prior to October 25, 2010 comment on the nature of this work.

4.4 Earthwork/Fill Placement

Earthwork and fill placement for this Project were performed in accordance with the Permit. A response received from NYSDEC on July 28, 2009 (included in Appendix C.2 of the 2013 Engineering Report, included in Appendix 20), provided additional clarification regarding what are considered active and passive recreational areas. As per this letter:

Active Recreation – "…all other areas that are not covered with a building or other impermeable cover system… are deemed active recreational areas."

Passive Recreation – "…the golf course is deemed a "passive recreational area" and is required to have a one foot thick cover layer over a demarcation layer."

Following this directive, NYCDPR requested clarification from NYSDEC regarding the demarcation layer requirement for the extent of the Golf Course. The request for clarification was based on the need for further specificity regarding the use of a demarcation layer on the Golf Course.

In response, NYSDEC and NYSDOH reviewed a summary of the analytical data for all the shaping material imported to the Site. Upon review of the data set, confirmatory analytical sampling of the in-place shaping material was requested by the NYSDEC and NYSDOH. NYCDPR conducted test pit sampling and analysis under an approved work plan and submitted the data to the NYSDEC on February 16, 2011.

In their letter dated March 9, 2011, the NYSDEC stated that "NYSDOH reviewed the shaping layer test pit data and determined that it confirmed existing shaping layer data." The NYSDEC and NYSDOH agreed that a demarcation layer would not be required at areas of the golf course having a fill thickness of five or more feet of combined shaping and cover layer materials. The March 9, 2011 letter is included in Appendix C.3 of the 2013 Engineering Report, included in Appendix 20.

The aforementioned directives were the basis for the earthwork, fill placement, and landfill capping process. Additional details related to shaping layer material placement, demarcation layer installation, cover layer material installation, and related construction is as follows.

4.4.1 Shaping Layer Material

The Permit requires a minimum of one foot of clean shaping layer material to be installed over top of the existing MSW prior to cover layer material placement. Specific to the Golf Course, grading and compaction activities associated with the shaping layer material were generally completed by hole, consistent with the golf course architect's design. Once grading and compaction of the shaping layer material was completed, NYCDPR completed topographic surveys of the newly graded shaping material layer to assist in determining the depth of clean shaping layer material that was present over the pre-existing landfill surface. These shaping layer material surveys were generated intermittently as shaping layer material installation was completed in sections of the Golf Course.

An analysis was conducted by the IEM, which compared compiled historic surveys from 1998 to the final shaping layer surface surveys completed by NYCDPR. The 1998 surveys included elevations representative of the landfill surface for the Site prior to the earthwork associated with the Project. Based on an analysis and comparison of the survey data, portions of the Site that had less than four feet of approved shaping layer material were identified in a series of earthwork analysis drawings that were provided to the NYSDEC. The earthwork analysis drawings are included in Appendix 10. These plans identify the depth of shaping layer material and show the general progression of shaping layer material filling across the Site. Figure SP-001 entitled "Shaping Layer Material Earthwork Analysis via Surveys" includes a site wide earthwork analysis compiled from the various Site surveys and earthwork analyses completed as construction progressed at the Site.

In areas identified on the earthwork analysis drawings to have less than one foot of clean, in-place shaping material, test pits were performed by the Contractor and observed by the IEM to verify that a minimum of one foot of shaping layer material was present over the MSW, per the plans and Permit requirements.

If areas were found to have less than the required one-foot minimum of shaping material and could not receive additional fill based on the design plans, these areas were adjusted by over excavating the MSW

and backfilling with clean shaping layer material. This process was necessary in order to maintain the designed grades and comply with the Permit conditions. With oversight by the IEM, areas with MSW encountered at shallow depths in the tests pits were excavated outwards from the test pit location until one foot of clean shaping layer material was present. See Figure SP-100 entitled "Shaping Layer Material Test Pit Plan", which includes test pit locations superimposed on an earthwork analysis that visually represents the frequency, location, and presence of MSW within the required one foot minimum shaping layer section prior to reshaping. All test pit locations and the limits of the over-excavation were GPS located by the IEM utilizing a handheld GPS unit. Test pit locations were spaced 50 feet apart over the entire areas that the survey analysis estimated to have less than one foot of shaping layer material. In addition, if MSW material was encountered within the one-foot minimum shaping layer, the frequency of test pits were increased at the IEM's discretion to more accurately determine the extent of over-excavation required. Observations of test pit activities associated with evaluating the shaping layer material thickness are detailed in the IEMs Daily Observation Reports.

4.4.2 Demarcation Layer

Consistent with Special Condition 14 of the 2014 Permit, a demarcation layer was installed at the Site, specifically the Golf Course, where the combined thickness of shaping layer and cover layer materials combined were less than five feet. For this Project, "demarcation layer" meant a brightly colored, permeable plastic material placed on top of the Site's shaping layer material and directly beneath the Site's final cover layer material that is easily recognizable during an excavation. The request was made for the protection of Site workers during any future excavation work beneath the cover layer at the Site. Demarcation layer material for this Project consisted of orange construction fencing for the Golf Course.

On July 10, 2012, the NYSDEC confirmed that a nine-inch thick asphalt and subbase layer for the cart paths did not require any underlying cover material or demarcation layer. A black geo-grid material was installed under the cart paths associated with the Golf Course as part of the design. A copy of the correspondence is included in Appendix 19.

On November 21, 2012, the NYSDEC notified NYCDPR that demarcation layer may be eliminated from under ponds as NYCDPR identified that demarcation layer was not required as part of the Permit. A copy of the November 21, 2012 correspondence is included in Appendix 19.

NYCDPR prepared a Demarcation Layer Plan based on a comparison of final design grades and the top of waste elevations extrapolated from soil boring data. The Demarcation Layer Plan is included in Appendix C.4 of the 2013 Engineering Report (Appendix 20). Field verification that the demarcation requirements were being met was performed continuously and routinely by the IEM to confirm Permit compliance as outlined in the shaping layer material section above. Based on the data gathered from the earthwork analysis plans and the test pit excavations, actual areas requiring demarcation layer were identified.

In instances where NYCDPR felt that the installation of demarcation material was not necessary, test pits were excavated to four feet below grade, spaced 50 feet apart, to determine if there was more than four feet of clean shaping layer material installed over MSW. If it was determined via test pits that there was

more than four feet of clean shaping layer material present, demarcation material was not installed. The reasoning assumed a one foot thick cover layer installation and considered the March 9, 2011 NYSDEC/NYSDOH correspondence determining that demarcation layer was not required if the combined fill thickness above MSW was five feet or greater. The March 9, 2011 correspondence is included in Appendix C.3 of the 2013 Engineering Report (Appendix 20).

All areas with less than four feet of shaping layer material present that required the installation of demarcation layer material are identified on Figure SP-200 entitled "Demarcation Layer Plan". The limits of demarcation layer material, as represented on Figure SP-200, were located by the IEM using handheld GPS units at the time of installation, prior to cover layer material installation. Areas associated with the cart paths are also identified on Figure SP-200.

4.4.3 Cover Layer Material

Cover layer material was installed at the Site in accordance with the Permit. Special Condition 15(d) of the 2005 Permit required the following:

"The final placement (including topsoil), location, thickness, and detailed chemical limits of the final cover layers on the Site, including the community park and waterfront park, are subject to the specifications, directions and requirements determined by the NYS Department of Health (NYSDOH) to be applicable. It is the responsibility of the Permitees to obtain a written determination from NYSDOH.
The Permitees must provide the Department with a copy of NYSDOH's determination. No cover layer material may be placed on the Site, until the Department acknowledges receipt of NYSDOH's determination."

As required by Special Condition 15(d) of the 2005 Permit noted above, NYCDPR obtained such written determination from NYSDOH in a letter dated, August 2, 2006 included as Appendix C.3 of the 2013 Engineering Report (Appendix 20).

The NYSDEC's active recreational determination from July 28, 2009, required that NYCDPR install two feet of cover layer material and a demarcation layer throughout the Community Park. Soil probes confirmed extremely consistent and appropriate thickness of cover material throughout the Community Park and Golf Course.

For the Golf Course, the upper portion of the landfill was capped using Permit specified criteria for sand and/or topsoil material formally referred to as cover layer material. A sand material was used for the majority of the golf course cover layer with topsoil being used primarily in tree planting pits and other landscaped areas. The IEM observed capping activities associated with the cover layer material including, inspecting cover material at each source site and at the Site per the conditions set forth in the Permit and supporting reference documents. After installation of the shaping layer material and demarcation layer (as required), the cover layer material was installed. The IEM confirmed the depth of cover layer material placed on the Site in accordance with the Permit at the time of installation.

A minimum of one foot of cover layer material was placed over top of the shaping layer material consistent with the passive recreational determination at the Golf Course. Cover layer material was installed by means of either transporting stockpiled material that was previously inspected and approved by the IEM or by directly dumping the material in the work areas as it was imported to the Site. The material was then spread by bulldozers and specialty golf course shaping equipment. The IEM confirmed the depth of the cover layer material placed on the Golf Course area utilizing a graduated rod as the material was being installed.

Confirmation of the minimum of one foot of cover layer material installation on the Golf Course is included on Figure SP-200 entitled "Cover Layer Material Plan". This plan identifies the DOR report numbers and corresponding dates for when the IEM witnessed and measured a minimum of one foot of cover layer material being installed on the Golf Course. The cover layer material depth checks were completed by the IEM using a graduated rod to confirm that the final placement consisted of a minimum of one foot of cover layer material soil. Individual DORs documenting the IEM's observations are included in Appendix 5.

In addition to the IEM checking and confirming the minimum one foot thickness of cover layer material immediately upon installation, post-construction soil probes were completed in March 2015, and dug by hand to confirm the depth of cover layer material throughout the Golf Course. Prior to March 2015, once the site construction concluded and the vegetation was established throughout the Golf Course, an aerial survey (including topography) was performed by LAWS in Spring/Summer 2014 and provided to NYCDPR and subsequently to the IEM in December 2014. In addition, NYCDPR performed a Golf Course wide ground topographic field survey.

The IEM was provided with electronic AutoCAD files of both surveys that captured the final topography of the cover layer material surface. The IEM performed a cut/fill analysis using Civil 3D software by comparing each cover layer material survey to the previously generated shaping layer material surveyed surface (also field surveyed by NYCDPR). Based on a review of the cut/fill analysis results and subsequent discussions with the NYSDEC and NYCDPR, it was agreed by all parties that both survey results were inconclusive, and could not accurately reflect the thickness of the cover layer material on the Site. Since the 12-inch minimum cover layer material thickness could not be verified via survey, NYCDPR then moved forward with field investigations using handheld soil probing equipment in order to perform comprehensive Golf Course wide physical confirmation depth checks.

The IEM was on-site and witnessed all soil probes, and documented all soil probe locations and depth results using handheld GPS equipment. The soil probing work was completed by NYCDPR staff. Soil probe fieldwork commenced on March 11, 2015 and was completed on March 27, 2015. Soil probes were initially completed on a 50-foot grid but were increased to a 100-foot grid on March 19, 2015 based on the satisfactory initial field results and approval by the NYSDEC in an email dated March 18, 2015 (see Appendix 19 for the March 18, 2015 email).

Refer to Figure SP-003 entitled "Cover Layer Material Soil Probe Investigation Results" which illustrates the results of the soil probing investigation. The final results of the soil probing investigation were reviewed on-site with NYSDEC staff, and the NYSDEC required that NYCDPR correct an area in the vicinity of the Hole 14 Green, which resulted in cover soil layer thicknesses of 3 inches and 6 inches. NYSDEC staff stated that this area would require reconstruction in order to satisfy the intent of the 12-inch cover layer material thickness as required by the Permit. NYSDEC staff concluded that the remaining soil probe results sufficiently addressed the intent of the 12-inch cover layer material thickness Permit requirement, and the remaining Golf Course area did not require any further reconstruction or evaluation of the cover layer material.

As per the IEM's Daily Observation Reports, the IEM witnessed the subsequent field delineation the of the area deemed to be of insufficient cover layer material thickness (i.e. the area adjacent to Hole 14 that resulted in cover layer material depths of 3 inches and 6 inches via soil probe results) during the week of April 20, 2015. This was performed by using the soil probe equipment to accurately delineate the limits of the area having a cover layer material thickness of less than 12 inches, and resulted in an area of approximately 6 feet by 12 feet.

On May 4, 2015, the IEM observed the Trump Organization construction crew over-excavate the previously delineated areas that had less than 12 inches of required cover material, adjacent to Hole 14 Green. The area was over-excavated approximately 24 inches below grade, and 24 inches of Cover Material was backfilled and graded over the excavated area. The excavated area was GPS mapped using a hand held Trimble device. Excavated surplus shaping material was transported to a shaping stockpile adjacent to Pond P2.

Similar to the Golf Course, the 24 inch minimum cover layer/shaping layer materials thickness could not be verified via survey. NYCDPR moved forward with field investigations using soil probes in order to perform physical confirmation depth checks. The IEM was on-site and witnessed all soil probes, and documented all soil probe locations and depth results using handheld GPS equipment. The soil probing work was completed by a NYCDPR subcontractor. Soil probe fieldwork commenced on May 18, 2015 and was completed on May 22, 2015. Soil probes were completed on a 50-foot grid. Refer to Figure SP-004, entitled "Community Park Cover/Shaping Layer Material Soil Probe Investigation Results", which illustrates the results of the soil probing investigation.

4.4.4 Greens and Tees Mix, Bunker Sand

Consistent with Section 2.1.2 "Cover Layer Fill Specifications" included in Volume #2 of the 2005 Engineering Report, environmental testing was not required, consistent with cover layer material requirements for the green and tees mix or bunker sand, and therefore was not completed for these materials.

On June 8, 2012, the NYSDEC confirmed that the sand material used for the tees, greens, and bunkers should not be counted towards the Permit stated allowable cover soil maximum. A copy of the June 8,

2012 correspondence is included in Appendix 19. NYCDPR's consultants estimated the required sand material volumes as follows: Tees and Greens (24,705 cubic yards), Driving Range Tee (3,025 cubic yards), and bunkers (6,076 cubic yards). Since these values were estimated, calculated by NYCDPR's consultants, it shall be noted that actual installed volumes may have fluctuated from the volumes identified above. This information is based on an email from Joe Voss to Faisal Choudhury on June 13, 2012.

Special Condition 15 of the 2005 Permit did require that the tees and greens mix imported to the site to be tested as per material testing requirements to meet the project technical specifications. Fertilizer and soil amendments could be applied on the tees and greens mix after spreading to construction specifications and finally grassed, as per the specifications provided by the agronomist.

4.4.5 Topsoil

Topsoil was used on the Site, in lieu of sand, specifically in tree planting pits and other landscape areas. Any topsoil that was imported and used on the Site was approved and met all of the cover layer material Permit requirements including the specification included in Exhibit C of the 2005 Engineering Report.

4.5 Meetings

On a bi-weekly basis during construction of the Community Park and the Golf Course, progress meetings occurred in the NYCDPR field office trailer on the Site. Various representatives from NYCDPR, Trump, LAWS, KSE, TRC, the IEM, and appointed representatives attended the meetings to discuss construction progress, current issues, and scheduling.

Available meeting minutes from construction progress meetings are attached as Appendix 9.

4.6 As-Built Survey, Record Drawings, Deviations from Approved Design Plans

This section deals specifically with as built drawings, final record drawings and deviations that occurred during construction. It is further broken down into work performed in the Community Park, the Golf Course, the Waterfront Park, deviations to NYSDEC Permit as it pertained to fill importation quantities, modifications to the landfill gas vent trench and additions to the golf course made by the concessionaire.

4.6.1 Community Park

The Community Park project consists of the following features and was designed by Thomas Balsley Associates:

- A softball field and smaller peewee/T-ball field with new drainage
- Two basketball courts
- New formalized park entrances
- Play areas for tots to pre-teens
- Seating areas and lawn for non-programmed activities
- A path and trail system that winds throughout the park
- A detention pond which collectives drainage from the eastern part of the golf course
- Foot bridges
- Shade structure

- Timber deck overlook
- Herbaceous plant materials
- Temporary below grade utilities to service a standard DPR Comfort Station (constructed under a separate contract),
- Below grade infrastructure to service Community Park lighting and fountains,
- Modifications to the Landfill Gas Vent Trench system
- New perimeter fence.
- New Comfort Station. (The comfort station construction is still in progress and expected to be completed in the Fall of 2015)

Deviations to the Community Park project consist of the following:

- The reconfiguration of the location of the perimeter fence on the south and west sides of the Community Park reducing the area of the site[1].
- One missing Vertical Landfill Gas vent just south of the most southerly entrance to the park.
- The relocation of a drain inlet in the softball field[2].
- The utilities servicing the Comfort Station are constructed as of December 10, 2015,[3] which represents the date in which the sanitary sewer connection was completed.

It is noted that below grade features were not examined during a NYCDPR field inspection conducted during July 2014. Community Park as-built information and documentation are included in Appendix 16 and includes a November 18, 2011 letter from LAWS indicating that the Community Park construction was completed as designed (exclusive of the comfort station) as well as three as-built drawings associated with the pond liner construction dated July 14, 2010 as prepared and certified by LAWS (Appendix 16).

4.6.2 Golf Course

The Ferry Point Park Golf Course project consisted of the following:

- A Maintenance Building with an active sub-slab depressurization system.
- A comfort station with as active sub-slab depressurization system, which includes a snack bar.
- A unenclosed rain shelter
- An 18 hole links style golf course
- A practice area
- Fill and topsoil importation
- A site drainage system and retention ponds
- A new irrigation pond and irrigation system
- All the necessary plumbing, electrical, gas, environmental monitoring and control devices for the golf course, maintenance facility and comfort station
- Roadway and parking area construction, paving, striping and drainage in compliance with the DEC permit
- Perimeter fencing and appropriate landscape screenings.

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[1] See App. 4; Community Park Contract Drawings; Thomas Balsley Associates Constr. Dwg L1.3 & L1.6 dated 03/06/09, revised 09/30/09.

[2] See App. 4; Community Park Contract Drawings; Thomas Balsley Associates Constr. Sketch dated 2/11/09

[3] See App. 4; Community Park Contract Drawings; Thomas Balsley Associates Constr. Comfort Station Dwg P-2 dated 1/26/09

Deviations to the Golf Course consist of the following:

- The active venting system around the Irrigation Pond was converted into a passive system. Fiberglass manholes were changed to concrete manholes and additional piping added around the entire pond. Six (6) vertical passive vents were added, one at each box location and installed October 2014, following NYSDEC discussion. On May 22, 2015 the NYSDEC approved the removal of vertical passive vent #5 thereby leaving five (5) vertical passive vents in operation.
- Modifications to the grading plan did occur as well as minor modifications to drainage and are documented in "Ferry Point Site" visit notes produced by "Nicklaus" from 2010 through 2013 and as shown on supplemental design drawings. (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015 and revised 4/23/2015)
- Retention ponds were lined as per NYSDEC requirements as shown on supplemental design drawings. (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015 and revised 4/23/2015)
- The golf cart path surface material was changed to asphalt and additional drainage was added as shown on supplemental design drawings. (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015 and revised 4/23/2015)
- The Clubhouse Parking Lot paved footprint was increase/installed as per NYSDEC Consent Order # R2-20100521-172. The Clubhouse Parking Lot was completed in May 2014 as shown on supplemental design drawings. (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015 and revised 4/23/2015)
- The irrigation pond pipe penetrations were revised as shown on supplemental design drawings. (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015 and revised 4/23/2015)
- The Turf Nursery was revised as shown on supplemental design drawings. (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015 and revised 4/23/2015)
- The active venting system inside of the Comfort Station was modified as per Integral Engineering, Inc. design drawings. (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015 and revised 4/23/2015). System is functioning, and requires the installation of sensor components of the vapor detection system. Contractor procurement for the installation of the sensor components is in its final stage of approval. Implementation is anticipated by Spring 2016 and the final signed and stamped as-built drawing will be submitted to NYSDEC following prompt inspection of the installation.

4.6.3 Waterfront Park

Construction has not begun in the area designated "Waterfront Park".

4.6.4 Additions to the Golf – Concessionaire

The concessionaire running the Golf Course is the Trump Organization. Since in their possession (NYCDPR Use Inspections were held for various parts of the project from September 2012 through March 2014) the following additions/deviations have occurred (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015, revised 4/23/2015, 6/25/2015 & 7/13/2015):

- The construction of a Golf Cart Barn (currently under construction)

- The construction of a sign (currently under construction) and curb line realignment
- The construction of a temporary clubhouse including temporary utility services (trailers placed upon the asphalt parking lot)
- The construction of a "starter" kiosk including utility services as well as minor golf cart path widening around it.
- The construction of a clock.
- The construction of a weather vane/station.
- Minor irrigation changes.
- Additional planting along the perimeter fence line. Removal of the aluminum fence along the Waterfront Park and the Golf Course and the installation of a fiber optic sonar alert system in its place (installation of the fiber optic sonar alert system occurred from July 25, 2015 to August 19, 2015 and was witnessed by the IEM).

5 Environmental Monitoring

5.1 SWPPP

On November 20, 2003, NYCDPR received an Acknowledgement of Notice of Intent for coverage under SPDES General Permit for Stormwater Discharges from Construction Activity (General Permit No. GP-02-01), permit identification number NYR10D547, which transitioned SPDES General Permit coverage previously held under GP-93-06. On May 12, 2009, NYCDPR received an Acknowledgement of Notice of Intent for coverage under SPDES General Permit GP-0-8-001; permit identification number NYR10R112, which was maintained throughout construction completion. A copy of the SPDES General Permit Acknowledgement and Notice of Intent are included in Appendix 1.

In compliance with NYSDEC guidelines for State Pollution Discharge Elimination System (SPDES) General Permit (GP-0-8-001) and General Condition 9 of the 2014 Permit, a Storm Water Pollution Prevention Plan (SWPPP) was implemented during the course of construction at the Site. All work was completed in compliance with the final SWPPP, dated December 22, 2009.

In addition to intermittent IEM SWPPP inspections, NYCDPR representatives also performed SWPPP inspections. NYCDPR performed bi-weekly inspections and associated Site Assessment Reports (filed at the FPP document repository) to ensure compliance with Permit requirements. SWPPP inspections were carried out through the spring of 2014. The SPDES permit will remain effective until completion of ongoing construction including the Golf Course Clubhouse.
Every possible action was taken to avoid non-compliance, such as turbid water leaving the Site. The following is a list of permanent features that were installed at the Site, beyond the SWPPP requirements:

- French drain at the eastern, western, and northern perimeters of the Site to control surface flow of stormwater;
- All ponds were lined, to prevent stormwater infiltration into the solid waste layer; and
- A new trash rack and rock outlet dam at the 60-inch Whitestone sewer outfall draining to the East River.

5.2 Landfill and Off-Site Gas Monitoring

The entire Ferry Point Site is equipped with a Landfill Gas (LFG) Management system to cover both on and off site monitoring. The systems purpose is to allow use of the site in its intended purpose as a golf course without having the occupants on the site and users of the golf course being exposed to harmful conditions that would be the direct result of the existence of the landfill. The Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East Bronx, New York May/August/Oct 2013, referenced the summary of prior LFG efforts. These included preparation of a model for surface methane emissions using data collected during 2009 and 2010. Data for these studies also included a health impact analysis that is summarized in this final Certification Report and is attached with the 2013 Supplemental Engineering Report as an Appendix 20.

The generation rates for LFG were estimated as far back as 1999 using EPA Guidance documents and the results indicated the LFG rates for Ferry Point were consistent with municipal solid waste landfill rates for a facility of this era and overall age. The analysis in 2010 also evaluated hazardous air pollutants (HAPs) in areas of the course as well as community park. In 2011, NYSDEC concluded that there was not an ambient air impact from gas vent emissions and that there was no health impact in the park. This was a major component that allowed the discontinuation of monitoring the passive vents installed in 12 locations throughout the park. Monitoring of the passive vents is included as Appendix E.3 in the Supplemental Engineering Report (Appendix 20).

The following were included as components of the Ferry Point Park Landfill Gas Control System:

1. Irrigation Lake Venting System-Passive
2. Water Quality Ponds Venting System-Passive
3. Sub-Slab Depressurization Systems
    a. Maintenance Facility-Active
    b. Comfort Station in Golf Course-Active
    c. Comfort Station Community Park-Active
4. LFG Venting for subsurface utilities entering enclosed spaces-Passive
5. Perimeter Vent Trench-Passive
6. Perimeter Vent Trench/East-Passive
7. Golf Course 25 In-ground vents-Passive

The Ecology & Environment 2011 Landfill Gas Management Report describes in detail the landfill gas generation rates, composition, migration pathways and methods for diffusion (Appendix 20). It also discusses both the horizontal and vertical migration of LFG across the landfill. Figure 3-1 in the LFG Report (MSW Fill Progression Map, March 11, 2015) shows the historical fill progression that occurred over the landfill lifespan between 1951 to 1959 and how significant areas of open water was filled in over the life of the landfill .

As far back as 1999, Landfill Gas generation rates were noted to be low and in the range of .00004 cubic feet per minute per square foot or about 2cfm per acre of surface area. These generation rates provided discussion and recommendation for installation of an active system beneath planned structures. A 1999 Report referenced in the Ferry Point East Landfill Gas Management Plan did not recommend installation of active venting systems in open spaces with the exception of specific turf grass areas. The 1999 Report also included numerous LFG Control Systems including; interceptor and venting systems, impermeable liner systems for irrigation ponds, soil plugs and conduit seals for underground utilities that enter buildings (Appendix 20).

The main facility LFG management structure was the perimeter vent trench installed in 2001. The specific purpose was to prevent offsite migration of landfill gas. This was designed, and installed with oversight by TRC. The entire trench was installed along the eastern site boundary and allowed a gas barrier to be present between the site and the neighboring residential homes. Construction included extending the trench from the water's edge at Emerson Avenue along Balcom Avenue and the site boundary, approximately 1050 ft. past the intersection of Schley and Buttrick Avenues.

Monitoring of the venting trench began using a number of wells that were installed along the trench. In 2001 monitoring performed after the trench was installed indicated there was an off-site source of methane. This was identified by AKRF and further evaluation along the venting trench indicated there were additional off-site LFG readings. Test pits were identified to have MSW beyond the site and this was one potential source of the elevated readings. The second was the historic filling in the northeastern portion of the site on a former tidal or marsh wetland. No methane was reported in ambient air at that time and the source of methane was concluded by AKRF to have originated from an off-site source.

The initial facility LFG system was proposed to be installed as an active system. Following the 2009 landfill permit modification submittal, the conceptual passive LFG system was updated to include all areas not covered by enclosed structures. In summary, the passive LFG system meets a number of historic reports including the 1999 EAS (AKRF), 2002 referenced in the Landfill Gas Management Plan (Appendix 20) and Volume #2 Application for Modification to the Solid Waste Permit Engineering Report, June 30, 2005, Appendix 20) and was approved under the 2005 NYSDEC Part 360 permit (Appendix 1). In the 2009 DEC Part 360 Permit Modification Request (November 25, 2009, Appendix 20), an active system was recommended. Supplemental Site investigations and extraction testing was performed by TRC Engineers in the period between 2009 and 2010. This information was reviewed by Walsh Environmental Scientists and Engineers in 2010 (Ferry Point Landfill Gas Report, November 2010, Appendix 20). The resulting analysis and evaluation concluded that the Site was able to be operated safely with a passive venting system which was consistent with the 2005 Permit.

The July 2000 NYSDEC Part 360 Permit (Appendix 1) and February 2002 Part 360 Permit Modification (Appendix 1) approved by NYSDEC included numerous conditions related to material importation and capping. The permit was also specific in requiring the installation of a series of perimeter-based landfill gas monitoring wells. Twenty-one (21) perimeter monitoring wells were initially recommended and a final total of 25 were installed at intervals of approximately 250-300 ft. around the perimeter (PZ-01 to PZ-25),

(SH-21 Groundwater Monitoring Well Construction; November 8, 2011. The perimeter for purposes of these wells would be the edge of the golf course portion of the landfill and the adjacent residential neighborhood. An additional 56 monitoring points were required to be installed as the main component of the off-site monitoring network. The off-site wells were referenced in the modified 360 permit. The combined perimeter and off-site wells comprise the full gas monitoring system for the golf course fill area.

Modifications to the overall Landfill Gas Collection systems were based on and included the following:

- In 1986, a passive venting system was reportedly installed with outflow venting. In 2002, there was a plan presented by TRC to perform test pits in order to identify this system and more specifically, to identify the outflow vent location and to determine if connective piping was functioning. The system was never located and has not been able to be incorporated into any LFG system.
- 2005 Engineering Report Vol. 1 (June 30, 2005, Appendix 20) included several LFG components and systems that were aimed to maintain a similar program to the 1999 proposed EAS. This included active systems for all enclosed buildings and sealed penetrations for utility connections. All perimeter and off-site monitoring wells would be monitored bi-weekly for both methane and oxygen. Monitoring showed several points off-site with elevated levels indicating a source that was also located beyond the site. Groundwater was monitored on a monthly basis to evaluate water level in concert with the LFG trench elevation. Irrigation Lake and ponds were recommended to have gas-venting layers and liners installed at their base to allow for collection and discharge of gas collected from beneath them. Specific instances of impermeable barrier installation could be noted where turf health was necessary to be maintained. Most specifically, the 2005 Report did not recommend LFG venting systems in open space areas (Appendix 20).
- A 2009 Extraction Pilot test was conducted to better understand generation rates for on-site LFG. The interpretation of the results of this test prompted a proposal for a low-flow active LFG system that covered the overall golf course. The reason referenced in the Supplemental Engineering Report for the Solid Waste Facility Permit Application, October 13, Appendix 20) was that methane levels in the subsurface was not expected to be able to be made safe by the opening of the golf course. The irrigation pond system was also included in the plan to be connected to the landfill venting system. One caution in this report was the potential for pulling large volumes of ambient atmospheric air into the subsurface which could cause fires and explosions. The system included some forty control zones of extraction wells, green and tee collection piping all connected to vent flares with in-line fans. This system was never instituted.

Modifications to the gas monitoring system included the design and installation of a landfill gas (LFG) vent trench along much of the eastern park boundary. This trench extends from the water's edge at the foot of Emerson Avenue, along the entire length of the site boundary of Balcom Avenue and along Schley Avenue. The trench continues approximately 1050 linear feet to the west past the intersection of Schley and Buttrick Avenues. The trench totals just over 1 mile in length (5350 feet) and construction began in May 2001 and was completed by the end of December 2001. This trench does not cover the entire upland

perimeter. The remaining portion was covered with an existing trench along Miles Avenue. This was planned to remain following the golf course development and provided an effective cutoff for off-site migration in that direction. The final construction included the trench and drainage.

The LFG passive vent trench was designed to intercept landfill gases (primarily methane) originating and leaving the site. The limits of the municipal solid waste extend beyond the park boundaries and the LFG passive trench was not designed to facilitate collection of or negate the impact of gas generated from that material. The trench presents a sound engineering control that will intercept gas migrating through preferential pathways and other routes of least resistance that intersect it. The LFG trench acts to briefly capture LFG moving out of the park and then allows it to vent to the atmosphere. The trench is designed to have a very high relative permeability with increased porosity in comparison to the landfill waste material. As gas enters the trench is can easily and rapidly mix with ambient air in the pore space and then rise out where it can be discharge to the atmosphere. One of the key components of the trench is that the bottom remains into the water table. As long as the bottom of the trench is submerged in the shallow water table, LFGs at the Park cannot migrate beneath and beyond the trench.

The 25 perimeter monitoring wells (also referred to during the construction as piezometers) were located immediately adjacent to the LFG passive vent trench and along the site perimeter adjacent to Miles Avenue. The specific purpose was to provide consistent data comparing the trench bottom and top of the water table to identify locations where the water table may have dropped below the trench, thus indicating the ability for the trench to intercept and capture all LFG along its entire length.

The LFG passive vent trench was constructed of a geotextile wrapped stone envelope that extends from .5 ft. below the ground surface down to a depth of approximately 3 ft. below the surface of the water table. The upper .5 ft. of the trench has a loose covering of wood chips to allow LFG that has entered the trench to exit and discharge to the atmosphere. There were areas where the final depth of the trench only reached to 1 ft. below the water table. These locations were caused by an unstable sidewall after the groundwater table was reached. The trench was also constructed with horizontal perforated 4 to 6 inch polyethylene tubing placed beneath the wood chips near the top of the stone backfill. The horizontal tubing was installed to allow connection to vertical risers in the event the trench surface is covered at some point in the future with an impervious surface.

LFG monitoring has been performed in accordance with Special Condition 30 from the modified Solid Waste Permit (Response Action Plan, December 10, 2002, Appendix 19). This included monthly monitoring during construction in order to determine if water levels were maintained above the bottom of the trench. Specific protocols were required to be performed in the event groundwater was determined to be below the bottom of the trench.
The following Action Plan items were incorporated for low groundwater levels:

1. Evaluate methane concentrations in nearby perimeter methane monitoring wells and semi-permanent monitoring points. If methane concentrations measured are below site-

specific action levels (25% LEL), the normal frequency methane monitoring will continue and the groundwater level measurements will increase to bi-weekly.

2. When groundwater levels increase to fall back into the envelope of the recovery trench, measurements will return to monthly.
3. If groundwater remains below the trench bottom for one additional bi-weekly monitoring event but nearby well methane levels remain below the action level, groundwater monitoring will continue until such time as routine monitoring can be reinstated.
4. When groundwater is measured below the trench and methane levels are at or above the action level, both groundwater and methane measurements will continue at bi-weekly frequency.
5. If both groundwater and methane remain below the trench bottom and above the action level (respectively) for a second consecutive week, a recommendation for further action will be made to NYSDEC.

During the 2014 Solid Waste Facility issuance several references to continuing monitoring and the documents that would be covered under were made (DEC No. 2-6006-00014/00013 (2-6006-0014/00016 Permit Issuance – Solid Waste Management Facility (Tidal Wetlands), May 21, 2004, Appendix 1). The Ferry Point Park East Post Construction Custodial Care Plan is specifically called out as the governing set of protocols for this. Monthly LFG vent trench monitoring is to be performed during the duration of the permit (October 2013, Appendix 20). Additionally under Special Condition 25 there is continued monthly inspection required for the gas venting trench integrity as well as mulch cover. All repairs are required to be made within two weeks and therefore prior to the next inspection. The mulch cover is required to be replaced each spring. Trench maintenance is also described in the Supplemental Engineering Report, Volume 3, Appendix F (Appendix 20).

Landfill methane monitoring has shown from collection of data within the site to be above general action levels of 25%LEL as well as LEL from within the MSW layer. The resulting measurements between 2008 and 2009 supported the hypothesis that methane was generally present throughout the entire MSW layer rather than just from individual locations. Measurements from the shaping layer above the MSW indicated that concentrations decline rapidly once out of the fill layer. These measurements appear to present a better picture of the landfill gas presence and production because the extraction test performed in 2009 referenced a 2003 Journal of Air &Waste Management with fatal flaws for infiltration of atmospheric air into the landfill. In addition, the 2009 extraction test did not reportedly follow the EPA testing methods and would then incorrectly estimate the presence and production of methane. Testing reportedly used differential pressure at surrounding test wells. EPA specified determining radius of influence based on absolute pressures under static and active extraction conditions. EPA measures ambient air intrusion by percent volume of nitrogen and the testing identified ambient air intrusion by percent oxygen. The conclusions that were reached at that time indicated that atmospheric intrusion noted during the testing would have caused the LFG extraction rate to be significantly higher than actual LFG generation rates within the area of the pilot test. If the entire LFG generation rates were then based on pilot test results, the resulting estimate would be potentially far over the actual LFG generation. Historic data from monitoring indicated that LFG generation rates had sharply declined since the initial

2000 measurements began. The reduction was referenced largely as readings from over 100% LEL to non-detect. While there were a few exceptions, this overall reduction was credited to, among other things, the perimeter venting trench and overall LFG decline. One specific area in the vicinity of MW-0 found to continue to present elevated readings was believed to be impacted from an off-site source.

The Ferry Point Landfill Gas Report (November 2010, Appendix 20) was a summary of various testing across the landfill including flux chamber testing that was used to determine the surface emission rates from the overall landfill. The resulting emission rates were important in making the determinations for receptors and potential impacts of methane and hazardous air pollutants. During this review of testing data and as it was presented in several reports, no methane was detected in field measurements from any of the sample locations. This lack of detectable methane was attributed to rapid attenuation of methane as it passed from the MSW into the shaping material and out into the atmosphere. Hazardous air pollutants in the form of certain VOCs were detected in flux box sampling but all below the reported standards or at levels similar to those identified as background.

Testing within the Community Park was also conducted and methane was also not detected in flux box testing indicating it is not emitted at the ground surface at concentrations that are measureable. This meets NYCRR Part 360 criteria. Measurements from within the top 2 ft. of the shaping material were below 25% of the LEL which also falls within the NYCRR Part 360 requirements for on and off-site structures. Perimeter methane was below Part 360 criteria with the exception of the vicinity of MW-0 along Buttrick Avenue where methane was above 100% LEL. This particular area was beyond the site and consisted of early tidal marsh and pre-1945 MSW filling that is believed to be the contributing source of methane. All measurements from the Community Park vents were below ambient concentrations and well below NYSDEC standards indicating no impact above public exposure thresholds in the vicinity of the vents (Ferry Point Landfill Gas Management Plan, October 2011, Appendix 20).

Modelling of the emissions over several efforts conducted between 1999 to 2010 showed that methane levels were very low and in locations where methane was identified, levels were expected to continue to diminish over time. In order to provide adequate ventilation for enclosed spaces and especially where there is a source of ignition (electrical connections or machinery), mitigation methods would be implemented including Sub Slab depressurization systems (SSDS) at each building. This was further described as conservative as methane concentrations exceeded LEL within the MSW layer back during 2008/2009 in TRC testing of the subsurface. Also during this same monitoring period, methane was not present within the shaping material above the NYCRR Part 360 limit of 25% LEL in any location of proposed buildings. Passive venting of the MSW was recommended as a precautionary measure where no buildings were planned and active venting below or within building footprints.

The Golf Course portion of the Site also includes a sizable irrigation lake and water quality ponds. The purpose for these water bodies covers two positive issues. The first is to help control and limit precipitation and infiltration through the cover material and into the solid waste and the second is to help collect water for controlled release and irrigation. Golf course ponds are typically used for storage and

irrigation regardless of the overall construction. The ponds and lake were each designed to be lined in order to contain as much runoff as possible making it available for irrigation. A gas transmission layer was constructed beneath the irrigation lake. This was connected to perforated piping installed around the lake. The 2009 Part 360 Permit Modification Request included Contract drawings showing this piping as a passive venting system surrounding the lake (Appendix 20).

Water quality ponds were proposed to be lined up to the permanent water level capacity with low permeability low density polyethylene (LDPE) liners with the incorporation of a passive venting system. Ponds where MSW was encountered within the excavation would be lined for the entire volume.

The smaller ponds have also been designed and constructed with a gas transmission layer to promote passive venting. This layer consists of permeable gravel and perforated collection piping extending beneath the ponds and exiting from vent stacks that extend above the breathing zone. The drawings and specifications for the water quality pond liners and passive venting systems were included in the Supplemental Engineering Report Appendices (Appendix 20).

The Community Park portion of Ferry Point Park is located along the northeastern side of the site. This includes walking paths, open space and a single comfort station structure. The LFG components of the Community Park portion consist of 12 LFG vents and an active sub-slab depressurization system beneath the comfort station. Sampling and monitoring of the vents has shown that since at least 2011 there has been no measurable flow in the vents and detectable methane in 3 of the 12 vents. Ranges of methane were between 7.5% to 100% LEL as referenced in the 2011 Ferry Point Landfill Gas Management Plan (Appendix 20).

Twenty-five stand-alone vertical passive vents were installed across the golf course and twelve passive vents were installed in the Community Park. The total area not covered by buildings and water features is approximately 190 acres and the ratio of vents per acre is one per five acres. A greater ratio was applied to the community park which has twelve passive vents in open spaces. All landfill and community park vents operate based on changes to water level, atmospheric pressure and also production of landfill gas. Gas can move through the fill material to a point where it is able to be removed through a vent. Additional smaller gas volumes can move upward into the shaping material to be passed along the surface interface. Based on readings, these concentrations are both low and rapidly diffused indicating the overall volume is much lower.

Following the revision of the active venting proposal for the entire Site, the enclosed buildings and structures were left with the earlier requirement for active venting systems. This was required due to the explosive and accumulating nature of methane and other oxygen displacing gases that exist in landfill conditions as well as being precautionary to prevent the potential of accumulation of explosive gases in these locations. In order to protect occupants and visitors of enclosed structures from accumulation of LFG, active venting of the sub-slab area was recommended. The active sub-slab systems prevent accumulation of gas by actively removing it to the atmosphere and increase the flow of air beneath the buildings. This creates a change in pressure from beneath the slab and the inside of the building which

prevents LFG from entering the building in its more concentrated form. Once LFG leaves the confined space from beneath the landfill and mixes with ambient air, the concentrations are rapidly diminished to levels that are not detectable above background.

The three enclosed buildings (maintenance and two comfort stations) located on the Golf Course and Community Park were required to have SSDS incorporated into the slab design and foundation plan.

Two initial buildings within the golf course (maintenance and comfort station) and one in the community park (comfort station) were recommended to be outfitted with active sub slab venting systems. The maintenance building and comfort station in the golf course and comfort station in the Community Park were each proposed and were outfitted with an active SSDS. The designs were initially submitted in the 2009 DEC Part 360 Permit Modification Request (Appendix 20). Operation and maintenance of the systems (once active) is provided in the Operations, Monitoring and Maintenance Plan and in the Post Construction Custodial Care Plan. Systems will have monitoring, notification controls and remote capabilities in order to allow monitoring of conditions.

Sub slab systems for the three existing structures on site function in a similar fashion by reducing the air pressure beneath the foundation and inducing a slight negative pressure. The negative pressure prevents upward migration, accumulation and infiltration of LFG into the aboveground space. Systems can incorporate varying designs in order to accommodate structural requirements, utilities and layout of the overall building.

The maintenance building and community park systems consist of more typical sub slab systems with perforated piping placed in the backfill material above the municipal solid waste but beneath the foundation slab. Piping is connected to a vacuum blower that exhausts the sub slab gas from a high single point into the atmosphere. The comfort station within the golf course uses a similar manner of equipment with the major difference being the foundation design was modified to include the creation of isolated vaults sandwiched between the lower mat slab and upper floor. No access can be made into those vault spaces and they are filled with low density foam. Vent piping was installed into the sealed vaults and the vapor extraction system effectively creates a higher vacuum (negative pressure) in this vault space than would typically be seen below an open foundation. The piping penetrated the floor in the main portion of the building and was extended into the attic where the blower was mounted. Exhaust was vented through the top of the roof in a dedicated stack. The system was installed in March 2015 and put in operation prior to opening the golf course on April 1, 2015. The comfort system details are also described in the deviations section of this report.

The Maintenance building was constructed with a pile supported slab that covers the entire footprint of the building. The system was constructed as shown on drawings X-001.00 through X-006.00 (Contract drawings for: Construction of a Maintenance Building, A Comfort Station, and One Rain Shelter Within the Ferry Point Golf Course – Contract No. X1256-209M, November 11, 2011, Appendix 4). Prior to pouring the slab, the existing ground surface was prepared with geo-textile fabric, a minimum 12 in. layer of aggregate that is gas permeable to allow flow from all areas beneath the slab into the collection piping,

rigid insulation all covered by an impermeable barrier such as liquid boot or other equivalent. Liquid boot and all barriers used are compatible with the known and identified volatile organics identified at the site. Liquid boot was applied to provide a 60 mil thickness. A special capping material was also placed above the liquid boot to protect it from perforations when the rebar reinforcing rods were set in place. Six inch dia. PVC piping was installed beneath the center of the Maintenance Building floor and this was connected to a vertical riser that would exhaust through the roof. The blower was located as the piping exited the slab into the building and exhaust extended up through the roof. The system was combined with combustible gas meters located in each of the occupied spaces of the building that monitor the atmosphere in each area and are connected to a central alarm. Sub slab monitoring points were also installed along the length of one side of the building to allow for sampling. Each point was installed through the slab into the permeable aggregate and the penetration through the slab was sealed. This system was operational prior to the opening of the golf course as the building was being occupied prior to opening of the golf course.

The system in the comfort station at the Community Park was installed in a similar fashion with a smaller footprint building. This system was a single length piping system installed beneath the foundation using the same construction layering as the maintenance building. The blower and equipment has been completed and the system not yet initiated as that area is not currently open. The system is expected to become active in the very near future.

The comfort station within the golf course was also outfitted with an active system but the slab design for this building was modified so as not to require pile supports. This foundation design included a vapor barrier placed on the prepared subgrade. No MSW was exposed and the fill beneath the building was consistent with shaping material consisting of sand and gravel. A mat slab that was 1.5 ft. thick was poured over the vapor barrier and then 4 ft. vertical walls were formed on the slab to cover the perimeter as well as divide the slab into 4 roughly equal sections. The inner sections of the slab were then filled with solid foam up to just below the top of the walls. Six inch PVC piping similar to that used in the maintenance building sub slab was used and extended to the outer two segments. A vertical riser penetrated the floor inside of the building and was extended up into the attic space where the blower was located. The blower exhaust was directed out of the roof through a vent. The system was designed to create and maintain a lower pressure vacuum on the entire four-chamber sub slab area in order to prevent any sub slab gas from accumulating within that space. Pressure testing of the entire area showed that negative pressure was able to be generated and maintained between the mat slab and floor of the comfort station. This system was installed and began operating prior to opening of the golf course and occupation of the building.

Additional controls installed within the buildings included soil/bentonite collars around utilities servicing the buildings. Foundation penetrations were sealed with these engineering methods to prevent infiltration both into the void spaces and up through foundation slabs where utilities are installed. Additionally, soil/bentonite collars were installed in utility corridors where permeable pipe bedding was used in order to prevent LFG from migrating laterally. All conduit and utility penetrations into floor slabs

were also closed with soil/bentonite seals to prevent those corridors from acting as preferential pathways for LFG migration up into occupied spaces.

The Community Park Comfort Station was constructed in an area of MSW at shallow depths below grade and within the foundation envelope. The foundation was designed to incorporate piles for slab support. All utility trenches that were excavated to the building were installed in either shaping material or if MSW was encountered, it was over excavated and the trench backfilled with granular fill to allow all utilities to be place on bedding that did not contain MSW. During excavation, short duration and dewatering was occasionally necessary. Any water removed during dewatering was pumped a short distance away into existing trenches or other locations.

Off-Site monitoring for methane has been conducted back to the early 2000s. Probing was the primary early monitoring and assessment method. Probes were historically located on Schley, Buttrick, Balcom, Miles and Emerson Avenues. Since 2002, concentrations of methane have been lower than the LEL and this has been used to present the lack of significant source of methane at these off-site sources. In 2002, the Methane Monitoring Study (AKRF) identified the presence of buried MSW beyond the site boundaries. In addition to MSW, soils were logged and identified as fine organic deposits representative of the historic marsh deposits.

OM&M incorporates criteria from NYCRR Part 360-2.17(f) including the following:

- Concentrations of explosive gases must not exceed 25% of the LEL in on-site and off-site structures.
- Concentrations of explosive gases must not exceed LEL at the property boundary.

These requirements are being used to guide mandated additional monitoring under Special Conditions and to govern the construction of all future buildings. Several Special Conditions were included within the 2005 Part 360 Permit (Appendix 1) and are incorporated into regular OM&M and will continue moving forward until they are recommended for elimination as part of the permit.

Special Condition 26 includes the monthly monitoring and inspection of gas venting trenches to evaluate the mulch cover material. This will occur each spring following the winter months.

Special Condition 30 includes the monthly groundwater gauging in the perimeter piezometers in order to evaluate the depth to groundwater with respect to the bottom of the gas venting trench. This measurement will continue through the construction process and that period will be considered complete upon the approval of this Construction Certification Report. The monitoring specifies that id groundwater is measured below the bottom of the trench, DPR will implement Special Conditions monitoring. This is further described below in 5.2.2.

Special Conditions 31 includes specific notification and frequency monitoring if groundwater is identified below the bottom of the trench or if LEL of LFG is noted in adjacent monitoring probes.

Special Conditions 32 and 24 include the bi-weekly monitoring of specific perimeter gas wells and on-site monitoring wells. Results of the monitoring will direct more frequent sampling or monitoring and when monitoring may return to the regular schedule.

Special Condition 37 includes bi-weekly monitoring of the off-site gas monitoring network and the results of this monitoring will direct more frequent monitoring or testing.
Additional parameters were added in 2011 by NYSDEC to include hydrogen sulfide, VOCs and carbon monoxide, all were to be reported in parts per million (PPM) and temperature/pressure.

Work that will continue following construction is included in the Post Construction Custodial Care Plan (Appendix 20). That document covers the efforts beyond this report in order to effectively monitor and report on post construction conditions under the Part 360 Permit.
Monitoring during the entire construction period has been performed in accordance with the Landfill Gas Monitoring Plan and the approval of this Report will serve to conclude all construction monitoring.

The most recent and final documentation submitted under this construction effort is the Ferry Point Park Golf Course Irrigation Pond Vent Boxes Monitoring Final Report submitted in May 3, 2015 (Appendix 20). This Report summarized monitoring data and piping/vent/vale configurations around the irrigation pond at the golf course. The overall purpose for the preparation of the Report was to present information to NYSDEC prior to this Closure Certification Report in order to gain approval to close and remove one vent from the golf course area at vent box #5.

The Report describes and presents the configuration of the piping surrounding the irrigation pond and that the removal of this single vent would not have a detrimental effect on the overall LFG system. The entire lop surrounding the pond collects LFG under the conditions that have been evaluated and calculated over the landfill and that appears to be less than one cubic foot per minute. Based on measurements from specific vent box locations within the overall loop, the LEL readings concentrations indicate two possible theories; that methane may be coming from possibly one area and then slowly migrating or spreading to one or two other vent box areas or it may be concentrated in one area and is also being generated at much lower levels from one or two other areas.

In either case, the volume and rate of methane being generated is similar to much of the remainder of the landfill and while this area has actual vent pipes, the remainder of the landfill is direct vented to the atmosphere through the shaping layer. Removal of the single vent at Vent Box 5 will not impact the collection of methane within the underground passive piping but will only eliminate one outlet location. The valve placement at each box allows for multiple vents to be open or combinations of vents to be either open or closed. In addition, sections of the piping around the irrigation pond can be isolated. There is no specific plan other than to remove the single vent from the overall system and this would not impact the passive systems ability to remove methane from the subsurface.

Landfill and off-site gas monitoring was completed as required by the Permit Special Condition X during construction. The IEM accompanied American Environmental Solutions (AES) during landfill gas

monitoring activities at on-site and off-site locations during the course of construction. Monitoring results were transmitted to the NYSDEC by AES after monitoring was completed and monitoring reports were included in the bi-weekly FMRs for the corresponding periods. Landfill gas monitoring results are attached as Appendix C in each the FMRs which are included as Appendix 6. In addition, refer to Appendix 15 for the spreadsheet compilation of all LFG monitoring results to date in tabular and graphic format.

5.2.1 Bi-Weekly

Methane gas monitoring of the entire site was conducted on a bi-weekly basis. Results of these monitoring events were forwarded directly to the NYSDEC once they were available and summarized in each bi-weekly FMR (Appendix 6). In addition, refer to Appendix 15 for the spreadsheet compilation of all LFG monitoring results to date in tabular and graphic format.

A review of the historic field data associated with the perimeter LFG vent trench monitoring program from 2001 to present was conducted to evaluate LFG trends at the Site relative to the perimeter passive LFG control (Ferry Point Park East Post Construction Custodial Care Plan, October 2013, Appendix 20) and showed the following:

- After the installation of the vent trench in 2001, methane levels in the vicinity of the LFG vent trench tended to decrease significantly within a year in most LFG monitoring wells;

- Methane levels remained relatively low and below regulatory limits from 2002 through 2004, except for a few wells that sporadically exceeded the regulatory limit;

- In 2005, the measured methane levels tended to increase, likely due to the installation of more reliable monitoring points (new monitoring points and repaired wells); and

- Results from 2008-2011 generally indicate relatively consistent levels of methane, with certain limited sporadic increases above regulatory limits.

Methane levels increased for several on-site perimeter wells, on-site interior wells and off-site semi-permanent wells located during the construction period between 2010 and 2014, especially for the wells located in the northeast portion and south portions of Ferry Point Park; however, the levels were significantly lower than the beginning of the monitoring program, and the levels decreased to zero by 2015 with the exception of two on-site perimeter wells (MW-14 and MW-15) located in the southern portion of the golf course, three on-site interior monitoring wells (MW-0, MW-4 and MW-19), and three off-site semi-permanent wells located on Buttrick Avenue (10, 12R and 14R). The last recorded monitoring event on April 10, 2015 (Special Conditions Landfill Gas Monitoring Report, April 13, 2015, Appendix 7) reported the following methane concentrations (% by volume) exceeding the site specific action level in eight locations:

- MW-0 - 4.5%

- MW-4R - 50.2%
- MW-19 - 83.8%
- MW-15 - 6.7%
- MW-14 - 33.4%
- Well 14R (Buttrick Avenue) - 1.6%
- Well 12R (Buttrick Avenue) - 28.6%
- Well 10 (Buttrick Avenue) - 10.1%

5.2.2 Special Conditions

In accordance with Special Conditions #34 and #37c of the November 18, 2005, Permit Modification (Appendix 1), if any individual monitoring point has a bi-weekly reading that equaled or exceeded 100% LEL, or three consecutive bi-weekly readings that were greater than 25% LEL, methane monitoring of these points was conducted on a weekly basis. Monitoring returned to the bi-weekly monitoring schedule once three consecutive readings were each less than the 25% LEL action level. Results of these monitoring events were forwarded directly to the NYSDEC once they were available and summarized in each bi-weekly FMR. In addition, refer to Appendix 15 for the spreadsheet compilation of all LFG monitoring results to date in tabular and graphic format.

5.3 Piezometer Monitoring

On a monthly basis, groundwater elevation measurements were taken and recorded in all piezometer locations along the site perimeter vent trench in accordance with Special Condition 28 of the 2014 Permit. Measurements were manually taken using a portable water level meter. The IEM observed piezometer monitoring in the field and groundwater data was submitted to the NYSDEC. Results of these monitoring events were forwarded directly to the NYSDEC once they were available and summarized in each bi-weekly FMR. Piezometer monitoring results were incorporated into the landfill gas monitoring reports attached as Appendix C in each bi-weekly FMR, which are included as Appendix 6.

5.4 Settlement Plate Monitoring

Short term settlement was performed with plates installed throughout the landfill in order to evaluate settlement and compaction during the fill placement and grading. The majority of the short term plates were installed following the importation of significant amounts of fill material when the areas had been brought near to or at final grade. The 2014 NYSDEC Permit Modification (2-6006-00014/00013) Special Condition #6 required short term settlement monitoring to meet those requirements incorporated in the January 2005 Settlement Evaluation and Long Term Monitoring Plan. Short term monitoring was performed in accordance with the early 2005 Plan and as construction progressed and as per Special Condition #6. Short term settlement plates were either removed or monitoring discontinued when long term monitoring plates were installed in accordance with the revised Permit. Long term settlement plates were installed throughout the landfill in areas shown on the Figure titled Ferry Point Golf Course Settlement Plate Locations 4/11/2012 by KS Engineers, P.C. The locations of the long term plates were identified to be in the same specific vicinity of the short term plates.

The overall Program for monitoring settlement began in 2002 with the construction of 7 instrumented test fills and installation of 6 settlement plates that were located across the site. Test fills varied between 10 to 18 ft. in thickness and the specific locations were placed where future settlement would be most critical (e.g. future green areas and where significant thicknesses of fill were necessary). The majority of the settlement plates were located in the eastern portion of the site at a time when most of the fill had been imported in order to begin monitoring on-going settlement for areas that had been filled for a period of 9 months or longer. Initial settlement monitoring was conducted for a period of over 2 years and monitoring results were transmitted to NYSDEC on a bi-weekly frequency.

Settlement recorded following June 2003 was recorded but noted to have been significantly influenced by the importation if fill and the loading that this had on the areas adjacent to the test fills. Initial settlement was noted to have a range between 3 and 23 inches with the greatest variation in the western section. This was believed to be the result of a significant compressible clay layer near the surface. The recorded measurements were compared by Langan to the estimated values that had been calculated and they were found to be comparative. One positive aspect of this initial measurement and comparison showed the site to be in an optimal character for surcharge as a result of placement of larger fill loads for shorter periods of time in order to maximize the settlement as early as possible and minimize post construction settlement that is a critical issue for the sensitive surface of a golf course.

The resulting settlement analysis provided a recommendation for fill placement and long term predicted settlement. This information and comparison to settlement data is critical in monitoring the underground utilities for maintenance and repair. Piping settlement would result in lower carrying capacity and therefore storm lines were designed to be oversized with welded ends to prevent separation. Sanitary lines were also designed with the additional anticipated settlement incorporated into their long term maintenance. Increased slope, HDPE piping and flexible joints were recommended where piping would pass through areas of different fill thicknesses and therefore a differential in overall settlement would be expected to occur. Recommendations for flexible connections capable of withstanding rotation and extension were made for sewer lines exiting structures.

Settlement over the golf course surface was presented following the initial evaluation and recommendations for anticipated settlement were determined to be within the initially anticipated settlement and possibly sooner for areas where more substantial thicknesses of material were placed. Additional influences on long term settlement will be thickness and depth to the compressible clay layer. The variation in settlement was estimated to be between 3 to 15 inches over a 30 year period. Non-uniform settlement is also anticipated over the life of the golf course due primarily to the variable thickness of imported material and could equal up to 6 inches. Slope stability is not anticipated to be adversely impacted as a result of the long term settlement anticipated at the site.

Areas where significant amounts of fill were identified to be placed, such as the area between the irrigation pond and Hole #1 was required to be placed in a more controlled manner in order to allow the pore pressure to be evenly reduced. This method would prevent slope failures caused by buildup of pore

pressure. Placement of fill was specified to be in 2 ft. lifts per week which would allow for dissipation of pore water in the clay layer.

Special Condition #7 of the revised 2014 NYSDEC Permit specified long term settlement requirements and that they would continue to conform to those established in the earlier permit. Locations of the replacement long term settlement plates shown on the 2012 Figure were referenced and approved as part of the 2014 Permit Modification.

Long term settlement monitoring will be performed at the initially 8 recommended settlement monitoring plates located throughout the golf course for a period of 30 years following completion of construction.

The plates are located in variable subsurface conditions but in general have been placed where the greatest concentrations of fill material have been placed in connection with the thickest compressible soil layers. The locations were also chosen to be adjacent to underground utilities such as water and sewer mains and/or adjacent to green areas where differential settlement is most critical.

The date being used as the construction completion is April 1, 2015. This was described in the March 30, 2015 executed letter between NYSDEC and NYCDPR which referenced the Substantial Completion of Construction Certification allowing the golf course to open on April 1, 2015. The letter states that NYSDEC and NYCDPR agree that the April 1, 2015 opening of the golf course constitutes completion of the filling operation on the Site and construction of the earthwork portion of the Project as contemplated under the NYSDEC Permit (No. 2-6006-00014/00013 and 2-6006-00014/00016). As a result of this completion date, monitoring will continue until April 1, 2045 or until a point that NYSDEC authorizes monitoring to cease if it is prior to April 1, 2045.

Long term settlement will be documented as it is referenced in the Post Construction Custodial Care Plan (October 2013). This includes providing NYSDEC with an annual inspection report certified by a licensed NYS professional engineer. The monitoring will document the following information during the timeframes referenced:

1. Beginning within 60 days of the approval of this Engineering Certification Report and continuing for a period of 5 years, the quarterly monitoring results will be summarized and submitted on an annual basis.
2. Immediately following the initial 5 year period and continuing for an additional 5 years (10 years from the date of Engineering Certification Report approval) monitoring will continue on a reduced bi-annual basis and the results will be summarized annually.
3. Immediately following the year 10 bi-annual report summaries, monitoring will be performed and reported on a reduced annual basis. This annual monitoring and reporting will continue for the duration of the 30 year period or for 20 years.
4. Following the initial 5 year quarterly monitoring period, NYCDPR may petition NYSDEC for a decrease in the monitoring frequency or for cessation of monitoring altogether. In the event that NYSDEC approves terminating the monitoring for any monitoring plates, NYCDPR will evaluate the settlement plates for either abandonment or removal. This evaluation will be performed within

the first year following approval of monitoring cessation. The abandonment or removal documentation will be signed and certified by a NYS licensed professional engineer and provided to NYSDEC within the concurrent post closure reporting period after the completion of the work.

Special Conditions 6 and 7 of the 2014 Permit and the recommendations provided in the Settlement Evaluation and Long-Term Monitoring Plan dated January 26, 2005, prepared by Langan Engineering and Environmental Services, Inc. set forth settlement monitoring requirements related to the placement of fill material across the Site. A copy of the Settlement Evaluation and Long Term Monitoring Plan is included in Appendix 20. Settlement plate monitoring was performed on-site in accordance with the Permit. Settlement monitoring reports are attached as Appendix D in each of the FMRs, which are included as Appendix 6. Monitoring was conducted on-site as follows. Results of these monitoring events were forwarded directly to the NYSDEC once they were available and summarized in each bi-weekly FMR.

5.4.1 Short Term

The short-term settlement monitoring program began in December 2002 with the bi-weekly monitoring of seven test fills and six settlement plates located throughout the Site. Test fills consisted of an engineered soil fill ranging from 10 to 18 feet deep, generally located on-site in areas where significant thicknesses of fill were required. Settlement plates consisted of a subsurface plate beneath a casing and a flush-mount monitoring access port, similar to a monitoring well. Settlement plates that were part of the short-term settlement monitoring program were generally located in areas of the Site already at or close to final grade. The Settlement Evaluation and Long-Term Monitoring Plan recommended the following adjustments be made to the monitoring program during construction:

- Test fills that obstructed construction activities should be replaced with a settlement plate to be monitored near the location of the test fill.

- Settlement plates that needed to be moved for construction purposes should be relocated to the same general area and monitored until long-term monitoring points were installed.

Monitoring at short-term monitoring points was discontinued as required due to interference with ongoing construction. In an email correspondence dated May 1, 2012, included in Appendix H of the 2013 Engineering Report (Appendix 20), the NYSDEC informed NYCDPR that these short-term monitoring locations did not need to be replaced as long as construction at the Site progressed. As construction was concluded in each area of the Site, long-term monitoring plates were to be installed as described below. Short-term settlement monitoring continued to be performed bi-weekly at the Site until October 14, 2013. The design of the long term settlement monitoring points is presented in a January 26, 2005 *Settlement Evaluation and Long-Term Monitoring Plan* prepared by Langan Engineering and Environmental Services, Inc. and outlined in a May 21, 2014 *DEC Permit (DEC No. 2-6006-00014-00013 (SW) & DEC No. 2-6006-00014-00016 (TW))* prepared by New York State Department of Environmental Conservation. These documents outline the long term settlement plate monitoring locations, detail and required monitoring intervals. Monitoring of final settlement plates began on October 30, 2013 and continued throughout the remainder of construction. As previously stated, the monitoring and reporting schedule will be

modified as the post construction period extends into the future. This has been included in the Post Construction Custodial Care Plan (October 2013).

The following summarizes the efforts with respect to conformance to project design documents:

The approved May 21, 2014 *DEC Permit (DEC No. 2-6006-00014-00013 (SW) & DEC No. 2-6006-00014-00016 (TW))* prepared by NYSDEC refers to Appendix H of an October 15, 2013 *Supplemental Engineering Report* for a long term monitoring location plan. Appendix H of the permit which is included as Appendix 20 here, references and includes the April 11, 2012 *Ferry Point Golf Course Settlement Plate Locations* plan prepared by KS Engineers, P.C.

The February 20, 2014 *Ferry Point Golf Course as Built Drawing* prepared by Contractors Line & Grade South, LLC shows the as-built locations of the long term settlement monitoring plates in conformance with the above referenced April 11, 2012 KS Engineers plan. An additional monitoring point between golf course Hole 6 and Hole 7 was added and approved in the May 1, 2012 *Re: Settlement Plates Email* prepared by NYSDEC.

A January 26, 2005 Settlement Evaluation and Long-Term Monitoring Plan prepared by Langan Engineering and Environmental Services, Inc. states that:

> *"These settlement points will be utilized to determine future settlements during the golf course operation. They should be installed once filling operations are completed to within 1 foot of final grades or in other words, during placement of soil cover materials. After their installation, monitoring of the settlement points should be performed once every other month until the construction is complete. Subsequent monitoring should be performed once every 3 months during the first year of golf park operation and once every 6 months for the second year."*

The description above is a deviation from the Post Construction Custodial Care Plan where quarterly monitoring and annual summary reporting will be performed for an initial period of 5 years followed by an opportunity to evaluate and proposed changes. The frequency would without any additional recommendation be reduced to semi-annually following 5 years. This reference accepts a switch to semi-annual monitoring and annual reporting following the first year. This is the only approved change in the settlement monitoring plan outside of the approved 2013 document.

The data from the November 12, 2010 through October 31, 2014 *Fill Management Report No. 242 through No. 346* prepared by Woodard & Curran indicate that settlement plate monitoring was conducted every two weeks in conformance with the minimum requirements of the above referenced monitoring plan.

Monitoring of final settlement plates began on October 30, 2013 and continued throughout the remainder of construction. Results of the monitoring are available in the November 12, 2010 through October 31, 2014 *Fill Management Report No. 242 through No. 346* prepared by Woodard & Curran.

The November 12, 2010 through October 31, 2014 *Fill Management Report No. 242 through No. 346* prepared by Woodard & Curran do not document any non-conformance issues regarding the construction of the long-term settlement monitoring locations. A settlement monitoring plate detail is provided in the January 26, 2005 *Settlement Evaluation and Long-Term Monitoring Plan* prepared by Langan Engineering and Environmental Services, Inc. does not identify any deviations from the location plan and all long term settlement plates installed were specifically located as replacements for short term plates installed earlier during construction

5.4.2 Long Term

The design of the long term settlement monitoring points is presented in a January 26, 2005 *Settlement Evaluation and Long-Term Monitoring Plan* prepared by Langan Engineering and Environmental Services, Inc. and outlined in a May 21, 2014 *DEC Permit (DEC No. 2-6006-00014-00013 (SW) & DEC No. 2-6006-00014-00016 (TW))* prepared by New York State Department of Environmental Conservation. These documents outline the long term settlement plate monitoring locations, detail and required monitoring intervals. Monitoring of final settlement plates began on October 30, 2013 and continued throughout the remainder of construction. As previously stated, the monitoring and reporting schedule will be modified as the post construction period extends into the future. This has been included in the Post Construction Custodial Care Plan (October 2013).

The following summarizes the efforts with respect to conformance to project design documents:

The approved h, 2014 *DEC Permit (DEC No. 2-6006-00014-00013 (SW) & DEC No. 2-6006-00014-00016 (TW))* prepared by NYSDEC refers to Appendix H of an October 15, 2013 *Supplemental Engineering Report* for a long term monitoring location plan. Appendix H of the permit which is included as Appendix 20 here, references and includes the April 11, 2012 *Ferry Point Golf Course Settlement Plate Locations* plan prepared by KS Engineers, P.C

The February 20, 2014 *Ferry Point Golf Course as Built Drawing* prepared by Contractors Line & Grade South, LLC shows the as-built locations of the long term settlement monitoring plates in conformance with the above referenced April 11, 2012 KS Engineers plan. An additional monitoring point between golf course Hole 6 and Hole 7 was added and approved in the May 1, 2012 *Re: Settlement Plates Email* prepared by NYSDEC.

A January 26, 2005 Settlement Evaluation and Long-Term Monitoring Plan prepared by Langan Engineering and Environmental Services, Inc. states that:

> *"These settlement points will be utilized to determine future settlements during the golf course operation. They should be installed once filling operations are completed to within 1 foot of final grades or in other words, during placement of soil cover materials. After their installation, monitoring of the settlement points should be performed once every other month until the construction is complete. Subsequent monitoring should be performed once every 3 months during the first year of golf park operation and once every 6 months for the second year."*

The description above is a deviation from the Post Construction Custodial Care Plan where quarterly monitoring and annual summary reporting will be performed for an initial period of 5 years followed by an opportunity to evaluate and proposed changes. The frequency would without any additional recommendation be reduced to semi-annually following 5 years. This reference accepts a switch to semi-annual monitoring and annual reporting following the first year. This is the only approved change in the settlement monitoring plan outside of the approved 2013 document.

The data from the November 12, 2010 through October 31, 2014 *Fill Management Report No. 242 through No. 346* prepared by Woodard & Curran indicate that settlement plate monitoring was conducted every two weeks in conformance with the minimum requirements of the above referenced monitoring plan.

Monitoring of final settlement plates began on October 30, 2013 and continued throughout the remainder of construction. Results of the monitoring are available in the November 12, 2010 through October 31, 2014 *Fill Management Report No. 242 through No. 346* prepared by Woodard & Curran.

The November 12, 2010 through October 31, 2014 *Fill Management Report No. 242 through No. 346* prepared by Woodard & Curran do not document any non-conformance issues regarding the construction of the long-term settlement monitoring locations. A settlement monitoring plate detail is provided in the January 26, 2005 *Settlement Evaluation and Long-Term Monitoring Plan* prepared by Langan Engineering and Environmental Services, Inc. does not identify any deviations from the location plan and all long term settlement plates installed were specifically located as replacements for short term plates installed earlier during construction

The long term settlement monitoring was performed at the locations shown on the revised Settlement Plate Location Plan and a sketch that includes an additional monitoring point between golf course Hole 6 and Hole 7 included in Appendix H of the Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East Bronx, NY dated May 31, 2012 (Revised August 31, 2012, October 15, 2013) as described in Appendix I of that report. These locations were approved by NYSDEC in an email dated May 1, 2012. The long-term settlement monitoring points were installed as construction was completed in each area of the Site. Upon installation, the long-term settlement plates were monitored in accordance with the criteria set forth in Special Condition 7 of the Permit.

As a component of this Report section the following list of documents were used:

- A January 26, 2005 *Settlement Evaluation and Long-Term Monitoring Plan* prepared by Langan Engineering and Environmental Services, Inc.;
- A May 21, 2014 *DEC Permit (DEC No. 2-6006-00014-00013 (SW) & DEC No. 2-6006-00014-00016 (TW))* prepared by New York State Department of Environmental Conservation;
- A April 11, 2012 *Ferry Point Golf Course Settlement Plate Locations* plan prepared by KS Engineers, P.C.;
- A November 12, 2010 through October 31, 2014 *Fill Management Report No. 242 through No. 346* prepared by Woodard & Curran;
- A undated *additional settlement plate sketch;*
- A February 20, 2014 *Ferry Point Golf Course as Built Drawing* prepared by Contractors Line & Grade

South, LLC; and,

- A May 1, 2012 *Re: Settlement Plates Email* prepared by NYSDEC.

The long term settlement monitoring was performed at the locations shown on the revised Settlement Plate Location Plan and a sketch that includes an additional monitoring point between golf course Hole 6 and Hole 7 included in Appendix H of the 2013 Engineering Report and as described in Appendix I of that report. These locations were approved by NYSDEC in an email dated May 1, 2012, which is included in Appendix H of the 2013 Engineering Report (Appendix 20). The long-term settlement monitoring points were installed as construction was completed in each area of the Site. Upon installation, the long-term settlement plates were monitored in accordance with the criteria set forth in Special Condition 7 of the 2014 Permit.

5.5 Groundwater Monitoring

The overall setting of the Ferry Point Park Site with respect to the groundwater regime can be described as an area covering approximately 220 acres bounded along the waters of the East River to the south, Saint Raymond's Cemetery to the north, Balcom and Emerson Avenues to the east and the Bronx-Whitestone Bridge and ramp to the west. The entire site was a former operating municipal solid waste landfill that ended accepting fill material in the 1960's. The overall landfill footprint extended beyond the boundary of the Ferry point Park Site. The period of operation predated the existence of current Solid Waste Facility design and construction requirements and therefore, no groundwater assessment or survey was performed for the construction or during operations of the landfill.

A review of aerial photography was conducted at the time this report was being prepared. The photographs are available on the New York City public website and include those showing the overall site and surrounding area from a period beginning in 1924 and up until 2012. The earliest photo of 1924 shows nearly the entire footprint of the Ferry point Park Site was formerly open water, existing as a large bay of the East River. A review of the 1951 aerial photograph of the same scale shows the northwest portion of the landfill site was filled with what appears to be very light colored fill material. The photo shows filling operations to be expanding from the northwest corner outward and based upon the extreme contrast in color of existing land and fill material to be sand material possibly sourced from in-water dredge operations. This practice was performed in many other areas of the City at this time when harbor deepening and widening took place from 1940 onward. There were no photos between 1951 and 1996 and so there was no further photographic record in this collection to show the progression of landfilling. This period of filling (pre-1951) predated the DSNY recordkeeping and existence and there would not be any expected record of the placement of this fill in Sanitation Department documents. The existence of these photos is important to present the hydrogeologic origin of site groundwater for comparison to that of other groundwater. This history places the entire Site at the base of a larger drainage basin and in direct connection with the East River system of salt and brackish waters. Using this as the basis for the hydrogeologic model, shallow groundwater at the Site would now be considered to be part of the upland groundwater table as a result of the filling and extension of the shoreline into the river. Groundwater

within the fill material could be expected to be tidally influenced but the inland limit of this influence would be dictated by the fill material, its composition and compaction.

As part of the Volume #1 Application for Modification to the Solid Waste Management Facility Permit for Construction of the Ferry Point Park Recreation Facility Engineering Report (June 30, 2005; Appendix 20), a specific groundwater impact assessment was presented. This was based on a qualitative assemblage of data and information from other related studies but not specifically from a focused groundwater evaluation.
A May 31, 2005 letter on the Influence of Fill Placement on Groundwater prepared by Langan Engineering assessed the impact of fill material on the groundwater (found in Appendix VII of Volume #1 Application for Modification to the Solid Waste Management for Construction of Ferry Point Park Recreation Facility Engineering Report, June 30, 2005, Appendix 20). This was based upon information and conditions gathered during geotechnical evaluations and site history knowledge. The findings presented at that time indicated the development of the Ferry Point Park Site as a golf course would not further impact or change groundwater flow patterns or conditions and would therefore not further impact the East River beyond the existing conditions.

Much of the description presented in the Langan assessment focused on the site development and the addition of engineering controls that would become part of the site. These included: paved path and parking areas, significant stormwater collection systems, site grading to control flow, control devices and systems as well as importation and capping of the entire site with a varied but significant layer of clean cover materials that would all have a positive impact and reduce the amount of surface water filtering through the landfill and into the groundwater. The overall completed site development in the 2005 Engineering Report included a total of 26 acres of impervious area and collection of stormwater in detention facilities (Appendix 20).

A total of 26 piezometers were installed to monitor shallow groundwater along and immediately adjacent to the Landfill Gas passive trench. These piezometers, while used for depth to groundwater measurements are not incorporated into the groundwater evaluation as they were specifically used to assist in the design and monitoring of the LFG vent trench. The principal purpose for the piezometers and their association with the LFG trench was to monitor the level of groundwater to determine if groundwater levels went below the LFG passive recovery trench. Groundwater elevation measurements collected from the piezometer locations along the site perimeter vent trench (Special Condition 28) are addressed in section 5.3 (Piezometer Monitoring) of this report. Section 5.5 addresses the baseline groundwater monitoring requirements established in 2010.

The NYSDEC Permit issued on November 18, 2005 for the construction of the 222 acre golf course did not include a specific requirement for a groundwater monitoring plan outside of the singular focus of monitoring groundwater elevation for landfill gas control in the trenches (Appendix 1). In 2010, NYSDEC requested additional information regarding groundwater conditions and if any new, relevant information was available to verify the conclusions of the geotechnical portion of the 2005 Engineering Report (June

30, 2005, Appendix 20). As no information was available, recommendations were made in 2011 by NYSDEC for the installation of a monitoring well network.

A Technical Memorandum was prepared by Ecology & Environment Engineering, P.C. (E&E) outlining the field procedures for establishing reference point groundwater characterization methods including the installation, development, sampling, well gauging and slug testing of 11 new monitoring wells at the Site (Technical Memorandum re: Field Sampling Procedures for Ferry Point Site – Reference Groundwater Characterization, September 19, 2011, Appendix 20). At the time of monitoring well installation (February 2012), construction activities were well underway and estimated to be 80% complete. The baseline characterization was expected to capture the potential measurable impacts to groundwater. Future monitoring is expected to capture the impacts representing a more complete construction condition

The well installation program included consistent and standard well installation and construction methods, well development, baseline sampling, water level survey and aquifer testing. A figure showing the well construction details and installation elevations and locations is presented as S-H21 dated 11/8/2011. Well construction methods included the installation of shallow 2 inch diameter PVC wells with 10 ft. of slotted screen penetrating into the upper surface of the water table and standard construction finishing. All of the wells were developed and monitored using consistent criteria (turbidity, pH, conductivity and temperature), Table 1 and 2, respectively, Fieldwork Summary Report (as part of Groundwater Characterization) (May 31, 2012; Appendix 20). Each of the newly installed wells was then sampled to establish the initial baseline conditions and each was surveyed to determine groundwater level and flow direction conditions. Basic site hydrogeological information was also characterized during this effort, including direction of flow, groundwater elevation gradients, and flow velocity. Based on the initial measurements, flow direction was found to be relatively consistent in that groundwater flow was in the south-southeasterly direction toward the East River (Figure 1, Fieldwork Summary Report, May 31, 2012, Appendix 20). There was one important item noted from the initial conditions assessment and this was the lack of measureable tidal influence on any of the monitoring wells.

One soil sample was collected from each borehole from the shaping material zone with an additional quality assurance sample collected from MW-02. The soils were sampled for synthetic precipitate leaching procedure (SPLP) semi-volatile organic compounds (SVOCs), PCB/pesticides, metals, and cyanide. Seven metals and one SVOC (phenol) were detected in the 13 samples sent to the laboratory
SPLP analysis. For comparison purposes, these results are shown along with the NYSDEC Technical and Operational Guidance Standard 1.1.1, for Class GA groundwater. Four metals, and one SVOC (phenol) were detected with concentrations higher than the comparison standard (Table 6, Fieldwork Summary Report, May 31, 2012, Appendix 20).

Slug testing was performed on each of the wells to evaluate hydraulic conductivity and while this is not a critical measurement for wells installed within landfill material, it is useful in evaluating the consistency of all wells in the system. The results of the slug testing presented a fairly uniform range of hydraulic conductivities within the landfill material.

The results of the baseline groundwater analysis showed that with the exception of metals, the analytical results were in line with a landfill of this type and age. All metal detections were higher than the NYSDEC Class GA groundwater standard, which was used for comparison purposes. It is noted that these samples had high turbidities (e.g., greater than 1000 NTU) and this likely impacted the metals test results. Phenolics and ammonia leachate parameters were also detected higher than the comparison standard (Table 7, Fieldwork Summary Report, May 31, 2012, Appendix 20). As a result, NYSDEC requested that both filtered and unfiltered samples be collected. If the results were consistent, subsequent events would be completed using filtered samples only for the inorganic parameters (May 8, 2012 Ferry Point Groundwater Characterization Conference Call, May 9, 2012, Appendix 20). Filtered and unfiltered groundwater samples were collected during subsequent events.

NYSDEC also provided DPR with requirements for future groundwater monitoring (e.g., Post Construction Monitoring) in their FPP Groundwater Characterization Monitoring Objective on May 8, 2012 (Appendix 20). The objective included the following requirements: reference point/background characterization in three quarterly rounds of sampling for all parameters listed in 6 NYCRR Subpart 360-2.11 baseline parameters. Following completion of the characterization sampling, baseline sampling would continue on a biannual basis after the initial three quarterly rounds until the FPP landfill end use (golf course) is operational. Table 5-X below summarizes the reference point/background characterization events.

Table 5-1. Summary of Reference Point/Background Characterization Events

Sampling Frequency	Wells Sampled	Status
Quarterly 1	GMW-1 – GWM-11	Completed February 2012
Quarterly 2	GMW-1 – GWM-11	Completed May 2012
Quarterly 3	GMW-1 – GWM-11	Completed August 2012
Bi-Annual	GMW-1 -GMW-11	Completed March 2013
Bi-Annual	GMW-1, GMW-2, GMW-3, GMW-4, GMW-5, GMW-6, GMW-7, GMW-8, and GMW-10	Completed March 2014
Bi-Annual	GMW-2, GMW-3, GMW-4, GMW-5, GMW-6, GMW-7 and GMW-8	June 20, 2014
	GMW-1, GMW-7, GMW-10, and GMW-11	July 31, 2014

The three quarterly sample events were completed without modification. The Bi-Annual events were modified following the March 2013 event due to construction of the golf course which limited access to the Site. The modifications include the following:

- No September 2013 Bi-Annual sample event.
- No sample was collected from GMW-9 (well was dry) and GMW-11 (access) during the March 2014 sample event.
- The second biannual sample event for 2014 was split into two events completed in June and July. GMW-9 was not sampled. Groundwater samples were collected from the site on July 22, 2014; however the samples were not analyzed due to compliance issues with the Standard Operating Procedures.

Table 5-1 presents the overall groundwater and analysis date for monitoring wells GMW-1 through GMW-11 covering the period between February 2012 through July 2014 and are consistent with the baseline sample events: metals, phenolics and ammonia compounds, isolated and sporadic VOCs (except for chlorobenzene detected in well GMW-01 and GMW-06 during multiple events) and SVOCs (primarily PAHs) were detected above the NYSDEC Technical and Operational Guidance Class GA Groundwater Criteria. The Class GA Groundwater Criteria were used for screening purposes as groundwater is not used for potable resources. The results of the filtered (dissolved) metals samples are significantly lower than the non-filtered metals samples and in most cases exceedances of non-filtered samples are non-detect or below the Class GA Groundwater Criteria in the filtered samples.

In accordance with the Post Construction Custodial Care Plan (Appendix 20), groundwater monitoring will be performed at all 11 permanent monitoring wells throughout the golf course. Approval of this Closure Certification Report signifies the commencement of operations at the golf course beginning the period of post construction monitoring. Sampling will be performed on an annual basis with collection and analysis of groundwater for those constituents listed in 6 NYCRR Part 360-2.11 routine parameters. This sampling information and data will be summarized and included with the overall annual facility monitoring and inspection report. Monitoring and reporting will begin 60 days following the approval of this closure report and will continue for a period of three years.

Following the completion of the initial 3 year post-operations monitoring, DPR may submit documentation to NYSDEC to request a reduction in sampling or complete cessation of sampling. The initial 3 year period will form the data set to be used in the event a reduction or change in monitoring is requested. The goal of the monitoring will be to provide data showing if the park adversely impacts water quality with respect to leachate quality or quantity and to compare the 2013 permit performance criteria to existing and current conditions.

Should a request for modification or cessation be approved, monitoring wells will be assessed for abandonment or removal within a 1 year period following the ending point of monitoring. Closure documentation will be provided by a New York Professional Engineer during the same annual reporting period.

Upon commencement of operation of the golf course, the frequency of groundwater monitoring changes to annual with samples being analyzed for all constituents listed in 6 NYCRR Subpart Part 360-

2.11 routine parameters and parameters of concern identified during the reference point characterization period. The golf course began operation in April 2015 and post construction monitoring will be initiated in September 2015. Post construction groundwater monitoring is discussed in detail in Section 5.7.4.

Design documents for the groundwater monitoring wells are included in Appendix G.2 of the 2013 Engineering Report (Appendix 20). An initial sampling event was completed in February 2012 and included the testing activities described below.

Groundwater monitoring results are attached in Appendix 15.

5.6 Deed Restriction

Special Condition 32 of the 2014 Permit requires that the Permittee executes and files a NYSDEC approved deed restriction, which shall run with the land in perpetuity, and shall recite and require compliance with the Part 360 Permit's provisions as regards to the custodial care requirements described in Appendix I of the 2013 Engineering Report (Appendix 20).

NYCDPR is in the process of reviewing the language in Attachment A transmitted with the 2014 Permit, and will use this language as the model for the deed restriction. NYCDPR will contact the NYSDEC in the event NYCDPR has any proposed additions, deletions, and/or revisions to the general text of Attachment A.

5.7 Post Construction Monitoring

Post construction monitoring of the Golf Course, Community Park, and Waterfront Park is the responsibility of NYCDPR and will be completed as required by the Permit. Post closure monitoring will be completed in accordance with the plans set forth in Ferry Point Park East Post Construction Custodial Care Plan dated October 2013 included as Appendix I of the 2013 Engineering Report (Appendix 20).

The following table includes each monitoring component, the frequency, and the duration of monitoring dependent upon the cessation of activity:

Component	Frequency	Duration
Final Cover System	Quarterly	5 years
LFG System	Quarterly	5 years
Infrastructure	Bi-Annually Annually	10 years 15 years
Groundwater Monitoring	Annually	3 years*
Long Term Settlement Plates	Quarterly	5 years*
Parking Lot Asphalt Cover (April & October)	Bi-Annually Annually	5 years* 20 years*

*Denotes Dependent on Cessation of Activity

NYCDPR will not be performing post-construction monitoring for the Waterfront Park portion of the Site until construction is complete and approved, and will restrict public access until such time.

NYCDPR is in the process of engaging a full service environmental firm to conduct the post construction monitoring requirements and will complete the post construction monitoring required to comply with the Permit in accordance with the Post Construction Custodial Care Plan and as follows.

5.7.1 Golf Course Operations

The Site will be operated as part of the New York City Department of Parks and Recreation system. The Community Park and the Waterfront Park will be operated and maintained by the NYCDPR Borough of the Bronx Operations and Maintenance division or an appointed representative. NYCDPR has entered into a contract with a golf course concessionaire, Trump Ferry Point LLC to implement post construction care necessary to maintain the Golf Course for operational purposes. Golf Course maintenance and operations exclude those requirements specific to post construction monitoring and maintenance of existing environmental conditions and infrastructure as installed by NYCDPR and specifically defined in this report as being landfill gas systems, groundwater monitoring, and long-term settlement plates.

5.7.2 Landfill Gas Monitoring

NYCDPR will implement post construction monitoring necessary to fulfill the requirements of the Post Construction Custodial Care Plan for landfill gas monitoring. The landfill gas monitoring program includes monitoring for on-site and off-site landfill gas wells, piezometers, passive vent trench, passive vents, sub-slab depressurization systems, and Irrigation Lake venting system. Any necessary repairs or maintenance required as a result of inspection and monitoring activities will be the responsibility of NYCDPR or an appointed representative.

The Site's landfill gas management system will be inspected and monitored in accordance with the Operations, Monitoring, & Maintenance ("OM&M") actions presented in Section 6 of the Landfill Gas Management Plan ("LFGMP") located in Appendix F.1 of the 2013 Engineering Report (Appendix 20).

Monitoring and inspection will commence concurrently within 60 days of the approval of this construction certification report unless otherwise noted within the OM&M plan. Adjustments to monitoring frequencies will be requested of NYSDEC upon meeting the performance criteria thresholds identified in Section 6.3.4.2 of the LFGMP. NYCDPR will submit a request with supporting documentation to NYSDEC 30 days prior to the desired date of the proposed change in monitoring. NYCDPR will not change monitoring frequencies until the request has been approved.

5.7.3 Long Term Settlement Monitoring

NYCDPR will implement post construction monitoring necessary to fulfill the requirements of the Post Construction Custodial Care Plan for nine settlement monitoring plates on the Golf Course.

Monitoring will commence concurrently within 60 days of the approval of this construction certification report for a period of three years. Based on the results of the initial five years of monitoring, NYCDPR may

petition for decreased monitoring or a cessation in monitoring frequencies. NYCDPR will not change monitoring frequencies until the request has been approved.

5.7.4 Groundwater Characterization Monitoring

NYCDPR will implement post construction monitoring to fulfill the requirements of the Ferry Point Park East Post Construction Custodial Care Plan (October 2013). Groundwater monitoring will be performed at the eleven well locations located within the golf course.

Upon commencement of operation of the golf course (April 2015), groundwater sampling will take place annually with samples being analyzed for constituents listed in 6 NYCRR Subpart Part 360-2.11 routine parameters. The results of the groundwater sampling will be presented in a groundwater monitoring report and a summary will be submitted to NYSDEC as a part of the annual monitoring and inspection report. Monitoring and inspection will commence concurrently within 60 days of the approval of the construction certification report for a period of three years with the goal of demonstrating whether operation of the park adversely impacts on water quality with respect to leachate quality or quantity, and whether operation of the park meets the performance criteria established in the Permit.

Post Closure monitoring is anticipated to be conducted on the following schedule:

Sampling Frequency	Requirement	Wells Sampled	Status
Annual - Year 1	Post-Construction Monitoring	GMW-1 – GWM-11	Anticipated September 2015
Annual - Year 2	Post-Construction Monitoring	GMW-1 – GWM-11	Anticipated September 2016
Annual Year 3	Post-Construction Monitoring	GMW-1 – GWM-11	Anticipated September 2017

Upon completion of 3 years of post-operation annual routine groundwater sampling, DPR may submit documentation to NYSDEC in furtherance of a request to reduce or cease groundwater sampling at the Ferry Point Park golf course (Ferry Point Park East Post Construction Custodial Care Plan, October 2013). The Groundwater monitoring and sampling program will cease either at the three year completion or ten years from the date of the initial groundwater sampling event. When the request for cessation is accepted, the groundwater monitoring wells will be evaluated for either abandonment or removal within the first year of the cessation of monitoring. The abandonment or removal documentation, signed and

certified by a licensed NYS Engineer will be provided to DEC within the concurrent post closure reporting period after the completion of the work.

Monitoring and inspection will commence concurrently within 60 days of the approval of this construction certification report for a period of three years. Upon completion of three years of post-operation annual routine groundwater sampling NYCDPR may submit documentation to the NYSDEC in furtherance of a request to reduce or cease groundwater sampling at the golf course. NYCDPR agrees to perform operational groundwater sampling, data analysis and reporting for a minimum of three years after construction, with the goal of demonstrating whether operation of the park adversely impacts water quality with respect to leachate quality or quantity, and whether operation of the park meets the performance criteria established in the Permit. NYCDPR will not change monitoring frequencies until the request has been approved.

5.7.5 Final Cover System

The integrity of the final cover system will be inspected routinely by NYCDPR, or their duly appointed representative, to fulfill the requirements of the Post Construction Custodial Care Plan. Inspections and maintenance will be completed in association with the Maintenance Guidelines for Trump Golf Links at Ferry Point Park included in Appendix I of the 2013 Engineering Report (Appendix 20).

Monitoring and inspection will commence within 60 days of the submittal of this construction certification report and then undertaken annually within 30 days of the submittal of the initial report. NYCDPR agrees to a rolling five-year plan, whereby NYCDPR may petition to modify or terminate the final cover inspection requirements by demonstrating that the integrity of the final cover system has been maintained in accordance with performance criteria established in the Permit.

5.7.6 Parking Lot Asphalt Cover (Consent Order)

During 2010, fill material from a JFK Airport source site was brought on-site and placed in seven different stockpiles. The material was believed to be in conformance with permit conditions. However, the material was found to be in violation of 2005 Permit Special Conditions 1, 9, and 16, during NYSDEC and IEM inspections. On January 10, 2011, NYCDPR signed an Administrative Order on Consent (Consent Order), Case No. R2-20100521-172, related to this fill material, which was used to construct the base of the clubhouse and maintenance facility parking lots.

Specific requirements within the Consent Order as they pertain to post construction operations are as follows:

From Consent Order No R2-20100521-172: “Attachment “A” Proposed Handling of Ferry Point Park Soil Stockpile, Item 6, Once the asphalt top course is installed, the asphalt surfaces of the clubhouse and maintenance facility parking lots will be inspected during April and October every year by a licensed professional engineer (“engineer”) who is registered to practice in New York State. Within thirty days (30) days of such inspections, the engineer will submit to the Department a stamped and certified written detail report, including photo documentation, regarding the condition of the asphalt surfaces and their

adequacy, including photo documentation, regarding the condition of the asphalt surfaces and their adequacy to effectively function as covers. A description of any needed repairs will be included in the engineer's report.

Item 7, any repairs deemed necessary by the engineer must be completed by New York City Department of Parks and Recreation ("NYC Parks") within fifteen (15) days of the notification by the Department to NYCDPR to begin such repairs. A certification, including supporting written and photo documentation must be submitted by NYC Parks within fifteen (15) days after completion of repairs."

6 Summary

Construction activity at the Site began in July 2000 and concluded in July 2014 with physical completion of the Golf Course. Although the Golf Course construction is complete, some incidental work continues to occur at the Site associated with specific improvements necessary for golf course operations by the golf course concessionaire. Construction activity included clearing and grubbing, excavation, grading, importation of fill material, construction of the Community Park and Golf Course and associated appurtenances, installation of site utilities and infrastructure, installation of plantings, and installation of asphalt parking lot. A representative of the NYCDPR was present during all construction activities. To the best of our knowledge, a representative of the IEM was present during all earth moving and soil importation activities. For this project, fill importation followed the Permit requirements and resulted in a large scale earthwork fill conducted in general accordance with NYSDEC requirements as documented in the daily, bi-weekly, and quarterly reports and as summarized herein.

7 Certification

Certification Statement

I, Robert Iaropoli, PE, LS, an employee of the New York City Department of Parks and Recreation, exercising independent judgment and discretion do hereby certify that this Final Construction Certification Report was prepared under my direction and supervision. This Final Construction Certification Report was prepared in accordance with the NYSDEC requirements in 6 NYCRR Part 360, the current Part 360 Permit and approved Part 360 Permit Modification documents. The information contained herein is based upon: 1) Work which I have personally inspected both during and after construction from November 2012 to date; 2) Information provided to me by those directly employed by or under contract with the New York City Parks and Recreation and the New York City Department of Design and Construction as construction project managers;3) Design Consultants; 4) Contractors responsible for construction pursuant to their contracts except as indicated; and 5) third parties, such as manufactures, suppliers, etc., whose materials have not been personally verified by me for accuracy and/or adequacy but believe them to be true and accurate[4].

STATE OF NEW YORK ★ ROBERT F. IAROPOLI ★ 093008 LICENSED PROFESSIONAL ENGINEER

Oct. 19th 2015

Robert Iaropoli, PE, LS

Date

New York City Department of Parks and Recreation

[4] Certification means a statement of professional opinion based upon investigation, analysis, knowledge and belief that is stated to be true and accurate. 6 NYCRR Part 360-1.2(b) 24.

8 Delineation Page

Delineation Page

Construction Certification Report
Ferry Point Park Golf Course and Community Park

The drawings, analysis and certification of the fill operation performed by the Independent Environmental Monitor, Woodard & Curran, 709 Westchester Avenue - Suite L2, White Plains, NY 10604 incorporated in this Construction Certification Report have not been verified.

E-10

Bally's Bronx
Final Construction Certification Report:
Subslab Depressurization System and Gas Line Installation
Prepared by: Maser Consulting P.A.

LANGAN

Engineers Planners Surveyors Landscape Architects Environmental Scientists

MASER CONSULTING P. A.

Final Construction Certification Report
Subslab Depressurization System & Gas Line Installation
NYSDEC Permit #2-6006-00014 / 00013 (Solid Waste)

Trump Ferry Point Golf Links Permanent Clubhouse
500 Hutchinson River Parkway
Block 5622, Lot 1
Bronx, New York

November 26, 2019

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EXECUTIVE SUMMARY

Maser Consulting P.A. (Maser Consulting), on behalf of The Trump Organization, has prepared this Certification Report for the construction of the permanent Clubhouse at the Trump Ferry Point Golf Links located at 500 Hutchinson River Parkway, Bronx, New York. This report has been prepared pursuant to 6 NYCRR Part 360 of the New York State Solid Waste Management Program and the 2013 Ferry Point Park East Post Construction Custodial Care Plan. This report also includes a summary of a supplemental project to install a new gas main as part of the Clubhouse Construction project.

Acting as the Independent Environmental Monitor (IEM), Maser Consulting witnessed, recorded and confirmed construction of the new Trump Links Clubhouse, including the installation of support pilings, importation of suitable materials used for cover; the application, installation and testing of the Liquid Boot® Vapor Barrier System and the associated Sub-slab Depressurization System (SSDS); and the installation, calibration and testing of the interior Methane Detection System. For each construction and testing component, Maser Consulting confirms compliance with the Permits, plans and specifications of the project. Minor deviations to the plans and specifications are noted in this report and in the As-Built documents contained herein. Minor deviations to the specifications were the result of two main issues: the need to relocate system components to avoid conflicts and interferences with utilities and appurtenances; and the substitution of the materials of construction that were equivalent or superior to the original specifications.

The IEM also monitored, tested and confirmed that soil materials imported for the new Clubhouse construction were derived from pre-approved sources. The IEM conducted periodic surveillance of trucks being loaded at the approved facilities and transported to the Construction Site. For material imports, the IEM visually evaluated loads and scanned loads with direct reading instruments for signs of contamination. Only those loads meeting project permit and specifications standards were permitted to be unloaded at the site.

At times when imported soil materials had to be stockpiled on-site, the IEM took steps to ensure that a controlled staging area was secured. The staging area was established in the parking lot to the west of the new Clubhouse site. The IEM also took steps to ensure that the stockpile was properly covered to prevent erosion by wind and water, and that catch basins in the parking lot were properly protected to ensure that sediments would not enter the storm water system. Weekly erosion control inspections were conducted by the IEM in accordance with NYSDEC's Construction Site Management Program. The IEM immediately communicated deficiencies in the erosion control features to the General Contractor (JCS) such that immediate mitigative action could be taken.

Maser Consulting also acted as the IEM for a supplemental project associated with the new Clubhouse construction. The supplemental project consisted of the installation of an approximately 5,500-foot long, 6-inch diameter gas pipeline installation. The new gas supply line was deemed necessary to provide heating, ventilation, air conditioning and other utility service to the new Clubhouse. The gas pipeline was connected to a Consolidated Edison main located north of the clubhouse along Schley Avenue. The pipeline route generally traverses the western property line before turning east toward the new clubhouse in the vicinity of the Clubhouse parking lot. As IEM for this supplemental project, Maser Consulting witnessed, recorded and confirmed that the gas pipeline installation was conducted in accordance and incompliance with the project permits, plans and specifications.

Similar to the Clubhouse construction project, cover material importation was required for the gas main installation project. The IEM took appropriate measures to ensure that the source material was inspected and tested. Soil quality analytical results have been included within this report. Analyzed permit parameters were found to be acceptable. The IEM also visually assessed and field screened each load to ensure that the quality of the material met project permit requirements and project plans and specifications.

FINAL CONSTRUCTION CERTIFICATION REPORT
TRUMP FERRY POINT GOLF LINKS PERMANENT CLUBHOUSE
SUBSLAB DEPRESSURIZATION SYSTEM & GAS LINE INSTALLATION

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I. INTRODUCTION

A. Purpose

This Final Construction Certification Report for the Trump Ferry Point Golf Links clubhouse is submitted to the New York State Department of Environmental Conservation (NYSDEC) and the New York City Department of Parks & Recreation (NYCDPR) upon completion of the construction of a new clubhouse at Ferry Point Park East. Built on top of a former municipal landfill, the major elements of the Clubhouse construction project consisted of the installation of over 200 steel support pilings driven through the former landfill material and into competent rock at an average depth of 75 below grade. During the support piling installation, Maser Consulting (acting as the IEM) measured the ambient air quality for signs of methane gas release from the subsurface. When detected on rare occasions, immediate measures were taken to mitigate methane from the work and breathing zones with the use of engineering controls including physical barriers and the use of industrial explosion-proof fans to ventilate the work zones.

Following the installation of the support pilings, Maser Consulting observed the installation of two added protective elements – a Liquid Boot® Vapor Barrier System and a corresponding SSDS. Both systems were designed to mitigate the intrusion of methane and other landfill gases into the new Clubhouse.

As a means to assess the effectiveness of the Vapor Barrier and the SSDS, a Methane Detection System was installed inside the new Clubhouse. The methane detection system consists of a network of in-floor methane sampling ports as well as a series of methane detectors located throughout the main banquet and reception areas as well as in the smaller offices, the kitchen and other employee and publicly-accessible areas.

This report certifies that the construction of the Liquid Boot® vapor barrier system and the SSDS for the new clubhouse have been completed in accordance with the 6 NYCRR Part 360 Solid Waste Management Permit for Ferry Point Park (copy provided as **Appendix A**). This report further certifies that Methane Detection system was also installed, tested and calibrated in compliance with the project permits, plans and specifications.

B. Report Organization

This report has been generated to provide a written post-construction certification report to comply with the requirements of the above-referenced Part 360 Permit. The narrative and supporting information provided in this report have been organized such that any individual, especially those not familiar with the new clubhouse construction, can gain a concise understanding of the history of improvements at the Site (a former solid waste management facility, i.e. landfill).

The report has been organized into the following sections:

- Section I which briefly describes the purpose and scope of the project, provides details pertaining to the Site background including a Site description, key agencies involved, and permitting history

- Section II describes the Part 360 Permits and modifications, Permit reference documents, nonconformance issues, operational upsets, emergencies, and unusual circumstances, and reporting completed associated with the new clubhouse

- Section III details the fill importation Quality Assurance / Quality Control (QA/QC) program, specifically source site reviews for cover layer material, on-site fill importation inspection, trucking manifests, rejected trucks and materials, fill tracking, and total carcinogenic semi-volatile organic compound (SVOC) tracking

- Section IV provides details related to construction activities on-site including construction of the new clubhouse, environmental controls such as landfill gas monitoring, municipal solid waste handling, earthwork and fill placement, demarcation layer, construction progress meetings, and deviations from the approved design plans and/or Permit requirements with as-built surveys

- Section V details the environmental monitoring completed during the Project including Stormwater Pollution Prevention Plan (SWPPP) erosion control inspections.

- Section VI provides a summary of the report

- Section VII provides report certification

C. Background Information

a. Project Scope

Ferry Point Park in the Bronx (the "Site") is a former landfill covering 222 acres that is bounded by the Bronx-Whitestone Bridge and Hutchinson River Parkway to the west; Balcom, Miles, and Emerson Avenues to the east; Schley Avenue and St. Raymond's Cemetery to the north; and the East River to the south. The project was originally managed under Ferry Point Partners, LLC and was taken over solely by the City of New York Department of Parks and Recreation in October 2007.

The original project scope included the construction of three main elements including a golf course, a community park, and a waterfront park over the 222-acre Site as follows:

- An 18-hole golf course with practice facility, driving range, clubhouse, maintenance facility, irrigation lake, stormwater retention ponds, and a parking lot (192.5 acres);
- A passive recreation waterfront park with walkways and a comfort station (19.5 acres); and
- A community park with baseball fields, basketball court, walkways, comfort station, and landscaped stormwater retention area (10 acres)

A new element of the project was initiated in 2017 with the construction of a permanent clubhouse in the southern corner of the Site. The project began in July 2017 and was completed in August 2018.

A supplemental component of the Clubhouse project was deemed necessary when the existing 2-inch gas service line to the facility was determined to not be capable of providing the volume of gas necessary to support the heating, ventilation and air conditioning units as well as other facility utilities such as the kitchen and other amenities. Construction of the Gas Main Installation began in late August 2018 and was substantially completed by November 2018.

b. Project Site[1]

The origins of the site date back to the early 1900s. At that time, an available 1900 map of the Bronx showed the western edge of the site which now contains the expressway and Whitestone Bridge was a long narrow peninsula extending out to the same area that the northern landing of the Whitestone Bridge now extends. Immediately east of this peninsula was a large open bay which is the area that the Ferry Point Golf Course is now located. Northeast of the bay and well inland was the Baxter Creek that drained into the bay. The eastern landfall of this embayment area is a larger peninsula that contains roadways and a residential development. The road patterns do not resemble the roadways that currently exist in that area and appear to have been changed.

A 1938 aerial photo showing the construction of the Whitestone Bridge shows the Bay, mooring, residential area and land to the west to be virtually the same as shown in the 1900 map. The significant change is in the widening of the western peninsula where the expressway was being constructed leading to the bridge ramps. The widening was not significant at this time but a rectangular area in the extreme northwest corner of what is now the site appears to be filled and graded – possibly to support construction staging area for the bridge/expressway. Areas of filling can be readily identified in the photograph by the contrasting lighter color typically indicative of sandy dredge sand placement. Other areas along the shoreline can be seen as containing a lighter-colored band of fill material and this includes much of the new Ferry Point Park located west of the Whitestone Bridge. Much of the park area was filled and graded by 1938. Bulkheads were constructed with linear components to present a smooth shoreline but one that does not appear to contain a beach where water diminishes in depth to 0. Photos of the eastern area of the bay where mooring and docks can be seen showing large vessels moored against the shore. This would indicate the water had significant depth all of the way to the center of the bay.

Aerial photographs from the 1950s show a drastic change in the area currently referred to as the site. Large expansion of the filling that was evident in 1938-39 up in the northeast corner can be clearly seen. The filling extends well into the bay and it appears that a connective bridge

[1] *Reference: "Ferry Point Park Golf Course & Community Park, Bronx New York, Final Construction Certification Report, NYSDEC Permit #2-6006-00014 / 00013 (SW)" prepared by the City of New York Department of Parks and Recreation dated October 19, 2015 – a.k.a. the 2015 Final Construction Certification Report*

was constructed from the eastern shore to the fill area. It is difficult to discern if this is a usable structure for crossing or if it had some other purpose. The filling operation appears from the photo to consist of the same light-colored material that was placed in the Ferry Point Park and from photos showing a large number of barges in the water filled with material of the same light color. There is specific documentation that presents the specific origin and consistency of the material. but from the prior aerials showing filling and this large expansion, it appears to be of a similar origin which would be dredge sand. In the 1951 aerial, no specific municipal solid waste dumping and disposal can be seen; however, records indicate the landfill operated during this approximate time period. It is therefore assumed that municipal solid waste was disposed shortly after the photo was taken. The landfilling shown in the aerial may have been the initial construction of the upper portion of the landfill with the tidal gate or bridge closing in the upper bay area. Additional aerials of the landfilling were not identified and more recent aerials document the completion of filling as well as the more recent golf course construction.

What can be discerned from this compilation of photos is that the landfill could be located in an area that may have been open water as well as some area that was previously reclaimed land with dredge material.

The Site operated as a landfill from before 1951 to the 1960s. The landfill reportedly accepted municipal solid waste during its operating period and was closed and covered in the mid-1960s, with additional closure operations conducted more recently in the 1980s. Prior Site use was determined from historic aerial photographs from 1938 thru 1991. The aerial photographs span the entire operational period of the prior landfill, from its initial operations to the present, and provides substantial information about the Site's development.

c. Key Agencies

The following were the key agencies associated with the project providing oversight, administration, design, construction, and monitoring services. The following is not intended to be an exhaustive list of involved entities related to the Project:

Primary Regulatory Agency:
New York State Department of Environmental Conservation Region 2 ("NYSDEC")

Project Permittee:
City of New York Department of Parks & Recreation ("NYCDPR")

Primary Design, Engineering, Construction, and Monitoring Consultants:
Hart Howerton Planning, Architecture and Landscape Architecture, P.C. ("Hart Howerton")
French & Parrello Associates ("FPA")

Independent Environmental Monitor ("IEM"):
Maser Consulting P.A. ("Maser Consulting")
Woodard & Curran ("W&C")

General Contractor:
Golf Course Clubhouse: JCS Construction Group, Inc. ("JCS")

Subcontractor for the SSDS and Liquid Boot® Vapor Barrier Installation:
EAI, Inc. ("EAI")

Golf Course Concessionaire/Operator:
The Trump Organization ("Trump")

See **Appendix B** for a list of project participants.

d. Independent Environmental Monitor

The requirement for an IEM on this project was associated with an increased level of monitoring exceeding normal review and oversight practices of the NYSDEC in order to protect public health and the environment. The increased level of review and oversight for this Project was mainly associated with the effort required for evaluation of fill material sources, source site testing and inspection, importation of the fill material, environmental monitoring required at the clubhouse construction site, and later along the gas main installation route. IEM services were also necessary during the installation of over 200 support piles through the former waste pile located beneath the new Clubhouse.

In accordance with Special Condition 24 of the 2014 Permit (**Appendix A**), NYCDPR was responsible to retain an IEM, accountable to NYSDEC, to provide environmental oversight of activities authorized under the Permit including but not limited to the quantification, importation and placement of fill, and the monitoring of the clubhouse construction site. Particular activities performed by the IEM for this Project included the following:

- Report deviations from or non-compliance with permitted activities to NYSDEC;
- Evaluate and inspect fill sources;
- Evaluate, monitor and mitigate methane intrusions during the installation of steel support pilings for the new clubhouse foundation;
- Witness source site investigation, sampling, and compare lab test results to Permit requirements;
- Visual and Photoionization Detector (PID) inspection of imported fill materials to the Site;
- Monitor offloading of trucks and reject unacceptable materials from being dumped on the Site and used for construction;
- Monitor environmental sampling on the Site (i.e. landfill gas);
- Monitor fill operations on the Site, particularly the installation of minimum thickness of shaping layer and cover layer materials as well as demarcation layer installation;
- Complete and submit Daily Observation Reports to NYCDPR;
- Complete weekly Erosion Control Reports; and
- Attend weekly Construction Progress Report meetings

The selection, continued retention, discharge, or replacement of the IEM was subject to the approval of NYSDEC at its sole discretion.

e. Project and Part 360 Permitting History

The following represents an overview of project and permitting history outlining key events:

On May 21, 2014 NYSDEC issued Permit No. 2-6006-00014 / 000013 for a Solid Waste Management Facility for the Ferry Point Park Golf Course; this permit establishes an IEM. A copy of this permit is provided in **Appendix A**.

On June 12, 2017 the Ferry Point Park SSDS Plan prepared by FPA for the proposed permanent clubhouse was submitted to NYSDEC. A copy of this submittal is provided in **Appendix C**.

On June 22, 2017 NYSDEC issued a letter to The Trump Organization approving the Ferry Point Park SSDS Plan. A copy of this letter is provided in **Appendix D**.

On June 7, 2018 Maser Consulting (through The Trump Organization) submitted a Construction Certification for the SSDS to NYSDEC to allow for the temporary, one-day opening of the new clubhouse on June 11, 2018. A copy of this submittal is provided in **Appendix E**.

On July 2, 2018 NYSDEC issued a review letter with comments on the June 7, 2018 Maser Consulting Construction Certification for the SSDS. A copy of this letter is provided in **Appendix F**.

On July 11, 2018 Maser Consulting provided a letter response to NYSDEC's July 2, 2018 review letter. A copy of this letter response is provided in **Appendix G**.

f. Construction Drawings

Construction drawings for the SSDS are included in **Appendix C**.

II. PART 360 PERMIT

A. Part 360 Permits and Modifications

The following permit was issued for this Project:

NYSDEC Permit No. 2-6006-00014 / 000013 (Solid Waste Management Facility – Ferry Point Park Golf Course, Bronx NY) issued on May 21, 2014 (copy provided in **Appendix A**).

B. Reference Documents

Refer to the 2015 Final Construction Certification Report for a list of Permit reference documents. These documents support the original Permit and/or provide basis for subsequent permits renewals and modifications.

C. Non-Conformance Issues

In accordance with Special Condition 24 of the 2014 Permit, the IEM reported on Permit-related non-conformance issues during the duration of construction of the permanent clubhouse and on the gas main installation project. Non-conforming issues identified during the construction of the new facility were immediately addressed and remedied so that activities were in conformance with applicable plans, specifications and permits.

D. Operational Upsets, Emergencies, and Unusual Circumstances

No evidence of security breaches, unauthorized entries, injuries, fires, theft, vandalism etc. were observed during construction of the permanent clubhouse. The only post-construction upset was related to damage caused to the outdoor lighting system from wildlife borrowing and chewing. Corrective measures were undertaken with normal and routine maintenance actions by The Trump Organization maintenance staff.

E. Reporting

The IEM was responsible for daily and weekly reporting to the NYCDPR regarding the status of the work. The IEM participated in weekly on-site construction meetings and submitted weekly Erosion Control Reports during the construction period. Daily Observation Reports ("DOR") were also submitted to the NYCDPR for review and comment.

The IEM reported to the NYCDPR on a generally daily basis on the following information: weather conditions, fill materials imported to the site, detailed notes of construction activities, and non-conformance issues related to the Permit conditions. Non-conformance issues were immediately addressed by the contractors under the supervision of the IEM. The IEM also reported weekly to the NYCDPR on the construction status and pertinent observations regarding the erosion control measures around the construction site and at the imported soil stockpile area.

DORs are provided in **Appendix I** beginning on July 19, 2017 through February 5, 2019.

F. Authorized Fill Volumes

Imported fill material was derived from two pre-approved sources, one for cover material associated with the new Clubhouse and one for cover material used in the installation of the new 6-inch gas main.

New York Recycling located at 475 Exterior Road, Bronx, NY was the source of the material used for the new Clubhouse. A table in **Appendix K** indicates the volumes of material imported from this facility. This material met the soil quality standards set forth in the Permit requirements. During the course of the importation process, the material was re-sampled in order to reconfirm its quality. Analytical testing data can be reviewed in **Appendix J**. A total of 1,062 cubic yards of material was imported from this source site between November 2017 and March 2018.

Ranco Sand and Gravel located at 151 South Street, Manorville, New York was the source site for materials imported for the gas main installation project. A site source inspection was conducted in advance of the imports and analytical testing was performed to establish that imported material would meet all Permit conditions and requirements. A table in **Appendix L** provides a summary of the imports from Ranco Sand & Gravel. A of total 690 cubic yards of material was imported between September and October 2018.

III. FILL IMPORTATION QA/QC PROGRAM

A. Background

Fill material importation for construction of the permanent clubhouse commenced on November 27, 2017 and the last day for fill import was March 12, 2018. The fill importation QA/QC program implemented for the Project based on the Permit and associated reference documents was adhered to. The fill importation consisted of two main components: source site reviews and on-site inspections. A source site review was conducted by the IEM prior to fill material being imported to the Site and additional visual and PID inspections were completed by the IEM upon the material entering the Site at the IEM inspection area and again once the material was dumped at the work or stockpile location on the Site.

B. Source Site Reviews

Prior to cover layer material being imported to the Site, each potential source was thoroughly evaluated by the IEM. An environmental review was performed for proposed source sites in accordance with Special Condition 24 of the 2014 Permit. The source site review process criteria were specified in the Report on Fill Management, Operations and Maintenance, prepared by TRC on May 16, 2000, and revised June 30, 2005 (Volume #2 of the 2005 Engineering Report). The source site review process was modified over time as compared to the original process outlined in the various engineering reports and permit modification requests. The process generally consisted of the following main components:

- NYCDPR would notify the IEM of a new potential source site. NYCDPR would provide the IEM with the site name and location as well as any available historical site information and soil environmental analytical results that existed for the potential source site.

- Once NYCDPR confirmed that their desire to move forward with pursuing the potential source site, NYCDPR authorized the IEM to retrieve available site information. NYCDPR then completed an initial review of the existing site information, generated a sampling plan, and provided the results of the initial review and sampling plan to the IEM. NYCDPR then authorized the IEM to conduct a desktop review of the existing site information, available soil environmental analytical results, and NYCDPR's sampling plan. The IEM provided NYCDPR with comments related to their review and their sampling plan in consultation with NYSDEC. Once a final sampling plan was agreed upon, the source site investigation was initiated and executed per the NYCDPR sampling plan with IEM oversight. For source sites with in-situ material, test pits

were typically completed with additional soil samples inspected, collected, and analyzed in accordance with the Permit requirements. Once the sampling was completed, the IEM reviewed sample results and the IEM generated a memorandum summarizing the review process and provided recommendations and requirements necessary for NYCDPR to address in order to continue pursuing the potential source site. The recommendations typically included conditions associated with overseeing the excavation, loading, and importing of the source site material to the Site in accordance with the Permit. The IEM submitted the memo of recommendations to NYSDEC for review and comment prior to issuing the final memorandum to NYCDPR. NYSDEC would provide final comments and approval of the source site with any additional required conditions.

- If NYCDPR determined that the potential source site was worth pursuing considering site-specific conditions, schedules, etc., they coordinated with the source site operator and IEM on importation schedule and requirements. The IEM provided oversight to confirm that the loading, hauling, and overall import of the approved material was completed in accordance with the memorandum of recommendations, NYSDEC conditions, and the Permit.

- The IEM provided oversight during export from the approved source sites on an as needed basis and provided oversight at each source site during additional sampling activities if the source site was exporting more than the minimum sampling frequency outlined in the Permit (i.e. 10,000 cubic yards for shaping layer material and 2,000 cubic yards for cover layer material).

If at any time during the review process there were reasons for concern identified by the IEM resulting in the potential source site being classified as a "complex" source site, NYSDEC became the primary reviewer and made final recommendations related to additional site investigation requirements or approval/rejection of the potential source site with support from the IEM. A complex source site was defined by the presence of an abundance of or particular Recognized Environmental Concerns ("RECs") and NYSDEC made decisions related to approval and/or associated conditions for further evaluation or import of the fill material.

For both source sites used in this Construction Project, no complex source site determinations were made.

Details of source site review and site testing activities are included in the report text and specific DORs. Source site review supporting information and testing data is included in the 2015 Final Construction Certification Report.

C. Cover Layer Material

Materials accepted for use as cover layer on the Site were sampled prior to acceptance and after each additional 2,000 cubic yards. As per the 2005 Permit modification, the parameters for cover layer material included the complete analyte list of TAGM 4046 for total VOCs, total SVOCs, total pesticides and herbicides, total PCBs, total metals, sulfur, and asbestos.

Based on source site reviews and site testing activities, the cover layer material imported to the Site met the following chemical limits:

Analyte	Shaping Layer
RCRA Metals (mg/kg = ppm)	
Arsenic	28
Barium	2,000
Cadmium	20
Chromium	1,000
Copper	1,000
Lead	400
Mercury	0.57
Selenium	11
Silver	100
TCLP Metals (mg/l)	
Arsenic	5.0
Barium	100.0
Cadmium	1.0
Chromium	5.0
Lead	5.0
Mercury	0.2
Selenium	1.0
Silver	5.0
Volitile Organic Compounds (mg/kg)	
Acetone	0.2
Benzene	0.06
Benzoic Acid	2.7
2-Butanone (i.e. MEK)	0.3
Carbon Disulfide	2.7
Carbon Tetrachloride	0.6
Chlorobenzene	1.7
Chloroethane	1.9
Chloroform	0.3
Dibromochloromethane	N/A
1,2-Dichlorobenzene	7.9
1,3-Dichlorobenzene	1.6
1,4-Dichlorobenzene	8.5
1,1-Dichloroethane	0.2
1,2-Dichloroethane	0.1
1,1-Dichloroethene	0.4
1,2-Dichloroethene (trans)	0.3
1-3 dichloropropane	0.3
Ethylbenzene	5.5
113 Freon (1,1,2 Trichloro-1,2,2 Trifluoroethane)	6
Methylene chloride	0.1
4-Methyl-2-Pentanone (i.e. MIBK)	1
Tetrachloroethene	1.4
1,1,1-Trichloroethane	0.8
1,1,2,2-Tetrachloroethane	0.6
1,2,3-trichloropropane	0.4
1,2,4-trichlorobenzene	3.4
Toluene	1.5
Trichloroethene	0.7
Vinyl chloride	0.2
Xylenes	1.2
TCLP Volitile Organic Compounds (mg/l)	
Benzene	0.5
Carbon Tetrachloride	0.5
Chlorobenzene	100
Chloroform	6
1,4-Dichlorobenzene	7.5
1,2-Dichloroethylene	0.5
1,1-Dichloroethylene	0.7
Methyl ethyl ketone	200
Tetrachloroethylene	0.7
Trichloroethene	0.5
Vinyl chloride	0.2

Semi-Volatile Organic Compounds * (mg/kg)	
Acenaphthene	N/A
Acenaphthylene	N/A
Aniline	N/A
Anthracene	N/A
Benzo(g,h,i)perylene	N/A
bis(2-ethylhexyl)phthalate	N/A
Butylbenzylphthlate	N/A
4-Chloroaniline	N/A
4-Chloro-3-methylphenol	N/A
2-Chlorophenol	N/A
Dibenzofuran	N/A
3,3'-Dichlorobenzidine	N/A
2,4-Dichlorophenol	N/A
2,4-Dinitrophenol	N/A
2,6 Dinitrotoluene	N/A
Diethylphthlate	N/A
Dimethylphthlate	N/A
Di-n-butyl phthalate	N/A
Di-n-octyl phthlate	N/A
Fluoranthene	N/A
Fluorene	N/A
Hexachlorobenzene	N/A
Isophorone	N/A
2-methylnaphthalene	N/A
2-Methylphenol	N/A
4-Methylphenol	N/A
Naphthalene	N/A
Nitrobenzene	N/A
2-Nitroaniline	N/A
2-Nitrophenol	N/A
4-Nitrophenol	N/A
3-Nitroaniline	N/A
Pentachlorophenol	N/A
Phenanthrene	N/A
Phenol	N/A
Pyrene	N/A
2,4,5-Trichlorophenol	N/A
Dibenzo(a,h)anthracene	10
Benzo(a)pyrene	10
Benzo(a)anthracene	10
Benzo(b)fluoranthene	10
Ideno(1,2,3-cd)pyrene	10
Benzo(k)fluoranthene	10
Chrysene	10
Total SVOCs	500
Total cVOCs	10
Organic Pesticides/Herbicides and PCBs (mg/kg)	
Aldrin	N/A
alpha-BHC	N/A
beta-BHC	N/A
delta-BHC	N/A
Chlordane	N/A
2,4-D	N/A
4,4'-DDD	N/A
4,4'-DDE	N/A
4,4'-DDT	N/A
Dibenzo-P-dioxins (PCDD) 2,3,7,8 TCDD	N/A
Dieldrin	N/A
Endosulfan I	N/A
Endosulfan II	N/A
Endosulfan Sulfate	N/A
Endrin	N/A
Endrin keytone	N/A
gamma-BHC (Lindane)	N/A
gamma-chlordane (trans chlordane)	N/A
Heptachlor	N/A
Heptachlor epoxide	N/A
Methoxychlor	N/A
Mitotane (2,4' DDD)	N/A
Parathion	N/A
PCBs	N/A
Polychlorinated dibenzo-furans (PCDF)	N/A
Silvex	N/A
2,4,5-T	N/A
Total PCBs	10
Total Pesticides	10
Other	
Asbestos	0.50%
Total Sulfur	0.50%

N/A = Not Available
SB = Site Background
* = Total SVOCs must be less that 500ppm. Total carcinogenic SVOCs must be less than 3 ppm if any one of the cSVOCs** exceeds TAGM.
** = cSVOC list includes: Benzo(a)pyrene, Dibenzo(a,h)anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Indeno(1,2,3-cd)pyrene, Benzo(k)fluoranthene, and Chrysene.
*** = Some forms of Cyanide are complex and very stable while other forms are pH dependent and hence are very unstable. Site-specific form(s) of Cyanide should be taken into consideration when establishing soil cleanup objective
**** = Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.
MDL = Method Detection Limit

a. New York Recycling

Details of the New York Recycling (475 Exterior Street, Bronx NY) source site review and site testing for this cover layer material source site are included in the DORs. Analytical sampling and testing was completed at the site in September 2017. A site inspection was performed concurrently with the sampling event.

Approximately 1,062 cubic yards of cover layer material were imported to the Site from this source site for construction of the permanent clubhouse between November 2017 and March 2018. The majority of the material was used to raise the grade elevation in the immediate vicinity of the Clubhouse foundation and the landscape beds surrounding same.

b. Ranco Sand & Stone

The source site review for Ranco Sand & Stone (151 South Street, Manorville NY) consisted of an August 25, 2018 site visit to collect samples of this cover layer material for laboratory analysis; results are included in **Appendix N**. Results indicated that analyzed parameters met the permit standards.

Approximately 690 cubic yards of cover layer material were imported to the Site from this source site for cover material related to the gas main installation project.

D. On-Site Fill Importation Inspections

c. Process

As required under Special Condition 24 of the 2014 Permit, fill importation was inspected at the Site by the IEM. Fill material volume (truck volume) was measured and recorded for each delivery of fill material as it arrived on-site by NYCDPR's appointed representative. The fill material was then inspected by the IEM at the entrance to the Site. At this time, the fill material was visually inspected and field screened for signs of contamination. The visual inspection included observations of the material, disturbing the material with a shovel, and close-up observations of the material retrieved by shovel while still in the truck or trailer. Field screening of the fill material was executed using a PID. If the fill material failed to meet the Permit requirements for reasons such as a PID reading above ambient air, the presence of asphalt, concrete or brick components, or some other unauthorized debris, the load was rejected immediately prior to dumping. If the material was rejected, the truck was not allowed to dump on-site and was directed to exit the site immediately.

During the material imports for the Clubhouse and the gas main installation project, the IEM found no reason to reject the imported loads. Loads met the visual and field screening tests and were subsequently accepted.

If the fill material passed the initial inspection at the IEM observation area, either it was allowed to dump directly at a work location for immediate use as cover layer material or it was transported to, and dumped at, a stockpile location. At the dump location, the IEM screened the fill material visually and with a PID for a second time prior to spreading if dumped at an active work location. If the fill material did not meet the permit requirements at the dump location, it was immediately rejected, loaded back onto the same truck, and transported off-site. During the material imports for the Clubhouse and the gas main installation project, the IEM found no reason to reject the imported loads. Loads met the visual and field screening tests and were subsequently accepted.

d. Trucking Manifests

Trucking manifests were utilized for imported cover layer materials. A three-part manifest form was completed to track each load of material from origination at the source site to destination at the Site. The manifest contained information including but not limited to a manifest number, the source site name and address, the truck driver's name, truck and trailer license plate numbers, volume of material, as well as the time of departure from the source site and arrival time at the Site. Copies of fill import manifests are provided in **Appendix K**.

e. Rejected Trucks & Materials

Materials imported to the Site met the IEM's importation inspections, and none were rejected.

E. Fill Tracking

Testing per 2,000 cubic yards for cover layer material is included in Special Condition 14 of the 2014 Permit).

Cover layer material volumes were tracked based upon the calculated volumes within each truck. This provided for the most accurate and consistent approach to monitoring the volume of imported fill materials. Prior to receipt of the calculated volumes, the IEM tracked estimated volumes as trucks dumped on the Site.

The total volume of cover layer material imported to the Site for construction of the permanent clubhouse was 1,530 cubic yards (truck volume) or 0.39 percent of the authorized amount under the Permit.

F. Total Carcinogenic Semi-Volatile Organic Compound Tracking

As identified in Special Condition 14 of the 2014 Permit, the NYSDEC Acting Regional Director letter dated October 25, 2006 authorized the import of shaping material with a total carcinogenic SVOC (tcSVOC) level of up to 10 parts per million (ppm), which would not otherwise be acceptable, provided the tcSVOC weighted average of all imported material is equal to or less than 3 ppm at the end of each quarter. The tcSVOC weighted average is defined as the sum of the products of the material volume and the material tcSVOC, for each material source, divided by the total volume of the material imported. The weighted average was calculated over the course of construction and the final weighted average for shaping layer and cover layer materials imported to the Site was 0.70 ppm, less than the 3 ppm maximum. The total carcinogenic SVOC weighted average table and computations are included in the 2015 Final Construction Certification Report for materials imported to the Site after November 18, 2005.

SVOCs were sampled for New York Recycling on September 28, 2017. The tcSVOC level did not exceed 10 ppm. A copy of the laboratory report is provided in **Appendix J**.

SVOCs were sampled for Ranco Sand & Stone on August 25, 2018. The tcSVOC level did not exceed 10 ppm. A copy of the laboratory report is provided in **Appendix N**.

IV. PERMANENT CLUBHOUSE CONSTRUCTION

A. General

From July 2017-September 2018, Trump Golf Links at Ferry Point constructed a permanent clubhouse facility. The 14,100 square foot one-story building is located in the far southern section of the Site (immediately west of the 18th fairway) and includes locker rooms, showers, a bar room, a kitchen and associated facilities, ballrooms, administrative offices and a golf pro shop. The Trump Organization contracted with JCS Construction, Inc. to build this facility on piles, as it was formerly a landfill.

B. Environmental Controls / Construction

a. Landfill Gas Monitoring

Steel beams were driven to intermediate depths of approximately 40 feet, welded to another steel beam of the same length, driven to completion depths of approximately 75 feet, then cut to grade. Prior to welding/cutting, the piles were checked at the inlet (i.e. ground surface elevation) with a four-gas MiniRAE Meter. The meter alarm was triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) were above OSHA exposure limits; the alarm was not triggered for the vast majority of field activities, and on the few occasions when triggered, soil was placed over the inlet until the meter alarm was not triggered prior to welding/cutting activities. As an added measure of protection, when the meter alarm activated, explosion-proof industrial ventilation fans were activated to vent the work area and disperse gases emanating from the subsurface.

b. Imported Soils Monitoring

Fifty-nine (59) loads of soil (approximately 1,062 cubic yards) were imported from New York Recycling, a donor source located at 475 Exterior Street in the Bronx; and 27 loads of soil (approximately 690 cubic yards) were imported from Ranco Sand & Stone, a donor source located at 151 South Street in Manorville NY. Air monitoring performed during the course of the workday revealed no detections above background on the PID. Visual observation and PID monitoring of each load of soil from New York Recycling and from Ranco Sand & Stone showed no evidence of VOCs or visual signs of debris within the material.

C. Municipal Solid Waste

A Royal Carting commercial municipal solid waste (MSW) six-yard container was available on Site during the duration of clubhouse construction activities. MSW was not encountered or generated during digging, earth-moving or excavation activities associated with the new clubhouse or the gas main installation activities.

D. Earthwork / Fill Placement

Earthwork and fill placement for this Project were performed in accordance with the Permit.

a. Cover Layer Material

Cover layer material was installed at the Site in accordance with the 2014 Permit (**Appendix A**).

Imported soil from New York Recycling and from Ranco Sand & Stone was backfilled and graded around the perimeter of the concrete sub-structure. The soil from New York Recycling was characterized as brown fine-coarse sand with occasional crushed stone roughly 1-1.5 inches in diameter. Materials imported from Ranco Sand & Gravel was characterized as clean, well-rounded white to gray medium sands.

b. Topsoil

Topsoil was used on the Site (in lieu of sand) specifically in tree planting pits and other landscape areas. Topsoil was imported from commercially available sources (i.e. Home Depot) and used on the Site as approved. This material met the cover layer material Permit requirements including the specification included in the 2014 Permit.

E. Meetings

On a weekly basis during construction of the permanent clubhouse, progress meetings were held in the JCS field office trailer or in the temporary clubhouse on site. Various representatives from NYCDPR, the Trump Organization, JCS and the IEM (Maser Consulting) attended the meetings to discuss construction progress, current issues and scheduling.

Available meeting minutes from construction progress meetings are provided in **Appendix M**.

F. SSDS / Liquid Boot® Installation

From November 2-7, 2017 the SSDS was installed. Lateral collection piping was laid, and the SSDS pits were excavated and connected to the lateral collection piping. The IEM provided oversight, including taking measurements of the as-built SSDS component installed locations for use in this report.

Stone cover was then poured over the SSDS prior to Liquid Boot® installation.

From November 8-15, 2017 the stone cover was lined (base fabric), sprayed with Liquid Boot®, and allowed to cure. Smoke testing was then performed, with leaks identified and resprayed. Coupon samples were measured to ensure that the cured thickness met the design requirement. Once smoke testing, coupon measurements and leak repairs were complete, a cover fabric was placed over the floor footprint prior to pouring the slab.

On two separate occasions after the initial spraying, curing and smoke testing of the vapor barrier, repairs had to be made to the barrier layer. IEM observations of damage to the cover fabric provided the impetus for additional spraying and testing. The first event took place in January/February of 2018 when weather conditions and mild temperatures prevailed. A final smoke test and barrier layer repair took place before the concrete floor was poured and once the Clubhouse was being enclosed. During both re-spray events, defects were located, repaired and re-tested for integrity. Like the previous smoke tests, the final smoke test indicated no signs of vapor barrier leaks, tears or defects.

On one occasion, Liquid Boot® was sprayed at temperatures below the recommended 45 degrees F. However, it was determined by experienced applicators and inspectors—based on site specific conditions—that the curing of the spray was acceptable. See documentation from CETCO/Minerals Technologies (the Liquid Boot® manufacturer) dated November 9, 2017 (**Appendix P**).

A letter of completion provided by EAI is provided in **Appendix P**.

G. Six-Inch Gas Main Construction

In July 2018, the existing 2-inch gas service line was determined by FPA engineers to be insufficient to support the demands of the new Clubhouse facility. A new 6-inch gas main was required to meet the demand. Installed between August and October 2018, the new main provides sufficient volumes of natural gas to support the new Clubhouse facility and its amenities.

The new gas line was connected to a Con Ed main located on Schley Drive, north of the golf course. The new pipeline runs along the western perimeter of the site along fairways #6, #7 and #8. The line doglegs to the west side of the maintenance area and generally follows the service cart path along the west side of the property. The line turns to the east toward the new Clubhouse in the general vicinity of the parking lot.

The service connection to the Clubhouse is located in a vault approximately 50 feet west of the Clubhouse, near the driveway entrance.

Architect drawings for this gas main are provided in **Appendix Q**. DORs are provided in **Appendix R** beginning on August 24, 2018 through October 22, 2018.

H. Record Drawings & Deviations from Approved Design Plans

The permanent clubhouse project consisted of the following features and was designed by Hart Howerton and FPA:

- Golf pro shop
- Women's and men's locker rooms
- Dining room
- Bar/grill
- Kitchen
- Terraces
- Offices
- Vestibule and porch
- SSDS/Vapor Barrier

Deviations to the permanent clubhouse construction project were as follows:

- Drawing No. FO-500.00 "Vapor Remediation Underslab Plan" – lateral piping to SSDS pits DP-2B & DP-2C built approximately 2 feet offset from design due to piping conflicts
- Drawing No. FO-501.00 "Vapor Remediation Floor Plan" – riser piping for fan units SF-1 & SF built within walls to conceal system and prevent unauthorized access; gas sensors in Hall 124, Vestibule 101 & Electrical 113 ceilings built approximately 3-5 feet from design due to piping conflicts; monitoring point MP-1 built approximately 9 feet from design due to piping conflicts; monitoring point MP-8 built approximately 50 feet from design due to piping conflicts; monitoring point MP-9 built approximately 14 feet from design due to piping conflicts; monitoring point MP-10 built approximately 14 feet from design due to piping conflicts; monitoring point MP-2 was installed at the location shown in the Plan, however, it appears to have been tiled-over and is no longer accessible as a sampling point
- Drawing No. FO-502.00 "Vapor Remediation Attic & Mezzanine Plan" – fan unit SF-1 built approximately 10 feet to the left of design due to piping conflicts
- Drawing No. FO-504.00 "Vapor Remediation Details" – detail 1B built using hollow (instead of solid) concrete blocks; 'Methane Gas Sensor Detail (option 1)' & 'Methane Gas Sensor Detail (option 2)' added for sensor plenum boxes
- Drawing No. SD201 "Methane Monitoring System Ceiling Plan (As Built)" – methane gas sensor S16 built approximately 5 feet from design due to piping conflicts; methane gas sensor S19 built approximately 4.5 feet from design due to piping conflicts; methane gas sensor S28 built approximately 5 feet from design due to piping conflicts

Copies of the drawings issued for construction are provided in **Appendix C**. Copies of the drawings showing deviations from design are provided in **Appendices E and O**.

V. ENVIRONMENTAL MONITORING

A. Stormwater Pollution Prevention Plan (SWPPP)

The IEM performed weekly erosion control inspections to ensure compliance with Permit requirements. Erosion control inspections were carried out through the duration of permanent clubhouse construction. The SPDES permit remained effective until completion of ongoing construction including the permanent clubhouse. Copies of erosion control inspection reports are provided in **Appendix H**.

B. Landfill Gas Monitoring

NYCDPR will implement post-construction monitoring necessary to fulfill the requirements of the Post-Construction Custodial Care Plan for landfill gas monitoring per the 2015 Final Construction Certification Report.

VI. SUMMARY

Construction of a permanent clubhouse in the southern corner of the Site began in July 2017 and was substantially completed in October 2018. Activities included clearing and grubbing, excavation, installation of support pilings, grading, importation of fill material, construction of the permanent clubhouse with a protective vapor barrier system and associated SSDS and associated appurtenances, installation, testing and calibration of an interior methane detection system, installation of utilities and infrastructure, installation of plantings, and installation of a new gas main. A representative of the IEM was present during construction activities. For this project, fill importation and SSDS/Vapor Barrier construction followed the Permit and NYSDEC requirements as documented in the DORs as summarized herein.

VII. CERTIFICATION

Certification Statement

I, Donald Bowman, an employee of Maser Consulting P.A. and a Registered Professional Engineer licensed by the State of New York, exercising independent judgment and discretion do hereby certify that this Subslab Depressurization System (SSDS) for the Trump Golf Links at Ferry Point Clubhouse was constructed under my direction and supervision. The information contained herein is based upon: (1) work which I have personally inspected both during and after construction from July 2017 to date; (2) information provided to me by those directly employed by Maser Consulting P.A.; (3) Design Consultants; and (4) contractors responsible for construction pursuant to their contracts except as indicated[2].

I certify that, from July 2017 to date, Maser Consulting representatives observed the installation of the critical elements of the SSDS for the Trump Golf Links at Ferry Point Clubhouse, with the following deviations from design:

- Drawing No. FO-500.00 "Vapor Remediation Underslab Plan" – lateral piping to SSDS pits DP-2B & DP-2C built approximately 2 feet offset from design due to piping conflicts
- Drawing No. FO-501.00 "Vapor Remediation Floor Plan" – riser piping for fan units SF-1 & SF built within walls to conceal system and prevent unauthorized access; gas sensors in Hall 124, Vestibule 101 & Electrical 113 ceilings built approximately 3-5 feet from design due to piping conflicts; monitoring point MP-1 built approximately 9 feet from design due to piping conflicts; monitoring point MP-8 built approximately 50 feet from design due to piping conflicts; monitoring point MP-9 built approximately 14 feet from design due to piping conflicts; monitoring point MP-10 built approximately 14 feet from design due to piping conflicts; monitoring point MP-2 was installed at the location shown in the Plan, however it appears to have been tiled-over and is no longer accessible as a sampling point
- Drawing No. FO-502.00 "Vapor Remediation Attic & Mezzanine Plan" – fan unit SF-1 built approximately 10 feet to the left of design due to piping conflicts
- Drawing No. FO-504.00 "Vapor Remediation Details" – detail 1B built using hollow (instead of solid) concrete blocks; 'Methane Gas Sensor Detail (option 1)' & 'Methane Gas Sensor Detail (option 2)' added for sensor plenum boxes

[2] Certification means a statement of professional opinion based upon investigation, analysis, knowledge and belief that is stated to be true and accurate. 6 NYCRR Part 360-1.2(b)24.

- Drawing No. SD201 "Methane Monitoring System Ceiling Plan (As Built)" – methane gas sensor S16 built approximately 5 feet from design due to piping conflicts; methane gas sensor S19 built approximately 4.5 feet from design due to piping conflicts; methane gas sensor S28 built approximately 5 feet from design due to piping conflicts

STATE OF NEW YORK
DONALD F. BOWMAN
No. 095674
LICENSED PROFESSIONAL ENGINEER

Donald Bowman, P.E.
Maser Consulting P.A.

11/26/2019
Date

\\njncad\Projects\17002426A\Reports\Construction As-Built Report - Aug 2018\191126 Trump Ferry Point Clubhouse As-Built Report.docx

APPENDIX A

6 NYCRR Part 360 Permit for Ferry Point Park
(NYSDEC Permit No. 2-6006-00014 / 00013
with an Effective Date May 21, 2014 and Expiration Date May 20, 2024)

New York State Department of Environmental Conservation
Division of Environmental Permits, Region 2 Office
47-40 21ST Street, Long Island City, NY 11101-5407
Phone: (718) 482-4997 • **Fax:** (718) 482-4975

Joe Martens
Commissioner

May 21, 2014

Kay Zias
Capital Projects
City of New York Parks and Recreation
Olmstead Center
Flushing Meadows-Corona Park
Flushing, N.Y. 11368

Re: DEC No. 2-6006-00014/000013 (2-6006-00014/00016)
Permit Issuance - Solid Waste Management Facility (Tidal Wetlands)
Ferry Point Park Golf Course, Bronx, NY

Dear Ms Zias:

Enclosed are permits for the referenced facility. Please read all conditions carefully. Please provide a copy of the permit and all attachments to the document repository established for this project.

Special Conditions 28, 29, 32, 37, 38 and 39, among others, specify post permit submittals, please make a note of the submission deadlines. To assist the development of a deed restriction for the project site, Attachment A, to this notice contains draft language of the conditions to be specified in the restrictive covenant.

If you have questions on the specific solid waste management conditions, please contact Sam Arakhan at 718-482- 4894. If you have questions regarding marine resources issues and the development of the waterfront park contact Susan Maresca at 718-482-6464. If you have any other questions regarding the administration of this permit, please contact Michelle Moore at 718-4982-4967.

Sincerely,

John F. Cryan
Regional Permit Administrator

Enclosures

S. Arakhan, DMM, R2
K. Brezner, DMM, R2
D. Menasha, DAR, R2
S. Maresca, DMR, R2
J. Nehila, Esq., DLA, R2
S. Zacharias, DOW, R2
M. Moore, DEP, R2
File

ATTACHMENT A

DECLARATION OF COVENANTS AND RESTRICTIONS

THIS COVENANT made this __ day of _____, 2014, by the City of New York ("City"), a municipal corporation organized and existing under the laws of the State of New York, acting by and through the New York City Department of Parks and Recreation ("DPR") and having an office for the transaction of business 830 Fifth Avenue, New York, New York, 10021, and the New York City Department of Citywide Administrative Services ("DCAS"), having an office for the transaction of business at 1 Centre Street, New York, New York, 10007, in favor of the New York State Department of Environmental Conservation ("Department"), an agency of the State of New York, with offices at 625 Broadway, Albany, New York, 12233;

WHEREAS, DPR has jurisdiction pursuant to the New York City Charter over certain municipal parkland in the Borough and County of the Bronx, New York, known as "Ferry Point Park", which was the site of a former municipal landfill;

WHEREAS, pursuant to the New York State Environmental Conservation Law, Article 27, Title 7 and regulations promulgated pursuant thereto at 6 NYCRR Part 360, the Department has issued DPR a Solid Waste Management Permit (DEC Permit No. 2-6006-00014/00013-0)(the "Permit"), annexed hereto as Attachment A, to construct a Golf Course, Community Park and Waterfront Park (hereinafter "the Project") on the eastern portion of Ferry Point Park, a 222 acre parcel bounded by Bronx-Whitestone Bridge to the West, Balcom, Miles and Emerson Avenues to the East, Schley Avenue and St. Raymond's Cemetery to the North and the East River to the South (the "Site"), said parcel comprising Block 5583, Lot 100 and a portion Block 6522, Lot 1, as shown on the Bronx County Tax Map and more particularly depicted on the map attached hereto as Attachment B;

WHEREAS, the Permittee is authorized to import a total of 2,514,000 cubic yards of in-place fill material to the Site, which fill material shall consist of approximately 2,120,000 cubic yards of select exempt construction and demolition (C&D) debris for the shaping layer, and approximately 394,000 cubic yards of cover material, to be used in constructing the Project;

WHEREAS, Special Condition 17 requires the Permittee to implement a Groundwater Monitoring Program as described in section 4.5 of the Supplemental Engineering Report, Volume 1, dated October 15, 2013 (hereinafter the "Supplemental Engineering Report");

WHEREAS, Special Condition 26 requires the Permittee to perform monthly monitoring of the Landfill Gas Passive Venting Trenches for the duration of the Permit, and, thereafter, to monitor the Landfill Gas Passive Venting Trenches as described in the Supplemental Engineering Report, Volume 3, Appendix F;

WHEREAS, Special Condition 28 requires the Permittee, during the duration of the Permit, to inspect the Landfill Gas Passive Venting Trenches monthly to verify the integrity of the venting trenches and their mulch cover, and, thereafter, to maintain the Landfill Gas Passive Venting Trenches after the completion of construction of the Project, in the manner described in the Supplemental Engineering Report, Volume 3, Appendix F;

WHEREAS, Special Condition 29 requires the Permittee, until the completion of the Project, to conduct monthly monitoring of the depth of ground water in each piezometer installed at the gas venting trenches, and, thereafter, such piezometer monitoring shall be performed in accordance with the Supplemental Engineering Report, Volume 3, Appendix F, Section 6;

WHEREAS, Special Condition 32 requires the Permittee to execute and file a Department approved deed restriction, which shall run with the land in perpetuity, and shall recite and require compliance with the Permit's provisions as regards to the custodial care requirements described in the Supplemental Engineering Report, Volume 3, Appendix I;

WHEREAS, Special Condition 33 requires the Permittee to conduct bi-weekly monitoring of the On and Off-site Gas Monitoring Networks;

WHEREAS, Special Condition 34 requires the Permittee to maintain, and upgrade if required, the On and Off-site Gas Monitoring Networks during facility construction and after completion of the Project;

WHEREAS, Special Condition 35 requires the Permittee, upon Department approval of the Permittee's written post-construction certification report, to implement the custodial care plan described in the Supplemental Engineering Report, Volume 3, Appendix I;

WHEREAS, Special Condition 36 requires Permittee, should the Project be abandoned, to close, monitor and maintain after closure the entire 222 acre Site, in accordance with 6 NYCRR Sect. 360-2.15 as a landfill in operation since 2000;

WHEREAS, Special Conditions 17, 26, 28, 29, 33 and 34, require the installation, maintenance and operation of the Groundwater Monitoring Program, the Landfill Gas Passive Venting Trenches, the piezometers, and the On and Off-site Gas Monitoring Networks, on the perimeter of the site and off-site, for the purposes of monitoring groundwater and Landfill Gas and/or preventing Landfill Gas from migrating from the Site (hereinafter "Engineering Controls") said Engineering Controls being more particularly depicted on the map attached hereto as Attachment C.

WHEREAS, Special Condition 32 of the Permit requires the City of New York to execute and file a deed restriction for the real property beneath the site to run with the land in perpetuity, and that the deed restriction recites and requires compliance with the Permit's provisions as regards to Groundwater monitoring, the maintenance of Landfill Gas venting trenches, the piezometers, the On-site Landfill Gas Monitoring Network, including perimeter monitoring wells, the Off-site Landfill Gas Monitoring Network, and the criteria for abandonment of the site as specified in Special Condition 36 of the Permit;

NOW THEREFORE, pursuant to its terms, this covenant runs with the land and:

(1) requires the maintenance and operation of the Engineering Controls as set forth in Special Conditions 17, 26, 28, 29, 33 and 34 of the Permit;

(2) prevents modification or alteration of the Engineering Controls except as otherwise set forth in Special Conditions 17, 26, 28, 29, 33 and 34 of the Permit or in any subsequent written authorization by the Department or its successor agency;

(3) unless prior written approval by the Department or its successor agency is first obtained, there shall be no construction, use or occupancy of the Site that results in the disturbance or excavation of the Site which threatens the integrity of the Engineering Controls, or which results in unacceptable human exposure to contaminated soils;

(4) the owner of the Site shall not disturb, remove, or otherwise interfere with the installation, use, operation, and maintenance of Engineering Controls required by the Permit and the Supplemental Engineering Report, unless in each instance the owner first obtains a written waiver of such prohibition from the Department or its successor agency;

(5) the owner of the Site shall prohibit the Site from ever being used for purposes other than for the Project described in the Permit, without the express written waiver of such prohibition by the Department or its successor agency;

(6) the owner of the Site shall provide a periodic certification, prepared and submitted by a professional engineer or other environmental professional acceptable to the Department or its successor agency, which will certify that the Engineering Controls put in place are unchanged from the previous certification, comply with the Permit and the Supplemental Engineering Report, and have not been impaired;

(7) this Declaration is and shall be a covenant that shall run with the land and shall be binding upon all future owners of the Site, and shall provide that the owner and its successors and assigns consent to enforcement by the Department or its successor agency of the prohibitions and restrictions that the Permit requires be recorded, and hereby covenant not to contest the authority of the Department or its successor agency to seek enforcement;

(8) any deed of conveyance of the Site, or any portion thereof, shall recite, unless the Department or its successor agency has consented to the termination of such covenants and restrictions, that said conveyance is subject to this Declaration of Covenants and Restrictions;

(9) in the event that the Project is abandoned, requires closure, monitoring and maintenance of the Site as a landfill in operation since 2000, in accordance with 6 NYCRR Part 360-2.15 and Special Condition 36 of the Permit; and

(10) may be modified by mutual agreement of the City or its successors and the Department or its successor agency.

IN WITNESS WHEREOF, the undersigned have executed this instrument on the day(s) written below.

_____
New York City Department of Parks and Recreation

Sworn to before me
this ____ day of _____, 201__

_____
Notary Public

Approved as to form
this ____ day of _____, 201__

_____
Assistant Corporation Counsel

_____
Department of Citywide Administrative Services

Sworn to before me
this ____ day of _____, 201__

_____
Notary Public

Approved as to form
this ____ day of _____, 201__

_____
Assistant Corporation Counsel

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DEC PERMIT NUMBER:		EFFECTIVE DATE:
2-6006-00014/00013 (SW) 2-6006-00014/00016 (TW)	PERMIT Under the Environmental Conservation Law (ECL)	May 21, 2014
FACILITY: Ferry Point Park Golf Course		**EXPIRATION DATE:** May 20, 2024

TYPE OF PERMIT: ☐ New ☒ Renewal ☒ Modification ☐ Permit to Construct ☐ Permit to Operate

☒ Article 27, Title 7; 6 NYCRR 360: Solid Waste Management

☐ 6 NYCRR 608: Water Quality Certification

☐ Article 15, Title 15: Long Island Wells

☐ Article 17, Titles 7, 8: SPDES

☒ Article 25: Tidal Wetlands

☐ Article 15, Title 5: Protection of Waters

PERMIT ISSUED TO:	TELEPHONE :
Owner and Operator: NYC Department of Parks and Recreation	212-360-8111(NYCDPR)
ADDRESS OF PERMITTEE: NYCDPR, 830 5th Avenue, New York, NY 10021-7001	
CONTACT PERSON FOR PERMITTED WORK: Kay Zias	**TELEPHONE :** 718-760-6748

PROJECT/FACILITY NAME: Ferry Point Park Golf Course Construction

PROJECT/FACILITY ADDRESS: Eastern portion of Ferry Point Park, bounded by the Bronx Whitestone Bridge, Balcom, Miles and Emerson Avenues, Schley Avenue and the East River, Bronx County. Block 5583, Lot 100, Block 5622, Lot 1

DESCRIPTION OF AUTHORIZED ACTIVITY:

Construction of a Golf Course, Community Park and Waterfront Park on 222 acres of Ferry Point Park, requiring a total of approximately 2,514,000 cubic yards of material in-place volume. This material will be imported to the Site by truck and consist exclusively of: 1) recognizable and uncontaminated concrete or concrete products (including steel or fiberglass reinforcing rods that are embedded in the concrete), brick, soil, sand, gravel, and rock (hereafter referred to in this permit as select exempt construction and demolition debris) totaling approximately 2,120,000 in-place cubic yards for the shaping layer, and 2) approximately 394,000 in-place cubic yards of cover material. The imported material will be used to attain the final approved grades and contours.

All work associated with the authorized activity described above shall comply with all of the applicable provisions of 6 NYCRR Part 360 (Solid Waste Management Regulations), effective 29 September 1997. By acceptance of this permit, the Permittee agrees that this permit is contingent upon strict compliance with the ECL, all applicable regulations, and the General Conditions and Special Conditions included herein.

REGIONAL PERMIT ADMINISTRATOR:	ADDRESS:	
John F. Cryan	NYS Department of Environmental Conservation 47-40 21st Street, Long Island City, NY 11101	
AUTHORIZED SIGNATURE: John F. Cryan	DATE May 21, 2014	Page 1 of 17

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The Permittee has accepted expressly, by the execution of its application for the subject work, the full legal responsibility for all damages and costs, direct or indirect, of whatever nature and by whomever suffered, for liability it incurs resulting from activity conducted pursuant to this permit or in noncompliance with this permit and has agreed to indemnify and save harmless the State from suits, actions, damages, and costs of every name and description resulting from such activity.

Item B: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the Permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the subject work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

GENERAL CONDITIONS

General Condition 1: Facility Inspection by the Department

The subject facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the Permittee is complying with this permit and the ECL. Such representative may order the subject work suspended pursuant to ECL 71-0301 and SAPA 401(3).

The Permittee must provide a person to accompany the Department's representative during an inspection of the subject facility when the Department provides written or verbal notification to the Permittee at least 24 hours prior to such inspection.

A copy of this permit, including all general and special conditions therein, all amendments thereto, and all documents referenced therein must be available for inspection by the Department at the project site at all times that activity associated with the subject work is occurring. Failure to produce a copy of such permit, conditions, amendments, or documents upon request by a Department representative is a violation of this permit.

Any sign provided by the Department with this permit must be protected from the weather and posted in a conspicuous location at the subject work site throughout the period during which any of the subject work occurs.

General Condition 2: Relationship of this Permit to Other Department Orders and Determinations

Unless expressly provided for by the Department, this permit does not modify, supersede, or rescind any order or determination previously issued by the Department or any of the terms, conditions, or requirements contained in such order or determination.

General Condition 3: Applications for Permit Renewals or Modifications

The Permittee must submit a separate written application to the Department for renewal, modification, or transfer of this permit, including but not limited to a change in facility operator. Such application must include any forms or supplemental information the Department requires. Any renewal, modification, or transfer granted by the Department must be in writing. The Permittee must submit a renewal application at least:

a) 180 days before expiration of permits for State Pollutant Discharge Elimination System (SPDES), Hazardous Waste Management Facilities, major Air Pollution Control (APC) and Solid Waste Management Facilities; and
b) 30 days before the expiration of all other permit types.

Submission of applications for permit renewal, modification, or transfer are to be submitted to:
NYSDEC Regional Permit Administrator, Region 2, 47-40 21 Street, Long Island City, NY 11101 (tel. 718/482-4997).

General Condition 4: Permit Modifications, Suspensions, and Revocations by the Department

The Department reserves the right to modify, suspend, or revoke this permit when:

a) the scope of the permitted activity is exceeded or a violation of any condition of the permit or provisions of the ECL and pertinent regulations is found;
b) the permit was obtained by misrepresentation or failure to disclose relevant facts;
c) new material information is discovered; or
d) environmental conditions, relevant technology, or applicable law or regulation have materially changed since the permit was issued.

General Condition 5: Compliance with Other Regulatory Requirements

The Permittee is responsible for obtaining any other permits, approvals, lands, easements, and rights-of-way that may be required for the subject work. The Permittee and its independent contractors, employees, agents, and assigns must comply with all applicable local, State, and federal regulatory requirements.

General Condition 6: Permittee to Ensure that its Contractors to Comply with Permit

The Permittee must ensure that its independent contractors, employees, agents, and assigns read, understand, and comply with this permit, including all General and Special Conditions herein, in general, and General Condition No. 5, above, in particular. Such persons must be subject to the same sanctions for violations of this permit as those prescribed for the Permittee.

ADDITIONAL GENERAL CONDITIONS FOR ARTICLE 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

7. That if future operations by the State of New York require an alteration in the position of the structure or work herein authorized, or if, in the opinion of the Department it shall cause unreasonable obstruction to the free navigation of said waters or flood flows or endanger the health, safety or welfare of the people of the State, or cause loss or destruction of the natural resources of the State, the owner may be ordered by the Department to remove or alter the structural work, obstructions, or hazards caused thereby without expense to the State, and if, upon the expiration or revocation of this permit, the structure, fill, excavation, or other modification of the watercourse hereby authorized must not be completed, the owners, must, without expense to the State, and to such extent and in such time and manner as the Department may require, remove all or any portion of the uncompleted structure or fill and restore to its former condition the navigable and flood capacity of the watercourse. No claim shall be made against the State of New York on account of any such removal or alteration.
8. The State of New York must in no case be liable for any damage or injury to the structure or work herein authorized which may be caused by or result from future operations undertaken by the State for the conservation or improvement of navigation, or for other purposes, and no claim or right to compensation shall accrue from any such damage.
9. All necessary precautions must be taken to preclude contamination of any wetland or waterway by suspended solids, sediments, fuels, solvents, lubricants, epoxy coatings, paints, concrete, leachate, or any other environmentally deleterious materials associated with the project. Any creosote-treated lumber must be weathered for at least six months before it is brought to the subject work site.
10. Any material dredged in association with the work herein permitted must be removed evenly, without leaving large refuse piles, ridges across the bed of a waterway or flood plain, or deep holes that may have a tendency to cause damage to navigable channels, the banks of a waterway, water quality, sediment quality, or benthic habitat.
11. There must be no unreasonable interference with navigation by the work herein authorized.
12. If upon the expiration or revocation of this permit, the project hereby authorized has not been completed, the Permittee must, without expense to the State, and to such extent and in such time and manner as the Department may require, remove all or any portion of the uncompleted structure or fill and restore the site to its former condition. No claim shall be made against the State of New York on account of any such removal or alteration.
13. If granted under Article 36, this permit does not signify in any way that the project will be free from flooding.
14. If granted under 6 NYCRR Part 608, the Department hereby certifies that the subject project will not contravene effluent limitations or other limitations or standards under Sections 301, 302, 303, 306, and 307 of the Clean Water Act of 1977 (PL 95-217) provided that all of the conditions listed herein are met.
15. In accordance with Title 19, Part 600.4 (c) of the New York Code of Rules and Regulations, the Department hereby certifies that the action described and approved in this permit, if located within the Coastal Zone, is consistent to the maximum extent practicable with the policies and purposes of the New York City Waterfront Revitalization Program.

SPECIAL CONDITIONS

Site Work

1. All activities authorized by this permit shall conform to all documents supporting the original permit, DEC No. 2-6006-00014/00011, dated July 17, 2000 ,and modified October 18, 2002 , November 18, 2005 and December 27, 2005 as modified by the following:

- Technical Environmental Assessment for the Ferry Point Park Recreation Facility prepared by Allee, King, Rosen and Fleming dated February 11, 2002 and amended September 29, 2004;
- Geotechnical Engineering Study prepared by Langan Engineering and Environmental Services, Inc. dated July 2, 2002;
- Response to Request for Additional Information prepared by TRC Raymond Keyes Associates dated July 2, 2002;
- Fill Procurement Protocol shall be as per the Department letters dated May 21, 2001 and May 23, 2001 from John Nehila to Steve Kass;
- Ferry Point Park: Offsite Methane Monitoring-Bronx, New York prepared by AKRF, Inc., October 12, 2001;
- Landfill Gas (LFG) Passive Vent Trench Along Miles And Emerson Avenues Plan and Detail, V-1, Sheet 1 of 4 prepared by TRC with checked date 02/04/02 ;
- Landfill Gas (LFG) Passive Vent Trench Along Balcom, Miles And Schley Avenues Plan and Detail, V-2, Sheet 2 of 4 prepared by TRC with checked date 02/04/02 ;
- Landfill Gas (LFG) Passive Vent Trench Along Northern Property Boundary Plan and Detail, V-3, Sheet 3 of 4 prepared by TRC with checked date 02/04/02;

SPECIAL CONDITIONS
ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

- LFG Vent Trench and Piezometer Network Profile, V-4, Sheet 4 of 4 prepared by TRC with checked date 02/04/02;
- Landfill Gas (LFG) Passive Vent Trench Along Balcom, And Schley Avenues Plan and Detail, C-2, Sheet 1 of 1 prepared by TRC with checked date 07/20/01;
- Landfill Gas (LFG) Passive Vent Trench Along Balcom between Sampson & Dewey Avenues Plan and Detail, C-1, Sheet 1 of 1 prepared by TRC with checked date 03/09/01;
- Volume#1, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY, Engineering Report, prepared by TRC Raymond Keyes Associates, dated June 30, 2005. (revised)
- Volume #2, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY, Engineering Report, prepared by TRC Raymond Keyes Associates, dated June 30, 2005.
- Settlement Evaluation and Long Term Monitoring Plan, Ferry Point Golf Course, Ferry Point Park, Bronx, NY, prepared by Langan Engineering and Environmental Services, Inc., dated January 26, 2005.
- Response to Department Comments prepared by TRC Raymond Keyes Associates, dated August 2, 2005 and by Langan Engineering and Environmental Services, Inc., dated June 30, 2005.
- Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY, "Second Supplement to Engineering Report," prepared by TRC Raymond Keyes Associates, dated August 23, 2004.
- Site plans labeled "Ferry Point Park Public Recreational Facility Bulk Earthwork, Ferry Point Park Public Recreation Facility, Ferry Point Park, Bronx, New York" prepared by TRC Raymond Keyes Associates, dated April 22, 2005 (revised) consisting of drawings:

    - GC-2, G1 and G-2 dated 7/01/05 (last revised);
    - G-3, and G-4 dated 1/21/05 (last revised);
    - D-1 dated 7/1/04 (last revised);
    - D-2 dated 7/1/05 (last revised);
    - V-1, V-2, V-3 and V-4 dated 02/04/04 (last revised);
    - C-1 dated 3/09/01 (last revised);
    - C-2 dated 7/20/01;
    - SW-1.00 dated 4/13/04;
    - SW 1A.01 dated 2/18/04;
    - SW 1B.01 and SW 1b.02 dated 4/13/04;
    - Irrigation Design Phase 1 Ferry Point Park Approval Set, labeled "Ferry Point Park 0514-AS-R04-060704, Phase 1 Approval Set" dated 06/07/04 (last revised), sheets numbered 1, 2, 3 and 4 dated 5/22/03 and sheets numbered I, II and III dated 5/22/03

- Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East Bronx, NY, Vol. 1 - 3 dated May 31, 2012 and last revised October 15, 2013.

SPECIAL CONDITIONS
ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

2. Activities authorized by this permit include development of a golf course and parks, as well as the construction of associated structures, utility lines, gas venting and control systems. All aspects of the project must be constructed in accordance with the Department approved design plans, specifications and documents noted in Special Condition # 1. All physical aspects of the project including project location referenced in this permit shall be referred to as the "Site." All construction aspects of the permitted activities referenced in this permit shall be referred to as the "Project."

3. In accordance with "Item A" of the Notification of Other Permittee Obligations" found on page 2 of this permit, the Department in general accepts no liability for the structural integrity and/or the adequacy of the buildings and/or foundation designs of the proposed buildings or other structures associated with the development of the golf course. In addition, the Department specifically does not guarantee nor accept liability in regards to the measures proposed to prevent the subsidence of any buildings, foundations and other structures built on or adjacent to the Site, or to prevent the migration of explosive gas.

4. All operations at the Site shall occur Monday through Saturday during daylight hours, between sunrise and sunset, unless otherwise authorized by the Department.

5. All truck traffic entering and leaving the Site shall use only authorized truck traffic routes, and conform to the construction traffic management plans noted in Exhibit K of Volume #1, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, New York, Engineering Report, prepared by TRC Raymond Keyes Associates, dated June 30, 2005 (revised).

a) All truckers shall receive written instruction on the truck access routes to and from the Site.

b) All trucks entering the site shall be tarped or sufficiently covered to comply with local and state highway regulations. The Site access and exit routes shall be maintained so that they are free from dust, dirt and debris resulting from the truck traffic.

6. Short-term settlement monitoring must strictly conform to the recommendations listed in the Settlement Evaluation and Long Term Monitoring Plan, Ferry Point Golf Course Ferry Point Park, Bronx, NY, prepared by Langan Engineering and Environmental Services, Inc., dated January 26, 2005. As construction progresses and long term plates are installed, short term plates do not need to be re-installed.

7. The long-term settlement monitoring must strictly conform to the recommendations listed in the Settlement Evaluation and Long Term Monitoring Plan, Ferry Point Golf Course Ferry Point Park, Bronx, NY, prepared by Langan Engineering and Environmental Services, Inc., dated January 26, 2005.

a) The long-term monitoring shall be performed for locations shown in Appendix H of the October 15, 2013 supplemental engineering report as described in Appendix I of the October 15, 2013 supplemental engineering report.

b) All monitoring points must be maintained in proper working condition. If any points are unable to be sampled for any reason, they must be repaired within two weeks of such detection and re-tested.

Fill Importation

8. The Permittees are authorized to import a total of 2,514,000 cubic yards of in-place fill material to the Site. The fill material shall consist of approximately 2,120,000 cubic yards of select exempt construction and demolition (C&D) debris for the shaping layer, and approximately 394,000 cubic yards of cover material. The imported material shall be used on Site to attain the final approved grades and contours approved by the Department, and referenced on plans made a part of this permit.

a) The use of asphalt as fill material on the Site is prohibited.

b) The use of dredge spoils as fill material on the Site is prohibited.

c) There shall be no mechanical separation of steel and fiberglass reinforcing rods from concrete and concrete products at the Site.

d) No size reduction or material processing may occur on Site, except with earth moving equipment in the course of placement. However, the breakdown and removal of stumps and wood previously left on Site by the New York City Department of Sanitation (DOS) is permitted.

e) All solid waste material excavated from the Site shall be properly secured immediately, and then removed from the Site and legally disposed of within seven (7) days.

f) All unauthorized solid waste or fill material found on the Site shall be properly secured immediately, and then removed and legally disposed of within five (5) days of its discovery by Permittees.

g) All select exempt construction and demolition (C&D) debris for the shaping layer and the cover layer material must be free of all non-exempt C&D recognizable debris.

9. The quantification of all imported fill material shall be continuously tracked by both truck volume, and periodic topographic survey of the imported in-place fill volume. Since compacted in-place fill volumes will not equal truck volumes of fill, a 41.7 percent (41.7%) correction factor shall be applied for shaping layer material and a correction factor of 18 percent (18%) shall be applied for cover material. The correction factor for converting truck volume into in-place volume may be modified by the Department.

10. The Permittees must cease the importation of fill material if:

a) The final approved grades are attained prior to the permitted amount of fill material being imported;

b) 2,120,000 cubic yards of select exempt construction and demolition debris for the shaping layer, as measured by in-place fill volume determined through topographic survey, are accepted. All material imported to the Site is considered shaping layer material, unless testing determines otherwise; or

c) 394,000 cubic yards of cover layer material, as measured by in-place volume, are accepted.

SPECIAL CONDITIONS

ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

11. Use of fill material from DEC registered construction and demolition debris processing facilities (DEC registered C&D facilities or registration facilities) requires written Departmental approval. Such requests must be submitted to the Department for approval not less than ten (10) business days prior to any proposed date for importation from the new locations. No fill material may be received from unapproved facilities or locations. DEC registered construction and demolition debris processing facilities (DEC registered C&D facilities or registration facilities) may be used to obtain select exempt construction and demolition debris for fill material to the Department for its approval prior to use. The subsequent transportation and use of fill material from other additional registration facilities requires written Departmental approval. Such requests must be submitted to the Department for approval not less than ten (10) business days prior to any proposed date for importation from the new locations. No fill material may be received from unapproved facilities or locations.

12. Select exempt construction and demolition debris to be used as fill material at the Site may be accepted from DEC registered C&D facilities as approved pursuant to Special Condition #11, provided that the facilities segregate and clearly mark each stockpile with a specific identification number, the date each stockpile was started and the date when it was sampled by the Permittees. The Department shall be notified by Permittees at least 24 hours before any sampling event at a DEC registered C&D facility. All sampling reports shall be transmitted to the Department or the IEM directly from the certified testing laboratory.

13. The Permittee shall be responsible for ensuring that cover layer material is procured from a DEC approved source, and it meets all permit specifications.

a) If cover layer material is manufactured, the soil used in its manufacture must not originate from any industrial sites, brownfield site, historical fill site or DEC registered C&D facilities.

14. The Permittee shall be responsible for ensuring that the shaping and cover layer materials meet sections 4.2.1 and section 4.3 of the October 15, 2013 Supplemental Engineering Report, Volume 1, as well as the following:

a) In order for select exempt construction and demolition debris material to be used on Site, it must be sampled both prior to acceptance and after the importation of each additional 10,000 cubic yards (in truck volumes). Each soil sample is to be analyzed for Toxicity Characteristic Leachate Procedure (TCLP), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and metals (including Resource Conservation and Recovery Act (RCRA) metals).

b) Cover layer material must be sampled prior to acceptance and after the importation of each additional 2,000 cubic yards (in truck volumes). Each soil sample is to be analyzed for the entire analyte list in the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046, total volatile organic compounds (VOCs), total semi- volatile organic compounds (SVOCs), pesticides and herbicides, polychlorinated biphenyls (PCBs), and metals (including Resource Conservation and Recovery Act (RCRA) metals).

c) The shaping layer must meet the following chemical limits:

i. Total carcinogenic SVOC levels (weighted average as calculated by formula provided in 10/25/06 letter from NYSDEC) must be less than 3 ppm by completion of construction; maximum carcinogenic SVOCs level from individual source must be 10 ppm or less. The following are the list of carcinogenic SVOCs that are subject to this 3 ppm limit: Benzo(a)pyrene, Dibenzo(a,h)anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Indeno(1,2,3-cd)pyrene, Benzo(k)fluoranthene, and Chrysene.

ii. Total SVOCs must be less than 500 ppm

iii. Metals:

- Arsenic less than 28 ppm;
- Barium less than 2,000 ppm;
- Cadmium less than 20 ppm;
- Chromium less than 1,000 ppm;
- Copper less than 1000 ppm;
- Lead less than 400 ppm;
- Mercury less than 0.57 ppm
- Selenium less than 11 ppm
- Silver less than 100 ppm

iv. Asbestos for all layers must be 0.5% or less

v. Total sulfur for all layers must be 0.5% or less

vi. Total PCBs less than 10 ppm

vii. Total Pesticides less than 10 ppm

viii. VOCs (all individual analytes less than TAGM 4046)

d) The final placement of shaping and cover layer materials is subject to installation of a demarcation layer at locations where combined shaping and cover layers thickness are less than five (5) feet.

e) All shaping and cover layer material placed after the final placement of shaping and cover layer must meet the 6NYCRR Part 375 protection of public health restricted residential Part 375-6.8(b) SCOs.

15. The major components (greens, contours, heights and top soil) of the cover layer shall meet the Nicklaus Design Technical Specification, as noted in Exhibit C of the June 30, 2005 Engineering Report, and as follows:

- Greens - Greens mix imported to the site shall be tested as per material testing requirements. Fertilizer and soil amendments may be applied on the greens mix after spreading to construction specifications and finally grassed, as per the specifications provided by the agronomist.
- Topsoil - Topsoil imported shall be consistent with native topsoil, and shall be free of rock and debris greater than three quarters of an inch, as per Exhibit C of the Engineering Report. Soil amendments, fertilizer applications and seed may be applied to tee, fairway and rough areas, as per Exhibit C of the June 30, 2005 Engineering Report.

16. The Department may conduct joint sampling or take split samples as necessary for verification purposes.

Groundwater

17. The Permittee shall implement a groundwater monitoring program as described in section 4.5 of the Supplemental Engineering Report, Volume 1, dated October 15, 2013.

Fill Progression Monitoring

18. The Permittee shall place grade stakes indicating elevations for proposed final grades of fill and cover material.

19. The Permittee shall place benchmarks throughout the Site, in a manner acceptable to the Department, for the purpose of periodically measuring and surveying fill elevations. Benchmarks are to be maintained at all times. If it becomes necessary, they shall be repaired promptly.

Project Completion Schedule

20. The project shall progress according to the Construction Schedule provided in Volume #1, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY, Engineering Report, prepared by TRC Raymond Keyes Associates, dated June 30, 2005 (as revised), Exhibit A, and as updated in section 3.1 of the Supplemental Engineering Report dated October 15, 2013. The effective date for implementation of the construction schedule is the effective date of this permit.

21. In accordance with the approved plan in Special Condition #1, placement of fill material in each section of the Site shall not exceed the designed and approved final contours for each section.

22. Only cover material may be stockpiled in a section upon completion of the placement of fill material for the shaping layer in that section as per design calculations. In addition, cover material may be stockpiled in a section where the completion of fill placement has not occurred, if such stockpile is segregated and secured from construction and demolition debris used for the shaping layer.

23. Upon completion of filling operations to approved grades in a section, the Permittees shall commence the rough shaping and placement of cover material, and the installation of drainage, irrigation and utilities, as per Construction Schedule noted in Special Condition # 20. Prior to placement of this cover material, Permittee must comply with the requirements of Special Condition # 15(d).

Independent Environmental Monitor

24. An Independent Environmental Monitor (IEM), accountable to the Department, shall be retained by the Permittee to provide environmental oversight of all activities authorized by this permit for the duration of its permitted term, including, but not limited to, the quantification, importation and placement of fill, and the monitoring of the Site.

SPECIAL CONDITIONS

ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

a) It shall be the IEM"s responsibility to provide notice of any deviation from the activities authorized by this permit and any deviation from New York State Environmental Regulations (6NYCRR Part 360) to the Department immediately, but in no event later than 24 hours after such deviation is detected. This notification must include the date and time of the potential non-compliance, the nature of the non-compliance, any corrective action, and any additional measures the IEM will be undertaking to track the issue until corrected. Should the IEM be uncertain as to whether such a deviation has occurred, the matter shall be promptly reported to the Department for a determination. For the purposes of this permit, a deviation(s) shall mean any of the following:

i. An apparent violation of any condition of this permit;

ii. An apparent violation of Federal, State or Local Law;

iii. A material difference between construction or monitoring data obtained by the Permittees or their consultants, and that obtained by the IEM;

iv. Any receipt of fill that does not meet the specifications authorized in this permit;

v. Any receipt of fill from a site not authorized under the permit or by the Department.

vi. Any condition, activity or occurrence that may endanger or pose a threat to public health, safety or the environment.

b) Notwithstanding any other reporting this permit requires, the IEM shall submit a detailed written report to the Department no less frequently than every three months detailing the IEM"s activities at the Site, the estimated total volume of fill material (including cover material) received during the reporting period based on truck volume, the total volume of fill in place at the Site, the percentage of filling to final grades, and the number(s) of trucks prohibited from entering the Site. The report also shall summarize any site meetings amongst the Permittee, its consultants or others, verify that all samples taken and monitoring done at the Site by the Permittee or consultants conform to this permit, detail any substantive change in the condition of the Site or project, fully explain any deviations occurring during the reporting period and their disposition, and describe any other occurrence, circumstance or condition that may have a bearing upon the safe and environmentally sound operation of the Project or Site.

c) The IEM must be approved by the Department prior to the finalization of any contractual agreement with the Permittee, and the initial receipt of any fill material at the Site.

d) The continued retention, discharge, or replacement of the IEM shall be at the sole discretion of the Department. The Permittee waive any right to seek judicial review of the Department's exercise of that discretion. The Permittees must fully pay all invoices and bills from the IEM within sixty days of submission. The IEM or its Department approved representative shall be present on Site whenever it is open. Under no circumstances shall Project activities, including the receipt or management of fill, take place while the IEM or its designated representative is absent from the Site.

SPECIAL CONDITIONS

ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

e) The Department shall have access to any information obtained by the IEM at any time. The IEM shall keep all information including, but not limited to, fill records, inspection reports, field notes, monitoring data, graphics, databases, financial records, minutes of meetings and other information in a form approved by the Department

f) The IEM, if an individual, shall possess a New York State Professional Engineer license. If an engineering firm serves as the IEM, the firm must provide an employee of that firm who is a New York State licensed professional engineer to perform all functions and certifications noted in Section 1.1 of the Engineering Report referenced in Special Condition No. 1 above. In addition, the IEM shall:

i. monitor all aspects of the Permittees" fill operations at the Ferry Point Park ("FPP") facility;

ii. have unrestricted access to all personnel employed by the Permittee at the FPP facility, and to all files and records maintained by the Permittees at the FPP facility pursuant to this permit;

iii. inspect the proposed sources of fill, review the documentation about the sources of the material, including without limitation, any off-site sampling, and certify as to the acceptability of the material for use at the Site, in accordance with the criteria specified in the Engineering Report, Section 2. The IEM shall notify the Department at least 24 hours before any on-site sampling;

iv. visually inspect each truckload of imported fill material at the Site, and undertake reasonable verification activities including directing, where appropriate, verification sampling, analysis and certification by the IEM on a Project specific tracking form that it meets criteria for acceptable fill at the Site;

v. inspect each truckload of material upon its dumping on Site with a Photo-Ionization Detector (PID).

vi. prohibit any truck from leaving the dumping area before the load has been inspected, and the manifest signed by the IEM. If any load is rejected, the rejected fill material shall be reloaded onto the same truck immediately and legally transported off-site. However, if the rejected fill material is a DEC regulated solid waste or hazardous waste, it must be segregated immediately and secured on-site, until it is removed by a DEC permitted hauler for appropriate disposal. Such regulated or hazardous waste must be removed from the Site within 3 days of its discovery;

vii. monitor the off loading of all material at the unloading station. No truck shall be allowed to off load unless the IEM is present. Such truck shall only be allowed to leave the station after the load is tested and found acceptable.

viii. certify that the sampling of material at the project Site conforms to the permit requirements, and review the results of all laboratory tests;

ix. notify the Department daily about the receipt of unacceptable material or any violations of conditions set forth in this permit;

x. maintain files on Site of fill sampling data, site histories, and internal manifest (tracking) forms;

xi. report and certify to the Department that the on-site gas well monitoring has been conducted as required by this permit. Notify the Department immediately if levels exceed 25% of the lower explosive limit (LEL) in any gas monitoring well;

xii. certify that: (a) all grades of the shaping layer of a section are correct prior to the placement of cover material on that section; (b) a minimum of two feet of fill material covers the existing municipal solid waste layer; and (c) the final cover layer meets the appropriate specifications of the Engineering Report noted in Special Condition #1;

xiii. during fill delivery and earthwork, submit bi-weekly reports to the Department summarizing all Site activities set forth by this permit. Each report shall provide details of all rejected fill material, quantify the amount of material imported onto the Site using truck volumes, and the results of all on-site gas monitoring for that period;

xiv. review the final post-construction report and provide comments to the Department on whether the fill operation was performed in accordance with the permit documents and including any deviations thereof. These comments must be submitted by the IEM to the Department within sixty (60) calendar days of the receipt of the final post construction report, certify that the fill operation was performed in accordance with the permit documents. The certified post-construction report must be submitted by the IEM to the Department within sixty (60) calendar days after the completion of the earthwork portion of the Project;

xv. report all operational upsets, emergencies, unusual circumstances (including, but not limited to, unauthorized entries, security breaches, equipment breakdowns, fires, thefts, acts of vandalism, and on-site accidents) to the Regional Solid Waste Engineer by telephone (at 718/482-4996) within 24 hours of the occurrence, and in writing within 3 business days advising the engineer of the nature of the event, and providing a description of how the event was handled.

Gas Venting Trench

25. During the duration of this permit, the Permittee shall inspect the gas venting trench monthly to verify the integrity of the venting trench and its mulch cover. The Permittee shall maintain the gas venting trench at all times, and promptly repair any soil washouts of the mulch cover, as necessary. If any portion of the venting trench or mulch cover is found in need of repair, this fact must be reported to the IEM immediately and all necessary repairs must be made within two weeks of discovery.

(SC 25 continued) In addition, the mulch cover shall be replaced, at a minimum, every spring to maintain the effectiveness of the gas venting trench. The Permittee shall maintain the gas venting trench after the completion of construction of the golf course in the manner described in the Supplemental Engineering Report, Volume 3, Appendix F.

26. Monthly monitoring of the gas venting trench shall continue for the duration of the permit.

27. **As required by the Custodial Care Plan**: Gas venting trench inspection reports shall include the inspection date, the name of inspector, and a description of repairs, monitoring results and maintenance performed. A log of these self-inspections must be maintained including the dates, times and results of the inspections.

Piezometers

28. The Permittee shall conduct monthly monitoring of the depth of ground water in each piezometer installed at the gas venting trench, until the completion of the construction of the golf course. All readings shall be submitted to the Department in a monthly report.

a) **As required by the Custodial Care Plan**: Post-construction piezometers monitoring shall be performed in accordance with the Supplemental Engineering Report dated October 15, 2013, Volume 3, Appendix F, Section 6.

29. Within sixty (60) days of receipt of this permit, the Permittee shall submit a Response Action Plan to the Department. This Plan shall set forth the measures to be implemented by the Permittee, if the piezometer readings indicate that the groundwater table has dropped below the depth of the gas venting trench during the post construction monitoring period.

30. The Permittee shall sample the perimeter gas monitoring wells #0, #1A, #1 to #3, #5 to #12, and #14 to #18, and the on-site monitoring wells #13 and #19 on a bi-weekly basis to detect any explosive gas migration. Copies of the bi-weekly monitoring field notes shall be electronically mailed to the Department within 24 hours after the sampling event and a copy of this report shall be submitted to the Department within 3 business days and reported to the IEM immediately and all necessary repairs must be made within two weeks of discovery.

31. All perimeter gas monitoring wells should be tested at least on a bi-weekly basis. However, if any individual monitoring point has a bi-weekly reading that equals or exceeds 100% LEL or three consecutive bi-weekly reading are greater than 25% LEL, a modified methane gas action plan shall be implemented by the Permittee. Such plan shall require, at minimum, weekly testing of the individual monitoring point(s) with the elevated readings. The Department also may require any additional measures it deems necessary. Any individual point under the modified methane gas action plan may return to the regular bi-weekly monitoring schedule, when three (3) consecutive weekly readings are all less than the 25% LEL action level.

SPECIAL CONDITIONS

ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

Deed Restriction

32. Within thirty (30) days of the date of the issuance of this permit, the Permittee shall submit a draft Deed Restriction to the Regional Permit Administrator. The deed restriction, which shall run with the land in perpetuity, shall recite and require compliance with this permit's provisions as regards to the custodial care requirements described in the Supplemental Engineering Report dated October 15, 2013, Volume 3, Appendix I. The deed restriction must be filed within six (6) months of the issuance date of this permit.

Off-site Gas Monitoring Network

33. The Permittee shall conduct bi-weekly monitoring of the Off-site Gas Monitoring Network. A copy of the bi-weekly monitoring field notes shall be electronically mailed to the Department within 24 hours, and a copy of the monitoring report shall be submitted to the Department within 3 days of the completion of each round of monitoring.

a) **As required by the Custodial Care Plan**. Each bi-weekly monitoring report shall include the geoprobe monitoring point(s) installed on or near Buttrick, Schley, Balcom, Miles and Emerson Avenues, as described in the methane monitoring reports referenced in Special Condition #1 of this permit.

34. The Permittee shall maintain, and upgrade if required, the Off-site Gas Monitoring Network during facility construction and after completion of the golf course.

a) The Permittees may request Departmental approval to substitute for all, or part of, the Off-site Gas Monitoring Network by installing geoprobe soil gas monitoring points of a placement and design suitable to the Department. Such points must be at linear intervals no greater than 50 feet (on 50-foot centers) along either segments of the perimeter boundary of the gas venting trench or the drainage ditch.

b) If any point used for off-site gas monitoring is found to require repairs, this fact must be reported to the IEM immediately and all necessary repairs must be made within two weeks of discovery. A copy of the off-site gas monitoring well results also must be sent to the New York City Housing Authority.

c) All off-site gas monitoring points shall be tested on a bi-weekly basis. If any individual monitoring point has a bi-weekly reading that equals or exceeds 100% LEL, or three consecutive bi-weekly readings that are greater than 25% LEL, sampling of that point shall be done weekly. Any individual point under the later modified methane gas action plan may return to the regular bi-weekly monitoring schedule, if there are three (3) consecutive weekly readings all less than the 25% LEL action level.

d) None of the requirements specified in Special Conditions Nos. 26 through 34, 36 (a) through (c) may be terminated without written approval from the Department.

SPECIAL CONDITIONS

ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

Ferry Point Park East Post Construction Custodial Care Plan (Custodial Care Plan)

35. Upon Department approval of the Permittee's written post construction certification report, Permittee shall implement the Custodial Care Plan described in Supplemental Engineering Report dated October 15, 2013, Volume 3, Appendix I, as referenced in Special Condition No. 1.

Project Abandonment and Environmentally Sound Closure

36. Should the Project be abandoned, the entire 222 acre Site must be closed, monitored and maintained after closure in accordance with 6 NYCRR Sect. 360-2.15 as a landfill in operation since 2000.

a) Within one hundred and twenty (120) days after notice from the Department that the Site has been deemed abandoned, the Permittee shall implement the custodial care plan contained in the Supplemental Engineering Report dated October 15, 2013, Volume 3, Appendix I, as referenced in Special Condition No. 1.
b) For the purpose of this permit, abandonment shall mean any of the following:
   i. Filling operations authorized under this permit cease for a period of 12 consecutive months, as provided in 6NYCRR sect 360-1.11(f);
   ii. Failure to complete the Project within 12 months of the issuance of this permit, as determined by the Department, by the expiration date of this permit; or
   iii. Termination of this Project as a result of enforcement action by the Department or another government agency for non compliance with this permit, or with applicable Federal, State or Local Law.
c) The terms of this Special Provision shall govern, if in conflict with the terms of General Condition No. 12.

Waterfront Park

37. Within one hundred and eighty (180) days of the effective date of this permit, provide three hard copies and one copy on CD of revised design plans for the Waterfront Park, to the Regional Permit Administrator. Include in this submission details on the extent of adjacent area and tidal wetlands encroachment, water balance, proposed mitigation (including mitigation for the pool barge), implementation plans and staging.

SPECIAL CONDITIONS

ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

Submittals

38. Within sixty (60) days of completion of the filling operation on the Site and construction of the earthwork portion of the Project, the Permittees shall provide:

a) as-built drawings of the Project, signed by a professional engineer licensed in New York State for DEC's approval. The post construction as built drawings shall, at a minimum, include detailed cross-sections illustrating the depth of fill placed and location of all utilities and associated structures, road ways, demarcation layer and storm water drainage control structures for the Project. The as-built plans also shall include the location of all monitoring and control systems and devices (including gas control and monitoring, water quality and elevation monitoring and settlement monitoring).

b) a written post-construction certification report for review and approval by the Department and certification by the Independent Environmental Monitor. This report shall include approved "as-built" drawings demonstrating that the earthwork and filling operation was accomplished in accordance with the Department approved plans and this permit. If as-built drawings are not approved by DEC within 120 days of the completion of the filling operation, the Site is deemed abandoned, as per Special Condition No. 36. This report and the as-built drawings cannot be done or submitted by the IEM.

39. Within ninety (90) days of approval of the post construction certification report, the Permittee shall submit an amended subsurface operations plan which includes relevant post construction storm water pollution prevention maintenance documentation as per the State Pollution Discharge Elimination System (SPDES) general permit for storm water discharges from construction activity.

40. Within sixty (60) days of the effective date of the permit, the Permittee shall submit a full size (24 inches by 36 inches) scaled, signed and sealed drawing showing construction of the irrigation lake passive venting system.

41. Thirty (30) days after approval of the construction certification report, the Permittee must provide to the Regional Solid Waste Engineer, a revised Table 6-1 (noted in the engineering report referenced in Special Condition #1 above).

42. Prior to the installation of any sub slab depressurization systems for onsite buildings, the Permittee must secure written approval of these systems from the NYS Department of Environmental Conservation and the NYS Department of Health.

43. All reports and written submissions shall be sent in duplicate to the regional office of the DEC, with an additional copy to DEC Central Office, and another copy to the document repository as noted below. Each submission shall have a transmittal page, which references the DEC permit number and the relevant Special Condition number.

SPECIAL CONDITIONS

ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

Samsudeen Arakhan
Regional Materials Management Engineer
NYS DEC, Region 2
47-40 21st Street
Long Island City, NY 11101

John Cryan
Regional Permit Administrator
NYSDEC, Region 2
47-40 21st Street
Long Island City, N.Y. 11101

David Vitale, Bureau Chief
Bureau of Solid Waste, Reduction, and Recycling
NYS DEC
625 Broadway
Albany, NY 12233-7253

FPP Golf Course Document Repository
New York City Department of Parks and Recreation
1 Bronx River Parkway
Bronx, NY 10462-2869

44. All notifications to the Department, as referenced in Special Conditions of this permit, shall be made to the Regional Materials Management Engineer, NYS DEC, 47-40 21st Street, Long Island City, NY 11101. All immediate, 24-hour, verbal or expedited notifications shall be made by telephone and electronic mail to the attention of Samsudeen Arakhan, Regional Solid Materials Engineer at: 718-482-4996 (phone) / skarakha@gw.dec.state.ny.us (email), or other numbers subsequently provided by the Department.

45. Copies of reports generated or reviewed by the Independent Environmental Monitor shall be maintained at the document repository referenced in Special Condition No. 43 above.

End of Special Conditions

APPENDIX B

List of Project Participants

City of New York Parks & Recreation
Joy Gutierrez, RA Architect
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City of New York
Parks & Recreation
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NYC ParksCapital Projects
Olmsted Center
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APPENDIX C

SSDS Construction Drawings Submitted by FPA to NYSDEC dated June 12, 2017

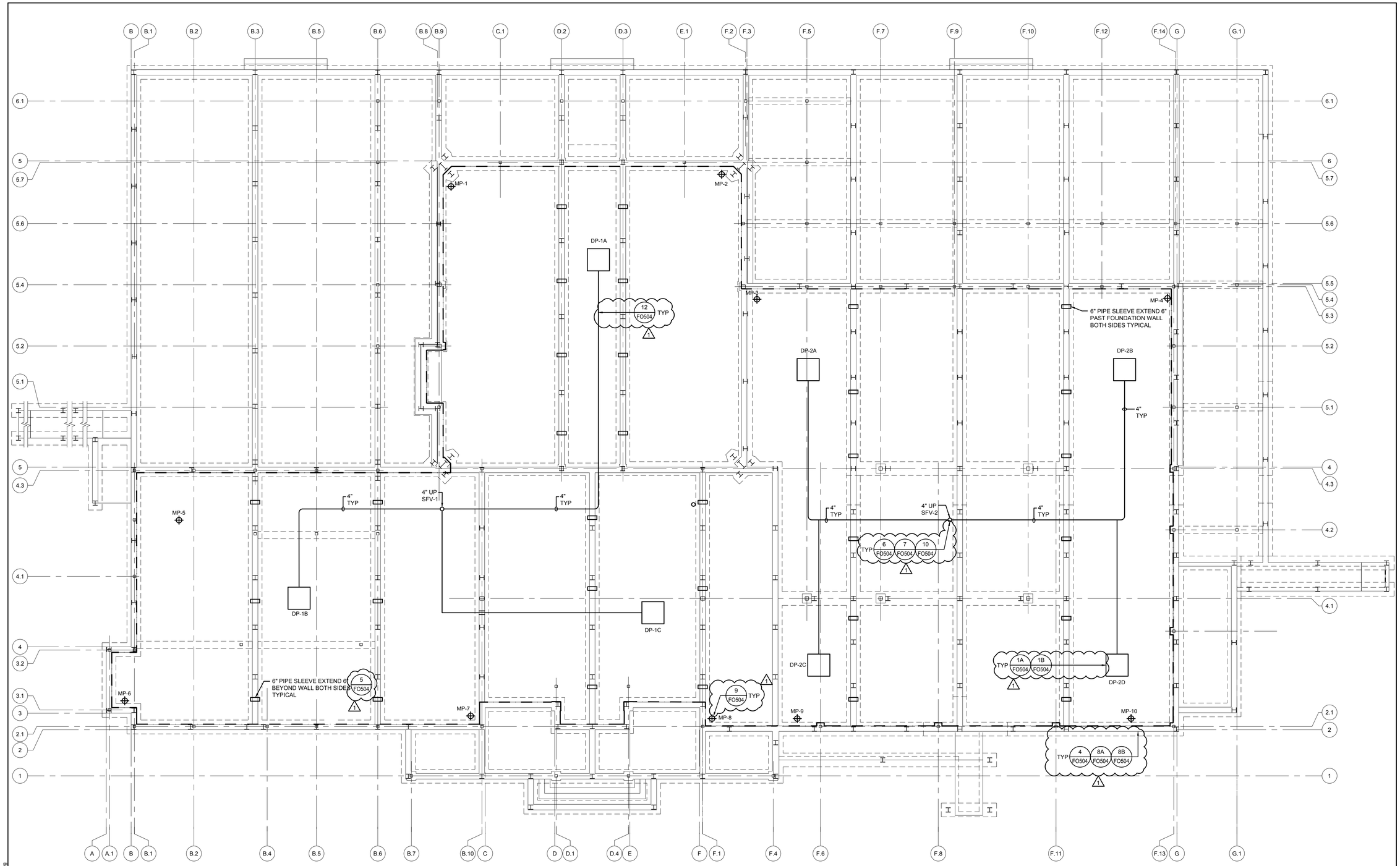

UNDERSLAB PLAN

SCALE: 1/8" = 1'-0"

NOTES :

1. DRAWINGS NOT TO BE USED FOR STRUCTURAL, ARCHITECTURAL OR OTHER REFERENCE EXCEPT FOR SUB-SLAB DEPRESSURIZATION SYSTEM.
2. THE EXTENTS OF BUILDING CONSTRUCTION BENEATH THE FLOOR SLABS SHALL BE LINED WITH GAS VAPOR BARRIER. AS PART OF BUILDING CONSTRUCTION, THE GAS VAPOR BARRIER SHALL ALSO BE APPLIED VERTICALLY TO BELOW GRADE WALLS AND WALLS OF PITS AND SUMPS AS SHOWN AND SPECIFIED.
3. SLOPE HORIZONTAL PIPE UNIFORMLY A MINIMUM OF 1% TOWARD SUB-SLAB DEPRESSION SYSTEM PITS OR TO CONDENSATE DRAINS WHEN PIPING CANNOT BE SLOPED TO PIT.
4. SECURE VERTICAL RISER TO WALL IN ACCORDANCE WITH ARCHITECTURAL AND PLUMBING REQUIREMENTS.
5. ELECTRICAL WIRING AND EQUIPMENT NOT SHOWN. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR REFERENCES.
6. SEAL ALL JOINTS IN SLAB ON GRADE, INCLUDING BUT NOT LIMITED TO, CONTROL JOINTS, EXPANSION JOINTS, CRACKS, WALL JOINTS, PENETRATIONS ETC. WITH NON-CRACKING CAULK. POLYURETHANE TYPE PREFERRED.
7. COORDINATE GAS VENTING SYSTEM WITH ALL TRADES, INCLUDE VENTING SYSTEM PIPING ON COORDINATION DRAWINGS.
8. ALL GAS VENTS SHALL BE CONTINUOUS FROM UNDERSLAB STONE BASE TO 36" ABOVE ROOF LINE OR PARAPET (WHICHEVER IS HIGHER). ALL VENTS SHALL BE 10'-0" MIN FROM LOT LINES, OUTSIDE AIR INTAKES, WINDOWS, ETC.
9. DRAWING ILLUSTRATES WALLS AND ALL SLAB ON GRADE FLOOR AREAS. COORDINATE THIS WORK WITH ARCHITECTURAL, MECHANICAL, AND STRUCTURAL PLANS.
10. ALL GAS VENT PIPING SHALL BE PVC PIPING. WHERE PIPING IS LOCATED IN RETURN AIR PLENUMS CHANGE MATERIAL TO NO-HUB CAST IRON PIPE.
11. LABEL GAS PIPING AT INTERVALS OF NOT MORE THAN 25 FT IN CONCEALED LOCATIONS AND NOT MORE THAN 50 FT ON EXPOSED AND NOT LESS THAN ONCE IN ANY ROOM OR SPACE.
12. GAS VAPOR BARRIER TO BE INSTALLED IMMEDIATELY BELOW FLOOR SLAB AS INDICATED ON THE STRUCTURAL DRAWINGS. PROVIDE 12" MINIMUM CLEAN #57 STONE SUB-BASE FOR GAS MITIGATION SYSTEM.
13. SLOPE HORIZONTAL PIPE A MINIMUM OF 1% UNIFORMLY TOWARD SUCTION PITS.
14. REFER TO SPECIFICATION FOR ADDITIONAL SUB-SLAB DEPRESSURIZATION SYSTEM AND ACCESSORIES REQUIREMENTS.

LEGEND

- EXTENT OF GAS PERMEABLE AGGREGATE LAYER BENEATH FLOOR SLAB
- 4" SCHEDULE 80 PVC PIPE
- SFV-1 — SUCTION FAN VERTICAL 4" RISER AND IDENTIFICATION NUMBER. EXTEND THRU ATTIC TO SUCTION FAN
- MP-1 — SUB-SLAB MONITORING POINT AND IDENTIFICATION NUMBER
- DP-1A — SUB-SLAB DEPRESURAIZATION PIT AND IDENTIFICATION NUMBER

PROVIDE LIQUID BOOT GAS VAPOR BARRIER SYSTEM UNDER SLAB AS MANUFACTURED BY CETCO CONSISTING OF ULTRASHIELD G-1000, 60 DRY MILS LIQUID BOOT AND LIQUID BOOT BASE FABRIC. SYSTEM SHALL INSTALLED BY AUTHORIZED INSTALLER. REFER TO DETAILS FOR ADDITIONAL INFORMATION. REFER TO CONTRACT DOCUMENTS FOR LOCATIONS OF PENETRATIONS THROUGH THE SLAB.

OFFSET VENT ABOVE CEILING AT ROOF AND EXTEND THROUGH ROOF APPROXIMATELY 3' FROM PARAPET WALLS AND TERMINATE 24" ABOVE FINISHED ROOF.

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	04-07-17	RE-BID/ REMOVE BSMT
4	05-05-17	COMMENTS

DRAWING TITLE: VAPOR REMEDIATION UNDERSLAB PLAN

PROJECT #: 14-534
DRAWN BY:
CHECKED BY: FRM

DRAWING NO: FO-500.00

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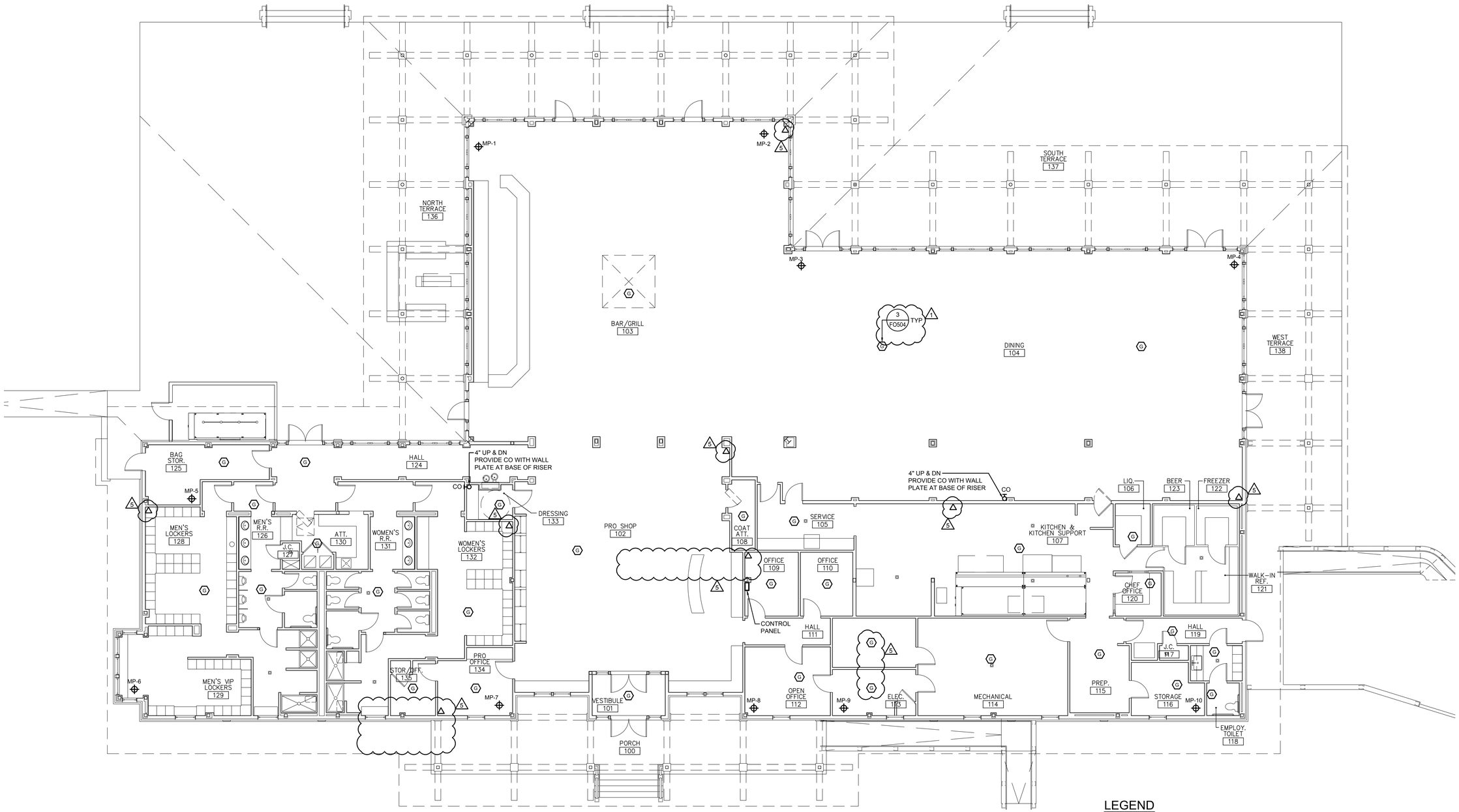

FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

LEGEND

SFV-1	SUCTION FAN VERTICAL 4" RISER AND IDENTIFICATION NUMBER. EXTEND THRU ATTIC TO SUCTION FAN
MP-1	SUB-SLAB MONITORING POINT AND IDENTIFICATION NUMBER
G	GAS SENSOR
	METHANE GAS SENSOR CONTROL PANEL
△	METHANE GAS LIGHT TOWER ALARM - HANG FROM CEILING

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5	06-06-17	DEC COMMENTS

DRAWING TITLE: VAPOR REMEDIATION FLOOR PLAN

PROJECT #: 14-534
DRAWN BY:
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DRAWING NO: FO-501.00

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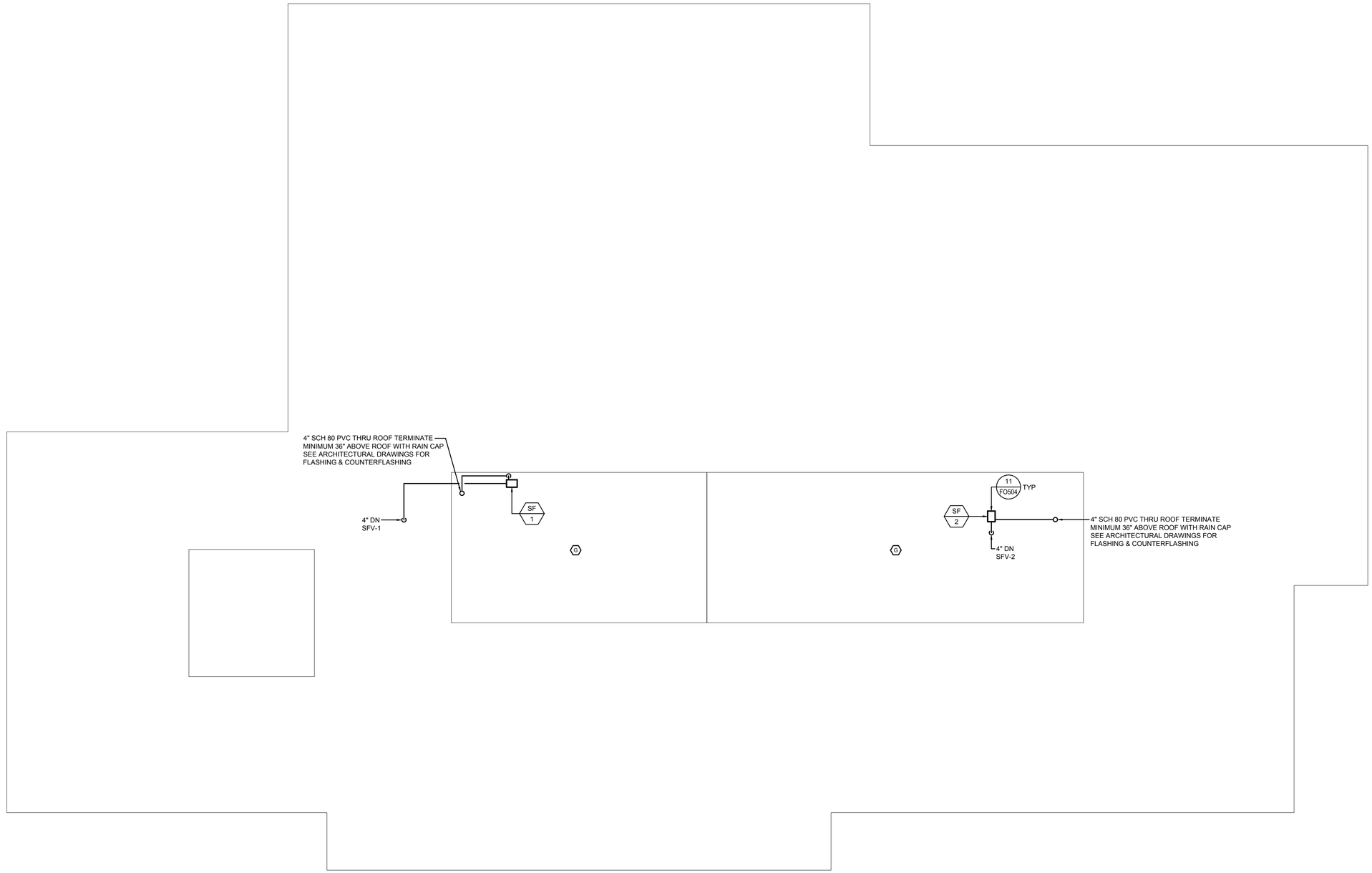

ATTIC/MEZZANINE PLAN

SCALE: 1/8" = 1'-0"

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DRAWING TITLE:
VAPOR REMEDIATION ATTIC & MEZZANINE PLAN

PROJECT #: 14-534
DRAWN BY:
CHECKED BY: FRM

DRAWING NO:
FO-502.00

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VAPOR REMEDIATION GENERAL NOTES

A. SCOPE

1. ALL CONSTRUCTION SHALL COMPLY WITH THE NYSDEC APPROVED POST CONSTRUCTION CUSTODIAL CARE PLAN DATED OCTOBER 2013, PREPARED BY NYC DPR, INCLUDING THE APPROPRIATE HANDLING OF COVER, SOIL, SHAPING LAYER MATERIAL, DEMARCATION LAYER MATERIALS, AND MSW, AND INSPECTION AND CONSTRUCTION CERTIFICATION REQUIREMENTS.
2. THE GAS MITIGATION SYSTEM IS TO BE INSTALLED BY A LICENSED GAS MITIGATION CONTRACTOR IN THE STATE OF NEW YORK. CONTRACTOR TO SUBMIT DESIGN SHOP DRAWINGS FOR REVIEW PRIOR TO CONSTRUCTION.
3. THE REQUIREMENTS ADDRESSED IN THE GAS MITIGATION SYSTEM (GMS) INCLUDE THE FOLLOWING CATEGORIES OF CONTRACTOR ACTIVITY: GENERAL PRACTICES, WORKER HEALTH AND SAFETY, SYSTEMS INSTALLATION, MATERIALS, MONITORS AND LABELING, POST-MITIGATION TESTING, AND CONTRACTS AND DOCUMENTATION.

B. IMPLEMENTATION

1. THE GMS INCLUDES REQUIREMENTS FOR INSTALLATION OF GAS REMEDIATION SYSTEMS AND PROVIDES A BASIS FOR EVALUATING THE QUALITY OF THOSE INSTALLATIONS. IT MAY BE ADOPTED BY STATE REGULATORY AGENCIES FOR STATE OR LOCAL GAS MITIGATION CONTRACTOR LICENSURE PROGRAMS. IT MAY ALSO BE USED AS A REFERENCE DURING INSPECTION OF IN-PROGRESS OR COMPLETED GAS MITIGATION WORK.
2. CONTRACTORS SHALL PERSONALLY CONDUCT FOLLOW-UP INSPECTION OF ANY GAS MITIGATION SYSTEMS INSTALLED BY THEIR FIRM OR BY SUBCONTRACTORS TO INSURE CONFORMANCE WITH THE REQUIREMENTS OF THE GMS. THIS REQUIREMENT SHALL INCLUDE THE POST-MITIGATION TESTING PRESCRIBED IN THIS SPECIFICATION.
3. THOSE PROVISIONS OF THE GMS THAT ARE CONSIDERED TO BE MANDATORY ARE PREFACED BY THE TERM "SHALL." PROVISIONS THAT ARE CONSIDERED GOOD PRACTICE BUT WHICH ARE NOT MANDATORY ARE PREFACED BY THE TEGMS "SHOULD" OR "RECOMMENDED."

C. LIMITATIONS

1. ALTHOUGH THE PROVISIONS OF THE GMS HAVE BEEN CAREFULLY REVIEWED FOR POTENTIAL CONFLICTS WITH OTHER REGULATORY REQUIREMENTS, ADHERENCE TO THE GMS DOES NOT GUARANTEE COMPLIANCE WITH THE APPLICABLE CODES OR REGULATIONS OF ANY OTHER FEDERAL, STATE, OR LOCAL AGENCY HAVING JURISDICTION.
2. WHERE DISCREPANCIES EXIST BETWEEN PROVISIONS OF THE GMS AND LOCAL CODES OR REGULATIONS, LOCAL CODES SHALL TAKE PRECEDENCE. HOWEVER, WHERE COMPLIANCE WITH LOCAL CODES NECESSITATES A DEVIATION FROM THE GMS, EPA RECOMMENDS THAT RPP LISTED MITIGATION SERVICE PROVIDERS (MITIGATION CONTRACTORS) REPORT THE DEVIATION IN WRITING TO THE APPROPRIATE EPA REGIONAL OFFICE AND THE APPROPRIATE STATE REGULATORY OFFICIAL WITHIN 30 DAYS. IT SHOULD BE NOTED THAT EPA IS NOT REQUIRING THE REPORTING THAT IS RECOMMENDED IN THIS PARAGRAPH. STATES WITH GAS MITIGATION CONTRACTOR CERTIFICATION PROGRAMS MAY REQUIRE THAT CONTRACTORS GIVE PRIOR NOTIFICATION OF THEIR INTENT TO DEVIATE FROM THE GMS FOR RESEARCH OR OTHER PURPOSES.
3. THE GMS IS NOT INTENDED TO BE USED AS A DESIGN MANUAL, AND COMPLIANCE WITH ITS PROVISIONS WILL NOT GUARANTEE REDUCTION OF INDOOR GAS CONCENTRATIONS TO ANY SPECIFIC LEVEL.
4. BECAUSE OF THE WIDE VARIATION IN BUILDING DESIGN, SIZE, OPERATION AND USE, THE GMS DOES NOT INCLUDE DETAILED GUIDANCE ON HOW TO SELECT THE MOST APPROPRIATE MITIGATION STRATEGY FOR A GIVEN BUILDING. THAT GUIDANCE IS PROVIDED IN THE DOCUMENTS REFERENCED IN IN THIS SPECIFICATION.
5. CONTRACTORS WHO EXPECT TO DEVIATE FROM PROVEN GAS MITIGATION TECHNOLOGIES AND METHODS FOR PURPOSES OF RESEARCH ON INNOVATIVE MITIGATION TECHNIQUES, SHALL OBTAIN PRIOR APPROVAL FROM STATE REGULATORY OFFICES, DOCUMENT THE NON-STANDARD TECHNIQUES, AND INFORM THE CLIENT OF THE DEVIATION FROM STANDARD PROCEDURES. IN CASES WHERE GAS MITIGATION IS NOT REGULATED BY THE STATE, CONTRACTORS SHALL OBTAIN PRIOR APPROVAL FROM A REGIONAL EPA OFFICE.

D. WORKER HEALTH AND SAFETY

1. CONTRACTORS SHALL COMPLY WITH ALL OSHA, STATE AND LOCAL STANDARDS OR REGULATIONS RELATING TO WORKER SAFETY AND OCCUPATIONAL GAS EXPOSURE. APPLICABLE REFERENCES IN THE CODE OF FEDERAL REGULATIONS AND NIOSH PUBLICATIONS.
2. IN ADDITION TO THE OSHA AND NIOSH STANDARDS, THE FOLLOWING REQUIREMENTS THAT ARE SPECIFICALLY OR UNIQUELY APPLICABLE FOR THE SAFETY AND PROTECTION OF GAS MITIGATION WORKERS SHALL BE MET:
   a. THE CONTRACTOR SHALL ADVISE WORKERS OF THE HAZARDS OF EXPOSURE TO GAS AND THE NEED TO APPLY PROTECTIVE MEASURES WHEN WORKING IN AREAS OF ELEVATED GAS CONCENTRATIONS.
   b. THE CONTRACTOR SHALL HAVE A WORKER PROTECTION PLAN ON FILE THAT IS AVAILABLE TO ALL EMPLOYEES AND IS APPROVED BY ANY STATE OR LOCAL REGULATING AGENCIES THAT REQUIRE SUCH A PLAN. EXCEPTION: A WORKER PROTECTION PLAN IS NOT REQUIRED FOR A CONTRACTOR WHO IS A SOLE PROPRIETOR UNLESS REQUIRED BY STATE OR LOCAL REGULATIONS.
   c. THE CONTRACTOR SHALL ENSURE THAT APPROPRIATE SAFETY EQUIPMENT SUCH AS HARD HATS, FACE SHIELDS, EAR PLUGS, STEEL-TOE BOOTS AND PROTECTIVE GLOVES ARE AVAILABLE ON THE JOB SITE DURING CUTTING, DRILLING, GRINDING, POLISHING, DEMOLISHING OR OTHER ACTIVITY ASSOCIATED WITH GAS MITIGATION PROJECTS.
   d. ALL ELECTRICAL EQUIPMENT USED DURING GAS MITIGATION PROJECTS SHALL BE PROPERLY GROUNDED. CIRCUITS USED AS A POWER SOURCE SHOULD BE PROTECTED BY GROUND-FAULT CIRCUIT INTERRUPTERS (GFCI).
   e. WHEN WORK IS REQUIRED AT ELEVATIONS ABOVE THE GROUND OR FLOOR, THE CONTRACTOR SHALL ENSURE THAT LADDERS OR SCAFFOLDING ARE SAFELY INSTALLED AND OPERATED.
   f. WORK AREAS SHALL BE VENTILATED TO REDUCE WORKER EXPOSURE TO GAS DECAY PRODUCTS, DUST, OR OTHER AIRBORNE POLLUTANTS. IN WORK AREAS WHERE VENTILATION IS IMPRACTICAL OR WHERE VENTILATION CANNOT REDUCE GAS LEVELS TO LESS THAN 0.3 WL (BASED ON A SHORT TERM DIAGNOSTIC TEST, E.G., GRAB SAMPLE), THE CONTRACTOR SHALL ENSURE THAT RESPIRATORY PROTECTION CONFOGMS WITH THE REQUIREMENTS IN THE NIOSH GUIDE TO INDUSTRIAL RESPIRATORY PROTECTION. ((NOTE: IF UNABLE TO MAKE WORKING LEVEL MEASUREMENTS, A GAS LEVEL OF 30 PCI/L SHALL BE USED.)
   g. WHERE COMBUSTIBLE MATERIALS EXIST IN THE SPECIFIC AREA OF THE BUILDING WHERE GAS MITIGATION WORK IS TO BE CONDUCTED AND THE CONTRACTOR IS CREATING ANY TEMPERATURES HIGH ENOUGH TO INDUCE A FLAME, THE CONTRACTOR SHALL ENSURE THAT FIRE EXTINGUISHERS SUITABLE FOR TYPE A, B, AND C FIRES ARE AVAILABLE IN THE IMMEDIATE WORK AREA.
   h. PENDING DEVELOPMENT OF AN APPROVED PERSONAL GAS EXPOSURE DEVICE AND A PROTOCOL FOR ITS USE, CONTRACTORS SHALL RECORD EMPLOYEE EXPOSURE TO GAS AT EACH WORK SITE, BASED ON:
      1) THE HIGHEST PRE-MITIGATION INDOOR GAS OR WORKING LEVEL MEASUREMENT AVAILABLE, AND
      2) THE TIME EMPLOYEES ARE EXPOSED (WITHOUT RESPIRATOR PROTECTION) AT THAT LEVEL

      (NOTE: THIS APPROACH IS NOT INTENDED TO PRECLUDE THE ALTERNATIVE USE OF ON-SITE GAS OR GAS DECAY PRODUCT MEASUREMENTS TO DETERMINE EXACT EXPOSURE.) CONSISTENT WITH OSHA PERMISSIBLE EXPOSURE LIMITS, CONTRACTORS SHALL ENSURE THAT EMPLOYEES ARE EXPOSED TO NO MORE THAN 4 WORKING LEVEL MONTHS (WLM) OVER A 12 MONTH PERIOD. (AN EQUILIBRIUM RATIO OF 50 PERCENT SHALL BE USED TO CONVERT GAS EXPOSURE TO WLM.)
   i. WHEN MITIGATION WORK REQUIRES THE USE OF SEALANTS, ADHESIVES, PAINTS, OR OTHER SUBSTANCES THAT MAY BE HAZARDOUS TO HEALTH, CONTRACTORS SHALL PROVIDE EMPLOYEES WITH THE APPLICABLE MATERIAL SAFETY DATA SHEETS (MSDS) AND EXPLAIN THE REQUIRED SAFETY PROCEDURES.

E. SYSTEMS REQUIREMENT

1. ALL GAS MITIGATION SYSTEMS SHALL BE INSTALLED AS PERMANENT, INTEGRAL ADDITIONS TO THE BUILDING, EXCEPT WHERE A TEMPORARY SYSTEM HAS BEEN INSTALLED.
2. ALL GAS MITIGATION SYSTEMS SHALL BE INSTALLED TO AVOID THE CREATION OF OTHER HEALTH, SAFETY, OR ENVIRONMENTAL HAZARDS TO BUILDING OCCUPANTS, SUCH AS BACKDRAFTING OF NATURAL DRAFT COMBUSTION APPLIANCES.
3. ALL GAS MITIGATION SYSTEMS SHALL MAXIMIZE GAS REDUCTION AND IN CONSIDERATION OF THE NEED TO MINIMIZE EXCESS ENERGY USAGE, TO AVOID COMPROMISING MOISTURE AND TEMPERATURE CONTROLS AND OTHER COMFORT FEATURES, AND TO MINIMIZE NOISE.
4. ALL GAS MITIGATION SYSTEMS AND THEIR COMPONENTS SHALL COMPLY WITH THE LAWS, ORDINANCES, CODES, AND REGULATIONS OF RELEVANT JURISDICTIONAL AUTHORITIES, INCLUDING APPLICABLE MECHANICAL, ELECTRICAL, BUILDING, PLUMBING, ENERGY, AND FIRE PREVENTION CODES.

F. SYSTEMS INSTALLATION

1. GENERAL REQUIREMENTS
   a. ALL COMPONENTS OF GAS MITIGATION SYSTEMS INSTALLED IN COMPLIANCE WITH PROVISIONS OF THE GMS SHALL ALSO BE IN COMPLIANCE WITH THE APPLICABLE MECHANICAL, ELECTRICAL, BUILDING, PLUMBING, ENERGY AND FIRE PREVENTION CODES, STANDARDS, AND REGULATIONS OF THE LOCAL JURISDICTION.
   b. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED LICENSES AND PERMITS, AND DISPLAY THEM IN THE WORK AREAS AS REQUIRED BY LOCAL ORDINANCES.
   c. WHERE PORTIONS OF STRUCTURAL FRAMING MATERIAL MUST BE REMOVED TO ACCOMMODATE GAS VENT PIPES, MATERIAL REMOVED SHALL BE NO GREATER THAN THAT PERMITTED FOR PLUMBING INSTALLATIONS BY APPLICABLE BUILDING OR PLUMBING CODES.
   d. WHERE INSTALLATION OF A GAS MITIGATION SYSTEM REQUIRES PIPES OR DUCTS TO PENETRATE A FIREWALL OR OTHER FIRE RESISTANCE RATED WALL OR FLOOR, PENETRATIONS SHALL BE PROTECTED IN ACCORDANCE WITH APPLICABLE BUILDING, MECHANICAL, FIRE, AND ELECTRICAL CODES.
2. GAS VENT PIPE INSTALLATION REQUIREMENTS
   a. ALL JOINTS AND CONNECTIONS IN GAS MITIGATION SYSTEMS USING PLASTIC VENT PIPES SHALL BE PERMANENTLY SEALED WITH ADHESIVES AS SPECIFIED BY THE MANUFACTURER OF THE PIPE MATERIAL USED. JOINTS OR CONNECTIONS IN OTHER VENT PIPE MATERIALS SHALL BE MADE AIR TIGHT.
   b. ATTIC AND EXTERNAL PIPING RUNS IN AREAS SUBJECT TO SUBFREEZING CONDITIONS SHOULD BE PROTECTED TO AVOID THE RISK OF VENT PIPE FREEZE-UP.
   c. GAS VENT PIPES SHALL BE FASTENED TO THE STRUCTURE OF THE BUILDING WITH HANGERS, STRAPPING, OR OTHER SUPPORTS THAT WILL ADEQUATELY SECURE THE VENT MATERIAL. EXISTING PLUMBING PIPES, DUCTS, OR MECHANICAL EQUIPMENT SHALL NOT BE USED TO SUPPORT OR SECURE A GAS VENT PIPE.
   d. SUPPORTS FOR GAS VENT PIPES SHALL BE INSTALLED AT LEAST EVERY 6 FEET ON HORIZONTAL RUNS. VERTICAL RUNS SHALL BE SECURED EITHER ABOVE OR BELOW THE POINTS OF PENETRATION THRU FLOORS, CEILINGS, AND ROOFS, OR AT LEAST EVERY 8 FEET ON RUNS THAT DO NOT PENETRATE FLOORS, CEILINGS, OR ROOFS.
   e. TO PREVENT BLOCKAGE OF AIR FLOW INTO THE BOTTOM OF GAS VENT PIPES, THESE PIPES SHALL BE SUPPORTED OR SECURED IN A PERMANENT MANNER THAT PREVENTS THEIR DOWNWARD MOVEMENT TO THE BOTTOM OF SUCTION PITS OR SUMP PITS, OR INTO THE SOIL BENEATH AN AGGREGATE LAYER UNDER A SLAB.
   f. GAS VENT PIPES SHALL BE INSTALLED IN A CONFIGURATION THAT ENSURES THAT ANY RAIN WATER OR CONDENSATION WITHIN THE PIPES DRAINS DOWNWARD INTO THE GROUND BENEATH THE SLAB OR SOIL-GAS RETARDER MEMBRANE.
   g. GAS VENT PIPES SHALL NOT BLOCK ACCESS TO ANY AREAS REQUIRING MAINTENANCE OR INSPECTION. GAS VENTS SHALL NOT BE INSTALLED IN FRONT OF OR INTERFERE WITH ANY LIGHT, OPENING, DOOR, WINDOW OR EQUIPMENT ACCESS AREA REQUIRED BY CODE. IF GAS VENT PIPES ARE INSTALLED IN SUMP PITS, THE SYSTEM SHALL BE DESIGNED WITH REMOVABLE OR FLEXIBLE COUPLINGS TO FACILITATE REMOVAL OF THE SUMP PIT COVER FOR SUMP PUMP MAINTENANCE.
3. GAS VENT FAN INSTALLATION REQUIREMENTS
   a. VENT FANS USED IN GAS MITIGATION SYSTEMS SHALL BE SEALED TO REDUCE THE POTENTIAL FOR LEAKAGE OF SOIL GAS FROM THE FAN HOUSING.
   b. GAS VENT FANS SHALL BE SIZED TO PROVIDE THE PRESSURE DIFFERENCE AND AIR FLOW CHARACTERISTICS NECESSARY TO ACHIEVE THE GAS REDUCTION GOALS ESTABLISHED FOR THE SPECIFIC MITIGATION PROJECT
   c. GAS VENT FANS USED IN ACTIVE SOIL DEPRESSURIZATION OR BLOCK WALL DEPRESSURIZATION SYSTEMS SHALL NOT BE INSTALLED BELOW GROUND NOR IN THE CONDITIONED (HEATED/COOLED) SPACE OF A BUILDING, NOR IN ANY BASEMENT, CRAWLSPACE, OR OTHER INTERIOR LOCATION DIRECTLY BENEATH THE CONDITIONED SPACES OF A BUILDING. ACCEPTABLE LOCATIONS FOR GAS VENT FANS INCLUDE ATTICS NOT SUITABLE FOR OCCUPANCY (INCLUDING ATTICS OVER OCCUPIED) OR ON THE EXTERIOR OF THE BUILDING.
   d. GAS VENT FANS SHALL BE INSTALLED IN A CONFIGURATION THAT AVOIDS CONDENSATION BUILDUP IN THE FAN HOUSING. WHENEVER POSSIBLE, FANS SHOULD BE INSTALLED IN VERTICAL RUNS OF THE VENT PIPE.
   e. GAS VENT FANS MOUNTED ON THE EXTERIOR OF BUILDINGS SHALL BE RATED FOR OUTDOOR USE OR INSTALLED IN A WATER TIGHT PROTECTIVE HOUSING.
   f. GAS VENT FANS SHALL BE MOUNTED AND SECURED IN A MANNER THAT MINIMIZES TRANSFER OF VIBRATION TO THE STRUCTURAL FRAMING OF THE BUILDING.
   g. TO FACILITATE MAINTENANCE AND FUTURE REPLACEMENT, GAS VENT FANS SHALL BE INSTALLED IN THE VENT PIPE USING REMOVABLE COUPLINGS OR FLEXIBLE CONNECTIONS THAT CAN BE TIGHTLY SECURED TO BOTH THE FAN AND THE VENT PIPE.
5. SEALING REQUIREMENTS
   a. SUMP PITS THAT PERMIT ENTRY OF SOIL-GAS OR THAT WOULD ALLOW CONDITIONED AIR TO BE DRAWN INTO A SUB-SLAB DEPRESSURIZATION SYSTEM SHALL BE COVERED AND SEALED. THE COVERS ON SUMPS THAT PREVIOUSLY PROVIDED PROTECTION OR RELIEF FROM SURFACE WATER COLLECTION SHALL BE FITTED WITH A WATER OR MECHANICALLY TRAPPED DRAIN. WATER TRAPS SHOULD BE FITTED WITH AN AUTOMATIC SUPPLY OF PRIMING WATER.
   b. OPENINGS AROUND GAS VENT PIPE PENETRATIONS OF THE SLAB, THE FOUNDATION WALLS, OR THE CRAWLSPACE SOIL-GAS RETARDER MEMBRANE SHALL BE CLEANED, PREPARED, AND SEALED IN A PERMANENT, AIR-TIGHT MANNER USING COMPATIBLE CAULKS OR OTHER SEALANT MATERIALS. OPENINGS AROUND OTHER UTILITY PENETRATIONS OF THE SLAB, WALLS, OR SOIL-GAS RETARDER SHALL ALSO BE SEALED.
   c. OPENINGS, PERIMETER CHANNEL DRAINS, OR CRACKS THAT EXIST WHERE THE SLAB MEETS THE FOUNDATION WALL (FLOOR-WALL JOINT), SHALL BE SEALED WITH URETHANE CAULK OR EQUIVALENT MATERIAL. WHEN THE OPENING OR CHANNEL IS GREATER THAN 1/2 INCH IN WIDTH, A FOAM BACKER ROD OR OTHER COMPARABLE FILLER MATERIAL SHALL BE INSERTED IN THE CHANNEL BEFORE APPLICATION OF THE SEALANT. THIS SEALING TECHNIQUE SHALL BE DONE IN A MANNER THAT RETAINS THE CHANNEL FEATURE AS A WATER CONTROL SYSTEM. OTHER OPENINGS OR CRACKS IN SLABS OR AT EXPANSION OR CONTROL JOINTS SHOULD ALSO BE SEALED. OPENINGS OR CRACKS THAT ARE DETERMINED TO BE INACCESSIBLE OR BEYOND THE ABILITY OF THE CONTRACTOR TO SEAL SHALL BE DISCLOSED TO THE CLIENT AND INCLUDED IN THE DOCUMENTATION.
   d. WHEN INSTALLING BASEBOARD-TYPE SUCTION SYSTEMS, ALL SEAMS AND JOINTS IN THE BASEBOARD MATERIAL SHALL BE JOINED AND SEALED USING MATERIALS RECOMMENDED BY THE MANUFACTURER OF THE BASEBOARD SYSTEM. BASEBOARDS SHALL BE SECURED TO WALLS AND FLOORS WITH ADHESIVES DESIGNED AND RECOMMENDED FOR SUCH INSTALLATIONS. IF A BASEBOARD SYSTEM IS INSTALLED ON A BLOCK WALL FOUNDATION, THE TOPS OF THE BLOCKWALL SHALL BE CLOSED AND SEALED.

G. ELECTRICAL REQUIREMENTS

1. WIRING FOR ALL ACTIVE GAS MITIGATION SYSTEMS SHALL CONFORM TO PROVISIONS OF THE NATIONAL ELECTRIC CODE AND ANY ADDITIONAL LOCAL REGULATIONS.
2. WIRING MAY NOT BE LOCATED IN OR CHASED THRU THE MITIGATION INSTALLATION DUCTING OR ANY OTHER HEATING OR COOLING DUCTWORK.
3. GAS MITIGATION FANS INSTALLED ON THE EXTERIOR OF BUILDINGS SHALL BE HARD-WIRED INTO AN ELECTRICAL CIRCUIT. PLUGGED FANS SHALL NOT BE USED OUTDOORS.
4. IF THE RATED ELECTRICITY REQUIREMENTS OF A GAS MITIGATION SYSTEM FAN EXCEEDS 50 PERCENT OF THE CIRCUIT CAPACITY INTO WHICH IT WILL BE CONNECTED, OR IF THE TOTAL CONNECTED LOAD ON THE CIRCUIT (INCLUDING THE GAS VENT FAN) EXCEEDS 80 PERCENT OF THE CIRCUIT'S RATED CAPACITY, A SEPARATE, DEDICATED CIRCUIT SHALL BE INSTALLED TO POWER THE FAN.
5. AN ELECTRICAL DISCONNECT SWITCH OR CIRCUIT BREAKER SHALL BE INSTALLED IN GAS MITIGATION SYSTEM FAN CIRCUITS TO PERMIT DEACTIVATION OF THE FAN FOR MAINTENANCE OR REPAIR BY THE BUILDING OWNER OR SERVICING CONTRACTOR (DISCONNECT SWITCHES ARE NOT REQUIRED WITH PLUGGED FANS).

H. MATERIALS

1. ALL MITIGATION SYSTEM ELECTRICAL COMPONENTS SHALL BE U.L. LISTED OR OF EQUIVALENT SPECIFICATIONS.
2. AS A MINIMUM, ALL PLASTIC VENT PIPES IN MITIGATION SYSTEMS SHALL BE MADE OF SCHEDULE 80 PVC OR EQUIVALENT PIPING MATERIAL.
3. VENT PIPE FITTINGS IN A MITIGATION SYSTEM SHALL BE OF THE SAME MATERIAL AS THE VENT PIPES.
4. CLEANING SOLVENTS AND ADHESIVES USED TO JOIN PLASTIC PIPES AND FITTINGS SHALL BE AS RECOMMENDED BY MANUFACTURERS FOR USE WITH THE TYPE OF PIPE MATERIAL USED IN THE MITIGATION SYSTEM.
5. WHEN SEALING CRACKS IN SLABS AND OTHER SMALL OPENINGS AROUND PENETRATIONS OF THE SLAB AND FOUNDATION WALLS, CAULKS AND SEALANTS DESIGNED FOR SUCH APPLICATION SHALL BE USED. URETHANE SEALANTS ARE RECOMMENDED BECAUSE OF THEIR DURABILITY.
6. WHEN SEALING HOLES FOR PLUMBING ROUGH-IN OR OTHER LARGE OPENINGS IN SLABS AND FOUNDATION WALLS THAT ARE BELOW THE GROUND SURFACE, NON-SHRINK MORTAR, GROUTS, EXPANDING FOAM, OR SIMILAR MATERIALS DESIGNED FOR SUCH APPLICATION SHALL BE USED.

I. MONITORS AND LABELING

1. ALL ACTIVE SOIL DEPRESSURIZATION AND BLOCK WALL DEPRESSURIZATION GAS MITIGATION SYSTEMS SHALL INCLUDE A MECHANISM TO MONITOR SYSTEM PERFORMANCE AND WARN OF SYSTEM FAILURE. THE MECHANISM SHALL BE SIMPLE TO READ OR INTERPRET AND BE LOCATED WHERE IT IS EASILY SEEN OR HEARD BY BUILDING OCCUPANTS AND PROTECTED FROM DAMAGE OR DESTRUCTION.
2. ELECTRICAL GAS MITIGATION SYSTEM MONITORS (WHETHER VISUAL OR AUDIBLE) SHALL BE INSTALLED ON NON-SWITCHED CIRCUITS AND BE DESIGNED TO RESET AUTOMATICALLY WHEN POWER IS RESTORED AFTER SERVICE OR POWER SUPPLY FAILURE. BATTERY OPERATED MONITORING DEVICES SHALL NOT BE USED UNLESS THEY ARE EQUIPPED WITH A LOW POWER WARNING FEATURE.
3. MECHANICAL GAS MITIGATION SYSTEM MONITORS, SUCH AS MANOMETER TYPE PRESSURE GAUGES, SHALL BE CLEARLY MARKED TO INDICATE THE RANGE OR ZONE OF PRESSURE READINGS THAT EXISTED WHEN THE SYSTEM WAS INITIALLY ACTIVATED.
4. A SYSTEM DESCRIPTION LABEL SHALL BE PLACED ON THE MITIGATION SYSTEM, THE ELECTRIC SERVICE ENTRANCE PANEL, OR OTHER PROMINENT LOCATION. THIS LABEL SHALL BE LEGIBLE FROM A DISTANCE OF AT LEAST THREE FEET AND INCLUDE THE FOLLOWING INFORMATION: "GAS REDUCTION SYSTEM," THE INSTALLER'S NAME, PHONE NUMBER, AND RCP IDENTIFICATION NUMBER, THE DATE OF INSTALLATION, AND AN ADVISORY THAT THE BUILDING SHOULD BE TESTED FOR GAS AT LEAST EVERY TWO YEARS OR AS REQUIRED OR RECOMMENDED BY STATE OR LOCAL AGENCIES. IN ADDITION, ALL EXPOSED AND VISIBLE INTERIOR GAS MITIGATION SYSTEM VENT PIPE SECTIONS SHALL BE IDENTIFIED WITH AT LEAST ONE LABEL ON EACH FLOOR LEVEL. THE LABEL SHALL READ, "GAS REDUCTION SYSTEM."
5. THE CIRCUIT BREAKERS CONTROLLING THE CIRCUITS ON WHICH THE GAS VENT FAN AND SYSTEM FAILURE WARNING DEVICES OPERATE SHALL BE LABELED "GAS SYSTEM."

J. POST-MITIGATION TESTING

1. AFTER INSTALLATION OF AN ACTIVE GAS CONTROL SYSTEM (E.G., SSD), THE CONTRACTOR SHALL RE-EXAMINE AND VERIFY THE INTEGRITY OF THE FAN MOUNTING SEALS AND ALL JOINTS IN THE INTERIOR VENT PIPING.
2. AFTER INSTALLATION OF ANY ACTIVE GAS MITIGATION SYSTEM, THE CONTRACTOR SHALL PERFORM TESTS. SEE SPECIFICATION SECTION 072727 'SUBSLAB DEPRESSURIZATION SYSTEM' FOR ADDITIONAL INFORMATION.
3. IMMEDIATELY AFTER INSTALLATION AND ACTIVATION OF ANY ACTIVE (FAN-POWERED) SUB-SLAB DEPRESSURIZATION OR BLOCK WALL DEPRESSURIZATION SYSTEM IN BUILDINGS CONTAINING NATURAL DRAFT COMBUSTION APPLIANCES, THE BUILDING SHALL BE TESTED FOR BACKDRAFTING OF THOSE APPLIANCES. ANY BACKDRAFTING CONDITION THAT RESULTS FROM INSTALLATION OF THE GAS MITIGATION SYSTEM SHALL BE CORRECTED BEFORE THE SYSTEM IS PLACED IN OPERATION.
4. UPON COMPLETION OF GAS MITIGATION WORK, A TEST OF MITIGATION SYSTEM EFFECTIVENESS SHALL BE CONDUCTED. SEE SPECIFICATION SECTION 072726 'GAS VAPOR BARRIER (FLUID APPLIED) FOR ADDITIONAL INFORMATION.
5. TO ENSURE CONTINUED EFFECTIVENESS OF THE GAS MITIGATION SYSTEM(S) INSTALLED, THE CONTRACTOR SHALL ADVISE THE CLIENT TO RETEST THE BUILDING AT LEAST EVERY TWO YEARS OR AS REQUIRED OR RECOMMENDED BY STATE OR LOCAL AUTHORITY. RETESTING IS ALSO RECOMMENDED IF THE BUILDING UNDERGOES SIGNIFICANT ALTERATION.

K. CONTRACTS AND DOCUMENTATION

1. EPA RECOMMENDS THAT CONTRACTORS PROVIDE THE FOLLOWING WRITTEN INFORMATION TO CLIENTS PRIOR TO INITIATION OF WORK:
   a. THE CONTRACTOR'S EPA RPP MITIGATION SERVICE PROVIDER IDENTIFICATION NUMBER.
   b. A STATEMENT THAT DESCRIBES THE PLANNED SCOPE OF THE WORK AND THAT INCLUDES AN ESTIMATE OF THE TIME NEEDED TO COMPLETE THE WORK.
   c. A STATEMENT DESCRIBING ANY KNOWN HAZARDS ASSOCIATED WITH CHEMICALS USED IN OR AS PART OF THE INSTALLATION.
   d. A STATEMENT INDICATING COMPLIANCE WITH AND IMPLEMENTATION OF ALL EPA STANDARDS AND THOSE OF OTHER AGENCIES HAVING JURISDICTION (E.G., CODE REQUIREMENTS).
   e. A STATEMENT DESCRIBING ANY SYSTEM MAINTENANCE THAT THE BUILDING OWNER WOULD BE REQUIRED TO PERFORM.
   f. AN ESTIMATE OF THE INSTALLATION COST AND ANNUAL OPERATING COSTS OF THE SYSTEM.
   g. THE CONDITIONS OF ANY WARRANTY OR GUARANTEE.
2. EPA RECOMMENDS THAT RPP LISTED MITIGATION CONTRACTORS KEEP RECORDS OF ALL GAS MITIGATION WORK PERFORMED AND MAINTAIN THOSE RECORDS FOR 3 YEARS OR FOR THE PERIOD OF ANY WARRANTY OR GUARANTEE, WHICHEVER IS LONGER. THESE RECORDS SHOULD INCLUDE:
3. THE BUILDING INVESTIGATION SUMMARY AND FLOOR PLAN SKETCH.
4. PRE- AND POST-MITIGATION GAS TEST DATA.
5. PRE- AND POST-MITIGATION DIAGNOSTIC TEST DATA.
6. COPIES OF CONTRACTS AND WARRANTIES.
7. A NARRATIVE OR PICTORIAL DESCRIPTION OF MITIGATION SYSTEM(S) INSTALLED.
8. APPENDIX A CONTAINS A SUGGESTED STANDARD FORMAT FOR COMPILING MITIGATION PROJECT RECORDS.
9. OTHER RECORDS OR BOOKKEEPING REQUIRED BY LOCAL, STATE, OR FEDERAL STATUTES AND REGULATIONS SHALL BE MAINTAINED FOR THE PERIOD(S) PRESCRIBED BY THOSE REQUIREMENTS.
10. EPA RECOMMENDS THAT HEALTH AND SAFETY RECORDS, INCLUDING WORKER GAS EXPOSURE LOGS, BE MAINTAINED FOR A MINIMUM OF 20 YEARS.
11. UPON COMPLETION OF THE MITIGATION PROJECT, CONTRACTORS SHALL PROVIDE CLIENTS WITH AN INFORMATION PACKAGE THAT INCLUDES:
12. ANY BUILDING PERMITS REQUIRED BY LOCAL CODES.
13. COPIES OF THE BUILDING INVESTIGATION SUMMARY AND FLOOR PLAN SKETCH.
14. PRE-AND POST-MITIGATION GAS TEST DATA.
15. COPIES OF CONTRACTS AND WARRANTIES.
16. A DESCRIPTION OF THE MITIGATION SYSTEM INSTALLED AND ITS BASIC OPERATING PRINCIPLES.
17. A DESCRIPTION OF ANY DEVIATIONS FROM THE GMS OR STATE REQUIREMENTS.
18. A DESCRIPTION OF THE PROPER OPERATING PROCEDURES OF ANY MECHANICAL OR ELECTRICAL SYSTEMS INSTALLED, INCLUDING MANUFACTURER'S OPERATION AND MAINTENANCE INSTRUCTIONS AND WARRANTIES.
19. A LIST OF APPROPRIATE ACTIONS FOR CLIENTS TO TAKE IF THE SYSTEM FAILURE WARNING DEVICE INDICATES SYSTEM DEGRADATION OR FAILURE.
20. THE NAME, TELEPHONE NUMBER, AND EPA RPP MITIGATION SERVICE PROVIDER IDENTIFICATION NUMBER OF THE CONTRACTOR, AND THE PHONE NUMBER OF THE STATE GAS OFFICE.

THE ACCEPTANCE TESTING SHALL BE AS FOLLOWS:

1. THE EXPLOSIVE GAS MONITORING SYSTEM CONTRACTOR SHALL COMPLETE ACCEPTANCE TESTING TO DEMONSTRATE THAT THE ENTIRE SYSTEMS FUNCTIONS AS DESIGNED. TESTING SHALL INCLUDE:
   A. TESTING EACH FUNCTION OF THE INTEGRATED CONTROLS AT THE CONTROLLER.
   B. CONFIRMATION OF THE CALIBRATIONS OF ALL SENSORS.
   C. TESTING OF ALL COMMUNICATIONS BETWEEN SENSORS AND CONTROLLERS AND BETWEEN THE CONTROLLER AND ALARMS AND AUTO DIALER.
   D. TESTING OF ALL ALARM FUNCTIONS OF ALL SENSORS (ABILITY TO DETECT EXPLOSIVE GAS CONCENTRATIONS) AND OTHER TROUBLE ALARM/DIAGNOSTIC CONDITIONS.
   E. THE CONTRACTOR SHALL CORRECT ALL DEFICIENCIES AND REPEAT THE TESTING FOR ANY ITEMS THAT FAIL INITIAL TESTING. OWNER SHALL NOT ACCEPT THE SYSTEM UNTIL ALL COMPONENTS AND THE ENTIRE COORDINATED SYSTEM HAVE BEEN DEMONSTRATED TO BE OPERATING AS DESIGNED.

FAN SCHEDULE

SF X

PLAN NO	MANUFACTURER MODEL	LOCATION	AREA SERVED	FAN TYPE	FAN PERFORMANCE			ELECTRICAL DATA				dBA	WEIGHT LBS	REMARKS
					CFM	TOTAL SP	FAN RPM	HP/ WATTS	RPM	VOLTS/Ø	DRIVE			
SF-1	FAN AM CAV-100	MEZZ	AS SHOWN	CENT	175	2.38	3450	1/2	3450	115/1	DIRECT	65	48	SEE NOTES
SF-2	FAN AM CAV-100	MEZZ	AS SHOWN	CENT	130	1.40	3450	1/2	3450	115/1	DIRECT	55	45	SEE NOTES

NOTES:
1. PROVIDE ELECTRICAL DISCONNECT, VIBRATION ISOLATION WITH MOUNTING BRACKETS.
2. PROVIDE CONTROLS FROM ATC CONTRACTOR.

FOR CONSTRUCTION

NEW YORK ALTERATION WARNING

IT IS A VIOLATION OF NEW YORK PROFESSIONAL ENGINEER & LAND SURVEY LAWS SECTION 7209.2 FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM IN AN

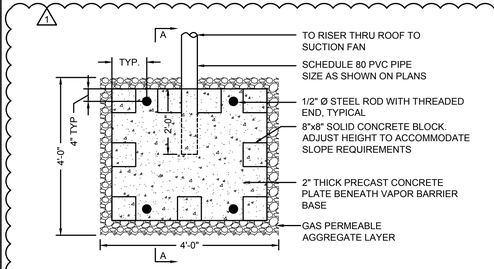

PLAN VIEW - TYPICAL SUB-SLAB DEPRESSURIZATION PIT — 1A
NOT TO SCALE

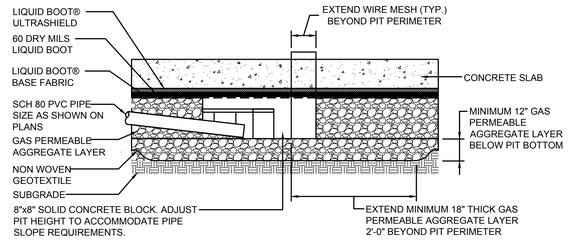

TYPICAL SUB-SLAB DEPRESSURIZATION PIT - SECTION A-A — 1B
NOT TO SCALE

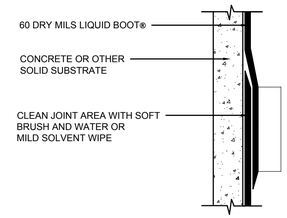

GAS VAPOR BARRIER MEMBRANE LAP JOINTS ON SOLID SUBSTRATE — 2A
NOT TO SCALE

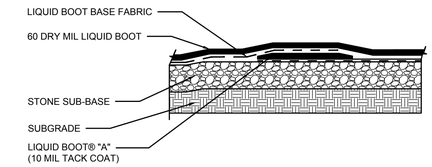

GAS VAPOR BARRIER MEMBRANE LAP JOINTS ON SOLID SUBSTRATE — 2B
NOT TO SCALE

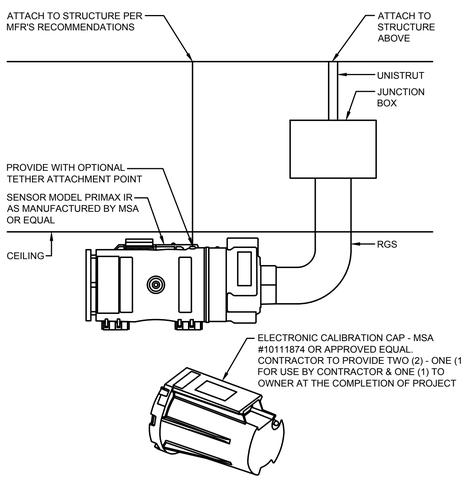

GAS SENSOR DETAIL — 3
NOT TO SCALE

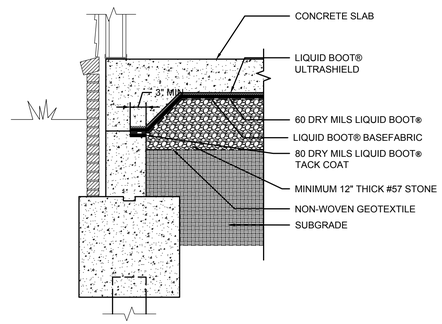

GAS VAPOR BARRIER AT EXTERIOR WALL DETAIL — 4
NOT TO SCALE

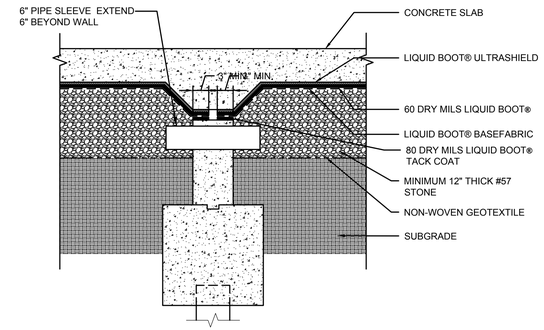

GAS VAPOR BARRIER AT INTERIOR WALL DETAIL — 5
NOT TO SCALE

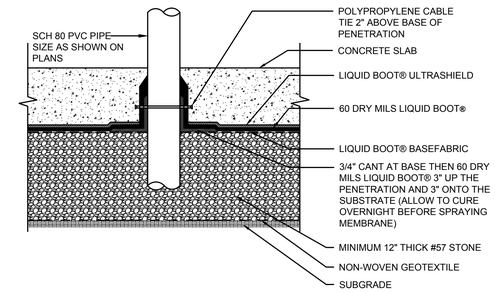

TYPICAL GAS VAPOR BARRIER PENETRATION DETAIL WITHOUT SLEEVE — 6
NOT TO SCALE

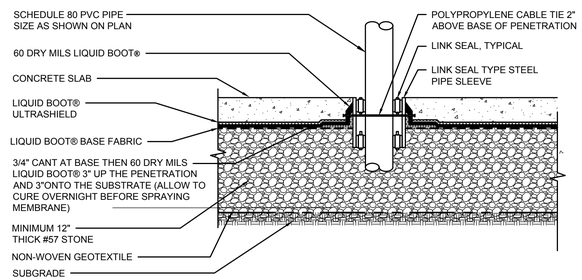

TYPICAL GAS VAPOR BARRIER PENETRATION DETAIL — 7
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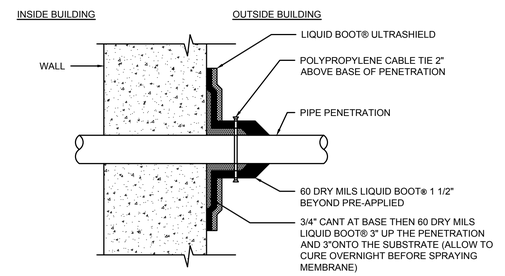

TYPICAL GAS VAPOR BARRIER PENETRATION THRU WALL BELOW GRADE DETAIL WITHOUT SLEEVE — 8A
NOT TO SCALE

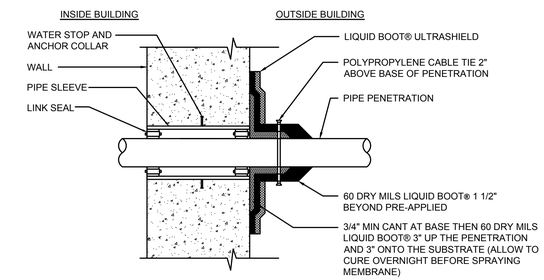

TYPICAL GAS VAPOR BARRIER PENETRATION THRU WALL BELOW GRADE DETAIL WITH SLEEVE — 8B
NOT TO SCALE

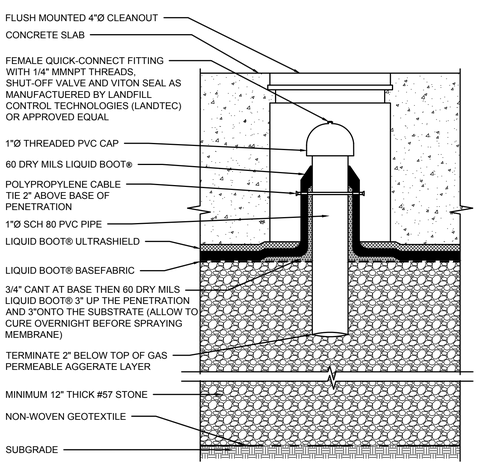

SUB-SLAB MONITORING POINT DETAIL — 9
NOT TO SCALE

NOTES:
1. CONTRACTOR TO SUPPLY SHOP DRAWINGS OF PROPOSED CONSTRUCTION DETAILS FOR APPROVAL. ALL PENETRATIONS SHALL BE CLEANED PER SPECIFICATIONS BEFORE LIQUID BOOT IS APPLIED.
2. CONTRACTOR SHALL SUBMIT TO SCALE SKETCHES SHOWING PROPOSED PIPE JOINT LOCATIONS. ENGINEERS APPROVAL OF PIPE JOINT LOCATIONS SHALL BE REQUIRED PRIOR TO CONSTRUCTION.
3. FURNISH ESCUTCHEONS AS SPECIFIED.

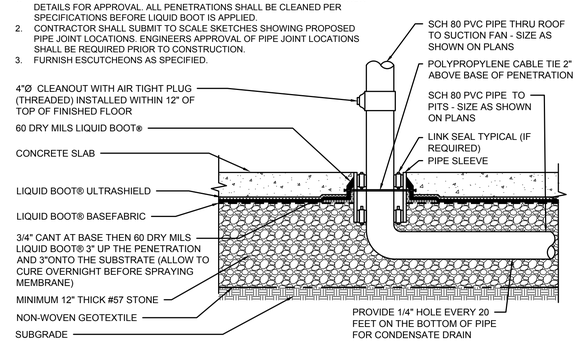

TYPICAL SSDS RISER DETAIL AT FLOOR SLAB — 10
NOT TO SCALE

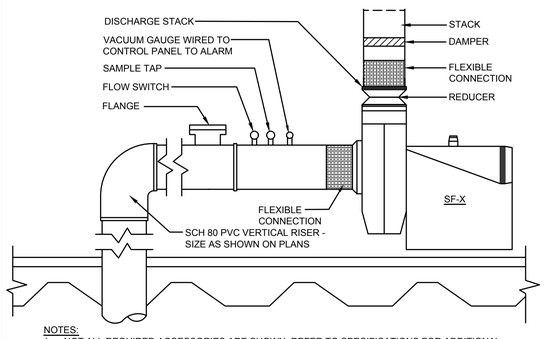

NOTES:
1. NOT ALL REQUIRED ACCESSORIES ARE SHOWN. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. ELECTRICAL WIRING & EQUIPMENT NOT SHOW. REFER TO ELECTRICAL DWGS AND SPECIFICATIONS FOR REQUIREMENTS.
3. PIPE AND EQUIPMENT ARRANGEMENT SHOW FOR SCHEMATIC PURPOSES ONLY. SUBMIT TO SCALE DRAWINGS SHOWING PROPOSED ARRANGEMENT. CONTRACTOR IS REQUIRED TO OBTAIN ENGINEER REVIEW OF ARRANGEMENT.
4. THE SUCTION FAN EXHAUST MUST BE A MINIMUM OF 10 FEET FROM ANY BUILDING INTAKE OR OPERABLE WINDOW.

SUCTION FAN DETAIL — 11
NOT TO SCALE

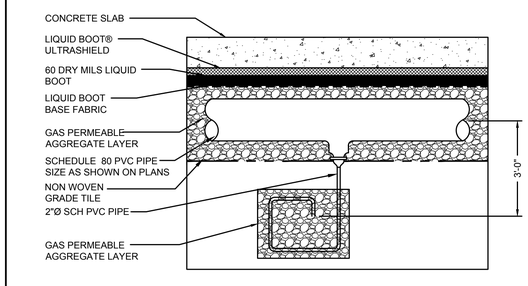

TYPICAL LOW POINT CONDENSATE DRAIN DETAIL — 12
NOT TO SCALE

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LANDSCAPE ARCHITECTS
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10 East 40th Street New York, NY 10016
Tel: 212 683 5631 Fax: 212 481 3768
E-mail: NY@harthowerton.com

TRUMP
THE TRUMP ORGANIZATION

TRUMP GOLF LINKS FERRY POINT PARK
500 Hutchinson River Parkway
Bronx, New York 10465

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SCALE:
NOTE: IF THIS DRAWING IS NOT 24"X36", IT HAS BEEN REVISED FROM ITS ORIGINAL SIZE. SCALE IS NO LONGER APPLICABLE.

DATE	ISSUE
04-16-15	100% DD
06-02-15	30% CD
07-01-15	70% CD
07-27-15	90% CD
09-15-17	FOR CONSTRUCTION

REVISIONS

NO	DATE	ISSUE
	02-17-17	REMOVE BSMT
	03-30-17	DEC REVIEW
3	04-07-17	RE-BID/ REMOVE BSMT
4	05-05-17	COMMENTS

DRAWING TITLE: VAPOR REMEDIATION DETAILS

PROJECT #: 14-534
DRAWN BY:
CHECKED BY: FRM
DRAWING NO: FO-504.00

O:\9K\9600\9834 - Ferry Point Clubhouse\CADD\DWG\9834.001 - FO-503.dwg

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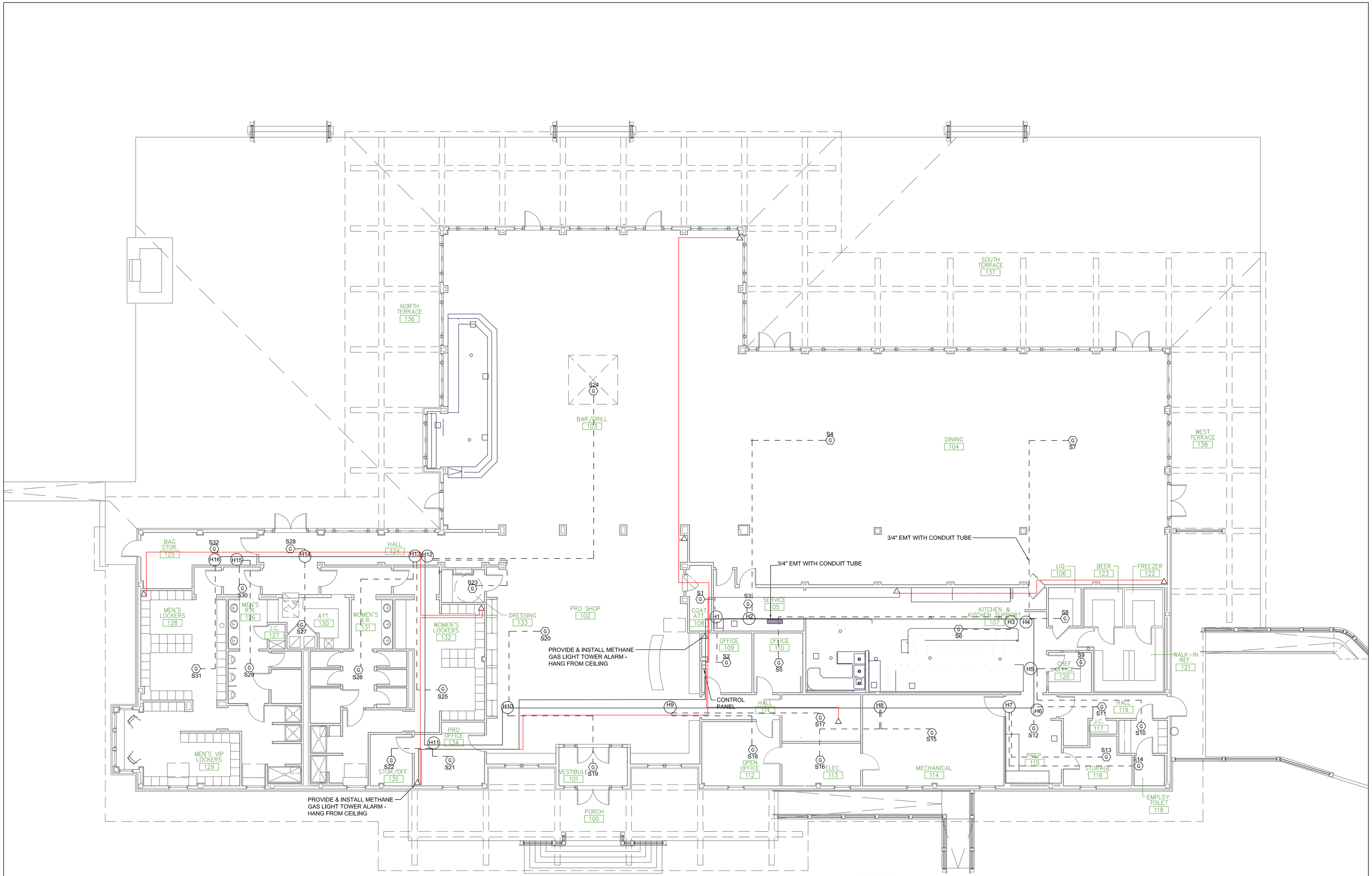

LEGEND

- GAS SENSOR
- METHANE GAS SENSOR CONTROL PANEL
- METHANE GAS LIGHT TOWER ALARM
- 3/4" EMT WITH CONDUIT TUBE
- 3/4" EMT WITH CONDUIT TUBE
- POWER SUPPLY/ TRANSMITTER WITH POWER
- RED FIREWIRE ALARM CABLE

Environmental Management Services

50 Prescott Street
Jersey City, NJ 07304
Phone: 201-395-0010
Fax: 201-395-0020

No.	Date	Revision

Designer:		
Drawn by:	CM	
Checked by:	ML	
Scale: 1/8" = 1'		Date: 9/21/2017

Project:
FERRY POINT CLUBHOUSE

Address:
300 HUTCHINSON RIVER PARKWAY
BRONX, NEW YORK 10465

Drawing Title:
METHANE MONITORING SYSTEM
CEILING PLAN

Drawing No.:
SD201

Sheets in Drawing Set:
01 of 01

APPENDIX D

Letter from NYSDEC to Trump Golf Links at Ferry Point re: "Ferry Point Park SSDS Foundation Drawings – Trump Golf Links Clubhouse" dated June 22, 2017

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4996 I F: (718) 482-6391
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June 22, 2017

Joe Roediger
General Manager
Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, NY 10465

Re: Ferry Point Park
SSDS/Foundation Drawings – Trump Golf Links Clubhouse

Dear Mr. Roediger,

New York State Department of Environmental Conservation (department) staff have reviewed the Ferry Point Park Sub-Slab Depressurization System plan and included attachments, prepared by French & Parrello Associates, which was provided by your letter dated June 12th, 2017.

The above-referenced plan appears to comply with the applicable regulations, and, therefore, is approved on the following conditions:

1) The alarm set point for the gas monitoring system is set to 25% LEL.

2) On the completion of the project and prior to occupancy of the building, a construction certification letter from a New York State registered professional engineer must be sent to the department for approval stating that the Ferry Point Park Sub-Slab Depressurization System and Foundation was constructed in accordance with the above-referenced plan and attachments. If there are deviations to the construction, they must be specified.

If you have any questions you may contact me at 718-482-4996.

Sincerely yours,

Kenneth B. Brezner

Kenneth B. Brezner, P.E.
Regional Material Management Engineer

ec: J. O'Connell/W. Frank, R2 DMM
K. Zias, NYC DPR

FPP_SSDSFoundation_Plan_Approval.2017-06-22.Letter.docx

APPENDIX E

Maser Consulting P.A. Letter of Transmittal to NYSDEC (via the Trump Organization) re: "Construction Certification – SSDS" dated June 7, 2018

MASER CONSULTING P.A.

Engineers
Planners
Surveyors
Landscape Architects
Environmental Scientists

2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
T: 856.797.0412
F: 856.722.1120
www.maserconsulting.com

LETTER OF TRANSMITTAL

To: NYS Dept. of Environmental Conservation
Division of Materials Management, Reg. 2
47-40 21st Street
Long Island City, NY 11101

Date: 06/07/2018	Job No.: 17002426A
Attention:	Kenneth B. Brezner, P.E.
	Regional Material Management Engineer
RE:	Construction Certification
	Subslab Depressurization System (SSDS)
	Trump Golf Links at Ferry Point Clubhouse, Bronx NY
VIA	

WE ARE SENDING YOU:

- [ ] **CD**
- [ ] **Under separate cover** _____ **the following items:**

- [ ] **Shop Drawings**
- [ ] **Samples**
- [ ] **Change order**
- [ ] **Prints**
- [ ] **Specifications**
- [ ] **Plans**
- [ ] **Copy of Letter**

COPIES	DATE	NO.	Description
1	06/22/17	1	Letter from NYSDEC to Trump Golf Links at Ferry Point (Joe Roediger) re: Ferry Point Park – SSDS/Foundation Drawings – Trump Golf Links Clubhouse
1	06/07/18	1	Construction Certification Statement from Donald Bowman, P.E., New York Registration No. 095674
1	06/07/18	1	Site Summary
1	09/15/17	1	Drawing No. FO-500.00 "Vapor Remediation Underslab Plan" issued for construction
1	09/15/17	1	Drawing No. FO-501.00 "Vapor Remediation Floor Plan" issued for construction
1	09/15/17	1	Drawing No. FO-502.00 "Vapor Remediation Attic & Mezzanine Plan" issued for construction
1	09/15/17	1	Drawing No. FO-503.00 "Vapor Remediation Notes & Schedule" issued for construction
1	09/15/17	1	Drawing No. FO-504.00 "Vapor Remediation Details" issued for construction
1	06/07/18	1	Drawing Nos. FO-500, FP-501, FO-502 & FO-504 showing deviations from design
1	06/07/18	1	CD of Construction Daily Field Reports

THESE ARE TRANSMITTED as checked below:

- [x] **For approval**
- [ ] **For your use**
- [ ] **As Requested**
- [ ] **For review and comment**
- [ ] **FOR BIDS DUE:**
- [ ] **Approved as submitted**
- [ ] **Approved as noted**
- [ ] **Returned for corrections**
- [ ] **Resubmit copies for approval**
- [ ] **Submit copies for distribution**
- [ ] **Returned corrected prints**
- [ ] **PRINTS RETURNED AFTER LOAN TO US**

REMARKS:

Signed: Donald Bowman, P.E.

Copy To: Kay Zias, NYC Department of Parks & Recreation
Steve Lauria, P.E., Woodard & Curran
John Gruber, Construction Manager, The Trump Organization
Joe Roediger, General Manager, The Trump Organization

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4996 I F: (718) 482-6391
www.dec.ny.gov

June 22, 2017

Joe Roediger
General Manager
Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, NY 10465

Re: Ferry Point Park
SSDS/Foundation Drawings – Trump Golf Links Clubhouse

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1) The alarm set point for the gas monitoring system is set to 25% LEL.

2) On the completion of the project and prior to occupancy of the building, a construction certification letter from a New York State registered professional engineer must be sent to the department for approval stating that the Ferry Point Park Sub-Slab Depressurization System and Foundation was constructed in accordance with the above-referenced plan and attachments. If there are deviations to the construction, they must be specified.

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Sincerely yours,

Kenneth B. Brezner

Kenneth B. Brezner, P.E.
Regional Material Management Engineer

ec: J. O'Connell/W. Frank, R2 DMM
K. Zias, NYC DPR

FPP_SSDSFoundation_Plan_Approval.2017-06-22.Letter.docx

Certification Statement

I, Donald Bowman, an employee of Maser Consulting P.A. and a Registered Professional Engineer licensed by the State of New York, exercising independent judgment and discretion do hereby certify that this Subslab Depressurization System (SSDS) for the Trump Golf Links at Ferry Point Clubhouse was constructed under my direction and supervision. The information contained herein is based upon: (1) work which I have personally inspected both during and after construction from July 2017 to date; (2) information provided to me by those directly employed by Maser Consulting P.A.; (3) Design Consultants; and (4) contractors responsible for construction pursuant to their contracts except as indicated[1].

I certify that, from July 2017 to date, Maser Consulting representatives observed the installation of the critical elements of the SSDS for the Trump Golf Links at Ferry Point Clubhouse, with the following deviations from design:

- Drawing No. FO-500.00 "Vapor Remediation Underslab Plan" – lateral piping to SSDS pits DP-2B & DP-2C built approximately 2 feet offset from design due to piping conflicts
- Drawing No. FO-501.00 "Vapor Remediation Floor Plan" – riser piping for fan units SF-1 & SF built within walls to conceal system and prevent unauthorized access; gas sensors in Hall 124, Vestibule 101 & Electrical 113 ceilings built approximately 3-5 feet from design due to piping conflicts
- Drawing No. FO-502.00 "Vapor Remediation Attic & Mezzanine Plan" – fan unit SF-1 built approximately 10 feet to the left of design due to piping conflicts
- Drawing No. FO-504.00 "Vapor Remediation Details" – detail 1B built using hollow (instead of solid) concrete blocks; 'Methane Gas Sensor Detail (option 1)' & 'Methane Gas Sensor Detail (option 2)' added for sensor plenum boxes

STATE OF NEW YORK
DONALD F. BOWMAN
No. 095674
LICENSED PROFESSIONAL ENGINEER

Donald Bowman, P.E.
Maser Consulting P.A.

6/7/2018
Date

[1] Certification means a statement of professional opinion based upon investigation, analysis, knowledge and belief that is stated to be true and accurate. 6 NYCRR Part 360-1.2(b)24.

Site Summary[1]

Ferry Point Park in the Bronx (the "Site") is a former landfill covering 222 acres that is bound by the Bronx-Whitestone Bridge and Hutchinson River Parkway to the west, Balcom/Miles/Emerson Avenues to the east, Schley Avenue and St. Raymond's Cemetery to the north, and the East River to the south. The project was originally managed under Ferry Point Partners, LLC and was taken over solely by the City of New York Department of Parks and Recreation in October 2007.

The origins of the site back to the early 1900s. At that time an available 1900 map of the Bronx showed the western edge of the site which now contains the expressway and Whitestone Bridge was a long narrow peninsula extending out to the same area that the northern landing of the Whitestone Bridge now extends. Immediately east of this peninsula was a large open bay which is the area that the Ferry Point Golf Course is now located. Northeast of the bay and well inlandwas the Baxter Creek that drained into the bay. The eastern landfall of this embayment area is a larger peninsula that contains roadways and a residential development. The road patterns do not resemble the roadways that currently exist in that area and appear to have been changed.

A 1938 aerial photo showing the construction of the Whitestone Bridge shows the Bay, mooring, residential area and land to the west to be virtually the same as shown in the 1900 map. The significant change is in the widening of the western peninsula where the expressway was being constructed leading to the bridge ramps. The widening was not significant at this time but a rectangular area in the extreme northwest corner of what is now the site appears to be filled and graded – possibly to support construction staging area for the bridge/expressway. Areas of filling can be readily identified in the photograph by the contrasting lighter color typically indicative of sandy dredge sand placement. Other areas along the shoreline can be seen as containing a lighter colored band of fill material and this includes much of the new Ferry Point Park located west of the Whitestone Bridge. Much of the park area was filled and graded by 1938. Bulkheads were constructed with linear components to present a smooth shoreline but one that does not appear to contain a beach where water diminishes in depth to 0. Photos of the eastern area of the bay where mooring and docks can be seen showing large vessels moored against the shore. This would indicate the water had significant depth all of the way to the center of the bay.

Aerial photographs from the 1950s show a drastic change in the area currently referred to as the site. Large expansion of the filling that was evident in 1938-39 up in the northeast corner can be clearly seen. The filling extends well into the bay and it appears that a connective bridge was constructed from the eastern shore to the fill area. It is difficult to discern if this is a usable structure for crossing or if it had some other purpose. The filling operation appears from the photo to consist of the same light-colored material that was placed in the Ferry Point Park and from photos showing a large number of barges in the water filled with material of the same light color. There is specific documentation that presents the specific origin and consistency of the

[1] Reference: "Ferry Point Park Golf Course & Community Park, Bronx New York, Final Construction Certification Report, NYSDEC Permit #2-6006-00014 / 00013 (SW)" prepared by the City of New York Department of Parks and Recreation dated October 19, 2015

material. but from the prior aerials showing filling and this large expansion, it appears to be of a similar origin which would be dredge sand. In the 1951 aerial, no specific municipal solid waste dumping and disposal can be seen; however, records indicate the landfill operated during this approximate time period. It is therefore assumed that municipal solid waste was disposed shortly after the photo was taken. The landfilling shown in the aerial may have been the initial construction of the upper portion of the landfill with the tidal gate or bridge closing in the upper bay area. Additional aerials of the landfilling were not identified and more recent aerials document the completion of filling as well as the more recent golf course construction.

What can be discerned from this compilation of photos is that the landfill could be located in an area that may have been open water as well as some area that was previously reclaimed land with dredge material.

The Site operated as a landfill from before 1951 to the 1960s. The landfill reportedly accepted municipal solid waste during its operating period and was closed and covered in the mid-1960s, with additional closure operations conducted more recently in the 1980s. Prior Site use was determined from historic aerial photographs from 1938 thru 1991. The aerial photographs span the entire operational period of the prior landfill, from its initial operations to the present, and provides substantial information about the Site's development.

The original project scope included the construction of three main elements including a golf course, a community park, and a waterfront park over the 222-acre Site as follows:

- An 18-hole golf course with practice facility, driving range, clubhouse, maintenance facility, irrigation lake, stormwater retention ponds, and a parking lot (192.5 acres);
- A passive recreation waterfront park with walkways and a comfort station (19.5 acres); and
- A community park with baseball fields, basketball court, walkways, comfort station, and landscaped stormwater retention area (10 acres)

Construction of a permanent clubhouse in the southern corner of the site began in July 2017, with a projected completion date of June 2018.

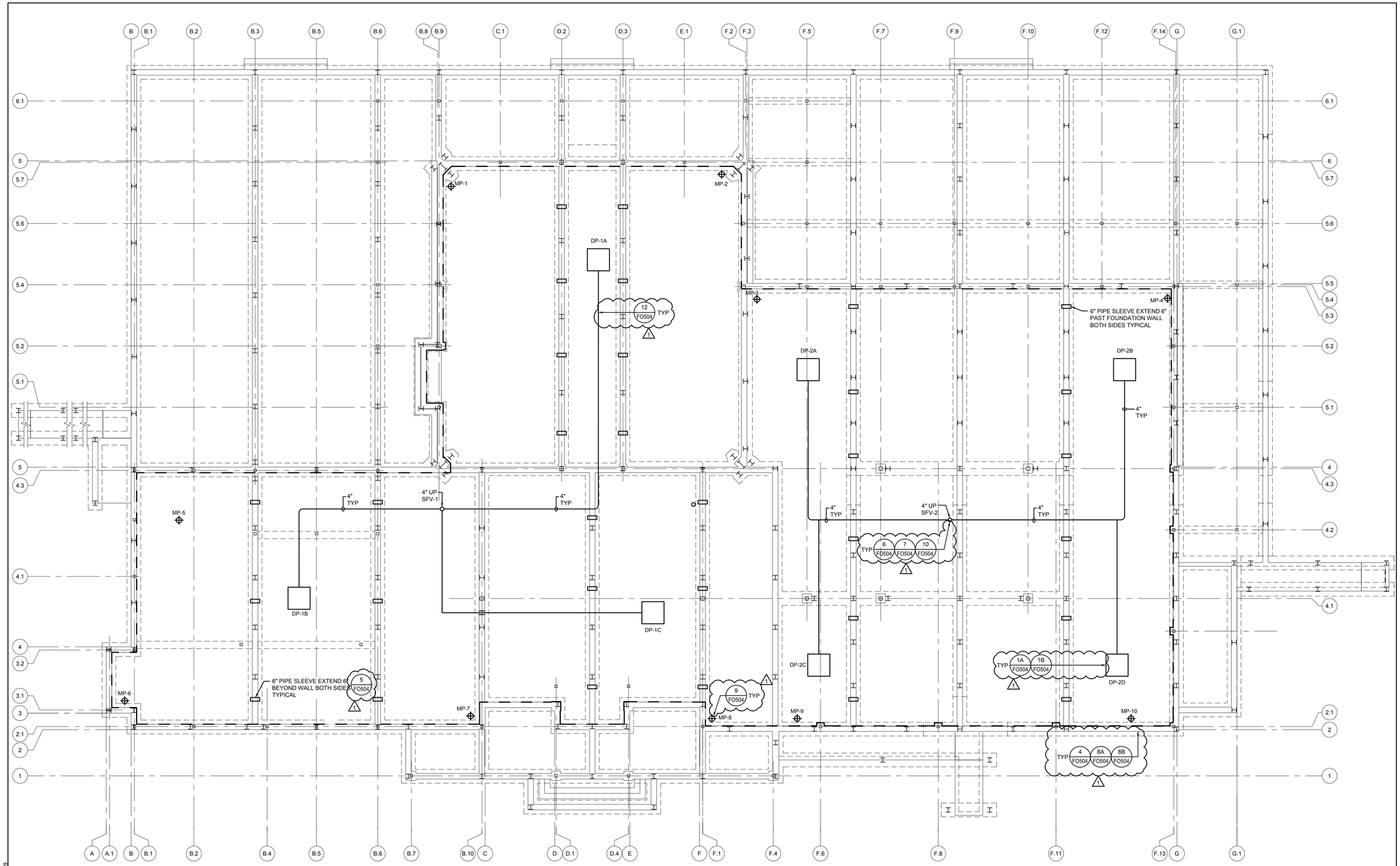

UNDERSLAB PLAN

SCALE: 1/8" = 1'-0"

NOTES :

1. DRAWINGS NOT TO BE USED FOR STRUCTURAL, ARCHITECTURAL OR OTHER REFERENCE EXCEPT FOR SUB-SLAB DEPRESSURIZATION SYSTEM.
2. THE EXTENTS OF BUILDING CONSTRUCTION BENEATH THE FLOOR SLABS SHALL BE LINED WITH GAS VAPOR BARRIER. AS PART OF BUILDING CONSTRUCTION, THE GAS VAPOR BARRIER SHALL ALSO BE APPLIED VERTICALLY TO BELOW GRADE WALLS AND WALLS OF PITS AND SUMPS AS SHOWN AND SPECIFIED.
3. SLOPE HORIZONTAL PIPE UNIFORMLY A MINIMUM OF 1% TOWARD SUB-SLAB DEPRESSION SYSTEM PITS OR TO CONDENSATE DRAINS WHEN PIPING CANNOT BE SLOPED TO PIT.
4. SECURE VERTICAL RISER TO WALL IN ACCORDANCE WITH ARCHITECTURAL AND PLUMBING REQUIREMENTS.
5. ELECTRICAL WIRING AND EQUIPMENT NOT SHOWN. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR REFERENCES.
6. SEAL ALL JOINTS IN SLAB ON GRADE, INCLUDING BUT NOT LIMITED TO, CONTROL JOINTS, EXPANSION JOINTS, CRACKS, WALL JOINTS, PENETRATIONS ETC. WITH NON-CRACKING CAULK. POLYURETHANE TYPE PREFERRED.
7. COORDINATE GAS VENTING SYSTEM WITH ALL TRADES, INCLUDE VENTING SYSTEM PIPING ON COORDINATION DRAWINGS.
8. ALL GAS VENTS SHALL BE CONTINUOUS FROM UNDERSLAB STONE BASE TO 36" ABOVE ROOF LINE OR PARAPET (WHICHEVER IS HIGHER). ALL VENTS SHALL BE 10'-0" MIN FROM LOT LINES, OUTSIDE AIR INTAKES, WINDOWS, ETC.
9. DRAWING ILLUSTRATES WALLS AND ALL SLAB ON GRADE FLOOR AREAS. COORDINATE THIS WORK WITH ARCHITECTURAL, MECHANICAL, AND STRUCTURAL PLANS.
10. ALL GAS VENT PIPING SHALL BE PVC PIPING. WHERE PIPING IS LOCATED IN RETURN AIR PLENUMS CHANGE MATERIAL TO NO-HUB CAST IRON PIPE.
11. LABEL GAS PIPING AT INTERVALS OF NOT MORE THAN 25 FT IN CONCEALED LOCATIONS AND NOT MORE THAN 50 FT ON EXPOSED AND NOT LESS THAN ONCE IN ANY ROOM OR SPACE.
12. GAS VAPOR BARRIER TO BE INSTALLED IMMEDIATELY BELOW FLOOR SLAB AS INDICATED ON THE STRUCTURAL DRAWINGS. PROVIDE 12" MINIMUM CLEAN #57 STONE SUB-BASE FOR GAS MITIGATION SYSTEM.
13. SLOPE HORIZONTAL PIPE A MINIMUM OF 1% UNIFORMLY TOWARD SUCTION PITS.
14. REFER TO SPECIFICATION FOR ADDITIONAL SUB-SLAB DEPRESSURIZATION SYSTEM AND ACCESSORIES REQUIREMENTS.

LEGEND

- EXTENT OF GAS PERMEABLE AGGREGATE LAYER BENEATH FLOOR SLAB
- 4" SCHEDULE 80 PVC PIPE
- SFV-1 — SUCTION FAN VERTICAL 4" RISER AND IDENTIFICATION NUMBER. EXTEND THRU ATTIC TO SUCTION FAN
- MP-1 — SUB-SLAB MONITORING POINT AND IDENTIFICATION NUMBER
- DP-1A — SUB-SLAB DEPRESURAIZATION PIT AND IDENTIFICATION NUMBER

PROVIDE LIQUID BOOT GAS VAPOR BARRIER SYSTEM UNDER SLAB AS MANUFACTURED BY CETCO CONSISTING OF ULTRASHIELD G-1000, 60 DRY MILS LIQUID BOOT AND LIQUID BOOT BASE FABRIC. SYSTEM SHALL INSTALLED BY AUTHORIZED INSTALLER. REFER TO DETAILS FOR ADDITIONAL INFORMATION. REFER TO CONTRACT DOCUMENTS FOR LOCATIONS OF PENETRATIONS THROUGH THE SLAB.

OFFSET VENT ABOVE CEILING AT ROOF AND EXTEND THROUGH ROOF APPROXIMATELY 3' FROM PARAPET WALLS AND TERMINATE 24" ABOVE FINISHED ROOF.

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FRENCH & PARRELLO ASSOCIATES

Corporate Office
1800 Route 34, Suite 101
Wall, NJ 07719
732 312-9600
Regional Offices
Hackettstown, NJ
New York, NY

JONATHAN V. CRAWFORD, PE
PROFESSIONAL ENGINEER, NY LIC. No. 91249

FOR CONSTRUCTION

HART | HOWERTON
PLANNERS ARCHITECTS
LANDSCAPE ARCHITECTS
HART/HOWERTON, PLANNING, ARCHITECTURE AND LANDSCAPE ARCHITECTURE, P.C.
10 East 40th Street New York, NY 10016
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E-mail: NY@harthowerton.com

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THE TRUMP ORGANIZATION

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Bronx, New York 10465

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07-01-15	70% CD
07-27-15	90% CD
09-15-17	FOR CONSTRUCTION

REVISIONS

NO	DATE	ISSUE
3	02-17-17	REMOVE BSMT
	03-30-17	DEC REVIEW
	04-07-17	RE-BID/ REMOVE BSMT
4	05-05-17	COMMENTS

DRAWING TITLE: VAPOR REMEDIATION UNDERSLAB PLAN

PROJECT #: 14-534
DRAWN BY:
CHECKED BY: FRM

DRAWING NO: FO-500.00

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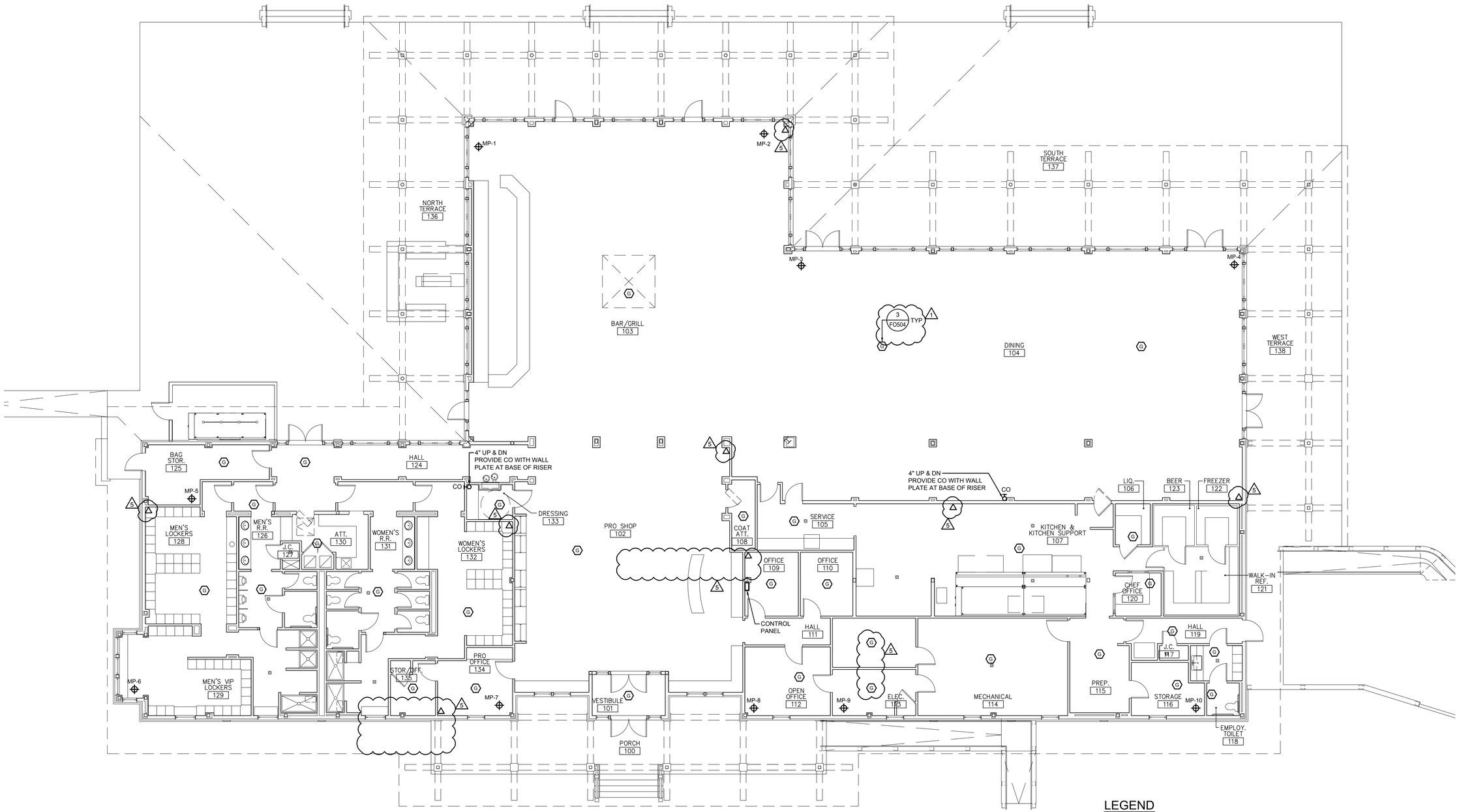

FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

LEGEND

SFV-1	SUCTION FAN VERTICAL 4" RISER AND IDENTIFICATION NUMBER. EXTEND THRU ATTIC TO SUCTION FAN
MP-1	SUB-SLAB MONITORING POINT AND IDENTIFICATION NUMBER
G	GAS SENSOR
	METHANE GAS SENSOR CONTROL PANEL
△	METHANE GAS LIGHT TOWER ALARM - HANG FROM CEILING

FOR CONSTRUCTION

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4	05-05-17	COMMENTS
5	06-06-17	DEC COMMENTS

DRAWING TITLE: VAPOR REMEDIATION FLOOR PLAN

PROJECT #: 14-534
DRAWN BY:
CHECKED BY: FRM

DRAWING NO: FO-501.00

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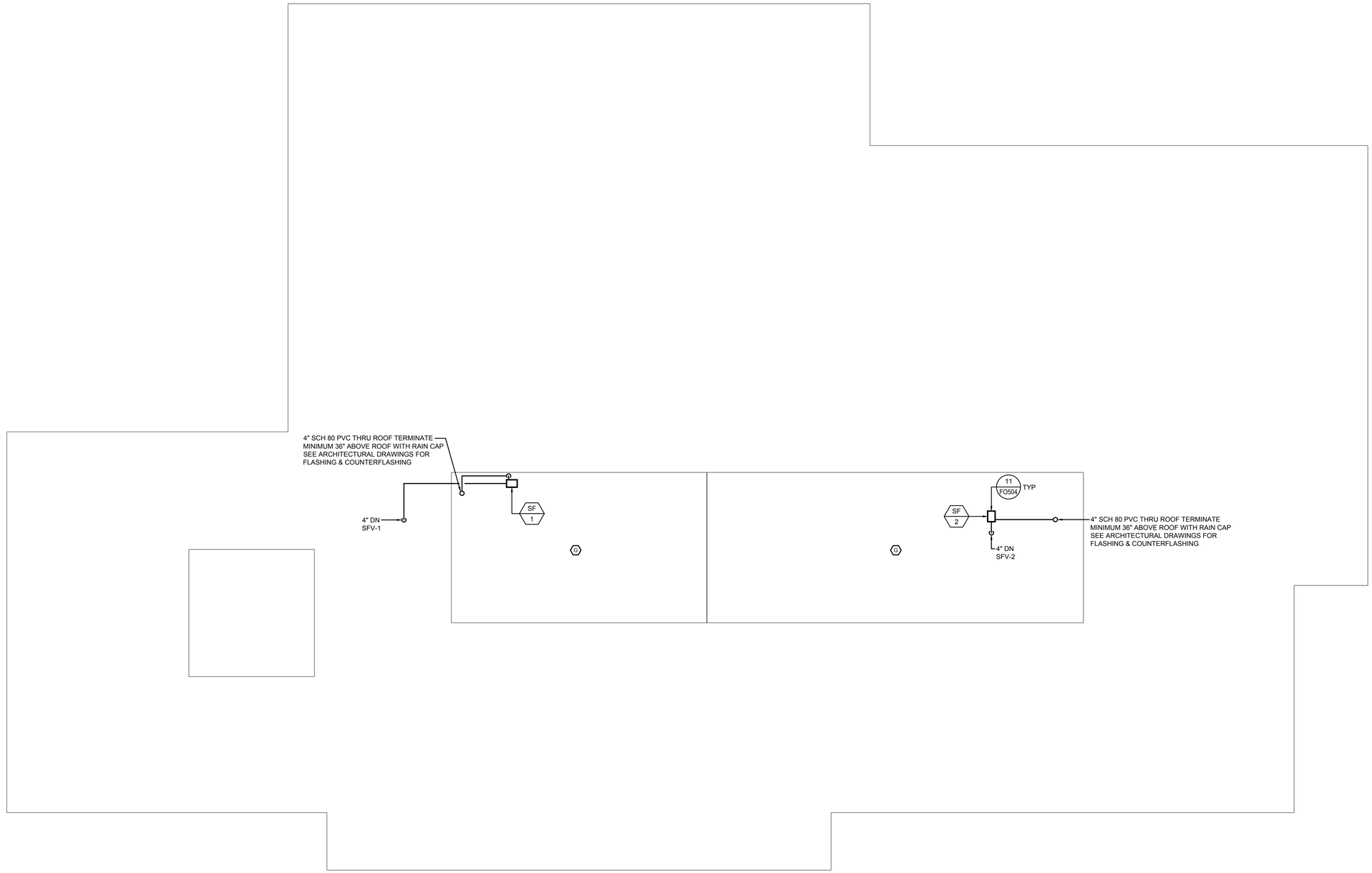

ATTIC/MEZZANINE PLAN

SCALE: 1/8" = 1'-0"

FOR CONSTRUCTION

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3	04-07-17	RE-BID/ REMOVE BSMT
4	05-05-17	COMMENTS
5	09-06-17	VE

DRAWING TITLE:
VAPOR REMEDIATION ATTIC & MEZZANINE PLAN

PROJECT #: 14-534
DRAWN BY:
CHECKED BY: FRM

DRAWING NO:
FO-502.00

O:\9K\9000\9634 - Ferry Point Clubhouse\CADD\DW\G9634.001 - FO-502.dwg

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VAPOR REMEDIATION GENERAL NOTES

A. SCOPE

1. ALL CONSTRUCTION SHALL COMPLY WITH THE NYSDEC APPROVED POST CONSTRUCTION CUSTODIAL CARE PLAN DATED OCTOBER 2013, PREPARED BY NYC DPR, INCLUDING THE APPROPRIATE HANDLING OF COVER, SOIL, SHAPING LAYER MATERIAL, DEMARCATION LAYER MATERIALS, AND MSW, AND INSPECTION AND CONSTRUCTION CERTIFICATION REQUIREMENTS.
2. THE GAS MITIGATION SYSTEM IS TO BE INSTALLED BY A LICENSED GAS MITIGATION CONTRACTOR IN THE STATE OF NEW YORK. CONTRACTOR TO SUBMIT DESIGN SHOP DRAWINGS FOR REVIEW PRIOR TO CONSTRUCTION.
3. THE REQUIREMENTS ADDRESSED IN THE GAS MITIGATION SYSTEM (GMS) INCLUDE THE FOLLOWING CATEGORIES OF CONTRACTOR ACTIVITY: GENERAL PRACTICES, WORKER HEALTH AND SAFETY, SYSTEMS INSTALLATION, MATERIALS, MONITORS AND LABELING, POST-MITIGATION TESTING, AND CONTRACTS AND DOCUMENTATION.

B. IMPLEMENTATION

1. THE GMS INCLUDES REQUIREMENTS FOR INSTALLATION OF GAS REMEDIATION SYSTEMS AND PROVIDES A BASIS FOR EVALUATING THE QUALITY OF THOSE INSTALLATIONS. IT MAY BE ADOPTED BY STATE REGULATORY AGENCIES FOR STATE OR LOCAL GAS MITIGATION CONTRACTOR LICENSURE PROGRAMS. IT MAY ALSO BE USED AS A REFERENCE DURING INSPECTION OF IN-PROGRESS OR COMPLETED GAS MITIGATION WORK.
2. CONTRACTORS SHALL PERSONALLY CONDUCT FOLLOW-UP INSPECTION OF ANY GAS MITIGATION SYSTEMS INSTALLED BY THEIR FIRM OR BY SUBCONTRACTORS TO INSURE CONFORMANCE WITH THE REQUIREMENTS OF THE GMS. THIS REQUIREMENT SHALL INCLUDE THE POST-MITIGATION TESTING PRESCRIBED IN THIS SPECIFICATION.
3. THOSE PROVISIONS OF THE GMS THAT ARE CONSIDERED TO BE MANDATORY ARE PREFACED BY THE TERM "SHALL." PROVISIONS THAT ARE CONSIDERED GOOD PRACTICE BUT WHICH ARE NOT MANDATORY ARE PREFACED BY THE TEGMS "SHOULD" OR "RECOMMENDED."

C. LIMITATIONS

1. ALTHOUGH THE PROVISIONS OF THE GMS HAVE BEEN CAREFULLY REVIEWED FOR POTENTIAL CONFLICTS WITH OTHER REGULATORY REQUIREMENTS, ADHERENCE TO THE GMS DOES NOT GUARANTEE COMPLIANCE WITH THE APPLICABLE CODES OR REGULATIONS OF ANY OTHER FEDERAL, STATE, OR LOCAL AGENCY HAVING JURISDICTION.
2. WHERE DISCREPANCIES EXIST BETWEEN PROVISIONS OF THE GMS AND LOCAL CODES OR REGULATIONS, LOCAL CODES SHALL TAKE PRECEDENCE. HOWEVER, WHERE COMPLIANCE WITH LOCAL CODES NECESSITATES A DEVIATION FROM THE GMS, EPA RECOMMENDS THAT RPP LISTED MITIGATION SERVICE PROVIDERS (MITIGATION CONTRACTORS) REPORT THE DEVIATION IN WRITING TO THE APPROPRIATE EPA REGIONAL OFFICE AND THE APPROPRIATE STATE REGULATORY OFFICIAL WITHIN 30 DAYS. IT SHOULD BE NOTED THAT EPA IS NOT REQUIRING THE REPORTING THAT IS RECOMMENDED IN THIS PARAGRAPH. STATES WITH GAS MITIGATION CONTRACTOR CERTIFICATION PROGRAMS MAY REQUIRE THAT CONTRACTORS GIVE PRIOR NOTIFICATION OF THEIR INTENT TO DEVIATE FROM THE GMS FOR RESEARCH OR OTHER PURPOSES.
3. THE GMS IS NOT INTENDED TO BE USED AS A DESIGN MANUAL, AND COMPLIANCE WITH ITS PROVISIONS WILL NOT GUARANTEE REDUCTION OF INDOOR GAS CONCENTRATIONS TO ANY SPECIFIC LEVEL.
4. BECAUSE OF THE WIDE VARIATION IN BUILDING DESIGN, SIZE, OPERATION AND USE, THE GMS DOES NOT INCLUDE DETAILED GUIDANCE ON HOW TO SELECT THE MOST APPROPRIATE MITIGATION STRATEGY FOR A GIVEN BUILDING. THAT GUIDANCE IS PROVIDED IN THE DOCUMENTS REFERENCED IN IN THIS SPECIFICATION.
5. CONTRACTORS WHO EXPECT TO DEVIATE FROM PROVEN GAS MITIGATION TECHNOLOGIES AND METHODS FOR PURPOSES OF RESEARCH ON INNOVATIVE MITIGATION TECHNIQUES, SHALL OBTAIN PRIOR APPROVAL FROM STATE REGULATORY OFFICES, DOCUMENT THE NON-STANDARD TECHNIQUES, AND INFORM THE CLIENT OF THE DEVIATION FROM STANDARD PROCEDURES. IN CASES WHERE GAS MITIGATION IS NOT REGULATED BY THE STATE, CONTRACTORS SHALL OBTAIN PRIOR APPROVAL FROM A REGIONAL EPA OFFICE.

D. WORKER HEALTH AND SAFETY

1. CONTRACTORS SHALL COMPLY WITH ALL OSHA, STATE AND LOCAL STANDARDS OR REGULATIONS RELATING TO WORKER SAFETY AND OCCUPATIONAL GAS EXPOSURE. APPLICABLE REFERENCES IN THE CODE OF FEDERAL REGULATIONS AND NIOSH PUBLICATIONS.
2. IN ADDITION TO THE OSHA AND NIOSH STANDARDS, THE FOLLOWING REQUIREMENTS THAT ARE SPECIFICALLY OR UNIQUELY APPLICABLE FOR THE SAFETY AND PROTECTION OF GAS MITIGATION WORKERS SHALL BE MET:
   a. THE CONTRACTOR SHALL ADVISE WORKERS OF THE HAZARDS OF EXPOSURE TO GAS AND THE NEED TO APPLY PROTECTIVE MEASURES WHEN WORKING IN AREAS OF ELEVATED GAS CONCENTRATIONS.
   b. THE CONTRACTOR SHALL HAVE A WORKER PROTECTION PLAN ON FILE THAT IS AVAILABLE TO ALL EMPLOYEES AND IS APPROVED BY ANY STATE OR LOCAL REGULATING AGENCIES THAT REQUIRE SUCH A PLAN. EXCEPTION: A WORKER PROTECTION PLAN IS NOT REQUIRED FOR A CONTRACTOR WHO IS A SOLE PROPRIETOR UNLESS REQUIRED BY STATE OR LOCAL REGULATIONS.
   c. THE CONTRACTOR SHALL ENSURE THAT APPROPRIATE SAFETY EQUIPMENT SUCH AS HARD HATS, FACE SHIELDS, EAR PLUGS, STEEL-TOE BOOTS AND PROTECTIVE GLOVES ARE AVAILABLE ON THE JOB SITE DURING CUTTING, DRILLING, GRINDING, POLISHING, DEMOLISHING OR OTHER ACTIVITY ASSOCIATED WITH GAS MITIGATION PROJECTS.
   d. ALL ELECTRICAL EQUIPMENT USED DURING GAS MITIGATION PROJECTS SHALL BE PROPERLY GROUNDED. CIRCUITS USED AS A POWER SOURCE SHOULD BE PROTECTED BY GROUND-FAULT CIRCUIT INTERRUPTERS (GFCI).
   e. WHEN WORK IS REQUIRED AT ELEVATIONS ABOVE THE GROUND OR FLOOR, THE CONTRACTOR SHALL ENSURE THAT LADDERS OR SCAFFOLDING ARE SAFELY INSTALLED AND OPERATED.
   f. WORK AREAS SHALL BE VENTILATED TO REDUCE WORKER EXPOSURE TO GAS DECAY PRODUCTS, DUST, OR OTHER AIRBORNE POLLUTANTS. IN WORK AREAS WHERE VENTILATION IS IMPRACTICAL OR WHERE VENTILATION CANNOT REDUCE GAS LEVELS TO LESS THAN 0.3 WL (BASED ON A SHORT TERM DIAGNOSTIC TEST, E.G., GRAB SAMPLE), THE CONTRACTOR SHALL ENSURE THAT RESPIRATORY PROTECTION CONFOGMS WITH THE REQUIREMENTS IN THE NIOSH GUIDE TO INDUSTRIAL RESPIRATORY PROTECTION. ((NOTE: IF UNABLE TO MAKE WORKING LEVEL MEASUREMENTS, A GAS LEVEL OF 30 PCI/L SHALL BE USED.)
   g. WHERE COMBUSTIBLE MATERIALS EXIST IN THE SPECIFIC AREA OF THE BUILDING WHERE GAS MITIGATION WORK IS TO BE CONDUCTED AND THE CONTRACTOR IS CREATING ANY TEMPERATURES HIGH ENOUGH TO INDUCE A FLAME, THE CONTRACTOR SHALL ENSURE THAT FIRE EXTINGUISHERS SUITABLE FOR TYPE A, B, AND C FIRES ARE AVAILABLE IN THE IMMEDIATE WORK AREA.
   h. PENDING DEVELOPMENT OF AN APPROVED PERSONAL GAS EXPOSURE DEVICE AND A PROTOCOL FOR ITS USE, CONTRACTORS SHALL RECORD EMPLOYEE EXPOSURE TO GAS AT EACH WORK SITE, BASED ON:
      1) THE HIGHEST PRE-MITIGATION INDOOR GAS OR WORKING LEVEL MEASUREMENT AVAILABLE, AND
      2) THE TIME EMPLOYEES ARE EXPOSED (WITHOUT RESPIRATOR PROTECTION) AT THAT LEVEL

      (NOTE: THIS APPROACH IS NOT INTENDED TO PRECLUDE THE ALTERNATIVE USE OF ON-SITE GAS OR GAS DECAY PRODUCT MEASUREMENTS TO DETERMINE EXACT EXPOSURE.) CONSISTENT WITH OSHA PERMISSIBLE EXPOSURE LIMITS, CONTRACTORS SHALL ENSURE THAT EMPLOYEES ARE EXPOSED TO NO MORE THAN 4 WORKING LEVEL MONTHS (WLM) OVER A 12 MONTH PERIOD. (AN EQUILIBRIUM RATIO OF 50 PERCENT SHALL BE USED TO CONVERT GAS EXPOSURE TO WLM.)
   i. WHEN MITIGATION WORK REQUIRES THE USE OF SEALANTS, ADHESIVES, PAINTS, OR OTHER SUBSTANCES THAT MAY BE HAZARDOUS TO HEALTH, CONTRACTORS SHALL PROVIDE EMPLOYEES WITH THE APPLICABLE MATERIAL SAFETY DATA SHEETS (MSDS) AND EXPLAIN THE REQUIRED SAFETY PROCEDURES.

E. SYSTEMS REQUIREMENT

1. ALL GAS MITIGATION SYSTEMS SHALL BE INSTALLED AS PERMANENT, INTEGRAL ADDITIONS TO THE BUILDING, EXCEPT WHERE A TEMPORARY SYSTEM HAS BEEN INSTALLED.
2. ALL GAS MITIGATION SYSTEMS SHALL BE INSTALLED TO AVOID THE CREATION OF OTHER HEALTH, SAFETY, OR ENVIRONMENTAL HAZARDS TO BUILDING OCCUPANTS, SUCH AS BACKDRAFTING OF NATURAL DRAFT COMBUSTION APPLIANCES.
3. ALL GAS MITIGATION SYSTEMS SHALL MAXIMIZE GAS REDUCTION AND IN CONSIDERATION OF THE NEED TO MINIMIZE EXCESS ENERGY USAGE, TO AVOID COMPROMISING MOISTURE AND TEMPERATURE CONTROLS AND OTHER COMFORT FEATURES, AND TO MINIMIZE NOISE.
4. ALL GAS MITIGATION SYSTEMS AND THEIR COMPONENTS SHALL COMPLY WITH THE LAWS, ORDINANCES, CODES, AND REGULATIONS OF RELEVANT JURISDICTIONAL AUTHORITIES, INCLUDING APPLICABLE MECHANICAL, ELECTRICAL, BUILDING, PLUMBING, ENERGY, AND FIRE PREVENTION CODES.

F. SYSTEMS INSTALLATION

1. GENERAL REQUIREMENTS
   a. ALL COMPONENTS OF GAS MITIGATION SYSTEMS INSTALLED IN COMPLIANCE WITH PROVISIONS OF THE GMS SHALL ALSO BE IN COMPLIANCE WITH THE APPLICABLE MECHANICAL, ELECTRICAL, BUILDING, PLUMBING, ENERGY AND FIRE PREVENTION CODES, STANDARDS, AND REGULATIONS OF THE LOCAL JURISDICTION.
   b. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED LICENSES AND PERMITS, AND DISPLAY THEM IN THE WORK AREAS AS REQUIRED BY LOCAL ORDINANCES.
   c. WHERE PORTIONS OF STRUCTURAL FRAMING MATERIAL MUST BE REMOVED TO ACCOMMODATE GAS VENT PIPES, MATERIAL REMOVED SHALL BE NO GREATER THAN THAT PERMITTED FOR PLUMBING INSTALLATIONS BY APPLICABLE BUILDING OR PLUMBING CODES.
   d. WHERE INSTALLATION OF A GAS MITIGATION SYSTEM REQUIRES PIPES OR DUCTS TO PENETRATE A FIREWALL OR OTHER FIRE RESISTANCE RATED WALL OR FLOOR, PENETRATIONS SHALL BE PROTECTED IN ACCORDANCE WITH APPLICABLE BUILDING, MECHANICAL, FIRE, AND ELECTRICAL CODES.
2. GAS VENT PIPE INSTALLATION REQUIREMENTS
   a. ALL JOINTS AND CONNECTIONS IN GAS MITIGATION SYSTEMS USING PLASTIC VENT PIPES SHALL BE PERMANENTLY SEALED WITH ADHESIVES AS SPECIFIED BY THE MANUFACTURER OF THE PIPE MATERIAL USED. JOINTS OR CONNECTIONS IN OTHER VENT PIPE MATERIALS SHALL BE MADE AIR TIGHT.
   b. ATTIC AND EXTERNAL PIPING RUNS IN AREAS SUBJECT TO SUBFREEZING CONDITIONS SHOULD BE PROTECTED TO AVOID THE RISK OF VENT PIPE FREEZE-UP.
   c. GAS VENT PIPES SHALL BE FASTENED TO THE STRUCTURE OF THE BUILDING WITH HANGERS, STRAPPING, OR OTHER SUPPORTS THAT WILL ADEQUATELY SECURE THE VENT MATERIAL. EXISTING PLUMBING PIPES, DUCTS, OR MECHANICAL EQUIPMENT SHALL NOT BE USED TO SUPPORT OR SECURE A GAS VENT PIPE.
   d. SUPPORTS FOR GAS VENT PIPES SHALL BE INSTALLED AT LEAST EVERY 6 FEET ON HORIZONTAL RUNS. VERTICAL RUNS SHALL BE SECURED EITHER ABOVE OR BELOW THE POINTS OF PENETRATION THRU FLOORS, CEILINGS, AND ROOFS, OR AT LEAST EVERY 8 FEET ON RUNS THAT DO NOT PENETRATE FLOORS, CEILINGS, OR ROOFS.
   e. TO PREVENT BLOCKAGE OF AIR FLOW INTO THE BOTTOM OF GAS VENT PIPES, THESE PIPES SHALL BE SUPPORTED OR SECURED IN A PERMANENT MANNER THAT PREVENTS THEIR DOWNWARD MOVEMENT TO THE BOTTOM OF SUCTION PITS OR SUMP PITS, OR INTO THE SOIL BENEATH AN AGGREGATE LAYER UNDER A SLAB.
   f. GAS VENT PIPES SHALL BE INSTALLED IN A CONFIGURATION THAT ENSURES THAT ANY RAIN WATER OR CONDENSATION WITHIN THE PIPES DRAINS DOWNWARD INTO THE GROUND BENEATH THE SLAB OR SOIL-GAS RETARDER MEMBRANE.
   g. GAS VENT PIPES SHALL NOT BLOCK ACCESS TO ANY AREAS REQUIRING MAINTENANCE OR INSPECTION. GAS VENTS SHALL NOT BE INSTALLED IN FRONT OF OR INTERFERE WITH ANY LIGHT, OPENING, DOOR, WINDOW OR EQUIPMENT ACCESS AREA REQUIRED BY CODE. IF GAS VENT PIPES ARE INSTALLED IN SUMP PITS, THE SYSTEM SHALL BE DESIGNED WITH REMOVABLE OR FLEXIBLE COUPLINGS TO FACILITATE REMOVAL OF THE SUMP PIT COVER FOR SUMP PUMP MAINTENANCE.
3. GAS VENT FAN INSTALLATION REQUIREMENTS
   a. VENT FANS USED IN GAS MITIGATION SYSTEMS SHALL BE SEALED TO REDUCE THE POTENTIAL FOR LEAKAGE OF SOIL GAS FROM THE FAN HOUSING.
   b. GAS VENT FANS SHALL BE SIZED TO PROVIDE THE PRESSURE DIFFERENCE AND AIR FLOW CHARACTERISTICS NECESSARY TO ACHIEVE THE GAS REDUCTION GOALS ESTABLISHED FOR THE SPECIFIC MITIGATION PROJECT
   c. GAS VENT FANS USED IN ACTIVE SOIL DEPRESSURIZATION OR BLOCK WALL DEPRESSURIZATION SYSTEMS SHALL NOT BE INSTALLED BELOW GROUND NOR IN THE CONDITIONED (HEATED/COOLED) SPACE OF A BUILDING, NOR IN ANY BASEMENT, CRAWLSPACE, OR OTHER INTERIOR LOCATION DIRECTLY BENEATH THE CONDITIONED SPACES OF A BUILDING. ACCEPTABLE LOCATIONS FOR GAS VENT FANS INCLUDE ATTICS NOT SUITABLE FOR OCCUPANCY (INCLUDING ATTICS OVER OCCUPIED) OR ON THE EXTERIOR OF THE BUILDING.
   d. GAS VENT FANS SHALL BE INSTALLED IN A CONFIGURATION THAT AVOIDS CONDENSATION BUILDUP IN THE FAN HOUSING. WHENEVER POSSIBLE, FANS SHOULD BE INSTALLED IN VERTICAL RUNS OF THE VENT PIPE.
   e. GAS VENT FANS MOUNTED ON THE EXTERIOR OF BUILDINGS SHALL BE RATED FOR OUTDOOR USE OR INSTALLED IN A WATER TIGHT PROTECTIVE HOUSING.
   f. GAS VENT FANS SHALL BE MOUNTED AND SECURED IN A MANNER THAT MINIMIZES TRANSFER OF VIBRATION TO THE STRUCTURAL FRAMING OF THE BUILDING.
   g. TO FACILITATE MAINTENANCE AND FUTURE REPLACEMENT, GAS VENT FANS SHALL BE INSTALLED IN THE VENT PIPE USING REMOVABLE COUPLINGS OR FLEXIBLE CONNECTIONS THAT CAN BE TIGHTLY SECURED TO BOTH THE FAN AND THE VENT PIPE.
5. SEALING REQUIREMENTS
   a. SUMP PITS THAT PERMIT ENTRY OF SOIL-GAS OR THAT WOULD ALLOW CONDITIONED AIR TO BE DRAWN INTO A SUB-SLAB DEPRESSURIZATION SYSTEM SHALL BE COVERED AND SEALED. THE COVERS ON SUMPS THAT PREVIOUSLY PROVIDED PROTECTION OR RELIEF FROM SURFACE WATER COLLECTION SHALL BE FITTED WITH A WATER OR MECHANICALLY TRAPPED DRAIN. WATER TRAPS SHOULD BE FITTED WITH AN AUTOMATIC SUPPLY OF PRIMING WATER.
   b. OPENINGS AROUND GAS VENT PIPE PENETRATIONS OF THE SLAB, THE FOUNDATION WALLS, OR THE CRAWLSPACE SOIL-GAS RETARDER MEMBRANE SHALL BE CLEANED, PREPARED, AND SEALED IN A PERMANENT, AIR-TIGHT MANNER USING COMPATIBLE CAULKS OR OTHER SEALANT MATERIALS. OPENINGS AROUND OTHER UTILITY PENETRATIONS OF THE SLAB, WALLS, OR SOIL-GAS RETARDER SHALL ALSO BE SEALED.
   c. OPENINGS, PERIMETER CHANNEL DRAINS, OR CRACKS THAT EXIST WHERE THE SLAB MEETS THE FOUNDATION WALL (FLOOR-WALL JOINT), SHALL BE SEALED WITH URETHANE CAULK OR EQUIVALENT MATERIAL. WHEN THE OPENING OR CHANNEL IS GREATER THAN 1/2 INCH IN WIDTH, A FOAM BACKER ROD OR OTHER COMPARABLE FILLER MATERIAL SHALL BE INSERTED IN THE CHANNEL BEFORE APPLICATION OF THE SEALANT. THIS SEALING TECHNIQUE SHALL BE DONE IN A MANNER THAT RETAINS THE CHANNEL FEATURE AS A WATER CONTROL SYSTEM. OTHER OPENINGS OR CRACKS IN SLABS OR AT EXPANSION OR CONTROL JOINTS SHOULD ALSO BE SEALED. OPENINGS OR CRACKS THAT ARE DETERMINED TO BE INACCESSIBLE OR BEYOND THE ABILITY OF THE CONTRACTOR TO SEAL SHALL BE DISCLOSED TO THE CLIENT AND INCLUDED IN THE DOCUMENTATION.
   d. WHEN INSTALLING BASEBOARD-TYPE SUCTION SYSTEMS, ALL SEAMS AND JOINTS IN THE BASEBOARD MATERIAL SHALL BE JOINED AND SEALED USING MATERIALS RECOMMENDED BY THE MANUFACTURER OF THE BASEBOARD SYSTEM. BASEBOARDS SHALL BE SECURED TO WALLS AND FLOORS WITH ADHESIVES DESIGNED AND RECOMMENDED FOR SUCH INSTALLATIONS. IF A BASEBOARD SYSTEM IS INSTALLED ON A BLOCK WALL FOUNDATION, THE TOPS OF THE BLOCKWALL SHALL BE CLOSED AND SEALED.

G. ELECTRICAL REQUIREMENTS

1. WIRING FOR ALL ACTIVE GAS MITIGATION SYSTEMS SHALL CONFORM TO PROVISIONS OF THE NATIONAL ELECTRIC CODE AND ANY ADDITIONAL LOCAL REGULATIONS.
2. WIRING MAY NOT BE LOCATED IN OR CHASED THRU THE MITIGATION INSTALLATION DUCTING OR ANY OTHER HEATING OR COOLING DUCTWORK.
3. GAS MITIGATION FANS INSTALLED ON THE EXTERIOR OF BUILDINGS SHALL BE HARD-WIRED INTO AN ELECTRICAL CIRCUIT. PLUGGED FANS SHALL NOT BE USED OUTDOORS.
4. IF THE RATED ELECTRICITY REQUIREMENTS OF A GAS MITIGATION SYSTEM FAN EXCEEDS 50 PERCENT OF THE CIRCUIT CAPACITY INTO WHICH IT WILL BE CONNECTED, OR IF THE TOTAL CONNECTED LOAD ON THE CIRCUIT (INCLUDING THE GAS VENT FAN) EXCEEDS 80 PERCENT OF THE CIRCUIT'S RATED CAPACITY, A SEPARATE, DEDICATED CIRCUIT SHALL BE INSTALLED TO POWER THE FAN.
5. AN ELECTRICAL DISCONNECT SWITCH OR CIRCUIT BREAKER SHALL BE INSTALLED IN GAS MITIGATION SYSTEM FAN CIRCUITS TO PERMIT DEACTIVATION OF THE FAN FOR MAINTENANCE OR REPAIR BY THE BUILDING OWNER OR SERVICING CONTRACTOR (DISCONNECT SWITCHES ARE NOT REQUIRED WITH PLUGGED FANS).

H. MATERIALS

1. ALL MITIGATION SYSTEM ELECTRICAL COMPONENTS SHALL BE U.L. LISTED OR OF EQUIVALENT SPECIFICATIONS.
2. AS A MINIMUM, ALL PLASTIC VENT PIPES IN MITIGATION SYSTEMS SHALL BE MADE OF SCHEDULE 80 PVC OR EQUIVALENT PIPING MATERIAL.
3. VENT PIPE FITTINGS IN A MITIGATION SYSTEM SHALL BE OF THE SAME MATERIAL AS THE VENT PIPES.
4. CLEANING SOLVENTS AND ADHESIVES USED TO JOIN PLASTIC PIPES AND FITTINGS SHALL BE AS RECOMMENDED BY MANUFACTURERS FOR USE WITH THE TYPE OF PIPE MATERIAL USED IN THE MITIGATION SYSTEM.
5. WHEN SEALING CRACKS IN SLABS AND OTHER SMALL OPENINGS AROUND PENETRATIONS OF THE SLAB AND FOUNDATION WALLS, CAULKS AND SEALANTS DESIGNED FOR SUCH APPLICATION SHALL BE USED. URETHANE SEALANTS ARE RECOMMENDED BECAUSE OF THEIR DURABILITY.
6. WHEN SEALING HOLES FOR PLUMBING ROUGH-IN OR OTHER LARGE OPENINGS IN SLABS AND FOUNDATION WALLS THAT ARE BELOW THE GROUND SURFACE, NON-SHRINK MORTAR, GROUTS, EXPANDING FOAM, OR SIMILAR MATERIALS DESIGNED FOR SUCH APPLICATION SHALL BE USED.

I. MONITORS AND LABELING

1. ALL ACTIVE SOIL DEPRESSURIZATION AND BLOCK WALL DEPRESSURIZATION GAS MITIGATION SYSTEMS SHALL INCLUDE A MECHANISM TO MONITOR SYSTEM PERFORMANCE AND WARN OF SYSTEM FAILURE. THE MECHANISM SHALL BE SIMPLE TO READ OR INTERPRET AND BE LOCATED WHERE IT IS EASILY SEEN OR HEARD BY BUILDING OCCUPANTS AND PROTECTED FROM DAMAGE OR DESTRUCTION.
2. ELECTRICAL GAS MITIGATION SYSTEM MONITORS (WHETHER VISUAL OR AUDIBLE) SHALL BE INSTALLED ON NON-SWITCHED CIRCUITS AND BE DESIGNED TO RESET AUTOMATICALLY WHEN POWER IS RESTORED AFTER SERVICE OR POWER SUPPLY FAILURE. BATTERY OPERATED MONITORING DEVICES SHALL NOT BE USED UNLESS THEY ARE EQUIPPED WITH A LOW POWER WARNING FEATURE.
3. MECHANICAL GAS MITIGATION SYSTEM MONITORS, SUCH AS MANOMETER TYPE PRESSURE GAUGES, SHALL BE CLEARLY MARKED TO INDICATE THE RANGE OR ZONE OF PRESSURE READINGS THAT EXISTED WHEN THE SYSTEM WAS INITIALLY ACTIVATED.
4. A SYSTEM DESCRIPTION LABEL SHALL BE PLACED ON THE MITIGATION SYSTEM, THE ELECTRIC SERVICE ENTRANCE PANEL, OR OTHER PROMINENT LOCATION. THIS LABEL SHALL BE LEGIBLE FROM A DISTANCE OF AT LEAST THREE FEET AND INCLUDE THE FOLLOWING INFORMATION: "GAS REDUCTION SYSTEM," THE INSTALLER'S NAME, PHONE NUMBER, AND RCP IDENTIFICATION NUMBER, THE DATE OF INSTALLATION, AND AN ADVISORY THAT THE BUILDING SHOULD BE TESTED FOR GAS AT LEAST EVERY TWO YEARS OR AS REQUIRED OR RECOMMENDED BY STATE OR LOCAL AGENCIES. IN ADDITION, ALL EXPOSED AND VISIBLE INTERIOR GAS MITIGATION SYSTEM VENT PIPE SECTIONS SHALL BE IDENTIFIED WITH AT LEAST ONE LABEL ON EACH FLOOR LEVEL. THE LABEL SHALL READ, "GAS REDUCTION SYSTEM."
5. THE CIRCUIT BREAKERS CONTROLLING THE CIRCUITS ON WHICH THE GAS VENT FAN AND SYSTEM FAILURE WARNING DEVICES OPERATE SHALL BE LABELED "GAS SYSTEM."

J. POST-MITIGATION TESTING

1. AFTER INSTALLATION OF AN ACTIVE GAS CONTROL SYSTEM (E.G., SSD), THE CONTRACTOR SHALL RE-EXAMINE AND VERIFY THE INTEGRITY OF THE FAN MOUNTING SEALS AND ALL JOINTS IN THE INTERIOR VENT PIPING.
2. AFTER INSTALLATION OF ANY ACTIVE GAS MITIGATION SYSTEM, THE CONTRACTOR SHALL PERFORM TESTS. SEE SPECIFICATION SECTION 072727 'SUBSLAB DEPRESSURIZATION SYSTEM' FOR ADDITIONAL INFORMATION.
3. IMMEDIATELY AFTER INSTALLATION AND ACTIVATION OF ANY ACTIVE (FAN-POWERED) SUB-SLAB DEPRESSURIZATION OR BLOCK WALL DEPRESSURIZATION SYSTEM IN BUILDINGS CONTAINING NATURAL DRAFT COMBUSTION APPLIANCES, THE BUILDING SHALL BE TESTED FOR BACKDRAFTING OF THOSE APPLIANCES. ANY BACKDRAFTING CONDITION THAT RESULTS FROM INSTALLATION OF THE GAS MITIGATION SYSTEM SHALL BE CORRECTED BEFORE THE SYSTEM IS PLACED IN OPERATION.
4. UPON COMPLETION OF GAS MITIGATION WORK, A TEST OF MITIGATION SYSTEM EFFECTIVENESS SHALL BE CONDUCTED. SEE SPECIFICATION SECTION 072726 'GAS VAPOR BARRIER (FLUID APPLIED) FOR ADDITIONAL INFORMATION.
5. TO ENSURE CONTINUED EFFECTIVENESS OF THE GAS MITIGATION SYSTEM(S) INSTALLED, THE CONTRACTOR SHALL ADVISE THE CLIENT TO RETEST THE BUILDING AT LEAST EVERY TWO YEARS OR AS REQUIRED OR RECOMMENDED BY STATE OR LOCAL AUTHORITY. RETESTING IS ALSO RECOMMENDED IF THE BUILDING UNDERGOES SIGNIFICANT ALTERATION.

K. CONTRACTS AND DOCUMENTATION

1. EPA RECOMMENDS THAT CONTRACTORS PROVIDE THE FOLLOWING WRITTEN INFORMATION TO CLIENTS PRIOR TO INITIATION OF WORK:
   a. THE CONTRACTOR'S EPA RPP MITIGATION SERVICE PROVIDER IDENTIFICATION NUMBER.
   b. A STATEMENT THAT DESCRIBES THE PLANNED SCOPE OF THE WORK AND THAT INCLUDES AN ESTIMATE OF THE TIME NEEDED TO COMPLETE THE WORK.
   c. A STATEMENT DESCRIBING ANY KNOWN HAZARDS ASSOCIATED WITH CHEMICALS USED IN OR AS PART OF THE INSTALLATION.
   d. A STATEMENT INDICATING COMPLIANCE WITH AND IMPLEMENTATION OF ALL EPA STANDARDS AND THOSE OF OTHER AGENCIES HAVING JURISDICTION (E.G., CODE REQUIREMENTS).
   e. A STATEMENT DESCRIBING ANY SYSTEM MAINTENANCE THAT THE BUILDING OWNER WOULD BE REQUIRED TO PERFORM.
   f. AN ESTIMATE OF THE INSTALLATION COST AND ANNUAL OPERATING COSTS OF THE SYSTEM.
   g. THE CONDITIONS OF ANY WARRANTY OR GUARANTEE.
2. EPA RECOMMENDS THAT RPP LISTED MITIGATION CONTRACTORS KEEP RECORDS OF ALL GAS MITIGATION WORK PERFORMED AND MAINTAIN THOSE RECORDS FOR 3 YEARS OR FOR THE PERIOD OF ANY WARRANTY OR GUARANTEE, WHICHEVER IS LONGER. THESE RECORDS SHOULD INCLUDE:
3. THE BUILDING INVESTIGATION SUMMARY AND FLOOR PLAN SKETCH.
4. PRE- AND POST-MITIGATION GAS TEST DATA.
5. PRE- AND POST-MITIGATION DIAGNOSTIC TEST DATA.
6. COPIES OF CONTRACTS AND WARRANTIES.
7. A NARRATIVE OR PICTORIAL DESCRIPTION OF MITIGATION SYSTEM(S) INSTALLED.
8. APPENDIX A CONTAINS A SUGGESTED STANDARD FORMAT FOR COMPILING MITIGATION PROJECT RECORDS.
9. OTHER RECORDS OR BOOKKEEPING REQUIRED BY LOCAL, STATE, OR FEDERAL STATUTES AND REGULATIONS SHALL BE MAINTAINED FOR THE PERIOD(S) PRESCRIBED BY THOSE REQUIREMENTS.
10. EPA RECOMMENDS THAT HEALTH AND SAFETY RECORDS, INCLUDING WORKER GAS EXPOSURE LOGS, BE MAINTAINED FOR A MINIMUM OF 20 YEARS.
11. UPON COMPLETION OF THE MITIGATION PROJECT, CONTRACTORS SHALL PROVIDE CLIENTS WITH AN INFORMATION PACKAGE THAT INCLUDES:
12. ANY BUILDING PERMITS REQUIRED BY LOCAL CODES.
13. COPIES OF THE BUILDING INVESTIGATION SUMMARY AND FLOOR PLAN SKETCH.
14. PRE-AND POST-MITIGATION GAS TEST DATA.
15. COPIES OF CONTRACTS AND WARRANTIES.
16. A DESCRIPTION OF THE MITIGATION SYSTEM INSTALLED AND ITS BASIC OPERATING PRINCIPLES.
17. A DESCRIPTION OF ANY DEVIATIONS FROM THE GMS OR STATE REQUIREMENTS.
18. A DESCRIPTION OF THE PROPER OPERATING PROCEDURES OF ANY MECHANICAL OR ELECTRICAL SYSTEMS INSTALLED, INCLUDING MANUFACTURER'S OPERATION AND MAINTENANCE INSTRUCTIONS AND WARRANTIES.
19. A LIST OF APPROPRIATE ACTIONS FOR CLIENTS TO TAKE IF THE SYSTEM FAILURE WARNING DEVICE INDICATES SYSTEM DEGRADATION OR FAILURE.
20. THE NAME, TELEPHONE NUMBER, AND EPA RPP MITIGATION SERVICE PROVIDER IDENTIFICATION NUMBER OF THE CONTRACTOR, AND THE PHONE NUMBER OF THE STATE GAS OFFICE.

THE ACCEPTANCE TESTING SHALL BE AS FOLLOWS:

1. THE EXPLOSIVE GAS MONITORING SYSTEM CONTRACTOR SHALL COMPLETE ACCEPTANCE TESTING TO DEMONSTRATE THAT THE ENTIRE SYSTEMS FUNCTIONS AS DESIGNED. TESTING SHALL INCLUDE:
   A. TESTING EACH FUNCTION OF THE INTEGRATED CONTROLS AT THE CONTROLLER.
   B. CONFIRMATION OF THE CALIBRATIONS OF ALL SENSORS.
   C. TESTING OF ALL COMMUNICATIONS BETWEEN SENSORS AND CONTROLLERS AND BETWEEN THE CONTROLLER AND ALARMS AND AUTO DIALER.
   D. TESTING OF ALL ALARM FUNCTIONS OF ALL SENSORS (ABILITY TO DETECT EXPLOSIVE GAS CONCENTRATIONS) AND OTHER TROUBLE ALARM/DIAGNOSTIC CONDITIONS.
   E. THE CONTRACTOR SHALL CORRECT ALL DEFICIENCIES AND REPEAT THE TESTING FOR ANY ITEMS THAT FAIL INITIAL TESTING. OWNER SHALL NOT ACCEPT THE SYSTEM UNTIL ALL COMPONENTS AND THE ENTIRE COORDINATED SYSTEM HAVE BEEN DEMONSTRATED TO BE OPERATING AS DESIGNED.

FAN SCHEDULE

SF X

PLAN NO	MANUFACTURER MODEL	LOCATION	AREA SERVED	FAN TYPE	FAN PERFORMANCE			ELECTRICAL DATA				dBA	WEIGHT LBS	REMARKS
					CFM	TOTAL SP	FAN RPM	HP/ WATTS	RPM	VOLTS/Ø	DRIVE			
SF-1	FAN AM CAV-100	MEZZ	AS SHOWN	CENT	175	2.38	3450	1/2	3450	115/1	DIRECT	65	48	SEE NOTES
SF-2	FAN AM CAV-100	MEZZ	AS SHOWN	CENT	130	1.40	3450	1/2	3450	115/1	DIRECT	55	45	SEE NOTES

NOTES:
1. PROVIDE ELECTRICAL DISCONNECT, VIBRATION ISOLATION WITH MOUNTING BRACKETS.
2. PROVIDE CONTROLS FROM ATC CONTRACTOR.

FOR CONSTRUCTION

NEW YORK ALTERATION WARNING

IT IS A VIOLATION OF NEW YORK PROFESSIONAL ENGINEER & LAND SURVEY LAWS SECTION 7209.2 FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM IN AN

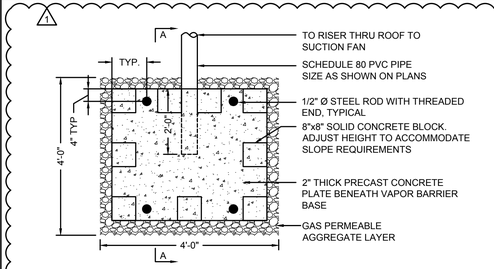

PLAN VIEW - TYPICAL SUB-SLAB DEPRESSURIZATION PIT — 1A
NOT TO SCALE

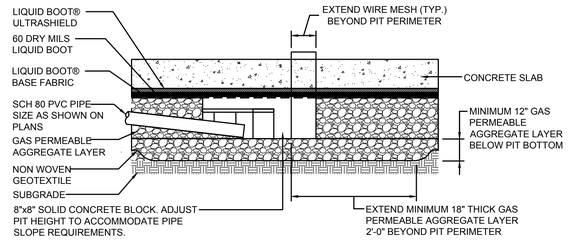

TYPICAL SUB-SLAB DEPRESSURIZATION PIT - SECTION A-A — 1B
NOT TO SCALE

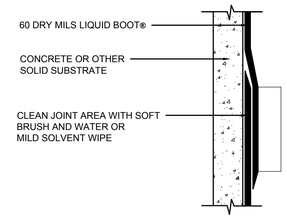

GAS VAPOR BARRIER MEMBRANE LAP JOINTS ON SOLID SUBSTRATE — 2A
NOT TO SCALE

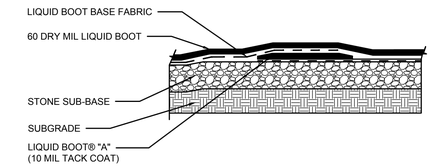

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NOT TO SCALE

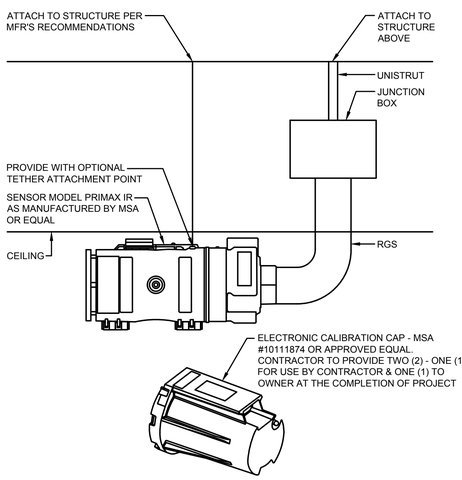

GAS SENSOR DETAIL — 3
NOT TO SCALE

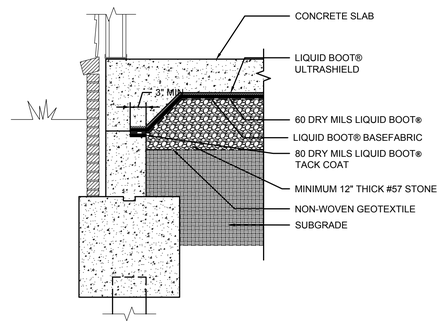

GAS VAPOR BARRIER AT EXTERIOR WALL DETAIL — 4
NOT TO SCALE

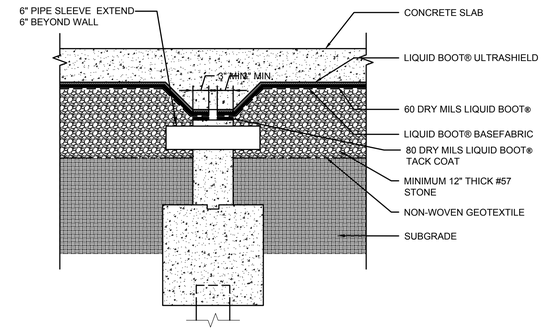

GAS VAPOR BARRIER AT INTERIOR WALL DETAIL — 5
NOT TO SCALE

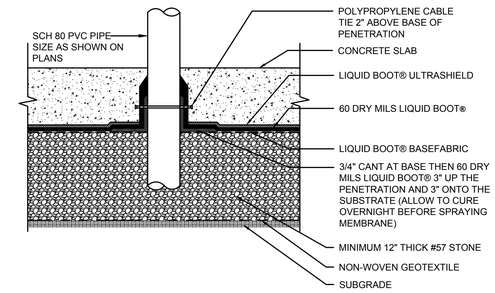

TYPICAL GAS VAPOR BARRIER PENETRATION DETAIL WITHOUT SLEEVE — 6
NOT TO SCALE

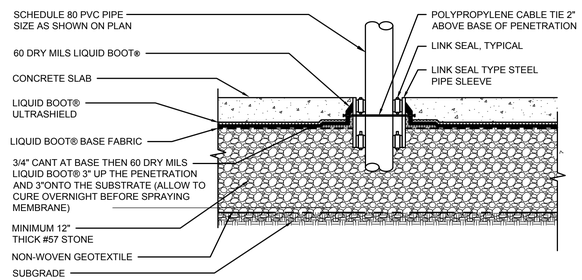

TYPICAL GAS VAPOR BARRIER PENETRATION DETAIL — 7
NOT TO SCALE

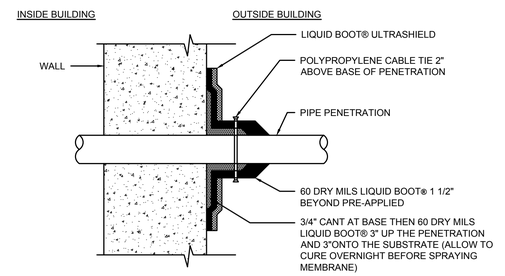

TYPICAL GAS VAPOR BARRIER PENETRATION THRU WALL BELOW GRADE DETAIL WITHOUT SLEEVE — 8A
NOT TO SCALE

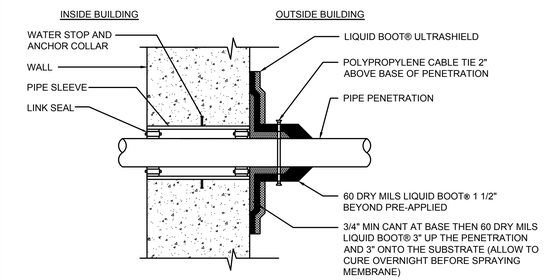

TYPICAL GAS VAPOR BARRIER PENETRATION THRU WALL BELOW GRADE DETAIL WITH SLEEVE — 8B
NOT TO SCALE

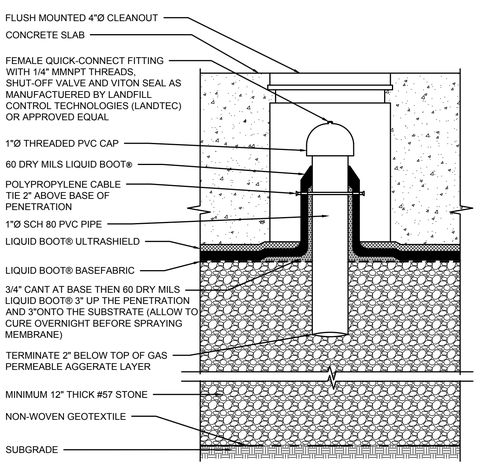

SUB-SLAB MONITORING POINT DETAIL — 9
NOT TO SCALE

NOTES:
1. CONTRACTOR TO SUPPLY SHOP DRAWINGS OF PROPOSED CONSTRUCTION DETAILS FOR APPROVAL. ALL PENETRATIONS SHALL BE CLEANED PER SPECIFICATIONS BEFORE LIQUID BOOT IS APPLIED.
2. CONTRACTOR SHALL SUBMIT TO SCALE SKETCHES SHOWING PROPOSED PIPE JOINT LOCATIONS. ENGINEERS APPROVAL OF PIPE JOINT LOCATIONS SHALL BE REQUIRED PRIOR TO CONSTRUCTION.
3. FURNISH ESCUTCHEONS AS SPECIFIED.

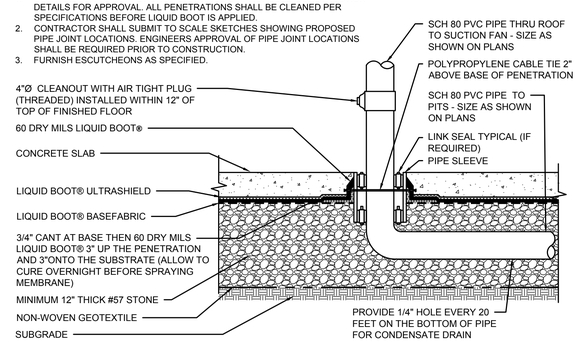

TYPICAL SSDS RISER DETAIL AT FLOOR SLAB — 10
NOT TO SCALE

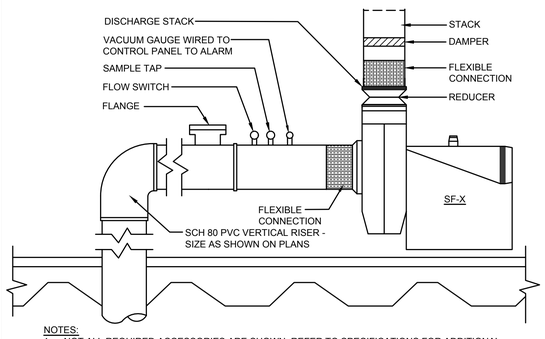

NOTES:
1. NOT ALL REQUIRED ACCESSORIES ARE SHOWN. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. ELECTRICAL WIRING & EQUIPMENT NOT SHOW. REFER TO ELECTRICAL DWGS AND SPECIFICATIONS FOR REQUIREMENTS.
3. PIPE AND EQUIPMENT ARRANGEMENT SHOW FOR SCHEMATIC PURPOSES ONLY. SUBMIT TO SCALE DRAWINGS SHOWING PROPOSED ARRANGEMENT. CONTRACTOR IS REQUIRED TO OBTAIN ENGINEER REVIEW OF ARRANGEMENT.
4. THE SUCTION FAN EXHAUST MUST BE A MINIMUM OF 10 FEET FROM ANY BUILDING INTAKE OR OPERABLE WINDOW.

SUCTION FAN DETAIL — 11
NOT TO SCALE

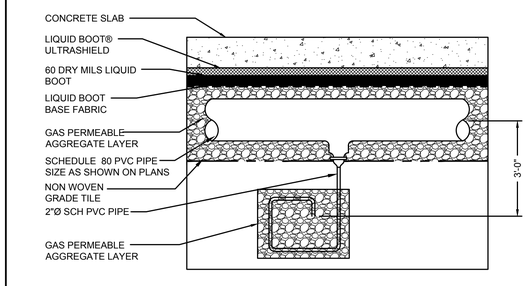

TYPICAL LOW POINT CONDENSATE DRAIN DETAIL — 12
NOT TO SCALE

FOR CONSTRUCTION

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DRAWING TITLE: VAPOR REMEDIATION DETAILS

PROJECT #: 14-534
DRAWN BY:
CHECKED BY: FRM
DRAWING NO: FO-504.00

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STATE OF NEW YORK
DONALD F. BOWMAN
NO. 095674
LICENSED PROFESSIONAL ENGINEER

Donald Bowman
6/7/2018

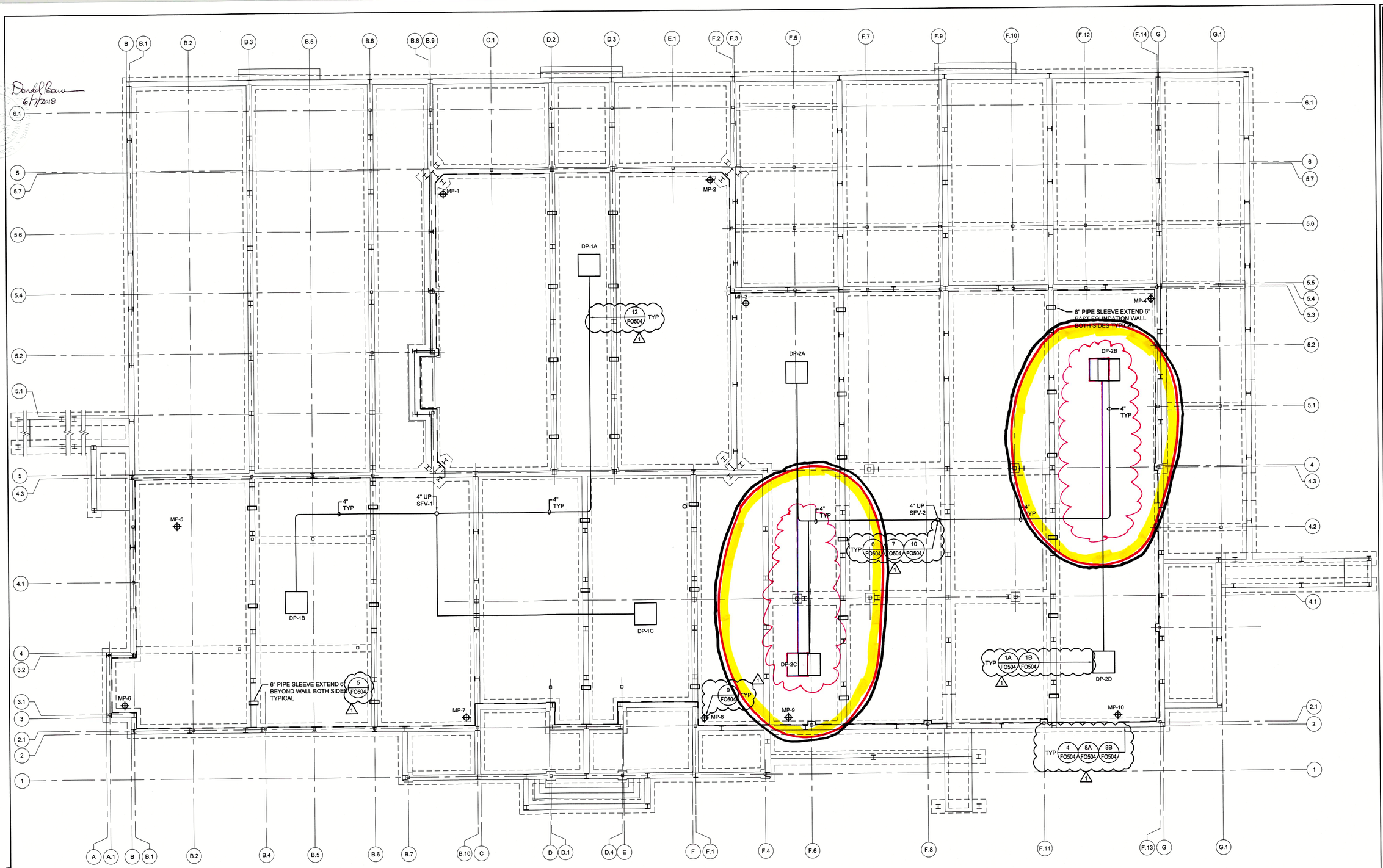

UNDERSLAB PLAN

SCALE: 1/8" = 1'-0"

NOTES :

1. DRAWINGS NOT TO BE USED FOR STRUCTURAL, ARCHITECTURAL OR OTHER REFERENCE EXCEPT FOR SUB-SLAB DEPRESSURIZATION SYSTEM.
2. THE EXTENTS OF BUILDING CONSTRUCTION BENEATH THE FLOOR SLABS SHALL BE LINED WITH GAS VAPOR BARRIER, AS PART OF BUILDING CONSTRUCTION. THE GAS VAPOR BARRIER SHALL ALSO BE APPLIED VERTICALLY TO BELOW GRADE WALLS AND WALLS OF PITS AND SUMPS AS SHOWN AND SPECIFIED.
3. SLOPE HORIZONTAL PIPE UNIFORMLY A MINIMUM OF 1% TOWARD SUB-SLAB DEPRESSION SYSTEM PITS OR TO CONDENSATE DRAINS WHEN PIPING CANNOT BE SLOPED TO PIT.
4. SECURE VERTICAL RISER TO WALL IN ACCORDANCE WITH ARCHITECTURAL AND PLUMBING REQUIREMENTS.
5. ELECTRICAL WIRING AND EQUIPMENT NOT SHOWN. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR REFERENCES.
6. SEAL ALL JOINTS IN SLAB ON GRADE, INCLUDING BUT NOT LIMITED TO, CONTROL JOINTS, EXPANSION JOINTS, CRACKS, WALL JOINTS, PENETRATIONS ETC. WITH NON-CRACKING CAULK. POLYURETHANE TYPE PREFERRED.
7. COORDINATE GAS VENTING SYSTEM WITH ALL TRADES, INCLUDE VENTING SYSTEM PIPING ON COORDINATION DRAWINGS.
8. ALL GAS VENTS SHALL BE CONTINUOUS FROM UNDERSLAB STONE BASE TO 36" ABOVE ROOF LINE OR PARAPET (WHICHEVER IS HIGHER). ALL VENTS SHALL BE 10'-0" MIN FROM LOT LINES, OUTSIDE AIR INTAKES, WINDOWS, ETC.
9. DRAWING ILLUSTRATES WALLS AND ALL SLAB ON GRADE FLOOR AREAS. COORDINATE THIS WORK WITH ARCHITECTURAL, MECHANICAL, AND STRUCTURAL PLANS.
10. ALL GAS VENT PIPING SHALL BE PVC PIPING. WHERE PIPING IS LOCATED IN RETURN AIR PLENUMS CHANGE MATERIAL TO NO-HUB CAST IRON PIPE.
11. LABEL GAS PIPING AT INTERVALS OF NOT MORE THAN 25 FT IN CONCEALED LOCATIONS AND NOT MORE THAN 50 FT ON EXPOSED AND NOT LESS THAN ONCE IN ANY ROOM OR SPACE.
12. GAS VAPOR BARRIER TO BE INSTALLED IMMEDIATELY BELOW FLOOR SLAB AS INDICATED ON THE STRUCTURAL DRAWINGS. PROVIDE 12" MINIMUM CLEAN #57 STONE SUB-BASE FOR GAS MITIGATION SYSTEM.
13. SLOPE HORIZONTAL PIPE A MINIMUM OF 1% UNIFORMLY TOWARD SUCTION PITS.
14. REFER TO SPECIFICATION FOR ADDITIONAL SUB-SLAB DEPRESSURIZATION SYSTEM AND ACCESSORIES REQUIREMENTS.

LEGEND

- EXTENT OF GAS PERMEABLE AGGREGATE LAYER BENEATH FLOOR SLAB
- 4" SCHEDULE 80 PVC PIPE
- SFV-1 — SUCTION FAN VERTICAL 4" RISER AND IDENTIFICATION NUMBER. EXTEND THRU ATTIC TO SUCTION FAN
- MP-1 — SUB-SLAB MONITORING POINT AND IDENTIFICATION NUMBER
- DP-1A — SUB-SLAB DEPRESURAIZATION PIT AND IDENTIFICATION NUMBER

FOR CONSTRUCTION

PROVIDE LIQUID BOOT GAS VAPOR BARRIER SYSTEM UNDER SLAB AS MANUFACTURED BY CETCO CONSISTING OF ULTRASHIELD G-1000, 60 DRY MILS LIQUID BOOT AND LIQUID BOOT BASE FABRIC. SYSTEM SHALL INSTALLED BY AUTHORIZED INSTALLER. REFER TO DETAILS FOR ADDITIONAL INFORMATION. REFER TO CONTRACT DOCUMENTS FOR LOCATIONS OF PENETRATIONS THROUGH THE SLAB.

OFFSET VENT ABOVE CEILING AT ROOF AND EXTEND THROUGH ROOF APPROXIMATELY 3' FROM PARAPET WALLS AND TERMINATE 24" ABOVE FINISHED ROOF.

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DRAWING TITLE: VAPOR REMEDIATION UNDERSLAB PLAN

PROJECT #: 14-534
DRAWN BY:
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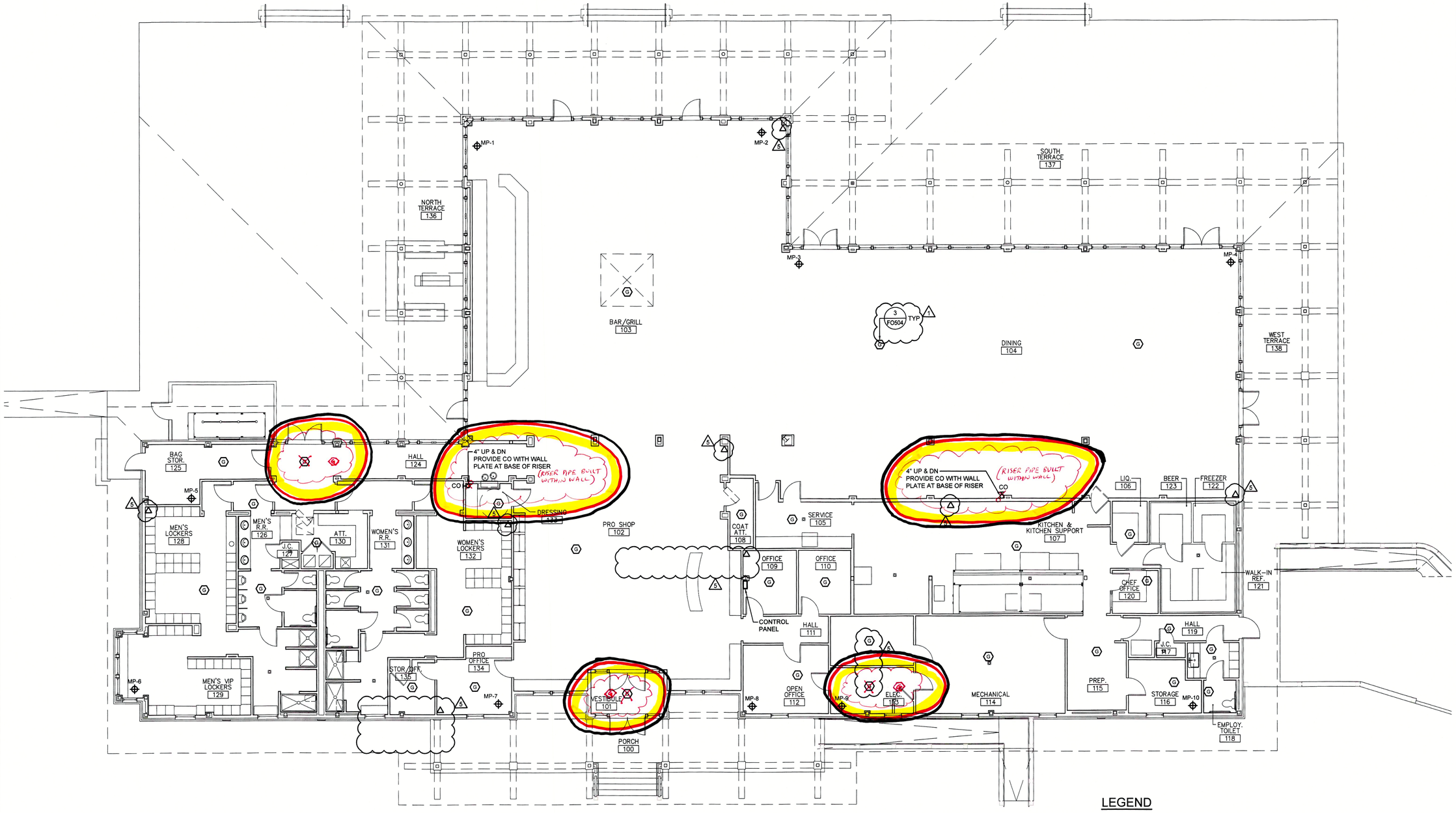

FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

LEGEND

SFV-1	SUCTION FAN VERTICAL 4" RISER AND IDENTIFICATION NUMBER. EXTEND THRU ATTIC TO SUCTION FAN
MP-1	SUB-SLAB MONITORING POINT AND IDENTIFICATION NUMBER
G	GAS SENSOR
	METHANE GAS SENSOR CONTROL PANEL
	METHANE GAS LIGHT TOWER ALARM - HANG FROM CEILING

Donald Bowman 6/7/2018

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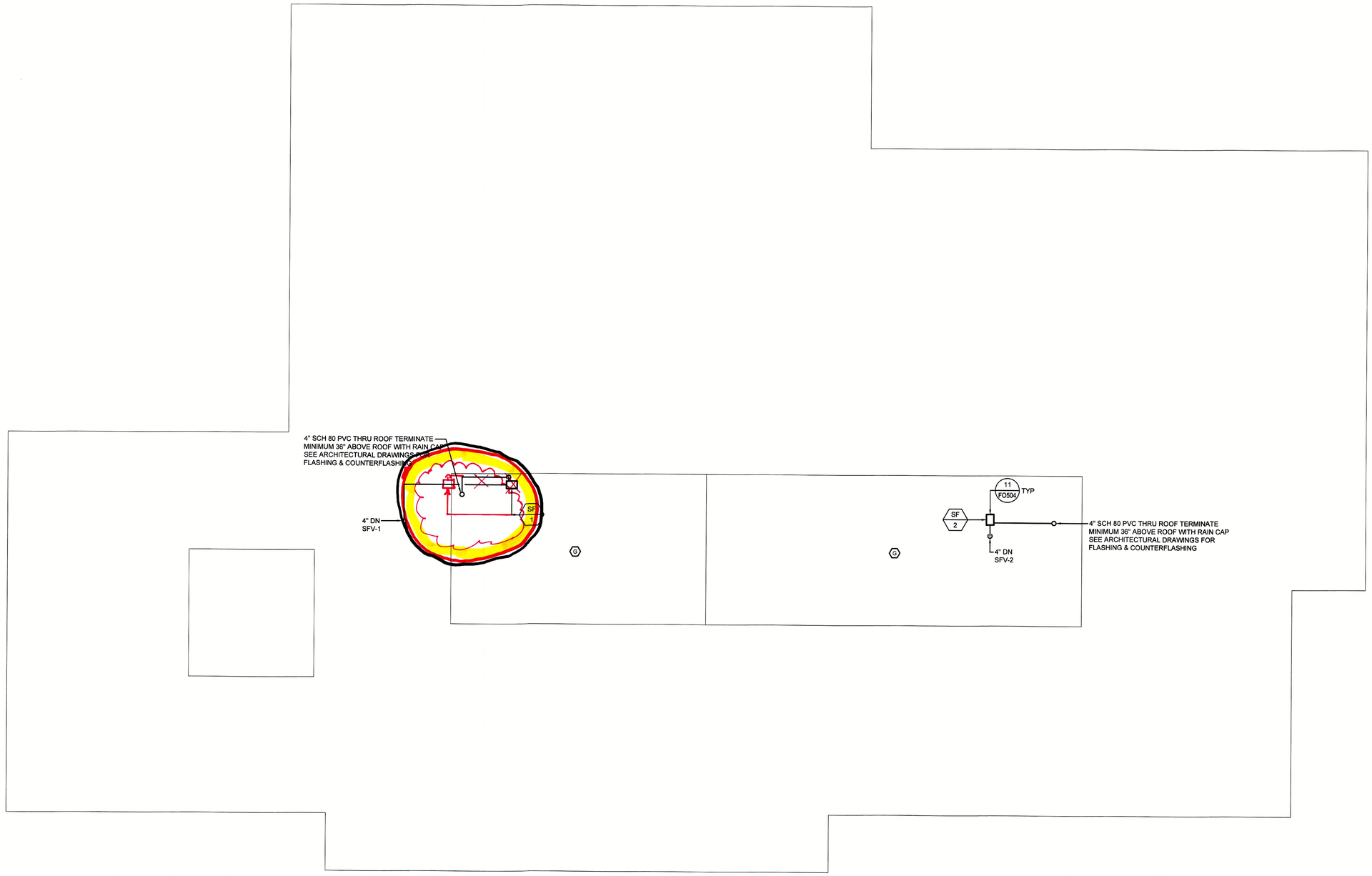

ATTIC/MEZZANINE PLAN

SCALE: 1/8" = 1'-0"

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6/7/2018

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DRAWN BY:
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DRAWING NO:
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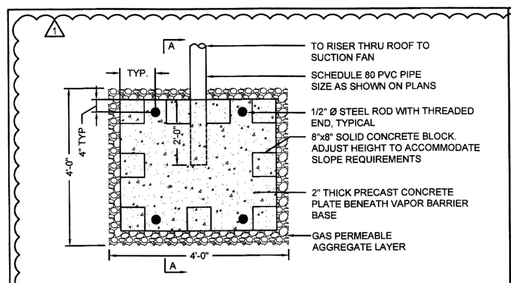

PLAN VIEW - TYPICAL SUB-SLAB DEPRESSURIZATION PIT 1A
NOT TO SCALE

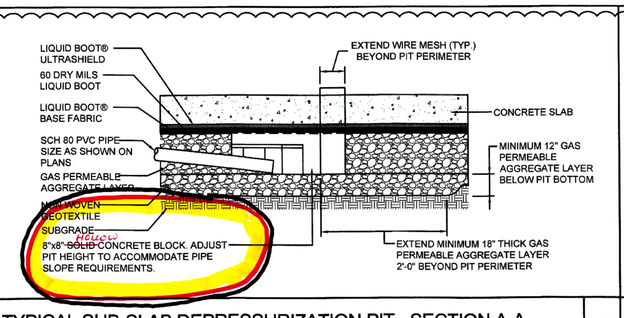

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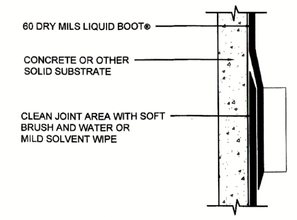

GAS VAPOR BARRIER MEMBRANE LAP JOINTS ON SOLID SUBSTRATE 2A
NOT TO SCALE

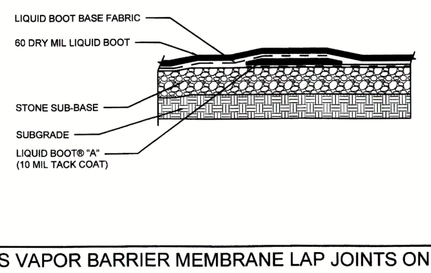

GAS VAPOR BARRIER MEMBRANE LAP JOINTS ON SOLID SUBSTRATE 2B
NOT TO SCALE

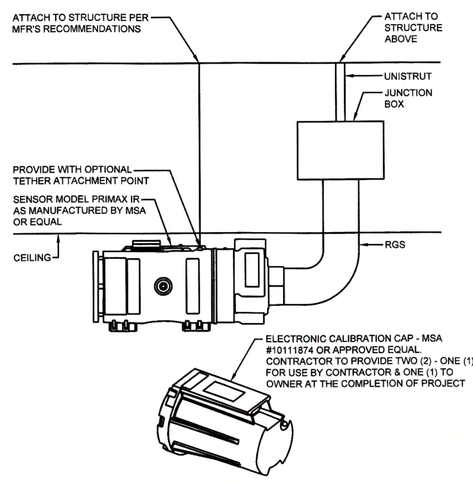

GAS SENSOR DETAIL 3
NOT TO SCALE

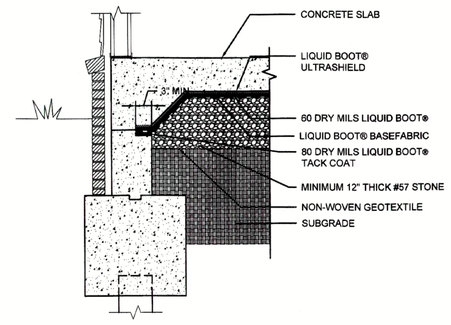

GAS VAPOR BARRIER AT EXTERIOR WALL DETAIL 4
NOT TO SCALE

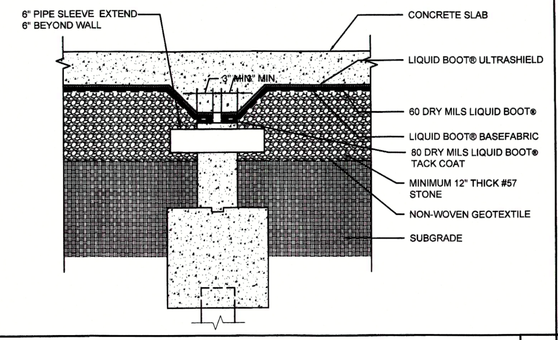

GAS VAPOR BARRIER AT INTERIOR WALL DETAIL 5
NOT TO SCALE

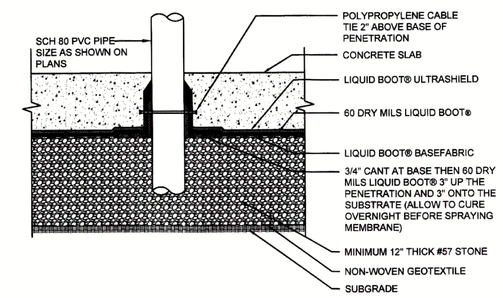

TYPICAL GAS VAPOR BARRIER PENETRATION DETAIL WITHOUT SLEEVE 6
NOT TO SCALE

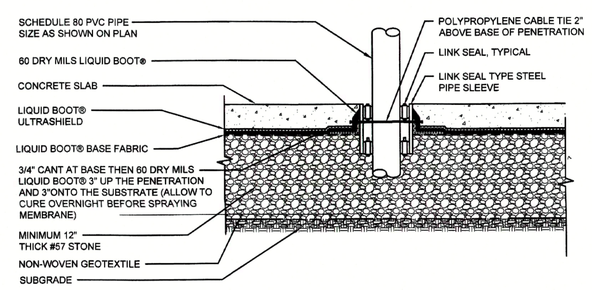

TYPICAL GAS VAPOR BARRIER PENETRATION DETAIL 7
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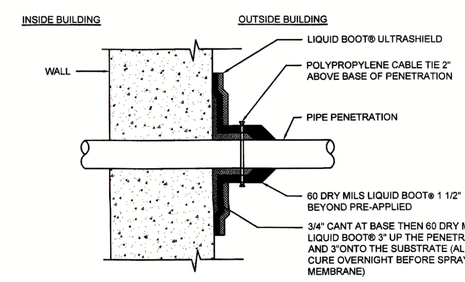

TYPICAL GAS VAPOR BARRIER PENETRATION THRU WALL BELOW GRADE DETAIL WITHOUT SLEEVE 8A
NOT TO SCALE

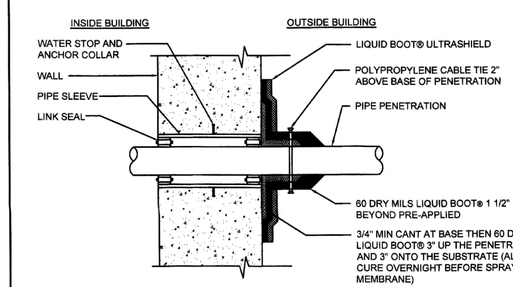

TYPICAL GAS VAPOR BARRIER PENETRATION THRU WALL BELOW GRADE DETAIL WITH SLEEVE 8B
NOT TO SCALE

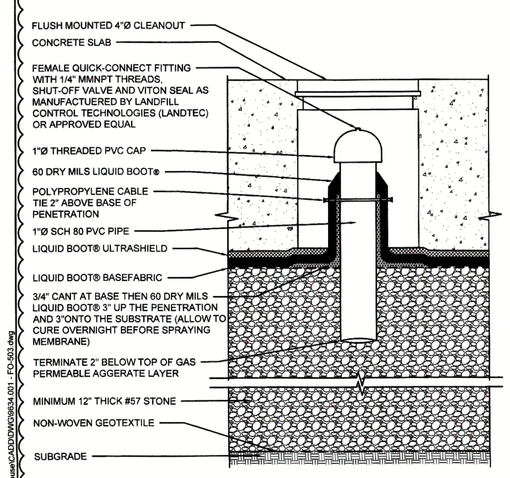

SUB-SLAB MONITORING POINT DETAIL 9
NOT TO SCALE

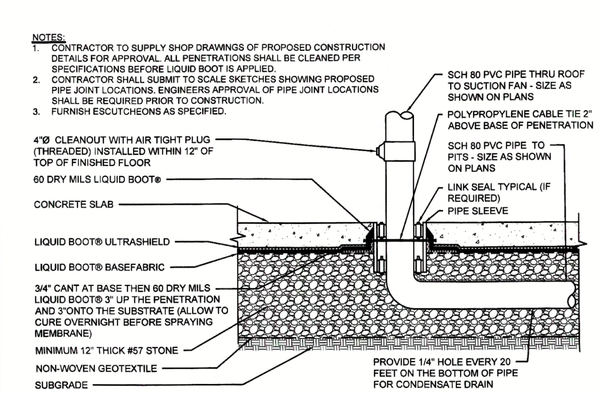

TYPICAL SSDS RISER DETAIL AT FLOOR SLAB 10
NOT TO SCALE

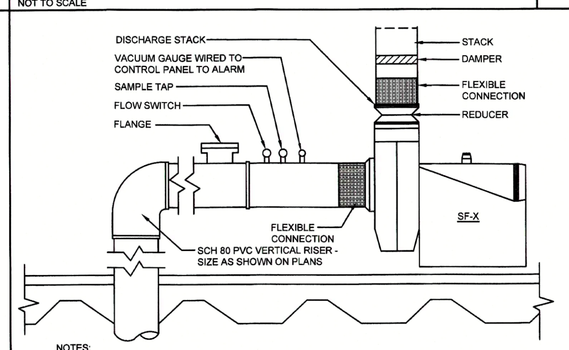

SUCTION FAN DETAIL 11
NOT TO SCALE

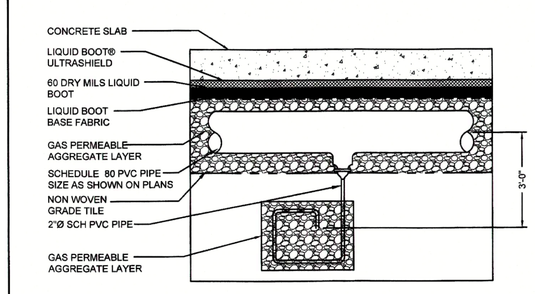

TYPICAL LOW POINT CONDENSATE DRAIN DETAIL 12
NOT TO SCALE

FOR CONSTRUCTION

NEW YORK ALTERATION WARNING

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FPA FRENCH & PARRELLO
Corporate Office: 1600 Route 34, Suite 101, Wall, NJ 07719, 732 312-9800
Regional Offices: Hackettstown, NJ; New York, NY

JONATHAN V. CRAWFORD, PE
PROFESSIONAL ENGINEER, NY LIC. No. 91249

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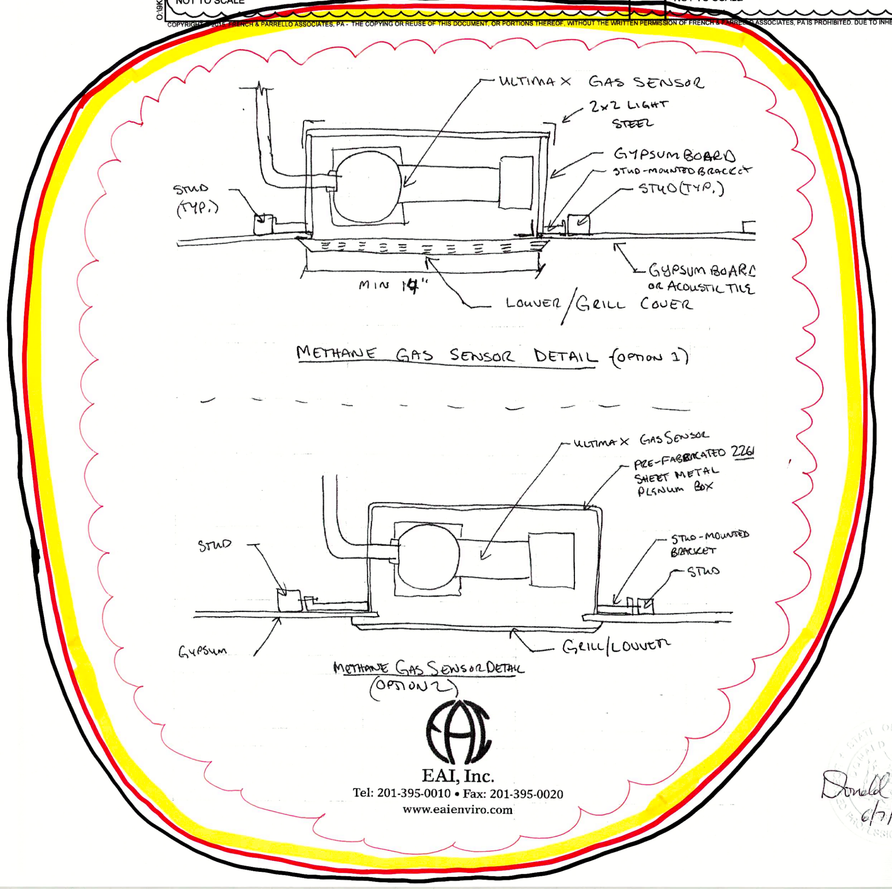

Donald Bowen 6/7/2018

STATE OF NEW YORK · DONALD F. BOWEN · No. 090824 · LICENSED PROFESSIONAL ENGINEER

HART | HOWERTON
PLANNERS · ARCHITECTS · LANDSCAPE ARCHITECTS

HARTHOWERTON, PLANNING, ARCHITECTURE AND LANDSCAPE ARCHITECTURE, PC
110 FIFTH AVENUE, NEW YORK, NY 10016
Tel: 212 633 5631 Fax: 212 481 1768
E-mail: NY@harthowerton.com

TRUMP
THE TRUMP ORGANIZATION

TRUMP GOLF LINKS FERRY POINT PARK

500 Hutchinson River Parkway
Bronx, New York 10465

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Planners, Architects, Landscape Architects PC
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SCALE:
NOTE: IF THIS DRAWING IS NOT 24"X36", IT HAS BEEN REVISED FROM ITS ORIGINAL SIZE. SCALE IS NO LONGER APPLICABLE.

DATE	ISSUE
04-16-15	100% DD
06-02-15	30% CD
07-01-15	70% CD
07-27-15	90% CD
09-15-17	FOR CONSTRUCTION

REVISIONS

NO	DATE	ISSUE
	02-17-17	REMOVE BSMT
	03-30-17	DHC REVIEW
3	04-07-17	RE-BID/ REMOVE BSMT
4	05-05-17	COMMENTS

DRAWING TITLE: VAPOR REMEDIATION DETAILS

PROJECT #: 14-534
DRAWN BY:
CHECKED BY: FRM

DRAWING NO: FO-504.00

APPENDIX F

Letter from NYSDEC to NYCDPR re: "Ferry Point Park Golf Course Permanent Clubhouse Sub-Slab Depressurization System (SSDS) Construction Certification Report" dated July 2, 2018

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4996 I F: (718) 482-6391
www.dec.ny.gov

July 2, 2018

Kay Zias
Director of Environmental Remediation
Olmstead Center
Flushing Meadows
Corona Park
Flushing, NY 11368

Re: Ferry Point Park Golf Course
Permanent Clubhouse Sub-Slab Depressurization System (SSDS)
Construction Certification Report

Dear Ms. Zias,

New York State Department of Environmental Conservation (Department) staff have reviewed the Ferry Point Park Permanent Clubhouse Sub-Slab Depressurization System (SSDS) Construction Certification Report Sub-Slab Depressurization System plan and included drawings dated June 8, 2018 and found the report to be incomplete. Please resubmit the report incorporating the following comments:

1) The Construction Certification Report (CCR) needs to be one single document rather a compilation of various documents
2) The text needs significant expansion to describe the original problem that required addressing, proposed design including reasons for that design, the construction, including any and all problems and deviations, and timeframe. Also, all tests showing the proper operation of the system should be included in the report; it should not be included as printed e-mails. As discussed during the June 6, 2018 site visit, the level of detail necessary is such that the general public will understand the entire process.
3) During our discussion on June 6, 2018, it was request that this CRR include stamped and signed As-Built Drawings and Red-Line Drawings. They were not included. Please correct.

If you have any questions you may contact me at 718-482-4996.

Sincerely,

Kenneth B. Brezner, P.E.
Regional Material Management Engineer

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

ec: J. O'Connell/W. Frank, R2 DMM
FPP_SSDS_CCR_Comments.2018-07-02.Letter.docx

APPENDIX G

Maser Consulting P.A. Letter to NYSDEC re: "Ferry Point Park Golf Course Permanent Clubhouse Sub-Slab Depressurization System (SSDS) Construction Certification Report" dated July 11, 2018

MASER CONSULTING P.A.

Engineers
Planners
Surveyors
Landscape Architects
Environmental Scientists

Corporate Headquarters
331 Newman Springs Road, Suite 203
Red Bank, NJ 07701
T: 732.383.1950
F: 732.383.1984
www.maserconsulting.com

July 11, 2018

VIA E-MAIL & U.S. MAIL

Kenneth B. Brezner, P.E.
Regional Material Management Engineer
New York State Department of Environmental Conservation (NYSDEC)
Division of Materials Management, Region 2
47-40 21st Street
Long Island City, NY 11101

Re: Ferry Point Park Golf Course
Permanent Clubhouse Sub-Slab Depressurization System (SSDS)
Construction Certification
MC Project No. 17002426A

Dear Mr. Brezner:

Maser Consulting P.A. (Maser Consulting) has reviewed your July 2, 2018 letter (copy enclosed) to the New York City Department of Parks and Recreation ("NYC Parks") regarding our June 8, 2018 SSDS Construction Certification submittal, and provides the following clarifications based on our site meeting on June 6, 2018 attended by NYSDEC, NYC Parks, Woodard & Curran, The Trump Organization, EAI and Maser Consulting:

1) Our June 8, 2018 submittal was not the Construction Certification Report, instead it was the minimum information needed for NYSDEC's consideration to issue a temporary Certificate of Occupancy for June 11, 2018; this information (Construction Certification Statement with deviations, site summary, SSDS drawings issued for construction, SSDS drawings showing deviations from design, and daily field observation reports) was specifically detailed by you during our June 6, 2018 site meeting
2) The objective of the June 8, 2018 submittal was to demonstrate that the clubhouse is built with engineering controls (i.e. Liquid Boot® and SSDS) that, when functioning properly, will adequately protect occupants
3) The June 8, 2018 submittal did satisfy NYSDEC's requirements, as a temporary Certificate of Occupancy was issued for the June 11, 2018 clubhouse opening
4) Our final Construction Certification As-Built Report will be issued within 90 days of June 11, 2018 in accordance with NYSDEC's statutory timeframe

Please contact us if you have any questions regarding this review.

Very truly yours,
MASER CONSULTING P.A.

Robert L. Zelley, P.G.
Senior Principal
Director of Environmental Services

Donald F. Bowman, P.E.
Senior Project Manager
New York License No. 095674

RLZ/DFB/dw

Enclosure

cc: Kay Zias, Director of Environmental Remediation, NYC Department of Parks & Recreation (via e-mail)
Steven Lauria, P.E., Project Manager/Principal, Woodard & Curran (via e-mail)
Joe Roediger, General Manager, Trump Golf Links Ferry Point (via e-mail)
John Gruber, Construction Manager, The Trump Organization (via e-mail)
David Keil, P.G., Maser Consulting P.A (via e-mail)

njncad\\projects\2017\17002426a\180711 rlz dfb Trump Ferry Pt Pk clubhouse SSDS.docx

ENCLOSURE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4996 I F: (718) 482-6391
www.dec.ny.gov

July 2, 2018

Kay Zias
Director of Environmental Remediation
Olmstead Center
Flushing Meadows
Corona Park
Flushing, NY 11368

Re: Ferry Point Park Golf Course
Permanent Clubhouse Sub-Slab Depressurization System (SSDS)
Construction Certification Report

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1) The Construction Certification Report (CCR) needs to be one single document rather a compilation of various documents
2) The text needs significant expansion to describe the original problem that required addressing, proposed design including reasons for that design, the construction, including any and all problems and deviations, and timeframe. Also, all tests showing the proper operation of the system should be included in the report; it should not be included as printed e-mails. As discussed during the June 6, 2018 site visit, the level of detail necessary is such that the general public will understand the entire process.
3) During our discussion on June 6, 2018, it was request that this CRR include stamped and signed As-Built Drawings and Red-Line Drawings. They were not included. Please correct.

If you have any questions you may contact me at 718-482-4996.

Sincerely,

Kenneth B. Brezner, P.E.
Regional Material Management Engineer

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

ec: J. O'Connell/W. Frank, R2 DMM
FPP_SSDS_CCR_Comments.2018-07-02.Letter.docx

APPENDIX H

NYSDEC Construction Duration Inspections performed by Maser Consulting P.A.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 7/21/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☐ ☑ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☑ ☐ Joints constructed by wrapping the two ends together for continuous support.
☐ ☑ ☐ Fabric buried 6 inches minimum.
☑ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes No NA

☐ ☐ ☑ Installed concrete blocks lengthwise so open ends face outward, not upward.
☐ ☐ ☑ Placed wire screen between No. 3 crushed stone and concrete blocks.
☐ ☐ ☑ Drainage area is 1acre or less.
☐ ☐ ☑ Excavated area is 900 cubic feet.
☐ ☐ ☑ Excavated side slopes should be 2:1.
☐ ☐ ☑ 2" x 4" frame is constructed and structurally sound.
☐ ☐ ☑ Posts 3-foot maximum spacing between posts.
☐ ☐ ☑ Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes No NA

☐ ☐ ☑ Outlet structure is constructed per the approved plan or drawing.
☐ ☐ ☑ Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes No NA

☐ ☐ ☑ Basin and outlet structure constructed per the approved plan.
☐ ☐ ☑ Basin side slopes are stabilized with seed/mulch.
☐ ☐ ☑ Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes
Cover material to approximately 1' in depth was stockpiled to a temporary location on the Clubhouse construction area and then moved onto tarp in the parking lot location. Maser Consulting observed silt fence installed around the perimeter of Clubhouse construction area and parking lot. Parking lot stockpile tarped and anchored with sandbags. Storm drain inlet protection was installed in the parking lot area. Maser Consulting and Woodard & Curran advised the Contractor to bury the silt fence approximately 6" in depth.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

General Notes:
Clean cover material to approximately 1' in depth was stockpiled to a temporary location on the Clubhouse construction area and then moved onto tarp in the parking lot location. Maser Consulting observed silt fence installed around the perimeter of Clubhouse construction area and parking lot. Parking lot stockpile tarped and anchored with sandbags. Storm drain inlet protection was installed in the parking lot area. Maser Consulting and Woodard & Curran advised the Contractor to bury the silt fence.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 7/28/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☑ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes
Silt fencing buried 6" into soil in construction site area. Tarping placed over silt fencing in parking lot since the area surrounds pavement. Maser Consulting informed foreman that the temporary shaping layer stockpile within the construction area will require a silt fence boundary and tarping with sand bags as anchors.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

General Notes
Silt fencing buried 6" into soil in construction site area. Tarping placed over silt fencing in parking lot since the area surrounds pavement. Maser Consulting informed foreman that the temporary shaping layer stockpile within the construction area will require a silt fence boundary and tarping with sand bags as anchors.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 8/04/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☑ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes
Silt fencing installed around base of the shaping layer stockpile and buried 6" into soil in construction site area. Maser Consulting informed foreman that the temporary shaping layer stockpile within the construction area will require tarping/hydroseeding. Silt fencing and tarping after storm event caused some sumping and uncovered stockpiles as shown. Silt fencing and tarping was readjusted to be tight immediately.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Haybales were not installed at up-slope of the parking lot area since water would not be exiting this area through the stockpiles. Temporary shaping stockpile installed onsite to contain remaining shaping layer soil for backfill.

General Notes
Silt fencing installed around base of the shaping layer stockpile and buried 6" into soil in construction site area. Maser Consulting informed foreman that the temporary shaping layer stockpile within the construction area will require tarping/hydroseeding. Silt fencing and tarping after storm event caused some sumping and uncovered stockpiles as shown. Silt fencing and tarping was readjusted to be tight immediately.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 8/11/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☑ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes:
Maser Consulting and Woodard & Curran informed the foreman that the shaping layer temporary stockpile could not exceed a height over the temporary fence. The stockpile was lowered so that the pile height was lower than the temporary fence. The foreman was also informed to hydroseed the temporary stockpile.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Haybales were not installed at up-slope of the parking lot area since water would not be exiting this area through the stockpiles. Temporary shaping stockpile installed onsite to contain remaining shaping layer soil for backfill.

General Notes:
Maser Consulting and Woodard & Curran informed the foreman that the shaping layer temporary stockpile could not exceed a height over the temporary fence. The stockpile was lowered so that the pile height was lower than the temporary fence. The foreman was also informed to hydroseed the temporary stockpile.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 8/22/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes:
Additional stormwater drain inlet protection drains were intalled in the parking lot. Co-mingled temporary stockpile soil was backfilled to small area locations.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Co-mingled construction area temporary stockpile to be tarped and anchored instead of hydroseeded,

General Notes:
Additional stormwater drain inlet protection drains were intalled in the parking lot. Co-mingled temporary stockpile soil was backfilled to small area locations for concrete base installation.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 8/29/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes:
The co-mingled temporary stockpile on-site was tarped and anchored. The silt fencing around it was taken down towards the center where pile driving activities were done.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Orange-brown coating coming off of parking lot stockpiles. Coating doesn`t reach drains. Additional sheeting was placed under the haybales to better retain coating. The silt fence around the co-mingled stockpile was opened as to allow pile driving activities to commence.

General Notes:
The co-mingled temporary stockpile on-site was tarped and anchored. The silt fencing around it was taken down towards the center where pile driving activities were done.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 9/05/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes:
Heavy wind dislogged tarping on the parking lot and temporary on-site stockpiles. The stockpiles were fixed immediately.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

General Notes:
Heavy wind dislogged tarping on the parking lot and temporary on-site stockpiles. The stockpiles were fixed immediately. Co-mingled soil was used to backfill and hold concrete forms.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 9/11/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes:
Soil from co-mingled soil stockpile on-site was backfilled into concrete base. Stockpile uncovered as backfilled.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

General Notes:
Soil from co-mingled soil stockpile on-site was backfilled into concrete base. Soil uncovered as soil was backfilled.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 9/29/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes:
Clean fill will be brought on the site and sampled by Maser Consulting to assure QAQC.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

General Notes:
Clean fill will be brought on to the site and sampled by Maser Consulting to assure QAQC.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 10/06/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes:
Co-mingled soil towards the southern end of the building compacted in lifts. Clean fill will be brought on to the site and sampled by Maser Consulting to assure QAQC for remaining backfill. Site currently prepared for installation of SSDS.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

General Notes:
Co-mingled soil towards the southern end of the building compacted in lifts. Clean fill will be brought on to the site and sampled by Maser Consulting to assure QAQC for remaining backfill. Site currently prepared for installation of SSDS.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 10/11/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes:
Co-mingled soil towards the southern end of the building compacted in lifts. Clean gravel brought in and spread across compacted areas in preparation for installation of SSDS.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

General Notes:
Co-mingled soil towards the southern end of the building compacted in lifts. Clean gravel brought in and spread across compacted areas in preparation for installation of SSDS.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 10/25/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes:
Co-mingled soil stockpile is located towards the eastern side of the construction site. Clean crushed stone is stockpiled on the western side in preparation for installation of SSDS components.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 11/01/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☐ ☑ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes No NA

☐ ☐ ☐ Installed concrete blocks lengthwise so open ends face outward, not upward.
☐ ☐ ☐ Placed wire screen between No. 3 crushed stone and concrete blocks.
☐ ☐ ☐ Drainage area is 1acre or less.
☐ ☐ ☐ Excavated area is 900 cubic feet.
☐ ☐ ☐ Excavated side slopes should be 2:1.
☐ ☐ ☐ 2" x 4" frame is constructed and structurally sound.
☐ ☐ ☐ Posts 3-foot maximum spacing between posts.
☐ ☐ ☐ Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☐ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes No NA

☐ ☐ ☐ Outlet structure is constructed per the approved plan or drawing.
☐ ☐ ☐ Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes No NA

☐ ☐ ☐ Basin and outlet structure constructed per the approved plan.
☐ ☐ ☐ Basin side slopes are stabilized with seed/mulch.
☐ ☐ ☐ Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

General Notes:
Co-mingled soil towards the southern end of the building compacted in lifts. Clean gravel brought in and spread across compacted areas in preparation for installation of SSDS.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 11/08/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes	No	NA	
☐	☐	☑	Is channel stable? (flow is not eroding soil underneath or around the structure).
☐	☐	☑	Check is in good condition (rocks in place and no permanent pools behind the structure).
☐	☐	☑	Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes	No	NA	
☐	☐	☑	Installed per plan.
☐	☐	☑	Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes	No	NA	
☐	☑	☐	Stockpiles are stabilized with vegetation and/or mulch.
☑	☐	☐	Sediment control is installed at the toe of the slope.

2. Revegetation

Yes	No	NA	
☐	☐	☑	Temporary seedings and mulch have been applied to idle areas.
☐	☐	☑	4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes	No	NA	
☑	☐	☐	Stone is clean enough to effectively remove mud from vehicles.
☑	☐	☐	Installed per standards and specifications?
☑	☐	☐	Does all traffic use the stabilized entrance to enter and leave site?
☑	☐	☐	Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes	No	NA	
☑	☐	☐	Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑	☐	☐	Joints constructed by wrapping the two ends together for continuous support.
☑	☐	☐	Fabric buried 6 inches minimum.
☑	☑	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 5 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 11/29/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 12/6/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — December 13, 2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

High winds displaced several tarps that were used to cover the soil stockpile in the parking lot. Tarps are being replaced and secured.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 12/22/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

During the week, new sheeting and tarps were placed over the soils stockpiled in the parking lot.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 12/27/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — January 3, 2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

all stockpile soils inside the construction area have been spread to grade level(s). Soil stockpile in the parking area continues to require re-tarping and anchoring as a result of high winds. Security screening between the construction site and the golf course has-for the most part, been taken down also due to high wind conditions.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil
Inspector (print name)

January 10, 2018
Date of Inspection

David Keil
Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Weathered sections of non-essential silt fence surrounding the soil stockpile in the parking lot are scheduled for removal and replacement. Repairs are expected on or before January 17, 2018.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 01/17/2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 0 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Storm Drain Sediment filters--downslope of the soil stockpile in the parking lot--were cleaned and reinstalled over the past week.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — January 24, 2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 0 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

20 to 25mph winds today displaced some of the tarps used to cover the soil stockpile in the parking lot. By day's end, new tarps were spread over the soil stockpile and anchored.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — January 31, 2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 0 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 02/07/2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 5% % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Soil stockpile and hay bails to be covered (tarped) following the snow/rain event of 2/7/2018. Hay Bails are to be re-set as well.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave keil
Inspector (print name)

February 14, 2018
Date of Inspection

David Keil
Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes	No	NA	
☐	☐	☑	Is channel stable? (flow is not eroding soil underneath or around the structure).
☐	☐	☑	Check is in good condition (rocks in place and no permanent pools behind the structure).
☐	☐	☑	Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes	No	NA	
☐	☐	☑	Installed per plan.
☐	☐	☑	Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes	No	NA	
☐	☑	☐	Stockpiles are stabilized with vegetation and/or mulch.
☑	☐	☐	Sediment control is installed at the toe of the slope.

2. Revegetation

Yes	No	NA	
☐	☐	☑	Temporary seedings and mulch have been applied to idle areas.
☐	☐	☑	4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes	No	NA	
☑	☐	☐	Stone is clean enough to effectively remove mud from vehicles.
☑	☐	☐	Installed per standards and specifications?
☑	☐	☐	Does all traffic use the stabilized entrance to enter and leave site?
☑	☐	☐	Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes	No	NA	
☑	☐	☐	Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑	☐	☐	Joints constructed by wrapping the two ends together for continuous support.
☐	☑	☐	Fabric buried 6 inches minimum.
☑	☑	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 0 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

New silt fence was installed around the soil stockpile in the parking area. The silt fence is staked in-place above the curb-line in the grassy islands of the northern parking lot. New tarps and tarp-anchors were set in place on this same stockpile.

Storm sewer sediment traps were also cleaned and replaced.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 02/23/2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes	No	NA	
☐	☐	☑	Is channel stable? (flow is not eroding soil underneath or around the structure).
☐	☐	☑	Check is in good condition (rocks in place and no permanent pools behind the structure).
☐	☐	☑	Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes	No	NA	
☐	☐	☑	Installed per plan.
☐	☐	☑	Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes	No	NA	
☐	☑	☐	Stockpiles are stabilized with vegetation and/or mulch.
☑	☐	☐	Sediment control is installed at the toe of the slope.

2. Revegetation

Yes	No	NA	
☐	☐	☑	Temporary seedings and mulch have been applied to idle areas.
☐	☐	☑	4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes	No	NA	
☑	☐	☐	Stone is clean enough to effectively remove mud from vehicles.
☑	☐	☐	Installed per standards and specifications?
☑	☐	☐	Does all traffic use the stabilized entrance to enter and leave site?
☑	☐	☐	Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes	No	NA	
☑	☐	☐	Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑	☐	☐	Joints constructed by wrapping the two ends together for continuous support.
☑	☐	☐	Fabric buried 6 inches minimum.
☑	☑	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 5 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

All erosion control features were found to be in satisfactory condition

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 02/28/2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes	No	NA	
☐	☐	☑	Is channel stable? (flow is not eroding soil underneath or around the structure).
☐	☐	☑	Check is in good condition (rocks in place and no permanent pools behind the structure).
☐	☐	☑	Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes	No	NA	
☐	☐	☑	Installed per plan.
☐	☐	☑	Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes	No	NA	
☐	☑	☐	Stockpiles are stabilized with vegetation and/or mulch.
☑	☐	☐	Sediment control is installed at the toe of the slope.

2. Revegetation

Yes	No	NA	
☐	☐	☑	Temporary seedings and mulch have been applied to idle areas.
☐	☐	☑	4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes	No	NA	
☑	☐	☐	Stone is clean enough to effectively remove mud from vehicles.
☑	☐	☐	Installed per standards and specifications?
☑	☐	☐	Does all traffic use the stabilized entrance to enter and leave site?
☑	☐	☐	Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes	No	NA	
☑	☐	☐	Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑	☐	☐	Joints constructed by wrapping the two ends together for continuous support.
☑	☐	☐	Fabric buried 6 inches minimum.
☑	☑	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 5 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

All erosion control features were found to be in satisfactory condition

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 03/08/2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes	No	NA	
☐	☐	☑	Is channel stable? (flow is not eroding soil underneath or around the structure).
☐	☐	☑	Check is in good condition (rocks in place and no permanent pools behind the structure).
☐	☐	☑	Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes	No	NA	
☐	☐	☑	Installed per plan.
☐	☐	☑	Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes	No	NA	
☐	☑	☐	Stockpiles are stabilized with vegetation and/or mulch.
☑	☐	☐	Sediment control is installed at the toe of the slope.

2. Revegetation

Yes	No	NA	
☐	☐	☑	Temporary seedings and mulch have been applied to idle areas.
☐	☐	☑	4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes	No	NA	
☑	☐	☐	Stone is clean enough to effectively remove mud from vehicles.
☑	☐	☐	Installed per standards and specifications?
☑	☐	☐	Does all traffic use the stabilized entrance to enter and leave site?
☑	☐	☐	Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes	No	NA	
☑	☐	☐	Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑	☐	☐	Joints constructed by wrapping the two ends together for continuous support.
☑	☐	☐	Fabric buried 6 inches minimum.
☑	☑	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 5 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

All erosion control features were found to be in satisfactory condition following the March 7, 2018 Nor'easter. Only minor displacements to the tarps covering the soil stockpile in the parking lot were noted. It was recommended that the contractor adjust the tarp anchors where they may have loosed to form a more wind-resistant cover.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil
Inspector (print name)

March 23, 2018
Date of Inspection

David Keil
Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 5 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 5 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

The post-storm inspection of the soil pile in the parking lot showed that several tarps have been displaced. JCS has been directed to re-trap and re-anchor the tarps as soon as possible.

Excess soils from the electrical trench for the clock tower remain on-site. The soil will be re-used in the construction area in the near future.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

David Keil — 3/28/2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes	No	NA	
☐	☐	☑	Is channel stable? (flow is not eroding soil underneath or around the structure).
☐	☐	☑	Check is in good condition (rocks in place and no permanent pools behind the structure).
☐	☐	☑	Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes	No	NA	
☐	☐	☑	Installed per plan.
☐	☐	☑	Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes	No	NA	
☐	☑	☐	Stockpiles are stabilized with vegetation and/or mulch.
☑	☐	☐	Sediment control is installed at the toe of the slope.

2. Revegetation

Yes	No	NA	
☐	☐	☑	Temporary seedings and mulch have been applied to idle areas.
☐	☐	☑	4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes	No	NA	
☑	☐	☐	Stone is clean enough to effectively remove mud from vehicles.
☑	☐	☐	Installed per standards and specifications?
☑	☐	☐	Does all traffic use the stabilized entrance to enter and leave site?
☑	☐	☐	Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes	No	NA	
☑	☐	☐	Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑	☐	☐	Joints constructed by wrapping the two ends together for continuous support.
☑	☐	☐	Fabric buried 6 inches minimum.
☑	☑	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Cover tarps on the soil stockpile in the parking lot need to be re-adjusted. Winds have displaced them again. JCS has been advised to address this matter asap and to clean the silt traps in the storm sewer at the same time.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 4/04/2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes	No	NA	
☐	☐	☑	Is channel stable? (flow is not eroding soil underneath or around the structure).
☐	☐	☑	Check is in good condition (rocks in place and no permanent pools behind the structure).
☐	☐	☑	Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes	No	NA	
☐	☐	☑	Installed per plan.
☐	☐	☑	Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes	No	NA	
☐	☑	☐	Stockpiles are stabilized with vegetation and/or mulch.
☑	☐	☐	Sediment control is installed at the toe of the slope.

2. Revegetation

Yes	No	NA	
☐	☐	☑	Temporary seedings and mulch have been applied to idle areas.
☐	☐	☑	4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes	No	NA	
☑	☐	☐	Stone is clean enough to effectively remove mud from vehicles.
☑	☐	☐	Installed per standards and specifications?
☑	☐	☐	Does all traffic use the stabilized entrance to enter and leave site?
☑	☐	☐	Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes	No	NA	
☑	☐	☐	Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑	☐	☐	Joints constructed by wrapping the two ends together for continuous support.
☑	☐	☐	Fabric buried 6 inches minimum.
☑	☑	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Cover tarps on soil stockpile in parking lot have been re-secured and re-anchored.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 4-18-2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 5 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

soil stockpile in parking lot was not re-used on site this week as planned. Re-use is scheduled for next week.
Tarps need to be re-secured until re-use is in progress.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — May 4, 2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

soil stockpile remains in the parking lot. Re-use fo material behind the new club house is scheduled for next week.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 5-8-2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

movement of soils from parking lot into the construction site did not take place as scheduled this week.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 5-16-2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Movement of soils from parking lot stockpile to the construction site began this week. Approximately 50% of the stockpiled material was re-used.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 5-23-2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes	No	NA	
☐	☐	☑	Is channel stable? (flow is not eroding soil underneath or around the structure).
☐	☐	☑	Check is in good condition (rocks in place and no permanent pools behind the structure).
☐	☐	☑	Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes	No	NA	
☐	☐	☑	Installed per plan.
☐	☐	☑	Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes	No	NA	
☐	☑	☐	Stockpiles are stabilized with vegetation and/or mulch.
☑	☐	☐	Sediment control is installed at the toe of the slope.

2. Revegetation

Yes	No	NA	
☐	☐	☑	Temporary seedings and mulch have been applied to idle areas.
☐	☐	☑	4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes	No	NA	
☑	☐	☐	Stone is clean enough to effectively remove mud from vehicles.
☑	☐	☐	Installed per standards and specifications?
☑	☐	☐	Does all traffic use the stabilized entrance to enter and leave site?
☑	☐	☐	Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes	No	NA	
☑	☐	☐	Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑	☐	☐	Joints constructed by wrapping the two ends together for continuous support.
☑	☐	☐	Fabric buried 6 inches minimum.
☑	☑	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

with the soil re-use in progress, the silt fence has limited use and has been taken down in areas where the stockpile has been removed. Hay bails continue to surround the pile. Materials are being moved to areas on the construction site.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 5-31-2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes	No	NA	
☐	☐	☑	Is channel stable? (flow is not eroding soil underneath or around the structure).
☐	☐	☑	Check is in good condition (rocks in place and no permanent pools behind the structure).
☐	☐	☑	Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes	No	NA	
☐	☐	☑	Installed per plan.
☐	☐	☑	Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes	No	NA	
☐	☑	☐	Stockpiles are stabilized with vegetation and/or mulch.
☑	☐	☐	Sediment control is installed at the toe of the slope.

2. Revegetation

Yes	No	NA	
☐	☐	☑	Temporary seedings and mulch have been applied to idle areas.
☐	☐	☑	4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes	No	NA	
☑	☐	☐	Stone is clean enough to effectively remove mud from vehicles.
☑	☐	☐	Installed per standards and specifications?
☑	☐	☐	Does all traffic use the stabilized entrance to enter and leave site?
☑	☐	☐	Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes	No	NA	
☑	☐	☐	Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑	☐	☐	Joints constructed by wrapping the two ends together for continuous support.
☑	☐	☐	Fabric buried 6 inches minimum.
☑	☑	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

approximately 1/4 of the soils stockpiled in the parking lot remains. The balance has been moved to the construction site for the new club house.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil
Inspector (print name)

June 8, 2018
Date of Inspection

David Keil
Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☐ ☑ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☐ ☐ ☑ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☐ ☑ Joints constructed by wrapping the two ends together for continuous support.
☐ ☐ ☑ Fabric buried 6 inches minimum.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is 10 % of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

most of the soil stockpile from the parking lot has been relocated to the club house construction site for regrading.

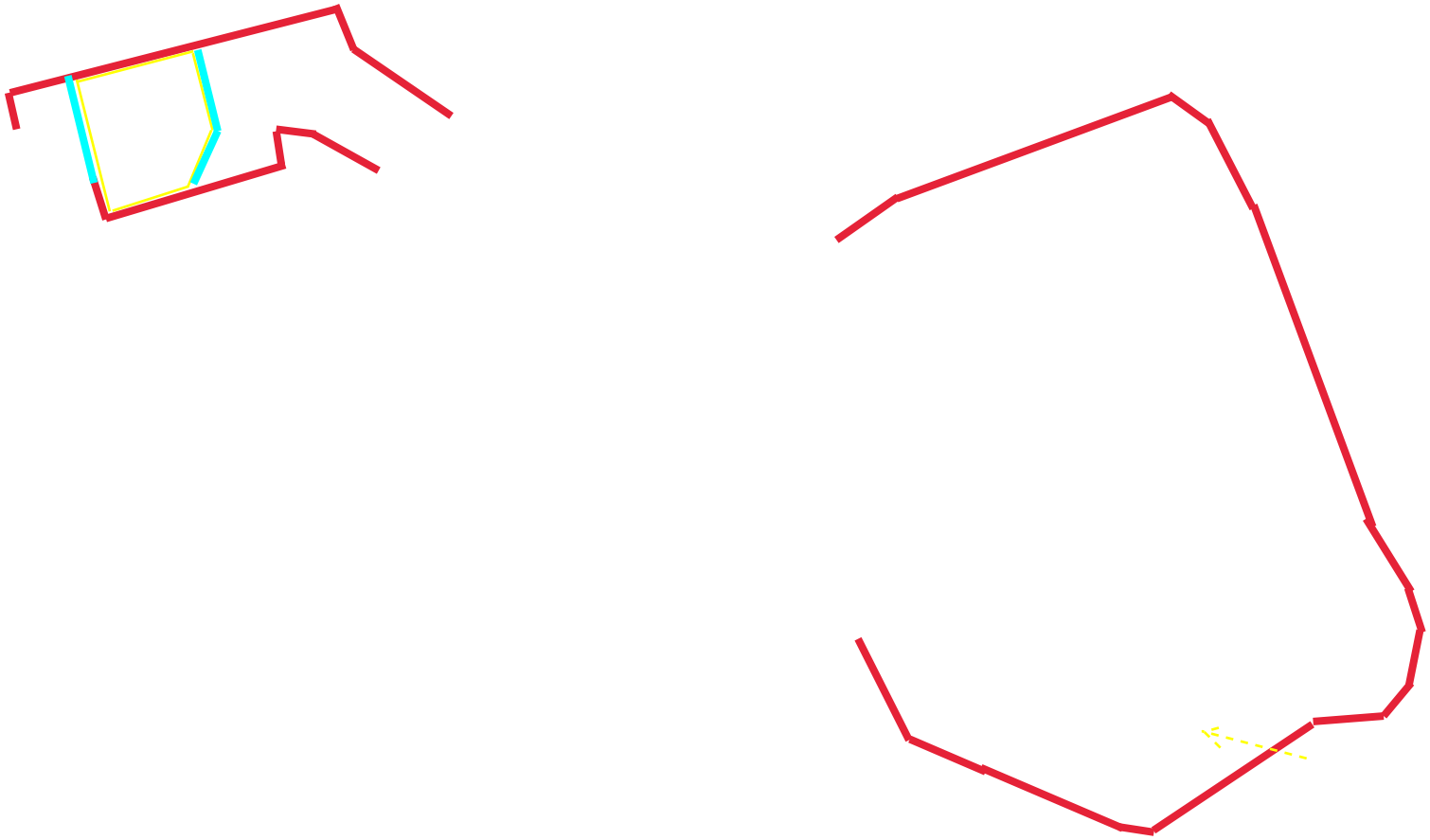

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — June 20, 2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☐ ☑ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☑ ☐ Joints constructed by wrapping the two ends together for continuous support.
☐ ☑ ☐ Fabric buried 6 inches minimum.
☐ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is 10 % of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

minor volumes of soil remain in the parking lot (estimate 2 yards of material)

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

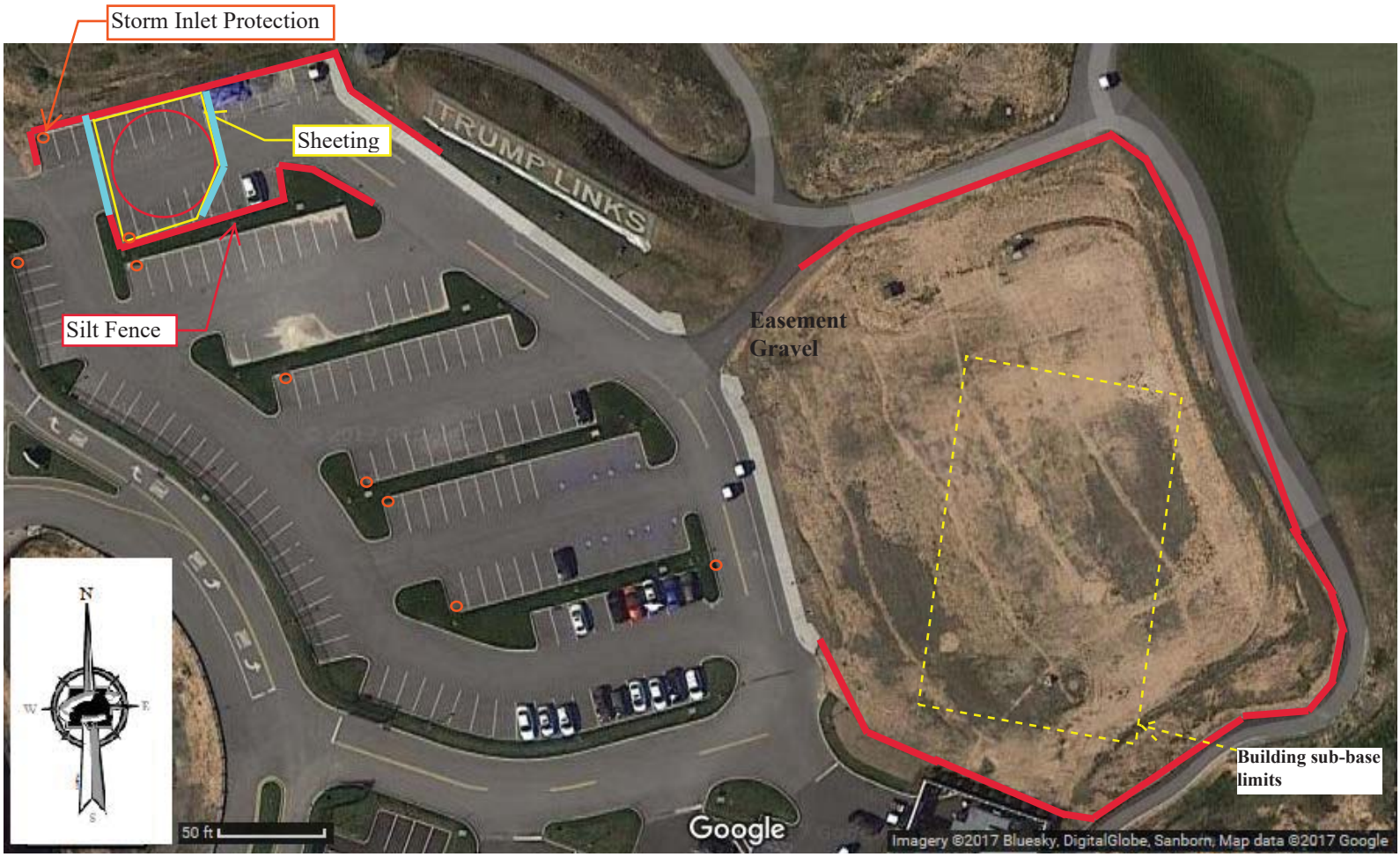

SITE PLAN/SKETCH

Dave Keil — June 27, 2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☐ ☐ ☑ Stone is clean enough to effectively remove mud from vehicles.
☐ ☐ ☑ Installed per standards and specifications?
☐ ☐ ☑ Does all traffic use the stabilized entrance to enter and leave site?
☐ ☐ ☑ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☐ ☐ ☑ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☐ ☑ Joints constructed by wrapping the two ends together for continuous support.
☐ ☐ ☑ Fabric buried 6 inches minimum.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is 25 % of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Sediment traps in storm sewers require cleaning & maintenance. Contractor has been advised.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

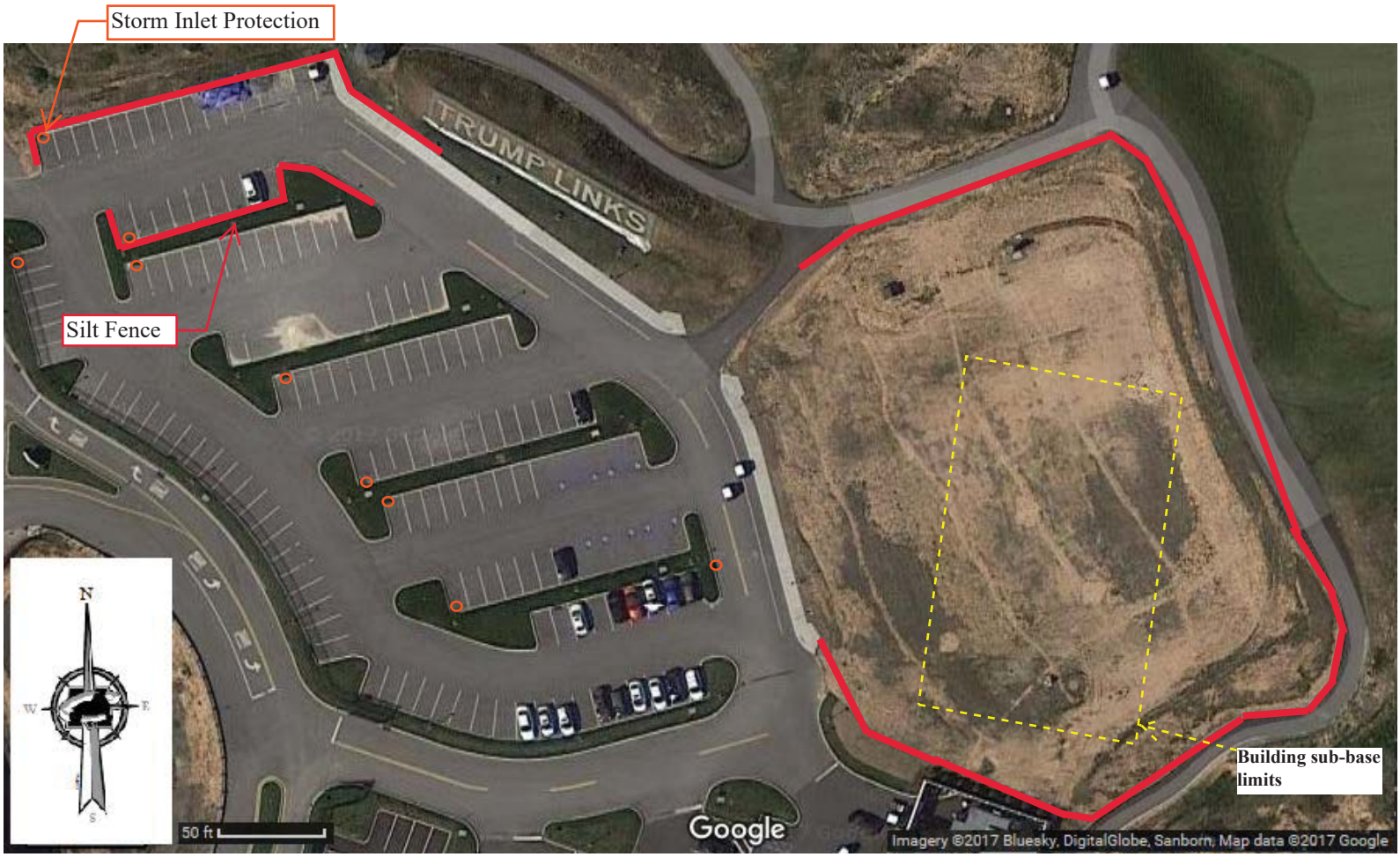

SITE PLAN/SKETCH

Dave Keil
Inspector (print name)

July 5, 2018
Date of Inspection

David Keil
Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☐ ☐ ☑ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☐ ☐ ☑ Stone is clean enough to effectively remove mud from vehicles.
☐ ☐ ☑ Installed per standards and specifications?
☐ ☐ ☑ Does all traffic use the stabilized entrance to enter and leave site?
☐ ☐ ☑ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☐ ☐ ☑ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☐ ☑ Joints constructed by wrapping the two ends together for continuous support.
☐ ☐ ☑ Fabric buried 6 inches minimum.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is 25 % of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Sediment traps in storm sewers require cleaning & maintenance. Traps are filling with sand and grass clippings. Contractor has been advised.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

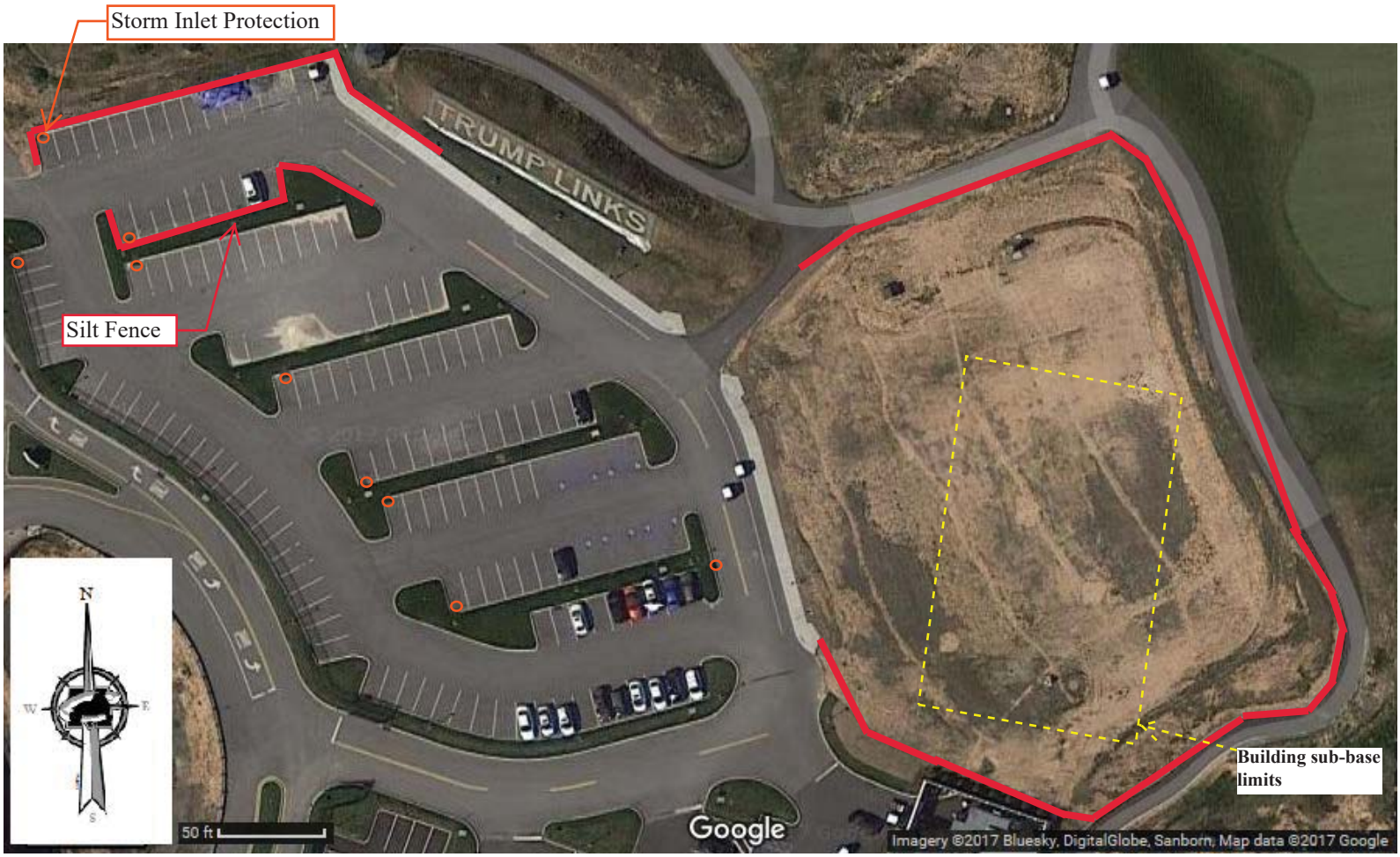

SITE PLAN/SKETCH

Dave Keil
Inspector (print name)

July 11, 2018
Date of Inspection

David Keil
Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☐ ☐ ☑ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☐ ☐ ☑ Stone is clean enough to effectively remove mud from vehicles.
☐ ☐ ☑ Installed per standards and specifications?
☐ ☐ ☑ Does all traffic use the stabilized entrance to enter and leave site?
☐ ☐ ☑ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☐ ☐ ☑ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☐ ☑ Joints constructed by wrapping the two ends together for continuous support.
☐ ☐ ☑ Fabric buried 6 inches minimum.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is 25 % of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Sediment traps in storm sewers require cleaning & maintenance. Traps are filling with sand and grass clippings. Contractor has been advised.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

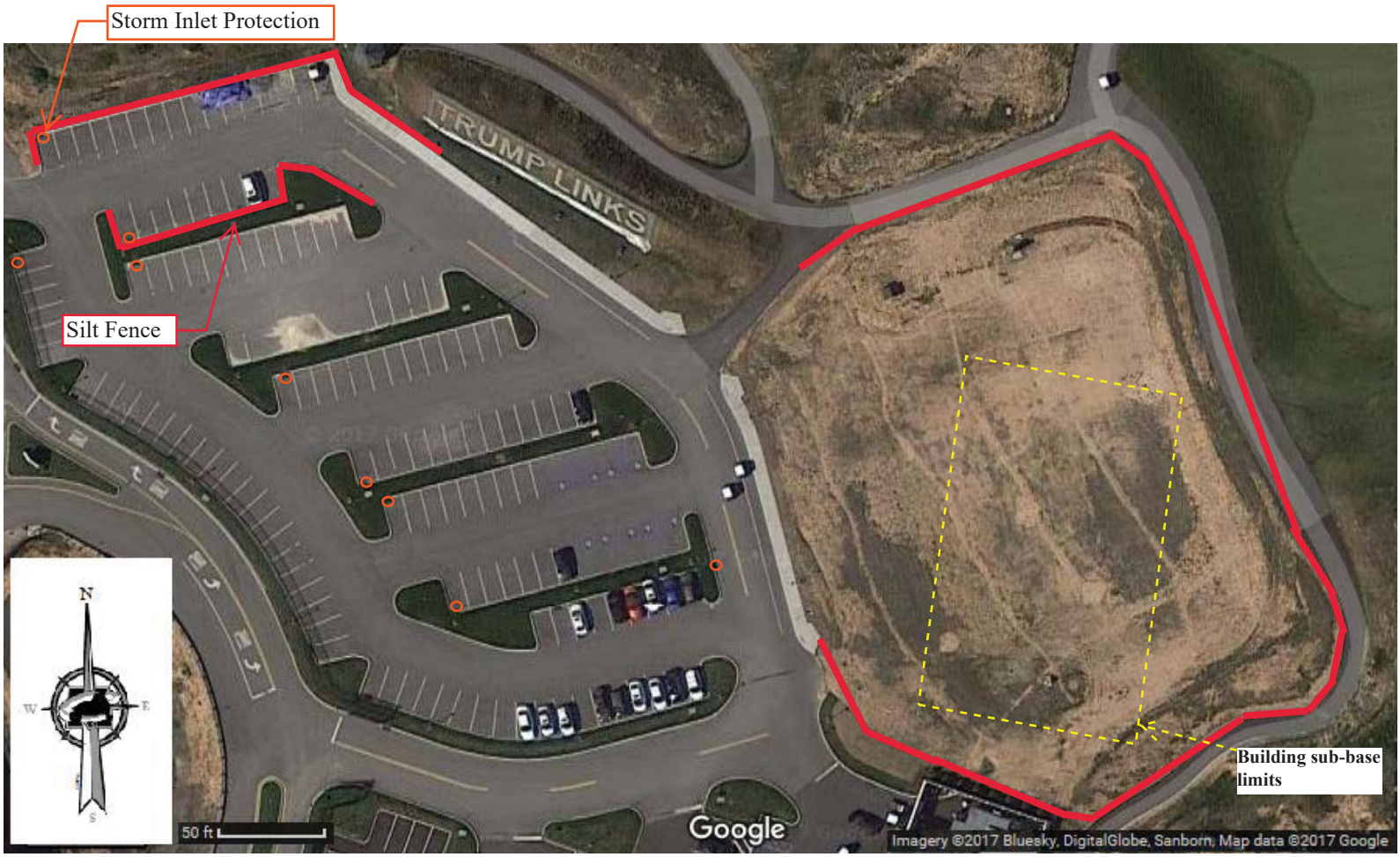

SITE PLAN/SKETCH

Dave Keil
Inspector (print name)

July 17, 2018
Date of Inspection

David Keil
Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☐ ☐ ☑ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☐ ☐ ☑ Stone is clean enough to effectively remove mud from vehicles.
☐ ☐ ☑ Installed per standards and specifications?
☐ ☐ ☑ Does all traffic use the stabilized entrance to enter and leave site?
☐ ☐ ☑ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☐ ☐ ☑ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☐ ☑ Joints constructed by wrapping the two ends together for continuous support.
☐ ☐ ☑ Fabric buried 6 inches minimum.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is 25 % of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Sediment traps in storm sewers require cleaning & maintenance. Traps are filling with sand and grass clippings. Contractor has been advised.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

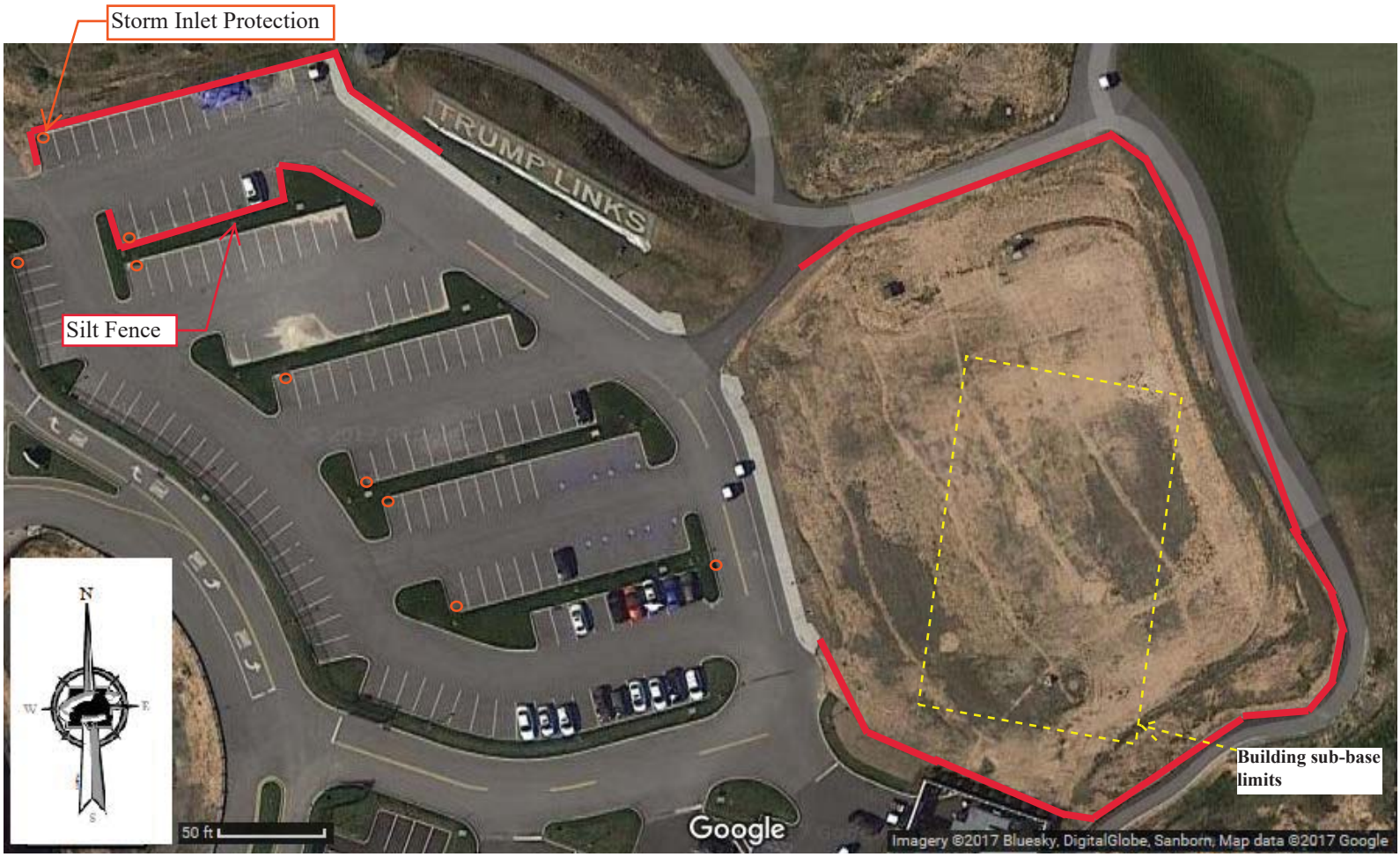

SITE PLAN/SKETCH

Dave Keil
Inspector (print name)

July 25, 2018
Date of Inspection

David Keil
Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☐ ☐ ☑ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☐ ☐ ☑ Stone is clean enough to effectively remove mud from vehicles.
☐ ☐ ☑ Installed per standards and specifications?
☐ ☐ ☑ Does all traffic use the stabilized entrance to enter and leave site?
☐ ☐ ☑ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☐ ☐ ☑ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☐ ☑ Joints constructed by wrapping the two ends together for continuous support.
☐ ☐ ☑ Fabric buried 6 inches minimum.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes No NA

☐ ☑ ☐ Installed concrete blocks lengthwise so open ends face outward, not upward.
☐ ☐ ☑ Placed wire screen between No. 3 crushed stone and concrete blocks.
☐ ☐ ☑ Drainage area is 1acre or less.
☐ ☐ ☑ Excavated area is 900 cubic feet.
☐ ☐ ☑ Excavated side slopes should be 2:1.
☐ ☐ ☑ 2" x 4" frame is constructed and structurally sound.
☐ ☐ ☑ Posts 3-foot maximum spacing between posts.
☐ ☐ ☑ Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes No NA

☐ ☐ ☑ Outlet structure is constructed per the approved plan or drawing.
☐ ☐ ☑ Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is 25 % of design capacity.

5. Temporary Sediment Basin

Yes No NA

☐ ☐ ☑ Basin and outlet structure constructed per the approved plan.
☐ ☐ ☑ Basin side slopes are stabilized with seed/mulch.
☐ ☐ ☑ Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

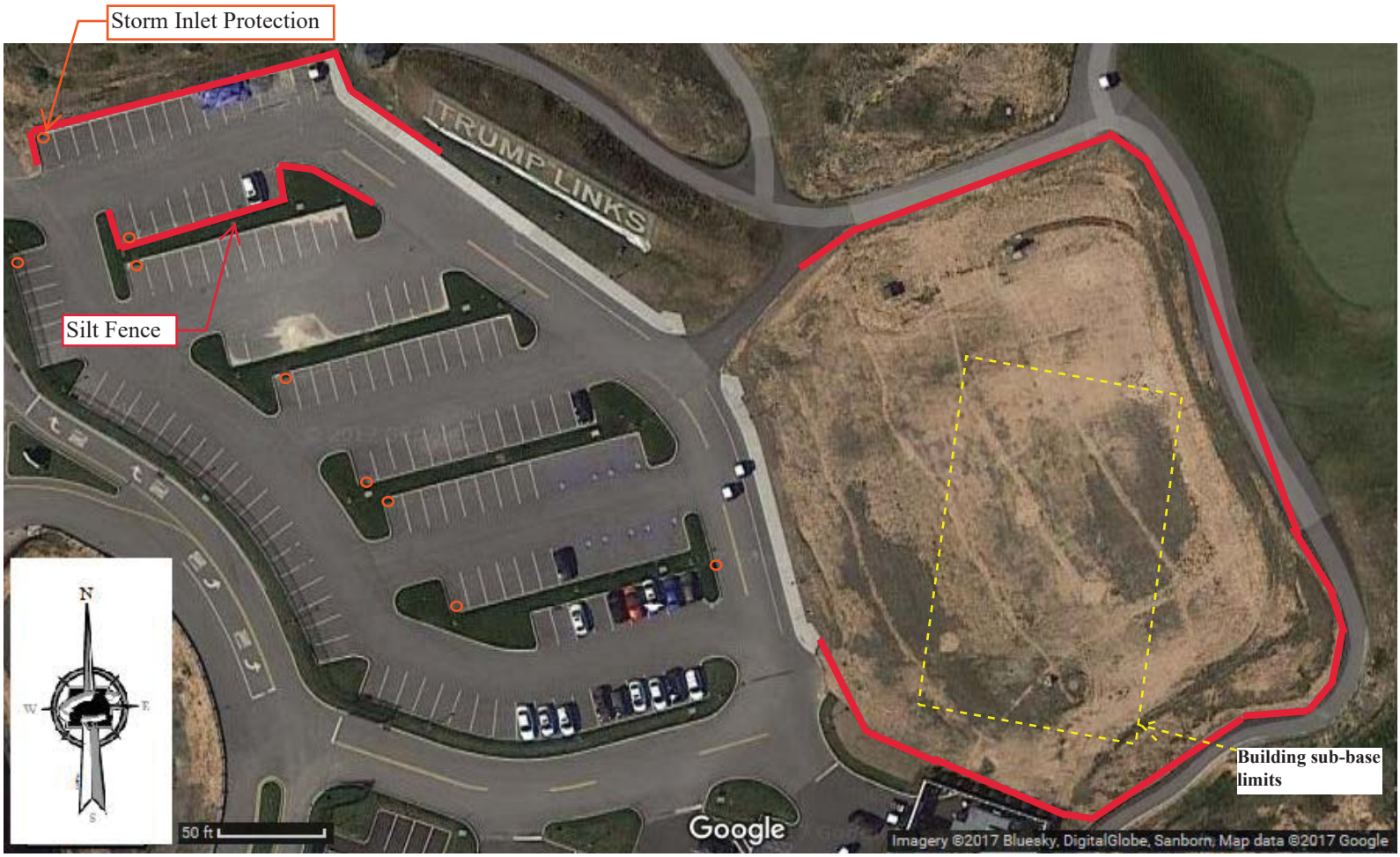

SITE PLAN/SKETCH

Dave Keil
Inspector (print name)

August 1, 2018
Date of Inspection

David Keil
Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☐ ☑ Stockpiles are stabilized with vegetation and/or mulch.
☐ ☐ ☑ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☐ ☐ ☑ Stone is clean enough to effectively remove mud from vehicles.
☐ ☐ ☑ Installed per standards and specifications?
☐ ☐ ☑ Does all traffic use the stabilized entrance to enter and leave site?
☐ ☐ ☑ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☐ ☐ ☑ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☐ ☑ Joints constructed by wrapping the two ends together for continuous support.
☐ ☐ ☑ Fabric buried 6 inches minimum.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes No NA

☐ ☐ ☑ Installed concrete blocks lengthwise so open ends face outward, not upward.
☐ ☐ ☑ Placed wire screen between No. 3 crushed stone and concrete blocks.
☐ ☐ ☑ Drainage area is 1acre or less.
☐ ☐ ☑ Excavated area is 900 cubic feet.
☐ ☐ ☑ Excavated side slopes should be 2:1.
☐ ☐ ☑ 2" x 4" frame is constructed and structurally sound.
☐ ☐ ☑ Posts 3-foot maximum spacing between posts.
☐ ☐ ☑ Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes No NA

☐ ☐ ☑ Outlet structure is constructed per the approved plan or drawing.
☐ ☐ ☑ Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is 25 % of design capacity.

5. Temporary Sediment Basin

Yes No NA

☐ ☐ ☑ Basin and outlet structure constructed per the approved plan.
☐ ☐ ☑ Basin side slopes are stabilized with seed/mulch.
☐ ☐ ☑ Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

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2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Sediment traps in storm sewers require cleaning & maintenance. Traps are filling with sand and grass clippings. Contractor has been advised.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

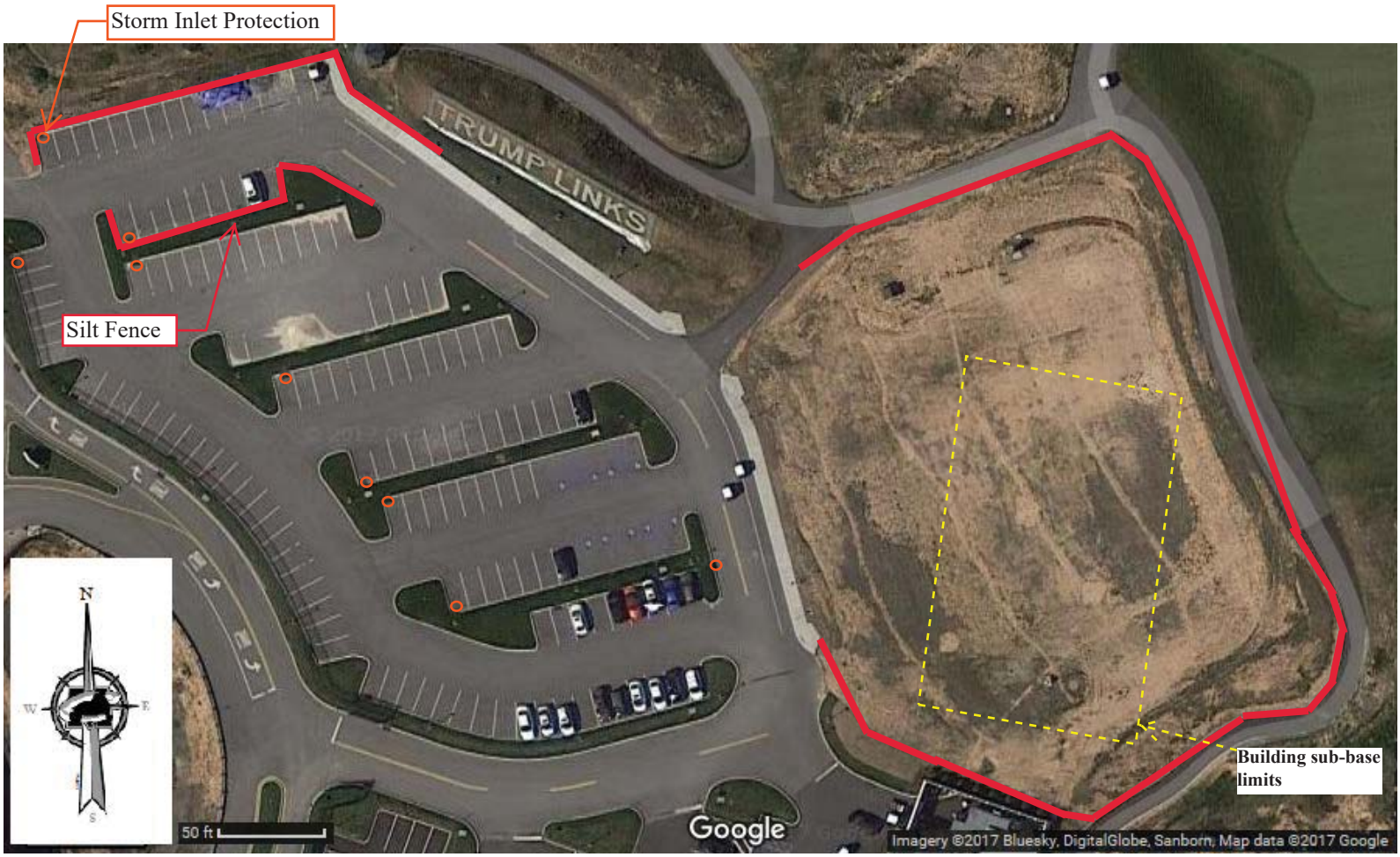

SITE PLAN/SKETCH

Dave Keil
Inspector (print name)

August 8, 2018
Date of Inspection

David Keil
Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☐ ☑ Stockpiles are stabilized with vegetation and/or mulch.
☐ ☐ ☑ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☐ ☐ ☑ Stone is clean enough to effectively remove mud from vehicles.
☐ ☐ ☑ Installed per standards and specifications?
☐ ☐ ☑ Does all traffic use the stabilized entrance to enter and leave site?
☐ ☐ ☑ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☐ ☐ ☑ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☐ ☑ Joints constructed by wrapping the two ends together for continuous support.
☐ ☐ ☑ Fabric buried 6 inches minimum.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes No NA

☐ ☐ ☑ Installed concrete blocks lengthwise so open ends face outward, not upward.
☐ ☐ ☑ Placed wire screen between No. 3 crushed stone and concrete blocks.
☐ ☐ ☑ Drainage area is 1acre or less.
☐ ☐ ☑ Excavated area is 900 cubic feet.
☐ ☐ ☑ Excavated side slopes should be 2:1.
☐ ☐ ☑ 2" x 4" frame is constructed and structurally sound.
☐ ☐ ☑ Posts 3-foot maximum spacing between posts.
☐ ☐ ☑ Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes No NA

☐ ☐ ☑ Outlet structure is constructed per the approved plan or drawing.
☐ ☐ ☑ Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is 25 % of design capacity.

5. Temporary Sediment Basin

Yes No NA

☐ ☐ ☑ Basin and outlet structure constructed per the approved plan.
☐ ☐ ☑ Basin side slopes are stabilized with seed/mulch.
☐ ☐ ☑ Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

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b. Modifications to the SWPPP (To be completed as described below)

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3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Sediment traps in storm sewers require cleaning & maintenance. Traps are filling with sand and grass clippings. Contractor has been advised.

APPENDIX I

DORs for New Clubhouse Construction

MASER CONSULTING P.A.

Engineers
Planners
Surveyors
Landscape Architects
Environmental Scientists

2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
T: 856.797.0412
F: 856.722.1120

DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy/Slight Sun and wind** **Humidity**

Date: July 19, 2017 **Time: 0700** **Temp: 80-90** °F High Med Low

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Trump Construction

Active Site Work Areas: Sonotube installation.

Site Work Progress: An approximately 5' x 5' x 6' deep hole was dug for the installation of a Sonotube Security Camera towards the northeastern bounds of the Trump Golf Links golf course. Soil from the camera location (cover and shaping) was placed separately (cover material placed in one stockpile; shaping material in a separate stockpile) and on top of plywood. In addition a 2' x 60' x 2' trench was cut from the Sonotube location to a nearby "hotbox" in order to power the camera.

The shaping layer soil was marked by a demarcation layer prior to stockpiling. The orange snow sheeting was cut out with a box cutter and the shaping layer was dug out. To avoid hitting a fiber optic electrical line, the area was hand dug with shovels until the line was located.

The two separate stockpiles along the Sonotube location and trench (cover and shaping) were covered with tarps and anchored with surrounding rocks after soil disturbance was complete.

Remarks: Two locations are proposed to have the security cameras installed. The first location is outlined in today`s report in the north east outer limits of the golf course. The second location is proposed to be towards the north western limits of the golf course property and will be solar powered rather than powered by the "hotbox".

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato **Reviewed By:**
Date:

Engineers
Planners
Surveyors
Landscape Architects
Environmental Scientists

2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
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Sonotube location (Cover layer to the left on plywood, shaping layer to the right on plywood).

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Both cover and shaping layer soil tarped after soil disturbance activities.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Cloudy/Slight Sun and wind** **Humidity**

Date: July 20, 2017 **Time: 0700** **Temp: 90-100** °F High Med (Low)

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Trump Construction

Active Site Work Areas: Sonotube Installation.

Site Work Progress: Two conduit PVC 40 pipes (1" dia.) were placed in the trench from the previous day (roughly 60' long). Pipes were spread out in the trench as to reduce interference from each line.

The pipes were fitted with elbows into the "hotbox" and had caution tape placed over them. The pipes were then covered with surrounding shaping layer material and the demarcation boundary re-established. The trench was backfilled with surrounding cover layer material.

Caution tape was also placed on top of the fiber optic cable as a demarcation barrier/caution warning to future excavators.

Remarks: Shaping layer material was covered overnight and anchored with a tarp to eliminate disturbance.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato **Reviewed By:**
Date:

Engineers
Planners
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Environmental Scientists

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Trench going into hotbox, demarcation layer shown.

Engineers
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PVC piping going from the hotbox to the Sonotube location.

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Trench was backfilled after the electrical conduit installation was completed. Remaining shaping soil (right side on plywood) redistributed next to Sonotube location (North). Capped with 1.5 feet of cover soil.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sun and Slight wind** **Humidity**

Date: Trump Golf Links **Time: 0700** **Temp: 90-100** °F High Med Low

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Removal and stockpile of Cover layer in proposed building location

Site Work Progress: Cover layer soil was excavated within the building location. Soil was stockpiled on the construction site at first until approval by DEC was met. Once approved, soil was transferred to the back parking lot on top of clear polyethylene sheeting.

Remarks: Soil was scanned with a PID after being transferred off site. No detection above regulatory limits was found. Careful attention by the excavator was paid as to not cross contaminate the cover with shaping. Clean fill manifests were supposedly brought in for the soil.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunaato

Reviewed By:
Date: 7/21/2017

Customer Loyalty *through* Client Satisfaction

MASER CONSULTING P.A.

Engineers
Planners
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Mt. Laurel, NJ 08054
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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU (SA circled)

Weather: Sun and Slight wind

Humidity High Med Low (Low circled)

Date: Trump Golf Links **Time: 0700**

Temp: 85-95 °F

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Removal and stockpile of Cover layer in proposed building location

Site Work Progress: Additional cover layer soil was moved to stockpile site. Soil was prepared as to comply with soil and erosion control plans. Haybales and drainage prevention systems were installed and a tarp with anchors (sandbags) placed on top. Asphault over the top of the golf cart roadway was broken up and stockpiled within the construction area.

Remarks: No detection above regulatory limits was found in scanning the soil.

Site Photographs: Yes (Yes circled) No

Additional Action Required by Project Mgr. or Eng.:

YES NO (NO circled)

Observed By: John Fortunato

Reviewed By:
Date: 7/22/2017

Customer Loyalty *through* Client Satisfaction

MASER CONSULTING P.A.
Consulting, Municipal & Environmental Engineers
Planners ▪ Surveyors ▪ Landscape Architects

American Metro Center
100 American Metro Blvd., Suite 152
Hamilton, NJ 08619
Tel: 609.587.8200 ▪ Fax: 609.587.8260

DAILY FIELD OBSERVATION REPORT

M T W TH F SA SU

Date: 7/24/2017 **Time:** 0645

Weather: RAIN/WIND **Wind:** GUSTY

Temp: 65-70°

Humidity High Med Low

Name of Project: TRUMP LINKS

Municipality: BRONX, NY

Job No: 17007426A

Site Contractors: TSC

Active Site Work Areas:

EXCAVATION OF ELECTRICAL CONDUITS AT THE TO-BE-CONSTRUCTED TRUMP LINKS CLUB HOUSE

Site Work Progress:

APPROXIMATELY 150 LINEAR FEET OF ELECTRICAL CONDUIT WAS EXPOSED ALONG THE EASTERN SIDE OF THE CONSTRUCTION AREA.

Remarks:

HEAVY RAINS ON THE MORNING DELAYED WORK TO SOME DEGREE - BUT MEASURABLE PROGRESS WAS MADE BY DAY'S END.

NO DEMARCATION LAYER OR WASTE WAS ENCOUNTERED DURING THE EXCAVATION. PERIODIC AIR MEASUREMENTS DID NOT DETECT ANY LANDFILL GASES.

ALL WORK PERFORMED TODAY WAS DONE IN COMPLIANCE WITH ESTABLISHED GUIDELINES & PROTOCOLS

Site Photographs: YES

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: D. KELL

Reviewed By:

Date:

MASER CONSULTING P.A.

Engineers
Planners
Surveyors
Landscape Architects
Environmental Scientists

2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
T: 856.797.0412
F: 856.722.1120

DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sun and Slight wind** **Humidity**

Date: July 25, 2017 **Time: 0700** **Temp: 70-80** °F High Med Low

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Excavation of existing underground electrical conduits, Trenching of new electrical conduits, spreading of Aeration core piles into non-play areas.

Site Work Progress: Roughly 100 ft. of underground electrical conduit was exposed from the eastern trench to the current clubhouse/office building in the construction site. A similar trench was excavated along the outer limits of the current conduit trench, with the exception of the eastern side which expanded over the former asphalt golf cart roadway. Two parallel PVC pipes (4" dia.) for the electrical conduits were then laid in the outer trench. Silt fencing along the lower elevation limits was trenched as to have 6" of fencing in the ground, preventing erosion/ runoff. The upgradient area of the aeration piles was excavated and aeration soil was distributed behind Hole 18 in a non-playing area of the golf course.

Remarks: Water accumulated towards the center of the construction area from the previous rain event. JCS proposes to dig the soil with the water and see if there is recharge. If recharge occurs-against expectation, water will be pumped and containerized in advance of off-site disposal at an approved facility.

No detection from the down-wind gas monitor was seen, with the exception of % oxygen which peaked at 21.7% (up from 20.9). PID readings were found from 10:00 to 10:30 am around the perimeter of the excavation at 0.8 ppm (average) and 2.5 ppm (peak). Readings inside the trailer were found 0.0 ppm and the PID was recalibrated inside the trailer. No odor was observed on site and readings returned to 0.0 ppm after 10:30 am; humidity may have affected PID. Silt fencing was installed between the aeration core and hole 18.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato **Reviewed By:**
Date:

Customer Loyalty *through* Client Satisfaction

MASER CONSULTING P. A.

Engineers
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Photo 1: Rain water accumulation towards southern and center construction area (Blue marking indicates water utility, Pink marking indicates axis line).

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Photo 2: Silt fencing lower elevation towards parking lot of construction area (Lower half trenched).

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Photo 3: New conduit trench (40 PVC 4" dia. Piping) located in northeastern side.

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Photo 4: Existing conduit (40 PVC 4" dia. Piping) located in south eastern side.

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Photo 5: Aeration core pile (facing East).

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Photo 7: Aeration core pile (facing West). Bottom of pile noted by soil color and characteristic change (right), remaining aeration pile (left).

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T (W) TH F SA SU **Weather: Sun and Slight wind** **Humidity**

Date: July 26, 2017 **Time: 0700** **Temp: 70-80** °F High Med (Low)

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, Trump Construction

Active Site Work Areas: Accumulation of trenching and cover soil stockpile, Trenching of proposed electrical conduits, Aeration pile excavation and stockpiling in non-play area behind Hole 18.

Site Work Progress: Brown fine-course sand from the proposed conduit trench at the southern end of the construction area and soil from the cover layer stockpile was moved to the north-eastern end. PVC 40 (4" dia.) piping was installed along the eastern and southern reaches of the conduit trench. Roughly 4 – 6" of excavated soil (shaping and cover layer materials) around the trench was placed on top of the conduit piping and electrical warning label tape was placed on top. Aeration core stockpiling continued behind Hole 18. Roughly 1/4 of the pile up gradient of the aeration pile was hauled with two alternating John Deere tractors piling roughly 3' high, silt fenced at the stockpile location. Trenching for new conduit moved roughly 10' south into asphalt. Asphalt stockpile moved north roughly 25' (see Photo #3).

Remarks: Rain water accumulation from the previous storm event was trenched to act as a retention basin. Bulk of the water mass either percolated through soil or evaporated (no recharge). Fencing towards the southern part of the construction area was offset roughly 10' in order to follow site construction plans and allow for trenching next to office building. Silt fencing in this area was reinstalled on the outer temporary fencing side (asphalt blocking inside) and anchored with sandbags.

No detections from the PID or gas monitor were encountered throughout the day, with the exception of oxygen at 20.5% (down from 20.9).

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By: Dave Keil
Date: 7/27/2017

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Photo 1: Aeration core soil stockpile (located in non-playing behind Hole 18). Silt fence is trenched (6" of fence in ground).

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Photo 2: Red warning label tape placed on top of electrical conduit location.

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Photo 3: Brown fine to course sand from new conduit trenching (upper right) and cover sand from July 19-20 stockpile middle stockpiled in northeast corner of site. Asphalt stockpile moved north of previous location (left).

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Photo 4: New electrical conduit trench into asphalt located in southern construction area (near Office/current club building)

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Sun and Slight wind** **Humidity**

Date: July 27, 2017 Time: 0700 **Temp: 70-80 °F** (High) Med Low

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Stockpiling of soil, Trenching and installation of new electrical conduits, Pile driving preparation.

Site Work Progress: New electrical conduit piping in the vicinity of the existing club house building was completed. Warning label tape was placed on top of the 40 PVC (4" dia.) electrical conduit. Trench was later backfilled with original cover material. Electrical wiring was installed through the conduit piping. Shaping layer soil was stockpiled to roughly 20'. Sediment and erosion control plans are proposed to be installed for the stockpile (silt fence, tarped, etc.) once the pile is completely gathered. The "Septic box" was prepared to be relocated away from pile driving activities (disconnection of PVC piping and wiring). Pile driving locations were leveled to grade as needed and marked out. Soil from the piles was gray fine to course sand with rock fragments and moved next to shaping layer stockpile.

Remarks: Rain water accumulation from the previous storm event lowered about 7-9". High humidity throughout the day resulting in a "spotty" PID; readings fluctuated from 3-10 ppm on and off site. No gas detections were made throughout the day. Conduit piping openings were covered with duct tape to prevent water infiltration. PVC 40 (3" dia.) drainage lines into the septic tank were broken when attempting to locate the lines. Water accumulation from the line was drained back into the septic box. Repairs to be made.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato **Reviewed By:**
Date:

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Photo 1: Broken PVC 40 drainage line going into "Septic Box" to be removed.

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Photo 2: Conduit trenching pipe going into existing club house-- to be connected.

Photo 3: Pile driving location pit.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: Sun and heavy fog** **Humidity**

Date: July 28, 2017 Time: 0700 **Temp: 70-80** °F (High) Med Low

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, Trump Construction

Active Site Work Areas: Construction site for proposed new Club House; soil stockpiling in parking area.
Activities included: Grading in construction area; stockpiling of shaping material in the parking area with erosion controls; stockpiling of co-mingled material with erosion controls; stockpiling of aeration cores with controls and removal of septic box.

Site Work Progress: Shaping layer soil was stockpiled in the back parking lot from grading activities taking place to the southeast. Sheeting and silt fencing was installed prior to soil stocking. Sheeting was placed over the concrete curb with silt fencing underneath and anchored with large rocks on top. The stock pile lies next to the cover layer material pile with no observable cross-contamination or co-mingling of materials. Stockpiles are to be covered with a tarp, anchored with sand bags, and have hay bales surrounding them once completed. Drainage and erosion controls are in place. Brown shaping soil derived from "Septic" box removal was added to the stockpile on the construction site. The stockpile will have a silt fence surrounding it and either tarping or seeding once stockpiling is complete. Roughly half of the aeration core material has been relocated to the nearby placement location. Odors are very potent in the aeration pile location and aeration stockpile area. A PID peak reading 12.7 ppm (Likely due to humidity).

Remarks: Very high humidity and heavy fog; PID not working properly even with hydrophobic filter. Some rain water accumulation from the previous storm event remains in the construction area. PID is calibrated every morning within the JCS construction trailer with Isobutylene (100 ppm). Trevor from Woodard and Curran recommended using a newer model such as the MiniRAE 3000, as it is less sensitive to moisture. Large boulders (4' dia.) were encountered during the grading activities. These will be segregated and stockpiled in the construction area until removed from site.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato **Reviewed By:**
Date:

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Photo 1: Septic-box trenching for relocation. Temporary PVC attached to broken off end. Surrounding water body assumed to be municipal discharge.

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Photo 2: Shaping layer soil stockpile in back of parking lot. Cover material stockpile next to it (blue tarping), shaping material will be covered with blue tarping, and anchored with sandbags.

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Photo 3: Grading of construction site. Shaping layer soil gathered to the right is moved to Photo 2 location.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sun, slight wind** **Humidity**

Date: July 31, 2017 **Time: 0700** High Med Low

Temp: 70-80 °F

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G, Trump Construction, GZA Environmental, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Club House

Activities included: PDA Test Pile Driving, Shaping layer stockpiling in construction area; Asphalt stockpiling away from backfill materials; stockpiling of aeration cores with controls and removal of septic box.

Site Work Progress: Shaping layer on the eastern bounds of the construction site was stockpiled as depicted in Photo # 4. Soil in this area had trace amounts of construction material such as rebar, blasting rope/materials and scrap metal. These types of materials were previously noted in a meeting from July 17, 2017 that they may be encountered. A water tight roll off was ordered to store any municipal solid waste that may be encountered. The shaping layer stockpile was spread-out (lowered) so as not to exceed the height of the construction fence and to minimize to migration of sediments that could potentially be transported by high winds.

PDA test piles were installed to a depth of 70'. Steel beams were roughly 40' length wise and were welded throughout the interlocking joints. In-between welds, the breathing zone area was scanned with a PID MiniRAE 2000 showing 0.0 ppm for all piles. For additional safety, a MAXX AIR PRO portable fan was set up as an engineering control to vent any gases arising from the piles.

Leftover asphalt from new electrical conduit trenching activities was stockpiled from stockpiled soil. Asphalt is being temporary staged prior to off-site disposal.

Aeration core stockpiling continued with about half of the pile remaining. Some odors were detected but a scan on the area with the PID/gas detectors indicated no sustained readings. The PID MiniRAE 2000 showed 0.0 ppm. Test Drive Piling began with gas monitoring and engineering controls throughout the process.

Remarks: Low humidity; PID working properly. PID readings of about 0.7 ppm were encountered during disturbance of the shaping layer with construction debris around 13:50 to 14:00. PID readings were not detected throughout the day. A newer model such as the MiniRAE 3000 was proposed to be ordered for better PID readings. Gas monitoring indicated that oxygen sporadically increased to 23.0% (up from 20.9%).

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

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Observed By: John Fortunato

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Photo 1: Temporary Asphalt Stockpile location (~3 yards of Asphalt).

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Photo 2: Electrical conduit next to Septic-Box location (4" dia. PVC 40 Piping).

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Photo 3: PDA Test Pile Driving setup (P-46 Pile). Fan placed next to welder for H&S.

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Photo 4: Co-mingled (Shaping and Cover soil) on-site stockpile location.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU (T circled)

Weather: Sun, slight wind

Humidity High Med Low (Med circled)

Date: August 1, 2017 Time: 0700

Temp: 70-85 °F

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G, Trump Construction, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Club House

Activities included: Pile driving and welding of steel beams. Soil and erosion control plans for co-mingled soil stockpile on site. Aeration core stock piling

Site Work Progress:

Twelve piles were driven to a depth of about 35'. Of those twelve, seven were welded and driven to about 70'. Steel beams were roughly 40' length wise and were welded between the interlocking wedge plates of each beam and across the flange. Before welding, the piles were monitored at ground surface elevation (without ventilation fan) with a 4-gas MiniRAE Meter. If no detections were found above the Lower Explosive Limit (LEL) for methane gas (determined by OSHA), welding was deemed safe and a Maxx Air Pro industrial fan was placed next to the base of the beam and turned on for additional safety. Industrial fire safety equipment (fire extinguisher) is present near driving piles.

A silt fence was installed around the co-mingled soil stockpile and trenched (6" of fence in the ground). Tarping/seeding is proposed to be placed on top of the pile within the week.

Aeration core stockpiling continued. About of 1/3 of the pile remains.

Remarks: PID hits were detected during marking activities (spray paint). Gas meter detections were found for carbon monoxide (32 ppm peak) during welding activities (attributed to exhaust fumes from the welder itself). Oxygen content was found to increase to 21.4% (up from 20.9%) from 12:00 to 13:00.

Site Photographs: Yes (Yes circled) No

Additional Action Required by Project Mgr. or Eng.:

YES NO (NO circled)

Observed By: John Fortunato

Reviewed By:
Date:

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Photo 1: Air monitoring setup during pile driving.

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Photo 2 : Location of gas monitoring before welding (fan not turned on).

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Photo 3: Silt fence for co-mingled stockpile (trenched in 6").

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sun, slightly cloudy** **Humidity**

Date: August 2, 2017 Time: 0700 **Temp: 70-85 °F** High Med Low

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G, Trump Construction, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Club House

Activities included: Pile driving and welding of steel beams. Aeration core stock piling.

Site Work Progress:

Twelve piles were driven to a depth of about 35'. Of those twelve, seven were welded and driven to about 70'. Steel beams were roughly 40' length wise and were welded between the interlocking wedge plates of each beam and across the flange. Before welding, the piles were monitored with the four-gas meter as per protocol. The ventilation fan was not in use during the monitoring. During welding activities that fan was utilized for an added measure of safety.The 4-gas MiniRAE Meter was mounted to a PVC pipe and placed next to the pile during all welding and driving. Industrial fire safety equipment (fire extinguisher) is present near driving piles.

Remarks: Grindings and cuttings from beams tended to hit the 4-gas monitor. To protect the instrument, the meter was placed in a protected position with the tubing extending into the pile hole. The gas monitor was then observed from a safe distance with a set of binoculars. Hydrogen sulfide and LEL were found in low concentrations briefly when grindings hit the monitor of 0.8 ppm and 2% (Not high enough to trigger alarm systems).

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato **Reviewed By:**
Date:

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Photo 1: Setup of fan, monitor, and fire extinguisher during all grinding and welding. (Note: Monitor mounted onto PVC joint. Construction tile was laid on top to protect the meter from welding sparks/cuttings).

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Photo 2: Gas monitor, fan, and fire extinguisher set up during pile driving. (Note; Fire extinguisher not shown in photo.)

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Sunny, slightly cloudy** **Humidity**

Date: August 3, 2017 Time: 0700 **Temp: 70-85** °F (High) Med Low

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G, Trump Construction, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Club House, Aeration core piling behind Hole 18

Activities included: Pile driving and welding of steel beams. Aeration core stock piling.

Site Work Progress:

Nine piles were driven to depth a depth of roughly 40' and four piles were driven to roughly 70'. Before welding, the piles were checked at the inlet (ground surface elevation) with a 4-gas MiniRAE Meter. If no alarms were triggered by the meter, an industrial fan was turned on, pointed towards the pile location, and welding was conducted. The meter alarm is triggered if concentrations of the carbon monoxide, hydrogen sulfide, oxygen, and methane are above OSHA exposure limits. The 4-gas MiniRAE Meter was mounted to a PVC pipe and placed next to the pile during all welding and driving. A piece of construction debris was laid on top of the meter to prevent damage from welding activities. A fire extinguisher was present near driving piles.

Aeration core stockpile relocation was completed and grass seeding was placed over the old stockpile location. The new stockpile location (Behind Hole 18) was roughly 8' high and 100' in length.

Small asphalt pile still remains on-site, bulk majority was disposed of off-site when the asphalt was originally broken up.

Remarks: No alarms were triggered with the exception of carbon monoxide early in the day. Closer investigation of OSHA Permissible Exposure Limits (PEL) indicated that 200 ppm was the recommended PEL for carbon monoxide. Inspection of the meter determined that the PEL was actually set to the Time Weighted Average (TWA) of 35 ppm. The 4-gas meter alarm was thus changed to the correct 200 ppm alarm limit for carbon monoxide. No alarm triggers occurred after this. Hydrogen sulfide was detected at a peak 1.2 ppm during the pile driving, below all OSHA exposure limits.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato **Reviewed By:**
Date:

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Photo 1: Setup of fan, monitor, and fire extinguisher during all grinding and welding. Same setup for driving without

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industrial fan. (Note: Monitor mounted onto PVC joint. Construction debris laid on top to avoid damage to 4-gas Meter.)

Photo 2: Form Aeration Core location. (Note: Grass seeding applied).

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Photo 3: Completed aeration core stockpile behind Hole 18. (Note: Non-playing).

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: Thunderstorms, Sunny & slightly cloudy** **Humidity**

Date: August 4, 2017 Time: 0700 **Temp: 70-85** °F (High) Med Low

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Club House

Activities included: Pile driving and welding of steel beams.

Site Work Progress:

Nine piles were driven to their completion depths of roughly 70'. Before welding, the piles were checked at the inlet (ground surface elevation) with a 4-gas MiniRAE Meter. The 4-gas MiniRAE Meter was mounted to a PVC pipe and placed next to the pile during welding and pile driving. The 4-gas MiniRAE Meter was calibrated in the field successfully. A piece of construction debris was placed on top of the meter to prevent damage from welding activities. A fire extinguisher was present near pile driving and welding activities. The meter alarm is triggered if concentrations of the carbon monoxide, hydrogen sulfide, oxygen, and methane are above OSHA exposure limits; the alarm was not triggered for these four gases during today's activities. Since no alarms were triggered by the meter, an explosion-proof? industrial fan was turned on, pointed toward the pile location, and welding was conducted.

Approximately xx tons (truckloads?) of cover material was excavated and transported to its dedicated stockpile area. Approximately yy tons (truckloads?) of shaping material was excavated and transported to its dedicated stockpile area.

Remarks: Thunderstorms occurred early in the morning in the morning from 7:00 to 9:30, no piles were driven during this time. After the thunderstorms passed, conditions were sunny with some clouds. Large pools of water (from the storm event) remained on site. Silt fencing was inspected for the cover and shaping material stockpiles and the perimeter of the construction site with no soil visibly penetrating the haybale barriers.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato **Reviewed By:**
Date:

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Photo 1: Piles driven (water pools from morning storm event)

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Photo 2: Silt fence around on-site co-mingled stockpile (no soil escaping barrier).

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Rain, light to heavy** **Humidity**

Date: August 7, 2017 Time: 0700 **Temp: 70 °F** High Med Low

Name of Project: Trump Golf Links – Ferry Point Park Municipality: Bronx, NY Job No: 17002426A

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams

Site Work Progress:

Four piles were driven to their completion depths of approximately 75 feet, three piles were driven to their intermediate depths of approximately 40 feet, and six completed pilings were cut to grade by the welder. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas MiniRAE Meter. The 4-gas MiniRAE Meter was mounted to a PVC pipe and placed next to the pile during welding and pile driving. A piece of construction debris was placed on top of the meter to prevent damage from welding activities. A fire extinguisher was present near pile driving and welding activities and a fan was turned on, aimed at the active piling. The meter alarms is triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are above OSHA exposure limits; the alarm was not triggered for these four gases during today's activities.

Remarks: Rain was light to heavy for this workday, and site activities (including pile driving and cutting) concluded at 1400. Silt fencing and haybales were observed for the stockpiles and the perimeter of the construction site with no soil visibly penetrating the barriers.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Don Bowman Donald Bowman

Reviewed By:
Date:

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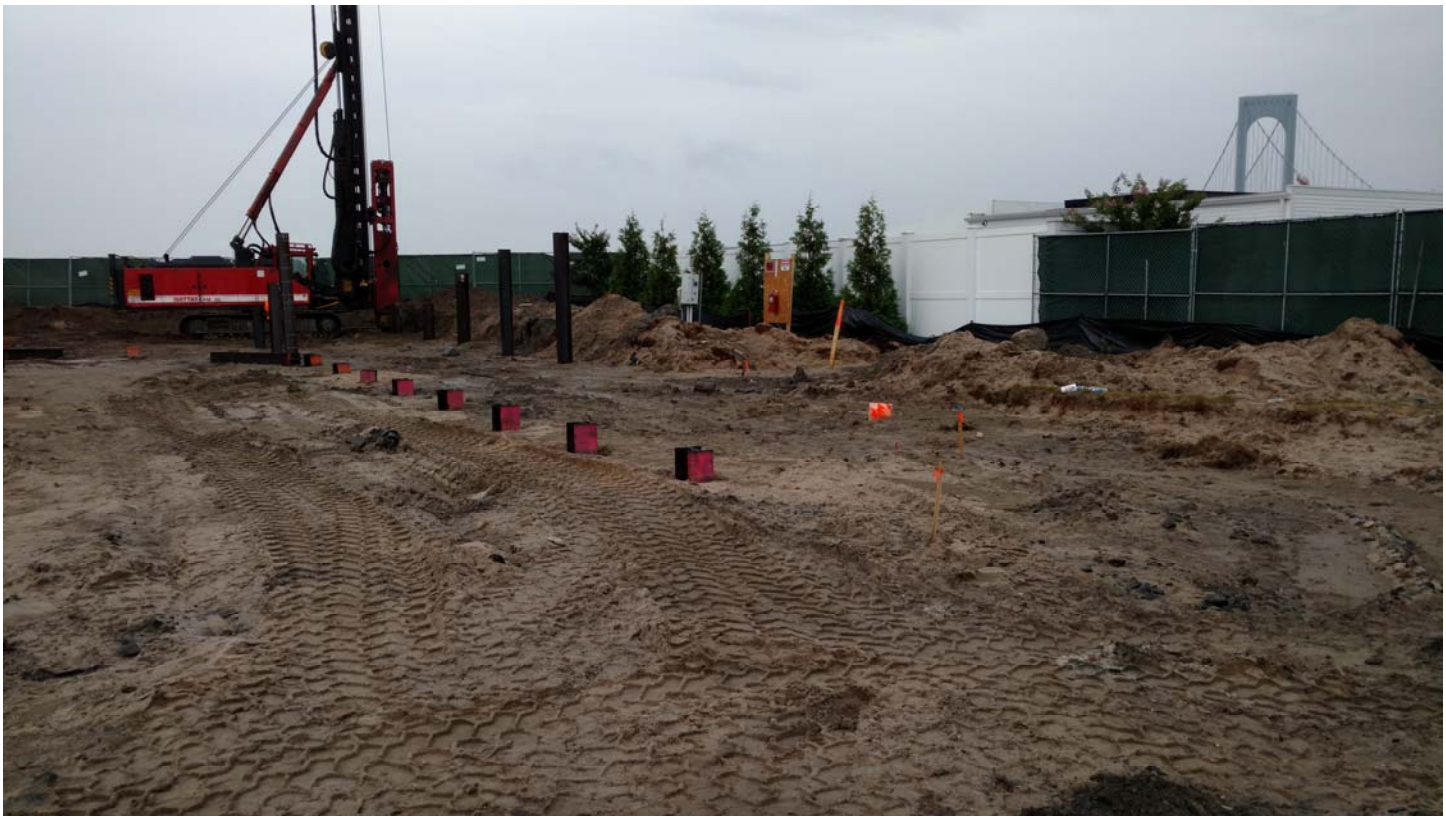

View of site at conclusion of workday showing piles driven (background) on 08/07/2017

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU (T circled)

Weather: Overcast, mostly cloudy

Humidity High Med Low (High circled)

Date: August 8, 2017 Time: 0700

Temp: 67 °F

Name of Project: Trump Golf Links – Ferry Point Park Municipality: Bronx, NY Job No: 17002426A

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams

Site Work Progress:

11 piles were driven to their completion depths of approximately 75 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas MiniRAE Meter. The 4-gas MiniRAE Meter was mounted to a PVC pipe and placed next to the pile during welding and pile driving. A piece of construction debris was placed on top of the meter to prevent damage from welding activities. A fire extinguisher was present near pile driving and welding activities and a fan was turned on, aimed at the active piling. The meter alarms is triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are above OSHA exposure limits; the alarm was not triggered for these four gases during today's activities.

Remarks: Site activities (including pile driving and cutting) concluded at 1630. Silt fencing and haybales were observed for the stockpiles and the perimeter of the construction site with no soil visibly penetrating the barriers.

Site Photographs: Yes (Yes circled) No

Additional Action Required by Project Mgr. or Eng.:

YES NO (NO circled)

Observed By: Eric Sergent

Reviewed By: Donald Bowman
Date: 08/09/2017

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View #1 of site showing piles driven on 08/08/2017

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View #2 of site showing piles driven on 08/08/2017

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny and slightly cloudy** **Humidity**

Date: August 9, 2017 Time: 0700 High Med Low

Temp: 70 - 80 °F

Name of Project: Trump Golf Links – Ferry Point Park Municipality: Bronx, NY Job No: 17002426A

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams

Site Work Progress:

Seven piles were driven to their completion depths of approximately 75 feet and three completed pilings were cut to grade by the welder. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter II. The 4-gas Q RAE II Meter was mounted to a PVC pipe and placed next to the pile during welding and pile driving. A piece of construction debris was placed on top of the meter to prevent damage from welding activities. A fire extinguisher was present near pile driving and welding activities and a fan was turned on, aimed at the active piling. The meter alarms is set to trigger if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are above OSHA exposure limits; the alarm was not triggered for these four gases or on the PID during today's activities.

Remarks: The Q RAE II gas meter and he MiniRAE 2000 PID were calibrated and used prior to welding and pile driving as an added measure of safety. A new Q RAE III gas meter was delivered from Pine Environmental LLC and switched with the old Q RAE II meter at 14:30. The new meter was calibrated on site and placed with the same setup as the Q RAE II (PVC joint mounted with cover for protection).

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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View of monitor setup while Q RAE II was switched with Q RAE III and calibrated (0.0 ppm on PID in PVC pipe).

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny, semi-cloudy** **Humidity**

Date: August 11, 2017 Time: 0700 – 17:00 High Med Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park Municipality: Bronx, NY Job No: 17002426A

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams

Site Work Progress:

Ten piles were driven to their completion depths of approximately 75 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. The 4-gas Q RAE III Meter was used to scan the piles prior to welding and placed next to the pile if gas concentrations didn`t trigger any alarms. A piece of construction debris was placed on top of the meter to prevent damage from welding activities. A fire extinguisher was present near pile driving and welding activities and a fan was used to ventilate the area during welding/driving. The meter alarms is triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are above OSHA exposure limits; the alarm was not triggered for these four gases or on the PID during today's activities.

Remarks: The survey markings for pile P-213 couldn`t be located, measurements were estimated by Byan`s Quality Plus personnel. No utilities were hit during the driving. Piles that were cut to grade by the welder were stockpiled next to the asphalt stockpile location.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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View of monitor setup with Q RAE III 4-gas meter.

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Steel beam cuts stockpile location (next to asphalt stockpile).

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny, cloudy later in day** **Humidity**

Date: August 14, 2017 Time: 0700 – 17:00 High Med Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park Municipality: Bronx, NY Job No: 17002426A

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete perimeter preparation

Site Work Progress:

Ten piles were driven to their completion depths of approximately 75 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. A piece of construction debris was placed on top of the meter to prevent damage from welding activities. A fire extinguisher was present near pile driving and welding activities and a fan was turned on, aimed at the active piling during welding. The meter alarms are triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are above OSHA exposure limits. The alarm was triggered for pile P-155, with 51% LEL for methane towards the end of the work day. This pile was driven down to roughly 37' and no welding was done on it. The pile was labeled "CAUTION METHANE" and welders were informed not to work on it. The pile will be rescanned with the 4-gas meter before any further work resumes. Work will only be allowed if safe conditions are re-established.

Remarks: A water line leading into the temporary clubhouse building was cracked during trenching for new clubhouse concrete perimeter. Water was determined to be clean municipal water which was pumped onto a grassy area next to the temporary clubhouse on-site. The leak has been fixed.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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View of Pile Driving progress and concrete perimeter setup.

Water pipe leakage going into temporary clubhouse.

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Pile P-155 detected for methane and labeled with CAUTION. No welding was done, the pile will be rescanned following day.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny and slightly cloudy, Rainy later in day** **Humidity**

Date: August 15, 2017 Time: 0700 – 16:45 High Med Low

Temp: 70 - 80 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation

Site Work Progress:

Two piles were driven to their completion depths of approximately 75 feet, ten piles were cut to grade level, and 2 piles were driven halfway to the completion depth of approximately 37'. Before welding/cutting, the piles were monitored at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. Welding is not permitted when combustible gases are present. As an added measure of safety, any space between the pile and the surrounding soils was filled and foot-tamped to eliminate any open pathways. In addition—as an engineering control, the fan was used to ventilate the immediate area and to dissipate any potential vapors. A fire extinguisher was also present. The meter alarms are set to trigger if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are measured above OSHA exposure limits. At two pile locations, the meter was triggered for LEL methane at pile P-155 (51%) and P-154 (13%). The space between the piles were filled with surrounding co-mingled soil and the industrial fan was used to ventilate the work zone. No LEL (0%) was detected after filling and ventilation. A PID MiniRAE 2000 is being used as backup to the 4-gas meter.

Remarks: The JUNTAN pile driver developed minor hydraulic leaks which led to a stoppage of work until the problem was fixed. Leaking hydraulic fluid was captured in a 5-gallon bucket and stored on-site. The hydraulic leak was quickly fixed, however rain later in the day prevented welding from resuming.

The asphalt and construction debris stockpiles were loaded on to a disposal truck and transported off-site to a disposal facility. No leftover debris was observed on the former stockpile soil location.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato **Reviewed By:**

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Pile P-155 covered with surrounding co-mingled soil (0% LEL at inlet).

Maintenance setup of JUNTAN pile driver due to minor hydraulic leak.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny and slightly cloudy, Rainy later in day** **Humidity**

Date: August 16, 2017 Time: 0700 – 17:00 High Med Low

Temp: 70 - 80 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation

Site Work Progress:

11 piles were driven to their completion depths of approximately 75 feet and 2 piles were driven to halfway depth of approximately 37'. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. Although no gas detections were recorded, an industrial fan was used to ventilate the work zone. A fire extinguisher was also present near pile driving and welding activities. The meter alarms are set to trigger if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are measured above OSHA exposure limits. The meter was not triggered for any gases during the course of the work day. A PID MiniRAE 2000 is being used as backup to the 4-gas meter.

Remarks:

Boulders roughly 3-4' in diameter were encountered at pile P-95. An excavator was used to remove the boulders which were approximately four feet below grade. No municipal solid waste was encountered; trace amounts of construction debris was observed in the shaping soil. Debris is being stockpiled for proper disposal.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato **Reviewed By:**
Date:

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Pile driving environmental monitoring setup.

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Large boulders from P-95 pile, trace construction debris mixed.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Sunny and slightly cloudy** **Humidity**

Date: August 16, 2017 Time: 0700 – 17:00 High (Med) Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park Municipality: Bronx, NY Job No: 17002426A

Site Contractors: Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation, soil and erosion inspection

Site Work Progress:

10 piles were driven to their completion depths of approximately 70 feet and 2 piles were driven to halfway completion depth of roughly 37'. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. A piece of construction debris was placed on top of the meter to prevent damage from welding activities. A fire extinguisher was present near pile driving and welding activities and a fan was turned on, aimed at the active piling during welding. The meter alarms are triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are above OSHA exposure limits; the meter was triggered for pile P-80 for methane LEL at 99%. The pile was at it`s completion depth of 70 feet when the gas was detected. An odor was present at the pile and surrounding co-mingled soil was filled into the inlet. The inlet was then rescanned reading 0% for methane LEL. Later in the day the pile was rescanned showing 5% LEL (below the alarm trigger) and was labeled to have the fan turned on prior to cutting. The pile was not cut today. A PID MiniRAE 2000 was on site as backup if the 4-gas meter wasn`t working properly.

Remarks: Boulders roughly 3-4' in diameter were hit on pile P-80. An excavator was brought in and the boulders were dug out to roughly 4' below ground surface. No municipal solid waste was encountered; trace amounts of construction debris was observed in the shaping soil.

The area where leakage was seen on August 15 from the JUNTAN pile driver was inspected. Some visual staining was present (roughly 5 gallons of soil). JCS agreed to have the soil placed into buckets and set aside until later disposed of.

JCS was notified to hydro seed the on-site co-mingled soil stockpile. Currently the Triple-G is scheduling the hydro seeder to arrive on-site as soon as possible.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato **Reviewed By:**
Date:

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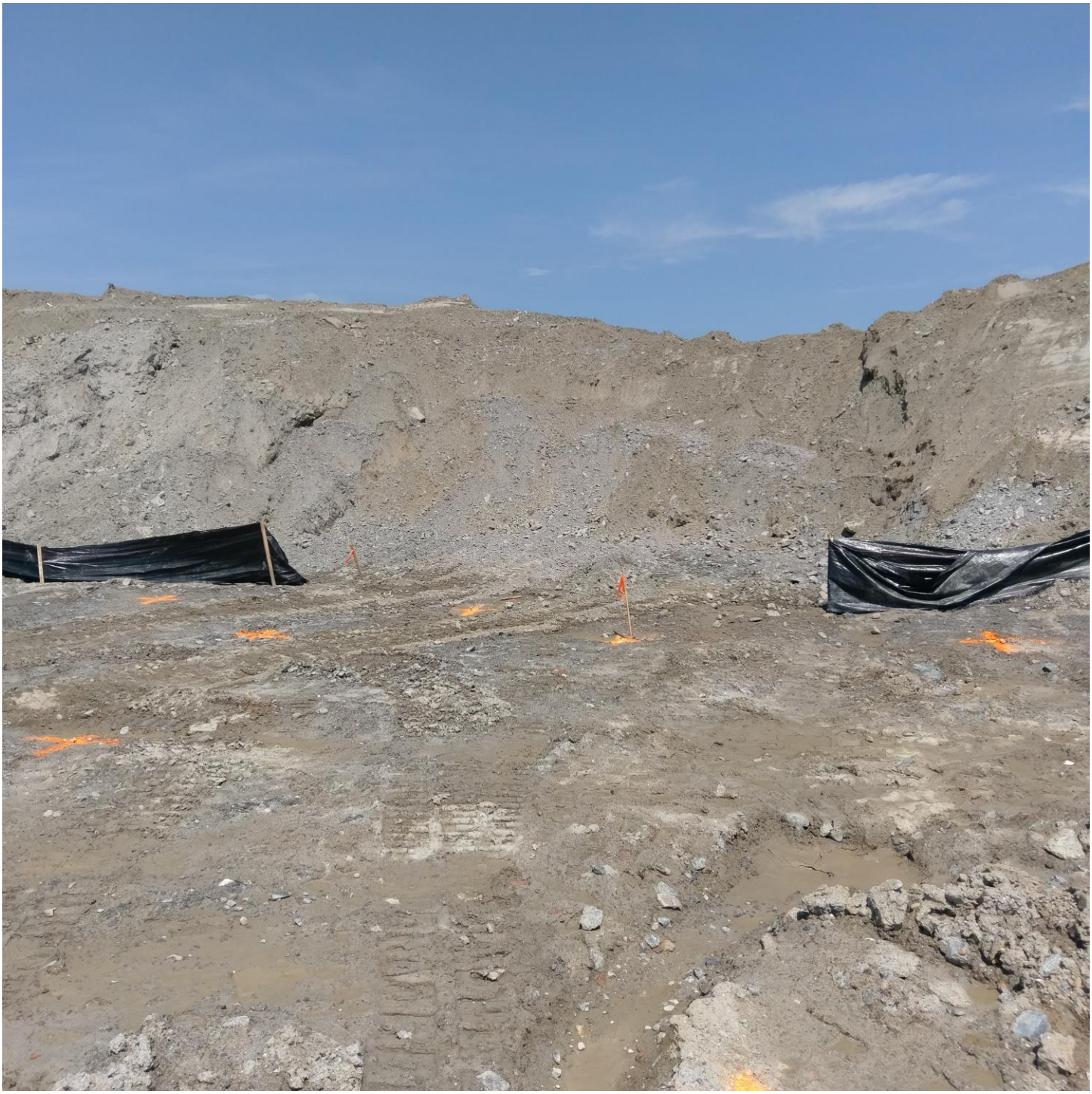

Co-mingled stockpile soil moved for pile driving (silt fence temporary moved, stockpile will be seeded).

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Minor soil staining from August 15 pile driving leakage.

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Boulders from P-80 pile, odor and methane reading after completion depth (~70').

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather:** Cloudy with Heavy Rain **Wind:** **Humidity**

Date: 8/18/17 **Time: 7:00** **Temp:** **82** °F High Med Low

Name of Project: Trump Golf Links-Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002624A**

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for the proposed new Clubhouse

Activities Included: Pile driving and welding of steel beams

Site Work Progress:

8 piles were driven to their completion depths of approximately 75 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas MiniRAE meter. The 4-gas MiniRAE meter was mounted to a PVC pipe and placed next to the pile during welding and pile driving. A protective cover was placed over top of the meter to prevent damage from welding activities. A fire extinguisher was present near pile driving and welding activites, and a fan was turned on, and aimed at the active piling. The meter alarms are triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen, and methane (as Lower Explosive Limit) are above OSHA exposure limits. There were no alarms during today's efforts, and no readings were above ambient air levels.

Remarks:

Efforts for the day began at 0700, and site activities were concluded at 1500.

Site Photographs: Yes No

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Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date: 08/18/2017

View #1 of site showing piles driven on 08/18/2017

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny** **Wind:** **Humidity**

Date: 8/21/17 **Time: 7:00** **Temp: 88** °F High Med Low

Name of Project: Trump Golf Links-Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002624A**

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for the proposed new Clubhouse

Activities Included: Pile driving and welding of steel beams

Site Work Progress:

12 ½ piles were driven to their completion depths of approximately 75 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas MiniRAE meter. The 4-gas MiniRAE meter was mounted to a PVC pipe and placed next to the pile during welding and pile driving. A protective cover was placed over top of the meter to prevent damage from welding activities. A fire extinguisher was present near pile driving and welding activites, and a fan was turned on, and aimed at the active piling. The meter alarms are triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen, and methane (as Lower Explosive Limit) are above OSHA exposure limits. There were no alarms during today's efforts, and no readings were above ambient air levels.

Remarks:

Efforts for the day began at 0700, and site activities were concluded at 1700.

Site Photographs: Yes No

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Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date: 08/21/2017

View #1 of site showing piles driven on 08/18/2017

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny and Cloudy** **Wind: Medium** **Humidity**

Date: August 22, 2017 Time: 0700 – 15:30 **Temp: 70 - 95** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation, Soil and erosion inspection

Site Work Progress:

9 piles were driven to their completion depths of approximately 70 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. No alarm triggers were activated at any time and all safety measures (ventilation fan, fire extinguisher etc) were in-place during the operations.

Remarks: Piles P-110 and P-105 had methane's level detected of 5% and 6% (below alarm limit). The inlets of the piles were covered in surrounding co-mingled soil for safety. No readings were detected after piles were covered.

Areas were trenched roughly 10 ft. deeper for certain piles per specs for concrete slabs. No municipal solid waste observed.

Currently the co-mingled pile is now scheduled to be tarped and anchored with sandbags rather than hydro seeding. Tarping is expected to take place on August 23, 2017. Storm water inlet drains were covered with sediment erosion catch basins all around the parking lot construction area.

Soils previously stained with oil from the pile driver leakage was disposed of properly.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Piles to completion depth (~70').

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Storm water drain inlet cover.

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Trench for concrete base slab (No municipal solid waste observed).

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny and Cloudy** **Wind: Medium** **Humidity**

Date: August 23, 2017 Time: 0700 – 16:30 High Med Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation, Soil and erosion inspection

Site Work Progress:

10 piles were driven to their completion depths of approximately 70 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. The meter was not triggered for any alarms over OSHA standards.

Remarks: Some of the tarping from the parking lot stockpiles was slightly displaced from the high winds/rain in yesterday's storm event. There was no visual evidence that any of the soils had been disturbed or had been blown or washed away. The JCS foreman was informed that the tarping needed to be re-secured. The tarps were replaced over the stockpiles and additional haybales were staged on the downslope side of the stockpile.

Pile P-73 had methane's level detected 3% (below alarm limit). Shortly after measuring P-73, a reading was not observed (0%). No action was needed.

The co-mingled pile was tarped over and anchored with sandbags rather than hydro seeded.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

Customer Loyalty *through* Client Satisfaction

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Parking lot shaping and cover layer stockpiles (Tarping unanchored after storm event, stockpile recovered in the morning).

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Co-mingled on-site soil stockpile covered with tarping and anchored with sandbags.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Sunny and Cloudy** **Wind: Medium** **Humidity**

Date: August 24, 2017 Time: 0700 – 17:00 High (Med) Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation, Soil and erosion inspection

Site Work Progress:

11 piles were driven to their completion depths of approximately 70 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. The meter was not triggered for any alarms over OSHA standards. A PID MiniRAE 2000 was on site as backup.

Remarks: The silt fence on the construction side of the co-mingled stockpile was knocked over during pile driving set up. The foreman was notified and a new silt fence will be put in.

An obstruction (large boulders) was hit on P-59. Excavator called in to move boulders and continue driving.

No methane readings were detected throughout the day.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By:
Date:

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Silt fencing knocked over on construction side. New fencing to be put up tomorrow.

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Boulders hit on P-59 (roughly 4-5' dia.). No methane readings.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny** **Wind:** **Humidity**

Date: 8/25/17 **Time: 7:00** **Temp: 85** °F High Med Low

Name of Project: Trump Golf Links-Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002624A**

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for the proposed new Clubhouse

Activities Included: Pile driving and welding of steel beams

Site Work Progress:

9 piles were driven to their completion depths of approximately 75 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas MiniRAE meter.. The meter alarms are triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen, and methane (as Lower Explosive Limit) are above OSHA exposure limits. There were no alarms during today's efforts, and no readings were above ambient air levels.

Remarks:

Efforts for the day began at 0700, and site activities were concluded at 1500.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

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Observed By: Eric Sergent

Reviewed By:
Date: 08/25/2017

View #1 of site showing piles driven on 08/25/2017

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny** **Wind:** **Humidity**

Date: 8/28/17 **Time: 7:00** **Temp: 80** °F High Med Low

Name of Project: Trump Golf Links-Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002624A**

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for the proposed new Clubhouse

Activities Included: Pile driving and welding of steel beams

Site Work Progress:

12 piles were driven to their completion depths of approximately 75 feet, and 2 pile bottoms were driven to a depth of approximately 40 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas MiniRAE meter. The meter alarms are triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen, and methane (as Lower Explosive Limit) are above OSHA exposure limits. There were no alarms during today's efforts, and no readings were above ambient air levels.

Remarks:

Efforts for the day began at 0700, and site activities were concluded at 1530.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

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YES NO

Observed By: Eric Sergent

Reviewed By:
Date: 08/28/2017

View #1 of site showing piles driven on 08/28/2017

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy and Rainy** **Wind: Medium** **Humidity**

Date: August 29, 2017 Time: 0700 – 1445 **Temp: 70 - 80** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation

Site Work Progress:

2 piles were driven to their completion depths of approximately 75 feet, 6 piles were driven halfway to the completion depth of roughly 37'. Two (2) piles were driven to roughly 82'. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. The meter was not triggered for any alarms over OSHA standards. A PID MiniRAE 2000 is used as a backup if the 4-gas meter.

Remarks: The silt fence on the construction side of the co-mingled stockpile was taken down to make room for pile driving towards the northern bounds of the pile area. The silt fence will be re-established immediately following the pile-driving; despite rainy conditions, no sediment was observed to migrate or slump.

Rain towards the end of the day prevented welding, bottoms (40' depth piles) were driven instead.

No methane readings were detected throughout the day.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Boulders hit on P-59 (roughly 4-5' dia.). No methane readings. Silt fence to be re-established.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny/cloudy** **Wind: Medium** **Humidity** High Med Low

Date: August 30, 2017 Time: 0700 – 1530 **Temp: 70 - 78** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation

Site Work Progress:

9 piles were driven to their completion depths of approximately 75 feet and 1 pile was driven halfway to the completion depth of approximately 37'. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. The meter was triggered for one (1) pile over OSHA Lower Explosive Limit (LEL) standards of 10%. A PID MiniRAE2000 is used as a backup.

Remarks: Pile P-33 was the only pile to trigger an alarm for methane (at 23%). The alarm sounded at the pile completion depth of 70'. The gap between the pile and the surrounding soil was filled with co-mingled soil material to eliminate a gas migration pathway. No readings (0%) were detected after the space was closed. The fan was moved closer to the pile to increase ventilation in the immediate vicinity of the work zone.

Pile P-47 hit refusal at 50 feet below grade. A sister pile (P-47S) was installed immediately to the southeast. P-47S also hit refusal at 50 feet below grade.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Sister pile P-47S (Right pile) was installed one foot southeast of P-47.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Sunny/cloudy** **Wind: Medium** **Humidity** High (Med) Low

Date: August 31, 2017 Time: 0700 – 1530 **Temp: 70 - 80** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation

Site Work Progress:

7 piles were driven to their completion depths of approximately 75 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. The meter was triggered for one (1) pile over OSHA Lower Explosive Limit (LEL) standards of 10%. Mitigation measures were taken to eliminate the vapor migration pathway. A PID MiniRAE2000 was used as a backup to the 4-gas meter.

Remarks: Pile P-38 was the only pile to trigger the alarm limits for methane at completion depth (~70'). A reading of 17% of the LEL was measured. The void space between the pile and surrounding soil was filled with co-mingled soil. No readings (0%) were detected after the gap was closed. The fan was re-oriented to maximize ventilation.

Additional pile driving beyond the 80 foot level--remains pending at the piles that will support the future access ramp to the clubhouse located on the north side of the building. The engineer of record will determine if further driving is necessary. When that decision is made, appropriate measures will be enacted.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By:
Date:

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Pile P-38 (Right pile) covered with soil at the inlet.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: Sunny/cloudy** **Wind: Medium** **Humidity** High Med (Low)

Date: September 1, 2017 **Time: 0700 – 1700** **Temp: 60 - 85** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation

Site Work Progress:

8 piles were driven to their completion depths of approximately 75 feet. Two (2) piles were driven to 82'. Three (3) piles were driven to 40'. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. The meter was triggered for one (1) pile over OSHA Lower Explosive Limit (LEL) standards for methane. Mitigation measures were taken before welding was allowed to continue. A PID MiniRAE2000 is used as a backup to the 4-gas meter.

Remarks:

Piles driven past 80' were located in the northern end of the clubhouse building for the proposed ramp for heavy vehicles. Cement that was poured yesterday August 31, 2017 has cured. Some soil from the co-mingled soil stockpile on-site was used to backfill the outer bounds of the cement.

Pile P-16 was found to have high levels of methane (91%) after being driven 40'. The industrial fan was turned on and pointed towards the pile. Soil cuttings were placed and tamped around the pile. No methane detections were recorded and work was allowed to proceed. The 4-gas meter was placed adjacent to the pile. The alarm was not triggered during welding.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By:
Date:

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Co-mingled soil from the construction area stockpile. Soil will be used as backfill around the southeastern bounds of the clubhouse.

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Pile driving at the proposed ramp for heavy vehicles at the clubhouse. Pile P-16 is shown loaded onto the pile driver.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU (SA circled)

Weather: Sunny, partially cloudy **Wind: Medium** **Humidity** High Med Low (Low circled)

Date: September 2, 2017 **Time: 0700 – 1700** **Temp: 60 - 70** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation

Site Work Progress:

8 piles were driven to their completion depths of approximately 75 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. The meter was not triggered for any alarms over OSHA standards.

Remarks:

Due to deflection, Pile P-16 was abandoned. A new sister pile is proposed to be placed near the original P-16 location and driven to completion once approved. Once this pile is completed, the only pile remaining to driven will be P-25.

No detections were found above ambient levels throughout the day.

Site Photographs: Yes (Yes circled) No

Additional Action Required by Project Mgr. or Eng.:

YES NO (NO circled)

Observed By: John Fortunato

Reviewed By:
Date:

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Pile driving progress on-site. Pile P-16 outlined in red.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny** **Wind: Medium** **Humidity**

Date: September 5, 2017 **Time: 0700 – 1430** High Med Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation

Site Work Progress:

3 piles were driven to their completion depths of approximately 70 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. The meter was not triggered for any alarms over OSHA standards.

Remarks:

Pile P-16 was abandoned due to deflection. Two sister piles located approximately 3' north and west of the original P-16 location were driven to completion depth. No gas detections were found above ambient levels throughout the day. Pile driving work is now complete.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Two sister piles located next to P-16.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny/Cloudy** **Wind: Low** **Humidity**

Date: September 11, 2017 **Time: 0700 – 1500** High Med Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Co-mingled on-site soil backfill, concrete base preparation

Site Work Progress:

Plywood forms and reinforcing bars were placed on the northern side of the new clubhouse. The forms are to be filled with concrete. Co-mingled soil was backfilled and compacted between the plywood forms and perimeter of the forms. Approximately 150 yd^3 of soil was backfilled from the co-mingled on-site pile. The parking lot stockpiles remain covered and untouched, however soils from the stockpile may be used on the clubhouse construction site if additional material is required.

Remarks:

A new 4-gas meter was ordered from Pine Environmental to replace the original meter whose sensors were beginning to wear. The new QRAE II delivered on-site had sensors that worked properly except for LEL. A new 4-gas meter will be delivered tomorrow.

Soil was periodically scanned throughout the day with a PID. The perimeter of the construction site was also scanned with PID throughout the day. No detections were found above ambient levels throughout the day from either the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
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Co-mingled soil stockpile backfill location.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny and Cloudy** **Wind: Low** **Humidity**

Date: September 12, 2017 **Time: 0700 – 1500** High Med Low

Temp: 70 - 80 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Co-mingled on-site soil backfill, concrete base preparation

Site Work Progress:

Plywood forms and reinforcing bars continue to be placed on the northern side of the clubhouse. Forms will be filled with concrete. Co-mingled soil was backfilled and compacted between the plywood forms and perimeter of the forms. Approximately 128 yd^3 of soil was backfilled from the co-mingled on-site pile. The parking lot stockpiles remains covered.

Remarks:

A new 4-gas meter was delivered to the site. The sensors on the new VRAE all worked properly.

Soil was periodically scanned throughout the day with the new 4 gas meter and the PID. The perimeter of the construction site was also scanned throughout the day. No detections were found above ambient levels throughout the day from either the PID nor 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Soil moved from co-mingled location to the side of building.

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View of the Co-mingled stockpile at end of day.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny and Cloudy** **Wind: Low** **Humidity**

Date: September 13, 2017 **Time: 0700 – 1500** **Temp: 70 - 85** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G, American Pumping Inc.

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Concrete base fill, environmental air monitoring

Site Work Progress:

Concrete was poured into wooden forms with reinforcing bars. Air was continuously monitored during all concrete pouring and soil movement activities. A 4-gas meter was placed near the temporary clubhouse and continuously monitored. The perimeter of the construction site was also scanned with a PID throughout the day.

Remarks:

No detections were found above ambient levels throughout the day from either the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Concrete subbase after pouring.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Cloudy** **Wind: Low** **Humidity**

Date: September 14, 2017 **Time: 0700 – 1500** High (Med) Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Footing concrete form removal, environmental air monitoring

Site Work Progress:

The contractor spent the day removing the concrete forms for the footings. Air was continuously monitored during all soil movement activities. A 4-gas meter was placed near the temporary clubhouse and continuously monitored. The perimeter of the construction site was also scanned with a PID throughout the day.

Remarks:

No detections were found above ambient levels throughout the day from either the PID or the 4-gas meter.

Site Photographs: Yes (No)

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Eric Sergent

Reviewed By:
Date:

Customer Loyalty *through* Client Satisfaction

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: Sunny and Cloudy** **Wind: Low** **Humidity**

Date: September 15, 2017 **Time: 0700 – 1430** **Temp: 70 - 85** °F (High) Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Concrete form removal, Co-mingled soil backfill, environmental air monitoring

Site Work Progress:

Wooden forms were removed from the concrete base and soil from the co-mingled stockpile area was used to backfill. Air was continuously monitored during all soil disturbance and movement activities. A 4-gas meter was placed near the temporary clubhouse and continuously monitored. The perimeter of the construction site was also scanned with a PID throughout the day. Roughly 130 yd^3 of co-mingled soil was backfilled.

Remarks:

No detections were found above ambient levels throughout the day from either the PID or the 4-gas meter.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By:
Date:

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Co-mingled soil backfill.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy** **Wind: Low** **Humidity**

Date: September 18, 2017 **Time: 0700 – 1530** High Med Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Footing concrete form removal, environmental air monitoring

Site Work Progress:

The contractor spent the day backfilling the areas between footings. Air was continuously monitored during all soil movement. A 4-gas meter was placed near the temporary clubhouse and continuously monitored. The perimeter of the construction site was also scanned with a PID throughout the day.

Remarks:

No detections were found above ambient levels throughout the day from either the PID nor 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date:

Customer Loyalty *through* Client Satisfaction

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Picture 1: Area between footings being backfilled and compacted using a Jumping Jack.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy** **Wind: Low** **Humidity** High Med Low

Date: September 19, 2017 **Time: 0700 – 1530** **Temp: 70 - 85** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Footing concrete form removal, environmental air monitoring

Site Work Progress:

The contractor spent the day backfilling the areas between footings. Air was continuously monitored during all soil movement. A 4-gas meter was placed near the temporary clubhouse and continuously monitored. The perimeter of the construction site was also scanned with a PID throughout the day.

Remarks:

No detections were found above ambient levels throughout the day from either the PID nor 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date:

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Picture 1: Area between footings being backfilled and compacted using a Jumping Jack.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny and Cloudy** **Wind: breezy** **Humidity**

Date: September 20, 2017 **Time: 0645 – 1530** High Med Low

Temp: 67 - 81 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Co-mingled soil backfill and compact, environmental air monitoring

Site Work Progress:

Co-mingled soil from the construction zone stockpile was placed around the concrete forms to raise the grade level. Compaction was performed via backhoe bucket, 'jumping-jack' compactors and with sled compactors.

Air monitoring was performed around the entire work zone multiple times during the course of the day.

Remarks:

No air monitoring detections were identified throughout the day from either the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Co-mingled soils being compacted with 'jumping jack' and sled compaction equipment.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Cloudy** **Wind: Low** **Humidity**

Date: September 21, 2017 **Time: 0700 – 1530** High (Med) Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Footing concrete form removal, environmental air monitoring

Site Work Progress:

The contractor spent the day backfilling the areas between footings. Air was continuously monitored during all soil movement. A 4-gas meter was placed near the temporary clubhouse and continuously monitored. The perimeter of the construction site was also scanned with a PID throughout the day.

Remarks:

No detections were found above ambient levels throughout the day from either the PID nor 4-gas meter.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Eric Sergent

Reviewed By:
Date:

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Picture 1: Area between footings being backfilled and compacted.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy** **Wind: Low** **Humidity**

Date: September 22, 2017 **Time: 0700 – 1500** High Med Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Backfill around footings, set forms for foundation walls, environmental air monitoring

Site Work Progress:

The contractor spent the day backfilling the areas between footings, and set concrete forms for foundation walls. Air was monitored during all soil movement activities. A 4-gas meter was placed near the temporary clubhouse and monitored. The perimeter of the construction site was also scanned with a PID throughout the day.

Remarks:

No detections were found above ambient levels throughout the day from either the PID nor 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy** **Wind: Low** **Humidity**

Date: September 25, 2017 **Time: 0700 – 1530** High Med Low

Temp: 70 -88 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Footing concrete form removal, soil compaction, environmental air monitoring

Site Work Progress:

There was minimum backfilling taking place in 2 small areas between the footings, contractor spent most of the day setting concrete forms for foundation walls on top of footings.

Inspected an excavation on the east side of the pond (behind maintenance building)/. The excavation had been opened by Trump Maintenance personnel to install an isolation a valve in the irrigation system. Shaping and cover material had been properly segregated into two piles- above lying sand and the below lying stone material.

Air was continuously monitored during all soil movement. A 4-gas meter was placed near the temporary clubhouse and continuously monitored. The perimeter of the construction site was also scanned with a PID throughout the day.

Remarks:

No detections were found above ambient levels throughout the day from either the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date:

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Picture 1: Area between footings being backfilled and compacted using a Jumping Jack

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Picture 1: Area between footings being backfilled and later compacted using a Jumping Jack.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy** **Wind: Low** **Humidity** High Med Low

Date: September 26, 2017 **Time: 0700 – 1530** **Temp: 72-88** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Footing concrete form removal, environmental air monitoring

Site Work Progress:

There was no backfilling taking place during the day, excess soil from around the perimeter of the building footprint was compiled into one area in the north corner of the site (east of job trailer), contractor spent most of the day setting concrete forms for foundation walls on top of footings. Air was continuously monitored during all soil movement activities. A 4-gas meter was placed near the temporary clubhouse and continuously monitored. The perimeter of the construction site was also scanned with a PID throughout the day.

Remarks:

No detections were found above ambient levels throughout the day from either the PID nor 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date:

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Picture 1: Excess soil pile.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy** **Wind: Low** **Humidity** High Med Low

Date: September 27, 2017 **Time: 0700 – 1500** **Temp: 68 - 88** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, Trimble Surveying, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse, Soil Stockpile Staging Area in Parking Lot

Activities included: Cutting & bending of re-enforcing bar, survey, movement of soils from parking lot staging area to the construction site, environmental air monitoring.

The excavation located behind the 7th green-which had been opened to install an isolation valve for the irrigation system-was properly backfilled. (No valve was installed as the location was determined to be infeasible).

Offsite: soil samples were collected at New York Recycling located at 475 Exterior Road Bronx, NY. Sample results will help determine whether the material is suitable of importation to the Ferry Point construction site.

Site Work Progress:

The contractor spent the day preparing re-enforcement bars in advance of an upcoming concrete pour.

Approximately 110 cubic yards of soil was taken from the soil stockpile in the parking lot and moved to three locations on the construction site. The material will be utilized to raise grade level on the construction site at some point in the near future.

Air monitoring was performed during the soil movement activities.

Remarks:

Air monitoring identified no detections above background levels throughout the day from either the PID nor 4-gas meter. Soil samples collected at New York Recycling were delivered to Hampton Clarke/Veritech labs.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo #1: Moving Soil from Parking Lot Stockpile to the Construction site

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy** **Wind: Low** **Humidity**

Date: September 27, 2017 **Time: 0700 – 1500** High Med Low

Temp: 68 - 88 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Offsite Work Area: Irrigation pipeline behind the 7th Green

Trump Links Maintenance personnel had opened an excavation behind the 7th Green during the week of September 20. The purpose of the excavation was to install a new isolation valve in the irrigation line so that sections of the golf course could be isolated in the event of and irrigation line leak. Total size of the excavation was approximately 8 feet long, 8 feet wide and 6 feet deep. Based on discussions with a contractor, no isolation valve was installed. The location was deemed to be infeasible. The excavated soils were segregated; cover material on the north side of the excavation; shaping material on the south side. No demarcation barrier or waste was observed. Excavation was covered with plywood sheets supported by 2inch x 10 inch planks.

Site Work Progress:

After determining that the location was not suitable for the installation of an isolation valve, Trump Maintenance personnel, backfilled the excavation. Material that had been segregated was placed back into the hole in the same stratigraphic sequence. Materials were compacted in lifts of approximately 1 foot each using a small backhoe. All excavated material was successfully replaced into the hole—leaving no excess material for disposal. The vegetative layer at the surface was restored to the extent practical. Maintenance personnel are expected to seed the area.

Remarks:

Air monitoring data collected from the open excavation and during the backfilling activities, recorded no detections above background.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo #1: Backfilling of small excavation area behind the 7th Green.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy** **Wind: Low** **Humidity** High Med Low

Date: September 27, 2017 **Time: 0700 – 1500** **Temp: 68 - 88** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Offsite Work Area: Offsite Shaping Layer Material Sampling and Investigation: New York Recycling, 475 Exterior Street, Bronx, NY

It is noted that this site was previously reviewed and approved (desktop level) by Woodard Curran and NYSDEC during the pre-closure phase of the project.

New York Recycling NYSDEC Permit # 03W87

Site Work Progress:

Soil sampling was conducted at New York Recycling located at 475 Exterior Street. Facility Manager Roger Freitas sectioned-off an approximately 2,500 cubic yard area from which the composite sample was collected. It is noted that the sample for VOC's was a discrete grab sample. Soils were screened with a PID with no indications of contamination. The soil pile was also inspected for signs of asphalt, slag, brick, concrete and other debris. No unauthorized debris was observed in the soil pile. A shovel was used to dig into the pile approximately 1 to 2 feet. Thereafter a dedicated trowel was used to collect representative point samples from approximately 12 locations. Samples were composited in a stainless steel bowl and troweled into the laboratory-supplied sample jars. Samples were placed on ice under chain of custody control.

Remarks:

Samples were delivered to Hampton Clarke Labs in Fairfield, NJ. Analyses to include all the parameters noted in "Table 1 Chemical Permit Limits Ferry Point" as provided by Woodard Curran.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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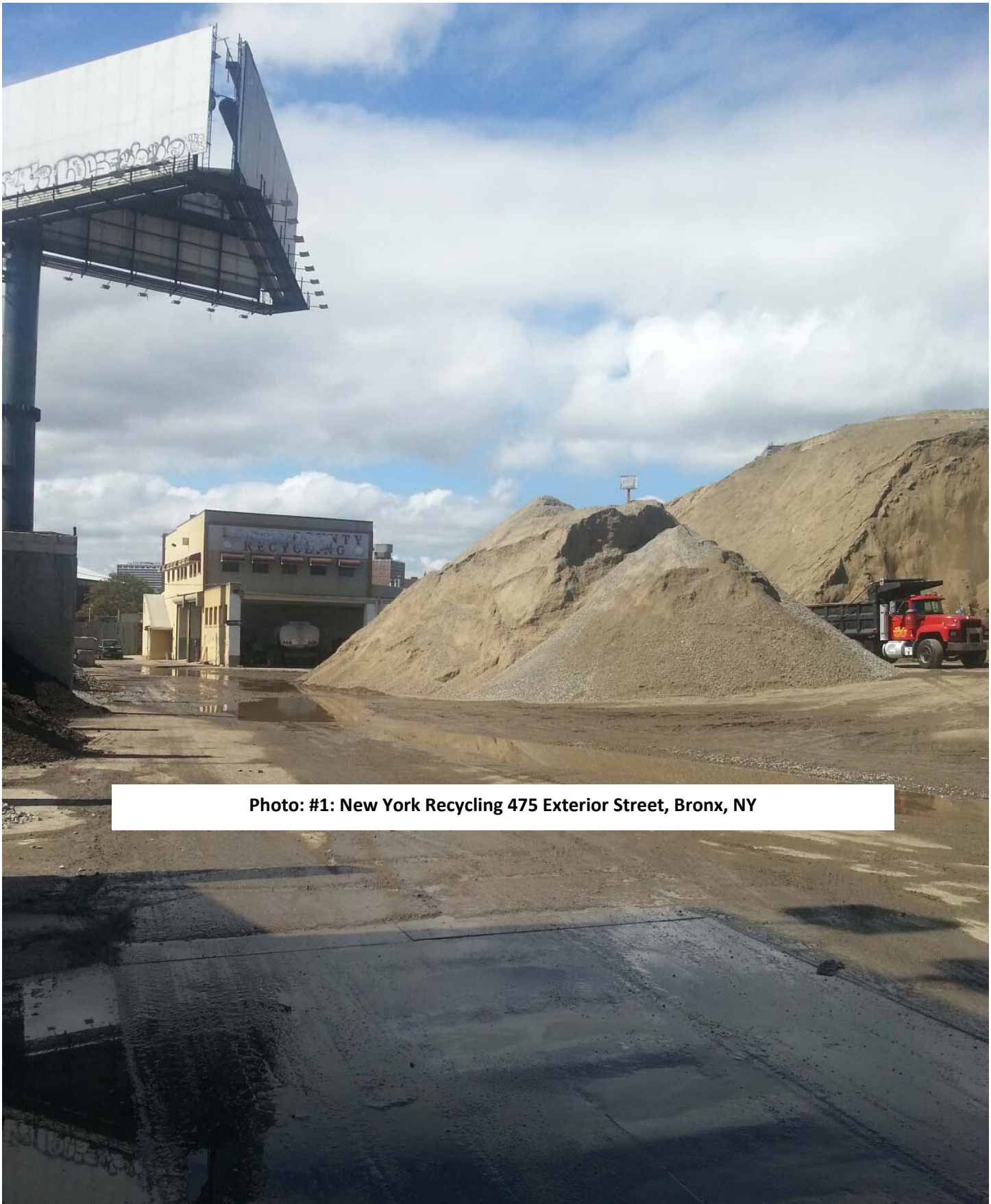

Photo: #1: New York Recycling 475 Exterior Street, Bronx, NY

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy** **Wind: Low** **Humidity** High Med Low

Date: September 27, 2017 **Time: 0700 – 1500** **Temp: 68 - 88** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Offsite Work Area: Offsite Shaping Layer Material Sampling and Investigation: New York Recycling, 475 Exterior Street, Bronx, NY

It is noted that this site was previously reviewed and approved (desktop level) by Woodard Curran and NYSDEC during the pre-closure phase of the project.

New York Recycling NYSDEC Permit # 03W87

Site Work Progress:

Soil sampling was conducted at New York Recycling located at 475 Exterior Street. Facility Manager Roger Freitas sectioned-off an approximately 2,500 cubic yard area from which the composite sample was collected. It is noted that the sample for VOC's was a discrete grab sample. Soils were screened with a PID with no indications of contamination. The soil pile was also inspected for signs of asphalt, slag, brick, concrete and other debris. No unauthorized debris was observed in the soil pile. A shovel was used to dig into the pile approximately 1 to 2 feet. Thereafter a dedicated trowel was used to collect representative point samples from approximately 12 locations. Samples were composited in a stainless steel bowl and troweled into the laboratory-supplied sample jars. Samples were placed on ice under chain of custody control.

Remarks:

Samples were delivered to Hampton Clarke Labs in Fairfield, NJ. Analyses to include all the parameters noted in "Table 1 Chemical Permit Limits Ferry Point" as provided by Woodard Curran.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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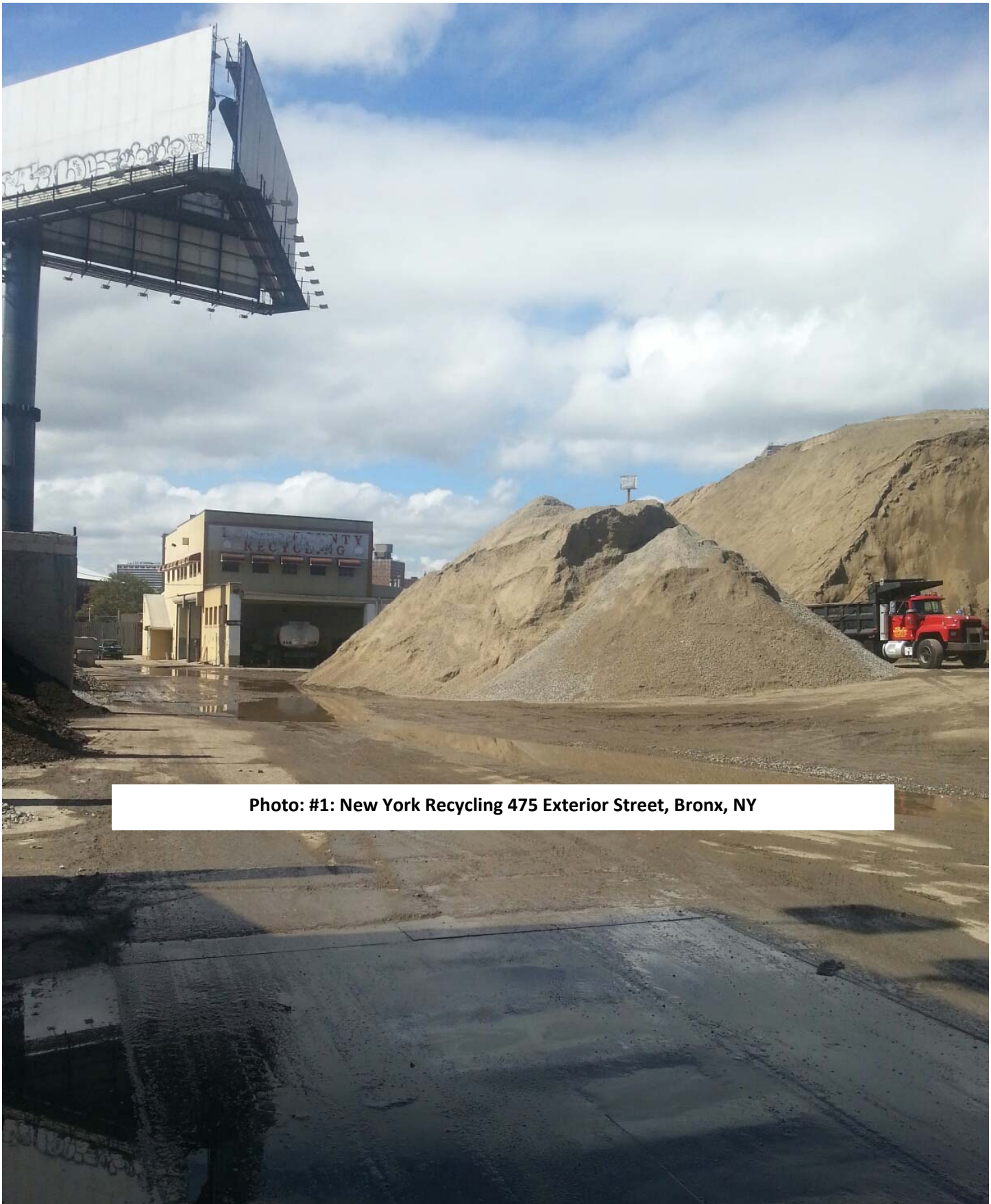

Photo: #1: New York Recycling 475 Exterior Street, Bronx, NY

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: Sunny** **Wind: Low** **Humidity**

Date: September 29, 2017 **Time: 0700 – 1500** **Temp: 60 - 75 °F** High Med (Low)

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse, Soil Stockpile Staging Area in Parking Lot

Activities included: Movement of soils from on-site co-mingled stockpile in parking lot to the construction site, backfill, compaction of co-mingled soil backfill, environmental air monitoring.

Site Work Progress:

The contractor spent the day preparing re-enforcement bars in advance of an upcoming concrete pour.

Approximately 100 cubic yards of soil was taken from the soil stockpile in the parking lot and moved to three locations on the construction site. The material will be utilized to raise grade level on the construction site at some point in the near future.

Air monitoring was performed during the soil movement activities.

Remarks:

Air monitoring identified no detections above background levels throughout the day from either the PID nor 4-gas meter.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By:
Date:

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Photo #1: Remaining co-mingled stockpile on- site.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny** **Wind: Low** **Humidity** High Med Low

Date: October 2, 2017 **Time: 0700 – 1530** **Temp: 85** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Footing concrete form removal, environmental air monitoring

Site Work Progress:

Contractor spent the day removing concrete forms and backfilling between open areas between foundation walls after forms were removed. Air was continuously monitored during all soil movement. A 4-gas meter was placed near the temporary clubhouse and continuously monitored. The perimeter of the construction site was also scanned with a PID throughout the day.

Remarks:

No detections were found above ambient levels throughout the day from either the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
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Photo1: concrete from removal and compaction of material.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny** **Wind: Low** **Humidity** High Med Low

Date: October 3, 2017 **Time: 0700 – 1530** **Temp: 82** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Footing concrete form removal, environmental air monitoring

Site Work Progress:

Contractor spent the day removing concrete forms and backfilling between open areas between foundation walls after forms were removed.. Air was continuously monitored during all soil movement. A 4-gas meter was placed near the temporary clubhouse and continuously monitored. The perimeter of the construction site was also scanned with a PID throughout the day.

Remarks:

No detections were found above ambient levels throughout the day from either the PID nor 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny** **Wind: Low** **Humidity**

Date: October 4, 2017 Time: 0700 – 1530 **Temp: 60 - 80** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse, Soil Stockpile Staging Area in Parking Lot

Activities included: Backfill of soils from co-mingled stockpile remaining on-site. Compaction of co-mingled soil backfill and environmental air monitoring.

Site Work Progress:

Approximately 50 cubic yards of soil was taken from the co-mingled soil stockpile on-site and moved towards the southern end of the construction site. The material will be utilized to raise grade level on the construction site at some point in the future. The soil was sprinkled with water before compaction to improve dust control and increase compaction.

Air monitoring was performed during the soil movement activities.

Remarks:

Air monitoring identified no detections above background levels throughout the day from either the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Photo #1: Co-mingled soil after compaction.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Sunny/Cloudy** **Wind: Low** **Humidity** High Med (Low)

Date: October 5, 2017 Time: 0700 – 1530 **Temp: 60 - 80** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse, Soil Stockpile Staging Area in Parking Lot

Activities included: Movement of soils from on-site co-mingled stockpile and shaping layer soil. Compaction of co-mingled soil backfill and environmental air monitoring.

Site Work Progress:

Soil backfilled between the concrete sub-structure was screened to remove any large rocks/boulders and compacted. The soil was sprinkled with water before compaction to improve dust control and increase compaction.

Air monitoring was performed during the soil movement activities with a 4-gas meter and PID.

Remarks:

Air monitoring identified no detections above background levels throughout the day from either the PID or the 4-gas meter.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By:
Date:

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Photo #1: Co-mingled soil after compaction.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny/Cloudy** **Wind: Low** **Humidity**

Date: October 6, 2017 Time: 0700 – 1530 **Temp: 60 - 85** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse, Soil Stockpile Staging Area in Parking Lot

Activities included: Movement of soils from on-site co-mingled stockpile and shaping layer soil. Compaction of co-mingled soil backfill and environmental air monitoring.

Site Work Progress:

Soil backfilled between the concrete sub-structure was screened to remove any large rocks/boulders and compacted. The soil was sprinkled with water before compaction to improve dust control and increase compaction. Soil was compacted in lifts approximately 8" of soil per a lift to meet specifications.

Air monitoring was performed during the soil movement activities with a 4-gas meter and PID. The 4-gas meter was stationed near the intersection between the construction site and temporary clubhouse. The perimeter of the site was monitored with a PID throughout the day.

Remarks:

Air monitoring identified no detections above background levels throughout the day from either the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Photo 1: Compacted co-mingled soil. Area continuously scanned with PID during compaction.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy** **Wind: Light** **Humidity**

Date: October 11, 2017 **Time: 0900 – 1230** High Med Low

Temp: 68 - 76 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Importation of crushed stone to raise grade elevations under the footprint of the new club house. Installation of sub-grade plumbing and electrical conduits.

Site Work Progress:

Crushed stone was imported to the site and stockpiled. This material will be used later in the week to raise the grade elevations under the footprint of the new club house building.

Air monitoring was performed along the perimeter of the site with the PID and the 4-gas meter.

Remarks:

Air monitoring was conducted throughout the day. No detections above background were recorded on the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo #1: importation of crushed stone to the club house construction area.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Sunny/Cloudy** **Wind: Breezy** **Humidity**

Date: October 12, 2017 **Time: 1400 – 1600** High Med (Low)

Temp: 68-70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: spreading of crushed stone to raise grade under the footprint of the club house, continued installation of sub-grade plumbing and electrical conduits.

Site Work Progress:

Crushed stone was place inside the club house footprint and spread to raise elevations 1 foot as per specifications.
Air monitoring was performed around the perimeter of the construction area and at select locations of work activities.

Remarks:

Air monitoring was conducted throughout the day. No detections above background were recorded on the PID or the 4-gas

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo #1: Crushed stone being laid to raise base elevations 1 foot as per specifications.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Overcast Skies** **Wind:Windy** **Humidity**

Date: October 13, 2017 **Time: 1300 – 1500** High Med Low

Temp: 60-68 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: spreading of crushed stone to raise grade under the footprint of the club house, continued installation of sub-grade plumbing and electrical conduits.

Site Work Progress:

Crushed stone was place inside the club house footprint and spread to raise elevations 1 foot as per specifications.
Air monitoring was performed around the perimeter of the construction area and at select locations of work activities.

Remarks:

Air monitoring was conducted throughout the day. No detections above background were recorded on the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo #1: Crushed stone stockpile. Stone was being laid to raise base elevations 1 foot as per specifications.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Clear Skies** **Wind:Windy** **Humidity**

Date: October 19, 2017 **Time: 0900 – 1300** High Med Low

Temp: 66 - 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: continued installation of sub-grade plumbing and electrical conduits; inspection of anchor bolts; weekly construction meeting.

Site Work Progress:

Sub-grade electrical and plumbing work contined. Air monitoring was performed around the perimeter of the construction area and at select locations including the 'honeycombs'.

Remarks:

Air monitoring was conducted. No detections above background were recorded on the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo #1: Crushed stone stockpile to be used to raise sub-grade and later for SSDS installation.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: partly cloudy** **Wind: breezy** **Humidity**

Date: October 25, 2017 **Time: 0800 – 1200** High Med Low

Temp: 64 - 68 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: continued installation of sub-grade plumbing and electrical conduits; inspection and repair of anchor bolts; weekly construction meeting.

Site Work Progress:

Sub-grade electrical and plumbing work continued. Air monitoring was performed around the perimeter of the construction area and at select locations.

Remarks:

Air monitoring identified no detections above background on the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo #1: Crushed stone used to raise sub-grade in advance of SSDS installation.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: partly cloudy** **Wind: light and variable**
Humidity

Date: November 1, 2017 **Time: 0800 – 1200** High Med Low
Temp: 56 - 60 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: continued installation of sub-grade plumbing and electrical conduits; staging of crushed stone for use in SSDS; weekly construction meeting.

Site Work Progress:

Staging of Liquid Boot materials including spray-on solutions, fabric and protective layers. Material is being temporarily stored on pallets. It is expected that the materials will be used to create a vapor barrier during the week of November 6. Sub-grade electrical and plumbing work continued. Completion of re-inforcing bar installation in proposed outdoor patio area; Air monitoring was performed around the perimeter of the construction area and at select locations.

Remarks:

Air monitoring identified no detections above background on the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo #1: Staging of Liquid Boot Materials for use in the SSDS .

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny** **Wind: Medium-Low** **Humidity**

Date: November 2 , 2017 **Time: 0700 – 1500** **Temp: 50°F** High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, EAI Environmental

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Backfilling the stone sub base, and install sections of the SSDS pipping.

Site Work Progress:

EAI Environmental was onsite laying down the SSDS piping for the section with 3 vent pits. EAI installed all of the piping for that section and also prepared the 3 pits to the point that only the concrete cap needed to be set into place. (See photos below)

Tomorrow's planned activities is to start laying down the green plastic barrier to prep for applying the Liquid Boot compound within the building footprint

Remarks:

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date:

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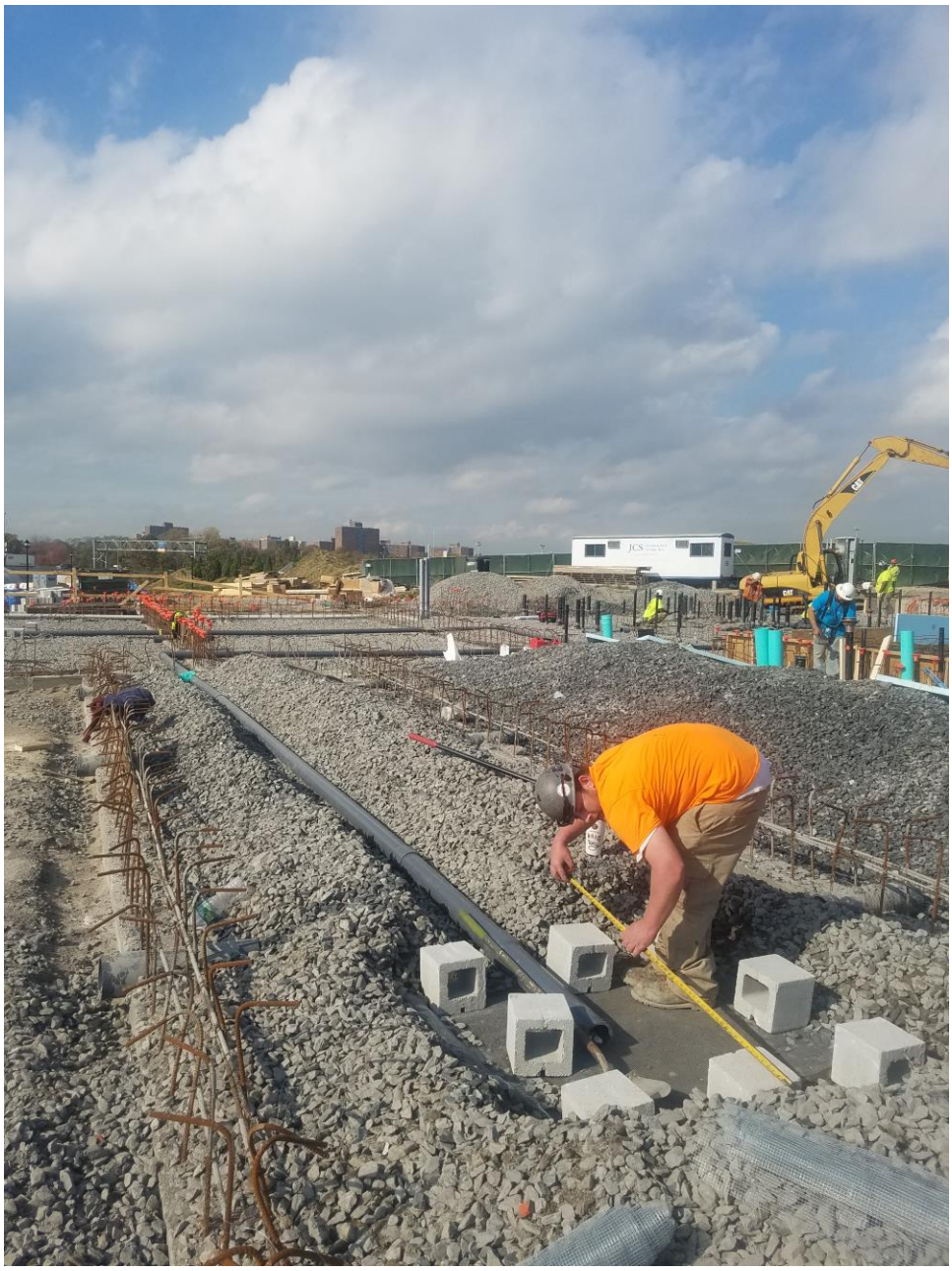

Photo 1: EAI employee measuring the dimensions of the SSDS Air Pit

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Photo 2: Partially completed air pit for the SSDS system.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: Sunny and Cloudy** **Wind: Light-midium** **Humidity**

Date: November 3, 2017 **Time: 0700 – 1300** **Temp: 56 - 60** °F (High) Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Continued installation of sub-grade plumbing and electrical conduits; SSDS installation of crushed stone, PVC piping, and concrete cage pits

Site Work Progress:

The second installation of the SSDS piping was advanced by EAI and inspected by Maser Consulting. The configuration consisted of header 4" dia. Schedule 80 PVC piping connecting to four (4) sub-slab depressurization pits and one (1) riser 4" dia. Schedule 80 PVC pipe.

Deviations to the original EAI site plan denoted as Drawing No. SD004 were made to account for as-built utilities. The pit locations did not change, however the PVC piping was altered slightly. Minor changes includeded PVC piping entering from a different pit side and removal of unnecessary elbows. All pits were constructed based on EAI's approved spec, which slightly differs from the SD004 spec in regard to the concrete block configuration and steel rods. DP-2B was the only pit left unconstructed at the end of the day however, Triple G will be installing the final pit prior to liquid boot installation.

As-built dimensions were measured for both first and second SSDS piping advancements.

A 4-gas meter was kept on-hand and checked periodically throughout the day.

Remarks:

Air monitoring identified no detections above background on the PID or the 4-gas meter.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By:
Date:

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Photo #1: DP-2A Sub-slab depressurization pit. PVC piping heading toward T couple and SD2-C pit.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny-Partly Cloudy** **Wind: Light-medium** **Humidity**

Date: November 4, 2017 **Time: 0700 – 1330** High Med Low

Temp: 60 - 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Continued installation of reinforcement bar cages around patio area.

Site Work Progress:

Re-inforcement bar around the patio area of the clubhouse was reworked by Triple G to meet inspection standards. Extra gravel below the rebar cages was removed and placed within the SSDS sub-slab area.

A 4-gas meter was mounted near the clubhouse area and checked periodically throughout the day.

Remarks:

Air monitoring identified no detections above background on the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Photo #1: Photo of the DP-2B SSDS pit area

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: 100% cloudy; misty in the morning, some showers in the afternoon**

Humidity High Med Low

Date: November 6, 2017 **Time: 8:00am**

Temp: 64 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G, EAI (Newark, NJ)

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: SSDS installation

Site Work Progress:

The 7th and final SSDS pit (DP-2B) was excavated and connected to the lateral SSDS collection piping. EAI stated that low point drains were installed in the lateral collection piping at intervals of no more than 20 feet. Measurements of the SSDS system component installed locations were taken for use in the P.E.'s as-built report. The vent risers were found to be uncovered, and temporary duct tape covers were placed over these two open pipes; the standing water needs to be removed from these pipes, and more permanent covers need to cap these pipes until construction of the remaining piping to the roof begins.

A fire extinguisher was present near work activities. The VRAE meter alarms is triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are above OSHA exposure limits; the alarm was not triggered for these four gases during morning and afternoon walkarounds of today's activities.

A walkdown of the soil stockpiles for erosion and sediment control was conducted, with the haybales and tarps found to be satisfactory.

Tomorrow's planned activities include pouring stone cover over the lateral SSDS collection piping, with Liquid Boot® installation planned for Wednesday/Thursday of this week.

Remarks:

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Donald Bowman, P.E. Donald Bowman **Reviewed By:**

Date:

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View of eastern section of SSDS, showing lateral collection piping (dark gray), pit DP-1B with white concrete slab cover (far background, in front of backhoe bucket), and vent riser SFV-1 (far right side) (11/06/2017)

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View of western section of SSDS, showing lateral collection piping (dark gray), pit DP-2A (far left side), pit DP-2B being constructed in the southwest corner of building footprint (far background), and vent riser SFV-2 (far right side) (11/06/2017)

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Mostly sunny, then turned 100% cloudy** **Humidity**

Date: November 7, 2017 **Time: 6:45am** High Med Low

Temp: 45 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: SSDS installation

Site Work Progress:

Stone was poured to an approximate depth of 12 inches per design over the eastern third of the lateral SSDS collection piping.

A fire extinguisher was present near work activities. The VRAE meter alarms is triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are above OSHA exposure limits; the alarm was not triggered for these four gases during morning and afternoon walkarounds of today's activities.

A walkdown of the soil stockpiles for erosion and sediment control was conducted, with the haybales and tarps found to be satisfactory.

Tomorrow's planned activities include pouring stone cover over the balance of the lateral SSDS collection piping, with (weather permitting) Liquid Boot® installation in parallel over the eastern third (i.e. area that was covered with stone today).

Remarks:

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Donald Bowman, P.E. Donald Bowman

Reviewed By:
Date:

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View of eastern section of SSDS, showing lateral collection piping (dark gray) and vent riser SFV-1 (far right side): at the conclusion of 11/06/2017 (above) & at the conclusion of 11/07/2017 (below)

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast** **Wind: easterly wind** **Humidity**

Date: November 8, 2017 **Time: 0700 – 1400** High Med Low

Temp: 40 - 50 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction, EAI (Liquid Boot Application)

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: spreading of crushed stone for use in SSDS; weekly construction meeting; application of base layer and liquid boot application in the northwestern section of new clubhouse.

Site Work Progress:

20ML thick vapor barrier base layer was placed over completed floor sections in the northwest corner of the clubhouse. Application of Liquid Boot was delayed until ambient temperatures reached and climbed above 45 degrees. Two floor sections were completed before a pump malfunction forced an early shutdown. Liquid Boot will cure overnight. Smoke and swatch thickness testing will be performed tomorrow. Air monitoring was performed around the perimeter of the construction area and at select locations.

Remarks:

Base layer was measured at a thickness of 20.5 ML. Vapor barrier base layers were overlapped a minimum of 6 inches as per the specification. Liquid Boot spray was also applied as per specifications and only when ambient temperatures climbed above 45 degrees.

Air monitoring identified no detections above background on the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo #1: Liquid Boot application in the northwest floor section of the new clubhouse building.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Sunny/Partialy Cloudy** **Wind: Low Wind** **Humidity**

Date: November 9, 2017 **Time: 0700 – 1500** High (Med) Low

Temp: 40 - 55 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction, EAI (Liquid Boot Application)

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Spreading of crushed stone for use in SSDS; application of base layer geomembrane and liquid boot in the northwestern section of new clubhouse.

Site Work Progress:

The floor sections where liquid boot was applied on November 8th were smoke tested today. A total of five (5) coupon samples (1 per concrete section) were taken from the area designated as Area A. The coupon sampling frequency complies with the specifications. Four (4) smoke tests were performed in Area A. Representatives Ethan and Jen from Woodard & Curran were present during the smoke test. A protective geotextile fabric was placed on top of the liquid boot section following successful smoke testing and coupon thickness testing.

A 20 mil thick geomembrane base layer (VI-20) and liquid boot was placed over the completed floor sections in Area B. This area is south of Area A. After 6 hours of curing time, Area B was smoke tested. A total of three (3) coupon samples and (4) smoke tests were performed in Area B. Portions of the area where smoke was visibly escaping the barrier were re-sprayed with liquid boot. A protective geotextile fabric was placed over the barrier following successful testing.
Smoke testing was also performed on the SSDS piping network to confirm no blockages. During the test, visible smoke was observed from pits DP-1A and DP-1C.

Air monitoring was performed around the perimeter of the construction area and at select locations.

Remarks:

Coupon samples were measured with digital calipers. Coupon thicknesses met or exceeded the 60 ml specification with most coupons measuring thicknesses of 70-90 mils. Vapor barrier base layers were overlapped a minimum of 6 inches as per the specification. Liquid Boot spray was also applied as per specifications and only when ambient temperatures climbed above 45 degrees. Air monitoring identified no detections above background on the PID or the 4-gas meter.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato **Reviewed By:**

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Date:

Photo #1: Liquid Boot application in the northwest floor section of the new clubhouse building (Area A and B).

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Heavy Rain** **Wind: High** **Humidity**

Date: November 13 , 2017 **Time: 0700 – 1500** **Temp: 37°F** High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, EAI Environmental

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Backfilling the stone sub base, and install sections of the SSDS pipping.

Site Work Progress:

EAI Environmental was onsite however it was determined that it was raining too hard to begin applying the Liquid Boot Compound, so they left for the day. Triple G contractor was on site for the day setting up the concrete forms for the floor slab of the remaining areas within the building footprint

Tomorrow's planned activities is to complete spraying the remaining areas with Liquid Boot compound followed by steam testing and cutting out coupons to confirm the thickness of the Liquid Boot.

Remarks:

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Overcast** **Wind: High** **Humidity**

Date: November 14 , 2017 **Time: 0700 – 1500** **Temp: 46**°F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, EAI Environmental

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Backfilling the stone sub base, and install sections of the SSDS pipping.

Site Work Progress:

EAI Environmental was onsite spraying the areas within the building footprint with the Liquid Boot compound.

Tomorrow's planned activities is the complete spraying the remaining areas with Liquid Boot compound followed by steam testing and cutting out coupons to confirm the thickness of the Liquid Boot.

Remarks:

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent **Reviewed By:**
Date:

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Photo 1: Liquid Boot spraying

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Photo 2: Spraying Liquid Boot Compound and laying down the Green GeoLayer barrier.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny** **Wind: light and variable**
Humidity High Med Low

Date: November 15, 2017 **Time: 0800 – 1200**
Temp: 45 - 50 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction, EAI (Liquid Boot)

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: spraying of Liquid Boot over remaining floor sections, smoke testing, liner thickness testing; air monitoring

Site Work Progress:

The remaining floor sections of the new clubhouse interior were lined, sprayed and smoke tested today. All coupons were measured for thickness and all were found to exceed the minimum thickness requirements. Smoke testing was performed to identify areas that were not vapor tight. Multiple areas were found to emit smoke, however all leaks were appropriately sealed before the protective fabric layer was placed over the remaining floor sections. This phase of the Liquid Boot application is now complete.

Remarks:

Air monitoring performed during the course of the day revealed no detections above background on the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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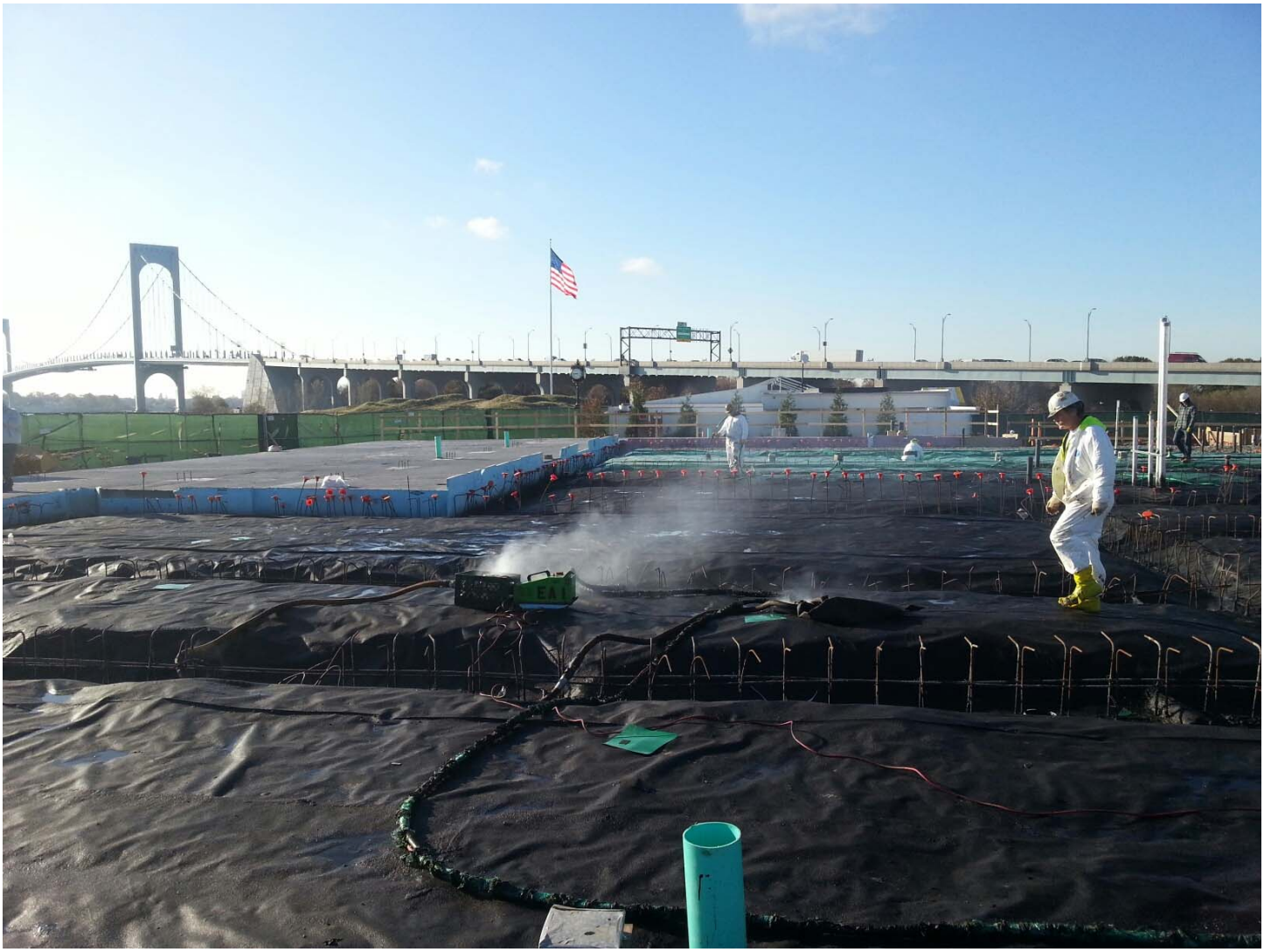

Photo #1: Base layer installation (green fabric), Liquid Boot Spraying and smoke testing in progress.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: light rain ending** **Wind: light and variable**
Humidity High Med Low

Date: November 22, 2017 **Time: 0800 – 1200**
Temp: 55 - 60 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors and JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: steel work by subcontractors; air monitoring and inspection of liquid boot for any damages caused during steel work.

Site Work Progress:

Due to early morning rains limited work is being performed on site. To the extent practical, Maser inspections liquid boot layer for any signs of damage from the steel work that has taken place during the past week. A second round of smoke testing is planned following the completion of steel and re-bar work to verify liquid boot integrity.

Air monitoring performed during the course of the day revealed no detections above background on the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo #1: Installation of steel frame work for new clubhouse.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny, Partially cloudy** **Wind: Medium** **Humidity**

Date: November 27, 2017 **Time: 0700 – 1530** High Med Low

Temp: 40 - 45 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse, Clean Soil Fill \Imported to Site, Steel beam frame construction continued.

Activities included: Visual and PID inspection of clean fill imports from New York Recycling 475 Exterior Street.

Site Work Progress:

Soil was filled around the eastern perimeter of the concrete sub-structure (future patio). Prior to filling the soil was visually inspected for any solid debris. The soil was characterized as brown fine-course sand with gravel/rock fragments roughly 1-1.5" in diameter. Once dumped, the fill was visually inspected again and scanned with a PID. All loads were found to be acceptable. Clean fill was imported by DJCI Trucking LLC and IEV Trucking Corp. Two trucks were loaded and unloaded continuously throughout the day. Soil Manifests were completed for all loads.

Remarks:

There were no PID readings recorded on the imported materials. All loads passed visual and PID screenings

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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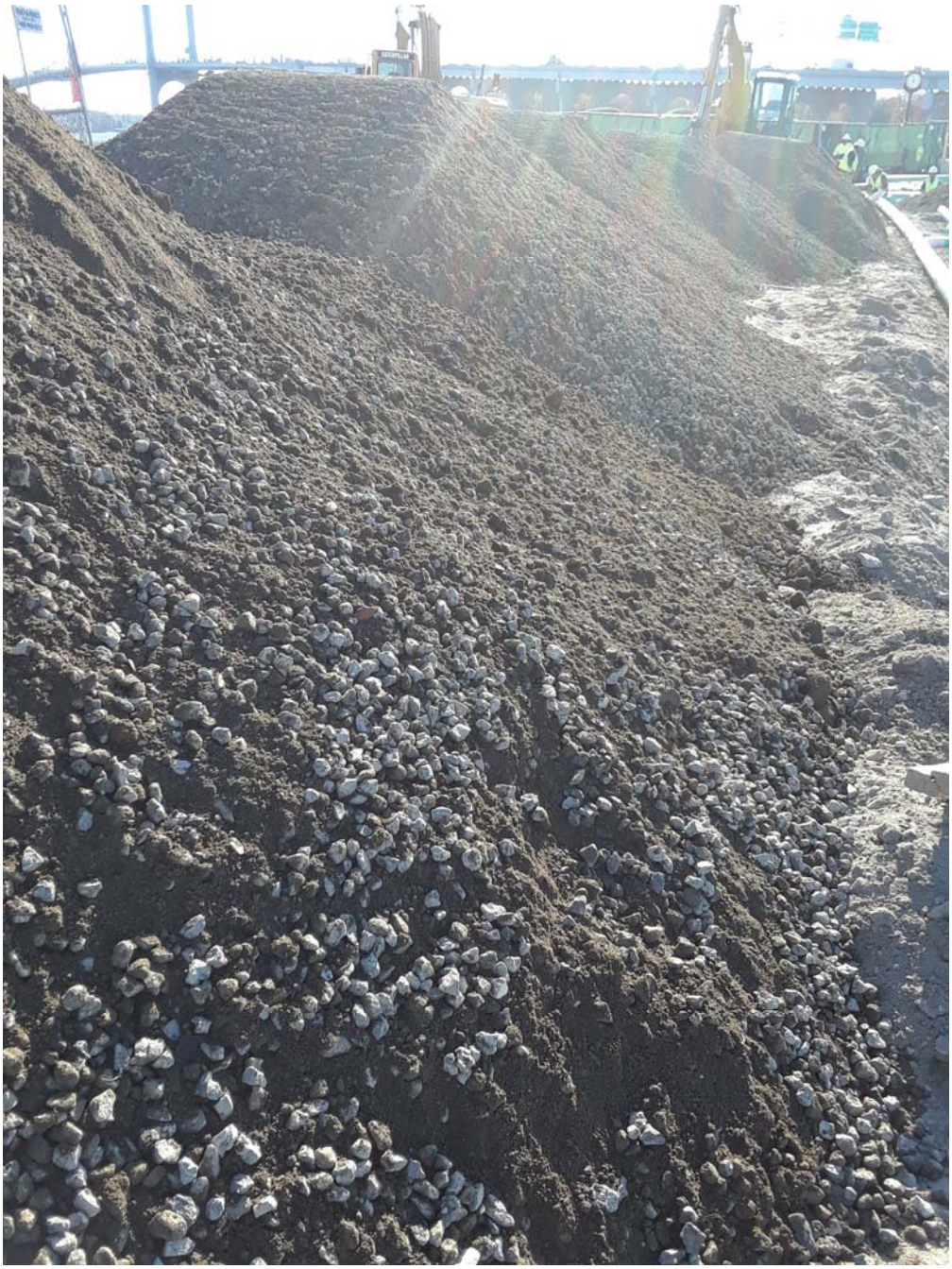

Photo 1: Clean fill imported to the site.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: clear sunny** **Wind: light and variable** **Humidity**

Date: November 29, 2017 **Time: 0800 – 1200** High Med Low

Temp: 55 - 60 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors and JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: steel work by subcontractors; air monitoring and inspection of liquid boot for any damages caused during steel work; importation of two loads of soil from 475 Exterior Street. Weekly Construction Meeting.

Site Work Progress:

Steel work continued. To the extent practical, Maser inspected the liquid boot layer for any signs of damage from the steel work that has taken place during the past week. A second round of smoke testing is planned following the completion of steel work to verify liquid boot integrity.

Air monitoring performed during the course of the day revealed no detections above background on the PID. Visual and PID inspection of two loads for soil from New York Reclycling showed no evidence of VOC's or any visual signs of debris within the material.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo #1: Installation of steel frame work for new clubhouse.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Cloudy** **Wind: Low** **Humidity** High Med (Low)

Date: November 30, 2017 **Time: 0700 – 1430** **Temp: 40 - 45** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse, Clean Soil Fill, Steel beam frame construction

Activities included: Inspection of clean fill.

Site Work Progress:

Approximately 180 yd^3 of clean fill was imported to the site today (10 loads; 18 yd^3 each). Soil was backfilled around the eastern, northern, and western perimeters of the concrete sub-structure. Prior to filling the soil was visually inspected for any solid debris. The soil was characterized as brown fine-course sand with occasional crushed stone roughly 1-1.5" thick in diameter. Once dumped the fill was visually inspected a second time and scanned with a PID. Clean fill was imported by DJCI Trucking LLC and IEV Trucking Corp. Two trucks were loaded and unloaded continuously throughout the day.

Remarks:

Two loads were brought onto the site yesterday November 29, 2017—and segregated for inspection. The loads were visually inspected and scanned with a PID. Manifests for the loads were collected from the truck drivers.

No readings were detected on the PID. No staining or solid waste was observed in any of the imported materials.

Total loads of fill imported: 11/27/2017 (14 Loads), 11/29/2017 (2 Loads), 11/30/2017 (10 Loads)

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By:
Date:

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Photo 1: Clean fill imported to the eastern perimeter being spread and leveled.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny** **Wind: Light** **Humidity** High Med Low

Date: December 4, 2017 **Time: 0700 – 1500** **Temp: 40 - 50** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse, Clean Soil Fill, Steel beam frame construction

Activities included: Inspection of clean fill.

Site Work Progress:

Approximately 126 yd^3 of clean fill was imported to the site today (7 loads; 18 yd^3 each). Soil was backfilled around the north-northwestern perimeter of the building. Prior to filling the soil was visually inspected for any debris. The soil was characterized as brown fine-course sand with recycled crushed concrete stone 1-1.5" thick in diameter. Once dumped the backfill material was scanned with a PID. Clean fill was imported by DJCI Trucking LLC. There was only one truck running throughout the entire day.

Remarks:

No readings were detected on the PID. No staining or solid waste was observed in any of the imported materials.

All material imported for the day passed visual and PID inspections.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date:

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Photo 1: Clean fill pile once off-loaded from truck.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M (T) W TH F SA SU **Weather: Mostly Cloudy** **Wind: Moderate** **Humidity** High (Med) Low

Date: December 5, 2017 **Time: 0700 – 1500** **Temp: 45** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse, Clean Soil Fill, Steel beam frame construction

Activities included: Inspection of clean fill imports.

Site Work Progress:

Approximately 108 yd^3 of clean fill was imported to the site today (6 loads; 18 yd^3 each). Soil was backfilled around the north-northwestern corner of the building. Prior to filling the soil was visually inspected for any large debris within the material. The soil was characterized as brown fine-course sand with recycled crushed concrete stone 1-1.5" thick in diameter. Once dumped the backfill material was scanned with a PID. Clean fill was imported by DJCI Trucking LLC. There was only one truck running throughout the entire day.

Remarks:

No readings were detected on the PID. No staining or solid waste was observed in any of the imported materials.

All material imported for the day passed visual and PID inspections.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Eric Sergent

Reviewed By:
Date:

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Photo 1: Clean fill pile staged along the northern perimeter of the construction site.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: clear sunny** **Wind: steady wind** **Humidity**

Date: December 6, 2017 **Time: 0800 – 1200** High Med Low

Temp: 40-45 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors and JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: steel work by subcontractors; air monitoring and inspection of liquid boot for any damages caused during steel work; Weekly Construction Meeting.

Site Work Progress:

Steel work continued. To the extent practical, Maser inspected the liquid boot layer for any signs of damage from the steel work that has taken place during the past week. Several areas were identified where the liquid boot barrier had been compromised/cut to facilitate steel work. A second round of smoke testing is planned following the completion of steel work to verify liquid boot integrity. Smoke testing is tentatively scheduled for December 8.

Air monitoring performed during the course of the day revealed no detections above background on the PID. Visual and PID re-inspection of previously-delivered soils from New York Reclycling showed no evidence of VOC's or any visual signs of debris.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo #1: depicts liquid boot barrier having been cut to facilitate steel work. Repairs required.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Mostly sunny** **Humidity**

Date: December 7, 2017 **Time: 6 : 10 am** High (Med) Low

Temp: 37-45 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G; DJCI (soils transporter)

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Soils Importing

Site Work Progress:

Importation of 7 loads of soil (~ 126 cubic yards) from New York Recycling, a donor source located at 475 Exterior Street in the Bronx. Air monitoring performed during the course of the workday revealed no detections above background on the photoionization detector (PID). Visual observation and PID monitoring of each load of soil from New York Recycling showed no evidence of VOCs or visual signs of debris within the material.

Imported soil was backfilled and graded around the northern and eastern perimeters of the concrete sub-structure. The soil was characterized as brown fine-course sand with occasional crushed stone roughly 1-1.5 inches thick in diameter. Fill was imported by DJCI Trucking LLC, with a single truck loaded and unloaded throughout the day.

A fire extinguisher was present near work activities. A Royal Carting 4-cubic yard municipal solid waste (MSW) commercial container was present near the work area, should MSW be generated from construction activities. A walkdown of the soil stockpiles for erosion and sediment control was conducted, with the haybales and tarps found to be satisfactory.

Tomorrow's planned activities include continuation of soils importing from New York Recycling, and EAI resuming smoke testing and repairs of the vapor barrier.

Remarks:

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Donald Bowman, P.E. Donald Bowman

Reviewed By:
Date:

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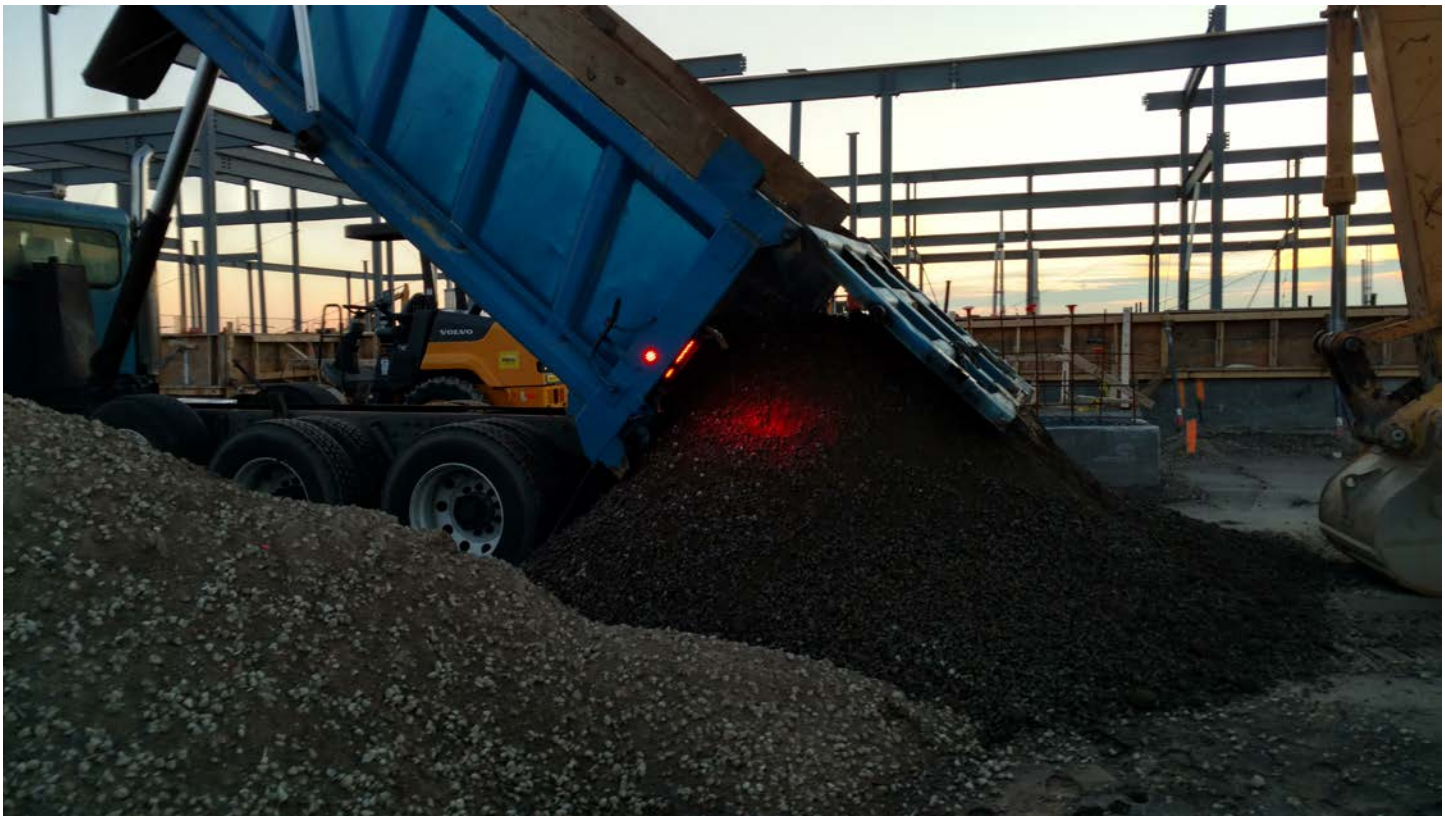

View of first load of soil imported from New York Recycling being tipped by DJCI (12/07/2017)

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View of afternoon loads of soils imported from New York Recycling after being tipped by DJCI, with area graded by morning loads of soil on the right (12/07/2017)

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View of clubhouse eastern footprint, showing Liquid Boot® and its cover fabric (12/07/2017)

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View of clubhouse western footprint, showing Liquid Boot® and its cover fabric (12/07/2017)

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: Mostly Cloudy** **Wind: Moderate** **Humidity** High Med (Low)

Date: December 8, 2017 **Time: 0600 – 1500** **Temp: 30-40 °F**

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction, DJCI Trucking (Soil Transpiration), EAI Environmental

Active Site Work Areas: Construction site for proposed new Clubhouse, Clean Soil Fill, Steel beam frame construction

Activities included: Inspection of clean fill.

Site Work Progress:

One DJCI truck was running throughout the day hauling in approximately 108 yd^3 of clean fill to the site today (6 loads; 18 yd^3 each). Visual observation and PID monitoring of each load of soil from New York Recycling showed no evidence of VOC's or signs of large debris within the soil.
The soil was characterized as brown fine-course sand with recycled crushed concrete stone 1-1.5" thick in diameter.
Imported soil was dumped and stock piled on the south-southwest side of the building. Some of the imported soil was used for backfilling around the steps leading to the patio bar and grill area on the eastern side of the clubhouse. Backfilling was completed using 1ft lifts and compacted using a jumping jack compactor.
EAI was onsite today to perform spot treatment of all locations where the LiquidBoot barrier was damaged causing holes to be put in the LiquidBoot. Smoke testing was performed a second time to help in locating all damaged areas of the Liquid Boot.
EAI said no coupon thickness testing was required because everything already passed the thickness test during the first smoke test.
The plan for Monday December 11th 2017, is for the steel structure of the building to continue being put up as well as the rebar for the floor slab to begin being installed.

Remarks:

No readings were detected on the PID. No staining or solid waste was observed in any of the imported materials.

All material imported for the day passed visual and PID inspections.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Eric Sergent

Reviewed By:
Date:

Customer Loyalty through Client Satisfaction.

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Photo 1: Truck #1 dumping imported clean fill.

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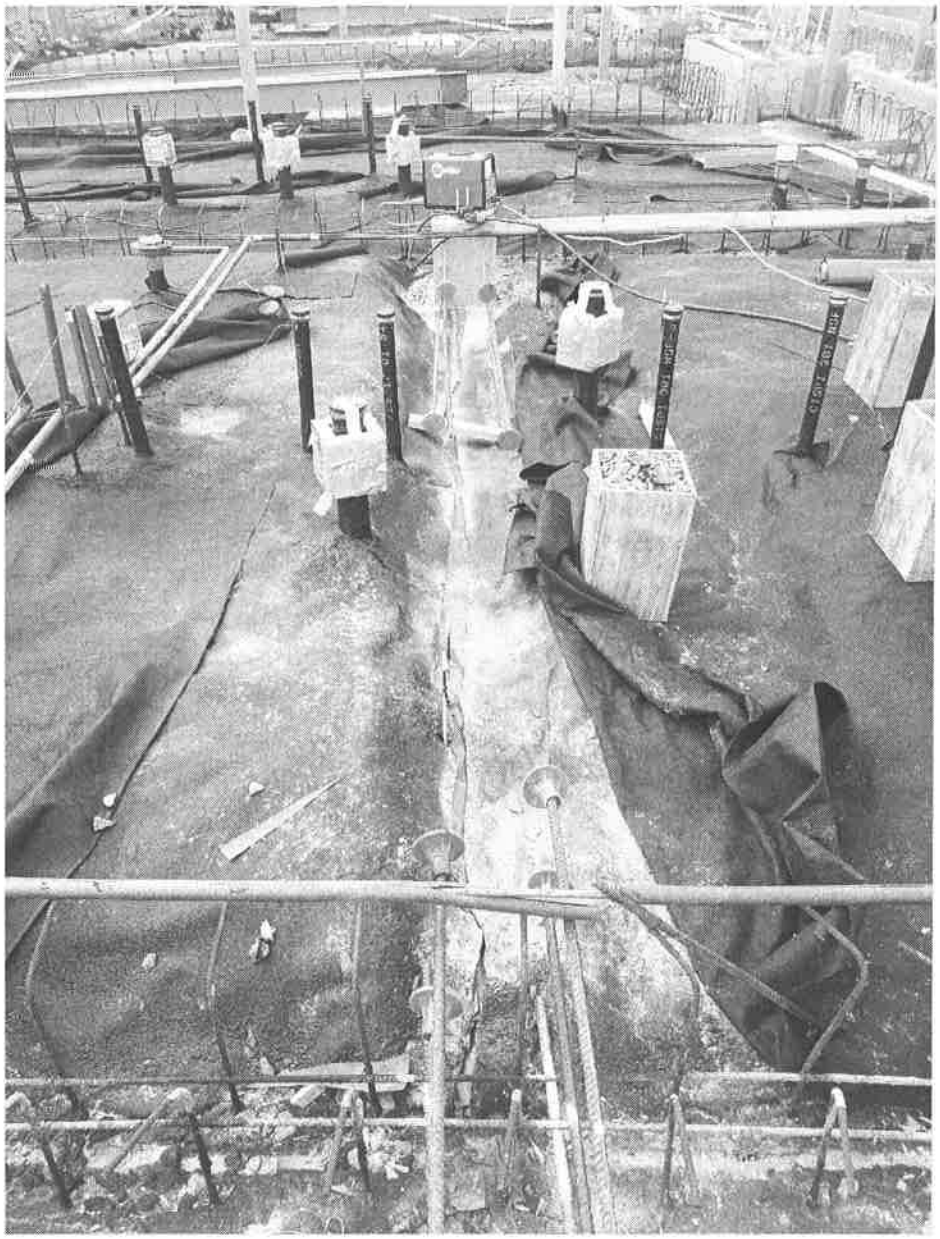

Photo 2: Area for Liquid Boot to be resprayed.

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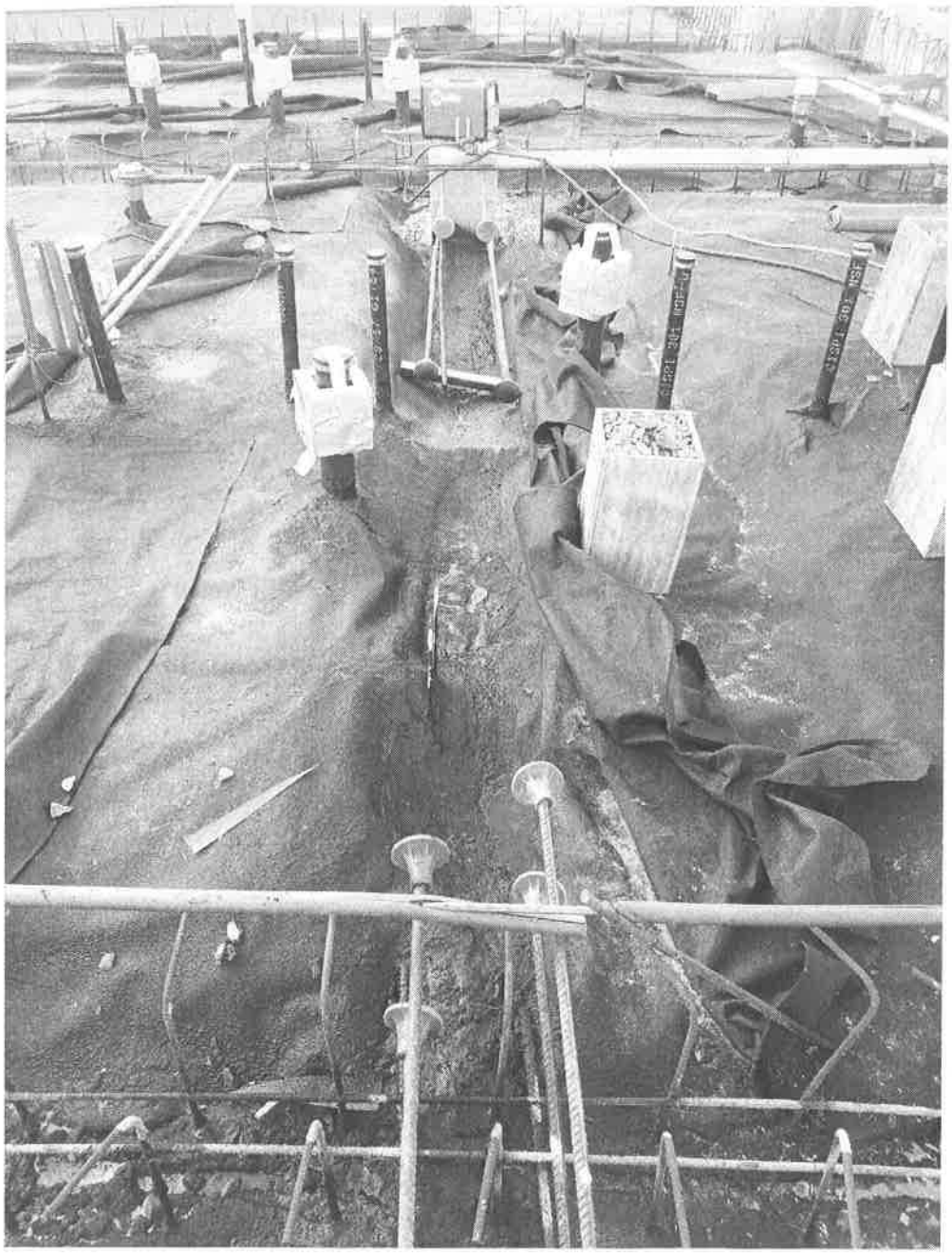

Photo 3: Resprayed area from Photo #2.

Location Trump Golf Links Date 12/8/17

Project / Client Ferry Point

MC# 17002426 A Pg. 1 of 2

6:00 - Eric Sergent arrives onsite.

6:25 - DJCT truck #1 arrives onsite Plate#: 69405ME Truck ID#: 24

7:00 - Load #1 of imported fill dumped, 0.0 on PID, no debris observed, 18 cy - Ticket # 134317

830 - Load #2 imported fill dumped, 0.0 PID reading, no debris observed, 18 cy - Ticket # 134327

950 - Load #3 imported fill dumped, 0.0 PID reading, no debris observed, 18 cy, Ticket # 134342

(*) EAI arrived on site around 800AM. Current temp is 36°F w/ a HIGH - 40°F. Liquid Boot compound was stored outside for the night w/ Heat cords, Heating Blankets + Tarps.

(*) 900 - EAI Begin Smoke Test

(*) EAI said No coupon testing b/c Everything already passed smoke test

Scanned by CamScanner

Location

Date 12/8/17

Project / Client Trump Links Golf Ferry Point

MC #: 17002426A

1100 - Load #4 imported fill dumped, 0.0 PID Reading, no debris observed, 18 cy, Ticket #134348

1210 - Load #5 imported fill dumped 0.0 PID Reading, no debris observed, 18 cy, Ticket # 134362

1345 Load #6 imported fill dumped 0.0 PID Reading, no debris observed, 18 cy, Ticket #.

* 1215 - EAI completed smoke testing and spot treatment of any + all holes caused when the steel was being erected.

* 2nd smoke test *

* Potential 3rd smoke test after * the floor slab rebar is put in.

1245 - EAI Leaves site.

1430 - E. Sergent departs site.

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TK#: 134317

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. NY 1054

Date: 12/8/17 Time: 6:01 AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10541 Block/Lot: 134317

Owner of Excavation Site:

Operator of Excavation Site: Has Excavation Site been Tested for Contamination: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Dan Bowman Received:

Load Identifier: License No.: 69405 ME Load No.: 1-Total-48 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Sand w/ recycled concrete 1"-1½"

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: 12/8/17 Sample No.:

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

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TK# 134327

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: _____ Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: JUAN Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: JUAN Rivas Company: Triple G.

Address: 300 Hutchinson River Pkwy Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. 10541

Date: 12/8/17 Time: 7:59AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No. If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10541 Block/Lot: 134327

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman Received:

Load Identifier: License No.: _____ Load No.: Z - Total 49 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: 12/8/17 Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

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TX# 134342

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: _____ Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G

Address: 300 Hutchinson River Pwy. Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street Bronx. 10451

Date: 12/8/17 Time: 9:11AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No. If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx. NY 10451 Block/Lot: 134342

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

upervisor Name: Don Bowman Received:

oad Identifier: License No.: _____ Load No.: 3-Total 50 Estimated Volume: 18 *Cubic Yards*

laced in Stockpile Bin No.:

asic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

mple Collected By (Name): _____ Date: 12/8/17 Sample No.: _____

sults Received By (Name): _____ Date: _____

mpling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

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TKT# 134348

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rios
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rios Company: Triple G

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. 10451

Date: 12/8/17 Time: 10:18AM Truck License Plate No.: 69405 MF State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10451 Block/Lot: 134348

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Dan Bowman Received:

Load Identifier: License No.: _____ Load No.: 4-Total-51 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: 12/8/17 Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

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TK# 134362

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: _ Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: HUAN RIVAS
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: HUAN RIVAS Company: Triple G.

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. 10451

Date: 12/8/17 Time: 11:28AM Truck License Plate No.: 69405 MC State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10451 Block/Lot: 134362

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bouman Received:

Load Identifier: License No.: _____ Load No.: 5-Total-52 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: 12/8/17 Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

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TK# 134369

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G.

Address: 300 Hutchinson River Pkwy. Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. 10451

Date: 12/8/17 Time: 12:43pm Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results
☐ No. If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10451 Block/Lot: 134369

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bauman Received:

Load Identifier: License No.: Load No.: 6-Tota-53 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: 12/8/17 Sample No.:

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: partly cloudy** **Wind: high winds** **Humidity**

Date: December 13, 2017 **Time: 0900 – 1130** High Med Low

Temp: 20-25 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors and JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: steel work by subcontractors; inspection of liquid boot for any damages; Weekly Construction Meeting.

Site Work Progress:

Steel work continued. Maser inspected the liquid boot layer for any signs of damage since the smoke testing of December 8. All areas inspected appeared to be intact. A third and final smoke test is planned for the week of December 18.

Air monitoring performed revealed no detections above background on the PID.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo #1: steel frame superstructure of the new clubhouse .

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast skies** **Wind: light** **Humidity**

Date: December 18, 2017 **Time: 0600-1200** High Med Low

Temp: 30-38 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction, NV5 (Re-bar work, concrete pour, concrete testing); EAI (smoke testing)

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: reinforcing bar installation by subcontractors; smoke testing by EAI, air monitoring and concrete pouring.

Site Work Progress:

Steel reinforcing bar installation continued on the south side of the new clubhouse; smoke testing of the vapor barrier was completed in advance of the concrete pour. Smoke testing revealed several areas of the liquid boot barrier to have been compromised during the re-bar installation. All vapor barrier defects were properly repaired with trowel grade by EAI in advance of the concrete pour. This was the third and final round of smoke testing.

Air monitoring revealed no detections above background on the PID.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo #1: smoke testing was conducted following the installation of re-bar; concrete trucks in background preparing for a pour.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast skies** **Wind: light** **Humidity**

Date: December 22, 2017 **Time: 0900-1100** High Med Low

Temp: 25 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general

Site Work Progress:
Inspection of Erosion Control measures at clubhouse construction site and soil stockpile in parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: partly cloudy skies** **Wind: light** **Humidity**

Date: December 27, 2017 **Time: 0900-1100** High Med Low

Temp: 20 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general

Site Work Progress:

Inspection of Erosion Control measures at clubhouse construction site and soil stockpile in parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

Customer Loyalty through Client Satisfaction.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny** **Wind: light** **Humidity** High Med Low

Date: January 3, 2018 **Time: 0900-1100** **Temp: 20** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks; weekly construction meeting; erosion control inspection

Site Work Progress:

Inspection of Erosion Control measures at clubhouse construction site and soil stockpile in parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Customer Loyalty through Client Satisfaction.

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Photo 1: Soil Stockpile in Parking Lot

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny** **Wind: light** **Humidity** High Med Low

Date: January 10, 2018 **Time: 1000-1100** **Temp: 30** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks; weekly construction meeting; erosion control inspection

Site Work Progress:

Inspection of Erosion Control measures at clubhouse construction site and soil stockpile in parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Customer Loyalty through Client Satisfaction.

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Photo 1: Soil Stockpile in Parking Lot

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: snow** **Wind: light** **Humidity**

Date: January 17, 2018 **Time: 1000-1200** **Temp: 34** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks; weekly construction meeting; erosion control inspection

Site Work Progress:

Inspection of Erosion Control measures at clubhouse construction site and soil stockpile in parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Customer Loyalty through Client Satisfaction.

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Photo 1: Progress on New Club House

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Photo 2: Sediment control features in catch basins

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: snow** **Wind: 20mph** **Humidity**

Date: January 24, 2018 **Time: 0900-1500** **Temp: 30-35** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, EAI (for SSDS piping modifications), Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks; weekly construction meeting; erosion control inspection, oversight of SSDS piping modifications.

Site Work Progress:

Inspection of Erosion Control measures at clubhouse construction site and soil stockpile in parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: SSDS vertical piping relocated. Pipe was moved to be enclosed inside an interior wall of the new clubhouse.

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Photo 2: Workers secure tarps on soil stockpile in parking area

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: snow** **Wind: light** **Humidity**

Date: January 25, 2018 **Time: 0800-0900** **Temp: 25** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks

Site Work Progress:

Arrived at the site to meet EAI to complete the work to relocate SSDS risers. JCS reports that EAI will not be on-site today. JCS to notify Maser when EAI will be back on-site (probably next week).

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Work Progress at New Club House

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: clear** **Wind: moderate** **Humidity**

Date: January 31, 2018 **Time: 0900-1100** **Temp: 25** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks, weekly construction meeting, erosion control measures inspection

Site Work Progress:

General work tasks at new club house, weld inspections. Weekly construction meeting, inspection of former aeration core disposal area and former excavation site near the 7th green.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Work Progress at New Club House

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Photo 2: Soil stockpile in parking area

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: snow/rain** **Wind: moderate** **Humidity**

Date: February 7, 2018 **Time: 1130 - 1400** **Temp: 30** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks, weekly construction meeting, erosion control measures inspection

Site Work Progress:

General work tasks at new club house were being performed by subcontractors. Limited work force was on-site due to the weather. Weekly construction meeting, inspection of erosion control measures, inspection of former aeration core disposal area and former excavation site near the 7th green.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Work Progress at New Club House

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Photo 2: Soil stockpile in parking area. Contractor to re-tarp and secure hay bails folowing the storm.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: clearing skies** **Wind:light**
Humidity

Date: February 14, 2018 **Time: 0900 - 1200** High Med Low
Temp: 45 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks, weekly construction meeting, erosion control measures inspection

Site Work Progress:

Club House: General work tasks being performed by subcontractors.
Weekly construction meeting, inspection of erosion control measures, inspection of former aeration core disposal area and former excavation site near the 7th green.

New silt fence was installed around the soil stockpile in the parking lot. New tarps and tarp anchors were placed over the same stockpile. Storm sewer sediment traps were also cleaned and replaced.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Work Progress at New Club House

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Photo 2: Soil stockpile in parking area. New silt fence installed; new tarps securely cover the pile.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: rain** **Wind:light** **Humidity**

Date: February 22, 2018 **Time: 1000 - 1200** **Temp: 45** °F (High) Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks, oversight of EAI SSDS modifications

Site Work Progress:

Eai was a no-show today. Informs JCS they will be on-sitre tomorrow for SSDS modifications

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Dave Keil **Reviewed By:**
Date:

Photo 1: Work Progress at New Club House

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: light rain** **Wind:light** **Humidity**

Date: February 23, 2018 **Time: 0700 - 1300** **High Med Low**

Temp: 35 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks, erosion control measures inspection, oversight of EAI SSDS piping modifications

Site Work Progress:

Club House: General work tasks being performed by subcontractors. EAI modifies SSDS riser pipes inside the clubhouse. Makes ceiling and roof penetrations at two locations.

Weekly inspection of erosion control measures, inspection of former aeration core disposal area and former excavation site near the 7th green.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo 1: Work Progress at New Club House

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Photo 2: SSDS Ceiling penetration (typical)

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: partly cloudy** **Wind:light** **Humidity**

Date: February 28, 2018 **Time: 0900 - 1200** High Med Low

Temp: 50 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks, erosion control measures inspection, weekly construction meeting

Site Work Progress:

Club House: General work tasks being performed by subcontractors.

Weekly inspection of erosion control measures, inspection of former aeration core disposal area and former excavation site near the 7th green.

Two (2) piles of sand were observed in the construction area. It was reported—and observed—that the sand is being used to mix mortar for brick-laying.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo 1: Imported sand being mixed to make mortar.

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Photo 2: Soil Stockpile in parking lot

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny & clear** **Wind:light** **Humidity**

Date: March 6, 2018 Time: 0800 - 1600 High Med Low

Temp: 40-45 °F

Name of Project: Trump Golf Links – Ferry Point Park Municipality: Bronx, NY Job No: 17002426A

Site Contractors: JCS Construction, Triple G, IEV Trucking

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks, soil importation from New York Recycling, trenching of new electical conduit for clock tower relocation, oversight of EAI SSDS installations

Site Work Progress:

Club House: General work tasks being performed by subcontractors including roof shingles and cupola installation

No SSDS work was conducted as EAI was not on-site as scheduled.

Inspection of former aeration core disposal area and former excavation site near the 7th green. Tarps and sand bags for the soil stockpile in the Parking Lot were being secured inadvance of tomorrow's forecast nor'easter.

Soil importation from New York Recylcing: a total of 108 cubic yards in 6 loads. Maser visited New York Recycling to confirm that stockpiled materials from that facility (which were sampled in September 2017) were still being used as the source of fill material for the new club house construction site.

Trenching for the installation of new electrical conduit to the new location of the clock tower. Trench is approximately 40 feet long, 2 feet deep, 18 inches wide. No obervations of demarcation layer, odors, smells, debris or PID readings.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo 1: Soil Importation from New York Recycling. 108 cubic yards delivered in 6 loads.

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Photo 2: New electrical conduit trench for the relocation of the clock tower.

Photo 3: Dump Truck bound for Trump Links Ferry Point being loaded at New York Recycling 475 Exterior Street, Bronx, NY. Dedicated bays with materials from the "Trump Pile" appear on the right side to the photograph.

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Photo #4: IEV Truck leaving New York Recycling with materials bound for the new Club House site at Trump Links, Ferry Point.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: increasing clouds** **Wind:light** **Humidity**

Date: March 8, 2018 Time: 0800 - 1200 High Med (Low)

Temp: 35- 40 °F

Name of Project: Trump Golf Links – Ferry Point Park Municipality: Bronx, NY Job No: 17002426A

Site Contractors: JCS Construction, Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks, excavation to install the new foundation for the soon-to-be relocated clock tower, weekly construction meeting.

Site Work Progress:

Club House: General work tasks being performed by subcontractors.

Assessment of tarps covering the soil stockpile in the Parking Lot and other erosion control features. All found to be in satisfactory condition-with only minor displacements--following yesterday's nor'easter. Recommended to JCS that the tarp anchors be re-adjusted at the earliest opportunity.

Excavation for the installation of the new clock tower foundation was completed. The excavation is approximately 4 feet long, 4 feet wide and 4 feet deep. No groundwater, debris, smells or wastes were observed. The demarcation barrier was not encountered. Surplus cover and shaping material is being stockpiled adjacent to the construction area until it is ready to be used on-site and appropriately covered.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo #1: Excavation of the foundation for the soon-to-be-relocated clock tower

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Photo #2: post storm condition of the soil stockpile in the parking lot

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Photo #3: Work progress at the new club house. Concrete in foreground-derived from the perimeter sidewalk-is scheduled to be transported off-site for recycling.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny/Partially Cloudy** **Wind: moderate** **Humidity** High Med Low

Date: March 12, 2018 Time: 0900 - 1230 **Temp: 40 - 45** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: EAI, Inc., JCS Construction, Triple G

Active Site Work Areas: Maintenance Building, Two (2) Comfort Stations, Construction site for Clubhouse

Activities included: Methane Detection Alarm System Upgrading, Erosion Control Measures Inspection

Site Work Progress:

General documentation of methane detection improvements at the comfort stations and maintenance building. Note one of the comfort stations was off-site and owned by Ferry Point Park. Victor and Mike from EAI made the improvements to the system, which consisted of installing a RACO Thervotim into the sytem. This improved system is designed to send an alert message to monitors indicating a system malfunction.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato **Reviewed By:**
Date:

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Photo 1: Trump Golf Links Comfort Station

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Photo 2: Control System Installed.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sun with increasing clouds** **Wind: light** **Humidity** High Med Low

Date: March 14, 2018 Time: 0900 - 1130 **Temp: 40 - 45** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G

Active Site Work Areas: Construction site for Clubhouse

Activities included: general work tasks being performed by subcontractors; weekly construction meeting, erosion control inspections

Site Work Progress:

General work tasks being performed by contractors; weekly erosion control inspections performed. No soil importation today. No SSDS work by EAI. Inspection of former aeration core and excavation areas.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo 1: Construction progress at the new Club House

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Photo 2: Surplus Cover/Shaping material from the Clock Tower electrical trench. Material will be re-used on site and covered

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Snow** **Wind: moderate** **Humidity**

Date: March 21, 2018 Time: 1000 - 1100 High Med Low

Temp: 30 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: No site contractors on-site today. All work cancelled due to weather

Active Site Work Areas: No active site work is being conducted today.

Activities included: weekly construction meeting cancelled. Inspection of erosion control features to the extent practical.

Site Work Progress:

Due to weather, no site work is being performed today. Inspection of former aeration core and excavation areas.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Construction progress at the new Club House

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Photo 2: Soil Stockpile in the parking lot

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: clear, sunny** **Wind: light** **Humidity**

Date: March 23, 2018 Time: 1100 - 1300 High Med Low

Temp: 50 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior work at the new club house continues. General storm clean-up activities have been completed

Activities included: Inspection of erosion control features.

Site Work Progress:

Interior work at the new club house continues.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo 1: Construction progress at the new Club House

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Photo 2: Soil Stockpile in the parking lot. JCS informed to re-tarp the pile.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast** **Wind: light** **Humidity**

Date: March 28, 2018 Time: 0930 - 1200 High Med Low

Temp: 45 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior work at the new club house.

Activities included: Inspection of erosion control features, weekly construction meeting

Site Work Progress:

Interior work at the new club house continues.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo 1: Construction progress at the new Club House

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast/fog/rain** **Wind: light** **Humidity**

Date: April 4, 2018 **Time: 0930 - 1400** High Med Low

Temp: 45 - 50 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior work at the new club house.

Activities included: Inspection of erosion control features, weekly construction meeting, oversight of new cart path excavations.

Site Work Progress:

Interior work at the new club house continues. Excavation for new cart path installation at the rear of the clubhouse.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo 1: Stakes marking out the proposed new cart path at the rear of the new club house.

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Photo 2: shallow excavations in cover material for the installation of the new cart path.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather:clear skies** **Wind: windy/gusty** **Humidity**

Date: April 5, 2018 **Time: 0800 - 1530** High Med Low

Temp: 45 - 50 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior work at the new club house.

Activities included: Inspection of erosion control features, oversight of new cart path excavations, soil importation

Site Work Progress:

Interior work at the new club house continues. Excavation for new cart path installation at the rear of the clubhouse continues. Soil importation: soils from NY Recycling, transporation by IEV Trucking. Total imported today 135 cubic yards in 5 loads.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Shallow excavations for new cart path along the 18th fairway at rear of new clubhouse.

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Photo 2: Third of five (5) 27 cubic yard loads delivered today. Total 135 cubic yards delivered today.

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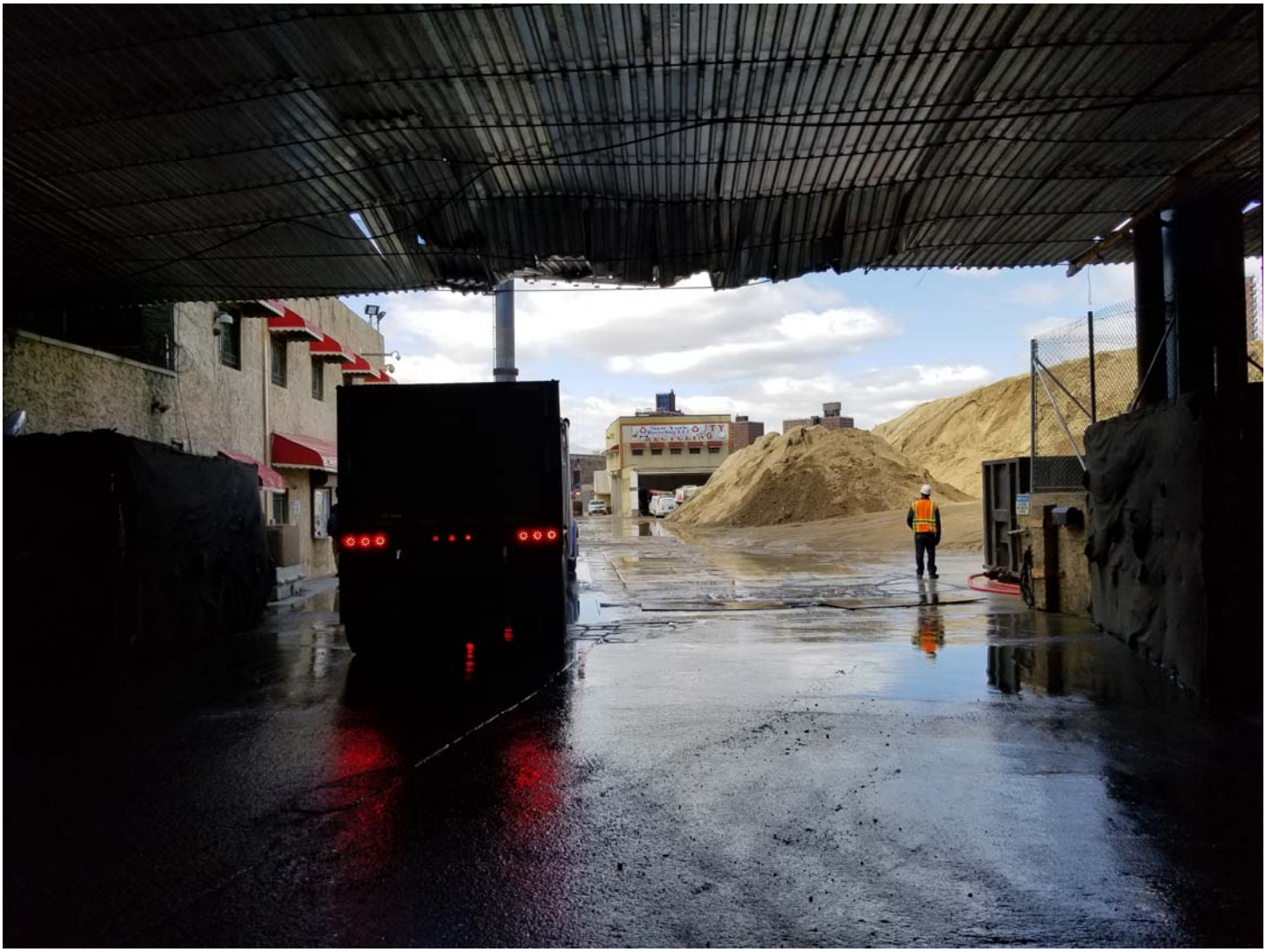

Photo 3: IEV Truck at New York Recycling for soil pick-up.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly clear skies** **Wind: breezy** **Humidity**

Date: April 9, 2018 **Time: 0930 - 1200** High Med Low

Temp: 45 - 50 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior work at the new club house.

Activities included: Inspection of erosion control features, oversight of new cart path excavations, soil stockpile in parking lot

Site Work Progress:

Interior work at the new club house continues. Excavation for new cart path installation at the rear of the clubhouse continues. Soil from the parking lot was originally scheduled to be re-used on site today. Contractor reports that parking lot soil stockpile might be used later in the week or next week. .

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Shallow excavations for new cart path along the 18th fairway at rear of new clubhouse.

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Photo 2: View of club house rear yard with new cart path being installed.

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Photo 3: Soil pile from the parking area is schedule for re-use on site in the near future. This material is classified as shaping material.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: most sunny skies** **Wind: light breeze** **Humidity**

Date: April 11, 2018 **Time: 0930 - 1430** High Med Low

Temp: 45 - 55 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior work at the new club house.

Activities included: Inspection of erosion control features, oversight of new cart path excavations, soil stockpile in parking lot

Site Work Progress:

Interior work at the new club house continues. Excavation for new cart path installation at the rear of the clubhouse continues. Soil from the parking lot was originally scheduled to be re-used on site this week. Contractor reports that parking lot soil stockpile might be used later in the week or next week. Soil which was imported from NY Recycling last week is being distributed at the rear of the clubhouse to bring elevations closer to final grade.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Shallow excavations for new cart path along the 18th fairway at rear of new clubhouse.

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Photo 2: View of club house rear yard with new cart path being installed.

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Photo 3: Soil pile from the parking area is schedule for re-use on site in the near future. This material is classified as shaping material.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: most cloudy skies** **Wind: light breeze** **Humidity**

Date: April 18, 2018 **Time: 0930 - 1430** High Med Low

Temp: 45 - 55 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Activities included: Inspection of erosion control features, oversight of new cart path excavations, soil stockpile in parking lot, weekly construction meeting and trenching for installation of storm water system

Site Work Progress:

Interior work at the new club house continues. There were no new excavations for new cart path installation at the rear of the clubhouse. Soil from the parking lot was originally scheduled to be re-used on site this week. This work has been delayed until next week. Contractor will provide Maser with advanced notice of the work schedule. Trenching for the installation of pipe for the stormwater system is underway. Trenching is through soils imported from NY Recycling. No indication of any MSW or debris in the trenches. No odors or PID readings.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo 1: Shallow excavations for stormwater transmission at front of new clubhouse.

Photo 2: View of club house rear yard in area of new cart path.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: most sunny skies** **Wind: light breeze** **Humidity**

Date: April 23, 2018 **Time: 1300 - 1600** High Med Low

Temp: 60 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Activities included: oversight of new cart path installation

Site Work Progress:

Interior work at the new club house continues. There were no new excavations for the cart path installation at the rear of the clubhouse. However a 6-inch layer of crushed stone and 4 inches of asphalt was installed along a 600 foot long pathway at the rear of the club house for the new cart path. A 2-inch thick layer of sealing material will be applied over the asphalt according to the contractor. Once completed, this will bring the total cover thickness to 12-inches. Soil from the parking lot stockpile remains in the parking lot—although there are plans to re-use this material on the construction site soon. Contractor will provide Maser with advanced notice of the work schedule. Trenching for the installation of pipe for the stormwater system has been completed. There were no obsevations of MSW, the demarcation barrier or debris in the trenches. Surplus materials are being stockpiled and temporarily covered before re-use on site. No odors or PID readings recorded.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo 1: New golf cart path at rear of new Club House.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: rain** **Wind: breezy** **Humidity**

Date: April 25, 2018 **Time: 1200 - 1400** **Temp: 50** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, EAI

Active Site Work Areas: Interior and exterior work at the new club house.

Activities included: installation of SSDS piping inside the new clubhouse

Site Work Progress:

EAI informed Maser (via e-mail this morning) that they would be in-site today to resume installation of the piping in the SSDS system. Work involved the SSDS pit on the southern side of the builing

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: New SSDS piping and blower installation above the new offices at the Club House.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: most sunny skies** **Wind: breezey** **Humidity**

Date: April 26, 2018 **Time: 1000 - 1500** High Med Low

Temp: 55-65 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, EAI

Active Site Work Areas: Interior and exterior work at the new club house.

Activities included: weekly construction meeting, movement of soils, SSDS piping, blower and monitor installation. Inspection of Erosion Control meaures.

Site Work Progress:

EAI resumed the installation of SSDS piping by installing the riser on the northern SSDS pit into the utility spaces above the new offices. Piping for the southern SSDS pit was also configured and later connected to the SSDS blower. SSDS monitors were also installed. SSDS Sensors will be installed once their proposed new locations are reviewed and approved.

Soils (imported earlier from NY Recycling) were relocated from the front of the clubhouse to the rear of the building—to elevate the grade levels. Soils from the parking lot stockpile remain in-place in the parking lot.

Minor trenching work was implemented for the irrigation system between the club house and the new cart path. Excavations were shallow (12”) and through soils that were relocated to the rear of the building—with no potential to encounter MSW.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo 1: SSDS monitors installed in the utility space above the new offices.

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Photo: 2 SSDS blower installed in the utility space above the new offices.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: light rain** **Wind: light** **Humidity**

Date: April 27, 2018 **Time: 1300 - 1430** **Temp: 55** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, EAI

Active Site Work Areas: Interior and exterior work at the new club house.

Activities included: EAI running electrical conduits for the SSDS sensors.

Site Work Progress:

EAI continued the installation of SSDS components by installing the electrical conduits for the sensors above the ceiling of the new offices, bathrooms etc. The actual SSDS Sensors will be installed once their proposed new locations are reviewed and approved.

There was no re-use of the soil stockpile in the parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: SSDS monitors installed in the utility space above the new offices.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: hot & humid** **Wind: light** **Humidity**

Date: May 4, 2018 **Time: 1300 - 1430** **Temp: 75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Activities included: Grading of area behind the clubhouse. Installation of filter fabric to provide drainage channels--prior to movement of soils from soil stock-pile in the parking lot.

Site Work Progress:

No new work on the SSDS this week. Some grading at the rear of the clubhouse took place today to accommodate the eventual movement of stockpiled soils from the parking lot to the rear of the clubhouse. Installation of filter fabric at the rear of the clubhouse—between club house and the new cart path.

There was no re-use of the soil stockpile in the parking lot this week.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: grading activities at the rear of the clubhouse .

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Photo #2: installation of filter fabric and crushed stone to facilitate drainage.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: warm & sunny** **Wind: light** **Humidity**

Date: May 7, 2018 **Time: 1200 - 1430** High Med Low

Temp: 75 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, Rinaldi

Active Site Work Areas: Interior and exterior work at the new club house.

Activities included: Re-use of soil stockpile in the parking lot; transport material to rear of clubhouse and used to increase the grade elevation.

Site Work Progress:

Contractor Rinaldi used a backhoe and small dump truck to begin the re-use process for soils stockpiled in the parking lot for the past several months. Soils were transported to the rear (eastern side) of the clubhouse and used to increase the grade elevation. Additional material is planned to be moved to the northern side of the clubhouse of the next several days or weeks.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: reuse of parking lot soils.

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Photo #2: re-use of parking lot soils to elevated grade at the rear of the clubhouse.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: warm & sunny** **Wind: light** **Humidity**

Date: May 8, 2018 **Time: 1000 - 1430** High Med Low

Temp: 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, Rinaldi

Active Site Work Areas: Interior and exterior work at the new club house.

Activities included: Re-use of soil stockpile in the parking lot; transport material to rear of clubhouse and used to increase the grade elevation.

Site Work Progress:

Contractor Rinaldi used a backhoe and small dump truck to begin the re-use process for soils stockpiled in the parking lot for the past several months. Soils were transported to the rear (eastern side) of the clubhouse and used to increase the grade elevation.

Weekly Erosion Control Inspections were conducted.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

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Photo 1: re-use of soils from parking lot stockpile for grading activities at the rear of the clubhouse .

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Photo #2: remaining soils in parking lot.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: warm & sunny** **Wind: light** **Humidity**

Date: May 16, 2018 **Time: 0900 - 1330** High Med Low

Temp: 75 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, Rinaldi, EAI

Active Site Work Areas: Interior and exterior work at the new club house.

Activities included: Re-use of soil stockpile in the parking lot; transport material to rear of clubhouse and used to increase the grade elevation.

EAI continues installation of SSDS components including sensors and monitors

Site Work Progress:

Contractor Rinaldi used a backhoe and small dump truck to begin the re-use process for soils stockpiled in the parking lot for the past several months. Soils were transported to the rear (eastern side) of the clubhouse and used to increase the grade elevation.

EAI continues work on SSDS component installations.

Weekly Erosion Control Inspections were conducted.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo 1: re-use of soils from parking lot stockpile for grading activities at the rear of the clubhouse .

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Photo #2: remaining soils in parking lot.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast** **Wind: light** **Humidity**

Date: May 23, 2018 **Time: 0900 - 1430** **Temp: 60** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, Rinaldi, EAI

Active Site Work Areas: Interior and exterior work at the new club house.

Activities included: Re-use of soil stockpile in the parking lot; transport material to rear of clubhouse and used to increase the grade elevation.

EAI continues installation of SSDS components including sensors and monitors

Site Work Progress:

Contractor Rinaldi used a backhoe and small dump truck to begin the re-use process for soils stockpiled in the parking lot for the past several months. Soils were transported to the rear (eastern side) of the clubhouse and used to increase the grade elevation.

EAI continues work on SSDS component installations.

Weekly Erosion Control Inspections were conducted.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: re-use of soils from parking lot stockpile for grading activities at the rear of the clubhouse .

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Photo #2: Methane Sensor in ball room ceiling.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny** **Wind: light** **Humidity**

Date: May 25, 2018 **Time: 0900 - 1400** High Med Low

Temp: 70-75 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, EAI, Spinella Landscaping/Dynamic Environmental

Active Site Work Areas: Interior and exterior work at the new club house.

Importation of top soil for landscape beds on the western side (front) of the clubhouse. Topsoil was delivered by Dynamic Environmental Contractors from Spinella Landscaping Long Island, NY.

EAI continues installation of SSDS components including sensors and monitors

Site Work Progress:

Five, 30 yard loads of topsoil was delivered to the site from a commercial landscape source.

Installation of new sewer pump on the southern side of the clubhouse. Excavation did not encounter any MSW or demarcation Barriers. No PID readi ngs were measured above background concentrations.

EAI continues work on SSDS component installations.

Weekly Erosion Control Inspections were conducted.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: installation of new sewer pump/housing on southern side of clubhouse. No demarcation barrier or MSW was encountered.

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Photo #2:Topsoil importation from Spinella Landscaping.

Photo #3: Methane sensor installation by EAI.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast, drizzle** **Wind: light** **Humidity**

Date: May 31, 2018 **Time: 1000 - 1430** **Temp: 60** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, EAI

Active Site Work Areas: Interior and exterior work at the new club house.

The previous sewer pump installation was found to have been performed incorrectly. The unit will have to be re-excavated, re-oriented and piped.

Con Ed is on site for the installation of natural gas supply lines to the new club house. Trenching was performed to facilitate gas pipe installation. Excavations were shallow and through materials that were previously imported from NY Reclycling. Excavations did not encounter any demarcation barriers, MSW or debris. No odors or PID readings were recorded.

EAI continues installation of SSDS components including sensors and monitors. EAI reinstalled the suction blower on the southern side of the club house—which had been dismantled to allow the trades to install components of the HVAC-without interference.

Site Work Progress:

EAI continues work on SSDS component installations. Senors and monitors were installed. Sampling and calibration lines were prepared for installation.

Trenching for gas line installation was performed on the western (front) side of the clubhouse. Con Ed will be installing the servce line.

Weekly Erosion Control Inspections were conducted.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo 1: Topsoil from Spinella Landscaping staged on site for use in the landscape beds on the western side of the clubhouse.

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Photo #2: Trenching for gas line installation by Con Ed (western side of clubhouse)

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Photo #3: Suction blower re-installed—southern side of the clubhouse.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: partly cloudy** **Wind: light** **Humidity**

Date: June 1, 2018 **Time: 0900 - 1430** High Med Low

Temp: 75 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Continued movement of soils from the parking to lot the berm on the northwestern side of the new club house.

Site Work Progress:

EAI continues work on SSDS component installations. Senors and monitors were installed. Sampling and calibration lines were prepared for installation.

Trenching for gas line installation on the western (front) side of the clubhouse has been completed. Sewer pump installation is on-going on the southern side of the building.

Weekly Erosion Control Inspections were conducted.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo 1: Remnants of parking lot soil pile being moved to the construction site.

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Photo #2: Material being moved to the berm on the northwestern side of the clubhouse.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: partly cloudy** **Wind: light** **Humidity**

Date: June 6, 2018 **Time: 1300 - 1700** High Med Low

Temp: 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Continued movement of soils from the parking to lot the berm on the northwestern side of the new club house.

Inspections of SSDS components.

Meeting with NYSDEC –requirements for clubhouse opening June 11.

Site Work Progress:

in preparation for the meeting with NYSDEC, compliance inspections were conducted on the SSDS components.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Remnants of parking lot soil pile being moved to the construction site.

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Photo #2: Southern SSDS stack on roof of the new club house.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: partly cloudy** **Wind: light** **Humidity**

Date: June 7, 2018 **Time: 0930 - 1300** **Temp: 70** °F (High) Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, Woodard Curran, EAI

Active Site Work Areas: Interior and exterior work at the new club house.

Continued movement of soils from the parking to lot the berm on the northwestern side of the new club house.

Inspections of SSDS components and testing of suction blowers and sub-slab monitoring ports by EAI and WC.

Site Work Progress:

EAI and Woodard Curran tested the suction blowers and select sub-slab monitoring ports for the presence of a vacuum beneath the building. Ports on the northeastern and southwestern sides of the new clubhouse were tested. Vacuum pressures greater than -1 inch of water were record at both locations indicating the SSDS is functioning as designed.

Only a few yards of soil remains in the parking lot.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Remnants of parking lot soil pile being moved to the construction site.

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Photo #2: Clock tower relocation has been completed.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly cloudy** **Wind: light** **Humidity**

Date: June 8, 2018 **Time: 1300 - 1600** High Med Low

Temp: 75 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Work progress on the re-installation of the sewer pump on the southern side of the clubhouse. No MSW, demarcation barrier or waste was encountered during the excavavtions.

Site Work Progress:

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components.

Paving of the delivery and cart path areas on the northern side of the club house continues.

Only a few yards of soil remains in the parking lot.

Erosion Control inspections were performed.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo 1: Paving operations in progress.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny, clear** **Wind: breezy** **Humidity**

Date: June 14, 2018 **Time: 1300 - 1600** High Med Low

Temp: 80 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Site Work Progress:

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components.

Only a few yards of soil remains in the parking lot.

Erosion Control Inspections were completed.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo 1: Typical pressure probe port in floor of banquet hall.

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Photo 2: New Clubhouse following the June 11, 2018 Grand Opening.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast skies** **Wind: breezy** **Humidity**

Date: June 20, 2018 **Time: 0900 - 1200** High Med Low

Temp: 75 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Site Work Progress:

Weekly construction meeting teleconference.

Erosion Control Inspcetions conducted.

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components.

Only a few yards of soil remains in the parking lot.

Erosion Control Inspections completed.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Typical pressure probe port in floor of men's locker room.

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Photo 2: Remnants of soil stockpile in the parking lot.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast skies** **Wind: breezy** **Humidity**

Date: June 27, 2018 **Time: 0930 - 1130** High Med Low

Temp: 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Site Work Progress:

Weekly construction meeting.

Erosion Control Inspcetions conducted.

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components.

Only a few yards of soil remains in the parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Site Traps in parking lot. Maintenance required.

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Photo 2: Remnants of soil stockpile in the parking lot.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny skies** **Wind: breezy** **Humidity**

Date: July 5, 2018 **Time: 0900 - 1330** High Med Low

Temp: 80 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Site Work Progress:

Erosion Control Inspcetions conducted.

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components.

Only a few yards of soil remains in the parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny skies** **Wind: breezy** **Humidity**

Date: July 11, 2018 **Time: 0930 - 1330** High Med Low

Temp: 80 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Site Work Progress:

Weekly construction meeting

Erosion Control Inspcetions conducted.

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components.

Only a few yards of soil remains in the parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: remnants of soil pile from parking lot.

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Photo 2: typical sediment trap. Traps are at approximately 25 to 50% capacity with sand and grass clippings. Maintenance needed and requested.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: cloudy** **Wind: light** **Humidity**

Date: July 17, 2018 **Time: 1200- 1300** **Temp: 90** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS

Active Site Work Areas: Interior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Site Work Progress:

Erosion Control Inspcetions conducted.

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components.

Only a few yards of soil remains in the parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: remnants of soil pile from parking lot.

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Photo 2: service room

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny** **Wind: light** **Humidity**

Date: July 20, 2018 **Time: 1000 - 1200** **Temp: 85** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS

Active Site Work Areas: Interior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Site Work Progress:

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components. Replacement methane sensors are expected form the manufacturer next week.

Only a few yards of soil remains in the parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast** **Wind: moderate**
Humidity

Date: July 25, 2018 **Time: 1000 - 1200** High Med Low
Temp: 75 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS

Active Site Work Areas: Interior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Site Work Progress:

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components. Replacement methane sensors are expected form the manufacturer this week according to EAI.

Only a few yards of soil remains in the parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: intermittent rain** **Wind: moderate**
Humidity

Date: August 1, 2018 Time: 1000 - 1200 High Med Low
Temp: 80 °F

Name of Project: Trump Golf Links – Ferry Point Park Municipality: Bronx, NY Job No: 17002426A

Site Contractors: JCS

Active Site Work Areas: Interior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Site Work Progress:

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components. Replacement methane sensors are expected from the manufacturer this week according to EAI.

Only a few yards of soil remains in the parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: hazy, hot, humid** **Wind: light & variable** **Humidity**

Date: August 8, 2018 Time: 1000 - 1200 **Temp: 90** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS

Active Site Work Areas: Interior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Site Work Progress:

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components. Several replacement methane sensors were reported to have been received by EAI. The balance of the sensors are expected this week. Sensor installation and testing is tentatively scheduled for the week of August 13 thru 17.

Only a few yards of soil remains in the parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: hot & humid** **Wind: light & variable** **Humidity**

Date: August 14, 2018 **Time: 1000 - 1200** High Med Low

Temp: 80 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, EAI

Active Site Work Areas: Interior work at the new club house.

Remnants of the soil stockpile from the parking lot have been removed. Parking lot is now clear of all stockpiled soils.

Site Work Progress:

SSDS blowers are operating. EAI is on-site installing new methane sensors and sensor heads. Testing of the new replacement equipment is also taking place.

All soils stockpiled in the parking lot have been removed. Sediment traps in the stockpile areas have been cleaned and removed. Only one sediment trap remains in an area where equipment is still being staged.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Photo 1: EAI personnel install, calibrate and test replacement methane sensors and heads.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: hot & humid** **Wind: light & variable** **Humidity**

Date: August 15, 2018 **Time: 0900 - 1700** High Med Low

Temp: 85 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Ranco Snad & Stone, Manorville, NY

Active Site Work Areas: All work today was conducted off-site at Ranco Sand & Stone South Street, Manorville (Suffolk Couny), NY

Site Work Progress:

Collection of soil sampls for Cover Material Quality Analyses. Site visit to Ranco Sand & Stone, Manorville, NY.

Samples collected as per Chemical Permit LimitsTable provided by Steve Lauria, Woodard Curran

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Photo 1: Ranco Sand & Stone facility, Manorville, NY.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: partly cloudy** **Wind: breezy** **Humidity**

Date: August 22, 2018 **Time: 1000 - 1230** High Med Low

Temp: 75 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: JCS

Active Site Work Areas: Interior work at the new club house.

Remnants of the soil stockpile from the parking lot have been removed. Parking lot is now clear of all stockpiled soils.

Site Work Progress: SSDS blowers are operating. EAI installed new methane sensors and sensor heads last week. Testing results have been requested.

All soils stockpiled in the parking lot have been removed. Sediment traps in the stockpile areas have been cleaned and removed. Only one sediment trap remains in an area where equipment is still being staged.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo 1: SSDS Control Monitor in New Club House

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DAILY FIELD OBSERVATION REPORT

M T W TH F SA SU **Weather:** Weather **Wind:** 0-5 mph **Humidity** (High Med Low)
Date: 8-24-2018 **Time:** 7:30 **Temp:** 90+

Name of Project: Trump Links Golf Course - Ferry Point **Municipality:** Bronx, NY **Job No:** 17002426C

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Proposed Gas Main installation & excavation

Site Work Progress: Arrived on-site at 7:30am

8:00am - Was informed by that excavation cannot commence until umbrella insurance issue is resolved.

9:00 am laying down plywood and began digging up the telecom line.

10:30am - met with Joe Rodinger. He explained that the demarcation barrier is a caution that says the msw is approximately 1-4 feet below that.

Standard SOP (according to Joe) is that we can dig to depth, replace demarcation barrier with a new one and then sand, pipe, etc.

Demarcation barrier varies from 10"-24". Barrier closest to road has no shaping material on top.

13:15 - Called and spoke to Anthony of Bellisimo, was told I was not needed anymore today.

Remarks: N/A

Site Photographs: Yes **Additional Action Required by Project Mgr. or Eng.: (YES NO)**

Observed By: Vince Carbone **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT

M T W TH F SA SU **Weather:** Weather **Wind:** 0-5 mph **Humidity** (High Med Low)
Date: 8-27-2018 **Time:** 7:30 **Temp:** 90+

Name of Project: Trump Links Golf Course - Ferry Point **Municipality:** Bronx, NY **Job No:**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Proposed Gas Main installation & excavation

Site Work Progress: Arrived on-site at 7:30am

8:00am - Walked down to construction area, the rest of the plywood has been staged on each side of the proposed excavation

Umbrella Insurance policy has not been agreed to, cannot progress without.

Departed site around 13:00 after Joe Rodinger dismissed me.

Remarks: N/A

Site Photographs: Yes **Additional Action Required by Project Mgr. or Eng.: (YES NO)**

Observed By: Vince Carbone **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny** **Wind: breezy** **Humidity**

Date: August 28, 2018 **Time: 0900 - 1500** High Med Low

Temp: 95 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation along the northern side of the golf course just south of Schley Drive.

Site Work Progress: Over 500 linear feet of gas line trench was dug today. Cover material and shaping material was segregated on either side of the trench on plywood sheets for re-use after the gas main is installed.

No readings above background concentration on 4-gas meter or PID. No demarcation barriers or waste materials encountered.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Gas Main Trench along the northern side of the Golf Course south of Schley Drive. Cover and shaping material are segregated on either side of the trench for reuse.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny** **Wind: breezy** **Humidity**

Date: August 29, 2018 **Time: 1000 - 1500** High Med Low

Temp: 95 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation along the northern side of the golf course just south of Schley Drive. Gas main pipeline trench was extended southward to the golf cart path.

Site Work Progress: Gas Line trench was extended to its first intersection with the golf cart path along fairway #6. Cover material and shaping material was segregated on either side of the trench on plywood sheets for re-use after the gas main is installed.

No air monitoring measurements exceeded background concentrations. No waste materials encountered.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo 1: Looking northward, Gas Main Trench along the northern side of the Golf Course south of Schley Drive. Cover and shaping material are segregated on either side of the trench.

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Photo 2: Looking southward, the gas line pipeline route-heading south toward the golf cart path- prior to excavation.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: clear & sunny** **Wind: light & variable** **Humidity**

Date: September 4, 2018 **Time: 1000 - 1400** High Med Low

Temp: 90 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation pipeline: saw cutting in the maintenance area in preparation for trenching.

Also area between Buttrick & Schley is being prepared for pipeline installation by Con Edison.

No PID or four gas meter measurements above background levels.

Site Work Progress: Saw cutting from the cart path into the maintenance area was initiated today (contractor was to have completed this yesterday however they experienced problems with the saw cutting machine).

Con Edison is transporting and staging plastic 6-inch pipe at the trench on the northside of the golf course in preparation for installation.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo 1: Looking southward, Gas Main Trench along the northern side of the Golf Course along golf cart path Fairway #6.

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Photo 2: Saw cutting asphalt in the golf course maintenance area (north side of maintenance building).

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DAILY FIELD OBSERVATION REPORT

M T W TH F SA SU **Weather:** Weather **Wind:** 0-5 mph **Humidity** (High Med Low)
Date: 9-5-2018 **Time:** 7:30 **Temp:** 90+

Name of Project: Trump Links Golf Course - Ferry Point **Municipality:** Bronx, NY **Job No:** 17002426C

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Proposed Gas Main installation & excavation

Site Work Progress: Arrived on-site at 7:30am

Upon arrival, gas meter located in Chris' office was not working. Called Pine Environmental and had them deliver a new one.

7:45am - Began preliminary observations, asphalt in front on maintenance garage has been saw cut, had to offset in fron of bay door No. due to natural gas cap.

8:30am - ConEd arrived on-site.

9:15am - Orange Demarcation barrier is being laid down in trench (See attached map for location) (BLUE AREA)

9:20am - 3" of sand is being laid on top of orange demarcation barrier (Checking with measured broom stick handle)

10:00am - Anthony (Bellisimo) began removal asphalt layer from north and east side of the maintenance garage.
10:10am - Measured trench in asphalt - ranged from 36"-42"

Remarks: N/A

~~11:00am - Spoke to ConEd workers, they explained the bonding process. 20 min of intense heat (400-450 degrees)~~ to bond two sections together and 20 minutes for the pieces to cool down before they can be placed in trench.

11:15am - Anthony (Bellisimo) began trenching across golf cart path (See attached map, YELLOW AREA). Steel plate placed over trench.

11:40am - Pine Environmental delivered new gas meter

12:00pm - ConEd front loader broke down, need to replace with new one

13:30pm - New front loader arrives and bonding continues
14:30 - Anthony (Bellisimo) was trenching along east side of maintenance garage. Exposed current 4"gas line (See attached map, GREEN AREA)

15:40pm - Orange demarcation barrier has been laid with 3" of sand on top from Buttrick Avenue to where the trench first crosses the golf cart path (See attached map)

15:45pm - 8 sections of new 6" gas pipe has been bonded and placed in trench.

16:30pm - Trenching has ended for the day

Site Photographs: Yes **Additional Action Required by Project Mgr. or Eng.: (YES NO)**

Observed By: Vince Carbone **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny/Slightly Cloud** **Wind: light to mild** **Humidity**

Date: September 6, 2018 **Time: 0900 - 1630** High Med Low

Temp: 90 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation pipeline: saw cutting, trenching, and backfilling in the maintenance area.

Piping welded from Buttrick & Schley Ave to the cart path on Fairway #6 for pipeline installation by Con Edison.

No PID or four gas meter measurements above background levels.

Site Work Progress: The trench on the northeastern and northwestern sides of the maintenance building were backfilled with a minimum of 3" of clean fill. Thickness of the fill measured every 10' throughout an estimated ~170 LF trench. Trench on the northwestern side was extended 10 – 20 LF by cutting asphalt and excavating soil material nearby.

Con Edison welding and installing plastic 6-inch pipe at the trench on the northside of the golf course . Note: Areas with <18" of soil above the pipe require steel section above the pipe.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Photo 1: Trench Along the west side of Maintenance Building.

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Photo 2: Trench Along Maintenance Building prepared for Backfill.

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Photo 3: Con-Ed Welding & Installation Staging Area north side of golf course.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: cloudy** **Wind: breezy** **Humidity**

Date: September 7, 2018 **Time: 1100 - 1630** High Med Low

Temp: 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation along the northern and western sides of the maintenance facility. Testing of fittings and connections by RECONN. Gas main pipeline trench was saw cut and extended southward toward the golf cart path near the 8th tee box.

Site Work Progress: Pipeline pressure tests conducted by Con Edison. All fittings, joints and welds tested for integrity by RECONN.

No air monitoring measurements exceeded background concentrations.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo 1: Con Ed laborers preparing to install gas line along the northern side of the maintenance facility.

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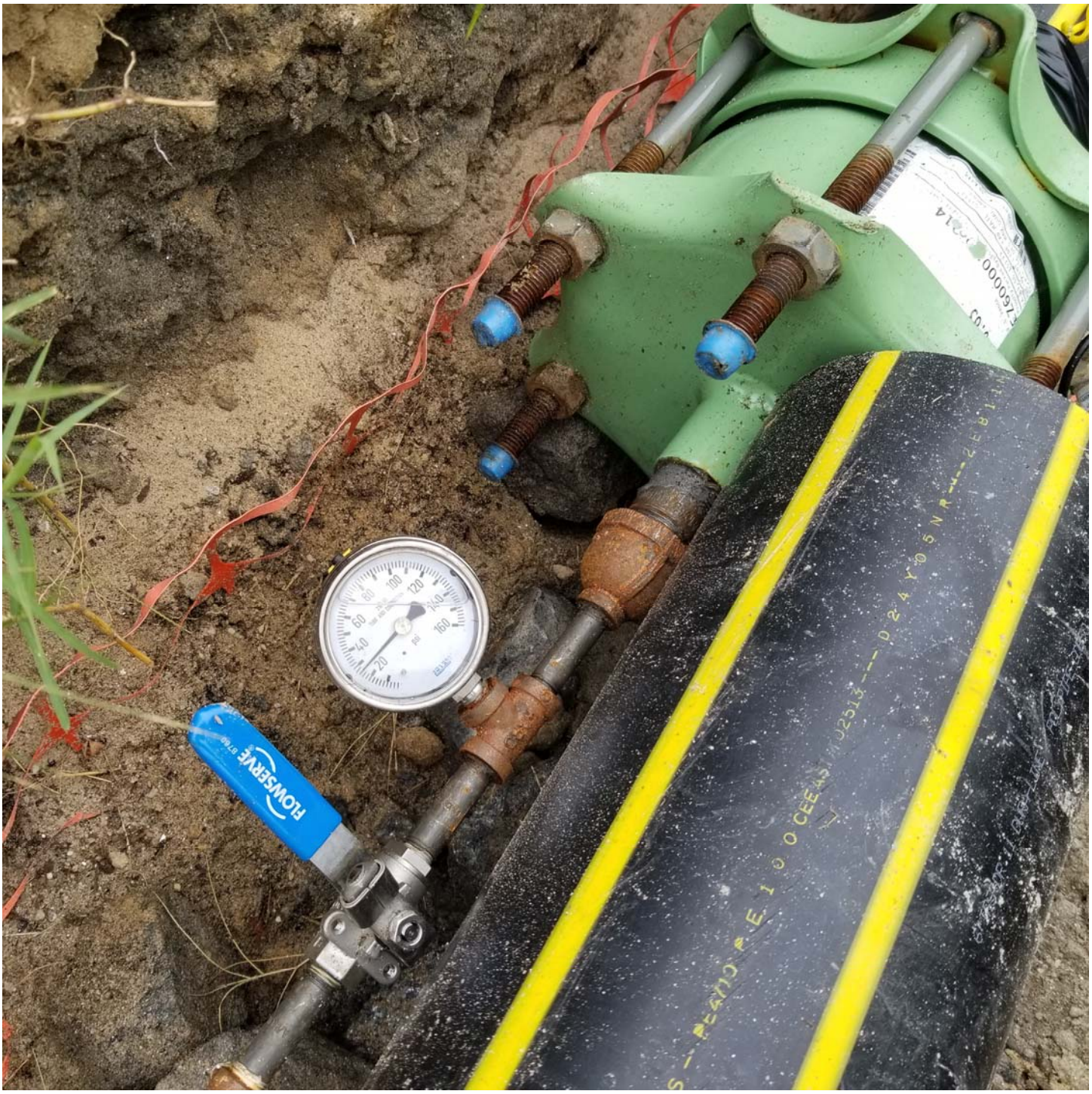

Photo 2: Pressure tesing of the newly installed 6-inch gas line.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: rain** **Wind: breezy** **Humidity**

Date: September 10, 2018 **Time: 1100 - 1530** High Med Low

Temp: 55 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation along the northern and western sides of the maintenance facility. Testing of fittings and connections by RECONN. Gas main pipeline trench was saw cut and extended southward toward the golf cart path near the 8th tee box. Pipeline installed.

Site Work Progress: Gas Line trench was extended to its first intersection with the golf cart path along fairway #8. Backfilling of pipeline in trenches on the northern and western sides of the maintenance facility. Weather slowed the progress of work today. All pipes that could be installaed, were installed.

No air monitoring measurements exceeded background concentrations.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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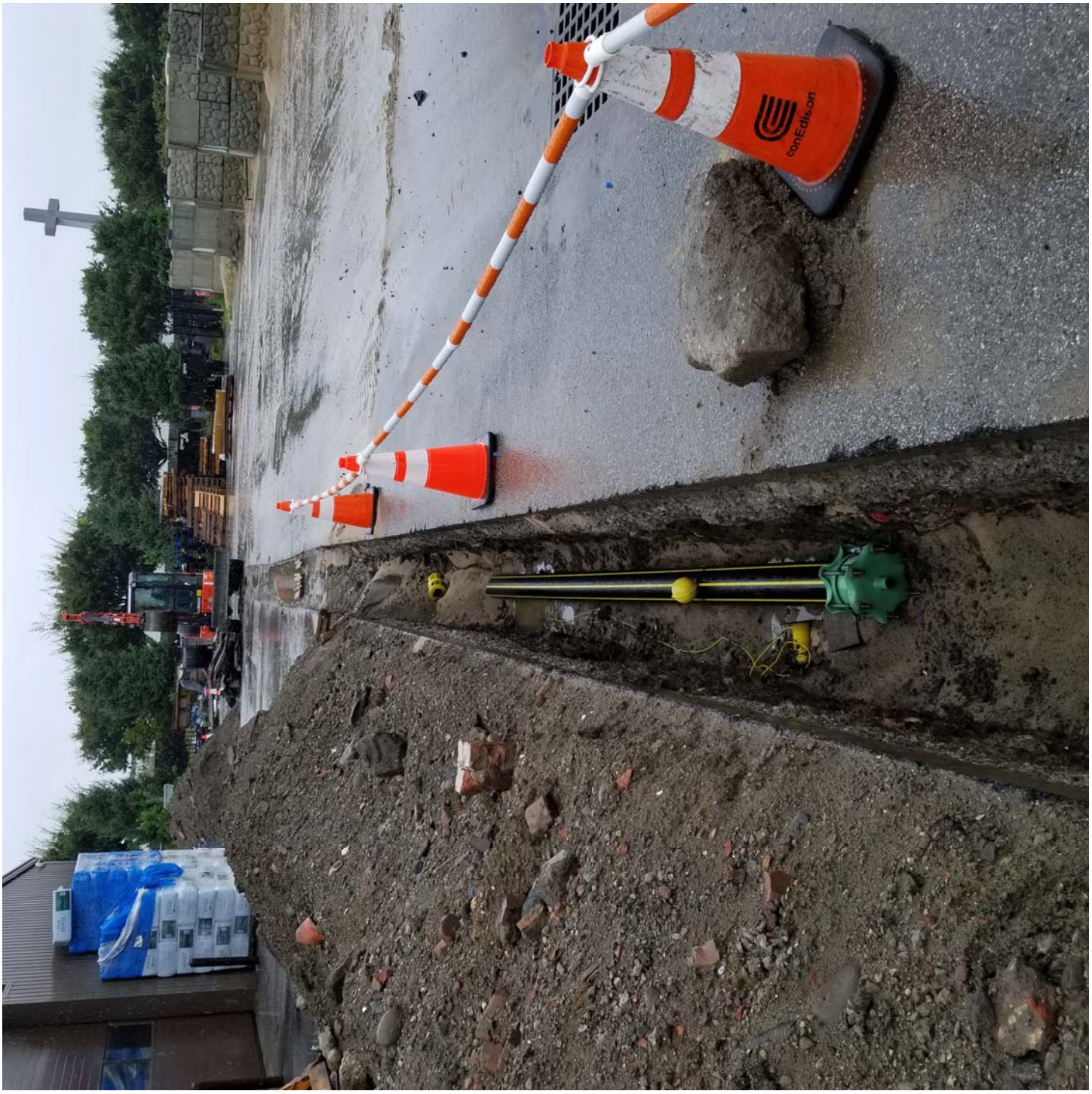

Photo 1:Gas line along the northern side of the maintenance facility.

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P **Photo 2 :Pipeline installation along the west side of the maintenance building.**

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast with occasional drizzle** **Wind: calm** **Humidity**

Date: September 11, 2018 **Time: 1030 - 1530** High Med Low

Temp: 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation along the northern side of the maintenance facility northward toward the 7th fairway. Testing of fittings and connections by RECONN. Gas main pipeline along fairway #6 was backfilled to specifications. Approximatley 450 linear feet of backfill was completed today.

Site Work Progress: Backfilling of pipeline from the northern side of the golf course southward toward the cart path along Fairway #6. Pipeline installation continued from the maintenance facility northward toward the 7th Tee Box.

No air monitoring measurements exceeded background concentrations.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo 1:Gas line along the northern side of the maintenace facility.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy/Slightly Rainy** **Wind: light to mild** **Humidity**

Date: September 12, 2018 **Time: 0900 - 1700** High Med Low

Temp: 60 - 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation pipeline - Backfilling in the Trenches North of Maintenance Garage

Piping welded around trench bends for installation by Con Edison.

No 4-gas meter measurements above background levels.

Site Work Progress: Trenches in various locations were backfilled north of the maintenance building. Toward the northern end of the course near Buttrick & Dewey Ave prior backfilling and near the maintenance building area, clean cover sand was backfilled to a minimum of 3" thick above the gas pipe and shaping material soil was covered over. Areas near the intersection of the golf course were backfilled with a minimum of 3" thick clean fill sand at the base of the trench. Thickness of the clean fill above and below pipes were measured every 10' throughout the trench.

79,500 lbs of clean cover fill from Ranco Sand & Stone was delivered to the site and stored at the maintenance building.

Con Edison welded and installed plastic 6-inch pipe at trench bends near the trail intersection of the gas installation .

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Photo 1: Northern Trench Near Buttrick and Dewey Ave Backfilled to Grade with Shaping S

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Photo 2: Northern Trench Near Maintenance Building Backfilled to Grade with Shaping Soil

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy/Slightly Rainy** **Wind: light to mild** **Humidity**

Date: September 13, 2018 **Time: 0800 - 1500** High Med Low

Temp: 60 - 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation pipeline – Excavating Trenches South of Maintenance Garage toward clubhouse

Piping welded around trench bends for installation by Con Edison.

No 4-gas meter measurements above background levels.

Site Work Progress: Roughly 500' of trench south of the maintenance building from the rear entrance along the path to the clubhouse was excavated. Trench depth ranged from 30 – 40" below ground surface. Near the fence line of the trench, gravel, plastic piping, and plastic liner was encountered. Roughly 10' of perforated pipe was damaged during the disturbance. The contractor (Anthony) was notified to repair the drainage area. Unmarked utilities were also encountered, but were not damaged. All materials were stocked onto plywood panels adjacent to the trench. Shaping layer soil was placed on one side of the trench, while cover sand was placed on the oppostie side for later backfilling.

Excess shaping material from backfilling activities was stockpiled in the bin northwest end of the maintenance building.

Con Edison continued welding and installing plastic 6-inch pipe at trenches north of the maintenance building.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Photo 1: Trench South of Maintenance Building Along Hutchinson River Parkway service road.

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Photo 2: Damaged Perforated Piping from Drainage Area. Repairs were made.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: Cloudy/Slightly Sunny** **Wind: light to mild** **Humidity**

Date: September 14, 2018 **Time: 0800 - 1500** High (Med) Low

Temp: 60 - 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation – Excavating Trenches South of Maintenance Garage toward clubhouse, Backfilling Trenches North of Maintenance Garage

Piping installed in southern trenches by Con Edison.

No 4-gas meter measurements above background levels.

Site Work Progress: Roughly 400' of trench south of the maintenance building along the western property line was excavated. Trench depth ranged from 30 – 40" below ground surface. Gravel, plastic piping, and plastic liner was encountered. Roughly 2' of perforated pipe was damaged during the disturbance. The contractor (Anthony) was notified to repair the drainage area. Portions of the trench were primarily composed of gravel from a drainage system and will be backfilled. Asphalt was cut and concrete was broken on the eastern rear gate prior to trenching. All materials were stocked onto plywood panels along the trench. Shaping layer soil was placed on one side while cover sand soil was placed on the other.

Roughly 20' of clean cover soil was backfilled over piping in trenches north of the maintenance building to a minimum thickness of 3". Caution tape was placed on top of the backfilled sand.

Con Edison performed a pressure tests on the pipeline sections near the automated gate located south of the maintenance garage. The test was successful with no leaks in the system. Plastic 6" pipe was installed in the trenches south of the maintenance building. The trench was not backfilled with 3" minimum of bedding. Anthony and Con Edison were notified that clean cover sand must be backfilled on the bedding of the trench either prior to installation or worked around the piping. Con Edison responded that the bedding will be installed.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By:
Date:

Customer Loyalty through Client Satisfaction.

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Photo 1: Trench South of Maintenance Building Along Hutchinson River Parkway service road.

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Photo 2: Piping Installed in Trench near Rear Entrance Gate, Asphalt and Concrete to be Trenched.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny/Slightly Cloudy** **Wind: light to mild** **Humidity**

Date: September 13, 2018 **Time: 0800 - 1500** **Temp: 60 - 70** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation pipeline – Excavating Trenches South of Maintenance Garage toward clubhouse, Backfilling Trenches North of Maintenance Garage

Piping installed in southern trenches by Con Edison.

No 4-gas meter measurements above background levels.

Site Work Progress: Roughly 250' of trench south of the maintenance building was excavated. The trench was generally 36" below ground surface. Roughly 6' of perforated pipe was observed to be damaged during the trenching. The contractor (Anthony) was notified to repair the drainage areas prior.

Asphalt was cut and concrete was broken up near the rear gate prior to trenching. Broken up asphalt and concrete were stockpile separately for disposal. Remaining materials were stockpiled onto plywood panels along side the trench.

Clean cover soil was backfilled over 80 linear feet of piping in trenches north of the maintenance building to a minimum thickness of 3". Caution tape was placed on top of the backfilled sand.

Plastic 6" pipe at trenches south of the maintenance building were installed. The trenches were not initially backfilled with 3" minimum of bedding. Anthony and Con Edison are aware that clean cover sand must be backfilled on the bedding of the trench either prior to installation or worked around the piping. Con Edison responded that the bedding will be installed.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Photo 1: Trench South of Maintenance Building Along Hutchinson River Parkway service road (~1/2 Length from Rear Gate to Clubhouse, Gravel & Runoff Sand Excavated and stockpiled).

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Photo 2: Trench Between Buttrick & Dewey Ave and trail Crossroad backfilled with minimum of 3" thick clean Sand (Backfill subsequently leveled and caution tape placed above).

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather; Variable with heavy rains** **Wind: moderate** **Humidity**

Date: September 18, 2018 **Time: 1000 - 1400** **Temp: 75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation and Trenching along the cart path adjacent to Fairway #8.

No 4-gas meter measurements above background levels.

Site Work Progress: Work was slowed to to heavy rains that were once Hurricane Florence. Trenching was advanced on the western side of the cart path near Fairway #8. Con Edison installed 6-inch gas line sections along this same route. Section couplings were tested and approved by RECONN.

Trenching operation is approximately 800 feet ahead of the pipeline installation.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Con Edison installing 6 inch pipeline section west of the cart path near Fairway #8.

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Photo 2: Trench on the east side of the cart path adjacent to Fairway #6 is backfilled.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather; mostly sunny and warm** **Wind: light & variable** **Humidity**

Date: September 19, 2018 **Time: 1000 - 1500** **Temp: 70-75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation and Trenching along the cart path adjacent to Fairway #8.

No 4-gas meter measurements above background levels.

Site Work Progress: Gas line installation work continued along the utility cart path adjacent to Fairway #8. Con Edison crews were short manpower as most were getting re-certified for pipeline work installations. Bellisimo continued trenching and backfilling as appropriate.

To date: approximately 4,000 feet has been trenched; 2,800 feet has had pipeline installed, pressure tested and backfilled; 900 feet of open trench with pipe tested but not backfilled; 300 feet of open trench ready for pipeline installation.

Approximatley 1,000 feet of trenching remains.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather; mostly sunny** **Wind: light & variable** **Humidity**

Date: September 20, 2018 **Time: 1000 - 1500** **Temp: 70 °F** High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation and Trenching along the cart path adjacent to Fairway #8 up to the intersection with the parking lot.

No 4-gas meter measurements above background levels.

Site Work Progress: Gas line installation work continued along the utility cart path adjacent to Fairway #8 and up to the parking lot. Con Edison crews worked to weld, install and pressure test to pipe sections-monitoring by RECONN. Bellisimo continued trenching and backfilling as appropriate.

To date: approximately 4,500 feet has been trenched

Approximatley 500 feet of trenching remains. Trump is awaiting word from the engineer how close the new pipeline needs to to get to the new clubhouse to have sufficient gas supply.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT

M T W TH F SA SU **Weather: Cloudy** **Wind: 10-15mph** **Humidity** (High Med Low)
Date: 9/21/2018 **Time: 7:30am**
Temp: 65 degrees

Name of Project: Trump Links Gas Main **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Bellisimo Construction, ConEdison

Active Site Work Areas:

Site Work Progress: **Trenching began along west side of entrance to service road.**
Trenching extended to wrap around to the front of the "Trump Links" sign
Began ripping up asphalt to connect to current gas box
Encountered water from either irrigation lines or rainfall in trench
ConEd connected gas main and pressure tested it (Passed)
Backfilled areas include only across the service road to allow access for cars

Remarks: N/A

Site Photographs: Yes **Additional Action Required by Project Mgr. or Eng.: (YES NO)**

Observed By: VJC **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather; mostly cloudy & wiindy** **Wind: windy** **Humidity**

Date: September 24, 2018 **Time: 1000 - 1500** **Temp: 60-65** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation and Trenching extended to the Trump Links sign and across the driveway to the gas vault. Con Edison continued to weld sections of pipeline, install and test with RECONN inspections.

No 4-gas meter measurements above background levels.

Site Work Progress: Gas line installation trenching is almost completed. Con Edison crews worked to weld, install and pressure test pipe sections-monitoring by RECONN. Bellisimo continued trenching and backfilling as appropriate.

To date: approximately 5,000 feet has been trenched

Con Edison engineer indicated that the because a 6-inch line was intstalled instead of a 4-inch line there will be a sufficient volume of fuel for the new clubhouse.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Gas Main Trench is extended beyond the Trump Links Sign to the existing gas vault.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: heavy rain** **Wind: gusty** **Humidity**

Date: September 25, 2018 **Time: 1200 - 1500** **Temp: 65-70** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation and Trenching in front of New Club House

No 4-gas meter measurements above background levels.

Site Work Progress: Heavy rain hampered work progress today.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 Trenching in front of the new club house.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny & warm** **Wind: light & variable** **Humidity**

Date: September 26, 2018 **Time: 1200 - 1500** **Temp: 75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison

Active Site Work Areas: Gas Main Installation and Trenching in front of New Club House. Attempts made to locate existing gas service to connect it to the new 6 inch main.

No 4-gas meter measurements above background levels.

Site Work Progress: Backfilling of trench in front of new clubhouse after pipeline installation and testing by Con Edison. Locate existing 2-inch service line so that it can be connected to the new 6-inch gas main.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 Trenching in front of the new club house in the vicinity of the existing 2-inch service line.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny & warm** **Wind: calm** **Humidity**

Date: October 1, 2018 **Time: 1200 - 1400** **Temp: 70** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: topping of backfilled areas with cover material to bring grade a minimum of 27" above the top of the gas line. Cover material was imported from Ranco Sand & Stone.

No 4-gas meter measurements above background levels.

Site Work Progress: areas of the gas line on the northern side of the golf course were prepared with cover material. Work areas include the gas line route along Fairways #6 and #7.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 Cover material from Ranco Sand & Stone placed over the gas line to provide adequate cover thickness.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny & warm** **Wind: calm** **Humidity**

Date: October 2, 2018 **Time: 1200 - 1400** **Temp: 75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: topping of backfilled areas with cover material to bring grade a minimum of 27" above the top of the gas line. Cover material was imported from Ranco Sand & Stone. Miscellaneous work throughout the job site as Con Edison was not on-site today.

No 4-gas meter measurements above background levels.

Site Work Progress: areas of the gas line on the northern side of the golf course were prepared with cover material. Work areas include the gas line route along Fairways #6, #7 and #8.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 Cover material at pipeline route adjacent to Fairway #7.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny & warm** **Wind: calm** **Humidity**

Date: October 3, 2018 **Time: 1200 - 1400** **Temp: 75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: topping of backfilled areas with cover material to bring grade a minimum of 27" above the top of the gas line. Cover material was imported from Ranco Sand & Stone. Miscellaneous work throughout the job site as Con Edison was not on-site today.

No 4-gas meter measurements above background levels.

Site Work Progress: areas of the gas line on the northern side of the golf course were prepared with cover material. Work areas include the gas line route along Fairways #6, #7 and #8.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 Cover material at pipeline route adjacent to Fairway #6.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast & warm** **Wind: calm** **Humidity**

Date: October 9, 2018 **Time: 1000 - 1500** **Temp: 70- 75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas:Bellision Construction worked the gas pipeline route along side Fairway #6 adding sufficient cover material and grading. Additional landscaping work was conducted in from of the "Trump Links' sign. Con Edison workers were staged on the roadway north of the golf course-opening the roadway in preparation to make the connection with the gas main at Schley and Buttrick.

No 4-gas meter measurements above background levels.

Site Work Progress: Most of the cover material along side Fairway #6 was placed above the new gasline-elevating the area as per the design specifications. Excavations in the road north of the golf course were slow and meticulous due to the abundance of underground utilities.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 Cover material at pipeline route adjacent to Fairway #6.

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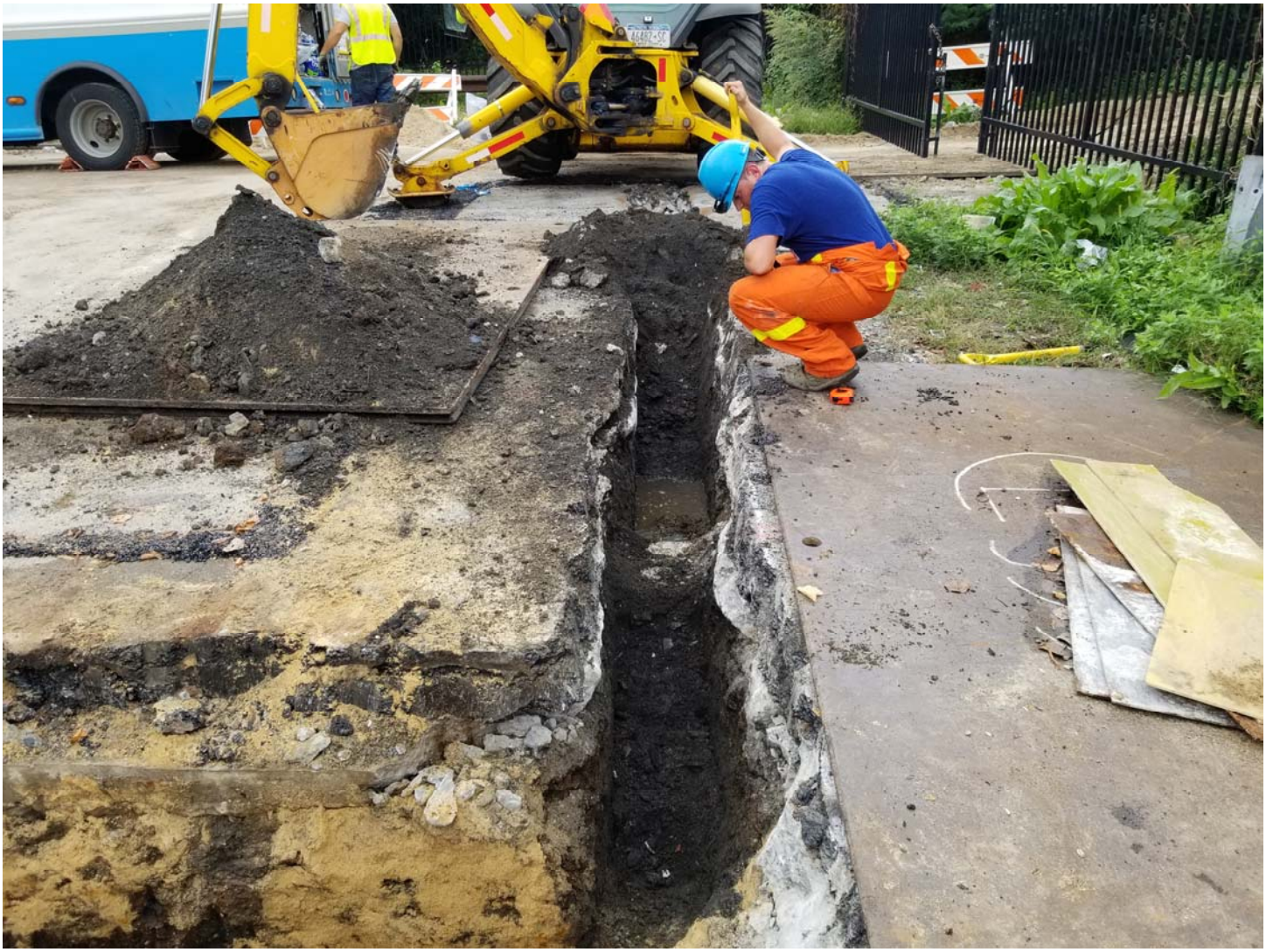

Photo #2: excavations to connect the new gas line with the existing main near the intersection of Buttrick and Schley.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny & warm** **Wind: light** **Humidity**

Date: October 10, 2018 **Time: 1030 - 1430** **Temp: 75-78** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Bellisimo continued construction work along the gas pipeline route along side Fairway #6 adding sufficient cover material and grading. Additional landscaping work was conducted in from of the "Trump Links' sign. Con Edison workers were not on-site today.

No 4-gas meter measurements above background levels.

Site Work Progress: Most of the cover material along side Fairway #6 was placed above the new gasline-elevating the area as per the design specifications. Excavations in the road north of the golf course have been backfilled. Con Edison was not on-site today so the schedule for the new gas line to be connectred to the Main is unclear.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Environmental Scientists

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Photo: 1 Cover material at pipeline route adjacent to Fairway #6.

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Photo #2: Area where the new gas line will be connected to the existing main at intersection of Schley and Buttrick.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: cloudy & mild** **Wind: steady winds** **Humidity**

Date: October 15, 2018 **Time: 1030 - 1430** **Temp: 65** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Bellisimo continues miscellaneous construction work along the gas pipeline route along side Fairway #6 adding sufficient cover material and grading. Additional landscaping work was conducted in front of the "Trump Links' sign. Con Edison workers were not on-site today.

No 4-gas meter measurements above background levels.

Site Work Progress: Most of the cover material along side Fairway #6 was placed above the new gasline-elevating the area as per the design specifications. Excavations in the road north of the golf course have been covered with protective steel road plates. Con Edison was not on-site today so the schedule for the new gas line to be connected to the Main is unclear. Cover material was staged in the vicinity of open excavations so that it's ready to be deployed as soon as Con Edison makes the final gas line connections.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 Cover material staged at the northern end of the pipeline route in preparation for the connection to the gas main at Buttrick & Schley.

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Photo #2: Area where the new gas line will be connected to the existing main.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather:mostly sunny** **Wind: steady winds** **Humidity**

Date: October 16, 2018 **Time: 1130 - 1430** **Temp: 50-55** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony) (offsite)

Active Site Work Areas: Bellisimo continues miscellaneous construction work along the gas pipeline route along side Fairway #6 adding sufficient cover material and grading—although they were not observed to be on-site today. Additional landscaping work was conducted in from of the "Trump Links' sign. Con Edison workers were not on-site today. Gas Main connection still needs to be accomplished at Buttrick & Schley and at the Club House.

No 4-gas meter measurements above background levels.

Site Work Progress: Most of the cover material along side Fairway #6 was placed above the new gasline-elevating the area as per the design specifications. Excavations in the road north of the golf course have been protected with steel road plates. Con Edison was not on-site today so the schedule for the new gas line to be connected to the Main is unclear. Cover material was staged in the vicinity of open excavations so that it's ready to be deployed as soon as Con Edison makes the final gas line connections.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 Steel road plates cover the gas line excavation trench at Buttrick & Schley .

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Photo #2: Area where the new gas line will be connected to the existing service branch for the club house.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: clear & sunny** **Wind: steady winds** **Humidity**

Date: October 18, 2018 **Time: 1100 - 1530** **Temp: 45** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Bellisimo continues miscellaneous construction work along the gas pipeline route along side Fairway #6. They are also restoring the cart path adjacent to Fairway #6.

Con Edison makes the connection of the 6-inch Gas Line to the 2-inch supply line near the new club house. RECONN inspects and tests all joints and connections.

No 4-gas meter measurements above background levels.

Site Work Progress: Most of the cover material along side Fairway #6 was placed above the new gasline-elevating the area as per the design specifications. Excavations in the road north of the golf course have been protected with steel road plates. Con Edison was on-site today and made the connection of the 6-ich gas line to the 2-inch supply line near the club house.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 Con Edison making the connection of the 6-inch gas line to the 2-inch supply line near the Club house.

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Photo #2: Bellisimo working on the cart path adjacent to Fairway #6/Tee Box for Hole #7.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: mostly sunny & mild** **Wind: light** **Humidity**

Date: October 19, 2018 **Time: 1200 - 1530** **Temp: 55 °F** High (Med) Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Bellisimo continues miscellaneous construction work along the gas pipeline route at multiple locations.

Con Edison makes the connection of the 6-inch Gas Line to the main gas line at the intersection for Buttrick & Schley. RECONN inspects and tests all joints and connections.

No 4-gas meter measurements above background levels.

Site Work Progress: the new 6-inch gas line has now been connected to the gas main. Following testing, the new 5,000 foot gasline can be activated.

Site Photographs: Yes (No)

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Dave Keil **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly overcast skies** **Wind: breezy** **Humidity**

Date: October 22, 2018 **Time: 1200 - 1500** **Temp: 50- 55** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: No contractors on site today

Active Site Work Areas: No active work areas as contractors were not onsite today. Open trenches at the new clubhouse and the connection point for the gas line were checked for air quality.

No 4-gas meter measurements above background levels.

Site Work Progress: Contractors were not on-site today. Air quality measurements were collected at open trenches at the northern and southern end of the pipeline route. No measurements recorded above background levels.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 Gas Line connected at northern end of pipeline route.

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Photo #2: Pipeline connection area at southern end of pipeline route near the new clubhouse.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly overcast skies** **Wind: light** **Humidity**

Date: January 15, 2019 **Time: 1200 - 1400** **Temp: 35** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: No contractors on site today

Active Site Work Areas: Contractors excavating area for the new back-up generator located between the new club house and the temporary club house.

Site Work Progress: Electrical conduit runs have been cut into the subsurface. No disturbance of the demarcation barrier or any signs for solid waste. No PID readings, odors or smells.

Digging is being done mostly by hand due to the fact that heavy equipment cannot access the area. Sawcutting and jacking of the highly compacted subsurface material is taking place. Contractors are attemping to complete the excavation since the pour fo the concrete pad is scheduled for tomorrow.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 contractors hand dig area for new generator installation.

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Photo #2: Sawcutting existing concrete in order to run electrical service to the new generator pad.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny skies** **Wind: moderate** **Humidity**

Date: January 16, 2019 **Time: 1100 - 1300** **Temp: 35** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Contractors on site today

Active Site Work Areas: Contractors excavating area for the new back-up generator located between the new club house and the temporary club house.

Site Work Progress: Electrical conduit runs have been cut into the subsurface. No disturbance of the demarcation barrier or any signs for solid waste. No PID readings, odors or smells.

Digging is being done mostly by hand due to the fact that heavy equipment cannot access the area. Sawcutting and jacking of the highly compacted subsurface material is taking place.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 new generator pad in ready condition for the concrete pour

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny skies, very mild** **Wind: light**
Humidity

Date: February 5, 2019 **Time: 1200 - 1520** **Temp: 55 - 60** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Control Point Surveyors on site.

Active Site Work Areas: Photographs of completed concrete pad for the generator. Photographs of gas main route and SSDS components.

Site Work Progress: All exterior work related to the pouring of the concrete pad for the new generator has been completed. Generator has not yet been installed. Inspection of the previous gas line installation work shows that cover material has compacted in some areas. Hydroseeded areas are generally protected from wind and runoff. Future inspections will be scheduled.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Customer Loyalty through Client Satisfaction.

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Photo: 1 new generator pad between new club house and temporary club house.

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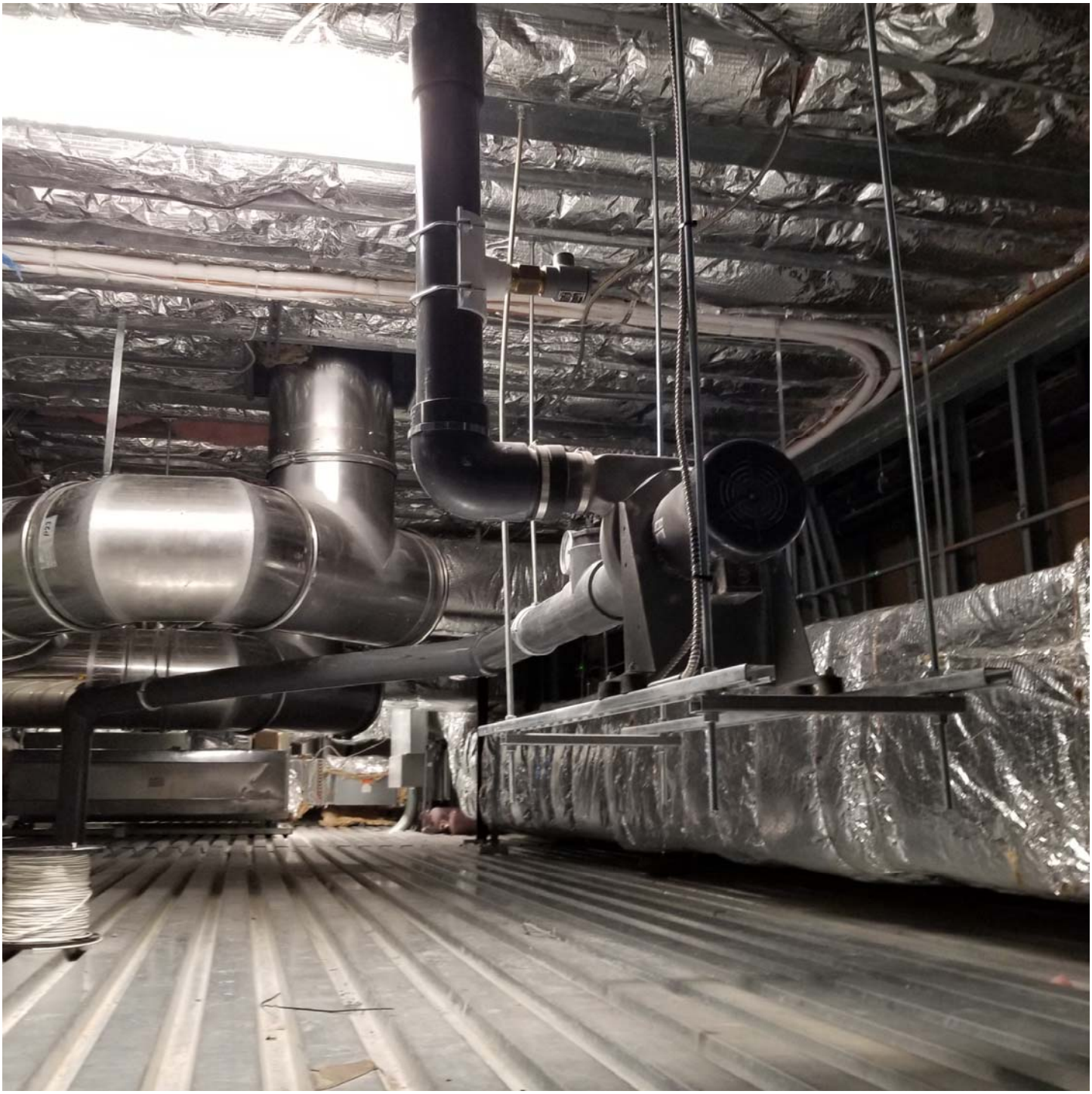

Photo 2: SSDS fan in operation in mezzanine section south side of club house.

APPENDIX J

Hampton-Clarke Project No. 7092827 Report dated October 30, 2017

Hampton-Clarke
Analytical & Field Services

175 ROUTE 46 WEST, UNIT D · FAIRFIELD, NJ 07004
2 MADISON ROAD, FAIRFIELD, NJ 07004
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: Trump Links

Client PO: Not Available

Report To: Maser Consulting
50 Chestnut Ridge Road
Montvale, NJ 07645

Attn: David Keil

Received Date: 9/28/2017

Report Date: 10/30/2017

Deliverables: NYDOH-R

Lab ID: AD00298

Lab Project No: 7092827

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

Robin Cousineau - Quality Assurance Director OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

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- Form 1 Sample and Blank Results
- Form 2 Surrogate Recovery
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- Form 4 Method Blank Summary
- Form 5 Tune Summary & DFTPP Spectra
- Form 6,7 Calibration & RT Summary
- Form 8 Internal Standard Area Summary

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- Form 1 Sample and Blank Results
- Form 2 Surrogate Recovery
- Form 3 Spike Recovery
- Form 4 Method Blank Summary
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Pesticide Data **152**

Form 1 Sample and Blank Results

Form 2 Surrogate Recovery

Form 3 Spike Recovery

Form 4 Method Blank Summary

Form 5 Run Logs & RT Shift Summary

Form 6, 7 Calibration Summary

Herbicide Data **171**

Form 1 Sample and Blank Results

Form 2 Surrogate Recovery

Form 3 Spike Recovery

Form 4 Method Blank Summary

Form 5 Run Logs & RT Shift Summary

Form 6, 7 Calibration Summary

Metal Data **190**

Form 1 Sample Results

Form 2 Calibration Summary

Form 3 Blank Summary

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Form 5/7 Spike / LCS Recovery Data

Form 6/9 Duplicate / Serial Dilution Sample Data

TCLP Metal Data **235**

Form 1 Sample Results

Form 2 Calibration Summary

Form 3 Blank Summary

Form 4 ICP Interference Check Sample Summary

Form 5/7 Spike / LCS Recovery Data

Form 6/9 Duplicate / Serial Dilution Sample Data

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Miscellaneous Data **260**

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Sample Summary

Client: Maser Consulting

Project: Trump Links

HC Project #: 7092827

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD00298-001	475 EXTERIOR NYRECYCLE Grab	Soil/Terracore	9/28/2017	9/28/2017
AD00298-002	475 EXTERIOR NYRECYCLE COMP	Aqueous	9/28/2017	9/28/2017

HC Case Narrative

Client: Maser Consulting
Project: Trump Links

HC Project: 7092827

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batch 64307 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and Matrix Spike Duplicate for batch 64307 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

TCLP Volatile Organic Analysis:

The Method Blank Spike for batch 64316 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and Matrix Spike Duplicate for batch 64316 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

Sample AD00298-002 was analyzed at a dilution due to high concentration of target analytes.

The Method Blank Spike for batch 63050 and 63067 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and Matrix Spike Duplicate for batch 63050 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

PCB Analysis:

Data conforms to method requirements.

Pesticide Analysis:

The Matrix Spike and Matrix Spike Duplicate for batch 63043 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Herbicide Analysis:

Data conforms to method requirements.

Metals Analysis:

Due to contamination in LCS/LCSMR, batch 62650 was reset for Ba.

The Matrix Spike and Matrix Spike Duplicate for batch 62650 had recoveries outside QC limits. Please refer to the applicable Form 5/7 for the recoveries.

The RPD between the QC sample and the Method Replicate had recoveries outside QC limits in batches 62644 and 62650. Please refer to the applicable Form 6/9 for the recoveries.

The MS/MSD RPD had recoveries outside QC limits in batch 62650. Please refer to the applicable Form 6/9 for the recoveries.

The serial dilution for batches 62644 and 62650 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

TCLP Metals Analysis:

Data conforms to method requirements.

Wet Chemistry Analysis:

Sample AD00298-002 was analyzed for Reactivity using SW-846 7.3. SW-846 7.3 is not a NELAP accredited parameter.

Subcontracted Analysis:

Please refer to attached subcontracted laboratory report. Sample AD00298-001 submitted to eurofins for Dioxin Scan (1613) analysis, PCDD & PCDF (8290) analysis, and Organophosphorous Pesticides (8141) analysis.

Robin Cousineau Quality Assurance Director	Or	Jean Revolus Laboratory Director	10/30/2017 Date

HC Executive Summary

Client: Maser Consulting

HC Project #: 7092827

Project: Trump Links

Lab#: AD00298-002 **Sample ID: 475 EXTERIOR NYRECYCLE CO**

Analyte	Units	RL	Result	Analytical Method
2,3,7,8-TCDD			Attached	EPA 1613
Barium	mg/kg	11	200	EPA 6010C
Barium	mg/l	0.25	0.41	EPA 6010C
Chromium	mg/kg	5.4	46	EPA 6010C
Copper	mg/kg	5.4	58	EPA 6010C
Lead	mg/kg	5.4	120	EPA 6010C
Arsenic	mg/kg	0.22	6.0	EPA 6020A
Mercury	mg/kg	0.091	0.37	EPA 7471B
a-Chlordane	mg/kg	0.0054	0.0082	EPA 8081B
Chlordane (Technical)	mg/kg	0.027	0.055	EPA 8081B
Chlordane (Total)	mg/kg	0.0054	0.016	EPA 8081B
p,p'-DDE	mg/kg	0.0027	0.0052	EPA 8081B
p,p'-DDT	mg/kg	0.0027	0.0091	EPA 8081B
y-Chlordane	mg/kg	0.0054	0.0076	EPA 8081B
Parathion			Attached	EPA 8141
Anthracene	mg/kg	0.18	0.24	EPA 8270D
Benzo[a]anthracene	mg/kg	0.18	0.95	EPA 8270D
Benzo[a]pyrene	mg/kg	0.18	0.94	EPA 8270D
Benzo[b]fluoranthene	mg/kg	0.18	1.2	EPA 8270D
Benzo[g,h,i]perylene	mg/kg	0.18	0.69	EPA 8270D
Benzo[k]fluoranthene	mg/kg	0.18	0.35	EPA 8270D
Chrysene	mg/kg	0.18	0.93	EPA 8270D
Dibenzo[a,h]anthracene	mg/kg	0.18	0.20	EPA 8270D
Fluoranthene	mg/kg	0.18	1.5	EPA 8270D
Indeno[1,2,3-cd]pyrene	mg/kg	0.18	0.62	EPA 8270D
Phenanthrene	mg/kg	0.18	0.61	EPA 8270D
Pyrene	mg/kg	0.18	1.7	EPA 8270D
PCDD & PCDF			Attached	EPA 8290

HC Report of Analysis

Client: Maser Consulting
Project: Trump Links

HC Project #: 7092827

Sample ID: 475 EXTERIOR NYRECYCLE Grab
Lab#: AD00298-001
Matrix: Soil/Terracore

Collection Date: 9/28/2017
Receipt Date: 9/28/2017

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		91

TCLP Volatiles 8260

Analyte	DF	Units	RL	Result
1,1-Dichloroethene	1	mg/l	0.0010	ND
1,2-Dichloroethane	1	mg/l	0.00050	ND
1,4-Dichlorobenzene	1	mg/l	0.0010	ND
2-Butanone	1	mg/l	0.0010	ND
Benzene	1	mg/l	0.00050	ND
Carbon tetrachloride	1	mg/l	0.0010	ND
Chlorobenzene	1	mg/l	0.0010	ND
Chloroform	1	mg/l	0.0010	ND
Tetrachloroethene	1	mg/l	0.0010	ND
Trichloroethene	1	mg/l	0.0010	ND
Vinyl chloride	1	mg/l	0.0010	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1.46	mg/kg	0.0032	ND
1,1,2,2-Tetrachloroethane	1.46	mg/kg	0.0032	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1.46	mg/kg	0.0032	ND
1,1-Dichloroethane	1.46	mg/kg	0.0032	ND
1,1-Dichloroethene	1.46	mg/kg	0.0032	ND
1,2,3-Trichloropropane	1.46	mg/kg	0.0032	ND
1,2,4-Trichlorobenzene	1.46	mg/kg	0.0032	ND
1,2-Dichlorobenzene	1.46	mg/kg	0.0032	ND
1,2-Dichloroethane	1.46	mg/kg	0.0032	ND
1,3-Dichlorobenzene	1.46	mg/kg	0.0032	ND
1,3-Dichloropropane	1.46	mg/kg	0.0032	ND
1,4-Dichlorobenzene	1.46	mg/kg	0.0032	ND
2-Butanone	1.46	mg/kg	0.0032	ND
4-Methyl-2-pentanone	1.46	mg/kg	0.0032	ND
Acetone	1.46	mg/kg	0.016	ND
Benzene	1.46	mg/kg	0.0016	ND
Carbon disulfide	1.46	mg/kg	0.0032	ND
Carbon tetrachloride	1.46	mg/kg	0.0032	ND
Chlorobenzene	1.46	mg/kg	0.0032	ND
Chloroethane	1.46	mg/kg	0.0032	ND
Chloroform	1.46	mg/kg	0.0032	ND
Dibromochloromethane	1.46	mg/kg	0.0032	ND
Ethylbenzene	1.46	mg/kg	0.0016	ND
m&p-Xylenes	1.46	mg/kg	0.0016	ND
Methylene chloride	1.46	mg/kg	0.0032	ND
o-Xylene	1.46	mg/kg	0.0016	ND
Tetrachloroethene	1.46	mg/kg	0.0032	ND
Toluene	1.46	mg/kg	0.0016	ND
trans-1,2-Dichloroethene	1.46	mg/kg	0.0032	ND
Trichloroethene	1.46	mg/kg	0.0032	ND

Sample ID: 475 EXTERIOR NYRECYCLE Grab
Lab#: AD00298-001
Matrix: Soil/Terracore

Collection Date: 9/28/2017
Receipt Date: 9/28/2017

Vinyl chloride	1.46	mg/kg	0.0032	ND
Xylenes (Total)	1.46	mg/kg	0.0016	ND

Sample ID: 475 EXTERIOR NYRECYCLE COMP
Lab#: AD00298-002
Matrix: Aqueous

Collection Date: 9/28/2017
Receipt Date: 9/28/2017

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		92

2,3,7,8-TCDD Scan

Analyte	DF	Units	RL	Result
2,3,7,8-TCDD	1			Attached

Chlorinated Herbicides 8151

Analyte	DF	Units	RL	Result
2,4,5-T	1	mg/kg	0.011	ND
2,4-D	1	mg/kg	0.011	ND
Silvex	1	mg/kg	0.011	ND

Mercury (Soil/Waste) 7471B

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.091	0.37

Mercury (TCLP) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	mg/l	0.00050	ND

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
a-Chlordane	1	mg/kg	0.0054	0.0082
Aldrin	1	mg/kg	0.0054	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane (Technical)	1	mg/kg	0.027	0.055
Chlordane (Total)	1	mg/kg	0.0054	0.016
delta-BHC	1	mg/kg	0.0054	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0054	ND
Endosulfan II	1	mg/kg	0.0054	ND
Endosulfan Sulfate	1	mg/kg	0.0054	ND
Endrin	1	mg/kg	0.0054	ND
Endrin Aldehyde	1	mg/kg	0.0054	ND
Endrin Ketone	1	mg/kg	0.0054	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0054	ND
Heptachlor Epoxide	1	mg/kg	0.0054	ND
Methoxychlor	1	mg/kg	0.0054	ND
p,p'-DDD	1	mg/kg	0.0027	ND
p,p'-DDE	1	mg/kg	0.0027	0.0052
p,p'-DDT	1	mg/kg	0.0027	0.0091
Toxaphene	1	mg/kg	0.027	ND
y-Chlordane	1	mg/kg	0.0054	0.0076

Organophosphorous Pesticides 8141

Analyte	DF	Units	RL	Result
Parathion	1			Attached

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND

Sample ID: 475 EXTERIOR NYRECYCLE COMP **Collection Date: 9/28/2017**
Lab#: AD00298-002 **Receipt Date: 9/28/2017**
Matrix: Aqueous

Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

PCDD & PCDF (8290)

Analyte	DF	Units	RL	Result
PCDD & PCDF	**1**			**Attached**

RCRA Metals 6010

Analyte	DF	Units	RL	Result
Barium	**1**	**mg/kg**	**11**	**200**
Chromium	**1**	**mg/kg**	**5.4**	**46**
Copper	**1**	**mg/kg**	**5.4**	**58**
Lead	**1**	**mg/kg**	**5.4**	**120**

RCRA Metals ICP-MS 6020

Analyte	DF	Units	RL	Result
Arsenic	**1**	**mg/kg**	**0.22**	**6.0**
Cadmium	1	mg/kg	0.43	ND
Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND

Reactive Cyanide

Analyte	DF	Units	RL	Result
Cyanide (Reactive)	1	mg/kg	0.50	ND

Reactive Sulfide

Analyte	DF	Units	RL	Result
Sulfide (Reactive)	1	mg/kg	100	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
2,4,5-Trichlorophenol	5	mg/kg	0.18	ND
2,4-Dichlorophenol	5	mg/kg	0.045	ND
2,4-Dinitrophenol	5	mg/kg	0.91	ND
2,6-Dinitrotoluene	5	mg/kg	0.18	ND
2-Chlorophenol	5	mg/kg	0.18	ND
2-Methylnaphthalene	5	mg/kg	0.18	ND
2-Methylphenol	5	mg/kg	0.045	ND
2-Nitroaniline	5	mg/kg	0.18	ND
2-Nitrophenol	5	mg/kg	0.18	ND
3&4-Methylphenol	5	mg/kg	0.045	ND
3,3'-Dichlorobenzidine	5	mg/kg	0.18	ND
3-Nitroaniline	5	mg/kg	0.18	ND
4-Chloro-3-methylphenol	5	mg/kg	0.18	ND
4-Chloroaniline	5	mg/kg	0.045	ND
4-Nitrophenol	5	mg/kg	0.18	ND
Acenaphthene	5	mg/kg	0.18	ND
Acenaphthylene	5	mg/kg	0.18	ND
Aniline	5	mg/kg	0.045	ND
Anthracene	**5**	**mg/kg**	**0.18**	**0.24**
Benzo[a]anthracene	**5**	**mg/kg**	**0.18**	**0.95**
Benzo[a]pyrene	**5**	**mg/kg**	**0.18**	**0.94**
Benzo[b]fluoranthene	**5**	**mg/kg**	**0.18**	**1.2**
Benzo[g,h,i]perylene	**5**	**mg/kg**	**0.18**	**0.69**

Sample ID: 475 EXTERIOR NYRECYCLE COMP
Lab#: AD00298-002
Matrix: Aqueous

Collection Date: 9/28/2017
Receipt Date: 9/28/2017

Benzo[k]fluoranthene	**5**	**mg/kg**	**0.18**	**0.35**
bis(2-Ethylhexyl)phthalate	5	mg/kg	0.18	ND
Butylbenzylphthalate	5	mg/kg	0.18	ND
Chrysene	**5**	**mg/kg**	**0.18**	**0.93**
Dibenzo[a,h]anthracene	**5**	**mg/kg**	**0.18**	**0.20**
Dibenzofuran	5	mg/kg	0.045	ND
Diethylphthalate	5	mg/kg	0.18	ND
Dimethylphthalate	5	mg/kg	0.18	ND
Di-n-butylphthalate	5	mg/kg	0.045	ND
Di-n-octylphthalate	5	mg/kg	0.18	ND
Fluoranthene	**5**	**mg/kg**	**0.18**	**1.5**
Fluorene	5	mg/kg	0.18	ND
Hexachlorobenzene	5	mg/kg	0.18	ND
Indeno[1,2,3-cd]pyrene	**5**	**mg/kg**	**0.18**	**0.62**
Isophorone	5	mg/kg	0.18	ND
Naphthalene	5	mg/kg	0.045	ND
Nitrobenzene	5	mg/kg	0.18	ND
Pentachlorophenol	5	mg/kg	0.91	ND
Phenanthrene	**5**	**mg/kg**	**0.18**	**0.61**
Phenol	5	mg/kg	0.18	ND
Pyrene	**5**	**mg/kg**	**0.18**	**1.7**

TCLP Metals 6010

Analyte	DF	Units	RL	Result
Arsenic	1	mg/l	0.10	ND
Barium	**1**	**mg/l**	**0.25**	**0.41**
Cadmium	1	mg/l	0.050	ND
Chromium	1	mg/l	0.10	ND
Lead	1	mg/l	0.050	ND
Selenium	1	mg/l	0.10	ND
Silver	1	mg/l	0.050	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

MDL = Method Detection Limit

RL* = Reporting Limit

ND = Not Detected

RT = Retention Time

NA = Not Applicable

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Maser Consulting

Project: Trump Links

HC Project #: 7092827

Lab#: AD00298-001 **Sample ID: 475 EXTERIOR NYRECYCLE Grab**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	9/29/17 00:00	jessica
TCLP Volatiles 8260	EPA 5030C			EPA 8260C	10/2/17 09:16	SG
TCLP Zero Headspace Extraction	EPA 1311	09/29/17 16:15	jprevilon			
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	9/29/17 08:03	SG

Lab#: AD00298-002 **Sample ID: 475 EXTERIOR NYRECYCLE COMP**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	9/29/17 00:00	jessica
2,3,7,8-TCDD Scan	EPA 1613			EPA 1613	10/21/17 19:41	eurofins
Chlorinated Herbicides 8151		10/03/17 10:30	marie	EPA 8151A	10/4/17 16:37	MLC/MS/ZM
Mercury (Soil/Waste) 7471B	EPA 7471B	09/30/17 11:00	CARMELA	EPA 7471B	10/2/17 12:38	CJA
Mercury (TCLP) 7470A	EPA 7470A	10/04/17 09:00	aadewusi	EPA 7470A	10/4/17 18:04	OA
Organochlorine Pesticides 8081	3510C/3550C	10/03/17 07:15	jkr	EPA 8081B	10/4/17 03:39	MS/MLC/ZM
Organophosphorous Pesticides 8141				EPA 8141	10/9/17 20:24	eurofins
PCB 8082	3510C/3550C	10/03/17 07:15	jkr	EPA 8082A	10/3/17 21:37	MS/MLC/ZM
PCDD & PCDF (8290)				EPA 8290	10/5/17 00:00	eurofins
RCRA Metals 6010	3005&10/3050	09/30/17 11:00	CARMELA	EPA 6010C	10/4/17 12:51	CJA
RCRA Metals 6010	3005&10/3050	09/30/17 11:00	CARMELA	EPA 6010C	10/4/17 16:51	CJA
RCRA Metals ICP-MS 6020	3005&10/3050	09/30/17 11:00	Carmela	EPA 6020A	10/2/17 14:35	PC
RCRA Metals ICP-MS 6020	3005&10/3050	09/30/17 11:00	Carmela	EPA 6020A	10/3/17 14:25	PC
Reactive Cyanide	SW846 7.3.3	10/03/17	jessica	SW846 7.3.3	10/3/17 14:51	JMP
Reactive Sulfide	SW846 7.3.4	10/03/17	JMP	SW846 7.3.4	10/3/17 00:00	JMP
Semivolatile Organics (no search) 8270	3510C/3550C	10/03/17 11:15	lynda	EPA 8270D	10/4/17 15:12	AH/JB
TCLP Metals 6010	3005&10/3050	10/04/17 09:00	aadewusi	EPA 6010C	10/4/17 16:32	OA
TCLP Metals Extraction 1311	EPA 1311	10/02/17 13:22	Ramos		10/3/17 10:15	Ramos

Chain of Custody

7092827 0013

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

CHAIN OF CUSTODY RECORD

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Project # (Lab Use Only): 7092827

Page 1 of 1

Customer Information

1a) Customer: Prater Consulting
Address: 50 Chestnut Ridge Road, Montvale, NJ 07645
1b) Email/Cell/Fax/Ph: (201) 937-3515
1c) Send Invoice to: D. Keil
1d) Send Report to: D. Keil

Project Information

2a) Project: Trump Links
2b) Project Mgr: D. Keil
2c) Project Location (City/State): 475 Exterior, Bronx, NY
2d) Quote/PO # (If Applicable):

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%)*	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%)*	Reduced:	EnviroData
3 Business Days (50%)*	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%)*	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY ↓

Batch # AN00298

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water, S - Soil, A - Air
GW - Ground Water, SL - Sludge
WW - Waste Water, OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Composite (C)	Grab (G)	PCB's	Pesticides	2,3,7,8-TCDD	VO TCLP	SO Solids	VO Tetracore	RCRA Metals	BNA	PAST / HERB	SVOC	TCLP Metals	8) # of Bottles None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
001/002	475 Exterior Nyklyne	S	9/25	1400	X		X	X	X	X	X	X	X	X	X	X	X	6	2						2	
																					RS 9/28/17					

10) Relinquished by:	Accepted by:	Date	Time
D. Keil	[signature]	9/25/17	15:15

11) Sampler (print name): Date:

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270D SIM)
- [ ] VOC (8260C SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2-3

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

PROJECT MODIFICATIONS

Client: MASER
Project: Trump Links

HC Project #: 7092827

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csmith192.168.1.73
10/3/2017 12:04:19 PM

Per David Kiel, The Total VO and TCLP VO are grab samples; expedite all analysis possible to a 4 day TAT.

CONDITION UPON RECEIPT

Batch Number AD00298

Entered By: Ricardo
Date Entered 9/28/2017 4:04:00 PM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	NO	Are the COC seals intact?
4	T0056	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.3
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify
14	NA	Corrective actions (Specify item number and corrective action taken).

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD00298-001	09/28/17 15:15	RICAR	0	M	Received
AD00298-001	09/28/17 16:04	RICAR	0	M	Login
AD00298-001	09/28/17 16:09	R31	1	A	NONE
AD00298-001	09/28/17 18:38	WP	1	A	VOA
AD00298-001	09/28/17 18:43	R31	1	A	NONE
AD00298-001	09/28/17 16:09	F18	2	A	NONE
AD00298-001	09/28/17 16:09	F18	4	A	NONE
AD00298-001	09/29/17 07:35	SG	4	A	VOA
AD00298-001	09/29/17 10:24	JMP	10	A	SOLIDS
AD00298-001	09/29/17 10:26	R12	10	A	NONE
AD00298-001	09/29/17 15:46	R12	10	A	NONE
AD00298-001	09/29/17 15:46	JP	10	A	tclp-zhe
AD00298-002	09/28/17 15:15	RICAR	0	M	Received
AD00298-002	09/28/17 16:38	RICAR	0	M	Login
AD00298-002	09/29/17 10:24	JMP	1	A	SOLIDS
AD00298-002	09/29/17 10:26	R12	1	A	NONE
AD00298-002	09/30/17 11:04	CJA	1	M	TDSI-HG
AD00298-002	09/30/17 16:04	R12	1	A	NONE
AD00298-002	10/02/17 12:07	CJA	1	A	TDSI
AD00298-002	10/02/17 16:30	R12	1	A	NONE
AD00298-002	10/03/17 07:01	JKR	1	A	P/P
AD00298-002	10/03/17 07:02	R12	1	A	NONE
AD00298-002	10/03/17 11:00	JP	1	A	bna
AD00298-002	10/03/17 11:02	R12	1	A	NONE
AD00298-002	10/04/17 10:37	JP	1	A	bna
AD00298-002	10/04/17 10:39	R12	1	A	NONE
AD00298-002	10/03/17 09:03	JMP	5	A	RCN/BN/RS
AD00298-002	10/03/17 09:45	R12	5	A	NONE
AD00298-002	10/03/17 10:29	R12	5	A	NONE
AD00298-002	10/03/17 10:29	MSL	5	A	herb

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD00298-001
Client Id: 475 EXTERIOR NYRECYC
Data File: 6M59253.D
Analysis Date: 09/29/17 08:03
Date Rec/Extracted: 09/28/17-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 3.43g
Final Vol: NA
Dilution: 1.46
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0032	U	75-15-0	Carbon Disulfide	0.0032	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0032	U	56-23-5	Carbon Tetrachloride	0.0032	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0032	U	108-90-7	Chlorobenzene	0.0032	U
75-34-3	1,1-Dichloroethane	0.0032	U	75-00-3	Chloroethane	0.0032	U
75-35-4	1,1-Dichloroethene	0.0032	U	67-66-3	Chloroform	0.0032	U
96-18-4	1,2,3-Trichloropropane	0.0032	U	124-48-1	Dibromochloromethane	0.0032	U
120-82-1	1,2,4-Trichlorobenzene	0.0032	U	100-41-4	Ethylbenzene	0.0016	U
95-50-1	1,2-Dichlorobenzene	0.0032	U	79601-23-1	m&p-Xylenes	0.0016	U
107-06-2	1,2-Dichloroethane	0.0032	U	75-09-2	Methylene Chloride	0.0032	U
541-73-1	1,3-Dichlorobenzene	0.0032	U	95-47-6	o-Xylene	0.0016	U
142-28-9	1,3-Dichloropropane	0.0032	U	127-18-4	Tetrachloroethene	0.0032	U
106-46-7	1,4-Dichlorobenzene	0.0032	U	108-88-3	Toluene	0.0016	U
78-93-3	2-Butanone	0.0032	U	156-60-5	trans-1,2-Dichloroethene	0.0032	U
108-10-1	4-Methyl-2-Pentanone	0.0032	U	79-01-6	Trichloroethene	0.0032	U
67-64-1	Acetone	0.016	U	75-01-4	Vinyl Chloride	0.0032	U
71-43-2	Benzene	0.0016	U	1330-20-7	Xylenes (Total)	0.0016	U

Worksheet #: 439138

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

7092827 0019

SampleID : AD00298-001 Operator : SG Qt Meth : 6M_S09074M
Data File: 6M59253.D Sam Mult : 1 Vial# : 9 Qt On : 09/29/17 08:53
Acq On : 09/29/17 08:03 Misc : S,5g!4 Qt Upd On: 09/07/17 10:00

Data Path : G:\GcMsData\2017\GCMS_6\Data\09-29-17\
Qt Path : G:\GcMsData\2017\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
4) Fluorobenzene	4.750	96	163949	30.00 ug/l	-0.01
52) Chlorobenzene-d5	6.321	117	84388	30.00 ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.567	152	31276	30.00 ug/l	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	4.371	111	49551	36.58 ug/l	-0.01
Spiked Amount 30.000			Recovery	= 121.93%	
39) 1,2-Dichloroethane-d4	4.569	67	21279	34.02 ug/l	-0.01
Spiked Amount 30.000			Recovery	= 113.40%	
66) Toluene-d8	5.574	98	138950	30.33 ug/l	0.00
Spiked Amount 30.000			Recovery	= 101.10%	
76) Bromofluorobenzene	6.935	174	29705	32.41 ug/l	0.00
Spiked Amount 30.000			Recovery	= 108.03%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

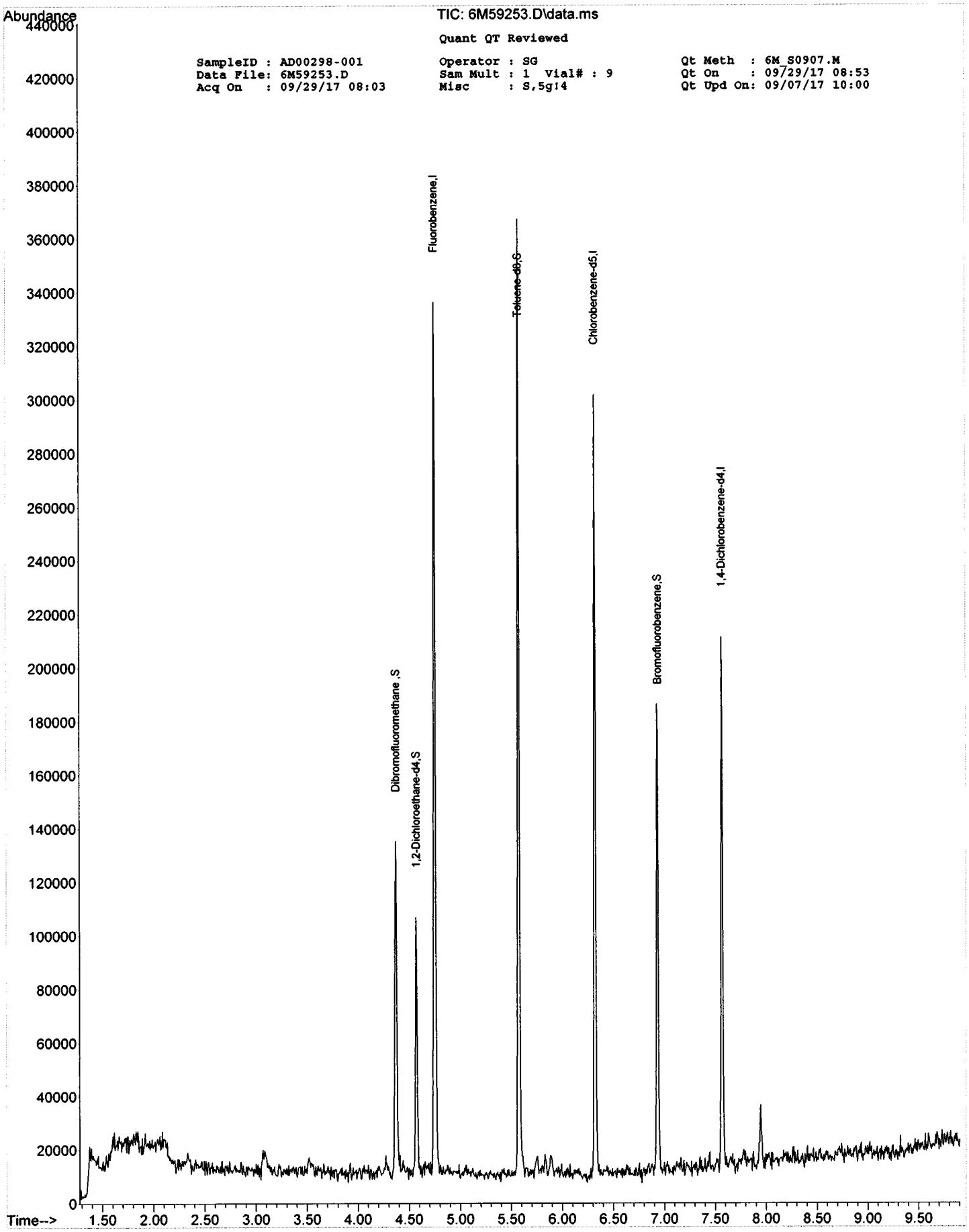
Abundance
TIC: 6M59253.D\data.ms
Quant QT Reviewed
SampleID : AD00298-001
Data File: 6M59253.D
Acq On : 09/29/17 08:03
Operator : SG
Sam Mult : 1 Vial# : 9
Misc : S,5g!4
Qt Meth : 6M_S0907.M
Qt On : 09/29/17 08:53
Qt Upd On: 09/07/17 10:00
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 6M59251.D
Analysis Date: 09/29/17 07:22
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	75-15-0	Carbon Disulfide	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	75-00-3	Chloroethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	67-66-3	Chloroform	0.0020	U
96-18-4	1,2,3-Trichloropropane	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	79601-23-1	m&p-Xylenes	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	75-09-2	Methylene Chloride	0.0020	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	95-47-6	o-Xylene	0.0010	U
142-28-9	1,3-Dichloropropane	0.0020	U	127-18-4	Tetrachloroethene	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-88-3	Toluene	0.0010	U
78-93-3	2-Butanone	0.0020	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	79-01-6	Trichloroethene	0.0020	U
67-64-1	Acetone	0.010	U	75-01-4	Vinyl Chloride	0.0020	U
71-43-2	Benzene	0.0010	U				

Worksheet #: 439138

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT/LSC Reviewed)

7092827 0022

SampleID : DAILY BLANK
Data File: 6M59251.D
Acq On : 09/29/17 07:22

Operator : SG
Sam Mult : 1 Vial# : 7
Misc : S,5g

Qt Meth : 6M_S0907.M
Qt On : 09/29/17 07:38
Qt Upd On: 09/07/17 10:00

Data Path : G:\GcMsData\2017\GCMS_6\Data\09-29-17\
Qt Path : G:\GcMsData\2017\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.750	96	175495	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.321	117	92814	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.566	152	34937	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.371	111	55101	38.00	ug/l	-0.01
Spiked Amount 30.000			Recovery = 126.67%			
39) 1,2-Dichloroethane-d4	4.569	67	22522	33.64	ug/l	-0.01
Spiked Amount 30.000			Recovery = 112.13%			
66) Toluene-d8	5.574	98	146197	29.01	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.70%			
76) Bromofluorobenzene	6.934	174	30854	30.13	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.43%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

lu

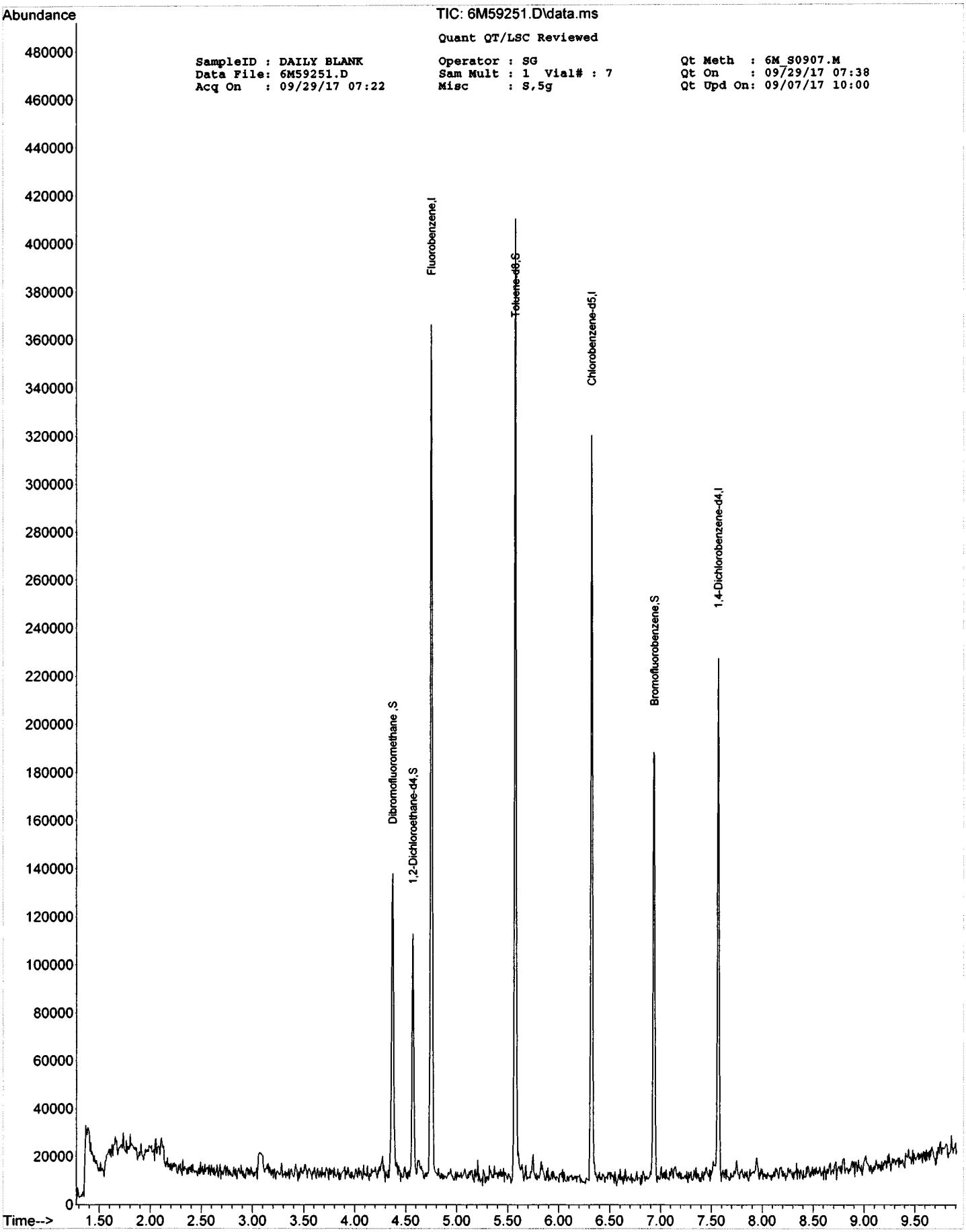
Abundance
TIC: 6M59251.D\data.ms
Quant QT/LSC Reviewed
SampleID : DAILY BLANK
Data File: 6M59251.D
Acq On : 09/29/17 07:22
Operator : SG
Sam Mult : 1 Vial# : 7
Misc : S,5g
Qt Meth : 6M_S0907.M
Qt On : 09/29/17 07:38
Qt Upd On: 09/07/17 10:00
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8260C

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
6M59251.D	DAILY BLANK	S	09/29/17 07:22	1		127	112	97	100		
6M59253.D	AD00298-001	S	09/29/17 08:03	1		122	113	101	108		
6M59256.D	MBS64307	S	09/29/17 08:53	1		112	118	100	102		
6M59257.D	AD00091-024(MS)	S	09/29/17 09:09	1		91	82	122	104		
6M59258.D	AD00091-024(MSD)	S	09/29/17 09:26	1		90	75	122	103		
6M59277.D	AD00091-024	S	09/29/17 14:42	1		123	123	94	102		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260C

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	63-140
S2=1,2-Dichloroethane-d4	30	63-143
S3=Toluene-d8	30	68-122
S4=Bromofluorobenzene	30	64-129

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64307

Data File	Sample ID:	Analysis Date
Spike or Dup: 6M59256.D	MBS64307	9/29/2017 8:53:00 AM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	58.4125	0	50	117	20	130
Dichlorodifluoromethane	1	21.1145	0	50	42	20	130
Chloromethane	1	47.4999	0	50	95	20	130
Bromomethane	1	51.6614	0	50	103	20	130
Vinyl Chloride	1	47.4669	0	50	95	20	130
Chloroethane	1	47.7232	0	50	95	20	130
Trichlorofluoromethane	1	61.2703	0	50	123	20	130
Ethyl ether	1	43.8466	0	50	88	50	130
Furan	1	45.888	0	50	92	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	46.7675	0	50	94	50	130
Methylene Chloride	1	47.7871	0	50	96	50	130
Acrolein	1	169.7341	0	200	85	20	130
Acrylonitrile	1	41.7925	0	50	84	20	130
Iodomethane	1	61.7347	0	50	123	50	130
Acetone	1	298.4298	0	200	149*	20	130
Carbon Disulfide	1	64.7424	0	50	129	50	130
t-Butyl Alcohol	1	216.1739	0	200	108	20	130
n-Hexane	1	43.7846	0	50	88	50	130
Di-isopropyl-ether	1	43.5546	0	50	87	50	130
1,1-Dichloroethene	1	32.3067	0	50	65	50	130
Methyl Acetate	1	41.647	0	50	83	50	130
Methyl-t-butyl ether	1	38.5845	0	50	77	50	130
1,1-Dichloroethane	1	48.3268	0	50	97	50	130
trans-1,2-Dichloroethene	1	47.8015	0	50	96	50	130
Ethyl-t-butyl ether	1	39.1607	0	50	78	50	130
cis-1,2-Dichloroethene	1	46.4619	0	50	93	50	130
Bromochloromethane	1	33.8689	0	50	68	50	130
2,2-Dichloropropane	1	43.548	0	50	87	50	130
Ethyl acetate	1	48.5455	0	50	97	50	130
1,4-Dioxane	1	2603.958	0	2500	104	50	130
1,1-Dichloropropene	1	48.8289	0	50	98	50	130
Chloroform	1	45.3348	0	50	91	50	130
Cyclohexane	1	40.9155	0	50	82	50	130
1,2-Dichloroethane	1	49.0922	0	50	98	50	130
2-Butanone	1	48.1217	0	50	96	20	130
1,1,1-Trichloroethane	1	46.0366	0	50	92	50	130
Carbon Tetrachloride	1	48.3382	0	50	97	50	130
Vinyl Acetate	1	39.3918	0	50	79	50	130
Bromodichloromethane	1	43.3777	0	50	87	50	130
Methylcyclohexane	1	42.7708	0	50	86	50	130
Dibromomethane	1	50.6767	0	50	101	50	130
1,2-Dichloropropane	1	40.7171	0	50	81	50	130
Trichloroethene	1	44.1908	0	50	88	50	130
Benzene	1	45.0411	0	50	90	50	130
tert-Amyl methyl ether	1	36.0946	0	50	72	50	130
Iso-propylacetate	1	42.6147	0	50	85	50	130
Methyl methacrylate	1	45.4727	0	50	91	50	130
Dibromochloromethane	1	50.3179	0	50	101	50	130
2-Chloroethylvinylether	1	40.0014	0	50	80	50	130
cis-1,3-Dichloropropene	1	40.8153	0	50	82	50	130
trans-1,3-Dichloropropene	1	38.0716	0	50	76	50	130
Ethyl methacrylate	1	40.3793	0	50	81	50	130
1,1,2-Trichloroethane	1	45.5803	0	50	91	50	130
1,2-Dibromoethane	1	46.4988	0	50	93	50	130
1,3-Dichloropropane	1	45.5561	0	50	91	50	130
4-Methyl-2-Pentanone	1	40.1342	0	50	80	20	130
2-Hexanone	1	39.6314	0	50	79	20	130
Tetrachloroethene	1	47.3499	0	50	95	50	130
Toluene	1	44.3817	0	50	89	50	130
1,1,1,2-Tetrachloroethane	1	49.465	0	50	99	50	130
Chlorobenzene	1	42.187	0	50	84	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64307

n-Butyl acrylate	1	31.4529	0	50	63	50	130
n-Amyl acetate	1	38.1759	0	50	76	50	130
Bromoform	1	42.5865	0	50	85	20	130
Ethylbenzene	1	45.454	0	50	91	50	130
1,1,2,2-Tetrachloroethane	1	36.7101	0	50	73	50	130
Styrene	1	45.9495	0	50	92	50	130
m&p-Xylenes	1	83.3752	0	100	83	50	130
o-Xylene	1	41.5956	0	50	83	50	130
trans-1,4-Dichloro-2-butene	1	40.0909	0	50	80	20	130
1,3-Dichlorobenzene	1	42.7266	0	50	85	50	130
1,4-Dichlorobenzene	1	41.7483	0	50	83	50	130
1,2-Dichlorobenzene	1	42.9087	0	50	86	50	130
Isopropylbenzene	1	40.9099	0	50	82	50	130
Cyclohexanone	1	180.514	0	250	72	50	130
Camphene	1	42.2603	0	50	85	50	130
1,2,3-Trichloropropane	1	42.8148	0	50	86	50	130
2-Chlorotoluene	1	44.6097	0	50	89	50	130
p-Ethyltoluene	1	43.9309	0	50	88	50	130
4-Chlorotoluene	1	46.2716	0	50	93	50	130
n-Propylbenzene	1	41.7214	0	50	83	50	130
Bromobenzene	1	43.2018	0	50	86	50	130
1,3,5-Trimethylbenzene	1	38.2972	0	50	77	50	130
Butyl methacrylate	1	37.392	0	50	75	50	130
t-Butylbenzene	1	41.8507	0	50	84	50	130
1,2,4-Trimethylbenzene	1	39.9484	0	50	80	50	130
sec-Butylbenzene	1	40.1796	0	50	80	50	130
4-Isopropyltoluene	1	39.7219	0	50	79	50	130
n-Butylbenzene	1	40.1306	0	50	80	50	130
p-Diethylbenzene	1	42.2301	0	50	84	50	130
1,2,4,5-Tetramethylbenzene	1	39.2736	0	50	79	50	130
1,2-Dibromo-3-Chloropropane	1	36.5137	0	50	73	50	130
Camphor	1	251.0284	0	500	50	50	130
Hexachlorobutadiene	1	35.0004	0	50	70	50	130
1,2,4-Trichlorobenzene	1	31.5375	0	50	63	50	130
1,2,3-Trichlorobenzene	1	28.6857	0	50	57	50	130
Naphthalene	1	25.1884	0	50	50	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64307

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M59257.D	AD00091-024(MS)	9/29/2017 9:09:00 AM
Non Spike(If applicable):	6M59277.D	AD00091-024	9/29/2017 2:42:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	39.8635	0	50	80	20	130
Dichlorodifluoromethane	1	28.0765	0	50	56	20	130
Chloromethane	1	38.262	0	50	77	20	130
Bromomethane	1	36.6432	0	50	73	20	130
Vinyl Chloride	1	23.5948	0	50	47	20	130
Chloroethane	1	39.7443	0	50	79	20	130
Trichlorofluoromethane	1	51.533	0	50	103	20	130
Ethyl ether	1	33.119	0	50	66	50	130
Furan	1	23.7085	0	50	47*	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	42.5205	0	50	85	50	130
Methylene Chloride	1	35.7875	0	50	72	50	130
Acrolein	1	143.4806	0	200	72	20	130
Acrylonitrile	1	35.1931	0	50	70	20	130
Iodomethane	1	23.0118	0	50	46*	50	130
Acetone	1	242.5282	0	200	121	20	130
Carbon Disulfide	1	51.9508	0	50	104	50	130
t-Butyl Alcohol	1	171.1774	0	200	86	20	130
n-Hexane	1	35.3117	0	50	71	50	130
Di-isopropyl-ether	1	37.3683	0	50	75	50	130
1,1-Dichloroethene	1	28.6575	0	50	57	50	130
Methyl Acetate	1	37.8856	0	50	76	50	130
Methyl-t-butyl ether	1	32.7981	0	50	66	50	130
1,1-Dichloroethane	1	40.3315	0	50	81	50	130
trans-1,2-Dichloroethene	1	40.6148	0	50	81	50	130
Ethyl-t-butyl ether	1	31.8889	0	50	64	50	130
cis-1,2-Dichloroethene	1	40.2079	0	50	80	50	130
Bromochloromethane	1	28.7757	0	50	58	50	130
2,2-Dichloropropane	1	40.0924	0	50	80	50	130
Ethyl acetate	1	38.2165	0	50	76	50	130
1,4-Dioxane	1	2254.419	0	2500	90	50	130
1,1-Dichloropropene	1	41.0603	0	50	82	50	130
Chloroform	1	36.4694	0	50	73	50	130
Cyclohexane	1	34.9404	0	50	70	50	130
1,2-Dichloroethane	1	41.4891	0	50	83	50	130
2-Butanone	1	42.0447	0	50	84	20	130
1,1,1-Trichloroethane	1	40.9569	0	50	82	50	130
Carbon Tetrachloride	1	36.4267	0	50	73	50	130
Vinyl Acetate	1	29.7231	0	50	59	50	130
Bromodichloromethane	1	34.544	0	50	69	50	130
Methylcyclohexane	1	35.2553	0	50	71	50	130
Dibromomethane	1	41.5451	0	50	83	50	130
1,2-Dichloropropane	1	34.4827	0	50	69	50	130
Trichloroethene	1	25.9108	0	50	52	50	130
Benzene	1	32.5597	0	50	65	50	130
tert-Amyl methyl ether	1	30.1705	0	50	60	50	130
Iso-propylacetate	1	43.3083	0	50	87	50	130
Methyl methacrylate	1	49.3727	0	50	99	50	130
Dibromochloromethane	1	45.803	0	50	92	50	130
2-Chloroethylvinylether	1	39.5237	0	50	79	50	130
cis-1,3-Dichloropropene	1	48.503	0	50	97	50	130
trans-1,3-Dichloropropene	1	47.0076	0	50	94	50	130
Ethyl methacrylate	1	45.1695	0	50	90	50	130
1,1,2-Trichloroethane	1	54.801	0	50	110	50	130
1,2-Dibromoethane	1	45.668	0	50	91	50	130
1,3-Dichloropropane	1	54.2007	0	50	108	50	130
4-Methyl-2-Pentanone	1	45.1533	0	50	90	20	130
2-Hexanone	1	49.1212	0	50	98	20	130
Tetrachloroethene	1	55.7929	0	50	112	50	130
Toluene	1	47.8545	0	50	96	50	130
1,1,1,2-Tetrachloroethane	1	52.9831	0	50	106	50	130
Chlorobenzene	1	48.1178	0	50	96	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64307

n-Butyl acrylate	1	23.586	0	50	47*	50	130
n-Amyl acetate	1	29.9631	0	50	60	50	130
Bromoform	1	35.2066	0	50	70	20	130
Ethylbenzene	1	30.0534	0	50	60	50	130
1,1,2,2-Tetrachloroethane	1	31.8168	0	50	64	50	130
Styrene	1	34.5728	0	50	69	50	130
m&p-Xylenes	1	59.6228	0	100	60	50	130
o-Xylene	1	28.8077	0	50	58	50	130
trans-1,4-Dichloro-2-butene	1	32.54	0	50	65	20	130
1,3-Dichlorobenzene	1	31.4532	0	50	63	50	130
1,4-Dichlorobenzene	1	32.1446	0	50	64	50	130
1,2-Dichlorobenzene	1	32.6726	0	50	65	50	130
Isopropylbenzene	1	31.0477	0	50	62	50	130
Cyclohexanone	1	138.9404	0	250	56	50	130
Camphene	1	34.5305	0	50	69	50	130
1,2,3-Trichloropropane	1	37.4488	0	50	75	50	130
2-Chlorotoluene	1	39.8861	0	50	80	50	130
p-Ethyltoluene	1	32.4194	0	50	65	50	130
4-Chlorotoluene	1	37.2774	0	50	75	50	130
n-Propylbenzene	1	33.5616	0	50	67	50	130
Bromobenzene	1	37.7389	0	50	75	50	130
1,3,5-Trimethylbenzene	1	29.9986	0	50	60	50	130
Butyl methacrylate	1	32.1586	0	50	64	50	130
t-Butylbenzene	1	31.3335	0	50	63	50	130
1,2,4-Trimethylbenzene	1	29.3475	0	50	59	50	130
sec-Butylbenzene	1	29.1259	0	50	58	50	130
4-Isopropyltoluene	1	30.9337	0	50	62	50	130
n-Butylbenzene	1	31.3014	0	50	63	50	130
p-Diethylbenzene	1	33.1163	0	50	66	50	130
1,2,4,5-Tetramethylbenzene	1	30.4027	0	50	61	50	130
1,2-Dibromo-3-Chloropropane	1	31.0564	0	50	62	50	130
Camphor	1	478.3473	0	500	96	50	130
Hexachlorobutadiene	1	27.3384	0	50	55	50	130
1,2,4-Trichlorobenzene	1	24.5874	0	50	49*	50	130
1,2,3-Trichlorobenzene	1	22.9994	0	50	46*	50	130
Naphthalene	1	25.0174	0	50	50	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64307

Data File	Sample ID:	Analysis Date
Spike or Dup: 6M59258.D	AD00091-024(MSD)	9/29/2017 9:26:00 AM
Non Spike(If applicable): 6M59277.D	AD00091-024	9/29/2017 2:42:00 PM
Inst Blank(If applicable):		

Method: 8260C Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	53.6212	0	50	107	20	130
Dichlorodifluoromethane	1	28.9838	0	50	58	20	130
Chloromethane	1	40.4329	0	50	81	20	130
Bromomethane	1	36.0111	0	50	72	20	130
Vinyl Chloride	1	39.9415	0	50	80	20	130
Chloroethane	1	38.6589	0	50	77	20	130
Trichlorofluoromethane	1	52.2923	0	50	105	20	130
Ethyl ether	1	35.0986	0	50	70	50	130
Furan	1	36.181	0	50	72	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	43.0554	0	50	86	50	130
Methylene Chloride	1	37.3463	0	50	75	50	130
Acrolein	1	91.0123	0	200	46	20	130
Acrylonitrile	1	32.1245	0	50	64	20	130
Iodomethane	1	41.4824	0	50	83	50	130
Acetone	1	275.4014	0	200	138*	20	130
Carbon Disulfide	1	53.4698	0	50	107	50	130
t-Butyl Alcohol	1	160.889	0	200	80	20	130
n-Hexane	1	35.5929	0	50	71	50	130
Di-isopropyl-ether	1	34.7625	0	50	70	50	130
1,1-Dichloroethene	1	43.7102	0	50	87	50	130
Methyl Acetate	1	32.7766	0	50	66	50	130
Methyl-t-butyl ether	1	31.4797	0	50	63	50	130
1,1-Dichloroethane	1	38.4997	0	50	77	50	130
trans-1,2-Dichloroethene	1	39.1524	0	50	78	50	130
Ethyl-t-butyl ether	1	28.8234	0	50	58	50	130
cis-1,2-Dichloroethene	1	37.6711	0	50	75	50	130
Bromochloromethane	1	28.3662	0	50	57	50	130
2,2-Dichloropropane	1	34.4102	0	50	69	50	130
Ethyl acetate	1	37.7287	0	50	75	50	130
1,4-Dioxane	1	1891.192	0	2500	76	50	130
1,1-Dichloropropene	1	39.9262	0	50	80	50	130
Chloroform	1	33.3975	0	50	67	50	130
Cyclohexane	1	30.9365	0	50	62	50	130
1,2-Dichloroethane	1	37.4186	0	50	75	50	130
2-Butanone	1	29.4387	0	50	59	20	130
1,1,1-Trichloroethane	1	37.3736	0	50	75	50	130
Carbon Tetrachloride	1	36.4686	0	50	73	50	130
Vinyl Acetate	1	31.3002	0	50	63	50	130
Bromodichloromethane	1	32.535	0	50	65	50	130
Methylcyclohexane	1	34.8658	0	50	70	50	130
Dibromomethane	1	36.4936	0	50	73	50	130
1,2-Dichloropropane	1	33.3567	0	50	67	50	130
Trichloroethene	1	28.3944	0	50	57	50	130
Benzene	1	33.1748	0	50	66	50	130
tert-Amyl methyl ether	1	28.6872	0	50	57	50	130
Iso-propylacetate	1	37.9272	0	50	76	50	130
Methyl methacrylate	1	37.4277	0	50	75	50	130
Dibromochloromethane	1	38.0323	0	50	76	50	130
2-Chloroethylvinylether	1	35.7998	0	50	72	50	130
cis-1,3-Dichloropropene	1	40.2917	0	50	81	50	130
trans-1,3-Dichloropropene	1	39.9803	0	50	80	50	130
Ethyl methacrylate	1	40.0629	0	50	80	50	130
1,1,2-Trichloroethane	1	44.1038	0	50	88	50	130
1,2-Dibromoethane	1	41.3371	0	50	83	50	130
1,3-Dichloropropane	1	46.0973	0	50	92	50	130
4-Methyl-2-Pentanone	1	37.722	0	50	75	20	130
2-Hexanone	1	39.8634	0	50	80	20	130
Tetrachloroethene	1	47.2322	0	50	94	50	130
Toluene	1	40.6097	0	50	81	50	130
1,1,1,2-Tetrachloroethane	1	39.9707	0	50	80	50	130
Chlorobenzene	1	44.2151	0	50	88	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64307

n-Butyl acrylate	1	20.3952	0	50	41*	50	130
n-Amyl acetate	1	23.2272	0	50	46*	50	130
Bromoform	1	34.8214	0	50	70	20	130
Ethylbenzene	1	26.5404	0	50	53	50	130
1,1,2,2-Tetrachloroethane	1	27.6131	0	50	55	50	130
Styrene	1	31.6457	0	50	63	50	130
m&p-Xylenes	1	55.3437	0	100	55	50	130
o-Xylene	1	27.0899	0	50	54	50	130
trans-1,4-Dichloro-2-butene	1	29.4915	0	50	59	20	130
1,3-Dichlorobenzene	1	30.6817	0	50	61	50	130
1,4-Dichlorobenzene	1	29.6723	0	50	59	50	130
1,2-Dichlorobenzene	1	29.872	0	50	60	50	130
Isopropylbenzene	1	28.853	0	50	58	50	130
Cyclohexanone	1	153.7055	0	250	61	50	130
Camphene	1	31.1778	0	50	62	50	130
1,2,3-Trichloropropane	1	34.4503	0	50	69	50	130
2-Chlorotoluene	1	33.5518	0	50	67	50	130
p-Ethyltoluene	1	30.0788	0	50	60	50	130
4-Chlorotoluene	1	35.8599	0	50	72	50	130
n-Propylbenzene	1	31.107	0	50	62	50	130
Bromobenzene	1	36.0617	0	50	72	50	130
1,3,5-Trimethylbenzene	1	27.9892	0	50	56	50	130
Butyl methacrylate	1	30.3549	0	50	61	50	130
t-Butylbenzene	1	30.664	0	50	61	50	130
1,2,4-Trimethylbenzene	1	26.1812	0	50	52	50	130
sec-Butylbenzene	1	26.3274	0	50	53	50	130
4-Isopropyltoluene	1	28.8711	0	50	58	50	130
n-Butylbenzene	1	29.2496	0	50	58	50	130
p-Diethylbenzene	1	30.5	0	50	61	50	130
1,2,4,5-Tetramethylbenzene	1	28.6909	0	50	57	50	130
1,2-Dibromo-3-Chloropropane	1	28.5557	0	50	57	50	130
Camphor	1	407.6238	0	500	82	50	130
Hexachlorobutadiene	1	24.6675	0	50	49*	50	130
1,2,4-Trichlorobenzene	1	25.6733	0	50	51	50	130
1,2,3-Trichlorobenzene	1	23.2643	0	50	47*	50	130
Naphthalene	1	26.5186	0	50	53	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: MBS64307

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M59258.D	AD00091-024(MSD)	9/29/2017 9:26:00 AM
Duplicate(If applicable):	6M59257.D	AD00091-024(MS)	9/29/2017 9:09:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	53.6212	39.8635	29	30
Dichlorodifluoromethane	1	28.9838	28.0765	3.2	30
Chloromethane	1	40.4329	38.262	5.5	30
Bromomethane	1	36.0111	36.6432	1.7	30
Vinyl Chloride	1	39.9415	23.5948	51*	40
Chloroethane	1	38.6589	39.7443	2.8	30
Trichlorofluoromethane	1	52.2923	51.533	1.5	30
Ethyl ether	1	35.0986	33.119	5.8	30
Furan	1	36.181	23.7085	42*	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	43.0554	42.5205	1.3	30
Methylene Chloride	1	37.3463	35.7875	4.3	30
Acrolein	1	91.0123	143.4806	45*	30
Acrylonitrile	1	32.1245	35.1931	9.1	30
Iodomethane	1	41.4824	23.0118	57*	30
Acetone	1	275.4014	242.5282	13	30
Carbon Disulfide	1	53.4698	51.9508	2.9	30
t-Butyl Alcohol	1	160.889	171.1774	6.2	30
n-Hexane	1	35.5929	35.3117	0.79	30
Di-isopropyl-ether	1	34.7625	37.3683	7.2	30
1,1-Dichloroethene	1	43.7102	28.6575	42*	40
Methyl Acetate	1	32.7766	37.8856	14	30
Methyl-t-butyl ether	1	31.4797	32.7981	4.1	30
1,1-Dichloroethane	1	38.4997	40.3315	4.6	40
trans-1,2-Dichloroethene	1	39.1524	40.6148	3.7	30
Ethyl-t-butyl ether	1	28.8234	31.8889	10	30
cis-1,2-Dichloroethene	1	37.6711	40.2079	6.5	30
Bromochloromethane	1	28.3662	28.7757	1.4	30
2,2-Dichloropropane	1	34.4102	40.0924	15	30
Ethyl acetate	1	37.7287	38.2165	1.3	30
1,4-Dioxane	1	1891.192	2254.419	18	30
1,1-Dichloropropene	1	39.9262	41.0603	2.8	30
Chloroform	1	33.3975	36.4694	8.8	40
Cyclohexane	1	30.9365	34.9404	12	30
1,2-Dichloroethane	1	37.4186	41.4891	10	40
2-Butanone	1	29.4387	42.0447	35	40
1,1,1-Trichloroethane	1	37.3736	40.9569	9.1	30
Carbon Tetrachloride	1	36.4686	36.4267	0.11	40
Vinyl Acetate	1	31.3002	29.7231	5.2	30
Bromodichloromethane	1	32.535	34.544	6	30
Methylcyclohexane	1	34.8658	35.2553	1.1	30
Dibromomethane	1	36.4936	41.5451	13	30
1,2-Dichloropropane	1	33.3567	34.4827	3.3	30
Trichloroethene	1	28.3944	25.9108	9.1	40
Benzene	1	33.1748	32.5597	1.9	40
tert-Amyl methyl ether	1	28.6872	30.1705	5	30
Iso-propylacetate	1	37.9272	43.3083	13	30
Methyl methacrylate	1	37.4277	49.3727	28	30
Dibromochloromethane	1	38.0323	45.803	19	30
2-Chloroethylvinylether	1	35.7998	39.5237	9.9	30
cis-1,3-Dichloropropene	1	40.2917	48.503	18	30
trans-1,3-Dichloropropene	1	39.9803	47.0076	16	30
Ethyl methacrylate	1	40.0629	45.1695	12	30
1,1,2-Trichloroethane	1	44.1038	54.801	22	30
1,2-Dibromoethane	1	41.3371	45.668	10	30
1,3-Dichloropropane	1	46.0973	54.2007	16	30
4-Methyl-2-Pentanone	1	37.722	45.1533	18	30
2-Hexanone	1	39.8634	49.1212	21	30
Tetrachloroethene	1	47.2322	55.7929	17	40
Toluene	1	40.6097	47.8545	16	40
1,1,1,2-Tetrachloroethane	1	39.9707	52.9831	28	30
Chlorobenzene	1	44.2151	48.1178	8.5	40
n-Butyl acrylate	1	20.3952	23.586	15	30
n-Amyl acetate	1	23.2272	29.9631	25	30

Form3
RPD Data Laboratory Limits
QC Batch: MBS64307

Bromoform	1	34.8214	35.2066	1.1	30
Ethylbenzene	1	26.5404	30.0534	12	30
1,1,2,2-Tetrachloroethane	1	27.6131	31.8168	14	30
Styrene	1	31.6457	34.5728	8.8	30
m&p-Xylenes	1	55.3437	59.6228	7.4	30
o-Xylene	1	27.0899	28.8077	6.1	30
trans-1,4-Dichloro-2-butene	1	29.4915	32.54	9.8	30
1,3-Dichlorobenzene	1	30.6817	31.4532	2.5	30
1,4-Dichlorobenzene	1	29.6723	32.1446	8	40
1,2-Dichlorobenzene	1	29.872	32.6726	9	40
Isopropylbenzene	1	28.853	31.0477	7.3	30
Cyclohexanone	1	153.7055	138.9404	10	30
Camphene	1	31.1778	34.5305	10	30
1,2,3-Trichloropropane	1	34.4503	37.4488	8.3	30
2-Chlorotoluene	1	33.5518	39.8861	17	30
p-Ethyltoluene	1	30.0788	32.4194	7.5	30
4-Chlorotoluene	1	35.8599	37.2774	3.9	30
n-Propylbenzene	1	31.107	33.5616	7.6	40
Bromobenzene	1	36.0617	37.7389	4.5	30
1,3,5-Trimethylbenzene	1	27.9892	29.9986	6.9	30
Butyl methacrylate	1	30.3549	32.1586	5.8	30
t-Butylbenzene	1	30.664	31.3335	2.2	30
1,2,4-Trimethylbenzene	1	26.1812	29.3475	11	30
sec-Butylbenzene	1	26.3274	29.1259	10	40
4-Isopropyltoluene	1	28.8711	30.9337	6.9	30
n-Butylbenzene	1	29.2496	31.3014	6.8	30
p-Diethylbenzene	1	30.5	33.1163	8.2	30
1,2,4,5-Tetramethylbenzene	1	28.6909	30.4027	5.8	30
1,2-Dibromo-3-Chloropropane	1	28.5557	31.0564	8.4	30
Camphor	1	407.6238	478.3473	16	30
Hexachlorobutadiene	1	24.6675	27.3384	10	30
1,2,4-Trichlorobenzene	1	25.6733	24.5874	4.3	30
1,2,3-Trichlorobenzene	1	23.2643	22.9994	1.1	30
Naphthalene	1	26.5186	25.0174	5.8	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 6M59251.D
Matrix: Soil

Blank Analysis Date: 09/29/17 07:22
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260C

Sample Number	Data File	Analysis Date
AD00298-001	6M59253.D	09/29/17 08:03
AD00091-024	6M59277.D	09/29/17 14:42
AD00091-024(MSD	6M59258.D	09/29/17 09:26
AD00091-024(MS)	6M59257.D	09/29/17 09:09
MBS64307	6M59256.D	09/29/17 08:53

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6

Data File: 6M58197.D
Analysis Date: 09/07/17 05:28
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.059 to 4.069 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	23.5	113196	PASS
75	95	30	60	54.2	261536	PASS
95	95	100	100	100.0	482336	PASS
96	95	5	9	6.8	32948	PASS
173	174	0.00	2	1.3	4869	PASS
174	95	50	100	79.1	381472	PASS
175	174	5	9	7.0	26632	PASS
176	174	95	101	97.7	372576	PASS
177	176	5	9	5.9	21908	PASS

Data File	Sample Number	Analysis Date:
6M58200.D	CAL @ 0.5 PPB	09/07/17 06:11
6M58201.D	CAL @ 1 PPB	09/07/17 06:28
6M58202.D	CAL @ 2 PPB	09/07/17 06:45
6M58203.D	CAL @ 5 PPB	09/07/17 07:01
6M58204.D	CAL @ 20 PPB	09/07/17 07:18
6M58206.D	CAL @ 50 PPB	09/07/17 07:51
6M58208.D	CAL @ 500 PPB	09/07/17 08:25
6M58210.D	CAL @ 250 PPB	09/07/17 08:58
6M58212.D	CAL @ 100 PPB	09/07/17 09:31
6M58216.D	ICV	09/07/17 10:38

Data Path : G:\GcMsData\2017\GCMS_6\Data\09-07-17\
Data File : 6M58197.D
Acq On : 7 Sep 2017 5:28
Operator : SG
Sample : BFB TUNE
Misc : S,5g
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2017\GCMS_6\MethodQt\6M_S0724.M
Title : @GCMS_6,ug,624,8260
Last Update : Mon Jul 24 14:56:44 2017

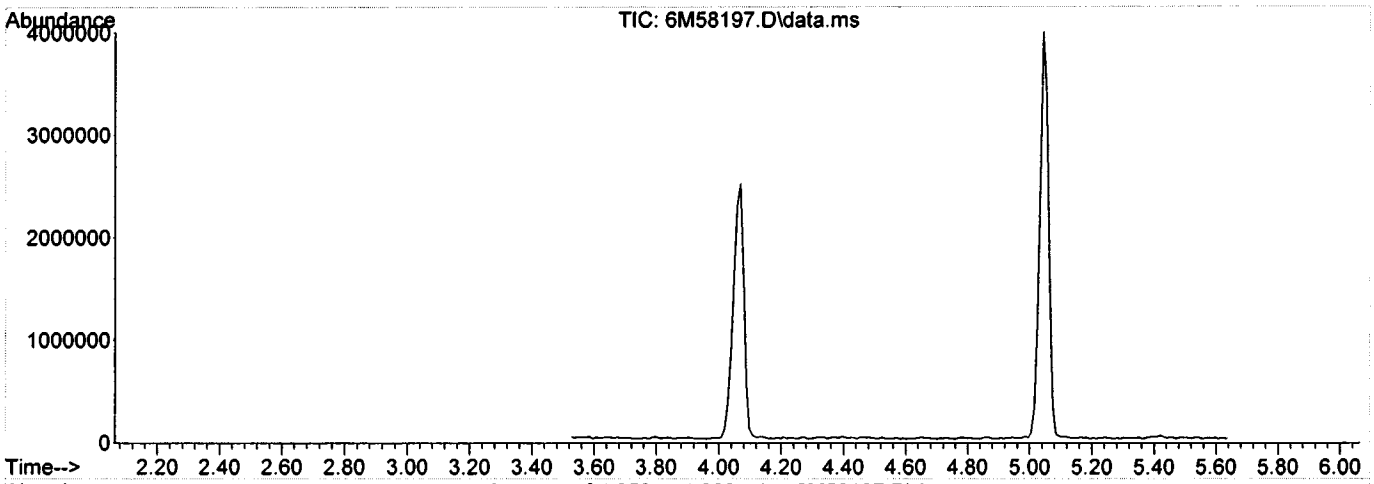

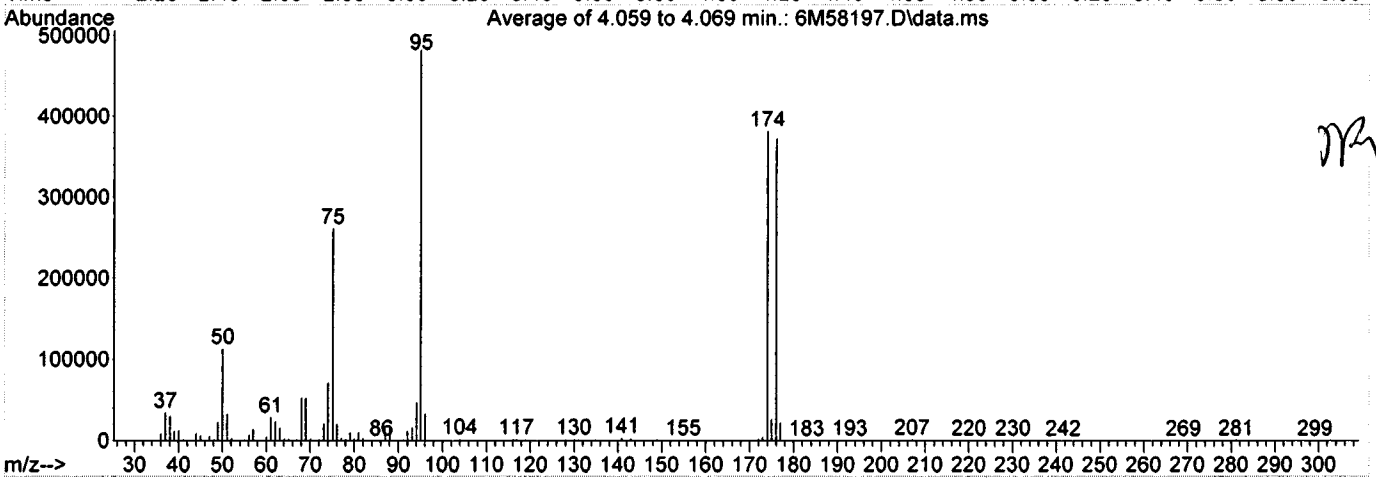

Spectrum Information: Average of 4.059 to 4.069 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	113196	PASS
75	95	30	60	54.2	261536	PASS
95	95	100	100	100.0	482336	PASS
96	95	5	9	6.8	32948	PASS
173	174	0.00	2	1.3	4869	PASS
174	95	50	100	79.1	381472	PASS
175	174	5	9	7.0	26632	PASS
176	174	95	101	97.7	372576	PASS
177	176	5	9	5.9	21908	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6

Data File: 6M59245.D
Analysis Date: 09/29/17 05:45
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.032 to 4.052 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	22.8	115475	PASS
75	95	30	60	52.6	267029	PASS
95	95	100	100	100.0	507520	PASS
96	95	5	9	7.3	36965	PASS
173	174	0.00	2	0.3	1184	PASS
174	95	50	100	87.5	444096	PASS
175	174	5	9	7.3	32605	PASS
176	174	95	101	96.1	426773	PASS
177	176	5	9	7.0	29712	PASS

Data File	Sample Number	Analysis Date:
6M59246.D	BLK	09/29/17 05:54
6M59247.D	50 PPB	09/29/17 06:15
6M59248.D	CAL @ 50 PPB	09/29/17 06:32
6M59249.D	BLK	09/29/17 06:48
6M59250.D	BLK	09/29/17 07:05
6M59251.D	DAILY BLANK	09/29/17 07:22
6M59252.D	BLK	09/29/17 07:46
6M59253.D	AD00298-001	09/29/17 08:03
6M59254.D	AD00289-008	09/29/17 08:19
6M59255.D	AD00289-007	09/29/17 08:36
6M59256.D	MBS64307	09/29/17 08:53
6M59257.D	AD00091-024(MS)	09/29/17 09:09
6M59258.D	AD00091-024(MSD	09/29/17 09:26
6M59259.D	BLK	09/29/17 09:43
6M59260.D	AD00296-011	09/29/17 09:59
6M59261.D	AD00289-001	09/29/17 10:16
6M59262.D	AD00289-002	09/29/17 10:32
6M59263.D	AD00289-003	09/29/17 10:49
6M59264.D	AD00289-004	09/29/17 11:06
6M59265.D	AD00289-005	09/29/17 11:22
6M59266.D	AD00289-006	09/29/17 11:39
6M59267.D	AD00289-009	09/29/17 11:56
6M59268.D	AD00290-001	09/29/17 12:12
6M59269.D	AD00290-003	09/29/17 12:29
6M59270.D	AD00290-005	09/29/17 12:46
6M59271.D	AD00290-007	09/29/17 13:02
6M59272.D	AD00290-009	09/29/17 13:19
6M59273.D	AD00290-013	09/29/17 13:36
6M59274.D	AD00290-011	09/29/17 13:52
6M59275.D	AD00316-023	09/29/17 14:09
6M59276.D	AD00316-025	09/29/17 14:26
6M59277.D	AD00091-024	09/29/17 14:42

Data Path : G:\GcMsData\2017\GCMS_6\Data\09-29-17\
Data File : 6M59245.D
Acq On : 29 Sep 2017 5:45
Operator : SG
Sample : BFB TUNE
Misc : S,5g
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2017\GCMS_6\MethodQt\6M_S0907.M
Title : @GCMS_6,ug,624,8260
Last Update : Thu Sep 07 09:58:16 2017

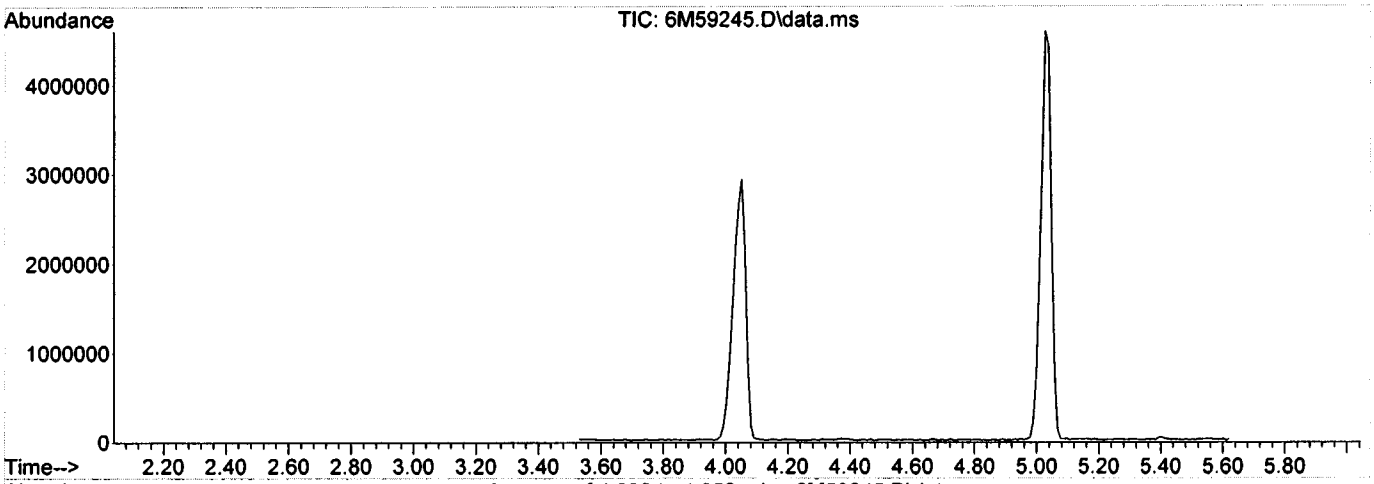

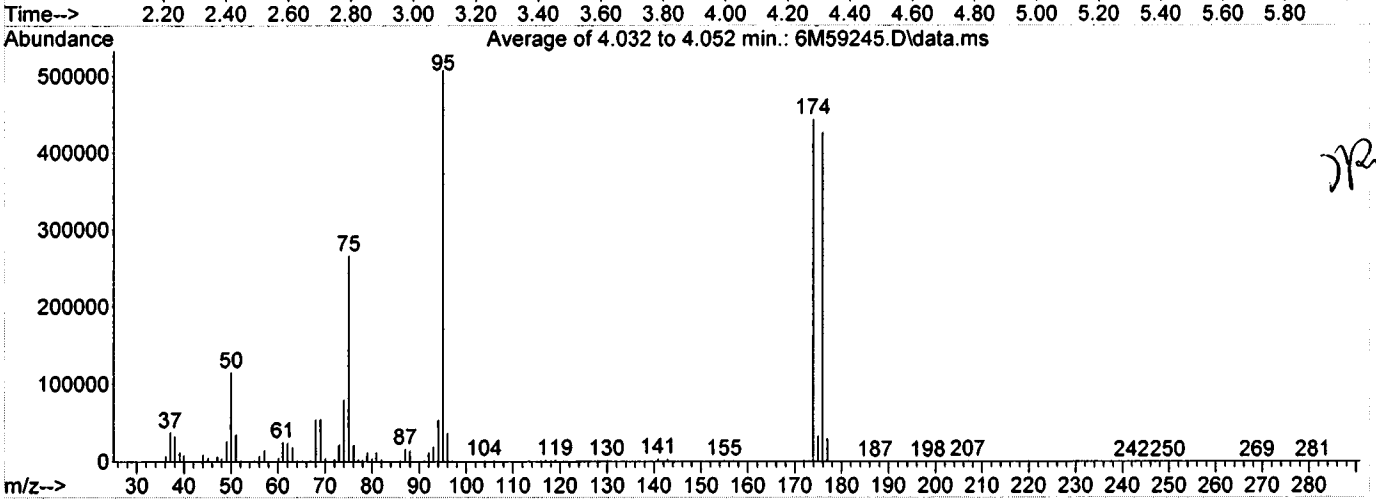

Spectrum Information: Average of 4.032 to 4.052 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.8	115475	PASS
75	95	30	60	52.6	267029	PASS
95	95	100	100	100.0	507520	PASS
96	95	5	9	7.3	36965	PASS
173	174	0.00	2	0.3	1184	PASS
174	95	50	100	87.5	444096	PASS
175	174	5	9	7.3	32605	PASS
176	174	95	101	96.1	426773	PASS
177	176	5	9	7.0	29712	PASS

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Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M58204.D	CAL @ 20 PPB	09/07/17 07:18	2	6M58203.D	CAL @ 5 PPB	09/07/17 07:01
3	6M58202.D	CAL @ 2 PPB	09/07/17 06:45	4	6M58206.D	CAL @ 50 PPB	09/07/17 07:51
5	6M58212.D	CAL @ 100 PPB	09/07/17 09:31	6	6M58210.D	CAL @ 250 PPB	09/07/17 08:58
7	6M58208.D	CAL @ 500 PPB	09/07/17 08:25	8	6M58201.D	CAL @ 1 PPB	09/07/17 06:28
9	6M58200.D	CAL @ 0.5 PPB	09/07/17 06:11				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.9855	1.2130	1.4696	0.9316	1.3288	1.1575	1.0733	----	----	1.17	1.45	0.996	0.999	16	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dichlorodifluorometha	1	0	Avg	0.6286	0.7638	0.7601	0.6418	0.9041	0.7814	0.7223	----	----	0.743	1.44	0.996	0.999	13	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloromethane	1	0	Avg	0.5564	0.6122	0.4689	0.5251	0.7607	0.6574	0.6127	----	----	0.599	1.61	0.996	0.998	16	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromomethane	1	0	Avg	0.3476	0.3865	0.4270	0.3155	0.4289	0.3815	0.3573	----	----	0.378	1.98	0.997	0.999	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Chloride	1	0	Avg	0.4862	0.4896	0.4890	0.4606	0.6501	0.5525	0.5186	----	----	0.521	1.69	0.996	0.998	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroethane	1	0	Avg	0.3451	0.4040	0.4811	0.3144	0.4340	0.3708	0.3533	----	----	0.386	2.06	0.997	0.999	15	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichlorofluoromethan	1	0	Avg	0.4718	0.6437	0.6954	0.4284	0.5396	0.5360	0.5101	----	----	0.546	2.28	0.999	0.999	17	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl ether	1	0	Avg	0.1905	0.2165	0.2817	0.1791	0.2514	0.2206	0.2192	----	----	0.223	2.49	0.999	0.999	16	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Furan	1	0	Avg	1.1019	0.8798	1.4430	1.0667	1.4483	1.2551	1.2446	----	----	1.21	2.54	0.998	0.999	17	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.5356	0.6290	0.7726	0.5218	0.6954	0.6153	0.5492	----	----	0.617	2.70	0.995	0.999	15	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methylene Chloride	1	0	Avg	0.3826	0.4081	0.4676	0.3354	0.4076	0.3748	0.3629	----	----	0.391	3.09	0.999	1.00	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acrolein	1	0	Qua	0.0115	0.0140	0.0169	0.0177	0.0219	0.0191	0.0201	----	----	0.0174	2.62	0.999	0.999	21		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Acrylonitrile	1	0	Avg	0.0424	0.0447	0.0489	0.0362	0.0480	0.0422	0.0439	----	----	0.0438	3.29	0.999	0.999	9.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iodomethane	1	0	Avg	0.5496	0.5746	0.4021	0.5431	0.7086	0.6458	0.6293	----	----	0.579	2.83	0.999	0.999	17		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acetone	1	0	Avg	0.0319	0.0326	0.0475	0.0352	0.0489	0.0397	0.0411	----	----	0.0396	2.73	0.998	0.998	17	0.10 a	100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Carbon Disulfide	1	0	Avg	1.2081	1.3518	0.9110	1.1995	1.5693	1.4637	1.3894	----	----	1.30	2.89	0.998	0.999	17	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butyl Alcohol	1	0	Avg	0.0085	0.0083	0.0104	0.0069	0.0081	0.0068	0.0077	----	----	0.00815	3.14	0.996	0.998	15		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
n-Hexane	1	0	Avg	0.7547	0.7978	0.8706	0.7509	1.0524	0.9545	0.8709	----	----	0.865	3.53	0.996	0.999	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Di-isopropyl-ether	1	0	Avg	1.2050	1.2505	1.4864	1.2252	1.5430	1.4212	1.3863	----	----	1.36	3.69	0.999	0.999	9.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1-Dichloroethene	1	0	Avg	0.9675	0.9759	0.8666	0.8869	1.2386	1.0937	0.9824	----	----	1.00	2.70	0.995	0.999	13	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl Acetate	1	0	Qua	0.2013	0.2143	0.3120	0.1554	0.1918	0.1593	0.1635	----	----	0.200	2.99	0.998	0.998	27	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl-t-butyl ether	1	0	Avg	0.4427	0.5302	0.5099	0.4308	0.5229	0.4887	0.4964	0.6765	----	0.512	3.30	1.00	1.00	15	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethane	1	0	Avg	0.9166	0.8143	0.9638	0.8640	1.0577	0.9820	0.9225	----	----	0.932	3.66	0.998	1.00	8.6	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,2-Dichloroethe	1	0	Avg	0.4241	0.5329	0.6859	0.4795	0.5879	0.5497	0.5064	----	----	0.538	3.31	0.997	0.999	16	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl-t-butyl ether	1	0	Avg	0.8647	0.8741	0.9587	0.8381	0.9999	0.9523	0.9698	----	----	0.923	3.96	1.00	1.00	6.7	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,2-Dichloroethene	1	0	Avg	0.8733	0.9239	1.0941	0.8172	1.0170	0.9600	0.9019	----	----	0.941	4.08	0.998	1.00	9.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromochloromethane	1	0	Avg	0.3751	0.2790	0.3042	0.3484	0.3814	0.3725	0.3653	----	----	0.347	4.24	1.00	1.00	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2,2-Dichloropropane	1	0	Avg	0.7768	0.8940	0.9527	0.7439	0.9413	0.9020	0.8590	----	----	0.867	4.09	0.999	0.999	9.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl acetate	1	0	Avg	0.1347	0.1732	0.1381	0.1401	0.1525	0.1334	0.1488	----	----	0.146	4.11	0.997	0.999	9.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dioxane	1	0	Avg	0.0013	0.0014	0.0016	0.0010	0.0013	0.0010	0.0013	----	----	0.00132	5.14	0.989	0.996	16		1000.	250.0	100.0	2500.	5000.	1250	2500		
1,1-Dichloropropene	1	0	Avg	0.8568	0.9170	0.9840	0.8681	0.9979	0.9242	0.8447	----	----	0.913	4.50	0.997	1.00	6.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroform	1	0	Avg	0.9441	1.0540	1.2008	0.8363	0.9368	0.9110	0.8767	----	----	0.966	4.28	0.999	1.00	13	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromofluoromethan	1	0	Avg	0.2588	0.2585	0.2724	0.2334	0.2439	0.2284	0.2295	0.2458	0.2599	0.248	4.38	-1	-1	6.3		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	1.0396	1.1238	1.3353	1.0782	1.3387	1.2673	1.1670	----	----	1.19	4.44	0.997	0.999	10	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloroethane-d4	1	0	Avg	0.1158	0.1166	0.1216	0.1123	0.1091	0.1087	0.1047	0.1233	0.1175	0.114	4.58	-1	-1	5.4		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.5499	0.6325	0.7422	0.4895	0.5216	0.4949	0.4650	----	----	0.557	4.62	0.999	1.00	18	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Butanone	1	0	Avg	0.0978	0.0980	0.0659	0.0651	0.0820	0.0606	0.0712	----	----	0.0773	4.09	0.992	0.995	20	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,1-Trichloroethane	1	0	Avg	0.9381	1.0202	1.2661	0.9165	1.0844	1.0273	0.9548	----	----	1.03	4.40	0.998	1.00	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Carbon Tetrachloride	1	0	Avg	0.8502	0.9424	1.1111	0.8444	0.9511	0.8579	0.8079	----	----	0.909	4.50	0.998	1.00	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Acetate	1	0	Avg	0.1647	0.1788	0.2381	0.1603	0.1882	0.1694	0.1729	----	----	0.182	3.30	0.999	0.999	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromodichloromethan	1	0	Avg	0.5366	0.6522	0.6420	0.5029	0.5541	0.5278	0.5411	----	----	0.565	5.21	1.00	1.00	10	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 12.5
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M58204.D	CAL @ 20 PPB	09/07/17 07:18	2	6M58203.D	CAL @ 5 PPB	09/07/17 07:01
3	6M58202.D	CAL @ 2 PPB	09/07/17 06:45	4	6M58206.D	CAL @ 50 PPB	09/07/17 07:51
5	6M58212.D	CAL @ 100 PPB	09/07/17 09:31	6	6M58210.D	CAL @ 250 PPB	09/07/17 08:58
7	6M58208.D	CAL @ 500 PPB	09/07/17 08:25	8	6M58201.D	CAL @ 1 PPB	09/07/17 06:28
9	6M58200.D	CAL @ 0.5 PPB	09/07/17 06:11				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.8900	1.0053	0.9958	0.9252	1.1791	1.0555	0.9620	-----	-----	1.00	5.06	0.996	0.999	9.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromomethane	1	0	Avg	0.1751	0.1846	0.2297	0.1568	0.1761	0.1698	0.1619	-----	-----	0.179	5.15	0.999	1.00	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloropropane	1	0	Avg	0.4115	0.5062	0.5648	0.3877	0.4342	0.4145	0.3967	-----	-----	0.445	5.08	0.999	1.00	15	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichloroethene	1	0	Avg	0.5428	0.6586	0.7625	0.5201	0.6066	0.5759	0.5304	-----	-----	0.600	4.95	0.998	1.00	14	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Benzene	1	0	Avg	1.7013	1.9042	2.2314	1.6574	1.9156	1.8400	1.7344	2.5945	-----	1.95	4.62	0.999	1.00	16	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
tert-Amyl methyl ether	1	0	Avg	0.5402	0.5701	0.6738	0.4908	0.5584	0.5975	0.5699	-----	-----	0.572	4.65	0.999	0.999	9.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iso-propylacetate	1	0	Avg	0.6358	0.6650	0.7267	0.5466	0.5990	0.6259	0.6599	-----	-----	0.637	4.62	0.999	1.00	8.9	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl methacrylate	1	0	Avg	0.3443	0.3178	0.4920	0.2886	0.3695	0.3602	0.3324	-----	-----	0.358	5.11	0.998	0.999	18	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromochloromethan	1	0	Avg	0.4903	0.5270	0.5493	0.4688	0.4920	0.5135	0.5154	-----	-----	0.508	6.03	1.00	1.00	5.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chloroethylvinylethe	1	0	Avg	0.1428	0.1677	0.2082	0.1384	0.1476	0.1576	0.1679	-----	-----	0.162	5.35	0.999	1.00	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,3-Dichloropropen	1	0	Avg	0.8414	0.8550	0.9530	0.8275	0.9438	0.9880	1.0012	-----	-----	0.916	5.44	1.00	1.00	7.9	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,3-Dichloroprop	1	0	Avg	0.5790	0.6140	0.7303	0.5779	0.6622	0.6932	0.7204	-----	-----	0.654	5.71	0.999	1.00	9.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl methacrylate	1	0	Avg	0.3924	0.4618	0.4379	0.4159	0.4520	0.4559	0.4719	-----	-----	0.441	5.73	1.00	1.00	6.4	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloroethane	1	0	Avg	0.3432	0.3955	0.4822	0.3241	0.3246	0.3287	0.3198	-----	-----	0.360	5.82	1.00	1.00	17	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromoethane	1	0	Qua	0.3125	0.3546	0.4647	0.3116	0.3125	0.3118	0.3137	0.7011	-----	0.385	6.10	1.00	1.00	36	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.6469	0.7026	0.9231	0.5957	0.6307	0.6033	0.5751	-----	-----	0.668	5.91	0.999	1.00	18		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Methyl-2-Pentanone	1	0	Avg	0.2497	0.2569	0.3432	0.2482	0.2409	0.2505	0.2652	-----	-----	0.265	5.50	0.999	1.00	13	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Hexanone	1	0	Avg	0.1691	0.1803	0.1913	0.1496	0.1597	0.1567	0.1720	-----	-----	0.168	5.92	0.998	1.00	8.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Tetrachloroethene	1	0	Avg	0.8468	0.9224	1.1001	0.8383	0.9308	0.9632	0.7954	-----	-----	0.914	5.90	0.990	0.999	11	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Toluene-d8	1	0	Avg	1.6645	1.5936	1.5853	1.6589	1.6482	1.5838	1.6599	1.6328	1.6319	1.63	5.58	-1	-1	2.0		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Qua	1.8397	1.9737	2.5301	1.8715	2.0815	2.0415	1.8871	3.4195	-----	2.21	5.62	0.998	1.00	24	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.5935	0.6554	0.6883	0.5724	0.5887	0.5830	0.5119	-----	-----	0.599	6.38	0.996	1.00	9.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chlorobenzene	1	0	Avg	1.8482	1.9392	2.3874	1.7659	1.9481	1.9023	1.7687	-----	-----	1.94	6.35	0.998	1.00	11	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Butyl acrylate	1	0	Avg	0.9928	1.3316	1.2073	1.1633	1.3924	1.7152	1.6248	-----	-----	1.35	6.59	0.998	0.998	19	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Amyl acetate	1	0	Avg	0.9551	0.8607	1.1576	1.0239	1.1747	1.3319	1.2847	-----	-----	1.11	6.70	0.999	0.999	16	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromoform	1	0	Avg	0.4624	0.4880	0.5808	0.4943	0.5160	0.6843	0.6049	-----	-----	0.547	6.78	0.994	0.996	14	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethylbenzene	1	0	Avg	1.9349	2.0525	2.5132	1.9599	2.4383	2.7262	1.8905	2.9938	-----	2.31	6.39	0.963	0.993	18	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.7210	0.8888	1.1081	0.7034	0.7127	0.7650	0.6570	-----	-----	0.794	7.00	0.994	0.999	20	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromofluorobenzene	1	0	Avg	0.8713	0.8126	0.8598	0.8784	0.8513	1.0214	0.9570	0.8229	0.8379	0.879	6.94	-1	-1	7.7		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	3.2097	3.3073	3.4640	3.4512	3.9728	4.4071	3.5374	-----	-----	3.62	6.66	0.986	0.997	12	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
m&p-Xylenes	1	0	Avg	2.5808	2.6654	2.8194	2.6178	3.0702	3.3541	2.5448	4.2092	3.8700	3.08	6.44	0.981	0.996	20	0.10	40.00	10.00	4.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	2.2947	2.3327	2.5953	2.2911	2.6847	2.9618	2.3058	3.7432	-----	2.65	6.66	0.983	0.997	19	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	1.0968	1.1082	1.1584	0.9954	1.1921	1.2485	1.0246	-----	-----	1.12	7.00	0.989	0.998	8.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3-Dichlorobenzene	1	0	Avg	2.8489	3.1830	3.7342	2.8214	3.0918	2.9791	2.7711	-----	-----	3.06	7.54	0.998	1.00	11	0.60	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dichlorobenzene	1	0	Avg	2.6564	3.0420	3.7248	2.6183	2.8438	2.7935	2.6359	-----	-----	2.90	7.59	0.999	1.00	14	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichlorobenzene	1	0	Avg	2.1727	2.4036	2.3665	2.1265	2.2590	2.2241	2.1919	-----	-----	2.25	7.81	1.00	1.00	4.5	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Isopropylbenzene	1	0	Avg	7.5749	7.8566	8.6469	7.9080	9.3649	10.503	7.8148	12.287	-----	8.99	6.84	0.976	0.995	18	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.0906	0.1181	0.1366	0.0936	0.1150	0.1218	0.0955	-----	-----	0.110	7.00	0.983	0.997	16		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Camphene	1	0	Avg	4.2415	4.2962	4.8482	4.4280	5.4963	5.9631	4.4777	-----	-----	4.82	7.00	0.976	0.996	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichloropropane	1	0	Avg	0.9349	0.9589	1.3388	0.9421	0.9915	1.1117	0.9781	-----	-----	1.04	7.03	0.996	0.998	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chlorotoluene	1	0	Avg	5.7267	5.8593	6.3699	5.2714	6.0729	5.7292	5.1714	-----	-----	5.74	7.13	0.997	1.00	7.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 12.5
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

7092827 0040

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M58204.D	CAL @ 20 PPB	09/07/17 07:18	2	6M58203.D	CAL @ 5 PPB	09/07/17 07:01
3	6M58202.D	CAL @ 2 PPB	09/07/17 06:45	4	6M58206.D	CAL @ 50 PPB	09/07/17 07:51
5	6M58212.D	CAL @ 100 PPB	09/07/17 09:31	6	6M58210.D	CAL @ 250 PPB	09/07/17 08:58
7	6M58208.D	CAL @ 500 PPB	09/07/17 08:25	8	6M58201.D	CAL @ 1 PPB	09/07/17 06:28
9	6M58200.D	CAL @ 0.5 PPB	09/07/17 06:11				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	8.3057	8.4325	9.2306	8.3989	9.6699	9.2599	8.0542	-----	-----	8.76	7.12	0.994	1.00	7.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Chlorotoluene	1	0	Avg	4.6568	5.4643	5.6493	5.1257	5.4221	5.2224	5.1605	-----	-----	5.24	7.19	1.00	1.00	6.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Propylbenzene	1	0	Avg	9.6266	10.020	11.144	9.8545	11.709	11.700	8.7871	13.364	-----	10.8	7.06	0.977	0.998	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	3.2378	3.5793	3.7149	3.1082	3.4030	3.7082	3.2631	-----	-----	3.43	7.04	0.996	0.999	7.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3,5-Trimethylbenzen	1	0	Avg	6.1813	6.6712	7.1546	6.4763	7.1088	6.5669	5.8401	9.1803	-----	6.90	7.15	0.996	1.00	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	1.8301	1.6302	2.0508	1.8511	2.0833	2.0762	2.0771	-----	-----	1.94	7.16	1.00	1.00	9.1	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butylbenzene	1	0	Avg	5.5780	5.9066	6.4134	6.0816	7.0553	6.6183	6.0290	8.4928	-----	6.52	7.34	0.997	1.00	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	6.0862	6.4055	6.5033	6.2198	7.0171	6.6303	6.1509	9.3944	-----	6.80	7.36	0.998	1.00	16		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	8.2784	8.4703	8.7845	8.6620	10.339	9.6921	8.0878	10.845	-----	9.15	7.45	0.990	0.999	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	6.3764	6.5063	6.8248	6.7663	7.7643	7.2045	6.4565	8.1324	-----	7.00	7.52	0.996	1.00	9.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	8.5859	9.2774	9.3854	9.1061	10.276	9.6351	8.4520	11.412	-----	9.52	7.75	0.995	1.00	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	3.9941	3.8505	3.9646	4.3071	4.8018	4.5481	4.0465	-----	-----	4.22	7.74	0.996	1.00	8.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4,5-Tetramethylbe	1	0	Avg	4.1160	4.3912	4.5243	4.6022	5.1245	5.2238	4.9187	-----	-----	4.70	8.19	0.999	1.00	8.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromo-3-Chloro	1	0	Avg	0.0807	0.0704	0.0983	0.0763	0.0700	0.0854	0.0944	-----	-----	0.0822	8.25	0.996	1.00	14	0.05	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Camphor	1	0	Avg	0.0159	0.0172	0.0171	0.0142	0.0180	0.0191	0.0219	-----	-----	0.0177	8.67	0.996	1.00	14		200.0	50.00	20.00	500.0	1000.	2500.	5000.		
Hexachlorobutadiene	1	0	Avg	1.3338	1.5418	2.2860	1.4181	1.6495	1.6728	1.5093	-----	-----	1.63	8.81	0.997	0.999	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4-Trichlorobenzen	1	0	Avg	1.1332	1.0844	1.3321	1.1534	1.2257	1.2600	1.2406	-----	-----	1.20	8.72	1.00	1.00	7.1	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichlorobenzen	1	0	Avg	0.7929	0.9783	0.9256	0.7811	0.8138	0.8272	0.8253	-----	-----	0.849	9.02	1.00	1.00	8.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Naphthalene	1	0	Avg	0.8774	1.0627	1.1434	0.9209	1.0636	1.0073	1.0664	1.1192	-----	1.03	8.88	0.999	1.00	9.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 12.5
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 6M59248.D **Instrument:** GCMS 6

Cont Calibration Date/Time 9/29/2017 6:32:00 A Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	4.75	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.43	30.51	50	20	0.1	1.166	0.711	38.97	C1
Dichlorodifluoromethane	1	0		1.42	41.32	50	20	0.1	0.743	0.614	17.36	
Chloromethane	1	0		1.58	56.23	50	20	0.1	0.599	0.674	12.46	
Bromomethane	1	0		1.96	54.91	50	20	0.1	0.378	0.415	9.81	
Vinyl Chloride	1	0		1.68	53.91	50	20	0.1	0.521	0.562	7.83	
Chloroethane	1	0		2.04	56.64	50	20	0.1	0.386	0.437	13.28	
Trichlorofluoromethane	1	0		2.26	64.31	50	20	0.1	0.546	0.703	28.61	C1
Ethyl ether	1	0		2.49	50.05	50	20	0.5	0.223	0.223	0.09	
Furan	1	0		2.52	54.51	50	20	0.5	1.206	1.314	9.01	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.67	57.31	50	20	0.1	0.617	0.707	14.62	
Methylene Chloride	1	0		3.07	51.71	50	20	0.1	0.391	0.405	3.43	
Acrolein	1	0		2.60	237.31	250	20		0.017	0.018	5.08	
Acrylonitrile	1	0		3.28	52.64	50	20		0.044	0.046	5.27	
Iodomethane	1	0		2.81	53.49	50	20		0.579	0.620	6.99	
Acetone	1	0		2.72	242.78	250	20	0.1	0.040	0.038	2.89	
Carbon Disulfide	1	0		2.87	57.69	50	20	0.1	1.299	1.499	15.39	
t-Butyl Alcohol	1	0		3.12	211.61	250	20		0.008	0.007	15.36	
n-Hexane	1	0		3.51	54.39	50	20		0.865	0.940	8.77	
Di-isopropyl-ether	1	0		3.67	54.23	50	20		1.360	1.475	8.45	
1,1-Dichloroethene	1	0		2.68	59.67	50	20	0.1	1.002	1.195	19.34	
Methyl Acetate	1	0		2.98	40.53	50	20	0.1	0.200	0.136	18.95	
Methyl-t-butyl ether	1	0		3.28	46.54	50	20	0.1	0.512	0.477	6.92	
1,1-Dichloroethane	1	0		3.64	56.77	50	20	0.2	0.932	1.058	13.53	
trans-1,2-Dichloroethene	1	0		3.29	59.78	50	20	0.1	0.538	0.643	19.55	
Ethyl-t-butyl ether	1	0		3.94	49.18	50	20	0.5	0.923	0.907	1.64	
cis-1,2-Dichloroethene	1	0		4.07	59.21	50	20	0.1	0.941	1.115	18.43	
Bromochloromethane	1	0		4.23	44.94	50	20		0.347	0.312	10.12	
2,2-Dichloropropane	1	0		4.07	59.93	50	20		0.867	1.039	19.87	
Ethyl acetate	1	0		4.10	53.30	50	20		0.146	0.155	6.60	
1,4-Dioxane	1	0		5.13	3108.35	2500	20		0.001	0.002	24.33	C1
1,1-Dichloropropene	1	0		4.49	59.94	50	20		0.913	1.095	19.87	
Chloroform	1	0		4.27	58.54	50	20	0.2	0.966	1.131	17.09	
Dibromofluoromethane	1	0	S	4.37	30.16	75	**		0.248	0.249	0.52	
Cyclohexane	1	0		4.43	50.21	50	20	0.1	1.193	1.198	0.41	
1,2-Dichloroethane-d4	1	0	S	4.57	29.62	75	**		0.114	0.113	1.25	
1,2-Dichloroethane	1	0		4.61	59.58	50	20	0.1	0.557	0.663	19.16	
2-Butanone	1	0		4.08	52.64	50	20	0.1	0.077	0.081	5.28	
1,1,1-Trichloroethane	1	0		4.39	59.75	50	20	0.1	1.030	1.231	19.50	
Carbon Tetrachloride	1	0		4.49	54.94	50	20	0.1	0.909	0.999	9.88	
Vinyl Acetate	1	0		3.28	47.33	50	20		0.182	0.172	5.35	
Bromodichloromethane	1	0		5.20	55.72	50	20	0.2	0.565	0.630	11.45	
Methylcyclohexane	1	0		5.05	57.02	50	20	0.1	1.002	1.143	14.04	
Dibromomethane	1	0		5.14	59.54	50	20		0.179	0.213	19.08	
1,2-Dichloropropane	1	0		5.07	53.93	50	20	0.1	0.445	0.480	7.86	
Trichloroethene	1	0		4.95	47.29	50	20	0.2	0.600	0.567	5.42	
Benzene	1	0		4.61	51.46	50	20	0.5	1.947	2.004	2.91	
tert-Amyl methyl ether	1	0		4.64	46.79	50	20		0.572	0.535	6.42	
Chlorobenzene-d5	1	0	I	6.32	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.61	57.09	50	20	0.5	0.637	0.727	14.18	
Methyl methacrylate	1	0		5.10	61.48	50	20	0.5	0.358	0.440	22.95	C1
Dibromochloromethane	1	0		6.02	62.09	50	20	0.1	0.508	0.631	24.18	C1

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 6M59248.D **Instrument:** GCMS 6

Cont Calibration Date/Time 9/29/2017 6:32:00 A Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.34	60.44	50	20		0.162	0.195	20.89	C1
cis-1,3-Dichloropropene	1	0		5.43	73.22	50	20	0.2	0.916	1.341	46.45	C1
trans-1,3-Dichloropropene	1	0		5.71	70.98	50	20	0.1	0.654	0.928	41.96	C1
Ethyl methacrylate	1	0		5.73	65.96	50	20	0.5	0.441	0.582	31.92	C1
1,1,2-Trichloroethane	1	0		5.81	73.28	50	20	0.1	0.360	0.527	46.55	C1
1,2-Dibromoethane	1	0		6.10	65.85	50	20	0.1	0.385	0.410	31.70	C1
1,3-Dichloropropane	1	0		5.90	72.26	50	20		0.668	0.966	44.52	C1
4-Methyl-2-Pentanone	1	0		5.50	59.75	50	20	0.1	0.265	0.317	19.50	
2-Hexanone	1	0		5.91	58.27	50	20	0.1	0.168	0.196	16.54	
Tetrachloroethene	1	0		5.89	80.56	50	20	0.2	0.914	1.472	61.11	C1
Toluene-d8	1	0	S	5.58	36.72	75	**		1.629	1.994	22.41	
Toluene	1	0		5.61	68.65	50	20	0.4	2.206	2.896	37.31	C1
1,1,1,2-Tetrachloroethane	1	0		6.37	69.26	50	20		0.599	0.830	38.51	C1
Chlorobenzene	1	0		6.34	70.43	50	20	0.5	1.937	2.729	40.86	C1
1,4-Dichlorobenzene-d4	1	0	I	7.57	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.58	46.42	50	20	0.5	1.347	1.250	7.15	
n-Amyl acetate	1	0		6.70	50.24	50	20	0.5	1.113	1.118	0.48	
Bromoform	1	0		6.77	61.20	50	20	0.1	0.547	0.670	22.40	C1
Ethylbenzene	1	0		6.38	49.26	50	20	0.1	2.314	2.279	1.49	
1,1,2,2-Tetrachloroethane	1	0		6.99	53.37	50	20	0.1	0.794	0.847	6.74	
Bromofluorobenzene	1	0	S	6.93	32.09	75	**		0.879	0.940	6.96	
Styrene	1	0		6.65	59.90	50	20	0.3	3.621	4.339	19.80	
m&p-Xylenes	1	0		6.44	101.61	100	20	0.1	3.081	3.131	1.61	
o-Xylene	1	0		6.65	50.75	50	20	0.3	2.651	2.691	1.49	
trans-1,4-Dichloro-2-butene	1	0		7.00	56.95	50	20		1.118	1.273	13.91	
1,3-Dichlorobenzene	1	0		7.54	54.73	50	20	0.6	3.061	3.351	9.45	
1,4-Dichlorobenzene	1	0		7.59	54.45	50	20	0.5	2.902	3.160	8.90	
1,2-Dichlorobenzene	1	0		7.80	54.43	50	20	0.4	2.249	2.449	8.86	
Isopropylbenzene	1	0		6.83	52.55	50	20	0.1	8.995	9.453	5.10	
Cyclohexanone	1	0		7.00	246.23	250	20		0.110	0.109	1.51	
Camphene	1	0		7.00	59.69	50	20		4.822	5.756	19.38	
1,2,3-Trichloropropane	1	0		7.03	59.91	50	20		1.037	1.242	19.82	
2-Chlorotoluene	1	0		7.12	57.53	50	20		5.743	6.608	15.07	
p-Ethyltoluene	1	0		7.11	57.87	50	20		8.765	10.145	15.75	
4-Chlorotoluene	1	0		7.18	60.72	50	20		5.243	6.367	21.44	C1
n-Propylbenzene	1	0		7.06	56.95	50	20		10.776	12.274	13.90	
Bromobenzene	1	0		7.03	58.31	50	20		3.431	4.001	16.62	
1,3,5-Trimethylbenzene	1	0		7.14	50.61	50	20		6.897	6.981	1.21	
Butyl methacrylate	1	0		7.15	53.14	50	20	0.5	1.943	2.065	6.28	
t-Butylbenzene	1	0		7.33	55.82	50	20		6.522	7.281	11.63	
1,2,4-Trimethylbenzene	1	0		7.35	51.28	50	20		6.801	6.975	2.56	
sec-Butylbenzene	1	0		7.45	50.23	50	20		9.145	9.187	0.46	
4-Isopropyltoluene	1	0		7.52	52.43	50	20		7.004	7.344	4.85	
n-Butylbenzene	1	0		7.75	51.90	50	20		9.517	9.879	3.80	
p-Diethylbenzene	1	0		7.74	55.05	50	20		4.216	4.642	10.10	
1,2,4,5-Tetramethylbenzene	1	0		8.18	52.16	50	20		4.700	4.903	4.31	
1,2-Dibromo-3-Chloropropane	1	0		8.25	41.62	50	20	0.05	0.082	0.068	16.75	
Camphor	1	0		8.67	430.96	500	20		0.018	0.015	13.81	
Hexachlorobutadiene	1	0		8.80	50.37	50	20		1.630	1.642	0.74	
1,2,4-Trichlorobenzene	1	0		8.72	48.10	50	20	0.2	1.204	1.158	3.80	
1,2,3-Trichlorobenzene	1	0		9.01	43.78	50	20		0.849	0.743	12.45	
Naphthalene	1	0		8.88	47.20	50	20		1.033	0.975	5.59	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

7092827 0043

FORM8

Internal Standard Areas

Evaluation Std Data File: 6M58204.D Method: EPA 8260C

Analysis Date/Time: 09/07/17 07:18

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	221245	4.76	122422	6.33	58835	7.57								
Eval File Area Limit:	110622-442490		61211-244844		29418-117670									
Eval File Rt Limit:	4.26-5.26		5.83-6.83		7.07-8.07									

Data File	Sample						
6M58200.D	CAL @ 0.5 PPB	201509	4.76	107609	6.33	46309	7.57
6M58201.D	CAL @ 1 PPB	200880	4.76	109155	6.33	51276	7.57
6M58202.D	CAL @ 2 PPB	215580	4.76	121488	6.33	56120	7.58
6M58203.D	CAL @ 5 PPB	202042	4.76	114052	6.33	54207	7.58
6M58204.D	CAL @ 20 PPB	221245	4.76	122422	6.33	58835	7.57
6M58206.D	CAL @ 50 PPB	265114	4.76	143311	6.33	67986	7.58
6M58208.D	CAL @ 500 PPB	238632	4.77	132837	6.35	57930	7.59
6M58210.D	CAL @ 250 PPB	268404	4.76	143282	6.33	54251	7.57
6M58212.D	CAL @ 100 PPB	242458	4.76	138078	6.33	61562	7.58
6M58216.D	ICV	226291	4.76	124385	6.33	52478	7.58

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

7092827 0044

FORM8

Internal Standard Areas

Evaluation Std Data File: 6M59248.D Method: EPA 8260C

Analysis Date/Time: 09/29/17 06:32

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	203204	4.75	85877	6.32	43315	7.57								
Eval File Area Limit:	101602-406408		42938-171754		21658-86630									
Eval File Rt Limit:	4.25-5.25		5.82-6.82		7.07-8.07									

Data File	Sample						
6M59246.D	BLK	150344	4.75	89253	6.32	35124	7.57
6M59247.D	50 PPB	204742	4.75	108935	6.32	46425	7.57
6M59249.D	BLK	165083	4.75	81669	6.32	32302	7.57
6M59250.D	BLK	161638	4.75	71539	6.32	29403	7.57
6M59251.D	DAILY BLANK	175495	4.75	92814	6.32	34937	7.57
6M59252.D	BLK	186777	4.74	96998	6.32	31318	7.57
6M59253.D	AD00298-001	163949	4.75	84388	6.32	31276	7.57
6M59254.D	AD00289-008	157573	4.76	63242	6.33	29725	7.58
6M59255.D	AD00289-007	154530	4.75	84315	6.32	31881	7.57
6M59256.D	MBS64307	183073	4.75	95624	6.32	43542	7.57
6M59257.D	AD00091-024(MS)	198746	4.75	75341	6.32	43489	7.57
6M59258.D	AD00091-024(MSD)	180476	4.75	78934	6.32	43504	7.57
6M59259.D	BLK	187962	4.75	100510	6.32	39515	7.57
6M59260.D	AD00296-011	162045	4.75	68317	6.32	31653	7.57
6M59261.D	AD00289-001	159547	4.75	89263	6.32	35374	7.57
6M59262.D	AD00289-002	166357	4.75	94201	6.32	35770	7.57
6M59263.D	AD00289-003	177309	4.75	93416	6.32	35381	7.57
6M59264.D	AD00289-004	158735	4.75	70914	6.32	30697	7.57
6M59265.D	AD00289-005	159040	4.76	91093	6.33	33557	7.57
6M59266.D	AD00289-006	157378	4.75	87858	6.32	31671	7.57
6M59267.D	AD00289-009	162437	4.76	91094	6.33	33537	7.58
6M59268.D	AD00290-001	147882	4.76	77572	6.33	27198	7.58
6M59269.D	AD00290-003	157726	4.75	85924	6.33	31330	7.57
6M59270.D	AD00290-005	152620	4.75	81606	6.33	23353	7.57
6M59271.D	AD00290-007	160854	4.75	85959	6.32	26901	7.57
6M59272.D	AD00290-009	168350	4.75	95438	6.32	28973	7.57
6M59273.D	AD00290-013	161326	4.75	83527	6.33	33673	7.57
6M59274.D	AD00290-011	162709	4.75	77938	6.32	32211	7.57
6M59275.D	AD00316-023	147107	4.76	83235	6.33	28018	7.58
6M59276.D	AD00316-025	142192	4.76	59310	6.33	26903	7.57
6M59277.D	AD00091-024	162201	4.75	88966	6.32	29979	7.57

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

TCLP Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD00298-001(T)
Client Id: 475 EXTERIOR NYRECYC
Data File: 3M117852.D
Analysis Date: 10/02/17 09:16
Date Rec/Extracted: 09/28/17-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
75-35-4	1,1-Dichloroethene	0.0010	U	108-90-7	Chlorobenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.00050	U	67-66-3	Chloroform	0.0010	U
106-46-7	1,4-Dichlorobenzene	0.0010	U	127-18-4	Tetrachloroethene	0.0010	U
78-93-3	2-Butanone	0.0010	U	79-01-6	Trichloroethene	0.0010	U
71-43-2	Benzene	0.00050	U	75-01-4	Vinyl Chloride	0.0010	U
56-23-5	Carbon Tetrachloride	0.0010	U				

Worksheet #: 439213

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

7092827 0047

SampleID : AD00298-001(T) Operator : SG Qt Meth : 3M_A0830.M
Data File: 3M117852.D Sam Mult : 1 Vial# : 10 Qt On : 10/02/17 09:39
Acq On : 10/ 2/17 09:16 Misc : A,5ML!11 Qt Upd On: 08/31/17 08:56

Data Path : G:\GcMsData\2017\GCMS_3\Data\10-02-17\
Qt Path : G:\GcMsData\2017\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.934	96	267821	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.766	117	243367	30.00	ug/l	-0.03
70) 1,4-Dichlorobenzene-d4	8.207	152	102317	30.00	ug/l	-0.03
System Monitoring Compounds						
37) Dibromofluoromethane	4.513	111	83110	33.34	ug/l	-0.02
Spiked Amount 30.000			Recovery = 111.13%			
39) 1,2-Dichloroethane-d4	4.735	67	64006	33.73	ug/l	-0.02
Spiked Amount 30.000			Recovery = 112.43%			
66) Toluene-d8	5.889	98	289766	27.04	ug/l	-0.03
Spiked Amount 30.000			Recovery = 90.13%			
76) Bromofluorobenzene	7.474	174	103961	27.93	ug/l	-0.03
Spiked Amount 30.000			Recovery = 93.10%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

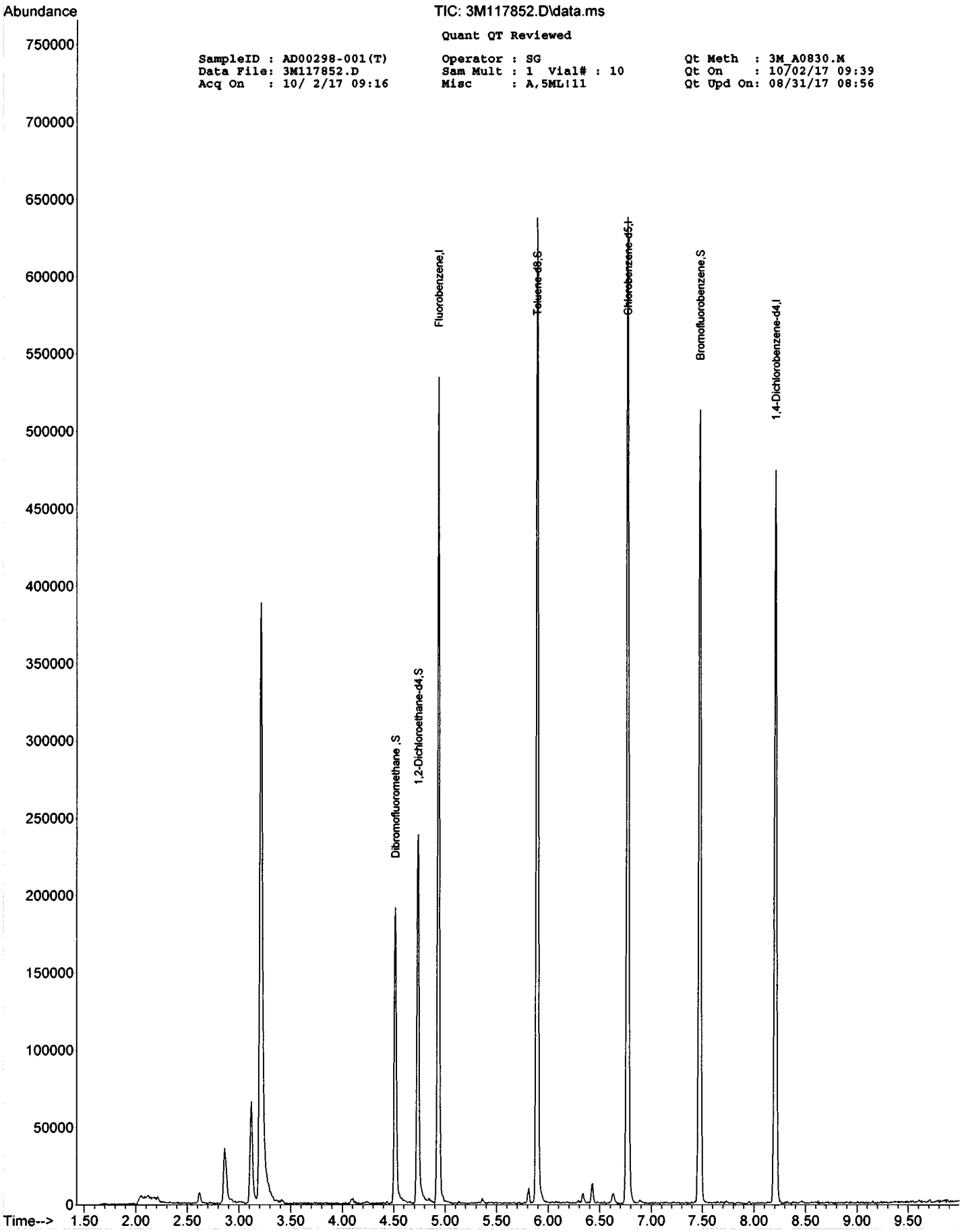
Abundance
TIC: 3M117852.D\data.ms
Quant QT Reviewed
SampleID : AD00298-001(T)
Data File: 3M117852.D
Acq On : 10/ 2/17 09:16
Operator : SG
Sam Mult : 1 Vial# : 10
Misc : A,5ML;11
Qt Meth : 3M_A0830.M
Qt On : 10/02/17 09:39
Qt Upd On: 08/31/17 08:56
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 3M117850.D
Analysis Date: 10/02/17 08:38
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
75-35-4	1,1-Dichloroethene	0.0010	U	108-90-7	Chlorobenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.00050	U	67-66-3	Chloroform	0.0010	U
106-46-7	1,4-Dichlorobenzene	0.0010	U	127-18-4	Tetrachloroethene	0.0010	U
78-93-3	2-Butanone	0.0010	U	79-01-6	Trichloroethene	0.0010	U
71-43-2	Benzene	0.00050	U	75-01-4	Vinyl Chloride	0.0010	U
56-23-5	Carbon Tetrachloride	0.0010	U				

Worksheet #: 439213

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

7092827 0050

SampleID : DAILY BLANK
Data File: 3M117850.D
Acq On : 10/ 2/17 08:38

Operator : SG
Sam Mult : 1 Vial# : 8
Misc : A,5ML

Qt Meth : 3M_A0830.M
Qt On : 10/02/17 09:11
Qt Upd On: 08/31/17 08:56

Data Path : G:\GcMsData\2017\GCMS_3\Data\10-02-17\
Qt Path : G:\GcMsData\2017\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
4) Fluorobenzene	4.934	96	294126	30.00 ug/l	-0.02
52) Chlorobenzene-d5	6.766	117	276144	30.00 ug/l	-0.03
70) 1,4-Dichlorobenzene-d4	8.208	152	114800	30.00 ug/l	-0.03
System Monitoring Compounds					
37) Dibromofluoromethane	4.513	111	91176	33.31 ug/l	-0.02
Spiked Amount 30.000			Recovery	= 111.03%	
39) 1,2-Dichloroethane-d4	4.736	67	71645	34.38 ug/l	-0.02
Spiked Amount 30.000			Recovery	= 114.60%	
66) Toluene-d8	5.889	98	324448	26.68 ug/l	-0.03
Spiked Amount 30.000			Recovery	= 88.93%	
76) Bromofluorobenzene	7.475	174	115858	27.75 ug/l	-0.03
Spiked Amount 30.000			Recovery	= 92.50%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

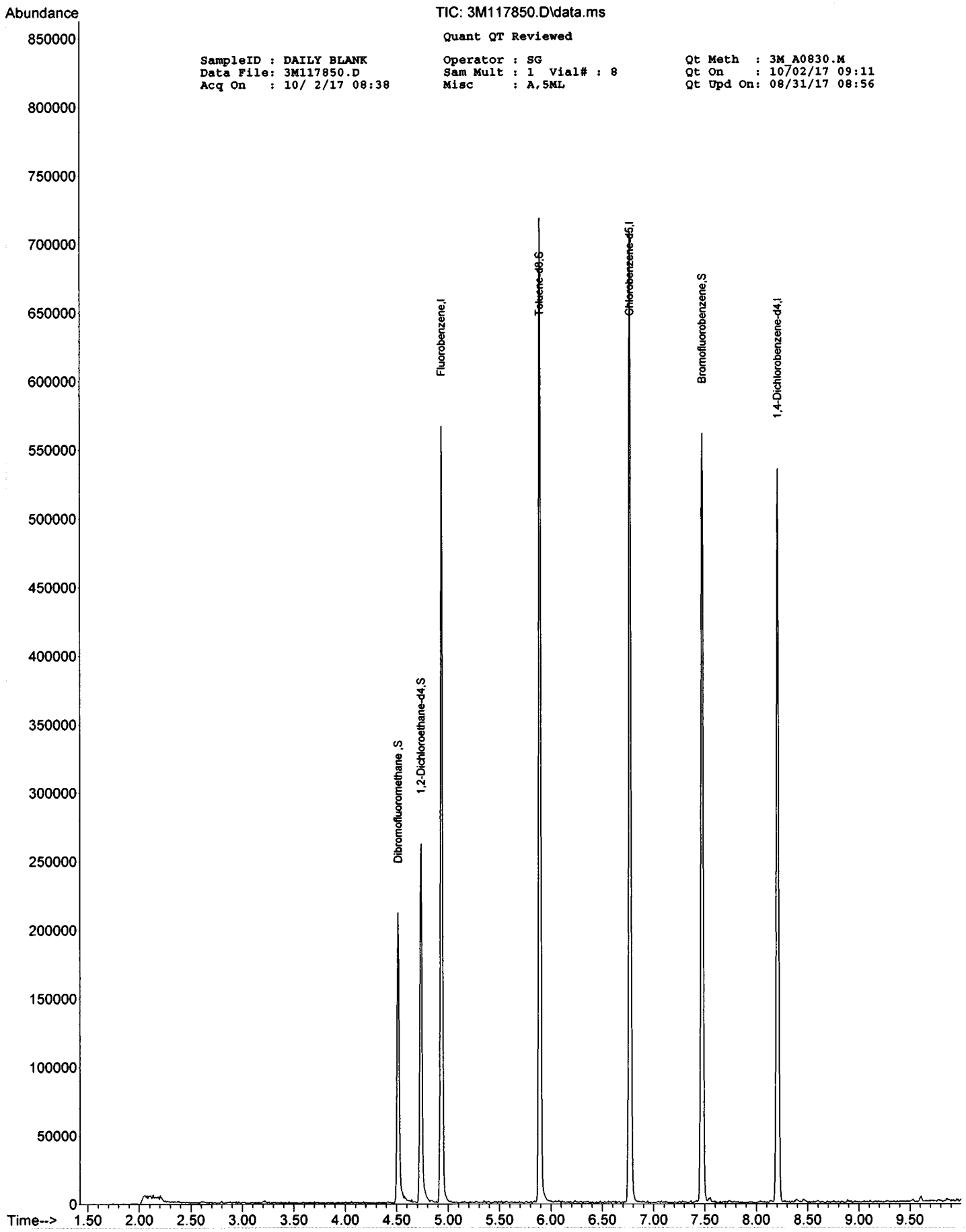
Abundance
TIC: 3M117850.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 3M117850.D
Acq On : 10/ 2/17 08:38
Operator : SG
Sam Mult : 1 Vial# : 8
Misc : A,5ML
Qt Meth : 3M_A0830.M
Qt On : 10/02/17 09:11
Qt Upd On: 08/31/17 08:56
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: EF-1V-264202(093017)
Client Id:
Data File: 3M117858.D
Analysis Date: 10/02/17 10:57
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
75-35-4	1,1-Dichloroethene	0.0010	U	108-90-7	Chlorobenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.00050	U	67-66-3	Chloroform	0.0010	U
106-46-7	1,4-Dichlorobenzene	0.0010	U	127-18-4	Tetrachloroethene	0.0010	U
78-93-3	2-Butanone	0.0010	U	79-01-6	Trichloroethene	0.0010	U
71-43-2	Benzene	0.00050	U	75-01-4	Vinyl Chloride	0.0010	U
56-23-5	Carbon Tetrachloride	0.0010	U				

Worksheet #: 439213 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

7092827 0053

SampleID : EF-1V-264202(093017 Operator : SG Qt Meth : 3M_A0830.M
Data File: 3M117858.D Sam Mult : 1 Vial# : 16 Qt On : 10/02/17 11:20
Acq On : 10/ 2/17 10:57 Misc : A,5ML!34 Qt Upd On: 08/31/17 08:56

Data Path : G:\GcMsData\2017\GCMS_3\Data\10-02-17\
Qt Path : G:\GcMsData\2017\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
4) Fluorobenzene	4.935	96	293549	30.00 ug/l	-0.02
52) Chlorobenzene-d5	6.767	117	269102	30.00 ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	8.209	152	114493	30.00 ug/l	-0.02
System Monitoring Compounds					
37) Dibromofluoromethane	4.514	111	91783	33.59 ug/l	-0.02
Spiked Amount 30.000			Recovery	= 111.97%	
39) 1,2-Dichloroethane-d4	4.737	67	70683	33.99 ug/l	-0.02
Spiked Amount 30.000			Recovery	= 113.30%	
66) Toluene-d8	5.890	98	312038	26.34 ug/l	-0.02
Spiked Amount 30.000			Recovery	= 87.80%	
76) Bromofluorobenzene	7.476	174	115431	27.72 ug/l	-0.02
Spiked Amount 30.000			Recovery	= 92.40%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

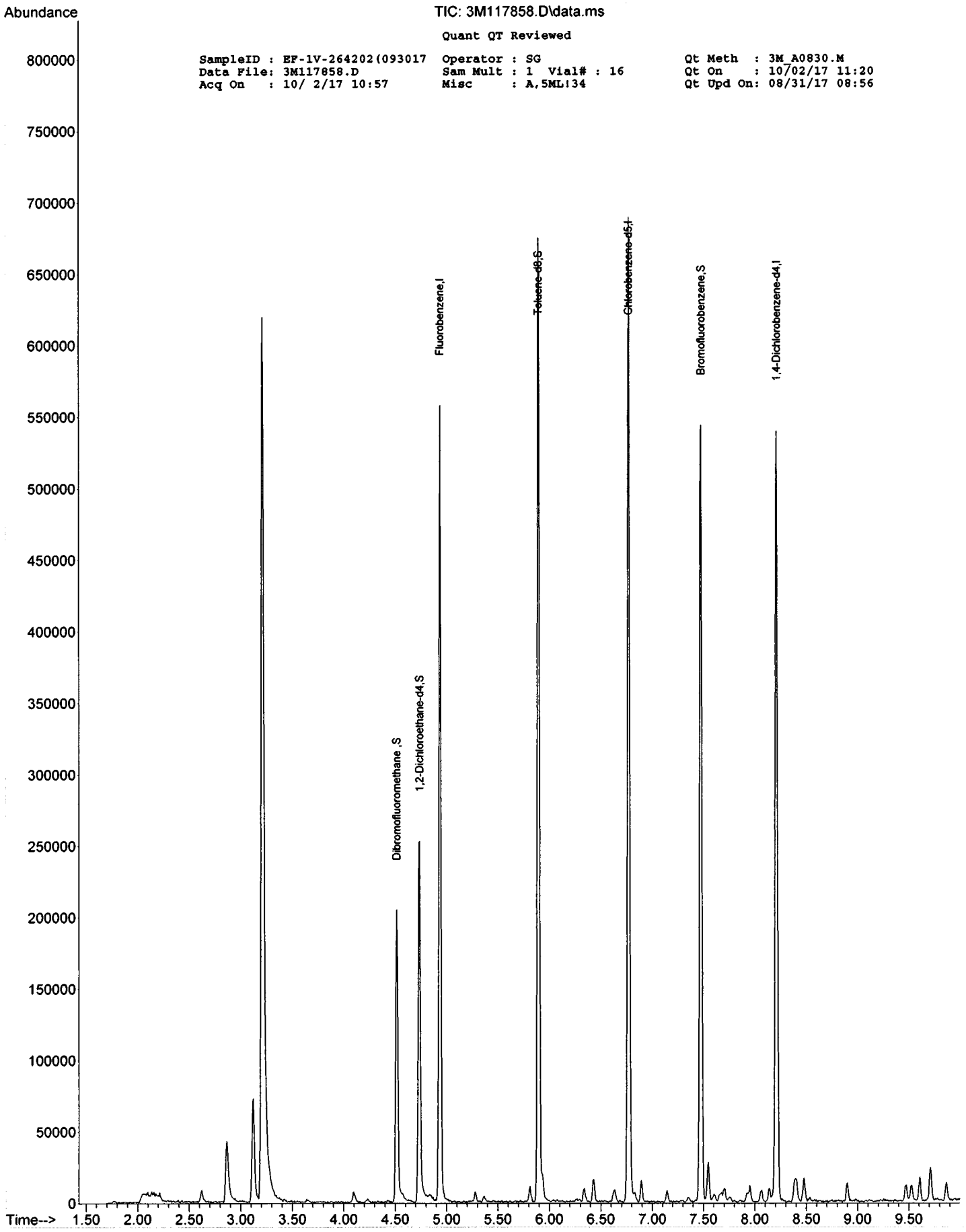
Abundance
TIC: 3M117858.D\data.ms
Quant QT Reviewed
SampleID : EF-1V-264202(093017
Data File: 3M117858.D
Acq On : 10/ 2/17 10:57
Operator : SG
Sam Mult : 1 Vial# : 16
Misc : A,5ML!34
Qt Meth : 3M_A0830.M
Qt On : 10/02/17 11:20
Qt Upd On: 08/31/17 08:56
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8260C

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
3M117850.D	DAILY BLANK	A	10/02/17 08:38	1		111	115	89	92		
3M117858.D	EF-1V-264202(093017)	A	10/02/17 10:57	1		112	113	88	92		
3M117852.D	AD00298-001(T)	A	10/02/17 09:16	1		111	112	90	93		
3M117855.D	MBS64316	A	10/02/17 10:06	1		109	115	90	92		
3M117856.D	AD00298-001(T:MS)	A	10/02/17 10:23	1		111	118	88	93		
3M117857.D	AD00298-001(T:MSD)	A	10/02/17 10:40	1		112	111	89	92		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260C

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	73-131
S2=1,2-Dichloroethane-d4	30	78-128
S3=Toluene-d8	30	79-111
S4=Bromofluorobenzene	30	82-112

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64316

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M117855.D	MBS64316	10/2/2017 10:06:00 AM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	26.5785	0	20	133	50	150
Dichlorodifluoromethane	1	31.65	0	20	158*	50	150
Chloromethane	1	26.0383	0	20	130	50	150
Bromomethane	1	19.4432	0	20	97	50	150
Vinyl Chloride	1	21.9915	0	20	110	50	150
Chloroethane	1	25.6002	0	20	128	50	150
Trichlorofluoromethane	1	26.6957	0	20	133	50	150
Ethyl ether	1	22.7419	0	20	114	50	150
Furan	1	27.3193	0	20	137	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	27.7815	0	20	139	50	150
Methylene Chloride	1	23.5352	0	20	118	70	130
Acrolein	1	48.5203	0	100	49*	50	150
Acrylonitrile	1	22.3408	0	20	112	50	150
Iodomethane	1	24.3437	0	20	122	50	150
Acetone	1	122.608	0	100	123	50	150
Carbon Disulfide	1	26.6617	0	20	133	50	150
t-Butyl Alcohol	1	79.2683	0	100	79	50	150
n-Hexane	1	28.4752	0	20	142*	70	130
Di-isopropyl-ether	1	24.3658	0	20	122	70	130
1,1-Dichloroethene	1	25.2091	0	20	126	70	130
Methyl Acetate	1	22.1348	0	20	111	50	150
Methyl-t-butyl ether	1	24.0075	0	20	120	70	130
1,1-Dichloroethane	1	24.5353	0	20	123	70	130
trans-1,2-Dichloroethene	1	24.3665	0	20	122	70	130
Ethyl-t-butyl ether	1	24.8354	0	20	124	70	130
cis-1,2-Dichloroethene	1	24.8089	0	20	124	70	130
Bromochloromethane	1	23.1528	0	20	116	70	130
2,2-Dichloropropane	1	29.585	0	20	148*	70	130
Ethyl acetate	1	22.899	0	20	114	50	130
1,4-Dioxane	1	1159.251	0	1000	116	50	150
1,1-Dichloropropene	1	27.4763	0	20	137*	70	130
Chloroform	1	23.7502	0	20	119	70	130
Cyclohexane	1	28.3176	0	20	142*	70	130
1,2-Dichloroethane	1	25.4495	0	20	127	70	130
2-Butanone	1	24.2526	0	20	121	50	150
1,1,1-Trichloroethane	1	26.0128	0	20	130	70	130
Carbon Tetrachloride	1	25.925	0	20	130	50	150
Vinyl Acetate	1	26.4368	0	20	132	50	150
Bromodichloromethane	1	22.9821	0	20	115	70	130
Methylcyclohexane	1	27.9987	0	20	140*	70	130
Dibromomethane	1	22.5756	0	20	113	70	130
1,2-Dichloropropane	1	24.3515	0	20	122	70	130
Trichloroethene	1	24.8547	0	20	124	70	130
Benzene	1	25.6476	0	20	128	70	130
tert-Amyl methyl ether	1	26.4672	0	20	132*	70	130
Iso-propylacetate	1	20.4978	0	20	102	70	130
Methyl methacrylate	1	19.4786	0	20	97	70	130
Dibromochloromethane	1	17.7329	0	20	89	70	130
2-Chloroethylvinylether	1	17.4371	0	20	87	70	130
cis-1,3-Dichloropropene	1	18.3138	0	20	92	70	130
trans-1,3-Dichloropropene	1	18.035	0	20	90	70	130
Ethyl methacrylate	1	19.417	0	20	97	70	130
1,1,2-Trichloroethane	1	17.4882	0	20	87	70	130
1,2-Dibromoethane	1	17.5703	0	20	88	70	130
1,3-Dichloropropane	1	19.5984	0	20	98	70	130
4-Methyl-2-Pentanone	1	18.87	0	20	94	50	150
2-Hexanone	1	19.5436	0	20	98	50	150
Tetrachloroethene	1	20.318	0	20	102	50	130
Toluene	1	19.986	0	20	100	70	130
1,1,1,2-Tetrachloroethane	1	20.0233	0	20	100	70	130
Chlorobenzene	1	18.6185	0	20	93	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64316

n-Butyl acrylate	1	11.9279	0	20	60*	70	130
n-Amyl acetate	1	17.7899	0	20	89	70	130
Bromoform	1	13.2229	0	20	66*	70	130
Ethylbenzene	1	20.4479	0	20	102	70	130
1,1,2,2-Tetrachloroethane	1	14.163	0	20	71	70	130
Styrene	1	18.0976	0	20	90	70	130
m&p-Xylenes	1	37.2107	0	40	93	70	130
o-Xylene	1	18.4604	0	20	92	70	130
trans-1,4-Dichloro-2-butene	1	18.5113	0	20	93	50	150
1,3-Dichlorobenzene	1	16.1821	0	20	81	70	130
1,4-Dichlorobenzene	1	15.7936	0	20	79	70	130
1,2-Dichlorobenzene	1	14.8427	0	20	74	70	130
Isopropylbenzene	1	17.8161	0	20	89	70	130
Cyclohexanone	1	157.8638	0	100	158*	50	150
Camphene	1	18.7145	0	20	94	70	130
1,2,3-Trichloropropane	1	16.5216	0	20	83	70	130
2-Chlorotoluene	1	19.8479	0	20	99	70	130
p-Ethyltoluene	1	15.8297	0	20	79	70	130
4-Chlorotoluene	1	18.4702	0	20	92	70	130
n-Propylbenzene	1	18.6961	0	20	93	70	130
Bromobenzene	1	18.8272	0	20	94	70	130
1,3,5-Trimethylbenzene	1	19.5672	0	20	98	70	130
Butyl methacrylate	1	17.8162	0	20	89	70	130
t-Butylbenzene	1	16.8719	0	20	84	70	130
1,2,4-Trimethylbenzene	1	17.9837	0	20	90	70	130
sec-Butylbenzene	1	17.5815	0	20	88	70	130
4-Isopropyltoluene	1	15.8823	0	20	79	70	130
n-Butylbenzene	1	18.4638	0	20	92	70	130
p-Diethylbenzene	1	17.2749	0	20	86	70	130
1,2,4,5-Tetramethylbenzene	1	17.1464	0	20	86	70	130
1,2-Dibromo-3-Chloropropane	1	8.5498	0	20	43*	50	150
Camphor	1	131.6018	0	200	66	50	150
Hexachlorobutadiene	1	10.9505	0	20	55	50	150
1,2,4-Trichlorobenzene	1	13.948	0	20	70	70	130
1,2,3-Trichlorobenzene	1	12.5877	0	20	63*	70	130
Naphthalene	1	13.1773	0	20	66	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64316

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M117856.D	AD00298-001(T:MS)	10/2/2017 10:23:00 AM
Non Spike(If applicable):	3M117852.D	AD00298-001(T)	10/2/2017 9:16:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	25.7503	0	20	129	50	150
Dichlorodifluoromethane	1	20.7432	0	20	104	50	150
Chloromethane	1	23.5767	0	20	118	50	150
Bromomethane	1	16.1622	0	20	81	50	150
Vinyl Chloride	1	17.2151	0	20	86	50	150
Chloroethane	1	23.2441	0	20	116	50	150
Trichlorofluoromethane	1	21.4193	0	20	107	50	150
Ethyl ether	1	20.1451	0	20	101	50	150
Furan	1	23.6126	0	20	118	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.1374	0	20	111	50	150
Methylene Chloride	1	69.6851	0	20	348*	70	130
Acrolein	1	45.8559	0	100	46*	50	150
Acrylonitrile	1	20.6433	0	20	103	50	150
Iodomethane	1	20.5077	0	20	103	50	150
Acetone	1	158.9283	0	100	159*	50	150
Carbon Disulfide	1	21.7324	0	20	109	50	150
t-Butyl Alcohol	1	76.0062	0	100	76	50	150
n-Hexane	1	23.5922	0	20	118	70	130
Di-isopropyl-ether	1	20.7803	0	20	104	70	130
1,1-Dichloroethene	1	19.5318	0	20	98	70	130
Methyl Acetate	1	40.3987	0	20	202*	50	150
Methyl-t-butyl ether	1	20.5004	0	20	103	70	130
1,1-Dichloroethane	1	21.334	0	20	107	70	130
trans-1,2-Dichloroethene	1	21.6352	0	20	108	70	130
Ethyl-t-butyl ether	1	21.3198	0	20	107	70	130
cis-1,2-Dichloroethene	1	22.0185	0	20	110	70	130
Bromochloromethane	1	20.1735	0	20	101	70	130
2,2-Dichloropropane	1	25.9992	0	20	130	70	130
Ethyl acetate	1	26.191	0	20	131*	50	130
1,4-Dioxane	1	1042.757	0	1000	104	50	150
1,1-Dichloropropene	1	23.6903	0	20	118	70	130
Chloroform	1	20.6277	0	20	103	70	130
Cyclohexane	1	23.4473	0	20	117	70	130
1,2-Dichloroethane	1	21.5976	0	20	108	70	130
2-Butanone	1	14.2542	0	20	71	50	150
1,1,1-Trichloroethane	1	21.555	0	20	108	70	130
Carbon Tetrachloride	1	21.8262	0	20	109	50	150
Vinyl Acetate	1	23.8046	0	20	119	50	150
Bromodichloromethane	1	19.9474	0	20	100	70	130
Methylcyclohexane	1	24.072	0	20	120	70	130
Dibromomethane	1	19.2599	0	20	96	70	130
1,2-Dichloropropane	1	20.591	0	20	103	70	130
Trichloroethene	1	21.6731	0	20	108	70	130
Benzene	1	22.4149	0	20	112	70	130
tert-Amyl methyl ether	1	22.8645	0	20	114	70	130
Iso-propylacetate	1	16.6278	0	20	83	70	130
Methyl methacrylate	1	16.7031	0	20	84	70	130
Dibromochloromethane	1	15.4876	0	20	77	70	130
2-Chloroethylvinylether	1	15.1528	0	20	76	70	130
cis-1,3-Dichloropropene	1	15.2533	0	20	76	70	130
trans-1,3-Dichloropropene	1	15.2512	0	20	76	70	130
Ethyl methacrylate	1	16.454	0	20	82	70	130
1,1,2-Trichloroethane	1	15.261	0	20	76	70	130
1,2-Dibromoethane	1	15.3008	0	20	77	70	130
1,3-Dichloropropane	1	16.6773	0	20	83	70	130
4-Methyl-2-Pentanone	1	16.8565	0	20	84	50	150
2-Hexanone	1	16.1262	0	20	81	50	150
Tetrachloroethene	1	16.9423	0	20	85	50	130
Toluene	1	16.927	0	20	85	70	130
1,1,1,2-Tetrachloroethane	1	16.7706	0	20	84	70	130
Chlorobenzene	1	15.8841	0	20	79	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64316

n-Butyl acrylate	1	10.1536	0	20	51*	70	130
n-Amyl acetate	1	15.5528	0	20	78	70	130
Bromoform	1	11.5419	0	20	58*	70	130
Ethylbenzene	1	16.1844	0	20	81	70	130
1,1,2,2-Tetrachloroethane	1	12.5463	0	20	63*	70	130
Styrene	1	14.9223	0	20	75	70	130
m&p-Xylenes	1	30.8253	0	40	77	70	130
o-Xylene	1	15.7245	0	20	79	70	130
trans-1,4-Dichloro-2-butene	1	16.1536	0	20	81	50	150
1,3-Dichlorobenzene	1	13.533	0	20	68*	70	130
1,4-Dichlorobenzene	1	13.4358	0	20	67*	70	130
1,2-Dichlorobenzene	1	13.2098	0	20	66*	70	130
Isopropylbenzene	1	15.4041	0	20	77	70	130
Cyclohexanone	1	127.7919	0	100	128	50	150
Camphene	1	16.2738	0	20	81	70	130
1,2,3-Trichloropropane	1	14.4698	0	20	72	70	130
2-Chlorotoluene	1	16.5302	0	20	83	70	130
p-Ethyltoluene	1	14.6902	0	20	73	70	130
4-Chlorotoluene	1	16.3309	0	20	82	70	130
n-Propylbenzene	1	15.7837	0	20	79	70	130
Bromobenzene	1	14.2328	0	20	71	70	130
1,3,5-Trimethylbenzene	1	17.7035	0	20	89	70	130
Butyl methacrylate	1	15.8353	0	20	79	70	130
t-Butylbenzene	1	14.5616	0	20	73	70	130
1,2,4-Trimethylbenzene	1	15.3996	0	20	77	70	130
sec-Butylbenzene	1	15.081	0	20	75	70	130
4-Isopropyltoluene	1	13.8305	0	20	69*	70	130
n-Butylbenzene	1	15.839	0	20	79	70	130
p-Diethylbenzene	1	15.0486	0	20	75	70	130
1,2,4,5-Tetramethylbenzene	1	14.4518	0	20	72	70	130
1,2-Dibromo-3-Chloropropane	1	8.0623	0	20	40*	50	150
Camphor	1	124.2357	0	200	62	50	150
Hexachlorobutadiene	1	10.1634	0	20	51	50	150
1,2,4-Trichlorobenzene	1	11.4416	0	20	57*	70	130
1,2,3-Trichlorobenzene	1	11.2716	0	20	56*	70	130
Naphthalene	1	11.942	0	20	60	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64316

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M117857.D	AD00298-001(T:MSD)	10/2/2017 10:40:00 AM
Non Spike(If applicable):	3M117852.D	AD00298-001(T)	10/2/2017 9:16:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	26.4471	0	20	132	50	150
Dichlorodifluoromethane	1	22.9858	0	20	115	50	150
Chloromethane	1	21.769	0	20	109	50	150
Bromomethane	1	17.6941	0	20	88	50	150
Vinyl Chloride	1	17.8576	0	20	89	50	150
Chloroethane	1	21.984	0	20	110	50	150
Trichlorofluoromethane	1	23.2215	0	20	116	50	150
Ethyl ether	1	21.5629	0	20	108	50	150
Furan	1	24.5687	0	20	123	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	23.3772	0	20	117	50	150
Methylene Chloride	1	76.3627	0	20	382*	70	130
Acrolein	1	51.0922	0	100	51	50	150
Acrylonitrile	1	20.8867	0	20	104	50	150
Iodomethane	1	22.3012	0	20	112	50	150
Acetone	1	162.8284	0	100	163*	50	150
Carbon Disulfide	1	23.4113	0	20	117	50	150
t-Butyl Alcohol	1	82.7668	0	100	83	50	150
n-Hexane	1	24.6315	0	20	123	70	130
Di-isopropyl-ether	1	22.3161	0	20	112	70	130
1,1-Dichloroethene	1	20.2802	0	20	101	70	130
Methyl Acetate	1	43.7527	0	20	219*	50	150
Methyl-t-butyl ether	1	21.5158	0	20	108	70	130
1,1-Dichloroethane	1	21.8663	0	20	109	70	130
trans-1,2-Dichloroethene	1	22.5309	0	20	113	70	130
Ethyl-t-butyl ether	1	22.3311	0	20	112	70	130
cis-1,2-Dichloroethene	1	23.5239	0	20	118	70	130
Bromochloromethane	1	20.6859	0	20	103	70	130
2,2-Dichloropropane	1	27.118	0	20	136*	70	130
Ethyl acetate	1	28.2578	0	20	141*	50	130
1,4-Dioxane	1	1083.956	0	1000	108	50	150
1,1-Dichloropropene	1	25.0456	0	20	125	70	130
Chloroform	1	22.018	0	20	110	70	130
Cyclohexane	1	24.9968	0	20	125	70	130
1,2-Dichloroethane	1	23.2411	0	20	116	70	130
2-Butanone	1	13.5683	0	20	68	50	150
1,1,1-Trichloroethane	1	22.8	0	20	114	70	130
Carbon Tetrachloride	1	23.7839	0	20	119	50	150
Vinyl Acetate	1	24.4428	0	20	122	50	150
Bromodichloromethane	1	21.4372	0	20	107	70	130
Methylcyclohexane	1	25.4819	0	20	127	70	130
Dibromomethane	1	20.068	0	20	100	70	130
1,2-Dichloropropane	1	22.0094	0	20	110	70	130
Trichloroethene	1	22.3153	0	20	112	70	130
Benzene	1	23.6188	0	20	118	70	130
tert-Amyl methyl ether	1	24.2649	0	20	121	70	130
Iso-propylacetate	1	17.8647	0	20	89	70	130
Methyl methacrylate	1	18.3321	0	20	92	70	130
Dibromochloromethane	1	16.0823	0	20	80	70	130
2-Chloroethylvinylether	1	14.6868	0	20	73	70	130
cis-1,3-Dichloropropene	1	15.9388	0	20	80	70	130
trans-1,3-Dichloropropene	1	16.4992	0	20	82	70	130
Ethyl methacrylate	1	18.1806	0	20	91	70	130
1,1,2-Trichloroethane	1	15.8892	0	20	79	70	130
1,2-Dibromoethane	1	15.8912	0	20	79	70	130
1,3-Dichloropropane	1	18.0447	0	20	90	70	130
4-Methyl-2-Pentanone	1	18.3201	0	20	92	50	150
2-Hexanone	1	16.8195	0	20	84	50	150
Tetrachloroethene	1	18.6877	0	20	93	50	130
Toluene	1	17.911	0	20	90	70	130
1,1,1,2-Tetrachloroethane	1	17.4204	0	20	87	70	130
Chlorobenzene	1	16.4979	0	20	82	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64316

n-Butyl acrylate	1	11.0714	0	20	55*	70	130
n-Amyl acetate	1	16.5036	0	20	83	70	130
Bromoform	1	12.066	0	20	60*	70	130
Ethylbenzene	1	16.0583	0	20	80	70	130
1,1,2,2-Tetrachloroethane	1	13.2803	0	20	66*	70	130
Styrene	1	16.2237	0	20	81	70	130
m&p-Xylenes	1	33.3128	0	40	83	70	130
o-Xylene	1	16.1477	0	20	81	70	130
trans-1,4-Dichloro-2-butene	1	16.9728	0	20	85	50	150
1,3-Dichlorobenzene	1	14.4343	0	20	72	70	130
1,4-Dichlorobenzene	1	14.3289	0	20	72	70	130
1,2-Dichlorobenzene	1	14.365	0	20	72	70	130
Isopropylbenzene	1	15.9204	0	20	80	70	130
Cyclohexanone	1	102.9977	0	100	103	50	150
Camphene	1	18.9428	0	20	95	70	130
1,2,3-Trichloropropane	1	15.1801	0	20	76	70	130
2-Chlorotoluene	1	17.9384	0	20	90	70	130
p-Ethyltoluene	1	14.9363	0	20	75	70	130
4-Chlorotoluene	1	16.6947	0	20	83	70	130
n-Propylbenzene	1	16.5972	0	20	83	70	130
Bromobenzene	1	16.8712	0	20	84	70	130
1,3,5-Trimethylbenzene	1	19.0686	0	20	95	70	130
Butyl methacrylate	1	16.5494	0	20	83	70	130
t-Butylbenzene	1	15.4145	0	20	77	70	130
1,2,4-Trimethylbenzene	1	15.9981	0	20	80	70	130
sec-Butylbenzene	1	15.517	0	20	78	70	130
4-Isopropyltoluene	1	14.7588	0	20	74	70	130
n-Butylbenzene	1	16.6225	0	20	83	70	130
p-Diethylbenzene	1	16.2374	0	20	81	70	130
1,2,4,5-Tetramethylbenzene	1	15.8952	0	20	79	70	130
1,2-Dibromo-3-Chloropropane	1	9.0425	0	20	45*	50	150
Camphor	1	126.2721	0	200	63	50	150
Hexachlorobutadiene	1	10.8944	0	20	54	50	150
1,2,4-Trichlorobenzene	1	12.6757	0	20	63*	70	130
1,2,3-Trichlorobenzene	1	12.222	0	20	61*	70	130
Naphthalene	1	12.7867	0	20	64	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: MBS64316

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M117857.D	AD00298-001(T:MSD)	10/2/2017 10:40:00 AM
Duplicate(If applicable):	3M117856.D	AD00298-001(T:MS)	10/2/2017 10:23:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	26.4471	25.7503	2.7	20
Dichlorodifluoromethane	1	22.9858	20.7432	10	20
Chloromethane	1	21.769	23.5767	8	20
Bromomethane	1	17.6941	16.1622	9	20
Vinyl Chloride	1	17.8576	17.2151	3.7	40
Chloroethane	1	21.984	23.2441	5.6	20
Trichlorofluoromethane	1	23.2215	21.4193	8.1	20
Ethyl ether	1	21.5629	20.1451	6.8	20
Furan	1	24.5687	23.6126	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	1	23.3772	22.1374	5.4	20
Methylene Chloride	1	76.3627	69.6851	9.1	20
Acrolein	1	51.0922	45.8559	11	20
Acrylonitrile	1	20.8867	20.6433	1.2	20
Iodomethane	1	22.3012	20.5077	8.4	20
Acetone	1	162.8284	158.9283	2.4	20
Carbon Disulfide	1	23.4113	21.7324	7.4	20
t-Butyl Alcohol	1	82.7668	76.0062	8.5	20
n-Hexane	1	24.6315	23.5922	4.3	20
Di-isopropyl-ether	1	22.3161	20.7803	7.1	20
1,1-Dichloroethene	1	20.2802	19.5318	3.8	40
Methyl Acetate	1	43.7527	40.3987	8	20
Methyl-t-butyl ether	1	21.5158	20.5004	4.8	20
1,1-Dichloroethane	1	21.8663	21.334	2.5	40
trans-1,2-Dichloroethene	1	22.5309	21.6352	4.1	20
Ethyl-t-butyl ether	1	22.3311	21.3198	4.6	20
cis-1,2-Dichloroethene	1	23.5239	22.0185	6.6	20
Bromochloromethane	1	20.6859	20.1735	2.5	20
2,2-Dichloropropane	1	27.118	25.9992	4.2	20
Ethyl acetate	1	28.2578	26.191	7.6	20
1,4-Dioxane	1	1083.956	1042.757	3.9	20
1,1-Dichloropropene	1	25.0456	23.6903	5.6	20
Chloroform	1	22.018	20.6277	6.5	40
Cyclohexane	1	24.9968	23.4473	6.4	20
1,2-Dichloroethane	1	23.2411	21.5976	7.3	40
2-Butanone	1	13.5683	14.2542	4.9	40
1,1,1-Trichloroethane	1	22.8	21.555	5.6	20
Carbon Tetrachloride	1	23.7839	21.8262	8.6	40
Vinyl Acetate	1	24.4428	23.8046	2.6	20
Bromodichloromethane	1	21.4372	19.9474	7.2	20
Methylcyclohexane	1	25.4819	24.072	5.7	20
Dibromomethane	1	20.068	19.2599	4.1	20
1,2-Dichloropropane	1	22.0094	20.591	6.7	20
Trichloroethene	1	22.3153	21.6731	2.9	40
Benzene	1	23.6188	22.4149	5.2	40
tert-Amyl methyl ether	1	24.2649	22.8645	5.9	20
Iso-propylacetate	1	17.8647	16.6278	7.2	20
Methyl methacrylate	1	18.3321	16.7031	9.3	20
Dibromochloromethane	1	16.0823	15.4876	3.8	20
2-Chloroethylvinylether	1	14.6868	15.1528	3.1	20
cis-1,3-Dichloropropene	1	15.9388	15.2533	4.4	20
trans-1,3-Dichloropropene	1	16.4992	15.2512	7.9	20
Ethyl methacrylate	1	18.1806	16.454	10	20
1,1,2-Trichloroethane	1	15.8892	15.261	4	20
1,2-Dibromoethane	1	15.8912	15.3008	3.8	20
1,3-Dichloropropane	1	18.0447	16.6773	7.9	20
4-Methyl-2-Pentanone	1	18.3201	16.8565	8.3	20
2-Hexanone	1	16.8195	16.1262	4.2	20
Tetrachloroethene	1	18.6877	16.9423	9.8	40
Toluene	1	17.911	16.927	5.6	40
1,1,1,2-Tetrachloroethane	1	17.4204	16.7706	3.8	20
Chlorobenzene	1	16.4979	15.8841	3.8	40
n-Butyl acrylate	1	11.0714	10.1536	8.6	20
n-Amyl acetate	1	16.5036	15.5528	5.9	20

Form3
RPD Data Laboratory Limits
QC Batch: MBS64316

Bromoform	1	12.066	11.5419	4.4	20
Ethylbenzene	1	16.0583	16.1844	0.78	20
1,1,2,2-Tetrachloroethane	1	13.2803	12.5463	5.7	20
Styrene	1	16.2237	14.9223	8.4	20
m&p-Xylenes	1	33.3128	30.8253	7.8	20
o-Xylene	1	16.1477	15.7245	2.7	20
trans-1,4-Dichloro-2-butene	1	16.9728	16.1536	4.9	20
1,3-Dichlorobenzene	1	14.4343	13.533	6.4	20
1,4-Dichlorobenzene	1	14.3289	13.4358	6.4	40
1,2-Dichlorobenzene	1	14.365	13.2098	8.4	40
Isopropylbenzene	1	15.9204	15.4041	3.3	20
Cyclohexanone	1	102.9977	127.7919	21 *	20
Camphene	1	18.9428	16.2738	15	20
1,2,3-Trichloropropane	1	15.1801	14.4698	4.8	20
2-Chlorotoluene	1	17.9384	16.5302	8.2	20
p-Ethyltoluene	1	14.9363	14.6902	1.7	20
4-Chlorotoluene	1	16.6947	16.3309	2.2	20
n-Propylbenzene	1	16.5972	15.7837	5	40
Bromobenzene	1	16.8712	14.2328	17	20
1,3,5-Trimethylbenzene	1	19.0686	17.7035	7.4	20
Butyl methacrylate	1	16.5494	15.8353	4.4	20
t-Butylbenzene	1	15.4145	14.5616	5.7	20
1,2,4-Trimethylbenzene	1	15.9981	15.3996	3.8	20
sec-Butylbenzene	1	15.517	15.081	2.8	40
4-Isopropyltoluene	1	14.7588	13.8305	6.5	20
n-Butylbenzene	1	16.6225	15.839	4.8	20
p-Diethylbenzene	1	16.2374	15.0486	7.6	20
1,2,4,5-Tetramethylbenzene	1	15.8952	14.4518	9.5	20
1,2-Dibromo-3-Chloropropane	1	9.0425	8.0623	11	20
Camphor	1	126.2721	124.2357	1.6	20
Hexachlorobutadiene	1	10.8944	10.1634	6.9	20
1,2,4-Trichlorobenzene	1	12.6757	11.4416	10	20
1,2,3-Trichlorobenzene	1	12.222	11.2716	8.1	20
Naphthalene	1	12.7867	11.942	6.8	20

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 3M117850.D
Matrix: Aqueous

Blank Analysis Date: 10/02/17 08:38
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260C

Sample Number	Data File	Analysis Date
AD00298-001(T)	3M117852.D	10/02/17 09:16
EF-1V-264202(093	3M117858.D	10/02/17 10:57
AD00298-001(T:M	3M117857.D	10/02/17 10:40
AD00298-001(T:M	3M117856.D	10/02/17 10:23
MBS64316	3M117855.D	10/02/17 10:06

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 3

Data File: 3M116065.D
Analysis Date: 08/30/17 07:56
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.926 to 5.005 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	20.5	13736	PASS
75	95	30	60	55.9	37424	PASS
95	95	100	100	100.0	66989	PASS
96	95	5	9	7.6	5102	PASS
173	174	0.00	2	0.7	311	PASS
174	95	50	100	71.0	47548	PASS
175	174	5	9	7.4	3518	PASS
176	174	95	101	95.3	45310	PASS
177	176	5	9	7.4	3351	PASS

Data File	Sample Number	Analysis Date:
3M116066.D	BLK	08/30/17 08:06
3M116067.D	CAL @ 0.5 PPB	08/30/17 08:23
3M116068.D	1 PPB	08/30/17 08:40
3M116069.D	CAL @ 5 PPB	08/30/17 08:57
3M116070.D	CAL @ 10 PPB	08/30/17 09:13
3M116071.D	CAL @ 20 PPB	08/30/17 09:30
3M116072.D	CAL @ 500 PPB	08/30/17 09:46
3M116074.D	CAL @ 250 PPB	08/30/17 10:20
3M116076.D	CAL @ 100 PPB	08/30/17 10:54
3M116078.D	CAL @ 50 PPB	08/30/17 11:27
3M116091.D	CAL @ 1 PPB	08/30/17 14:54
3M116092.D	ICV	08/30/17 15:16

Data Path : G:\GcMsData\2017\GCMS_3\Data\08-30-17\
Data File : 3M116065.D
Acq On : 30 Aug 2017 7:56
Operator : SG
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2017\GCMS_3\MethodQt\3M_A0731.M
Title : @GCMS_3,ug,624,8260
Last Update : Mon Jul 31 14:52:13 2017

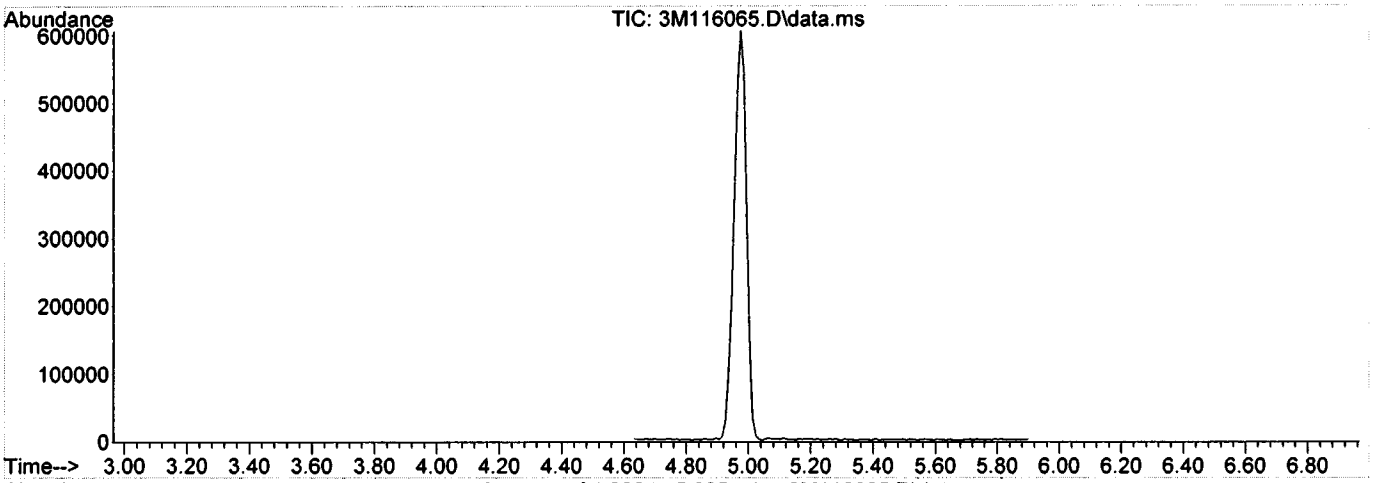

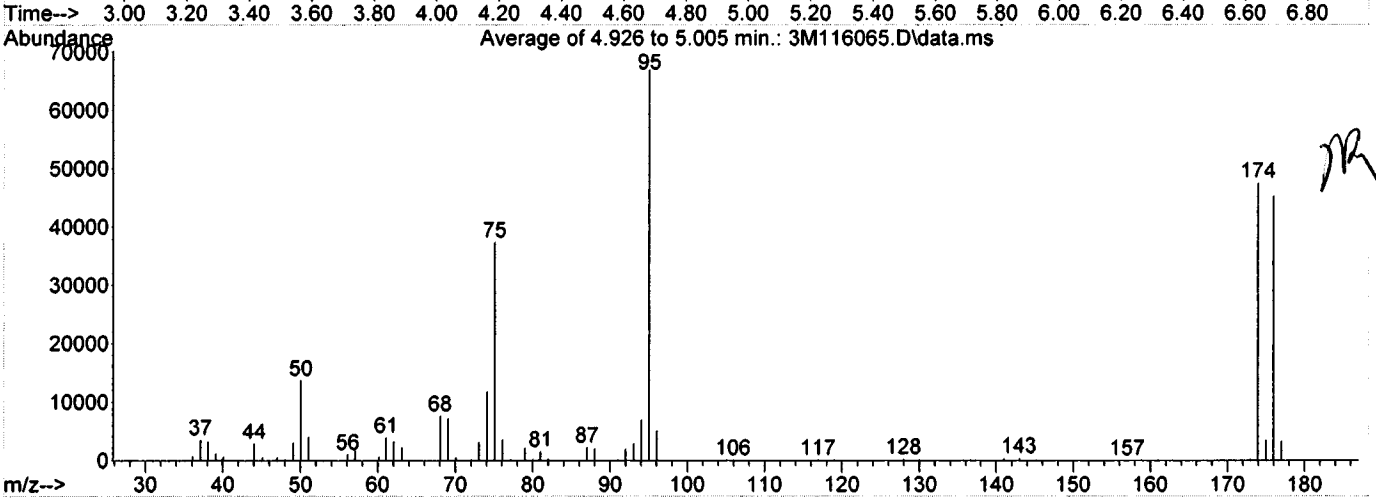

Spectrum Information: Average of 4.926 to 5.005 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.5	13736	PASS
75	95	30	60	55.9	37424	PASS
95	95	100	100	100.0	66989	PASS
96	95	5	9	7.6	5102	PASS
173	174	0.00	2	0.7	311	PASS
174	95	50	100	71.0	47548	PASS
175	174	5	9	7.4	3518	PASS
176	174	95	101	95.3	45310	PASS
177	176	5	9	7.4	3351	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 3

Data File: 3M117845.D
Analysis Date: 10/02/17 07:08
Method: EPA 8260C

Tune Scan/Time Range: Average of 5.039 to 5.049 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	20.9	44880	PASS
75	95	30	60	55.4	118644	PASS
95	95	100	100	100.0	214304	PASS
96	95	5	9	6.3	13531	PASS
173	174	0.00	2	0.4	572	PASS
174	95	50	100	65.0	139196	PASS
175	174	5	9	7.7	10739	PASS
176	174	95	101	98.7	137380	PASS
177	176	5	9	7.3	10068	PASS

Data File	Sample Number	Analysis Date:
3M117846.D	20 PPB	10/02/17 07:27
3M117847.D	CAL @ 20 PPB	10/02/17 07:44
3M117848.D	BLK	10/02/17 08:04
3M117849.D	DAILY BLANK	10/02/17 08:21
3M117850.D	DAILY BLANK	10/02/17 08:38
3M117851.D	AD00297-001(T)	10/02/17 08:59
3M117852.D	AD00298-001(T)	10/02/17 09:16
3M117853.D	AD00319-002(T)	10/02/17 09:32
3M117854.D	MBS64315	10/02/17 09:49
3M117855.D	MBS64316	10/02/17 10:06
3M117856.D	AD00298-001(T:M	10/02/17 10:23
3M117857.D	AD00298-001(T:M	10/02/17 10:40
3M117858.D	EF-1V-264202(093	10/02/17 10:57
3M117859.D	EF-3V-10896(0928	10/02/17 11:13
3M117860.D	EF-3V-10896(0929	10/02/17 11:30
3M117861.D	AD00308-017	10/02/17 11:50
3M117862.D	AD00301-015	10/02/17 12:07
3M117863.D	AD00301-016	10/02/17 12:23
3M117864.D	00295-002	10/02/17 12:40
3M117865.D	AD00308-015	10/02/17 12:57
3M117866.D	AD00311-008	10/02/17 13:14
3M117867.D	AD00311-009	10/02/17 13:30
3M117868.D	AD00311-001	10/02/17 13:47
3M117869.D	AD00311-002	10/02/17 14:04
3M117870.D	AD00311-003	10/02/17 14:21
3M117871.D	AD00311-004	10/02/17 14:37
3M117872.D	AD00311-005	10/02/17 14:54
3M117873.D	AD00311-007	10/02/17 15:11
3M117874.D	AD00311-006	10/02/17 15:28
3M117875.D	AD00308-005	10/02/17 15:44
3M117876.D	AD00308-009	10/02/17 16:01
3M117877.D	AD00277-001	10/02/17 16:18
3M117878.D	BLK	10/02/17 16:34
3M117879.D	AD00311-002	10/02/17 16:51
3M117880.D	AD00311-004	10/02/17 17:08
3M117881.D	AD00311-005	10/02/17 17:25
3M117882.D	AD00311-006	10/02/17 17:41
3M117883.D	AD00311-003	10/02/17 17:58
3M117884.D	AD00311-007	10/02/17 18:12

Data Path : G:\GcMsData\2017\GCMS_3\Data\10-02-17\
Data File : 3M117845.D
Acq On : 2 Oct 2017 7:08
Operator : SG
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2017\GCMS_3\MethodQt\3M_A0830.M
Title : @GCMS_3,ug,624,8260
Last Update : Wed Aug 30 15:24:38 2017

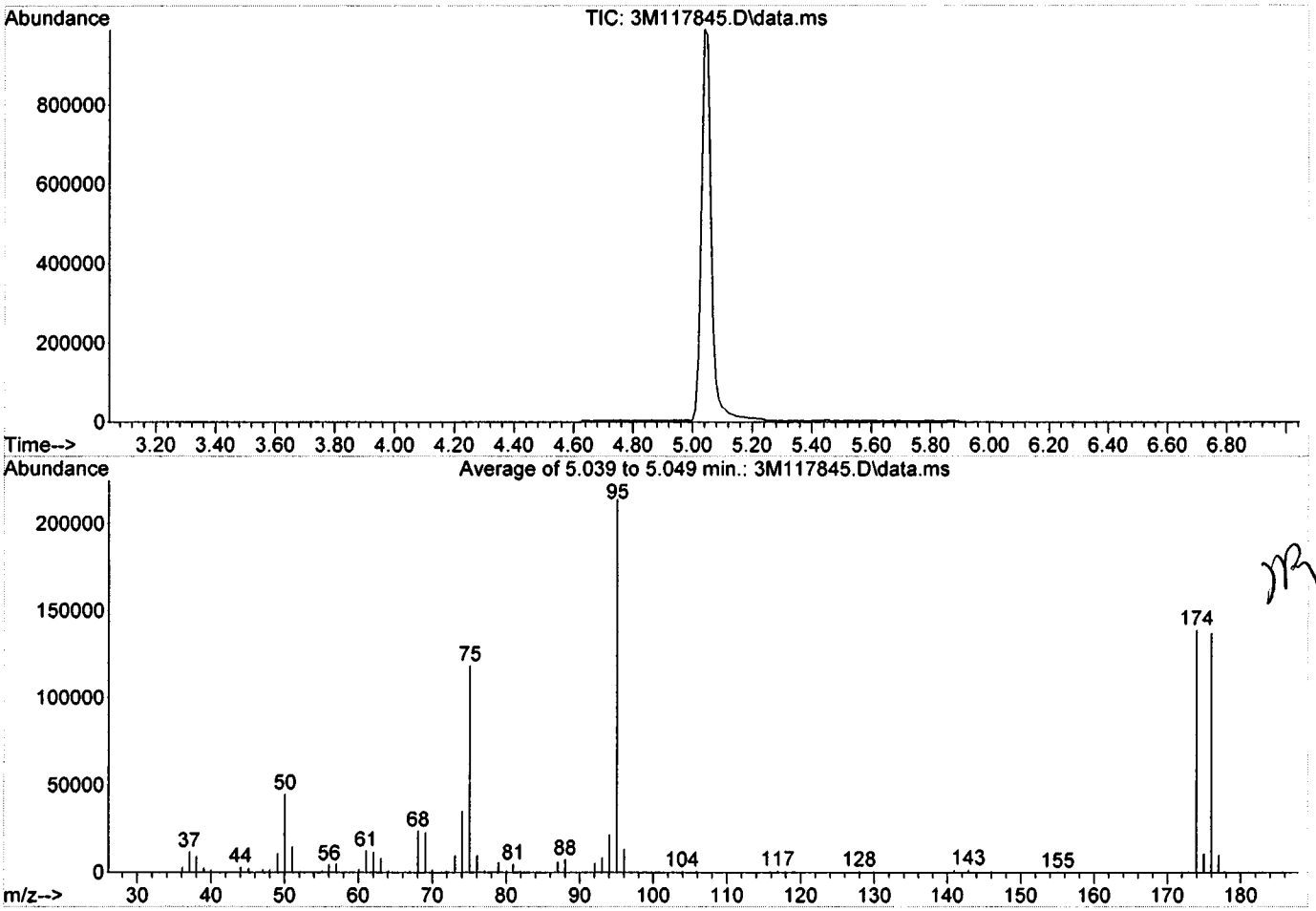

Spectrum Information: Average of 5.039 to 5.049 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.9	44880	PASS
75	95	30	60	55.4	118644	PASS
95	95	100	100	100.0	214304	PASS
96	95	5	9	6.3	13531	PASS
173	174	0.00	2	0.4	572	PASS
174	95	50	100	65.0	139196	PASS
175	174	5	9	7.7	10739	PASS
176	174	95	101	98.7	137380	PASS
177	176	5	9	7.3	10068	PASS

7092827 0059

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3M116071.D	CAL @ 20 PPB	08/30/17 09:30	2	3M116069.D	CAL @ 5 PPB	08/30/17 08:57
3	3M116070.D	CAL @ 10 PPB	08/30/17 09:13	4	3M116078.D	CAL @ 50 PPB	08/30/17 11:27
5	3M116076.D	CAL @ 100 PPB	08/30/17 10:54	6	3M116074.D	CAL @ 250 PPB	08/30/17 10:20
7	3M116072.D	CAL @ 500 PPB	08/30/17 09:46	8	3M116091.D	CAL @ 1 PPB	08/30/17 14:54
9	3M116067.D	CAL @ 0.5 PPB	08/30/17 08:23				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.3531	0.2097	0.3334	0.3556	0.3793	0.3822	----	0.2780	----	0.327	1.58	1.00	1.00	19	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Dichlorodifluorometha	1	0	Qua	0.1005	0.0863	0.0941	0.0984	0.1068	0.1083	0.1106	0.0234	----	0.0911	1.58	1.00	1.00	31	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloromethane	1	0	Avg	0.1631	0.1450	0.1767	0.1610	0.1644	0.1668	0.1733	0.1299	----	0.160	1.73	1.00	1.00	9.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromomethane	1	0	Avg	0.1020	0.0959	0.0956	0.0842	0.0752	----	----	0.1077	----	0.0935	2.12	0.994	0.999	13	0.10 a	20.00	5.00	10.00	50.00	100.0			1.00	
Vinyl Chloride	1	0	Avg	0.1921	0.1666	0.1887	0.1801	0.1844	0.1850	0.1863	0.1466	----	0.179	1.83	1.00	1.00	8.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroethane	1	0	Avg	0.1143	0.0776	0.1133	0.1124	0.1114	0.1005	----	0.0891	----	0.103	2.20	0.998	1.00	14	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Trichlorofluoromethan	1	0	Avg	0.3422	0.3262	0.3476	0.3472	0.3487	0.3312	0.3099	0.2565	----	0.326	2.41	0.999	1.00	9.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl ether	1	0	Avg	0.2148	0.1568	0.1993	0.2189	0.2187	0.2191	0.2017	0.2211	----	0.206	2.63	0.998	1.00	11	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Furan	1	0	Avg	0.3791	0.3139	0.3599	0.3941	0.3902	0.3850	0.3490	0.3530	----	0.366	2.68	0.997	1.00	7.4	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1330	0.1241	0.1360	0.1429	0.1502	0.1416	0.1342	0.1288	----	0.136	2.82	0.999	1.00	6.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methylene Chloride	1	0	Avg	0.2538	0.2111	0.2462	0.2577	0.2635	0.2646	0.2456	0.2964	----	0.255	3.23	0.999	1.00	9.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acrolein	1	0	Avg	0.0391	0.0322	0.0369	0.0418	0.0438	0.0459	0.0413	0.0318	----	0.0392	2.75	0.997	1.00	13		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Acrylonitrile	1	0	Avg	0.0781	0.0653	0.0683	0.0855	0.0873	0.0911	0.0782	0.0670	----	0.0776	3.45	0.994	0.999	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iodomethane	1	0	Avg	0.2232	0.1781	0.2082	0.2225	0.2360	0.2379	0.2242	0.2058	----	0.217	2.97	0.999	1.00	9.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acetone	1	0	Avg	0.0814	0.0602	0.0807	0.0881	0.0879	0.0897	0.0787	0.0899	----	0.0821	2.88	0.996	1.00	12	0.10 a	100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Carbon Disulfide	1	0	Avg	0.4503	0.3433	0.4288	0.4670	0.5034	0.5066	0.4732	0.3631	----	0.442	3.03	0.999	1.00	14	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butyl Alcohol	1	0	Qua	0.0216	0.0173	0.0215	0.0282	0.0302	0.0322	0.0278	0.0217	----	0.0251	3.31	0.994	0.999	21		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
n-Hexane	1	0	Avg	0.0825	0.0663	0.0723	0.0811	0.0920	0.0909	0.0914	0.0858	----	0.0829	3.67	1.00	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Di-isopropyl-ether	1	0	Avg	0.6388	0.4974	0.6027	0.6706	0.6625	0.6633	0.5688	0.6838	----	0.624	3.83	0.994	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethene	1	0	Avg	0.3374	0.2926	0.3225	0.3482	0.3536	0.3459	0.3176	0.1794	----	0.312	2.83	0.998	1.00	18	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl Acetate	1	0	Avg	0.2738	0.2240	0.2692	0.2966	0.2991	0.3106	0.2845	0.2934	----	0.281	3.14	0.998	1.00	9.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl-t-butyl ether	1	0	Avg	0.6642	0.5156	0.6307	0.6912	0.6881	0.6489	0.5318	0.6298	0.6008	0.622	3.45	0.989	1.00	10	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
1,1-Dichloroethane	1	0	Avg	0.4011	0.3301	0.4028	0.4082	0.4217	0.4134	0.3703	0.3842	----	0.392	3.81	0.997	1.00	7.6	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,2-Dichloroethe	1	0	Avg	0.2217	0.1801	0.2173	0.2365	0.2355	0.2280	0.1983	0.1726	----	0.211	3.46	0.995	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl-t-butyl ether	1	0	Avg	0.7748	0.6179	0.7392	0.8182	0.8242	0.7895	0.6714	0.7001	----	0.742	4.09	0.993	1.00	9.9	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,2-Dichloroethene	1	0	Avg	0.4520	0.3585	0.4296	0.4507	0.4526	0.4411	0.3893	0.4739	----	0.431	4.22	0.996	1.00	8.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromochloromethane	1	0	Avg	0.1780	0.1553	0.1764	0.1877	0.1899	0.1836	0.2297	0.2228	----	0.190	4.39	0.991	0.999	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2,2-Dichloropropane	1	0	Avg	0.3372	0.2745	0.3176	0.3235	0.3420	0.3258	0.2779	0.2387	----	0.305	4.23	0.993	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl acetate	1	0	Avg	0.2298	0.1924	0.1928	0.2752	0.2486	0.2688	0.2247	0.1873	----	0.227	4.25	0.992	0.999	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dioxane	1	0	Avg	0.0031	0.0023	0.0031	0.0033	0.0033	0.0033	0.0028	0.0027	----	0.00302	5.40	0.992	1.00	12		1000.	250.0	500.0	2500.	5000.	1250	2500	50.00	
1,1-Dichloropropene	1	0	Avg	0.3025	0.2562	0.2899	0.3098	0.3099	0.2898	0.2448	0.2778	----	0.285	4.65	0.992	1.00	8.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroform	1	0	Avg	0.4938	0.4339	0.4850	0.5017	0.4993	0.4710	0.4213	0.5127	----	0.477	4.43	0.996	1.00	7.0	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromofluoromethan	1	0	Avg	0.2898	0.2937	0.2932	0.2754	0.2773	0.2662	0.2397	0.2906	0.2864	0.279	4.53	-1	-1	6.3		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.1732	0.1418	0.1618	0.1753	0.1900	0.1894	0.1795	0.1153	----	0.166	4.59	0.999	1.00	15	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloroethane-d4	1	0	Avg	0.2177	0.2299	0.2208	0.2056	0.2081	0.1911	0.1801	0.2258	0.2334	0.213	4.76	-1	-1	8.5		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.5132	0.4506	0.5335	0.4943	0.4690	0.4194	0.3338	0.6030	0.5484	0.485	4.80	0.984	1.00	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
2-Butanone	1	0	Avg	0.1352	0.0806	0.1432	0.1612	0.1355	0.1551	0.1456	0.1170	----	0.134	4.24	0.999	0.999	19	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1-Trichloroethane	1	0	Avg	0.4286	0.3531	0.4095	0.4247	0.4274	0.4067	0.3461	0.3707	----	0.396	4.56	0.993	1.00	8.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Carbon Tetrachloride	1	0	Avg	0.3173	0.2750	0.3060	0.3034	0.3082	0.2817	0.2271	0.2779	----	0.287	4.66	0.986	1.00	10	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Acetate	1	0	Avg	0.4435	0.3373	0.4283	0.4659	0.4705	0.4620	0.3977	0.4386	----	0.431	3.82	0.994	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromodichloromethan	1	0	Avg	0.4046	0.3204	0.3766	0.4044	0.4088	0.3986	0.3396	0.3506	----	0.376	5.48	0.993	1.00	9.2	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 12.5
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form 6
Initial Calibration

Method: EPA 8260C

Instrument: GCMS_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3M116071.D	CAL @ 20 PPB	08/30/17 09:30	2	3M116069.D	CAL @ 5 PPB	08/30/17 08:57
3	3M116070.D	CAL @ 10 PPB	08/30/17 09:13	4	3M116078.D	CAL @ 50 PPB	08/30/17 11:27
5	3M116076.D	CAL @ 100 PPB	08/30/17 10:54	6	3M116074.D	CAL @ 250 PPB	08/30/17 10:20
7	3M116072.D	CAL @ 500 PPB	08/30/17 09:46	8	3M116091.D	CAL @ 1 PPB	08/30/17 14:54
9	3M116067.D	CAL @ 0.5 PPB	08/30/17 08:23				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.1299	0.1023	0.1219	0.1335	0.1358	0.1463	0.1352	0.0813	-----	0.123	5.30	0.998	1.00	17	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromomethane	1	0	Avg	0.1971	0.1503	0.1901	0.1967	0.1980	0.1850	0.1549	0.2183	-----	0.186	5.40	0.991	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloropropane	1	0	Avg	0.2184	0.1736	0.2114	0.2244	0.2283	0.2258	0.2051	0.1961	-----	0.210	5.33	0.998	1.00	8.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichloroethene	1	0	Avg	0.2363	0.1962	0.2398	0.2487	0.2536	0.2449	0.2116	0.1860	-----	0.227	5.18	0.994	1.00	11	0.20 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Benzene	1	0	Avg	0.7988	0.6618	0.7732	0.8051	0.8047	0.7357	0.5737	0.7970	0.8635	0.757	4.79	0.982	1.00	12	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.6779	0.5361	0.6498	0.7137	0.7008	0.6468	0.5053	0.5753	-----	0.626	4.83	0.982	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iso-propylacetate	1	0	Avg	0.6679	0.4958	0.6319	0.7345	0.7192	0.6836	0.5801	0.5867	-----	0.638	4.79	0.992	1.00	13	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl methacrylate	1	0	Avg	0.3933	0.2947	0.3655	0.4010	0.4344	0.4079	0.3659	0.3783	-----	0.380	5.36	0.996	1.00	11	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromochloromethan	1	0	Avg	0.3824	0.2990	0.3639	0.3935	0.3991	0.3912	0.3548	0.3226	-----	0.363	6.44	0.997	1.00	10	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chloroethylvinylethe	1	0	Avg	0.2097	0.1757	0.1852	0.2348	0.2350	0.2408	0.2366	0.1590	-----	0.210	5.64	1.00	1.00	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,3-Dichloropropen	1	0	Avg	0.5105	0.3821	0.4788	0.5439	0.5448	0.5484	0.5157	0.4221	-----	0.493	5.75	0.999	1.00	13	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,3-Dichloroprop	1	0	Avg	0.5108	0.3555	0.4923	0.5507	0.5492	0.5370	0.4917	0.3797	-----	0.483	6.07	0.998	1.00	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl methacrylate	1	0	Avg	0.3755	0.2666	0.3647	0.4117	0.3972	0.3987	0.3532	0.3338	-----	0.363	6.08	0.996	1.00	13	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloroethane	1	0	Avg	0.3025	0.2716	0.3004	0.3208	0.3122	0.3153	0.2851	0.3318	-----	0.305	6.19	0.997	1.00	6.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromoethane	1	0	Avg	0.3186	0.2627	0.3179	0.3402	0.3371	0.3360	0.3169	0.3244	-----	0.319	6.53	0.999	1.00	7.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.5316	0.4330	0.5217	0.5557	0.5323	0.5029	0.4357	0.5338	-----	0.506	6.29	0.994	1.00	9.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.3191	0.2464	0.2993	0.3604	0.3640	0.3833	0.3649	0.2368	-----	0.322	5.82	0.999	1.00	18	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Hexanone	1	0	Avg	0.2380	0.1578	0.2289	0.2622	0.2562	0.2603	0.2399	0.1867	-----	0.229	6.31	0.998	1.00	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Tetrachloroethene	1	0	Avg	0.2007	0.1724	0.1882	0.2023	0.1899	0.1823	0.1487	0.1699	-----	0.182	6.29	0.988	1.00	9.8	0.20 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Toluene-d8	1	0	Avg	1.2946	1.3204	1.3162	1.3156	1.2970	1.3413	1.3766	1.3028	1.3230	1.32	5.91	-1	-1	1.9		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.6536	0.5769	0.6517	0.6753	0.6570	0.6397	0.5789	0.6844	-----	0.640	5.96	0.997	1.00	6.3	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.2989	0.2367	0.2882	0.2980	0.2900	0.2564	0.2009	0.3049	-----	0.272	6.85	0.981	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chlorobenzene	1	0	Avg	0.7352	0.6666	0.7516	0.7608	0.7469	0.7155	0.6432	0.7933	-----	0.727	6.81	0.997	1.00	6.9	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butyl acrylate	1	0	Qua	1.7730	1.2091	1.6473	1.9980	1.9464	2.1462	1.9939	1.1407	-----	1.73	7.07	0.999	0.999	22	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Amyl acetate	1	0	Avg	1.4072	0.9853	1.3358	1.5447	1.4771	1.5877	1.4704	1.0975	-----	1.36	7.21	0.999	1.00	16	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromoform	1	0	Avg	0.6566	0.4591	0.5835	0.6868	0.6699	0.7580	0.7183	0.5419	-----	0.634	7.32	0.999	0.999	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethylbenzene	1	0	Avg	0.5416	0.4036	0.5243	0.5775	0.5392	0.5285	0.3971	0.5410	-----	0.507	6.85	0.977	0.999	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.9956	0.7463	0.9615	1.0396	1.0107	1.0786	1.0245	0.8840	-----	0.968	7.56	0.999	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromofluorobenzene	1	0	Avg	1.0726	1.0207	1.0607	1.0792	1.0567	1.1594	1.2344	1.0530	1.0836	1.09	7.50	-1	-1	6.0		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.9030	1.4468	1.8511	1.9457	1.8392	1.8376	1.4491	1.5065	-----	1.72	7.17	0.985	0.999	12	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
m&p-Xylenes	1	0	Avg	0.9217	0.7824	0.9420	0.9584	0.8817	0.8946	0.7150	0.9555	0.8276	0.875	6.92	0.987	0.999	9.6	0.10	40.00	10.00	20.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.9890	0.7445	0.9902	1.0135	0.9348	0.9436	0.7650	0.8720	-----	0.907	7.17	0.988	0.999	11	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.4379	0.2682	0.3982	0.4409	0.4356	0.4740	0.4198	0.2968	-----	0.396	7.59	0.996	0.999	19		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichlorobenzene	1	0	Avg	1.1114	0.8169	1.1202	1.1460	1.0372	1.1207	1.0054	1.1776	-----	1.07	8.20	0.997	0.999	11	0.60	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dichlorobenzene	1	0	Avg	1.1681	0.9111	1.1664	1.1938	1.0901	1.1865	1.0501	1.2909	-----	1.13	8.25	0.996	0.999	10	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichlorobenzene	1	0	Avg	1.1945	0.8686	1.1377	1.1830	1.1022	1.1874	1.0581	1.1466	-----	1.11	8.50	0.997	0.999	9.7	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Isopropylbenzene	1	0	Avg	1.9987	1.5767	1.9572	2.1091	1.8792	2.0768	1.8286	1.6128	-----	1.88	7.38	0.996	0.999	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Qua	0.0485	0.0368	0.0492	0.0541	0.0537	0.0592	0.0562	0.0788	-----	0.0546	7.48	0.999	0.999	22		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Camphene	1	0	Avg	0.6378	0.4252	0.6114	0.6980	0.6184	0.6784	0.5350	0.4753	-----	0.585	7.57	0.985	0.998	17		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichloropropane	1	0	Avg	1.2826	0.9690	1.2210	1.3257	1.2823	1.3349	1.1782	1.1475	-----	1.22	7.60	0.996	1.00	9.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chlorotoluene	1	0	Avg	1.2840	1.0503	1.3009	1.3531	1.1776	1.1184	0.8325	1.1077	-----	1.15	7.72	0.974	0.999	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 12.5
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

7092827 0070

7092827 0071

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3M116071.D	CAL @ 20 PPB	08/30/17 09:30	2	3M116069.D	CAL @ 5 PPB	08/30/17 08:57
3	3M116070.D	CAL @ 10 PPB	08/30/17 09:13	4	3M116078.D	CAL @ 50 PPB	08/30/17 11:27
5	3M116076.D	CAL @ 100 PPB	08/30/17 10:54	6	3M116074.D	CAL @ 250 PPB	08/30/17 10:20
7	3M116072.D	CAL @ 500 PPB	08/30/17 09:46	8	3M116091.D	CAL @ 1 PPB	08/30/17 14:54
9	3M116067.D	CAL @ 0.5 PPB	08/30/17 08:23				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.1459	1.7497	2.2822	2.3141	2.0467	2.1222	1.9103	1.8553	-----	2.05	7.70	0.997	1.00	9.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Chlorotoluene	1	0	Avg	1.4128	1.0498	1.3277	1.3756	1.2451	1.3154	1.0872	1.2415	-----	1.26	7.78	0.991	0.999	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Propylbenzene	1	0	Avg	2.1133	1.5878	2.0600	2.1692	1.8719	2.0608	1.7144	1.6555	-----	1.90	7.63	0.992	0.998	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.8594	1.5783	1.8366	2.1248	1.9743	2.0104	1.7196	1.8763	-----	1.87	7.61	0.994	1.00	9.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3,5-Trimethylbenzen	1	0	Avg	1.5435	1.0736	1.3842	1.4207	1.1915	1.1935	0.8100	1.2921	-----	1.24	7.73	0.956	0.998	18		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	1.1485	0.9188	1.1503	1.2386	1.1470	1.1319	0.9415	0.8802	-----	1.07	7.73	0.991	1.00	13	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.3339	1.0132	1.3318	1.4568	1.2420	1.4081	1.2216	1.0958	-----	1.26	7.95	0.995	0.999	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.8226	1.3245	1.7748	1.8479	1.6252	1.8200	1.5173	1.3651	-----	1.64	7.97	0.992	0.998	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	1.5524	1.0827	1.4564	1.6163	1.4064	1.6486	1.4371	1.1705	-----	1.42	8.08	0.995	0.998	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	1.3648	0.9230	1.3145	1.4135	1.2159	1.4232	1.1975	1.2258	-----	1.26	8.16	0.992	0.998	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	1.5134	1.0150	1.4434	1.6175	1.3919	1.5953	1.3586	1.1910	-----	1.39	8.43	0.994	0.998	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.8774	0.5458	0.7932	0.8966	0.7741	0.9092	0.7641	0.6292	-----	0.774	8.41	0.992	0.998	17		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4,5-Tetramethylbe	1	0	Avg	1.3685	0.8160	1.2821	1.2942	1.1749	1.4789	1.0222	0.9824	-----	1.18	8.92	0.963	0.992	19		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromo-3-Chloro	1	0	Qua	0.1966	0.1312	0.1792	0.2137	0.2185	0.2533	0.2540	0.1443	-----	0.199	9.01	0.999	0.999	23	0.05	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Camphor	1	0	Qua	0.1002	0.0609	0.0920	0.1080	0.1065	0.1142	0.1031	0.0642	0.0717	0.0912	9.49	0.998	0.999	22		200.0	50.00	100.0	500.0	1000.	2500.	5000.	10.00	5.00
Hexachlorobutadiene	1	0	Qua	0.2579	0.1813	0.2602	0.3633	0.2870	0.3036	0.2496	0.6205	-----	0.315	9.64	0.989	0.999	42		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trichlorobenzen	1	0	Avg	0.5387	0.3230	0.5233	0.5630	0.4944	0.5772	0.4813	0.5457	-----	0.506	9.55	0.992	0.998	16	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichlorobenzen	1	0	Avg	0.4836	0.3246	0.4801	0.5323	0.4769	0.5583	0.4509	0.5264	-----	0.479	9.90	0.988	0.997	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Naphthalene	1	0	Avg	1.6370	1.0211	1.4730	1.6344	1.5313	1.8257	1.3774	1.3943	-----	1.49	9.73	0.979	0.995	16		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 12.5
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 3M117847.D **Instrument:** GCMS 3

Cont Calibration Date/Time 10/2/2017 7:44:00 A Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	4.94	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.58	15.07	20	20	0.1	0.327	0.247	24.65	C1
Dichlorodifluoromethane	1	0		1.58	36.44	20	20	0.1	0.091	0.192	82.20	C1
Chloromethane	1	0		1.73	26.77	20	20	0.1	0.160	0.214	33.87	C1
Bromomethane	1	0		2.10	19.77	20	20	0.1	0.093	0.092	1.14	
Vinyl Chloride	1	0		1.81	22.25	20	20	0.1	0.179	0.199	11.25	
Chloroethane	1	0		2.18	22.31	20	20	0.1	0.103	0.115	11.54	
Trichlorofluoromethane	1	0		2.39	23.49	20	20	0.1	0.326	0.383	17.44	
Ethyl ether	1	0		2.62	22.93	20	20	0.5	0.206	0.237	14.67	
Furan	1	0		2.66	23.49	20	20	0.5	0.366	0.429	17.47	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.80	23.66	20	20	0.1	0.136	0.161	18.32	
Methylene Chloride	1	0		3.22	21.44	20	20	0.1	0.255	0.273	7.19	
Acrolein	1	0		2.74	99.71	100	20		0.039	0.039	0.29	
Acrylonitrile	1	0		3.43	23.27	20	20		0.078	0.090	16.37	
Iodomethane	1	0		2.96	18.05	20	20		0.217	0.196	9.73	
Acetone	1	0		2.86	114.95	100	20	0.1	0.082	0.094	14.95	
Carbon Disulfide	1	0		3.01	19.55	20	20	0.1	0.442	0.432	2.26	
t-Butyl Alcohol	1	0		3.29	80.17	100	20		0.025	0.027	19.83	
n-Hexane	1	0		3.65	25.49	20	20		0.083	0.106	27.46	C1
Di-isopropyl-ether	1	0		3.81	23.64	20	20		0.624	0.737	18.18	
1,1-Dichloroethene	1	0		2.81	23.07	20	20	0.1	0.312	0.360	15.37	
Methyl Acetate	1	0		3.12	22.74	20	20	0.1	0.281	0.320	13.69	
Methyl-t-butyl ether	1	0		3.43	23.85	20	20	0.1	0.622	0.742	19.23	
1,1-Dichloroethane	1	0		3.79	22.69	20	20	0.2	0.392	0.444	13.43	
trans-1,2-Dichloroethene	1	0		3.44	23.11	20	20	0.1	0.211	0.244	15.56	
Ethyl-t-butyl ether	1	0		4.08	23.99	20	20	0.5	0.742	0.890	19.97	
cis-1,2-Dichloroethene	1	0		4.21	23.96	20	20	0.1	0.431	0.516	19.81	
Bromochloromethane	1	0		4.37	23.18	20	20		0.190	0.221	15.90	
2,2-Dichloropropane	1	0		4.21	28.24	20	20		0.305	0.430	41.18	C1
Ethyl acetate	1	0		4.23	19.07	20	20		0.227	0.217	4.67	
1,4-Dioxane	1	0		5.38	1122.96	1000	20		0.003	0.003	12.30	
1,1-Dichloropropene	1	0		4.64	23.85	20	20		0.285	0.340	19.25	
Chloroform	1	0		4.41	23.20	20	20	0.2	0.477	0.554	16.02	
Dibromofluoromethane	1	0	S	4.52	32.72	30	**		0.279	0.305	9.06	
Cyclohexane	1	0		4.57	25.44	20	20	0.1	0.166	0.211	27.19	C1
1,2-Dichloroethane-d4	1	0	S	4.74	32.87	30	**		0.213	0.233	9.58	
1,2-Dichloroethane	1	0		4.78	23.50	20	20	0.1	0.485	0.570	17.52	
2-Butanone	1	0		4.22	20.13	20	20	0.1	0.134	0.135	0.65	
1,1,1-Trichloroethane	1	0		4.54	22.59	20	20	0.1	0.396	0.447	12.94	
Carbon Tetrachloride	1	0		4.65	23.64	20	20	0.1	0.287	0.339	18.21	
Vinyl Acetate	1	0		3.81	23.92	20	20		0.431	0.515	19.58	
Bromodichloromethane	1	0		5.47	23.50	20	20	0.2	0.376	0.441	17.50	
Methylcyclohexane	1	0		5.28	24.70	20	20	0.1	0.123	0.152	23.50	C1
Dibromomethane	1	0		5.39	21.38	20	20		0.186	0.199	6.91	
1,2-Dichloropropane	1	0		5.31	23.95	20	20	0.1	0.210	0.252	19.77	
Trichloroethene	1	0		5.16	21.67	20	20	0.2	0.227	0.246	8.35	
Benzene	1	0		4.78	23.44	20	20	0.5	0.757	0.887	17.21	
tert-Amyl methyl ether	1	0		4.81	23.63	20	20		0.626	0.739	18.14	
Chlorobenzene-d5	1	0	I	6.77	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.77	20.35	20	20	0.5	0.638	0.649	1.75	
Methyl methacrylate	1	0		5.34	20.62	20	20	0.5	0.380	0.392	3.12	
Dibromochloromethane	1	0		6.42	18.49	20	20	0.1	0.363	0.336	7.53	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 3M117847.D **Instrument:** GCMS 3

Cont Calibration Date/Time 10/2/2017 7:44:00 A Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.62	18.16	20	20		0.210	0.190	9.19	
cis-1,3-Dichloropropene	1	0		5.73	19.20	20	20	0.2	0.493	0.474	3.99	
trans-1,3-Dichloropropene	1	0		6.05	19.91	20	20	0.1	0.483	0.481	0.44	
Ethyl methacrylate	1	0		6.07	20.58	20	20	0.5	0.363	0.373	2.89	
1,1,2-Trichloroethane	1	0		6.17	18.85	20	20	0.1	0.305	0.287	5.76	
1,2-Dibromoethane	1	0		6.51	18.14	20	20	0.1	0.319	0.290	9.32	
1,3-Dichloropropane	1	0		6.28	19.79	20	20		0.506	0.501	1.04	
4-Methyl-2-Pentanone	1	0		5.81	19.53	20	20	0.1	0.322	0.314	2.36	
2-Hexanone	1	0		6.29	19.67	20	20	0.1	0.229	0.225	1.67	
Tetrachloroethene	1	0		6.27	19.28	20	20	0.2	0.182	0.175	3.59	
Toluene-d8	1	0	S	5.90	27.49	30	**		1.321	1.211	8.35	
Toluene	1	0		5.94	18.46	20	20	0.4	0.640	0.591	7.69	
1,1,1,2-Tetrachloroethane	1	0		6.83	19.37	20	20		0.272	0.263	3.14	
Chlorobenzene	1	0		6.79	18.62	20	20	0.5	0.727	0.676	6.91	
1,4-Dichlorobenzene-d4	1	0	I	8.21	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.05	17.27	20	20	0.5	1.732	1.863	13.64	
n-Amyl acetate	1	0		7.19	17.72	20	20	0.5	1.363	1.208	11.40	
Bromoform	1	0		7.30	14.57	20	20	0.1	0.634	0.462	27.14	C1
Ethylbenzene	1	0		6.83	17.26	20	20	0.1	0.507	0.437	13.71	
1,1,2,2-Tetrachloroethane	1	0		7.54	16.81	20	20	0.1	0.968	0.813	15.95	
Bromofluorobenzene	1	0	S	7.48	27.42	30	**		1.091	0.997	8.60	
Styrene	1	0		7.16	17.32	20	20	0.3	1.722	1.492	13.39	
m&p-Xylenes	1	0		6.90	34.28	40	20	0.1	0.875	0.750	14.29	
o-Xylene	1	0		7.15	17.41	20	20	0.3	0.907	0.789	12.94	
trans-1,4-Dichloro-2-butene	1	0		7.57	19.29	20	20		0.396	0.382	3.55	
1,3-Dichlorobenzene	1	0		8.18	16.27	20	20	0.6	1.067	0.868	18.64	
1,4-Dichlorobenzene	1	0		8.23	15.59	20	20	0.5	1.132	0.883	22.03	C1
1,2-Dichlorobenzene	1	0		8.48	15.58	20	20	0.4	1.110	0.865	22.10	C1
Isopropylbenzene	1	0		7.36	16.26	20	20	0.1	1.880	1.529	18.69	
Cyclohexanone	1	0		7.46	134.35	100	20		0.055	0.079	34.35	C1
Camphene	1	0		7.55	17.79	20	20		0.585	0.520	11.04	
1,2,3-Trichloropropane	1	0		7.59	16.77	20	20		1.218	1.021	16.13	
2-Chlorotoluene	1	0		7.70	18.72	20	20		1.153	1.079	6.39	
p-Ethyltoluene	1	0		7.68	16.89	20	20		2.053	1.734	15.53	
4-Chlorotoluene	1	0		7.76	18.16	20	20		1.257	1.141	9.22	
n-Propylbenzene	1	0		7.61	17.12	20	20		1.904	1.630	14.40	
Bromobenzene	1	0		7.60	18.26	20	20		1.873	1.710	8.70	
1,3,5-Trimethylbenzene	1	0		7.71	17.66	20	20		1.239	1.094	11.70	
Butyl methacrylate	1	0		7.71	19.71	20	20	0.5	1.070	1.054	1.43	
t-Butylbenzene	1	0		7.93	15.99	20	20		1.263	1.010	20.04	
1,2,4-Trimethylbenzene	1	0		7.96	16.69	20	20		1.637	1.367	16.53	
sec-Butylbenzene	1	0		8.06	16.15	20	20		1.421	1.147	19.27	
4-Isopropyltoluene	1	0		8.14	15.41	20	20		1.260	0.971	22.93	C1
n-Butylbenzene	1	0		8.41	16.80	20	20		1.391	1.168	16.01	
p-Diethylbenzene	1	0		8.39	16.22	20	20		0.774	0.627	18.92	
1,2,4,5-Tetramethylbenzene	1	0		8.91	16.95	20	20		1.177	0.998	15.24	
1,2-Dibromo-3-Chloropropane	1	0		8.99	10.36	20	20	0.05	0.199	0.122	48.22	C1
Camphor	1	0		9.48	128.79	200	20		0.091	0.076	35.60	C1
Hexachlorobutadiene	1	0		9.61	10.47	20	20		0.315	0.177	47.66	C1
1,2,4-Trichlorobenzene	1	0		9.53	14.84	20	20	0.2	0.506	0.375	25.81	C1
1,2,3-Trichlorobenzene	1	0		9.87	13.25	20	20		0.479	0.317	33.76	C1
Naphthalene	1	0		9.72	14.65	20	20		1.487	1.089	26.74	C1

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

7092827 0074

FORM8

Internal Standard Areas

Evaluation Std Data File: 3M116071.D Method: EPA 8260C

Analysis Date/Time: 08/30/17 09:30

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	364306	4.96	273923	6.80	105153	8.24								
Eval File Area Limit:	182153-728612		136962-547846		52576-210306									
Eval File Rt Limit:	4.46-5.46		6.3-7.3		7.74-8.74									

Data File	Sample						
3M116066.D	BLK	353021	4.96	274151	6.79	106563	8.23
3M116067.D	CAL @ 0.5 PPB	336206	4.96	259608	6.80	96458	8.24
3M116068.D	1 PPB	357134	4.96	263337	6.80	107813	8.23
3M116069.D	CAL @ 5 PPB	369383	4.96	267997	6.80	109499	8.24
3M116070.D	CAL @ 10 PPB	362525	4.96	266489	6.80	103754	8.24
3M116071.D	CAL @ 20 PPB	364306	4.96	273923	6.80	105153	8.24
3M116072.D	CAL @ 500 PPB	376570	4.96	267343	6.80	91959	8.24
3M116074.D	CAL @ 250 PPB	382080	4.96	290851	6.80	105324	8.24
3M116076.D	CAL @ 100 PPB	393642	4.96	301549	6.80	120814	8.24
3M116078.D	CAL @ 50 PPB	399843	4.96	295879	6.80	114444	8.24
3M116091.D	CAL @ 1 PPB	353172	4.96	261085	6.80	102692	8.24
3M116092.D	ICV	344812	4.96	263983	6.80	97855	8.24

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

7092827 0075

FORM8

Internal Standard Areas

Evaluation Std Data File: 3M117847.D Method: EPA 8260C

Analysis Date/Time: 10/02/17 07:44

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	329680	4.94	302353	6.77	134029	8.21								
Eval File Area Limit:	164840-659360		151176-604706		67014-268058									
Eval File Rt Limit:	4.44-5.44		6.27-7.27		7.71-8.71									

Data File	Sample						
3M117846.D	20 PPB	333888	4.93	306713	6.77	127979	8.21
3M117848.D	BLK	314942	4.93	291671	6.77	114826	8.21
3M117849.D	DAILY BLANK	289557	4.93	268254	6.77	115278	8.21
3M117850.D	DAILY BLANK	294126	4.93	276144	6.77	114800	8.21
3M117851.D	AD00297-001(T)	267390	4.93	249852	6.77	95983	8.21
3M117852.D	AD00298-001(T)	267821	4.93	243367	6.77	102317	8.21
3M117853.D	AD00319-002(T)	294417	4.93	263189	6.77	115767	8.21
3M117854.D	MBS64315	285460	4.93	274612	6.77	116376	8.21
3M117855.D	MBS64316	282470	4.94	265249	6.77	116506	8.21
3M117856.D	AD00298-001(T:MS)	308338	4.93	299919	6.77	128143	8.21
3M117857.D	AD00298-001(T:MSD)	281025	4.93	271404	6.77	117379	8.21
3M117858.D	EF-1V-264202(093017	293549	4.93	269102	6.77	114493	8.21
3M117859.D	EF-3V-10896(092817)	287283	4.93	268289	6.77	115211	8.21
3M117860.D	EF-3V-10896(092917)	206726	4.93	193741	6.77	83822	8.21
3M117861.D	AD00308-017	268379	4.94	247753	6.77	95780	8.21
3M117862.D	AD00301-015	298146	4.94	277127	6.77	116122	8.21
3M117863.D	AD00301-016	250623	4.94	238465	6.77	101582	8.21
3M117864.D	00295-002	257904	4.93	240765	6.77	97806	8.21
3M117865.D	AD00308-015	268267	4.93	253681	6.77	101980	8.21
3M117866.D	AD00311-008	268108	4.94	260054	6.77	108630	8.21
3M117867.D	AD00311-009	255510	4.94	239794	6.77	98326	8.21
3M117868.D	AD00311-001	263293	4.93	249001	6.77	103471	8.21
3M117869.D	AD00311-002	250411	4.94	231165	6.77	96142	8.21
3M117870.D	AD00311-003	281200	4.94	266660	6.77	110496	8.21
3M117871.D	AD00311-004	243642	4.94	239419	6.77	96014	8.21
3M117872.D	AD00311-005	240751	4.94	230035	6.77	98097	8.21
3M117873.D	AD00311-007	263460	4.94	250238	6.77	108361	8.21
3M117874.D	AD00311-006	243578	4.93	229372	6.77	94926	8.21
3M117875.D	AD00308-005	243987	4.94	228505	6.77	96320	8.21
3M117876.D	AD00308-009	245721	4.94	233333	6.77	101485	8.21
3M117877.D	AD00277-001	255181	4.94	247021	6.77	109395	8.21
3M117878.D	BLK	250532	4.94	244722	6.77	105563	8.21

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

7092827 0076

FORM8

Internal Standard Areas

Evaluation Std Data File: 3M117847.D Method: EPA 8260C

Analysis Date/Time: 10/02/17 07:44

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	329680	4.94	302353	6.77	134029	8.21								
Eval File Area Limit:	164840-659360		151176-604706		67014-268058									
Eval File Rt Limit:	4.44-5.44		6.27-7.27		7.71-8.71									

Data File	Sample						
3M117879.D	AD00311-002	250470	4.94	243400	6.77	105963	8.21
3M117880.D	AD00311-004	269216	4.93	257447	6.77	111679	8.21
3M117881.D	AD00311-005	270076	4.94	257810	6.77	113197	8.21
3M117882.D	AD00311-006	269796	4.94	263173	6.77	111231	8.21
3M117883.D	AD00311-003	253185	4.94	242366	6.77	103293	8.21
3M117884.D	AD00311-007	264953	4.94	255959	6.77	110200	8.21

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

Base Neutral/Acid Extractable Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD00298-002(5X)(R)
Client Id: 475 EXTERIOR NYRECYC
Data File: 7M87023.D
Analysis Date: 10/04/17 15:12
Date Rec/Extracted: 09/28/17-10/04/17
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 5
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-95-4	2,4,5-Trichlorophenol	0.18	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.18**	**0.69**
120-83-2	2,4-Dichlorophenol	0.045	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.18**	**0.35**
51-28-5	2,4-Dinitrophenol	0.91	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.18	U
606-20-2	2,6-Dinitrotoluene	0.18	U	85-68-7	Butylbenzylphthalate	0.18	U
95-57-8	2-Chlorophenol	0.18	U	**218-01-9**	**Chrysene**	**0.18**	**0.93**
91-57-6	2-Methylnaphthalene	0.18	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.18**	**0.20**
95-48-7	2-Methylphenol	0.045	U	132-64-9	Dibenzofuran	0.045	U
88-74-4	2-Nitroaniline	0.18	U	84-66-2	Diethylphthalate	0.18	U
88-75-5	2-Nitrophenol	0.18	U	131-11-3	Dimethylphthalate	0.18	U
106-44-5	3&4-Methylphenol	0.045	U	84-74-2	Di-n-butylphthalate	0.045	U
91-94-1	3,3'-Dichlorobenzidine	0.18	U	117-84-0	Di-n-octylphthalate	0.18	U
99-09-2	3-Nitroaniline	0.18	U	**206-44-0**	**Fluoranthene**	**0.18**	**1.5**
59-50-7	4-Chloro-3-methylphenol	0.18	U	86-73-7	Fluorene	0.18	U
106-47-8	4-Chloroaniline	0.045	U	118-74-1	Hexachlorobenzene	0.18	U
100-02-7	4-Nitrophenol	0.18	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.18**	**0.62**
83-32-9	Acenaphthene	0.18	U	78-59-1	Isophorone	0.18	U
208-96-8	Acenaphthylene	0.18	U	91-20-3	Naphthalene	0.045	U
62-53-3	Aniline	0.045	U	98-95-3	Nitrobenzene	0.18	U
120-12-7	**Anthracene**	**0.18**	**0.24**	87-86-5	Pentachlorophenol	0.91	U
56-55-3	**Benzo[a]anthracene**	**0.18**	**0.95**	**85-01-8**	**Phenanthrene**	**0.18**	**0.61**
50-32-8	**Benzo[a]pyrene**	**0.18**	**0.94**	108-95-2	Phenol	0.18	U
205-99-2	**Benzo[b]fluoranthene**	**0.18**	**1.2**	**129-00-0**	**Pyrene**	**0.18**	**1.7**

Worksheet #: 439254 *Total Target Concentration* 9.9 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

7092827 0079

SampleID : AD00298-002(5X)(R) Operator : AH/JB Qt Meth : 7M_0911.M
Data File: 7M87023.D Sam Mult : 1 Vial# : 17 Qt On : 10/04/17 15:29
Acq On : 10/ 4/17 15:12 Misc : S,BNA:5 Qt Upd On: 09/11/17 15:53

Data Path : G:\GcMsData\2017\GCMS_7\Data\10-04-17\
Qt Path : G:\GCMSDATA\2017\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.658	96	26606	40.00	ng	-0.01
21) 1,4-Dichlorobenzene-d4	5.879	152	61959	40.00	ng	0.00
31) Naphthalene-d8	6.889	136	248060	40.00	ng	-0.01
50) Acenaphthene-d10	8.321	164	158164	40.00	ng	-0.02
77) Phenanthrene-d10	9.784	188	262066	40.00	ng	-0.01
91) Chrysene-d12	12.840	240	251270	40.00	ng	0.00
103) Perylene-d12	14.480	264	253946	40.00	ng	-0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.698	112	26093	14.90	ng	0.01
Spiked Amount 100.000			Recovery = 14.90%			
16) Phenol-d5	5.575	99	36379	15.07	ng	0.00
Spiked Amount 100.000			Recovery = 15.07%			
32) Nitrobenzene-d5	6.328	128	6631	6.20	ng	0.00
Spiked Amount 50.000			Recovery = 12.40%			
55) 2-Fluorobiphenyl	7.728	172	37403	7.13	ng	-0.02
Spiked Amount 50.000			Recovery = 14.26%			
80) 2,4,6-Tribromophenol	9.063	330	8610	12.90	ng	0.00
Spiked Amount 100.000			Recovery = 12.90%			
94) Terphenyl-d14	11.585	244	30360	8.14	ng	0.00
Spiked Amount 50.000			Recovery = 16.28%			
Target Compounds						Qvalue
86) Phenanthrene	9.811	178	49209	6.7345	ng	98
87) Anthracene	9.864	178	19070	2.6300	ng	96
90) Fluoranthene	11.141	202	140787	17.0777	ng	93
92) Pyrene	11.408	202	130475	19.1437	ng	88
100) Benzo[a]anthracene	12.829	228	73885	10.5063	ng	97
101) Chrysene	12.872	228	67599	10.2675	ng	97
105) Benzo[b]fluoranthene	14.053	252	106150m	13.7889	ng	
106) Benzo[k]fluoranthene	14.079	252	28786m	3.8884	ng	
107) Benzo[a]pyrene	14.416	252	73612	10.3263	ng	90
108) Indeno[1,2,3-cd]pyrene	15.826	276	49690	6.8006	ng	75
109) Dibenzo[a,h]anthracene	15.832	278	13764	2.2307	ng	85
110) Benzo[g,h,i]perylene	16.211	276	46107	7.6481	ng	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed

lce

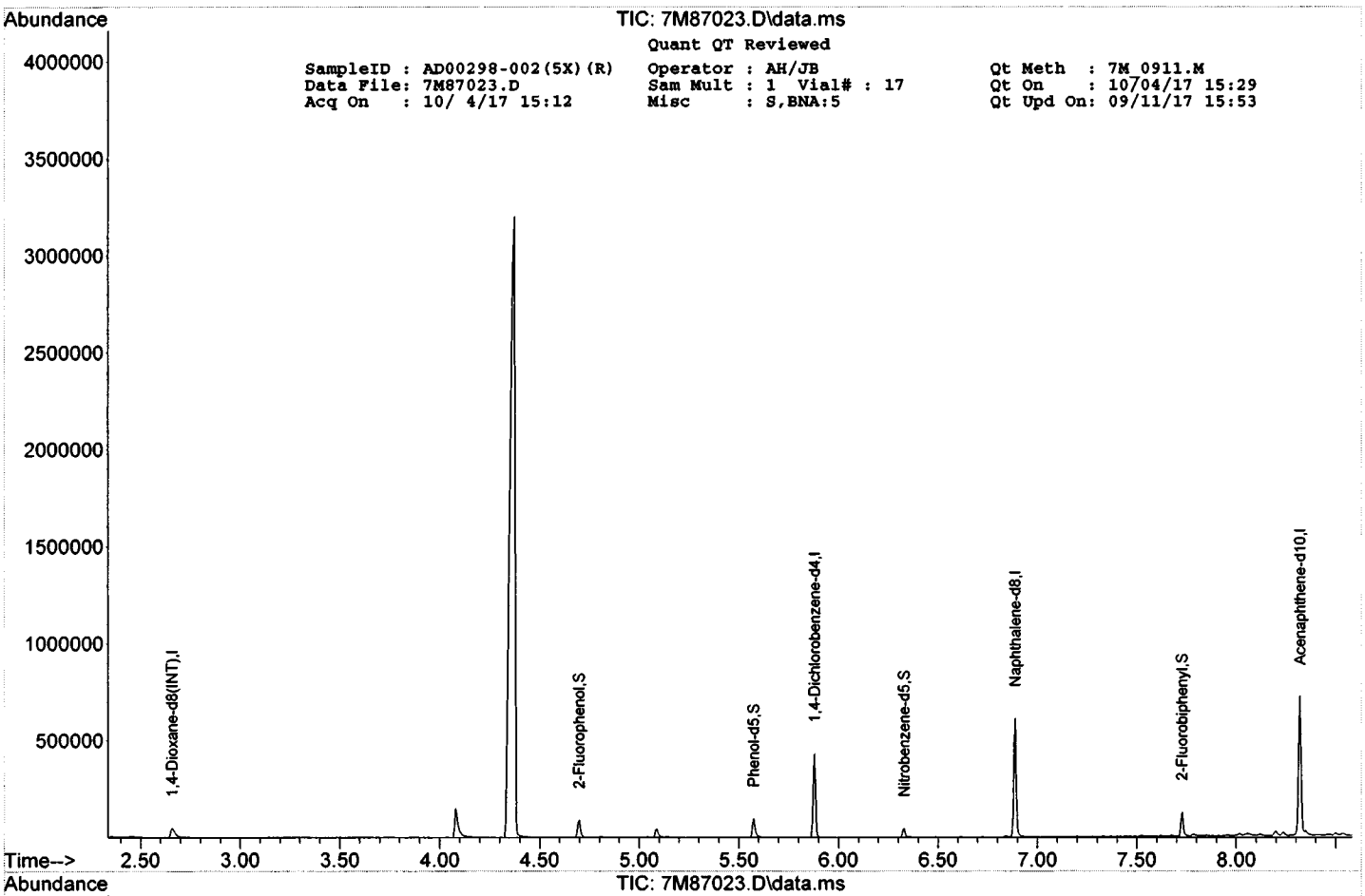
Abundance
TIC: 7M87023.D\data.ms
Quant QT Reviewed
SampleID : AD00298-002(5X)(R)
Data File: 7M87023.D
Acq On : 10/ 4/17 15:12
Operator : AH/JB
Sam Mult : 1 Vial# : 17
Misc : S,BNA:5
Qt Meth : 7M_0911.M
Qt On : 10/04/17 15:29
Qt Upd On: 09/11/17 15:53
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Time-->

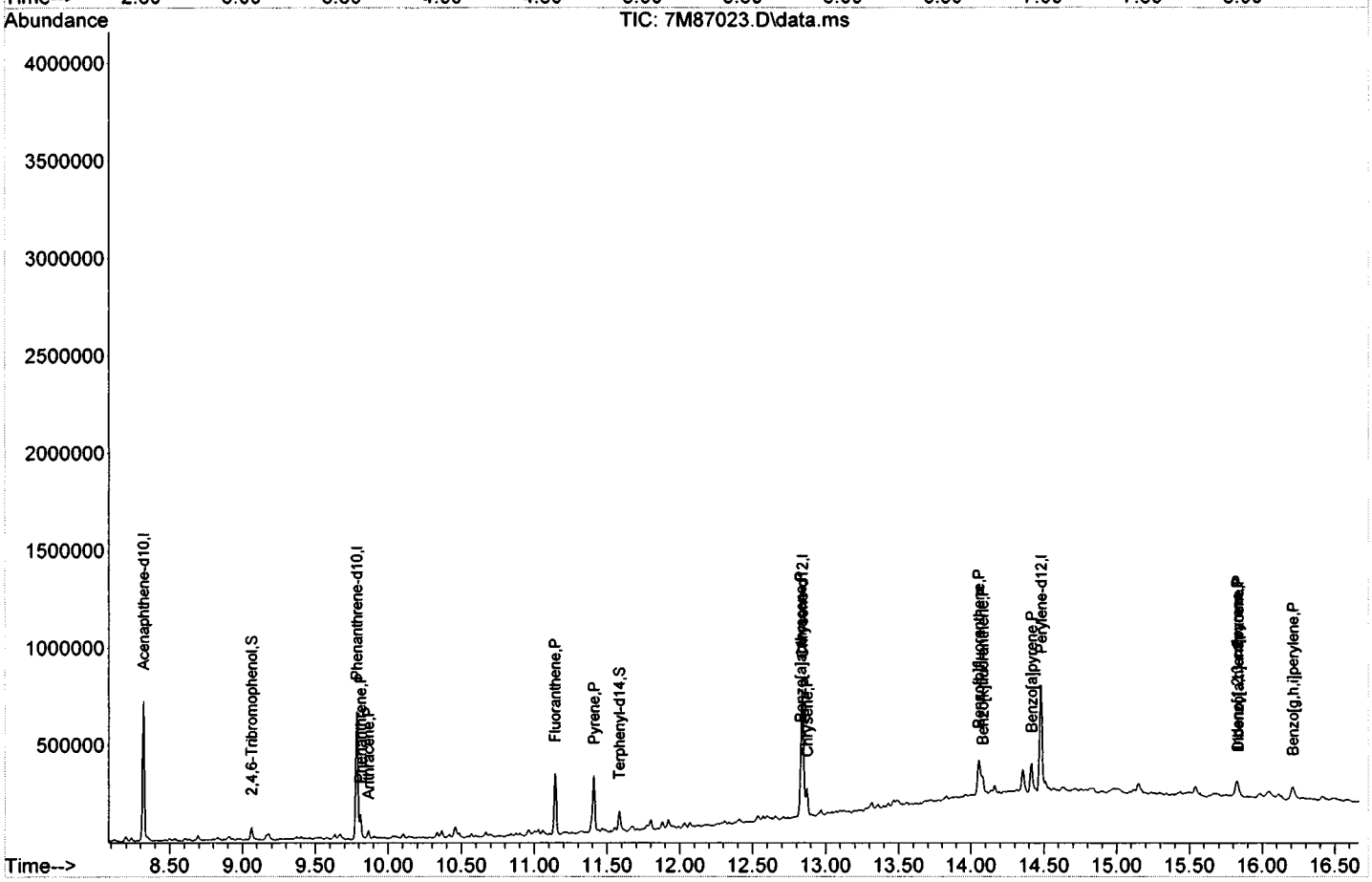
Abundance
TIC: 7M87023.D\data.ms
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB63067
Client Id:
Data File: 7M87029.D
Analysis Date: 10/04/17 17:58
Date Rec/Extracted: NA-10/04/17
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-95-4	2,4,5-Trichlorophenol	0.033	U	191-24-2	Benzo[g,h,i]perylene	0.033	U
120-83-2	2,4-Dichlorophenol	0.0083	U	207-08-9	Benzo[k]fluoranthene	0.033	U
51-28-5	2,4-Dinitrophenol	0.17	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	85-68-7	Butylbenzylphthalate	0.033	U
95-57-8	2-Chlorophenol	0.033	U	218-01-9	Chrysene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
95-48-7	2-Methylphenol	0.0083	U	132-64-9	Dibenzofuran	0.0083	U
88-74-4	2-Nitroaniline	0.033	U	84-66-2	Diethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	131-11-3	Dimethylphthalate	0.033	U
106-44-5	3&4-Methylphenol	0.0083	U	84-74-2	Di-n-butylphthalate	0.0083	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	117-84-0	Di-n-octylphthalate	0.033	U
99-09-2	3-Nitroaniline	0.033	U	206-44-0	Fluoranthene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	86-73-7	Fluorene	0.033	U
106-47-8	4-Chloroaniline	0.0083	U	118-74-1	Hexachlorobenzene	0.033	U
100-02-7	4-Nitrophenol	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
83-32-9	Acenaphthene	0.033	U	78-59-1	Isophorone	0.033	U
208-96-8	Acenaphthylene	0.033	U	91-20-3	Naphthalene	0.0083	U
62-53-3	Aniline	0.0083	U	98-95-3	Nitrobenzene	0.033	U
120-12-7	Anthracene	0.033	U	87-86-5	Pentachlorophenol	0.17	U
56-55-3	Benzo[a]anthracene	0.033	U	85-01-8	Phenanthrene	0.033	U
50-32-8	Benzo[a]pyrene	0.033	U	108-95-2	Phenol	0.033	U
205-99-2	Benzo[b]fluoranthene	0.033	U	129-00-0	Pyrene	0.033	U

Worksheet #: 439254

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

7092827 0082

SampleID : SMB63067 Operator : AH/JB Qt Meth : 7M_0911.M
Data File: 7M87029.D Sam Mult : 1 Vial# : 23 Qt On : 10/05/17 09:12
Acq On : 10/ 4/17 17:58 Misc : S,BNA Qt Upd On: 09/11/17 15:53

Data Path : G:\GcMsData\2017\GCMS_7\Data\10-0417\
Qt Path : G:\GCMSDATA\2017\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.652	96	17090	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.879	152	40852	40.00	ng	0.00
31) Naphthalene-d8	6.884	136	165593	40.00	ng	-0.02
50) Acenaphthene-d10	8.321	164	115584	40.00	ng	-0.02
77) Phenanthrene-d10	9.784	188	218795	40.00	ng	-0.01
91) Chrysene-d12	12.840	240	264833	40.00	ng	0.00
103) Perylene-d12	14.470	264	241614	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.699	112	95209	84.67	ng	0.01
Spiked Amount 100.000			Recovery = 84.67%			
16) Phenol-d5	5.575	99	137397	88.61	ng	0.00
Spiked Amount 100.000			Recovery = 88.61%			
32) Nitrobenzene-d5	6.328	128	25712	35.99	ng	0.00
Spiked Amount 50.000			Recovery = 71.98%			
55) 2-Fluorobiphenyl	7.728	172	131837	34.40	ng	-0.02
Spiked Amount 50.000			Recovery = 68.80%			
80) 2,4,6-Tribromophenol	9.063	330	42103	72.35	ng	0.00
Spiked Amount 100.000			Recovery = 72.35%			
94) Terphenyl-d14	11.585	244	166451	42.33	ng	0.00
Spiked Amount 50.000			Recovery = 84.66%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

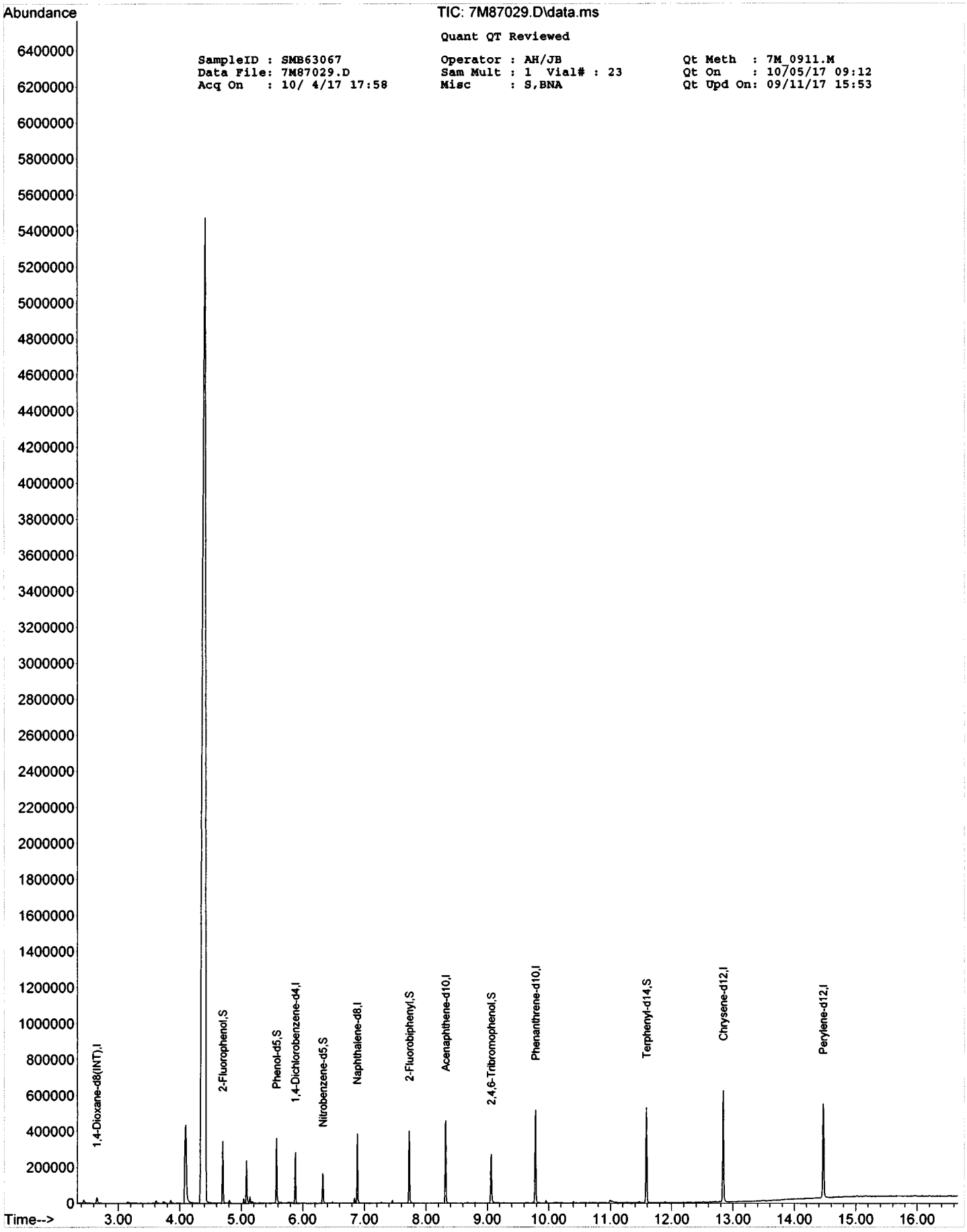
Abundance
TIC: 7M87029.D\data.ms
Quant QT Reviewed
SampleID : SMB63067
Data File: 7M87029.D
Acq On : 10/ 4/17 17:58
Operator : AH/JB
Sam Mult : 1 Vial# : 23
Misc : S,BNA
Qt Meth : 7M_0911.M
Qt On : 10/05/17 09:12
Qt Upd On: 09/11/17 15:53
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8270D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
7M87029.D	SMB63067	S	10/04/17 17:58	1		85	89	72	69	72	85
7M87023.D	AD00298-002(5X)(R)	S	10/04/17 15:12	5		75	75	62	71	64	81
10M65319.D	AD00192-002	S	10/04/17 10:14	1		69	65	69	69	64	79
10M65320.D	AD00192-002(MS)	S	10/04/17 10:36	1		75	70	75	77	70	85
10M65321.D	AD00192-002(MSD)	S	10/04/17 10:58	1		63	60	63	62	67	71
7M86988.D	SMB63050(MS)	S	10/03/17 16:42	1		77	75	77	77	94	88
7M87026.D	SMB63067(MS)	S	10/04/17 16:48	1		96	99	80	80	101	91

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	43-128
S2=Phenol-d5	100	49-129
S3=Nitrobenzene-d5	50	52-129
S4=2-Fluorobiphenyl	50	58-125
S5=2,4,6-Tribromophenol	100	54-145
S6=Terphenyl-d14	50	58-148

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63050

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M86988.D	SMB63050(MS)	10/3/2017 4:42:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	21.3416	0	50	43	1	150
N-Nitrosodimethylamine	1	32.0069	0	50	64	50	130
Benzaldehyde	1	168.6354	0	50	337*	20	150
Aniline	1	16.3428	0	50	33	20	150
Pentachloroethane	1	33.0758	0	50	66	50	130
bis(2-Chloroethyl)ether	1	34.0368	0	50	68	50	130
Phenol	1	67.4203	0	100	67	20	150
2-Chlorophenol	1	79.5835	0	100	80	50	130
N-Decane	1	25.2053	0	50	50	20	130
1,3-Dichlorobenzene	1	37.0572	0	50	74	60	130
1,4-Dichlorobenzene	1	32.921	0	50	66	60	130
1,2-Dichlorobenzene	1	33.2569	0	50	67	50	130
Benzyl alcohol	1	35.4988	0	50	71	20	130
bis(2-chloroisopropyl)ether	1	24.2352	0	50	48	40	130
2-Methylphenol	1	67.301	0	100	67	50	130
Acetophenone	1	33.5584	0	50	67	50	130
Hexachloroethane	1	31.0418	0	50	62	50	130
N-Nitroso-di-n-propylamine	1	30.5864	0	50	61	40	130
3&4-Methylphenol	1	70.619	0	100	71	70	130
Nitrobenzene	1	32.9035	0	50	66*	70	130
Isophorone	1	31.5424	0	50	63	60	130
2-Nitrophenol	1	76.5438	0	100	77	70	130
2,4-Dimethylphenol	1	69.372	0	100	69	50	130
Benzoic Acid	1	20.9231	0	100	21	20	130
bis(2-Chloroethoxy)methane	1	32.938	0	50	66	60	130
2,4-Dichlorophenol	1	79.1435	0	100	79	70	130
1,2,4-Trichlorobenzene	1	38.2419	0	50	76	50	130
Naphthalene	1	36.8148	0	50	74	50	130
4-Chloroaniline	1	14.7205	0	50	29	10	150
Hexachlorobutadiene	1	38.9587	0	50	78	60	130
Caprolactam	1	36.8607	0	50	74	50	130
4-Chloro-3-methylphenol	1	71.0293	0	100	71	50	130
2-Methylnaphthalene	1	37.1061	0	50	74	70	130
1-Methylnaphthalene	1	35.608	0	50	71	70	130
1,1'-Biphenyl	1	32.6442	0	50	65	60	130
1,2,4,5-Tetrachlorobenzene	1	40.2642	0	50	81	70	130
Hexachlorocyclopentadiene	1	9.335	0	50	19*	20	160
2,4,6-Trichlorophenol	1	77.1389	0	100	77	70	130
2,4,5-Trichlorophenol	1	85.6992	0	100	86	70	130
2-Chloronaphthalene	1	38.0423	0	50	76	70	130
1,4-Dimethylnaphthalene	1	33.2807	0	50	67*	70	130
Diphenyl Ether	1	40.382	0	50	81	70	130
2-Nitroaniline	1	37.9763	0	50	76	50	130
Coumarin	1	30.2444	0	50	60*	70	130
Acenaphthylene	1	39.8497	0	50	80	70	130
Dimethylphthalate	1	37.9734	0	50	76	70	130
2,6-Dinitrotoluene	1	40.4598	0	50	81	70	130
Acenaphthene	1	38.6334	0	50	77	50	130
3-Nitroaniline	1	27.3563	0	50	55	10	130
2,4-Dinitrophenol	1	43.3121	0	100	43	20	150
Dibenzofuran	1	39.0418	0	50	78	70	130
2,4-Dinitrotoluene	1	35.1075	0	50	70	40	130
4-Nitrophenol	1	55.3616	0	100	55	20	150
2,3,4,6-Tetrachlorophenol	1	67.3612	0	100	67*	70	130
Fluorene	1	38.6452	0	50	77	50	130
4-Chlorophenyl-phenylether	1	37.6722	0	50	75	70	130
Diethylphthalate	1	38.0735	0	50	76	70	130
4-Nitroaniline	1	33.5186	0	50	67	50	130
Atrazine	1	54.4084	0	50	109	50	130
4,6-Dinitro-2-methylphenol	1	55.5465	0	100	56*	70	130
n-Nitrosodiphenylamine	1	34.7586	0	50	70	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63050

1,2-Diphenylhydrazine	1	35.1154	0	50	70	70	130
4-Bromophenyl-phenylether	1	43.5057	0	50	87	70	130
Hexachlorobenzene	1	42.8388	0	50	86	70	130
N-Octadecane	1	36.4933	0	50	73	70	130
Pentachlorophenol	1	54.0356	0	100	54	40	130
Phenanthrene	1	37.698	0	50	75	70	130
Anthracene	1	37.7846	0	50	76	70	130
Carbazole	1	36.4269	0	50	73	70	130
Di-n-butylphthalate	1	37.8923	0	50	76	70	130
Fluoranthene	1	37.1053	0	50	74	70	130
Pyrene	1	41.3455	0	50	83	50	130
Benzidine	1	4.5485	0	50	9.1	1	130
Butylbenzylphthalate	1	38.5479	0	50	77	50	130
3,3'-Dichlorobenzidine	1	28.8804	0	50	58	10	130
Benzo[a]anthracene	1	37.7711	0	50	76	70	130
Chrysene	1	37.0367	0	50	74	60	130
bis(2-Ethylhexyl)phthalate	1	39.7979	0	50	80	70	130
Di-n-octylphthalate	1	38.5701	0	50	77	70	130
Benzo[b]fluoranthene	1	41.343	0	50	83	70	130
Benzo[k]fluoranthene	1	35.5482	0	50	71	70	130
Benzo[a]pyrene	1	34.9528	0	50	70	70	130
Indeno[1,2,3-cd]pyrene	1	45.33	0	50	91	70	130
Dibenzo[a,h]anthracene	1	44.2942	0	50	89	60	130
Benzo[g,h,i]perylene	1	43.0936	0	50	86	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63067

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M87026.D	SMB63067(MS)	10/4/2017 4:48:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	27.6852	0	50	55	1	150
N-Nitrosodimethylamine	1	36.9587	0	50	74	50	130
Benzaldehyde	1	197.0764	0	50	394*	20	150
Aniline	1	25.9898	0	50	52	20	150
Pentachloroethane	1	37.1931	0	50	74	50	130
bis(2-Chloroethyl)ether	1	41.2106	0	50	82	50	130
Phenol	1	87.9877	0	100	88	20	150
2-Chlorophenol	1	98.6432	0	100	99	50	130
N-Decane	1	28.3078	0	50	57	20	130
1,3-Dichlorobenzene	1	43.1339	0	50	86	60	130
1,4-Dichlorobenzene	1	35.5642	0	50	71	60	130
1,2-Dichlorobenzene	1	35.4298	0	50	71	50	130
Benzyl alcohol	1	40.6696	0	50	81	20	130
bis(2-chloroisopropyl)ether	1	26.9898	0	50	54	40	130
2-Methylphenol	1	78.7206	0	100	79	50	130
Acetophenone	1	35.9083	0	50	72	50	130
Hexachloroethane	1	33.5739	0	50	67	50	130
N-Nitroso-di-n-propylamine	1	34.292	0	50	69	40	130
3&4-Methylphenol	1	83.9791	0	100	84	70	130
Nitrobenzene	1	34.3119	0	50	69*	70	130
Isophorone	1	33.8782	0	50	68	60	130
2-Nitrophenol	1	79.4834	0	100	79	70	130
2,4-Dimethylphenol	1	76.6252	0	100	77	50	130
Benzoic Acid	1	14.8411	0	100	15*	20	130
bis(2-Chloroethoxy)methane	1	34.8591	0	50	70	60	130
2,4-Dichlorophenol	1	85.7291	0	100	86	70	130
1,2,4-Trichlorobenzene	1	38.4001	0	50	77	50	130
Naphthalene	1	38.0644	0	50	76	50	130
4-Chloroaniline	1	31.4522	0	50	63	10	150
Hexachlorobutadiene	1	40.3544	0	50	81	60	130
Caprolactam	1	43.78	0	50	88	50	130
4-Chloro-3-methylphenol	1	80.659	0	100	81	50	130
2-Methylnaphthalene	1	38.8321	0	50	78	70	130
1-Methylnaphthalene	1	36.8443	0	50	74	70	130
1,1'-Biphenyl	1	34.4286	0	50	69	60	130
1,2,4,5-Tetrachlorobenzene	1	38.6971	0	50	77	70	130
Hexachlorocyclopentadiene	1	5.9279	0	50	12*	20	160
2,4,6-Trichlorophenol	1	82.2442	0	100	82	70	130
2,4,5-Trichlorophenol	1	90.9691	0	100	91	70	130
2-Chloronaphthalene	1	38.0268	0	50	76	70	130
1,4-Dimethylnaphthalene	1	32.4388	0	50	65*	70	130
Diphenyl Ether	1	39.2967	0	50	79	70	130
2-Nitroaniline	1	41.0683	0	50	82	50	130
Coumarin	1	33.0124	0	50	66*	70	130
Acenaphthylene	1	41.1968	0	50	82	70	130
Dimethylphthalate	1	41.2	0	50	82	70	130
2,6-Dinitrotoluene	1	44.0035	0	50	88	70	130
Acenaphthene	1	39.8922	0	50	80	50	130
3-Nitroaniline	1	36.3219	0	50	73	10	130
2,4-Dinitrophenol	1	24.2912	0	100	24	20	150
Dibenzofuran	1	41.2626	0	50	83	70	130
2,4-Dinitrotoluene	1	39.5367	0	50	79	40	130
4-Nitrophenol	1	65.0832	0	100	65	20	150
2,3,4,6-Tetrachlorophenol	1	76.331	0	100	76	70	130
Fluorene	1	41.2377	0	50	82	50	130
4-Chlorophenyl-phenylether	1	40.3431	0	50	81	70	130
Diethylphthalate	1	42.7262	0	50	85	70	130
4-Nitroaniline	1	40.2379	0	50	80	50	130
Atrazine	1	62.0752	0	50	124	50	130
4,6-Dinitro-2-methylphenol	1	38.5657	0	100	39*	70	130
n-Nitrosodiphenylamine	1	35.7474	0	50	71	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63067

1,2-Diphenylhydrazine	1	34.9725	0	50	70	70	130
4-Bromophenyl-phenylether	1	42.3703	0	50	85	70	130
Hexachlorobenzene	1	44.1522	0	50	88	70	130
N-Octadecane	1	35.4803	0	50	71	70	130
Pentachlorophenol	1	46.7548	0	100	47	40	130
Phenanthrene	1	39.4792	0	50	79	70	130
Anthracene	1	40.3045	0	50	81	70	130
Carbazole	1	39.0425	0	50	78	70	130
Di-n-butylphthalate	1	41.4142	0	50	83	70	130
Fluoranthene	1	41.9716	0	50	84	70	130
Pyrene	1	41.9414	0	50	84	50	130
Benzidine	1	4.0945	0	50	8.2	1	130
Butylbenzylphthalate	1	40.3143	0	50	81	50	130
3,3'-Dichlorobenzidine	1	33.44	0	50	67	10	130
Benzo[a]anthracene	1	41.1277	0	50	82	70	130
Chrysene	1	39.7914	0	50	80	60	130
bis(2-Ethylhexyl)phthalate	1	41.9914	0	50	84	70	130
Di-n-octylphthalate	1	41.0963	0	50	82	70	130
Benzo[b]fluoranthene	1	46.4548	0	50	93	70	130
Benzo[k]fluoranthene	1	48.3074	0	50	97	70	130
Benzo[a]pyrene	1	37.612	0	50	75	70	130
Indeno[1,2,3-cd]pyrene	1	46.5218	0	50	93	70	130
Dibenzo[a,h]anthracene	1	45.8085	0	50	92	60	130
Benzo[g,h,i]perylene	1	43.9976	0	50	88	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63050

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M65320.D	AD00192-002(MS)	10/4/2017 10:36:00 AM
Non Spike(If applicable):	10M65319.D	AD00192-002	10/4/2017 10:14:00 AM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	23.976	0	50	48	1	150
N-Nitrosodimethylamine	1	38.8938	0	50	78	50	130
Benzaldehyde	1	196.0863	0	50	392*	20	150
Aniline	1	36.8252	0	50	74	20	150
Pentachloroethane	1	33.5301	0	50	67	50	130
bis(2-Chloroethyl)ether	1	36.5408	0	50	73	50	130
N-Decane	1	29.2106	0	50	58	20	130
1,3-Dichlorobenzene	1	37.7069	0	50	75	60	130
1,4-Dichlorobenzene	1	36.604	0	50	73	60	130
1,2-Dichlorobenzene	1	37.116	0	50	74	50	130
Benzyl alcohol	1	22.7423	0	50	45	20	130
bis(2-chloroisopropyl)ether	1	30.614	0	50	61	40	130
Acetophenone	1	37.1195	0	50	74	50	130
Hexachloroethane	1	36.8005	0	50	74	50	130
N-Nitroso-di-n-propylamine	1	35.9766	0	50	72	40	130
Nitrobenzene	1	38.2174	0	50	76	70	130
Isophorone	1	36.2956	0	50	73	60	130
Benzoic Acid	1	33.7762	0	100	34	20	130
bis(2-Chloroethoxy)methane	1	37.4913	0	50	75	60	130
1,2,4-Trichlorobenzene	1	37.2483	0	50	74	50	130
Naphthalene	1	37.6562	0	50	75	50	130
4-Chloroaniline	1	20.8207	0	50	42	10	150
Hexachlorobutadiene	1	37.4395	0	50	75	60	130
Caprolactam	1	34.7538	0	50	70	50	130
2-Methylnaphthalene	1	39.8049	0	50	80	70	130
1-Methylnaphthalene	1	36.159	0	50	72	70	130
1,1'-Biphenyl	1	32.3346	0	50	65	60	130
1,2,4,5-Tetrachlorobenzene	1	38.6796	0	50	77	70	130
Hexachlorocyclopentadiene	1	22.6568	0	50	45	20	160
2-Chloronaphthalene	1	40.7661	0	50	82	70	130
1,4-Dimethylnaphthalene	1	33.3417	0	50	67*	70	130
Diphenyl Ether	1	40.0665	0	50	80	70	130
2-Nitroaniline	1	41.9534	0	50	84	50	130
Coumarin	1	29.9343	0	50	60*	70	130
Acenaphthylene	1	40.5689	0	50	81	70	130
Dimethylphthalate	1	37.7649	0	50	76	70	130
2,6-Dinitrotoluene	1	38.7303	0	50	77	70	130
Acenaphthene	1	39.9672	0	50	80	50	130
3-Nitroaniline	1	37.581	0	50	75	10	130
Dibenzofuran	1	39.9336	0	50	80	70	130
2,4-Dinitrotoluene	1	37.1099	0	50	74	40	130
Fluorene	1	38.2987	0	50	77	50	130
4-Chlorophenyl-phenylether	1	36.7266	0	50	73	70	130
Diethylphthalate	1	39.1037	0	50	78	70	130
4-Nitroaniline	1	36.2324	0	50	72	50	130
Atrazine	1	50.1497	0	50	100	50	130
n-Nitrosodiphenylamine	1	35.3882	0	50	71	50	130
1,2-Diphenylhydrazine	1	42.008	0	50	84	70	130
4-Bromophenyl-phenylether	1	39.0838	0	50	78	70	130
Hexachlorobenzene	1	37.9735	0	50	76	70	130
N-Octadecane	1	41.1796	0	50	82	70	130
Phenanthrene	1	37.4295	0	50	75	70	130
Anthracene	1	38.3569	0	50	77	70	130
Carbazole	1	35.6751	0	50	71	70	130
Di-n-butylphthalate	1	39.6897	0	50	79	70	130
Fluoranthene	1	36.1979	0	50	72	70	130
Pyrene	1	43.5488	0	50	87	50	130
Benzidine	1	2.8332	0	50	5.7	1	130
Butylbenzylphthalate	1	44.0485	0	50	88	50	130
3,3'-Dichlorobenzidine	1	36.9177	0	50	74	10	130
Benzo[a]anthracene	1	39.5341	0	50	79	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63050

Chrysene	1	40.7117	0	50	81	60	130
bis(2-Ethylhexyl)phthalate	1	51.6863	0	50	103	70	130
Di-n-octylphthalate	1	45.6219	0	50	91	70	130
Benzo[b]fluoranthene	1	43.8019	0	50	88	70	130
Benzo[k]fluoranthene	1	39.6632	0	50	79	70	130
Benzo[a]pyrene	1	37.8062	0	50	76	70	130
Indeno[1,2,3-cd]pyrene	1	45.0624	0	50	90	70	130
Dibenzo[a,h]anthracene	1	43.711	0	50	87	60	130
Benzo[g,h,i]perylene	1	40.6352	0	50	81	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63050

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M65321.D	AD00192-002(MSD)	10/4/2017 10:58:00 AM
Non Spike(If applicable):	10M65319.D	AD00192-002	10/4/2017 10:14:00 AM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	16.9002	0	50	34	1	150
N-Nitrosodimethylamine	1	30.2766	0	50	61	50	130
Benzaldehyde	1	154.6572	0	50	309*	20	150
Aniline	1	25.5507	0	50	51	20	150
Pentachloroethane	1	26.6588	0	50	53	50	130
bis(2-Chloroethyl)ether	1	29.2281	0	50	58	50	130
N-Decane	1	21.9958	0	50	44	20	130
1,3-Dichlorobenzene	1	29.8352	0	50	60	60	130
1,4-Dichlorobenzene	1	28.5361	0	50	57*	60	130
1,2-Dichlorobenzene	1	30.019	0	50	60	50	130
Benzyl alcohol	1	18.4885	0	50	37	20	130
bis(2-chloroisopropyl)ether	1	25.9249	0	50	52	40	130
Acetophenone	1	32.3165	0	50	65	50	130
Hexachloroethane	1	29.5268	0	50	59	50	130
N-Nitroso-di-n-propylamine	1	31.5149	0	50	63	40	130
Nitrobenzene	1	32.4802	0	50	65*	70	130
Isophorone	1	31.3054	0	50	63	60	130
Benzoic Acid	1	31.6089	0	100	32	20	130
bis(2-Chloroethoxy)methane	1	32.3697	0	50	65	60	130
1,2,4-Trichlorobenzene	1	31.7084	0	50	63	50	130
Naphthalene	1	31.5364	0	50	63	50	130
4-Chloroaniline	1	17.7385	0	50	35	10	150
Hexachlorobutadiene	1	31.0968	0	50	62	60	130
Caprolactam	1	31.7415	0	50	63	50	130
2-Methylnaphthalene	1	33.4525	0	50	67*	70	130
1-Methylnaphthalene	1	29.991	0	50	60*	70	130
1,1'-Biphenyl	1	27.8371	0	50	56*	60	130
1,2,4,5-Tetrachlorobenzene	1	32.3682	0	50	65*	70	130
Hexachlorocyclopentadiene	1	16.7664	0	50	34	20	160
2-Chloronaphthalene	1	32.5325	0	50	65*	70	130
1,4-Dimethylnaphthalene	1	27.7725	0	50	56*	70	130
Diphenyl Ether	1	32.432	0	50	65*	70	130
2-Nitroaniline	1	35.0531	0	50	70	50	130
Coumarin	1	25.8098	0	50	52*	70	130
Acenaphthylene	1	34.7987	0	50	70	70	130
Dimethylphthalate	1	32.6059	0	50	65*	70	130
2,6-Dinitrotoluene	1	32.9958	0	50	66*	70	130
Acenaphthene	1	33.2576	0	50	67	50	130
3-Nitroaniline	1	31.5136	0	50	63*	70	130
Dibenzofuran	1	34.2244	0	50	68*	70	130
2,4-Dinitrotoluene	1	32.4474	0	50	65	40	130
Fluorene	1	33.4713	0	50	67	50	130
4-Chlorophenyl-phenylether	1	32.4091	0	50	65*	70	130
Diethylphthalate	1	33.2411	0	50	66*	70	130
4-Nitroaniline	1	31.0631	0	50	62	50	130
Atrazine	1	44.3305	0	50	89	50	130
n-Nitrosodiphenylamine	1	31.9087	0	50	64	50	130
1,2-Diphenylhydrazine	1	38.2866	0	50	77	70	130
4-Bromophenyl-phenylether	1	34.494	0	50	69*	70	130
Hexachlorobenzene	1	35.3516	0	50	71	70	130
N-Octadecane	1	37.9436	0	50	76	70	130
Phenanthrene	1	33.7033	0	50	67*	70	130
Anthracene	1	32.975	0	50	66*	70	130
Carbazole	1	32.1721	0	50	64*	70	130
Di-n-butylphthalate	1	36.4139	0	50	73	70	130
Fluoranthene	1	34.5143	0	50	69*	70	130
Pyrene	1	41.5287	0	50	83	50	130
Benzidine	1	0	0	50	0*	1	130
Butylbenzylphthalate	1	38.9847	0	50	78	50	130
3,3'-Dichlorobenzidine	1	31.5403	0	50	63	10	130
Benzo[a]anthracene	1	35.2053	0	50	70	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63050

Chrysene	1	34.5529	0	50	69	60	130
bis(2-Ethylhexyl)phthalate	1	43.4302	0	50	87	70	130
Di-n-octylphthalate	1	38.3515	0	50	77	70	130
Benzo[b]fluoranthene	1	39.6434	0	50	79	70	130
Benzo[k]fluoranthene	1	34.212	0	50	68 *	70	130
Benzo[a]pyrene	1	31.5291	0	50	63 *	70	130
Indeno[1,2,3-cd]pyrene	1	40.6191	0	50	81	70	130
Dibenzo[a,h]anthracene	1	37.9492	0	50	76	60	130
Benzo[g,h,i]perylene	1	35.1535	0	50	70	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: SMB63050

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M65321.D	AD00192-002(MSD)	10/4/2017 10:58:00 AM
Duplicate(If applicable):	10M65320.D	AD00192-002(MS)	10/4/2017 10:36:00 AM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Pyridine	1	16.9002	23.976	35*	30
N-Nitrosodimethylamine	1	30.2766	38.8938	25	30
Benzaldehyde	1	154.6572	196.0863	24	30
Aniline	1	25.5507	36.8252	36*	30
Pentachloroethane	1	26.6588	33.5301	23	30
bis(2-Chloroethyl)ether	1	29.2281	36.5408	22	30
N-Decane	1	21.9958	29.2106	28	30
1,3-Dichlorobenzene	1	29.8352	37.7069	23	30
1,4-Dichlorobenzene	1	28.5361	36.604	25	40
1,2-Dichlorobenzene	1	30.019	37.116	21	30
Benzyl alcohol	1	18.4885	22.7423	21	30
bis(2-chloroisopropyl)ether	1	25.9249	30.614	17	30
Acetophenone	1	32.3165	37.1195	14	30
Hexachloroethane	1	29.5268	36.8005	22	30
N-Nitroso-di-n-propylamine	1	31.5149	35.9766	13	40
Nitrobenzene	1	32.4802	38.2174	16	30
Isophorone	1	31.3054	36.2956	15	30
Benzoic Acid	1	31.6089	33.7762	6.6	30
bis(2-Chloroethoxy)methane	1	32.3697	37.4913	15	30
1,2,4-Trichlorobenzene	1	31.7084	37.2483	16	40
Naphthalene	1	31.5364	37.6562	18	40
4-Chloroaniline	1	17.7385	20.8207	16	30
Hexachlorobutadiene	1	31.0968	37.4395	19	30
Caprolactam	1	31.7415	34.7538	9.1	30
2-Methylnaphthalene	1	33.4525	39.8049	17	30
1-Methylnaphthalene	1	29.991	36.159	19	30
1,1'-Biphenyl	1	27.8371	32.3346	15	30
1,2,4,5-Tetrachlorobenzene	1	32.3682	38.6796	18	30
Hexachlorocyclopentadiene	1	16.7664	22.6568	30	30
2-Chloronaphthalene	1	32.5325	40.7661	22	30
1,4-Dimethylnaphthalene	1	27.7725	33.3417	18	30
Diphenyl Ether	1	32.432	40.0665	21	30
2-Nitroaniline	1	35.0531	41.9534	18	30
Coumarin	1	25.8098	29.9343	15	30
Acenaphthylene	1	34.7987	40.5689	15	30
Dimethylphthalate	1	32.6059	37.7649	15	30
2,6-Dinitrotoluene	1	32.9958	38.7303	16	30
Acenaphthene	1	33.2576	39.9672	18	40
3-Nitroaniline	1	31.5136	37.581	18	30
Dibenzofuran	1	34.2244	39.9336	15	30
2,4-Dinitrotoluene	1	32.4474	37.1099	13	40
Fluorene	1	33.4713	38.2987	13	40
4-Chlorophenyl-phenylether	1	32.4091	36.7266	12	30
Diethylphthalate	1	33.2411	39.1037	16	30
4-Nitroaniline	1	31.0631	36.2324	15	30
Atrazine	1	44.3305	50.1497	12	30
n-Nitrosodiphenylamine	1	31.9087	35.3882	10	30
1,2-Diphenylhydrazine	1	38.2866	42.008	9.3	30
4-Bromophenyl-phenylether	1	34.494	39.0838	12	30
Hexachlorobenzene	1	35.3516	37.9735	7.2	30
N-Octadecane	1	37.9436	41.1796	8.2	30
Phenanthrene	1	33.7033	37.4295	10	30
Anthracene	1	32.975	38.3569	15	30
Carbazole	1	32.1721	35.6751	10	30
Di-n-butylphthalate	1	36.4139	39.6897	8.6	30
Fluoranthene	1	34.5143	36.1979	4.8	30
Pyrene	1	41.5287	43.5488	4.7	40
Benzidine	1	0	2.8332	200*	30
Butylbenzylphthalate	1	38.9847	44.0485	12	40
3,3'-Dichlorobenzidine	1	31.5403	36.9177	16	30
Benzo[a]anthracene	1	35.2053	39.5341	12	30
Chrysene	1	34.5529	40.7117	16	30
bis(2-Ethylhexyl)phthalate	1	43.4302	51.6863	17	30

Form3
RPD Data Laboratory Limits
QC Batch: SMB63050

Di-n-octylphthalate	1	38.3515	45.6219	17	30
Benzo[b]fluoranthene	1	39.6434	43.8019	10	30
Benzo[k]fluoranthene	1	34.212	39.6632	15	30
Benzo[a]pyrene	1	31.5291	37.8062	18	30
Indeno[1,2,3-cd]pyrene	1	40.6191	45.0624	10	30
Dibenzo[a,h]anthracene	1	37.9492	43.711	14	30
Benzo[g,h,i]perylene	1	35.1535	40.6352	14	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: SMB63050
Blank Data File: 10M65317.D
Matrix: Soil

Blank Analysis Date: 10/04/17 09:29
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8270D

Sample Number	Data File	Analysis Date
SMB63050(MS)	7M86988.D	10/03/17 16:42
AD00192-002(MSD	10M65321.D	10/04/17 10:58
AD00192-002(MS)	10M65320.D	10/04/17 10:36
AD00192-002	10M65319.D	10/04/17 10:14

FORM 4
Blank Summary

Blank Number: SMB63067
Blank Data File: 7M87029.D
Matrix: Soil

Blank Analysis Date: 10/04/17 17:58
Blank Extraction Date: 10/04/17
(If Applicable)
Method: EPA 8270D

Sample Number	Data File	Analysis Date
AD00298-002(5X)(	7M87023.D	10/04/17 15:12
SMB63067(MS)	7M87026.D	10/04/17 16:48

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10

Data File: 10M64974.D
Analysis Date: 09/11/17 08:41
Method: EPA 8270D

Tune Scan/Time Range: Scan 1444

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	31.8	25200	PASS
68	69	0.00	2	1.7	488	PASS
69	198	0.00	100	36.5	28856	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	47.0	37192	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	79128	PASS
199	198	5	9	7.1	5647	PASS
275	198	10	30	26.4	20928	PASS
365	198	1	100	3.3	2636	PASS
441	443	0.01	100	73.4	7335	PASS
442	198	40	100	59.3	46936	PASS
443	442	17	23	21.3	9998	PASS

Data File	Sample Number	Analysis Date:
10M64975.D	CAL BNA@10PPM	09/11/17 09:07
10M64976.D	CAL BNA@196PP	09/11/17 09:32
10M64977.D	CAL BNA@160PP	09/11/17 09:55
10M64978.D	CAL BNA@120PP	09/11/17 10:17
10M64979.D	CAL BNA@80PPM	09/11/17 10:39
10M64980.D	CAL BNA@50PPM	09/11/17 11:01
10M64981.D	CAL BNA@20PPM	09/11/17 11:23
10M64982.D	CAL BNA@2PPM	09/11/17 11:46
10M64983.D	CAL BNA@.5PPM	09/11/17 12:08
10M64984.D	CAL BNA@.25PP	09/11/17 12:30
10M64985.D	CAL BNA@50PPM	09/11/17 12:53
10M64986.D	ICV BNA@50PPM	09/11/17 13:15
10M64987.D	EXT MIX#1	09/11/17 14:09
10M64988.D	EXT MIX#1(2ND)	09/11/17 14:31

Data Path : G:\GcMsData\2017\GCMS_10\Data\09-11-17\
Data File : 10M64974.D
Acq On : 11 Sep 2017 8:41
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2017\GCMS_10\METHODQT\10M_0808.M
Title : @GCMS_10,mg,625,8270
Last Update : Mon Sep 11 13:08:39 2017

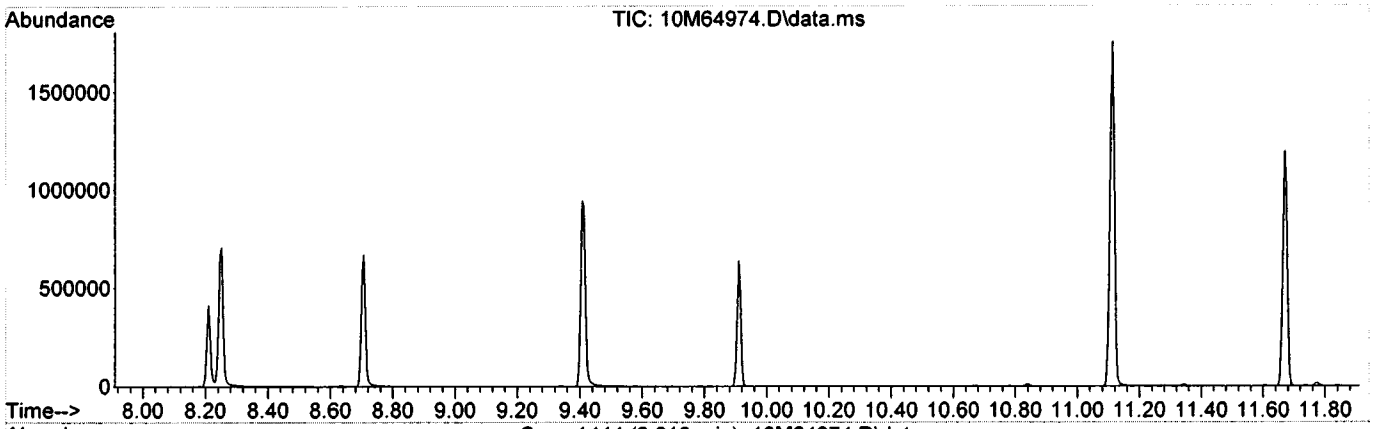

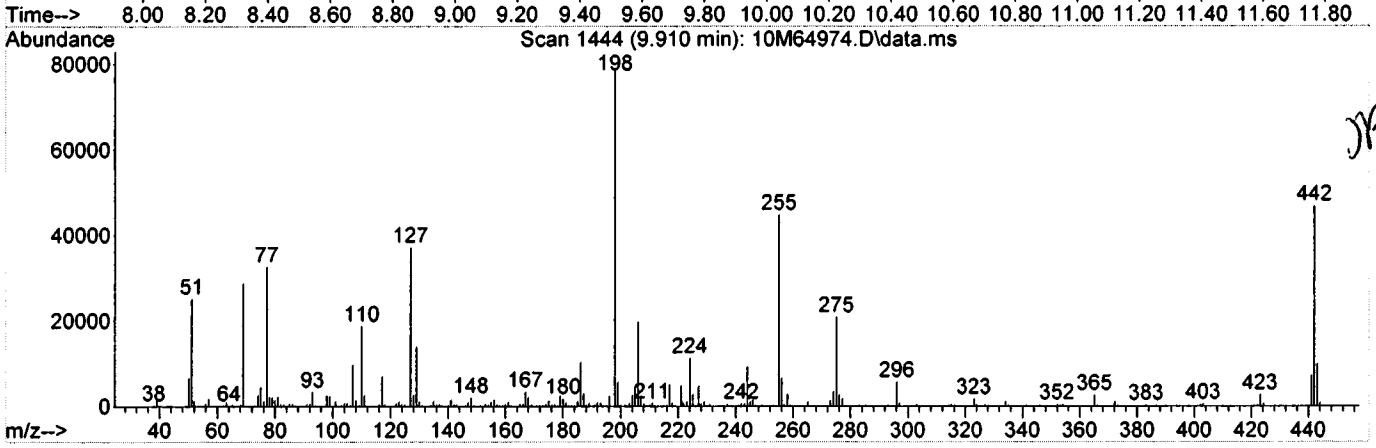

Spectrum Information: Scan 1444

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.8	25200	PASS
68	69	0.00	2	1.7	488	PASS
69	198	0.00	100	36.5	28856	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	47.0	37192	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	79128	PASS
199	198	5	9	7.1	5647	PASS
275	198	10	30	26.4	20928	PASS
365	198	1	100	3.3	2636	PASS
441	443	0.01	100	73.4	7335	PASS
442	198	40	100	59.3	46936	PASS
443	442	17	23	21.3	9998	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7

Data File: 7M86401.D
Analysis Date: 09/11/17 08:45
Method: EPA 8270D

Tune Scan/Time Range: Scan 1452

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	35.7	69000	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.8	84784	PASS
70	69	0.00	2	0.7	582	PASS
127	198	40	60	49.3	95416	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	193472	PASS
199	198	5	9	6.9	13323	PASS
275	198	10	30	25.7	49744	PASS
365	198	1	100	3.0	5758	PASS
441	443	0.01	100	78.3	17192	PASS
442	198	40	100	60.0	116064	PASS
443	442	17	23	18.9	21968	PASS

Data File	Sample Number	Analysis Date:
7M86402.D	CAL BNA@10PPM	09/11/17 09:11
7M86403.D	CAL BNA@10PPM	09/11/17 11:02
7M86404.D	CAL BNA@196PP	09/11/17 11:25
7M86405.D	CAL BNA@160PP	09/11/17 11:49
7M86406.D	CAL BNA@120PP	09/11/17 12:12
7M86407.D	CAL BNA@80PPM	09/11/17 12:35
7M86408.D	CAL BNA@10PPM	09/11/17 12:59
7M86409.D	CAL BNA@50PPM	09/11/17 13:22
7M86410.D	CAL BNA@20PPM	09/11/17 13:46
7M86411.D	CAL BNA@2PPM	09/11/17 14:09
7M86412.D	CAL BNA@.25PP	09/11/17 14:41
7M86413.D	CAL BNA@.5PPM	09/11/17 15:05
7M86414.D	ICV BNA@50PPM	09/11/17 15:30

7092827 0100

Data Path : G:\GcMsData\2017\GCMS_7\Data\09-11-17\
Data File : 7M86401.D
Acq On : 11 Sep 2017 8:45
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2017\GCMS_7\METHODQT\7M_0807.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Aug 14 13:34:47 2017

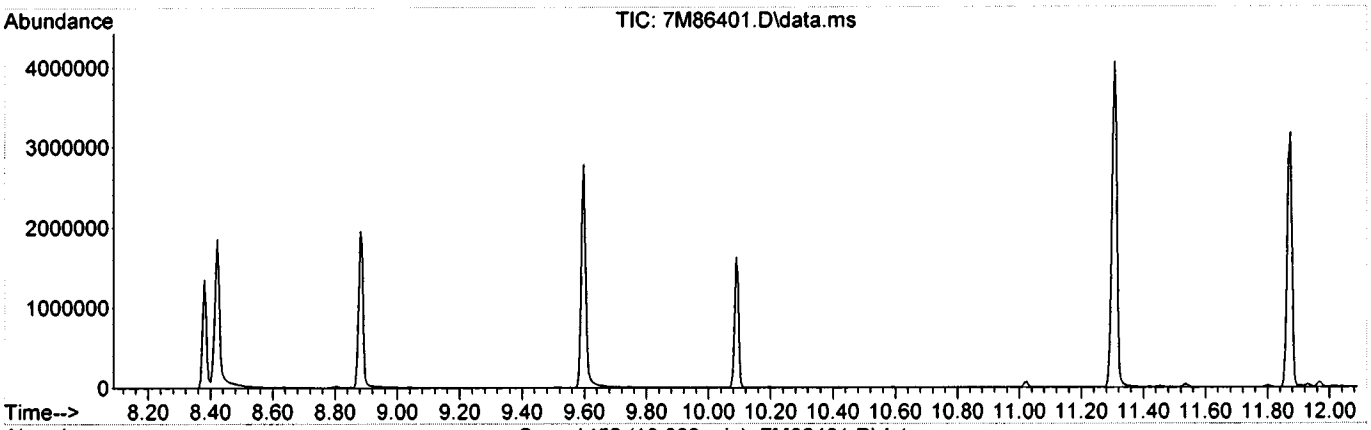

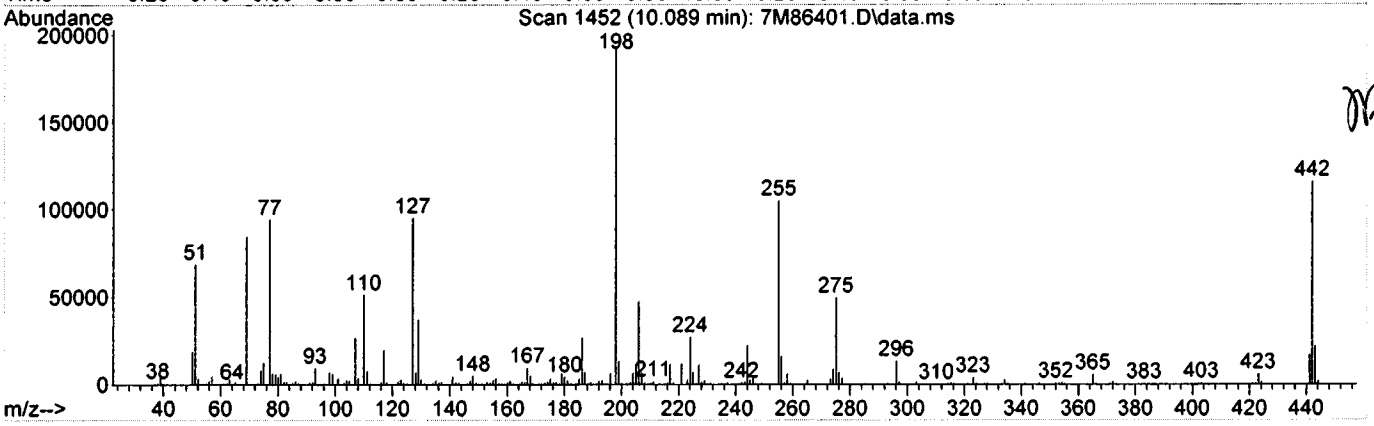

Spectrum Information: Scan 1452

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.7	69000	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.8	84784	PASS
70	69	0.00	2	0.7	582	PASS
127	198	40	60	49.3	95416	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	193472	PASS
199	198	5	9	6.9	13323	PASS
275	198	10	30	25.7	49744	PASS
365	198	1	100	3.0	5758	PASS
441	443	0.01	100	78.3	17192	PASS
442	198	40	100	60.0	116064	PASS
443	442	17	23	18.9	21968	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7

Data File: 7M86985.D
Analysis Date: 10/03/17 15:07
Method: EPA 8270D

Tune Scan/Time Range: Average of 10.073 to 10.073 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	33.6	33664	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.4	40568	PASS
70	69	0.00	2	0.9	372	PASS
127	198	40	60	46.8	46936	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	100336	PASS
199	198	5	9	6.7	6715	PASS
275	198	10	30	26.5	26616	PASS
365	198	1	100	2.7	2728	PASS
441	443	0.01	100	68.4	11067	PASS
442	198	40	100	75.2	75432	PASS
443	442	17	23	21.4	16179	PASS

Data File	Sample Number	Analysis Date:
7M86986.D	CAL BNA@50PPM	10/03/17 15:31
7M86987.D	AD00319-002(3X)	10/03/17 16:19
7M86988.D	SMB63050(MS)	10/03/17 16:42
7M86989.D	SMB63051(MS)	10/03/17 17:06
7M86990.D	SMB63050	10/03/17 17:29
7M86991.D	SMB63051	10/03/17 17:53
7M86992.D	AD00275-021(R)	10/03/17 18:16
7M86993.D	AD00298-002(5X)	10/03/17 18:39
7M86994.D	AD00316-026(3X)	10/03/17 19:03
7M86995.D	AD00275-006(3X)	10/03/17 19:26
7M86996.D	AD00275-015(3X)	10/03/17 19:50
7M86997.D	AD00275-025(3X)	10/03/17 20:13
7M86998.D	AD00275-016	10/03/17 20:36
7M86999.D	AD00275-017	10/03/17 21:00
7M87000.D	AD00275-018	10/03/17 21:23
7M87001.D	AD00275-019	10/03/17 21:46
7M87002.D	AD00275-020	10/03/17 22:09
7M87003.D	AD00275-022	10/03/17 22:33
7M87004.D	AD00275-023	10/03/17 22:56
7M87005.D	AD00275-024	10/03/17 23:19
7M87006.D	AD00275-026	10/03/17 23:42

Data Path : G:\GcMsData\2017\GCMS_7\Data\10-0317\
Data File : 7M86985.D
Acq On : 3 Oct 2017 15:07
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2017\GCMS_7\METHODQT\7M_0911.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Sep 11 15:43:33 2017

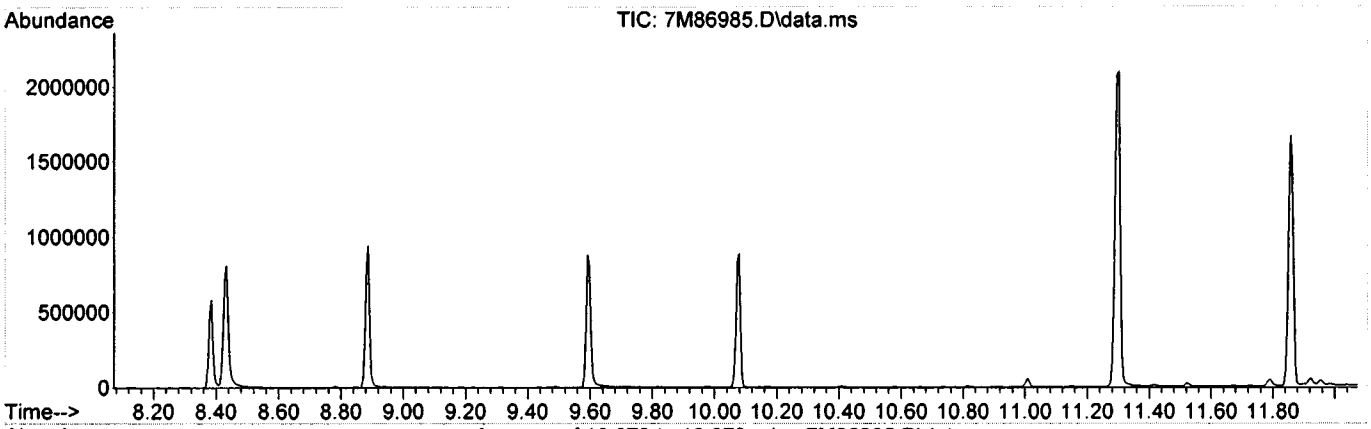

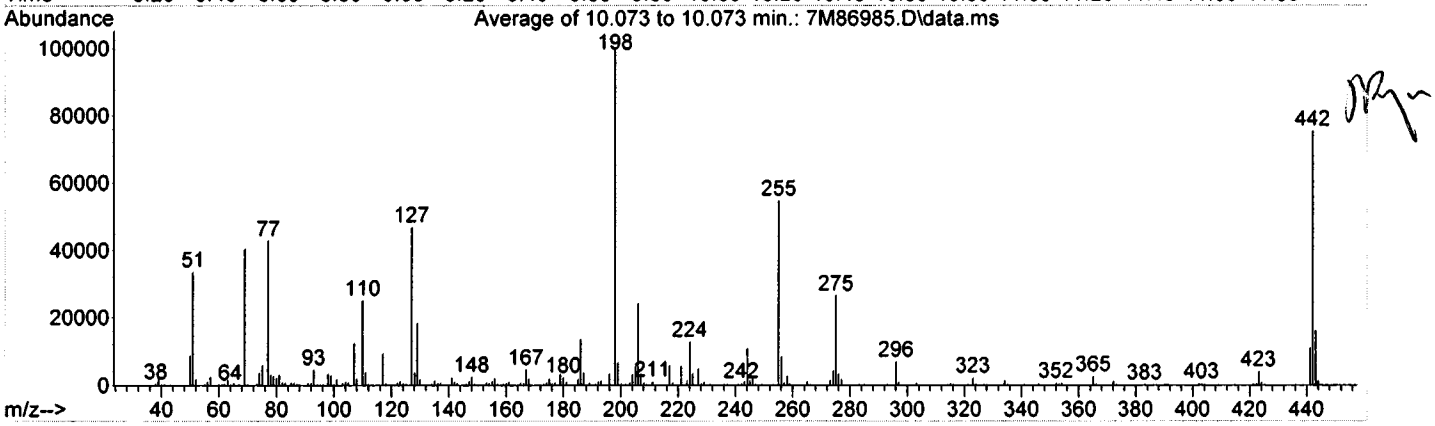

Spectrum Information: Average of 10.073 to 10.073 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	33.6	33664	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.4	40568	PASS
70	69	0.00	2	0.9	372	PASS
127	198	40	60	46.8	46936	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	100336	PASS
199	198	5	9	6.7	6715	PASS
275	198	10	30	26.5	26616	PASS
365	198	1	100	2.7	2728	PASS
441	443	0.01	100	68.4	11067	PASS
442	198	40	100	75.2	75432	PASS
443	442	17	23	21.4	16179	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10

Data File: 10M65315.D
Analysis Date: 10/04/17 08:26
Method: EPA 8270D

Tune Scan/Time Range: Average of 9.894 to 9.905 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.2	27936	PASS
68	69	0.00	2	1.0	314	PASS
69	198	0.00	100	40.4	30369	PASS
70	69	0.00	2	0.2	61	PASS
127	198	40	60	50.1	37684	PASS
197	198	0.00	1	0.3	257	PASS
198	198	100	100	100.0	75181	PASS
199	198	5	9	6.9	5223	PASS
275	198	10	30	24.8	18661	PASS
365	198	1	100	3.2	2372	PASS
441	443	0.01	100	73.8	5998	PASS
442	198	40	100	53.9	40543	PASS
443	442	17	23	20.1	8130	PASS

Data File	Sample Number	Analysis Date:
10M65316.D	CAL BNA@50PPM	10/04/17 08:55
10M65317.D	SMB63050	10/04/17 09:29
10M65318.D	TEST63051	10/04/17 09:52
10M65319.D	AD00192-002	10/04/17 10:14
10M65320.D	AD00192-002(MS)	10/04/17 10:36
10M65321.D	AD00192-002(MSD	10/04/17 10:58
10M65322.D	AD00192-005	10/04/17 11:20
10M65323.D	AD00290-002	10/04/17 11:43
10M65324.D	AD00290-004	10/04/17 12:05
10M65325.D	AD00290-006	10/04/17 12:27
10M65326.D	AD00290-008	10/04/17 12:49
10M65327.D	AD00290-010	10/04/17 13:11
10M65328.D	AD00290-012	10/04/17 13:34
10M65329.D	AD00290-014	10/04/17 13:56
10M65330.D	SMB63051	10/04/17 14:18
10M65331.D	WMB63064	10/04/17 14:41
10M65332.D	AD00333-001	10/04/17 15:44
10M65333.D	AD00333-003	10/04/17 16:06
10M65334.D	AD00346-025	10/04/17 16:29
10M65335.D	AD00354-001	10/04/17 16:51
10M65336.D	AD00354-002	10/04/17 17:13
10M65337.D	AD00354-003	10/04/17 17:35
10M65338.D	AD00354-004	10/04/17 17:57
10M65339.D	AD00354-005	10/04/17 18:20

Data Path : G:\GcMsData\2017\GCMS_10\Data\10-04-17\
Data File : 10M65315.D
Acq On : 4 Oct 2017 8:26
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2017\GCMS_10\METHODQT\10M_0911.M
Title : @GCMS_10,mg,625,8270
Last Update : Mon Sep 11 13:11:29 2017

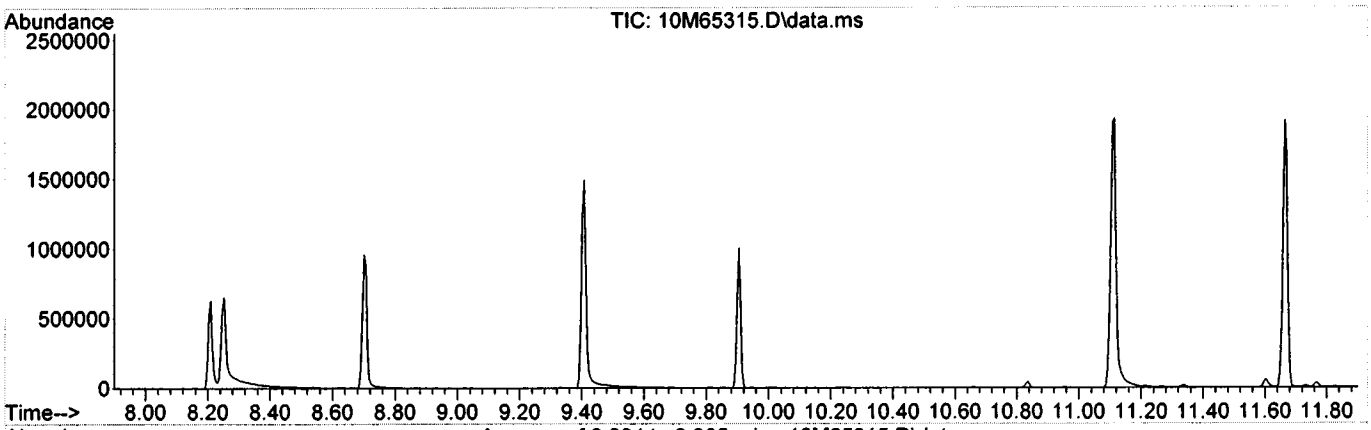

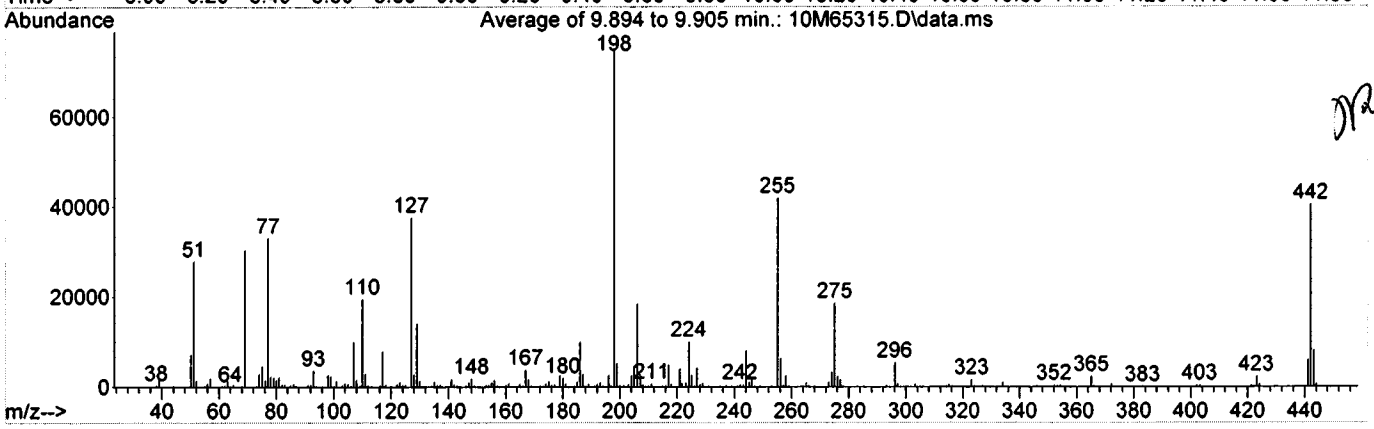

Spectrum Information: Average of 9.894 to 9.905 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.2	27936	PASS
68	69	0.00	2	1.0	314	PASS
69	198	0.00	100	40.4	30369	PASS
70	69	0.00	2	0.2	61	PASS
127	198	40	60	50.1	37684	PASS
197	198	0.00	1	0.3	257	PASS
198	198	100	100	100.0	75181	PASS
199	198	5	9	6.9	5223	PASS
275	198	10	30	24.8	18661	PASS
365	198	1	100	3.2	2372	PASS
441	443	0.01	100	73.8	5998	PASS
442	198	40	100	53.9	40543	PASS
443	442	17	23	20.1	8130	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7

Data File: 7M87007.D
Analysis Date: 10/04/17 08:28
Method: EPA 8270D

Tune Scan/Time Range: Average of 10.057 to 10.067 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.5	17679	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.7	20608	PASS
70	69	0.00	2	0.6	131	PASS
127	198	40	60	48.9	23063	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	47194	PASS
199	198	5	9	6.9	3262	PASS
275	198	10	30	27.1	12776	PASS
365	198	1	100	2.7	1289	PASS
441	443	0.01	100	79.0	5233	PASS
442	198	40	100	71.0	33524	PASS
443	442	17	23	19.8	6625	PASS

Data File	Sample Number	Analysis Date:
7M87008.D	CAL BNA@50PPM	10/04/17 08:55
7M87009.D	AD00361-027	10/04/17 09:46
7M87010.D	AD00361-029	10/04/17 10:09
7M87011.D	AD00356-001(5X)(	10/04/17 10:33
7M87012.D	AD00350-001	10/04/17 10:56
7M87013.D	AD00275-035	10/04/17 11:19
7M87014.D	AD00286-001(5X)	10/04/17 11:43
7M87015.D	AD00356-001(5X)	10/04/17 12:06
7M87016.D	AD00356-001(5X)(	10/04/17 12:29
7M87017.D	AD00361-020(5X)	10/04/17 12:52
7M87018.D	AD00361-021(5X)	10/04/17 13:16
7M87019.D	AD00361-022(5X)	10/04/17 13:39
7M87020.D	AD00361-023(5X)	10/04/17 14:02
7M87021.D	AD00361-024(5X)	10/04/17 14:25
7M87022.D	AD00361-025(5X)	10/04/17 14:49
7M87023.D	AD00298-002(5X)(	10/04/17 15:12

Data Path : G:\GcMsData\2017\GCMS_7\Data\10-04-17\
Data File : 7M87007.D
Acq On : 4 Oct 2017 8:28
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2017\GCMS_7\METHODQT\7M_0911.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Sep 11 15:43:33 2017

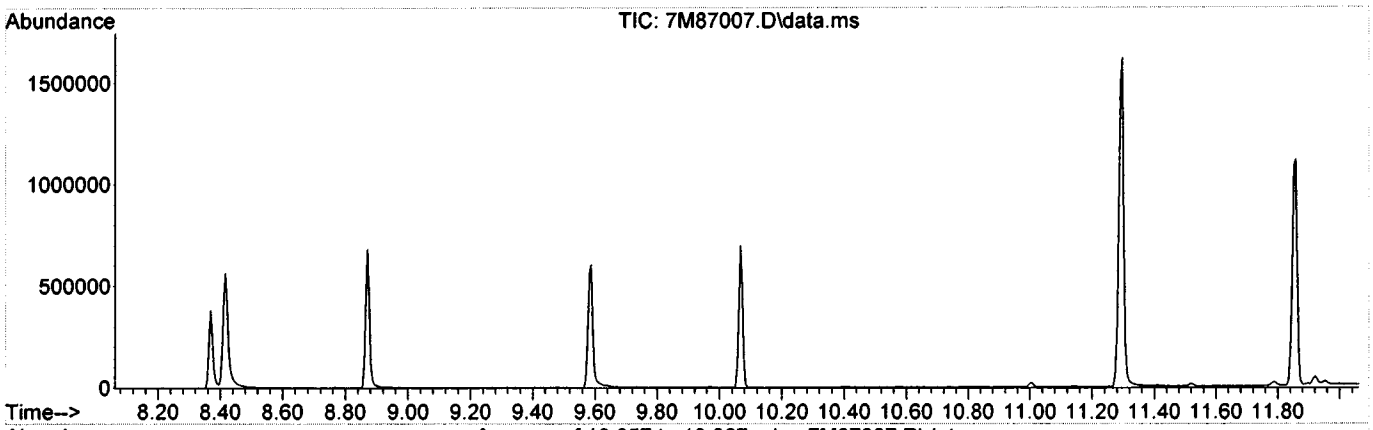

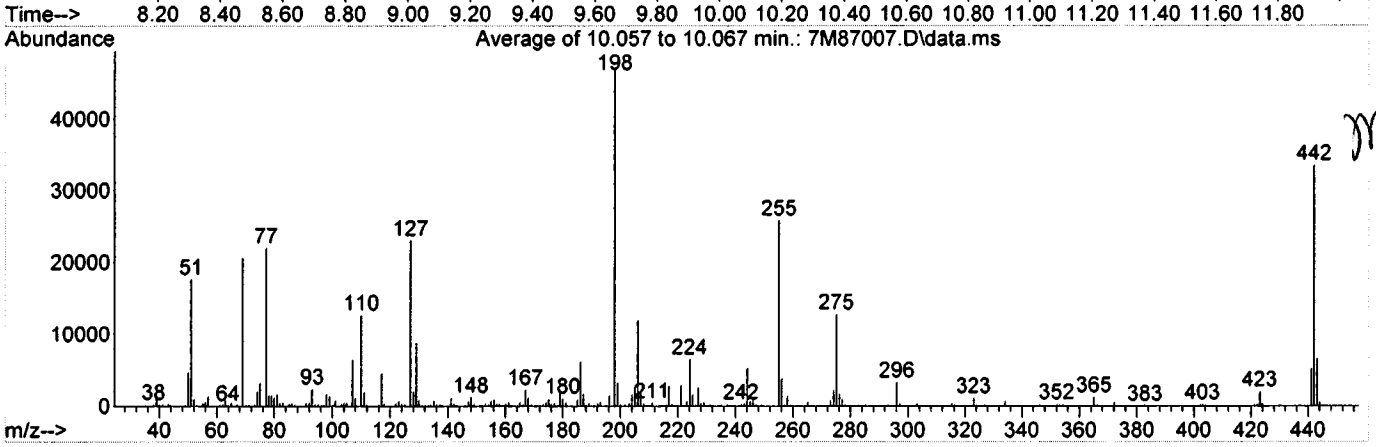

Spectrum Information: Average of 10.057 to 10.067 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.5	17679	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.7	20608	PASS
70	69	0.00	2	0.6	131	PASS
127	198	40	60	48.9	23063	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	47194	PASS
199	198	5	9	6.9	3262	PASS
275	198	10	30	27.1	12776	PASS
365	198	1	100	2.7	1289	PASS
441	443	0.01	100	79.0	5233	PASS
442	198	40	100	71.0	33524	PASS
443	442	17	23	19.8	6625	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7

Data File: 7M87024.D
Analysis Date: 10/04/17 15:50
Method: EPA 8270D

Tune Scan/Time Range: Average of 10.062 to 10.068 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	33.1	22476	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.1	26524	PASS
70	69	0.00	2	0.5	125	PASS
127	198	40	60	47.2	31996	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	67828	PASS
199	198	5	9	6.6	4478	PASS
275	198	10	30	29.0	19644	PASS
365	198	1	100	3.4	2288	PASS
441	443	0.01	100	80.7	9113	PASS
442	198	40	100	87.0	58984	PASS
443	442	17	23	19.1	11290	PASS

Data File	Sample Number	Analysis Date:
7M87025.D	CAL BNA@50PPM	10/04/17 16:13
7M87026.D	SMB63067(MS)	10/04/17 16:48
7M87027.D	SMB63071(MS)	10/04/17 17:11
7M87028.D	SMB63071	10/04/17 17:35
7M87029.D	SMB63067	10/04/17 17:58
7M87030.D	AD00346-004	10/04/17 18:22
7M87031.D	AD00346-004(MS)	10/04/17 18:45
7M87032.D	AD00346-004(MSD	10/04/17 19:09
7M87033.D	AD00172-001	10/04/17 19:32
7M87034.D	AD00172-001(MS)	10/04/17 19:55
7M87035.D	AD00172-001(MSD	10/04/17 20:19
7M87036.D	AD00374-002	10/04/17 20:42
7M87037.D	AD00361-026(5X)	10/04/17 21:05
7M87038.D	AD00361-028(5X)	10/04/17 21:29
7M87039.D	AD00361-023(3X)	10/04/17 21:52
7M87040.D	AD00275-030(3X)	10/04/17 22:15
7M87041.D	AD00275-027(3X)	10/04/17 22:38
7M87042.D	AD00275-028	10/04/17 23:01
7M87043.D	AD00275-029	10/04/17 23:25
7M87044.D	AD00275-031	10/04/17 23:48
7M87045.D	AD00275-032	10/05/17 00:11
7M87046.D	AD00275-033	10/05/17 00:35
7M87047.D	AD00275-034	10/05/17 00:58
7M87048.D	AD00286-001(3X)	10/05/17 01:21

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Data Path : G:\GcMsData\2017\GCMS_7\Data\10-0417\
Data File : 7M87024.D
Acq On : 4 Oct 2017 15:50
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2017\GCMS_7\METHODQT\7M_0911.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Sep 11 15:43:33 2017

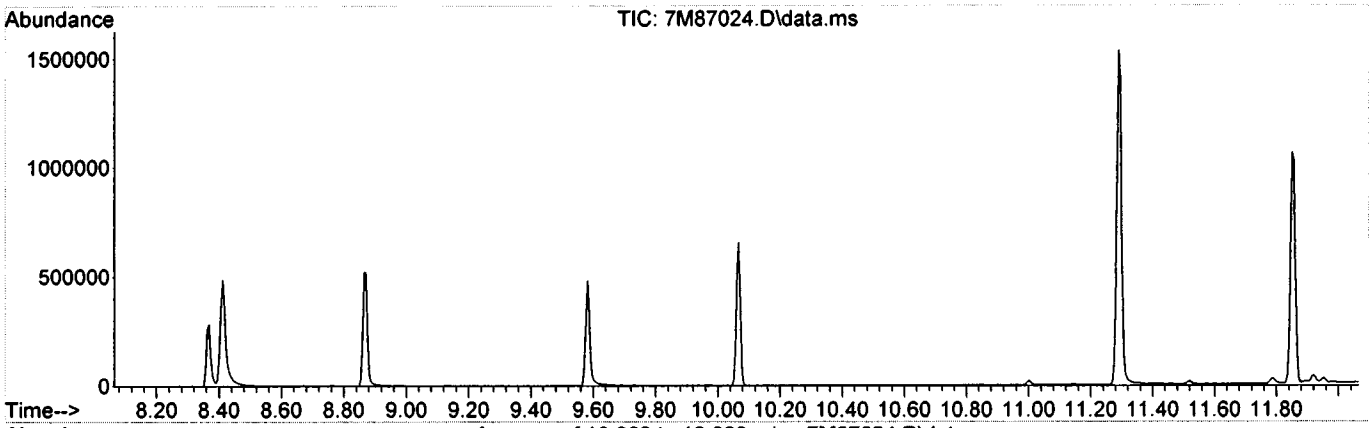

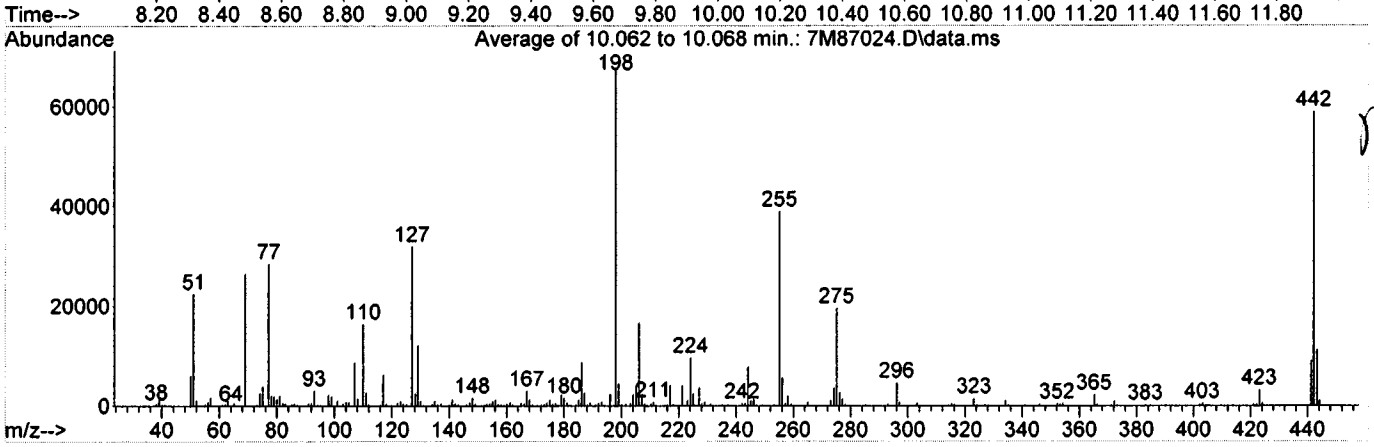

Spectrum Information: Average of 10.062 to 10.068 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	33.1	22476	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.1	26524	PASS
70	69	0.00	2	0.5	125	PASS
127	198	40	60	47.2	31996	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	67828	PASS
199	198	5	9	6.6	4478	PASS
275	198	10	30	29.0	19644	PASS
365	198	1	100	3.4	2288	PASS
441	443	0.01	100	80.7	9113	PASS
442	198	40	100	87.0	58984	PASS
443	442	17	23	19.1	11290	PASS

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Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M64985.D	CAL BNA@50PPM	09/11/17 12:53	2	10M64982.D	CAL BNA@2PPM	09/11/17 11:46
3	10M64975.D	CAL BNA@10PPM	09/11/17 09:07	4	10M64981.D	CAL BNA@20PPM	09/11/17 11:23
5	10M64979.D	CAL BNA@80PPM	09/11/17 10:39	6	10M64978.D	CAL BNA@120PPM	09/11/17 10:17
7	10M64977.D	CAL BNA@160PPM	09/11/17 09:55	8	10M64976.D	CAL BNA@196PPM	09/11/17 09:32
9	10M64983.D	CAL BNA@.5PPM	09/11/17 12:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Qua	1.0601	1.4241	1.0861	1.0124	1.0517	0.9868	1.0213	1.0228	1.0994	1.09	2.53	0.999	0.999	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.8158	2.2933	2.3681	2.4254	2.9464	2.6773	2.8615	2.9264	----	2.66	3.00	0.998	0.998	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Qua	1.5473	0.8309	1.2596	1.3839	1.5797	1.5628	1.6303	1.6459	----	1.43	2.91	0.999	1.00	19		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.6004	2.4060	2.4238	2.4521	2.7507	2.5765	2.6999	2.6699	----	2.57	4.55	0.999	0.999	5.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	0.4650	0.4192	0.4131	0.4595	0.4710	0.4712	0.4789	0.4812	----	0.457	5.37	1.00	1.00	5.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	4.1946	3.2044	3.3610	3.6873	4.2588	4.0569	4.1284	4.0212	2.7386	3.74	5.47	0.999	1.00	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	1.0256	1.1971	1.0060	0.9903	1.0462	0.9841	0.9951	0.9940	----	1.03	5.51	1.00	1.00	6.9	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.8719	3.3501	2.8392	2.8350	2.7805	2.6441	2.7274	2.5257	3.1043	2.85	5.53	0.997	0.999	8.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	3.5295	3.6054	3.2599	3.3396	3.5386	3.3201	3.4968	3.3792	----	3.43	5.44	0.999	0.999	3.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.9098	4.3703	3.6466	3.7395	3.9522	3.6327	3.8294	3.6268	----	3.84	5.45	0.998	0.998	6.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	3.1156	3.2917	2.9405	2.9842	3.1097	2.9409	3.0510	3.0170	----	3.06	5.57	0.999	0.999	3.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.9645	3.5512	2.9447	2.9673	2.8107	2.6240	2.6223	2.5794	----	2.88	5.63	0.999	0.999	11	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	3.3095	4.0112	3.3374	3.3114	3.3808	3.1679	3.2855	3.2006	----	3.38	5.71	0.999	0.999	7.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.6327	2.0319	1.6478	1.6164	1.5478	1.5055	1.5355	1.4760	----	1.62	5.76	0.999	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.5257	1.8481	1.5788	1.5523	1.4688	1.4316	1.4335	1.3917	----	1.53	5.89	0.999	1.00	9.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.9286	0.8977	0.8187	0.9072	0.9213	0.8701	0.9128	0.8910	----	0.893	5.87	0.999	0.999	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.7675	2.2017	1.7590	1.7280	1.6487	1.5653	1.6136	1.5229	----	1.73	5.98	0.998	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Qua	1.3150	1.4851	1.2953	1.2763	1.2882	1.2351	1.2753	1.2236	1.2995	1.30	5.96	0.999	0.999	5.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.8185	2.0244	1.7877	1.8420	1.7587	1.6027	1.6442	1.5205	----	1.75	6.08	0.996	0.999	9.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5931	0.6858	0.5618	0.5730	0.5731	0.5421	0.5592	0.5387	----	0.578	6.17	0.999	0.999	8.1	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.9257	0.9942	0.8902	0.9485	0.8951	0.8089	0.8282	0.7706	0.9103	0.886	6.08	0.996	0.999	8.0	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.3321	1.5286	1.3154	1.3860	1.3071	1.1715	1.2116	1.0960	1.2577	1.29	6.08	0.993	0.998	9.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1749	0.1765	0.1535	0.1647	0.1773	0.1758	0.1780	0.1719	----	0.172	6.20	0.999	1.00	4.9		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3561	0.3771	0.3389	0.3466	0.3426	0.3289	0.3378	0.3302	----	0.345	6.21	0.999	1.00	4.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6437	0.6806	0.5904	0.6293	0.6352	0.5985	0.6159	0.6028	----	0.625	6.40	0.999	0.999	4.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1968	0.1751	0.1664	0.1835	0.2057	0.1960	0.2011	0.1977	----	0.190	6.47	0.999	0.999	7.2	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Qua	0.3593	0.3845	0.3415	0.3490	0.3550	0.3333	0.3451	0.3305	0.3341	0.348	6.49	0.999	0.999	4.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.3373	----	0.0563	0.2124	0.4304	0.4464	0.4841	0.4605	----	0.347	6.59	0.997	0.997	46		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.4155	0.4646	0.4060	0.4032	0.4027	0.3696	0.3866	0.3648	----	0.402	6.57	0.997	0.998	7.7	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Qua	0.3176	0.3141	0.2888	0.3079	0.3237	0.3025	0.3103	0.2905	0.2238	0.298	6.65	0.997	0.999	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3417	0.4175	0.3351	0.3325	0.3392	0.3146	0.3229	0.3170	----	0.340	6.72	0.999	0.999	9.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Qua	1.1548	1.4265	1.1039	1.0909	1.0834	1.0003	1.0180	0.9688	1.3895	1.14	6.78	0.997	0.999	14	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Qua	0.4126	0.3984	0.3527	0.3730	0.3771	0.3415	0.3075	0.2623	0.3386	0.352	6.81	0.965	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1911	0.2262	0.1889	0.1892	0.1941	0.1840	0.1904	0.1876	----	0.194	6.87	1.00	1.00	6.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Qua	0.1169	0.0796	0.0842	0.1100	0.1201	0.1117	0.1306	0.1226	----	0.109	7.09	0.995	0.995	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.3192	0.3095	0.2919	0.2998	0.3173	0.2952	0.3091	0.2911	----	0.304	7.17	0.998	0.999	3.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.7718	0.9317	0.7760	0.7665	0.7501	0.6888	0.7168	0.6614	----	0.758	7.31	0.996	0.998	11	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.7503	0.9068	0.7604	0.7280	0.7170	0.6581	0.6895	0.6474	----	0.732	7.39	0.997	0.998	11	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (	1	0	Avg	0.7606	0.9171	0.7648	0.7520	0.7299	0.6734	0.6993	0.6513	----	0.744	7.31	0.997	0.998	11		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	1.0068	1.2421	1.0208	0.9880	0.9803	0.9112	0.9236	0.8729	----	0.993	7.67	0.997	0.999	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5551	0.6764	0.5389	0.5473	0.5291	0.5119	0.5214	0.5082	----	0.549	7.44	0.999	1.00	9.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.45
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

7092827 0110

Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M64985.D	CAL BNA@50PPM	09/11/17 12:53	2	10M64982.D	CAL BNA@2PPM	09/11/17 11:46
3	10M64975.D	CAL BNA@10PPM	09/11/17 09:07	4	10M64981.D	CAL BNA@20PPM	09/11/17 11:23
5	10M64979.D	CAL BNA@80PPM	09/11/17 10:39	6	10M64978.D	CAL BNA@120PPM	09/11/17 10:17
7	10M64977.D	CAL BNA@160PPM	09/11/17 09:55	8	10M64976.D	CAL BNA@196PPM	09/11/17 09:32
9	10M64983.D	CAL BNA@.5PPM	09/11/17 12:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.3169	0.1786	0.2137	0.2746	0.3327	0.3349	0.3397	0.3403	----	0.291	7.43	1.00	1.00	22	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.4023	0.3348	0.3222	0.3518	0.3695	0.3742	0.3621	0.3583	----	0.359	7.52	0.999	1.00	6.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3748	0.3509	0.3618	0.3822	0.4076	0.3630	0.3928	0.3871	----	0.378	7.56	0.999	0.999	4.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.3840	1.6338	1.3148	1.3350	1.3505	1.2815	1.3232	1.2869	----	1.36	7.59	0.999	1.00	8.4		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1345	1.4336	1.1200	1.1150	1.1211	1.0523	1.0635	1.0298	----	1.13	7.70	0.999	1.00	11	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.9966	1.2432	0.9897	0.9934	0.9537	0.8827	0.8778	0.8178	----	0.969	7.97	0.996	1.00	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.9966	1.2432	0.9897	0.9934	0.9537	0.8827	0.8778	0.8178	----	0.969	7.97	0.996	1.00	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8185	1.0169	0.7924	0.8081	0.7899	0.7441	0.7464	0.7076	----	0.803	7.76	0.997	1.00	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3705	0.3434	0.3158	0.3543	0.3635	0.3416	0.3528	0.3327	----	0.347	7.77	0.998	0.999	5.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.5320	0.5921	0.5163	0.5280	0.5122	0.4783	0.4918	0.4548	----	0.513	7.96	0.996	0.999	8.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.8223	2.0202	1.7326	1.7443	1.7724	1.6492	1.6747	1.6048	----	1.75	8.05	0.998	0.999	7.3	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3423	1.5052	1.2785	1.2958	1.2957	1.2240	1.2390	1.2181	----	1.30	7.92	0.999	1.00	7.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3057	0.2874	0.2830	0.2924	0.2953	0.2750	0.2729	0.2522	----	0.283	7.97	0.996	0.999	5.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1528	1.4734	1.1475	1.1404	1.1088	1.0430	1.0533	1.0084	----	1.14	8.20	0.998	1.00	13	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3307	0.2819	0.2837	0.3191	0.2996	0.2687	0.2623	0.2404	----	0.286	8.12	0.988	0.999	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1306	----	0.0200	0.0754	0.1635	0.1745	0.1937	0.1849	----	0.135	8.21	0.996	0.997	48	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Qua	1.6995	2.0874	1.6507	1.6477	1.6446	1.5310	1.5765	1.5220	2.0824	1.72	8.35	0.999	0.999	13	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.4205	0.3332	0.3442	0.3973	0.4201	0.3945	0.4245	0.4015	----	0.392	8.33	0.999	0.999	8.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2458	0.1516	0.1818	0.2149	0.2361	0.2268	0.2381	0.2282	----	0.215	8.25	0.999	0.999	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3519	0.3085	0.3092	0.3207	0.3612	0.3364	0.3591	0.3514	----	0.337	8.46	0.999	0.999	6.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.3611	1.6409	1.3348	1.3287	1.3033	1.2027	1.2426	1.1614	----	1.32	8.67	0.997	0.999	11	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6580	0.7461	0.6362	0.6538	0.6525	0.5974	0.6318	0.6018	----	0.647	8.66	0.998	0.998	7.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2988	1.4701	1.2244	1.2473	1.3046	1.2115	1.2728	1.2082	----	1.28	8.55	0.998	0.999	6.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3883	0.3314	0.3161	0.3661	0.3795	0.3588	0.3905	0.3623	----	0.362	8.67	0.998	0.998	7.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.2774	0.2526	0.2219	0.2541	0.2817	0.2535	0.2816	0.2600	----	0.260	9.30	0.996	0.996	7.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.1287	----	0.0602	0.0967	0.1430	0.1413	0.1508	0.1538	----	0.125	8.71	0.999	1.00	28	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6800	0.7467	0.6592	0.6429	0.6427	0.6143	0.6231	0.6178	----	0.653	8.77	0.999	1.00	6.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.1188	0.0928	0.0950	0.1037	0.1190	0.1173	0.1225	0.1263	----	0.112	8.90	0.999	1.00	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.7209	0.7381	0.6709	0.6597	0.6680	0.6424	0.6384	0.7047	----	0.680	8.81	0.997	0.998	5.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2335	0.2346	0.2167	0.2166	0.2289	0.2213	0.2260	0.2276	----	0.226	9.15	1.00	1.00	3.1	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2472	0.2937	0.2326	0.2304	0.2412	0.2352	0.2438	0.2446	----	0.246	9.21	0.998	0.999	8.2	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.4609	0.4198	0.4175	0.4267	0.4241	0.3986	0.3939	0.3780	----	0.415	9.49	0.997	0.999	6.1	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1327	----	0.0634	0.0935	0.1449	0.1475	0.1555	0.1591	----	0.128	9.41	0.999	1.00	28	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.1755	1.4418	1.1589	1.1476	1.1145	1.0470	1.0745	1.0391	----	1.15	9.64	0.999	0.999	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.1826	1.3522	1.1454	1.1359	1.1420	1.0855	1.0955	1.0654	----	1.15	9.70	0.999	1.00	7.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.1167	1.2016	1.0846	1.0783	1.0793	1.0072	1.0476	0.9986	----	1.08	9.86	0.998	0.999	6.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Qua	1.2786	1.0950	1.0500	1.1718	1.2526	1.1956	1.2143	1.1779	1.0069	1.16	10.24	0.999	1.00	7.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.3030	1.3564	1.2143	1.2290	1.2383	1.1591	1.2105	1.1811	----	1.24	10.96	0.999	0.999	5.2	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.2157	1.2944	1.1433	1.1157	1.1728	1.0654	1.0790	1.0783	----	1.15	11.22	0.998	0.999	6.9	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.6028	0.2147	0.2860	0.4457	0.5716	0.5320	0.4952	0.4772	----	0.453	11.11	0.990	0.999	30		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6331	0.6402	0.5793	0.5758	0.6442	0.5962	0.6191	0.6366	----	0.616	11.41	0.999	0.999	4.5		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.45
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

7092827 0111

Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M64985.D	CAL BNA@50PPM	09/11/17 12:53	2	10M64982.D	CAL BNA@2PPM	09/11/17 11:46
3	10M64975.D	CAL BNA@10PPM	09/11/17 09:07	4	10M64981.D	CAL BNA@20PPM	09/11/17 11:23
5	10M64979.D	CAL BNA@80PPM	09/11/17 10:39	6	10M64978.D	CAL BNA@120PPM	09/11/17 10:17
7	10M64977.D	CAL BNA@160PPM	09/11/17 09:55	8	10M64976.D	CAL BNA@196PPM	09/11/17 09:32
9	10M64983.D	CAL BNA@.5PPM	09/11/17 12:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2675	0.2626	0.2320	0.2338	0.2708	0.2492	0.2627	0.2633	-----	0.255	11.34	0.999	0.999	5.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4939	0.4360	0.4286	0.4478	0.4981	0.4670	0.4873	0.4749	-----	0.467	11.74	0.999	0.999	5.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.5170	0.3779	0.3797	0.4469	0.5229	0.4856	0.5064	0.4932	-----	0.466	11.99	0.999	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.4307	0.3343	0.3620	0.3791	0.4378	0.4076	0.4252	0.4153	-----	0.399	12.09	0.999	0.999	9.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.3446	0.3131	0.3185	0.3142	0.3170	0.3104	0.2921	0.2742	-----	0.311	12.61	0.993	1.00	6.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.1220	1.2411	1.0420	1.0490	1.0988	1.0490	1.0776	1.0655	-----	1.09	12.63	1.00	1.00	6.0	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.0865	1.3022	1.0475	1.0389	1.0540	0.9951	1.0266	0.9732	-----	1.07	12.68	0.999	0.999	9.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.7123	0.4982	0.5454	0.6422	0.7132	0.6651	0.6677	0.6472	-----	0.636	12.69	0.998	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.2986	0.8085	0.8517	1.1209	1.3242	1.2542	1.2821	1.2592	-----	1.15	13.43	0.999	0.999	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1509	1.3112	1.1196	1.1035	1.0958	1.0661	1.1702	1.2210	-----	1.15	13.84	0.997	0.999	6.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1195	1.2649	1.1197	1.1011	1.1515	1.0525	1.1256	1.1797	-----	1.14	13.87	0.997	0.998	5.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.1533	1.1851	1.0326	1.0758	1.1462	1.0993	1.1317	1.1143	-----	1.12	14.18	1.00	1.00	4.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.3004	1.3209	1.1994	1.1920	1.2929	1.2225	1.3468	1.3039	-----	1.27	15.50	0.999	0.999	4.6	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.1028	1.1541	1.0048	1.0038	1.0925	1.0420	1.1390	1.1102	-----	1.08	15.52	0.998	0.998	5.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.0875	1.2182	1.0414	1.0348	1.0840	1.0144	1.1246	1.1031	-----	1.09	15.86	0.997	0.998	5.9	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.45
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

7092827 0112

Form 6
Initial Calibration

Method: EPA 8270D

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M86409.D	CAL BNA@50PPM	09/11/17 13:22	2	7M86411.D	CAL BNA@2PPM	09/11/17 14:09
3	7M86403.D	CAL BNA@10PPM	09/11/17 11:02	4	7M86410.D	CAL BNA@20PPM	09/11/17 13:46
5	7M86407.D	CAL BNA@80PPM	09/11/17 12:35	6	7M86406.D	CAL BNA@120PPM	09/11/17 12:12
7	7M86405.D	CAL BNA@160PPM	09/11/17 11:49	8	7M86404.D	CAL BNA@196PPM	09/11/17 11:25
9	7M86413.D	CAL BNA@.5PPM	09/11/17 15:05				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Qua	1.0569	1.7276	1.2302	1.1017	1.0647	1.0295	1.0602	1.0125	0.4239	1.08	2.71	0.999	0.999	31		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Qua	3.2878	2.9063	3.1981	3.1833	3.1918	3.1680	3.2757	3.4070	----	3.20	3.19	0.998	1.00	4.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Qua	1.8639	1.4640	1.6667	1.6920	1.8879	1.9515	1.9631	1.9935	----	1.81	3.10	1.00	1.00	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.6190	2.3063	2.3331	2.4168	2.7055	2.8077	2.9298	2.9371	----	2.63	4.69	0.994	1.00	9.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	0.5451	0.5814	0.5647	0.5725	0.5419	0.5192	0.5011	0.4768	----	0.538	5.51	0.997	1.00	6.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Qua	4.5737	3.3974	3.6271	4.0988	4.5567	4.6557	4.6932	4.6896	2.7945	4.12	5.60	1.00	1.00	17		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.9143	1.0557	0.8934	0.9095	0.9118	0.9028	0.9308	0.9082	----	0.928	5.64	1.00	1.00	5.7	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Qua	2.8584	3.2662	2.9370	2.9766	2.7998	2.8107	2.8505	2.7884	3.1942	2.94	5.65	1.00	1.00	6.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	3.6727	2.9597	3.2880	3.4887	3.7442	3.8553	3.9837	4.0427	----	3.63	5.57	0.999	1.00	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	4.2285	3.7372	3.8210	4.0792	4.2048	4.3130	4.4020	4.4230	----	4.15	5.58	1.00	1.00	6.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.8003	2.5786	2.6268	2.7793	2.8375	2.9035	2.9783	2.9558	----	2.81	5.70	1.00	1.00	5.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.6209	3.3517	2.7773	2.7059	2.5578	2.4582	2.4418	2.2988	----	2.65	5.76	0.997	1.00	12	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.9343	3.4856	3.0098	3.0052	2.9011	2.9044	2.9310	2.8597	----	3.00	5.84	1.00	1.00	6.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.6368	2.0341	1.6261	1.5822	1.5787	1.5016	1.5238	1.4973	----	1.62	5.90	0.999	1.00	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.5532	1.9323	1.5559	1.5379	1.5129	1.4374	1.4608	1.4319	----	1.55	6.02	0.999	1.00	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	1.0640	0.8225	0.9793	0.9714	1.0622	1.0454	1.0645	1.0828	----	1.01	6.00	1.00	1.00	8.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.8832	2.2754	1.8928	1.8761	1.8026	1.7062	1.7045	1.6993	----	1.86	6.11	0.999	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Qua	1.5099	1.2841	1.3758	1.4443	1.4800	1.4437	1.4723	1.4896	1.1138	1.40	6.09	1.00	1.00	9.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	2.1802	2.3715	2.1986	2.1997	2.0749	1.9370	1.8907	1.8463	----	2.09	6.21	0.997	1.00	8.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5909	0.7210	0.5835	0.5652	0.5829	0.5569	0.5713	0.5600	----	0.592	6.30	1.00	1.00	9.1	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	1.1875	1.2152	1.2006	1.2134	1.1220	1.0403	1.0093	0.9828	1.0408	1.11	6.21	0.995	1.00	8.5	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Qua	1.5537	1.4489	1.4986	1.4981	1.4910	1.4059	1.3855	1.3639	0.9316	1.40	6.21	0.998	1.00	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1808	0.1687	0.1603	0.1633	0.1781	0.1742	0.1794	0.1754	----	0.173	6.33	1.00	1.00	4.4		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.4224	0.4736	0.4125	0.3965	0.4100	0.3891	0.3934	0.3851	----	0.410	6.34	0.999	1.00	7.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.8012	0.7702	0.7564	0.7507	0.7837	0.7476	0.7561	0.7460	----	0.764	6.54	0.999	1.00	2.6	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Qua	0.2074	0.1553	0.1810	0.1793	0.2074	0.2031	0.2087	0.2062	----	0.194	6.60	1.00	1.00	10	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Qua	0.3984	0.3569	0.3742	0.3747	0.3875	0.3729	0.3794	0.3704	0.2577	0.364	6.63	0.999	1.00	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.2758	----	0.0087	0.0597	0.3846	0.4587	0.5015	0.5366	----	0.318	6.71	0.992	0.999	67		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.4745	0.5103	0.4630	0.4533	0.4582	0.4345	0.4365	0.4278	----	0.457	6.70	0.999	1.00	5.8	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Qua	0.3195	0.2359	0.2745	0.2891	0.3151	0.3071	0.3126	0.3043	0.1719	0.281	6.79	1.00	1.00	17	0.20 a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3371	0.4113	0.3348	0.3255	0.3256	0.3126	0.3198	0.3102	----	0.335	6.85	0.999	1.00	9.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Qua	1.1200	1.4644	1.1372	1.0920	1.0769	1.0166	1.0202	0.9886	1.4970	1.16	6.92	0.999	1.00	16	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4080	0.3592	0.3710	0.3812	0.3758	0.4690	0.3988	----	0.2782	0.380	6.95	0.987	0.987	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0		0.50
Hexachlorobutadiene	1	0	Avg	0.1862	0.2124	0.1797	0.1733	0.1794	0.1725	0.1770	0.1716	----	0.182	7.01	0.999	0.999	7.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Qua	0.1384	0.0763	0.1207	0.1242	0.1427	0.1417	0.1467	0.1618	----	0.132	7.22	0.994	0.998	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Qua	0.3675	0.3174	0.3321	0.3311	0.3631	0.3545	0.3612	0.3615	----	0.349	7.32	1.00	1.00	5.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.8052	0.9515	0.8052	0.7761	0.7783	0.7444	0.7380	0.7121	----	0.789	7.46	0.998	1.00	9.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.7774	0.9143	0.7711	0.7461	0.7402	0.7069	0.7128	0.6891	----	0.757	7.54	0.999	1.00	9.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (	1	0	Avg	0.7904	0.9328	0.7873	0.7616	0.7582	0.7259	0.7250	0.7004	----	0.773	7.46	0.999	1.00	9.3		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	1.0401	1.2568	1.0536	1.0102	0.9946	0.9579	0.9549	0.9317	----	1.03	7.83	0.999	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5442	0.6401	0.5074	0.5124	0.5177	0.4829	0.4927	0.4779	----	0.522	7.59	0.998	0.999	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.7
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

7092827 0113

Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M86409.D	CAL BNA@50PPM	09/11/17 13:22	2	7M86411.D	CAL BNA@2PPM	09/11/17 14:09
3	7M86403.D	CAL BNA@10PPM	09/11/17 11:02	4	7M86410.D	CAL BNA@20PPM	09/11/17 13:46
5	7M86407.D	CAL BNA@80PPM	09/11/17 12:35	6	7M86406.D	CAL BNA@120PPM	09/11/17 12:12
7	7M86405.D	CAL BNA@160PPM	09/11/17 11:49	8	7M86404.D	CAL BNA@196PPM	09/11/17 11:25
9	7M86413.D	CAL BNA@.5PPM	09/11/17 15:05				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.3114	0.1344	0.2053	0.2377	0.3163	0.3054	0.3207	0.3104	-----	0.268	7.58	0.999	0.999	26	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Qua	0.3809	0.2829	0.3097	0.3290	0.3801	0.3693	0.3645	0.3531	-----	0.346	7.67	0.998	1.00	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Qua	0.3899	0.3047	0.3681	0.3721	0.3814	0.3678	0.3927	0.3897	-----	0.371	7.71	0.999	0.999	7.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.3632	1.5825	1.3119	1.3073	1.3272	1.2405	1.2584	1.2185	-----	1.33	7.74	0.999	1.00	8.6		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Qua	1.1476	1.3218	1.0959	1.0862	1.0894	1.0192	1.0224	0.9866	-----	1.10	7.85	0.998	0.999	9.6	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	1.0132	1.1686	1.0071	0.9897	0.9578	0.8828	0.8711	0.8101	-----	0.963	8.13	0.995	1.00	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	1.0132	1.1686	1.0071	0.9897	0.9578	0.8828	0.8711	0.8101	-----	0.963	8.13	0.995	1.00	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8007	0.9205	0.7889	0.7735	0.7664	0.7171	0.7150	0.6845	-----	0.771	7.91	0.997	1.00	9.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.4406	0.3650	0.4008	0.4078	0.4240	0.3970	0.3954	0.3818	-----	0.402	7.93	0.998	1.00	5.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.5583	0.5743	0.5450	0.5400	0.5412	0.5101	0.5097	0.4885	-----	0.533	8.11	0.998	1.00	5.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.8267	1.9410	1.7376	1.7398	1.7476	1.6343	1.6372	1.5881	-----	1.73	8.21	0.998	1.00	6.6	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3940	1.5062	1.3589	1.3316	1.3617	1.2812	1.2858	1.2561	-----	1.35	8.07	0.999	1.00	5.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3213	0.2703	0.2946	0.3078	0.3114	0.2918	0.2851	0.2669	-----	0.294	8.13	0.995	1.00	6.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1834	1.3863	1.1575	1.1296	1.1341	1.0487	1.0433	1.0071	-----	1.14	8.36	0.997	0.999	10	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Qua	0.3477	0.2591	0.3199	0.3270	0.3409	0.3161	0.3002	0.2879	-----	0.312	8.28	0.994	1.00	9.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1251	-----	0.0201	0.0486	0.1647	0.1715	0.1893	0.1898	-----	0.130	8.37	0.997	0.998	53	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Qua	1.7181	2.1102	1.7063	1.6642	1.6620	1.5520	1.5464	1.4992	2.1149	1.73	8.52	0.998	1.00	13	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Qua	0.4499	0.3098	0.3909	0.4035	0.4500	0.4352	0.4410	0.4390	-----	0.415	8.49	1.00	1.00	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2678	0.1064	0.1833	0.2272	0.2784	0.2808	0.2856	0.2928	-----	0.240	8.41	0.999	1.00	27	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Qua	0.3547	0.2158	0.3115	0.3107	0.3724	0.3631	0.3664	0.3614	-----	0.332	8.63	1.00	1.00	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.3871	1.5767	1.3733	1.3429	1.3385	1.2466	1.2354	1.1928	-----	1.34	8.84	0.998	1.00	9.0	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6822	0.7906	0.6586	0.6436	0.6632	0.6342	0.6473	0.6299	-----	0.669	8.83	0.999	1.00	7.8	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.3893	1.3782	1.3233	1.3223	1.3738	1.3138	1.3144	1.2861	-----	1.34	8.71	0.999	1.00	2.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Qua	0.4071	0.2895	0.3768	0.3682	0.4058	0.3878	0.3919	0.3887	-----	0.377	8.84	1.00	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Qua	0.2893	0.2327	0.2526	0.2622	0.2942	0.2894	0.2934	0.2907	-----	0.276	9.46	1.00	1.00	8.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.1206	-----	0.0493	0.0743	0.1333	0.1352	0.1441	0.1442	-----	0.114	8.87	0.999	0.999	33	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6456	0.6645	0.6202	0.6184	0.6244	0.5865	0.5934	0.5810	-----	0.617	8.94	0.999	1.00	4.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.1046	0.0601	0.0841	0.0930	0.1096	0.1081	0.1141	0.1153	-----	0.0987	9.07	0.999	1.00	19		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.7945	0.7795	0.7536	0.7626	0.7560	0.7011	0.7019	0.6713	-----	0.740	8.98	0.997	1.00	5.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2204	0.2281	0.2030	0.2075	0.2207	0.2158	0.2210	0.2208	-----	0.217	9.31	1.00	1.00	3.8	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2404	0.2720	0.2249	0.2273	0.2376	0.2321	0.2389	0.2364	-----	0.239	9.39	0.999	0.999	6.1	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.4542	0.4015	0.4146	0.4297	0.4288	0.3851	0.3813	0.3497	-----	0.406	9.66	0.991	0.999	8.2	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1132	-----	0.0547	0.0669	0.1336	0.1409	0.1497	0.1532	-----	0.116	9.59	0.998	1.00	35	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.1356	1.3962	1.1331	1.1027	1.0966	1.0266	1.0277	1.0034	-----	1.12	9.82	0.998	1.00	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.1544	1.2164	1.1237	1.1108	1.1206	1.0514	1.0574	1.0187	-----	1.11	9.88	0.998	1.00	5.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.1165	1.1463	1.0944	1.0685	1.0898	1.0369	1.0306	1.0114	-----	1.07	10.04	0.999	1.00	4.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Qua	1.2994	0.9796	1.1302	1.1783	1.2849	1.2380	1.2320	1.1992	0.7501	1.14	10.42	0.999	1.00	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.2958	1.3448	1.2405	1.2340	1.2908	1.2338	1.2236	1.2027	-----	1.26	11.15	0.999	1.00	3.8	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.1463	1.1185	1.0327	1.0654	1.1137	1.0672	1.0823	1.0533	-----	1.08	11.41	0.999	1.00	3.5	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.5749	0.1828	0.3492	0.4147	0.5808	0.5470	0.5042	0.4748	-----	0.454	11.30	0.988	0.999	30		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6063	0.5887	0.5356	0.5524	0.6119	0.6009	0.6220	0.6334	-----	0.594	11.59	0.999	1.00	5.7		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.7
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

7092827 0114

Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M86409.D	CAL BNA@50PPM	09/11/17 13:22	2	7M86411.D	CAL BNA@2PPM	09/11/17 14:09
3	7M86403.D	CAL BNA@10PPM	09/11/17 11:02	4	7M86410.D	CAL BNA@20PPM	09/11/17 13:46
5	7M86407.D	CAL BNA@80PPM	09/11/17 12:35	6	7M86406.D	CAL BNA@120PPM	09/11/17 12:12
7	7M86405.D	CAL BNA@160PPM	09/11/17 11:49	8	7M86404.D	CAL BNA@196PPM	09/11/17 11:25
9	7M86413.D	CAL BNA@.5PPM	09/11/17 15:05				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2491	0.2314	0.2154	0.2259	0.2500	0.2502	0.2570	0.2556	-----	0.242	11.53	1.00	1.00	6.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4932	0.3884	0.4124	0.4352	0.4965	0.4864	0.5021	0.4922	-----	0.463	11.93	0.999	0.999	9.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.5238	0.3139	0.4132	0.4464	0.5280	0.5138	0.5252	0.5156	-----	0.473	12.18	1.00	1.00	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.4200	0.2380	0.3282	0.3566	0.4266	0.4132	0.4258	0.4104	-----	0.377	12.28	0.999	0.999	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.3786	0.2498	0.3294	0.3260	0.3830	0.3651	0.3341	0.3180	-----	0.336	12.80	0.991	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.1504	1.2133	1.0945	1.0751	1.1423	1.0972	1.1018	1.0812	-----	1.12	12.83	0.999	1.00	4.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.0585	1.2638	1.0406	1.0279	1.0493	0.9917	0.9954	0.9572	-----	1.05	12.87	0.999	1.00	8.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Qua	0.7134	0.4678	0.6044	0.6299	0.6972	0.6497	0.6410	0.6131	-----	0.627	12.87	0.996	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.3528	0.6832	1.0555	1.0930	1.3747	1.3346	1.3539	1.2875	-----	1.19	13.63	0.998	0.999	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.3013	1.2146	1.1738	1.1429	1.2726	1.1706	1.2074	1.2169	-----	1.21	14.07	0.999	0.999	4.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.2503	1.3108	1.0829	1.1410	1.2341	1.0462	1.1616	1.1014	-----	1.17	14.10	0.995	0.995	7.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.1784	1.1015	1.0550	1.0510	1.1703	1.1367	1.1552	1.1344	-----	1.12	14.43	1.00	1.00	4.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.1836	1.1540	1.0734	1.0760	1.2041	1.1535	1.1925	1.1697	-----	1.15	15.83	0.999	0.999	4.4	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0018	0.9772	0.9137	0.9199	1.0225	0.9669	0.9972	0.9756	-----	0.972	15.85	0.999	0.999	3.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9632	1.0359	0.9052	0.8931	0.9783	0.9275	0.9570	0.9361	-----	0.950	16.21	0.999	0.999	4.8	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.7
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M86986.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/3/2017 3:31:00 P Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.66	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.70	41.50	50	**		1.079	0.895	17.00	
Pyridine	1	0		3.18	51.33	50	**		3.202	3.188	2.67	
N-Nitrosodimethylamine	1	0		3.10	49.25	50	**		1.810	1.841	1.50	
2-Fluorophenol	1	0	S	4.69	56.03	50	**		2.632	2.949	12.06	
Benzaldehyde	1	0		5.51	32.57	50	20	0.01	0.538	0.350	34.85	C1
Aniline	1	0		5.60	51.85	50	**		4.121	4.719	3.70	
Pentachloroethane	1	0		5.64	56.04	50	**	0.05	0.928	1.041	12.09	
bis(2-Chloroethyl)ether	1	0		5.65	52.82	50	20	0.7	2.942	3.009	5.64	
Phenol-d5	1	0	S	5.57	55.43	50	**		3.629	4.024	10.86	
Phenol	1	0		5.59	53.44	50	20	0.8	4.151	4.436	6.87	
2-Chlorophenol	1	0		5.70	59.15	50	20	0.8	2.808	3.321	18.30	
N-Decane	1	0		5.75	51.07	50	**	0.05	2.652	2.708	2.13	
1,3-Dichlorobenzene	1	0		5.83	58.33	50	**		3.004	3.505	16.67	
1,4-Dichlorobenzene-d4	1	0	I	5.88	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.90	53.21	50	20		1.623	1.727	6.41	
1,2-Dichlorobenzene	1	0		6.02	52.51	50	**		1.553	1.631	5.02	
Benzyl alcohol	1	0		5.99	50.88	50	**		1.012	1.029	1.75	
bis(2-chloroisopropyl)ether	1	0		6.10	44.75	50	20	0.01	1.855	1.660	10.50	
2-Methylphenol	1	0		6.09	52.27	50	20	0.7	1.402	1.522	4.54	
Acetophenone	1	0		6.21	45.97	50	20	0.01	2.087	1.919	8.06	
Hexachloroethane	1	0		6.29	51.14	50	20	0.3	0.592	0.605	2.28	
N-Nitroso-di-n-propylamine	1	0		6.21	50.90	50	20	0.5	1.112	1.133	1.81	
3&4-Methylphenol	1	0		6.21	52.51	50	20		1.398	1.571	5.02	
Naphthalene-d8	1	0	I	6.89	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.33	28.61	25	**		0.173	0.197	14.43	
Nitrobenzene	1	0		6.34	48.39	50	20	0.2	0.410	0.397	3.21	
Isophorone	1	0		6.53	49.39	50	20	0.4	0.764	0.755	1.23	
2-Nitrophenol	1	0		6.59	55.86	50	20	0.1	0.194	0.229	11.72	
2,4-Dimethylphenol	1	0		6.62	52.49	50	20	0.2	0.364	0.407	4.98	
Benzoic Acid	1	0		6.70	20.02	50	**		0.318	0.045	59.96	
bis(2-Chloroethoxy)methane	1	0		6.69	49.97	50	20	0.3	0.457	0.457	0.05	
2,4-Dichlorophenol	1	0		6.78	56.81	50	20	0.2	0.281	0.358	13.62	
1,2,4-Trichlorobenzene	1	0		6.85	55.14	50	**		0.335	0.369	10.27	
Naphthalene	1	0		6.90	53.99	50	20	0.7	1.157	1.171	7.99	
4-Chloroaniline	1	0		6.94	62.72	50	20	0.01	0.380	0.477	25.44	C1
Hexachlorobutadiene	1	0		7.00	59.21	50	20	0.01	0.182	0.215	18.43	
Caprolactam	1	0		7.21	47.06	50	20	0.01	0.132	0.122	5.89	
4-Chloro-3-methylphenol	1	0		7.31	51.94	50	20	0.2	0.349	0.372	3.88	
2-Methylnaphthalene	1	0		7.44	54.81	50	**	0.4	0.789	0.865	9.63	
1-Methylnaphthalene	1	0		7.52	54.20	50	**	0.4	0.757	0.821	8.40	
Methylnaphthalenes	1	0		7.44	109.13	100	**			0.843	9.13	
1,1'-Biphenyl	1	0		7.81	54.60	50	20	0.01	1.025	1.119	9.21	
Acenaphthene-d10	1	0	I	8.32	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.58	49.76	50	20	0.01	0.522	0.519	0.48	
Hexachlorocyclopentadiene	1	0		7.57	17.40	50	20	0.05	0.268	0.107	65.20	C1
2,4,6-Trichlorophenol	1	0		7.67	53.74	50	20	0.2	0.346	0.410	7.48	
2,4,5-Trichlorophenol	1	0		7.71	57.63	50	20	0.2	0.371	0.432	15.26	
2-Fluorobiphenyl	1	0	S	7.73	27.49	25	**		1.326	1.459	9.98	
2-Chloronaphthalene	1	0		7.84	54.01	50	20	0.8	1.096	1.186	8.01	
1,4-Dimethylnaphthalene	1	0		8.12	55.58	50	**		0.963	1.070	11.16	
Dimethylnaphthalenes	1	0		8.12	55.58	50	20			1.070	11.16	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M86986.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/3/2017 3:31:00 P Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.90	49.22	50	**		0.771	0.759	1.55	
2-Nitroaniline	1	0		7.91	49.55	50	20	0.01	0.402	0.398	0.89	
Coumarin	1	0		8.10	51.95		**		0.533			
Acenaphthylene	1	0		8.20	54.19	50	20	0.9	1.732	1.877	8.37	
Dimethylphthalate	1	0		8.06	53.89	50	20	0.01	1.347	1.452	7.77	
2,6-Dinitrotoluene	1	0		8.12	57.69	50	20	0.2	0.294	0.339	15.38	
Acenaphthene	1	0		8.35	53.64	50	20	0.9	1.136	1.219	7.27	
3-Nitroaniline	1	0		8.27	53.80	50	20	0.01	0.312	0.370	7.59	
2,4-Dinitrophenol	1	0		8.37	41.26	50	20	0.01	0.130	0.106	17.48	
Dibenzofuran	1	0		8.51	53.95	50	20	0.8	1.730	1.799	7.91	
2,4-Dinitrotoluene	1	0		8.48	52.77	50	20	0.2	0.415	0.467	5.53	
4-Nitrophenol	1	0		8.41	38.35	50	20	0.01	0.240	0.204	23.29	C1
2,3,4,6-Tetrachlorophenol	1	0		8.62	49.17	50	20	0.01	0.332	0.358	1.67	
Fluorene	1	0		8.83	54.84	50	20	0.9	1.337	1.466	9.69	
4-Chlorophenyl-phenylether	1	0		8.82	54.89	50	20	0.4	0.669	0.734	9.77	
Diethylphthalate	1	0		8.69	53.53	50	20	0.01	1.338	1.432	7.05	
4-Nitroaniline	1	0		8.83	51.02	50	20	0.01	0.377	0.408	2.05	
Atrazine	1	0		9.45	47.82	50	20	0.01	0.276	0.278	4.36	
Phenanthrene-d10	1	0	I	9.78	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.87	45.83	50	20	0.01	0.114	0.114	8.35	
n-Nitrosodiphenylamine	1	0		8.92	56.14	50	20	0.01	0.617	0.693	12.29	
2,4,6-Tribromophenol	1	0	S	9.06	64.92	50	**		0.099	0.137	29.83	
1,2-Diphenylhydrazine	1	0		8.97	53.23	50	**		0.740	0.788	6.47	
4-Bromophenyl-phenylether	1	0		9.30	59.74	50	20	0.1	0.217	0.260	19.48	
Hexachlorobenzene	1	0		9.38	60.68	50	20	0.1	0.239	0.290	21.36	C1
N-Octadecane	1	0		9.63	53.09	50	**	0.05	0.406	0.431	6.19	
Pentachlorophenol	1	0		9.58	29.90	50	20	0.05	0.116	0.071	40.21	C1
Phenanthrene	1	0		9.81	53.31	50	20	0.7	1.115	1.189	6.62	
Anthracene	1	0		9.86	55.59	50	20	0.7	1.107	1.230	11.18	
Carbazole	1	0		10.04	52.73	50	20	0.01	1.074	1.133	5.46	
Di-n-butylphthalate	1	0		10.40	53.10	50	20	0.01	1.144	1.366	6.20	
Fluoranthene	1	0		11.14	54.28	50	20	0.6	1.258	1.366	8.55	
Chrysene-d12	1	0	I	12.84	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.41	56.00	50	20	0.6	1.085	1.215	12.01	
Benzidine	1	0		11.29	52.07	50	**		0.454	0.611	4.13	
Terphenyl-d14	1	0	S	11.58	28.89	25	**		0.594	0.686	15.56	
4,4'-DDE	1	0		11.52	58.24		**		0.242			
4,4'-DDD	1	0		11.92	59.15		**		0.463			
Butylbenzylphthalate	1	0		12.17	52.07	50	20	0.01	0.473	0.542	4.14	
4,4'-DDT	1	0		12.27	56.43		**		0.377			
3,3'-Dichlorobenzidine	1	0		12.79	63.53	50	20	0.01	0.336	0.489	27.06	C1
Benzo[a]anthracene	1	0		12.83	53.48	50	20	0.8	1.120	1.197	6.95	
Chrysene	1	0		12.87	50.19	50	20	0.7	1.048	1.052	0.37	
bis(2-Ethylhexyl)phthalate	1	0		12.86	52.97	50	20	0.01	0.627	0.741	5.94	
Perylene-d12	1	0	I	14.47	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.60	52.25	50	20	0.01	1.192	1.434	4.50	
Benzo[b]fluoranthene	1	0		14.05	55.68	50	20	0.7	1.213	1.350	11.35	
Benzo[k]fluoranthene	1	0		14.08	50.27	50	20	0.7	1.166	1.172	0.54	
Benzo[a]pyrene	1	0		14.42	53.96	50	20	0.7	1.123	1.212	7.92	
Indeno[1,2,3-cd]pyrene	1	0		15.82	56.09	50	20	0.5	1.151	1.291	12.18	
Dibenzo[a,h]anthracene	1	0		15.84	56.31	50	20	0.4	0.972	1.095	12.62	
Benzo[g,h,i]perylene	1	0		16.21	56.88	50	20	0.5	0.950	1.080	13.75	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M86986.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/3/2017 3:31:00 P Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.773	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.963	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M65316.D **Instrument:** GCMS 10

Cont Calibration Date/Time 10/4/2017 8:55:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.49	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.52	47.91	50	**		1.085	0.981	4.17	
Pyridine	1	0		3.01	43.06	50	**		2.664	2.294	13.89	
N-Nitrosodimethylamine	1	0		2.90	50.19	50	**		1.430	1.533	0.39	
2-Fluorophenol	1	0	S	4.55	48.23	50	**		2.572	2.481	3.54	
Benzaldehyde	1	0		5.37	39.94	50	20	0.01	0.457	0.365	20.12	
Aniline	1	0		5.47	55.01	50	**		3.739	4.114	10.03	
Pentachloroethane	1	0		5.51	49.18	50	**	0.05	1.030	1.013	1.64	
bis(2-Chloroethyl)ether	1	0		5.52	48.59	50	20	0.7	2.853	2.773	2.82	
Phenol-d5	1	0	S	5.43	46.19	50	**		3.434	3.172	7.63	
Phenol	1	0		5.44	45.76	50	20	0.8	3.838	3.513	8.47	
2-Chlorophenol	1	0		5.57	48.79	50	20	0.8	3.056	2.982	2.43	
N-Decane	1	0		5.62	49.28	50	**	0.05	2.883	2.842	1.43	
1,3-Dichlorobenzene	1	0		5.70	49.37	50	**		3.376	3.333	1.27	
1,4-Dichlorobenzene-d4	1	0	I	5.75	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.76	48.71	50	20		1.624	1.582	2.58	
1,2-Dichlorobenzene	1	0		5.89	48.94	50	**		1.529	1.497	2.11	
Benzyl alcohol	1	0		5.87	31.95	50	**		0.893	0.571	36.11	
bis(2-chloroisopropyl)ether	1	0		5.97	47.89	50	20	0.01	1.726	1.653	4.23	
2-Methylphenol	1	0		5.96	48.69	50	20	0.7	1.299	1.263	2.63	
Acetophenone	1	0		6.08	49.90	50	20	0.01	1.750	1.746	0.20	
Hexachloroethane	1	0		6.17	48.21	50	20	0.3	0.578	0.558	3.57	
N-Nitroso-di-n-propylamine	1	0		6.08	52.30	50	20	0.5	0.886	0.927	4.61	
3&4-Methylphenol	1	0		6.08	47.63	50	20		1.290	1.228	4.75	
Naphthalene-d8	1	0	I	6.75	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.20	25.64	25	**		0.172	0.176	2.55	
Nitrobenzene	1	0		6.21	49.86	50	20	0.2	0.345	0.344	0.27	
Isophorone	1	0		6.40	49.85	50	20	0.4	0.625	0.623	0.30	
2-Nitrophenol	1	0		6.46	51.04	50	20	0.1	0.190	0.194	2.08	
2,4-Dimethylphenol	1	0		6.49	48.25	50	20	0.2	0.348	0.342	3.50	
Benzoic Acid	1	0		6.58	47.85	50	**		0.347	0.385	4.29	
bis(2-Chloroethoxy)methane	1	0		6.56	49.89	50	20	0.3	0.402	0.401	0.22	
2,4-Dichlorophenol	1	0		6.65	46.17	50	20	0.2	0.298	0.300	7.66	
1,2,4-Trichlorobenzene	1	0		6.71	49.08	50	**		0.340	0.334	1.84	
Naphthalene	1	0		6.77	49.52	50	20	0.7	1.137	1.089	0.95	
4-Chloroaniline	1	0		6.81	54.21	50	20	0.01	0.352	0.439	8.42	
Hexachlorobutadiene	1	0		6.87	50.32	50	20	0.01	0.194	0.195	0.64	
Caprolactam	1	0		7.08	48.30	50	20	0.01	0.109	0.111	3.39	
4-Chloro-3-methylphenol	1	0		7.17	46.80	50	20	0.2	0.304	0.285	6.40	
2-Methylnaphthalene	1	0		7.30	51.33	50	**	0.4	0.758	0.778	2.65	
1-Methylnaphthalene	1	0		7.38	51.20	50	**	0.4	0.732	0.750	2.40	
Methylnaphthalenes	1	0		7.38	101.78	100	**			0.757	1.78	
1,1'-Biphenyl	1	0		7.67	50.19	50	20	0.01	0.993	0.997	0.38	
Acenaphthene-d10	1	0	I	8.17	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.43	47.21	50	20	0.01	0.549	0.518	5.59	
Hexachlorocyclopentadiene	1	0		7.43	29.90	50	20	0.05	0.291	0.192	40.20	C1
2,4,6-Trichlorophenol	1	0		7.52	48.21	50	20	0.2	0.359	0.347	3.57	
2,4,5-Trichlorophenol	1	0		7.56	47.46	50	20	0.2	0.378	0.358	5.09	
2-Fluorobiphenyl	1	0	S	7.59	24.74	25	**		1.364	1.349	1.05	
2-Chloronaphthalene	1	0		7.70	49.16	50	20	0.8	1.134	1.115	1.68	
1,4-Dimethylnaphthalene	1	0		7.97	51.51	50	**		0.969	0.999	3.02	
Dimethylnaphthalenes	1	0		7.97	51.51	50	20			0.999	3.02	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M65316.D **Instrument:** GCMS 10

Cont Calibration Date/Time 10/4/2017 8:55:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.75	47.69	50	**		0.803	0.766	4.62	
2-Nitroaniline	1	0		7.77	50.87	50	20	0.01	0.347	0.353	1.74	
Coumarin	1	0		7.95	50.18		**		0.513			
Acenaphthylene	1	0		8.05	50.72	50	20	0.9	1.753	1.778	1.45	
Dimethylphthalate	1	0		7.92	50.62	50	20	0.01	1.300	1.316	1.25	
2,6-Dinitrotoluene	1	0		7.97	52.72	50	20	0.2	0.283	0.298	5.44	
Acenaphthene	1	0		8.20	50.29	50	20	0.9	1.141	1.148	0.59	
3-Nitroaniline	1	0		8.12	58.14	50	20	0.01	0.286	0.332	16.29	
2,4-Dinitrophenol	1	0		8.21	36.41	50	20	0.01	0.135	0.109	27.17	C1
Dibenzofuran	1	0		8.35	50.98	50	20	0.8	1.716	1.674	1.96	
2,4-Dinitrotoluene	1	0		8.32	52.11	50	20	0.2	0.392	0.409	4.23	
4-Nitrophenol	1	0		8.25	26.65	50	20	0.01	0.215	0.127	46.70	C1
2,3,4,6-Tetrachlorophenol	1	0		8.46	48.41	50	20	0.01	0.337	0.327	3.18	
Fluorene	1	0		8.67	50.60	50	20	0.9	1.322	1.338	1.20	
4-Chlorophenyl-phenylether	1	0		8.66	49.42	50	20	0.4	0.647	0.640	1.15	
Diethylphthalate	1	0		8.54	50.70	50	20	0.01	1.280	1.298	1.40	
4-Nitroaniline	1	0		8.67	51.25	50	20	0.01	0.362	0.371	2.50	
Atrazine	1	0		9.29	50.14	50	20	0.01	0.260	0.261	0.27	
Phenanthrene-d10	1	0	I	9.61	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.71	45.65	50	20	0.01	0.125	0.120	8.71	
n-Nitrosodiphenylamine	1	0		8.77	51.37	50	20	0.01	0.653	0.671	2.74	
2,4,6-Tribromophenol	1	0	S	8.90	48.48	50	**		0.112	0.110	3.05	
1,2-Diphenylhydrazine	1	0		8.81	51.20	50	**		0.680	0.697	2.40	
4-Bromophenyl-phenylether	1	0		9.14	50.04	50	20	0.1	0.226	0.226	0.07	
Hexachlorobenzene	1	0		9.22	48.73	50	20	0.1	0.246	0.240	2.54	
N-Octadecane	1	0		9.48	54.70	50	**	0.05	0.415	0.454	9.40	
Pentachlorophenol	1	0		9.41	44.98	50	20	0.05	0.128	0.121	10.04	
Phenanthrene	1	0		9.64	49.86	50	20	0.7	1.150	1.147	0.27	
Anthracene	1	0		9.69	51.05	50	20	0.7	1.151	1.175	2.11	
Carbazole	1	0		9.86	51.14	50	20	0.01	1.077	1.101	2.28	
Di-n-butylphthalate	1	0		10.24	51.45	50	20	0.01	1.160	1.287	2.91	
Fluoranthene	1	0		10.95	52.10	50	20	0.6	1.237	1.288	4.20	
Chrysene-d12	1	0	I	12.64	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.22	50.58	50	20	0.6	1.146	1.159	1.16	
Benzidine	1	0		11.11	45.57	50	**		0.453	0.530	8.87	
Terphenyl-d14	1	0	S	11.40	24.42	25	**		0.616	0.601	2.32	
4,4'-DDE	1	0		11.34	49.67		**		0.255			
4,4'-DDD	1	0		11.73	51.56		**		0.467			
Butylbenzylphthalate	1	0		11.99	51.12	50	20	0.01	0.466	0.519	2.24	
4,4'-DDT	1	0		12.09	49.91		**		0.399			
3,3'-Dichlorobenzidine	1	0		12.60	63.46	50	20	0.01	0.311	0.420	26.92	C1
Benzo[a]anthracene	1	0		12.63	49.59	50	20	0.8	1.093	1.084	0.83	
Chrysene	1	0		12.67	49.70	50	20	0.7	1.066	1.059	0.60	
bis(2-Ethylhexyl)phthalate	1	0		12.68	56.02	50	20	0.01	0.636	0.713	12.03	
Perylene-d12	1	0	I	14.24	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.42	51.37	50	20	0.01	1.150	1.324	2.75	
Benzo[b]fluoranthene	1	0		13.84	51.15	50	20	0.7	1.155	1.181	2.31	
Benzo[k]fluoranthene	1	0		13.87	50.11	50	20	0.7	1.139	1.142	0.21	
Benzo[a]pyrene	1	0		14.18	51.23	50	20	0.7	1.117	1.145	2.46	
Indeno[1,2,3-cd]pyrene	1	0		15.50	51.38	50	20	0.5	1.272	1.307	2.76	
Dibenzo[a,h]anthracene	1	0		15.52	51.43	50	20	0.4	1.081	1.112	2.86	
Benzo[g,h,i]perylene	1	0		15.85	50.22	50	20	0.5	1.089	1.093	0.44	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M65316.D **Instrument:** GCMS 10

Cont Calibration Date/Time 10/4/2017 8:55:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.744	0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.969	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M87008.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/4/2017 8:55:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.65	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.69	42.84	50	**		1.079	0.923	14.33	
Pyridine	1	0		3.17	52.81	50	**		3.202	3.282	5.62	
N-Nitrosodimethylamine	1	0		3.09	47.68	50	**		1.810	1.781	4.64	
2-Fluorophenol	1	0	S	4.69	54.26	50	**		2.632	2.856	8.51	
Benzaldehyde	1	0		5.50	30.98	50	20	0.01	0.538	0.333	38.04	C1
Aniline	1	0		5.60	50.57	50	**		4.121	4.601	1.14	
Pentachloroethane	1	0		5.64	56.18	50	**	0.05	0.928	1.043	12.36	
bis(2-Chloroethyl)ether	1	0		5.65	51.39	50	20	0.7	2.942	2.928	2.79	
Phenol-d5	1	0	S	5.57	53.43	50	**		3.629	3.879	6.86	
Phenol	1	0		5.59	50.96	50	20	0.8	4.151	4.231	1.92	
2-Chlorophenol	1	0		5.70	57.42	50	20	0.8	2.808	3.224	14.83	
N-Decane	1	0		5.74	51.95	50	**	0.05	2.652	2.755	3.90	
1,3-Dichlorobenzene	1	0		5.83	56.48	50	**		3.004	3.394	12.97	
1,4-Dichlorobenzene-d4	1	0	I	5.88	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.89	52.96	50	20		1.623	1.719	5.91	
1,2-Dichlorobenzene	1	0		6.02	52.87	50	**		1.553	1.642	5.75	
Benzyl alcohol	1	0		5.99	49.06	50	**		1.012	0.992	1.89	
bis(2-chloroisopropyl)ether	1	0		6.10	44.85	50	20	0.01	1.855	1.664	10.30	
2-Methylphenol	1	0		6.09	51.14	50	20	0.7	1.402	1.489	2.27	
Acetophenone	1	0		6.21	44.10	50	20	0.01	2.087	1.841	11.80	
Hexachloroethane	1	0		6.29	50.75	50	20	0.3	0.592	0.600	1.50	
N-Nitroso-di-n-propylamine	1	0		6.20	49.19	50	20	0.5	1.112	1.094	1.63	
3&4-Methylphenol	1	0		6.21	50.44	50	20		1.398	1.512	0.89	
Naphthalene-d8	1	0	I	6.89	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.33	28.11	25	**		0.173	0.194	12.44	
Nitrobenzene	1	0		6.34	49.19	50	20	0.2	0.410	0.404	1.62	
Isophorone	1	0		6.53	48.74	50	20	0.4	0.764	0.745	2.53	
2-Nitrophenol	1	0		6.60	55.59	50	20	0.1	0.194	0.227	11.18	
2,4-Dimethylphenol	1	0		6.62	52.54	50	20	0.2	0.364	0.408	5.08	
Benzoic Acid	1	0		6.71	26.15	50	**		0.318	0.097	47.70	
bis(2-Chloroethoxy)methane	1	0		6.69	49.66	50	20	0.3	0.457	0.454	0.68	
2,4-Dichlorophenol	1	0		6.79	56.03	50	20	0.2	0.281	0.353	12.07	
1,2,4-Trichlorobenzene	1	0		6.85	55.41	50	**		0.335	0.371	10.83	
Naphthalene	1	0		6.91	56.11	50	20	0.7	1.157	1.216	12.22	
4-Chloroaniline	1	0		6.94	61.52	50	20	0.01	0.380	0.468	23.04	C1
Hexachlorobutadiene	1	0		7.00	59.71	50	20	0.01	0.182	0.217	19.42	
Caprolactam	1	0		7.21	46.48	50	20	0.01	0.132	0.121	7.04	
4-Chloro-3-methylphenol	1	0		7.32	50.60	50	20	0.2	0.349	0.362	1.20	
2-Methylnaphthalene	1	0		7.44	53.54	50	**	0.4	0.789	0.845	7.07	
1-Methylnaphthalene	1	0		7.52	52.88	50	**	0.4	0.757	0.801	5.76	
Methylnaphthalenes	1	0		7.44	106.45	100	**			0.823	6.45	
1,1'-Biphenyl	1	0		7.82	53.29	50	20	0.01	1.025	1.093	6.58	
Acenaphthene-d10	1	0	I	8.33	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.58	50.66	50	20	0.01	0.522	0.529	1.31	
Hexachlorocyclopentadiene	1	0		7.57	13.59	50	20	0.05	0.268	0.084	72.81	C1
2,4,6-Trichlorophenol	1	0		7.67	54.42	50	20	0.2	0.346	0.415	8.85	
2,4,5-Trichlorophenol	1	0		7.71	56.35	50	20	0.2	0.371	0.422	12.69	
2-Fluorobiphenyl	1	0	S	7.73	27.70	25	**		1.326	1.470	10.81	
2-Chloronaphthalene	1	0		7.85	54.50	50	20	0.8	1.096	1.197	9.01	
1,4-Dimethylnaphthalene	1	0		8.13	55.07	50	**		0.963	1.060	10.14	
Dimethylnaphthalenes	1	0		8.13	55.07	50	20			1.060	10.14	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M87008.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/4/2017 8:55:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.90	49.54	50	**		0.771	0.764	0.92	
2-Nitroaniline	1	0		7.92	50.05	50	20	0.01	0.402	0.402	0.11	
Coumarin	1	0		8.11	51.11		**		0.533			
Acenaphthylene	1	0		8.20	54.44	50	20	0.9	1.732	1.885	8.88	
Dimethylphthalate	1	0		8.06	53.05	50	20	0.01	1.347	1.429	6.10	
2,6-Dinitrotoluene	1	0		8.12	57.13	50	20	0.2	0.294	0.336	14.26	
Acenaphthene	1	0		8.36	53.94	50	20	0.9	1.136	1.226	7.87	
3-Nitroaniline	1	0		8.27	52.56	50	20	0.01	0.312	0.362	5.12	
2,4-Dinitrophenol	1	0		8.37	43.03	50	20	0.01	0.130	0.112	13.95	
Dibenzofuran	1	0		8.51	53.41	50	20	0.8	1.730	1.781	6.83	
2,4-Dinitrotoluene	1	0		8.49	52.26	50	20	0.2	0.415	0.462	4.52	
4-Nitrophenol	1	0		8.42	39.89	50	20	0.01	0.240	0.212	20.22	
2,3,4,6-Tetrachlorophenol	1	0		8.63	49.06	50	20	0.01	0.332	0.357	1.87	
Fluorene	1	0		8.83	54.10	50	20	0.9	1.337	1.446	8.20	
4-Chlorophenyl-phenylether	1	0		8.82	54.42	50	20	0.4	0.669	0.728	8.85	
Diethylphthalate	1	0		8.69	52.46	50	20	0.01	1.338	1.404	4.93	
4-Nitroaniline	1	0		8.84	50.55	50	20	0.01	0.377	0.404	1.10	
Atrazine	1	0		9.46	47.17	50	20	0.01	0.276	0.274	5.67	
Phenanthrene-d10	1	0	I	9.79	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.88	47.29	50	20	0.01	0.114	0.118	5.41	
n-Nitrosodiphenylamine	1	0		8.93	56.46	50	20	0.01	0.617	0.697	12.93	
2,4,6-Tribromophenol	1	0	S	9.07	62.85	50	**		0.099	0.133	25.70	
1,2-Diphenylhydrazine	1	0		8.98	54.08	50	**		0.740	0.801	8.16	
4-Bromophenyl-phenylether	1	0		9.31	58.19	50	20	0.1	0.217	0.253	16.39	
Hexachlorobenzene	1	0		9.39	59.06	50	20	0.1	0.239	0.282	18.13	
N-Octadecane	1	0		9.64	56.04	50	**	0.05	0.406	0.455	12.07	
Pentachlorophenol	1	0		9.59	34.10	50	20	0.05	0.116	0.081	31.81	C1
Phenanthrene	1	0		9.82	53.85	50	20	0.7	1.115	1.201	7.70	
Anthracene	1	0		9.87	55.84	50	20	0.7	1.107	1.236	11.68	
Carbazole	1	0		10.04	53.25	50	20	0.01	1.074	1.144	6.50	
Di-n-butylphthalate	1	0		10.40	53.07	50	20	0.01	1.144	1.365	6.15	
Fluoranthene	1	0		11.15	54.21	50	20	0.6	1.258	1.364	8.42	
Chrysene-d12	1	0	I	12.85	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.41	54.81	50	20	0.6	1.085	1.189	9.62	
Benzidine	1	0		11.29	51.26	50	**		0.454	0.602	2.53	
Terphenyl-d14	1	0	S	11.58	27.90	25	**		0.594	0.663	11.58	
4,4'-DDE	1	0		11.52	56.05		**		0.242			
4,4'-DDD	1	0		11.92	57.74		**		0.463			
Butylbenzylphthalate	1	0		12.17	50.91	50	20	0.01	0.473	0.530	1.83	
4,4'-DDT	1	0		12.28	54.49		**		0.377			
3,3'-Dichlorobenzidine	1	0		12.80	63.67	50	20	0.01	0.336	0.490	27.34	C1
Benzo[a]anthracene	1	0		12.83	52.36	50	20	0.8	1.120	1.172	4.72	
Chrysene	1	0		12.87	50.86	50	20	0.7	1.048	1.066	1.72	
bis(2-Ethylhexyl)phthalate	1	0		12.86	52.79	50	20	0.01	0.627	0.738	5.58	
Perylene-d12	1	0	I	14.47	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.61	50.74	50	20	0.01	1.192	1.394	1.48	
Benzo[b]fluoranthene	1	0		14.05	53.30	50	20	0.7	1.213	1.293	6.60	
Benzo[k]fluoranthene	1	0		14.08	51.66	50	20	0.7	1.166	1.205	3.31	
Benzo[a]pyrene	1	0		14.42	54.05	50	20	0.7	1.123	1.214	8.11	
Indeno[1,2,3-cd]pyrene	1	0		15.83	58.31	50	20	0.5	1.151	1.342	16.61	
Dibenzo[a,h]anthracene	1	0		15.84	58.61	50	20	0.4	0.972	1.139	17.23	
Benzo[g,h,i]perylene	1	0		16.21	59.14	50	20	0.5	0.950	1.123	18.29	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M87008.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/4/2017 8:55:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.773	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.963	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M87025.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/4/2017 4:13:00 P Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.66	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.70	42.09	50	**		1.079	0.907	15.81	
Pyridine	1	0		3.18	52.36	50	**		3.202	3.254	4.73	
N-Nitrosodimethylamine	1	0		3.10	50.23	50	**		1.810	1.878	0.47	
2-Fluorophenol	1	0	S	4.69	57.07	50	**		2.632	3.004	14.15	
Benzaldehyde	1	0		5.51	33.93	50	20	0.01	0.538	0.365	32.14	C1
Aniline	1	0		5.60	52.97	50	**		4.121	4.823	5.95	
Pentachloroethane	1	0		5.64	58.51	50	**	0.05	0.928	1.086	17.02	
bis(2-Chloroethyl)ether	1	0		5.65	54.40	50	20	0.7	2.942	3.098	8.80	
Phenol-d5	1	0	S	5.57	56.19	50	**		3.629	4.079	12.39	
Phenol	1	0		5.59	53.92	50	20	0.8	4.151	4.477	7.85	
2-Chlorophenol	1	0		5.70	60.81	50	20	0.8	2.808	3.415	21.62	C1
N-Decane	1	0		5.75	54.39	50	**	0.05	2.652	2.884	8.78	
1,3-Dichlorobenzene	1	0		5.83	60.04	50	**		3.004	3.607	20.08	
1,4-Dichlorobenzene-d4	1	0	I	5.88	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.90	52.97	50	20		1.623	1.719	5.94	
1,2-Dichlorobenzene	1	0		6.02	52.33	50	**		1.553	1.625	4.66	
Benzyl alcohol	1	0		5.99	48.45	50	**		1.012	0.980	3.10	
bis(2-chloroisopropyl)ether	1	0		6.10	44.47	50	20	0.01	1.855	1.650	11.06	
2-Methylphenol	1	0		6.09	51.69	50	20	0.7	1.402	1.505	3.39	
Acetophenone	1	0		6.21	44.20	50	20	0.01	2.087	1.845	11.59	
Hexachloroethane	1	0		6.29	50.66	50	20	0.3	0.592	0.599	1.32	
N-Nitroso-di-n-propylamine	1	0		6.21	49.98	50	20	0.5	1.112	1.112	0.04	
3&4-Methylphenol	1	0		6.21	52.33	50	20		1.398	1.566	4.66	
Naphthalene-d8	1	0	I	6.89	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.33	28.03	25	**		0.173	0.193	12.13	
Nitrobenzene	1	0		6.34	48.22	50	20	0.2	0.410	0.396	3.55	
Isophorone	1	0		6.53	48.88	50	20	0.4	0.764	0.747	2.24	
2-Nitrophenol	1	0		6.59	54.41	50	20	0.1	0.194	0.223	8.82	
2,4-Dimethylphenol	1	0		6.62	52.08	50	20	0.2	0.364	0.404	4.17	
Benzoic Acid	1	0		6.71	18.85	50	**		0.318	0.036	62.30	
bis(2-Chloroethoxy)methane	1	0		6.69	49.48	50	20	0.3	0.457	0.453	1.05	
2,4-Dichlorophenol	1	0		6.78	55.90	50	20	0.2	0.281	0.352	11.80	
1,2,4-Trichlorobenzene	1	0		6.85	55.66	50	**		0.335	0.373	11.32	
Naphthalene	1	0		6.91	53.79	50	20	0.7	1.157	1.167	7.58	
4-Chloroaniline	1	0		6.94	61.79	50	20	0.01	0.380	0.470	23.59	C1
Hexachlorobutadiene	1	0		7.00	58.72	50	20	0.01	0.182	0.213	17.44	
Caprolactam	1	0		7.21	48.28	50	20	0.01	0.132	0.126	3.44	
4-Chloro-3-methylphenol	1	0		7.31	51.18	50	20	0.2	0.349	0.366	2.37	
2-Methylnaphthalene	1	0		7.44	53.83	50	**	0.4	0.789	0.849	7.65	
1-Methylnaphthalene	1	0		7.52	53.13	50	**	0.4	0.757	0.805	6.26	
Methylnaphthalenes	1	0		7.44	106.90	100	**			0.826	6.90	
1,1'-Biphenyl	1	0		7.81	54.26	50	20	0.01	1.025	1.112	8.53	
Acenaphthene-d10	1	0	I	8.32	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.58	50.66	50	20	0.01	0.522	0.529	1.33	
Hexachlorocyclopentadiene	1	0		7.57	12.62	50	20	0.05	0.268	0.078	74.75	C1
2,4,6-Trichlorophenol	1	0		7.67	53.06	50	20	0.2	0.346	0.405	6.13	
2,4,5-Trichlorophenol	1	0		7.71	57.05	50	20	0.2	0.371	0.427	14.09	
2-Fluorobiphenyl	1	0	S	7.73	27.28	25	**		1.326	1.447	9.11	
2-Chloronaphthalene	1	0		7.84	54.15	50	20	0.8	1.096	1.189	8.31	
1,4-Dimethylnaphthalene	1	0		8.12	55.26	50	**		0.963	1.064	10.52	
Dimethylnaphthalenes	1	0		8.12	55.26	50	20			1.064	10.52	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M87025.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/4/2017 4:13:00 P Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.90	49.40	50	**		0.771	0.762	1.20	
2-Nitroaniline	1	0		7.91	50.78	50	20	0.01	0.402	0.408	1.56	
Coumarin	1	0		8.10	52.94		**		0.533			
Acenaphthylene	1	0		8.20	54.49	50	20	0.9	1.732	1.887	8.97	
Dimethylphthalate	1	0		8.06	54.10	50	20	0.01	1.347	1.457	8.19	
2,6-Dinitrotoluene	1	0		8.12	57.41	50	20	0.2	0.294	0.337	14.82	
Acenaphthene	1	0		8.35	54.20	50	20	0.9	1.136	1.232	8.41	
3-Nitroaniline	1	0		8.27	54.27	50	20	0.01	0.312	0.373	8.55	
2,4-Dinitrophenol	1	0		8.37	41.12	50	20	0.01	0.130	0.105	17.75	
Dibenzofuran	1	0		8.51	54.03	50	20	0.8	1.730	1.801	8.06	
2,4-Dinitrotoluene	1	0		8.48	52.68	50	20	0.2	0.415	0.466	5.37	
4-Nitrophenol	1	0		8.41	38.97	50	20	0.01	0.240	0.207	22.06	C1
2,3,4,6-Tetrachlorophenol	1	0		8.62	50.21	50	20	0.01	0.332	0.366	0.41	
Fluorene	1	0		8.83	55.25	50	20	0.9	1.337	1.477	10.51	
4-Chlorophenyl-phenylether	1	0		8.82	55.06	50	20	0.4	0.669	0.736	10.12	
Diethylphthalate	1	0		8.69	54.03	50	20	0.01	1.338	1.446	8.07	
4-Nitroaniline	1	0		8.83	51.10	50	20	0.01	0.377	0.408	2.20	
Atrazine	1	0		9.45	47.86	50	20	0.01	0.276	0.278	4.29	
Phenanthrene-d10	1	0	I	9.78	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.87	45.29	50	20	0.01	0.114	0.113	9.41	
n-Nitrosodiphenylamine	1	0		8.93	55.90	50	20	0.01	0.617	0.690	11.79	
2,4,6-Tribromophenol	1	0	S	9.07	63.49	50	**		0.099	0.134	26.97	
1,2-Diphenylhydrazine	1	0		8.97	48.36	50	**		0.740	0.716	3.29	
4-Bromophenyl-phenylether	1	0		9.30	58.83	50	20	0.1	0.217	0.256	17.66	
Hexachlorobenzene	1	0		9.38	59.28	50	20	0.1	0.239	0.283	18.55	
N-Octadecane	1	0		9.63	54.29	50	**	0.05	0.406	0.440	8.57	
Pentachlorophenol	1	0		9.59	29.83	50	20	0.05	0.116	0.071	40.33	C1
Phenanthrene	1	0		9.81	53.43	50	20	0.7	1.115	1.192	6.85	
Anthracene	1	0		9.86	55.34	50	20	0.7	1.107	1.225	10.68	
Carbazole	1	0		10.04	53.58	50	20	0.01	1.074	1.151	7.17	
Di-n-butylphthalate	1	0		10.40	53.60	50	20	0.01	1.144	1.378	7.19	
Fluoranthene	1	0		11.15	54.08	50	20	0.6	1.258	1.361	8.17	
Chrysene-d12	1	0	I	12.85	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.41	55.89	50	20	0.6	1.085	1.213	11.79	
Benzidine	1	0		11.29	52.95	50	**		0.454	0.620	5.90	
Terphenyl-d14	1	0	S	11.58	28.84	25	**		0.594	0.685	15.36	
4,4'-DDE	1	0		11.52	58.02		**		0.242			
4,4'-DDD	1	0		11.92	59.11		**		0.463			
Butylbenzylphthalate	1	0		12.17	53.23	50	20	0.01	0.473	0.554	6.46	
4,4'-DDT	1	0		12.27	57.41		**		0.377			
3,3'-Dichlorobenzidine	1	0		12.80	64.99	50	20	0.01	0.336	0.499	29.99	C1
Benzo[a]anthracene	1	0		12.83	53.17	50	20	0.8	1.120	1.191	6.35	
Chrysene	1	0		12.87	51.43	50	20	0.7	1.048	1.078	2.86	
bis(2-Ethylhexyl)phthalate	1	0		12.86	53.71	50	20	0.01	0.627	0.751	7.42	
Perylene-d12	1	0	I	14.47	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.60	51.61	50	20	0.01	1.192	1.417	3.23	
Benzo[b]fluoranthene	1	0		14.05	56.33	50	20	0.7	1.213	1.366	12.66	
Benzo[k]fluoranthene	1	0		14.08	48.73	50	20	0.7	1.166	1.136	2.54	
Benzo[a]pyrene	1	0		14.41	53.51	50	20	0.7	1.123	1.202	7.03	
Indeno[1,2,3-cd]pyrene	1	0		15.82	57.43	50	20	0.5	1.151	1.322	14.86	
Dibenzo[a,h]anthracene	1	0		15.84	57.18	50	20	0.4	0.972	1.112	14.37	
Benzo[g,h,i]perylene	1	0		16.21	57.20	50	20	0.5	0.950	1.086	14.41	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M87025.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/4/2017 4:13:00 P Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.963	0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.773	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

7092827 0127

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M64985.D Method: EPA 8270D

Analysis Date/Time: 09/11/17 12:53

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	35265	2.50	75383	5.75	289381	6.76	181964	8.17	315451	9.62	354383	12.64	329776	14.24
Eval File Area Limit:	17632-70530		37692-150766		144690-578762		90982-363928		157726-630902		177192-708766		164888-659552	
Eval File Rt Limit:	2-3		5.25-6.25		6.26-7.26		7.67-8.67		9.12-10.12		12.14-13.14		13.74-14.74	

Data File	Sample														
10M64975.D	CAL BNA@10PPM	32208	2.50	68334	5.75	268864	6.76	171388	8.17	292677	9.61	338284	12.64	311911	14.24
10M64976.D	CAL BNA@196PPM	32571	2.50	72234	5.75	280842	6.77	177681	8.18	300829	9.62	337898	12.65	308802	14.25
10M64977.D	CAL BNA@160PPM	27541	2.50	60515	5.75	238187	6.76	154215	8.17	276473	9.62	320557	12.65	299384	14.25
10M64978.D	CAL BNA@120PPM	34615	2.50	74837	5.75	292395	6.76	186508	8.18	323232	9.62	362088	12.65	337174	14.25
10M64979.D	CAL BNA@80PPM	31993	2.50	71282	5.75	276755	6.76	178149	8.17	315241	9.62	345890	12.65	321889	14.24
10M64981.D	CAL BNA@20PPM	33868	2.50	71905	5.75	283028	6.76	178213	8.17	315136	9.62	366732	12.64	342612	14.24
10M64982.D	CAL BNA@2PPM	33915	2.50	71735	5.75	281829	6.76	176962	8.17	318752	9.61	366364	12.64	341565	14.24
10M64983.D	CAL BNA@.5PPM	36310	2.50	76457	5.75	299549	6.76	188660	8.17	329396	9.61	392746	12.64	367922	14.24
10M64984.D	CAL BNA@.25PPM	31693	2.50	66518	5.75	259327	6.76	161586	8.17	288281	9.61	323988	12.64	302006	14.24
10M64985.D	CAL BNA@50PPM	35265	2.50	75383	5.75	289381	6.76	181964	8.17	315451	9.62	354383	12.64	329776	14.24
10M64986.D	ICV BNA@50PPM	35339	2.50	74232	5.75	285410	6.76	181175	8.17	317546	9.62	350852	12.64	322097	14.24
10M64987.D	EXT MIX#1	34412	2.50	72975	5.75	284416	6.76	179882	8.17	318593	9.62	361962	12.64	339291	14.24
10M64988.D	EXT MIX#1(2ND)	35118	2.50	72552	5.75	292736	6.76	186676	8.17	327627	9.61	376144	12.64	348626	14.24

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12	**625/8270 Internal Standard concentration = 40 mg/L (in final extract)**
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10			**624/8260 Internal Standard concentration = 30ug/L**
I3 =	Naphthalene-d8	I6 =	Chrysene-d12			**524 Internal Standard concentration =5ug/L**

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

7092827 0128

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M86409.D Method: EPA 8270D

Analysis Date/Time: 09/11/17 13:22

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	44513	2.67	81341	5.88	333846	6.90	216185	8.34	407318	9.79	481166	12.85	436287	14.49
Eval File Area Limit:	22256-89026		40670-162682		166923-667692		108092-432370		203659-814636		240583-962332		218144-872574	
Eval File Rt Limit:	2.17-3.17		5.38-6.38		6.4-7.4		7.84-8.84		9.29-10.29		12.35-13.35		13.99-14.99	

Data File	Sample														
7M86403.D	CAL BNA@10PPM	36744	2.67	69500	5.88	291390	6.90	197241	8.34	382882	9.80	502748	12.84	473995	14.47
7M86404.D	CAL BNA@196PPM	36644	2.67	71365	5.88	312983	6.90	220438	8.34	422789	9.80	490801	12.85	460132	14.48
7M86405.D	CAL BNA@160PPM	37494	2.67	73689	5.88	311629	6.90	213898	8.34	408480	9.80	472636	12.85	433207	14.47
7M86406.D	CAL BNA@120PPM	39940	2.67	78143	5.88	329897	6.90	226107	8.34	434083	9.80	514554	12.85	478323	14.47
7M86407.D	CAL BNA@80PPM	41904	2.67	77920	5.88	323618	6.90	213313	8.34	408041	9.79	486212	12.85	451475	14.47
7M86409.D	CAL BNA@50PPM	44513	2.67	81341	5.88	333846	6.90	216185	8.34	407318	9.79	481166	12.85	436287	14.49
7M86410.D	CAL BNA@20PPM	39352	2.67	75725	5.88	321177	6.90	210445	8.34	396180	9.80	491773	12.84	452925	14.47
7M86411.D	CAL BNA@2PPM	36733	2.67	66985	5.88	272600	6.89	183277	8.33	355503	9.79	469676	12.84	434780	14.47
7M86412.D	CAL BNA@.25PPM	42687	2.67	69978	5.88	275839	6.90	179986	8.33	343013	9.80	418646	12.85	385512	14.51
7M86413.D	CAL BNA@.5PPM	46233	2.67	84320	5.88	338640	6.89	219575	8.33	410815	9.79	494741	12.84	455189	14.48
7M86414.D	ICV BNA@50PPM	45954	2.67	71832	5.88	282544	6.90	180658	8.34	340042	9.80	447040	12.85	432302	14.47

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12	**625/8270 Internal Standard concentration = 40 mg/L (in final extract)**
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10			**624/8260 Internal Standard concentration = 30ug/L**
I3 =	Naphthalene-d8	I6 =	Chrysene-d12			**524 Internal Standard concentration =5ug/L**

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

7092827 0129

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M86986.D Method: EPA 8270D

Analysis Date/Time: 10/03/17 15:31

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	25616	2.66	52859	5.88	213322	6.89	141694	8.32	263152	9.78	303745	12.84	269184	14.47
Eval File Area Limit:	12808-51232		26430-105718		106661-426644		70847-283388		131576-526304		151872-607490		134592-538368	
Eval File Rt Limit:	2.16-3.16		5.38-6.38		6.39-7.39		7.82-8.82		9.28-10.28		12.34-13.34		13.97-14.97	

Data File	Sample														
7M86987.D	AD00319-002(3X)	25980	2.66	56242	5.88	222103	6.89	144451	8.32	255419	9.78	264475	12.84	237699	14.47
7M86988.D	SMB63050(MS)	26095	2.66	55585	5.88	211307	6.89	133545	8.32	237116	9.78	248184	12.84	222447	14.47
7M86989.D	SMB63051(MS)	26393	2.66	57227	5.88	216383	6.89	136845	8.32	238333	9.78	243618	12.84	219889	14.47
7M86990.D	SMB63050	28185	2.66	58611	5.88	225972	6.89	142420	8.32	249508	9.78	256794	12.83	225468	14.47
7M86991.D	SMB63051	23886	2.66	50240	5.88	196061	6.89	123943	8.32	220347	9.78	228791	12.83	202169	14.47
7M86992.D	AD00275-021(R)	27209	2.66	57679	5.88	222254	6.88	138810	8.32	239313	9.78	241301	12.84	215365	14.47
7M86993.D	AD00298-002(5X)	26586	2.66	57292	5.88	220122	6.88	144445	8.32	257515	9.78	258554	12.84	240885	14.47
7M86994.D	AD00316-026(3X)	27834	2.66	58712	5.88	227238	6.89	145992	8.32	255399	9.78	249236	12.84	231785	14.47
7M86995.D	AD00275-006(3X)	26685	2.66	57210	5.88	221159	6.89	144119	8.32	254470	9.78	253675	12.84	240553	14.47
7M86996.D	AD00275-015(3X)	27687	2.66	58049	5.88	220919	6.89	143363	8.32	253640	9.78	250733	12.84	232680	14.47
7M86997.D	AD00275-025(3X)	28925	2.66	62322	5.88	243974	6.89	157587	8.32	274740	9.78	263825	12.84	251209	14.47
7M86998.D	AD00275-016	28561	2.66	58915	5.88	227259	6.89	144108	8.32	252040	9.78	249137	12.84	236400	14.47
7M86999.D	AD00275-017	30291	2.66	64057	5.88	244280	6.89	156993	8.32	267612	9.78	269718	12.84	269742	14.47
7M87000.D	AD00275-018	25506	2.66	53874	5.88	206795	6.89	133818	8.32	230988	9.78	230293	12.84	220353	14.47
7M87001.D	AD00275-019	28018	2.66	58801	5.88	227087	6.89	143386	8.32	249891	9.78	254887	12.83	238439	14.47
7M87002.D	AD00275-020	28136	2.66	60034	5.88	230257	6.89	147901	8.32	253890	9.78	258405	12.84	249075	14.47
7M87003.D	AD00275-022	27538	2.66	58600	5.88	223963	6.89	141496	8.32	243770	9.78	245591	12.84	239973	14.47
7M87004.D	AD00275-023	27602	2.66	59273	5.88	227261	6.89	145570	8.32	254580	9.78	253437	12.84	239437	14.47
7M87005.D	AD00275-024	28048	2.66	59577	5.88	229935	6.89	146789	8.32	253619	9.78	253325	12.84	240039	14.47
7M87006.D	AD00275-026	24662	2.66	51266	5.88	200985	6.89	130876	8.32	228661	9.78	228377	12.84	218659	14.47

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10			624/8260 Internal Standard concentration = 30ug/L
I3 =	Naphthalene-d8	I6 =	Chrysene-d12			524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

7092827 0130

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M65316.D Method: EPA 8270D

Analysis Date/Time: 10/04/17 08:55

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	24874	2.49	53031	5.75	204317	6.75	129314	8.17	222634	9.61	257094	12.64	241376	14.24
Eval File Area Limit:	12437-49748		26516-106062		102158-408634		64657-258628		111317-445268		128547-514188		120688-482752	
Eval File Rt Limit:	1.99-2.99		5.25-6.25		6.25-7.25		7.67-8.67		9.11-10.11		12.14-13.14		13.74-14.74	

Data File	Sample														
10M65317.D	SMB63050	37140	2.50	77220	5.75	299445	6.75	179670	8.17	301901	9.61	307964	12.64	250691	14.24
10M65318.D	TEST63051	33368	2.50	68964	5.75	263685	6.75	158078	8.17	258943	9.61	256358	12.64	215658	14.24
10M65319.D	AD00192-002	35240	2.50	73551	5.75	272709	6.75	167898	8.17	276762	9.61	262695	12.64	229293	14.24
10M65320.D	AD00192-002(MS)	36464	2.50	79422	5.75	304925	6.75	177766	8.17	282055	9.61	251890	12.64	223051	14.24
10M65321.D	AD00192-002(MSD)	36216	2.50	80060	5.75	301004	6.75	181376	8.17	276660	9.61	258894	12.64	238932	14.24
10M65322.D	AD00192-005	32369	2.50	66560	5.75	245688	6.75	145915	8.17	241863	9.61	261228	12.64	241236	14.24
10M65323.D	AD00290-002	32721	2.50	71662	5.75	265785	6.75	159891	8.17	253788	9.61	257389	12.64	237576	14.24
10M65324.D	AD00290-004	29756	2.50	65621	5.75	240523	6.75	144152	8.17	231718	9.61	227498	12.64	219284	14.24
10M65325.D	AD00290-006	32231	2.50	70808	5.75	262070	6.75	154134	8.17	249427	9.61	230419	12.64	219589	14.24
10M65326.D	AD00290-008	35644	2.50	77427	5.75	287670	6.75	168335	8.17	270181	9.61	251835	12.64	238484	14.24
10M65327.D	AD00290-010	28613	2.50	63844	5.75	248942	6.75	149228	8.17	243796	9.61	234173	12.64	231196	14.24
10M65328.D	AD00290-012	31053	2.50	69072	5.75	261462	6.75	159633	8.17	259442	9.61	244244	12.64	238751	14.24
10M65329.D	AD00290-014	34310	2.50	68423	5.75	256750	6.75	153657	8.17	247024	9.61	233344	12.64	226548	14.24
10M65330.D	SMB63051	31312	2.50	67093	5.75	254024	6.75	147840	8.17	237039	9.61	221177	12.64	211698	14.24
10M65331.D	WMB63064	23985	2.50	51941	5.75	206276	6.75	134951	8.17	242320	9.61	265256	12.64	246404	14.24
10M65332.D	AD00333-001	23250	2.49	46838	5.75	184139	6.75	114597	8.17	200305	9.61	225840	12.64	208934	14.24
10M65333.D	AD00333-003	23481	2.50	47638	5.75	183903	6.75	114390	8.17	199988	9.61	224793	12.64	207159	14.24
10M65334.D	AD00346-025	25196	2.49	52275	5.75	206673	6.75	133104	8.17	232703	9.61	245977	12.64	222374	14.24
10M65335.D	AD00354-001	29183	2.49	61007	5.75	242217	6.75	152697	8.17	263279	9.61	286229	12.64	254528	14.24
10M65336.D	AD00354-002	28365	2.50	58745	5.75	230525	6.75	147009	8.17	254042	9.61	277411	12.64	253069	14.24
10M65337.D	AD00354-003	25082	2.50	52481	5.75	206414	6.75	128103	8.17	225692	9.61	247175	12.64	214220	14.24
10M65338.D	AD00354-004	31084	2.50	64497	5.75	251620	6.75	159974	8.17	272510	9.61	295583	12.64	268902	14.24
10M65339.D	AD00354-005	27629	2.50	57557	5.75	223105	6.75	141046	8.17	253816	9.61	269823	12.64	246067	14.24

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12	**625/8270 Internal Standard concentration = 40 mg/L (in final extract)**
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10			**624/8260 Internal Standard concentration = 30ug/L**
I3 =	Naphthalene-d8	I6 =	Chrysene-d12			**524 Internal Standard concentration =5ug/L**

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

7092827 0131

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M87008.D Method: EPA 8270D

Analysis Date/Time: 10/04/17 08:55

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	24726	2.65	49934	5.88	195904	6.89	126546	8.33	229824	9.79	273089	12.85	253383	14.47
Eval File Area Limit:	12363-49452		24967-99868		97952-391808		63273-253092		114912-459648		136544-546178		126692-506766	
Eval File Rt Limit:	2.15-3.15		5.38-6.38		6.39-7.39		7.83-8.83		9.29-10.29		12.35-13.35		13.97-14.97	

Data File	Sample														
7M87009.D	AD00361-027	26082	2.66	58080	5.88	221275	6.89	140802	8.32	240678	9.78	243759	12.84	224396	14.47
7M87010.D	AD00361-029	24364	2.66	54103	5.88	204060	6.89	129893	8.33	225022	9.79	224328	12.84	215785	14.48
7M87011.D	AD00356-001(5X)(MS)	25751	2.66	57213	5.88	225935	6.89	147181	8.33	256564	9.79	248290	12.84	244431	14.48
7M87012.D	AD00350-001	24290	2.66	51327	5.88	200969	6.89	129012	8.33	217336	9.79	203604	12.84	200209	14.49
7M87013.D	AD00275-035	29051	2.66	62072	5.88	230513	6.89	140106	8.33	236427	9.79	218866	12.84	211203	14.48
7M87014.D	AD00286-001(5X)	26839	2.66	59304	5.88	232172	6.89	150330	8.33	240109	9.79	254479	12.85	263043	14.51
7M87015.D	AD00356-001(5X)	26353	2.66	57945	5.88	228932	6.89	148693	8.33	250991	9.79	242614	12.85	245296	14.49
7M87016.D	AD00356-001(5X)(MS	26484	2.66	57217	5.88	231021	6.89	148818	8.33	254579	9.79	242709	12.84	245117	14.49
7M87017.D	AD00361-020(5X)	27993	2.66	61646	5.88	244301	6.89	166534	8.33	288053	9.79	284228	12.84	274387	14.48
7M87018.D	AD00361-021(5X)	28486	2.66	62633	5.88	244666	6.89	158548	8.33	266910	9.78	256272	12.84	250892	14.49
7M87019.D	AD00361-022(5X)	27538	2.66	61349	5.88	238065	6.89	153390	8.32	265841	9.78	259111	12.84	248682	14.49
7M87020.D	AD00361-023(5X)	30870	2.66	62553	5.88	233668	6.89	148855	8.32	252395	9.78	261785	12.84	258230	14.47
7M87021.D	AD00361-024(5X)	26717	2.66	56921	5.88	223009	6.89	142392	8.32	241553	9.78	239736	12.84	229777	14.51
7M87022.D	AD00361-025(5X)	30881	2.66	62967	5.88	239110	6.89	148439	8.33	246554	9.78	242226	12.84	235651	14.48
7M87023.D	AD00298-002(5X)(R)	26606	2.66	61959	5.88	248060	6.89	158164	8.32	262066	9.78	251270	12.84	253946	14.48

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10			624/8260 Internal Standard concentration = 30ug/L
I3 =	Naphthalene-d8	I6 =	Chrysene-d12			524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 7M87025.D Method: EPA 8270D

Analysis Date/Time: 10/04/17 16:13

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	23890	2.66	51374	5.88	204664	6.89	133354	8.32	250122	9.78	288807	12.85	264566	14.47
Eval File Area Limit:	11945-47780		25687-102748		102332-409328		66677-266708		125061-500244		144404-577614		132283-529132	
Eval File Rt Limit:	2.16-3.16		5.38-6.38		6.39-7.39		7.82-8.82		9.28-10.28		12.35-13.35		13.97-14.97	

Data File	Sample														
7M87026.D	SMB63067(MS)	18935	2.65	44297	5.88	182833	6.89	123304	8.33	237641	9.79	282796	12.84	263683	14.47
7M87027.D	SMB63071(MS)	20133	2.65	48104	5.88	187992	6.89	121098	8.32	217378	9.78	242532	12.84	222717	14.47
7M87028.D	SMB63071	18086	2.65	43333	5.88	174844	6.88	116788	8.32	217996	9.78	246076	12.84	225290	14.47
7M87029.D	SMB63067	17090	2.65	40852	5.88	165593	6.88	115584	8.32	218795	9.78	264833	12.84	241614	14.47
7M87030.D	AD00346-004	18669	2.66	42687	5.88	175306	6.89	116895	8.32	218436	9.78	249520	12.84	231087	14.47
7M87031.D	AD00346-004(MS)	17072	2.65	41643	5.88	170994	6.89	116162	8.32	224403	9.78	265331	12.84	240350	14.47
7M87032.D	AD00346-004(MSD)	17747	2.65	43894	5.88	184916	6.89	126128	8.32	244032	9.78	291319	12.84	267836	14.47
7M87033.D	AD00172-001	16965	2.65	39795	5.88	167113	6.89	115368	8.32	222500	9.78	264823	12.84	241282	14.47
7M87034.D	AD00172-001(MS)	17965	2.65	42360	5.88	172509	6.89	115183	8.32	215614	9.78	253888	12.84	226551	14.47
7M87035.D	AD00172-001(MSD)	17880	2.65	43993	5.88	184390	6.89	122845	8.32	231976	9.78	273526	12.84	254238	14.47
7M87036.D	AD00374-002	21739	2.65	54449	5.88	215150	6.88	136843	8.32	241770	9.78	236647	12.84	220917	14.47
7M87037.D	AD00361-026(5X)	23334	2.65	54604	5.88	221151	6.88	148662	8.32	264669	9.78	252864	12.84	228408	14.47
7M87038.D	AD00361-028(5X)	22747	2.65	55025	5.88	228734	6.88	156857	8.32	282440	9.78	269699	12.84	247133	14.47
7M87039.D	AD00361-023(3X)	24391	2.65	56790	5.88	233953	6.88	155134	8.32	274439	9.78	260474	12.84	243641	14.47
7M87040.D	AD00275-030(3X)	22774	2.65	55481	5.88	227218	6.88	151686	8.32	272285	9.78	257843	12.84	240387	14.47
7M87041.D	AD00275-027(3X)	24605	2.65	58707	5.88	239208	6.88	158749	8.32	275716	9.78	258826	12.84	240503	14.47
7M87042.D	AD00275-028	20381	2.65	48078	5.88	194365	6.88	129027	8.32	225009	9.78	216634	12.84	206683	14.47
7M87043.D	AD00275-029	21759	2.65	55321	5.88	225300	6.89	148243	8.32	260038	9.78	255006	12.84	250697	14.47
7M87044.D	AD00275-031	22372	2.65	52750	5.88	216141	6.89	141422	8.32	245497	9.78	236417	12.84	227687	14.47
7M87045.D	AD00275-032	21337	2.65	52752	5.88	214287	6.89	138698	8.32	240484	9.78	232534	12.84	223053	14.47
7M87046.D	AD00275-033	20621	2.65	51251	5.88	206448	6.89	135832	8.32	236447	9.78	229181	12.84	220350	14.47
7M87047.D	AD00275-034	21936	2.65	52833	5.88	219549	6.88	147337	8.32	260928	9.78	248842	12.84	235910	14.47
7M87048.D	AD00286-001(3X)	23981	2.66	56603	5.88	230092	6.89	148104	8.32	238339	9.78	255902	12.86	268635	14.51

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10			624/8260 Internal Standard concentration = 30ug/L
I3 =	Naphthalene-d8	I6 =	Chrysene-d12			524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

PCB Data

Form1

ORGANICS PCB REPORT

Sample Number: AD00298-002
Client Id: 475 EXTERIOR NYRECYC
Data File: 3G103989.D
Analysis Date: 10/03/17 21:37
Date Rec/Extracted: 09/28/17-10/03/17
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.027	U	11097-69-1	Aroclor-1254	0.027	U
11104-28-2	Aroclor-1221	0.027	U	11096-82-5	Aroclor-1260	0.027	U
11141-16-5	Aroclor-1232	0.027	U	37324-23-5	Aroclor-1262	0.027	U
53469-21-9	Aroclor-1242	0.027	U	11100-14-4	Aroclor-1268	0.027	U
12672-29-6	Aroclor-1248	0.027	U	1336-36-3	Aroclor (Total)	0.027	U

Worksheet #: 439171

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2017\GC_3\Data\10-03-17\
Data File : 3G103989.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 3 Oct 2017 21:37
Operator : MS/MLC/ZM
Sample : AD00298-002
Misc : S,PCB
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 12:36:03 2017
Quant Method : G:\GCDATA\2017\GC_3\METHODQT\3G_C0911.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Sep 12 09:39:25 2017
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.827	3.865	351085	579830	70.384	70.601
45)DCB-Surrogate	9.979	10.655	318236	558327	61.801	64.608

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2017\GC_3\Data\10-03-17\
Data File : 3G103989.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 3 Oct 2017 21:37
Operator : MS/MLC/ZM
Sample : AD00298-002
Misc : S,PCB
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 12:36:03 2017
Quant Method : G:\GCDATA\2017\GC_3\METHODQT\3G_C0911.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Sep 12 09:39:25 2017
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

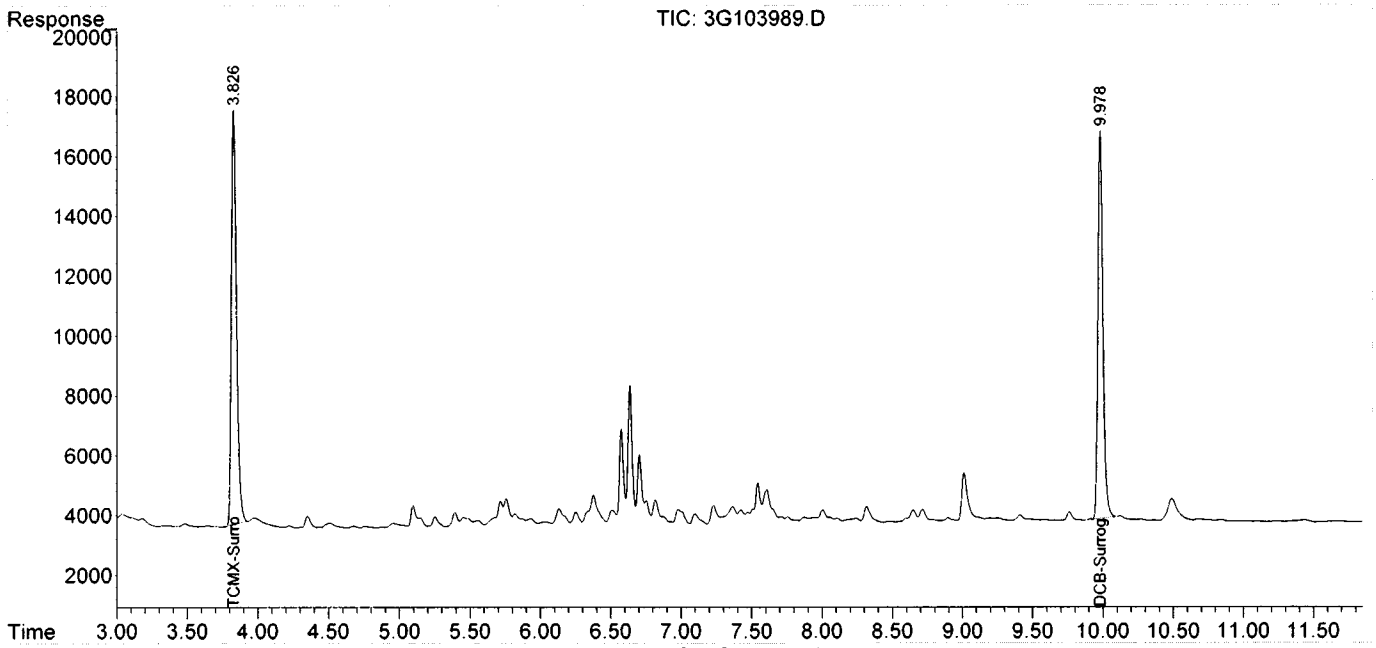

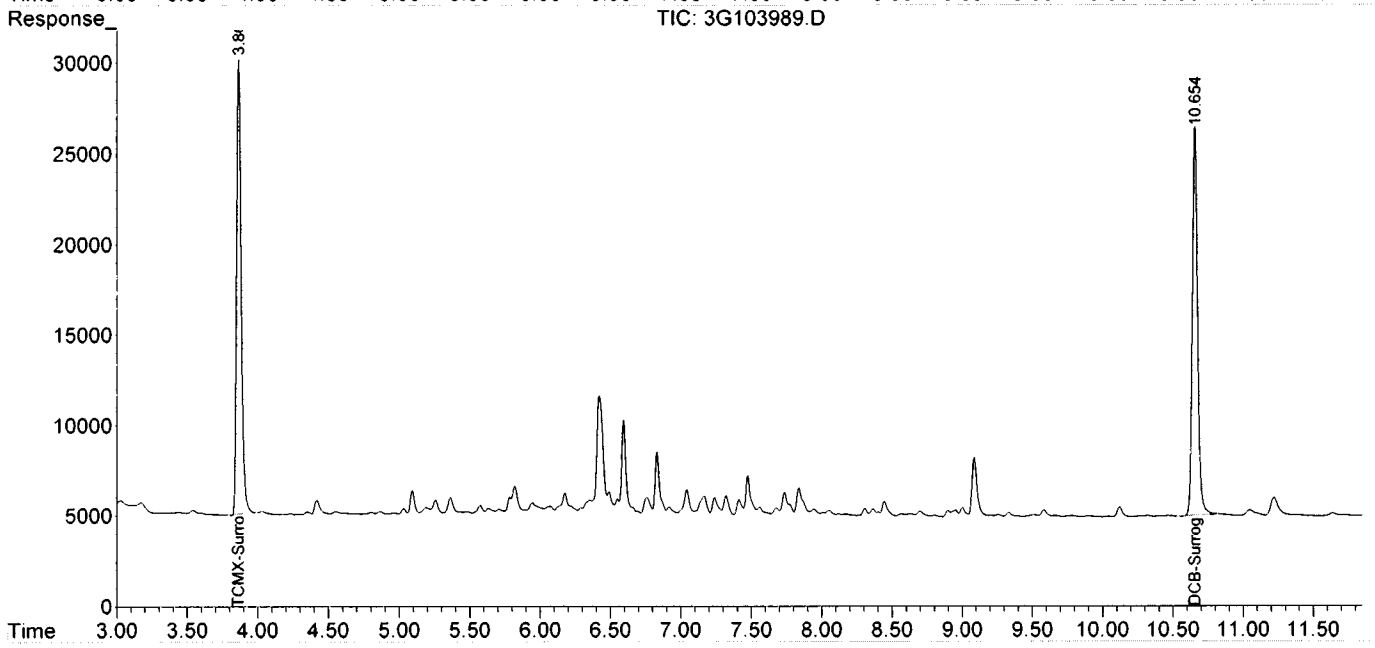

Form1

ORGANICS PCB REPORT

Sample Number: SMB63044
Client Id:
Data File: 3G103966.D
Analysis Date: 10/03/17 14:47
Date Rec/Extracted: NA-10/03/17
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.025	U	11097-69-1	Aroclor-1254	0.025	U
11104-28-2	Aroclor-1221	0.025	U	11096-82-5	Aroclor-1260	0.025	U
11141-16-5	Aroclor-1232	0.025	U	37324-23-5	Aroclor-1262	0.025	U
53469-21-9	Aroclor-1242	0.025	U	11100-14-4	Aroclor-1268	0.025	U
12672-29-6	Aroclor-1248	0.025	U				

Worksheet #: 439171

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2017\GC_3\Data\10-03-17\
Data File : 3G103966.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 3 Oct 2017 14:47
Operator : MS/MLC/ZM
Sample : SMB63044
Misc : S,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 03 16:25:12 2017
Quant Method : G:\GCDATA\2017\GC_3\METHODQT\3G_C0911.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Sep 12 09:39:25 2017
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.829	3.863	429523	702966	86.109	85.594
45)DCB-Surrogate	9.984	10.654	352237	662667	68.483	76.916m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2017\GC_3\Data\10-03-17\
Data File : 3G103966.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 3 Oct 2017 14:47
Operator : MS/MLC/ZM
Sample : SMB63044
Misc : S,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 03 16:25:12 2017
Quant Method : G:\GCDATA\2017\GC_3\METHODQT\3G_C0911.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Sep 12 09:39:25 2017
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

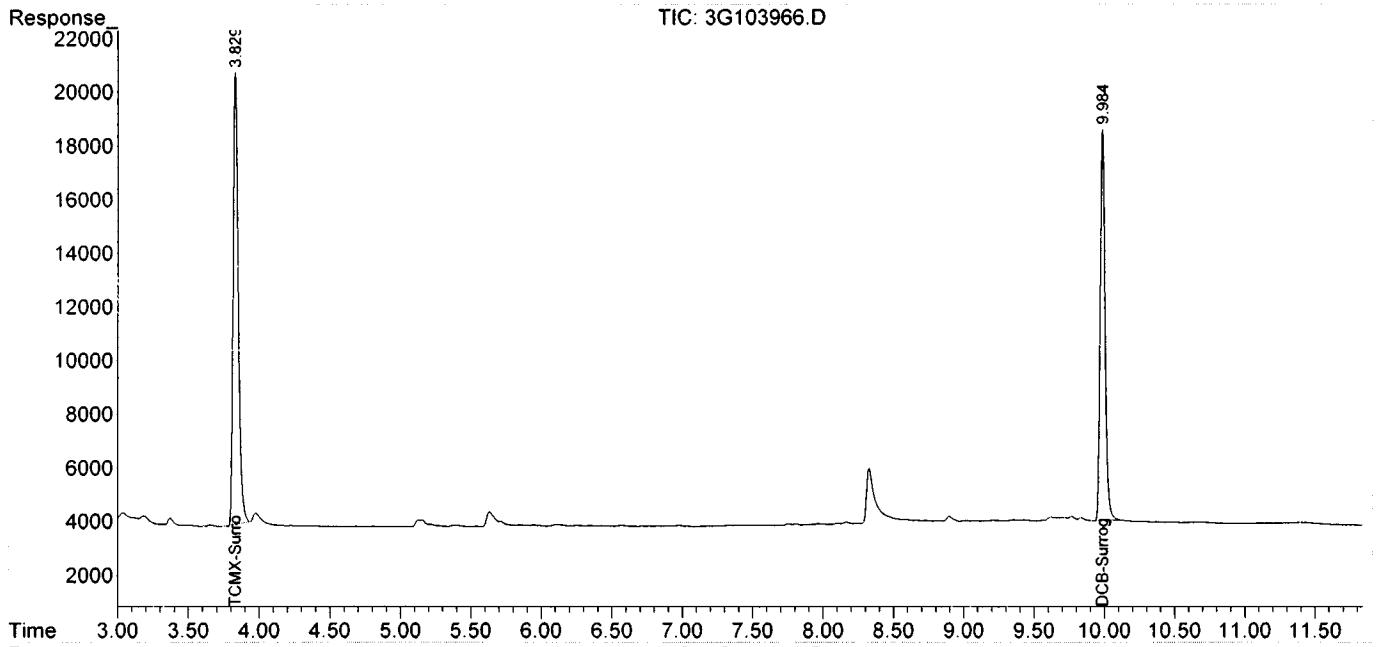

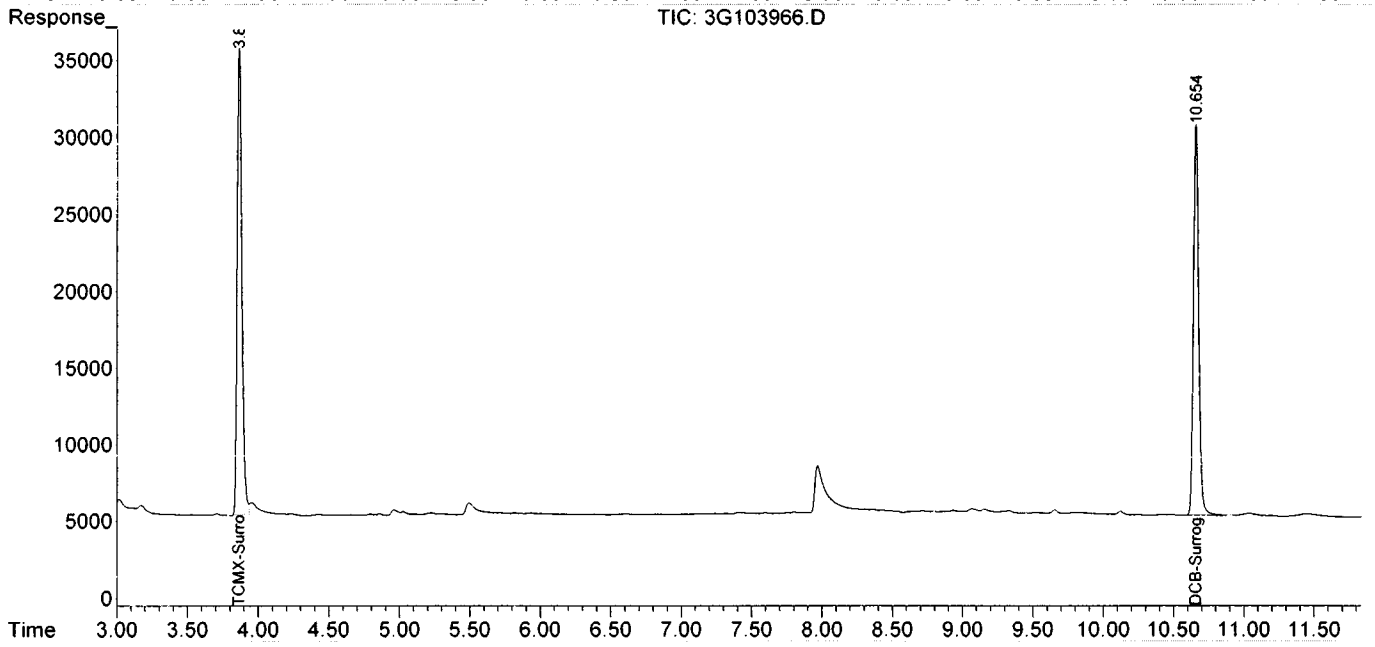

FORM2

Surrogate Recovery

Method: EPA 8082A

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column1 S3 Recov	Column2 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
3G103966.D	SMB63044	S	10/03/17 14:47	1		86	86	68	77		
3G103989.D	AD00298-002	S	10/03/17 21:37	1		70	71	62	65		
3G103967.D	SMB63044(MS)	S	10/03/17 15:02	1		85	84	70	77		
3G103984.D	AD00316-027(MS)	S	10/03/17 20:22	1		91	84	87	89		
3G103985.D	AD00316-027(MSD)	S	10/03/17 20:37	1		84	80	74	82		
3G103986.D	AD00316-027	S	10/03/17 20:52	1		90	86	79	85		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8082A

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	37-141
S2=TCMX-Surrogate	100	37-141
S3=DCB-Surrogate	100	34-146
S4=DCB-Surrogate	100	34-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63044

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G103967.D	SMB63044(MS)	10/3/2017 3:02:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	904.983	0	1000	90	30	163
Aroclor-1260 -Total	1	939.611	0	1000	94	25	166

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63044

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G103984.D	AD00316-027(MS)	10/3/2017 8:22:00 PM
Non Spike(If applicable):	3G103986.D	AD00316-027	10/3/2017 8:52:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	938.805	0	1000	94	30	163
Aroclor-1260 -Total	1	1101.776	0	1000	110	25	166

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G103985.D	AD00316-027(MSD)	10/3/2017 8:37:00 PM
Non Spike(If applicable):	3G103986.D	AD00316-027	10/3/2017 8:52:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	909.366	0	1000	91	30	163
Aroclor-1260 -Total	1	1057.785	0	1000	106	25	166

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: SMB63044

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G103985.D	AD00316-027(MSD)	10/3/2017 8:37:00 PM
Duplicate(If applicable):	3G103984.D	AD00316-027(MS)	10/3/2017 8:22:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Aroclor-1016 -Total	1	909.366	938.805	3.2	40
Aroclor-1260 -Total	1	1057.785	1101.776	4.1	37

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: SMB63044
Blank Data File: 3G103966.D
Matrix: Soil

Blank Analysis Date: 10/03/17 14:47
Blank Extraction Date: 10/03/17
(If Applicable)
Method: EPA 8082A

Sample Number	Data File	Analysis Date
AD00298-002	3G103989.D	10/03/17 21:37
AD00316-027	3G103986.D	10/03/17 20:52
AD00316-027(MSD	3G103985.D	10/03/17 20:37
AD00316-027(MS)	3G103984.D	10/03/17 20:22
SMB63044(MS)	3G103967.D	10/03/17 15:02

Form 5

Method: EPA 8082A

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G103438.D	1000	09/11/17 12:16	Soil					
3G103442.D	CAL 3268@500PPB	09/11/17 13:55	Soil	3G10345	9.9848	0.007	10.6554	0.0131
3G103443.D	CAL 1242@500PPB	09/11/17 14:10	Soil	3G10345	9.9856	0.015	10.6559	0.0178
3G103444.D	CAL 1248@500PPB	09/11/17 14:28	Soil	3G10345	9.9886	0.0451	10.6574	0.0319
3G103445.D	CAL 2154@500PPB	09/11/17 14:43	Soil	3G10345	9.9847	0.006	10.6534	0.0056
3G103446.D	CAL 1262@500PPB	09/11/17 14:58	Soil	3G10345	9.9849	0.008	10.6548	0.0075
3G103447.D	50PPB	09/11/17 15:13	Soil	3G10345	9.9859	0.018	10.6562	0.0206
3G103448.D	CAL 1660@200PPB	09/11/17 15:28	Soil	3G10345	9.9849	0.008	10.6558	0.0169
3G103449.D	50PPB	09/11/17 16:04	Soil	3G10345	9.9963	0.1221	10.6614	0.0694
3G103450.D	4000PPB	09/11/17 17:18	Soil	3G10345	9.9875	0.034	10.6542	0.0019
3G103451.D	CAL 1660@500PPB	09/11/17 17:33	Soil	3G10345	9.9847	0.006	10.6537	0.0028
3G103452.D	CAL 1660@1000PPB	09/11/17 17:48	Soil	3G10345	9.9831	0.01	10.6530	0.0094
3G103453.D	CAL 1660@2000PPB	09/11/17 18:03	Soil	3G10345	9.9827	0.014	10.6526	0.0131
3G103454.D	CAL 1660@50PPB	09/11/17 18:18	Soil	3G10345	9.9841	0	10.6540	0
3G103455.D	CAL 1660@4000PPB	09/11/17 18:33	Soil	3G10345	9.9825	0.016	10.6528	0.0113
3G103456.D	ICV	09/11/17 18:48	Soil	3G10345	9.9822	0.019	10.6531	0.0085
3G103457.D	PEST WS	09/11/17 19:03	Soil	3G10345	0.0000	200 *	0.0000	200 *

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8082A

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G103962.D	CAL 1660@500PPB	10/03/17 10:53	Soil	3G10396	9.9827	0	10.6515	0
3G103963.D	271-001	10/03/17 13:05	Soil	3G10396	9.9856	0.029	10.6544	0.0272
3G103964.D	AD00271-001	10/03/17 13:45	Soil	3G10396	9.9865	0.0381	10.6556	0.0385
3G103965.D	CAL 1660@500PPB	10/03/17 14:26	Soil	3G10396	9.9860	0.033	10.6550	0.0329
3G103966.D	SMB63044	10/03/17 14:47	Soil	3G10396	9.9843	0.017	10.6541	0.0084
3G103967.D	SMB63044(MS)	10/03/17 15:02	Soil	3G10396	9.9790	0.0701	10.6533	0.016
3G103968.D	SMB63045	10/03/17 15:17	Soil	3G10396	9.9793	0.0671	10.6544	0.0056
3G103969.D	SMB63045(MS)	10/03/17 15:32	Soil	3G10396	9.9780	0.0801	10.6538	0.0113
3G103970.D	WMB63055(MS)	10/03/17 15:46	Aqueous	3G10396	9.9787	0.0731	10.6549	0.0009
3G103971.D	WMB63055	10/03/17 16:21	Aqueous	3G10396	9.9854	0.006	10.6544	0.0056
3G103972.D	AD00301-015	10/03/17 17:12	Aqueous	3G10396	9.9861	0.001	10.6551	0.0009
3G103973.D	AD00358-011	10/03/17 17:27	Aqueous	3G10396	9.9793	0.0671	10.6548	0.0019
3G103974.D	AD00317-011	10/03/17 17:41	Aqueous	3G10396	9.9783	0.0771	10.6540	0.0094
3G103975.D	AD00309-007	10/03/17 17:56	Aqueous	3G10396	9.9772	0.0882	10.6533	0.016
3G103976.D	TEST(PCB SPK)	10/03/17 18:11	Aqueous	3G10396	9.9777	0.0831	10.6539	0.0103
3G103977.D	AD00301-001	10/03/17 18:38	Soil	3G10396	9.9852	0.008	10.6559	0.0084
3G103978.D	AD00301-002	10/03/17 18:53	Soil	3G10396	9.9802	0.0581	10.6539	0.0103
3G103979.D	AD00301-003	10/03/17 19:08	Soil	3G10396	9.9795	0.0651	10.6537	0.0122
3G103980.D	AD00301-004	10/03/17 19:23	Soil	3G10396	9.9787	0.0731	10.6535	0.0141
3G103981.D	AD00301-005	10/03/17 19:38	Soil	3G10396	9.9792	0.0681	10.6538	0.0113
3G103982.D	1000PPB	10/03/17 19:53	Soil	3G10396	9.9795	0.0651	10.6556	0.0056
3G103983.D	CAL 1660@2000PPB	10/03/17 20:07	Soil	3G10396	9.9794	0.0661	10.6554	0.0038
3G103984.D	AD00316-027(MS)	10/03/17 20:22	Soil	3G10398	9.9793	0.001	10.6550	0.0038
3G103985.D	AD00316-027(MSD)	10/03/17 20:37	Soil	3G10398	9.9787	0.007	10.6545	0.0084
3G103986.D	AD00316-027	10/03/17 20:52	Soil	3G10398	9.9790	0.004	10.6551	0.0028
3G103987.D	AD00316-026	10/03/17 21:07	Soil	3G10398	9.9788	0.006	10.6537	0.016
3G103988.D	AD00316-028	10/03/17 21:22	Soil	3G10398	9.9800	0.006	10.6559	0.0047
3G103989.D	AD00298-002	10/03/17 21:37	Soil	3G10398	9.9793	0.001	10.6548	0.0056
3G103990.D	AD00301-006	10/03/17 21:51	Soil	3G10398	9.9802	0.008	10.6557	0.0028
3G103991.D	AD00301-007	10/03/17 22:06	Soil	3G10398	9.9794	0	10.6561	0.0066
3G103992.D	AD00301-008	10/03/17 22:21	Soil	3G10398	9.9797	0.003	10.6561	0.0066
3G103993.D	AD00301-009	10/03/17 22:36	Soil	3G10398	9.9812	0.018	10.6565	0.0103
3G103994.D	AD00301-010	10/03/17 22:52	Soil	3G10398	9.9804	0.01	10.6556	0.0019
3G103995.D	AD00301-011	10/03/17 23:06	Soil	3G10398	9.9793	0.001	10.6551	0.0028
3G103996.D	AD00301-012	10/03/17 23:21	Soil	3G10398	9.9798	0.004	10.6556	0.0019
3G103997.D	AD00301-013	10/03/17 23:36	Soil	3G10398	9.9810	0.016	10.6568	0.0131
3G103998.D	AD00301-014	10/03/17 23:52	Soil	3G10398	9.9800	0.006	10.6560	0.0056
3G103999.D	1000PPB	10/04/17 00:06	Soil	3G10398	9.9798	0.004	10.6567	0.0122
3G104000.D	CAL 1660@2000PPB	10/04/17 00:21	Soil	3G10398	9.9805	0.011	10.6562	0.0075
3G104001.D	AD00309-001(MS)	10/04/17 00:37	Soil	3G10400	9.9794	0.011	10.6537	0.0235
3G104002.D	AD00309-001(MSD)	10/04/17 00:52	Soil	3G10400	9.9808	0.003	10.6559	0.0028
3G104003.D	AD00309-001	10/04/17 01:07	Soil	3G10400	9.9814	0.009	10.6571	0.0084
3G104004.D	AD00309-006	10/04/17 01:22	Soil	3G10400	9.9827	0.022	10.6584	0.0206
3G104005.D	AD00309-004	10/04/17 01:37	Soil	3G10400	9.9834	0.0291	10.6587	0.0235
3G104006.D	AD00309-005	10/04/17 01:52	Soil	3G10400	9.9828	0.023	10.6578	0.015
3G104007.D	AD00296-012	10/04/17 02:07	Soil	3G10400	9.9829	0.024	10.6579	0.0159
3G104008.D	BLK	10/04/17 02:22	Soil	3G10400	9.9831	0.026	10.6580	0.0169
3G104009.D	1000PPB	10/04/17 02:37	Soil	3G10400	9.9820	0.015	10.6584	0.0206
3G104010.D	CAL 1660@2000PPB	10/04/17 02:53	Soil	3G10400	9.9831	0.026	10.6585	0.0216

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G103454.D	CAL 1660@50PPB	09/11/17 18:18	2	3G103448.D	CAL 1660@200PPB	09/11/17 15:28
3	3G103451.D	CAL 1660@500PPB	09/11/17 17:33	4	3G103452.D	CAL 1660@1000PPB	09/11/17 17:48
5	3G103453.D	CAL 1660@2000PPB	09/11/17 18:03	6	3G103455.D	CAL 1660@4000PPB	09/11/17 18:33
7	3G103442.D	CAL 3268@500PPB	09/11/17 13:55	8	3G103443.D	CAL 1242@500PPB	09/11/17 14:10
9	3G103444.D	CAL 1248@500PPB	09/11/17 14:28	10	3G103445.D	CAL 2154@500PPB	09/11/17 14:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	Avg	0.5051	0.4680	0.4982	0.5036	0.5073	0.5105	----	----	0.499	3.83	1.00	1.00	3.1	5.00	20.00	50.00	100.0	200.0	400.0		
Aroclor-1016	1	1	Qua	0.0183	0.0150	0.0143	0.0136	0.0125	0.0120	----	----	0.0143	4.32	0.999	1.00	16	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	2	Qua	0.0338	0.0298	0.0274	0.0259	0.0237	0.0218	----	----	0.0271	4.68	0.997	1.00	16	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	3	Qua	0.0637	0.0539	0.0518	0.0498	0.0463	0.0432	----	----	0.0515	5.13	0.998	1.00	14	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	4	Avg	0.0178	0.0160	0.0160	0.0158	0.0151	0.0145	----	----	0.0159	5.37	0.999	1.00	7.0	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	5	Qua	0.0427	0.0380	0.0357	0.0350	0.0322	0.0301	----	----	0.0357	5.49	0.998	1.00	13	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	1	Qua	0.0361	0.0383	0.0301	0.0290	0.0266	0.0255	----	----	0.0310	6.98	0.999	1.00	17	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	2	Qua	0.0420	0.0484	0.0359	0.0335	0.0309	0.0294	----	----	0.0367	7.23	0.999	0.999	20	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	3	Avg	0.0196	0.0212	0.0172	0.0171	0.0166	0.0169	----	----	0.0182	7.42	1.00	1.00	10	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	4	Qua	0.0263	0.0224	0.0221	0.0217	0.0203	0.0200	----	----	0.0222	8.00	1.00	1.00	10	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	5	Avg	0.0366	0.0336	0.0345	0.0357	0.0322	0.0334	----	----	0.0344	8.72	0.999	0.999	4.7	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1221	1	1	Avg	----	----	----	----	----	----	----	----	0.00675	4.12	-1	-1	Lvl=10	500.0							
Aroclor-1221	1	2	Avg	----	----	----	----	----	----	----	----	0.00420	4.26	-1	-1	Lvl=10	500.0							
Aroclor-1221	1	3	Avg	----	----	----	----	----	----	----	----	0.0204	4.32	-1	-1	Lvl=10	500.0							
Aroclor-1232	1	1	Avg	----	----	----	----	----	----	----	----	0.0144	4.32	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	2	Avg	----	----	----	----	----	----	----	----	0.0124	4.68	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	3	Avg	----	----	----	----	----	----	----	----	0.0215	5.14	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	4	Avg	----	----	----	----	----	----	----	----	0.0101	5.27	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	5	Avg	----	----	----	----	----	----	----	----	0.00994	5.73	-1	-1	Lvl=7	500.0							
Aroclor-1242	1	1	Avg	----	----	----	----	----	----	----	----	0.0124	4.32	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	2	Avg	----	----	----	----	----	----	----	----	0.0220	4.68	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	3	Avg	----	----	----	----	----	----	----	----	0.0405	5.14	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	4	Avg	----	----	----	----	----	----	----	----	0.0272	5.49	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	5	Avg	----	----	----	----	----	----	----	----	0.0168	5.73	-1	-1	Lvl=8	500.0							
Aroclor-1248	1	1	Avg	----	----	----	----	----	----	----	----	0.0106	4.68	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	2	Avg	----	----	----	----	----	----	----	----	0.0239	5.14	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	3	Avg	----	----	----	----	----	----	----	----	0.0411	5.48	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	4	Avg	----	----	----	----	----	----	----	----	0.0209	5.83	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	5	Avg	----	----	----	----	----	----	----	----	0.0239	6.42	-1	-1	Lvl=9	500.0							
Aroclor-1254	1	1	Avg	----	----	----	----	----	----	----	----	0.0107	6.62	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	2	Avg	----	----	----	----	----	----	----	----	0.0353	6.82	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	3	Avg	----	----	----	----	----	----	----	----	0.0240	6.98	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	4	Avg	----	----	----	----	----	----	----	----	0.0376	7.10	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	5	Avg	----	----	----	----	----	----	----	----	0.0150	7.48	-1	-1	Lvl=10	500.0							
Aroclor-1262	1	1	Avg	----	----	----	----	----	----	----	----	0.0365	7.65	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	2	Avg	----	----	----	----	----	----	----	----	0.0208	8.65	-1	-1	Lvl=11	500.0							

Avg Rsd Col 1: 11.78 Avg Rsd Col 2: 18.49

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

7092827 0147

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G103454.D	CAL 1660@50PPB	09/11/17 18:18	2	3G103448.D	CAL 1660@200PPB	09/11/17 15:28
3	3G103451.D	CAL 1660@500PPB	09/11/17 17:33	4	3G103452.D	CAL 1660@1000PPB	09/11/17 17:48
5	3G103453.D	CAL 1660@2000PPB	09/11/17 18:03	6	3G103455.D	CAL 1660@4000PPB	09/11/17 18:33
7	3G103442.D	CAL 3268@500PPB	09/11/17 13:55	8	3G103443.D	CAL 1242@500PPB	09/11/17 14:10
9	3G103444.D	CAL 1248@500PPB	09/11/17 14:28	10	3G103445.D	CAL 2154@500PPB	09/11/17 14:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
^Aroclor-1262	1	3	Avg	----	----	----	----	----	----	----	----	0.0416	8.71	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	4	Avg	----	----	----	----	----	----	----	----	0.0203	9.42	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	5	Avg	----	----	----	----	----	----	----	----	0.00670	9.77	-1	-1	Lvl=11	500.0							
Aroclor-1268	1	1	Avg	----	----	----	----	----	----	----	----	0.00524	8.00	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	2	Avg	----	----	----	----	----	----	----	----	0.00569	8.32	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	3	Avg	----	----	----	----	----	----	----	----	0.0505	8.89	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	4	Avg	----	----	----	----	----	----	----	----	0.0140	8.99	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	5	Avg	----	----	----	----	----	----	----	----	0.168	9.77	-1	-1	Lvl=7	500.0							
DCB-Surrogate	1	0	Qua	0.6581	0.5317	0.5356	0.5222	0.4959	0.4851	----	----	0.538	9.98	1.00	1.00	12	5.00	20.00	50.00	100.0	200.0	400.0		
TCMX-Surrogate	2	0	Avg	0.9085	0.8043	0.8058	0.8086	0.8021	0.7981	----	----	0.821	3.86	1.00	1.00	5.2	5.00	20.00	50.00	100.0	200.0	400.0		
Aroclor-1016	2	1	Qua	0.0332	0.0246	0.0210	0.0196	0.0180	0.0162	----	----	0.0221	4.45	0.997	1.00	28	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	2	Qua	0.0591	0.0499	0.0421	0.0390	0.0352	0.0322	----	----	0.0430	4.87	0.997	1.00	23	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	3	Qua	0.1143	0.0955	0.0835	0.0790	0.0732	0.0687	----	----	0.0858	5.25	0.999	1.00	20	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	4	Qua	0.0503	0.0424	0.0371	0.0353	0.0324	0.0302	----	----	0.0380	5.57	0.998	1.00	19	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	5	Qua	0.0361	0.0293	0.0267	0.0253	0.0235	0.0219	----	----	0.0272	5.94	0.998	1.00	19	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	1	Qua	0.0722	0.0587	0.0513	0.0483	0.0438	0.0413	----	----	0.0526	7.23	0.999	1.00	22	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	2	Qua	0.0771	0.0616	0.0550	0.0512	0.0471	0.0446	----	----	0.0562	7.32	0.999	1.00	21	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	3	Qua	0.0379	0.0245	0.0263	0.0219	0.0201	0.0190	----	----	0.0250	7.94	0.998	0.999	28	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	4	Qua	0.0563	0.0508	0.0489	0.0441	0.0424	0.0425	----	----	0.0476	8.30	1.00	1.00	12	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	5	Qua	0.0528	0.0427	0.0399	0.0401	0.0376	0.0382	----	----	0.0419	9.00	1.00	1.00	13	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1221	2	1	Avg	----	----	----	----	----	----	----	----	0.0118	4.24	-1	-1	Lvl=10	500.0							
Aroclor-1221	2	2	Avg	----	----	----	----	----	----	----	----	0.00783	4.38	-1	-1	Lvl=10	500.0							
Aroclor-1221	2	3	Avg	----	----	----	----	----	----	----	----	0.0260	4.45	-1	-1	Lvl=10	500.0							
Aroclor-1232	2	1	Avg	----	----	----	----	----	----	----	----	0.0193	4.45	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	2	Avg	----	----	----	----	----	----	----	----	0.0208	4.87	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	3	Avg	----	----	----	----	----	----	----	----	0.0362	5.25	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	4	Avg	----	----	----	----	----	----	----	----	0.0149	5.94	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	5	Avg	----	----	----	----	----	----	----	----	0.0123	6.08	-1	-1	Lvl=7	500.0							
Aroclor-1242	2	1	Avg	----	----	----	----	----	----	----	----	0.0187	4.45	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	2	Avg	----	----	----	----	----	----	----	----	0.0350	4.87	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	3	Avg	----	----	----	----	----	----	----	----	0.0671	5.24	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	4	Avg	----	----	----	----	----	----	----	----	0.0294	5.57	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	5	Avg	----	----	----	----	----	----	----	----	0.0248	5.94	-1	-1	Lvl=8	500.0							
Aroclor-1248	2	1	Avg	----	----	----	----	----	----	----	----	0.0166	4.87	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	2	Avg	----	----	----	----	----	----	----	----	0.0407	5.24	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	3	Avg	----	----	----	----	----	----	----	----	0.0318	5.57	-1	-1	Lvl=9	500.0							

Avg Rsd Col 1: 11.78 Avg Rsd Col 2: 18.49

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

7092827 0148

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G103454.D	CAL 1660@50PPB	09/11/17 18:18	2	3G103448.D	CAL 1660@200PPB	09/11/17 15:28
3	3G103451.D	CAL 1660@500PPB	09/11/17 17:33	4	3G103452.D	CAL 1660@1000PPB	09/11/17 17:48
5	3G103453.D	CAL 1660@2000PPB	09/11/17 18:03	6	3G103455.D	CAL 1660@4000PPB	09/11/17 18:33
7	3G103442.D	CAL 3268@500PPB	09/11/17 13:55	8	3G103443.D	CAL 1242@500PPB	09/11/17 14:10
9	3G103444.D	CAL 1248@500PPB	09/11/17 14:28	10	3G103445.D	CAL 2154@500PPB	09/11/17 14:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aroclor-1248	2	4	Avg	----	----	----	----	----	----	----	----	0.0293	6.08	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	5	Avg	----	----	----	----	----	----	----	----	0.0392	6.21	-1	-1	Lvl=9	500.0							
Aroclor-1254	2	1	Avg	----	----	----	----	----	----	----	----	0.0554	6.43	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	2	Avg	----	----	----	----	----	----	----	----	0.0183	6.77	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	3	Avg	----	----	----	----	----	----	----	----	0.0457	7.16	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	4	Avg	----	----	----	----	----	----	----	----	0.0216	7.67	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	5	Avg	----	----	----	----	----	----	----	----	0.0194	8.36	-1	-1	Lvl=10	500.0							
Aroclor-1262	2	1	Avg	----	----	----	----	----	----	----	----	0.0465	7.74	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	2	Avg	----	----	----	----	----	----	----	----	0.0362	8.89	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	3	Avg	----	----	----	----	----	----	----	----	0.0391	9.00	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	4	Avg	----	----	----	----	----	----	----	----	0.0449	9.58	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	5	Avg	----	----	----	----	----	----	----	----	0.0124	10.12	-1	-1	Lvl=11	500.0							
Aroclor-1268	2	1	Avg	----	----	----	----	----	----	----	----	0.00908	8.40	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	2	Avg	----	----	----	----	----	----	----	----	0.0148	8.44	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	3	Avg	----	----	----	----	----	----	----	----	0.0818	9.33	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	4	Avg	----	----	----	----	----	----	----	----	0.0213	9.48	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	5	Avg	----	----	----	----	----	----	----	----	0.274	10.12	-1	-1	Lvl=7	500.0							
DCB-Surrogate	2	0	Qua	1.1135	0.9019	0.9228	0.8717	0.8227	0.7938	----	----	0.904	10.65	0.999	1.00	13	5.00	20.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 11.78 Avg Rsd Col 2: 18.49

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

7092827 0149

Form7
Continuing Calibration

Method: EPA 8082A

Data File:				3G103965.D			3G103983.D			3G104000.D													
Method:				8082			8082			8082													
Calibration Name:				CAL 1660@500PP			CAL 1660@2000PP			CAL 1660@2000PP													
Calibration Date/Time				10/03/17 14:26			10/03/17 20:07			10/04/17 00:21													
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
TCMX-Surrogate	20	1	0	47.75	50	4.5	202.8	200	1.4	213.8	200	6.9						
Aroclor-1016	20	1	1	561.4	500	12.3	2100	2000	5.0	2212	2000	10.6						
Aroclor-1016	20	1	2	541.7	500	8.3	2010	2000	0.5	2117	2000	5.9						
Aroclor-1016	20	1	3	513.2	500	2.6	2006	2000	0.3	2219	2000	11.0						
Aroclor-1016	20	1	4	492.5	500	1.5	1937	2000	3.1	2031	2000	1.6						
Aroclor-1016	20	1	5	505.3	500	1.1	2085	2000	4.3	2208	2000	10.4						
Aroclor-1260	20	1	1	536.8	500	7.4	2110	2000	5.5	2226	2000	11.3						
Aroclor-1260	20	1	2	521	500	4.2	2103	2000	5.2	2227	2000	11.3						
Aroclor-1260	20	1	3	487.6	500	2.5	2013	2000	0.6	2140	2000	7.0						
Aroclor-1260	20	1	4	528.4	500	5.7	2143	2000	7.1	2258	2000	12.9						
Aroclor-1260	20	1	5	464.8	500	7.0	2032	2000	1.6	2132	2000	6.6						
DCB-Surrogate	20	1	0	39.88	50	20.2	170.6	200	14.7	166.7	200	16.7						
Average Difference	20	1	0			6.4			4.1			9.3						
TCMX-Surrogate	20	2	0	48.12	50	3.8	199.4	200	0.3	211.5	200	5.8						
Aroclor-1016	20	2	1	575.5	500	15.1	2106	2000	5.3	2218	2000	10.9						
Aroclor-1016	20	2	2	571.7	500	14.3	2059	2000	2.9	2178	2000	8.9						
Aroclor-1016	20	2	3	552.1	500	10.4	2100	2000	5.0	2226	2000	11.3						
Aroclor-1016	20	2	4	556.1	500	11.2	2082	2000	4.1	2200	2000	10.0						
Aroclor-1016	20	2	5	546.3	500	9.3	2072	2000	3.6	2196	2000	9.8						
Aroclor-1260	20	2	1	571.2	500	14.2	2203	2000	10.1	2316	2000	15.8						
Aroclor-1260	20	2	2	567.2	500	13.4	2222	2000	11.1	2332	2000	16.6						
Aroclor-1260	20	2	3	532.7	500	6.5	2172	2000	8.6	2275	2000	13.8						
Aroclor-1260	20	2	4	547.9	500	9.6	2126	2000	6.3	2212	2000	10.6						
Aroclor-1260	20	2	5	531.5	500	6.3	2158	2000	7.9	2221	2000	11.1						
DCB-Surrogate	20	2	0	47.17	50	5.7	176.3	200	11.8	168.3	200	15.9						
Average Difference	20	2	0			10.0			6.4			11.7						

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
RtWindow Summary

Method: EPA 8082A

Data File:			3G103454.D		3G103965.D		3G103983.D					
Calibration Name:			CAL 1660@50PPB		CAL 1660@500PPB		CAL 1660@2000PPB					
Calibration Date/Time			9/11/2017 6:18:00 PM		10/3/2017 2:26:00 PM		10/3/2017 8:07:00 PM					
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
TCMX-Surrogate	1	0	3.82	(3.76 - 3.88)	3.83	(3.77 - 3.89)	3.83	(3.77 - 3.89)				
Aroclor-1016	1	1	4.32	(4.28 - 4.36)	4.32	(4.28 - 4.36)	4.32	(4.28 - 4.36)				
Aroclor-1016	1	2	4.67	(4.63 - 4.71)	4.68	(4.64 - 4.72)	4.67	(4.63 - 4.71)				
Aroclor-1016	1	3	5.13	(5.09 - 5.17)	5.14	(5.10 - 5.18)	5.13	(5.09 - 5.17)				
Aroclor-1016	1	4	5.37	(5.33 - 5.41)	5.38	(5.34 - 5.42)	5.37	(5.33 - 5.41)				
Aroclor-1016	1	5	5.49	(5.45 - 5.53)	5.49	(5.45 - 5.53)	5.49	(5.45 - 5.53)				
Aroclor-1260	1	1	6.98	(6.94 - 7.02)	6.98	(6.94 - 7.02)	6.97	(6.93 - 7.01)				
Aroclor-1260	1	2	7.23	(7.19 - 7.27)	7.23	(7.19 - 7.27)	7.22	(7.18 - 7.26)				
Aroclor-1260	1	3	7.42	(7.38 - 7.46)	7.43	(7.39 - 7.47)	7.42	(7.38 - 7.46)				
Aroclor-1260	1	4	8.00	(7.96 - 8.04)	8.01	(7.97 - 8.05)	8.00	(7.96 - 8.04)				
Aroclor-1260	1	5	8.72	(8.68 - 8.76)	8.72	(8.68 - 8.76)	8.71	(8.67 - 8.75)				
Aroclor-1221	1	1	4.12	(4.08 - 4.16)								
Aroclor-1221	1	2	4.26	(4.22 - 4.30)								
Aroclor-1221	1	3	4.32	(4.28 - 4.36)								
Aroclor-1232	1	1	4.32	(4.28 - 4.36)								
Aroclor-1232	1	2	4.67	(4.63 - 4.71)								
Aroclor-1232	1	3	5.14	(5.10 - 5.18)								
Aroclor-1232	1	4	5.27	(5.23 - 5.31)								
Aroclor-1232	1	5	5.72	(5.68 - 5.76)								
Aroclor-1242	1	1	4.32	(4.28 - 4.36)								
Aroclor-1242	1	2	4.68	(4.64 - 4.72)								
Aroclor-1242	1	3	5.14	(5.10 - 5.18)								
Aroclor-1242	1	4	5.49	(5.45 - 5.53)								
Aroclor-1242	1	5	5.73	(5.69 - 5.77)								
Aroclor-1248	1	1	4.68	(4.64 - 4.72)								
Aroclor-1248	1	2	5.14	(5.10 - 5.18)								
Aroclor-1248	1	3	5.48	(5.44 - 5.52)								
Aroclor-1248	1	4	5.83	(5.79 - 5.87)								
Aroclor-1248	1	5	6.42	(6.38 - 6.46)								
Aroclor-1254	1	1	6.62	(6.58 - 6.66)								
Aroclor-1254	1	2	6.82	(6.78 - 6.86)								
Aroclor-1254	1	3	6.98	(6.94 - 7.02)								
Aroclor-1254	1	4	7.10	(7.06 - 7.14)								
Aroclor-1254	1	5	7.48	(7.44 - 7.52)								
Aroclor-1262	1	1	7.65	(7.61 - 7.69)								
Aroclor-1262	1	2	8.65	(8.61 - 8.69)								
Aroclor-1262	1	3	8.71	(8.67 - 8.75)								
Aroclor-1262	1	4	9.42	(9.38 - 9.46)								
Aroclor-1262	1	5	9.77	(9.73 - 9.81)								
Aroclor-1268	1	1	8.01	(7.97 - 8.05)								
Aroclor-1268	1	2	8.32	(8.28 - 8.36)								
Aroclor-1268	1	3	8.89	(8.85 - 8.93)								
Aroclor-1268	1	4	8.99	(8.95 - 9.03)								
Aroclor-1268	1	5	9.77	(9.73 - 9.81)								
DCB-Surrogate	1	0	9.98	(9.92 - 10.04)	9.99	(9.93 - 10.05)	9.98	(9.92 - 10.04)				
TCMX-Surrogate	2	0	3.86	(3.80 - 3.92)	3.86	(3.80 - 3.92)	3.86	(3.80 - 3.92)				
Aroclor-1016	2	1	4.45	(4.41 - 4.49)	4.45	(4.41 - 4.49)	4.45	(4.41 - 4.49)				
Aroclor-1016	2	2	4.87	(4.83 - 4.91)	4.87	(4.83 - 4.91)	4.87	(4.83 - 4.91)				
Aroclor-1016	2	3	5.24	(5.20 - 5.28)	5.25	(5.21 - 5.29)	5.25	(5.21 - 5.29)				
Aroclor-1016	2	4	5.57	(5.53 - 5.61)	5.57	(5.53 - 5.61)	5.57	(5.53 - 5.61)				
Aroclor-1016	2	5	5.94	(5.90 - 5.98)	5.94	(5.90 - 5.98)	5.94	(5.90 - 5.98)				
Aroclor-1260	2	1	7.23	(7.19 - 7.27)	7.24	(7.20 - 7.28)	7.24	(7.20 - 7.28)				
Aroclor-1260	2	2	7.32	(7.28 - 7.36)	7.32	(7.28 - 7.36)	7.32	(7.28 - 7.36)				
Aroclor-1260	2	3	7.94	(7.90 - 7.98)	7.95	(7.91 - 7.99)	7.95	(7.91 - 7.99)				
Aroclor-1260	2	4	8.30	(8.26 - 8.34)	8.30	(8.26 - 8.34)	8.30	(8.26 - 8.34)				
Aroclor-1260	2	5	9.00	(8.96 - 9.04)	9.00	(8.96 - 9.04)	9.00	(8.96 - 9.04)				
Aroclor-1221	2	1	4.24	(4.20 - 4.28)								
Aroclor-1221	2	2	4.38	(4.34 - 4.42)								
Aroclor-1221	2	3	4.45	(4.41 - 4.49)								
Aroclor-1232	2	1	4.45	(4.41 - 4.49)								
Aroclor-1232	2	2	4.87	(4.83 - 4.91)								
Aroclor-1232	2	3	5.25	(5.21 - 5.29)								
Aroclor-1232	2	4	5.94	(5.90 - 5.98)								
Aroclor-1232	2	5	6.08	(6.04 - 6.12)								
Aroclor-1242	2	1	4.45	(4.41 - 4.49)								
Aroclor-1242	2	2	4.87	(4.83 - 4.91)								
Aroclor-1242	2	3	5.24	(5.20 - 5.28)								
Aroclor-1242	2	4	5.57	(5.53 - 5.61)								
Aroclor-1242	2	5	5.94	(5.90 - 5.98)								
Aroclor-1248	2	1	4.86	(4.82 - 4.90)								
Aroclor-1248	2	2	5.24	(5.20 - 5.28)								
Aroclor-1248	2	3	5.57	(5.53 - 5.61)								
Aroclor-1248	2	4	6.08	(6.04 - 6.12)								
Aroclor-1248	2	5	6.21	(6.17 - 6.25)								
Aroclor-1254	2	1	6.43	(6.39 - 6.47)								
Aroclor-1254	2	2	6.77	(6.73 - 6.81)								
Aroclor-1254	2	3	7.16	(7.12 - 7.20)								
Aroclor-1254	2	4	7.67	(7.63 - 7.71)								
Aroclor-1254	2	5	8.36	(8.32 - 8.40)								
Aroclor-1262	2	1	7.74	(7.70 - 7.78)								
Aroclor-1262	2	2	8.89	(8.85 - 8.93)								
Aroclor-1262	2	3	9.00	(8.96 - 9.04)								
Aroclor-1262	2	4	9.58	(9.54 - 9.62)								
Aroclor-1262	2	5	10.12	(10.08 - 10.16)								
Aroclor-1268	2	1	8.40	(8.36 - 8.44)								
Aroclor-1268	2	2	8.44	(8.40 - 8.48)								
Aroclor-1268	2	3	9.33	(9.29 - 9.37)								
Aroclor-1268	2	4	9.48	(9.44 - 9.52)								
Aroclor-1268	2	5	10.12	(10.08 - 10.16)								
DCB-Surrogate	2	0	10.65	(10.59 - 10.71)	10.66	(10.59 - 10.71)	10.66	(10.60 - 10.72)				

Pesticide Data

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD00298-002
Client Id: 475 EXTERIOR NYRECYC
Data File: 6G81158.D
Analysis Date: 10/04/17 03:39
Date Rec/Extracted: 09/28/17-10/03/17
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	**a-chlordane**	**0.0054**	**0.0082**	7421-93-4	Endrin Aldehyde	0.0054	U
309-00-2	Aldrin	0.0054	U	53494-70-5	Endrin Ketone	0.0054	U
319-84-6	alpha-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
319-85-7	beta-BHC	0.0011	U	76-44-8	Heptachlor	0.0054	U
12789-03-6	**(^)Chlordane (Technical)**	**0.027**	**0.055**	1024-57-3	Heptachlor Epoxide	0.0054	U
319-86-8	delta-BHC	0.0054	U	72-43-5	Methoxychlor	0.0054	U
60-57-1	Dieldrin	0.0011	U	72-54-8	p,p'-DDD	0.0027	U
959-98-8	Endosulfan I	0.0054	U	**72-55-9**	**(^)p,p'-DDE**	**0.0027**	**0.0052**
33213-65-9	Endosulfan II	0.0054	U	**50-29-3**	**(^)p,p'-DDT**	**0.0027**	**0.0091**
1031-07-8	Endosulfan Sulfate	0.0054	U	8001-35-2	Toxaphene	0.027	U
72-20-8	Endrin	0.0054	U	**5103-74-2**	**(^)y-chlordane**	**0.0054**	**0.0076**
57-74-9	**Chlordane (Total)**	**0.0054**	**0.016**				

Worksheet #: 439173

Total Target Concentration 0.0082

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2017\GC_6\Data\10-04-17\
Data File : 6G81158.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 4 Oct 2017 3:39
Operator : MS/MLC/ZM
Sample : AD00298-002
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 16:24:57 2017
Quant Method : G:\GCDATA\2017\GC_6\METHODQT\6G_P0919AA.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Tue Sep 19 10:00:32 2017
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	4.573	4.649	655862	332993	68.821	75.925
9)y-chlordane	8.192	7.960	113780	64009	10.220m	13.972m#
10)a-chlordane	8.262	8.167	163166	52418	15.158m	12.281m
12)p,p'-DDE	8.355	8.465	73918	42797	7.808m	9.523m
17)p,p'-DDT	9.525	9.551	64499	41584	13.087m	16.781m#
22)DCB-Surrogate	11.760	12.386	596473	431243	66.669m	93.101m#
24)Chlordane (Techni	8.192	7.960	113657	91398	91.300m	101.453m
25)Chlordane (Techni	8.262	8.167	163132	52503	84.663m	101.972m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2017\GC_6\Data\10-04-17\
Data File : 6G81158.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 4 Oct 2017 3:39
Operator : MS/MLC/ZM
Sample : AD00298-002
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 16:24:57 2017
Quant Method : G:\GCDATA\2017\GC_6\METHODQT\6G_P0919AA.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Tue Sep 19 10:00:32 2017
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

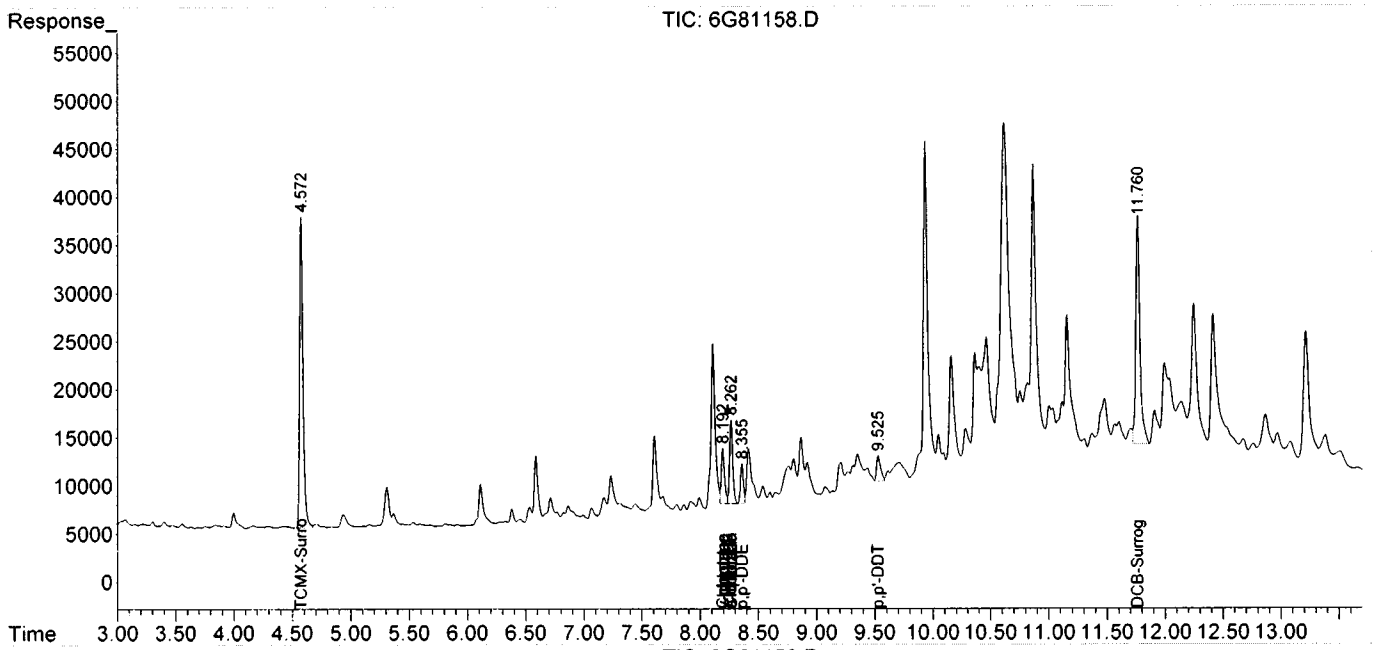

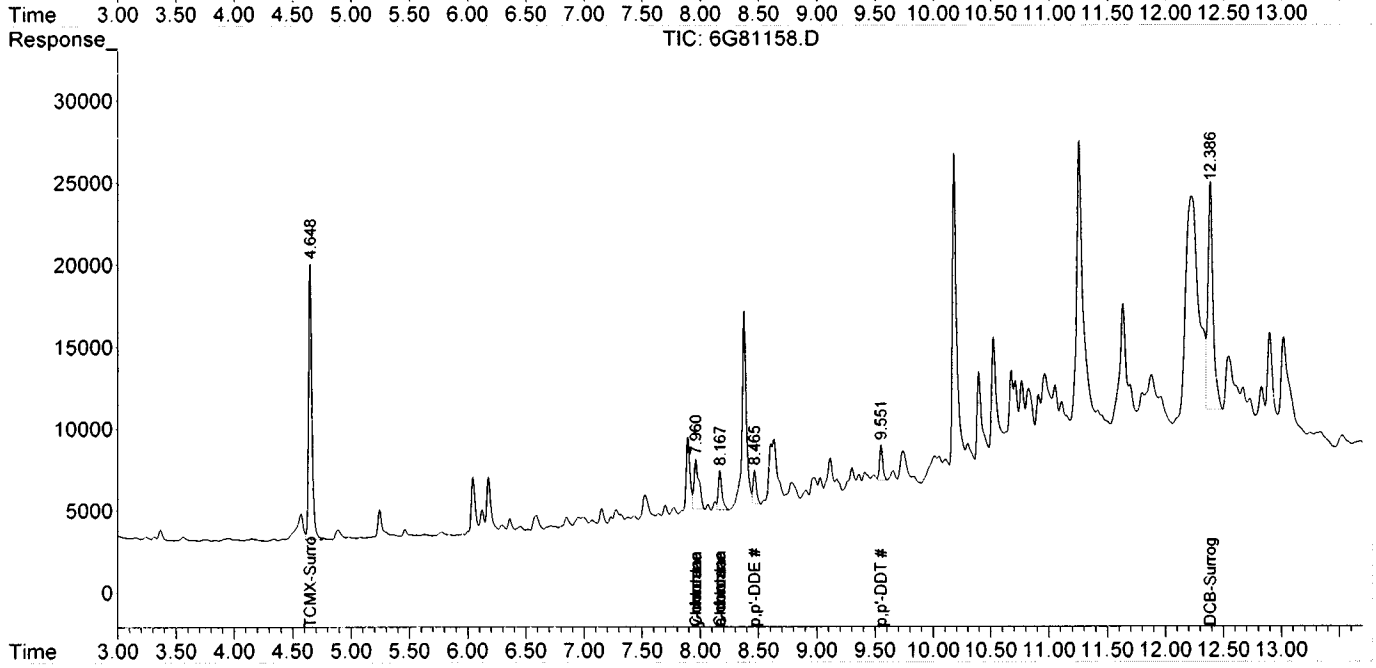

Form1

ORGANICS PESTICIDE REPORT

Sample Number: SMB63043
Client Id:
Data File: 6G81145.D
Analysis Date: 10/03/17 15:07
Date Rec/Extracted: NA-10/03/17
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.0050	U	7421-93-4	Endrin Aldehyde	0.0050	U
309-00-2	Aldrin	0.0050	U	53494-70-5	Endrin Ketone	0.0050	U
319-84-6	alpha-BHC	0.0010	U	58-89-9	gamma-BHC	0.0010	U
319-85-7	beta-BHC	0.0010	U	76-44-8	Heptachlor	0.0050	U
12789-03-6	Chlordane (Technical)	0.025	U	1024-57-3	Heptachlor Epoxide	0.0050	U
319-86-8	delta-BHC	0.0050	U	72-43-5	Methoxychlor	0.0050	U
60-57-1	Dieldrin	0.0010	U	72-54-8	p,p'-DDD	0.0025	U
959-98-8	Endosulfan I	0.0050	U	72-55-9	p,p'-DDE	0.0025	U
33213-65-9	Endosulfan II	0.0050	U	50-29-3	p,p'-DDT	0.0025	U
1031-07-8	Endosulfan Sulfate	0.0050	U	8001-35-2	Toxaphene	0.025	U
72-20-8	Endrin	0.0050	U	5103-74-2	y-chlordane	0.0050	U

Worksheet #: 439173 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2017\GC_6\Data\10-03-17\
Data File : 6G81145.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 3 Oct 2017 15:07
Operator : MS/MLC/ZM
Sample : SMB63043
Misc : S,PEST
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 03 17:06:12 2017
Quant Method : G:\GCDATA\2017\GC_6\METHODQT\6G_P0919AA.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Tue Sep 19 10:00:32 2017
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	4.567	4.643	857816	398337	91.022	90.824
22)DCB-Surrogate	11.758	12.384	814924	427625	92.341	92.278

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2017\GC_6\Data\10-03-17\
Data File : 6G81145.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 3 Oct 2017 15:07
Operator : MS/MLC/ZM
Sample : SMB63043
Misc : S,PEST
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 03 17:06:12 2017
Quant Method : G:\GCDATA\2017\GC_6\METHODQT\6G_P0919AA.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Tue Sep 19 10:00:32 2017
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

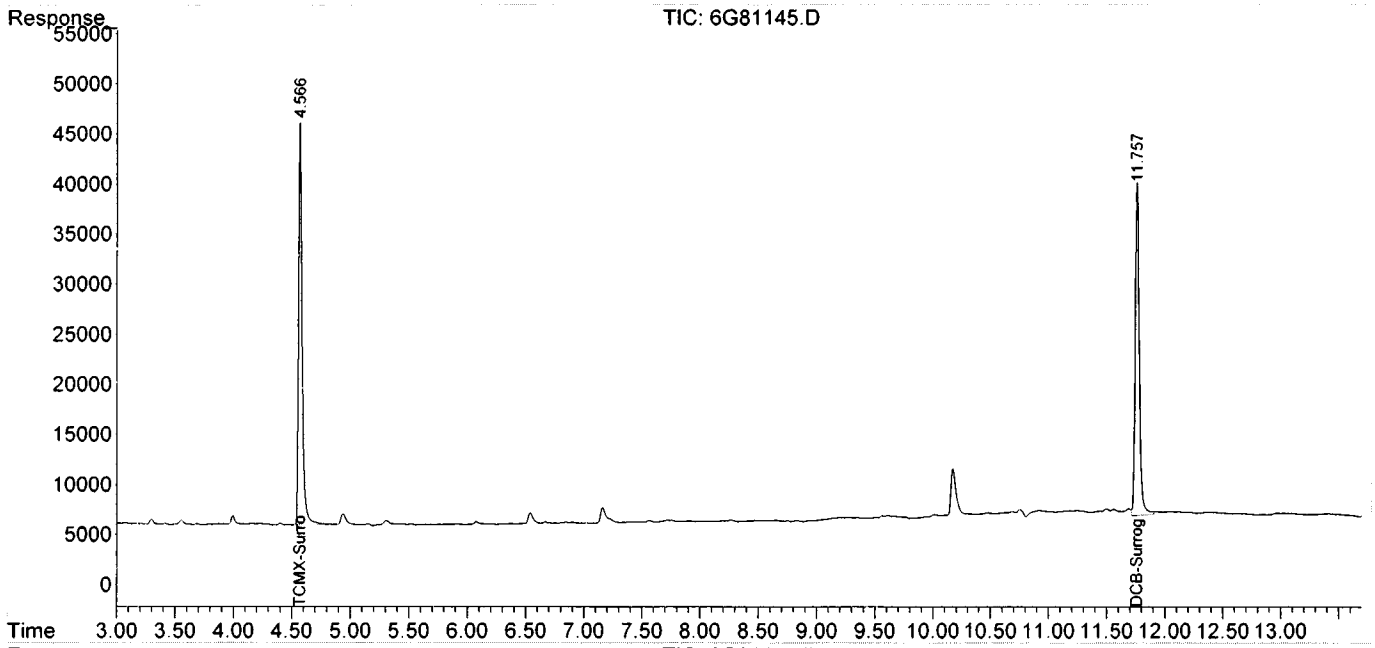

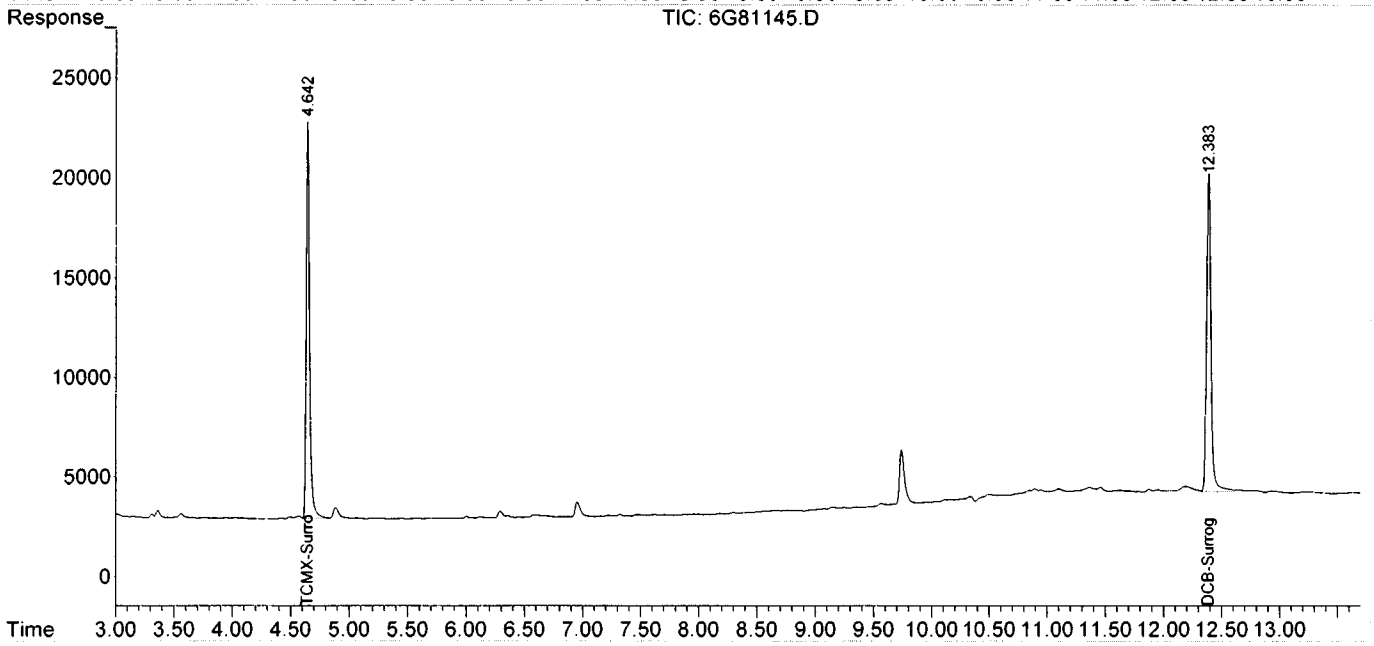

FORM2

Surrogate Recovery

Method: EPA 8081B

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column1 S3 Recov	Column2 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
6G81145.D	SMB63043	S	10/03/17 15:07	1		91	91	92	92		
6G81158.D	AD00298-002	S	10/04/17 03:39	1		69	76	67	93		
6G81144.D	SMB63043(MS)	S	10/03/17 14:49	1		92	94	95	90		
6G81153.D	AD00316-027(MS)	S	10/04/17 02:12	1		83	83	95	90		
6G81154.D	AD00316-027(MSD)	S	10/04/17 02:29	1		77	78	109	138		
6G81155.D	AD00316-027	S	10/04/17 02:47	1		88	92	87	119		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8081B

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	37-141
S2=TCMX-Surrogate	100	37-141
S3=DCB-Surrogate	100	33-146
S4=DCB-Surrogate	100	33-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63043

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G81144.D	SMB63043(MS)	10/3/2017 2:49:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	82.92	0	100	83	60	130
gamma-BHC	1	89.17	0	100	89	60	130
beta-BHC	1	91.58	0	100	92	60	130
Heptachlor	1	94.97	0	100	95	60	130
delta-BHC	1	84.68	0	100	85	60	130
Aldrin	1	89.25	0	100	89	70	130
Heptachlor Epoxide	1	87.3	0	100	87	70	130
y-chlordane	1	86.78	0	100	87	70	130
a-chlordane	1	86.26	0	100	86	70	130
Endosulfan I	1	83.71	0	100	84	70	130
p,p'-DDE	1	88.28	0	100	88	70	130
Dieldrin	1	88.7	0	100	89	70	130
Endrin	1	91.92	0	100	92	70	130
p,p'-DDD	1	80.84	0	100	81	70	130
Endosulfan II	1	83.43	0	100	83	70	130
p,p'-DDT	1	97.7	0	100	98	70	130
Endrin Aldehyde	1	60.82	0	100	61	10	130
Endosulfan Sulfate	1	89.84	0	100	90	70	130
Methoxychlor	1	108.13	0	100	108	60	130
Endrin Ketone	1	100.46	0	100	100	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63043

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G81153.D	AD00316-027(MS)	10/4/2017 2:12:00 AM
Non Spike(If applicable):	6G81155.D	AD00316-027	10/4/2017 2:47:00 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	73.84	0	100	74	60	130
gamma-BHC	1	72.57	0	100	73	60	130
beta-BHC	1	90.75	0	100	91	60	130
Heptachlor	1	81.29	0	100	81	60	130
delta-BHC	1	74	0	100	74	60	130
Aldrin	1	80.31	0	100	80	70	130
Heptachlor Epoxide	1	80.54	0	100	81	70	130
y-chlordane	1	103.45	0	100	103	70	130
a-chlordane	1	86.84	0	100	87	70	130
Endosulfan I	1	90.13	0	100	90	70	130
p,p'-DDE	1	227.33	150.3	100	77	70	130
Dieldrin	1	88.89	0	100	89	70	130
Endrin	1	153.2	0	100	153 *	70	130
p,p'-DDD	1	193.07	97.33	100	96	70	130
Endosulfan II	1	86.69	0	100	87	70	130
p,p'-DDT	1	237.69	140.64	100	97	70	130
Endrin Aldehyde	1	279.35	0	100	279 *	10	130
Endosulfan Sulfate	1	89.12	0	100	89	70	130
Methoxychlor	1	124.67	0	100	125	60	130
Endrin Ketone	1	108.85	0	100	109	70	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G81154.D	AD00316-027(MSD)	10/4/2017 2:29:00 AM
Non Spike(If applicable):	6G81155.D	AD00316-027	10/4/2017 2:47:00 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	66.47	0	100	66	60	130
gamma-BHC	1	64.85	0	100	65	60	130
beta-BHC	1	86.91	0	100	87	60	130
Heptachlor	1	78.02	0	100	78	60	130
delta-BHC	1	62.35	0	100	62	60	130
Aldrin	1	67.61	0	100	68 *	70	130
Heptachlor Epoxide	1	66.51	0	100	67 *	70	130
y-chlordane	1	81.65	0	100	82	70	130
a-chlordane	1	77.03	0	100	77	70	130
Endosulfan I	1	79.92	0	100	80	70	130
p,p'-DDE	1	209.88	150.3	100	60 *	70	130
Dieldrin	1	79.46	0	100	79	70	130
Endrin	1	170.78	0	100	171 *	70	130
p,p'-DDD	1	188.97	97.33	100	92	70	130
Endosulfan II	1	77.64	0	100	78	70	130
p,p'-DDT	1	203.75	140.64	100	63 *	70	130
Endrin Aldehyde	1	308.45	0	100	308 *	10	130
Endosulfan Sulfate	1	94.95	0	100	95	70	130
Methoxychlor	1	118.38	0	100	118	60	130
Endrin Ketone	1	133.31	0	100	133 *	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: SMB63043

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G81154.D	AD00316-027(MSD)	10/4/2017 2:29:00 AM
Duplicate(If applicable):	6G81153.D	AD00316-027(MS)	10/4/2017 2:12:00 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
alpha-BHC	1	66.47	73.84	11	40
gamma-BHC	1	64.85	72.57	11	40
beta-BHC	1	86.91	90.75	4.3	40
Heptachlor	1	78.02	81.29	4.1	40
delta-BHC	1	62.35	74	17	40
Aldrin	1	67.61	80.31	17	40
Heptachlor Epoxide	1	66.51	80.54	19	40
y-chlordane	1	81.65	103.45	24	40
a-chlordane	1	77.03	86.84	12	40
Endosulfan I	1	79.92	90.13	12	40
p,p'-DDE	1	209.88	227.33	8	40
Dieldrin	1	79.46	88.89	11	40
Endrin	1	170.78	153.2	11	40
p,p'-DDD	1	188.97	193.07	2.1	40
Endosulfan II	1	77.64	86.69	11	40
p,p'-DDT	1	203.75	237.69	15	40
Endrin Aldehyde	1	308.45	279.35	9.9	40
Endosulfan Sulfate	1	94.95	89.12	6.3	40
Methoxychlor	1	118.38	124.67	5.2	40
Endrin Ketone	1	133.31	108.85	20	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: SMB63043
Blank Data File: 6G81145.D
Matrix: Soil

Blank Analysis Date: 10/03/17 15:07
Blank Extraction Date: 10/03/17
(If Applicable)
Method: EPA 8081B

Sample Number	Data File	Analysis Date
AD00298-002	6G81158.D	10/04/17 03:39
AD00316-027	6G81155.D	10/04/17 02:47
AD00316-027(MSD	6G81154.D	10/04/17 02:29
AD00316-027(MS)	6G81153.D	10/04/17 02:12
SMB63043(MS)	6G81144.D	10/03/17 14:49

Form 5

Method: EPA 8081B

Instrument: GC_6 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
6G80609.D	CAL EVAL	09/18/17 22:31	Soil					
6G80610.D	EVAL	09/18/17 22:49	Soil					
6G80611.D	CAL PEST@100PPB	09/18/17 23:07	Soil	6G80613.	11.7612	0.0145	12.3903	0.0153
6G80612.D	CAL PEST@50PPB	09/18/17 23:24	Soil	6G80613.	11.7630	0.0008	12.3919	0.0024
6G80613.D	CAL PEST@2PPB	09/18/17 23:42	Soil	6G80613.	11.7629	0	12.3922	0
6G80614.D	2PPB	09/18/17 23:59	Soil	6G80613.	11.7643	0.0119	12.3932	0.0081
6G80615.D	CAL PEST@10PPB	09/19/17 00:17	Soil	6G80613.	11.7634	0.0042	12.3928	0.0048
6G80616.D	CAL PEST@200PPB	09/19/17 00:34	Soil	6G80613.	11.7621	0.0068	12.3904	0.0145
6G80617.D	CAL PEST@400PPB	09/19/17 00:52	Soil	6G80613.	11.7627	0.0017	12.3920	0.0016
6G80618.D	CAL CHLOR@100PPB	09/19/17 01:10	Soil	6G80613.	11.7634	0.0042	12.3925	0.0024
6G80619.D	CAL TOX@500PPB	09/19/17 01:27	Soil	6G80613.	11.7625	0.0034	12.3917	0.004
6G80620.D	ICV	09/19/17 01:45	Soil	6G80613.	11.7628	0.0009	12.3919	0.0024
6G80621.D	WMB62248(MS)	09/19/17 02:02	Aqueous	6G80613.	11.7637	0.0068	12.3930	0.0064
6G80622.D	WMB62248	09/19/17 02:20	Aqueous	6G80613.	11.7622	0.006	12.3923	0.0008
6G80623.D	AD00032-002(T)(MS)	09/19/17 02:38	Aqueous	6G80613.	11.7629	0	12.3917	0.004
6G80624.D	AD00032-002(T)(MSD)	09/19/17 02:55	Aqueous	6G80613.	11.7630	0.0008	12.3924	0.0016
6G80625.D	AD00052-003(T)(MS)	09/19/17 03:13	Aqueous	6G80613.	11.7623	0.0051	12.3914	0.0065
6G80626.D	AD00052-003(T)(MSD)	09/19/17 03:30	Aqueous	6G80613.	11.7637	0.0068	12.3924	0.0016
6G80627.D	AD00052-003(T)	09/19/17 03:48	Aqueous	6G80613.	11.7635	0.0051	12.3925	0.0024
6G80628.D	AD00021-001	09/19/17 04:06	Aqueous	6G80613.	11.7633	0.0034	12.3925	0.0024
6G80629.D	AC99991-002	09/19/17 04:23	Soil	6G80613.	11.7629	0	12.3913	0.0073
6G80630.D	AD00068-009	09/19/17 04:41	Soil	6G80613.	11.7624	0.0043	12.3922	0
6G80631.D	AD00044-001	09/19/17 04:58	Soil	6G80613.	11.7619	0.0085	12.3909	0.0105
6G80632.D	AD00009-001	09/19/17 05:16	Soil	6G80613.	11.7626	0.0026	12.3927	0.004
6G80633.D	AD00009-003	09/19/17 05:33	Soil	6G80613.	11.7629	0	12.3903	0.0153
6G80634.D	AD00068-006	09/19/17 05:51	Soil	6G80613.	11.7622	0.006	12.3919	0.0024
6G80635.D	AD00068-007	09/19/17 06:09	Soil	6G80613.	11.7628	0.0009	12.3911	0.0089
6G80636.D	AD00071-001	09/19/17 06:26	Soil	6G80613.	11.7632	0.0025	12.3923	0.0008
6G80637.D	AD00009-005(5X)	09/19/17 06:44	Soil	6G80613.	11.7640	0.0093	12.3902	0.0161
6G80638.D	CAL EVAL	09/19/17 10:01	Soil					
6G80639.D	CAL PEST@100PPB	09/19/17 10:19	Soil	6G80613.	11.7640	0.0093	12.3918	0.0032
6G80640.D	AC99876-005	09/19/17 10:39	Aqueous	6G80639.	11.7654	0.0119	12.3926	0.0065
6G80641.D	AC99876-006	09/19/17 10:56	Aqueous	6G80639.	11.7647	0.006	12.3928	0.0081
6G80642.D	62244(MS)	09/19/17 11:14	Soil	6G80639.	11.7647	0.006	12.3935	0.0137
6G80643.D	62262(MS)	09/19/17 16:04	Aqueous	6G80639.	11.7686	0.0391	12.3915	0.0024
6G80644.D	WMB62262	09/19/17 16:22	Aqueous	6G80639.	11.7648	0.0068	12.3914	0.0032
6G80645.D	CAL PEST@200PPB	09/19/17 16:39	Aqueous	6G80639.	11.7647	0.006	12.3919	0.0008

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B

Instrument: GC_6 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
6G81112.D	CAL EVAL	10/03/17 01:01	Soil					
6G81113.D	EVAL	10/03/17 01:19	Soil					
6G81114.D	CAL PEST@100PPB	10/03/17 01:36	Soil	6G81114.	11.7562	0	12.3824	0
6G81115.D	200PPB	10/03/17 01:54	Soil	6G81114.	11.7570	0.0068	12.3827	0.0024
6G81116.D	SMB63038(MS)	10/03/17 02:12	Soil	6G81114.	11.7571	0.0077	12.3839	0.0121
6G81117.D	SMB63039(MS)	10/03/17 02:29	Soil	6G81114.	11.7584	0.0187	12.3843	0.0153
6G81118.D	SMB63038	10/03/17 02:47	Soil	6G81114.	11.7579	0.0145	12.3839	0.0121
6G81119.D	SMB63039	10/03/17 03:04	Soil	6G81114.	11.7574	0.0102	12.3831	0.0057
6G81120.D	AD00282-001	10/03/17 03:22	Soil	6G81114.	11.7578	0.0136	12.3837	0.0105
6G81121.D	AD00282-027	10/03/17 03:40	Soil	6G81114.	11.7586	0.0204	12.3841	0.0137
6G81122.D	AD00282-019	10/03/17 03:57	Soil	6G81114.	11.7582	0.017	12.3837	0.0105
6G81123.D	AD00282-023	10/03/17 04:15	Soil	6G81114.	11.7585	0.0196	12.3848	0.0194
6G81124.D	AD00282-025	10/03/17 04:32	Soil	6G81114.	11.7590	0.0238	12.3847	0.0186
6G81125.D	AD00282-029	10/03/17 04:50	Soil	6G81114.	11.7583	0.0179	12.3837	0.0105
6G81126.D	AD00283-045	10/03/17 05:07	Soil	6G81114.	11.7593	0.0264	12.3842	0.0145
6G81127.D	AD00283-017	10/03/17 05:25	Soil	6G81114.	11.7585	0.0196	12.3842	0.0145
6G81128.D	AD00283-019	10/03/17 05:43	Soil	6G81114.	11.7579	0.0145	12.3843	0.0153
6G81129.D	AD00283-021	10/03/17 06:00	Soil	6G81114.	11.7587	0.0213	12.3842	0.0145
6G81130.D	AD00283-037	10/03/17 06:18	Soil	6G81114.	11.7604	0.0357	12.3851	0.0218
6G81131.D	AD00283-003	10/03/17 06:35	Soil	6G81114.	11.7602	0.034	12.3795	0.0234
6G81132.D	AD00283-039	10/03/17 06:53	Soil	6G81114.	11.7589	0.023	12.3845	0.017
6G81133.D	AD00283-025	10/03/17 07:10	Soil	6G81114.	11.7582	0.017	12.3837	0.0105
6G81134.D	AD00283-043	10/03/17 07:28	Soil	6G81114.	11.7596	0.0289	12.3854	0.0242
6G81135.D	AD00283-001	10/03/17 07:45	Soil	6G81114.	11.7594	0.0272	12.3843	0.0153
6G81136.D	CAL EVAL	10/03/17 11:22	Soil					
6G81137.D	CAL PEST@100PPB	10/03/17 11:45	Soil	6G81114.	11.7588	0.0221	12.3823	0.0008
6G81138.D	271-001	10/03/17 12:14	Soil	6G81137.	11.7605	0.0145	12.3834	0.0089
6G81139.D	AD00271-001	10/03/17 12:52	Soil	6G81137.	11.7598	0.0085	12.3807	0.0129
6G81140.D	AD00283-033	10/03/17 13:09	Soil	6G81137.	11.7586	0.0017	12.3797	0.021
6G81141.D	AD00283-027	10/03/17 13:27	Soil	6G81137.	11.7580	0.0068	12.3767	0.0452
6G81142.D	AD00283-047	10/03/17 13:45	Soil	6G81137.	11.7576	0.0102	12.3822	0.0008
6G81143.D	AD00283-023	10/03/17 14:02	Soil	6G81137.	11.7582	0.0051	12.3763	0.0485
6G81144.D	SMB63043(MS)	10/03/17 14:49	Soil	6G81137.	11.7583	0.0042	12.3822	0.0008
6G81145.D	SMB63043	10/03/17 15:07	Soil	6G81137.	11.7579	0.0076	12.3836	0.0105
6G81146.D	WMB63054(MS)	10/03/17 15:39	Aqueous	6G81137.	11.7621	0.0281	12.3842	0.0153
6G81147.D	WMB63054	10/03/17 15:57	Aqueous	6G81137.	11.7576	0.0102	12.3824	0.0008
6G81148.D	CAL PEST@100PPB	10/03/17 16:14	Aqueous	6G81137.	11.7578	0.0085	12.3827	0.0032

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B

Instrument: GC_6 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
6G81149.D	CAL EVAL	10/04/17 01:01	Soil					
6G81150.D	EVAL	10/04/17 01:19	Soil					
6G81151.D	CAL PEST@100PPB	10/04/17 01:36	Soil	6G81151.	11.7586	0	12.3838	0
6G81152.D	200PPB	10/04/17 01:54	Soil	6G81151.	11.7576	0.0085	12.3833	0.004
6G81153.D	AD00316-027(MS)	10/04/17 02:12	Soil	6G81151.	11.7596	0.0085	12.3852	0.0113
6G81154.D	AD00316-027(MSD)	10/04/17 02:29	Soil	6G81151.	11.7604	0.0153	12.3846	0.0065
6G81155.D	AD00316-027	10/04/17 02:47	Soil	6G81151.	11.7591	0.0042	12.3837	0.0008
6G81156.D	AD00316-026	10/04/17 03:04	Soil	6G81151.	11.7588	0.0017	12.3832	0.0048
6G81157.D	AD00316-028	10/04/17 03:22	Soil	6G81151.	11.7599	0.0111	12.3875	0.0299
6G81158.D	AD00298-002	10/04/17 03:39	Soil	6G81151.	11.7604	0.0153	12.3855	0.0137
6G81159.D	AD00301-001	10/04/17 03:57	Soil	6G81151.	11.7604	0.0153	12.3864	0.021
6G81160.D	AD00301-002	10/04/17 04:15	Soil	6G81151.	11.7600	0.0119	12.3857	0.0153
6G81161.D	AD00301-003	10/04/17 04:32	Soil	6G81151.	11.7610	0.0204	12.3866	0.0226
6G81162.D	AD00301-004	10/04/17 04:50	Soil	6G81151.	11.7606	0.017	12.3865	0.0218
6G81163.D	AD00301-005	10/04/17 05:07	Soil	6G81151.	11.7616	0.0255	12.3868	0.0242
6G81164.D	AD00301-006	10/04/17 05:25	Soil	6G81151.	11.7600	0.0119	12.3866	0.0226
6G81165.D	AD00301-007	10/04/17 05:43	Soil	6G81151.	11.7613	0.023	12.3866	0.0226
6G81166.D	AD00301-008	10/04/17 06:00	Soil	6G81151.	11.7609	0.0196	12.3862	0.0194
6G81167.D	AD00301-009	10/04/17 06:18	Soil	6G81151.	11.7610	0.0204	12.3865	0.0218
6G81168.D	AD00301-010	10/04/17 06:35	Soil	6G81151.	11.7603	0.0145	12.3865	0.0218
6G81169.D	AD00301-011	10/04/17 06:53	Soil	6G81151.	11.7618	0.0272	12.3874	0.0291
6G81170.D	AD00301-012	10/04/17 07:10	Soil	6G81151.	11.7617	0.0264	12.3861	0.0186
6G81171.D	AD00301-013	10/04/17 07:28	Soil	6G81151.	11.7608	0.0187	12.3859	0.017
6G81172.D	AD00301-014	10/04/17 07:45	Soil	6G81151.	11.7607	0.0179	12.3864	0.021
6G81173.D	CAL EVAL	10/04/17 11:26	Soil					
6G81174.D	CAL PEST@200PPB	10/04/17 11:56	Soil	6G81151.	11.7642	0.0476	12.3869	0.025
6G81175.D	SMB63076(MS)	10/04/17 14:31	Soil	6G81174.	11.7667	0.0212	12.3860	0.0073
6G81176.D	SMB63076	10/04/17 14:49	Soil	6G81174.	11.7631	0.0094	12.3866	0.0024
6G81177.D	AD00370-001	10/04/17 15:06	Soil	6G81174.	11.7620	0.0187	12.3866	0.0024
6G81178.D	00265-004	10/04/17 15:24	Soil	6G81174.	11.7639	0.0026	12.3889	0.0161
6G81179.D	00265-004	10/04/17 15:49	Soil	6G81174.	11.7668	0.0221	12.3885	0.0129
6G81180.D	WMB63065(MS)	10/04/17 16:27	Aqueous	6G81174.	11.7613	0.0247	12.3854	0.0121
6G81181.D	WMB63065	10/04/17 16:45	Aqueous	6G81174.	11.7616	0.0221	12.3851	0.0145
6G81182.D	CAL PEST@200PPB	10/04/17 17:03	Aqueous	6G81174.	11.7609	0.0281	12.3857	0.0097
6G81183.D	AD00316-028(5X)	10/04/17 17:24	Soil	6G81182.	11.7625	0.0136	12.3865	0.0065
6G81184.D	CAL PEST@200PPB	10/04/17 17:42	Soil	6G81182.	11.7622	0.0111	12.3858	0.0008

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6G80613.D	CAL PEST@2PPB	09/18/17 23:42	2	6G80615.D	CAL PEST@10PPB	09/19/17 00:17
3	6G80612.D	CAL PEST@50PPB	09/18/17 23:24	4	6G80611.D	CAL PEST@100PPB	09/18/17 23:07
5	6G80616.D	CAL PEST@200PPB	09/19/17 00:34	6	6G80617.D	CAL PEST@400PPB	09/19/17 00:52
7	6G80618.D	CAL CHLOR@100PP	09/19/17 01:10	8	6G80619.D	CAL TOX@500PPB	09/19/17 01:27

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	Qua	1.0717	1.0307	0.9473	0.9881	0.8731	0.7968	----	----	0.951	4.57	0.996	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	1	0	Qua	0.9646	1.0296	1.1336	1.3060	1.1956	1.1507	----	----	1.13	5.76	0.998	0.999	11	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	1	0	Avg	0.9570	1.0238	1.0872	1.2251	1.1097	1.0575	----	----	1.08	6.29	0.998	0.999	8.4	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	1	0	Qua	0.7591	0.7220	0.6490	0.6904	0.5902	0.5410	----	----	0.659	7.20	0.995	0.999	12	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	1	0	Avg	1.0502	0.9553	0.8626	0.9361	0.8362	0.7902	----	----	0.905	6.58	0.998	0.999	10	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	1	0	Avg	0.9026	0.9140	0.9939	1.1455	1.0424	1.0014	----	----	1.00	7.53	0.998	0.999	8.9	2.00	10.00	50.00	100.0	200.0	400.0		
Aldrin	1	0	Avg	0.9762	0.9782	1.0188	1.1508	1.0329	0.9834	----	----	1.02	6.95	0.998	0.999	6.5	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	1	0	Avg	1.0386	1.0260	0.9756	1.0620	0.9328	0.8742	----	----	0.985	7.79	0.997	0.999	7.3	2.00	10.00	50.00	100.0	200.0	400.0		
γ-chlordane	1	0	Avg	1.1277	1.0916	1.0792	1.2141	1.1128	1.0544	----	----	1.11	8.20	0.998	1.00	5.0	2.00	10.00	50.00	100.0	200.0	400.0		
α-chlordane	1	0	Avg	1.1259	1.0927	1.0616	1.1655	1.0316	0.9809	----	----	1.08	8.27	0.998	0.999	6.2	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	1	0	Avg	0.8950	0.8657	0.8374	0.9021	0.7700	0.7036	----	----	0.829	8.15	0.994	0.999	9.4	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	1	0	Avg	0.8804	0.8858	0.9444	1.0756	0.9651	0.9286	----	----	0.947	8.36	0.998	0.999	7.5	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	1	0	Avg	0.9196	0.9000	0.9126	1.0284	0.9155	0.8675	----	----	0.924	8.60	0.997	0.999	5.9	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	1	0	Avg	0.8929	0.8222	0.8279	0.9328	0.8111	0.7465	----	----	0.839	8.86	0.995	0.999	7.8	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	1	0	Avg	0.9029	0.8420	0.7984	0.8736	0.7780	0.7352	----	----	0.822	9.32	0.998	0.999	7.6	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	1	0	Avg	0.9250	0.9060	0.8736	0.9465	0.8414	0.7901	----	----	0.880	9.43	0.997	0.999	6.6	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	1	0	Qua	0.1493	0.3229	0.4390	0.5266	0.4869	0.4932	----	----	0.403	9.53	0.999	0.999	36	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	1	0	Avg	0.7530	0.7892	0.7074	0.7454	0.6656	0.6328	----	----	0.716	9.92	0.998	0.999	8.2	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	1	0	Avg	0.7290	0.7195	0.6973	0.7494	0.7047	0.6713	----	----	0.712	10.29	0.999	1.00	3.8	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	1	0	Qua	0.2174	0.2951	0.3111	0.3344	0.3081	0.2870	----	----	0.292	10.23	0.997	1.00	14	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	1	0	Avg	0.6660	0.7272	0.7355	0.8256	0.7480	0.7133	----	----	0.736	10.80	0.998	0.999	7.1	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	1	0	Qua	1.2160	1.1141	0.9296	0.9481	0.8015	0.7393	----	----	0.958	11.76	0.995	0.999	19	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	1	1	Avg	----	----	----	----	----	----	----	----	0.0520	6.58	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	2	Avg	----	----	----	----	----	----	----	----	0.124	8.20	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	3	Avg	----	----	----	----	----	----	----	----	0.193	8.27	-1	-1	Lvl=7	100.0							
Toxaphene	1	1	Avg	----	----	----	----	----	----	----	----	0.0147	8.99	-1	-1	Lvl=8	500.0							
Toxaphene	1	2	Avg	----	----	----	----	----	----	----	----	0.00783	9.12	-1	-1	Lvl=8	500.0							
Toxaphene	1	3	Avg	----	----	----	----	----	----	----	----	0.0161	9.46	-1	-1	Lvl=8	500.0							
Toxaphene	1	4	Avg	----	----	----	----	----	----	----	----	0.0147	9.79	-1	-1	Lvl=8	500.0							
Toxaphene	1	5	Avg	----	----	----	----	----	----	----	----	0.0233	10.25	-1	-1	Lvl=8	500.0							
TCMX-Surrogate	2	0	Avg	0.4748	0.4379	0.4283	0.4730	0.4199	0.3973	----	----	0.439	4.65	0.997	0.999	7.0	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	2	0	Qua	0.3897	0.4116	0.4951	0.6121	0.5745	0.5712	----	----	0.509	5.59	0.999	0.999	18	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	2	0	Qua	0.3947	0.4140	0.4800	0.5760	0.5289	0.5178	----	----	0.485	6.13	0.999	0.999	14	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	2	0	Avg	0.3249	0.3138	0.3046	0.3331	0.2903	0.2716	----	----	0.306	6.21	0.996	0.999	7.4	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	2	0	Avg	0.4088	0.3812	0.3777	0.4356	0.3940	0.3908	----	----	0.398	6.57	0.999	0.999	5.4	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	2	0	Qua	0.3813	0.3896	0.4564	0.5622	0.5185	0.5107	----	----	0.470	6.71	0.999	0.999	16	2.00	10.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 9.94 Avg Rsd Col 2: 10.04

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

7092827 0167

Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6G80613.D	CAL PEST@2PPB	09/18/17 23:42	2	6G80615.D	CAL PEST@10PPB	09/19/17 00:17
3	6G80612.D	CAL PEST@50PPB	09/18/17 23:24	4	6G80611.D	CAL PEST@100PPB	09/18/17 23:07
5	6G80616.D	CAL PEST@200PPB	09/19/17 00:34	6	6G80617.D	CAL PEST@400PPB	09/19/17 00:52
7	6G80618.D	CAL CHLOR@100PP	09/19/17 01:10	8	6G80619.D	CAL TOX@500PPB	09/19/17 01:27

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aldrin	2	0	Avg	0.4051	0.4012	0.4311	0.5162	0.4785	0.4726	----	----	0.451	7.02	0.999	0.999	10	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	2	0	Avg	0.4289	0.4009	0.4060	0.4715	0.4246	0.4156	----	----	0.425	7.75	0.999	0.999	6.0	2.00	10.00	50.00	100.0	200.0	400.0		
v-chlordane	2	0	Avg	0.4773	0.4193	0.4306	0.5041	0.4605	0.4568	----	----	0.458	7.96	0.999	0.999	6.7	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	2	0	Avg	0.4157	0.3994	0.4149	0.4809	0.4323	0.4174	----	----	0.427	8.17	0.998	0.999	6.7	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	2	0	Avg	0.4488	0.4212	0.4166	0.4847	0.4454	0.4465	----	----	0.444	8.22	0.999	0.999	5.5	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	2	0	Qua	0.3730	0.3632	0.3950	0.4756	0.4386	0.4372	----	----	0.414	8.47	0.999	0.999	11	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	2	0	Avg	0.3782	0.3771	0.3876	0.4646	0.4261	0.4237	----	----	0.410	8.61	0.999	0.999	8.5	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	2	0	Avg	0.3407	0.3244	0.3411	0.4044	0.3617	0.3499	----	----	0.354	9.08	0.998	0.999	7.8	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	2	0	Avg	0.3437	0.3304	0.3350	0.3900	0.3527	0.3459	----	----	0.350	9.17	0.998	0.998	6.1	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	2	0	Avg	0.4618	0.4042	0.3908	0.4480	0.4046	0.3918	----	----	0.417	9.31	0.999	0.999	7.3	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	2	0	Qua	0.1497	0.1808	0.2180	0.2706	0.2480	0.2572	----	----	0.221	9.56	0.999	0.999	21	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	2	0	Qua	0.4379	0.3725	0.3436	0.3800	0.3359	0.3192	----	----	0.365	9.71	0.998	0.999	12	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	2	0	Avg	0.3742	0.3378	0.3192	0.3692	0.3279	0.3158	----	----	0.341	9.86	0.998	0.999	7.4	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	2	0	Qua	0.1177	0.1361	0.1471	0.1683	0.1472	0.1396	----	----	0.143	10.62	0.997	0.999	12	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	2	0	Avg	0.4180	0.3899	0.4013	0.4644	0.4120	0.3965	----	----	0.414	10.84	0.998	0.999	6.5	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	2	0	Qua	0.6412	0.5778	0.4745	0.5040	0.4195	0.3865	----	----	0.501	12.39	0.994	0.998	19	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	2	1	Avg	----	----	----	----	----	----	----	----	0.0213	6.58	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	2	Avg	----	----	----	----	----	----	----	----	0.0901	7.97	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	3	Avg	----	----	----	----	----	----	----	----	0.0515	8.17	-1	-1	Lvl=7	100.0							
Toxaphene	2	1	Avg	----	----	----	----	----	----	----	----	0.00428	8.86	-1	-1	Lvl=8	500.0							
Toxaphene	2	2	Avg	----	----	----	----	----	----	----	----	0.00522	9.11	-1	-1	Lvl=8	500.0							
Toxaphene	2	3	Avg	----	----	----	----	----	----	----	----	0.00506	9.60	-1	-1	Lvl=8	500.0							
Toxaphene	2	4	Avg	----	----	----	----	----	----	----	----	0.00801	10.35	-1	-1	Lvl=8	500.0							
Toxaphene	2	5	Avg	----	----	----	----	----	----	----	----	0.00567	10.43	-1	-1	Lvl=8	500.0							

Avg Rsd Col 1: 9.94 Avg Rsd Col 2: 10.04

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

7092827 0168

Form7
Continuing Calibration

Method: EPA 8081B

Data File:				6G81137.D			6G81148.D			6G81151.D			6G81174.D										
Method:				8081			8081			8081			8081										
Calibration Name:				CAL PEST@100PP			CAL PEST@100PP			CAL PEST@100PP			CAL PEST@200PP										
Calibration Date/Time				10/03/17 11:45			10/03/17 16:14			10/04/17 01:36			10/04/17 11:56										
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
TCMX-Surrogate	20	1	0	103.6	100	3.6	105.5	100	5.5	99.58	100	0.4	197.8	200	1.1								
alpha-BHC	20	1	0	103.1	100	3.1	105.2	100	5.2	98.03	100	2.0	203.9	200	1.9								
gamma-BHC	20	1	0	111.8	100	11.8	114.2	100	14.2	106	100	6.0	212.2	200	6.1								
beta-BHC	20	1	0	105.4	100	5.4	104.4	100	4.4	101.0	100	1.0	197.8	200	1.1								
Heptachlor	20	1	0	105	100	5.0	108.5	100	8.5	92.25	100	7.8	198.3	200	0.9								
delta-BHC	20	1	0	112.4	100	12.4	115.5	100	15.5	104.7	100	4.7	212.5	200	6.2								
Aldrin	20	1	0	109	100	9.0	110.8	100	10.8	106	100	6.0	205.3	200	2.7								
Heptachlor Epoxide	20	1	0	105.9	100	5.9	107.4	100	7.4	102.7	100	2.7	193.6	200	3.2								
y-chlordane	20	1	0	107.7	100	7.7	109.3	100	9.3	104.3	100	4.3	200.8	200	0.4								
a-chlordane	20	1	0	106.4	100	6.4	107.3	100	7.3	102.9	100	2.8	193.1	200	3.4								
Endosulfan I	20	1	0	105.8	100	5.8	106	100	6.0	102.8	100	2.8	187	200	6.5								
p,p'-DDE	20	1	0	111.5	100	11.5	112.0	100	12.0	108.4	100	8.4	207.1	200	3.5								
Dieldrin	20	1	0	109.0	100	9.0	109.8	100	9.8	105.2	100	5.2	201	200	0.5								
Endrin	20	1	0	105.7	100	5.7	101.3	100	1.3	94.56	100	5.4	193.7	200	3.2								
p,p'-DDD	20	1	0	105.3	100	5.3	107.9	100	7.9	100.9	100	0.8	191.0	200	4.5								
Endosulfan II	20	1	0	106.3	100	6.3	107.2	100	7.2	102.7	100	2.7	192.3	200	3.9								
p,p'-DDT	20	1	0	114.1	100	14.1	106.3	100	6.3	93.33	100	6.7	211.6	200	5.8								
Endrin Aldehyde	20	1	0	100.6	100	0.6	101.7	100	1.7	97.34	100	2.7	182.1	200	8.9								
Endosulfan Sulfate	20	1	0	101.5	100	1.5	104.2	100	4.2	93.15	100	6.8	185.3	200	7.3								
Methoxychlor	20	1	0	107.6	100	7.6	102.1	100	2.1	85.19	100	14.8	202.7	200	1.3								
Endrin Ketone	20	1	0	119.5	100	19.5	122.3	100	22.3*	109.3	100	9.3	207.3	200	3.7								
DCB-Surrogate	20	1	0	112.1	100	12.1	108.5	100	8.5	105.6	100	5.6	193.5	200	3.3								
Average Difference	20	1	0			7.7			8.1			5.0			3.6								
TCMX-Surrogate	20	2	0	102.2	100	2.2	104.8	100	4.8	102.9	100	2.9	193	200	3.5								
alpha-BHC	20	2	0	99.22	100	0.8	100.9	100	0.9	99.04	100	1.0	199.5	200	0.3								
gamma-BHC	20	2	0	99.92	100	0.1	102.1	100	2.1	99.2	100	0.8	199.0	200	0.5								
beta-BHC	20	2	0	103.6	100	3.6	105.2	100	5.2	103.3	100	3.3	190.4	200	4.8								
Heptachlor	20	2	0	101.5	100	1.5	106	100	6.0	93.18	100	6.8	201.2	200	0.6								
delta-BHC	20	2	0	99.94	100	0.1	102.3	100	2.3	97.31	100	2.7	198.6	200	0.7								
Aldrin	20	2	0	107.8	100	7.8	108.7	100	8.7	108.9	100	8.9	210.5	200	5.3								
Heptachlor Epoxide	20	2	0	104.8	100	4.8	106	100	6.0	105.3	100	5.3	199.2	200	0.4								
y-chlordane	20	2	0	104.5	100	4.4	105.0	100	5.0	104.4	100	4.4	198.3	200	0.9								
a-chlordane	20	2	0	106.6	100	6.6	107.2	100	7.2	107.1	100	7.1	198.7	200	0.6								
Endosulfan I	20	2	0	103.5	100	3.5	104.6	100	4.6	103.4	100	3.4	199	200	0.5								
p,p'-DDE	20	2	0	101.2	100	1.2	102.3	100	2.3	100.8	100	0.8	196.8	200	1.6								
Dieldrin	20	2	0	106.8	100	6.8	107.4	100	7.4	106	100	6.0	205.0	200	2.5								
Endrin	20	2	0	104	100	3.9	99.27	100	0.7	94.81	100	5.2	199.1	200	0.5								
p,p'-DDD	20	2	0	106.3	100	6.3	110.7	100	10.7	101	100	1.0	201.9	200	0.9								
Endosulfan II	20	2	0	101.3	100	1.3	101.9	100	1.9	100.9	100	0.9	189.1	200	5.5								
p,p'-DDT	20	2	0	101.5	100	1.5	102.6	100	2.6	85.15	100	14.9	193.9	200	3.1								
Endrin Aldehyde	20	2	0	102.7	100	2.7	108.1	100	8.1	101.8	100	1.8	194.5	200	2.8								
Endosulfan Sulfate	20	2	0	99.92	100	0.1	102.7	100	2.7	95.04	100	5.0	184.3	200	7.8								
Methoxychlor	20	2	0	98.7	100	1.3	101.1	100	1.1	79.6	100	20.4	185.4	200	7.3								
Endrin Ketone	20	2	0	111.8	100	11.8	111.5	100	11.5	105.6	100	5.6	198.9	200	0.5								
DCB-Surrogate	20	2	0	107.3	100	7.3	109	100	9.0	104.5	100	4.5	196.4	200	1.8								
Average Difference	20	2	0			3.6			5.0			5.1			2.4								

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8081B

			Data File:		6G80613.D		6G81137.D		6G81151.D					
			Calibration Name:		CAL PEST@2PPB		CAL PEST@100PPB		CAL PEST@100PPB					
			Calibration Date/Time		9/18/2017 11:42:00 PM		10/3/2017 11:45:00 AM		10/4/2017 1:36:00 AM					
Compound	Col	Mr		Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
TCMX-Surrogate	1	0		4.57	(4.51 - 4.63)	4.57	(4.51 - 4.63)	4.57	(4.51 - 4.63)				
alpha-BHC	1	0		5.76	(5.72 - 5.80)	5.75	(5.71 - 5.79)	5.75	(5.71 - 5.79)				
gamma-BHC	1	0		6.29	(6.25 - 6.33)	6.28	(6.24 - 6.32)	6.28	(6.24 - 6.32)				
beta-BHC	1	0		7.20	(7.12 - 7.28)	7.19	(7.11 - 7.27)	7.19	(7.11 - 7.27)				
Heptachlor	1	0		6.58	(6.54 - 6.62)	6.58	(6.54 - 6.62)	6.58	(6.54 - 6.62)				
delta-BHC	1	0		7.53	(7.45 - 7.61)	7.52	(7.44 - 7.60)	7.52	(7.44 - 7.60)				
Aldrin	1	0		6.95	(6.87 - 7.03)	6.95	(6.87 - 7.03)	6.95	(6.87 - 7.03)				
Heptachlor Epoxide	1	0		7.79	(7.75 - 7.83)	7.79	(7.75 - 7.83)	7.79	(7.75 - 7.83)				
g-chlordane	1	0		8.20	(8.16 - 8.24)	8.19	(8.15 - 8.23)	8.19	(8.15 - 8.23)				
a-chlordane	1	0		8.26	(8.22 - 8.30)	8.26	(8.22 - 8.30)	8.26	(8.22 - 8.30)				
Endosulfan I	1	0		8.15	(8.11 - 8.19)	8.15	(8.11 - 8.19)	8.15	(8.11 - 8.19)				
p,p'-DDE	1	0		8.36	(8.28 - 8.44)	8.36	(8.28 - 8.44)	8.35	(8.27 - 8.43)				
Dieldrin	1	0		8.60	(8.52 - 8.68)	8.60	(8.52 - 8.68)	8.60	(8.52 - 8.68)				
Endrin	1	0		8.86	(8.82 - 8.90)	8.86	(8.82 - 8.90)	8.86	(8.82 - 8.90)				
p,p'-DDD	1	0		9.32	(9.24 - 9.40)	9.31	(9.23 - 9.39)	9.31	(9.23 - 9.39)				
Endosulfan II	1	0		9.43	(9.35 - 9.51)	9.42	(9.34 - 9.50)	9.42	(9.34 - 9.50)				
p,p'-DDT	1	0		9.53	(9.45 - 9.61)	9.52	(9.44 - 9.60)	9.52	(9.44 - 9.60)				
Endrin Aldehyde	1	0		9.92	(9.84 - 10.00)	9.91	(9.83 - 9.99)	9.91	(9.83 - 9.99)				
Endosulfan Sulfate	1	0		10.29	(10.25 - 10.33)	10.28	(10.24 - 10.32)	10.28	(10.24 - 10.32)				
Methoxychlor	1	0		10.23	(10.19 - 10.27)	10.22	(10.18 - 10.26)	10.22	(10.18 - 10.26)				
Endrin Ketone	1	0		10.80	(10.72 - 10.88)	10.79	(10.71 - 10.87)	10.79	(10.71 - 10.87)				
DCB-Surrogate	1	0		11.76	(11.70 - 11.82)	11.76	(11.70 - 11.82)	11.76	(11.70 - 11.82)				
Chlordane (Technical	1	1											
Chlordane (Technical	1	2											
Chlordane (Technical	1	3											
Toxaphene	1	1		8.99	(8.95 - 9.03)								
Toxaphene	1	2		9.12	(9.08 - 9.16)								
Toxaphene	1	3		9.46	(9.42 - 9.50)								
Toxaphene	1	4		9.79	(9.75 - 9.83)								
Toxaphene	1	5		10.25	(10.21 - 10.29)								
TCMX-Surrogate	2	0		4.65	(4.59 - 4.71)	4.64	(4.58 - 4.70)	4.64	(4.58 - 4.70)				
alpha-BHC	2	0		5.59	(5.55 - 5.63)	5.58	(5.54 - 5.62)	5.59	(5.55 - 5.63)				
gamma-BHC	2	0		6.13	(6.09 - 6.17)	6.12	(6.08 - 6.16)	6.12	(6.08 - 6.16)				
beta-BHC	2	0		6.21	(6.13 - 6.29)	6.21	(6.13 - 6.29)	6.21	(6.13 - 6.29)				
Heptachlor	2	0		6.57	(6.53 - 6.61)	6.57	(6.53 - 6.61)	6.57	(6.53 - 6.61)				
delta-BHC	2	0		6.71	(6.63 - 6.79)	6.71	(6.63 - 6.79)	6.71	(6.63 - 6.79)				
Aldrin	2	0		7.02	(6.94 - 7.10)	7.02	(6.94 - 7.10)	7.02	(6.94 - 7.10)				
Heptachlor Epoxide	2	0		7.75	(7.71 - 7.79)	7.75	(7.71 - 7.79)	7.75	(7.71 - 7.79)				
g-chlordane	2	0		7.96	(7.92 - 8.00)	7.96	(7.92 - 8.00)	7.96	(7.92 - 8.00)				
a-chlordane	2	0		8.17	(8.13 - 8.21)	8.16	(8.12 - 8.20)	8.16	(8.12 - 8.20)				
Endosulfan I	2	0		8.22	(8.18 - 8.26)	8.21	(8.17 - 8.25)	8.21	(8.17 - 8.25)				
p,p'-DDE	2	0		8.47	(8.39 - 8.55)	8.46	(8.38 - 8.54)	8.46	(8.38 - 8.54)				
Dieldrin	2	0		8.61	(8.53 - 8.69)	8.61	(8.53 - 8.69)	8.61	(8.53 - 8.69)				
Endrin	2	0		9.08	(9.04 - 9.12)	9.08	(9.04 - 9.12)	9.08	(9.04 - 9.12)				
p,p'-DDD	2	0		9.17	(9.09 - 9.25)	9.17	(9.09 - 9.25)	9.17	(9.09 - 9.25)				
Endosulfan II	2	0		9.31	(9.23 - 9.39)	9.30	(9.22 - 9.38)	9.30	(9.22 - 9.38)				
p,p'-DDT	2	0		9.56	(9.48 - 9.64)	9.55	(9.47 - 9.63)	9.55	(9.47 - 9.63)				
Endrin Aldehyde	2	0		9.71	(9.63 - 9.79)	9.71	(9.63 - 9.79)	9.71	(9.63 - 9.79)				
Endosulfan Sulfate	2	0		9.86	(9.82 - 9.90)	9.86	(9.82 - 9.90)	9.86	(9.82 - 9.90)				
Methoxychlor	2	0		10.62	(10.58 - 10.66)	10.61	(10.57 - 10.65)	10.61	(10.57 - 10.65)				
Endrin Ketone	2	0		10.84	(10.76 - 10.92)	10.84	(10.76 - 10.92)	10.84	(10.76 - 10.92)				
DCB-Surrogate	2	0		12.39	(12.33 - 12.45)	12.38	(12.32 - 12.44)	12.38	(12.32 - 12.44)				
Chlordane (Technical	2	1											
Chlordane (Technical	2	2											
Chlordane (Technical	2	3											
Toxaphene	2	1		8.86	(8.82 - 8.90)								
Toxaphene	2	2		9.11	(9.07 - 9.15)								
Toxaphene	2	3		9.60	(9.56 - 9.64)								
Toxaphene	2	4		10.35	(10.31 - 10.39)								
Toxaphene	2	5		10.43	(10.39 - 10.47)								

Herbicide Data

Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD00298-002
Client Id: 475 EXTERIOR NYRECYC
Data File: 12G14889.D
Analysis Date: 10/04/17 16:37
Date Rec/Extracted: 09/28/17-10/03/17
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Soil
Initial Vol: 50g
Final Vol: 10ml
Dilution: 1
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.011	U	93-72-1	Silvex	0.011	U
94-75-7	2,4-D	0.011	U				

Worksheet #: 439202

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2017\GC_12\Data\10-04-17\
Data File : 12G14889.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04-Oct-17, 16:37:34
Operator : MLC/MS/ZM
Sample : AD00298-002
Misc : S,HERB
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 17:29:19 2017
Quant Method : G:\GCDATA\2017\GC_12\METHODQT\12G_HERB928.M
Quant Title : @GC_12,ug,8151
QLast Update : Wed Oct 04 15:55:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
2)Dcaa-Surrogate	8.155	8.122	155.4E6	49533554	811.160m	786.244m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2017\GC_12\Data\10-04-17\
Data File : 12G14889.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04-Oct-17, 16:37:34
Operator : MLC/MS/ZM
Sample : AD00298-002
Misc : S,HERB
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 17:29:19 2017
Quant Method : G:\GCDATA\2017\GC_12\METHODQT\12G_HERB928.M
Quant Title : @GC_12,ug,8151
QLast Update : Wed Oct 04 15:55:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

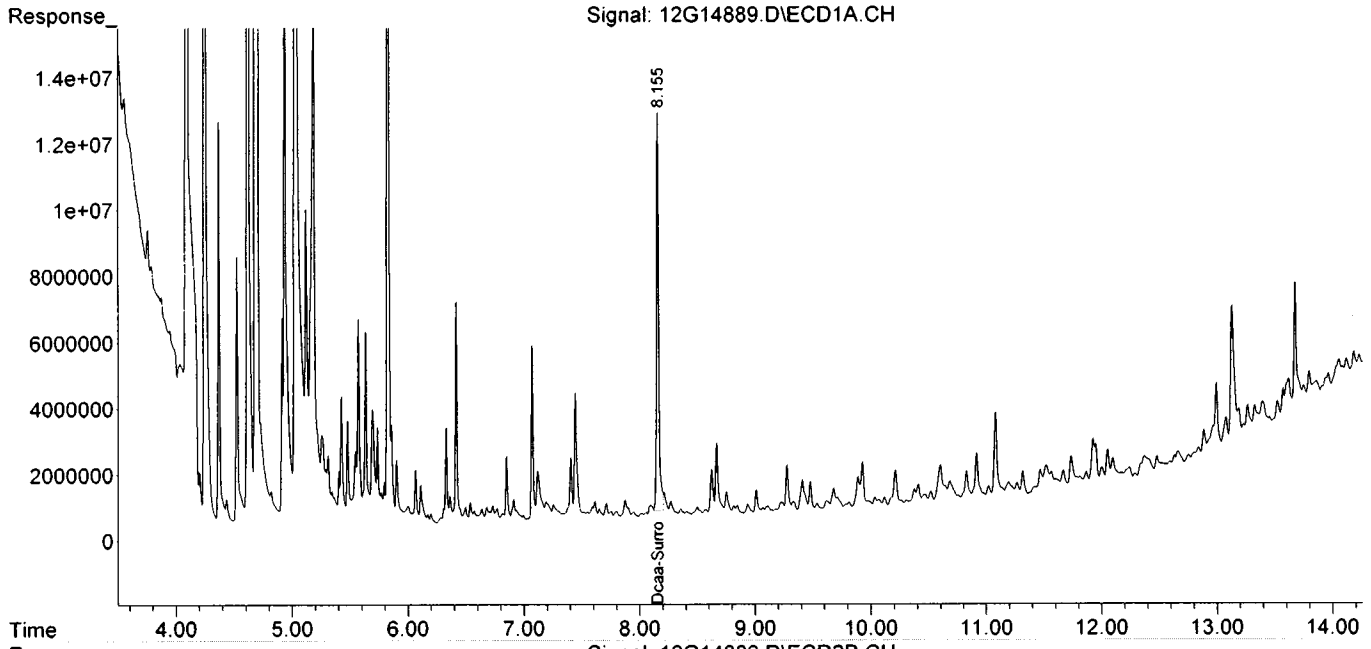

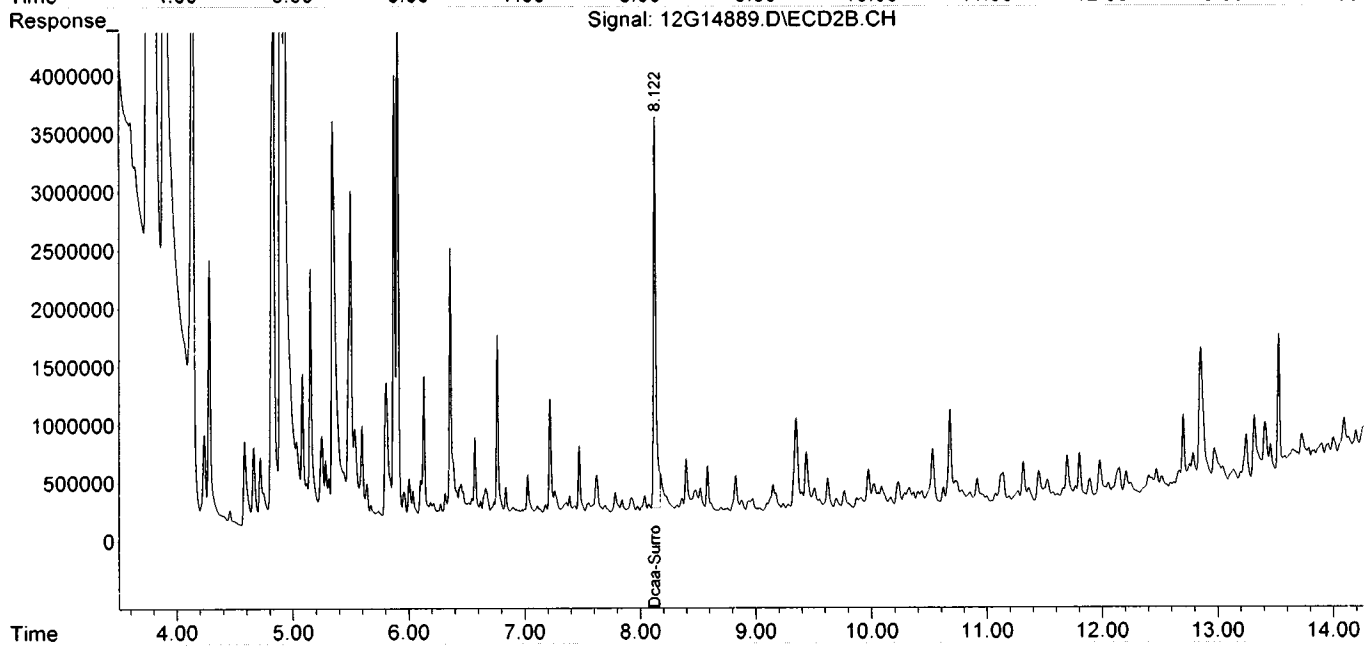

Form1

ORGANICS HERBICIDE REPORT

Sample Number: SMB63053
Client Id:
Data File: 12G14890.D
Analysis Date: 10/04/17 16:56
Date Rec/Extracted: NA-10/03/17
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Soil
Initial Vol: 50g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.010	U	93-72-1	Silvex	0.010	U
94-75-7	2,4-D	0.010	U				

Worksheet #: 439202 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2017\GC_12\Data\10-04-17\
Data File : 12G14890.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04-Oct-17, 16:56:54
Operator : MLC/MS/ZM
Sample : SMB63053
Misc : S,HERB
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 17:32:43 2017
Quant Method : G:\GCDATA\2017\GC_12\METHODQT\12G_HERB928.M
Quant Title : @GC_12,ug,8151
QLast Update : Wed Oct 04 15:55:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
2)Dcaa-Surrogate	8.156	8.124	125.0E6	40709721	652.584m	646.184m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2017\GC_12\Data\10-04-17\
Data File : 12G14890.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04-Oct-17, 16:56:54
Operator : MLC/MS/ZM
Sample : SMB63053
Misc : S,HERB
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 17:32:43 2017
Quant Method : G:\GCDATA\2017\GC_12\METHODQT\12G_HERB928.M
Quant Title : @GC_12,ug,8151
QLast Update : Wed Oct 04 15:55:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

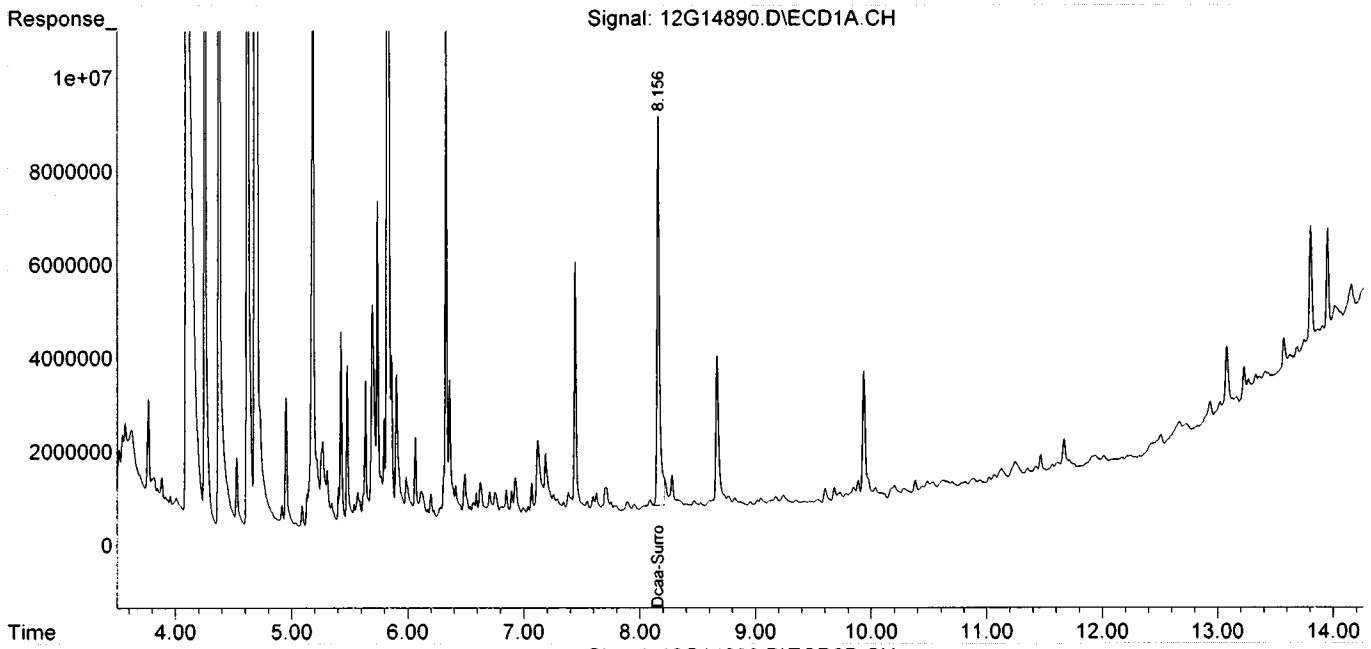

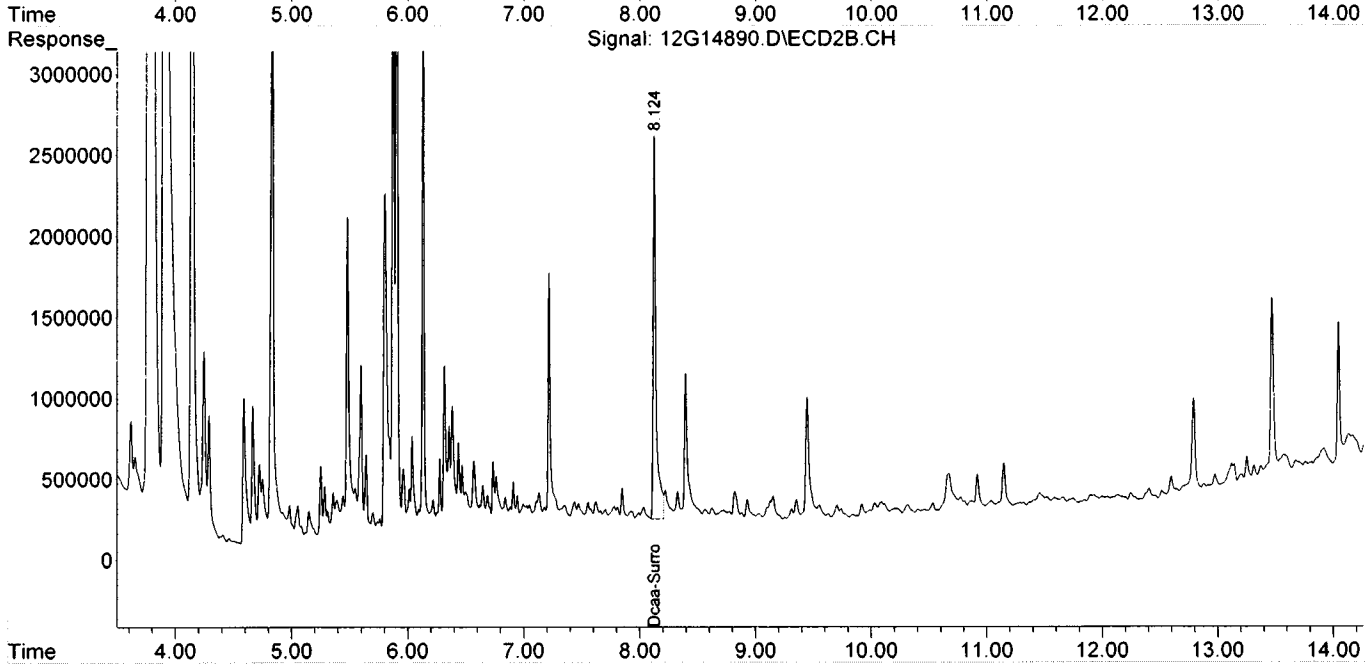

FORM2

Surrogate Recovery

Method: EPA 8151A

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
12G14890.D	SMB63053	S	10/04/17 16:56	1		65	65				
12G14889.D	AD00298-002	S	10/04/17 16:37	1		81	79				
12G14900.D	SMB63053(MS)	S	10/04/17 21:49	1		76	82				
12G14906.D	AD00356-001(MS)	S	10/04/17 23:46	1		85	104				
12G14907.D	AD00356-001(MSD)	S	10/05/17 00:05	1		78	87				
12G14908.D	AD00356-001	S	10/05/17 00:25	1		59	62				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8151A

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dcaa-Surrogate	1000	25-138
S2=Dcaa-Surrogate	1000	25-138

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63053

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G14900.D	SMB63053(MS)	10/4/2017 9:49:20 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	244.77	0	400	61	25	130
2,4-D	1	222.59	0	400	56	10	130
Silvex	1	269.2	0	400	67	25	130
2,4,5-T	1	228.5	0	400	57	25	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63053

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G14906.D	AD00356-001(MS)	10/4/2017 11:46:08 PM
Non Spike(If applicable):	12G14908.D	AD00356-001	10/5/2017 12:25:06 AM
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	260.27	0	400	65	25	130
2,4-D	1	279.55	0	400	70	10	130
Silvex	1	301.24	0	400	75	25	130
2,4,5-T	1	298.53	0	400	75	25	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G14907.D	AD00356-001(MSD)	10/5/2017 12:05:38 AM
Non Spike(If applicable):	12G14908.D	AD00356-001	10/5/2017 12:25:06 AM
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	234.75	0	400	59	25	130
2,4-D	1	258.86	0	400	65	10	130
Silvex	1	270.22	0	400	68	25	130
2,4,5-T	1	259.59	0	400	65	25	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: SMB63053

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G14907.D	AD00356-001(MSD)	10/5/2017 12:05:38 AM
Duplicate(If applicable):	12G14906.D	AD00356-001(MS)	10/4/2017 11:46:08 PM
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Dicamba	1	234.75	260.27	10	40
2,4-D	1	258.86	279.55	7.7	40
Silvex	1	270.22	301.24	11	40
2,4,5-T	1	259.59	298.53	14	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: SMB63053
Blank Data File: 12G14890.D
Matrix: Soil

Blank Analysis Date: 10/04/17 16:56
Blank Extraction Date: 10/03/17
(If Applicable)
Method: EPA 8151A

Sample Number	Data File	Analysis Date
AD00298-002	12G14889.D	10/04/17 16:37
AD00356-001	12G14908.D	10/05/17 00:25
AD00356-001(MSD	12G14907.D	10/05/17 00:05
AD00356-001(MS)	12G14906.D	10/04/17 23:46
SMB63053(MS)	12G14900.D	10/04/17 21:49

Form 5

Method: EPA 8151A

Instrument: GC_12 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
12G14825.D	CAL HERB@50PPB	09/28/17 11:05	Soil	12G1482	8.2239	0	8.1908	0
12G14826.D	CAL HERB@100PPB	09/28/17 11:24	Soil	12G1482	8.2017	0.2703	8.1658	0.3057
12G14827.D	CAL HERB@200PPB	09/28/17 11:44	Soil	12G1482	8.1804	0.5303	8.1447	0.5644
12G14828.D	CAL HERB@400PPB	09/28/17 12:03	Soil	12G1482	8.1684	0.6771	8.1348	0.686
12G14829.D	CAL HERB@500PPB	09/28/17 12:22	Soil	12G1482	8.1660	0.7065	8.1319	0.7217
12G14830.D	CAL HERB@600PPB	09/28/17 12:42	Soil	12G1482	8.1623	0.7518	8.1293	0.7537
12G14831.D	ICV	09/28/17 13:01	Soil	12G1482	8.1960	0.3398	8.1599	0.378
12G14832.D	TEST	09/28/17 13:30	Soil	12G1482	8.1582	0.8021	8.1953	0.0549
12G14833.D	WMB63020	09/28/17 13:49	Aqueous	12G1482	8.1738	0.6111	8.1355	0.6774
12G14834.D	WMB63020(MS)	09/28/17 14:09	Aqueous	12G1482	8.1541	0.8524	8.1262	0.7918
12G14835.D	AD00197-006(T)(MS)	09/28/17 14:28	Aqueous	12G1482	8.1535	0.8597	8.1263	0.7906
12G14836.D	AD00197-006(T)(MSD)	09/28/17 14:48	Aqueous	12G1482	8.1536	0.8585	8.1265	0.7881
12G14837.D	MB	09/28/17 15:07	Aqueous	12G1482	8.2609	0.4489	8.1800	0.1319
12G14838.D	AD00197-006(T)	09/28/17 15:27	Aqueous	12G1482	8.1707	0.649	8.1348	0.686
12G14839.D	AD00263-001(T)	09/28/17 15:46	Aqueous	12G1482	8.1758	0.5866	8.1374	0.6541
12G14840.D	AD00263-002(T)	09/28/17 16:06	Aqueous	12G1482	8.1742	0.6062	8.1363	0.6676
12G14841.D	EF-1-V-263495(9/26)	09/28/17 16:25	Aqueous	12G1482	8.1830	0.4986	8.1431	0.5841
12G14842.D	SMB62335	09/28/17 16:55	Soil	12G1482	8.1555	0.8352	8.1263	0.7906
12G14843.D	CAL HERB@200PPB	09/28/17 17:15	Aqueous	12G1482	8.1778	0.5621	8.1426	0.5902

Drift Compound: Dcaa-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8151A

Instrument: GC_12 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
12G14887.D	400PPB	10/04/17 14:07	Aqueous					
12G14888.D	CAL HERB@200PPB	10/04/17 14:27	Aqueous	12G1488	8.1800	0	8.1461	0
12G14889.D	AD00298-002	10/04/17 16:37	Soil	12G1488	8.1550	0.3061	8.1217	0.3
12G14890.D	SMB63053	10/04/17 16:56	Soil	12G1488	8.1556	0.2987	8.1243	0.268
12G14891.D	CAL HERB@400PPB	10/04/17 17:16	Soil	12G1488	8.1595	0.2509	8.1290	0.2101

Drift Compound: Dcaa-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8151A
Instrument: GC_12 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
12G14892.D	CAL HERB@50PPB	10/04/17 19:13	Soil	12G1489	8.2341	0	8.1991	0
12G14893.D	50PPB	10/04/17 19:33	Soil	12G1489	8.2341	0	8.1962	0.0354
12G14894.D	CAL HERB@100PPB	10/04/17 19:52	Soil	12G1489	8.2076	0.3224	8.1730	0.3188
12G14895.D	CAL HERB@200PPB	10/04/17 20:11	Soil	12G1489	8.1803	0.6555	8.1457	0.6534
12G14896.D	CAL HERB@400PPB	10/04/17 20:31	Soil	12G1489	8.1610	0.8917	8.1304	0.8414
12G14897.D	CAL HERB@500PPB	10/04/17 20:50	Soil	12G1489	8.1597	0.9077	8.1290	0.8586
12G14898.D	CAL HERB@600PPB	10/04/17 21:10	Soil	12G1489	8.1545	0.9714	8.1248	0.9103
12G14899.D	ICV	10/04/17 21:29	Soil	12G1489	8.2032	0.376	8.1783	0.254
12G14900.D	SMB63053(MS)	10/04/17 21:49	Soil	12G1489	8.1459	1.0769	8.1215	0.9509
12G14901.D	WMB63062	10/04/17 22:08	Aqueous	12G1489	8.1689	0.795	8.1332	0.807
12G14902.D	WMB63062(MS)	10/04/17 22:28	Aqueous	12G1489	8.1459	1.0769	8.1220	0.9448
12G14903.D	AD00291-001(T)(MS)	10/04/17 22:47	Aqueous	12G1489	8.1448	1.0904	8.1205	0.9633
12G14904.D	AD00291-001(T)(MSD)	10/04/17 23:07	Aqueous	12G1489	8.1451	1.0868	8.1216	0.9497
12G14905.D	AD00291-001(T)	10/04/17 23:26	Aqueous	12G1489	8.1708	0.7717	8.1358	0.775
12G14906.D	AD00356-001(MS)	10/04/17 23:46	Soil	12G1489	8.1441	1.099	8.1198	0.9719
12G14907.D	AD00356-001(MSD)	10/05/17 00:05	Soil	12G1489	8.1440	1.1003	8.1187	0.9854
12G14908.D	AD00356-001	10/05/17 00:25	Soil	12G1489	8.1510	1.0143	8.1211	0.9559
12G14909.D	AD00291-002(T)	10/05/17 00:44	Aqueous	12G1489	8.1628	0.8697	8.1279	0.8722
12G14910.D	AD00350-003(T)	10/05/17 01:04	Aqueous	12G1489	8.1618	0.8819	8.1274	0.8783
12G14911.D	AD00350-005(T)	10/05/17 01:23	Aqueous	12G1489	8.1659	0.8317	8.1308	0.8365
12G14912.D	AD00366-001(T)	10/05/17 01:43	Aqueous	12G1489	8.1612	0.8893	8.1273	0.8795
12G14913.D	EF-1-V-264501(10/3)	10/05/17 02:02	Aqueous	12G1489	8.1716	0.7619	8.1349	0.7861
12G14914.D	BLK	10/05/17 02:21	Aqueous	12G1489	8.2907	0.685	8.2159	0.2047
12G14915.D	BLK	10/05/17 02:41	Aqueous	12G1489	8.2902	0.679	8.2140	0.1816
12G14916.D	200PPB	10/05/17 03:00	Aqueous	12G1489	8.1769	0.6971	8.1428	0.689
12G14917.D	CAL HERB@400PPB	10/05/17 03:20	Aqueous	12G1489	8.1596	0.9089	8.1292	0.8562

Drift Compound: Dcaa-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

7092827 0186

Form 6
Initial Calibration

Method: EPA 8151A

Instrument: GC_12

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	12G14825.D	CAL HERB@50PPB	09/28/17 11:05	2	12G14826.D	CAL HERB@100PPB	09/28/17 11:24
3	12G14827.D	CAL HERB@200PPB	09/28/17 11:44	4	12G14828.D	CAL HERB@400PPB	09/28/17 12:03
5	12G14829.D	CAL HERB@500PPB	09/28/17 12:22	6	12G14830.D	CAL HERB@600PPB	09/28/17 12:42

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Dalapon	1	0	Avg	28.766	29.415	31.302	30.320	29.079	30.539	----	----	29.9	4.52	0.998	0.998	3.3	50.00	100.0	200.0	400.0	500.0	600.0		
Dcaa-Surrogate	1	0	Avg	17.693	17.936	19.085	19.738	19.140	21.361	----	----	19.2	8.22	0.994	0.997	6.9	250.0	500.0	1000.	2000.	2500.	3000.		
Dicamba	1	0	Avg	96.362	93.421	94.665	82.997	86.764	86.724	----	----	90.2	8.35	0.998	0.998	6.0	50.00	100.0	200.0	400.0	500.0	600.0		
Dichloroprop	1	0	Avg	23.718	23.298	23.545	21.554	20.377	21.606	----	----	22.4	8.93	0.997	0.997	6.1	50.00	100.0	200.0	400.0	500.0	600.0		
2.4-D	1	0	Avg	26.836	26.555	26.876	25.902	24.540	26.214	----	----	26.2	9.26	0.997	0.997	3.3	50.00	100.0	200.0	400.0	500.0	600.0		
Silvex	1	0	Avg	110.43	110.48	116.85	117.04	111.83	122.03	----	----	115	9.80	0.996	0.997	4.1	50.00	100.0	200.0	400.0	500.0	600.0		
2.4.5-T	1	0	Avg	102.97	103.62	110.25	110.38	105.36	115.21	----	----	108	10.22	0.996	0.997	4.4	50.00	100.0	200.0	400.0	500.0	600.0		
2.4-DB	1	0	Avg	13.050	13.881	14.976	14.885	14.088	15.278	----	----	14.4	10.62	0.996	0.997	5.8	50.00	100.0	200.0	400.0	500.0	600.0		
Dinoseb	1	0	Avg	70.251	71.520	76.143	75.876	72.335	79.341	----	----	74.2	11.07	0.995	0.996	4.6	50.00	100.0	200.0	400.0	500.0	600.0		
Picloram	1	0	Avg	118.29	126.04	138.62	145.28	140.66	157.31	----	----	138	12.13	0.994	0.996	10	50.00	100.0	200.0	400.0	500.0	600.0		
Dalapon	2	0	Avg	9.6118	9.6949	10.020	9.6898	9.2475	9.6354	----	----	9.65	4.36	0.998	0.998	2.6	50.00	100.0	200.0	400.0	500.0	600.0		
Dcaa-Surrogate	2	0	Avg	6.0838	6.0500	6.3207	6.4085	6.2032	6.7336	----	----	6.30	8.19	0.996	0.998	4.0	250.0	500.0	1000.	2000.	2500.	3000.		
Dicamba	2	0	Avg	31.623	30.194	30.046	28.622	27.068	28.803	----	----	29.4	8.34	0.997	0.997	5.4	50.00	100.0	200.0	400.0	500.0	600.0		
Dichloroprop	2	0	Avg	10.707	10.177	9.8279	8.3384	7.8042	8.1242	----	----	9.16	8.76	0.995	0.995	13	50.00	100.0	200.0	400.0	500.0	600.0		
2.4-D	2	0	Avg	10.739	10.195	9.9854	9.4615	8.8776	9.4168	----	----	9.78	9.13	0.997	0.997	6.8	50.00	100.0	200.0	400.0	500.0	600.0		
Silvex	2	0	Avg	40.495	40.975	42.515	41.077	38.959	41.548	----	----	40.9	9.61	0.997	0.997	2.9	50.00	100.0	200.0	400.0	500.0	600.0		
2.4.5-T	2	0	Avg	19.992	23.364	27.112	28.314	27.610	30.450	----	----	26.1	10.06	0.998	0.998	15	50.00	100.0	200.0	400.0	500.0	600.0		
2.4-DB	2	0	Avg	7.7049	8.0508	8.1720	7.7062	7.1983	7.5529	----	----	7.73	10.42	0.997	0.997	4.5	50.00	100.0	200.0	400.0	500.0	600.0		
Dinoseb	2	0	Avg	44.852	42.264	41.139	37.864	35.554	37.235	----	----	39.8	10.11	0.997	0.997	8.8	50.00	100.0	200.0	400.0	500.0	600.0		
Picloram	2	0	Avg	43.930	46.156	50.245	50.214	48.526	53.366	----	----	48.7	12.05	0.995	0.997	6.8	50.00	100.0	200.0	400.0	500.0	600.0		

Avg Rsd Col 1: 5.46 Avg Rsd Col 2: 6.96

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

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Form 6
Initial Calibration

Method: EPA 8151A

Instrument: GC_12

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	12G14892.D	CAL HERB@50PPB	10/04/17 19:13	2	12G14894.D	CAL HERB@100PPB	10/04/17 19:52
3	12G14895.D	CAL HERB@200PPB	10/04/17 20:11	4	12G14896.D	CAL HERB@400PPB	10/04/17 20:31
5	12G14897.D	CAL HERB@500PPB	10/04/17 20:50	6	12G14898.D	CAL HERB@600PPB	10/04/17 21:10

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Dalapon	1	0	Avg	29.676	32.469	32.693	31.656	29.370	31.378	----	----	31.2	4.53	0.996	0.996	4.5	50.00	100.0	200.0	400.0	500.0	600.0		
Dcaa-Surrogate	1	0	Avg	17.465	18.498	19.079	19.625	18.337	20.886	----	----	19.0	8.23	0.991	0.994	6.2	250.0	500.0	1000.	2000.	2500.	3000.		
Dicamba	1	0	Avg	95.933	97.820	97.068	93.151	77.114	85.825	----	----	91.2	8.36	0.984	0.985	8.9	50.00	100.0	200.0	400.0	500.0	600.0		
Dichloroprop	1	0	Avg	23.454	24.546	24.221	22.731	19.858	21.560	----	----	22.7	8.93	0.991	0.991	7.8	50.00	100.0	200.0	400.0	500.0	600.0		
2,4-D	1	0	Avg	26.035	27.497	27.620	26.016	23.866	26.110	----	----	26.2	9.27	0.994	0.994	5.2	50.00	100.0	200.0	400.0	500.0	600.0		
Silvex	1	0	Avg	107.22	112.31	116.17	115.70	107.44	119.79	----	----	113	9.80	0.993	0.994	4.5	50.00	100.0	200.0	400.0	500.0	600.0		
2,4,5-T	1	0	Avg	101.46	106.36	109.79	109.73	101.50	113.02	----	----	107	10.21	0.994	0.994	4.4	50.00	100.0	200.0	400.0	500.0	600.0		
2,4-DB	1	0	Avg	17.461	15.782	15.767	15.262	14.078	15.428	----	----	15.6	10.61	0.994	0.995	7.0	50.00	100.0	200.0	400.0	500.0	600.0		
Dinoseb	1	0	Avg	70.790	75.649	77.970	76.716	71.712	79.394	----	----	75.4	11.06	0.994	0.995	4.6	50.00	100.0	200.0	400.0	500.0	600.0		
Picloram	1	0	Avg	135.66	124.70	129.04	149.93	146.11	160.45	----	----	141	12.11	0.994	0.998	9.6	50.00	100.0	200.0	400.0	500.0	600.0		
Dalapon	2	0	Avg	9.5084	9.9927	10.045	9.6310	9.0508	9.5728	----	----	9.63	4.37	0.997	0.997	3.8	50.00	100.0	200.0	400.0	500.0	600.0		
Dcaa-Surrogate	2	0	Avg	5.6667	5.9273	6.0795	6.1393	5.7275	6.3968	----	----	5.99	8.20	0.993	0.995	4.6	250.0	500.0	1000.	2000.	2500.	3000.		
Dicamba	2	0	Avg	29.316	29.808	29.337	27.938	25.662	27.908	----	----	28.3	8.35	0.995	0.995	5.4	50.00	100.0	200.0	400.0	500.0	600.0		
Dichloroprop	2	0	Avg	10.374	10.442	9.0879	8.2415	8.0001	7.9257	----	----	9.01	8.77	0.999	0.999	13	50.00	100.0	200.0	400.0	500.0	600.0		
2,4-D	2	0	Avg	10.392	11.217	10.819	9.4879	8.6798	----	----	----	10.1	9.14	0.989	1.00	10	50.00	100.0	200.0	400.0	500.0			
Silvex	2	0	Avg	36.974	40.596	40.963	39.656	36.580	39.832	----	----	39.1	9.61	0.995	0.995	4.8	50.00	100.0	200.0	400.0	500.0	600.0		
2,4,5-T	2	0	Avg	19.113	22.799	25.262	26.830	25.228	28.413	----	----	24.6	10.05	0.997	0.997	13	50.00	100.0	200.0	400.0	500.0	600.0		
2,4-DB	2	0	Avg	6.5009	6.9393	8.6501	7.8788	7.1191	7.5722	----	----	7.44	10.41	0.992	0.993	10	50.00	100.0	200.0	400.0	500.0	600.0		
Dinoseb	2	0	Avg	40.615	42.619	40.824	37.671	34.550	36.836	----	----	38.9	10.11	0.995	0.995	7.7	50.00	100.0	200.0	400.0	500.0	600.0		
Picloram	2	0	Avg	47.432	46.051	47.147	51.994	50.655	54.610	----	----	49.6	12.04	0.997	0.999	6.7	50.00	100.0	200.0	400.0	500.0	600.0		

Avg Rsd Col 1: 6.27 Avg Rsd Col 2: 7.95

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8151A

Data File:				12G14888.D			12G14891.D			12G14917.D									
Method:				8151			8151			8151									
Calibration Name:				CAL HERB@200P			CAL HERB@400P			CAL HERB@400P									
Calibration Date/Time				10/04/17 14:27			10/04/17 17:16			10/05/17 03:20									
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
Dalapon	15	1	0	210.1	200	5.0	431.3	400	7.8	399.6	400	0.1						
Dcaa-Surrogate	15	1	0	974	1000	2.6	2227	2000	11.3	2081	2000	4.1						
Dicamba	15	1	0	207.1	200	3.5	388.1	400	3.0	360.8	400	9.8						
Dichloroprop	15	1	0	205.7	200	2.9	395.1	400	1.2	379.1	400	5.2						
2,4-D	15	1	0	201.8	200	0.9	394.9	400	1.3	380.6	400	4.8						
Silvex	15	1	0	198.6	200	0.7	419.9	400	5.0	394.6	400	1.3						
2,4,5-T	15	1	0	199.8	200	0.1	427.8	400	7.0	395.1	400	1.2						
2,4-DB	15	1	0	206.7	200	3.3	435.5	400	8.9	369.4	400	7.6						
Dinoseb	15	1	0	199.3	200	0.3	433.6	400	8.4	396.1	400	1.0						
Picloram	15	1	0	207.4	200	3.7	335.2	400	16.2*	354.7	400	11.3						
Average Difference	15	1	0			2.3			7.0			4.7						
Dalapon	15	2	0	204.4	200	2.2	417.2	400	4.3	403.8	400	0.9						
Dcaa-Surrogate	15	2	0	987.2	1000	1.3	2175	2000	8.7	2085	2000	4.2						
Dicamba	15	2	0	201.5	200	0.8	407.2	400	1.8	392.6	400	1.9						
Dichloroprop	15	2	0	215.1	200	7.5	363.8	400	9.1	359.6	400	10.1						
2,4-D	15	2	0	213.2	200	6.6	384.3	400	3.9	348.7	400	12.8						
Silvex	15	2	0	205.3	200	2.6	405.8	400	1.4	401.9	400	0.5						
2,4,5-T	15	2	0	198.7	200	0.7	450.5	400	12.6	449.9	400	12.5						
2,4-DB	15	2	0	220.6	200	10.3	391	400	2.3	399	400	0.3						
Dinoseb	15	2	0	207.6	200	3.8	386.3	400	3.4	385.3	400	3.7						
Picloram	15	2	0	211.9	200	5.9	325.1	400	18.7*	382.9	400	4.3						
Average Difference	15	2	0			4.2			6.6			5.1						

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8151A

Data File:			12G14825.D		12G14892.D		12G14888.D		12G14892.D			
Calibration Name:			CAL HERB@50PPB		CAL HERB@50PPB		CAL HERB@200PPB		CAL HERB@50PPB			
Calibration Date/Time			9/28/2017 11:05:12 AM		10/4/2017 7:13:37 PM		10/4/2017 2:27:01 PM		10/4/2017 7:13:37 PM			
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
Dalapon	1	0	4.53	(4.49 - 4.57)	4.53	(4.49 - 4.57)	4.52	(4.48 - 4.56)	4.53	(4.49 - 4.57)		
Dcaa-Surrogate	1	0										
Dicamba	1	0	8.32	(8.28 - 8.36)	8.31	(8.27 - 8.35)	8.31	(8.27 - 8.35)	8.36	(8.32 - 8.40)		
Dichloroprop	1	0	8.90	(8.86 - 8.94)	8.90	(8.86 - 8.94)	8.90	(8.86 - 8.94)	8.93	(8.89 - 8.97)		
2,4-D	1	0	9.23	(9.19 - 9.27)	9.23	(9.19 - 9.27)	9.23	(9.19 - 9.27)	9.27	(9.23 - 9.31)		
Silvex	1	0	9.78	(9.74 - 9.82)	9.78	(9.74 - 9.82)	9.78	(9.74 - 9.82)	9.80	(9.76 - 9.84)		
2,4,5-T	1	0	10.19	(10.15 - 10.23)	10.19	(10.15 - 10.23)	10.19	(10.15 - 10.23)	10.21	(10.17 - 10.25)		
2,4-DB	1	0	10.60	(10.56 - 10.64)	10.59	(10.55 - 10.63)	10.60	(10.56 - 10.64)	10.61	(10.57 - 10.65)		
Dinoseb	1	0	11.06	(11.02 - 11.10)	11.05	(11.01 - 11.09)	11.05	(11.01 - 11.09)	11.06	(11.02 - 11.10)		
Picloram	1	0	12.10	(12.06 - 12.14)	12.09	(12.05 - 12.13)	12.10	(12.06 - 12.14)	12.11	(12.07 - 12.15)		
Dalapon	2	0	4.37	(4.33 - 4.41)	4.37	(4.33 - 4.41)	4.37	(4.33 - 4.41)	4.37	(4.33 - 4.41)		
Dcaa-Surrogate	2	0										
Dicamba	2	0	8.32	(8.28 - 8.36)	8.32	(8.28 - 8.36)	8.31	(8.27 - 8.35)	8.35	(8.31 - 8.39)		
Dichloroprop	2	0	8.73	(8.69 - 8.77)	8.74	(8.70 - 8.78)	8.74	(8.70 - 8.78)	8.77	(8.73 - 8.81)		
2,4-D	2	0	9.10	(9.06 - 9.14)	9.11	(9.07 - 9.15)	9.10	(9.06 - 9.14)	9.14	(9.10 - 9.18)		
Silvex	2	0	9.59	(9.55 - 9.63)	9.59	(9.55 - 9.63)	9.59	(9.55 - 9.63)	9.61	(9.57 - 9.65)		
2,4,5-T	2	0	10.03	(9.99 - 10.07)	10.03	(9.99 - 10.07)	10.03	(9.99 - 10.07)	10.05	(10.01 - 10.09)		
2,4-DB	2	0	10.39	(10.35 - 10.43)	10.39	(10.35 - 10.43)	10.39	(10.35 - 10.43)	10.41	(10.37 - 10.45)		
Dinoseb	2	0	10.09	(10.05 - 10.13)	10.09	(10.05 - 10.13)	10.09	(10.05 - 10.13)	10.11	(10.07 - 10.15)		
Picloram	2	0	12.03	(11.99 - 12.07)	12.02	(11.98 - 12.06)	12.03	(11.99 - 12.07)	12.04	(12.00 - 12.08)		

Metal Data

Form1
Inorganic Analysis Data Sheet

Sample ID:	AD00298-002	% Solid:	92	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	475 EXTERIOR NYRE	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	9/29/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-47-3	Chromium	5.4	46	1	0.5	50	10/04/17	62644	S21541J4	36	P	PEICP4A
7440-50-8	Copper	5.4	58	1	0.5	50	10/04/17	62644	S21541J4	36	P	PEICP4A
7439-92-1	Lead	5.4	120	1	0.5	50	10/04/17	62644	S21541J4	36	P	PEICP4A
7439-97-6	Mercury	0.091	0.37	1	0.15	25	10/02/17	62644	H21541S	29	CV	HGCV2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AD00298-002	% Solid:	92	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	475 EXTERIOR NYRE	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	9/29/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.22	6.0	1	0.5	100	10/03/17	62645	S100317A	28	MS	MS2_7500SWA
7440-43-9	Cadmium	0.43	ND	1	0.5	100	10/02/17	62645	S100217A	40	MS	MS2_7500SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	10/02/17	62645	S100217A	40	MS	MS2_7500SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	10/02/17	62645	S100217A	40	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AD00298-002	% Solid:	92	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	475 EXTERIOR NYRE	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	9/29/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-39-3	Barium	11	200	1	0.5	50	10/04/17	62650	S21541K4	36	P	PEICP4A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 62644 (100) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 62644 (100) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-36-0	Antimony	4.0	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-38-2	Arsenic	4.0	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-41-7	Beryllium	1.2	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-43-9	Cadmium	1.2	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-70-2	Calcium	1000	ND	1	0.5	50	09/30/17	62644	S21541B3	11	P	PEICPRAD3A
7440-47-3	Chromium	5.0	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-48-4	Cobalt	2.5	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-50-8	Copper	5.0	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7439-89-6	Iron	200	ND	1	0.5	50	09/30/17	62644	S21541B3	11	P	PEICPRAD3A
7439-92-1	Lead	5.0	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7439-95-4	Magnesium	500	ND	1	0.5	50	09/30/17	62644	S21541B3	11	P	PEICPRAD3A
7439-96-5	Manganese	10	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7439-98-7	Molybdenum	2.5	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-02-0	Nickel	5.0	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-09-7	Potassium	500	ND	1	0.5	50	09/30/17	62644	S21541B3	11	P	PEICPRAD3A
7782-49-2	Selenium	3.0	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-22-4	Silver	1.5	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-23-5	Sodium	250	ND	1	0.5	50	09/30/17	62644	S21541B3	11	P	PEICPRAD3A
7440-28-0	Thallium	1.5	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-31-5	Tin	20	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-32-6	Titanium	10	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-62-2	Vanadium	10	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-66-6	Zinc	10	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 62645
Client Id: MB 62645
Matrix: SOIL
Level: LOW

% Solid: 0
Units: MG/KG

Lab Name: Hampton-Clarke
Lab Code:

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.80	ND	1	0.5	100	10/02/17	62645	S100217A	15	MS	MS2_7500SWA
7440-38-2	Arsenic	0.20	ND	1	0.5	100	10/02/17	62645	S100217A	15	MS	MS2_7500SWA
7440-41-7	Beryllium	0.20	ND	1	0.5	100	10/02/17	62645	S100217A	15	MS	MS2_7500SWA
7440-43-9	Cadmium	0.40	ND	1	0.5	100	10/02/17	62645	S100217A	15	MS	MS2_7500SWA
7782-49-2	Selenium	2.0	ND	1	0.5	100	10/02/17	62645	S100217A	15	MS	MS2_7500SWA
7440-22-4	Silver	0.20	ND	1	0.5	100	10/02/17	62645	S100217A	15	MS	MS2_7500SWA
7440-28-0	Thallium	0.40	ND	1	0.5	100	10/02/17	62645	S100217A	15	MS	MS2_7500SWA

Comments:

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 62650 (100) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 62650 (100) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-39-3	Barium	10	ND	1	0.5	50	10/04/17	62650	S21541K4	12	P	PEICP4A

Comments:

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 62644 (167) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 62644 (167) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.083	ND	1	0.15	25	10/02/17	62644	H21541S	11	CV	HGCV2A

Comments:

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM 2
(ICV/CCV Summary)

Date Analyzed: 10/02/17
Data File: S100217A
Prep Batch: 62645
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-264480-8	Rec	CCV V-264484-21	Rec	CCV V-264484-34	Rec	CCV V-264484-47	Rec	CCV V-264484-59	Rec		Rec		Rec		Rec
Antimony	50/50	46.67000	93	48.98000	98	48.11000	96	47.71000	95	47.27000	95						
Arsenic	50/50	49.28000	99	50.29000	101	49.94000	100	50.24000	100	48.79000	98						
Beryllium	50/50	50.44000	101	50.95000	102	50.77000	102	50.93000	102	48.67000	97						
Cadmium	50/50	49.64000	99	50.70000	101	50.23000	100	49.56000	99	48.63000	97						
Selenium	50/250	51.02000	102	255.00000	102	257.50000	103	257.30000	103	257.20000	103						
Silver	10/50	9.78700	98	49.85000	100	48.56000	97	48.27000	97	47.02000	94						
Thallium	50/50	48.47000	97	50.96000	102	50.42000	101	50.00000	100	50.36000	101						

Notes: a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits: ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 10/02/17
Data File: S100217A
Prep Batch: 62645
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SPEX

Analyte	LLICV/ LLCCV Amt	LLICV V-264485-9	Rec	LLCCV V-264485-22	Rec	LLCCV V-264485-35	Rec	LLCCV V-264485-48	Rec	LLCCV V-264485-60	Rec		Rec		Rec		Rec
Antimony	4/4	3.834	96	3.713	93	3.563	89	3.531	88	3.517	88						
Arsenic	1/1	1.014	101	9.845E-01	98	9.895E-01	99	1.476	148 c	9.726E-01	97						
Beryllium	1/1	1.001	100	1.011	101	1.002	100	9.917E-01	99	9.462E-01	95						
Cadmium	2/2	1.995	100	1.941	97	1.903	95	1.888	94	1.865	93						
Selenium	10/10	9.887	99	10.13	101	10.15	102	10.65	106	10.06	101						
Silver	1/1	9.567E-01	96	9.346E-01	93	8.916E-01	89	9.098E-01	91	8.818E-01	88						
Thallium	2/2	1.777	89	1.761	88	1.711	86	1.662	83	1.676	84						

Notes: a-indicates analyte failed the LLICV limits for 6010B, 6010C, 6020, 6020A
c-indicates analyte failed the LLCCV limits for 6010B, 6010C, 6020, 6020A

Qc Limits: LLCCV- 6010B/6010C/6020/6020A (70-130)
LLICV -6010B/6010C/6020/6020A :70-130

FORM 2
(ICV/CCV Summary)

Date Analyzed: 10/04/17
Data File: S21541J4
Prep Batch: 62644
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-263834-7	Rec	CCV V-263834-20	Rec	CCV V-263834-27	Rec	CCV V-263834-39	Rec	CCV V-263834-51	Rec	Rec	Rec	Rec
Aluminum	5/5	5.37332	107	5.26724	105	5.09699	102	5.39469	108	4.78728	96			
Chromium	.5/.5	0.54347	109	0.52831	106	0.51575	103	0.54545	109	0.48411	97			
Cobalt	.5/.5	0.53016	106	0.52524	105	0.51073	102	0.52933	106	0.47306	95			
Copper	.5/.5	0.52288	105	0.50974	102	0.49464	99	0.52273	105	0.46071	92			
Lead	.5/.5	0.53575	107	0.52632	105	0.50827	102	0.52002	104	0.45902	92			
Manganese	.5/.5	0.53047	106	0.52334	105	0.50820	102	0.53317	107	0.47405	95			
Nickel	.5/.5	0.52859	106	0.51155	102	0.49363	99	0.50554	101	0.44880	90			
Vanadium	.5/.5	0.53571	107	0.52841	106	0.51009	102	0.53628	107	0.47720	95			
Zinc	.5/.5	0.53529	107	0.53042	106	0.51502	103	0.53572	107	0.49750	100			

Notes:
a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits:
ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 10/04/17
Data File: S21541J4
Prep Batch: 62644
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SPEX

Analyte	LLICV/ LLCCV Amt	LLICV [soil] V-264209-8	Rec	LLCCV [soil] V-264209-21	Rec	LLCCV [soil] V-264209-28	Rec	LLCCV [soil] V-264209-40	Rec	LLCCV [soil] V-264209-52	Rec		Rec		Rec		Rec
Aluminum	2.0/2	2.16638	108	2.17743	109	2.18325	109	2.20092	110	2.22157	111						
Chromium	0.05/0.05	0.0573422	115	0.0573953	115	0.0581169	116	0.0584665	117	0.0585404	117						
Cobalt	0.025/0.025	0.0257912	103	0.0266585	107	0.0263405	105	0.0262496	105	0.0265941	106						
Copper	0.05/0.05	0.0495298	99	0.0496562	99	0.0482655	97	0.0496048	99	0.0486095	97						
Lead	0.05/0.05	0.0530059	106	0.0532838	107	0.0499243	100	0.0574914	115	0.0517542	104						
Manganese	0.1/0.1	0.105863	106	0.107176	107	0.107930	108	0.108292	108	0.108801	109						
Nickel	0.05/0.05	0.0531728	106	0.0527349	105	0.0524619	105	0.0514905	103	0.0542751	109						
Vanadium	0.1/0.1	0.107947	108	0.108093	108	0.108949	109	0.109344	109	0.109891	110						
Zinc	0.1/0.1	0.102726	103	0.103701	104	0.103106	103	0.104214	104	0.118382	118						

Notes: a-indicates analyte failed the LLICV limits for 6010B, 6010C, 6020, 6020A
c-indicates analyte failed the LLCCV limits for 6010B, 6010C, 6020, 6020A

Qc Limits: LLCCV- 6010B/6010C/6020/6020A (70-130)
LLICV -6010B/6010C/6020/6020A :70-130

FORM 2
(ICV/CCV Summary)

Date Analyzed: 10/04/17
Data File: S21541K4
Prep Batch: 62650
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-263834-7	Rec	CCV V-263834-20	Rec	CCV V-263834-33	Rec	CCV V-263834-45	Rec	CCV V-263834-56	Rec	CCV V-263834-64	Rec		Rec		Rec
Barium	.5/.5	0.48423	97	0.46536	93	0.46544	93	0.47000	94	0.47573	95	0.48046	96				

Notes:
a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits:
ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 10/04/17
Data File: S21541K4
Prep Batch: 62650
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SPEX

Analyte	LLICV/ LLCCV Amt	LLICV [soil] V-264209-8	Rec	LLCCV [soil] V-264209-21	Rec	LLCCV [soil] V-264209-34	Rec	LLCCV [soil] V-264209-46	Rec	LLCCV [soil] V-264209-57	Rec	LLCCV [soil] V-264209-65	Rec	Rec	Rec
Barium	0.1/0.1	0.104516	105	0.103643	104	0.104443	104	0.104138	104	0.105677	106	0.105400	105		

Notes: a-indicates analyte failed the LLICV limits for 6010B, 6010C, 6020, 6020A
c-indicates analyte failed the LLCCV limits for 6010B, 6010C, 6020, 6020A

Qc Limits: LLCCV- 6010B/6010C/6020/6020A (70-130)
LLICV -6010B/6010C/6020/6020A :70-130

FORM 2
(ICV/CCV Summary)

Date Analyzed: 10/02/17
Data File: H21541S
Prep Batch: 62644
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: HGCV2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

		ICV (2)-9		CCV-21		CCV-33		CCV-37					
Analyte	ICV/CCV Amt		Rec		Rec		Rec		Rec	Rec	Rec	Rec	Rec
Mercury	20/10	18.66000	93	9.74200	97	9.66400	97	9.67000	97				

Notes: a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits: ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/02/17
Data File: S100217A
Prep Batch: 62645
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-264481-10	CCB V-264481-23	CCB V-264481-36	CCB V-264481-49	CCB V-264481-61	MB 62645-15
Antimony	4 U	4 U	4 U	4 U	4 U	800 U
Arsenic	1 U	1 U	1 U	1 U	1 U	200 U
Beryllium	1 U	1 U	1 U	1 U	1 U	200 U
Cadmium	2 U	2 U	2 U	2 U	2 U	400 U
Selenium	10 U	10 U	10 U	10 U	10 U	2000 U
Silver	1 U	1 U	1 U	1 U	1 U	200 U
Thallium	2 U	2 U	2 U	2 U	2 U	400 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/04/17
Data File: S21541J4
Prep Batch: 62644
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-261851-9	CCB-22	CCB-29	CCB-41	CCB-53	MB 62644 (100)-12
Aluminum	2 U	2 U	2 U	2 U	2 U	200 U
Chromium	.05 U	.05 U	.05 U	.05 U	.05 U	5 U
Cobalt	.025 U	.025 U	.025 U	.025 U	.025 U	2.5 U
Copper	.05 U	.05 U	.05 U	.05 U	.05 U	5 U
Lead	.05 U	.05 U	.05 U	.05 U	.05 U	5 U
Manganese	.1 U	.1 U	.1 U	.1 U	.1 U	10 U
Nickel	.05 U	.05 U	.05 U	.05 U	.05 U	5 U
Vanadium	.1 U	.1 U	.1 U	.1 U	.1 U	10 U
Zinc	.1 U	.1 U	.1 U	.1 U	.1 U	10 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/04/17
Data File: S21541K4
Prep Batch: 62650
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-261851-9	CCB-22	CCB-35	CCB-47	CCB-58	CCB-66	MB 62650 (100)-12
Barium	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U	10 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/02/17
Data File: H21541S
Prep Batch: 62644
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: HGCV2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB-10	CCB-22	CCB-34	CCB-38	MB 62644 (167)-11
Mercury	.5 U	.5 U	.5 U	.5 U	83 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 10/02/17
Data File: S100217A
Prep Batch: 62645
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-264482-11	Rec	ICSAB V-264483-12	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	50000	42480	85	47220.00000	94						
Antimony	0	U		0.21990							
Arsenic	100	U		105.00000	105						
Beryllium	0	U		0.00274							
Cadmium	100	U		98.20000	98						
Calcium	150000	133200	89	49000.00000	99						
Iron	125000	105000	84	116100.00000	93						
Magnesium	50000	42030	84	47350.00000	95						
Selenium	100	U		100.10000	100						
Silver	50	U		45.91000	92						
Thallium	0	U		-0.07650							

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 10/04/17
Data File: S21541J4
Prep Batch: 62644
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-263927-10	Rec	ICSAB V-263293-11	Rec	ICSA V-263927-25	Rec	ICSAB V-263293-26	Rec	ICSA V-263927-37	Rec	ICSAB V-263293-38	Rec	ICSA V-263927-49	Rec	ICSAB V-263293-50	Rec
Aluminum	500	511.122	102	533.26900	107	516.673	103	537.18900	107	515.205	103	530.25400	106	531.153	106	491.28000	98
Calcium	500	495.646	99	519.83600	104	492.996	99	521.81200	104	508.195	102	516.33900	103	513.348	103	494.17800	99
Chromium	.5	U		0.56179	112	U		0.56322	113	U		0.55936	112	U		0.53089	106
Cobalt	.5	U		0.48835	98	U		0.48408	97	U		0.47616	95	U		0.45242	90
Copper	.5	U		0.55051	110	U		0.55019	110	U		0.53988	108	U		0.52393	105
Iron	200	190.95	95	200.02400	100	194.437	97	201.84800	101	194.678	97	199.03300	100	199.959	100	186.45500	93
Lead	1	U		0.99214	99	U		0.96936	97	U		0.93898	94	U		0.87631	88
Magnesium	500	527.014	105	551.86400	110	535.354	107	554.41400	111	531.89	106	544.66800	109	548.549	110	508.36700	102
Manganese	.5	U		0.51503	103	U		0.51909	104	U		0.51050	102	U		0.48885	98
Nickel	1	U		0.95599	96	U		0.92747	93	U		0.89572	90	U		0.84613	85
Vanadium	.5	U		0.54754	110	U		0.54692	109	U		0.53940	108	U		0.51975	104
Zinc	1	U		1.00589	101	U		0.99639	100	U		0.98385	98	U		0.96818	97

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 10/04/17
Data File: S21541K4
Prep Batch: 62650
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-263927-10	Rec	ICSAB V-263293-11	Rec	ICSA V-263927-31	Rec	ICSAB V-263293-32	Rec	ICSA V-263927-43	Rec	ICSAB V-263293-44	Rec	ICSA V-293927-62	Rec	ICSAB V-263293-63	Rec
Aluminum	500	490.753	98	453.24400	91	489.789	98	475.38500	95	485.491	97	475.94300	95	490.909	98	479.28100	96
Barium	.5	U		0.44270	89	U		0.48306	97	U		0.48623	97	U		0.46410	93
Calcium	500	470.989	94	430.69100	86	457.221	91	451.13700	90	457.618	92	451.14500	90	456.937	91	448.38100	90
Iron	200	181.14	91	167.05100	84	179.836	90	174.69100	87	178.996	89	174.96100	87	177.638	89	174.14200	87
Magnesium	500	498.301	100	457.40200	91	493.419	99	477.27900	95	490.851	98	477.96200	96	484.874	97	475.47400	95

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 62644

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 62644

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Chromium	62644	1	S21541J4	14	0.6926	0.650	107		79	121
Copper	62644	1	S21541J4	14	0.5971	0.564	106		80	120
Lead	62644	1	S21541J4	14	0.8427	0.856	98		82	118
Mercury	62644	5	H21541S	15	13.1900	73.8	89		64	136

TxtQcType: LCS Matrix: SOIL SampleID: LCS 62644

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Chromium	62644	1	S21541J4	13	0.6743	0.650	104		79	121
Copper	62644	1	S21541J4	13	0.5793	0.564	103		80	120
Lead	62644	1	S21541J4	13	0.8328	0.856	97		82	118
Mercury	62644	5	H21541S	14	14.1300	73.8	96		64	136

TxtQcType: MSD Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Chromium	62644	1	S21541J4	18	S21541J4	15	0.6906	0.2317	0.5	92		75	125
Copper	62644	1	S21541J4	18	S21541J4	15	0.6917	0.2280	0.5	93		75	125
Lead	62644	1	S21541J4	18	S21541J4	15	0.7165	0.2488	0.5	94		75	125
Mercury	62644	1	H21541S	19	H21541S	16	9.2460	0.8030	10	84		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Chromium	62644	1	S21541J4	17	S21541J4	15	0.7134	0.2317	0.5	96		75	125
Copper	62644	1	S21541J4	17	S21541J4	15	0.7412	0.2280	0.5	103		75	125
Lead	62644	1	S21541J4	17	S21541J4	15	0.8040	0.2488	0.5	111		75	125
Mercury	62644	1	H21541S	18	H21541S	16	9.2250	0.8030	10	84		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 62644

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD00314-012

Analyte	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Chromium	1	S21541J4	19	S21541J4	15	0.7445	0.2317	0.50	103		80	120
Copper	1	S21541J4	19	S21541J4	15	0.7496	0.2280	0.50	104		80	120
Lead	1	S21541J4	19	S21541J4	15	0.7476	0.2488	0.50	100		80	120

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 62645

Instrument Type: ICPMS

Analytical Method(s):6020/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 62645

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	62645	1	S100217A	17	58.2200	57	102		75.1	124.9
Cadmium	62645	1	S100217A	17	77.7300	77.8	100		82.8	117.2
Selenium	62645	1	S100217A	17	80.4500	78.9	102		77.6	122.4
Silver	62645	1	S100217A	17	58.0500	54.2	107		74.7	125.3

TxtQcType: LCS Matrix: SOIL SampleID: LCS 62645

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	62645	1	S100217A	16	57.3700	57	101		75.1	124.9
Cadmium	62645	1	S100217A	16	76.3700	77.8	98		82.8	117.2
Selenium	62645	1	S100217A	16	78.2200	78.9	99		77.6	122.4
Silver	62645	1	S100217A	16	56.9200	54.2	105		74.7	125.3

TxtQcType: MSD Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	62645	1	S100217A	26	S100217A	18	234.2000	22.6200	250	85		75	125
Cadmium	62645	1	S100217A	26	S100217A	18	223.1000	2U	250	89		75	125
Selenium	62645	1	S100217A	26	S100217A	18	201.2000	10U	250	80		75	125
Silver	62645	1	S100217A	26	S100217A	18	41.5900	1U	50	83		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	62645	1	S100217A	25	S100217A	18	222.3000	22.6200	250	80		75	125
Cadmium	62645	1	S100217A	25	S100217A	18	213.0000	2U	250	85		75	125
Selenium	62645	1	S100217A	25	S100217A	18	197.6000	10U	250	79		75	125
Silver	62645	1	S100217A	25	S100217A	18	38.6800	1U	50	77		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 62645

Instrument Type: ICPMS

Analytical Method(s):6020/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD00314-012

Analyte	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	1	S100217A	27	S100217A	18	70.1200	22.6200	50	95		80	120
Cadmium	1	S100217A	27	S100217A	18	47.7900	2U	50	96		80	120
Selenium	1	S100217A	27	S100217A	18	236.4000	10U	250	95		80	120
Silver	1	S100217A	27	S100217A	18	46.1600	1U	50	92		80	120

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 62650

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 62650

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Barium	62650	1	S21541K4	14	1.0029	1.10	91		82	118

TxtQcType: LCS Matrix: SOIL SampleID: LCS 62650

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Barium	62650	1	S21541K4	13	0.9501	1.10	86		82	118

TxtQcType: MSD Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Barium	62650	1	S21541K4	18	S21541K4	15	1.4115	1.2108	0.5	40	a	75	125

TxtQcType: MS Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Barium	62650	1	S21541K4	17	S21541K4	15	1.1243	1.2108	0.5	-17	a	75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 62650

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD00314-012

Analyte	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Barium	1	S21541K4	19	S21541K4	15	1.8067	1.2108	0.50	119		80	120

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 62644

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 62644

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Chromium	62644	S21541J4	14	S21541J4	13	0.6926	0.6743	2.7		20
Copper	62644	S21541J4	14	S21541J4	13	0.5971	0.5793	3		20
Lead	62644	S21541J4	14	S21541J4	13	0.8427	0.8328	1.2		20
Mercury	62644	H21541S	15	H21541S	14	13.1900	14.1300	6.9		20

TxtQcType: MR Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Chromium	62644	S21541J4	16	S21541J4	15	0.2822	0.2317	20		20
Copper	62644	S21541J4	16	S21541J4	15	0.2925	0.2280	25	a	20
Lead	62644	S21541J4	16	S21541J4	15	0.4064	0.2488	48	a	20
Mercury	62644	H21541S	17	H21541S	16	0.6600	0.8030	20		20

TxtQcType: MSD Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	Data Fil	Seq#:	MS File	Seq#	Result 1	Result 2	RPD		Limit
Chromium	62644	S21541J4	18	S21541J4	17	0.6906	0.7134	3.2		20
Copper	62644	S21541J4	18	S21541J4	17	0.6917	0.7412	6.9		20
Lead	62644	S21541J4	18	S21541J4	17	0.7165	0.8040	12		20
Mercury	62644	H21541S	19	H21541S	18	9.2460	9.2250	.23		20

TxtQcType: SD Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Chromium	62644	S21541J4	23	S21541J4	15	5	0.0467	0.2317	0.78		10
Copper	62644	S21541J4	23	S21541J4	15	5	0.0457	0.2280	0.26		10
Lead	62644	S21541J4	23	S21541J4	15	5	0.0579	0.2488	16	a	10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 62645

Instrument Type: ICPMS

Analytical Method(s):6020/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 62645

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	62645	S100217A	17	S100217A	16	58.2200	57.3700	1.5	20
Cadmium	62645	S100217A	17	S100217A	16	77.7300	76.3700	1.8	20
Selenium	62645	S100217A	17	S100217A	16	80.4500	78.2200	2.8	20
Silver	62645	S100217A	17	S100217A	16	58.0500	56.9200	2	20

TxtQcType: MR Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	62645	S100217A	19	S100217A	18	21.8300	22.6200	3.6	20
Cadmium	62645	S100217A	19	S100217A	18	2U	2U	---	20
Selenium	62645	S100217A	19	S100217A	18	10U	10U	---	20
Silver	62645	S100217A	19	S100217A	18	1U	1U	---	20

TxtQcType: MSD Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	Data Fil	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	62645	S100217A	26	S100217A	25	234.2000	222.3000	5.2	20
Cadmium	62645	S100217A	26	S100217A	25	223.1000	213.0000	4.6	20
Selenium	62645	S100217A	26	S100217A	25	201.2000	197.6000	1.8	20
Silver	62645	S100217A	26	S100217A	25	41.5900	38.6800	7.3	20

TxtQcType: SD Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Arsenic	62645	S100217A	24	S100217A	18	5	4.6080	22.6200	1.9		10
Cadmium	62645	S100217A	24	S100217A	18	5	0.1353	0.6756	0.13		10
Selenium	62645	S100217A	24	S100217A	18	5	1.1160	5.7190	2.4		10
Silver	62645	S100217A	24	S100217A	18	5	0.0408	0.2603	22	c	10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 62650

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 62650

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Barium	62650	S21541K4	14	S21541K4	13	1.0029	0.9501	5.4		20

TxtQcType: MR Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Barium	62650	S21541K4	16	S21541K4	15	0.9825	1.2108	21	a	20

TxtQcType: MSD Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	Data Fil	Seq#:	MS File	Seq#	Result 1	Result 2	RPD		Limit
Barium	62650	S21541K4	18	S21541K4	17	1.4115	1.1243	23	a	20

TxtQcType: SD Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Barium	62650	S21541K4	23	S21541K4	15	5	0.2994	1.2108	24	a	10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B 200.7/200.8 OTHER_____

Batch No.: 21941 Analyst: CM

QC Number: 62644 Prep Date: 9/30/17

Matrix: SOIL Reviewed By: RB

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50mL	50mL				–	Balance used: 38
LCS	0.5g	↓				–	Pipettes used: 149,144
LCSD	↓	↓				–	
1. 00314-012	1.0g	100mL					Hot Block used: 4
MR -012	0.5g	↓					
MS -012	↓	↓					
MSD -012	↓	↓					
2. 00314-007	↓	↓					
3. -009	↓	↓					
4. -010	↓	↓					
5. 00294-001	↓	↓					
6. 00293-001	↓	↓					
7. 00297-002	↓	↓					
8. 00319-002	↓	↓					
9. 00298-002	↓	↓					
10. 00274-001	↓	↓					
11. -002	↓	↓					
12. -003	↓	↓					
13. -004	↓	↓					
14. -005	↓	↓					
15.							
16.							
17.							
18.							
19.							
20.							
21.							
22.							

Hot Plate Temperature: 93.7 C (90-95° C) Start Time: 11:00 End Time: 13:40

	Volume mL	Lot #
	0.5g	V-10950
LCSD		V-
	0.20mL	V-11062, 11063.
MSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5	V-11137
HCl	5	V-11019
H_2O_2	1.5	V-10899

Acid	Vol mL	Lot#
1:1 HNO_3	5	V-2[illegible]
1:1 HCl		V-

Relinquished By CM Date 9/30/17

Received By [illegible] Date 10/4/17

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RESET

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B 200.7/200.8 OTHER

Batch No.: 21541 Analyst: CM

QC Number: 62650 Prep Date: 10/2/17

Matrix: SOIL Reviewed By: SB

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50mL	50mL				--	Balance used: 4.38
LCS	0.5g					--	Pipettes used: 149, 144
LCSD						--	
1. 00314-012	1.0g	100mL					Hot Block used: 4
MR -012	0.5g	50mL					
MS -012							
MSD -012							
2. 00314-007							
3. -009							
4. -010							
5. 00294-001							
6. 00293-001							
7. 00297-002							
8. 00319-002							
9. 00298-002							
10. 00274-001							
11. -002							
12. -003							
13. -004							
14. -005							
15.							
16.							
17.							
18.							
19.							
20.							

Hot Plate Temperature: 93.1 C (90-95° C) Start Time: 11:45 End Time: 14:00

	Volume mL	Lot #
LCS, LCSD	0.5g	V- 10950
LLLCS, LLLCSD		V-
MS, MSD	0.25mL	V- 11062, 11063
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5	V-11137
HCl	5	V-11105
H_2O_2	1.5	V-10879

Acid	Vol mL	Lot#
1:1 HNO_3	5	V-2626
1:1 HCl		V-

Relinquished By CM Date 10/2/17

Received By CM Date 10/9/17

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Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B 200.7/200.8 OTHER_____

Batch No.: 21042 **Analyst:** CM

QC Number: 62647 **Prep Date:** 9/30/17

Matrix: SOIL - 6020 **Reviewed By:** m

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50mL	50mL	25mL	50mL		–	Balance used: 38
LCS	0.1g					–	Pipettes used: 149, 144
LCSD						–	
1. 00314-012	0.5g						Hot Block used: 4
MR -012							
MS -012							
MSD -012							
2. 00314-007							
3. -009							
4. -010.							
5. 00294-001							
6. 00293-001							
7. 00297-002							
8. 00182-016							
9. 00319-002							
10. 00298-002							
11. 00274-001							
12. -002							
13. -003							
14. -004							
15. -005							
16. 00324-001							
17. -002							
18. -003							
19. -004							
20. -005							

Hot Plate Temperature: 93.7 C (90-95° C) **Start Time:** 11:00 **End Time:** 13:20.

	Volume mL	Lot #
LCS, LCSD	0.1g	V-109550
LLLCS, LLLCSD		V-
MS, MSD	0.25	V-11062, 11063
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5	V-11137
HCl CM	~~5~~	V-~~11015~~
H_2O_2	1.5	V-10870

Acid	Vol mL	Lot#
1:1 HNO_3	5	V-262678.
1:1 HCl		V-

Relinquished By CM **Date** 9/30/17

Received By m **Date** 9/30/17

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HG SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 245.1 7470A (7471B) OTHER_____

Batch No.:* 21041

Number: 62644

Matrix: SOIL

Analyst: GJ

Prep Date: 9/30/17

Review By: QA

LAB ID#	MERCURY INITIAL	MERCURY FINAL	COMMENTS	STANDARDS
Blank	25mL	25mL		CAL CURVE BLK 0ppb V- 264464
	0.15g			
				STD 0.2 ppb V- 264465
314-012				STD 0.5 ppb V- 466
-012				STD 1.0 ppb V- 467
-012				STD 2.0 ppb V- 468
-012				STD 5.0 ppb V- 469
314-007				STD 10.0 ppb V- 470
-009				STD 25.0 ppb V- 471
-010				ICV 10.0 ppb V- 264462
294-001				CCV 20.0 ppb V- 264463
203-001				
207-002				
519-002				Balance used: 38
08-002				Pipettes used: 121, 132, 136, 150
74-001				
-002				Hot Block used: 7
-003				
-004				
-005				

Lot Numbers	Acid	Volume (mL)		Lot #
$KMnO_4$: V- 2506347	HNO_3			V-
$K_2S_2O_8$: V-	HCl			V-
NH_2OH: V- 2506349	H_2SO_4			V-
	Aqua Regia	1.25mL		V- 264461

**Block Temp: °C	92.4
Time In Block	12:00
Time Out of Block	12:30

Spike Volume & Lot #

☐ LCS V- 109970 0.15g / 0.25 ml

☐ MS V- 264460 0.250 ml

☐ Standards/Control Batch B- 23722

Start time: 11:00 End Time: 12:30

**Temperature
245.1 / 7470A: 90-95C
7471B : 92-98C

Relinquished By: GJ

*25 mLs of each standard was digested with this batch using the same reagents and at the same time as the above samples. The preparation of each standard may be referenced in Veriprog using the standard batch number and the corresponding V #s.

HG PREP 2016

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\HGCV2A\H21541S.txt

Analysis Date: 10/02/17

Instrument: HGCV2A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
Calibration Blank	1	CAL	11:57	1							0
.2 PPB	1	CAL	11:58	2							0
.5 PPB	1	CAL	12:00	3							0
1 PPB	1	CAL	12:01	4							0
2 PPB	1	CAL	12:02	5							0
5 PPB	1	CAL	12:04	6							0
10 PPB	1	CAL	12:05	7							0
25 PPB	1	CAL	12:07	8							0
ICV (2)	1	ICV	12:09	9							0
ICB	1	ICB	12:10	10							0
MB 62644 (167)	1	MB	12:12	11		SOIL	SOIL	SW846	62644		0
LCS 62644	1	NA	12:13	12		SOIL	SOIL	SW846	62644	over calibration range	0
LCS MR 62644	1	NA	12:15	13		SOIL	SOIL	SW846	62644	over calibration range	0
LCS 5D	5	LCS	12:16	14		SOIL	SOIL	SW846	62644		0
LCS MR 5D	5	LCS	12:18	15		SOIL	SOIL	SW846	62644		0
AD00314-012	1	SMP	12:20	16	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00314-012	1	MR	12:21	17	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00314-012	1	MS	12:22	18	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00314-012	1	MSD	12:24	19	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00314-007	1	SMP	12:26	20	HG-SOIL	SOIL	SOIL	SW846	62644		0
CCV	1	CCV	12:27	21							0
CCB	1	CCB	12:29	22							0
AD00314-009	1	SMP	12:30	23	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00314-010	1	SMP	12:32	24	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00294-001	1	SMP	12:33	25	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00293-001	1	SMP	12:34	26	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00297-002	1	SMP	12:36	27	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00319-002	1	SMP	12:37	28	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00298-002	1	SMP	12:38	29	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00274-001	1	SMP	12:39	30	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00274-002	1	SMP	12:41	31	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00274-003	1	SMP	12:42	32	HG-SOIL	SOIL	SOIL	SW846	62644		0
CCV	1	CCV	12:43	33							0
CCB	1	CCB	12:45	34							0
AD00274-004	1	SMP	12:47	35	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00274-005	1	SMP	12:48	36	HG-SOIL	SOIL	SOIL	SW846	62644		0
CCV	1	CCV	12:49	37							0
CCB	1	CCB	12:51	38							0

Comments/Reviewedby:

olufemi
192.168.1.25 10/2/2017 2:25:45 PM

RUN IS OK

R 10/4/17

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

V-264489

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS2_7500SWA\S100217A.b\S100217A.TXT

Analysis Date: 10/02/17 **Instrument:** MS2_7500SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
Rinse	1	NA	10:49	1	MET-SRS6020S	SOIL	SOIL	SW846	62645		0
CalBlk V-264474	1	ISBLK	10:55	2		SOIL	SOIL				V-264474(Cal Blk WARNING)
CalStd1 V-264475	1	CAL	11:01	3							V-264475(Cal Std-1 WARNING)
CalStd2 V-264476	1	CAL	11:08	4							V-264476(Cal Std-2 WARNING)
CalStd3 V-264477	1	CAL	11:14	5							V-264477(Cal Std-3 WARNING)
CalStd4 V-264478	1	CAL	11:20	6							V-264478(Cal Std-4 WARNING)
CalStd5 V-264479	1	CAL	11:25	7							V-264479(Cal Std-5 WARNING)
ICV V-264480	1	ICV	11:31	8							V-264480(ICV WARNING)
LLICV V-264485	1	LLICV	11:37	9	MET-SRS6020S	SOIL	SOIL	SW846	62645		V-264485(LL-ICV/CCV SOIL WARNING)
ICB V-264481	1	ICB	11:43	10							V-264481(ICB/CCB WARNING)
ICSA V-264482	1	ICSA	11:48	11							V-264482(ICSA WARNING)
ICSAB V-264483	1	ICSAB	11:54	12							V-264483(ICSAB WARNING)
RINSE	1	NA	12:00	13	MET-SRS6020S	SOIL	SOIL	SW846	62645		0
AD00268-001	2	SMP	12:06	14	MET-5-6020	SOIL	SOIL	SW846	62639	Report Be.	0
MB 62645	1	MB	12:12	15	MET-SRS6020S	SOIL	SOIL	SW846	62645		0
LCS 62645	1	LCS	12:17	16	MET-SRS6020S	SOIL	SOIL	SW846	62645		0
LCS MR 62645	1	LCS	12:23	17	MET-SRS6020S	SOIL	SOIL	SW846	62645		0
AD00314-012	1	SMP	12:29	18	MET-5-6020	SOIL	SOIL	SW846	62645		0
AD00314-012	1	MR	12:34	19	MET-5-6020	SOIL	SOIL	SW846	62645		0
RINSE	1	NA	12:40	20	MET-SRS6020S	SOIL	SOIL	SW846	62645		0
CCV V-264484	1	CCV	12:46	21							V-264484(CCV WARNING)
LLCCV V-264485	1	LLCCV	12:52	22	MET-SRS6020S	SOIL	SOIL	SW846	62645		V-264485(LL-ICV/CCV SOIL WARNING)
CCB V-264481	1	CCB	12:58	23							V-264481(ICB/CCB WARNING)
AD00314-012	5	SD	13:03	24	MET-5-6020	SOIL	SOIL	SW846	62645		0
AD00314-012	1	MS	13:09	25	MET-5-6020	SOIL	SOIL	SW846	62645		0
AD00314-012	1	MSD	13:15	26	MET-5-6020	SOIL	SOIL	SW846	62645		0
AD00314-012	1	PS	13:20	27	MET-5-6020	SOIL	SOIL	SW846	62645		0
AD00314-007	1	SMP	13:26	28	MET-5-6020	SOIL	SOIL	SW846	62645	Rerun Be.	0
AD00314-009	1	SMP	13:31	29	MET-5-6020	SOIL	SOIL	SW846	62645		0
AD00314-010	1	SMP	13:37	30	MET-5-6020	SOIL	SOIL	SW846	62645	Rerun Be.	0
AD00294-001	1	SMP	13:43	31	MET-SRS6020S	SOIL	SOIL	SW846	62645	Rerun Be.	0
AD00293-001	1	SMP	13:48	32	MET-TAL6020S	SOIL	SOIL	SW846	62645		0
RINSE	1	NA	13:55	33		SOIL	SOIL	SW846	62645		0
CCV V-264484	1	CCV	14:00	34							V-264484(CCV WARNING)
LLCCV V-264485	1	LLCCV	14:06	35		SOIL	SOIL	SW846	62645		V-264485(LL-ICV/CCV SOIL WARNING)
CCB V-264481	1	CCB	14:12	36							V-264481(ICB/CCB WARNING)
AD00297-002	1	SMP	14:18	37	MET-TAL6020S	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00182-016	1	SMP	14:23	38	MET-2-6020	SOIL	SOIL	SW846	62645		0
AD00319-002	1	SMP	14:29	39	MET-TAL6020S	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00298-002	1	SMP	14:35	40	MET-RCRA-MS	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00324-001	1	NA	14:40	41	MET-1-6020	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00324-002	1	NA	14:46	42	MET-1-6020	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00324-003	1	NA	14:52	43	MET-1-6020	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00324-004	1	NA	14:57	44	MET-1-6020	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00324-005	1	NA	15:03	45	MET-1-6020	SOIL	SOIL	SW846	62645	Rerun As.	0
RINSE	1	NA	15:09	46		SOIL	SOIL	SW846	62645		0
CCV V-264484	1	CCV	15:15	47							V-264484(CCV WARNING)
LLCCV V-264485	1	LLCCV	15:20	48		SOIL	SOIL	SW846	62645	As fail.	V-264485(LL-ICV/CCV SOIL WARNING)
CCB V-264481	1	CCB	15:26	49							V-264481(ICB/CCB WARNING)
AD00274-001	1	SMP	15:32	50	MET-RCRA-MS	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00274-002	1	SMP	15:38	51	MET-RCRA-MS	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00274-003	1	SMP	15:43	52	MET-RCRA-MS	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00274-004	1	SMP	15:49	53	MET-RCRA-MS	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00274-005	1	SMP	15:55	54	MET-RCRA-MS	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00314-007	10	NA	16:01	55	MET-5-6020	SOIL	SOIL	SW846	62645		0
AD00314-010	2	NA	16:06	56	MET-5-6020	SOIL	SOIL	SW846	62645		0
AD00294-001	5	NA	16:12	57	MET-SRS6020S	SOIL	SOIL	SW846	62645		0
RINSE	1	NA	16:18	58		SOIL	SOIL	SW846	62645		0

Comments/Reviewedby:

pcousineau
192.168.1.28 10/3/2017 12:29:37 PM

Run ok. Report Ag, As, Be, Cd, Sb, Se, Tl. Rerun Be for 00314-007, 010, 00294-001 (int. std. 45 fail). Rerun As for 00297-002, 00319-002, 00298-002, 00274-001~005, 00324-001~005 (LLCCV fail). PC. B-21536 Report Be for 00268-001.

10/4/17

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 9/30/17

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS2_7500SWA\S100217A.b\S100217A.TXT

Analysis Date: 10/02/17

Instrument: MS2_7500SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CCV V-264484	1	CCV	16:24	59							V-264484(CCV WARNING)
LLCCV V-264485	1	LLCCV	16:30	60		SOIL	SOIL	SW846	62645		V-264485(LL-ICV/CCV SOIL WARNING)
CCB V-264481	1	CCB	16:36	61							V-264481(ICB/CCB WARNING)

Comments/Reviewedby:

pcousineau
192.168.1.28 10/3/2017 12:29:37 PM

Run ok. Report Ag, As, Be, Cd, Sb, Se, Tl. Rerun Be for 00314-007, 010, 00294-001 (int. std. 45 fail). Rerun As for 00297-002, 00319-002, 00298-002, 00274-001~005, 00324-001~005 (LLCCV fail). PC. B-21536 Report Be for 00268-001.

e 10/4/17

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 20 9/30/17

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP4A\S21541J4.txt

Analysis Date: 10/04/17

Instrument: PEICP4A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-261851	1	CAL	10:39	1							V-261851(ICB/CCB)
CALST1 V-263294	1	CAL	10:42	2							V-263294(ICS1 Lowest std)
CALST2 V-263538	1	CAL	10:46	3							V-263538(ICS2- Low Std)
CALST3 V-263925	1	CAL	10:49	4							V-263925(ICS3 - Middle Std)
CALST4 V-263540	1	CAL	10:52	5							V-263540(ICS4 High std)
ICS3 V-263925	1	ICS	10:56	6							V-263925(ICS3 - Middle Std)
ICV V-263834	1	ICV	10:59	7							V-263834(CCV)
LLICV [soil] V-264209	1	LLICV	11:03	8	MET-RCRA-S	SOIL	SOIL	SW846	62644		V-264209(LLICV/LLCCV soil)
ICB V-261851	1	ICB	11:06	9							V-261851(ICB/CCB)
ICSA V-263927	1	ICSA	11:09	10							V-263927(ICSA)
ICSAB V-263293	1	ICSAB	11:14	11							V-263293(ICSAB)
MB 62644 (100)	1	MB	11:19	12	MET-RCRA-S	SOIL	SOIL	SW846	62644		()
LCS 62644	1	LCS	11:22	13	MET-RCRA-S	SOIL	SOIL	SW846	62644	Ba failed in LCS	()
LCS MR 62644	1	LCS	11:27	14	MET-RCRA-S	SOIL	SOIL	SW846	62644	Ba failed in LCS	()
AD00314-012	1	SMP	11:31	15	SRSMETALS-S	SOIL	SOIL	SW846	62644		()
AD00314-012	1	MR	11:35	16	SRSMETALS-S	SOIL	SOIL	SW846	62644		()
AD00314-012	1	MS	11:38	17	SRSMETALS-S	SOIL	SOIL	SW846	62644		()
AD00314-012	1	MSD	11:42	18	SRSMETALS-S	SOIL	SOIL	SW846	62644		()
AD00314-012	1	PS	11:45	19	SRSMETALS-S	SOIL	SOIL	SW846	62644		()
CCV V-263834	1	CCV	11:49	20							V-263834(CCV)
LLCCV [soil] V-264209	1	LLCCV	11:52	21	MET-RCRA-S	SOIL	SOIL	SW846	62644		V-264209(LLICV/LLCCV soil)
CCB	1	CCB	11:56	22							()
AD00314-012	5	SD	11:59	23	SRSMETALS-S	SOIL	SOIL	SW846	62644		()
AD00314-007	1	SMP	12:02	24	SRSMETALS-S	SOIL	SOIL	SW846	62644	Mn not reported (higher than LR)	()
ICSA V-263927	1	ICSA	12:07	25							V-263927(ICSA)
ICSAB V-263293	1	ICSAB	12:12	26							V-263293(ICSAB)
CCV V-263834	1	CCV	12:17	27							V-263834(CCV)
LLCCV [soil] V-264209	1	LLCCV	12:20	28	MET-RCRA-S	SOIL	SOIL	SW846	62644		V-264209(LLICV/LLCCV soil)
CCB	1	CCB	12:24	29							()
AD00314-009	1	SMP	12:27	30	SRSMETALS-S	SOIL	SOIL	SW846	62644		()
AD00314-010	1	SMP	12:32	31	SRSMETALS-S	SOIL	SOIL	SW846	62644		()
AD00294-001	1	SMP	12:36	32	MET-SRS6010S	SOIL	SOIL	SW846	62644		()
AD00293-001	1	SMP	12:40	33	MET-TAL6010S	SOIL	SOIL	SW846	62644		()
AD00297-002	1	SMP	12:44	34	MET-TAL6010S	SOIL	SOIL	SW846	62644		()
AD00319-002	1	SMP	12:47	35	MET-TAL6010S	SOIL	SOIL	SW846	62644		()
AD00298-002	1	SMP	12:51	36	MET-RCRA-S	SOIL	SOIL	SW846	62644		()
ICSA V-263927	1	ICSA	12:55	37							V-263927(ICSA)
ICSAB V-263293	1	ICSAB	12:59	38							V-263293(ICSAB)
CCV V-263834	1	CCV	13:04	39							V-263834(CCV)
LLCCV [soil] V-264209	1	LLCCV	13:08	40	MET-RCRA-S	SOIL	SOIL	SW846	62644		V-264209(LLICV/LLCCV soil)
CCB	1	CCB	13:11	41							()
AD00274-001	1	SMP	13:14	42	MET-RCRA-S	SOIL	SOIL	SW846	62644		()
AD00274-002	1	SMP	13:18	43	MET-RCRA-S	SOIL	SOIL	SW846	62644		()
AD00274-003	1	SMP	13:22	44	MET-RCRA-S	SOIL	SOIL	SW846	62644	Cr not reported, (higher than LR)	()
AD00274-004	1	SMP	13:27	45	MET-RCRA-S	SOIL	SOIL	SW846	62644		()
AD00274-005	1	SMP	13:31	46	MET-RCRA-S	SOIL	SOIL	SW846	62644		()
AD00314-007	2	SMP	13:36	47	SRSMETALS-S	SOIL	SOIL	SW846	62644	Mn reported	()
AD00274-003	2	SMP	13:41	48	MET-RCRA-S	SOIL	SOIL	SW846	62644	Cr reported	()
ICSA V-263927	1	ICSA	13:45	49							V-263927(ICSA)
ICSAB V-263293	1	ICSAB	13:50	50							V-263293(ICSAB)
CCV V-263834	1	CCV	13:55	51							V-263834(CCV)
LLCCV [soil] V-264209	1	LLCCV	13:59	52	MET-RCRA-S	SOIL	SOIL	SW846	62644		V-264209(LLICV/LLCCV soil)
CCB	1	CCB	14:02	53							()
RINSE	1	SMP	14:05	54		SOIL	SOIL	SW846	62644		()

Comments/Reviewedby:

carmela
192.168.1.28 10/4/2017 2:32:13 PM

OK.
Ba not reported failed in LCS
10/5/17

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP4A\S21541K4.txt

Analysis Date: 10/04/17

Instrument: PEICP4A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-261851	1	CAL	14:38	1							V-261851(ICB/CCB)
CALST1 V-263294	1	CAL	14:41	2							V-263294(ICS1 Lowest std)
CALST2 V-263538	1	CAL	14:44	3							V-263538(ICS2- Low Std)
CALST3 V-263925	1	CAL	14:47	4							V-263925(ICS3 - Middle Std)
CALST4 V-263540	1	CAL	14:51	5							V-263540(ICS4 High std)
ICS3 V-263925	1	ICS	14:54	6							V-263925(ICS3 - Middle Std)
ICV V-263834	1	ICV	14:58	7							V-263834(CCV)
LLICV [soil] V-264209	1	LLICV	15:01	8		SOIL	SOIL	SW846	62650		V-264209(LLICV/LLCCV soil)
ICB V-261851	1	ICB	15:04	9							V-261851(ICB/CCB)
ICSA V-263927	1	ICSA	15:08	10							V-263927(ICSA)
ICSAB V-263293	1	ICSAB	15:13	11							V-263293(ICSAB)
MB 62650 (100)	1	MB	15:17	12		SOIL	SOIL	SW846	62650		()
LCS 62650	1	LCS	15:21	13		SOIL	SOIL	SW846	62650		()
LCS MR 62650	1	LCS	15:25	14		SOIL	SOIL	SW846	62650		()
AD00314-012	1	SMP	15:30	15	SRSMETALS-S	SOIL	SOIL	SW846	62650		()
AD00314-012	1	MR	15:34	16	SRSMETALS-S	SOIL	SOIL	SW846	62650		()
AD00314-012	1	MS	15:37	17	SRSMETALS-S	SOIL	SOIL	SW846	62650		()
AD00314-012	1	MSD	15:41	18	SRSMETALS-S	SOIL	SOIL	SW846	62650		()
AD00314-012	1	PS	15:44	19	SRSMETALS-S	SOIL	SOIL	SW846	62650		()
CCV V-263834	1	CCV	15:48	20							V-263834(CCV)
LLCCV [soil] V-264209	1	LLCCV	15:51	21		SOIL	SOIL	SW846	62650		V-264209(LLICV/LLCCV soil)
CCB	1	CCB	15:54	22							()
AD00314-012	5	SD	15:58	23	SRSMETALS-S	SOIL	SOIL	SW846	62650		()
AD00314-007	1	SMP	16:01	24	SRSMETALS-S	SOIL	SOIL	SW846	62650		()
AD00314-009	1	SMP	16:06	25	SRSMETALS-S	SOIL	SOIL	SW846	62650		()
AD00314-010	1	SMP	16:09	26	SRSMETALS-S	SOIL	SOIL	SW846	62650		()
AD00294-001	1	SMP	16:14	27	MET-SRS6010S	SOIL	SOIL	SW846	62650		()
AD00293-001	1	SMP	16:18	28	MET-TAL6010S	SOIL	SOIL	SW846	62650		()
AD00297-002	1	SMP	16:22	29	MET-TAL6010S	SOIL	SOIL	SW846	62650		()
AD00319-002	1	SMP	16:27	30	MET-TAL6010S	SOIL	SOIL	SW846	62650		()
ICSA V-263927	1	ICSA	16:31	31							V-263927(ICSA)
ICSAB V-263293	1	ICSAB	16:36	32							V-263293(ICSAB)
CCV V-263834	1	CCV	16:41	33							V-263834(CCV)
LLCCV [soil] V-264209	1	LLCCV	16:44	34		SOIL	SOIL	SW846	62650		V-264209(LLICV/LLCCV soil)
CCB	1	CCB	16:48	35							()
AD00298-002	1	SMP	16:51	36	MET-RCRA-S	SOIL	SOIL	SW846	62650		()
AD00274-001	1	SMP	16:54	37	MET-RCRA-S	SOIL	SOIL	SW846	62650		()
AD00274-002	1	SMP	16:58	38	MET-RCRA-S	SOIL	SOIL	SW846	62650		()
AD00274-003	1	SMP	17:03	39	MET-RCRA-S	SOIL	SOIL	SW846	62650		()
AD00274-004	1	NA	17:08	40	MET-RCRA-S	SOIL	SOIL	SW846	62650	Ba NOT reported (higher than LR)	()
AD00274-005	1	SMP	17:12	41	MET-RCRA-S	SOIL	SOIL	SW846	62650		()
AD00274-004	2	SMP	17:17	42	MET-RCRA-S	SOIL	SOIL	SW846	62650	Ba reported	()
ICSA V-263927	1	ICSA	17:21	43							V-263927(ICSA)
ICSAB V-263293	1	ICSAB	17:26	44							V-263293(ICSAB)
CCV V-263834	1	CCV	17:31	45							V-263834(CCV)
LLCCV [soil] V-264209	1	LLCCV	17:34	46		SOIL	SOIL	SW846	62650		V-264209(LLICV/LLCCV soil)
CCB	1	CCB	17:37	47							()
MB 62647 (100)	1	MB	17:40	48		SOIL	SOIL	SW846	62647		()
LCS 62647	1	LCS	17:44	49		SOIL	SOIL	SW846	62647		()
LCS MR 62647	1	LCS	17:48	50		SOIL	SOIL	SW846	62647		()
AD00316-027	1	SMP	17:53	51	MET-TAL6010S	SOIL	SOIL	SW846	62647		()
AD00316-027	1	MR	17:57	52	MET-TAL6010S	SOIL	SOIL	SW846	62647		()
AD00316-027	1	MS	18:00	53	MET-TAL6010S	SOIL	SOIL	SW846	62647		()
AD00316-027	1	MSD	18:04	54	MET-TAL6010S	SOIL	SOIL	SW846	62647		()
AD00316-027	1	PS	18:07	55	MET-TAL6010S	SOIL	SOIL	SW846	62647		()
CCV V-263834	1	CCV	18:11	56							V-263834(CCV)
LLCCV [soil] V-264209	1	LLCCV	18:14	57		SOIL	SOIL	SW846	62647		V-264209(LLICV/LLCCV soil)
CCB	1	CCB	18:17	58							()
AD00316-027	5	SD	18:21	59	MET-TAL6010S	SOIL	SOIL	SW846	62647		()
AD00316-026	1	SMP	18:24	60	MET-TAL6010S	SOIL	SOIL	SW846	62647		()

Comments/Reviewedby:

CARMELA
192.168.1.85 10/5/2017 1:12:39 PM

OK
BATCH# 21541/62650: Ba reported
BATHC# 21544/62647: ALL ELEMENTS EXCEPT EARTH ELEMENTS

10/5/17

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP4A\S21541K4.txt

Analysis Date: 10/04/17

Instrument: PEICP4A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
AD00316-028	1	SMP	18:28	61	MET-TAL6010S	SOIL	SOIL	SW846	62647		0
ICSA V-293927	1	ICSA	18:33	62							V-263927(ICSA)
ICSAB V-263293	1	ICSAB	18:37	63							V-263293(ICSAB)
CCV V-263834	1	CCV	18:42	64							V-263834(CCV)
LLCCV [soil] V-264209	1	LLCCV	18:46	65	MET-TAL6010S	SOIL	SOIL	SW846	62650		V-264209(LLICV/LLCCV soil)
CCB	1	CCB	18:49	66							0

Comments/Reviewedby:

CARMELA
192.168.1.85 10/5/2017 1:12:39 PM

OK.
BATCH# 21541/62650: Ba reported
BATHC# 21544/62647: ALL ELEMENTS EXCEPT EARTH ELEMENTS

10/5/17

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

ICPMS Internal Standard Summary Report

7092827 0231

TuneID: 1

Batch/FileID: S100217A Sample ID: CalBlk V-264474 Sample Date 10/02/17 Sample Time: 10:55

IS ID:	Area	Area Limit		
Ho-1	1197360	838152	-	1797237.36
In-1	477947.1	334562.97	-	717398.5971
Sc-1	100604.4	70423.08	-	151007.2044
Tb-1	1208543	845980.1	-	1814023.043

QcType	txtSamId:	Pos	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area	Area	Area	Area	Area
ISBLK	CalBlk V-264474	2	1197360	477947.1	100604.4	1208543				
SMP	Rinse	1	1100649	417652.3	91117.85	1117107				
CAL	CalStd1 V-26447	3	1211400	483454.0	99071.56	1230849				
CAL	CalStd2 V-26447	4	1227381	493981.3	102417.3	1255674				
CAL	CalStd3 V-26447	5	1231769	497798.0	104317.8	1250096				
CAL	CalStd4 V-26447	6	1257751	501722.4	109785.3	1270284				
CAL	CalStd5 V-26447	7	1234365	499363.8	111232.7	1261093				
ICV	ICV V-264480	8	1245568	504435.3	106355.1	1263477				
LLICV	LLICV V-264485	9	1263020	514318.2	108323.7	1296442				
ICB	ICB V-264481	10	1270785	513463.7	105672.4	1301578				
ICSA	ICSA V-264482	11	1184049	461520.2	127679.7	1206130				
ICSAB	ICSAB V-264483	12	1207629	470653.5	114937.8	1221839				
SMP	RINSE	13	1323002	545925.4	110404.4	1353531				
SMP	AD00268-001	14	1217043	483896.9	128548.6	1235493				
MB	MB 62645	15	1284468	528857.8	111629.9	1311292				
LCS	LCS 62645	16	1279405	516130.9	120330.2	1296028				
MR	LCS MR 62645	17	1266452	510337.4	119840.0	1290187				
SMP	AD00314-012	18	1307011	508095.8	152925.5 *	1321598				
MR	AD00314-012	19	1287418	491891.9	155090.6 *	1301521				
SMP	RINSE	20	1279636	530850.1	107659.3	1319766				
CCV	CCV V-264484	21	1254761	518201.5	111720.3	1287560				
LLCCV	LLCCV V-264485	22	1270473	521798.4	109297.8	1300594				
CCB	CCB V-264481	23	1263982	522880.6	107758.3	1291972				
SD	AD00314-012	24	1303944	524384.3	124435.6	1313557				
MS	AD00314-012	25	1258614	483968.1	144528.8	1271494				
MSD	AD00314-012	26	1261485	486885.8	144489.0	1269500				
PS	AD00314-012	27	1297616	501083.8	149004.8	1318502				
SMP	AD00314-007	28	1282232	458837.1	324072.4 *	1312773				
SMP	AD00314-009	29	1243088	450467.2	156238.5 *	1240227				
SMP	AD00314-010	30	1251567	464702.6	175775.5 *	1265681				
SMP	AD00294-001	31	1157541	409494.1	275458.4 *	1171220				
SMP	AD00293-001	32	1217493	464721.4	133582.5	1240297				
SMP	RINSE	33	1250361	518026.2	106052.4	1281446				
CCV	CCV V-264484	34	1235108	508374.8	109425.2	1252753				
LLCCV	LLCCV V-264485	35	1247860	511628.4	106641.0	1278304				
CCB	CCB V-264481	36	1235088	508269.2	104544.0	1249840				
SMP	AD00297-002	37	1227444	475994.8	140522.1	1236740				
SMP	AD00182-016	38	1427071	465349.3	219422.5 *	1431393				
SMP	AD00319-002	39	1219348	467240.4	140789.3	1241083				
SMP	AD00298-002	40	1178348	446902.8	152983.9 *	1181676				
SMP	AD00324-001	41	1148412	460225.9	110814.6	1172835				
SMP	AD00324-002	42	1131098	456426.9	117979.3	1135566				
SMP	AD00324-003	43	837980.2 *	334098.6 *	170280.1 *	851510.6				
SMP	AD00324-004	44	1003302	403048.6	124153.0	1034770				
SMP	AD00324-005	45	1062358	420771.0	135375.1	1077252				
SMP	RINSE	46	1219809	510548.6	106185.8	1229911				
CCV	CCV V-264484	47	1181132	489123.0	106120.3	1191955				
LLCCV	LLCCV V-264485	48	1177613	491111.7	102965.1	1202649				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

7092827 0232

TuneID: 1

CCB	CCB V-264481	49	1181420	493930.8	103414.1	1207704		
SMP	AD00274-001	50	1121996	462785.1	110338.0	1145994		
SMP	AD00274-002	51	1001140	405412.3	108055.7	1013363		
SMP	AD00274-003	52	1029742	418744.6	96328.24	1045665		
SMP	AD00274-004	53	1015311	408268.2	94360.87	1033882		
SMP	AD00274-005	54	798276.1 *	334287.9 *	82918.99	813488.8	*	101317
SMP	AD00314-007	55	1097959	434418.3	108660.5	1115288		
SMP	AD00314-010	56	1097101	412888.2	117637.1	1105808		
SMP	AD00294-001	57	1075037	414295.3	115404.9	1086875		
SMP	RINSE	58	1129011	450770.4	88669.43	1149545		
CCV	CCV V-264484	59	1036746	412951.1	85371.87	1055127		
LLCCV	LLCCV V-264485	60	1041020	415459.6	82619.75	1043765		
CCB	CCB V-264481	61	1053763	420892.3	81503.05	1073935		

ok 69.9%

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

7092827 0233

TuneID: 2

Batch/FileID: S100217A Sample ID: CalBlk V-264474 Sample Date 10/02/17 Sample Time: 10:55

IS ID:	Area	Area Limit		
Ho-2	2480116	1736081.2	-	3722654.116
In-2	1665487	1165840.9	-	2499895.987
Sc-2	1192548	834783.6	-	1790014.548
Tb-2	2531804	1772262.8	-	3800237.804

QcType	txtSamId:	Pos	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area		Area	Area	Area	Area
ISBLK	CalBlk V-264474	2	2480116	1665487	1192548	2531804					
SMP	Rinse	1	2410591	1649152	1180992	2477864					
CAL	CalStd1 V-26447	3	2460997	1669998	1169584	2511226					
CAL	CalStd2 V-26447	4	3268052	2224701	1548088	3313187					
CAL	CalStd3 V-26447	5	2516695	1690482	1211593	2539397					
CAL	CalStd4 V-26447	6	2542493	1690649	1249224	2551856					
CAL	CalStd5 V-26447	7	2509994	1676335	1270547	2541304					
ICV	ICV V-264480	8	2524084	1684770	1217977	2568773					
LLICV	LLICV V-264485	9	2528919	1688224	1213203	2561264					
ICB	ICB V-264481	10	2537836	1720605	1206866	2582457					
ICSA	ICSA V-264482	11	2423304	1603571	1374728	2462276					
ICSAB	ICSAB V-264483	12	2457736	1619434	1321133	2513187					
SMP	RINSE	13	2653194	1784157	1241874	2686149					
SMP	AD00268-001	14	2463979	1640034	1615066	2522172					
MB	MB 62645	15	2602812	1738410	1266600	2644464					
LCS	LCS 62645	16	2527186	1692916	1301796	2546953					
MR	LCS MR 62645	17	2554217	1686524	1319599	2603123					
SMP	AD00314-012	18	2584032	1648273	1641100	2623373					
MR	AD00314-012	19	2573359	1623015	1694702	2604324					
SMP	RINSE	20	2554727	1737342	1204298	2616813					
CCV	CCV V-264484	21	2528492	1688445	1235428	2580376					
LLCCV	LLCCV V-264485	22	2511426	1710454	1218264	2572261					
CCB	CCB V-264481	23	2526123	1713300	1201305	2573699					
SD	AD00314-012	24	2565249	1690050	1346617	2622508					
MS	AD00314-012	25	2554326	1613130	1582453	2598911					
MSD	AD00314-012	26	2544559	1619620	1596286	2582281					
PS	AD00314-012	27	2597977	1677897	1659793	2638308					
SMP	AD00314-007	28	2553875	1552098	3561511	* 2644221					
SMP	AD00314-009	29	2718718	1665083	1795286	* 2740826	OK. 150.5% 10/3/17 m				
SMP	AD00314-010	30	2536055	1566007	1939943	* 2558777					
SMP	AD00294-001	31	2492583	1494552	3046230	* 2526228					
SMP	AD00293-001	32	2481875	1560582	1504977	2523973					
SMP	RINSE	33	2541079	1723304	1186069	2600182					
CCV	CCV V-264484	34	2494731	1681907	1208369	2532196					
LLCCV	LLCCV V-264485	35	2477837	1704684	1177932	2532053					
CCB	CCB V-264481	36	2478218	1675927	1168882	2522532					
SMP	AD00297-002	37	2443418	1577878	1485473	2474934					
SMP	AD00182-016	38	2890057	1585493	2419574	* 2916108					
SMP	AD00319-002	39	2470321	1562031	1558682	2483314					
SMP	AD00298-002	40	2388811	1502683	1690135	2408952					
SMP	AD00324-001	41	2369089	1582074	1275628	2417154					
SMP	AD00324-002	42	2376096	1570269	1295461	2414204					
SMP	AD00324-003	43	1805676	1169254	1912647	* 1835331					
SMP	AD00324-004	44	2160677	1419184	1410510	2177474					
SMP	AD00324-005	45	2222502	1451782	1517741	2246532					
SMP	RINSE	46	2485411	1722434	1207435	2562724					
CCV	CCV V-264484	47	2381036	1624033	1173602	2436701					
LLCCV	LLCCV V-264485	48	2419755	1651289	1164747	2473431					

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

CCB	CCB V-264481	49	2418430		1647522	1146420	2450402	
SMP	AD00274-001	50	2235395		1513717	1149899	2304887	
SMP	AD00274-002	51	2048730		1395549	1105957	2081654	
SMP	AD00274-003	52	2164201		1426420	1027546	2185705	
SMP	AD00274-004	53	2083744		1397993	1048326	2136627	
SMP	AD00274-005	54	1684561	*	1183827	918081.9	1713868	*
SMP	AD00314-007	55	2249110		1453983	1205414	2280599	
SMP	AD00314-010	56	2286545		1408178	1341889	2315572	
SMP	AD00294-001	57	2218111		1433812	1291781	2250604	
SMP	RINSE	58	2199848		1460178	957094.1	2258849	
CCV	CCV V-264484	59	2217959		1431263	987192.3	2243952	
LLCCV	LLCCV V-264485	60	2167867		1419059	940864.1	2212064	
CCB	CCB V-264481	61	2105341		1388268	907597.5	2154282	

* Indicates Internal Standard Area outside of limits

TCLP Metal Data

Form1
Inorganic Analysis Data Sheet

Sample ID:	AD00298-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	475 EXTERIOR NYRE	Units:	MG/L	Lab Code:		Sdg No:	
Matrix:	TCLP	Date Rec:	9/29/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.10	ND	1	50	50	10/04/17	62637	T21534B2	28	P	PEICP2A
7440-39-3	Barium	0.25	0.41	1	50	50	10/04/17	62637	T21534B2	28	P	PEICP2A
7440-43-9	Cadmium	0.050	ND	1	50	50	10/04/17	62637	T21534B2	28	P	PEICP2A
7440-47-3	Chromium	0.10	ND	1	50	50	10/04/17	62637	T21534B2	28	P	PEICP2A
7439-92-1	Lead	0.050	ND	1	50	50	10/04/17	62637	T21534B2	28	P	PEICP2A
7439-97-6	Mercury	0.00050	ND	1	25	25	10/04/17	62637	H21534T	17	CV	HGCV2A
7782-49-2	Selenium	0.10	ND	1	50	50	10/04/17	62637	T21534B2	28	P	PEICP2A
7440-22-4	Silver	0.050	ND	1	50	50	10/04/17	62637	T21534B2	28	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 62637 (1) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 62637 (1) Units: MG/L Lab Code:
Matrix: TCLP
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	1.0	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-36-0	Antimony	0.070	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-38-2	Arsenic	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-39-3	Barium	0.25	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-41-7	Beryllium	0.012	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-43-9	Cadmium	0.050	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-70-2	Calcium	5.0	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-47-3	Chromium	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-48-4	Cobalt	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-50-8	Copper	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7439-89-6	Iron	1.0	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7439-92-1	Lead	0.050	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7439-95-4	Magnesium	5.0	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7439-96-5	Manganese	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7439-97-6	Mercury	0.00050	ND	1	25	25	10/04/17	62637	H21534T	11	CV	HGCV2A
7439-98-7	Molybdenum	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-02-0	Nickel	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7782-49-2	Selenium	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-22-4	Silver	0.050	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-28-0	Thallium	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-31-5	Tin	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-32-6	Titanium	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-62-2	Vanadium	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-66-6	Zinc	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM 2
(ICV/CCV Summary)

Date Analyzed: 10/04/17
Data File: T21534B2
Prep Batch: 62637
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-263834-7	Rec	CCV V-263834-20	Rec	CCV V-263834-32	Rec		Rec		Rec		Rec		Rec		Rec
Arsenic	.5/.5	0.49708	99	0.46461	93	0.45403	91										
Barium	.5/.5	0.49754	100	0.46914	94	0.46000	92										
Cadmium	.5/.5	0.48972	98	0.46504	93	0.45626	91										
Chromium	.5/.5	0.50929	102	0.47841	96	0.47034	94										
Copper	.5/.5	0.50934	102	0.48774	98	0.47702	95										
Lead	.5/.5	0.50874	102	0.47346	95	0.46816	94										
Nickel	.5/.5	0.49264	99	0.46368	93	0.45705	91										
Selenium	.5/.5	0.50909	102	0.46870	94	0.45960	92										
Silver	0.1/0.1	0.09723	97	0.09154	92	0.09013	90										
Zinc	.5/.5	0.50923	102	0.46357	93	0.45893	92										

Notes:
a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits:
ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 10/04/17
Data File: T21534B2
Prep Batch: 62637
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SPEX

Analyte	LLICV/ LLCCV Amt	LLICV [leach] V-260724-	Rec	LLCCV [leach] V-260724-21	Rec	LLCCV [leach] V-260724-33	Rec		Rec		Rec		Rec		Rec		Rec
Arsenic	0.1/0.1	0.0999541	100	0.0925292	93	0.0894353	89										
Barium	0.25/0.25	0.256158	102	0.247389	99	0.237564	95										
Cadmium	0.05/0.05	0.0494421	99	0.0469915	94	0.0455704	91										
Chromium	0.1/0.1	0.101862	102	0.0981932	98	0.0940162	94										
Copper	0.1/0.1	0.102742	103	0.0993845	99	0.0961046	96										
Lead	0.05/0.05	0.0507517	102	0.0478495	96	0.0467657	94										
Nickel	0.1/0.1	0.101109	101	0.0952249	95	0.0921058	92										
Selenium	0.1/0.1	0.105464	105	0.0977493	98	0.0927124	93										
Silver	0.05/0.05	0.0477626	96	0.0457925	92	0.0435333	87										
Zinc	0.1/0.1	0.0998904	100	0.0931742	93	0.0904395	90										

Notes: a-indicates analyte failed the LLICV limits for 6010B, 6010C, 6020, 6020A
c-indicates analyte failed the LLCCV limits for 6010B, 6010C, 6020, 6020A

Qc Limits: LLCCV- 6010B/6010C/6020/6020A (70-130)
LLICV -6010B/6010C/6020/6020A :70-130

FORM 2
(ICV/CCV Summary)

Date Analyzed: 10/04/17
Data File: H21534T
Prep Batch: 62637
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: HGCV2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV (2)-9	Rec	CCV-21	Rec	CCV-33	Rec	CCV-39	Rec		Rec		Rec		Rec		Rec
Mercury	20/10	20.82000	104	10.63000	106	10.52000	105	10.77000	108								

Notes:
a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits:
ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/04/17
Data File: T21534B2
Prep Batch: 62637
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-261851-9	CCB-22	CCB-34	MB 62637 (1)-12	EF-V-264501-29			
Arsenic	.1 U	.1 U	.1 U	.1 U	.1 U			
Barium	.25 U	.25 U	.25 U	.25 U	.25 U			
Cadmium	.05 U	.05 U	.05 U	.05 U	.05 U			
Chromium	.1 U	.1 U	.1 U	.1 U	.1 U			
Copper	.1 U	.1 U	.1 U	.1 U	.1 U			
Lead	.05 U	.05 U	.05 U	.05 U	.05 U			
Nickel	.1 U	.1 U	.1 U	.1 U	.1 U			
Selenium	.1 U	.1 U	.1 U	.1 U	.1 U			
Silver	.05 U	.05 U	.05 U	.05 U	.05 U			
Zinc	.1 U	.1 U	.1 U	.1 U	.1 U			

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/04/17
Data File: H21534T
Prep Batch: 62637
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: HGCV2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB-10	CCB-22	CCB-34	CCB-40	MB 62637 (1)-11	EF-V-264501-38		
Mercury	.5 U	.5 U	.5 U	.5 U	.5 U	.5 U		

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 10/04/17
Data File: T21534B2
Prep Batch: 62637
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-263927-10	Rec	ICSAB V-263293-11	Rec	ICSA V-263927-30	Rec	ICSAB V-263293-31	Rec	Rec	Rec	Rec	Rec
Aluminum	500	488.287	98	477.98700	96	453.923	91	454.87800	91				
Arsenic	1	U		0.99364	99	U		0.90384	90				
Barium	.5	U		0.48740	97	U		0.45956	92				
Cadmium	1	U		0.98984	99	U		0.92063	92				
Calcium	500	479.84	96	471.67200	94	445.965	89	447.04900	89				
Chromium	.5	U		0.49206	98	U		0.46510	93				
Copper	.5	U		0.52829	106	U		0.50311	101				
Iron	200	188.526	94	186.41400	93	175.423	88	176.67600	88				
Lead	1	U		0.97954	98	U		0.89776	90				
Magnesium	500	496.633	99	489.52500	98	460.185	92	462.95400	93				
Nickel	1	U		0.94651	95	U		0.88193	88				
Selenium	1	U		1.01228	101	U		0.92865	93				
Silver	1	U		1.06038	106	U		1.00253	100				
Zinc	1	U		0.96940	97	U		0.89296	89				

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 62637

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: TCLP SampleID: LCSW MR 62637

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	62637	1	T21534B2	14	0.4957	0.5	99		80	120
Barium	62637	1	T21534B2	14	0.4975	0.5	99		80	120
Cadmium	62637	1	T21534B2	14	0.4920	0.5	98		80	120
Chromium	62637	1	T21534B2	14	0.4954	0.5	99		80	120
Lead	62637	1	T21534B2	14	0.5097	0.5	102		80	120
Mercury	62637	1	H21534T	13	10.6200	10	106		80	120
Selenium	62637	1	T21534B2	14	0.4984	0.5	100		80	120
Silver	62637	1	T21534B2	14	0.0952	0.100	95		80	120

TxtQcType: LCS Matrix: TCLP SampleID: LCSW 62637

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	62637	1	T21534B2	13	0.5033	0.5	101		80	120
Barium	62637	1	T21534B2	13	0.4999	0.5	100		80	120
Cadmium	62637	1	T21534B2	13	0.4973	0.5	99		80	120
Chromium	62637	1	T21534B2	13	0.5003	0.5	100		80	120
Lead	62637	1	T21534B2	13	0.5124	0.5	102		80	120
Mercury	62637	1	H21534T	12	10.7200	10	107		80	120
Selenium	62637	1	T21534B2	13	0.5056	0.5	101		80	120
Silver	62637	1	T21534B2	13	0.0966	0.100	97		80	120

TxtQcType: MS Matrix: TCLP SampleID: AD00292-002

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	62637	1	T21534B2	17	T21534B2	15	0.5038	0.1U	0.5	101		50	
Barium	62637	1	T21534B2	17	T21534B2	15	0.9722	0.4843	0.5	98		50	
Cadmium	62637	1	T21534B2	17	T21534B2	15	0.4884	0.05U	0.5	98		50	
Chromium	62637	1	T21534B2	17	T21534B2	15	0.4742	0.1U	0.5	95		50	
Lead	62637	1	T21534B2	17	T21534B2	15	0.4803	0.05U	0.5	96		50	
Mercury	62637	1	H21534T	16	H21534T	14	10.3500	0.50U	10	104		50	
Selenium	62637	1	T21534B2	17	T21534B2	15	0.5142	0.1U	0.5	103		50	
Silver	62637	1	T21534B2	17	T21534B2	15	0.0975	0.05U	0.10	97		50	

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 62637

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: TCLP SampleID: AD00292-002

Analyte	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	1	T21534B2	18	T21534B2	15	0.4871	0.1U	0.5	97		80	120
Barium	1	T21534B2	18	T21534B2	15	0.9162	0.4843	0.5	86		80	120
Cadmium	1	T21534B2	18	T21534B2	15	0.4748	0.05U	0.5	95		80	120
Chromium	1	T21534B2	18	T21534B2	15	0.4584	0.1U	0.5	92		80	120
Lead	1	T21534B2	18	T21534B2	15	0.4697	0.05U	0.5	94		80	120
Selenium	1	T21534B2	18	T21534B2	15	0.4984	0.1U	0.5	100		80	120
Silver	1	T21534B2	18	T21534B2	15	0.0821	0.05U	0.1	82		80	120

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 62637

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: TCLP SampleID: LCSW MR 62637

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	62637	T21534B2	14	T21534B2	13	0.4957	0.5033	1.5	20
Barium	62637	T21534B2	14	T21534B2	13	0.4975	0.4999	.5	20
Cadmium	62637	T21534B2	14	T21534B2	13	0.4920	0.4973	1.1	20
Chromium	62637	T21534B2	14	T21534B2	13	0.4954	0.5003	.99	20
Lead	62637	T21534B2	14	T21534B2	13	0.5097	0.5124	.53	20
Mercury	62637	H21534T	13	H21534T	12	10.6200	10.7200	.94	20
Selenium	62637	T21534B2	14	T21534B2	13	0.4984	0.5056	1.4	20
Silver	62637	T21534B2	14	T21534B2	13	0.0952	0.0966	1.5	20

TxtQcType: MR Matrix: TCLP SampleID: AD00292-002

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	62637	T21534B2	16	T21534B2	15	0.1U	0.1U	---	20
Barium	62637	T21534B2	16	T21534B2	15	0.4734	0.4843	2.3	20
Cadmium	62637	T21534B2	16	T21534B2	15	0.05U	0.05U	---	20
Chromium	62637	T21534B2	16	T21534B2	15	0.1U	0.1U	---	20
Lead	62637	T21534B2	16	T21534B2	15	0.05U	0.05U	---	20
Mercury	62637	H21534T	15	H21534T	14	0.50U	0.50U	---	20
Selenium	62637	T21534B2	16	T21534B2	15	0.1U	0.1U	---	20
Silver	62637	T21534B2	16	T21534B2	15	0.05U	0.05U	---	20

TxtQcType: SD Matrix: TCLP SampleID: AD00292-002

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff	Limit
Arsenic	62637	T21534B2	19	T21534B2	15	5	-0.0014	0.0002	---	10
Barium	62637	T21534B2	19	T21534B2	15	5	0.0898	0.4843	7.3	10
Cadmium	62637	T21534B2	19	T21534B2	15	5	-0.0006	0.0011	---	10
Chromium	62637	T21534B2	19	T21534B2	15	5	-0.0004	0.0037	---	10
Lead	62637	T21534B2	19	T21534B2	15	5	-0.0018	0.0150	---	10
Selenium	62637	T21534B2	19	T21534B2	15	5	-0.0081	-0.0063	---	10
Silver	62637	T21534B2	19	T21534B2	15	5	-0.0003	0.0002	---	10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: (3010A) 3005A 3050B 200.7/200.8 OTHER_____

Batch No.: 21534 Analyst: lm

QC Number: 62637 Prep Date: 10/4/17

Matrix: TCLP Reviewed By: ok.

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50ml	50ml				--	Balance used: N/A
LCS						--	Pipettes used: 149, 1660
LCSD						--	
1. ~~LD~~ 00292-002					V264501	00292-002	Hot Block used: 1
MR 00292-002							
MS 00292-002							
~~MSD~~							
2. 00291-001	50ml	50ml			V264501	00292-002	
3. 00291-002							
4. 00292-004							
5. -006							
6. -008							
7. -010							
8. -012							
9. 00296-012							
10. 00298-002							
11. 00319-002							
12. 00328-001							
13. 00316-026							
14. -027							
15. -028							
16. 00350-003							
17. 00350-005							
18. 00366-001					filtered		
19. V-264501					V264501		
20.							

Hot Plate Temperature: 93.0 C (90-95° C) Start Time: 9:00 End Time: 12:20

	Volume mL	Lot #
LCS, LCSD	0.25ml	V-11062, 11063
LLLCS, LLLCSD		V-
MS, MSD	0.25ml	V-11062, 11063
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	3ml	V-11137
HCl		V-
H_2O_2		V-

Acid	Vol mL	Lot#
1:1 HNO_3		V-
1:1 HCl	5ml	V-262677

Relinquished By lm Date 10/4/17

Received By ok. Date 10/04/2017

T:\QC\FORMS\LOGBOOK FORMS\METALS\ICP sample prep log 2016 DOD.DOC

HG SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 245.1 (7470A) 7471B OTHER_____

Batch No.:* 21534

QC Number: 62637

Matrix: TCLP

Analyst: [illegible]

Prep Date: 10/4/19

Review By: [illegible]

LAB ID#	MERCURY INITIAL	MERCURY FINAL	COMMENTS	STANDARDS
Method blank	25ML	25ML		CAL CURVE BLK 0ppb V-264643
LCS				
LCSD				STD 0.2 ppb V-264644
1 ~~LCS~~ 00292-002				STD 0.5 ppb V-264645
MR 00292-002				STD 1.0 ppb V-264646
MS 00292-002				STD 2.0 ppb V-264647
~~MSD~~				STD 5.0 ppb V-264648
2 00291-001				STD 10.0 ppb V-264649
3 -002				STD 25.0 ppb V-264650
4 -004				ICV 10.0 ppb V-264641
5 -006				CCV 20.0 ppb V-264642
6 -008				
7 -010				
8 -012				Balance used: N/A
9 00296-012				Pipettes used: 132, 135, 150, 121
10 00298-002				
11 00319-002				Hot Block used: 7
12 00328-001				
13 00316-026				
14 -027				
15 -028				
16 00350-003				
17 -005				
18 00366-001				
19 V-264501				
20				

Lot Numbers	Acid	Volume (mL)		Lot #
$KMnO_4$: V-264407	HNO_3	0.625ML		V- 11137
$K_2S_2O_8$: V-264408	HCl			V-
NH_2OH: V-264409	H_2SO_4	1.25ML		V- 11059
	Aqua Regia			V-

**Block Temp.: °C	92.3
Time In Block:	10:00
Time Out of Block:	12:00

Spike Volume & Lot #

☐ LCS V-264601 0.15g / 0.25 ml

☐ MS V-264601 0.250 ml

☐ Standards/Control Batch B-23789

Start time: 9:00 End Time: 12:00

**Temperature
245.1 / 7470A: 90-95C
7471B : 92-98C

Relinquished By: [illegible]

*25 mLs of each standard was digested with this batch using the same reagents and at the same time as the above samples. The preparation of each standard may be referenced in Veriprog using the standard batch number and the corresponding V #s.

HG PREP 2016

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP2A\T21534B2.txt

Analysis Date: 10/04/17 **Instrument:** PEICP2A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-261851	1	CAL	14:41	1							V-261851(ICB/CCB)
CALST1 V-263294	1	CAL	14:44	2							V-263294(ICS1 Lowest std)
CALST2 V-263538	1	CAL	14:47	3							V-263538(ICS2- Low Std)
CALST3 V-263925	1	CAL	14:50	4							V-263925(ICS3 - Middle Std)
CALST4 V-263540	1	CAL	14:55	5							V-263540(ICS4 High std)
ICS3 V-263925	1	ICS	15:00	6							V-263925(ICS3 - Middle Std)
ICV V-263834	1	ICV	15:05	7							V-263834(CCV)
LLICV [leach] V-260724	1	LLICV	15:10	8		TCLP	TCLP	SW846	62637		V-260724(LLICV/CCV leachate)
ICB V-261851	1	ICB	15:13	9							V-261851(ICB/CCB)
ICSA V-263927	1	ICSA	15:16	10							V-263927(ICSA)
ICSAB V-263293	1	ICSAB	15:22	11							V-263293(ICSAB)
MB 62637 (1)	1	MB	15:27	12		TCLP	TCLP	SW846	62637		0
LCSW 62637	1	LCS	15:31	13		TCLP	TCLP	SW846	62637		0
LCSW MR 62637	1	LCS	15:35	14		TCLP	TCLP	SW846	62637		0
AD00292-002	1	SMP	15:40	15	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-002	1	MR	15:44	16		TCLP	TCLP	SW846	62637		0
AD00292-002	1	MS	15:48	17		TCLP	TCLP	SW846	62637		0
AD00292-002	1	PS	15:53	18		TCLP	TCLP	SW846	62637		0
AD00292-002	5	SD	15:58	19		TCLP	TCLP	SW846	62637		0
CCV V-263834	1	CCV	16:02	20							V-263834(CCV)
LLCCV [leach] V-260724	1	LLCCV	16:07	21		TCLP	TCLP	SW846	62637		V-260724(LLICV/CCV leachate)
CCB	1	CCB	16:10	22							0
AD00291-001	1	SMP	16:13	23	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00328-001	1	SMP	16:17	24	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00316-026	1	SMP	16:21	25	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00316-027	1	SMP	16:25	26	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00316-028	1	SMP	16:29	27	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00298-002	1	SMP	16:32	28	METALS-TCLP	TCLP	TCLP	SW846	62637		0
EF-V-264501	1	EF	16:36	29		TCLP	TCLP	SW846	62637		V-264501(EF-1 WARNING)
ICSA V-263927	1	ICSA	16:40	30							V-263927(ICSA)
ICSAB V-263293	1	ICSAB	16:45	31							V-263293(ICSAB)
CCV V-263834	1	CCV	16:51	32							V-263834(CCV)
LLCCV [leach] V-260724	1	LLCCV	16:56	33		TCLP	TCLP	SW846	62637		V-260724(LLICV/CCV leachate)
CCB	1	CCB	16:59	34							0
AD00291-002	1	NA	17:02	35	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-004	1	NA	17:06	36	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-006	1	NA	17:10	37	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-008	1	NA	17:13	38	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-010	1	NA	17:17	39	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-012	1	NA	17:20	40	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00296-012	1	NA	17:24	41	METALS-TCLP	TCLP	TCLP	SW846	62637		0
ICSA V-263927	1	ICSA	17:27	42						failed	V-263927(ICSA)

Comments/Reviewedby:

OLUFEMI
192 168 1 89 10/4/2017 5:08:29 PM

RUN IS OK
All elements reported

10/10/17

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\HGCV2A\H21534T.txt

Analysis Date: 10/04/17

Instrument: HGCV2A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
Calibration Blank	1	CAL	17:32	1							0
.2 PPB	1	CAL	17:33	2							0
.5 PPB	1	CAL	17:35	3							0
1 PPB	1	CAL	17:37	4							0
2 PPB	1	CAL	17:39	5							0
5 PPB	1	CAL	17:41	6							0
10 PPB	1	CAL	17:43	7							0
25 PPB	1	CAL	17:45	8							0
ICV (2)	1	ICV	17:48	9							0
ICB	1	ICB	17:50	10							0
MB 62637 (1)	1	MB	17:51	11	HG-TCLP	TCLP	TCLP	SW846	62637		0
LCSW 62637	1	LCS	17:53	12	HG-TCLP	TCLP	TCLP	SW846	62637		0
LCSW MR 62637	1	LCS	17:56	13	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-002	1	SMP	17:58	14	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-002	1	MR	18:00	15	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-002	1	MS	18:02	16	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00298-002	1	SMP	18:04	17	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00328-001	1	SMP	18:06	18	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00316-026	1	SMP	18:08	19	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00316-027	1	SMP	18:09	20	HG-TCLP	TCLP	TCLP	SW846	62637		0
CCV	1	CCV	18:11	21							0
CCB	1	CCB	18:13	22							0
AD00316-028	1	SMP	18:15	23	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00291-001	1	SMP	18:17	24	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00291-002	1	SMP	18:19	25	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-004	1	SMP	18:21	26	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-006	1	SMP	18:23	27	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-008	1	SMP	18:25	28	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-010	1	SMP	18:27	29	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-012	1	SMP	18:29	30	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00296-012	1	SMP	18:30	31	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00319-002	1	SMP	18:32	32	HG-TCLP	TCLP	TCLP	SW846	62637		0
CCV	1	CCV	18:34	33							0
CCB	1	CCB	18:36	34							0
AD00350-003	1	SMP	18:38	35	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00350-005	1	SMP	18:40	36	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00366-001	1	SMP	18:42	37	HG-TCLP	TCLP	TCLP	SW846	62637		0
EF-V-264501	1	EF	18:44	38		TCLP	TCLP	SW846	62637		V-264501(EF-1 WARNING)
CCV	1	CCV	18:46	39							0
CCB	1	CCB	18:48	40							0

Comments/Reviewedby:

olufemi
192.168.1.25 10/4/2017 7:23:35 PM

RUN IS OK

10/9/17

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

V-264640

Wet Chemistry Data

VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD00298-002
Matrix Soil
Client SampleID: 475 EXTERIOR NYRECY

Project Number: 7092827
Received Date: 9/28/2017
Collect Date: 9/28/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Cyanide (Reactive)	CN-REACTIVE	1	ND	mg/Kg	0.50	10/03/17	10/03/17
Sulfide (Reactive)	S-REACTIVE	1	ND	mg/kg	100	10/03/17	10/03/17

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 7092827**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD00298-001	475 EXTERIOR N	Soil/Terracore	1	91	Percent			09/29/17	09/28/17	09/28/17
AD00298-002	475 EXTERIOR N	Aqueous	1	92	Percent			09/29/17	09/28/17	09/28/17

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-7155

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD00299-004	69	68.57888	Percent	1.36	9.03	6.62	09/29/17	jessica	4.2	5
Sample	AD00268-002	98	97.72296	Percent	1.35	11.89	11.65	09/29/17	jessica		
Sample	AD00292-012	86	86.01472	Percent	1.38	10.89	9.56	09/29/17	jessica		
Sample	AD00298-001	91	91.08159	Percent	1.35	11.89	10.95	09/29/17	jessica		
Sample	AD00299-004	72	71.52062	Percent	1.36	9.12	6.91	09/29/17	jessica		
Sample	AD00299-005	78	77.99443	Percent	1.36	8.54	6.96	09/29/17	jessica		
Sample	AD00299-006	64	64.31479	Percent	1.38	8.75	6.12	09/29/17	jessica		
Sample	AD00299-007	64	64.40972	Percent	1.35	7.11	5.06	09/29/17	jessica		
Sample	AD00298-002	92	92.02966	Percent	1.37	12.16	11.29	09/29/17	jessica		
Sample	AD00306-001	82	81.64094	Percent	1.35	13.66	11.40	09/29/17	jessica		
Sample	AD00306-002	87	87.10504	Percent	1.35	13.06	11.54	09/29/17	jessica		
Sample	AD00306-003	84	84.47099	Percent	1.35	13.07	11.25	09/29/17	jessica		
Sample	AD00306-004	84	84.25414	Percent	1.35	12.21	10.50	09/29/17	jessica		
Sample	AD00306-005	86	85.52515	Percent	1.35	12.68	11.04	09/29/17	jessica		
Sample	AD00306-006	80	80.04315	Percent	1.36	10.63	8.78	09/29/17	jessica		
Sample	AD00306-007	83	83.03477	Percent	1.34	10.83	9.22	09/29/17	jessica		
Sample	AD00306-008	84	83.71336	Percent	1.35	10.56	9.06	09/29/17	jessica		
Sample	AD00306-009	84	84.05694	Percent	1.36	15.41	13.17	09/29/17	jessica		
Sample	AD00306-010	83	83.14176	Percent	1.35	14.40	12.20	09/29/17	jessica		
Sample	AD00297-002	88	88.24663	Percent	1.36	11.74	10.52	09/29/17	jessica		

* - Indicates Failed Rpd Criteria

MS/MSD/DUP Recovery

7092827 0255

Prep Batch: S-1091 Sample ID: AD00291-001
Method: SW846 7.3.3 Matrix: Soil

Qc Type: MS		Limits			MS	Sample			MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov		Dil	Conc	Conc	% Rec	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Cyanide (Reactive)	0.4	75-125		1	0.4153	0	104		20171003135	13	10/03/17 14:21	20171003135	15	10/03/17 14:25

Qc Type: MSD		Limits			MSD	Sample			MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Rpd	Dil	Conc	Conc	% Rec	Rpd	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Cyanide (Reactive)	0.4	75-125	20	1	0.3907	0	98	6.1		20171003135	14	10/03/17 14:23	20171003135	15	10/03/17 14:25

LCS Recoveries

BatchRunID/RunID:====>				201710031353-12								
QcBatchID:====>				LCSS-1091								
Date/Time:====>				10/03/17 14:18								
Analytical Method:====>				SW846 7.3.3								
Matrix:====>				Soil		Soil		Soil		Soil		Soil
Analyte	SW846 7.3. Amt	Limits	Amt	Limits	% Rec	Flags	% Rec	Flags	% Rec	Flags	% Rec	Flags	% Rec	Flags
Cyanide (Rea	0.4	75-125			101									

Calibration Summary:

7092827 0257

Instrument: DA1
Analysis Meth: SW846 7.3.3

Analyte	Batch ID	Run#	Qc Type	Recov	Spk Amt	Limit
Cyanide (Reactive)	20171003135	9	ICV	99	0.4	90-110
Cyanide (Reactive)	20171003135	21	CCV	103	0.4	90-110
Cyanide (Reactive)	20171003135	33	CCV	103	0.4	90-110
Cyanide (Reactive)	20171003135	39	CCV	100	0.4	90-110

Blank Summary

Instrument: DA1

Qc Type: Method Blank Summary Prep Date: 10/3/17

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20171003135	10/3/17 14:16	MBS-1091	11	Cyanide (	ND	0.50

Qc Type: ICB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20171003135	10/3/17 14:14	CCB	10	Cyanide (	ND	0.020

Qc Type: CCB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20171003135	10/3/17 14:42	CCB	22	Cyanide (	ND	0.020
20171003135	10/3/17 15:10	CCB	34	Cyanide (	ND	0.020
20171003135	10/3/17 15:20	CCB	40	Cyanide (	ND	0.020

Analysis Type: RS

7092827 0259

Batch Number: RS-1091

Units: mg/kg

Qc Summary Results

Qc Type	Qc Name	SpkAmt	Rec Lim	Rpd Lim	Raw Result	Recov	Rpd	Flags
CAL-01	CAL-01-10/03/17	16	90-110	NA	16.8315	105	NA	
LCS	LCS	400	75-125	NA	410.76875	103	NA	
MS	AD00291-001	400	75-125	NA	430.80625	108	NA	
MSD	AD00291-001	400	75-125	20	440.825	110	2.3	

Calibration Curve Information

Analytical Method(s)

SW846 7.3.4

Sam #	Type	MB	Result	RL	Per Sol	Full Result	Titr Vol	Iod Vol	DF	Sam Wt (g)	Scrb Vol (ml)	Prep Date	Prep By	Anal Date	Anal By
CAL-01-10/03/17	CAL-01		17		100	16.831	5.8	10	1	250	250			10/03/17	JMP
MB-1-10/03/17	MB	MB-1-10/03/17	ND	100	100	10.019	9.9	10	1	10	250	10/03/17	JMP	10/03/17	JMP
LCS	LCS	MB-1-10/03/17	410	100	100	410.77	5.9	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00291-001	MS	MB-1-10/03/17	430	100	73	430.81	5.7	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00291-001	MSD	MB-1-10/03/17	440	100	73	440.82	5.6	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00291-001	Sample	MB-1-10/03/17	ND	100	73	10.019	9.9	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00291-002	Sample	MB-1-10/03/17	ND	100	80	20.038	9.8	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00292-002	Sample	MB-1-10/03/17	ND	100	89	40.075	9.6	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00292-004	Sample	MB-1-10/03/17	ND	100	86	30.056	9.7	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00292-006	Sample	MB-1-10/03/17	ND	100	86	20.038	9.8	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00292-008	Sample	MB-1-10/03/17	ND	100	85	10.019	9.9	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00292-010	Sample	MB-1-10/03/17	ND	100	88	10.019	9.9	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00292-012	Sample	MB-1-10/03/17	ND	100	86	30.056	9.7	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00296-012	Sample	MB-1-10/03/17	ND	100	92	50.094	9.5	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00298-002	Sample	MB-1-10/03/17	ND	100	92	20.038	9.8	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00316-026	Sample	MB-1-10/03/17	ND	100	90	30.056	9.7	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00316-027	Sample	MB-1-10/03/17	ND	100	93	20.038	9.8	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00316-028	Sample	MB-1-10/03/17	ND	100	88	20.038	9.8	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00319-002	Sample	MB-1-10/03/17	ND	100	91	40.075	9.6	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00331-002	Sample	MB-1-10/03/17	ND	100	83	10.019	9.9	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00331-004	Sample	MB-1-10/03/17	ND	100	84	30.056	9.7	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00328-001	Sample	MB-1-10/03/17	ND	100	100	40.075	9.6	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00350-003	Sample	MB-1-10/03/17	ND	100	90	10.019	9.9	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00350-005	Sample	MB-1-10/03/17	ND	100	91	20.038	9.8	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00366-001	Sample	MB-1-10/03/17	ND	100	100	20.038	9.8	10	1	10	250	10/03/17	JMP	10/03/17	JMP

JMP 10/3/17

JW 10/4/17

Flag Codes: Ra - Recovery failed specified criteria (PVS/LCS/MS/MSD/ICV/CAL)
Na - Not Applicable
Rp - RPD failed specified criteria.
Nc - Not Checked ..either one or both values =ND

Miscellaneous Data

Hampton-Clarke

ZERO HEADSPACE EXTRACTION- SAMPLE ENTRY

Sample ID	Vessel #	Initial Pressure	Final Pressure	Ext. Fluid #	Wt./Vol. Of Sample	Start Date	Start Time	Finish Date	Finish Time	Ext. Type *	pH of HCl preserv vial	Analyst(s)	Transfer To**	Transfer To**	Comments
EF-3 10896	#17	10	10	EF-3 10896	500ml	9/28/17	4:15	9/29/17	9:39	SPLP	<2	SP			
AD 00289 -001	#08	↓	↓	↓	25g/500ml	↓	↓	↓	↓	↓	↓	↓			
-002	#15	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
-003	#18	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
-004	#21	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
-005	#20	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
-006	#13	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
-007	#22	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
-008	#23	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
-009	#14	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
EF-1 264202	#34	10	10	EF-1 264202	500ml	9/29/17	4:15	9/30/17	12:15	TCLP	<2	SP			
AD 00297 -001	#28	↓	↓	↓	↓	↓		↓	↓	↓	↓	↓			
AD 00298 -001	#11	↓	↓	↓	↓	↓		↓	↓	↓	↓	↓			

*Ext. Type TCLP=T ASTM=A SPLP=S MEP = M
** Initials of person taking custody of extractions

Hampton-Clarke, Inc.

LEACHATE PREPARATION LOG
(TCLP, SPLP)

Start Date: 10/2/17 Time 13:22 Finish Date: 10/3/17

**TCLP Ext. Fluid #1 pH: 4.89 (criteria: 4.93 ± 0.5)
**TCLP Ext. Fluid #2 pH: (criteria: 2.88 ± 0.05)
**SPLP Ext. Fluid #3 pH: 4.20 (criteria: 4.20 ± 0.5)

Sample #	pH (units)	pH in HCL (units)	Final pH (units)	Ext. Fluid (number)	Wt./Vol of Sample (g or mL)	Start Time	Finish Time	Filter Time	Analyst (s)	Ext. Type*	Comments
00162 - 002	—	—	7.26	SPLP 264500	150g/3L	17:00	9:45	10:15	ER	P	Balance ID: 037 Metals & Org.
00162 - 005	—	—	7.81					10:35			pH Meter ID: D38/68
00162 - 003	—	—	7.72		100g/2L			10:45			Metals only
00162 - 004	—	—	7.55					10:15			Organics only.
00162 - 008	—	—	7.31					11:20			Metals only.
00162 - 009	—	—	7.64					10:45			
SPLP 264500	4.20	—	10.12		3L			10:10		T	Metals & Org.
00291 - 001	6.85	1.56	5.04	EFI 264501	150g/3L			2:30			
- 002	7.07	1.58	5.09					3:00			
00292 - 002	9.25	1.82	5.70		100g/2L			12:00			Metals only.
- 004	9.66	1.81	5.75					12:00			
- 006	9.55	1.82	5.43					11:40			
- 008	9.74	1.82	5.22					11:40			
- 010	9.18	1.81	5.19					1:20			
- 012	9.21	1.82	5.61					1:20			
00296 - 012	8.73	1.69	5.11					1:30			
00319 - 002	9.61	1.79	5.59		150g/3L			2:30			Metals & Org.
00328 - 001	10.04	1.86	5.81		100g/2L			11:30			Metals only.
00316 - 026	7.87	1.63	5.03					11:30			
- 027	7.44	1.62	5.01					11:30			
- 028	7.81	1.65	5.02					11:45			
00370 - 003	8.87	1.68	5.17		150g/3L			1:50			Metals & Org.
- 005	8.95	1.69	5.18					1:40			
EFI 264501	4.89	—	5.00		3L			10:10			

* Ext. Type: TCLP = T (Method 1311) LAMP=L (Methods 1311 / ANSI/NEMA C78.LL 1256-2003)
SPLP = P (Method 1312) MEP=M (Method 1320)
ZHE = Z (Method 1311/1312)

** The pH of the extraction fluid must be checked prior to use and must be within limits specified above

7092827 0263

Hampton-Clarke, Inc.

LEACHATE PREPARATION LOG
(TCLP, SPLP)

Start Date: 10/2/17 TIME 13:22 Finish Date: 10/3/17

**TCLP Ext. Fluid #1 pH: 4.89 (criteria: 4.93 ± 0.5)
**TCLP Ext. Fluid #2 pH: _____ (criteria: 2.88 ± 0.05)
**SPLP Ext. Fluid #3 pH: _____ (criteria: 4.20 ± 0.5)

Sample #	pH (units)	pH in HCL (units)	Final pH (units)	Ext. Fluid (number)	Wt./Vol of Sample (g or mL)	Start Time	Finish Time	Filter Time	Analyst (s)	Ext. Type*	Comments
00298-002	8.64	1.59	5.09	Ef1264501	100g/2L	17:00	9:45	10:15	GR	T	Balance ID: 037 Metals only
											pH Meter ID: B38168

* Ext. Type: TCLP = T (Method 1311) LAMP=L (Methods 1311 / ANSI/NEMA C78.LL 1256-2003)
SPLP = P (Method 1312) MEP=M (Method 1320)
ZHE = Z (Method 1311/1312)

** The pH of the extraction fluid must be checked prior to use and must be within limits specified above

Leachate prep log 2017]

Subcontracted Data

This is the last page of the data generated by Hampton-Clarke.
The following pages were submitted to HC by subcontracted laboratories.

eurofins
Lancaster Laboratories
Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Hampton-Clarke Veritech
175 Route 46 West
Fairfield NJ 07004

Report Date: October 23, 2017 14:39

Project: 7092827

Account #: 10819
Group Number: 1857935
SDG: VRU58
PO Number: 7092827
State of Sample Origin: NY

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To Hampton-Clarke Veritech Attn: Reporting

Respectfully Submitted,

Lyssa M. Longenecker

Lyssa M. Longenecker
Specialist

(717) 556-7321

eurofins
Lancaster Laboratories
Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
AD00298-002 Composite Soil	09/28/2017 14:00	9242194

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

eurofins
Lancaster Laboratories
Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description: **AD00298-002 Composite Soil**
475 Exterior NYRecycle Comp

Project Name: **7092827**

Submittal Date/Time: 10/03/2017 09:35
Collection Date/Time: 09/28/2017 14:00
SDG#: VRU58-01

Hampton-Clarke Veritech
ELLE Sample #: SW 9242194
ELLE Group #: 1857935
Matrix: Soil

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Pesticides		**SW-846 8141B**	**ug/kg**	**ug/kg**	
10594	Ethyl Parathion	56-38-2	N.D. D1	25	1
10594	Methyl Parathion	298-00-0	N.D. D1	25	1
Wet Chemistry		**SM 2540 G-1997 %Moisture Calc**	**%**	**%**	
00111	Moisture	n.a.	11.5	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

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Lancaster Laboratories
Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description: AD00298-002 Composite Soil
475 Exterior NYRecycle Comp

Project Name: 7092827

Submittal Date/Time: 10/03/2017 09:35
Collection Date/Time: 09/28/2017 14:00
SDG#: VRU58-01

Hampton-Clarke Veritech
ELLE Sample #: SW 9242194
ELLE Group #: 1857935
Matrix: Soil

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		ng/kg	ng/kg	
12937	2378-TCDD	1746-01-6	0.122 JQ	0.108	1
12937	2378-TCDF	51207-31-9	0.678 JQ	0.108	1
12937	12378-PeCDF	57117-41-6	0.761 J	0.432	1
12937	23478-PeCDF	57117-31-4	1.82 J	0.324	1
12937	123478-HxCDF	70648-26-9	1.13 J	0.324	1
12937	123678-HxCDF	57117-44-9	0.838 JQ	0.324	1
12937	123789-HxCDF	72918-21-9	N.D.	0.540	1
12937	234678-HxCDF	60851-34-5	1.43 J	0.324	1
12937	1234678-HpCDF	67562-39-4	8.63	0.324	1
12937	1234789-HpCDF	55673-89-7	0.833 J	0.432	1
12937	OCDF	39001-02-0	19.3	0.540	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	88	40 - 135
13C12-12378-PeCDD	77	40 - 135
13C12-123478-HxCDD	85	40 - 135
13C12-123678-HxCDD	83	40 - 135
13C12-123789-HxCDD	82	40 - 135
13C12-1234678-HpCDD	61	40 - 135
13C12-OCDD	44	40 - 135
13C12-2378-TCDF	92	40 - 135
13C12-12378-PeCDF	82	40 - 135
13C12-23478-PeCDF	80	40 - 135
13C12-123478-HxCDF	86	40 - 135
13C12-123678-HxCDF	88	40 - 135
13C12-234678-HxCDF	85	40 - 135
13C12-123789-HxCDF	87	40 - 135
13C12-1234678-HpCDF	67	40 - 135
13C12-1234789-HpCDF	58	40 - 135
13C12-OCDF	43	40 - 135

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Reporting Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*
S	*Saturation of detection signal*

EDL = Estimated Detection Limit

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Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description: **AD00298-002 Composite Soil**
475 Exterior NYRecycle Comp

Project Name: **7092827**

Submittal Date/Time: 10/03/2017 09:35
Collection Date/Time: 09/28/2017 14:00
SDG#: VRU58-01

Hampton-Clarke Veritech
ELLE Sample #: SW 9242194
ELLE Group #: 1857935
Matrix: Soil

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10594	OP Pesticides in Soils	SW-846 8141B	1	172770023A	10/09/2017 20:24	Richard A Shober	1
11133	OP Pest Soils Update IV Ext	SW-846 3540C	1	172770023A	10/05/2017 15:15	Kelli M Barto	1
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	17282009	10/21/2017 19:41	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	17282009	10/10/2017 08:25	Alex L Barton	1
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	17277820006B	10/04/2017 09:42	Larry E Bevins	1

EDL = Estimated Detection Limit

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Quality Control Summary

Client Name: Hampton-Clarke Veritech
Reported: 10/23/2017 14:39

Group Number: 1857935

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL
	ug/kg	ug/kg
Batch number: 172770023A	Sample number(s): 9242194	
Ethyl Parathion	N.D.	22
Methyl Parathion	N.D.	22

Analysis Name	Result	EDL
	ng/kg	ng/kg
Batch number: 17282009	Sample number(s): 9242194	
2378-TCDD	N.D.	0.100
2378-TCDF	N.D.	0.100
12378-PeCDF	N.D.	0.400
23478-PeCDF	N.D.	0.300
123478-HxCDF	N.D.	0.300
123678-HxCDF	N.D.	0.300
123789-HxCDF	N.D.	0.500
234678-HxCDF	N.D.	0.300
1234678-HpCDF	N.D.	0.300
1234789-HpCDF	N.D.	0.400
OCDF	N.D.	0.500

LCS/LCSD

Analysis Name	LCS Spike Added ug/kg	LCS Conc ug/kg	LCSD Spike Added ug/kg	LCSD Conc ug/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 172770023A	Sample number(s): 9242194								
Ethyl Parathion	402	464.33			116*		81-115		
Methyl Parathion	400	460.93			115		81-115		
	%	%	%	%					
Batch number: 17277820006B	Sample number(s): 9242194								
Moisture	89.5	89.42			100		99-101		

Analysis Name	OPR Spike Added ng/kg	OPR Conc ng/kg	OPRD Spike Added ng/kg	OPRD Conc ng/kg	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 17282009	Sample number(s): 9242194								
2378-TCDD	20	19.83			99		67-158		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

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Quality Control Summary

Client Name: Hampton-Clarke Veritech
Reported: 10/23/2017 14:39

Group Number: 1857935

OPR/OPRD (continued)

Analysis Name	OPR Spike Added ng/kg	OPR Conc ng/kg	OPRD Spike Added ng/kg	OPRD Conc ng/kg	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
2378-TCDF	20	22.05			110		75-158		
12378-PeCDF	100	107.15			107		80-134		
23478-PeCDF	100	101.92			102		68-160		
123478-HxCDF	100	106.39			106		72-134		
123678-HxCDF	100	104.22			104		84-130		
123789-HxCDF	100	102.83			103		78-130		
234678-HxCDF	100	102.21			102		70-156		
1234678-HpCDF	100	99.64			100		82-122		
1234789-HpCDF	100	103.66			104		78-138		
OCDF	200	215.58			108		63-170		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/kg	MS Spike Added ug/kg	MS Conc ug/kg	MSD Spike Added ug/kg	MSD Conc ug/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 172770023A	Sample number(s): 9242194 UNSPK: P241510									
Ethyl Parathion	N.D.	400	401.58	402	418.76	100	104	81-115	4	35
Methyl Parathion	N.D.	398	387.38	399	403.02	97	101	81-115	4	35

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc %	DUP Conc %	DUP RPD	DUP RPD Max
Batch number: 17277820006B	Sample number(s): 9242194 BKG: P235022			
Moisture	25.29	24.69	2	5

Surrogate Quality Control

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

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Quality Control Summary

Client Name: Hampton-Clarke Veritech
Reported: 10/23/2017 14:39

Group Number: 1857935

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report. For dual column analyses, the surrogate (at least one surrogate for multi-surrogate tests) must be within the acceptance limits on at least one of the two columns.

Analysis Name: OP Pesticides in Soils
Batch number: 172770023A

	2-Nitro-m-xylene-D1	2-Nitro-m-xylene-D2
9242194	92	92
Blank	98	94
LCS	111	106
MS	89	86
MSD	93	90
Limits:	61-142	61-142

Analysis Name: Dioxins/Furans in Solids-8290
Batch number: 17282009

	13C12-2378-TCDD	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD
9242194	88	77	85	83	82	61
Blank	54	56	68	71	68	75
OPR	50	57	63	65	62	67
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF
9242194	44	92	82	80	86	88
Blank	83	57	65	61	61	72
OPR	71	50	60	52	53	69
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

	13C12-234678-HxCDF	13C12-123789-HxCDF	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF
9242194	85	87	67	58	43
Blank	66	66	96	61	67
OPR	56	48	88	46	49
Limits:	40-135	40-135	40-135	40-135	40-135

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

CHAIN OF CUSTODY RECORD

A# 10819 G#1857935
S# 9242194

Hampton-Clarke, Inc.
175 US Hwy 46 West
Fairfield, New Jersey, 07004
Ph:800-426-9992 Fax:973-439-1458

Report To:
Hampton-Clarke, Inc.:
Attn:Reporting
175 Route 46 West
Fairfield, New Jersey 07004

Invoice To:
Hampton-Clarke, Inc.:
Attn:Accounting
175 Route 46 West
Fairfield, New Jersey 07004

Project #: 7092827

CocID#: 5558

FINAL RESULTS TO: subresults@hcvlab.com
PRELIM/VERBAL RESULTS TO: subresults@hcvlab.com

EDD: NEW JERSEY HAZRESULT OR EQUIS EZEDD REQUIRED FOR ALL DATA SUBMITTALS!

Turn Around Time: ~~1 week~~ 4-days **Preliminary Due Date:** 10/9/2017
Report Type: NYDOH-R (REDUCED) **Hard Copy Due Date:** 10/23/2017

Sample Number:	Client ID	Matrix:	Date Collected:	Time Collected:	Analysis Requested
AD00298-002	475 EXTERIOR NYRECYCLE COMP	Soil	9/28/2017	2:00:00 PM	Organophosphorous Pesticides 8141:(Analysis Method:EPA 8141)
AD00298-002	475 EXTERIOR NYRECYCLE COMP	Soil	9/28/2017	2:00:00 PM	Dioxins/Furans 8290:(Analysis Method:EPA 8290)

Relinquished By:	Accepted By:	Date:	Time:	Comments, Notes, Special Requirements, HAZARDS
[signature]	UPS	10/2/17	1700	EPA 8141 - Methyl / Ethyl Parathion only DTW 10/2/17 EPA 8290 - 2,3,7,8 TCDD & PCDF only Polychlorinated dibenzo-furans
	[signature]	10/3/17	0935	Cooler Temp: 2.2°C

HC Lab Use Only: Subcontracted Lab Id and Contact: Lancaster, Angela Miller, (717) 556-7260, LabID: H, 2425 New Holland Pike, , Lancaster, PA, 17601

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Sample Administration Receipt Documentation Log

Doc Log ID: 196157

Group Number(s): 1857935

Client: HAMPTON-CLARKE, INC. ;

Delivery and Receipt Information

Delivery Method:	UPS	Arrival Timestamp:	10/03/2017 9:35
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	NJ		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Ruth Shank (12390) at 12:13 on 10/03/2017

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	32170023	2.2	IR	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

Conrad Burkholder

From: Stacy Hess
Sent: Tuesday, October 03, 2017 2:43 PM
To: Conrad Burkholder; !us19_dp39_Unassigned
Subject: RE: TAT and Data Package Question

Hi Conrad- Please enter as N-8. We notified the client that we are unable to offer an expedited TAT at this time. I'm not certain about the DP, we will have to confirm with the client. Please enter with an SDG code, and we will update with the DP scans if the client determines one is needed.

Thanks,
Stacy

-----Original Message-----
From: Conrad Burkholder
Sent: Tuesday, October 03, 2017 2:39 PM
To: !us19_dp39_Unassigned
Subject: FW: TAT and Data Package Question

Hello,

Is the TAT correct for this? Also, does this require a data package?

Thanks,
Conrad

-----Original Message-----
From: 42Scanmer@lancasterlabs.com [mailto:42Scanmer@lancasterlabs.com]
Sent: Tuesday, October 03, 2017 2:29 PM
To: Conrad Burkholder
Subject:

This E-mail was sent from "RNP0966B2" (MP 2851/LD528).

Scan Date: 10.03.2017 14:28:54 (-0400)
Queries to: 42Scanmer@lancasterlabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mg**	milligram(s)
C	degrees Celsius	**mL**	milliliter(s)
cfu	colony forming units	**MPN**	Most Probable Number
CP Units	cobalt-chloroplatinate units	**N.D.**	non-detect
F	degrees Fahrenheit	**ng**	nanogram(s)
g	gram(s)	**NTU**	nephelometric turbidity units
IU	International Units	**pg/L**	picogram/liter
kg	kilogram(s)	**RL**	Reporting Limit
L	liter(s)	**TNTC**	Too Numerous To Count
lb.	pound(s)	**µg**	microgram(s)
m3	cubic meter(s)	**µL**	microliter(s)
meq	milliequivalents	**umhos/cm**	micromhos/cm

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

APPENDIX K

Manifests for Imported Fill from New York Recycling

Date	Manifest No.	License Plate No.	Weight (estimated)
11/27/2017	51001	25623MK	18 cubic yards
11/27/2017	51002	25623MK	18 cubic yards
11/27/2017	51003	25623MK	18 cubic yards
11/27/2017	51004	25623MK	18 cubic yards
11/27/2017	51005	69405ME	18 cubic yards
11/27/2017	51006	69405ME	18 cubic yards
11/27/2017	51007	69405ME	18 cubic yards
11/27/2017	51009	69405ME	18 cubic yards
11/27/2017	51010	69405ME	18 cubic yards
11/27/2017	51011	69405ME	18 cubic yards
11/27/2017	51012	69405ME	18 cubic yards
11/27/2017	51013	25623MK	18 cubic yards
11/27/2017	51014	25623MK	18 cubic yards
11/27/2017	51016	25623MK	18 cubic yards
11/30/2017	51015	25623MK	18 cubic yards
11/30/2017	51030	25623MK	18 cubic yards
11/30/2017	51031	25623MK	18 cubic yards
11/30/2017	51032	25623MK	18 cubic yards
11/30/2017	51033	69405ME	18 cubic yards
11/30/2017	51034	69405ME	18 cubic yards
11/30/2017	51035	69405ME	18 cubic yards
11/30/2017	51036	69405ME	18 cubic yards
11/30/2017	51037	69405ME	18 cubic yards
11/30/2017	51038	69405ME	18 cubic yards
11/30/2017	51039	69405ME	18 cubic yards
11/30/2017	51042	69405ME	18 cubic yards
12/04/2017	51017	69405ME	18 cubic yards
12/04/2017	51018	69405ME	18 cubic yards
12/04/2017	51040	69405ME	18 cubic yards
12/04/2017	51046	69405ME	18 cubic yards
12/04/2017	51047	69405ME	18 cubic yards
12/04/2017	51048	69405ME	18 cubic yards
12/04/2017	51049	69405ME	18 cubic yards
12/05/2017	51019	69405ME	18 cubic yards
12/05/2017	51020	69405ME	18 cubic yards
12/05/2017	51021	69405ME	18 cubic yards
12/05/2017	51022	69405ME	18 cubic yards

12/05/2017	51023	69405ME	18 cubic yards
12/05/2017	51045	69405ME	18 cubic yards
12/07/2017	51043	69405ME	18 cubic yards
12/07/2017	51044	69405ME	18 cubic yards
12/07/2017	(unknown)	69405ME	18 cubic yards
12/07/2017	(unknown)	69405ME	18 cubic yards
12/07/2017	(unknown)	69405ME	18 cubic yards
12/07/2017	(unknown)	69405ME	18 cubic yards
12/07/2017	(unknown)	69405ME	18 cubic yards
12/08/2017	134314	69405ME	18 cubic yards
12/08/2017	134317	69405ME	18 cubic yards
12/08/2017	134327	69405ME	18 cubic yards
12/08/2017	134342	69405ME	18 cubic yards
12/08/2017	134348	69405ME	18 cubic yards
12/08/2017	134362	69405ME	18 cubic yards
12/08/2017	134369	69405ME	18 cubic yards
03/06/2018	51050	25263MK	18 cubic yards
03/06/2018	51051	25263MK	18 cubic yards
03/06/2018	51052	25263MK	18 cubic yards
03/06/2018	51053	25263MK	18 cubic yards
03/06/2018	51054	25263MK	18 cubic yards
03/06/2018	51055	25263MK	18 cubic yards
GRAND TOTAL	**59 LOADS**		**1,062 CUBIC YARDS**

№ 51001

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yanic Flores Company: TEV Trucking
Address: 19 Caleb's Path Central Islip NY Phone: (631) 213 1059 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St Bx NY 10451

Date: 11/27/17 Time: 6:10 AM Truck License Plate No.: 25623MK State: NY

Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: _____

Address: _____ Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fontanato Received:

Load Identifier: License No.: 25623 MK Load No.: 1 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Crushed Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51006

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Gomez Company: I.E.N. Trucking

Address: 13 Jeffe[illegible] Bronx Phone: (631) 812-1053 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 11 Oneill Ave Bay Shore

Date: 11/9/1[illegible] Time: 8:52 AM Truck License Plate No.: 6GHOE ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: _____

Address: _____ Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fontanato Received: 0600

Load Identifier: License No.: 69405 ME Load No.: 2 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51002

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yanic Fides Company: JEV Hauling

Address: 117 Caleb's Path Central Islip NY Phone: (631) 813 1059 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St, Bx NY 10451

Date: 11/27/17 Time: 8:40AM Truck License Plate No.: 25623MK State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☐ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: _____

Address: _____ Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received:

Load Identifier: License No.: 25623 MK Load No.: 3 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ Gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☐ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51005

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Cadena Company: I E V Trucking

Address: _____ Phone: (631) [illegible] Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: H Oneill Ave Bay Shore NY

Date: 11/27/17 Time: 6:12 AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: _____

Address: _____ Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 0930

Load Identifier: License No.: 69405 ME Load No.: 4 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51003

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yanic Flores Company: T L V trucking

Address: 97 Caleb's Path Central Islip ny Phone: (631) 231 1059 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St Bx ny 10451

Date: 11-27-17 Time: 10:00 AM Truck License Plate No.: 25623 MK State: ny

Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes ❑ No, If Yes, attach laboratory results
If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling

Address: 475 Exterior St. Bx NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1030

Load Identifier: License No.: 25623 MK Load No.: 5 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51009

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: [illegible] Cedeno Company: [illegible]

Address: [illegible] Phone: [illegible] Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx, NY 10451

Date: November 21, 2017 Time: 10 - 11 am Truck License Plate No.: 69405ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St. Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1040

Load Identifier: License No.: 69405 ME Load No.: 6 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ Gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51004

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____ *Driver's Signature*

PLEASE PRINT CLEARLY

Driver Name: Yanic Flores Company: T & V Hauling

Address: 197 Caleb's Path Central Islip NY Phone: (631) 813 1059 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior ST Bx NY 10451

Date: 11-21-17 Time: 10:57AM Truck License Plate No.: 25623MK State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St. Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1120

Load Identifier: License No.: 25623 MK Load No.: 7 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse-Fine sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51007

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Cabrera Company: I.C.V. Trucks

Address: 11 O'Neill Ave Tarrytown Phone: (631) [illegible] Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx 10451

Date: 11-27-17 Time: 11:17AM Truck License Plate No. 69405ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1140

Load Identifier: License No.: 69405ME Load No.: 8 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse-fine Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51013

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yonic Flores Company: ILV trucking
Address: 4 oneal Ave Bayshore ny Phone: 631 881 1059 Fax: ( )
Truck Loaded: Site Name: New york recycling Address: 475 Exterior ST Bx 10451
Date: 11-27-17 Time: 10 29pM Truck License Plate No. 25623 MK State: NY
Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC
Address: 475 Exterior St. Bronx, NY 10451 Block/Lot: _____
Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:
Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____
Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1250
Load Identifier: License No.: 25623 MK Load No.: 9 Estimated Volume: 18 *Cubic Yards*
Placed in Stockpile Bin No.
Basic Description Of Material: Brown coarse Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No. _____
Results Received By (Name): _____ Date: _____
Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51012

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Jonado Cadenc' Company: I & V Trucking

Address: 11 O'neill Ave Bay Shore Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 1175 Exterior Street, Bronx

Date: 11-27-17 Time: 12:31pM Truck License Plate No.: _____ State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 1175 Exterior Street, Bronx, Ny 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Portunato Received: 1255

Load Identifier: License No.: 69405 ME Load No.: 10 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51014

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Yaine Flores
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yaine Flores Company: I/V Trucking

Address: 4 Great Ave Freyshore, NY Phone: (631) 813 1059 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St Bx 10451

Date: 11.27.17 Time: 1:18 PM Truck License Plate No. 25623 State: NY

Estimated Volume Loaded: 18 Cy *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot:

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1340

Load Identifier: License No.: 25623 MK Load No.: 11 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ❑ Acceptable ❑ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51011

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Cardona Company: I.S.V. Trucking

Address: 11 O'neill Ave Bay Shore Phone: (718) 742-0755 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx, NY 10451

Date: 11-27-17 Time: 1:25pM Truck License Plate No.: 69405ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☐ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1345

Load Identifier: License No.: 69405 ME Load No.: 12 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Course Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☐ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51016

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yunic Flores Company: I EV trucking

Address: 4 Orced Ave Bayshore NY Phone: 631 813 Fax: ( )

Truck Loaded: Site Name: Newyork recycling Address: 475 Exterior St BX 10541

Date: 11.27.17 Time: 2:14pM Truck License Plate No: 25623 MK State: NY

Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fontanto Received: 1440

Load Identifier: License No.: 25623 MK Load No.: 13 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Crushed Stone w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51010

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Jonado Cadena Company: I E V Trucking

Address: Howell Lay Street Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 1175 Exterior St Bronx NY 10451

Date: 11-27-17 Time: 2:16pM Truck License Plate No.: 6XH 65 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 1175 Exterior Street Bronx NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 11/15

Load Identifier: License No.: 69405 NE Load No.: 14 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown color sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

VG #05-452082-1 W-270587

City of New York
Parks & Recreation

№ 51033

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: _____ Company: _____

Address: _____ Phone: ( ) _____ Fax: ( ) _____

Truck Loaded: Site Name: New York [illegible] Address: 475 Exterior St. Bx NY 10451

Date: 11/30/17 Time: 6:00 AM Truck License Plate No.: _____ State: NY

Estimated Volume Loaded: _____ *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: _____

Address: _____ Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 0700

Load Identifier: License No.: 64405 ME Load No.: 15 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown consistent Sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

VG #05-452082-1 W

City of New York
Parks & Recreation

№ 51034

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: [illegible] Company: T E V Trucking

Address: [illegible] Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address:

Date: 11/13/17 Time: 6:01 AM Truck License Plate No.: [illegible] State: NY

Estimated Volume Loaded: Bpd. *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling

Address: 415 Exterior St. Bronx, NY Block/Lot: TM# 13668

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 06:45

Load Identifier: License No.: 69405 NE Load No.: 16 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown fine sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

VG #05-452082-1 W-270587

№ 51015

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yunic Figes Company: T & V Trucking

Address: 1 Circle Ave Bayshore NY Phone: (631) 213 5910 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St Bx

Date: 11.29.17 Time: Truck License Plate No. 295623-MK State: NY

Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☐ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling

Address: 475 Exterior St. Bx NY 10451 Block/Lot: TK # 133563

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 0800

Load Identifier: License No.: 295623 MK Load No.: 17 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown [illegible] Sand w/ crushed gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☐ Acceptable ☐ Unacceptable Action: _____

VG #05-452082-1 W-270587

City of New York
Parks & Recreation

№ 51035

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: _____ Company: _____

Address: _____ Phone: ( ) _____ Fax: ( ) _____

Truck Loaded: Site Name: _____ Address: _____

Date: _____ Time: _____ Truck License Plate No.: _____ State: _____

Estimated Volume Loaded: _____ *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Beyfile
Address: 1115 Sylvester St. Bx, NY. 10454 Block/Lot: Tax #1332(6)

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fordunato Received: 0845

Load Identifier: License No.: 69405 NE Load No.: 18 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown coarse-fine sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

VG #05-452082-1 W-270587

City of New York
Parks & Recreation

№ 51036

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: [illegible] Company: J.F.V. Trucking

Address: [illegible] Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 175 Exterior Street Bronx, NY 10451

Date: 11-30-17 Time: 7:36AM Truck License Plate No.: [illegible] State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 175 Exterior Street Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 0935

Load Identifier: License No.: 64495-ME Load No.: 19 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown coarse-fine sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

VG #05-452082-1 W-270587

City of New York
Parks & Recreation

№ 51037

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Tomasz Cz[illegible] Company: T.E.V. Trucking

Address: [illegible] Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street Bronx, 10451

Date: 11-30-17 Time: 10:57 AM Truck License Plate No.: [illegible] State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: 0

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1045

Load Identifier: License No.: 64105 ME Load No.: 20 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown coarse-fine sand w/ crushed gravel
CRUSHED STONES/SANDY/LOAMY ETC NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

VG #05-452082-1 W-270587

City of New York
Parks & Recreation

№ 51030

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yonic Flores Company: JCV Trucking

Address: 4 Wood St Bayside Phone: (631) 212 5910 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St BX

Date: 11.20.17 Time: 11:00AM Truck License Plate No. 25623 NK State: NY

Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1130

Load Identifier: License No.: 295023 MA Load No.: 21 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown concrete sand w/ crushed gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

VG #05-452082-1 W-270587

City of New York
Parks & Recreation

№ 51038

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: _____ Company: _____

Address: _____ Phone: ( ) _____ Fax: ( ) _____

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St Bronx NY 10451

Date: 11-30-17 Time: 11:13AM Truck License Plate No.: _____ State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 11-15

Load Identifier: License No.: 69105 ME Load No.: 22 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown course-fine Sand w/ crushed stone
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

VG #05-452082-1 W-270587

City of New York
Parks & Recreation

№ 51031

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Jonic Flores Company: ITV Trucking

Address: 4 Great St Paterson Phone: 646 313 5910 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St

Date: 11-20-17 Time: 12:08 PM Truck License Plate No.: 25623 MK State: NY

Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1250

Load Identifier: License No.: 25623 MK Load No.: 23 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown coarse-fine Sand w/ crushed Stone

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

VG #05-452082-1 W-2/0587

City of New York
Parks & Recreation

№ 51039

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: [illegible] Company: [illegible]

Address: [illegible] Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St Bronx

Date: 11-30-17 Time: 12:31PM Truck License Plate No.: [illegible] State: NY

Estimated Volume Loaded: 18 yd *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: 0

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1300

Load Identifier: License No.: 69405 NE Load No.: 24 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown medium-fine Sand w/ crushed stone
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

VG #05-4520R2-1 W-270587

№ 51032

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Jaime Flores Company: TLV Trucking

Address: 40 Neal Ave Bayshore Phone: (631) 816 1859 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St BK

Date: 11-30-17 Time: 1:18 PM Truck License Plate No.: 25623 MK State: NY

Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street, Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1345

Load Identifier: License No.: 25623 MK Load No.: 25 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Loam Sand w/ crushed stone

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

VG #05-452082-1 W-270587

City of New York
Parks & Recreation

№ 51042

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: _____ Company: _____

Address: _____ Phone: ( ) _____ Fax: ( ) _____

Truck Loaded: Site Name: _____ Address: _____

Date: _____ Time: _____ Truck License Plate No.: _____ State: _____

Estimated Volume Loaded: _____ *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: _____

Address: _____ Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1350

Load Identifier: License No.: 69405 ME Load No.: 26 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown course sand w/ crushed stone
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

№ 51020

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivera
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivera Company: TRIPLE G

Address: 300 Hutchinson Pwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: ~~[illegible]~~ NY Recycling Address: 475 Exterior Street

Date: 12/5/17 Time: 8:44AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☑ Yes ☐ No, If Yes, attach laboratory results

If No, has fill from this site previously been accepted at ☐ Yes ☑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10454 Block/Lot: 2134016

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: _____ Received:

Load Identifier: License No.: _____ Load No.: _____ Estimated Volume: _____ *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☐ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: **134016**
Date: **12/05/17**
NYR Ticketer: **RAVEN**

Outbound
8:43 AM

Customer: **749**
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836 Loads: 36
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: #51020

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:
Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

VG #05-452082-1 W-270587

City of New York
Parks & Recreation

№ 51022

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: — Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: JUAN RIVAS
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: JUAN RIVAS Company: Triple G

Address: 300 HUTCHINSON PKWY Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: NEW YORK Recycling Address: 475 Exterior St. Bronx. 10541

Date: 12/5/17 Time: 10:55AM Truck License Plate No.: 694105 MF State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☒ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St. Bronx. NY 10541 Block/Lot: 134047

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: _____ Received:

Load Identifier: License No.: _____ Load No.: _____ Estimated Volume: _____ *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☐ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134047
Date: 12/05/17
NYR Ticketer: RAVEN

Outbound
10:55 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 38
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: #51022

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

City of New York
Parks & Recreation

№ 51023

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Ramos
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Ramos Company: Triple G.

Address: 300 Hutchinson Pkwy Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx 10451

Date: 12/5/17 Time: 9:50 AM Truck License Plate No.: 609405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☑ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx NY 10451 Block/Lot: 2134033

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: _____ Received:

Load Identifier: License No.: _____ Load No.: _____ Estimated Volume: _____ *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☐ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: **134033**
Date: **12/05/17**
NYR Ticketer: **RAVEN**

Outbound

9:50 AM

Customer: **749**
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 37
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: #51023

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

№ 51045

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple 6.

Address: Phone: ( ) Fax: ( )

Truck Loaded: Site Name: Trump links Ferry Point Address: 475 Exterior St. Bronx, 10451

Date: 12/5/17 Time: 7:19AM Truck License Plate No.: 69405 MC State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx NY 10451 Block/Lot: 133998

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Received:

Load Identifier: License No.: Load No.: Estimated Volume: *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ☐ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 133998
Date: 12/05/17
NYR Ticketer: RAVEN

Outbound

7:19 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 35
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: #51045

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

VG #05-452082-1 W-270587

City of New York
Parks & Recreation

№ 51043

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: _____ Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: JUAN RIVAS
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: JUAN RIVAS Company: Triple G.

Address: 300 Hutchinson River prwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St Bx NY 10451

Date: 12/7/17 Time: 6:04 AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 cy *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes ☐ No, If Yes, attach laboratory results
If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: _____

Address: _____ Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman, Maser Consulting Received:

Load Identifier: License No.: 69405 ME (NY) Load No.: 1 Estimated Volume: 25T *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: soil with crushed stones
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Don Bowman Date: 12/7/2017 Sample No.: 1

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: using PID

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

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New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134224
Date: 12/07/17
NYR Ticketer: ROGER

Outbound
6:04 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836 Loads: 41
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: SFTS#51043

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:
Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

Scanned by CamScanner

VG #3-452082-1 W-270587

№ 51044

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G.

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. NY. 1054

Date: 12/7/17 Time: 7:46AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 1054 Block/Lot: 134 239

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman, Maser Consulting Received:

Load Identifier: License No.: 69405ME (NY) Load No.: 2 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: soil with crushed stones

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Don Bowman Date: 12/7/2017 Sample No.: 2

Results Received By (Name): Date:

Sampling Results: ☑ Acceptable ☐ Unacceptable Action: using PID

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

Scanned by CamScanner

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134239
Date: 12/07/17
NYR Ticketer: RAVEN

Outbound

7:46 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 42
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: #51044

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

Scanned by CamScanner

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx NY 10541

Date: 12/7/17 Time: 9:02AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☐ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St. Bronx. NY 10541 Block/Lot: 134249

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman, Maser Consulting Received:

Load Identifier: License No.: 69405ME (NY) Load No.: 3 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: soil with crushed stones

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Don Bowman Date: 12/7/2017 Sample No.: 3

Results Received By (Name): _____ Date: _____

Sampling Results: ☑ Acceptable ☐ Unacceptable Action: using PID

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

Scanned by CamScanner

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134249
Date: 12/07/17
NYR Ticketer: RAVEN

Outbound
9:02 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 43
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: DRIVER DOEST KNOW MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X: Juan Rivas

Driver Signature

Scanned by CamScanner

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: JUAN RIVAS
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: JUAN RIVAS Company: Triple G.

Address: 300 Hutchinson River Pkwy. Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. NY 10541

Date: 12/7/17 Time: 10:11 AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10541 Block/Lot: 0134257

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman, Maser Consulting Received:

Load Identifier: License No.: 69405ME (NY) Load No.: 4 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: soil with crushed stones

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Don Bowman Date: 12/7/2017 Sample No.: 4

Results Received By (Name): _____ Date: _____

Sampling Results: ☑ Acceptable ☐ Unacceptable Action: Using PID

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

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New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134257
Date: 12/07/17
NYR Ticketer: RAVEN

Outbound
10:11 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836 Loads: 44
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: DRIVER DOES'NT KNOW MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

Scanned by CamScanner

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: ____ Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G.

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. NY 10541

Date: 12/7/17 Time: 11:17AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): ____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St. Bronx. NY. 10541 Block/Lot: 134268

Owner of Excavation Site: ____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # ____

Reason for Excavation of Soil at Site ____

Current and Past Usage of Site where Loading Took Place (if known): ____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman, Maser Consulting Received:

Load Identifier: License No.: 69405ME (NY) Load No.: 5 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: soil with crushed stones

CRUSHED STONES/SANDY/LOAMY ETC NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Don Bowman Date: 12/7/2017 Sample No.: 5

Results Received By (Name): ____ Date: ____

Sampling Results: ☑ Acceptable ☐ Unacceptable Action: using PID

WHITE: Exit Gate / PINK: Driver / YELLOW. Site / BLUE: Ind. Monitor / GREEN: Site Entry

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New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134268
Date: 12/07/17
NYR Ticketer: RAVEN

Outbound
11:17 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 45
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: DRIVER DOES'NT KNOW MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X: Juan Ruiz

Driver Signature

Scanned by CamScanner

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G.

Address: 300 Hutchinson River Pkwy Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. NY 10541

Date: 12/7/17 Time: 12:34PM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10541 Block/Lot: 2134 282

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bouman, Maser Consulting Received:

Load Identifier: License No.: 69405 ME (NY) Load No.: 6 Estimated Volume 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: soil with crushed stone

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Don Bouman Date: 12/7/2017 Sample No.: 6

Results Received By (Name): Date:

Sampling Results: ☑ Acceptable ☐ Unacceptable Action: using PID

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

Scanned by CamScanner

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134282
Date: 12/07/17
NYR Ticketer: RAVEN

Outbound
12:34 PM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 46
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: DRIVER DOES'NT KNOW MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

Scanned by CamScanner

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: JUAN RIVAS
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G.

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. 1054

Date: 12/7/17 Time: 1:22pm Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10541 Block/Lot: 134293

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bouman, Maser Consulting Received:

Load Identifier: License No.: 69405ME (NY) Load No.: 7 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: soil with crushed stone

CRUSHED STONES/SANDY/LOAMY ETC NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Don Bouman Date: 12/7/2017 Sample No.: 7

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: using PID

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

Scanned by CamScanner

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134293
Date: 12/07/17
NYR Ticketer: RAVEN

Outbound
1:22 PM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 47
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: DRIVER DOES'NT KNOW MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X: Juan Ramos

Driver Signature

Scanned by CamScanner

TK#: 134317

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. NY 1054

Date: 12/8/17 Time: 6:01 AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10541 Block/Lot: 134317

Owner of Excavation Site:

Operator of Excavation Site: Has Excavation Site been Tested for Contamination: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Dan Bowman Received:

Load Identifier: License No.: 69405 ME Load No.: 1-Total-48 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Sand w/ recycled concrete 1"-1½"

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: 12/8/17 Sample No.:

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

Scanned by CamScanner

TK# 134327

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: _____ Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: JUAN Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: JUAN Rivas Company: Triple G.

Address: 300 Hutchinson River Pkwy Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. 10541

Date: 12/8/17 Time: 7:59AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No. If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10541 Block/Lot: 134327

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman Received:

Load Identifier: License No.: _____ Load No.: Z - Total 49 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: 12/8/17 Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

Scanned by CamScanner

TX# 134342

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: _____ Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G

Address: 300 Hutchinson River Pwy. Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street Bronx. 10451

Date: 12/8/17 Time: 9:11AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No. If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx. NY 10451 Block/Lot: 134342

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

upervisor Name: Don Bowman Received:

oad Identifier: License No.: _____ Load No.: 3-Total 50 Estimated Volume: 18 *Cubic Yards*

laced in Stockpile Bin No.:

asic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

mple Collected By (Name): _____ Date: 12/8/17 Sample No.: _____

sults Received By (Name): _____ Date: _____

mpling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

Scanned by CamScanner

TKT# 134348

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rios
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rios Company: Triple G

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. 10451

Date: 12/8/17 Time: 10:18AM Truck License Plate No.: 69405 MF State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10451 Block/Lot: 134348

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Dan Bowman Received:

Load Identifier: License No.: _____ Load No.: 4-Total-51 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: 12/8/17 Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

Scanned by CamScanner

TK# 134362

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: _ Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: HUAN RIVAS
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: HUAN RIVAS Company: Triple G.

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. 10451

Date: 12/8/17 Time: 11:28AM Truck License Plate No.: 69405 MC State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10451 Block/Lot: 134362

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bouman Received:

Load Identifier: License No.: _____ Load No.: 5-Total-52 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: 12/8/17 Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

Scanned by CamScanner

TK# 134369

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G.

Address: 300 Hutchinson River Pkwy. Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. 10451

Date: 12/8/17 Time: 12:43pm Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results
☐ No. If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10451 Block/Lot: 134369

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bauman Received:

Load Identifier: License No.: Load No.: 6-Tota-53 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: 12/8/17 Sample No.:

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

Scanned by CamScanner

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134079
Date: 12/05/17
NYR Ticketer: RAVEN

Outbound

1:13 PM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Bellport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836 Loads: 40
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: #51019

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:
Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134224
Date: 12/07/17
NYR Ticketer: ROGER

Outbound

6:04 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 41
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: SFTS#51043

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:
Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134239
Date: 12/07/17
NYR Ticketer: RAVEN

Outbound

7:46 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 42
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: #51044

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134327
Date: 12/08/17
NYR Ticketer: RAVEN

Outbound

7:59 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 49
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: NO MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134342
Date: 12/08/17
NYR Ticketer: RAVEN

Outbound

9:11 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 50
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: NO MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134348
Date: 12/08/17
NYR Ticketer: RAVEN

Outbound

10:18 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 51
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: NO MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134362
Date: 12/08/17
NYR Ticketer: RAVEN

Outbound

11:28 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836 Loads: 52
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: NIO MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:
Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134369
Date: 12/08/17
NYR Ticketer: RAVEN

Outbound
12:43 PM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 53
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: NO MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:
Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X: Juan Rivas

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134317
Date: 12/08/17
NYR Ticketer: RAVEN

Outbound

6:01 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 48
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: DRIVER DOES'NT KNOW MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 138821
Date: 03/06/18
NYR Ticketer: RAVEN

Outbound

7:06 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 25623MK
Trucker: IEV
Job No: 1836
Loads: 54
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks:

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X: tito

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 138840
Date: 03/06/18
NYR Ticketer: RAVEN

Outbound

8:21 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Bellport NY, 11713

Truck Plate 25623MK
Trucker: IEV
Job No: 1836 Loads: 55
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks:

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X: tito

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 138859
Date: 03/06/18
NYR Ticketer: RAVEN

Outbound

9:39 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 25623MK
Trucker: IEV
Job No: 1836
Loads: 56
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks:

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

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Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 138881
Date: 03/06/18
NYR Ticketer: RAVEN

Outbound

11:22 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 25623MK
Trucker: IEV
Job No: 1836
Loads: 57
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks:

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

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Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 138901
Date: 03/06/18
NYR Ticketer: RAVEN

Outbound

12:56 PM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 25623MK
Trucker: IEV
Job No: 1836
Loads: 58
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: MANIFEST# 51054

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

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Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 138919
Date: 03/06/18
NYR Ticketer: RAVEN

Outbound

2:03 PM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 25623MK
Trucker: IEV
Job No: 1836
Loads: 59
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: MANI#51055

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X: tito

Driver Signature

№ 51001

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yanic Flores Company: TEV Trucking

Address: 197 Caleb's Path Central Islip NY Phone: (631) 8131059 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St Bx NY 10451

Date: 11/27/17 Time: 6:10 AM Truck License Plate No.: 25623MK State: NY

Estimated Volume Loaded: 18 cy *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: _____

Address: _____ Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received:

Load Identifier: License No.: 25623 MK Load No.: 1 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Crushed Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51002

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yanic Flores Company: IFV trucking

Address: 197 Caleb's Path Central Islip ny Phone: (631) 813 1059 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St, Bx NY 10451

Date: 11/27/17 Time: 8:40AM Truck License Plate No.: 25623MK State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: _____

Address: _____ Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received:

Load Identifier: License No.: 25623 MK Load No.: 3 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51003

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yanic Flores Company: IEV trucking

Address: 197 celebs Path Central Islip ny Phone: (631) 831 1059 Fax: ( )

Truck Loaded: Site Name: Newyorkrecycling Address: 475 Exterior St Bx ny 10451

Date: 11.27.17 Time: 10:06 AM Truck License Plate No.: 25623 MK State: NY

Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling

Address: 475 EXTERIOR ST. BX NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1030

Load Identifier: License No.: 25623 MK Load No.: 5 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown coarse sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51004

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Vanic Flores Company: TEV Trucking

Address: 197 Caleb's Path Central Islip NY Phone: (631) 813 1059 Fax: ( )

Truck Loaded: Site Name: Newyork Recycling Address: 475 Exterior ST Bronx NY 10451

Date: 11-27-17 Time: 10:57AM Truck License Plate No.: 25623MK State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St. Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1120

Load Identifier: License No.: 25623 MK Load No.: 7 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse to fine sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51005

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Cordeoo Company: I. E. V. Trucking

Address: _____ Phone: (631) 813-1059 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 4 Oneill Ave Bay Shore NY

Date: 11/27/17 Time: 6:12AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: _____

Address: _____ Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 0430

Load Identifier: License No.: 64405 ME Load No.: 4 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51006

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Cardenas Company: I.E.V. Trucking

Address: 13 Jefferson Ave. Bentwood Phone: (630) 313-1059 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: H Oneill Ave Bay Shore

Date: 11/27/17 Time: 6:12 8:52 AM Truck License Plate No.: 69H05 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: _____

Address: 18 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 0600

Load Identifier: License No.: 69405 ME Load No.: 2 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Course Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51007

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Caldera Company: I.E.V. Trucking
Address: 11 Oneill Ave Bay Shore Phone: (631) 813 1059 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx 10451
Date: 11-27-17 Time: 11:17AM Truck License Plate No.: 69405ME State: NY
Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC
Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: _____
Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:
Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____
Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1140
Load Identifier: License No.: 69405ME Load No.: 8 Estimated Volume: 18 *Cubic Yards*
Placed in Stockpile Bin No.:
Basic Description Of Material: Brown Coarse-fine Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____
Results Received By (Name): _____ Date: _____
Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51009

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Cordero Company: I.E.V. Trucking

Address: 4 One 11 Ave. Bay Shore Phone: (631) 613 1039 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx, NY 10451

Date: November 27, 2017 Time: 10:11am Truck License Plate No.: 69405ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 EXTERIOR St Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1040

Load Identifier: License No.: 69405 ME Load No.: 6 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51010

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Cadena — Company: I.E.V. Trucking

Address: 40 Neill Bay Shore — Phone: ( ) _____ Fax: ( ) _____

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx, NY 10451

Date: 11-27-17 Time: 2:16pM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1445

Load Identifier: License No.: 69405 ME Load No.: 14 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown coarse Sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51011

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Cadeo Company: I.E.V. Trucking

Address: 11 Oneill Ave Boy Shor Phone: (718) 742-0755 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx, NY 10451

Date: 11-27-17 Time: 1:25pM Truck License Plate No.: 69405ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1345

Load Identifier: License No.: 6AL105 ME Load No.: 12 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51012

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Cadena Company: I.E.V. Trucking

Address: H Oneill Ave Bay Shore Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx

Date: 11-27-17 Time: 12:31pM Truck License Plate No.: _____ State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx, Ny 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1255

Load Identifier: License No.: 69405 ME Load No.: 10 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51013

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Yanic Flores
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yanic Flores Company: IEV Trucking
Address: 4 oneal Ave Bayshore ny Phone: (631)8131059 Fax: ( )
Truck Loaded: Site Name: New York Recycling Address: 475 Exterior ST Bx 10451
Date: 11-27-17 Time: 12:29PM Truck License Plate No.: 25623 MK State: NY
Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): *Pounds*
Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC
Address: 475 Exterior St. Bronx, NY 10451 Block/Lot:
Owner of Excavation Site: Has Excavation Site been Tested for Contamination:
Operator of Excavation Site: ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #
Reason for Excavation of Soil at Site:
Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1250
Load Identifier: License No.: 25623 MK Load No.: 9 Estimated Volume: 18 *Cubic Yards*
Placed in Stockpile Bin No.:
Basic Description Of Material: Brown course Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:
Results Received By (Name): Date:
Sampling Results: ❑ Acceptable ❑ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51014

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Yanic Flores
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yanic Flores Company: IEV trucking

Address: 4 Oneal Ave Bayshore, ny Phone: (631) 813 1059 Fax: ( )

Truck Loaded: Site Name: New york recycling Address: 475 Exterior ST Bx 10451

Date: 11.27.17 Time: 1:18 PM Truck License Plate No. 25623 State: NY

Estimated Volume Loaded: 18 Cy *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot:

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1340

Load Identifier: License No.: 25623 MK Load No.: 11 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Course Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ❑ Acceptable ❑ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51016

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yanic Flores Company: IEV trucking

Address: 4 oneal Ave Bayshore NY Phone: (631)813 Fax: ( )

Truck Loaded: Site Name: Newyork recycling Address: 475 Exterior st BX 10541

Date: 11-27-17 Time: 2:14pM Truck License Plate No. 25623 MK State: NY

Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fontanato Received: 1440

Load Identifier: License No.: 25623 MK Load No.: 13 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Crushed Stone w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51017

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rua
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rua Company: Triple G

Address: 300 Hutchinson Pkwy. Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx 10451

Date: 12/4/17 Time: 12:29 PM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx NY 10451 Block/Lot: 2133939

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: _____ Received:

Load Identifier: License No.: _____ Load No.: _____ Estimated Volume: _____ *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51018

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Ruiz Company: Triple G

Address: 300 Hutchinson Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. 10451

Date: 12/4/07 Time: 1:24PM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx, NY 10451 Block/Lot: 3133953

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: _____ Received:

Load Identifier: License No.: _____ Load No.: _____ Estimated Volume: _____ *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51019

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

TICKET #
134079
12/5/2017

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Ruiz
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Ruiz Company: Triple G.

Address: 300 Hutchinson Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx ~~NY~~ 10541

Date: 12/5/17 Time: 1:13PM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx NY 10541 Block/Lot: 134079

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: _____ Received:

Load Identifier: License No.: _____ Load No.: _____ Estimated Volume: _____ *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☐ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51021

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

TICKET # 134079 12/5/2017

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Ramos
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Ramos Company: Triple G

Address: 300 Hutchinson Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx, 10541

Date: 12/5/17 Time: 12:28pM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☑ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10541 Block/Lot: 934063

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Received:

Load Identifier: License No.: Load No.: Estimated Volume: *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ☐ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51040

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivera
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivera Company: Triple G

Address: 300 Hutchinson prwy. Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx Ny 10451

Date: 12/4/17 Time: 5:56AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes ☐ No, If Yes, attach laboratory results

If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx Ny 10451 Block/Lot: 13389 2

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Received:

Load Identifier: License No.: Load No.: Estimated Volume: *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51043

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TICKET #
134224
12/7/2017

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: JUAN RIVAS
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: JUAN RIVAS Company: Triple G.

Address: 300 Hutchinson River prwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St Bx NY 10451

Date: 12/7/17 Time: 6:04 Am Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 cy *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes ☐ No, If Yes, attach laboratory results
If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name:

Address: Block/Lot:

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman, Maser Consulting Received:

Load Identifier: License No.: 69405 ME (NY) Load No.: 1 Estimated Volume: 25T *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: soil with crushed stones
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Don Bowman Date: 12/7/2017 Sample No.: 1

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: using PID

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51044

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TICKET # 134239
12/7/2017

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G.

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. NY. 10541

Date: 12/7/17 Time: 7:46AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes ☐ No, If Yes, attach laboratory results
If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx NY 10541 Block/Lot: 134239

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman, Maser Consulting Received:

Load Identifier: License No.: 69405ME (NY) Load No.: 2 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: soil with crushed stones
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Don Bowman Date: 12/7/2017 Sample No.: 2

Results Received By (Name): Date:

Sampling Results: ☑ Acceptable ☐ Unacceptable Action: using PID

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51046

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rios
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rios Company: Triple G.

Address: 300 Hutchinson PRWY Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street Bronx 10451

Date: 12/4/17 Time: 7:54AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results
☐ No, If No, has fill from this site previously been accepted at
☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St. Bronx NY 10451 Block/Lot: 0 133898

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: _____ Received:

Load Identifier: License No.: _____ Load No.: _____ Estimated Volume: _____ *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51047

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Ruiz
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Ruiz Company: Triple G.

Address: 300 Hutchinson Pkwy. Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx 10451

Date: 12/4/17 Time: 9:13AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St. Bronx, NY 10451 Block/Lot: 133907

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Received:

Load Identifier: License No.: Load No.: Estimated Volume: *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51048

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G.

Address: 300 Hutchinson pkwy. Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. 10451

Date: 12/4/17 Time: 10:17 AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at
❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx NY 10451 Block/Lot: 133915

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Received:

Load Identifier: License No.: Load No.: Estimated Volume: *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ❑ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51049

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____ *Driver's Signature*

PLEASE PRINT CLEARLY

Driver Name: Juan Ruiz Company: Triple G

Address: 300 Hutchinson Phone: ( ) Fax: ( )

Truck Loaded: Site Name: Trump Links Ferry Point Address: 475 Exterior St. Bronx 10451

Date: 12/4/17 Time: 11:09AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☑ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St. Bronx NY 10451 Block/Lot: 133985

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: _____ Received:

Load Identifier: License No.: _____ Load No.: _____ Estimated Volume: _____ *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

TK#: 134317

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas
Address: 300 Hutchinson River Pkwy Bronx
Company: Triple G
Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. NY 10541
Date: 12/8/17 Time: 6:01 AM Truck License Plate No.: 64405 ME State: NY
Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes ☐ No, If Yes, attach laboratory results
If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC
Address: 475 Exterior Street. Bronx. NY 10541 Block/Lot: 134317
Owner of Excavation Site:
Operator of Excavation Site:
Has Excavation Site been Tested for Contamination: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #
Reason for Excavation of Soil at Site
Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman
Load Identifier: License No.: 64405 ME Load No.: 1-Total-48 Received: Estimated Volume: 18 *Cubic Yards*
Placed in Stockpile Bin No.:
Basic Description Of Material: Brown Sand w/ recycled concrete 1"-1½"
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: 12/8/17 Sample No.:
Results Received By (Name): Date:
Sampling Results: ☒ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

TK# 134327

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: JUAN Rios
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: JUAN Rios Company: Triple G.

Address: 300 Hutchinson River Pkwy Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. 10541

Date: 12/8/17 Time: 7:59AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10541 Block/Lot: 134327

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman Received:

Load Identifier: License No.: _____ Load No.: Z - Total 49 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: 12/8/17 Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

TX# 134342

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G

Address: 300 Hutchinson River Pwy. Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. 10451

Date: 12/8/17 Time: 9:11AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes ☐ No, If Yes, attach laboratory results. If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10451 Block/Lot: 134342

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman Received:

Load Identifier: License No.: Load No.: 3-Total 50 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: 12/8/17 Sample No.:

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

TKH-134348

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. 10451

Date: 12/8/17 Time: 10:18AM Truck License Plate No.: 64405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10451 Block/Lot: 134348

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman Received:

Load Identifier: License No.: Load No.: 4-Total-51 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: 12/8/17 Sample No.:

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

TK# 134362

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: _ Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: JUAN RIVAS

Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: JUAN RIVAS Company: Triple G.

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. 10451

Date: 12/8/17 Time: 11:28AM Truck License Plate No.: 69405 MC State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10451 Block/Lot: 134362

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman Received:

Load Identifier: License No.: _____ Load No.: 5-Total-52 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: 12/8/17 Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

TK# 134369

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G.

Address: 300 Hutchinson River Pkwy. Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. 10451

Date: 12/8/17 Time: 12:43pm Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10451 Block/Lot: 134369

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman Received:

Load Identifier: License No.: Load No.: 6-Tota-53 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: 12/8/17 Sample No.:

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51050

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: X titor
Driver's Signature

PLEASE PRINT CLEARLY

X Driver Name: TOTO X Company: Triple E. consulting INC

X Address: 500 HUTCHINSON PARKWAY Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx 10451

Date: 3/6/18 Time: 7:06AM X Truck License Plate No.: 25623MK State: NJ

Estimated Volume Loaded: 18yds *Cubic Yards* Weight (if known): ~~[illegible]~~ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☑ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St Block/Lot: 3 138, 821

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Received:

Load Identifier: License No.: Load No.: Estimated Volume: *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ☐ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51051

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Tito
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: TiTo Company: Triple G. consulting INC

Address: 500 HUTCHINSON PARKWAY Phone: ( ) Fax: ( )

Truck Loaded: Site Name: [illegible] Address: 475 Exterior St

Date: 3/6/18 Time: 8:21 A.M. Truck License Plate No: 256723 MK State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☑ Yes If Yes, attach laboratory results

NYJR TK# 138340 ☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name:

Address: Block/Lot:

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Received:

Load Identifier: License No.: Load No.: Estimated Volume: *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ☐ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51052

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Tito
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Tito Company: Triple G Concrete Inc.

Address: 100 Hutchinson Parkway Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St.

Date: 3/6/18 Time: 9:39 A.M. Truck License Plate No.: 26623MK State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☑ Yes If Yes, attach laboratory results

NYRTK#138,859

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name:

Address: Block/Lot:

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Received:

Load Identifier: License No.: Load No.: Estimated Volume: *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ☐ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51053

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Tito
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: TITO Company: Triple B Consulting INC

Address: 500 Hutchinson Parkway Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St.

Date: 3/6/18 Time: 11:22AM Truck License Plate No.: 25623MK State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☑ Yes If Yes, attach laboratory results

NYR TX# 138,881 ☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: Block/Lot:

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Received:

Load Identifier: License No.: Load No.: Estimated Volume: *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ☐ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51054

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Tito
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: TITO Company: Triple S.

Address: 500 Hutchinson River Park. Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx 10451

Date: 3/6/18 Time: 12:56PM Truck License Plate No.: 25622 MK State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: TK # 138,901

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: _____ Received:

Load Identifier: License No.: _____ Load No.: _____ Estimated Volume: _____ *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☐ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51055

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: _____ Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Tito
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: TITO Company: Triple G.

Address: 500 HUTCHINSON RIVER PARKWAY Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx 10451

Date: 3/6/18 Time: 2:03pm Truck License Plate No.: 25 1623 MK State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St. Bronx NY, 10451 Block/Lot: 2138919

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: _____ Received:

Load Identifier: License No.: _____ Load No.: _____ Estimated Volume: _____ *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

APPENDIX L

Manifests for Imported Fill from Ranco Sand & Stone

Date	Manifest No.		Weight (rounded off)
09/12/2018	Unknown (Load 1)		40 tons
09/13/2018	Unknown (Load 2)		40 tons
09/13/2018	490896 (Load 3)		39 tons
09/21/2018	488757 (Load 4)		40 tons
09/21/2018	Unknown (Load 5)		39 tons
09/21/2018	489108 (Load 6)		34 tons
09/24/2018	489111 (Load 7)		35 tons
09/24/2018	Unknown (Load 8)		38 tons
09/28/2018	Unknown (Load 9)		40 tons
09/28/2018	Unknown (Load 10)		40 tons
10/02/2018	490895 (Load 11)		41 tons
10/02/2018	490898 (Load 12)		38 tons
10/02/2018	488183 (Load 13)		39 tons
10/02/2018	489115 (Load 14)		35 tons
10/04/2018	48877? (Load 16)		39 tons
10/04/2018	481957 (Load 15)		39 tons
10/04/2018	488174 (Load 17)		41 tons
10/08/2018	488175 (Load 18)		37 tons
10/08/2018	312110 (Load 19)		38 tons
10/08/2018	488790 (Load 20)		39 tons
10/08/2018	Unknown (Load 21)		41 tons
10/08/2018	Unknown (Load 22)		38 tons
10/10/2018	489141 (Load 23)		33 tons
10/10/2018	488761 (Load 24)		38 tons
10/10/2018	491073 (Load 25)		37 tons
10/12/2018	488759 (Load 26)		39 tons
10/12/2018	491071 (Load 27)		38 tons
GRAND TOTAL	**27 LOADS**		**690 CUBIC YARDS (using 1.5 tons per cubic yard)**

LOAD #7

Almar Supplies

248-22 Brookville Blvd
Rosedale, NY 11422

489111

VIA ALMAR

9-24 20 18

M FROM RANCO SAND

10 TRUMP AT FERRY PT PARK

Truck # 88	Ticket #	Driver HENRY E
Concrete Sand		
Fine Sand	458333	35.02 TONS
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

LOAD #7

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 458333
Date 09/24/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISMO CONSTRUCTION
8 CLUSTERPINE STREET

MEDFORD,NY 11763

Order No. 1

Loads 5

Truck ALMA-88 ALMAR TRUCK #88
Material COVER COVER MATERIAL

Gross 105380 lb Scale 1 Out 7:56 am
Tare 35340 lb
Net 70040 lb
35.02 tn

Weigh Master

Driver

TRUMP AT FERRY POINT PARK

Henri E #88

LOAD # 10

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 456327
Date 09/24/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

MEDFORD,NY 11763

Loads: 4

Truck: ALMA-10 ALMAR TRUCK #10
Material: COVER COVER MATERIAL

Gross 113440 lb Scale 1 Out 7:30 am
Tare 37360 lb
Net 76080 lb
38.04 tn

Weigh Master: AC

Driver:

TRUMP AT FERRY POINT PARK

10

LOAD #9 LOAD #10

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 456594
Date 09/28/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

MEDFORD,NY 11763

Loads: 7

Truck: ALMA-49 ALMAR TRUCK #49
Material: COVER COVER MATERIAL

Gross 115480 lb Scale 1 Out 4:54 am
Tare 35400 lb
Net 80080 lb
40.04 tn

Weigh Master: AC

Driver:

TRUMP AT FERRY POINT PARK

Load # 10

Almar Supplies

248-22 Brookville Blvd
Rosedale, NY 11422

490895

VIA _____

M _____ 20 _____

Truck # | Ticket # | Driver

Concrete Sand		
Fine Sand		
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire _____ Hrs. _____

Accepted by _____

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

Load # 11

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 458747
Date 10/02/2018
Phone (631)874-3939
Fax (631)874-3653

BELLISIMO CONSTRUCTION
8 CLUSTER PINE STREET

Order No: 1

MEDFORD,NY 11763

Loads 12

Truck ALMA 3
Material ALMAR TRUCK #3 COVER MATERIAL COVER

Gross 114600 lb
Tare 33160 lb
Net 81440 lb
40.72 tn

Scale 1
Out 5:13 am

Weigh Master AC

Driver

TRUMP AT FERRY POINT PARK

Almar Supplies Load #12

490898

248-22 Brookville Blvd
Rosedale, NY 11422

VIA

M

10-2 20 18

To Trump Parks

Truck #	Ticket #	Driver
49		Ernesto

Concrete Sand	
Fine Sand	
Asphalt Sand	
LI Gravel	
3/4 Crushed Stone	
3/8 Crushed Stone	
Stone	
Topsoil	
Fill	
Regular Blend	
Dot Blend	
Removal	
On Hire	Hrs.
Accepted by	

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE
YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

Load #12

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Load #13

Ticket# 456742
Date 10/02/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

MEDFORD,NY 11763

Order No: 1

Loads: 10

Truck : ALMA-49 ALMAR TRUCK #49
Material: COVER COVER MATERIAL

Gross: 110920 lb Scale 1 Out 4:56 am
Tare: 35400 lb
Net: 75520 lb
37.76 tn

Weigh Master: AC

Driver:

TRUMP AT FERRY POINT PARK

Almar Supplies LOAD #13

488183/4

248-22 Brookville Blvd
Rosedale, NY 11422

VIA Almar

10-02 20 18

M Rami Ranco
to. Bellissimo construction
Ferry Point

Truck # 68	Ticket #	Driver Ronni
Concrete Sand		39.24 ton
Fine Sand		
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

LOAD #13

Rambo Sand & Stone
151 South Street
Mamaroneck, NY 11849

Ticket# 456746
Date 10/02/2018
Phone (631)874-3939
Fax (631)874-3563

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET
MEDFORD, NY 11763

Order No. 1
Loads: 1

Truck: ALMA-68
Material: COVER

ALMAR TRUCK #68
COVER MATERIAL

Gross: 115200 lb Scale 1 Out 5:10 am
Tare: 36720 lb
Net: 78480 lb
39.24 tn

Weigh Master:

Driver: Ronni

TRUMP AT FERRY POINT PARK

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 456748
Date 10/02/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

MEDFORD,NY 11763

Loads: 13

Truck: ALMA-34
Material: COVER ALMAR TRUCK #34 COVER MATERIAL

Gross 100360 lb Scale 1 Out 5:16 am
Tare: 39420 lb
Net 60940 lb
34.97 tn

WeighMaster: AC

Driver:

TRUMP AT PERRY POINT PARK

M & B ENTERPRISES (516) 623-0891

Ref. No: G 949401865

LOAD #14

Almar Supplies

248-22 Brookville Blvd
Rosedale, NY 11422

489115

VIA

M 10-2-18 20 18
Perry Point Trump-Park
Mike Stone

Truck # 34	Ticket #	Driver Francisco
Concrete Sand	MANIFEST # 456748	
Fine Sand		
Asphalt Sand	34.97 TONS	
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

M & B ENTERPRISES (516) 623-0891

Ref. No: G 94930

Almar Supplies

248-22 Brookville Blvd
Rosedale, NY 11422

48877

VIA

M 10-4 20

Br Ranco
to Trump Link
49 Canoly

Truck #	Ticket #	Driver
Concrete Sand		
Fine Sand		
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

Load # 14

Ranco Sand & Stone
151 South Street
Manorville, NY 11949

Ticket # 456891
Date 10/04/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

MEDFORD, NY 11763

Loads: 14

Truck: ALMA-49 ALMAR TRUCK #49
Material: COVER COVER MATERIAL

Gross 113900 lb Scale 1 Out 4:54 am
Tare 35400 lb

Net 78500 lb
39.25 tn

Weigh Master AC

Driver

TRUMP AT FERRY POINT PARK

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

LOAD #15

Ticket# 456992
Date 10/04/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET
MEDFORD,NY 11763

Order No: 1
Loads: 15

Truck: ALMA-34 ALMAR TRUCK #34
Material: COVER COVER MATERIAL

Gross: 116760 lb Scale 1 Out 4:58 am
Tare: 39420 lb
Net 77340 lb
38.67 tn

Weigh Master: AC
Driver:
TRUMP AT FERRY POINT PARK

481957

Almar Supplies

5705 47th Street
Maspeth, New York 11378

VIA _____

_____ 20____

M FERRY POINT GOLF COURSE
TRUMP - WHITE STONE

Truck # 34	Ticket #	Driver GIOVANNI
Concrete Sand		
Fine Sand	RANCO #	
Asphalt Sand		
LI Gravel	TONS	
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

cepted by _____

L PAYMENT MUST BE REMITTED FOR THE ABOVE
E OR TIME WITHOUT QUESTION IF THIS IS SIGNED

Almar Supplies

248-22 Brookville Blvd
Rosedale, NY 11422

488174

VIA Almar

10-04 20 18

M FROM. Ranco
TO. TRUMP At FERRY Point PAR

Truck # 68	Ticket # 456896	Driver Rowi
Concrete Sand		40.73 ton
Fine Sand		
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

Co Ra #17

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 456896
Date 10/04/2018
Phone (631)874-3930
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

MEDFORD,NY 11763

Loads: 16

Truck: ALMA-68 ALMAR TRUCK #68
Material: COVER COVER MATERIAL

Gross 118180 lb Scale 1 Out 5:10 am
Tare 36720 lb
Net 81460 lb
40.73 tn

Weigh Master: AQ

Driver: Rowi

TRUMP AT FERRY POINT PARK

Almar Supplies

248-22 Brookville Blvd
Rosedale, NY 11422

488175

VIA Almar

10-08 20 18

M From Ranco
To: Ferry Point Park

Truck # 68	Ticket # 457043	Driver Ronny
Concrete Sand		37.34 ton
Fine Sand		
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

Cond # 18

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 457043
Date 10/08/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTER PINE STREET
MEDFORD,NY 11763

Order No: 1
Loads: 18

Truck : ALMA-68 ALMAR TRUCK #68
Material: COVER COVER MATERIAL

Gross 111400 lb Scale 1 Out 5:19 am
Tare: 36720 lb
Net 74680 lb
37.34 tn

Weigh Master AC

Driver Ronny

TRUMP AT FERRY POINT PARK

DELUXE FOR BUSINESS 1-800-888-6327 Ref. No: G 3124073

312110

Almar Supplies

5705 47th Street
Maspeth, New York 11378

VIA

10/8 2018

M TRUMP GOLF COURSE
WHITESTON BRIDGE
BRONX

Truck # 34	Ticket #	Driver GIOVANNI
Concrete Sand		
Fine Sand	RANCO	# 457040
Asphalt Sand		
LI Gravel	TONS	37.93
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

Load #19

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 457046
Date 10/08/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET
MEDFORD,NY 11763

Order No: 1
Loads: 19

Truck: ALMA-34 ALMAR TRUCK #34
Material: COVER COVER MATERIAL

Gross: 115280 lb Scale 1 Out 6:30 am
Tare: 39420 lb

Net 75860 lb
37.93 tn

Weigh Master: AB

Driver:

TRUMP AT FERRY POINT PARK

M Almar

M & B ENTERPRISES (516) 623-0891

Ref. No: G 949401865

Almar Supplies

248-22 Brookville Blvd
Rosedale, NY 11422

488790

VIA _____

10-8 20 18

M Arrupo

to Trump Lin

Truck #	Ticket #	Driver
Concrete Sand		
Fine Sand		
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire _____ Hrs. _____

Accepted by _____

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIG

Cond # 80

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 457035
Date 10/08/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

MEDFORD,NY 11763

Loads: 17

Truck : ALMA-49 ALMAR TRUCK #49
Material: COVER COVER MATERIAL

Gross 114040 lb Scale 1 Out 4:55 am
Tare: 35400 lb

Net 78640 lb
39.32 tn

Weigh Master

Driver

TRUMP AT FERRY POINT PARK

LOAD # 21

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 457047
Date 10/08/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

MEDFORD,NY 11763

Loads: 20

Truck: ALMA-3 ALMAR TRUCK #3
Material: COVER COVER MATERIAL

Gross: 114660 lb Scale 1 Out 5:33 am
Tare: 33160 lb
Net: 81500 lb
40.75 tn

Weigh Master: AC

Driver:

TRUMP AT FERRY POINT PARK

LOAD # 22

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 457079
Date 10/08/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

MEDFORD,NY 11763

Loads: 21

Truck: ALMA-37 ALMAR TRUCK #37
Material: COVER COVER MATERIAL

Gross: 114620 lb MAN WT Out 11:48 am
Tare: 38120 lb
Net: 76500 lb
38.25 tn

Weigh Master: AC

Driver:

TRUMP AT FERRY POINT PARK

LOAD #6

Almar Supplies

248-22 Brookville Blvd
Rosedale, NY 11422

489108

VIA AL MAR

1-21 20 18

M FROM RANCO SAND

TRUMP FERRY POINT PARK

Truck # 88	Ticket #	Driver HENRY E
Concrete Sand		
Fine Sand	458251	34.10 TONS
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

LOAD #6

Ranco Sand & Stone
151 South Street
Manorville, NY 11949

Ticket # 458251
Date 09/21/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTER PINE STREET

Order No: 1

MEDFORD, NY 11763

Loads: 3

Truck: ALMA-88 ALMAR TRUCK #88
Material: COVER COVER MATERIAL

Gross 103540 lb MAN WT Out 8:01 am
Tare 35340 lb
Net 68200 lb
34.10 tn

Weigh Master:

Driver: Henry E #88

TRUMP AT FERRY POINT PARK

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 455720
Date 09/12/2018
Phone (631)874-3939
Fax (631)874-3553

TRUMP AT FERRY POINT
700 HUTCHINSON RIVER PKWY

BRONX,NY 10465

Order No: 1

Loads: 64

Truck : ALMA-88 ALMAR TRUCK #88
Material: COVER COVER MATERIAL

Gross 114840 lb Scale 1 Out 7:45 am
Tare 35340 lb
Net 79500 lb
39.75 tn

Weigh Master: AC

Driver:

SOURCE# 10-98F TEST# 03AF109

88

LOAD 1

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 455773
Date 09/13/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

MEDFORD,NY 11763

Order No: 1

Loads: 1

Truck : ALMA-88 ALMAR TRUCK #88
Material: COVER COVER MATERIAL

Gross 114480 lb Scale 1 Out 5:21 am
Tare 35340 lb
Net 79140 lb
39.57 tn

Weigh Master: MC

Driver:

TRUMP AT FERRY POINT PARK

88

LOAD #2

Almar Supplies

248-22 Brookville Blvd
Rosedale, NY 11422

490896

VIA LOAD # 3

9-13 20 18

M R Renco

L Trump-P

Truck #	Ticket #	Driver
49		Donald
Concrete Sand		
Fine Sand	✓	
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

LOAD #3

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket # 455769
Date 09/13/2018
Phone (631)874-3939
Fax (631)874-3563

LOAD # 3

ALMAR SUPPLIES INC
248-22 BROOKVILLE BLVD

Order No: 1

ROSEDALE,NY 11422

Loads: 37.365

Truck: ALMA-49 ALMAR TRUCK #49
Material: SCS STATE CONCRETE SAND

Gross: 113500 lb Scale 1 Out 4:57 am
Tare: 35400 lb
Net: 78100 lb
39.05 tn

Weigh Master AG

Driver

SOURCE# 10-98F TEST# 08AF104

LOAD #5

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 456245
Date 09/21/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No : 1

MEDFORD,NY 11763

Loads : 2

Truck : ALMA-10 ALMAR TRUCK #10
Material: COVER COVER MATERIAL

Gross: 114740 lb Scale 1 Out 5:27 am
Tare: 37360 lb
Net: 77380 lb
38.69 tn

Weigh Master: AC

Driver:

TRUMP AT FERRY POINT PARK

10

load #4

Ranco Sand & Stone
151 South Street
Manorville,NY 11949 #4

Ticket# 456236
Date 09/21/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

MEDFORD,NY 11763

Loads: 1

Truck: ALMA-49 ALMAR TRUCK #49
Material: COVER COVER MATERIAL

Gross: 115640 lb Scale 1 Out 4:55 am
Tare: 35400 lb
Net: 80240 lb
40.12 tn

Weigh Master: AG

Driver:

TRUMP AT FERRY POINT PARK

load #4

Almar Supplies
248-22 Brookville Blvd
Rosedale, NY 11422

488757

VIA

M 20

Truck #	Ticket #	Driver

Concrete Sand		
Fine Sand		
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone	load	#4
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		
On Hire		

Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

LOAD # 23

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 457202
Date 10/10/2018
Phone (631)874-3939
Fax (631)874-3563

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

MEDFORD,NY 11763

Order No: 1

Loads: 24

Truck: ALMA-5 ALMAR TRUCK #5
Material: COVER COVER MATERIAL

Gross: 102120 lb MAN WT Out 5:15 am
Tare: 35200 lb
Net: 66920 lb
33.46 tn

Weigh Master:

Driver:

TRUMP AT FERRY POINT PARK

Max Eder

Almar Supplies LOAD # 23
248-22 Brookville Blvd
Rosedale, NY 11422

M & B ENTERPRISES (516) 623-0991

Ref. No: G 949401865

489141

VIA

M FERRY POINT TRUMP GOLF 10/10 20 18
BRONX WHITESTONE

Truck #	Ticket #	Driver
05		GUSMAN

Concrete Sand		
Fine Sand	DANCO # 457202	
Asphalt Sand		
LI Gravel	33.46	
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		
On Hire		Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

Almar Supplies LOAD #27

248-22 Brookville Blvd
Rosedale, NY 11422

488761

VIA

10-1 20

M

Truck #	Ticket #	Driver
Concrete Sand		
Fine Sand		
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

LOAD #27

Ranco Sand & Stone
151 South Street
Nesconset, NY 11949

Ticket# 457197
Date 10/10/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

MEDFORD, NY 11763

Loads: 23

Truck: ALMA-49 ALMAR TRUCK #49
Material: COVER COVER MATERIAL

Gross 112100 lb MAN WT Out 4:56 am
Tare 35400 lb
Net 76700 lb
38.35 tn

Weigh Master:

Driver:

TRUMP AT FERRY POINT PARK

LOAD #27

Almar Supplies LOAD # 25

248-22 Brookville Blvd
Rosedale, NY 11422

491073

VIA ALMAR

10-10 20 12

M FROM RANCO SAND

TO TRUMP AT FERRY POINT PARK

Truck # 92	Ticket #	Driver HENRY E
Concrete Sand		
Fine Sand	457211	37 TONS
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

LOAD # 25

Ranco Sand & Stone
151 South Street
Manorville, NY 11949

Ticket # 457211
Date 10/10/2019
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTER PINE STREET

Order No: 1

MEDFORD, NY 11763

Loads: 25

Truck: ALMA-92 ALMAR TRUCK #92
Material: COVER COVER MATERIAL

Gross 112420 lb MANVWT Out 7:41 am
Tare 38240 lb
Net 74180 lb
37.09 tn

Weigh Master:

Driver: Henri E #92

TRUMP AT FERRY POINT PARK

Almar Supplies LOAD #26

488759

248-22 Brookville Blvd
Rosedale, NY 11422

VIA _____

_____ 20 ____

M _____

Truck #	Ticket #	Driver
Concrete Sand		
Fine Sand		
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire _____ Hrs.

Accepted by _____

FULL PAYMENT MUST BEMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 457352
Date 10/12/2018
Phone (631)874-3939
Fax (631)874-3563

BELLISMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

Loads: 26

MEDFORD,NY 11763

Truck: ALMA-49 ALMAR TRUCK #49
Material: COVER COVER MATERIAL

Gross 113420 lb MANWT Out 4:[illegible]am
Tare 35400 lb
Net 78020 lb
39.01 tn

Weigh Master: AB

Driver:

TRUMP AT FERRY POINT PARK

Almar Supplies LOAD " of 1

491071

248-22 Brookville Blvd
Rosedale, NY 11422

VIA ALMAR

10-12 20 18

M FROM RANCO SAND

TO TRUMPET FERRY POINT PARK

Truck # 92	Ticket #	Driver HENRYE
Concrete Sand		
Fine Sand	457380	38.44 TONS
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

Ranco Sand & Stone
161 South Street
Manorville,NY 11949

Ticket# 457360
Date 10/12/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
6 CLUSTERPINE STREET

MEDFORD,NY 11763

Order No : 1

Loads: 27

Load # 27

Truck : ALMA-92 ALMAR TRUCK #92
Material: COVER COVER MATERIAL

Gross:	115120	lb	MAN WT	Out	5:45 am
Tare:	38240	lb			
Net:	76880	lb			
	38.44	tn			

Weigh Master: AC

Driver: Henri E #92

TRUMP AT FERRY POINT PARK

APPENDIX M

Minutes of Weekly Construction Progress Meetings

JCS Construction Group, Inc.

Meeting #1

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open
	Description: Review Submittal Log					
3.2	1	Kitchen Equipment	John Gruber **(Trump Ferry Point LLC)**, Ron Rainone **(Hart Howerton)**			Open
	Description: Review changing the design team to Sam Tell. We need to get this approved and in process					
3.3	1	South Ramp	John Gruber **(Trump Ferry Point LLC)**, Ron Rainone **(Hart Howerton)**			Open
	Description: Review location of the south ramp at loading doc. initiate any redesign					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	1	Roof Trusses	Ron Rainone **(Hart Howerton)**			Open
	Description: Review and release truss design					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	1	HVAC Redesign	John Gruber **(Trump Ferry Point LLC)**		High	Open
	Description: Has FP been release for new design? What is the timing on new bid docs?					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	1	Drainage	Ron Rainone **(Hart Howerton)**			Open
	Description:					

JCS | Construction Group, Inc.

Meeting #3

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 08/16/2017 **MEETING TIME:** 10:00 AM - Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:
Weekly Site meetings

ATTACHMENTS:

ATTENDEES:

Name	Company	Phone Number	Email
David Cerron		Tel: (212) 360-3457	david.cerron@parks.nyc.gov
Caitlin Pontrella		Tel: (212) 360-3471	caitlin.pontrella@parks.nyc.gov
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Kevin Dwyer	French & Parrello Associates	Tel: (732) 312-9800	kevin.dwyer@fpaengineers.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Jess Licata	JCS Construction Group, Inc.	Tel: (203) 485-9612	jess@jcsconstructiongroup.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Phiip Gauffreau	Maser Consulting P.A.	Tel:	pgauffreau@maserconsulting.com
Robert Zelley	Maser Consulting P.A.	Tel:	rzelley@maserconsulting.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
2.1	1	Stock Pile	Justin Shaw (JCS Construction Group, Inc.)			Open
	Description: Review current stock piles and confirm approach for securing them.					
2.2	2	Tarping of the Stock Pile	Caitlin Pontrella			Open
	Description: Woodard and Curran has requested we tarp the stock pile. Plans show we need to seed the pile if it will be present for more than 30 days. We do not have tarping it in our contract. Need a direction.					

JCS | Construction Group, Inc.

Meeting #3

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone (Hart Howerton)			Open
	Description: Review Submittal Log					
3.2	1	Kitchen Equipment	John Gruber (Trump Ferry Point LLC), Ron Rainone (Hart Howerton)			Open
	Description: Review changing the design team to Sam Tell. We need to get this approved and in process					
3.3	1	South Ramp	John Gruber (Trump Ferry Point LLC), Ron Rainone (Hart Howerton)			Open
	Description: Review location of the south ramp at loading dock, initiate any redesign					
3.6	1	Bluestone	Ron Rainone (Hart Howerton)			Open
	Description: Currently waiting on approved samples.					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	1	Roof Trusses	Ron Rainone (Hart Howerton)			Open
	Description: Review and release truss design					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	1	HVAC Redesign	John Gruber (Trump Ferry Point LLC)		High	Open
	Description: Has FP been release for new design? What is the timing on new bid docs?					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw (JCS Construction Group, Inc.)			Open
	Description: Review two week look ahead.					

JCS | Construction Group, Inc.

Meeting #3

Civil						
No	**Meeting Origin**	**Title**	**Assignment**	**Due Date**	**Priority**	**Status**
7.1	1	Drainage	Ron Rainone (Hart Howerton)			Open
	Description: We would like to look into bringing all building drainage to the existing system in the parking lot to avoid any disturbance to the Golf Course. We also have issues with the existing structures and their ability to implement the design intent.					

JCS Construction Group, Inc.

Meeting #9

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 09/27/2017 **MEETING TIME:** 10:00 AM - Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:
Weekly Site meetings

ATTACHMENTS:

ATTENDEES:

Name	Company	Phone Number	Email
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Caitlin Pontrella		Tel: (212) 360-3471	caitlin.pontrella@parks.nyc.gov
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Jess Licata	JCS Construction Group, Inc.	Tel: (203) 485-9612	jess@jcsconstructiongroup.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Robert Zelley	Maser Consulting P.A.	Tel:	rzelley@maserconsulting.com
Arthur Fisher	Sam Tell Companies	Tel:	afisher@samtell.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept. CP suggests not to present PDC with piecemeal submissions but three separate packages: roof, exterior elevation, and kitchen. If the potential exterior awning for outside kitchen area is a temporary, seasonal structure, then it becomes a non-issue, does not need to be approved by PDC.					

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

	Description: Has FP been release for new design? What is the timing on new bid docs?					
5.3	6	Vapor Pipe Locations	Ron Rainone **(Hart Howerton)**, Kevin Dwyer **(French & Parrello Associates)**	09/ 11/ 2017		Open
	Description: We need final direction on the elevations of the pipe sleeves and where we can penetrate the walls or haunch of the slab.					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
6.2	6	Delays	Ron Rainone **(Hart Howerton)**	09/ 11/ 2017		Open
	Description: At this time I am putting in writing that there will be a significant change forthcoming to the contractual completion dates and associated documents. The current contract states dates assuming a start date equal to the signing date of the contract. The actual start date was months later. we have also encountered delays relative to site conditions as well as delays in responses for remediation work. I will circulate an official memo for Rons review and approval per Article II of our contract.					
6.3	8	Permits	Ron Rainone **(Hart Howerton)**			Open
	Description: Ownership obtained a revised Earthwork permit reflecting change to Project Super.					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	1	Drainage	Ron Rainone **(Hart Howerton)**			Open
	Description: We would like to look into bringing all building drainage to the existing system in the parking lot to avoid any disturbance to the Golf Course. We also have issues with the existing structures and their ability to implement the design intent.					
7.2	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction.					

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
8.1	9	PCCO #003	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: JCS need PCCO #003 approved and signed for the changes to the SSDS system so it can be ordered and installed in the coming weeks. Any delay to that would potentially cause serious delays related to weather and the liquid boot. These changes are related to the 6/6/17 changes by DEC.					
	Attachments:					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Sep 26, 2017 at 04:10 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
No Spec Section	35	0	Additional Fill Material		Open	JCS Construction Group, Inc.		Justin Shaw	09/26/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/26/2017		10/10/2017	
28 3502 METHANE GAS DETECTION AND ALARM	34	0	Methane Detection Package	Product Information	Open	EAI North		Zarah Thanasides	09/21/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/21/2017		10/05/2017	
No Spec Section	33	0	Couplings		Open	A&M Warshaw Plumbing & Heating		Cristine Bruno		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/21/2017		10/05/2017	
No Spec Section	32	0	Charlotte No-Hub Cast Iron Pipe	Product Information	Open	A&M Warshaw Plumbing & Heating		Cristine Bruno	09/21/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/21/2017		10/05/2017	
No Spec Section	31	0	Soil Analytical Reports	Product Information	Open	Triple G		Eric Garrido	09/15/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/16/2017		09/30/2017	
No Spec Section	30	0	Ejector Pump and Pit		Open	JCS Construction Group, Inc.		Justin Shaw		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/13/2017		09/27/2017	
No Spec Section	28	0	Wood Stain Samples	Sample	Open	JCS Millshop		James Falk		Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	For Record Only Pending	08/30/2017 09/12/2017	09/05/2017	09/13/2017	
06 4100 Architectural Wood Casework	26	1	Exterior Column	Shop Drawing	Open	JCS Millshop		James Falk		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/14/2017		09/28/2017	
31 6216.16 Steel H Piles	22	1	Pile ID Plan	Shop Drawing	Open	Triple G		Eric Garrido	09/06/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/21/2017		10/05/2017	
31 6216.16 Steel H Piles	22	0	Pile ID Plan	Shop Drawing	Open	Triple G		Eric Garrido		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/31/2017		08/14/2017	
06 4100 Architectural Wood Casework	19	0	Millwork Drawings	Shop Drawing	Open	JCS Millshop		James Falk	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	
08 1400 Wood Doors	18	0	Interior Doors	Shop Drawing	Open	Church Door		Chuck Sweetman	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	
No Spec Section	11	1	SSDS Blower Package		Open	EAI North		Zarah Thanasides		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/21/2017		10/05/2017	
03 3000 Cast-In-Place Concrete	7	2	Anchor Bolt Layout and Details	Plans	Open	Schiavo Steel Co. Inc.	05/25/2017	Bart Schiavo		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	08/15/2017		08/29/2017	

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Sep 26, 2017 at 04:07 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
45	Ferry Point Bar Request for Dimension Confirmation	Open	JCS Millshop	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	09/25/2017	Fiona Rooney	09/28/2017		Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)					Falk, James (JCS Millshop)
44	Drain pipe in cover layer	Open	JCS Construction Group, Inc.	Rainone, Ron (Hart Howerton)	09/25/2017	Fiona Rooney	09/28/2017		Rainone, Ron (Hart Howerton)					None
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Hart Howerton)	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JCS Construction Group, Inc.)					Wiles, Craig (JCS Millshop)
27	Grade Beam Sleeve Question to GC	Open	A&M Warshaw Plumbing & Heating	Shaw, Justin (JCS Construction Group, Inc.)	08/11/2017	Fiona Rooney	08/14/2017		Rooney, Fiona (JCS Construction Group, Inc.)					Bruno, Cristine (A&M Warshaw Plumbing & Heating)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Hart Howerton)	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Hart Howerton)					Falk, James (JCS Millshop)
14	Load Letter	Open	A&M Warshaw Plumbing & Heating	Rainone, Ron (Hart Howerton)	07/05/2017	Fiona Rooney	07/08/2017		Rooney, Fiona (JCS Construction Group, Inc.)		15 days			Bruno, Cristine (A&M Warshaw Plumbing & Heating)
3	Door Hardware	Open	JCS Construction Group, Inc.	Pusser, Brittany (JCS Construction Group, Inc.)	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS Construction Group, Inc.)					Shaw, Justin (JCS Construction Group, Inc.)

JCS | Construction Group, LLC

TWO-WEEK LOOK AHEAD

September 27th 2017

Project Name: Ferry Point **Job # 16-031** **Weekly Project Meeting Wednesday 10AM**

ACTIVITY	Week 1							Week 2							Comments
DATE:	Mon 9/25	Tu 9/26	Wed 9/27	Th 9/28	Fri 9/29	Sat 9/30	Sun 9/31	Mon 10/01	Tu 10/2	Wed 10/03	Thu 10/4	Fri 10/5	Sat 10/6	Sun 10/7	
Forms/Rebar	x	x	x	x	x	x		x	x	x	x	x			Sleeves/Forming/Stripping
Concrete				x											Cheek walls (one pour)
Backfilling	x	x	x	x	x	x		x	x	x	x	x			Compacting
Utilities								x	x	x	x	x			Drainage/Utilities/Roughings
Inspections												x			Plumbing/Electrical
															JCS will notify Parks, Maser and W&C 48 hours prior to EAI starting

44 Homestead Avenue, Stamford, CT 06902 t:(203) 485-9612 f:(203) 724-3884

JCS Construction Group, Inc.

Meeting #10

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 09/27/2017 **MEETING TIME:** 10:00 AM - 10:31 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:
Weekly Site meetings

ATTACHMENTS:

ATTENDEES:

Name	Company	Phone Number	Email
David Cerron		Tel: (212) 360-3457	david.cerron@parks.nyc.gov
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Caitlin Pontrella		Tel: (212) 360-3471	caitlin.pontrella@parks.nyc.gov
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Robert Zelley	Maser Consulting P.A.	Tel:	rzelley@maserconsulting.com
Arthur Fisher	Sam Tell Companies	Tel:	afisher@samtell.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept. CP suggests not to present PDC with piecemeal submissions but three separate packages: roof, exterior elevation, and kitchen. If the potential exterior awning for outside kitchen area is a temporary, seasonal structure, then it becomes a non-issue, does not need to be approved by PDC.					

JCS Construction Group, Inc.

Meeting #10

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
2.1	1	Stock Pile	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review current stock piles and confirm approach for securing them.					

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open
	Description: Review Submittal Log					
3.6	1	Bluestone	Ron Rainone **(Hart Howerton)**			On Hold
	Description: Currently waiting on approved samples.					
3.7	7	Roof Trusses	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS requests additional securing detail on the wood stringers. JCS to send RFI about the Simpson ties that have a maximum impact of 5/16" JCS to send RFI regarding the detail shown on the truss shops calling for rigid insulation on the bottom of the trusses but there is no corresponding drawing or note in the plans to show this.					
3.8	7	Kitchen	Ron Rainone **(Hart Howerton)**			Open
	Description: - As drawn by Jim Bailey, the New Exterior Bar/Kitchen design doesn't work because the column line is 11' from the building and isn't in Hart Howerton's design scope. AF to provide pricing to determine whether HH, JCS, and Ownership wants to proceed.					
3.9	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after reciept of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open

	Description: Review two week look ahead.

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	1	Drainage	Ron Rainone **(Hart Howerton)**			Open
	Description: We would like to look into bringing all building drainage to the existing system in the parking lot to avoid any disturbance to the Golf Course. We also have issues with the existing structures and their ability to implement the design intent.					
7.2	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction.					

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Oct 3, 2017 at 04:10 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
No Spec Section	38	0	Drainage Materials		Open	JCS Construction Group, Inc.		Justin Shaw		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/02/2017		10/16/2017	
No Spec Section	31	0	Soil Analytical Reports	Product Information	Open	Triple G		Eric Garrido	09/15/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/16/2017		09/30/2017	
No Spec Section	28	1	Wood Stain Samples	Sample	Open	JCS Millshop		James Falk		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending	10/03/2017 10/03/2017		10/17/2017	
06 4100 Architectural Wood Casework	26	1	Exterior Column	Shop Drawing	Open	JCS Millshop		James Falk		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/14/2017		09/28/2017	
06 4100 Architectural Wood Casework	19	0	Millwork Drawings	Shop Drawing	Open	JCS Millshop		James Falk	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	
08 1400 Wood Doors	18	0	Interior Doors	Shop Drawing	Open	Church Door		Chuck Sweetman	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	
03 3000 Cast-In-Place Concrete	7	2	Anchor Bolt Layout and Details	Plans	Open	Schiavo Steel Co. Inc.	05/25/2017	Bart Schiavo		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	08/15/2017		08/29/2017	

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Oct 3, 2017 at 04:13 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
47	Wine Dispenser	Open	JCS Millshop	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	09/26/2017	Fiona Rooney	09/29/2017		Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Interior Bar				Falk, James (JCS Millshop)
44	Drain pipe in cover layer	Open	JCS Construction Group, Inc.	Rainone, Ron (Hart Howerton)	09/25/2017	Fiona Rooney	09/28/2017		Rainone, Ron (Hart Howerton)					None
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Hart Howerton)	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JCS Construction Group, Inc.)					Wiles, Craig (JCS Millshop)
27	Grade Beam Sleeve Question to GC	Open	A&M Warshaw Plumbing & Heating	Shaw, Justin (JCS Construction Group, Inc.)	08/11/2017	Fiona Rooney	08/14/2017		Rooney, Fiona (JCS Construction Group, Inc.)					Bruno, Cristine (A&M Warshaw Plumbing & Heating)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Hart Howerton)	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Hart Howerton)					Falk, James (JCS Millshop)
14	Load Letter	Open	A&M Warshaw Plumbing & Heating	Rainone, Ron (Hart Howerton)	07/05/2017	Fiona Rooney	07/08/2017		Rooney, Fiona (JCS Construction Group, Inc.)		15 days			Bruno, Cristine (A&M Warshaw Plumbing & Heating)
3	Door Hardware	Open	JCS Construction Group, Inc.	Pusser, Brittany (JCS Construction Group, Inc.)	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS Construction Group, Inc.)					Shaw, Justin (JCS Construction Group, Inc.)

JCS Construction Group, Inc.

Meeting #11

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 10/11/2017 **MEETING TIME:** 10:00 AM - 10:30 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:
Weekly Site meetings

ATTACHMENTS:
Project Meeting.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Caitlin Pontrella		Tel: (212) 360-3471	caitlin.pontrella@parks.nyc.gov
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept. CP suggests not to present PDC with piecemeal submissions but three separate packages: roof, exterior elevation, and kitchen. If the potential exterior awning for outside kitchen area is a temporary, seasonal structure, then it becomes a non-issue, does not need to be approved by PDC.					

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open

	Description: Review Submittal Log					
3.6	1	Bluestone	Ron Rainone **(Hart Howerton)**			On Hold
	Description: Currently waiting on approved samples.					
3.7	7	Roof Trusses	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS requests additional securing detail on the wood stringers. JCS to send RFI about the Simpson ties that have a maximum impact of 5/16" JCS to send RFI regarding the detail shown on the truss shops calling for rigid insulation on the bottom of the trusses but there is no corresponding drawing or note in the plans to show this. JS: detail pertaining to through-bolts (versus welded bolts)					
3.9	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after reciept of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					
3.10	10	SSDS	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS is doing the gravel and EAI North is doing the piping. Pipe is going to be set on top of the gravel and will dip for the pits. Pipe is on top of the knee walls and the only depression from there is for the pits, so JCS can set the grade now with the stone sumped for depressions. Start backfilling on Friday/Monday. SSDS work to start Wednesday (10/10) Chases for pipes are completed, all the sleeves for the SSDS are the black sleeves going through the haunches. Other sleeves that are trenched out on site are for the sewer lateral, which the plumbers are coming tomorrow (10/5) to start and the electricians are running their stuff now too. Most of the stuff after the electricians can go above the haunch walls.					
3.11	10	Beverages	Ron Rainone **(Hart Howerton)**			Open
	Description: Location of Beverages					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	10	Anchor Bolts				Open
	Description: On 9/27, per site walkthrough, JCS and RR of HH noticed that GGG was using the wrong plans. The correct plans were then given to them for a second time.					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					

JCS Construction Group, Inc.

Meeting #11

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	1	Drainage	Ron Rainone **(Hart Howerton)**			Open
	Description: We would like to look into bringing all building drainage to the existing system in the parking lot to avoid any disturbance to the Golf Course. We also have issues with the existing structures and their ability to implement the design intent.					
7.2	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction.					

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
8.1	11	PCCO #004	John Gruber **(Trump Ferry Point LLC)**	10/ 11/ 2017		Open
	Description: Change order to supply additional 1x10 nominal exterior molding for the column base and AZM-217 for the column base cap.					
	Attachments: PCCO #004.pdf					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Oct 10, 2017 at 12:36 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
No Spec Section	41	0	Anchor Bolt Remedy		Open	Triple G		Christopher James		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/09/2017		10/23/2017	
07 3126 Simulated Slate Roofing	40	0	Ecostar Submittal Package		Open	J&C Building Renovations LLC		Cezary Bartosiewicz		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/09/2017		10/23/2017	
No Spec Section	39	0	Sika		Open	Triple G		Eric Garrido		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/06/2017		10/20/2017	
No Spec Section	31	0	Soil Analytical Reports	Product Information	Open	Triple G		Eric Garrido	09/15/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/16/2017		09/30/2017	
No Spec Section	28	1	Wood Stain Samples	Sample	Open	JCS Millshop		James Falk		Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Void Pending	10/03/2017 10/03/2017	10/03/2017	10/17/2017	
08 5200 Wood Windows	23	1	Window Shop Drawings		Open	Pella Windows and Doors		Robb DeWitt		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/10/2017		10/24/2017	
06 4100 Architectural Wood Casework	19	0	Millwork Drawings	Shop Drawing	Open	JCS Millshop		James Falk	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	
08 1400 Wood Doors	18	0	Interior Doors	Shop Drawing	Open	Church Door		Chuck Sweetman	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Oct 10, 2017 at 12:36 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
51	Coupula	Open	JCS Millshop	Rainone, Ron (Hart Howerton)	10/09/2017	Fiona Rooney	10/12/2017		Rainone, Ron (Hart Howerton)			06 - Carpentry-06110 - Wood Framing - Wood Framing		Wiles, Craig (JCS Millshop)
50	Access Panel	Open	JCS Construction Group, Inc.	Rainone, Ron (Hart Howerton)	10/09/2017	Fiona Rooney	10/12/2017		Rainone, Ron (Hart Howerton)					Shaw, Justin (JCS Construction Group, Inc.)
49	Lead	Open	JCS Construction Group, Inc.	Rainone, Ron (Hart Howerton)	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Hart Howerton)					Shaw, Justin (JCS Construction Group, Inc.)
47	Wine Dispenser	Open	JCS Millshop	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	09/26/2017	Fiona Rooney	09/29/2017		Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Interior Bar				Falk, James (JCS Millshop)
44	Drain pipe in cover layer	Open	JCS Construction Group, Inc.	Rainone, Ron (Hart Howerton)	09/25/2017	Fiona Rooney	09/28/2017		Rainone, Ron (Hart Howerton)					None
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Hart Howerton)	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JCS Construction Group, Inc.)					Wiles, Craig (JCS Millshop)
27	Grade Beam Sleeve Question to GC	Open	A&M Warshaw Plumbing & Heating	Shaw, Justin (JCS Construction Group, Inc.)	08/11/2017	Fiona Rooney	08/14/2017		Rooney, Fiona (JCS Construction Group, Inc.)					Bruno, Cristine (A&M Warshaw Plumbing & Heating)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Hart Howerton)	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Hart Howerton)					Falk, James (JCS Millshop)
14	Load Letter	Open	A&M Warshaw Plumbing & Heating	Rainone, Ron (Hart Howerton)	07/05/2017	Fiona Rooney	07/08/2017		Rooney, Fiona (JCS Construction Group, Inc.)		15 days			Bruno, Cristine (A&M Warshaw Plumbing & Heating)
3	Door Hardware	Open	JCS Construction Group, Inc.	Pusser, Brittany (JCS Construction Group, Inc.)	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS Construction Group, Inc.)					Shaw, Justin (JCS Construction Group, Inc.)

JCS | Construction Group, LLC

TWO-WEEK LOOK AHEAD

October 10th 2017

Project Name: Ferry Point **Job # 16-031** **Weekly Project Meeting Wednesday 10AM**

ACTIVITY	Week 1							Week 2							Comments
DATE:	M 10/09	T 10/10	W 10/11	T 10/12	F 10/13	S 10/14	S 10/15	M 10/16	T 10/17	W 10/18	T 10/19	F 10/20	S 10/21	S 10/22	
Forms		x	x	x	x	x		x	x	x	x	x			Backfill/Rebar/Concrete
Utilities		x	x	x	x	x		x	x						
Backfilling	x	x	x	x	x	x	x	x	x	x	x	x			Compacting/Stone
Inspections									x						Plumbing
EAI								x	x	x	x	x	x		
Inspections									x						Plumbing/Rebar/Concrete
								x	x	x	x	x	x		Mobilize/Erect

44 Homestead Avenue, Stamford, CT 06902 t:(203) 485-9612 f:(203) 724-8884

JCS Construction Group, Inc.

Meeting #13

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 10/25/2017 **MEETING TIME:** 10:00 AM - Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

10.18.17 Project Meeting B.m4a 10.18.17 Project Meeting A.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Evan Comilloni		Tel:	ecomilloni@woodardcurran.com
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Caitlin Pontrella		Tel: (212) 360-3471	caitlin.pontrella@parks.nyc.gov
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Terry Young		Tel:	teryryoung@msn.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept.					
	Previous Meeting Minutes: **10/25/2017:** Parks has submittal package. Ron sent a description and explanation to Parks on why we had to do everything, along with Ownership's letter. Waiting on submittal status and response. Timing for response from Parks is unknown. Detailed Bid Set for bar grill roof, all revised i					

tems. All equipment is pretty much what was in the drawings that JCS has already received. Exception: the 6-burner stove stop has been replaced with a 4 burner. Size of the outside sink was condensed to accommodate decrease in size from 13 to 11 feet. Hand sink is known, but would we need a three-compartment sink? Engineer to advise but per RR, as long as all dishes are sterilized inside building only handwash is needed. JCS needs to know whether there is going to be a grease trap going outside, three-compartment. JG requests a call with Sam Tell to sort out issues, but ownership needs to determine the extent of their outside scope. Pair of cold plates, refrigeration unit for the island, storage, drain boards...

JCS needs to know whether the floor drain going into the grease line or not.

Per JR, there will not be a three-compartment sink in outdoor bar. Theoretically, being that there is cooking going on in that area, someone could dispose of grease in the handwash sink, but the ultimate determination is the engineer's call.

Sam Tell and JCS to put together some budgetary numbers for this scope.

Front stairs are built per the changed (and, as of yet, unapproved) drawings so if PDC decides that they don't like that, we are going to have to do something about that. Per JG, and embellished by RR in his submittal to PDC, these changes were made based on the abundance of safety concerns.

Driveway and Exterior Bar will require a formal submission, most likely in mid-November. Drainage changes and other smaller changes do not require formal submission review by Parks. Parks provide suggestions versus a flat no. There will be a formal letter/endorsement by Parks accompanying the submission. Ownership hopes to have something to give to Caitlin for the driveway in under a week. Per CP, be thorough in explanation because if changes are logical they are more likely to pass.

1.2	11	Earthwork	Dave Keil **(Maser Consulting P.A.)**			Open

Description:
Compaction tests and Soil test results

Previous Meeting Minutes:

10/25/2017:
JCS did receive the plumbing permit from the DOB. Backfilling is ongoing.
Regarding the Shaping layer test results, Maser is still waiting on the Dioxin and Furon analyses, which will be available on the 24th.

Maser has not yet released their final letter on Soil Compaction to F&P but anticipates doing so today. Nothing to worry about in Maser's opinion. Team to push for an approval because we are beyond the point of return when it comes to this stone. JG to get on a call with Joe Tierney at F&P after the meeting. 88% to 98% compaction results.

Maser requests documentation on the quality of the stone that is being shipped from the quarry.

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open

Description:
Review Submittal Log

Previous Meeting Minutes:

10/25/2017:
Open architectural submittals to be returned by RR between 10/23 and 10/25.

Ejector pit, alternate grease trap submittals have been sent to engineers.

3.2	1	Bluestone	Ron Rainone **(Hart Howerton)**			Open

Description:

	Currently waiting on approved samples.					
	Previous Meeting Minutes: **10/25/2017:** Civil: JS to obtain 1'x1' samples of cleft bluestone so that JG can approve based on a "true representation of the color" in order to determine which supplier to use. JG wants the stone to come from a single quarry, so that the mineral makeup and size of the stone is uniform, the wear and tear/color and installation is consistent throughout. Final approval on stone to come from Eric.					
3.3	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after reciept of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					
	Previous Meeting Minutes: **10/25/2017:** JG is anticipating the delivery of a wood stain control sample RR's only comment on Millwork drawings will be that the overall width of the bar to be in accordance with the size that he made the false-wall. Other than that, all Millwork is to be reviewed/signed off on by JG/GS. Where JF made the 60" ADA space at the bar, RR will provide a spec on the code-required knee space beneath so that the die-wall can be brought back a little further in that area.					
3.4	10	SSDS	Ron Rainone **(Hart Howerton)**			Closed
	Description: JCS is doing the gravel and EAI North is doing the piping. Pipe is going to be set on top of the gravel and will dip for the pits. Pipe is on top of the knee walls and the only depression from there is for the pits, so JCS can set the grade now with the stone sumped for depressions. Start backfilling on Friday/Monday. SSDS work to start Wednesday (10/10) Chases for pipes are completed, all the sleeves for the SSDS are the black sleeves going through the haunches. Other sleeves that are trenched out on site are for the sewer lateral, which the plumbers are coming tomorrow (10/5) to start and the electricians are running their stuff now too. Most of the stuff after the electricians can go above the haunch walls.					
	Previous Meeting Minutes: **10/25/2017:** *(None)*					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	13	Roof Trusses	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS requests additional securing detail on the wood stringers. JCS to send RFI about the Simpson ties that have a maximum impact of 5/16" JS: detail pertaining to through-bolts (versus welded bolts) JCS requires direction from F&P					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **10/25/2017:** Woodard and Curran conferenced in: SSDS pit is not yet on schedule. JCS just got the required information from the structural engineer and will put a schedule together. Schedule: JCS will redo two-week look ahead now that we have some structural direction from F&P. Backfilling, plumbing, electrical underground, drainage, concrete and anchor bolt repairs are ongoing; we will schedule surveyors and inspections as soon as possible					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.2	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction.					
	Previous Meeting Minutes: **10/25/2017:** Hernan has yet to respond to the question of DOB-approved electrical drawings. JCS is still waiting on civil, landscaping, structural, landscaping or electrical. The title block sheet still does not accurately reflect the current drawings. JG called Hernan during the meeting with no response.					
7.3	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					
	Previous Meeting Minutes: **10/25/2017:** Front drive: JS would like to buy all hardscape material in one shot. JS requests entry driveway plans (based on potential exterior changes) to determine how to set up the site. Would be ideal to work our way out of the site so that after steel goes up we can set grades, JCS needs to know what height to set the grade. The proposed changes need to be approved by PDC, the cost needs to be approved by Eric. JG to do tissue sketch, for which Hart Howerton is not responsible because this is a landscape and civil drawing change and this all going to cost more money. No catch basins in the way if we open up the bottom. Bag drop, extra electrical and all of the stuff that is not currently on drawings, which JR and JG advised Eric would be an extra charge. JS inquired how we will be proceeding with these types of changes: are we doing drawings, are we doing RFIs, are we doing things on the fly? JG says that he will draw a tissue sketch to give to PDC prior to spending the money to reengineer. Per conversation between JS & F&P, JCS will submit based on plans and then modify the submittals based on site conditions. Submittals to be marked up after the fact.					
7.4	12	Pro Shop				Open
	Description: Interior Design					
	Previous Meeting Minutes: **10/25/2017:** Terry Young working between Gia and Tanya on the fixture and retail needs of the design of the Pro-Shop. The current floor plan is the only For Construction drawing of the Pro Shop, and Ownership bought JCS based on installing all the perimeter fixtures in the POS station. Plan is to have a combination of metal and millwork. The metal supplier is one that TY/GS have worked with previously on other Pro Shops. The concept involves freestanding millwork that anchors on the wall, going about 12' high, discussing potential of					

	a rolling ladder going across a fixed shelf at about 8' and another 4' of shelving on top of that. Fixture finish still to be determined. Per JG, we cannot go over the dollar value assigned to the Pro Shop without GS going in front of Eric and requesting additional funds. JCS' scope includes anything that would be attached to a wall and the cash wrap station. Free standing floor fixtures are predominantly metal with the exception of wooden tables. This metal is not in JCS' scope. Integrated millwork that attaches to the wall with some flexibility. TY can send drawings. TY had been working with JF at JCSMS, who has the original schematic drawings for the Pro Shop which was designed to look like the Bar. Interior design team to simplify the details but use the same wood. Would be ideal to have JCS build the millwork component. JF's perimeter drawings to be the driving force of design and construction, TY to insert what he wants into these Millwork shop drawings, rather than the opposite. JG to be cc'd on all correspondence. TY/GS' drawings for Interior Layout and elevations are almost complete for this. Eric would not want the mirrors cladded on the columns in the Pro Shop to obscure the view. Cladding Columns in white raised millwork panels. TY to provide JF with any details and dimensions that he would need to input into his drawings.

JCS Construction Group, LLC

TWO-WEEK LOOK AHEAD

October 18th 2017

Project Name: Ferry Point **Job # 16-031** **Weekly Project Meeting Thursday 10AM**

ACTIVITY	Week 1							Week 2							Comments
DATE:	Mon. 10/23	Tues. 10/24	Wed. 10/25	Thurs. 10/26	Fri. 10/27	Sat. 10/28	Sun. 10/29	Mon. 10/30	Tues 10/31	Wed. 11/01	Thurs. 11/02	Fri. 11/03	Sat. 11/04	Sun. 11/05	
Rebar			x	x											Patio
Utilities		x	x	x	x	x		x	x	x					Plumbing
Backfilling	x	x	x	x	x	x		x	x	x	x	x	x		Stone
Inspections					x				x			x			Plumbing
Steel				x											Survey
EAI								x	x	x	x	x			Complete by 11/04
Concrete								x							Patio
Maser			x		x			x							Rebar/Repairs/Concrete

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JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Oct 24, 2017 at 03:50 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
No Spec Section	45	0	Palight	Product Information	Open	JCS Millshop		James Falk		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/23/2017		11/06/2017	
No Spec Section	43	0	Proposed Alternate Grease Trap		Open	A&M Warshaw Plumbing & Heating	10/19/2017	Cristine Bruno	10/16/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/16/2017		10/30/2017	
No Spec Section	42	0	Submittal for Sakarete Repairs		Open	Triple G		Eric Garrido		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending			10/25/2017	
07 3126 Simulated Slate Roofing	40	0	Ecostar Submittal Package		Open	J&C Building Renovations LLC		Cezary Bartosiewicz		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/09/2017		10/23/2017	
No Spec Section	31	0	Soil Analytical Reports	Product Information	Open	Triple G		Eric Garrido	09/15/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/16/2017		09/30/2017	
No Spec Section	30	1	Ejector Pump and Pit	Shop Drawing	Open	JCS Construction Group, Inc.	10/18/2017	Justin Shaw		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/13/2017		10/27/2017	
05 3100 Steel Decking	29	1	Deck Drawings	Shop Drawing	Open	Schiavo Steel Co. Inc.		Bart Schiavo		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/20/2017		11/03/2017	
No Spec Section	28	1	Wood Stain Samples	Sample	Open	JCS Millshop		James Falk		Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Void Pending	10/03/2017 10/03/2017	10/03/2017	10/17/2017	
06 4100 Architectural Wood Casework	19	2	Millwork Drawings	Shop Drawing	Open	JCS Millshop	10/25/2017	James Falk		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending			11/03/2017	
06 4100 Architectural Wood Casework	19	0	Millwork Drawings	Shop Drawing	Open	JCS Millshop		James Falk	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	
08 1400 Wood Doors	18	0	Interior Doors	Shop Drawing	Open	Church Door		Chuck Sweetman	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Oct 24, 2017 at 04:07 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
50	Access Panel	Open	JCS Construction Group, Inc.	Rainone, Ron (Hart Howerton)	10/09/2017	Fiona Rooney	10/12/2017		Rainone, Ron (Hart Howerton)					Shaw, Justin (JCS Construction Group, Inc.)
49	Lead	Open	JCS Construction Group, Inc.	Rainone, Ron (Hart Howerton)	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Hart Howerton)					Shaw, Justin (JCS Construction Group, Inc.)
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Hart Howerton)	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JCS Construction Group, Inc.)					Wiles, Craig (JCS Millshop)
27	Grade Beam Sleeve Question to GC	Open	A&M Warshaw Plumbing & Heating	Shaw, Justin (JCS Construction Group, Inc.)	08/11/2017	Fiona Rooney	08/14/2017		Rooney, Fiona (JCS Construction Group, Inc.)					Bruno, Cristine (A&M Warshaw Plumbing & Heating)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Hart Howerton)	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Hart Howerton)					Falk, James (JCS Millshop)
14	Load Letter	Open	A&M Warshaw Plumbing & Heating	Rainone, Ron (Hart Howerton)	07/05/2017	Fiona Rooney	07/08/2017		Rooney, Fiona (JCS Construction Group, Inc.)		15 days			Bruno, Cristine (A&M Warshaw Plumbing & Heating)
3	Door Hardware	Open	JCS Construction Group, Inc.	Pusser, Brittany (JCS Construction Group, Inc.)	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS Construction Group, Inc.)					Shaw, Justin (JCS Construction Group, Inc.)

JCS Construction Group, Inc.

Meeting #14

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 11/01/2017 **MEETING TIME:** 10:00 AM - Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

10.25.17 Project Meeting.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Evan Comilloni		Tel:	ecomilloni@woodardcurran.com
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Melissa Noto		Tel:	mnoto@trumporg.com
Caitlin Pontrella		Tel: (212) 360-3471	caitlin.pontrella@parks.nyc.gov
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept.					
	Previous Meeting Minutes: **10/25/2017:** *(None)*					
1.2	11	Earthwork	Dave Keil **(Maser Consulting P.A.)**			Open
	Description:					

	Compaction tests and Soil test results					
	Previous Meeting Minutes: **10/25/2017:** DK received the shaping materials test results during the meeting. Preliminary glance looks ok. JCS will get report from Maser and forward to W&C					
1.3	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: JG brought Sponzilli's the first-round draft of landscape drawing, LP-1. New design will allow for functional, safer traffic flow and increased ADA compliance at driveway. Undecided where the bag drop will be. This drawing has been sent to Ron. On first glance, Joe Conforti of NYC Parks agrees that this is a more functional design but will need to bring it to PDC for formal approval. Trump to take one more step on their end then they will push it back to landscape architect to do a more formal presentation that will then go to PDC.					
	Previous Meeting Minutes: **10/25/2017:** *(None)*					

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open
	Description: Review Submittal Log					
	Previous Meeting Minutes: **10/25/2017:** *(None)*					
3.2	1	Bluestone	Ron Rainone **(Hart Howerton)**			Open
	Description: Currently waiting on approved samples.					
	Previous Meeting Minutes: **10/25/2017:** Back paving area: JCS will not set the catch basin for now, will determine location later. Elevation issue is, as of yet, unresolved. Staging area for carts is undetermined. Exterior changes include: Grill, Bar, Back of Clubhouse/staging area, venting, roof changes and locations, grill is now going underneath the overhang, Horseshoe bar ties into the columns and has been approved by Eric Trump					
3.3	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after reciept of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					
	Previous Meeting Minutes: **10/25/2017:** Exterior bar to be white painted Azek.					

	Wood Finish: Oak control sample provided by GS, Millshop can now provide samples for color selection, which will go to Eric Trump for final approval. • Fire retardant wood will change finish color. Does code for NYC require this? Per GS, she is legally required to write this in her specs, but it just has to abide by local code. Whoever is doing the case goods will figure that out. Per JS and JS, because the building is sprinklered this is unnecessary. • Interior designer no longer wants walnut, does not care what species it is, defers to JG Plain sawn white oak stained to match color of sample given to JCS, whichever species of wood doesn't matter to GS. GS wants full grain. Will not be going with full fill, so the specs provided will be revised and distributed by EOD. Once GS determines spec, this will be the control sample for all wood.					
3.5	13	Stone Tops	Giavona Sullivan **(The Trump Organization)**			Open
	Description: There is no extra material at Ivanka's. GS brought with her the Calcutta stone sample. Per JG, Breccia being held in Italy for the locker rooms. GS rejected the 2 synthetic marble samples provided by JG. Synthetic is a quartz material, considerably cheaper, durable, doesn't have the salt and peppering that one gets with Calcutta, considerably cheaper alternative. Outdoor stone/Marble spec would be used for front bar, back bar, cash wrap/check-in, all tops in pro-shop. JG's concern is the durability. GS suggests a protective membrane, but this will peel over time. GS will initial the Calcutta. Chip in marble is a safety/liability. GS prefers waterfall edge if she can get ET to approve.					
	Previous Meeting Minutes: **10/25/2017:** *(None)*					
3.6	13	Chandeliers/Fixtures				Open
	Description: GS received sections from HH and measured chandeliers to fit 18' ceilings. Ballroom ceilings and Grill Room ceilings are 18'. Hang chandeliers on highest coffer/beam of the ceilings Specified chandeliers are $15K per quote acquired by Melissa Noto and weigh 750 lbs. The trusses will not support this weight. The flat ceilings in the pro shop can support the weight but the ceilings in the other locations may not. 176 lbs (3x) Chandeliers will come with a threaded rod, secure with air craft cable to prevent the fixture from coming loose. Spread a Kindorf inside a gem box, threaded rod through the gem box and run the aircraft cable with the wires into the ceiling. GS spoke to Isabella at HH who confirmed that HH is not contracted to do any interior fit out work, as per plans and specs, so there are no RCPs. JF has created the roof and ceiling details. Interior columns are big enough to hang chandeliers, all they need to be is big enough to hold a gem box. Pro Shop chandeliers to be Schonbek. Need to have a section in the ceiling that is removable so that the HVAC equipment can be accessed as needed. Per JG, instead of an access panel, Justin will design something that can come apart fairly easily so that it doesn't impact the location of the fixtures. This fixture will be 60" by 60" by 60".					
	Previous Meeting Minutes: **10/25/2017:** *(None)*					
3.7	13	Coordination PLans	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Since HH isn't contracted to do elevations, the Millwork shop drawings show the locations and look of the crown moldings which were sent to GS for approval (still pending, as GS needs to set up Procore account to approve/markup submittals and access all drawings and RFIs). GS to markup Millwork bar shops to reflect the locations and coordination of GFI wired lamps. GS to provide a sample of bar lamp. Per GS/JG, electrical contractor to use millwork drawings as his plans for wiring the GFI at the bar. GS and JCS to create a laundry list of items that need to be specified, and what is needed from either side, as the coordination plans are not in anybody's scope and this has not been talked about. As per their previous experiences in Trump projects, it will fall on GS & JG to get the coordination issues squared away. Submittal workflow will move from RR to JG/GS. GS/JG to sign off on Millwork drawings. Markups to include every detail from epoxy, drink rail, USB ports, etc.					

	Previous Meeting Minutes: **10/25/2017:** *(None)*					
3.8	13	Carpet	Giavona Sullivan **(The Trump Organization)**, John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Carpet installation, GS and JG specify double stick.					
	Previous Meeting Minutes: **10/25/2017:** *(None)*					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	13	Roof Trusses	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS requests additional securing detail on the wood stringers. JCS to send RFI about the Simpson ties that have a maximum impact of 5/16" JS: detail pertaining to through-bolts (versus welded bolts) JCS requires direction from F&P					
	Previous Meeting Minutes: **10/25/2017:** Jim Falk sent out drawings for cupola trusses, which JS sent to RR for initial approval. After RR provides feedback, JS will send these out as official. Basically, if we remove the top chord and make them all a 3x8 and then extend it all the way through ad then scab on ½" plywood to make up the difference in the truss width and then gusset the two together then we have at least a full rafter tail on the entire thing, then we don't have to do different connections. Connection detail for plate locations and bolt locations is approximately 4000 holes, and would require framer to shoot the Hilti nails into the steel, mark it, countersink and drill a hole to put a bolt on it. RR said last week to countersink the plate but this is not a viable solution.					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **10/25/2017:** Rebar guys didn't show up due to forecasted rain, which will potentially push back Maser's rebar inspection. Still waiting on F&P to release compaction approval. Friday plumbing inspections, Wednesday EAI is starting work					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.2	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction.					
	Previous Meeting Minutes: **10/25/2017:** Hernan has yet to respond to the question of DOB-approved electrical drawings. JCS is still waiting on civil, landscaping, structural, landscaping or electrical. The title block sheet still does not accurately reflect the current drawings. JG and JR called Hernan during 10/18 meeting with no response.					
7.3	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					
	Previous Meeting Minutes: **10/25/2017:** Front drive: JS would like to buy all hardscape material in one shot. JS requests entry driveway plans (based on potential exterior changes) to determine how to set up the site. Would be ideal to work our way out of the site so that after steel goes up we can set grades, JCS needs to know what height to set the grade. The proposed changes need to be approved by PDC, the cost needs to be approved by Eric. JG to do tissue sketch, for which Hart Howerton is not responsible because this is a landscape and civil drawing change and this all going to cost more money. No catch basins in the way if we open up the bottom. Bag drop, extra electrical and all of the stuff that is not currently on drawings, which JR and JG advised Eric would be an extra charge. JS inquired how we will be proceeding with these types of changes: are we doing drawings, are we doing RFIs, are we doing things on the fly? JG says that he will draw a tissue sketch to give to PDC prior to spending the money to reengineer. Per conversation between JS & F&P, JCS will submit based on plans and then modify the submittals based on site conditions. Submittals to be marked up after the fact.					
7.4	12	Pro Shop				Open
	Description: Interior Design					
	Previous Meeting Minutes: **10/25/2017:** Millwork drawings to be reviewed and marked up for approval by GS and JG					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Oct 31, 2017 at 04:13 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
50	Access Panel	Open	JCS Construction ...	Rainone, Ron (Har...	10/09/2017	Fiona Rooney	10/12/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
49	Lead	Open	JCS Construction ...	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Har...	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JC...					Wiles, Craig (JCS Millshop)
27	Grade Beam Sleeve Question to GC	Open	A&M Warshaw Plumb...	Shaw, Justin (JCS...	08/11/2017	Fiona Rooney	08/14/2017		Rooney, Fiona (JC...					Bruno, Cristine (A&M Warshaw Plumbing & Heating)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...					Falk, James (JCS Millshop)
14	Load Letter	Open	A&M Warshaw Plumb...	Rainone, Ron (Har...	07/05/2017	Fiona Rooney	07/08/2017		Rooney, Fiona (JC...		15 days			Bruno, Cristine (A&M Warshaw Plumbing & Heating)
3	Door Hardware	Open	JCS Construction ...	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Oct 31, 2017 at 04:14 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
No Spec Section	47	0	Typical Molding Details	Shop Drawing	Open	JCS Millshop		James Falk		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending	10/30/2017 10/30/2017		11/13/2017	
No Spec Section	46	0	Typical Trim Detail for Columns and Ceiling	Shop Drawing	Open	JCS Millshop		James Falk		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending	10/30/2017 10/30/2017		11/13/2017	
No Spec Section	42	0	Submittal for Sakarete Repairs		Open	Triple G		Eric Garrido		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending			10/25/2017	
07 3126 Simulated Slate Roofing	40	1	Ecostar Submittal Package	Product Information	Open	J&C Building Renovations LLC		Cezary Bartosiewicz		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/30/2017		11/13/2017	
06 4100 Architectural Wood Casework	19	2	Millwork Drawings	Shop Drawing	Open	JCS Millshop	10/25/2017	James Falk		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending			11/03/2017	
06 4100 Architectural Wood Casework	19	0	Millwork Drawings	Shop Drawing	Open	JCS Millshop		James Falk	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	

JCS | Construction Group, Inc.

Meeting #15

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 11/08/2017 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

11.1.17 Project Meeting.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Evan Comilloni		Tel:	ecomilloni@woodardcurran.com
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Melissa Noto		Tel:	mnoto@trumporg.com
Caitlin Pontrella		Tel: (212) 360-3471	caitlin.pontrella@parks.nyc.gov
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept.					
	Previous Meeting Minutes: **11/01/2017:** Regarding outdoor grill, we will need to pipe to old location and new location in case PDC says no to proposed plans. Ron to forward files to F&P and then Hernan will get those plans approved by the City. JG does not want to wait for PDC approval before sending these to the city.					

1.2	11	Earthwork	Dave Keil **(Maser Consulting P.A.)**			Open
	Description: Compaction tests and Soil test results					
	Previous Meeting Minutes: **11/01/2017:** Everything for W&C has been satisfied. We have fill and compaction approvals, everything soil related has been approved Underslab SSDS piping scheduled for Thursday so if W&C wants to be here they need to have someone onsite to do witness. Maser is going to be present throughout the process. EAI is also laying the pipes. Maser to send out DFPs per usual for Parks & W&C to review. Shaping layer material: Material to be brought in as needed so as not to jam-up the site. Trucking manifest for each load of soil signed by driver, source generator, Maser to sign manifest stating that they did a PID scan and a visual scan. W&C to provide a manifest template to Maser.					
1.3	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: JG brought Sponzilli's the first-round draft of landscape drawing, LP-1. New design will allow for functional, safer traffic flow and increased ADA compliance at driveway. Undecided where the bag drop will be. This drawing has been sent to Ron. On first glance, Joe Conforti of NYC Parks agrees that this is a more functional design but will need to bring it to PDC for formal approval. Trump to take one more step on their end then they will push it back to landscape architect to do a more formal presentation that will then go to PDC.					
	Previous Meeting Minutes: **11/01/2017:** *(None)*					

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open
	Description: Review Submittal Log					
	Previous Meeting Minutes: **11/01/2017:** *(None)*					
3.2	1	Bluestone	Ron Rainone **(Hart Howerton)**			Open
	Description: Currently waiting on larger samples from the supplier					
	Previous Meeting Minutes: **11/01/2017:** *(None)*					
3.3	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after reciept of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					

	Previous Meeting Minutes: **11/01/2017:** GS' sample is reddish while the inspiration pictures are a darker brown/mocha. Soffit Detail: JG provided a contact for Melton Classics who can cast corbels if necessary. Chuck Hicks: (770) 963-3060 mike@meltonclassics.com Typical Millshop Details: GS' comments Instead of beadboard GS wants V-Groove. Either MDF or poplar board. This can just be flipped over to show the V-Groove. Corbel rejected. JG to review submittals with GS today and get that back to JCS.					
3.5	13	Stone Tops	Giavona Sullivan **(The Trump Organization)**			Open
	Description: There is no extra material at Ivanka's. GS brought with her the Calcutta stone sample. Per JG, Breccia being held in Italy for the locker rooms. GS rejected the 2 synthetic marble samples provided by JG. Synthetic is a quartz material, considerably cheaper, durable, doesn't have the salt and peppering that one gets with Calcutta, considerably cheaper alternative. Outdoor stone/Marble spec would be used for front bar, back bar, cash wrap/check-in, all tops in pro-shop. JG's concern is the durability. GS suggests a protective membrane, but this will peel over time. GS will initial the Calcutta. Chip in marble is a safety/liability. GS prefers waterfall edge if she can get ET to approve.					
	Previous Meeting Minutes: **11/01/2017:** Final specification still needed.					
3.6	13	Chandeliers/Fixtures				Open
	Description: GS received sections from HH and measured chandeliers to fit 18' ceilings. Ballroom ceilings and Grill Room ceilings are 18'. Hang chandeliers on highest coffer/beam of the ceilings Specified chandeliers are $15K per quote acquired by Melissa Noto and weigh 750 lbs. The trusses will not support this weight. The flat ceilings in the pro shop can support the weight but the ceilings in the other locations may not. 176 lbs (3x) Chandeliers will come with a threaded rod, secure with air craft cable to prevent the fixture from coming loose. Spread a Kindorf inside a gem box, threaded rod through the gem box and run the aircraft cable with the wires into the ceiling. GS spoke to Isabella at HH who confirmed that HH is not contracted to do any interior fit out work, as per plans and specs, so there are no RCPs. JF has created the roof and ceiling details. Interior columns are big enough to hang chandeliers, all they need to be is big enough to hold a gem box. Pro Shop chandeliers to be Schonbek. Need to have a section in the ceiling that is removable so that the HVAC equipment can be accessed as needed. Per JG, instead of an access panel, Justin will design something that can come apart fairly easily so that it doesn't impact the location of the fixtures. This fixture will be 60" by 60" by 60".					
	Previous Meeting Minutes: **11/01/2017:** Final specification still needed.					
3.7	13	Coordination PLans	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Since HH isn't contracted to do elevations, the Millwork shop drawings show the locations and look of the crown moldings which were sent to GS for approval (still pending, as GS needs to set up Procore account to approve/markup submittals and access all drawings and RFIs). GS to markup Millwork bar shops to reflect the locations and coordination of GFI wired lamps. GS to provide a sample of bar lamp. Per GS/JG, electrical contractor to use millwork drawings as his plans for wiring the GFI at the bar. GS and JCS to create a laundry list of items that need to be specified, and what is needed from either side, as the coordination plans are not in anybody's scope and this has not been talked about. As per their previous experiences in Trump projects, it will fall on GS & JG to get the coordination issues squared away. Submittal workflow will move from RR to JG/GS. GS/JG to sign off on Millwork drawings. Markups to include every detail from epoxy, drink rail, USB ports, etc.					

	Previous Meeting Minutes: **11/01/2017:** *(None)*					
3.8	13	Carpet	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**			Open
	Description: Carpet installation, GS and JG specify double stick.					
	Previous Meeting Minutes: **11/01/2017:** Final specification still needed.					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	13	Roof Trusses	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS requests additional securing detail on the wood stringers. JCS to send RFI about the Simpson ties that have a maximum impact of 5/16" JS: detail pertaining to through-bolts (versus welded bolts) JCS requires direction from F&P					
	Previous Meeting Minutes: **11/01/2017:** Connection detail for the tube steel plate. As it is, we would have to shoot everything 12" on center, countersink, and then drill a main hole through the countersunk hole, which is 3 steps to do a one-step thing. The tops of the beams are okay—they will be bolted. JCS to issue an official RFI pertaining to the tube steel specifically. Staggered 12" on center (per details on S-500.00). JCS to obtain 2009 code compliant calculations for the cupula changes from the manufacturer. No one is providing the permanent bracing plan, this has not been requested as a submittal form the engineers.					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	14	Plumbing Fixtures	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: JG is meeting with Kohler rep immediately after this meeting to discuss plumbing fixtures. Will be using floor mounted flush valve toilets.					
	Previous Meeting Minutes: **11/01/2017:** *(None)*					
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					

	Previous Meeting Minutes: **11/01/2017:** *(None)*

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **11/01/2017:** Maser spoke to manufacturer of liquid boot who said that the boot can be poured at 35F and rising. JS might try to box the bar and kitchen areas because we need to have that inspected and we cant put the plumbing in for it now until the inspection on Friday so we cannot do the plumbing until Monday.					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.2	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction.					
	Previous Meeting Minutes: **11/01/2017:** Hernan Rojas brought a set of drawings stamped by the DOB. DOB does not require stamped electrical drawings onsite because the electrician files his own plans with the DOB and pulls his own permits with the city, which are then approved separately from the rest of the drawings/scope. Sprinkler, Public Assembly and Fire Alarm to be filed separately. Whatever civil drawings we may have were a part of the original drawings that included a basement. These plans have changed since we received approval from DOB, JG to determine how to go about having the revisions approved/submitted. Still need Structural and Civil from HR. Two-week turn around for drawings that have not been received by the DOB. Steel erection is scheduled for the 15th and inspections will need to be called in for the end of the month. Civil, structural, plumbing, electrical, sprinkler, HVAC. RR to print the full-sized set and bill JR from the electronic copy HR sent to JR.					
7.3	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					
	Previous Meeting Minutes: **11/01/2017:** JR and JG to go over the exterior redesign one more time, incorporating ET's comments and then have Sponzilli redraw it. Need to create some kind of podium and determine the material (wood frame vs. masonry, canvas vs. hard roof?) and location. Need to bring power and communications out there, where IT closet is currently located, put two 2" adjacent to that and bring it out to podium from there for lighting, computer and maybe heating. Maybe need 2-3 circuits.					
7.4	12	Pro Shop				Open
	Description: Interior Design					

	Previous Meeting Minutes: **11/01/2017:** *(None)*

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Nov 7, 2017 at 03:51 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
50	Access Panel	Open	JCS Construction ...	Rainone, Ron (Har...	10/09/2017	Fiona Rooney	10/12/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
49	Lead	Open	JCS Construction ...	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Har...	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JC...					Wiles, Craig (JCS Millshop)
27	Grade Beam Sleeve Question to GC	Open	A&M Warshaw Plumb...	Shaw, Justin (JCS...	08/11/2017	Fiona Rooney	08/14/2017		Rooney, Fiona (JC...					Bruno, Cristine (A&M Warshaw Plumbing & Heating)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...					Falk, James (JCS Millshop)
14	Load Letter	Open	A&M Warshaw Plumb...	Rainone, Ron (Har...	07/05/2017	Fiona Rooney	07/08/2017		Rooney, Fiona (JC...		15 days			Bruno, Cristine (A&M Warshaw Plumbing & Heating)
3	Door Hardware	Open	JCS Construction ...	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Nov 7, 2017 at 03:51 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
No Spec Section	47	0	Typical Molding Details	Shop Drawing	Open	JCS Millshop		James Falk		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending	10/30/2017 10/30/2017		11/13/2017	
No Spec Section	46	0	Typical Trim Detail for Columns and Ceiling	Shop Drawing	Open	JCS Millshop		James Falk		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending	10/30/2017 10/30/2017		11/13/2017	
No Spec Section	42	0	Submittal for Sakarete Repairs		Open	Triple G		Eric Garrido		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending			10/25/2017	
07 3126 Simulated Slate Roofing	40	1	Ecostar Submittal Package	Product Information	Open	J&C Building Renovations LLC		Cezary Bartosiewicz		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/30/2017		11/13/2017	
06 4100 Architectural Wood Casework	19	2	Millwork Drawings	Shop Drawing	Open	JCS Millshop	10/25/2017	James Falk		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending			11/03/2017	
06 4100 Architectural Wood Casework	19	0	Millwork Drawings	Shop Drawing	Open	JCS Millshop		James Falk	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	

Kevin Dwyer
732 312-5800
908 702 1613

JCS | Construction Group, Inc.

Meeting #16

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Kevin.dwyer@fpa engineers.com

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 11/08/2017

MEETING TIME: 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Project Meeting 11-8-17.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Evan Comilloni		Tel:	ecomilloni@woodardcurran.com
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Melissa Noto		Tel:	mnoto@trumporg.com
Caitlin Pontrella		Tel: (212) 360-3471	caitlin.pontrella@parks.nyc.gov
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept.					
	Previous Meeting Minutes: **11/15/2017:** Final package of rear outside changes have been sent to Parks, the front has not been submitted to Parks.\					

1.2	11	Earthwork	Dave Keil **(Maser Consulting P.A.)**			Open
	Description: Compaction tests and Soil test results					
	Previous Meeting Minutes: **11/15/2017:** Maser to continue to send erosion control reports along with DFRs. W&C and Maser have not received the letter from F&P. W&C owes Maser templates for soil manifests. Soil not needed onsite at this time. Will be delivered as needed. Maser's reports on SSDS should continue to document any and all deviations from drawings, re3dline drawings/as-builts. Sign off on deviations from F&P as the original designer of the SSDS. This will be in the cert report but it is not something that Maser is certifying. JG and DK to coordinate this with F&P.					
1.3	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: JG brought Sponzilli's the first-round draft of landscape drawing, LP-1. New design will allow for functional, safer traffic flow and increased ADA compliance at driveway. Undecided where the bag drop will be. This drawing has been sent to Ron. On first glance, Joe Conforti of NYC Parks agrees that this is a more functional design but will need to bring it to PDC for formal approval. Trump to take one more step on their end then they will push it back to landscape architect to do a more formal presentation that will then go to PDC.					
	Previous Meeting Minutes: **11/15/2017:** ET is going to be onsite on Friday. JS can meet with ownership and ET to discuss location of transformer in relation to the turning circle and associated elevations.					

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open
	Description: Review Submittal Log					
	Previous Meeting Minutes: **11/15/2017:** Window shops have been resubmitted, should be a quick turnaround because there was only a minor change in the resubmission. Three egress doors (104B, 103C, 101A) need to have ADA sills and require 3rd party certification or leave it as is sign off on JCS not being responsible for wind loads. need to have ownership determine how to proceed with sills as often ADA sills present the hazard of rain water to enter building,					
3.2	1	Bluestone	Ron Rainone **(Hart Howerton)**			Open
	Description: Currently waiting on larger samples from the supplier					
	Previous Meeting Minutes: **11/15/2017:** *(None)*					
3.3	9	Millwork	Ron Rainone **(Hart Howerton)**			Open

	Description: JCS Millshop requires at least 2 weeks after reciept of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					
	Previous Meeting Minutes: **11/15/2017:** Interior millwork sample of flat-sawn ash has an open cathedral grain and, per JG, looks similar to the furniture used throughout other Trump properties so will mostly be approved.					
3.5	13	Stone Tops	Giavona Sullivan **(The Trump Organization)**			Open
	Description: There is no extra material at Ivanka's. GS brought with her the Calcutta stone sample. Per JG, Breccia being held in Italy for the locker rooms. GS rejected the 2 synthetic marble samples provided by JG. Synthetic is a quartz material, considerably cheaper, durable, doesn't have the salt and peppering that one gets with Calcutta, considerably cheaper alternative. Outdoor stone/Marble spec would be used for front bar, back bar, cash wrap/check-in, all tops in pro-shop. JG's concern is the durability. GS suggests a protective membrane, but this will peel over time. GS will initial the Calcutta. Chip in marble is a safety/liability. GS prefers waterfall edge if she can get ET to approve.					
	Previous Meeting Minutes: **11/15/2017:** Final specification still needed.					
3.6	13	Chandeliers/Fixtures				Open
	Description: GS received sections from HH and measured chandeliers to fit 18' ceilings. Ballroom ceilings and Grill Room ceilings are 18'. Hang chandeliers on highest coffer/beam of the ceilings Specified chandeliers are $15K per quote acquired by Melissa Noto and weigh 750 lbs. The trusses will not support this weight. The flat ceilings in the pro shop can support the weight but the ceilings in the other locations may not. 176 lbs (3x) Chandeliers will come with a threaded rod, secure with air craft cable to prevent the fixture from coming loose. Spread a Kindorf inside a gem box, threaded rod through the gem box and run the aircraft cable with the wires into the ceiling. GS spoke to Isabella at HH who confirmed that HH is not contracted to do any interior fit out work, as per plans and specs, so there are no RCPs. JF has created the roof and ceiling details. Interior columns are big enough to hang chandeliers, all they need to be is big enough to hold a gem box. Pro Shop chandeliers to be Schonbek. Need to have a section in the ceiling that is removable so that the HVAC equipment can be accessed as needed. Per JG, instead of an access panel, Justin will design something that can come apart fairly easily so that it doesn't impact the location of the fixtures. This fixture will be 60" by 60" by 60".					
	Previous Meeting Minutes: **11/15/2017:** Final specification still needed.					
3.7	13	Coordination PLans	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Since HH isn't contracted to do elevations, the Millwork shop drawings show the locations and look of the crown moldings which were sent to GS for approval (still pending, as GS needs to set up Procore account to approve/markup submittals and access all drawings and RFIs). GS to markup Millwork bar shops to reflect the locations and coordination of GFI wired lamps. GS to provide a sample of bar lamp. Per GS/JG, electrical contractor to use millwork drawings as his plans for wiring the GFI at the bar. GS and JCS to create a laundry list of items that need to be specified, and what is needed from either side, as the coordination plans are not in anybody's scope and this has not been talked about. As per their previous experiences in Trump projects, it will fall on GS & JG to get the coordination issues squared away. Submittal workflow will move from RR to JG/GS. GS/JG to sign off on Millwork drawings. Markups to include every detail from epoxy, drink rail, USB ports, etc.					

	Previous Meeting Minutes: **11/15/2017:** *(None)*					
3.8	13	Carpet	Giavona Sullivan **(The Trump Organization)**, John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Carpet installation, GS and JG specify double stick.					
	Previous Meeting Minutes: **11/15/2017:** Final specification still needed.					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	13	Roof Trusses	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS requests additional securing detail on the wood stringers. JCS to send RFI about the Simpson ties that have a maximum impact of 5/16" JS: detail pertaining to through-bolts (versus welded bolts) JCS requires direction from F&P					
	Previous Meeting Minutes: **11/15/2017:** Cupula framing issue: everything aesthetic solution that JCS sends to design team as a means of remedying the off-center rafters is returned with an off-center structural review/notes. Original design didn't work, new designs work from a structural standpoint but not aesthetic. JCS submitted an on-center option. Truss manufacturer will not certify trusses that are not designed by their team.					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	14	Plumbing Fixtures	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: JG is meeting with Kohler rep immediately after this meeting to discuss plumbing fixtures. Will be using floor mounted flush valve toilets.					
	Previous Meeting Minutes: **11/15/2017:** Plumbing fixtures will be left in warehouse and delivered to site in JCS' care as needed.					
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **11/15/2017:** *(None)*					

JCS Construction Group, Inc.

Meeting #16

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open

Description:
Review two week look ahead. 3-4 Weeks

Previous Meeting Minutes:

11/15/2017:
Liquid boot installation has begun.
Boot, pouring back slab and wall adjacent to the loading dock, steel tentatively still schedule for next week. Rest of the slab is still scheduled for next week as well, along with all stairs but pouring the ramps is on hold due to potential changes in elevations. Assume the back grade is not changing, although JR might want to change it, Grades still not established for cart paths to be installed per JG 11/14/17
Wood framing is ongoing.
There will potential hold ups if submittals are not reviewed and returned by the proper parties in a timely fashion.

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.2	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open

Description:
JCS has yet to receive Civil drawings For Construction.

Previous Meeting Minutes:

11/15/2017: *(None)*

7.3	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open

Description:
Additional/Changes to Design and Scope

Previous Meeting Minutes:

11/15/2017:
JR and JG to go over the exterior redesign one more time, incorporating ET's comments and then have Sponzilli redraw it. Need to create some kind of podium and determine the material (wood frame vs. masonry, canvas vs. hard roof?) and location. Need to bring power and communications out there, where IT closet is currently located, put two 2" adjacent to that and bring it out to podium from there for lighting, computer and maybe heating. Maybe need 2-3 circuits.

7.4	12	Pro Shop				Open

Description:
Interior Design

Previous Meeting Minutes:

11/15/2017: *(None)*

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Nov 14, 2017 at 03:45 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
06 4100 Architectural Wood Casework	48	0	Exterior Pilasters	Shop Drawing	Open	JCS Millshop		James Falk		Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending	11/08/2017		11/22/2017	
06 4100 Architectural Wood Casework	47	0	Typical Molding Details	Shop Drawing	Open	JCS Millshop		James Falk		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending	10/30/2017 10/30/2017		11/13/2017	
06 4100 Architectural Wood Casework	46	0	Typical Trim Detail for Columns and Ceiling	Shop Drawing	Open	JCS Millshop		James Falk		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending	10/30/2017 10/30/2017		11/13/2017	
No Spec Section	42	0	Submittal for Sakarete Repairs		Open	Triple G		Eric Garrido		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending			10/25/2017	
07 3126 Simulated Slate Roofing	40	1	Ecostar Submittal Package	Product Information	Open	J&C Building Renovations LLC		Cezary Bartosiewicz		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/30/2017		11/13/2017	
08 5200 Wood Windows	23	2	Window Shop Drawings	Shop Drawing	Open	Pella Windows and Doors		Robb DeWitt		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	11/08/2017		11/22/2017	
06 4100 Architectural Wood Casework	19	2	Millwork Drawings	Shop Drawing	Open	JCS Millshop	10/25/2017	James Falk		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending	11/14/2017 11/14/2017		11/03/2017	
06 4100 Architectural Wood Casework	19	0	Millwork Drawings	Shop Drawing	Open	JCS Millshop		James Falk	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	
08 1400 Wood Doors	18	1	Interior Doors	Shop Drawing	Open	Church Door	11/28/2017	Chuck Sweetman	11/13/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	11/13/2017		11/27/2017	

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Nov 14, 2017 at 03:50 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
55	Translucent Glass Panels	Open		Rainone, Ron (Har...	11/10/2017	Justin Shaw	11/13/2017		Shaw, Justin (JCS...					None
54	Rise and Run Dimensions Requested	Open	Triple G	Rainone, Ron (Har...	11/08/2017	Fiona Rooney	11/11/2017		Rooney, Fiona (JC...					Garrido, Eric (Triple G)
53	CFM Roof Framing Connection	Open	JCS Construction ...	Rainone, Ron (Har...	11/07/2017	Justin Shaw	11/10/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)
51	Coupula	Open	JCS Millshop	Rainone, Ron (Har...	10/09/2017	Fiona Rooney	10/12/2017		Rooney, Fiona (JC...			06 - Carpentry-06110 - Wood Framing - Wood Framing		Wiles, Craig (JCS Millshop)
50	Access Panel	Open	JCS Construction ...	Rainone, Ron (Har...	10/09/2017	Fiona Rooney	10/12/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
49	Leaders	Open	JCS Construction ...	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Har...	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JC...					Wiles, Craig (JCS Millshop)
27	Grade Beam Sleeve Question to GC	Open	A&M Warshaw Plumb...	Shaw, Justin (JCS...	08/11/2017	Fiona Rooney	08/14/2017		Rooney, Fiona (JC...					Bruno, Cristine (A&M Warshaw Plumbing & Heating)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...					Falk, James (JCS Millshop)
14	Load Letter	Open	A&M Warshaw Plumb...	Rainone, Ron (Har...	07/05/2017	Fiona Rooney	07/08/2017		Rooney, Fiona (JC...		15 days			Bruno, Cristine (A&M Warshaw Plumbing & Heating)
3	Door Hardware	Open	JCS Construction ...	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)

JCS | Construction Group, Inc.

SMOKE TEST
FRIDAY
12/8

Meeting #19

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 11/29/2017 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Project Meeting 11.29.17.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Evan Comilloni		Tel:	ecomilloni@woodardcurran.com
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Melissa Noto		Tel:	mnoto@trumporg.com
Caitlin Pontrella		Tel: (212) 360-3471	caitlin.pontrella@parks.nyc.gov
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open

Description:
Ownership is responsible for getting all changes approved by City Hall and Parks Dept.

Previous Meeting Minutes:

11/29/2017:
Front entrance was discussed. RR to add his notes for JG to submit to ET. Sponzilli to provide an updated CAD drawing and F&P to modify grades. RR to coordinate.
RR to provide revised locations and details on railing, ramps, stairs based on PDC comments.

	Trump to determine how to screen windows, how to proceed with exterior bar glazing. Trump to determine access to septic tank, ejector pump					
1.2	11	Earthwork	Dave Keil **(Maser Consulting P.A.)**			Open
	Description: Compaction tests and Soil test results					
	Previous Meeting Minutes: **11/29/2017:** DK to send a copy of his working manifest to W&C for review and approval since it doesn't look like W&C will be able to provide in time.					
1.3	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: JG brought Sponzilli's the first-round draft of landscape drawing, LP-1. New design will allow for functional, safer traffic flow and increased ADA compliance at driveway. Undecided where the bag drop will be. This drawing has been sent to Ron. On first glance, Joe Conforti of NYC Parks agrees that this is a more functional design but will need to bring it to PDC for formal approval. Trump to take one more step on their end then they will push it back to landscape architect to do a more formal presentation that will then go to PDC.					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
2.1	18	SSDS Update	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS needed to cut back and correct some areas of the anchor bolts, needed to cut and fold back the membrane in these locations. EAI to fold it back and respray at a later date. Smoke test to be done after steel.					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open
	Description: Review Submittal Log					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					
3.2	1	Bluestone	Ron Rainone **(Hart Howerton)**			Open
	Description: Currently waiting on larger samples from the supplier					
	Previous Meeting Minutes: **11/29/2017:** All sandstone is from one lot.					

	How much is full color thermal vs full color cleft? How much is blue stone cleft vs bluestone thermal?					
3.3	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after reciept of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					
3.5	13	Stone Tops	Giavona Sullivan **(The Trump Organization)**			Open
	Description: There is no extra material at Ivanka's. GS brought with her the Calcutta stone sample. Per JG, Breccia being held in Italy for the locker rooms. GS rejected the 2 synthetic marble samples provided by JG. Synthetic is a quartz material, considerably cheaper, durable, doesn't have the salt and peppering that one gets with Calcutta, considerably cheaper alternative. Outdoor stone/Marble spec would be used for front bar, back bar, cash wrap/check-in, all tops in pro-shop. JG's concern is the durability. GS suggests a protective membrane, but this will peel over time. GS will initial the Calcutta. Chip in marble is a safety/liability. GS prefers waterfall edge if she can get ET to approve.					
	Previous Meeting Minutes: **11/29/2017:** Final specification still needed.					
3.6	13	Chandeliers/Fixtures				Open
	Description: GS received sections from HH and measured chandeliers to fit 18' ceilings. Ballroom ceilings and Grill Room ceilings are 18'. Hang chandeliers on highest coffer/beam of the ceilings Specified chandeliers are $15K per quote acquired by Melissa Noto and weigh 750 lbs: The trusses will not support this weight. The flat ceilings in the pro shop can support the weight but the ceilings in the other locations may not. 176 lbs (3x) Chandeliers will come with a threaded rod, secure with air craft cable to prevent the fixture from coming loose. Spread a Kindorf inside a gem box, threaded rod through the gem box and run the aircraft cable with the wires into the ceiling. GS spoke to Isabella at HH who confirmed that HH is not contracted to do any interior fit out work, as per plans and specs, so there are no RCPs. JF has created the roof and ceiling details. Interior columns are big enough to hang chandeliers, all they need to be is big enough to hold a gem box. Pro Shop chandeliers to be Schonbek. Need to have a section in the ceiling that is removable so that the HVAC equipment can be accessed as needed. Per JG, instead of an access panel, Justin will design something that can come apart fairly easily so that it doesn't impact the location of the fixtures. This fixture will be 60" by 60" by 60".					
	Previous Meeting Minutes: **11/29/2017:** Final specification still needed.					
3.8	13	Carpet	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**			Open
	Description: Carpet installation, GS and JG specify double stick.					

	Previous Meeting Minutes: **11/29/2017:** Final specification still needed.					
3.9	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **11/29/2017:** Final specification still needed on hardware.					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	14	Plumbing Fixtures	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: JG is meeting with Kohler rep immediately after this meeting to discuss plumbing fixtures. Will be using floor mounted flush valve toilets.					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					

JCS Construction Group, Inc.

Meeting #19

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.2	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction.					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					
7.3	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					
7.4	12	Pro Shop				Open
	Description: Interior Design					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Dec 5, 2017 at 04:36 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
No Spec Section	52	0	Brick	Product Information	Open	Gault Stone		Bryan Williamson		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	12/05/2017		12/19/2017	
No Spec Section	42	0	Submittal for Sakarete Repairs		Open	Triple G		Eric Garrido		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending			10/25/2017	
06 4100 Architectural Wood Casework	19	3	Millwork Drawings	Shop Drawing	Open	JCS Millshop	12/06/2017	James Falk	11/29/2017	Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending	11/29/2017 11/29/2017		12/13/2017	
06 4100 Architectural Wood Casework	19	0	Millwork Drawings	Shop Drawing	Open	JCS Millshop		James Falk	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	
08 1400 Wood Doors	18	1	Interior Doors	Shop Drawing	Open	Church Door	11/28/2017	Chuck Sweetman	11/13/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	11/13/2017		11/27/2017	

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Dec 5, 2017 at 04:36 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
55	Translucent Glass Panels	Open		Sullivan, Giavona...	11/10/2017	Justin Shaw	11/13/2017		Sullivan, Giavona...					None
49	Leaders	Open	JCS Construction ...	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Har...	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JC...					Wiles, Craig (JCS Millshop)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...					Falk, James (JCS Millshop)
14	Load Letter	Open	A&M Warshaw Plumb...	Rainone, Ron (Har...	07/05/2017	Fiona Rooney	07/08/2017		Rooney, Fiona (JC...		15 days			Bruno, Cristine (A&M Warshaw Plumbing & Heating)
3	Door Hardware	Open	JCS Construction ...	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)

JCS | Construction Group, LLC

TWO-WEEK LOOK AHEAD

December 5th 2017

Project Name: Ferry Point **Job # 16-031** **Weekly Project Meeting Wednesday 10AM**

ACTIVITY	Week 1							Week 2							Comments
DATE:	M 12/04	T 12/05	W 12/06	T 12/07	F 12/08	S 12/09	S 12/10	M 12/11	T 12/12	W 12/13	T 12/14	F 12/15	S 12/16	S 12/17	
REBAR								x	x	x					
CONCRETE												x			
BACKFILLING	x	x	x	x	x	x									
STEEL			x	x	x	x		x	x						
EAI					x										repair/smoke test
MASER	x	x								x		x			rebar/concrete/backfill

44 Homestead Avenue, Stamford, CT 06902 t:(203) 485-9612 f:(203) 721-3884

JCS Construction Group, Inc.

Meeting #20

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 12/13/2017 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Project Meeting 12-6-17 1.m4a Project Meeting 12-6-17 2.m4a Project Meeting 12-6-17 3.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Kay Zias		Tel:	kay.zias@parks.nyc.gov
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept.					
	Previous Meeting Minutes: **11/29/2017:** JCS has yet to receive these drawings for Construction/Pricing					
1.2	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open

	Mahogany wood was decided upon The size of the crown molding will need to be increased in size in some areas from a 6" to an 8", larger molding will be foam/plastic, not be MDF. Shops were reviewed. Gia to provide JCS with redlines to revise and resubmit. The reuse of current cash drawers was discussed.					
3.4	13	Stone Tops	Giavona Sullivan **(The Trump Organization)**			Open
	Description: Calcutta v. Synthetic Installation differences Quantities					
	Previous Meeting Minutes: **11/29/2017:** Final specification still needed.					
3.5	13	Chandeliers/Fixtures				Open
	Previous Meeting Minutes: **11/29/2017:** Final specification still needed. Gia needs to specify a fixture in order for the structural engineer to provide a detail for support ET wants a chandelier hanging from the cupola: JCS needs spec, and structural detail					
3.6	13	Carpet	Giavona Sullivan **(The Trump Organization)**, John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Carpet installation, GS and JG specify double stick.					
	Previous Meeting Minutes: **11/29/2017:** Final specification still needed.					
3.7	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **11/29/2017:** Final specification still needed on hardware.					
3.8	12	Pro Shop				Open
	Description: Interior Design					

JCS Construction Group, Inc.

Meeting #20

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction. Final Grades still not established					
	Previous Meeting Minutes: **11/29/2017:** JCS is still waiting on this.					
7.2	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					
	Previous Meeting Minutes: **11/29/2017:** JCS has yet to receive these drawings for Construction/Pricing					

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Dec 12, 2017 at 04:10 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
56	Cupola Items	Open		Rainone, Ron (Har...	12/08/2017	Justin Shaw	12/11/2017		Shaw, Justin (JCS...				Yes (Unknown)	None
55	Translucent Glass Panels	Open		Sullivan, Giavona...	11/10/2017	Justin Shaw	11/13/2017		Shaw, Justin (JCS...					None
53	CFM Roof Framing Connection	Open	JCS Construction ...	Rainone, Ron (Har...	11/07/2017	Justin Shaw	11/10/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)
49	Leaders	Open	JCS Construction ...	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Har...	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JC...					Wiles, Craig (JCS Millshop)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...					Falk, James (JCS Millshop)
14	Load Letter	Open	A&M Warshaw Plumb...	Rainone, Ron (Har...	07/05/2017	Fiona Rooney	07/08/2017		Rooney, Fiona (JC...		15 days			Bruno, Cristine (A&M Warshaw Plumbing & Heating)
3	Door Hardware	Open	JCS Construction ...	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)

JCS Construction Group, Inc.

Meeting #21

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 01/03/2018 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Project Meeting 12.13.2017 2.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Kay Zias		Tel:	kay.zias@parks.nyc.gov
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept.					
	Previous Meeting Minutes: **12/13/2017:** JCS has yet to receive these drawings for Construction/Pricing					

WC CONTRACTS WITH GAI

SCHEDULE FOR FAI
REMINDER MID-FEB OR LATE FEB
SSDS

JCS | Construction Group, Inc.

Meeting #21

	JCS is no longer able to support another round of drafting without an approved change order for design costs as 6 revisions have already been provided. Finished fronts on equipment is not feasible. Ownership will be reusing the existing cash wraps. Requests that the liquor shelves be packed forward. Jim Falk to detail the base of column and how cash drawer will be integrated. JCS requests that the Interior Design team elect a single representative to be the point of contact for submittal review, RFI and design-related items. It was determined that GS would be this point of contact.					
3.4	13	Stone Tops	Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **12/13/2017:** GS to purchase. Quantities: Tile and slab counts for bar, bathrooms, locker rooms 3" Waterfall on all tops					
3.5	13	Chandeliers/Fixtures				Open
	Previous Meeting Minutes: **12/13/2017:** Final specification still needed. Gia needs to specify a fixture in order for the structural engineer to provide a detail for support ET wants a chandelier hanging from the cupola: JCS needs spec, and structural detail					
3.6	13	Carpet	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**			Open
	Description: Carpet installation, GS and JG specify double stick.					
	Previous Meeting Minutes: **12/13/2017:** Final specification still needed.					
3.7	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **12/13/2017:** Final specification still needed on hardware as well as the finish type for all door submittals					
3.8	12	Pro Shop				Open
	Description: Interior Design					
	Previous Meeting Minutes: **12/13/2017:** Pro-shop will remain as is until further notice					

	Previous Meeting Minutes: **12/13/2017:** Final specifications still needed					
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **12/13/2017:** JCS has yet to receive these drawings.					
5.3	20	Lighting	Giavona Sullivan **(The Trump Organization)**			Open
	Description: Lighting Plan					
	Previous Meeting Minutes: **12/13/2017:** Lighting plan will not be changed, due to time and cost of change orders.					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **12/13/2017:** *(None)*					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction. Final Grades still not established					
	Previous Meeting Minutes: **12/13/2017:** JCS is still waiting on this.					
7.2	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Jan 2, 2018 at 04:11 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
56	Cupola Items	Open		Rainone, Ron (Har...	12/08/2017	Justin Shaw	12/11/2017		Shaw, Justin (JCS...				Yes (Unknown)	None
55	Translucent Glass Panels	Open		Sullivan, Giavona...	11/10/2017	Justin Shaw	11/13/2017		Shaw, Justin (JCS...					None
53	CFM Roof Framing Connection	Open	JCS Construction ...	Rainone, Ron (Har...	11/07/2017	Justin Shaw	11/10/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)
49	Leaders	Open	JCS Construction ...	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Har...	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JC...					Wiles, Craig (JCS Millshop)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...					Falk, James (JCS Millshop)
3	Door Hardware	Open	JCS Construction ...	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)

JCS | Construction Group, Inc.

Meeting #22

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 01/03/2018 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Project Meeting 1.3.2018.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Kay Zias		Tel:	kay.zias@parks.nyc.gov
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open

Description:
Ownership is responsible for getting all changes approved by City Hall and Parks Dept.

Previous Meeting Minutes:

01/03/2018:
Per Joe Conforti, Sheena has no commitment on DEC submission.
No outright issues from Parks about changes
JC of DEC: Changes seem logical.

1.2	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/03/2018:** JCS has yet to receive these drawings for Construction/Pricing					

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
2.1	18	SSDS Update	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **01/03/2018:** EAI to remobilize at the end of February to do the rough piping of the SSDS JS confirmed with W&C that the changes to the SSDS determined during the construction of the Construction of the new Clubhosue will be picked up in the work done by EAI in other work thgroughout the Park. SL suggests coordinating mobilization of EAi . SL informs that the because there is no sitework or earth disturbance being done maser can scale down their presence onsite to one inspection per month if we put down hay mulch or tarp during the winter Less expensive to keep Maser on weekly and not put down temporary stabilization because hay mulch would destroy the course.					

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open
	Description: Review Submittal Log Ejector Pump drawings needs sign-off on in order to order basin and pump ASAP as this is a long lead time item.					
	Previous Meeting Minutes: **01/03/2018:** JG to follow up with F&P on ejector pump					
3.2	1	Bluestone	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **01/03/2018:** 24x24 samples have been shipped by supplier. JG will ask ET which stone he wants.					
3.3	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after receipt of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					
	Previous Meeting Minutes: **01/03/2018:** RFI #19 is still open Samples, bar revisions and new pricing still open.					

3.4	13	Stone Tops	Giavona Sullivan **(The Trump Organization)**			Closed
	Previous Meeting Minutes: **01/03/2018:** *(None)*					
3.5	13	Chandeliers/Fixtures				Open
	Previous Meeting Minutes: **01/03/2018:** Supports in the coffers for chandelier, as of now we are working with non-structural coffers. In order to hang chandeliers in dining room JCS to add structural 2x laying on the bottom chord that we can run a threaded rod into it. Will need locations later but proceed with structural. Chandelier to hang from Cupola still open.					
3.6	13	Carpet	Giavona Sullivan **(The Trump Organization)**, John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Carpet installation, GS and JG specify double stick.					
	Previous Meeting Minutes: **01/03/2018:** Final specification and quantities still needed.					
3.7	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **01/03/2018:** Final specification still needed on hardware as well as the finish type for all door submittals					
3.8	12	Pro Shop				Open
	Description: Interior Design					
	Previous Meeting Minutes: **01/03/2018:** Pro-shop will remain as is until further notice and approved pricing based on ID concept renderings					
3.10	19	Drawings for Exterior Changes	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **01/03/2018:** JCS has yet to receive these drawings for Construction/Pricing and will be building the back bar as per drawings received to date					
3.11	19	Exterior Door Hardware	Giavona Sullivan **(The Trump Organization)**			Open

	Previous Meeting Minutes: **01/03/2018:** JCS has yet to receive these specs.					
3.12	20	Cash Drop	Joe Roediger	12/ 20/ 2017		Open
	Description: Jewelry store-style cash-drop at comptroller's office					
	Previous Meeting Minutes: **01/03/2018:** Ownership to provide detail for pricing					
3.13	20	Radar at Cupola	Joe Roediger	12/ 20/ 2017		Open
	Description: Requirements will be provided by 12/20/2018 (AV, LV and what the roofer needs)					
	Previous Meeting Minutes: **01/03/2018:** RFI #56 Cupola Items: These details will need to be provided by Owner and this RFI shall remain open until it is completed. L shaped bracket on underside of soffit coming off the rafter tail. Power: regular 1 10, Cable is regular CAT6 We will run the wire up exterior sleeve and hide it.					
3.14	21	Brick	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: JCS to obtain less uniform/more tumbled looking brick					
	Previous Meeting Minutes: **01/03/2018:** *(None)*					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	21	RFI #53	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Bar room ceiling connection detail needed.					
	Previous Meeting Minutes: **01/03/2018:** *(None)*					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	14	Plumbing Fixtures	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/03/2018:** Final specifications still needed					

5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **01/03/2018:** JCS has yet to receive these drawings.					
5.3	20	Lighting	Giavona Sullivan **(The Trump Organization)**			Open
	Description: Lighting Plan					
	Previous Meeting Minutes: **01/03/2018:** Lighting plan will not be changed per previous meeting 12/13/17, due to time and cost of change orders, the change order received from GS on 12/20/2017 show additional sconces (see PCCO #012)					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **01/03/2018:** *(None)*					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction. Final Grades still not established					
	Previous Meeting Minutes: **01/03/2018:** JCS is still waiting on this.					
7.2	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					

	Previous Meeting Minutes: **01/03/2018:** JCS has yet to receive these drawings for Construction/Pricing

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
8.2	20	PCCO #012	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Wall Sconces					
	Attachments: PCCO #012.pdf					
	Previous Meeting Minutes: **01/03/2018:** JG passed on to GS' . The change to original lighting will require another round of Energy Calcs by F&P.					
8.3	20	PCCO #011	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Millwork Samples					
	Attachments: PCCO #011.pdf					
	Previous Meeting Minutes: **01/03/2018:** JG passed on to GS'					
8.4	20	PCCO #010	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Changes to Cupola Framing Materials					
	Attachments: PCCO #010.pdf					
	Previous Meeting Minutes: **01/03/2018:** Reduced by JCS, open.					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Jan 9, 2018 at 06:43 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
No Spec Section	56	0	Light GA Connections	Document	Open	JCS Construction Group, Inc.	01/02/2018	Fiona Rooney	12/28/2017	Fiona Rooney (JCS Construction Group, Inc.)	Rainone, Ron (Hart Howerton)	Rejected	12/28/2017	01/05/2018	01/11/2018	
No Spec Section	54	1	Pro Shop Drawings	Shop Drawing	Open	JCS Millshop	12/22/2017	James Falk	12/15/2017	Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending	12/15/2017		12/29/2017	
No Spec Section	52	0	Brick	Product Information	Open	Gault Stone		Bryan Williamson		Fiona Rooney (JCS Construction Group, Inc.)	Rainone, Ron (Hart Howerton)	Approved As Noted	12/05/2017	12/19/2017	12/19/2017	
No Spec Section	42	0	Submittal for Sakarete Repairs		Open	Triple G		Eric Garrido		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending			10/25/2017	
06 4100 Architectural Wood Casework	19	5	Millwork Drawings	Shop Drawing	Open	JCS Millshop	01/04/2018	James Falk	01/04/2018	Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending	01/04/2018		01/18/2018	
08 1400 Wood Doors	18	2	Interior Doors	Shop Drawing	Open	Church Door	11/28/2017	Chuck Sweetman		Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending	12/08/2017		12/22/2017	

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Jan 9, 2018 at 06:43 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
56	Cupola Items	Open		Rainone, Ron (Har...	12/08/2017	Justin Shaw	12/11/2017		Shaw, Justin (JCS...				Yes (Unknown)	None
55	Translucent Glass Panels	Open		Sullivan, Giavona...	11/10/2017	Justin Shaw	11/13/2017		Shaw, Justin (JCS...					None
53	CFM Roof Framing Connection	Open	JCS Construction ...	Rainone, Ron (Har...	11/07/2017	Justin Shaw	11/10/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)
49	Leaders	Open	JCS Construction ...	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Har...	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JC...					Wiles, Craig (JCS Millshop)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...					Falk, James (JCS Millshop)
3	Door Hardware	Open	JCS Construction ...	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)

JCS | Construction Group, Inc.

Attendance 1/17/2018

Meeting #23

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 01/17/2018

MEETING TIME: 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Project Meeting 10-10-2018 1.m4a Project Meeting 1-10-18 2.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Kay Zias		Tel:	kay.zias@parks.nyc.gov
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept.					
	Previous Meeting Minutes: **01/10/2018:** *(None)*					

1.2	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/10/2018:** JCS has yet to receive these drawings for Construction/Pricing					
1.3	22	Permits	Joe Roediger			Open
	Description: Ownership to do this:					
	Previous Meeting Minutes: **01/10/2018:** Who submits to the Board of Health? Is a Cabaret Permit permit required? Public Assembly?					

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
2.1	18	SSDS Update	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **01/10/2018:** No SSDS update.					
2.2	22	Maser	Dave Keil **(Maser Consulting P.A.)**			Open
	Description: Maser to email DFRs to Kay and Steve. Soil importation is on hold until winter breaks.					
	Previous Meeting Minutes: **01/10/2018:** Maser to email DFRs to Kay and Steve. Soil importation is on hold until winter breaks.					

RESPONSIBLE PARTY

THIS IS ALL TAKEN CARE OF.

WEEKLY EROSION CONTROL REPORT SENT WEEKLY

NO PLANS. ANYTHING TRUCKS

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open
	Description: Review Submittal Log					
	Previous Meeting Minutes: **01/10/2018:** Ejector Pump needs to be signed off on by F&P Molding details provided, to be reviewed by GS on Friday. GS to determine location (highlight an RCP) and typical detail for all interior trim. Interactions of trim to be worked out in the field.					
3.2	1	Bluestone	Ron Rainone **(Hart Howerton)**			Open
	Description:					

TALK TO MARK ABOUT TWO WEEK LOOK AHEAD SCHEDULE.

	ET selected Bluestone thermal					
	Previous Meeting Minutes: **01/10/2018:** 24x24 samples were requested. To be presented to ET on Friday.					
3.3	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after receipt of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					
	Previous Meeting Minutes: **01/10/2018:** *(None)*					
3.5	13	Chandeliers/Fixtures				Open
	Description: Chandelier in Cupola: Logistics, cost, design: This was eliminated but JCS will still provide structural support in case Ownership wants a chandelier in the future. Decided on ballroom chandeliers, PCCO pending detail by ID/HH.					
	Previous Meeting Minutes: **01/10/2018:** In order to hang chandeliers in dining room JCS to add structural 2x laying on the bottom chord that we can run a threaded rod into it. Will need locations later but proceed with structural.GS to markup a RCP with locations of chandeliers Chandelier to hang from Cupola to be discussed with ET on Friday 1/12/18					
3.6	13	Carpet	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**			
	Previous Meeting Minutes: **01/10/2018:** Final specification and quantities still needed.					
3.7	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **01/10/2018:** Final specification still needed on hardware as well as the finish type for all door submittals Changes to door scope via 10/26/17 markups will be reviewed by JCS and presented as a CO.					
3.8	12	Pro Shop				
	Description: Interior Design: Pro-Shop shop drawings are rejected. Per ET the checkout cash-wrap will be m the right side, so as to protect direct line of site/view of the bridge.					
	Previous Meeting Minutes: **01/10/2018:** To be discussed with ET on Friday.					

3.10	19	Drawings for Exterior Changes	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **01/10/2018:** Exterior changes were approved by Parks but JCS has yet to receive these drawings for Construction/Pricing and will be building the back bar as per drawings received to date. The only change that Parks made was to the roof, which will be enclosed and have an inline fan because Parks didn't want to see the two vent holes. RR to provide updated drawings illustrating the exterior changes.					
3.11	19	Exterior Door Hardware	Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **01/10/2018:** *(None)*					
3.12	20	Cash Drop	Joe Roediger	12/ 20/ 2017		Open
	Description: Jewelry store-style cash-drop at comptroller's office					
	Previous Meeting Minutes: **01/10/2018:** Ownership to provide detail for pricing					
3.13	20	Radar at Cupola	Joe Roediger	12/ 20/ 2017		Open
	Description: Requirements will be provided by 12/20/2018 (AV, LV and what the roofer needs)					
	Previous Meeting Minutes: **01/10/2018:** *(None)*					
3.14	21	Brick	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: JCS to obtain less uniform/more tumbled looking brick					
	Previous Meeting Minutes: **01/10/2018:** JCS to obtain less uniform/more tumbled looking brick to be presented to ET for approval					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	21	RFI #53	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Bar room ceiling connection detail needed.					
	Previous Meeting Minutes: **01/10/2018:** JCS has yet to receive this detail					

JCS Construction Group, Inc.

Meeting #23

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	14	Plumbing Fixtures	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/10/2018:** Final specifications still needed					
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **01/10/2018:** Hernan to reiterate what he needs from Joe/F&P/HH/JCS: sprinkler hydraulic calculations from vendors. JCS was hoping to buy HVAC & Sprinkler together but all of the bids we have received show the expensive BMS system, which was VE'd. Drawings need to be revised by F&P to reflect the reduction and simplification of scope. Suggestion of conference call between F&P, TO, HH & JCS. Changes to HVAC venting on enclosed roof at exterior also needs to be detailed in drawings.					
5.3	20	Lighting	Giavona Sullivan **(The Trump Organization)**			Open
	Description: Lighting Plan					
	Previous Meeting Minutes: **01/10/2018:** GS to provide JG with specs on the additional 27 sconces who will then submit to F&P to ensure energy code compliance. If energy code is a non-issue, JCS may bring price down.					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **01/10/2018:** *(None)*					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open

	Description: JCS has yet to receive Civil drawings For Construction. Final Grades still not established					
	Previous Meeting Minutes: **01/10/2018:** JCS is still waiting on this.					
7.2	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					
	Previous Meeting Minutes: **01/10/2018:** JCS has yet to receive these drawings for Construction/Pricing. Front entry is still several weeks away from approval. The submission is several weeks away from being approved by DEC/DPW.					

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
8.2	20	PCCO #012	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Wall Sconces					
	Attachments: PCCO #012.pdf					
	Previous Meeting Minutes: **01/10/2018:** GS to provide the specs and details for the addition of 27 sconces so that JG can send to F&P to determine if energy recalculations are needed. This item will remain open until that time.					
8.3	20	PCCO #011	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Millwork Samples					
	Attachments: PCCO #011.pdf					
	Previous Meeting Minutes: **01/10/2018:** This CO will remain open and will encompass all millwork changes, including: interior trim, bar, pro-shop, locker rooms, drafting, excessive samples required in absence of control samples.					
8.4	20	PCCO #010	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Changes to Cupola Framing Materials					

	Attachments: PCCO #010.pdf
	Previous Meeting Minutes: **01/10/2018:** Reduced by JCS, open.

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Jan 16, 2018 at 05:38 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
62	Stair Plans	Open	Triple G	Rainone, Ron (Har...	01/16/2018	Fiona Rooney	01/17/2018		Rooney, Fiona (JC...					Garrido, Eric (Triple G)
61	Elevations and Detail requested	Open	Triple G	Rainone, Ron (Har...	01/16/2018	Fiona Rooney	01/19/2018		Rainone, Ron (Har...					GGG, tommy (Triple G)
60	Window Framing	Open	JCS Construction ...	Rainone, Ron (Har...	01/15/2018	Justin Shaw	01/18/2018		Rainone, Ron (Har...					None
59	Missing Beam for Trusses	Open	French & Parrello...	Rainone, Ron (Har...	01/10/2018	Fiona Rooney	01/13/2018		Rainone, Ron (Har...	At grid line F11	5 days		Yes (Unknown)	None
56	Cupola Items	Open		Rainone, Ron (Har...	12/08/2017	Justin Shaw	12/11/2017		Shaw, Justin (JCS...				Yes (Unknown)	None
55	Translucent Glass Panels	Open		Sullivan, Giavona...	11/10/2017	Justin Shaw	11/13/2017		Shaw, Justin (JCS...					None
53	CFM Roof Framing Connection	Open	JCS Construction ...	Rainone, Ron (Har...	11/07/2017	Justin Shaw	11/10/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)
49	Leaders	Open	JCS Construction ...	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Har...	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JC...					Wiles, Craig (JCS Millshop)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...					Falk, James (JCS Millshop)
3	Door Hardware	Open	JCS Construction ...	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Jan 16, 2018 at 05:38 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
No Spec Section	58	0	Plumbing Shops	Shop Drawing	Open	A&M Warshaw Plumbing & Heating		Cristine Bruno		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	01/10/2018		01/24/2018	
06 4100 Architectural Wood Casework	57	0	Cove Molding Details	Sample	Open	JCS Millshop		James Falk		Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending	01/10/2018		01/24/2018	
No Spec Section	56	0	Light GA Connections	Document	Open	JCS Construction Group, Inc.	01/02/2018	Fiona Rooney	12/28/2017	Fiona Rooney (JCS Construction Group, Inc.)	Rainone, Ron (Hart Howerton)	Rejected	12/28/2017	01/05/2018	01/11/2018	
No Spec Section	54	1	Pro Shop Drawings	Shop Drawing	Open	JCS Millshop	12/22/2017	James Falk	12/15/2017	Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending	12/15/2017		12/29/2017	
No Spec Section	52	1	Brick	Sample	Open	Gault Stone		Bryan Williamson		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending	01/16/2018 01/16/2018		01/17/2018	
06 4100 Architectural Wood Casework	47	2	Typical Molding Details	Shop Drawing	Open	JCS Millshop		James Falk		Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending			01/24/2018	
No Spec Section	42	0	Submittal for Sakarete Repairs		Open	Triple G		Eric Garrido		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending			10/25/2017	
06 4100 Architectural Wood Casework	19	5	Millwork Drawings	Shop Drawing	Open	JCS Millshop	01/04/2018	James Falk	01/04/2018	Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending	01/04/2018		01/18/2018	
08 1400 Wood Doors	18	2	Interior Doors	Shop Drawing	Open	Church Door	11/28/2017	Chuck Sweetman		Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending	12/08/2017		12/22/2017	

JCS Construction Group, Inc.

Meeting #24

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 01/24/2018 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Project Meeting #23 1-17-18.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Joe Conforti		Tel:	joe.conforti@parks.nyc.gov
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Kay Zias		Tel:	kay.zias@parks.nyc.gov
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept.					
	Previous Meeting Minutes: **01/17/2018:** JCS is still waiting on the drawings for construction, Joe Roediger is still waiting on Parks to submit something to him.					

	• Bar Hardware • Locker Room Concepts • Plumbing Shops • Cove Molding Details • Typical Molding Details GS to provide highlighted plan for desired location and detail for desired dimensions • Millwork Drawings (Bar Shops R8) • Interior Doors					
3.3	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after receipt of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					
	Previous Meeting Minutes: **01/17/2018:** Locker Concepts Bar finish sample rejected but no alternative provided Proshop drawings to be revised per ET comments Bar Drawings are open					
3.5	13	Chandeliers/Fixtures				Open
	Previous Meeting Minutes: **01/17/2018:** Chandelier in Cupola: Logistics, cost, design: This was eliminated but JCS will still provide structural support in case Ownership wants a chandelier in the future. Decided on ballroom chandeliers, PCCO pending detail by ID/HH					
3.6	13	Carpet	Giavona Sullivan **(The Trump Organization)**, John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/17/2018:** Final quantities still needed.					
3.7	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **01/17/2018:** Final specification still needed on hardware as well as the finish type for all door submittals Changes to door scope via 10/26/17 markups will be reviewed by JCS and presented as a CO.					
3.8	12	Pro Shop				Open
	Description: Interior Design: Pro-Shop shop drawings are rejected. Per ET the checkout cash-wrap will be moved from the center of the room to the right side, so as to protect direct line of site/view of the bridge.					

4.1	21	RFI #53	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Bar room ceiling connection detail needed.					
	Previous Meeting Minutes: **01/17/2018:** JCS has yet to receive this detail					
4.2	23	Missing Beam	Ron Rainone **(Hart Howerton)**	01/ 24/ 2018		Open
	Description: See RFI #59					
	Previous Meeting Minutes: **01/17/2018:** *(None)*					
4.3	23	Truss Issues	Ron Rainone **(Hart Howerton)**	01/ 26/ 2018	High	Open
	Description: T5B T64					
	Previous Meeting Minutes: **01/17/2018:** Issues related to these trusses were discussed, further investigation to be done in feild					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	14	Plumbing Fixtures	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/17/2018:** Final specifications still needed					
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **01/17/2018:** JCS has yet to receive these updates reflecting the changes to HVAC venting on enclosed roof at exterior.					
5.3	20	Lighting	Giavona Sullivan **(The Trump Organization)**			Open
	Description: Lighting Plan					

	Wall Sconces					
	Attachments: PCCO #012.pdf					
	Previous Meeting Minutes: **01/17/2018:** *(None)*					
8.3	20	PCCO #011	John Gruber **(Trump Ferry Point LLC)**			Open
	Attachments: PCCO #011.pdf					
	Previous Meeting Minutes: **01/17/2018:** Millwork Bar Change Order					
8.4	20	PCCO #010	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Changes to Cupola Framing Materials					
	Attachments: PCCO #010.pdf					
	Previous Meeting Minutes: **01/17/2018:** *(None)*					

- DAILY REPORT TO
WEEKLY EROSION CONTROL REPORT
- DEMOLITION OF SOIL MIXER
LOCATION MODIFICATIONS
- SOIL SEPARATE TO ASSUME
IN 2 LOCATIONS.

JCS Construction Group, Inc.

Meeting #25

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 01/31/2018 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

QUESTION TO OTHER RE:
ANY ADDITIONAL SAMPLING OF SOIL FROM NY REQUIRE?

ATTACHMENTS:

Project Meeting #24 1-24-18.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Joe Conforti		Tel:	joe.conforti@parks.nyc.gov
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Kay Zias		Tel:	kay.zias@parks.nyc.gov
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open

Description:
Approved by Parks:

1. Relocation of outdoor kitchen on North Terrace;
2. Addition of V-groove paneled screen wall, which will be 4'-6" tall across its length, and rectilinear in profile;
3. Addition of 4" x 12" subway tile, in white sample color submitted for review, on southern wall of outdoor kitchen;

	Previous Meeting Minutes: **01/24/2018:** *(None)*					
3.3	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after receipt of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					
	Previous Meeting Minutes: **01/24/2018:** • Locker Concepts • Bar finish sample rejected but no alternative provided • ProShop drawings to be revised per ET comments. JCS to issue a false ProShop submittal revision so that GS can respond with Terry's ProShop design response. • Bar Drawings are open • Cove detail: double cove is 1 5/8, does this require two pieces of grounds? This submittal will remain open until JCS receives the highlighted plan with three different colors from GS. • JCS to reissue the unanswered/open cove Submittal SK1-5 dated 11/28/17 • Stainless Steel footrail • GS to pick out knobs and pulls & add this as a response to submittal #60.					
3.5	13	Chandeliers/Fixtures				Open
	Previous Meeting Minutes: **01/24/2018:** Chandelier in Cupola: Logistics, cost, design: This was eliminated but JCS will still provide structural support in case Ownership wants a chandelier in the future. Decided on ballroom chandeliers, PCCO pending detail by ID/HH					
3.6	13	Carpet	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **01/24/2018:** Final quantities still needed.					
3.7	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **01/24/2018:** Final specification still needed on hardware as well as the finish type for all door submittals Changes to door scope via 10/26/17 markups will be reviewed by JCS and presented as a CO.					
3.8	12	Pro Shop				Open
	Previous Meeting Minutes: **01/24/2018:** Interior Design: Pro-Shop shop drawings are rejected. Per ET the checkout cash-wrap will be moved from the center of the room to the right side, so as to protect direct line of site/view of the bridge. GS to provide new design to JCS for pricing and shop drawings					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	21	RFI #53	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Bar room ceiling connection detail needed.					
	Previous Meeting Minutes: **01/24/2018:** JCS has yet to receive this detail					
4.2	23	Missing Beam	Ron Rainone **(Hart Howerton)**	01/ 24/ 2018		Open
	Description: See RFI #59					
	Previous Meeting Minutes: **01/24/2018:** JCS still waiting on this					
4.3	23	Truss Issues	Ron Rainone **(Hart Howerton)**	01/ 26/ 2018	High	Open
	Description: T5B T64					
	Previous Meeting Minutes: **01/24/2018:** Further investigation to be done in feild					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	14	Plumbing Fixtures	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/24/2018:** JCS was told that they would receive this detail by EOW					
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **01/24/2018:** JCS has yet to receive these updates reflecting the changes to HVAC venting on enclosed roof at exterior. Hernan Rojas to attend next week's meeting.					

JCS Construction Group, Inc.

Meeting #25

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
8.2	20	PCCO #012	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Wall Sconces					
	Attachments: PCCO #012.pdf					
	Previous Meeting Minutes: **01/24/2018:** Will remain open for final spec/energy calculation deliberations					
8.3	20	PCCO #011	John Gruber **(Trump Ferry Point LLC)**			Open
	Attachments: PCCO #011.pdf					
	Previous Meeting Minutes: **01/24/2018:** Millwork Bar Change Order to remain open for approval					
8.4	20	PCCO #010	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Changes to Cupola Framing Materials					
	Attachments: PCCO #010.pdf					
	Previous Meeting Minutes: **01/24/2018:** Will remain open for approval.					
8.5	24	PCCO #014	John Gruber **(Trump Ferry Point LLC)**	01/ 23/ 2018	High	Open
	Description: PCCO for Door Changes via 10/26/17 redlines by HH.					
	Previous Meeting Minutes: **01/24/2018:** *(None)*					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Jan 30, 2018 at 06:04 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
65	Dining room	Open	Atkins Construction	Rainone, Ron (Har...	01/26/2018	Mark Smithson	01/29/2018		Smithson, Mark (J...					Smithson, Mark (JCS Construction Group, Inc.)
59	Missing Beam for Trusses	Open	French & Parrello...	Rainone, Ron (Har...	01/10/2018	Fiona Rooney	01/13/2018		Rooney, Fiona (JC...	At grid line F11	5 days		Yes (Unknown)	None
56	Cupola Items	Open		Rainone, Ron (Har...	12/08/2017	Justin Shaw	12/11/2017		Shaw, Justin (JCS...				Yes (Unknown)	None
55	Translucent Glass Panels	Open		Sullivan, Giavona...	11/10/2017	Justin Shaw	11/13/2017		Shaw, Justin (JCS...					None
53	CFM Roof Framing Connection	Open	JCS Construction ...	Rainone, Ron (Har...	11/07/2017	Justin Shaw	11/10/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)
49	Leaders	Open	JCS Construction ...	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...					Falk, James (JCS Millshop)
3	Door Hardware	Open	JCS Construction ...	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)

JCS Construction Group, Inc.

Meeting #26

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 02/07/2018

MEETING TIME: 1:00 PM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW: SSDS meeting of 2/12/2018

ATTACHMENTS: Status Quo for soil importation

ATTENDEES:

Name	Company	Phone Number	Email
David Cerron		Tel: (212) 360-3457	david.cerron@parks.nyc.gov
Joe Conforti		Tel:	joe.conforti@parks.nyc.gov
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open

Description:
Approved by Parks:

1. Relocation of outdoor kitchen on North Terrace;
2. Addition of V-groove paneled screen wall, which will be 4'-6" tall across its length, and rectilinear in profile;
3. Addition of 4" x 12" subway tile, in white sample color submitted for review, on southern wall of outdoor kitchen;
4. Revision of dormer above outdoor kitchen to include intake and exhaust louvers.
5. Alteration of entry stairs at West Elevation to run straight instead of being accessible at an angle;

	6. Removal of plan bump-out at exterior wall behind Bar in Grill Room; 7. Change from Anderson A-Series windows to Pella Windows; 8. Change of operable doors (between gridlines F.5 and F.12, 5.1 and 5.5) to fixed units; 9. Introduction of interior "black-out" panels behind specified windows at Bar and in Mechanical and Electrical room					
	Previous Meeting Minutes: **01/31/2018:** JCS to obtain pricing on items 1-6, 8-9 Team discussed means by which the blacked out windows would be lit, which is necessary to know before blacking out the windows. JG/GS to issue this detail within the lighting package. Lighting consultant should be brought onto team. JCS to find out if Sam Tell will file for the ansel system on their own, or provide documents to Hernan to file JCS received subway tile control sample					
1.2	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/31/2018:** The front entry way is still not approved					

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
2.1	18	SSDS Update	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **01/31/2018:** SSDS to come back in the next couple weeks, simultaneous to rough-ins.					
2.2	22	Maser	Dave Keil **(Maser Consulting P.A.)**			Open
	Previous Meeting Minutes: **01/31/2018:** **Civil:** Maser to email DFRs to Kay and Steve.					

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open
	Description: Review Submittal Log					
	Previous Meeting Minutes: **01/31/2018:** *(None)*					
3.3	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after receipt of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					

	Previous Meeting Minutes: **01/31/2018:** Verbal approval on interior trim Footrail approved GS provided JCS with a new control sample for interior millwork Locker room wood to be stain grade not paint grade JG and GS to present and discuss ProShop pricing and Bar change order with ET tomorrow as he has been traveling for the past two weeks					
3.5	13	Chandeliers/Fixtures				Open
	Previous Meeting Minutes: **01/31/2018:** JG and GS to provide engineered lighting package for pricing					
3.6	13	Carpet	Giavona Sullivan **(The Trump Organization)**, John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/31/2018:** Final quantities still needed.					
3.7	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **01/31/2018:** Carried over from 1/24/18: Final specification still needed on hardware as well as the finish type for all door submittals Changes to door scope via 10/26/17 markups will be reviewed by JCS and presented as a CO.					
3.8	12	Pro Shop				Open
	Previous Meeting Minutes: **01/31/2018:** JCS awaits ProShop Pricing approval in order to proceed					
3.10	19	Drawings for Exterior Changes	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **01/31/2018:** Received					
3.11	19	Exterior Door Hardware	Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **01/31/2018:** Final specification still needed					

3.13	20	Radar at Cupola	Joe Roediger	12/ 20/ 2017		Open
	Description: Requirements will be provided by 12/20/2018 (AV, LV and what the roofer needs)					
	Previous Meeting Minutes: **01/31/2018:** *(None)*					
3.14	21	Brick	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/31/2018:** *(None)*					
3.15	23	Attic Windows	Ron Rainone **(Hart Howerton)**	01/ 31/ 2018		Open
	Description: See RFI #64					
	Previous Meeting Minutes: **01/31/2018:** Pending resolution of lighting issue					
3.16	24	Appliance Revisions	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Final Specifications/Changes still needed					
	Previous Meeting Minutes: **01/31/2018:** JCS to ascertain whether Sam Tell will file for their ansul system or provide Hernan Rojas with the documents to file for them					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	21	RFI #53	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Bar room ceiling connection detail needed.					
	Previous Meeting Minutes: **01/31/2018:** *(None)*					
4.2	23	Missing Beam	Ron Rainone **(Hart Howerton)**	01/ 24/ 2018		Open
	Description: See RFI #59					
	Previous Meeting Minutes: **01/31/2018:** *(None)*					
4.3	23	Truss Issues	Ron Rainone **(Hart Howerton)**	01/ 26/ 2018	High	Open

	Description: T5B T64
	Previous Meeting Minutes: **01/31/2018:** *(None)*

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	14	Plumbing Fixtures	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/31/2018:** JCS was told that they would receive this detail by EOW					
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **01/31/2018:** *(None)*					
5.3	20	Lighting	Giavona Sullivan **(The Trump Organization)**			Open
	Description: Lighting Plan					
	Previous Meeting Minutes: **01/31/2018:** - GS to provide JG with specs on the additional 27 sconces who will then submit to F&P to ensure energy code compliance. If energy code is a non-issue, JCS may bring price down. - Bollards - Uplighting on exterior - Final lighting package still needed - Attic/blackout window lighting - Ceiling mounted fixtures					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **01/31/2018:** Plumbing (waiting on Fixture schedule) Electric Roughs Mason ongoing					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction. Final Grades still not established					
	Previous Meeting Minutes: **01/31/2018:** JCS is still waiting on this.					
7.2	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					
	Previous Meeting Minutes: **01/31/2018:** JCS has yet to receive these drawings for Construction/Pricing. Front entry is still several weeks away from approval. The submission is several weeks away from being approved by DEC/DPW					

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
8.2	20	PCCO #012	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Wall Sconces					
	Attachments:					
	Previous Meeting Minutes: **01/31/2018:** Will remain open for final spec/energy calculation deliberations					
8.3	20	PCCO #011	John Gruber **(Trump Ferry Point LLC)**			Open
	Attachments:					
	Previous Meeting Minutes: **01/31/2018:** Millwork Bar Change Order to remain open for approval					

8.4	20	PCCO #010	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Changes to Cupola Framing Materials					
	Attachments:					
	Previous Meeting Minutes: **01/31/2018:** • Will remain open for approval.					
8.5	24	PCCO #014	John Gruber **(Trump Ferry Point LLC)**	01/ 23/ 2018	High	Open
	Description: PCCO for Door Changes via 10/26/17 redlines by HH.					
	Previous Meeting Minutes: **01/31/2018:** • Will remain open for approval.					

JCS Construction Group Inc

Printed on Wed Feb 7, 2018 at 11:37 am EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
06 6500 Simulated Wood Trim	65	0	Exterior Corbels	Shop Drawing	Open	JCS Millshop		James Falk		John Gruber (Trump Ferry Point LLC) Ron Rainone (Hart Howerton)	Gruber, John (Trump Ferry Point LLC) Rainone, Ron (Hart Howerton)	Pending Pending	02/05/2018 02/05/2018		02/07/2018	
07 2100 Thermal Insulation	64	0	Fiberglass Insulation	Product Manual	Open	JCS Construction Group, Inc.	02/07/2018	Fiona Rooney	02/05/2018	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	02/05/2018		02/07/2018	
07 2100 Thermal Insulation	62	0	Rigid Insulation	Product Information	Open	JCS Construction Group, Inc.	02/07/2018	Fiona Rooney	02/05/2018	Fiona Rooney (JCS Construction Group, Inc.)	Rainone, Ron (Hart Howerton)	Approved As Noted	02/05/2018	02/07/2018	02/07/2018	
No Spec Section	61	0	Denseglass Sheathing	Product Information	Open	JCS Construction Group, Inc.	02/07/2018	Fiona Rooney	02/05/2018	Fiona Rooney (JCS Construction Group, Inc.)	Rainone, Ron (Hart Howerton)	Approved As Noted	02/05/2018	02/06/2018	02/07/2018	
06 4100 Architectural Wood Casework	19	6	Millwork Drawings	Shop Drawing	Open	JCS Millshop	01/04/2018	James Falk		John Gruber (Trump Ferry Point LLC)	Sullivan, Giavona (The Trump Organization) Gruber, John (Trump Ferry Point LLC)	Approved As Noted Pending	01/23/2018	01/24/2018	02/07/2018	

JCS Construction Group Inc

Printed on Wed Feb 7, 2018 at 11:36 am EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
69	Plumbing Fixtures	Open	A&M Warshaw Plumb...	Gruber, John (Tru...	02/06/2018	Fiona Rooney	02/09/2018		Gruber, John (Tru...					Warshaw, Mike (A&M Warshaw Plumbing & Heating)
68	Lighting Plan	Open	JCS Construction ...	Gruber, John (Tru...	02/06/2018	Fiona Rooney	02/09/2018		Gruber, John (Tru...		Yes (Unknown)		Yes (Unknown)	Rooney, Fiona (JCS Construction Group, Inc.)

Q: Fiona Rooney Sent Tue Feb 6, 2018 at 08:48 am EST
Please send the missing items in the plumbing schedule. This includes the water fountain, urinal and mop sink, and please go over the full package and make sure nothing else is missing.

Q: Fiona Rooney Sent Tue Feb 6, 2018 at 08:46 am EST
Please advise on the status of the lighting plan:

Interior:
Lighting detail for blacked out windows
Sconces
Ceiling-mounted fixtures

Exterior: Bollards
Uplighting on building facade

Q: Mark Smithson Sent Fri Jan 26, 2018 at 10:46 am EST
Please provide detail for the cross section in the 4 locations.

A: Ron Rainone (Hart Howerton) Responded Tue Jan 30, 2018 at 10:02 pm UTC
See attached sketches for the requested Dining Room Ceiling Details. Work these details with submittal package 46.2 provided by JCS.

Q: Justin Shaw Sent Fri Dec 8, 2017 at 12:03 pm EST
At yesterday's meeting a chandelier hanging from cupola was discussed as was mounting of a camera outside on the top. I believe both of these will need to be detailed and cleared by structural engineer.

A: Justin Shaw (JCS Construction Group, Inc.) Responded Fri Dec 8, 2017 at 10:59 pm UTC
These details will need to be provided by Owner and this RFI shall remain open until it is completed. Thanks

A: Ron Rainone (Hart Howerton) Responded Fri Dec 8, 2017 at 09:50 pm UTC
Please provide sketch of desired location of chandelier, hanging type and whether it will be on a motor (otherwise forget about changing bulbs). Also provide fixture product cut, dimensions and weight. The camera detailing is not our dicipline and needs to be done by A/V or security vendor.

Q: Justin Shaw Sent Tue Nov 7, 2017 at 04:05 pm EST
Please provide a connection detail from the C joists to the metal framing for the upper roof area.

A: Justin Shaw (JCS Construction Group, Inc.) Responded Wed Dec 6, 2017 at 06:23 pm UTC
I mean bar room ceiling.

A: Ron Rainone (Hart Howerton) Responded Fri Nov 10, 2017 at 05:26 pm UTC
See attached response from structural engineer.

INSTALLED NEW SILT FENCE

JCS Construction Group, Inc.

Meeting #27

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 02/14/2018 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Project Meeting 26 (1-3).m4a Project Meeting 26 (3-3).m4a Project Meeting 26 (2-3).m4a

ATTENDEES:

Name	Company	Phone Number	Email
David Cerron		Tel: (212) 360-3457	david.cerron@parks.nyc.gov
Joe Conforti		Tel:	joe.conforti@parks.nyc.gov
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open

Description:
Approved by Parks:

1. Relocation of outdoor kitchen on North Terrace;
2. Addition of V-groove paneled screen wall, which will be 4'-6" tall across its length, and rectilinear in profile;
3. Addition of 4" x 12" subway tile, in white sample color submitted for review, on southern wall of outdoor kitchen;
4. Revision of dormer above outdoor kitchen to include intake and exhaust louvers.
5. Alteration of entry stairs at West Elevation to run straight instead of being accessible at an angle;

	Previous Meeting Minutes: **02/07/2018:** Bar Back bar Lighting and hardware submissions Pro Shop One-single transaction desk-mahogany finish One-back of check in desk-mahogany finish One-double height 24' long men's clothing display-mahogany finish Two-hat etageres with drawers-decorative two tone painted finish Four-accessory etageres with drawers-decorative two tone painted finish Two-shoe tables with no drawers- decorative two tone painted finish Three-nested table sets (two tables per nest) - decorative two tone painted finish Two-club fixtures- decorative two tone painted finish Pro office shelving-details to be determined Built in dressing room bench-details to be determined Locker Rooms Attendant area Women's shower area Women's north wall Men's south wall Exterior Solid PVC louver Flared gable lower fronts					
3.3	13	Chandeliers/Fixtures				Open
	Previous Meeting Minutes: **02/07/2018:** JG and GS to provide engineered lighting package for pricing					
3.4	13	Carpet	Giavona Sullivan **(The Trump Organization),** John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **02/07/2018:** Final quantities still needed.					
3.5	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **02/07/2018:** Carried over from 1/24/18: Final specification still needed on hardware as well as the finish type for all door submittals Changes to door scope via 10/26/17 markups will be reviewed by JCS and presented as a CO.					
3.6	12	Pro Shop				Open

	Previous Meeting Minutes: **02/07/2018:** Per JS, RR to provide additional details					
4.3	23	Truss Issues	Ron Rainone **(Hart Howerton)**	01/ 26/ 2018	Medium	Open
	Description: T5B T64					
	Previous Meeting Minutes: **02/07/2018:** Ongoing					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **02/07/2018:** JCS is still waiting on this.					
5.3	20	Lighting	Giavona Sullivan **(The Trump Organization)**			Open
	Description: Lighting Plan					
	Previous Meeting Minutes: **02/07/2018:** - GS to provide JG with specs on the additional 27 sconces who will then submit to F&P to ensure energy code compliance. If energy code is a non-issue, JCS may bring price down. - Bollards - Uplighting on exterior - Final lighting package still needed - Attic/blackout window lighting - Ceiling mounted fixtures Per JG, hi hats will remain per plan and not be replaced with ceiling mounted fixtures per prior discussion. There is no plan to get an interior lighting consultant or revised RCPs.					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open

	Description: Wall Sconces					
	Attachments: PCCO #012.pdf					
	Previous Meeting Minutes: **02/07/2018:** Will remain open for final spec/energy calculation deliberations					
8.3	20	PCCO #011	John Gruber **(Trump Ferry Point LLC)**			Open
	Attachments: PCCO #011.pdf					
	Previous Meeting Minutes: **02/07/2018:** Millwork Bar Change Order to remain open for approval					
8.4	20	PCCO #010	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Changes to Cupola Framing Materials					
	Attachments: PCCO #010.pdf					
	Previous Meeting Minutes: **02/07/2018:** Will remain open for approval.					
8.5	24	PCCO #014	John Gruber **(Trump Ferry Point LLC)**	01/ 23/ 2018	High	Open
	Description: PCCO for Door Changes via 10/26/17 redlines by HH.					
	Previous Meeting Minutes: **02/07/2018:** • Will remain open for approval.					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Feb 13, 2018 at 04:47 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
07 7200 Roof Accessories	70	0	PD10 Snowguards	Product Information	Open	J&C Building Renovations LLC		Cezary Bartosiewicz		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	02/12/2018		02/14/2018	
06 4100 Architectural Wood Casework	69	0	Louvered Panel	Shop Drawing	Open	JCS Millshop		James Falk		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	02/12/2018		02/16/2018	
No Spec Section	60	0	Bar Hardware	Product Information	Open	JCS Millshop	01/26/2018	James Falk	01/23/2018	Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization) Rainone, Ron (Hart Howerton)	Pending Pending	01/23/2018		01/26/2018	
06 4100 Architectural Wood Casework	19	6	Millwork Drawings	Shop Drawing	Open	JCS Millshop	01/04/2018	James Falk		John Gruber (Trump Ferry Point LLC)	Sullivan, Giavona (The Trump Organization) Gruber, John (Trump Ferry Point LLC)	Approved As Noted Pending	01/23/2018	01/24/2018	02/07/2018	
09 3033 Stone Tiling	16	2	Bluestone Patio Stone	Document	Open	WESTCHESTER MASONRY DEPOT				Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	02/13/2018		02/16/2018	

JCS | Construction Group, LLC

TWO-WEEK LOOK AHEAD

February 14th 2018

Project Name: Ferry Point **Job # 16-031** **Weekly Project Meeting Wednesday 10AM**

ACTIVITY	Week 1							Week 2							Comments
DATE:	Mon 2/12	Tues 2/13	Wed 2/14	Thu 2/15	Fri 2/16	Sat 2/17	Sun 2/18	Mon 2/19	Tues 2/20	Wed 2/21	Thu 2/22	Fri 2/23	Sat 2/24	Sun 2/25	
Rebar	x							x		x					Ramps
Concrete	x							x							Front entry/ Maser scheduled
Plumbing	x	x	x	x	x			x	x	x	x	x			Roughings
Electric	x	x	x	x	x			x	x	x	x	x			Roughings
Roof	x	x	x	x	x	x		x	x		x	x	x		
Framing	x	x	x	x	x	x		x	x	x	x	x	x		Cupola, dining room, interior, windows
Mason	x	x	x	x	x	x		x	x	x	x	x	x		Patio area
EAI															

44 Homestead Avenue, Stamford, CT 06902 t:(203) 485-9612 f:(203) 724-3884

JCS Construction Group, Inc.

Meeting #29

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 02/28/2018 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Project Meeting 28.m4a

ATTENDEES:

Name	Company	Phone Number	Email
David Cerron		Tel: (212) 360-3457	david.cerron@parks.nyc.gov
Joe Conforti		Tel:	joe.conforti@parks.nyc.gov
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com
Quinton Davis	Maser Consulting P.A.	Tel:	qdavis@maserconsulting.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Giavona Sullivan	The Trump Organization	Tel:	gsulllvan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open

Previous Meeting Minutes:

02/21/2018:
This item will remain open until Mockup of Window Blackout detail is complete: there is no lighting behind the windows AS YET due to absence of any lighting plan, RCP, energy calculations etc.
Will radar installation require PDC approval?

1.2	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **02/21/2018:** Per JG, after Materials and design for the front entry are approved by PDC, the TO will commission an EXTERIOR lighting plan. Open Items Include: Drainage Belgian Blok Path Dimensions/Turning Radius Grades Lighting Plan					

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
2.1	18	SSDS Update	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **02/21/2018:** Previous changes to SSDS system were resolved via RFI and PCCO #013. All deviations from approved shops will be indicated in as-builts.					
2.2	22	Maser	Dave Keil **(Maser Consulting P.A.)**			Open
	Previous Meeting Minutes: **02/21/2018:** All Maser to email DFRs to Kay and Steve.					

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open
	Description: Review Submittal Log					
	Previous Meeting Minutes: **02/21/2018:** *(None)*					
3.2	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after receipt of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					
	Previous Meeting Minutes: **02/21/2018:** Bar Back bar Lighting and hardware submissions Locker Rooms Attendant area Women's shower area					

	Women's north wall Men's south wall Exterior Solid PVC louver					
3.3	13	Chandeliers/Fixtures				Open
	Previous Meeting Minutes: **02/21/2018:** GS to provide dimensioned ceiling plan for chandelier locations					
3.4	13	Carpet	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **02/21/2018:** *(None)*					
3.5	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **02/21/2018:** Interior Door scope and submittal to be revised per changes by TO.					
3.6	12	Pro Shop				Open
	Previous Meeting Minutes: **02/21/2018:** Proshop has been removed from JCS scope and will be backed out of contract via credit PCCO					
3.7	19	Drawings for Exterior Changes	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **02/21/2018:** JCS awaits PDC approval and direction on landscape.					
3.8	19	Exterior Door Hardware	Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **02/21/2018:** Final specification still needed					
3.10	23	Attic Windows	Ron Rainone **(Hart Howerton)**	01/ 31/ 2018		Open
	Description: See RFI #64					

	Previous Meeting Minutes: **02/21/2018:** *(None)*					
3.11	24	Appliance Revisions	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Final Specifications/Changes still needed. JCS received Shop Drawings, waiting on kitchen change order package to be broken out by Sam Tell					
	Previous Meeting Minutes: **02/21/2018:** Per Arthur Fisher, there are upcoming changes. TO to clarify					
3.12	29	Foil/FSK-Faced vs Unfaced Batting	Ron Rainone **(Hart Howerton)**	02/ 28/ 2018		Open
	Description: The drawings do not call for Foil Faced but per: Spec Section: 07 2100 - Thermal Insulation Submittal #: 64.0 Title: Fiberglass Insulation FSK: Additional $14,0000.00 Foil:Additional $10,000.00					
	Attachments: 300 Hutchinson FSK River Parkway Bronx, New York 10465. (Arl.- 3-7.5).pdf 300 Hutchinson Foil River Parkway Bronx, New York 10465. (Arl.- 3-7.5).pdf					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	21	RFI #53	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Bar room ceiling connection detail needed.					
	Previous Meeting Minutes: **02/21/2018:** JCS is still waiting on this.					
4.2	23	Missing Beam	Ron Rainone **(Hart Howerton)**	01/ 24/ 2018		Open
	Description: See RFI #59					
	Previous Meeting Minutes: **02/21/2018:** Per JS, RR to provide additional details					
4.3	23	Truss Issues	Ron Rainone **(Hart Howerton)**	01/ 26/ 2018	Medium	Open
	Description: T5B T64					

	Previous Meeting Minutes: **02/21/2018:** *(None)*					
4.4	27	Roof Bump Out	Ron Rainone **(Hart Howerton)**			Open
	Description: See attached photo					
	Attachments: 54075827858__EEE54269-2E7B-43E7-89D4-610711281954.jpeg					
	Previous Meeting Minutes: **02/21/2018:** *(None)*					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **02/21/2018:** JCS is still waiting on this.					
5.3	20	Lighting	Giavona Sullivan **(The Trump Organization)**			Open
	Description: Lighting Plan					
	Previous Meeting Minutes: **02/21/2018:** *(None)*					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **02/21/2018:** *(None)*					
6.2	26	Schedule Delay	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**	02/ 01/ 2018	High	Open
	Previous Meeting Minutes: **02/21/2018:**					

All open change orders and lack of approvals on the follow will incur corresponding schedule delays:
Interior doors package
Dining room ceiling
Bar
Lighting plan: JG to send comprehensive delineation of the lighting plan scope by TO and JCS. Including specs for recessed downlights. Which fixtures are by owner? Does the quantity stay the same? Added lights will be $105/recessed and $70/box labor if TO provides fixture.

According to JG, the plan is to hold all change orders until the team has one, comprehensive change order "package" (ie: HVAC, doors, millwork, PDC exterior package, lighting plan, etc) to present to ET for approval. As pointed out by JR, this desire to adhere to protocol will exacerbate delays in schedule

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **02/21/2018:** Due to open Exterior PDC submission, JCS has yet to receive Civil drawings For Construction and final Grades are still not established					
7.2	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					
	Previous Meeting Minutes: **02/21/2018:** Due to open Exterior PDC submission, JCS has yet to receive these drawings for Construction/Pricing.					
7.3	27	Telecom	John Gruber **(Trump Ferry Point LLC)**	02/ 21/ 2018		Open
	Description: Earthwork					
	Previous Meeting Minutes: **02/21/2018:** Backcharge for damage to conduit to be backcharged to Atlas. JCS received one of two invoices for the BC. Credit to be issued through PCCO. American Integrated Security Group was in attendance to discuss the radar at cupola and consult on suggested means of pricing, powering and installing this item. Lightning Protection is desired by TO and requires the use of the highest point, which is the desired location for the radar due to maximum visibility, but the lightning Protection is pointless if not at peak. Is threaded rod enough support for lightning protection?					

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
8.2	20	PCCO #012	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Interior Lighting					

	Attachments: PCCO #012.pdf					
	Previous Meeting Minutes: **02/21/2018:** JCS received a partial lighting plan from TO showing desired locations. No energy calculations have been provided as of today because, per JG engineered lighting plan is not required if we are replacing in kind but we are not because there are additional lights at the bar, at the proshop ceiling, recessed downlights, window backlighting, etc.					
8.3	20	PCCO #011	John Gruber (**Trump Ferry Point LLC**)			Open
	Attachments: PCCO #011.pdf					
	Previous Meeting Minutes: **02/21/2018:** Millwork Bar Change Order to remain open for approval					
8.4	20	PCCO #010	John Gruber (**Trump Ferry Point LLC**)	01/ 02/ 2018	High	Open
	Description: Changes to Cupola Framing Materials					
	Attachments: PCCO #010.pdf					
	Previous Meeting Minutes: **02/21/2018:** Will remain open for approval.					
8.5	24	PCCO #014	John Gruber (**Trump Ferry Point LLC**)	01/ 23/ 2018	High	Open
	Description: PCCO for Door Changes					
	Previous Meeting Minutes: **02/21/2018:** Will remain open for further shop drawings review and potential reduction of scope.					
8.6	27	PCCO #15	Joe Roediger	02/ 21/ 2018		Open
	Description: APPROVED					
	Previous Meeting Minutes: **02/21/2018:** *(None)*					
8.7	27	PCCO #016	John Gruber (**Trump Ferry Point LLC**)	02/ 21/ 2018		Open
	Description: Changes to the Dormer per A3.02					

	Previous Meeting Minutes: **02/21/2018:** APPROVED					
8.8	27	PCCO #017	John Gruber **(Trump Ferry Point LLC)**	02/ 21/ 2018		Open
	Description: Lighting Protection					
	Previous Meeting Minutes: **02/21/2018:** Will remain open for approval.					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Wed Feb 28, 2018 at 09:58 am EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact
3	Door Hardware	Open	JCS Construction ...	Shaw, Justin (JCS Construction Group, Inc.)	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...				
19	JCS Millshop RFI #1	Open	JCS Millshop	Falk, James (JCS Millshop)	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...				
49	Leaders	Open	JCS Construction ...	Shaw, Justin (JCS Construction Group, Inc.)	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...				
53	CFM Roof Framing Connection	Open	JCS Construction ...	Shaw, Justin (JCS Construction Group, Inc.)	Rainone, Ron (Har...	11/07/2017	Justin Shaw	11/10/2017		Shaw, Justin (JCS...				
56	Cupola Items	Open		None	Rainone, Ron (Har...	12/08/2017	Justin Shaw	12/11/2017		Shaw, Justin (JCS...				Yes (Unknown)
59	Missing Beam for Trusses	Open	French & Parrello...	None	Rainone, Ron (Har...	01/10/2018	Fiona Rooney	01/13/2018		Rooney, Fiona (JC...	At grid line F11	5 days		Yes (Unknown)
68	Lighting Plan	Open	JCS Construction ...	Rooney, Fiona (JCS Construction Group, Inc.)	Gruber, John (Tru...	02/06/2018	Fiona Rooney	02/09/2018		Rooney, Fiona (JC...		Yes (Unknown)		Yes (Unknown)
72	electric RFI	Open	Linphill Electric...	Perez, Eddie (Linphill Electrical Contractors)	Gruber, John (Tru...	02/21/2018	Fiona Rooney	02/24/2018		Gruber, John (Tru...				
73	Rowlock	Open		None	Rainone, Ron (Har...	02/21/2018	Fiona Rooney	02/24/2018		Rainone, Ron (Har...				
75	Trump Links Gas Usage	Open	A&M Warshaw Plumb...	Bruno, Cristine (A&M Warshaw Plumbing & Heating)	Rainone, Ron (Har...	02/26/2018	Fiona Rooney	03/01/2018		Rainone, Ron (Har...				
76	Exterior Trim Louver	Open	JCS Construction ...	Shaw, Justin (JCS Construction Group, Inc.)	Rainone, Ron (Har...	02/28/2018	Fiona Rooney	03/03/2018		Rainone, Ron (Har...				
77	Foil/FSK-Faced vs Unfaced Batting	Open	Energy Spray Syst...	None	Rainone, Ron (Har...	02/28/2018	Fiona Rooney	03/03/2018		Rainone, Ron (Har...				Yes (Unknown)

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Wed Feb 28, 2018 at 09:57 am EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
No Spec Section	72	0	Captive Aire		Open	Sam Tell Companies	03/02/2018	Arthur Fisher	02/23/2018	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	02/23/2018		03/09/2018	
No Spec Section	60	0	Bar Hardware	Product Information	Open	JCS Millshop	01/26/2018	James Falk	01/23/2018	Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization) Rainone, Ron (Hart Howerton)	Pending Pending	01/23/2018		01/26/2018	
No Spec Section	59	1	Locker Room Concepts	Shop Drawing	Open	JCS Millshop	02/28/2018	James Falk		Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending	02/21/2018		02/28/2018	
06 4100 Architectural Wood Casework	19	6	Millwork Drawings	Shop Drawing	Open	JCS Millshop	01/04/2018	James Falk		John Gruber (Trump Ferry Point LLC)	Sullivan, Giavona (The Trump Organization) Gruber, John (Trump Ferry Point LLC)	Approved As Noted Pending	01/23/2018	01/24/2018	02/07/2018	

JCS Construction Group, Inc.

Meeting #31

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 03/14/2018 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Project Meeting #30.m4a

ATTENDEES:

Name	Company	Phone Number	Email
David Cerron		Tel: (212) 360-3457	david.cerron@parks.nyc.gov
Joe Conforti		Tel:	joe.conforti@parks.nyc.gov
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com
Quinton Davis	Maser Consulting P.A.	Tel:	qdavis@maserconsulting.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Previous Meeting Minutes: **02/08/2018:** Approved by PDC JCS needs the placement for slab and stone at the gazebo now in order to install pull box from the planting bed for conduit now					
1.2	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open

	Previous Meeting Minutes: **02/08/2018:** GS to provide Gemini weight, and support spec					
3.4	13	Carpet	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **02/08/2018:** 3600 SF PCCO for plank flooring install vs carpet Does ownership require shoe molding?					
3.5	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **02/08/2018:** JG will provide a color coded plan using schedule to show door #s, lock type and swing. JCS sent TO the door schedule.					
3.7	19	Drawings for Exterior Changes	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **02/08/2018:** Since last week's deadline of 2/28, TO received approval from PDC. JG sent the approval to F&P and should have grading and civil today. Lightolier sent something to JG late 3/7 The sidewalks, bollards and lighting are on LP-1.					
3.8	19	Exterior Door Hardware	Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **02/08/2018:** JG to provide hardware spec and color coded plan using schedule to show door #s, lock type and swing for exterior package. The door to coat closet is NOT a dutch door.					
3.10	23	Attic Windows	Ron Rainone **(Hart Howerton)**	01/ 31/ 2018		Open
	Description: See RFI #64					
	Previous Meeting Minutes: **02/08/2018:** This item will remain open until Mockup of Window Blackout detail is complete: there is no lighting behind the windows AS YET due to absence of any lighting plan, RCP, energy calculations etc.					

	Description: See item 1.2, 3.10, 8.2
	Previous Meeting Minutes: **02/08/2018:** JG to give bollard counts to Lightolier

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **02/08/2018:** Dirt infilling this week					
6.2	26	Schedule Delay	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**	02/ 01/ 2018	High	Open
	Previous Meeting Minutes: **02/08/2018:** Waiting on Sam Tell Change order Waiting on final grades/civil drawings per PDC submittal Waiting on pricing for changes on Interior Doors					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: As of 3/7/2018: F&P to begin the grading and drainage plan.					
	Previous Meeting Minutes: **02/08/2018:** Due to open Exterior PDC submission, JCS has yet to receive Civil drawings For Construction and final Grades are still not established but TO expects to be able to deliver these to JCS today					
7.2	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					
	Previous Meeting Minutes: **02/08/2018:**					

8.5	30	PCCO #019	John Gruber **(Trump Ferry Point LLC)**	03/ 07/ 2018		Open
	Description: Labor Associated with Plank Floor Install					
	Attachments: PCCO #019 Labor Associated with Plank Floor Install.pdf					
	Previous Meeting Minutes: **02/08/2018:** *(None)*					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Mar 13, 2018 at 03:19 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

All Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
No Spec Section	76	0	Trane		Open	COHO HVAC, INC	03/20/2018	Danny Yilmaz	03/13/2018	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	03/13/2018		03/20/2018	
No Spec Section	75	0	Distribution Components		Open	Linphill Electrical Contractors	03/19/2018	Floyd Caiazzo	03/12/2018	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	03/12/2018		03/19/2018	
11000 Equipment	73	0	Equipment Cut Book	Product Information	Open	Sam Tell Companies	03/07/2018	Arthur Fisher	03/02/2018	Kevin Dwyer (French & Parrello Associates) Ron Rainone (Hart Howerton)	Dwyer, Kevin (French & Parrello Associates) Rainone, Ron (Hart Howerton)	Pending Pending	03/05/2018 03/05/2018		03/07/2018	
No Spec Section	72	0	Captive Aire		Open	Sam Tell Companies	03/02/2018	Arthur Fisher	02/23/2018	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	02/23/2018		03/09/2018	
No Spec Section	60	0	Bar Hardware	Product Information	Open	JCS Millshop	01/26/2018	James Falk	01/23/2018	Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization) Rainone, Ron (Hart Howerton)	Pending Pending	01/23/2018		01/26/2018	
No Spec Section	59	1	Locker Room Concepts	Shop Drawing	Open	JCS Millshop	02/28/2018	James Falk		Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending	02/21/2018		02/28/2018	

JCS Construction Group, Inc.

Meeting #33

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 04/04/2018 **MEETING TIME:** 10:00 AM - 12:00 PM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Meeting 31.m4a

ATTENDEES:

Name	Company	Phone Number	Email
David Cerron		Tel: (212) 360-3457	david.cerron@parks.nyc.gov
Joe Conforti		Tel:	joe.conforti@parks.nyc.gov
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com
Quinton Davis	Maser Consulting P.A.	Tel:	qdavis@maserconsulting.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open

Previous Meeting Minutes:

03/29/2018:
03/14/18:
Approved by PDC
JCS needs the placement for slab and stone at the gazebo now in order to install pull box from the planting bed for conduit now
What is the cover detail for planting bed?
Pre-package top soil does not require testing.
Backfill with shaping layer to sub grade of -1ft, pour 1ft sand on top of that, dig a 2x2 hole and backfill with bagged material to top of sand does not require Maser or IEM present, W&C requests heads up to be in compliance with Parks requirements.

	TO to specify Television Mounting Bracket					
3.3	13	Chandeliers/Fixtures				Open
	Previous Meeting Minutes: **03/29/2018:** GS to provide Gemini weight, and support spec					
3.4	13	Carpet	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **03/29/2018:** 3600 SF PCCO for plank flooring install vs carpet Will address the need for shoe molding after install of flooring					
3.5	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **03/29/2018:** JG will provide a color coded plan using schedule to show door #s, lock type and swing. JCS sent TO the door schedule.					
3.6	19	Drawings for Exterior Changes	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **03/29/2018:** Since last week's deadline of 2/28, TO received approval from PDC. JG sent the approval to F&P and should have has grading and civil plans two weeks ago per JG Lightolier sent something to JG late 3/7 (WHAT WAS THIS?) The sidewalks, bollards and lighting are on LP-1 which JCS Has not received to date					
3.7	19	Exterior Door Hardware	Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **03/29/2018:** JG to provide hardware spec and color coded plan using schedule to show door #s, lock type and swing for exterior package.					
3.8	23	Attic Windows	Ron Rainone **(Hart Howerton)**	01/ 31/ 2018		Open
	Description: See RFI #64					
	Previous Meeting Minutes: **03/29/2018:** *(None)*					
3.9	29	Foil/FSK-Faced vs Unfaced Batting	Ron Rainone **(Hart Howerton)**	02/ 28/ 2018		On Hold

	Review two week look ahead.					
	Previous Meeting Minutes: **03/29/2018:** *(None)*					
6.2	26	Schedule Delay	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**	02/ 01/ 2018	High	Open
	Previous Meeting Minutes: **03/29/2018:** Waiting on final grades/civil drawings per PDC submittal					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: As of 3/7/2018: F&P to begin the grading and drainage plan. JCS top work off of site plan that F&P provides.					
	Previous Meeting Minutes: **03/29/2018:** Due to open Exterior PDC submission, JCS has yet to receive Civil drawings For Construction and final Grades are still not established. TO expecTED to be able to deliver these to JCS 2 weeks ago.					
7.2	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					
	Previous Meeting Minutes: **03/29/2018:** Due to open Exterior PDC submission, JCS has yet to receive these drawings for Construction/Pricing.					

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
8.1	20	PCCO #010	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Changes to Cupola Framing Materials					
	Attachments: PCCO #010.pdf					
	Previous Meeting Minutes: **03/29/2018:** Will remain open for approval.					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Apr 3, 2018 at 02:29 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact
3	Door Hardware	Open	JCS Construction ...	Shaw, Justin (JCS Construction Group, Inc.)	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...				
19	JCS Millshop RFI #1	Open	JCS Millshop	Falk, James (JCS Millshop)	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...				
49	Leaders	Open	JCS Construction ...	Shaw, Justin (JCS Construction Group, Inc.)	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...				
53	CFM Roof Framing Connection	Open	JCS Construction ...	Shaw, Justin (JCS Construction Group, Inc.)	Rainone, Ron (Har...	11/07/2017	Justin Shaw	11/10/2017		Shaw, Justin (JCS...				
56	Cupola Items	Open		None	Rainone, Ron (Har...	12/08/2017	Justin Shaw	12/11/2017		Shaw, Justin (JCS...				Yes (Unknown)
59	Missing Beam for Trusses	Open	French & Parrello...	None	Rainone, Ron (Har...	01/10/2018	Fiona Rooney	01/13/2018		Rooney, Fiona (JC...	At grid line F11	5 days		Yes (Unknown)
72	electric RFI	Open	Linphill Electric...	Perez, Eddie (Linphill Electrical Contractors)	Gruber, John (Tru...	02/21/2018	Fiona Rooney	02/24/2018		Rooney, Fiona (JC...		Yes (Unknown)		
75	Trump Links Gas Usage	Open	A&M Warshaw Plumb...	Bruno, Cristine (A&M Warshaw Plumbing & Heating)	Rainone, Ron (Har...	02/26/2018	Fiona Rooney	03/01/2018		Rooney, Fiona (JC...				

JCS Construction Group, Inc.

Meeting #35

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 04/18/2018 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Meeting 34.m4a

ATTENDEES:

Name	Company	Phone Number	Email
David Cerron		Tel: (212) 360-3457	david.cerron@parks.nyc.gov
Joe Conforti		Tel:	joe.conforti@parks.nyc.gov
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com
Quinton Davis	Maser Consulting P.A.	Tel:	qdavis@maserconsulting.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Previous Meeting Minutes: **04/11/2018:** Curb PCCO open					
1.2	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **04/11/2018:**					

2012-016 JCL
Samples

	JCS awaiting TO approval to proceed on plank flooring					
3.4	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **04/11/2018:** Door delivery first week of May					
3.5	19	Exterior Door Hardware	Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **04/11/2018:** JG to provide hardware spec and color coded plan using schedule to show door #s, lock type and swing for exterior package					
3.6	23	Attic Windows	Ron Rainone **(Hart Howerton)**	01/ 31/ 2018		Open
	Description: See RFI #64					
	Previous Meeting Minutes: **04/11/2018:** This item will remain open until Mockup of Window Blackout detail is complete: there is no lighting behind the windows AS YET due to absence of any lighting plan, RCP, energy calculations etc.					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **04/11/2018:** JCS has yet to receive these drawings.					
5.3	20	Electrical	Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **04/11/2018:** FA Plan Review Objection, TO/Hernan to resolve.					

	Description: Interior Lighting					
	Attachments: PCCO #012.pdf					
	Previous Meeting Minutes: **04/11/2018:** Will remain open for approval.					
8.3	30	PCCO #019	John Gruber **(Trump Ferry Point LLC)**	03/ 07/ 2018		Open
	Description: Labor Associated with Plank Floor Install					
	Attachments: PCCO #019 Labor Associated with Plank Floor Install.pdf					
	Previous Meeting Minutes: **04/11/2018:** Will remain open for approval.					
8.4	31	PCCO #020	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Lower Urinal					
	Previous Meeting Minutes: **04/11/2018:** Will remain open for approval.					
8.5	33	PCCO #21	John Gruber **(Trump Ferry Point LLC)**	04/ 04/ 2018		Open
	Description: Low Volatge Installation					
	Previous Meeting Minutes: **04/11/2018:** Will remain open for approval.					
8.6	33	PCCO #022	John Gruber **(Trump Ferry Point LLC)**	04/ 05/ 2018		Open
	Description: Reinstall Underlayment					
	Previous Meeting Minutes: **04/11/2018:** Will remain open for approval.					
8.7	33	PCCO #023	John Gruber **(Trump Ferry Point LLC)**	04/ 10/ 2018		Open
	Description:					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Wed Apr 18, 2018 at 07:45 am EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact
80	Sam Tell RFI 1	Open	Sam Tell Companies	LoBianco, John (Sam Tell Companies)	Rainone, Ron (Har...	04/05/2018	Fiona Rooney	04/08/2018		Rooney, Fiona (JC...				
75	Trump Links Gas Usage	Open	A&M Warshaw Plumb...	Bruno, Cristine (A&M Warshaw Plumbing & Heating)	Rainone, Ron (Har...	02/26/2018	Fiona Rooney	03/01/2018		Rooney, Fiona (JC...				
72	electric RFI	Open	Linphill Electric...	Perez, Eddie (Linphill Electrical Contractors)	Gruber, John (Tru...	02/21/2018	Fiona Rooney	02/24/2018		Rooney, Fiona (JC...		Yes (Unknown)		
59	Missing Beam for Trusses	Open	French & Parrello...	None	Rainone, Ron (Har...	01/10/2018	Fiona Rooney	01/13/2018		Rooney, Fiona (JC...	At grid line F11	5 days		Yes (Unknown)
3	Door Hardware	Open	JCS Construction ...	Shaw, Justin (JCS Construction Group, Inc.)	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...				

EARTHWORK
PARKING LOT MATERIAL
BEING MOVED TODAY
SHOULD BE FINISHED THIS WEEK

JCS | Construction Group, Inc.

Meeting #38

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

AT FUR ALTED WARRIS
VARIZON

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Minutes

MEETING DATE: 05/16/2018 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

NOTES:

ATTACHMENTS:

ATTENDEES:

Name	Company	Phone Number	Email	Attendance
David Cerron		Tel: (212) 360-3457	david.cerron@parks.nyc.gov	Absent
Joe Conforti		Tel:	joe.conforti@parks.nyc.gov	Absent
Steven Lauria		Tel:	slauria@woodardcurran.com	Conference
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com	Present
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com	Present
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com	Present
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com	Present
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com	For Distribution Only
Quinton Davis	Maser Consulting P.A.	Tel:	qdavis@maserconsulting.com	Absent
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com	Absent
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com	Absent
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com	Absent
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com	Present

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Previous Meeting Minutes: **05/02/2018:** *(None)*					
1.2	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open

These meeting minutes are believed to be an accurate reflection of those items discussed and the conclusions that were reached during the referenced meeting.
Please contact JCS Construction Group Inc if there are any discrepancies or questions with the content of these minutes.

	Previous Meeting Minutes: **05/02/2018:** JG to provide hardware spec and color coded plan using schedule to show door #s, lock type and swing for exterior package					
3.4	23	Attic Windows	Ron Rainone **(Hart Howerton)**	01/ 31/ 2018		Open
	Description: See RFI #64					
	Official Documented Meeting Minutes: This item will remain open until Mockup of Window Blackout detail is complete: there is no lighting behind the windows AS YET due to absence of any lighting plan, RCP, energy calculations etc.					
	Previous Meeting Minutes: **05/02/2018:** This item will remain open until Mockup of Window Blackout detail is complete: there is no lighting behind the windows AS YET due to absence of any lighting plan, RCP, energy calculations etc.					
3.5	38	Trex Rail Height	Ron Rainone **(Hart Howerton)**	05/ 17/ 2018		Open
	Description: Is it acceptable to 39" rail height vs 42"? WHAT IS CODE ???					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	37	Permit Applications	Arthur Fisher **(Sam Tell Companies)**	05/ 09/ 2018	High	Open
	Official Documented Meeting Minutes: Sam Tell to file duct permits, VFA and HH to amend permit application per plan.					
	Previous Meeting Minutes: **05/02/2018:** *(None)*					
5.2	20	Electrical	Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **05/02/2018:** Lighting Scope is unclear					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Official Documented Meeting Minutes: - Lighting Plan - Fire Alarm					

These meeting minutes are believed to be an accurate reflection of those items discussed and the conclusions that were reached during the referenced meeting.

Please contact JCS Construction Group Inc if there are any discrepancies or questions with the content of these minutes.

8.3	35	PCCO #024	John Gruber **(Trump Ferry Point LLC)**	05/ 16/ 2018	High	Open
	Description: New Sprinkler Design					
	Attachments: PCCO #024.pdf					
	Previous Meeting Minutes: **05/02/2018:** Under review pending submittal response					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Wed May 16, 2018 at 09:24 am EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact
75	Trump Links Gas Usage	Open	A&M Warshaw Plumb...	Bruno, Cristine (A&M Warshaw Plumbing & Heating)	Rainone, Ron (Har...	02/26/2018	Fiona Rooney	03/01/2018		Rooney, Fiona (JC...				
72	electric RFI	Open	Linphill Electric...	Perez, Eddie (Linphill Electrical Contractors)	Gruber, John (Tru...	02/21/2018	Fiona Rooney	02/24/2018		Rooney, Fiona (JC...		Yes (Unknown)		
59	Missing Beam for Trusses	Open	French & Parrello...	None	Rainone, Ron (Har...	01/10/2018	Fiona Rooney	01/13/2018		Rooney, Fiona (JC...	At grid line F11	5 days		Yes (Unknown)
3	Door Hardware	Open	JCS Construction ...	Shaw, Justin (JCS Construction Group, Inc.)	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...				

JCS Construction Group, Inc.

Meeting #40

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 05/23/2018 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

ATTENDEES:

Name	Company	Phone Number	Email
Matt Calamari		Tel:	mcalamari@trumporg.com
David Cerron		Tel: (212) 360-3457	david.cerron@parks.nyc.gov
Joe Conforti		Tel:	joe.conforti@parks.nyc.gov
Steven Lauria		Tel:	slauria@woodardcurran.com
Ron Leiberman		Tel:	rlieberman@trumporganization.com
Scott Palma		Tel:	prplumbing@aol.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com
Quinton Davis	Maser Consulting P.A.	Tel:	qdavis@maserconsulting.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Arthur Fisher	Sam Tell Companies	Tel:	afisher@samtell.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Previous Meeting Minutes: **05/16/2018:** *(None)*					

TREX

RR to determine if the standard 36" Trex railings can be used instead of the specified 42" height. RR responded saying that the conditions as built do not require the 42" rail by code so the 36" stock railing kits are acceptable.

3.2	9	Millwork	Ron Rainone **(Hart Howerton)**			On Hold

Description:
JCS Millshop requires at least 2 weeks after receipt of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.

Previous Meeting Minutes:
05/16/2018: *(None)*

3.3	19	Exterior Door Hardware	Giavona Sullivan **(The Trump Organization)**			Open

Previous Meeting Minutes:
05/16/2018:
Exterior lanterns, shower seats, grab bars are all onsite. Plumbing trim not delivered but is avail. All Interior hardware by Omni including closers are due Thursday or Friday. Exterior is mainly push-pulls, mortise locks and closers and are being delivered in the next couple of days. Carpenters to install four hinges per the metal doors. JG to check on Von Dubran.

3.4	23	Attic Windows	Ron Rainone **(Hart Howerton)**	01/ 31/ 2018		Open

Description:
See RFI #64

Previous Meeting Minutes:
05/16/2018:
The window treatments for the blackout windows: curtains have been installed, JG to put up a temporary light to determine how to proceed with permanent fixtures but will likely proceed with porcelain socket.=. This item will remain open until Mock-up of Window Blackout detail is complete: there is no lighting behind the windows AS YET due to absence of any lighting plan, RCP, energy calculations etc.

Per JG, we can add the lights at a later date because we do not need the attic windows illuminated right away and once we get the approval we can proceed

3.5	39	Masonry	John Gruber **(Trump Ferry Point LLC)**			Open

Previous Meeting Minutes:
05/16/2018:
Bluestone Patio:
Exterior Landscape, siding grading, seams of the bluestone needs to get cut and ground down.
MC does not like the bluestone installation because of the irregular, thickness of the seams and surfaces, etc.; this couldn't be helped because of the nature of the source from which the stone was quarried. Seams need to be sawed down.
Masons to cut the thickness of the stone down (and hadn't been onsite due to 90% thunderstorms predicted).

3.6	39	Carpentry				Open

Description:
Window Trim detail: The reveal is approved, mockup was poor, lack of consistency on the trim dimensions look odd (1x4 all the way around and then a stool with the 1x2 and 1x6). The TO should provide a trim detail. Carpenters need to tighten up their miters.

Description:
Sprinkler and Duct are the only trades that need to be working overtime/making use of extended hours HVAC equipment to be delivered to site before 5/18/2018. Bentzi to do layout when equipment,
Regarding the hatch above the mezzanine, since this is not a coordinated design by the engineers, will need to be laid out on the mezzanine and lasered up to determine locations of mechanical equipment on roof.
Kitchen equipment can be delivered, preformed metal curbs to sit on EPDM
Hatch in Proshop (JCS doesn't have detail for this, how does TO want this done? Previously discussed option of not doing the roof hatch and cutting the roof as needed if we need to get equipment out. Need to cut a 4x5 hole to get the equipment in, so the same hole would serve to remove the equipment as needed later on, but this would also result in an enormous hole in the ceiling and they do not make 5x5 access panels that are attractive for this purpose.
Perhaps JCS can fabricate a custom access panel for the oversized hatch door?

Previous Meeting Minutes:
05/16/2018: *(None)*

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **05/16/2018:** *(None)*					
6.2	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **05/16/2018:** Sam Tell: Stainless Steel Fab, Refrigeration Electricians Ductwork Roofer: Shingling, Flashing Carpenters: Trim in grill/bar room, Taping Painting, framing for Proshop diffusers, closing up walls, back door trim Masonry: Belgium Block/Bluestone					
6.3	26	Schedule Delay	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**	02/ 01/ 2018	High	On Hold
	Previous Meeting Minutes: **05/16/2018:** Per the AOR, this is a 16 to 18 month project. Sam Tell: The stainless custom fabrication will be delivered Wednesday May 23rd 2018. There are critical path open items in TO's court that must be resolved, Hard to deliver a hardline schedule if we cant identify our sprinkler system.					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue May 22, 2018 at 01:54 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact
75	Trump Links Gas Usage	Open	A&M Warshaw Plumb...	Bruno, Cristine (A&M Warshaw Plumbing & Heating)	Rainone, Ron (Har...	02/26/2018	Fiona Rooney	03/01/2018		Rooney, Fiona (JC...				
72	electric RFI	Open	Linphill Electric...	Perez, Eddie (Linphill Electrical Contractors)	Gruber, John (Tru...	02/21/2018	Fiona Rooney	02/24/2018		Rooney, Fiona (JC...		Yes (Unknown)		
59	Missing Beam for Trusses	Open	French & Parrello...	None	Rainone, Ron (Har...	01/10/2018	Fiona Rooney	01/13/2018		Rooney, Fiona (JC...	At grid line F11	5 days		Yes (Unknown)
3	Door Hardware	Open	JCS Construction ...	Shaw, Justin (JCS Construction Group, Inc.)	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...				

APPENDIX N

Hampton-Clarke Project No. 8081617 Report dated September 14, 2018

Hampton-Clarke
Analytical & Field Services

175 ROUTE 46 WEST, UNIT D · FAIRFIELD, NJ 07004
2 MADISON ROAD, FAIRFIELD, NJ 07004
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: Trump Links

Client PO: Not Available

Report To: Maser Consulting
50 Chestnut Ridge Rd.
Suite 101
Montvale, NJ 07645

Attn: Dave Keil

Received Date: 8/16/2018

Report Date: 9/14/2018

Deliverables: NYDOH-R

Lab ID: AD05999

Lab Project No: 8081617

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

Robin Cousineau - Quality Assurance Director OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

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8081617_SUB.pdf

Sample Summary

Client: Maser Consulting
Project: Trump Links

HC Project #: 8081617

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD05999-001	SS-1	Soil	8/15/2018	8/16/2018
AD05999-002	SS-2	Soil	8/15/2018	8/16/2018

HC Case Narrative

Client: Maser Consulting
Project: Trump Links

HC Project: 8081617

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

Methylene chloride was recovered in sample AD05999-001 due to possible laboratory contamination.

The Method Blank Spike for batch 70991 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The Matrix Spike and Matrix Spike Duplicate for batch 70991 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

TCLP Volatile Organic Analysis:

The Method Blank Spike for batch 70993 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and Matrix Spike Duplicate for batch 70993 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

The Method Blank Spike for batch 69957 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and Matrix Spike Duplicate for batch 69957 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

PCB Analysis:

Data conforms to method requirements.

Pesticide Analysis:

Data conforms to method requirements.

Herbicide Analysis:

Data conforms to method requirements.

Metals Analysis:

The Matrix Spike and Matrix Spike Duplicate for batches 70604 and 70605 had recoveries outside QC limits. Please refer to the applicable Form 5/7 for the recoveries.

The RPD between the QC sample and the Method Replicate had recoveries outside QC limits in batch 70604. Please refer to the applicable Form 6/9 for the recoveries.

The serial dilution for batches 70604 and 70605 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

TCLP Metals Analysis:

Data conforms to method requirements.

Wet Chemistry Analysis:

Data conforms to method requirements.

Subcontracted Analysis:

Please refer to attached subcontracted laboratory report. Sample AD05999-001 was submitted to Pace Analytical for TCDD Scan (1613) analysis and PCDD/PCDF (8290) analysis.

Please refer to attached subcontracted laboratory report. Sample AD05999-001 was submitted to TestAmerica for Parathion (8141) analysis.

Robin Cousineau Quality Assurance Director	Or	Jean Revolus Laboratory Director	9/17/2018 Date

HC Executive Summary

Client: Maser Consulting

HC Project #: 8081617

Project: Trump Links

Lab#: AD05999-001 **Sample ID: SS-1**

Analyte	Units	RL	Result	Analytical Method
Aluminum	mg/kg	210	610	EPA 6010D
Calcium	mg/kg	1100	1100	EPA 6010D
Iron	mg/kg	210	1400	EPA 6010D
Magnesium	mg/kg	530	730	EPA 6010D
Manganese	mg/kg	11	18	EPA 6010D
Arsenic	mg/kg	0.21	0.39	EPA 6020B
Methylene chloride	mg/kg	0.0046	0.0053	EPA 8260C

NOTE: Soil Results are reported to Dry Weigh

HC Report of Analysis

Client: Maser Consulting
Project: Trump Links

HC Project #: 8081617

Sample ID: SS-1
Lab#: AD05999-001
Matrix: Soil

Collection Date: 8/15/2018
Receipt Date: 8/16/2018

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		95

2,3,7,8-TCDD Scan

Analyte	DF	Units	RL	Result
2,3,7,8-TCDD	1	ng/kg	0.92	ND

Chlorinated Herbicides 8151

Analyte	DF	Units	RL	Result
2,4,5-T	1	mg/kg	0.011	ND
2,4-D	1	mg/kg	0.011	ND
Silvex	1	mg/kg	0.011	ND

Cyanide (Soil/Waste) 9012B

Analyte	DF	Units	RL	Result
Cyanide	1	mg/kg	0.25	ND

Mercury (Soil/Waste) 7471B

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.088	ND

Mercury (TCLP) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	mg/l	0.00050	ND

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
a-Chlordane	1	mg/kg	0.0053	ND
Aldrin	1	mg/kg	0.0053	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane (Technical)	1	mg/kg	0.026	ND
Chlordane (Total)	1	mg/kg	0.0053	ND
delta-BHC	1	mg/kg	0.0053	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0053	ND
Endosulfan II	1	mg/kg	0.0053	ND
Endosulfan Sulfate	1	mg/kg	0.0053	ND
Endrin	1	mg/kg	0.0053	ND
Endrin Aldehyde	1	mg/kg	0.0053	ND
Endrin Ketone	1	mg/kg	0.0053	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0053	ND
Heptachlor Epoxide	1	mg/kg	0.0053	ND
Methoxychlor	1	mg/kg	0.0053	ND
p,p'-DDD	1	mg/kg	0.0026	ND
p,p'-DDE	1	mg/kg	0.0026	ND
p,p'-DDT	1	mg/kg	0.0026	ND
Toxaphene	1	mg/kg	0.026	ND
y-Chlordane	1	mg/kg	0.0053	ND

Sample ID: SS-1
Lab#: AD05999-001
Matrix: Soil

Collection Date: 8/15/2018
Receipt Date: 8/16/2018

Organophosphorous Pesticides 8141

Analyte	DF	Units	RL	Result
Parathion	1	ug/kg	5.2	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.026	ND
Aroclor-1016	1	mg/kg	0.026	ND
Aroclor-1221	1	mg/kg	0.026	ND
Aroclor-1232	1	mg/kg	0.026	ND
Aroclor-1242	1	mg/kg	0.026	ND
Aroclor-1248	1	mg/kg	0.026	ND
Aroclor-1254	1	mg/kg	0.026	ND
Aroclor-1260	1	mg/kg	0.026	ND
Aroclor-1262	1	mg/kg	0.026	ND
Aroclor-1268	1	mg/kg	0.026	ND

PCDD & PCDF (8290)

Analyte	DF	Units	RL	Result
PCDD & PCDF	1	ng/kg	0.92	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
2,4,5-Trichlorophenol	1	mg/kg	0.035	ND
2,4-Dichlorophenol	1	mg/kg	0.0088	ND
2,4-Dinitrophenol	1	mg/kg	0.11	ND
2,6-Dinitrotoluene	1	mg/kg	0.035	ND
2-Chlorophenol	1	mg/kg	0.035	ND
2-Methylnaphthalene	1	mg/kg	0.035	ND
2-Methylphenol	1	mg/kg	0.0088	ND
2-Nitroaniline	1	mg/kg	0.035	ND
2-Nitrophenol	1	mg/kg	0.035	ND
3&4-Methylphenol	1	mg/kg	0.0088	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.035	ND
3-Nitroaniline	1	mg/kg	0.035	ND
4-Chloro-3-methylphenol	1	mg/kg	0.035	ND
4-Chloroaniline	1	mg/kg	0.0088	ND
4-Nitrophenol	1	mg/kg	0.035	ND
Acenaphthene	1	mg/kg	0.035	ND
Acenaphthylene	1	mg/kg	0.035	ND
Aniline	1	mg/kg	0.0088	ND
Anthracene	1	mg/kg	0.035	ND
Benzo[a]anthracene	1	mg/kg	0.035	ND
Benzo[a]pyrene	1	mg/kg	0.035	ND
Benzo[b]fluoranthene	1	mg/kg	0.035	ND
Benzo[g,h,i]perylene	1	mg/kg	0.035	ND
Benzo[k]fluoranthene	1	mg/kg	0.035	ND
Benzoic acid	1	mg/kg	0.18	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.035	ND
Butylbenzylphthalate	1	mg/kg	0.035	ND
Chrysene	1	mg/kg	0.035	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.035	ND
Dibenzofuran	1	mg/kg	0.0088	ND
Diethylphthalate	1	mg/kg	0.035	ND
Dimethylphthalate	1	mg/kg	0.035	ND
Di-n-butylphthalate	1	mg/kg	0.0088	ND
Di-n-octylphthalate	1	mg/kg	0.035	ND

Sample ID: SS-1
Lab#: AD05999-001
Matrix: Soil

Collection Date: 8/15/2018
Receipt Date: 8/16/2018

Fluoranthene	1	mg/kg	0.035	ND
Fluorene	1	mg/kg	0.035	ND
Hexachlorobenzene	1	mg/kg	0.035	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.035	ND
Isophorone	1	mg/kg	0.035	ND
Naphthalene	1	mg/kg	0.0088	ND
Nitrobenzene	1	mg/kg	0.035	ND
Pentachlorophenol	1	mg/kg	0.075	ND
Phenanthrene	1	mg/kg	0.035	ND
Phenol	1	mg/kg	0.035	ND
Pyrene	1	mg/kg	0.035	ND

Sulfur Content ASTM D1552

Analyte	DF	Units	RL	Result
Sulfur Content	1	%	0.15	ND

TAL Metals 6010D

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**210**	**610**
Barium	1	mg/kg	11	ND
Calcium	**1**	**mg/kg**	**1100**	**1100**
Chromium	1	mg/kg	5.3	ND
Cobalt	1	mg/kg	2.6	ND
Copper	1	mg/kg	5.3	ND
Iron	**1**	**mg/kg**	**210**	**1400**
Lead	1	mg/kg	5.3	ND
Magnesium	**1**	**mg/kg**	**530**	**730**
Manganese	**1**	**mg/kg**	**11**	**18**
Nickel	1	mg/kg	5.3	ND
Potassium	1	mg/kg	530	ND
Sodium	1	mg/kg	260	ND
Vanadium	1	mg/kg	11	ND
Zinc	1	mg/kg	11	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.84	ND
Arsenic	**1**	**mg/kg**	**0.21**	**0.39**
Beryllium	1	mg/kg	0.21	ND
Cadmium	1	mg/kg	0.42	ND
Selenium	1	mg/kg	2.1	ND
Silver	1	mg/kg	0.21	ND
Thallium	1	mg/kg	0.42	ND

TCLP Metals 6010D

Analyte	DF	Units	RL	Result
Arsenic	1	mg/l	0.10	ND
Barium	1	mg/l	0.25	ND
Cadmium	1	mg/l	0.050	ND
Chromium	1	mg/l	0.10	ND
Lead	1	mg/l	0.050	ND
Selenium	1	mg/l	0.10	ND
Silver	1	mg/l	0.050	ND

TCLP Volatiles 8260

Analyte	DF	Units	RL	Result
1,1-Dichloroethene	1	mg/l	0.0010	ND
1,2-Dichloroethane	1	mg/l	0.00050	ND

Sample ID: SS-1
Lab#: AD05999-001
Matrix: Soil

Collection Date: 8/15/2018
Receipt Date: 8/16/2018

1,4-Dichlorobenzene	1	mg/l	0.0010	ND
2-Butanone	1	mg/l	0.0010	ND
Benzene	1	mg/l	0.00050	ND
Carbon tetrachloride	1	mg/l	0.0010	ND
Chlorobenzene	1	mg/l	0.0010	ND
Chloroform	1	mg/l	0.0010	ND
Tetrachloroethene	1	mg/l	0.0010	ND
Trichloroethene	1	mg/l	0.0010	ND
Vinyl chloride	1	mg/l	0.0010	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	2.18	mg/kg	0.0046	ND
1,1,2,2-Tetrachloroethane	2.18	mg/kg	0.0046	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	2.18	mg/kg	0.0046	ND
1,1-Dichloroethane	2.18	mg/kg	0.0046	ND
1,1-Dichloroethene	2.18	mg/kg	0.0046	ND
1,2,3-Trichloropropane	2.18	mg/kg	0.0046	ND
1,2,4-Trichlorobenzene	2.18	mg/kg	0.0046	ND
1,2-Dichlorobenzene	2.18	mg/kg	0.0046	ND
1,2-Dichloroethane	2.18	mg/kg	0.0046	ND
1,3-Dichlorobenzene	2.18	mg/kg	0.0046	ND
1,3-Dichloropropane	2.18	mg/kg	0.0046	ND
1,4-Dichlorobenzene	2.18	mg/kg	0.0046	ND
2,2-Dichloropropane	2.18	mg/kg	0.0046	ND
2-Butanone	2.18	mg/kg	0.0046	ND
4-Methyl-2-pentanone	2.18	mg/kg	0.0046	ND
Acetone	2.18	mg/kg	0.023	ND
Benzene	2.18	mg/kg	0.0023	ND
Carbon disulfide	2.18	mg/kg	0.0046	ND
Carbon tetrachloride	2.18	mg/kg	0.0046	ND
Chlorobenzene	2.18	mg/kg	0.0046	ND
Chloroethane	2.18	mg/kg	0.0046	ND
Chloroform	2.18	mg/kg	0.0046	ND
cis-1,2-Dichloroethene	2.18	mg/kg	0.0046	ND
cis-1,3-Dichloropropene	2.18	mg/kg	0.0046	ND
Dibromochloromethane	2.18	mg/kg	0.0046	ND
Ethylbenzene	2.18	mg/kg	0.0023	ND
m&p-Xylenes	2.18	mg/kg	0.0023	ND
Methylene chloride	**2.18**	**mg/kg**	**0.0046**	**0.0053**
o-Xylene	2.18	mg/kg	0.0023	ND
Tetrachloroethene	2.18	mg/kg	0.0046	ND
Toluene	2.18	mg/kg	0.0023	ND
Trichloroethene	2.18	mg/kg	0.0046	ND
Vinyl chloride	2.18	mg/kg	0.0046	ND
Xylenes (Total)	2.18	mg/kg	0.0023	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

MDL = Method Detection Limit

RL* = Reporting Limit

ND = Not Detected

RT = Retention Time

NA = Not Applicable

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Maser Consulting

Project: Trump Links

HC Project #: 8081617

Lab#: AD05999-001 **Sample ID:** SS-1

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	8/17/18 00:00	jessica
2,3,7,8-TCDD Scan	EPA 1613			EPA 1613	8/25/18 00:00	Pace Analytical
Chlorinated Herbicides 8151		08/17/18 06:30	jkr	EPA 8151A	8/20/18 13:40	MLC/MS/ZM
Cyanide (Soil/Waste) 9012B		08/17/18	jessica	EPA 9012B	8/17/18 12:01	JMP
Mercury (Soil/Waste) 7471B	EPA 7471B	08/21/18 10:45	aadewusi	EPA 7471B	8/23/18 16:37	CJA
Mercury (TCLP) 7470A	EPA 7470A	08/21/18 10:00	BAdeola	EPA 7470A	8/23/18 11:21	CJA
Organochlorine Pesticides 8081	3510C/3550C	08/23/18 06:30	jkr	EPA 8081B	8/24/18 05:45	MS/MLC/ZM
Organophosphorous Pesticides 8141		08/22/18 11:30		EPA 8141	8/23/18 07:30	TestAmerica
PCB 8082	3510C/3550C	08/23/18 06:30	jkr	EPA 8082A	8/23/18 16:39	MS/ZM/MLC
PCDD & PCDF (8290)				EPA 8290	8/25/18 00:00	Pace Analytical
Semivolatile Organics (no search) 8270	3510C/3550C	08/22/18 04:23	jprevilon	EPA 8270D	8/22/18 14:49	AH/JB
Sulfur Content ASTM D1552		08/23/18	dp/jw	ASTM D-1552	8/23/18 11:48	dp/jw
TAL Metals 6010D	3005&10/3050	08/21/18 10:45	aadewusi	EPA 6010D	8/24/18 07:35	OA
TAL Metals 6010D	3005&10/3050	08/21/18 10:45	aadewusi	EPA 6010D	8/24/18 02:05	OA
TAL Metals 6020B	3005&10/3050	08/21/18 10:45	aadewusi	EPA 6020B	8/24/18 01:20	SRB
TCLP Metals 6010D	3005&10/3050	08/21/18 10:00	BAdeola	EPA 6010D	8/21/18 20:42	OA
TCLP Metals Extraction 1311	EPA 1311	08/20/18 16:40	Ramos		8/21/18 11:32	Ramos
TCLP Volatiles 8260	EPA 5030C			EPA 8260C	8/22/18 16:27	WP
TCLP Zero Headspace Extraction	EPA 1311	08/21/18 00:43	jprevilon			
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	8/22/18 07:45	WP

Chain of Custody

8081617 0012

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 8081617

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%)*	Results + QC (Waste)	Excel Reg. NJ/NY PA
2 Business Days (75%)*	Reduced	EnviroData
3 Business Days (50%)*	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%)*	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Maser Consultants
Address: 50 Chestnut Ridge Road, Montvale, NJ
1b) Email/Cell/Fax/Ph: (201) 939-2515
1c) Send Invoice to: D. Keik
1d) Send Report to: D. Keik

Project Information

2a) Project: Thumpline Farm Air Rapid - Mahwah, NJ
2b) Project Mgr: D. Keik
2c) Project Location (City/State): 151 South Street, Mahwah, NJ
2d) Quote/PO # (If Applicable):

FOR LAB USE ONLY ↓

Batch # A005999

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water, S - Soil, A - Air
GW - Ground Water, SL - Sludge
WW - Waste Water, OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Composite (C)	Grab (G)	VOC	8260 SOILS	8260 TCLP	BNA, PAHs, HERB	PCB	TAL METAL + Co	TCLP METAL, S	2,3,7,8 TCDD	PCDF (1A3)	OP PEST PARATHION DIMETHOATE	8) # of Bottles None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other: Terra Core	9) Comments
-001	SS-1	S	8/15/18	1410		X	X	X	X	X	X	X	X	X	X	X	5							3	
																								3	
-002	SS-2	S	8/15/18	1415													5							3	HOLD

10) Relinquished by:	Accepted by:	Date	Time
[signature]	[signature]	8-16-18	11:58
[signature]	[signature]	8-16-18	12:30

11) Sampler (print name): Date:

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270D SIM)
- [ ] VOC (8260C SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.3°

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD05999

Entered By: Frantz
Date Entered 8/16/2018 1:07:00 PM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	No	Are the COC seals intact?
4	T0056	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 3.3
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify
14	NA	Corrective actions (Specify item number and corrective action taken).

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD05999-001	08/16/18 12:55	FRAN	0	M	Received
AD05999-001	08/16/18 13:07	FRAN	0	M	Login
AD05999-001	08/16/18 13:22	F19	1	A	NONE
AD05999-001	08/21/18 19:59	WP	1	A	VOA
AD05999-001	08/16/18 13:22	F19	2	A	NONE
AD05999-001	08/16/18 13:22	R21	3	A	NONE
AD05999-001	08/16/18 19:16	WP	3	A	VOA
AD05999-001	08/16/18 20:31	R31	3	A	NONE
AD05999-001	08/16/18 13:14	R12	4	A	NONE
AD05999-001	08/16/18 13:14	R12	5	A	NONE
AD05999-001	08/16/18 13:14	R12	6	A	NONE
AD05999-001	08/16/18 23:09	PA	6	A	mix
AD05999-001	08/16/18 23:09	R12	6	A	NONE
AD05999-001	08/17/18 06:07	JKR	6	A	HERB
AD05999-001	08/17/18 07:08	JMP	6	A	solids
AD05999-001	08/17/18 08:28	JMP	6	A	cn
AD05999-001	08/17/18 11:12	R12	6	A	NONE
AD05999-001	08/20/18 16:10	RAMO	6	A	tclp
AD05999-001	08/20/18 16:11	RAMO	6	A	r12
AD05999-001	08/20/18 23:51	R12	6	A	NONE
AD05999-001	08/20/18 23:51	JP	6	A	tclp-zhe
AD05999-001	08/21/18 09:40	AM	6	M	TDSI/HG
AD05999-001	08/21/18 11:44	R12	6	A	NONE
AD05999-001	08/22/18 04:23	JP	6	A	bna
AD05999-001	08/22/18 04:24	R12	6	A	NONE
AD05999-001	08/22/18 16:31	DP	6	A	SULFUR
AD05999-001	08/22/18 18:00	R12	6	A	NONE
AD05999-001	08/23/18 06:21	JKR	6	A	p/p
AD05999-001	08/23/18 08:23	R12	6	M	NONE
AD05999-001	08/16/18 13:14	R12	7	A	NONE
AD05999-001	08/16/18 13:14	R12	8	A	NONE
AD05999-002	08/16/18 12:55	FRAN	0	M	Received
AD05999-002	08/16/18 13:07	FRAN	0	M	Login
AD05999-002	08/16/18 13:14	R12	1	A	NONE
AD05999-002	08/16/18 13:14	R12	2	A	NONE
AD05999-002	08/16/18 13:14	R12	3	A	NONE
AD05999-002	08/16/18 13:14	R12	4	A	NONE
AD05999-002	08/16/18 13:22	F19	5	A	NONE
AD05999-002	08/16/18 13:22	R21	6	A	NONE
AD05999-002	08/16/18 19:16	WP	6	A	VOA
AD05999-002	08/16/18 20:31	R31	6	A	NONE
AD05999-002	08/16/18 13:22	F19	7	A	NONE
AD05999-002	08/21/18 19:59	WP	7	A	VOA
AD05999-002	08/16/18 13:14	R12	8	A	NONE

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD05999-001
Client Id: SS-1
Data File: 8M20100.D
Analysis Date: 08/22/18 07:45
Date Rec/Extracted: 08/16/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 2.29g
Final Vol: NA
Dilution: 2.18
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0046	U	75-15-0	Carbon Disulfide	0.0046	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0046	U	56-23-5	Carbon Tetrachloride	0.0046	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0046	U	108-90-7	Chlorobenzene	0.0046	U
75-34-3	1,1-Dichloroethane	0.0046	U	75-00-3	Chloroethane	0.0046	U
75-35-4	1,1-Dichloroethene	0.0046	U	67-66-3	Chloroform	0.0046	U
96-18-4	1,2,3-Trichloropropane	0.0046	U	156-59-2	cis-1,2-Dichloroethene	0.0046	U
120-82-1	1,2,4-Trichlorobenzene	0.0046	U	10061-01-5	cis-1,3-Dichloropropene	0.0046	U
95-50-1	1,2-Dichlorobenzene	0.0046	U	124-48-1	Dibromochloromethane	0.0046	U
107-06-2	1,2-Dichloroethane	0.0046	U	100-41-4	Ethylbenzene	0.0023	U
541-73-1	1,3-Dichlorobenzene	0.0046	U	79601-23-1	m&p-Xylenes	0.0023	U
142-28-9	1,3-Dichloropropane	0.0046	U	**75-09-2**	**Methylene Chloride**	**0.0046**	**0.0053**
106-46-7	1,4-Dichlorobenzene	0.0046	U	95-47-6	o-Xylene	0.0023	U
594-20-7	2,2-Dichloropropane	0.0046	U	127-18-4	Tetrachloroethene	0.0046	U
78-93-3	2-Butanone	0.0046	U	108-88-3	Toluene	0.0023	U
108-10-1	4-Methyl-2-Pentanone	0.0046	U	79-01-6	Trichloroethene	0.0046	U
67-64-1	Acetone	0.023	U	75-01-4	Vinyl Chloride	0.0046	U
71-43-2	Benzene	0.0023	U	1330-20-7	Xylenes (Total)	0.0023	U

Worksheet #: 477187

Total Target Concentration 0.0053

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD05999-001 Operator : WP Qt Meth : 8M_S0726.M
Data File: 8M20100.D Sam Mult : 1 Vial# : 98 Qt On : 08/22/18 13:18
Acq On : 08/22/18 07:45 Misc : S,5G!1 Qt Upd On: 07/27/18 11:49

Data Path : G:\GcMsData\2018\GCMS_8\Data\0822-18\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.111	96	456453	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.761	117	427439	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.021	152	224276	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.700	111	124387	31.53	ug/l	0.00
Spiked Amount 30.000			Recovery = 105.10%			
39) 1,2-Dichloroethane-d4	4.915	67	65120	28.89	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.30%			
66) Toluene-d8	5.983	98	490372	29.31	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.70%			
76) Bromofluorobenzene	7.381	174	167316	31.32	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.40%			
Target Compounds						Qvalue
15) Methylene Chloride	3.362	84	12923	2.2960	ug/l	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

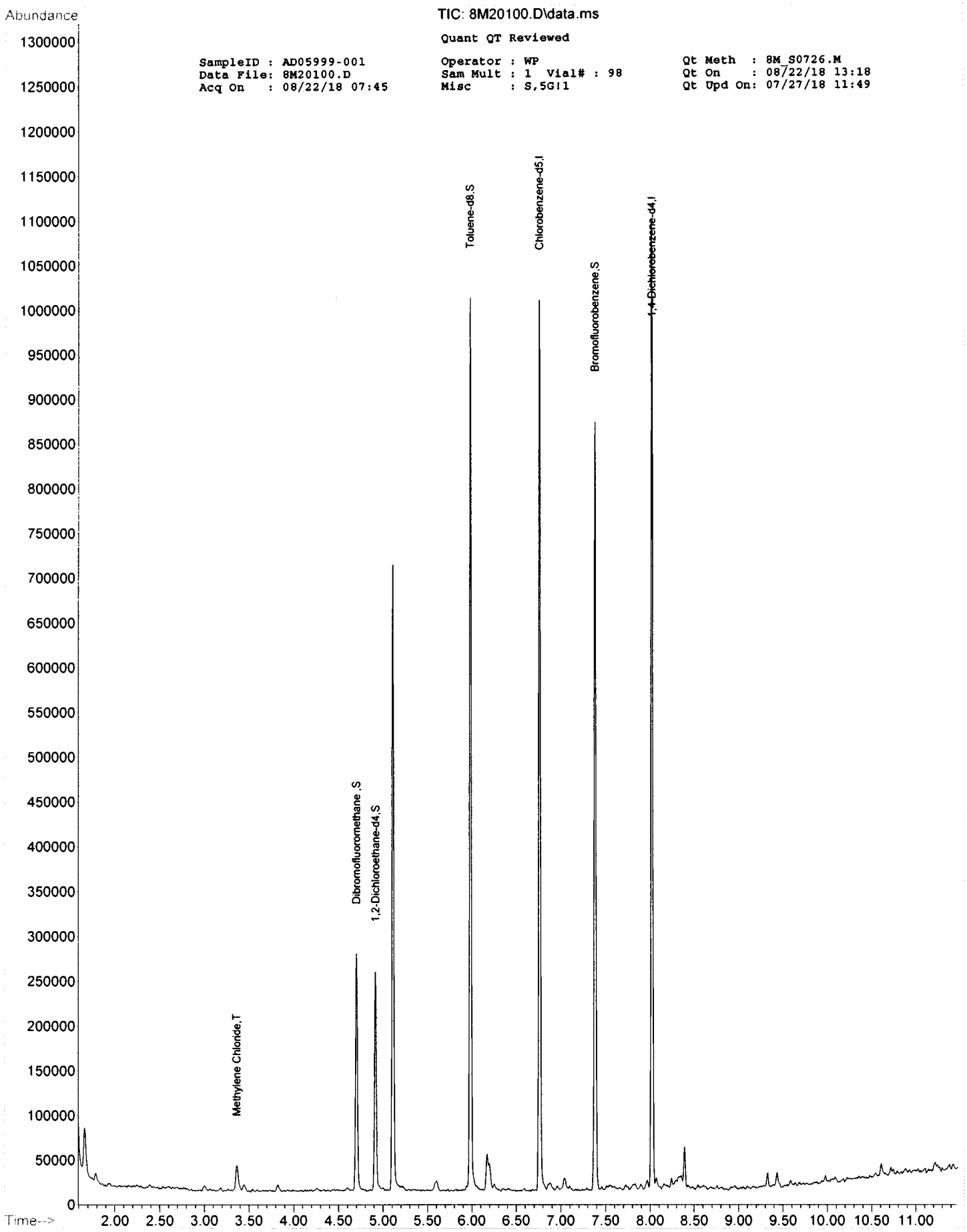
Abundance
TIC: 8M20100.D\data.ms
Quant QT Reviewed
SampleID : AD05999-001
Data File: 8M20100.D
Acq On : 08/22/18 07:45
Operator : WP
Sam Mult : 1 Vial# : 98
Misc : S,5G!1
Qt Meth : 8M_S0726.M
Qt On : 08/22/18 13:18
Qt Upd On: 07/27/18 11:49
Methylene Chloride,T
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 8M20083.D
Analysis Date: 08/22/18 01:52
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	75-15-0	Carbon Disulfide	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	75-00-3	Chloroethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	67-66-3	Chloroform	0.0020	U
96-18-4	1,2,3-Trichloropropane	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
107-06-2	1,2-Dichloroethane	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79601-23-1	m&p-Xylenes	0.0010	U
142-28-9	1,3-Dichloropropane	0.0020	U	75-09-2	Methylene Chloride	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	95-47-6	o-Xylene	0.0010	U
594-20-7	2,2-Dichloropropane	0.0020	U	127-18-4	Tetrachloroethene	0.0020	U
78-93-3	2-Butanone	0.0020	U	108-88-3	Toluene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	79-01-6	Trichloroethene	0.0020	U
67-64-1	Acetone	0.010	U	75-01-4	Vinyl Chloride	0.0020	U
71-43-2	Benzene	0.0010	U				

Worksheet #: 477187

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT/LSC Reviewed) **8081617 0020**

SampleID : DAILY BLANK
Data File: 8M20083.D
Acq On : 08/22/18 01:52

Operator : WP
Sam Mult : 1 Vial# : 98
Misc : S,5G

Qt Meth : 8M_S0726.M
Qt On : 08/22/18 13:17
Qt Upd On: 07/27/18 11:49

Data Path : G:\GcMsData\2018\GCMS_8\Data\0822-18\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.111	96	581280	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.761	117	542609	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.021	152	287567	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.700	111	150981	30.05	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.17%			
39) 1,2-Dichloroethane-d4	4.915	67	76252	26.56	ug/l	0.00
Spiked Amount 30.000			Recovery = 88.53%			
66) Toluene-d8	5.983	98	620343	29.21	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.37%			
76) Bromofluorobenzene	7.381	174	214709	31.34	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.47%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

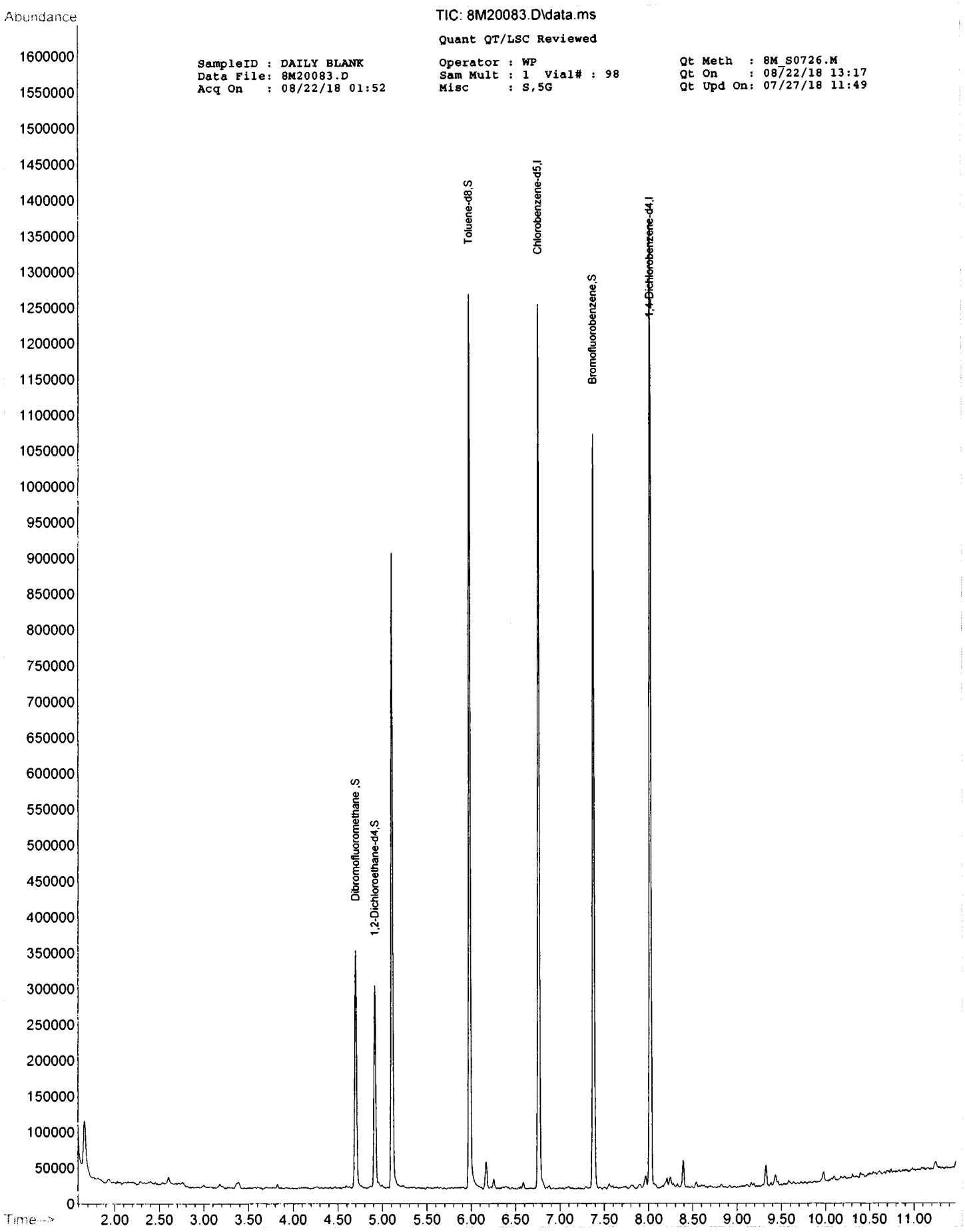
Abundance
TIC: 8M20083.D\data.ms
Quant QT/LSC Reviewed
SampleID : DAILY BLANK
Data File: 8M20083.D
Acq On : 08/22/18 01:52
Operator : WP
Sam Mult : 1 Vial# : 98
Misc : S,5G
Qt Meth : 8M_S0726.M
Qt On : 08/22/18 13:17
Qt Upd On: 07/27/18 11:49
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8260C

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8M20083.D	DAILY BLANK	S	08/22/18 01:52	1		100	89	97	104		
8M20100.D	AD05999-001	S	08/22/18 07:45	1		105	96	98	104		
8M20084.D	AD06068-002	S	08/22/18 02:13	1		103	95	98	106		
8M20087.D	MBS70991	S	08/22/18 03:15	1		104	96	100	103		
8M20088.D	AD06068-002(MS)	S	08/22/18 03:36	1		100	91	100	104		
8M20089.D	AD06068-002(MSD)	S	08/22/18 03:57	1		104	92	100	104		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260C

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	63-140
S2=1,2-Dichloroethane-d4	30	63-143
S3=Toluene-d8	30	68-122
S4=Bromofluorobenzene	30	64-129

Form3
Recovery Data Laboratory Limits
QC Batch: MBS70991

Data File	Sample ID:	Analysis Date
Spike or Dup: 8M20087.D	MBS70991	8/22/2018 3:15:00 AM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	76.9615	0	50	154*	20	130
Dichlorodifluoromethane	1	27.4529	0	50	55	20	130
Chloromethane	1	37.9321	0	50	76	20	130
Bromomethane	1	50.8322	0	50	102	20	130
Vinyl Chloride	1	44.4689	0	50	89	20	130
Chloroethane	1	49.9237	0	50	100	20	130
Trichlorofluoromethane	1	47.568	0	50	95	20	130
Ethyl ether	1	45.1077	0	50	90	50	130
Furan	1	41.322	0	50	83	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	61.4754	0	50	123	50	130
Methylene Chloride	1	50.2304	0	50	100	50	130
Acrolein	1	213.075	0	200	107	20	130
Acrylonitrile	1	48.2674	0	50	97	20	130
Iodomethane	1	46.8678	0	50	94	50	130
Acetone	1	207.2282	0	200	104	20	130
Carbon Disulfide	1	43.1451	0	50	86	50	130
t-Butyl Alcohol	1	215.3735	0	200	108	20	130
n-Hexane	1	62.5012	0	50	125	50	130
Di-isopropyl-ether	1	47.7478	0	50	95	50	130
1,1-Dichloroethene	1	43.7357	0	50	87	50	130
Methyl Acetate	1	44.1116	0	50	88	50	130
Methyl-t-butyl ether	1	54.8978	0	50	110	50	130
1,1-Dichloroethane	1	46.3209	0	50	93	50	130
trans-1,2-Dichloroethene	1	49.9898	0	50	100	50	130
Ethyl-t-butyl ether	1	48.5135	0	50	97	50	130
cis-1,2-Dichloroethene	1	47.3622	0	50	95	50	130
Bromochloromethane	1	45.7627	0	50	92	50	130
2,2-Dichloropropane	1	48.0523	0	50	96	50	130
Ethyl acetate	1	46.2276	0	50	92	50	130
1,4-Dioxane	1	2370.052	0	2500	95	50	130
1,1-Dichloropropene	1	47.6335	0	50	95	50	130
Chloroform	1	48.8442	0	50	98	50	130
Cyclohexane	1	46.9564	0	50	94	50	130
1,2-Dichloroethane	1	47.3	0	50	95	50	130
2-Butanone	1	40.8492	0	50	82	20	130
1,1,1-Trichloroethane	1	48.4876	0	50	97	50	130
Carbon Tetrachloride	1	49.2392	0	50	98	50	130
Vinyl Acetate	1	44.3328	0	50	89	50	130
Bromodichloromethane	1	50.3582	0	50	101	50	130
Methylcyclohexane	1	49.5675	0	50	99	50	130
Dibromomethane	1	56.4587	0	50	113	50	130
1,2-Dichloropropane	1	48.3909	0	50	97	50	130
Trichloroethene	1	51.0408	0	50	102	50	130
Benzene	1	49.7673	0	50	100	50	130
tert-Amyl methyl ether	1	51.7294	0	50	103	50	130
Iso-propylacetate	1	46.4086	0	50	93	50	130
Methyl methacrylate	1	46.3444	0	50	93	50	130
Dibromochloromethane	1	52.5871	0	50	105	50	130
2-Chloroethylvinylether	1	51.1047	0	50	102	50	130
cis-1,3-Dichloropropene	1	49.0302	0	50	98	50	130
trans-1,3-Dichloropropene	1	49.0118	0	50	98	50	130
Ethyl methacrylate	1	43.4706	0	50	87	50	130
1,1,2-Trichloroethane	1	51.8441	0	50	104	50	130
1,2-Dibromoethane	1	51.0392	0	50	102	50	130
1,3-Dichloropropane	1	49.3212	0	50	99	50	130
4-Methyl-2-Pentanone	1	44.9309	0	50	90	20	130
2-Hexanone	1	44.7344	0	50	89	20	130
Tetrachloroethene	1	51.9843	0	50	104	50	130
Toluene	1	48.5555	0	50	97	50	130
1,1,1,2-Tetrachloroethane	1	51.6021	0	50	103	50	130
Chlorobenzene	1	50.5313	0	50	101	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS70991

n-Butyl acrylate	1	42.2683	0	50	85	50	130
n-Amyl acetate	1	46.3392	0	50	93	50	130
Bromoform	1	53.5031	0	50	107	20	130
Ethylbenzene	1	48.1418	0	50	96	50	130
1,1,2,2-Tetrachloroethane	1	48.817	0	50	98	50	130
Styrene	1	51.8278	0	50	104	50	130
m&p-Xylenes	1	93.7666	0	100	94	50	130
o-Xylene	1	48.1452	0	50	96	50	130
trans-1,4-Dichloro-2-butene	1	42.7325	0	50	85	20	130
1,3-Dichlorobenzene	1	50.257	0	50	101	50	130
1,4-Dichlorobenzene	1	49.8714	0	50	100	50	130
1,2-Dichlorobenzene	1	50.6428	0	50	101	50	130
Isopropylbenzene	1	51.9369	0	50	104	50	130
Cyclohexanone	1	135.3124	0	250	54	50	130
Camphene	1	50.1343	0	50	100	50	130
1,2,3-Trichloropropane	1	46.5732	0	50	93	50	130
2-Chlorotoluene	1	51.0095	0	50	102	50	130
p-Ethyltoluene	1	49.7328	0	50	99	50	130
4-Chlorotoluene	1	50.3975	0	50	101	50	130
n-Propylbenzene	1	51.3161	0	50	103	50	130
Bromobenzene	1	47.7132	0	50	95	50	130
1,3,5-Trimethylbenzene	1	49.1388	0	50	98	50	130
Butyl methacrylate	1	41.4628	0	50	83	50	130
t-Butylbenzene	1	52.4169	0	50	105	50	130
1,2,4-Trimethylbenzene	1	49.6298	0	50	99	50	130
sec-Butylbenzene	1	54.1206	0	50	108	50	130
4-Isopropyltoluene	1	53.6949	0	50	107	50	130
n-Butylbenzene	1	51.1531	0	50	102	50	130
p-Diethylbenzene	1	52.8101	0	50	106	50	130
1,2,4,5-Tetramethylbenzene	1	53.164	0	50	106	50	130
1,2-Dibromo-3-Chloropropane	1	48.3497	0	50	97	50	130
Camphor	1	494.0095	0	500	99	50	130
Hexachlorobutadiene	1	56.2797	0	50	113	50	130
1,2,4-Trichlorobenzene	1	50.9872	0	50	102	50	130
1,2,3-Trichlorobenzene	1	50.2243	0	50	100	50	130
Naphthalene	1	45.6262	0	50	91	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS70991

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M20088.D	AD06068-002(MS)	8/22/2018 3:36:00 AM
Non Spike(If applicable):	8M20084.D	AD06068-002	8/22/2018 2:13:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	56.9887	0	50	114	20	130
Dichlorodifluoromethane	1	29.3449	0	50	59	20	130
Chloromethane	1	41.8806	0	50	84	20	130
Bromomethane	1	58.6029	0	50	117	20	130
Vinyl Chloride	1	49.2003	0	50	98	20	130
Chloroethane	1	55.2193	0	50	110	20	130
Trichlorofluoromethane	1	51.9224	0	50	104	20	130
Ethyl ether	1	49.5373	0	50	99	50	130
Furan	1	44.8261	0	50	90	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	65.9722	0	50	132*	50	130
Methylene Chloride	1	54.1705	0	50	108	50	130
Acrolein	1	182.3843	0	200	91	20	130
Acrylonitrile	1	50.5578	0	50	101	20	130
Iodomethane	1	52.8838	0	50	106	50	130
Acetone	1	226.7201	0	200	113	20	130
Carbon Disulfide	1	48.0785	0	50	96	50	130
t-Butyl Alcohol	1	237.0333	0	200	119	20	130
n-Hexane	1	66.6697	0	50	133*	50	130
Di-isopropyl-ether	1	51.2061	0	50	102	50	130
1,1-Dichloroethene	1	47.8302	0	50	96	50	130
Methyl Acetate	1	82.3903	0	50	165*	50	130
Methyl-t-butyl ether	1	59.4109	0	50	119	50	130
1,1-Dichloroethane	1	51.5734	0	50	103	50	130
trans-1,2-Dichloroethene	1	54.8616	0	50	110	50	130
Ethyl-t-butyl ether	1	51.6902	0	50	103	50	130
cis-1,2-Dichloroethene	1	49.3658	0	50	99	50	130
Bromochloromethane	1	49.6425	0	50	99	50	130
2,2-Dichloropropane	1	51.9358	0	50	104	50	130
Ethyl acetate	1	19.8675	0	50	40*	50	130
1,4-Dioxane	1	2558.537	0	2500	102	50	130
1,1-Dichloropropene	1	51.9853	0	50	104	50	130
Chloroform	1	52.9946	0	50	106	50	130
Cyclohexane	1	50.7481	0	50	101	50	130
1,2-Dichloroethane	1	51.0174	0	50	102	50	130
2-Butanone	1	48.5254	0	50	97	20	130
1,1,1-Trichloroethane	1	53.1834	0	50	106	50	130
Carbon Tetrachloride	1	54.0378	0	50	108	50	130
Vinyl Acetate	1	31.0428	0	50	62	50	130
Bromodichloromethane	1	56.3104	0	50	113	50	130
Methylcyclohexane	1	53.633	0	50	107	50	130
Dibromomethane	1	61.5686	0	50	123	50	130
1,2-Dichloropropane	1	53.2107	0	50	106	50	130
Trichloroethene	1	57.8309	0	50	116	50	130
Benzene	1	54.7419	0	50	109	50	130
tert-Amyl methyl ether	1	55.6052	0	50	111	50	130
Iso-propylacetate	1	37.4531	0	50	75	50	130
Methyl methacrylate	1	65.6528	0	50	131*	50	130
Dibromochloromethane	1	59.1551	0	50	118	50	130
2-Chloroethylvinylether	1	55.9552	0	50	112	50	130
cis-1,3-Dichloropropene	1	55.1819	0	50	110	50	130
trans-1,3-Dichloropropene	1	54.0948	0	50	108	50	130
Ethyl methacrylate	1	33.5091	0	50	67	50	130
1,1,2-Trichloroethane	1	57.0844	0	50	114	50	130
1,2-Dibromoethane	1	56.3886	0	50	113	50	130
1,3-Dichloropropane	1	55.126	0	50	110	50	130
4-Methyl-2-Pentanone	1	50.0993	0	50	100	20	130
2-Hexanone	1	49.9659	0	50	100	20	130
Tetrachloroethene	1	58.2675	0	50	117	50	130
Toluene	1	53.6774	0	50	107	50	130
1,1,1,2-Tetrachloroethane	1	57.8443	0	50	116	50	130
Chlorobenzene	1	56.2063	0	50	112	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS70991

n-Butyl acrylate	1	19.2672	0	50	39*	50	130
n-Amyl acetate	1	21.3994	0	50	43*	50	130
Bromoform	1	59.1282	0	50	118	20	130
Ethylbenzene	1	53.5893	0	50	107	50	130
1,1,2,2-Tetrachloroethane	1	50.6469	0	50	101	50	130
Styrene	1	57.3114	0	50	115	50	130
m&p-Xylenes	1	104.0683	0	100	104	50	130
o-Xylene	1	53.1828	0	50	106	50	130
trans-1,4-Dichloro-2-butene	1	45.6739	0	50	91	20	130
1,3-Dichlorobenzene	1	55.3176	0	50	111	50	130
1,4-Dichlorobenzene	1	55.2841	0	50	111	50	130
1,2-Dichlorobenzene	1	55.0526	0	50	110	50	130
Isopropylbenzene	1	57.3009	0	50	115	50	130
Cyclohexanone	1	238.1614	0	250	95	50	130
Camphene	1	53.4539	0	50	107	50	130
1,2,3-Trichloropropane	1	51.7972	0	50	104	50	130
2-Chlorotoluene	1	55.866	0	50	112	50	130
p-Ethyltoluene	1	54.3407	0	50	109	50	130
4-Chlorotoluene	1	54.8847	0	50	110	50	130
n-Propylbenzene	1	55.8298	0	50	112	50	130
Bromobenzene	1	52.0821	0	50	104	50	130
1,3,5-Trimethylbenzene	1	53.6035	0	50	107	50	130
Butyl methacrylate	1	33.9985	0	50	68	50	130
t-Butylbenzene	1	56.7766	0	50	114	50	130
1,2,4-Trimethylbenzene	1	53.5593	0	50	107	50	130
sec-Butylbenzene	1	57.9635	0	50	116	50	130
4-Isopropyltoluene	1	58.4368	0	50	117	50	130
n-Butylbenzene	1	55.2672	0	50	111	50	130
p-Diethylbenzene	1	57.416	0	50	115	50	130
1,2,4,5-Tetramethylbenzene	1	57.4098	0	50	115	50	130
1,2-Dibromo-3-Chloropropane	1	56.8676	0	50	114	50	130
Camphor	1	599.5587	0	500	120	50	130
Hexachlorobutadiene	1	60.2011	0	50	120	50	130
1,2,4-Trichlorobenzene	1	54.8222	0	50	110	50	130
1,2,3-Trichlorobenzene	1	53.8702	0	50	108	50	130
Naphthalene	1	50.1948	0	50	100	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS70991

Data File	Sample ID:	Analysis Date
Spike or Dup: 8M20089.D	AD06068-002(MSD)	8/22/2018 3:57:00 AM
Non Spike(If applicable): 8M20084.D	AD06068-002	8/22/2018 2:13:00 AM
Inst Blank(If applicable):		

Method: 8260C Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	58.2636	0	50	117	20	130
Dichlorodifluoromethane	1	29.9739	0	50	60	20	130
Chloromethane	1	42.7818	0	50	86	20	130
Bromomethane	1	58.508	0	50	117	20	130
Vinyl Chloride	1	49.8328	0	50	100	20	130
Chloroethane	1	55.5148	0	50	111	20	130
Trichlorofluoromethane	1	52.859	0	50	106	20	130
Ethyl ether	1	49.7563	0	50	100	50	130
Furan	1	44.9434	0	50	90	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	67.3384	0	50	135*	50	130
Methylene Chloride	1	54.5581	0	50	109	50	130
Acrolein	1	187.3566	0	200	94	20	130
Acrylonitrile	1	52.7185	0	50	105	20	130
Iodomethane	1	54.6758	0	50	109	50	130
Acetone	1	234.7971	0	200	117	20	130
Carbon Disulfide	1	48.9467	0	50	98	50	130
t-Butyl Alcohol	1	242.0818	0	200	121	20	130
n-Hexane	1	71.597	0	50	143*	50	130
Di-isopropyl-ether	1	51.8054	0	50	104	50	130
1,1-Dichloroethene	1	48.1898	0	50	96	50	130
Methyl Acetate	1	81.2909	0	50	163*	50	130
Methyl-t-butyl ether	1	60.6036	0	50	121	50	130
1,1-Dichloroethane	1	52.2435	0	50	104	50	130
trans-1,2-Dichloroethene	1	54.8148	0	50	110	50	130
Ethyl-t-butyl ether	1	53.017	0	50	106	50	130
cis-1,2-Dichloroethene	1	49.6774	0	50	99	50	130
Bromochloromethane	1	50.7596	0	50	102	50	130
2,2-Dichloropropane	1	51.8884	0	50	104	50	130
Ethyl acetate	1	20.7133	0	50	41*	50	130
1,4-Dioxane	1	2657.906	0	2500	106	50	130
1,1-Dichloropropene	1	52.6172	0	50	105	50	130
Chloroform	1	53.712	0	50	107	50	130
Cyclohexane	1	52.0963	0	50	104	50	130
1,2-Dichloroethane	1	50.9194	0	50	102	50	130
2-Butanone	1	48.8575	0	50	98	20	130
1,1,1-Trichloroethane	1	53.6358	0	50	107	50	130
Carbon Tetrachloride	1	54.1957	0	50	108	50	130
Vinyl Acetate	1	31.5629	0	50	63	50	130
Bromodichloromethane	1	55.259	0	50	111	50	130
Methylcyclohexane	1	55.4569	0	50	111	50	130
Dibromomethane	1	62.3189	0	50	125	50	130
1,2-Dichloropropane	1	52.7289	0	50	105	50	130
Trichloroethene	1	58.8387	0	50	118	50	130
Benzene	1	54.9117	0	50	110	50	130
tert-Amyl methyl ether	1	55.948	0	50	112	50	130
Iso-propylacetate	1	38.7684	0	50	78	50	130
Methyl methacrylate	1	66.8482	0	50	134*	50	130
Dibromochloromethane	1	59.7088	0	50	119	50	130
2-Chloroethylvinylether	1	55.9037	0	50	112	50	130
cis-1,3-Dichloropropene	1	55.4169	0	50	111	50	130
trans-1,3-Dichloropropene	1	54.3358	0	50	109	50	130
Ethyl methacrylate	1	34.0164	0	50	68	50	130
1,1,2-Trichloroethane	1	58.3607	0	50	117	50	130
1,2-Dibromoethane	1	56.9333	0	50	114	50	130
1,3-Dichloropropane	1	55.4269	0	50	111	50	130
4-Methyl-2-Pentanone	1	50.7778	0	50	102	20	130
2-Hexanone	1	50.2456	0	50	100	20	130
Tetrachloroethene	1	60.5614	0	50	121	50	130
Toluene	1	54.1547	0	50	108	50	130
1,1,1,2-Tetrachloroethane	1	59.0313	0	50	118	50	130
Chlorobenzene	1	56.7882	0	50	114	50	130

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Form3
Recovery Data Laboratory Limits
QC Batch: MBS70991

n-Butyl acrylate	1	20.4081	0	50	41*	50	130
n-Amyl acetate	1	22.9415	0	50	46*	50	130
Bromoform	1	59.4641	0	50	119	20	130
Ethylbenzene	1	53.6768	0	50	107	50	130
1,1,2,2-Tetrachloroethane	1	51.7182	0	50	103	50	130
Styrene	1	57.1592	0	50	114	50	130
m&p-Xylenes	1	105.6726	0	100	106	50	130
o-Xylene	1	53.4813	0	50	107	50	130
trans-1,4-Dichloro-2-butene	1	46.5813	0	50	93	20	130
1,3-Dichlorobenzene	1	55.9383	0	50	112	50	130
1,4-Dichlorobenzene	1	55.0325	0	50	110	50	130
1,2-Dichlorobenzene	1	55.3585	0	50	111	50	130
Isopropylbenzene	1	58.0502	0	50	116	50	130
Cyclohexanone	1	243.0123	0	250	97	50	130
Camphene	1	55.6087	0	50	111	50	130
1,2,3-Trichloropropane	1	51.9822	0	50	104	50	130
2-Chlorotoluene	1	56.2034	0	50	112	50	130
p-Ethyltoluene	1	54.9377	0	50	110	50	130
4-Chlorotoluene	1	55.2873	0	50	111	50	130
n-Propylbenzene	1	57.0384	0	50	114	50	130
Bromobenzene	1	52.1442	0	50	104	50	130
1,3,5-Trimethylbenzene	1	54.7092	0	50	109	50	130
Butyl methacrylate	1	34.5499	0	50	69	50	130
t-Butylbenzene	1	58.5689	0	50	117	50	130
1,2,4-Trimethylbenzene	1	54.1267	0	50	108	50	130
sec-Butylbenzene	1	59.7959	0	50	120	50	130
4-Isopropyltoluene	1	60.0813	0	50	120	50	130
n-Butylbenzene	1	57.0399	0	50	114	50	130
p-Diethylbenzene	1	59.5518	0	50	119	50	130
1,2,4,5-Tetramethylbenzene	1	59.2938	0	50	119	50	130
1,2-Dibromo-3-Chloropropane	1	58.5065	0	50	117	50	130
Camphor	1	613.6182	0	500	123	50	130
Hexachlorobutadiene	1	61.9501	0	50	124	50	130
1,2,4-Trichlorobenzene	1	55.8948	0	50	112	50	130
1,2,3-Trichlorobenzene	1	54.4538	0	50	109	50	130
Naphthalene	1	51.4899	0	50	103	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: MBS70991

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M20089.D	AD06068-002(MSD)	8/22/2018 3:57:00 AM
Duplicate(If applicable):	8M20088.D	AD06068-002(MS)	8/22/2018 3:36:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	58.2636	56.9887	2.2	30
Dichlorodifluoromethane	1	29.9739	29.3449	2.1	30
Chloromethane	1	42.7818	41.8806	2.1	30
Bromomethane	1	58.508	58.6029	0.16	30
Vinyl Chloride	1	49.8328	49.2003	1.3	40
Chloroethane	1	55.5148	55.2193	0.53	30
Trichlorofluoromethane	1	52.859	51.9224	1.8	30
Ethyl ether	1	49.7563	49.5373	0.44	30
Furan	1	44.9434	44.8261	0.26	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	67.3384	65.9722	2	30
Methylene Chloride	1	54.5581	54.1705	0.71	30
Acrolein	1	187.3566	182.3843	2.7	30
Acrylonitrile	1	52.7185	50.5578	4.2	30
Iodomethane	1	54.6758	52.8838	3.3	30
Acetone	1	234.7971	226.7201	3.5	30
Carbon Disulfide	1	48.9467	48.0785	1.8	30
t-Butyl Alcohol	1	242.0818	237.0333	2.1	30
n-Hexane	1	71.597	66.6697	7.1	30
Di-isopropyl-ether	1	51.8054	51.2061	1.2	30
1,1-Dichloroethene	1	48.1898	47.8302	0.75	40
Methyl Acetate	1	81.2909	82.3903	1.3	30
Methyl-t-butyl ether	1	60.6036	59.4109	2	30
1,1-Dichloroethane	1	52.2435	51.5734	1.3	40
trans-1,2-Dichloroethene	1	54.8148	54.8616	0.09	30
Ethyl-t-butyl ether	1	53.017	51.6902	2.5	30
cis-1,2-Dichloroethene	1	49.6774	49.3658	0.63	30
Bromochloromethane	1	50.7596	49.6425	2.2	30
2,2-Dichloropropane	1	51.8884	51.9358	0.09	30
Ethyl acetate	1	20.7133	19.8675	4.2	30
1,4-Dioxane	1	2657.906	2558.537	3.8	30
1,1-Dichloropropene	1	52.6172	51.9853	1.2	30
Chloroform	1	53.712	52.9946	1.3	40
Cyclohexane	1	52.0963	50.7481	2.6	30
1,2-Dichloroethane	1	50.9194	51.0174	0.19	40
2-Butanone	1	48.8575	48.5254	0.68	40
1,1,1-Trichloroethane	1	53.6358	53.1834	0.85	30
Carbon Tetrachloride	1	54.1957	54.0378	0.29	40
Vinyl Acetate	1	31.5629	31.0428	1.7	30
Bromodichloromethane	1	55.259	56.3104	1.9	30
Methylcyclohexane	1	55.4569	53.633	3.3	30
Dibromomethane	1	62.3189	61.5686	1.2	30
1,2-Dichloropropane	1	52.7289	53.2107	0.91	30
Trichloroethene	1	58.8387	57.8309	1.7	40
Benzene	1	54.9117	54.7419	0.31	40
tert-Amyl methyl ether	1	55.948	55.6052	0.61	30
Iso-propylacetate	1	38.7684	37.4531	3.5	30
Methyl methacrylate	1	66.8482	65.6528	1.8	30
Dibromochloromethane	1	59.7088	59.1551	0.93	30
2-Chloroethylvinylether	1	55.9037	55.9552	0.09	30
cis-1,3-Dichloropropene	1	55.4169	55.1819	0.42	30
trans-1,3-Dichloropropene	1	54.3358	54.0948	0.44	30
Ethyl methacrylate	1	34.0164	33.5091	1.5	30
1,1,2-Trichloroethane	1	58.3607	57.0844	2.2	30
1,2-Dibromoethane	1	56.9333	56.3886	0.96	30
1,3-Dichloropropane	1	55.4269	55.126	0.54	30
4-Methyl-2-Pentanone	1	50.7778	50.0993	1.3	30
2-Hexanone	1	50.2456	49.9659	0.56	30
Tetrachloroethene	1	60.5614	58.2675	3.9	40
Toluene	1	54.1547	53.6774	0.89	40
1,1,1,2-Tetrachloroethane	1	59.0313	57.8443	2	30
Chlorobenzene	1	56.7882	56.2063	1	40
n-Butyl acrylate	1	20.4081	19.2672	5.8	30
n-Amyl acetate	1	22.9415	21.3994	7	30

Form3
RPD Data Laboratory Limits
QC Batch: MBS70991

Bromoform	1	59.4641	59.1282	0.57	30
Ethylbenzene	1	53.6768	53.5893	0.16	30
1,1,2,2-Tetrachloroethane	1	51.7182	50.6469	2.1	30
Styrene	1	57.1592	57.3114	0.27	30
m&p-Xylenes	1	105.6726	104.0683	1.5	30
o-Xylene	1	53.4813	53.1828	0.56	30
trans-1,4-Dichloro-2-butene	1	46.5813	45.6739	2	30
1,3-Dichlorobenzene	1	55.9383	55.3176	1.1	30
1,4-Dichlorobenzene	1	55.0325	55.2841	0.46	40
1,2-Dichlorobenzene	1	55.3585	55.0526	0.55	40
Isopropylbenzene	1	58.0502	57.3009	1.3	30
Cyclohexanone	1	243.0123	238.1614	2	30
Camphene	1	55.6087	53.4539	4	30
1,2,3-Trichloropropane	1	51.9822	51.7972	0.36	30
2-Chlorotoluene	1	56.2034	55.866	0.6	30
p-Ethyltoluene	1	54.9377	54.3407	1.1	30
4-Chlorotoluene	1	55.2873	54.8847	0.73	30
n-Propylbenzene	1	57.0384	55.8298	2.1	40
Bromobenzene	1	52.1442	52.0821	0.12	30
1,3,5-Trimethylbenzene	1	54.7092	53.6035	2	30
Butyl methacrylate	1	34.5499	33.9985	1.6	30
t-Butylbenzene	1	58.5689	56.7766	3.1	30
1,2,4-Trimethylbenzene	1	54.1267	53.5593	1.1	30
sec-Butylbenzene	1	59.7959	57.9635	3.1	40
4-Isopropyltoluene	1	60.0813	58.4368	2.8	30
n-Butylbenzene	1	57.0399	55.2672	3.2	30
p-Diethylbenzene	1	59.5518	57.416	3.7	30
1,2,4,5-Tetramethylbenzene	1	59.2938	57.4098	3.2	30
1,2-Dibromo-3-Chloropropane	1	58.5065	56.8676	2.8	30
Camphor	1	613.6182	599.5587	2.3	30
Hexachlorobutadiene	1	61.9501	60.2011	2.9	30
1,2,4-Trichlorobenzene	1	55.8948	54.8222	1.9	30
1,2,3-Trichlorobenzene	1	54.4538	53.8702	1.1	30
Naphthalene	1	51.4899	50.1948	2.5	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 8M20083.D
Matrix: Soil

Blank Analysis Date: 08/22/18 01:52
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260C

Sample Number	Data File	Analysis Date
AD05999-001	8M20100.D	08/22/18 07:45
AD06068-002(MSD	8M20089.D	08/22/18 03:57
AD06068-002(MS)	8M20088.D	08/22/18 03:36
MBS70991	8M20087.D	08/22/18 03:15
AD06068-002	8M20084.D	08/22/18 02:13

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 8

Data File: 8M18958.D
Analysis Date: 07/26/18 17:03
Method: EPA 8260C

Tune Scan/Time Range: Average of 7.359 to 7.375 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	20.4	17022	PASS
75	95	30	60	51.3	42786	PASS
95	95	100	100	100.0	83458	PASS
96	95	5	9	7.4	6166	PASS
173	174	0.00	2	0.3	147	PASS
174	95	50	100	67.4	56241	PASS
175	174	5	9	8.1	4583	PASS
176	174	95	101	96.1	54047	PASS
177	176	5	9	6.6	3562	PASS

Data File	Sample Number	Analysis Date:
8M18960.D	CAL @ 0.5 PPB	07/26/18 17:39
8M18961.D	CAL @ 1 PPB	07/26/18 18:00
8M18962.D	CAL @ 2 PPB	07/26/18 18:21
8M18963.D	CAL @ 5 PPB	07/26/18 18:42
8M18964.D	CAL @ 20 PPB	07/26/18 19:02
8M18965.D	CAL @ 50 PPB	07/26/18 19:23
8M18966.D	CAL @ 500 PPB	07/26/18 19:44
8M18969.D	CAL @ 250 PPB	07/26/18 20:46
8M18972.D	CAL @ 100 PPB	07/26/18 21:48
8M18975.D	ICV	07/26/18 22:50
8M18979.D	daily blank	07/27/18 00:13

Data Path : G:\GcMsData\2018\GCMS_8\Data\07-2618\
Data File : 8M18958.D
Acq On : 26 Jul 2018 17:03
Operator : SG
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 26 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2018\GCMS_8\MethodQt\8M_S0707.M
Title : @GCMS_8,ug,624,8260
Last Update : Mon Jul 09 11:12:07 2018

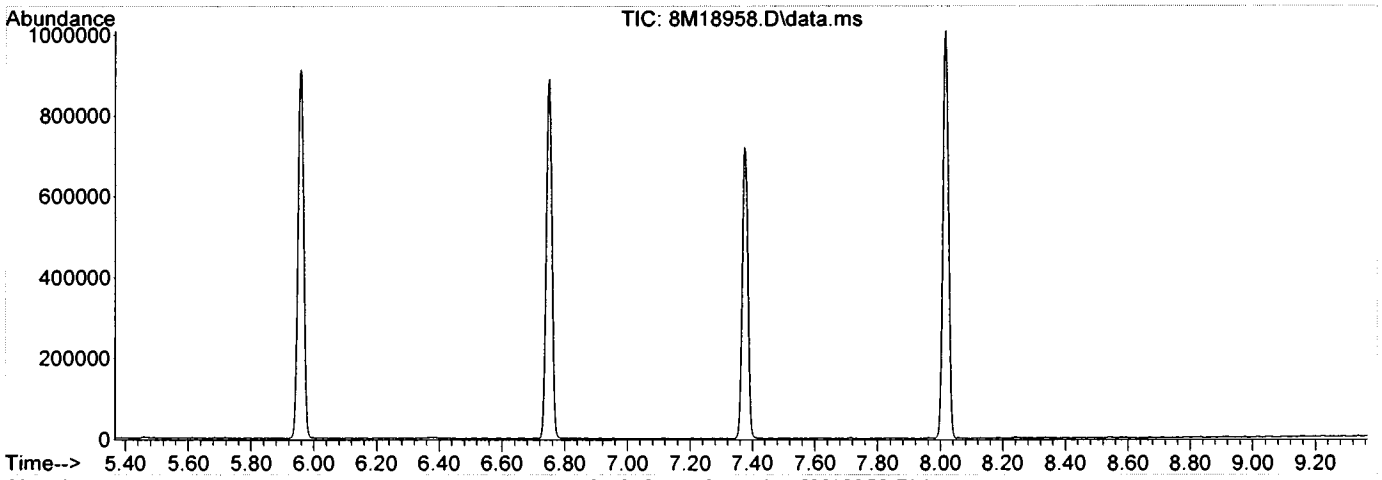

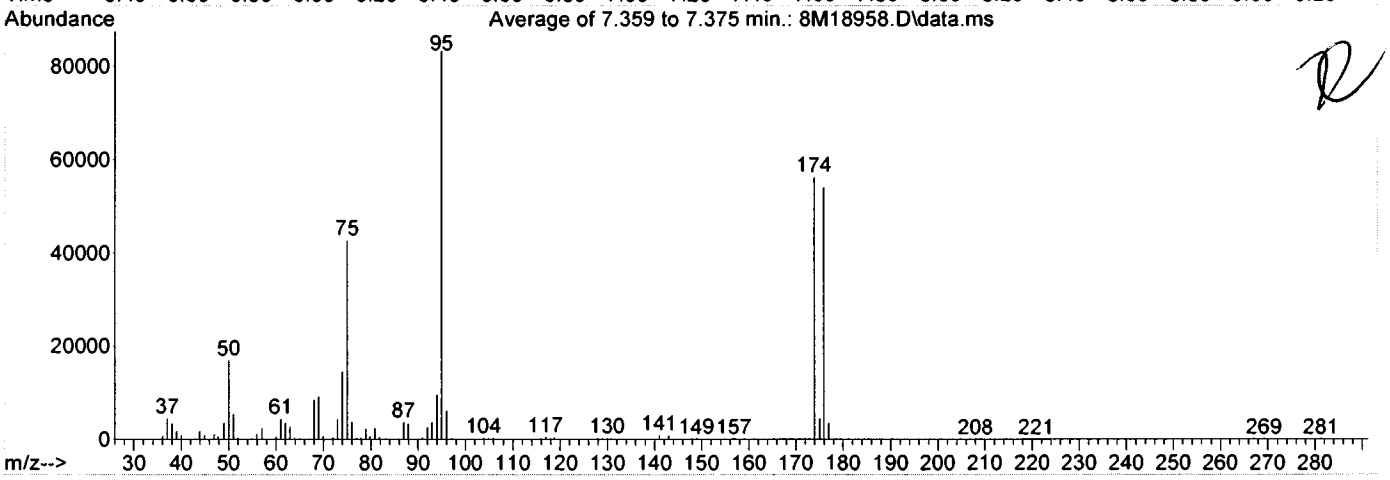

Spectrum Information: Average of 7.359 to 7.375 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.4	17022	PASS
75	95	30	60	51.3	42786	PASS
95	95	100	100	100.0	83458	PASS
96	95	5	9	7.4	6166	PASS
173	174	0.00	2	0.3	147	PASS
174	95	50	100	67.4	56241	PASS
175	174	5	9	8.1	4583	PASS
176	174	95	101	96.1	54047	PASS
177	176	5	9	6.6	3562	PASS

Form 5

Tune Name: BFB TUNE **Data File:** 8M20078.D
Instrument: GCMS 8 **Analysis Date:** 08/22/18 00:09
Method: EPA 8260C
Tune Scan/Time Range: Average of 7.362 to 7.397 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	16.1	18859	PASS
75	95	30	60	47.0	54914	PASS
95	95	100	100	100.0	116836	PASS
96	95	5	9	6.7	7836	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	79.8	93193	PASS
175	174	5	9	7.5	6974	PASS
176	174	95	101	96.4	89857	PASS
177	176	5	9	7.1	6407	PASS

Data File	Sample Number	Analysis Date:
8M20079.D	50 PPB	08/22/18 00:29
8M20080.D	CAL @ 50 PPB	08/22/18 00:50
8M20081.D	BLK	08/22/18 01:11
8M20082.D	BLK	08/22/18 01:32
8M20083.D	DAILY BLANK	08/22/18 01:52
8M20084.D	AD06068-002	08/22/18 02:13
8M20085.D	AD05993-006	08/22/18 02:34
8M20086.D	AD05993-007	08/22/18 02:55
8M20087.D	MBS70991	08/22/18 03:15
8M20088.D	AD06068-002(MS)	08/22/18 03:36
8M20089.D	AD06068-002(MSD	08/22/18 03:57
8M20090.D	BLK	08/22/18 04:18
8M20091.D	AD05993-008	08/22/18 04:38
8M20092.D	AD05993-009	08/22/18 04:59
8M20093.D	AD05993-010	08/22/18 05:20
8M20094.D	AD05993-011	08/22/18 05:41
8M20095.D	AD05993-012	08/22/18 06:01
8M20096.D	AD05993-013	08/22/18 06:22
8M20097.D	AD05993-014	08/22/18 06:43
8M20098.D	AD06019-004	08/22/18 07:04
8M20099.D	AD06019-005	08/22/18 07:24
8M20100.D	AD05999-001	08/22/18 07:45
8M20101.D	AD05999-002	08/22/18 08:06
8M20102.D	AD06051-001	08/22/18 08:27
8M20103.D	AD06051-002	08/22/18 08:48
8M20104.D	AD06051-003	08/22/18 09:08
8M20105.D	AD06051-004	08/22/18 09:29
8M20106.D	AD06051-005	08/22/18 09:50
8M20107.D	AD06065-001	08/22/18 10:11
8M20108.D	AD06051-001	08/22/18 10:32
8M20109.D	AD06051-002	08/22/18 10:52
8M20110.D	AD06051-003	08/22/18 11:13
8M20111.D	AD06051-004	08/22/18 11:34
8M20112.D	AD06051-005	08/22/18 11:55
8M20113.D	BLK	08/22/18 12:16

Data Path : G:\GcMsData\2018\GCMS_8\Data\0822-18\
Data File : 8M20078.D
Acq On : 22 Aug 2018 00:09
Operator : WP
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 98 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2018\GCMS_8\MethodQt\8M_S0726.M
Title : @GCMS_8,ug,624,8260
Last Update : Fri Jul 27 11:46:31 2018

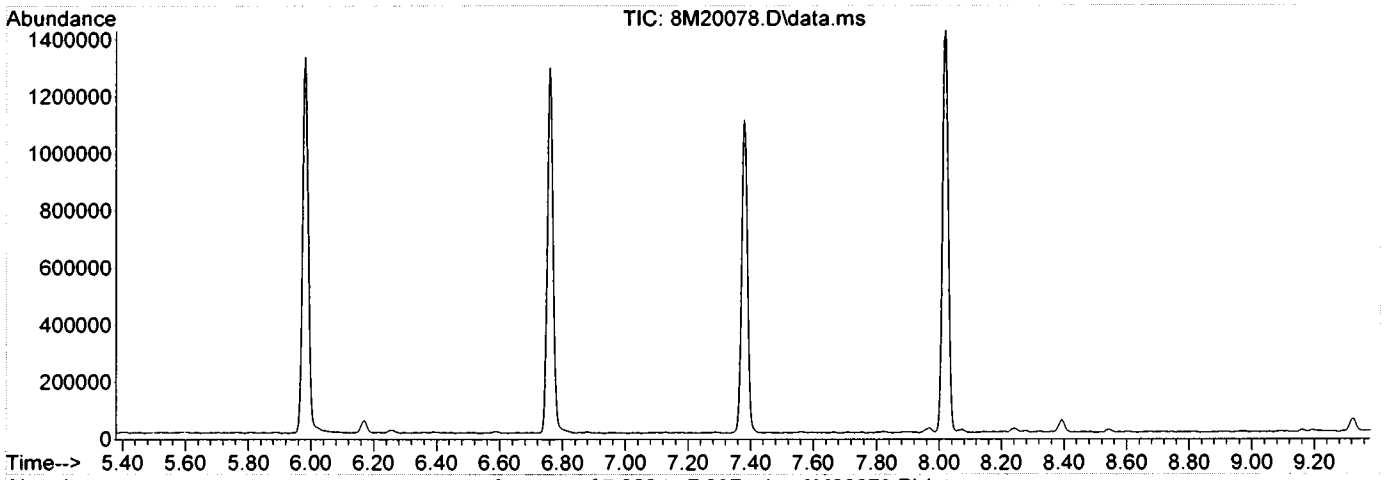

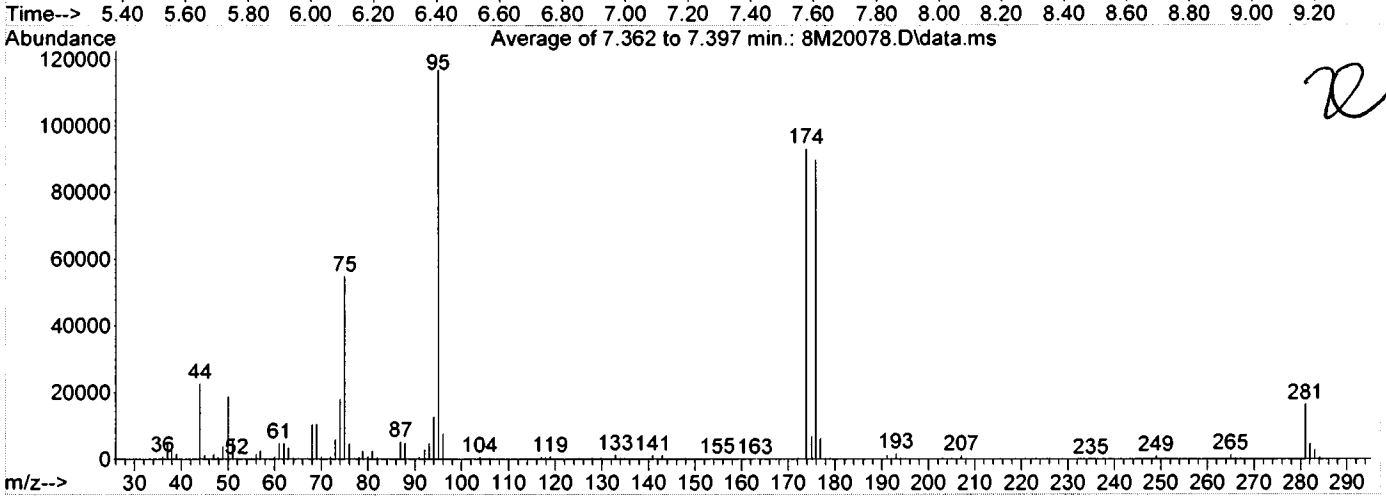

Spectrum Information: Average of 7.362 to 7.397 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.1	18859	PASS
75	95	30	60	47.0	54914	PASS
95	95	100	100	100.0	116836	PASS
96	95	5	9	6.7	7836	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	79.8	93193	PASS
175	174	5	9	7.5	6974	PASS
176	174	95	101	96.4	89857	PASS
177	176	5	9	7.1	6407	PASS

8081617 0036

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8M18964.D	CAL @ 20 PPB	07/26/18 19:02	2	8M18963.D	CAL @ 5 PPB	07/26/18 18:42
3	8M18962.D	CAL @ 2 PPB	07/26/18 18:21	4	8M18965.D	CAL @ 50 PPB	07/26/18 19:23
5	8M18972.D	CAL @ 100 PPB	07/26/18 21:48	6	8M18969.D	CAL @ 250 PPB	07/26/18 20:46
7	8M18966.D	CAL @ 500 PPB	07/26/18 19:44	8	8M18961.D	CAL @ 1 PPB	07/26/18 18:00
9	8M18960.D	CAL @ 0.5 PPB	07/26/18 17:39				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.4318	0.4212	0.4828	0.4372	0.4434	0.4655	0.4517	-----	-----	0.448	1.71	1.00	1.00	4.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dichlorodifluorometha	1	0	Avg	0.4372	0.4579	0.5291	0.4639	0.4834	0.4841	0.4681	-----	-----	0.475	1.69	1.00	1.00	6.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloromethane	1	0	Avg	0.4800	0.4818	0.5117	0.4870	0.5250	0.5389	0.4915	-----	-----	0.502	1.86	0.998	1.00	4.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromomethane	1	0	Avg	0.2067	0.2319	0.2733	0.2178	0.2463	0.2703	0.2381	-----	-----	0.241	2.24	0.996	0.999	10	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Chloride	1	0	Avg	0.4371	0.4196	0.4834	0.4529	0.4954	0.5084	0.4645	-----	-----	0.466	1.95	0.998	1.00	6.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroethane	1	0	Avg	0.2429	0.2421	0.2663	0.2410	0.2622	0.2704	0.2370	-----	-----	0.252	2.32	0.995	0.999	5.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichlorofluoromethan	1	0	Avg	0.5132	0.5319	0.6790	0.5243	0.5626	0.5595	0.5239	-----	-----	0.556	2.54	0.999	1.00	10	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl ether	1	0	Avg	0.3179	0.3206	0.3188	0.3135	0.3324	0.3459	0.3292	-----	-----	0.326	2.77	0.999	1.00	3.4	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Furan	1	0	Avg	0.6556	0.6582	0.6754	0.6635	0.6764	0.6987	0.6694	-----	-----	0.671	2.81	1.00	1.00	2.2	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1931	0.1948	0.2464	0.1989	0.2165	0.2122	0.2014	-----	-----	0.209	2.96	0.999	1.00	8.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methylene Chloride	1	0	Avg	0.3596	0.3543	0.3915	0.3536	0.3719	0.3865	0.3718	-----	-----	0.370	3.37	1.00	1.00	4.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acrolein	1	0	Avg	0.0647	0.0604	0.0625	0.0612	0.0625	0.0659	0.0630	-----	-----	0.0629	2.88	0.999	1.00	3.1		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Acrylonitrile	1	0	Avg	0.1341	0.1317	0.1461	0.1317	0.1343	0.1420	0.1365	-----	-----	0.137	3.56	1.00	1.00	4.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iodomethane	1	0	Qua	0.2644	0.1823	0.1448	0.3105	0.3403	0.3809	0.3571	-----	-----	0.283	3.11	0.999	0.999	32		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acetone	1	0	Qua	0.1172	0.1163	0.1911	0.1090	0.1080	0.1123	0.1061	-----	-----	0.123	3.00	0.999	1.00	25	0.10	100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Carbon Disulfide	1	0	Avg	1.0635	1.0883	1.3721	1.0778	1.1517	1.1475	1.0819	-----	-----	1.14	3.18	0.999	1.00	9.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butyl Alcohol	1	0	Avg	0.0503	0.0487	0.0648	0.0475	0.0496	0.0526	0.0493	-----	-----	0.0519	3.43	0.999	1.00	11		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
n-Hexane	1	0	Avg	0.3105	0.3033	0.4457	0.3124	0.3272	0.3254	0.3102	-----	-----	0.334	3.82	0.999	1.00	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Di-isopropyl-ether	1	0	Avg	1.1460	1.1032	1.1855	1.1716	1.1746	1.2111	1.1556	-----	-----	1.16	3.99	0.999	1.00	2.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1-Dichloroethene	1	0	Avg	0.5304	0.5172	0.6395	0.5318	0.5551	0.5593	0.5442	-----	-----	0.554	2.97	1.00	1.00	7.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl Acetate	1	0	Avg	0.4050	0.4126	0.4500	0.3851	0.3878	0.4012	0.3869	-----	-----	0.404	3.27	1.00	1.00	5.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl-t-butyl ether	1	0	Avg	0.8573	0.8212	0.8356	0.8617	0.8903	0.9348	0.9134	0.8257	-----	0.868	3.59	1.00	1.00	4.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethane	1	0	Avg	0.6733	0.6683	0.7427	0.6797	0.6885	0.7232	0.6859	-----	-----	0.695	3.95	0.999	1.00	4.0	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,2-Dichloroethe	1	0	Avg	0.3328	0.3541	0.3880	0.3382	0.3608	0.3662	0.3485	-----	-----	0.356	3.60	0.999	1.00	5.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl-t-butyl ether	1	0	Avg	1.0423	1.0401	1.0310	1.0620	1.0883	1.1327	1.0858	-----	-----	1.07	4.27	1.00	1.00	3.4	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,2-Dichloroethene	1	0	Avg	0.6459	0.6377	0.6697	0.6477	0.6556	0.6782	0.6553	-----	-----	0.656	4.39	1.00	1.00	2.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromochloromethane	1	0	Avg	0.3205	0.3241	0.3489	0.3193	0.3164	0.3223	0.3163	-----	-----	0.324	4.56	1.00	1.00	3.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2,2-Dichloropropane	1	0	Avg	0.5231	0.5276	0.6026	0.5315	0.5339	0.5591	0.5441	-----	-----	0.546	4.40	1.00	1.00	5.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl acetate	1	0	Avg	0.4258	0.4112	0.4174	0.4091	0.4084	0.4284	0.4163	-----	-----	0.417	4.42	1.00	1.00	1.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dioxane	1	0	Qua	0.0047	0.0046	0.0078	0.0046	0.0048	0.0050	0.0047	-----	-----	0.00521	5.51	0.999	1.00	22		1000.	250.0	100.0	2500.	5000.	1250	2500		
1,1-Dichloropropene	1	0	Avg	0.4764	0.4854	0.5703	0.4875	0.5078	0.5065	0.4932	-----	-----	0.504	4.83	1.00	1.00	6.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroform	1	0	Avg	0.6247	0.6274	0.7479	0.6289	0.6449	0.6638	0.6346	-----	-----	0.653	4.60	0.999	1.00	6.7	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromofluoromethan	1	0	Avg	0.2557	0.2580	0.2561	0.2598	0.2634	0.2603	0.2642	0.2545	0.2613	0.259	4.70	-1	-1	1.3		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.4851	0.4757	0.6316	0.5121	0.5341	0.5156	0.5046	-----	-----	0.523	4.78	1.00	1.00	9.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloroethane-d4	1	0	Avg	0.1497	0.1511	0.1532	0.1472	0.1423	0.1428	0.1438	0.1502	0.1528	0.148	4.91	-1	-1	2.9		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.4824	0.4874	0.5278	0.4733	0.4711	0.4881	0.4941	-----	-----	0.489	4.96	1.00	1.00	3.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Butanone	1	0	Avg	0.1787	0.1746	0.2081	0.1738	0.1753	0.1840	0.1735	-----	-----	0.181	4.39	0.999	1.00	6.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,1-Trichloroethane	1	0	Avg	0.5433	0.5502	0.6201	0.5515	0.5703	0.5817	0.5606	-----	-----	0.568	4.73	1.00	1.00	4.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Carbon Tetrachloride	1	0	Avg	0.4387	0.4150	0.4879	0.4589	0.4838	0.4919	0.4865	-----	-----	0.466	4.84	1.00	1.00	6.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Acetate	1	0	Avg	0.9059	0.8634	0.8931	0.9190	0.9165	0.9597	0.9444	-----	-----	0.915	3.98	1.00	1.00	3.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromodichloromethan	1	0	Avg	0.4655	0.4503	0.4949	0.4716	0.4859	0.5089	0.5083	-----	-----	0.484	5.59	1.00	1.00	4.6	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.36
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Form 6
Initial Calibration

Method: EPA 8260C

Instrument: GCMS_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8M18964.D	CAL @ 20 PPB	07/26/18 19:02	2	8M18963.D	CAL @ 5 PPB	07/26/18 18:42
3	8M18962.D	CAL @ 2 PPB	07/26/18 18:21	4	8M18965.D	CAL @ 50 PPB	07/26/18 19:23
5	8M18972.D	CAL @ 100 PPB	07/26/18 21:48	6	8M18969.D	CAL @ 250 PPB	07/26/18 20:46
7	8M18966.D	CAL @ 500 PPB	07/26/18 19:44	8	8M18961.D	CAL @ 1 PPB	07/26/18 18:00
9	8M18960.D	CAL @ 0.5 PPB	07/26/18 17:39				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.5237	0.4896	0.5790	0.5336	0.5726	0.5573	0.5432	-----	-----	0.543	5.44	1.00	1.00	5.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromomethane	1	0	Avg	0.1867	0.1809	0.1923	0.1857	0.1979	0.2065	0.2029	-----	-----	0.193	5.51	1.00	1.00	4.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloropropane	1	0	Avg	0.3843	0.3917	0.4315	0.3848	0.3983	0.4130	0.4070	-----	-----	0.402	5.45	1.00	1.00	4.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichloroethene	1	0	Avg	0.3258	0.3277	0.4010	0.3332	0.3530	0.3647	0.3538	-----	-----	0.351	5.32	1.00	1.00	7.5	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Benzene	1	0	Avg	1.4285	1.4427	1.6501	1.4197	1.4492	1.4359	1.2235	1.5791	-----	1.45	4.96	0.993	1.00	8.6	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
tert-Amyl methyl ether	1	0	Avg	0.9974	0.9642	0.9517	0.9969	1.0105	1.0329	0.9827	-----	-----	0.991	5.00	0.999	1.00	2.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iso-propylacetate	1	0	Avg	0.8718	0.8704	0.8603	0.8603	0.8412	0.8543	0.7881	-----	-----	0.850	4.96	0.998	1.00	3.4	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl methacrylate	1	0	Avg	0.4766	0.4657	0.4444	0.4626	0.4458	0.4534	0.4289	-----	-----	0.454	5.48	0.999	1.00	3.5	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromochloromethan	1	0	Avg	0.3533	0.3587	0.3623	0.3627	0.3786	0.3952	0.3900	-----	-----	0.372	6.45	1.00	1.00	4.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chloroethylvinylethe	1	0	Avg	0.2422	0.2321	0.2511	0.2457	0.2515	0.2598	0.2502	-----	-----	0.248	5.73	1.00	1.00	3.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,3-Dichloropropen	1	0	Avg	0.6321	0.6395	0.6624	0.6446	0.6499	0.6569	0.6261	-----	-----	0.645	5.83	0.999	1.00	2.0	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,3-Dichloroprop	1	0	Avg	0.5851	0.5592	0.6535	0.5919	0.5898	0.6009	0.5851	-----	-----	0.595	6.12	1.00	1.00	4.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl methacrylate	1	0	Avg	0.4407	0.4272	0.4588	0.4368	0.4340	0.4435	0.4357	-----	-----	0.440	6.14	1.00	1.00	2.3	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloroethane	1	0	Avg	0.3198	0.3297	0.3517	0.3188	0.3256	0.3291	0.3214	-----	-----	0.328	6.22	1.00	1.00	3.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromoethane	1	0	Avg	0.3211	0.3238	0.3470	0.3205	0.3314	0.3373	0.3318	0.3501	-----	0.333	6.52	1.00	1.00	3.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.5949	0.5911	0.6436	0.5842	0.5975	0.6037	0.5858	-----	-----	0.600	6.32	1.00	1.00	3.4		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Methyl-2-Pentanone	1	0	Avg	0.4347	0.4291	0.4455	0.4292	0.4284	0.4369	0.4131	-----	-----	0.431	5.90	0.999	1.00	2.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Hexanone	1	0	Avg	0.3328	0.3143	0.3112	0.3150	0.3154	0.3180	0.3052	-----	-----	0.316	6.34	1.00	1.00	2.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Tetrachloroethene	1	0	Avg	0.2586	0.2635	0.3130	0.2629	0.2778	0.2730	0.2598	-----	-----	0.273	6.32	0.999	1.00	7.0	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Toluene-d8	1	0	Avg	1.1907	1.1750	1.1997	1.1841	1.1706	1.1581	1.1196	1.1824	1.1878	1.17	5.98	-1	-1	2.0		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.9011	0.9349	1.1418	0.9097	0.9370	0.9175	0.8445	1.2159	-----	0.975	6.02	0.998	1.00	13	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.3231	0.3247	0.3685	0.3263	0.3403	0.3492	0.3425	-----	-----	0.339	6.81	1.00	1.00	4.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chlorobenzene	1	0	Avg	0.9594	0.9866	1.1775	0.9697	0.9834	0.9743	0.9082	-----	-----	0.994	6.78	0.999	1.00	8.6	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Butyl acrylate	1	0	Avg	1.5934	1.5568	1.6717	1.5358	1.6123	1.6062	1.4363	-----	-----	1.57	7.02	0.997	1.00	4.7	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Amyl acetate	1	0	Avg	1.3804	1.3676	1.4464	1.3211	1.3279	1.3245	1.2067	-----	-----	1.34	7.14	0.998	1.00	5.5	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromoform	1	0	Avg	0.4076	0.4115	0.4536	0.4116	0.4527	0.4689	0.4481	-----	-----	0.436	7.22	0.999	1.00	5.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethylbenzene	1	0	Avg	0.7458	0.7781	0.9067	0.7284	0.7954	0.7824	0.7077	1.0242	-----	0.809	6.82	0.997	1.00	13	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.8936	0.8742	0.9974	0.8367	0.8820	0.8711	0.8215	-----	-----	0.882	7.44	0.999	1.00	6.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromofluorobenzene	1	0	Avg	0.7117	0.7131	0.7344	0.6936	0.7322	0.7251	0.6865	0.7218	0.7129	0.715	7.38	-1	-1	2.3		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.8892	1.9093	2.1727	1.8656	1.9856	1.9469	1.6571	-----	-----	1.92	7.10	0.993	1.00	8.0	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
m&p-Xylenes	1	0	Qua	1.1408	1.1618	1.4413	1.1002	1.1590	1.1072	0.8951	1.6935	2.0471	1.31	6.88	0.988	1.00	28	0.10	40.00	10.00	4.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	1.1030	1.1506	1.3147	1.0884	1.1436	1.1368	1.0575	1.5342	-----	1.19	7.10	0.999	1.00	13	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.4238	0.4328	0.4611	0.4093	0.4254	0.4284	0.4161	-----	-----	0.428	7.46	1.00	1.00	3.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3-Dichlorobenzene	1	0	Avg	1.2575	1.2751	1.4933	1.2769	1.3004	1.3003	1.2529	-----	-----	1.31	7.99	1.00	1.00	6.4	0.60	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dichlorobenzene	1	0	Avg	1.2607	1.2966	1.5792	1.2721	1.2912	1.2810	1.2524	-----	-----	1.32	8.03	1.00	1.00	8.8	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichlorobenzene	1	0	Avg	1.2208	1.3030	1.4136	1.2322	1.2631	1.2542	1.2274	-----	-----	1.27	8.25	1.00	1.00	5.3	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Isopropylbenzene	1	0	Avg	2.8618	2.8266	3.1417	2.8027	2.9463	2.7702	1.9832	3.4880	-----	2.85	7.29	0.967	0.999	15	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.1015	0.1031	0.1193	0.0937	0.0953	0.1014	0.0868	-----	-----	0.100	7.36	0.994	0.999	10		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Camphene	1	0	Avg	1.2438	1.1280	1.2454	1.2548	1.3610	1.3377	1.2457	-----	-----	1.26	7.46	0.999	1.00	6.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichloropropane	1	0	Avg	1.1300	1.0974	1.2315	1.0572	1.0940	1.1244	1.0667	-----	-----	1.11	7.47	0.999	1.00	5.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chlorotoluene	1	0	Avg	1.7456	1.8440	2.0813	1.7436	1.7950	1.7235	1.2010	-----	-----	1.73	7.58	0.960	0.998	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.36
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8M18964.D	CAL @ 20 PPB	07/26/18 19:02	2	8M18963.D	CAL @ 5 PPB	07/26/18 18:42
3	8M18962.D	CAL @ 2 PPB	07/26/18 18:21	4	8M18965.D	CAL @ 50 PPB	07/26/18 19:23
5	8M18972.D	CAL @ 100 PPB	07/26/18 21:48	6	8M18969.D	CAL @ 250 PPB	07/26/18 20:46
7	8M18966.D	CAL @ 500 PPB	07/26/18 19:44	8	8M18961.D	CAL @ 1 PPB	07/26/18 18:00
9	8M18960.D	CAL @ 0.5 PPB	07/26/18 17:39				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	3.0952	3.1699	3.5721	3.0538	3.1225	2.9197	1.9570	-----	-----	2.98	7.57	0.949	0.999	17		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Chlorotoluene	1	0	Avg	1.7071	1.7100	1.9803	1.6900	1.7203	1.6534	1.2093	-----	-----	1.67	7.63	0.970	0.999	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Propylbenzene	1	0	Avg	3.4781	3.5680	4.0510	3.4557	3.5195	3.2017	2.0876	4.4789	-----	3.48	7.51	0.942	0.999	20		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.9892	2.0332	2.3241	1.9456	2.0058	1.9951	1.8954	-----	-----	2.03	7.48	0.999	1.00	6.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3,5-Trimethylbenzen	1	0	Avg	2.1981	2.2341	2.4881	2.2006	2.2946	2.2290	1.6286	2.7940	-----	2.26	7.59	0.972	0.999	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	1.0435	1.0049	1.0857	1.0462	1.0448	1.0319	1.0393	-----	-----	1.04	7.60	1.00	1.00	2.3	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butylbenzene	1	0	Avg	2.2805	2.2265	2.4737	2.2986	2.4262	2.3697	2.0538	2.6731	-----	2.35	7.78	0.995	1.00	7.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	2.4223	2.4896	2.9070	2.4207	2.4800	2.3835	1.8794	3.2217	-----	2.53	7.81	0.984	0.999	16		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	3.0325	3.0485	3.2583	3.0880	3.2111	2.9996	2.0515	3.5373	-----	3.03	7.90	0.956	0.999	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	2.4799	2.4098	2.6241	2.5307	2.6306	2.5283	1.9056	2.7860	-----	2.49	7.97	0.977	0.999	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	3.0151	2.9100	3.2535	3.0780	3.1030	2.9838	2.3429	3.5533	-----	3.03	8.20	0.984	1.00	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	1.5570	1.5222	1.6274	1.6340	1.6710	1.6798	1.5747	-----	-----	1.61	8.18	0.999	1.00	3.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4,5-Tetramethylbe	1	0	Avg	2.2980	2.2404	2.2443	2.4455	2.4880	2.4344	1.9178	-----	-----	2.30	8.63	0.984	0.999	8.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromo-3-Chloro	1	0	Avg	0.1804	0.1616	0.1925	0.1737	0.1860	0.1930	0.1855	-----	-----	0.182	8.69	1.00	1.00	6.1	0.05	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Camphor	1	0	Avg	0.1020	0.0952	0.1048	0.1014	0.1074	0.1104	0.1015	-----	-----	0.103	9.11	0.998	1.00	4.7		200.0	50.00	20.00	500.0	1000.	2500.	5000.		
Hexachlorobutadiene	1	0	Avg	0.4241	0.4079	0.4158	0.4325	0.4629	0.4741	0.4710	-----	-----	0.441	9.25	1.00	1.00	6.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4-Trichlorobenzen	1	0	Avg	0.7970	0.8028	0.8994	0.8356	0.8318	0.8420	0.8812	-----	-----	0.841	9.17	1.00	1.00	4.5	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichlorobenzen	1	0	Avg	0.7863	0.7961	0.8733	0.8297	0.8410	0.8440	0.8766	-----	-----	0.835	9.46	1.00	1.00	4.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Naphthalene	1	0	Qua	2.4618	2.4509	2.9933	2.4950	2.5650	2.4603	1.9746	4.8577	-----	2.78	9.32	0.987	1.00	32		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.36
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 8M20080.D **Instrument:** GCMS 8

Cont Calibration Date/Time 8/22/2018 12:50:00 Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.11	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.71	53.10	50	20	0.1	0.448	0.476	6.21	
Dichlorodifluoromethane	1	0		1.70	13.53	50	20	0.1	0.475	0.128	72.94	C1
Chloromethane	1	0		1.86	29.98	50	20	0.1	0.502	0.301	40.04	C1
Bromomethane	1	0		2.24	47.71	50	20	0.1	0.241	0.230	4.59	
Vinyl Chloride	1	0		1.95	35.12	50	20	0.1	0.466	0.327	29.76	C1
Chloroethane	1	0		2.32	45.06	50	20	0.1	0.252	0.227	9.89	
Trichlorofluoromethane	1	0		2.54	37.88	50	20	0.1	0.556	0.422	24.24	C1
Ethyl ether	1	0		2.77	48.09	50	20	0.5	0.326	0.313	3.83	
Furan	1	0		2.81	40.78	50	20	0.5	0.671	0.547	18.44	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.96	37.64	50	20	0.1	0.209	0.157	24.73	C1
Methylene Chloride	1	0		3.36	47.97	50	20	0.1	0.370	0.355	4.07	
Acrolein	1	0		2.88	129.67	250	20		0.063	0.033	48.13	C1
Acrylonitrile	1	0		3.56	42.63	50	20		0.137	0.117	14.74	
Iodomethane	1	0		3.11	42.51	50	20		0.283	0.318	14.98	
Acetone	1	0		3.00	190.33	250	20	0.1	0.123	0.087	23.87	C1
Carbon Disulfide	1	0		3.18	34.93	50	20	0.1	1.140	0.797	30.14	C1
t-Butyl Alcohol	1	0		3.42	214.79	250	20		0.052	0.045	14.09	
n-Hexane	1	0		3.82	32.59	50	20		0.334	0.217	34.83	C1
Di-isopropyl-ether	1	0		3.99	43.36	50	20		1.164	1.010	13.27	
1,1-Dichloroethene	1	0		2.97	37.25	50	20	0.1	0.554	0.413	25.50	C1
Methyl Acetate	1	0		3.27	41.26	50	20	0.1	0.404	0.334	17.48	
Methyl-t-butyl ether	1	0		3.59	47.46	50	20	0.1	0.868	0.823	5.08	
1,1-Dichloroethane	1	0		3.95	44.27	50	20	0.2	0.695	0.615	11.47	
trans-1,2-Dichloroethene	1	0		3.60	45.44	50	20	0.1	0.356	0.323	9.11	
Ethyl-t-butyl ether	1	0		4.27	45.61	50	20	0.5	1.069	0.975	8.78	
cis-1,2-Dichloroethene	1	0		4.39	43.71	50	20	0.1	0.656	0.573	12.58	
Bromochloromethane	1	0		4.55	42.70	50	20		0.324	0.277	14.59	
2,2-Dichloropropane	1	0		4.40	41.74	50	20		0.546	0.456	16.52	
Ethyl acetate	1	0		4.42	41.33	50	20		0.417	0.344	17.34	
1,4-Dioxane	1	0		5.51	2240.81	2500	20		0.005	0.005	10.37	
1,1-Dichloropropene	1	0		4.83	39.80	50	20		0.504	0.401	20.40	
Chloroform	1	0		4.60	45.47	50	20	0.2	0.653	0.594	9.07	
Dibromofluoromethane	1	0	S	4.70	31.45	75	**		0.259	0.272	4.84	
Cyclohexane	1	0		4.78	34.52	50	20	0.1	0.523	0.361	30.95	C1
1,2-Dichloroethane-d4	1	0	S	4.92	27.03	75	**		0.148	0.133	9.91	
1,2-Dichloroethane	1	0		4.96	42.67	50	20	0.1	0.489	0.417	14.66	
2-Butanone	1	0		4.39	43.71	50	20	0.1	0.181	0.158	12.58	
1,1,1-Trichloroethane	1	0		4.74	41.63	50	20	0.1	0.568	0.473	16.74	
Carbon Tetrachloride	1	0		4.84	41.37	50	20	0.1	0.466	0.386	17.26	
Vinyl Acetate	1	0		3.98	40.01	50	20		0.915	0.732	19.99	
Bromodichloromethane	1	0		5.59	45.20	50	20	0.2	0.484	0.437	9.61	
Methylcyclohexane	1	0		5.44	39.15	50	20	0.1	0.543	0.425	21.71	C1
Dibromomethane	1	0		5.51	54.80	50	20		0.193	0.212	9.60	
1,2-Dichloropropane	1	0		5.45	44.52	50	20	0.1	0.402	0.358	10.97	
Trichloroethene	1	0		5.32	46.18	50	20	0.2	0.351	0.325	7.64	
Benzene	1	0		4.96	45.46	50	20	0.5	1.454	1.322	9.09	
tert-Amyl methyl ether	1	0		5.01	47.97	50	20		0.991	0.951	4.05	
Chlorobenzene-d5	1	0	I	6.76	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.96	43.83	50	20	0.5	0.850	0.745	12.33	
Methyl methacrylate	1	0		5.47	43.35	50	20	0.5	0.454	0.394	13.30	
Dibromochloromethane	1	0		6.45	49.23	50	20	0.1	0.372	0.366	1.54	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 8M20080.D **Instrument:** GCMS 8

Cont Calibration Date/Time 8/22/2018 12:50:00 Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.73	49.06	50	20		0.248	0.243	1.88	
cis-1,3-Dichloropropene	1	0		5.83	46.41	50	20	0.2	0.645	0.598	7.18	
trans-1,3-Dichloropropene	1	0		6.12	44.99	50	20	0.1	0.595	0.536	10.01	
Ethyl methacrylate	1	0		6.14	42.41	50	20	0.5	0.440	0.373	15.17	
1,1,2-Trichloroethane	1	0		6.22	48.92	50	20	0.1	0.328	0.321	2.17	
1,2-Dibromoethane	1	0		6.52	47.72	50	20	0.1	0.333	0.318	4.56	
1,3-Dichloropropane	1	0		6.32	46.07	50	20		0.600	0.553	7.85	
4-Methyl-2-Pentanone	1	0		5.90	43.04	50	20	0.1	0.431	0.371	13.92	
2-Hexanone	1	0		6.33	41.92	50	20	0.1	0.316	0.265	16.15	
Tetrachloroethene	1	0		6.32	44.54	50	20	0.2	0.273	0.243	10.91	
Toluene-d8	1	0	S	5.98	29.98	75	**		1.174	1.174	0.06	
Toluene	1	0		6.02	42.30	50	20	0.4	0.975	0.825	15.39	
1,1,1,2-Tetrachloroethane	1	0		6.81	45.77	50	20		0.339	0.311	8.46	
Chlorobenzene	1	0		6.78	44.20	50	20	0.5	0.994	0.879	11.59	
1,4-Dichlorobenzene-d4	1	0	I	8.02	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.02	43.89	50	20	0.5	1.573	1.381	12.23	
n-Amyl acetate	1	0		7.14	42.07	50	20	0.5	1.339	1.127	15.87	
Bromoform	1	0		7.22	49.52	50	20	0.1	0.436	0.432	0.95	
Ethylbenzene	1	0		6.82	39.79	50	20	0.1	0.809	0.644	20.41	
1,1,2,2-Tetrachloroethane	1	0		7.43	45.04	50	20	0.1	0.882	0.795	9.92	
Bromofluorobenzene	1	0	S	7.38	30.80	75	**		0.715	0.734	2.68	
Styrene	1	0		7.10	44.66	50	20	0.3	1.918	1.713	10.69	
m&p-Xylenes	1	0		6.88	79.15	100	20	0.1	1.305	0.985	20.85	C1
o-Xylene	1	0		7.10	41.03	50	20	0.3	1.191	0.977	17.94	
trans-1,4-Dichloro-2-butene	1	0		7.46	40.30	50	20		0.428	0.345	19.40	
1,3-Dichlorobenzene	1	0		7.99	43.19	50	20	0.6	1.308	1.130	13.61	
1,4-Dichlorobenzene	1	0		8.03	43.28	50	20	0.5	1.319	1.142	13.44	
1,2-Dichlorobenzene	1	0		8.25	42.67	50	20	0.4	1.274	1.087	14.67	
Isopropylbenzene	1	0		7.29	43.42	50	20	0.1	2.853	2.477	13.15	
Cyclohexanone	1	0		7.36	138.63	250	20		0.100	0.056	44.55	C1
Camphene	1	0		7.46	43.90	50	20		1.260	1.106	12.20	
1,2,3-Trichloropropane	1	0		7.47	43.59	50	20		1.115	0.972	12.83	
2-Chlorotoluene	1	0		7.57	42.61	50	20		1.733	1.477	14.77	
p-Ethyltoluene	1	0		7.56	42.45	50	20		2.984	2.534	15.10	
4-Chlorotoluene	1	0		7.63	42.38	50	20		1.667	1.413	15.24	
n-Propylbenzene	1	0		7.51	42.24	50	20		3.480	2.940	15.51	
Bromobenzene	1	0		7.48	41.11	50	20		2.027	1.667	17.77	
1,3,5-Trimethylbenzene	1	0		7.59	40.74	50	20		2.258	1.840	18.53	
Butyl methacrylate	1	0		7.60	41.98	50	20	0.5	1.042	0.875	16.05	
t-Butylbenzene	1	0		7.78	43.11	50	20		2.350	2.027	13.77	
1,2,4-Trimethylbenzene	1	0		7.81	41.08	50	20		2.526	2.075	17.84	
sec-Butylbenzene	1	0		7.90	44.35	50	20		3.028	2.686	11.31	
4-Isopropyltoluene	1	0		7.97	44.75	50	20		2.487	2.226	10.51	
n-Butylbenzene	1	0		8.20	42.74	50	20		3.030	2.590	14.52	
p-Diethylbenzene	1	0		8.19	44.18	50	20		1.610	1.422	11.65	
1,2,4,5-Tetramethylbenzene	1	0		8.63	45.32	50	20		2.296	2.081	9.35	
1,2-Dibromo-3-Chloropropane	1	0		8.69	45.03	50	20	0.05	0.182	0.164	9.94	
Camphor	1	0		9.11	463.31	500	20		0.103	0.096	7.34	
Hexachlorobutadiene	1	0		9.25	48.22	50	20		0.441	0.426	3.56	
1,2,4-Trichlorobenzene	1	0		9.17	43.81	50	20	0.2	0.841	0.737	12.38	
1,2,3-Trichlorobenzene	1	0		9.46	43.07	50	20		0.835	0.720	13.85	
Naphthalene	1	0		9.32	39.35	50	20		2.782	2.183	21.30	C1

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

8081617 0041

FORM8

Internal Standard Areas

Evaluation Std Data File: 8M18964.D Method: EPA 8260C

Analysis Date/Time: 07/26/18 19:02

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	661110	5.11	604531	6.76	332203	8.02								
Eval File Area Limit:	330555-1322220		302266-1209062		166102-664406									
Eval File Rt Limit:	4.61-5.61		6.26-7.26		7.52-8.52									

Data File	Sample						
8M18960.D	CAL @ 0.5 PPB	655202	5.11	614835	6.76	321924	8.02
8M18961.D	CAL @ 1 PPB	656865	5.11	602584	6.76	321777	8.02
8M18962.D	CAL @ 2 PPB	618415	5.11	563802	6.76	301220	8.02
8M18963.D	CAL @ 5 PPB	679951	5.11	623677	6.76	335573	8.02
8M18964.D	CAL @ 20 PPB	661110	5.11	604531	6.76	332203	8.02
8M18965.D	CAL @ 50 PPB	681396	5.11	630354	6.76	362221	8.02
8M18966.D	CAL @ 500 PPB	685663	5.11	694028	6.76	416054	8.02
8M18969.D	CAL @ 250 PPB	735329	5.11	706628	6.76	397883	8.02
8M18972.D	CAL @ 100 PPB	776946	5.11	727267	6.76	404337	8.02
8M18975.D	ICV	762175	5.11	707056	6.76	392719	8.02
8M18979.D	daily blank	718153	5.11	664781	6.76	354587	8.02

I1 =	Fluorobenzene	I4 =		I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =			624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =			524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 8M20080.D Method: EPA 8260C

Analysis Date/Time: 08/22/18 00:50

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	601339	5.11	558447	6.76	312651	8.02								
Eval File Area Limit:	300670-1202678		279224-1116894		156326-625302									
Eval File Rt Limit:	4.61-5.61		6.26-7.26		7.52-8.52									

Data File	Sample						
8M20079.D	50 PPB	607897	5.11	555142	6.76	311596	8.02
8M20081.D	BLK	602369	5.11	553160	6.76	295629	8.02
8M20082.D	BLK	612034	5.11	577825	6.76	305393	8.02
8M20083.D	DAILY BLANK	581280	5.11	542609	6.76	287567	8.02
8M20084.D	AD06068-002	564660	5.11	527581	6.76	280393	8.02
8M20085.D	AD05993-006	563395	5.11	503091	6.76	244905	8.02
8M20086.D	AD05993-007	552905	5.11	501143	6.76	258458	8.02
8M20087.D	MBS70991	547874	5.11	511639	6.76	285074	8.02
8M20088.D	AD06068-002(MS)	556761	5.11	510788	6.76	285737	8.02
8M20089.D	AD06068-002(MSD)	545616	5.11	500179	6.76	282794	8.02
8M20090.D	BLK	543228	5.11	504415	6.76	269029	8.02
8M20091.D	AD05993-008	515563	5.11	474869	6.76	253452	8.02
8M20092.D	AD05993-009	522909	5.11	477209	6.76	234587	8.02
8M20093.D	AD05993-010	496798	5.11	455330	6.76	244161	8.02
8M20094.D	AD05993-011	493929	5.11	464525	6.76	246554	8.02
8M20095.D	AD05993-012	482899	5.11	438665	6.76	217451	8.02
8M20096.D	AD05993-013	461202	5.11	432929	6.76	231593	8.02
8M20097.D	AD05993-014	433209	5.11	382036	6.76	175838	8.02
8M20098.D	AD06019-004	464823	5.11	434745	6.76	227253	8.02
8M20099.D	AD06019-005	461747	5.11	430963	6.76	224675	8.02
8M20100.D	AD05999-001	456453	5.11	427439	6.76	224276	8.02
8M20101.D	AD05999-002	464845	5.11	438087	6.76	224566	8.02
8M20102.D	AD06051-001	437309	5.11	401401	6.76	198683	8.02
8M20103.D	AD06051-002	413827	5.11	389173	6.76	208141	8.02
8M20104.D	AD06051-003	421629	5.11	400120	6.76	214729	8.02
8M20105.D	AD06051-004	421051	5.11	394155	6.76	209964	8.02
8M20106.D	AD06051-005	422981	5.11	398017	6.76	207903	8.02
8M20107.D	AD06065-001	417604	5.11	368807	6.76	171142	8.02
8M20108.D	AD06051-001	418140	5.11	385979	6.76	190934	8.02
8M20109.D	AD06051-002	406187	5.11	388391	6.76	204793	8.02
8M20110.D	AD06051-003	395227	5.11	378581	6.76	199508	8.02
8M20111.D	AD06051-004	415935	5.11	398464	6.76	207027	8.02

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

8081617 0043

FORM8

Internal Standard Areas

Evaluation Std Data File: 8M20080.D Method: EPA 8260C

Analysis Date/Time: 08/22/18 00:50

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	601339	5.11	558447	6.76	312651	8.02								
Eval File Area Limit:	300670-1202678		279224-1116894		156326-625302									
Eval File Rt Limit:	4.61-5.61		6.26-7.26		7.52-8.52									

Data File	Sample						
8M20112.D	AD06051-005	386497	5.11	361615	6.76	195202	8.02
8M20113.D	BLK	390804	5.11	365255	6.76	193703	8.02

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

TCLP Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD05999-001(T)
Client Id: SS-1
Data File: 3M134840.D
Analysis Date: 08/22/18 16:27
Date Rec/Extracted: 08/16/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
75-35-4	1,1-Dichloroethene	0.0010	U	108-90-7	Chlorobenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.00050	U	67-66-3	Chloroform	0.0010	U
106-46-7	1,4-Dichlorobenzene	0.0010	U	127-18-4	Tetrachloroethene	0.0010	U
78-93-3	2-Butanone	0.0010	U	79-01-6	Trichloroethene	0.0010	U
71-43-2	Benzene	0.00050	U	75-01-4	Vinyl Chloride	0.0010	U
56-23-5	Carbon Tetrachloride	0.0010	U				

Worksheet #: 476727

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

8081617 0046

SampleID : AD05999-001(T) Operator : WP Qt Meth : 3M_A0713.M
Data File: 3M134840.D Sam Mult : 1 Vial# : 12 Qt On : 08/22/18 16:49
Acq On : 08/22/18 16:27 Misc : A,5ML!14 Qt Upd On: 07/16/18 14:59

Data Path : G:\GcMsData\2018\GCMS_3\Data\08-22-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
4) Fluorobenzene	4.940	96	170583	30.00 ug/l	-0.01
52) Chlorobenzene-d5	6.790	117	145151	30.00 ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.238	152	66569	30.00 ug/l	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	4.513	111	43754	29.39 ug/l	-0.02
Spiked Amount 30.000			Recovery = 97.97%		
39) 1,2-Dichloroethane-d4	4.736	67	30659	28.84 ug/l	-0.01
Spiked Amount 30.000			Recovery = 96.13%		
66) Toluene-d8	5.913	98	169785	26.91 ug/l	0.00
Spiked Amount 30.000			Recovery = 89.70%		
76) Bromofluorobenzene	7.505	174	63507	25.08 ug/l	0.00
Spiked Amount 30.000			Recovery = 83.60%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

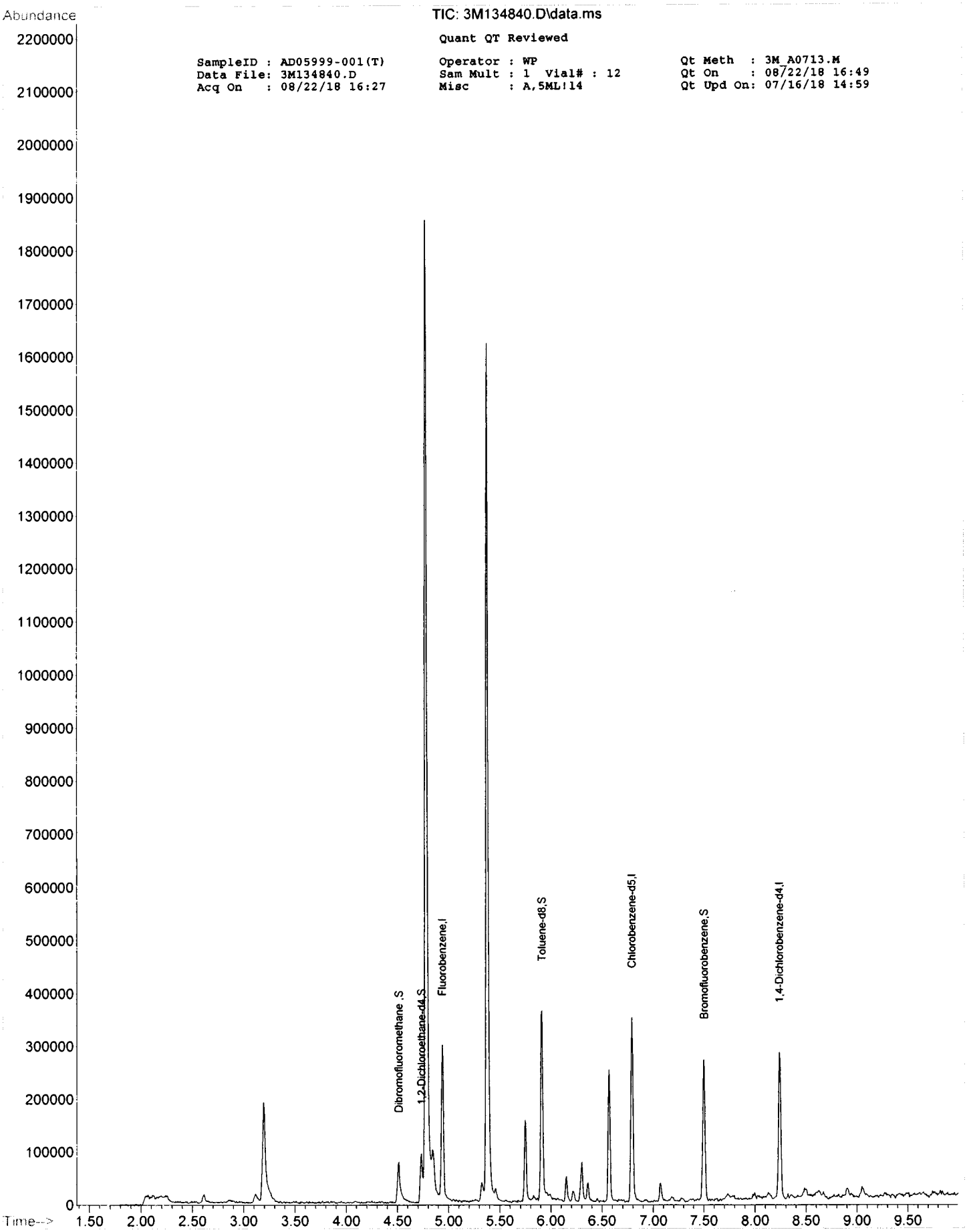
Abundance
TIC: 3M134840.D\data.ms
Quant QT Reviewed
SampleID : AD05999-001(T)
Data File: 3M134840.D
Acq On : 08/22/18 16:27
Operator : WP
Sam Mult : 1 Vial# : 12
Misc : A,5ML!14
Qt Meth : 3M_A0713.M
Qt On : 08/22/18 16:49
Qt Upd On: 07/16/18 14:59
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 3M134831.D
Analysis Date: 08/22/18 13:51
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
75-35-4	1,1-Dichloroethene	0.0010	U	108-90-7	Chlorobenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.00050	U	67-66-3	Chloroform	0.0010	U
106-46-7	1,4-Dichlorobenzene	0.0010	U	127-18-4	Tetrachloroethene	0.0010	U
78-93-3	2-Butanone	0.0010	U	79-01-6	Trichloroethene	0.0010	U
71-43-2	Benzene	0.00050	U	75-01-4	Vinyl Chloride	0.0010	U
56-23-5	Carbon Tetrachloride	0.0010	U				

Worksheet #: 476727

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT/LSC Reviewed) **8081617 0049**

SampleID : DAILY BLANK Operator : WP Qt Meth : 3M_A0713.M
Data File: 3M134831.D Sam Mult : 1 Vial# : 4 Qt On : 08/22/18 14:19
Acq On : 08/22/18 13:51 Misc : A,5ML Qt Upd On: 07/16/18 14:59

Data Path : G:\GcMsData\2018\GCMS_3\Data\08-22-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
4) Fluorobenzene	4.939	96	209886	30.00 ug/l	-0.01
52) Chlorobenzene-d5	6.789	117	182278	30.00 ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.237	152	83838	30.00 ug/l	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	4.513	111	55275	30.17 ug/l	-0.02
Spiked Amount 30.000			Recovery	= 100.57%	
39) 1,2-Dichloroethane-d4	4.729	67	44951	34.37 ug/l	-0.02
Spiked Amount 30.000			Recovery	= 114.57%	
66) Toluene-d8	5.912	98	222801	28.12 ug/l	0.00
Spiked Amount 30.000			Recovery	= 93.73%	
76) Bromofluorobenzene	7.504	174	80901	25.37 ug/l	0.00
Spiked Amount 30.000			Recovery	= 84.57%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

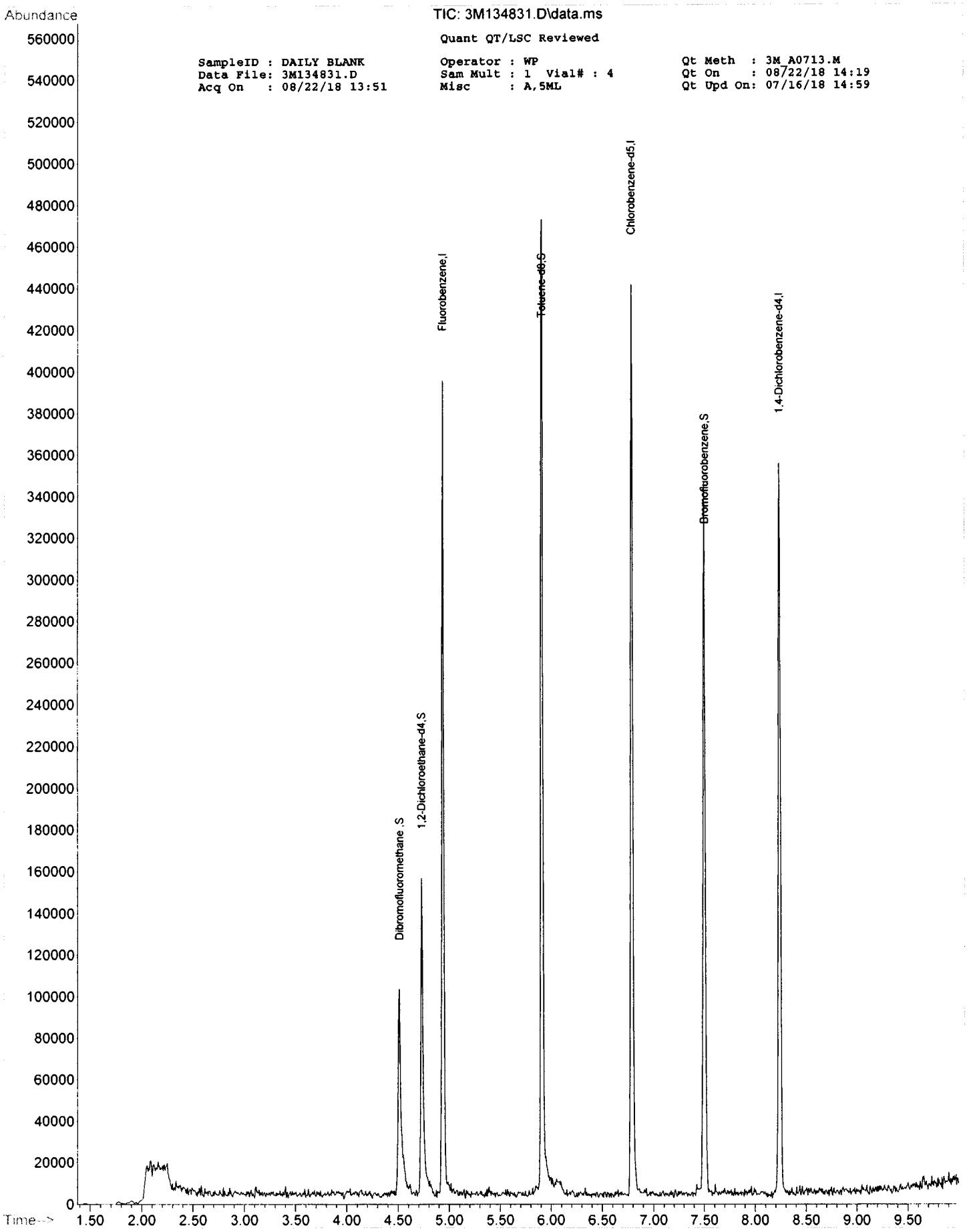
Abundance
TIC: 3M134831.D\data.ms
Quant QT/LSC Reviewed
SampleID : DAILY BLANK
Data File: 3M134831.D
Acq On : 08/22/18 13:51
Operator : WP
Sam Mult : 1 Vial# : 4
Misc : A,5ML
Qt Meth : 3M_A0713.M
Qt On : 08/22/18 14:19
Qt Upd On: 07/16/18 14:59
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: EF-1-V-285748(082118)
Client Id:
Data File: 3M134851.D
Analysis Date: 08/22/18 19:36
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
75-35-4	1,1-Dichloroethene	0.0010	U	108-90-7	Chlorobenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.00050	U	67-66-3	Chloroform	0.0010	U
106-46-7	1,4-Dichlorobenzene	0.0010	U	127-18-4	Tetrachloroethene	0.0010	U
78-93-3	2-Butanone	0.0010	U	79-01-6	Trichloroethene	0.0010	U
71-43-2	Benzene	0.00050	U	75-01-4	Vinyl Chloride	0.0010	U
56-23-5	Carbon Tetrachloride	0.0010	U				

Worksheet #: 476727

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

8081617 0052

SampleID : EF-1-V-285748(08211 Operator : WP Qt Meth : 3M_A0713.M
Data File: 3M134851.D Sam Mult : 1 Vial# : 18 Qt On : 08/22/18 20:14
Acq On : 08/22/18 19:36 Misc : A,5ML!19 Qt Upd On: 07/16/18 14:59

Data Path : G:\GcMsData\2018\GCMS_3\Data\08-22-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.934	96	244901	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.784	117	213965	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	8.232	152	98815	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.502	111	65806	30.78	ug/l	-0.03
Spiked Amount 30.000			Recovery = 102.60%			
39) 1,2-Dichloroethane-d4	4.724	67	48416	31.73	ug/l	-0.02
Spiked Amount 30.000			Recovery = 105.77%			
66) Toluene-d8	5.907	98	262796	28.26	ug/l	-0.01
Spiked Amount 30.000			Recovery = 94.20%			
76) Bromofluorobenzene	7.493	174	95862	25.51	ug/l	-0.01
Spiked Amount 30.000			Recovery = 85.03%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

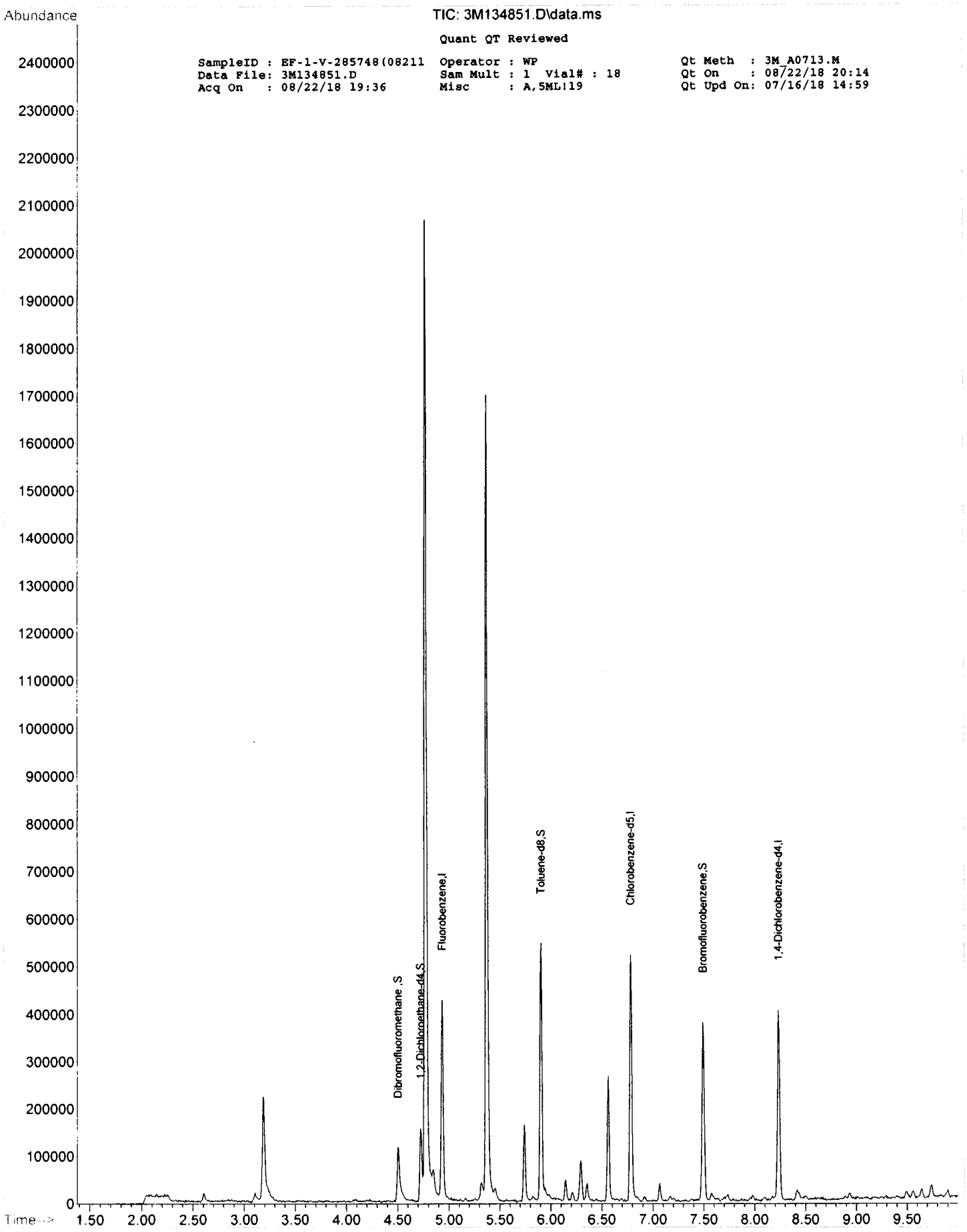
Abundance
TIC: 3M134851.D\data.ms
Quant QT Reviewed
SampleID : EF-1-V-285748(08211
Data File: 3M134851.D
Acq On : 08/22/18 19:36
Operator : WP
Sam Mult : 1 Vial# : 18
Misc : A,5ML!19
Qt Meth : 3M_A0713.M
Qt On : 08/22/18 20:14
Qt Upd On: 07/16/18 14:59
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8260C

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
3M134831.D	DAILY BLANK	A	08/22/18 13:51	1		101	115	94	85		
3M134851.D	EF-1-V-285748(082118)	A	08/22/18 19:36	1		103	106	94	85		
3M134840.D	AD05999-001(T)	A	08/22/18 16:27	1		98	96	90	84		
3M134837.D	MBS70993	A	08/22/18 15:35	1		106	106	91	93		
3M134839.D	AD06006-001(T)	A	08/22/18 16:10	1		92	103	91	93		
3M134849.D	AD06006-001(T:MS)	A	08/22/18 19:01	1		107	99	95	92		
3M134850.D	AD06006-001(T:MSD)	A	08/22/18 19:19	1		99	97	91	91		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260C

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	73-131
S2=1,2-Dichloroethane-d4	30	78-128
S3=Toluene-d8	30	79-111
S4=Bromofluorobenzene	30	82-112

Form3
Recovery Data Laboratory Limits
QC Batch: MBS70993

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M134837.D	MBS70993	8/22/2018 3:35:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	27.1855	0	20	136	50	150
Dichlorodifluoromethane	1	32.392	0	20	162*	50	150
Chloromethane	1	31.307	0	20	157*	50	150
Bromomethane	1	14.2932	0	20	71	50	150
Vinyl Chloride	1	28.2416	0	20	141	50	150
Chloroethane	1	15.4966	0	20	77	50	150
Trichlorofluoromethane	1	15.1465	0	20	76	50	150
Ethyl ether	1	17.3645	0	20	87	50	150
Furan	1	17.3119	0	20	87	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	19.2158	0	20	96	50	150
Methylene Chloride	1	20.4033	0	20	102	70	130
Acrolein	1	104.8688	0	100	105	50	150
Acrylonitrile	1	20.5741	0	20	103	50	150
Iodomethane	1	18.3188	0	20	92	50	150
Acetone	1	108.3179	0	100	108	50	150
Carbon Disulfide	1	24.6555	0	20	123	50	150
t-Butyl Alcohol	1	71.8048	0	100	72	50	150
n-Hexane	1	22.9405	0	20	115	70	130
Di-isopropyl-ether	1	20.0923	0	20	100	70	130
1,1-Dichloroethene	1	20.215	0	20	101	70	130
Methyl Acetate	1	17.8462	0	20	89	50	150
Methyl-t-butyl ether	1	21.1392	0	20	106	70	130
1,1-Dichloroethane	1	20.0269	0	20	100	70	130
trans-1,2-Dichloroethene	1	18.1868	0	20	91	70	130
Ethyl-t-butyl ether	1	19.9594	0	20	100	70	130
cis-1,2-Dichloroethene	1	21.5575	0	20	108	70	130
Bromochloromethane	1	22.7558	0	20	114	70	130
2,2-Dichloropropane	1	22.6199	0	20	113	70	130
Ethyl acetate	1	22.5657	0	20	113	50	150
1,4-Dioxane	1	1069.342	0	1000	107	50	150
1,1-Dichloropropene	1	24.1299	0	20	121	70	130
Chloroform	1	21.3755	0	20	107	70	130
Cyclohexane	1	17.5935	0	20	88	70	130
1,2-Dichloroethane	1	21.5199	0	20	108	70	130
2-Butanone	1	19.9776	0	20	100	50	150
1,1,1-Trichloroethane	1	19.9441	0	20	100	70	130
Carbon Tetrachloride	1	20.3116	0	20	102	50	150
Vinyl Acetate	1	20.1761	0	20	101	50	150
Bromodichloromethane	1	18.9768	0	20	95	70	130
Methylcyclohexane	1	21.4239	0	20	107	70	130
Dibromomethane	1	17.9557	0	20	90	70	130
1,2-Dichloropropane	1	22.2192	0	20	111	70	130
Trichloroethene	1	21.8866	0	20	109	70	130
Benzene	1	22.1699	0	20	111	70	130
tert-Amyl methyl ether	1	19.9329	0	20	100	70	130
Iso-propylacetate	1	17.6636	0	20	88	70	130
Methyl methacrylate	1	17.1984	0	20	86	70	130
Dibromochloromethane	1	16.2133	0	20	81	70	130
2-Chloroethylvinylether	1	17.378	0	20	87	70	130
cis-1,3-Dichloropropene	1	17.4469	0	20	87	70	130
trans-1,3-Dichloropropene	1	17.8249	0	20	89	70	130
Ethyl methacrylate	1	16.8906	0	20	84	70	130
1,1,2-Trichloroethane	1	17.0343	0	20	85	70	130
1,2-Dibromoethane	1	18.1263	0	20	91	70	130
1,3-Dichloropropane	1	19.5236	0	20	98	70	130
4-Methyl-2-Pentanone	1	17.443	0	20	87	50	150
2-Hexanone	1	16.7839	0	20	84	50	150
Tetrachloroethene	1	17.9357	0	20	90	50	150
Toluene	1	18.7313	0	20	94	70	130
1,1,1,2-Tetrachloroethane	1	19.355	0	20	97	70	130
Chlorobenzene	1	17.6816	0	20	88	70	130

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Form3
Recovery Data Laboratory Limits
QC Batch: MBS70993

n-Butyl acrylate	1	17.046	0	20	85	70	130
n-Amyl acetate	1	18.9795	0	20	95	70	130
Bromoform	1	17.2341	0	20	86	70	130
Ethylbenzene	1	21.3045	0	20	107	70	130
1,1,2,2-Tetrachloroethane	1	19.8952	0	20	99	70	130
Styrene	1	21.4866	0	20	107	70	130
m&p-Xylenes	1	43.9273	0	40	110	70	130
o-Xylene	1	21.7296	0	20	109	70	130
trans-1,4-Dichloro-2-butene	1	21.7711	0	20	109	50	150
1,3-Dichlorobenzene	1	20.4311	0	20	102	70	130
1,4-Dichlorobenzene	1	19.9839	0	20	100	70	130
1,2-Dichlorobenzene	1	19.2985	0	20	96	70	130
Isopropylbenzene	1	21.6068	0	20	108	70	130
Cyclohexanone	1	105.253	0	100	105	50	150
Camphene	1	22.3489	0	20	112	70	130
1,2,3-Trichloropropane	1	19.8712	0	20	99	70	130
2-Chlorotoluene	1	23.1317	0	20	116	70	130
p-Ethyltoluene	1	21.4178	0	20	107	70	130
4-Chlorotoluene	1	19.5171	0	20	98	70	130
n-Propylbenzene	1	23.8395	0	20	119	70	130
Bromobenzene	1	20.2086	0	20	101	70	130
1,3,5-Trimethylbenzene	1	22.8247	0	20	114	70	130
Butyl methacrylate	1	22.2536	0	20	111	70	130
t-Butylbenzene	1	22.2777	0	20	111	70	130
1,2,4-Trimethylbenzene	1	22.8421	0	20	114	70	130
sec-Butylbenzene	1	22.6492	0	20	113	70	130
4-Isopropyltoluene	1	23.8051	0	20	119	70	130
n-Butylbenzene	1	24.594	0	20	123	70	130
p-Diethylbenzene	1	22.6925	0	20	113	70	130
1,2,4,5-Tetramethylbenzene	1	17.9591	0	20	90	70	130
1,2-Dibromo-3-Chloropropane	1	17.2974	0	20	86	50	150
Camphor	1	207.4034	0	200	104	20	150
Hexachlorobutadiene	1	23.543	0	20	118	50	150
1,2,4-Trichlorobenzene	1	20.4855	0	20	102	70	130
1,2,3-Trichlorobenzene	1	20.7128	0	20	104	70	130
Naphthalene	1	19.4964	0	20	97	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS70993

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M134849.D	AD06006-001(T:MS)	8/22/2018 7:01:00 PM
Non Spike(If applicable):	3M134839.D	AD06006-001(T)	8/22/2018 4:10:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	22.6652	0	20	113	50	150
Dichlorodifluoromethane	1	44.231	0	20	221*	50	150
Chloromethane	1	29.9385	0	20	150	50	150
Bromomethane	1	28.2127	0	20	141	50	150
Vinyl Chloride	1	27.2391	0	20	136	50	150
Chloroethane	1	24.7812	0	20	124	50	150
Trichlorofluoromethane	1	17.412	0	20	87	50	150
Ethyl ether	1	21.1367	0	20	106	50	150
Furan	1	18.5994	0	20	93	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	24.8152	0	20	124	50	150
Methylene Chloride	1	65.6708	0	20	328*	70	130
Acrolein	1	43.824	0	100	44*	50	150
Acrylonitrile	1	19.8269	0	20	99	50	150
Iodomethane	1	24.2332	0	20	121	50	150
Acetone	1	107.4245	0	100	107	50	150
Carbon Disulfide	1	25.3488	0	20	127	50	150
t-Butyl Alcohol	1	63.7768	0	100	64	50	150
n-Hexane	1	23.5213	0	20	118	70	130
Di-isopropyl-ether	1	19.9717	0	20	100	70	130
1,1-Dichloroethene	1	19.5333	0	20	98	70	130
Methyl Acetate	1	8.9175	0	20	45*	50	150
Methyl-t-butyl ether	1	19.0784	0	20	95	70	130
1,1-Dichloroethane	1	16.312	0	20	82	70	130
trans-1,2-Dichloroethene	1	21.9621	0	20	110	70	130
Ethyl-t-butyl ether	1	18.5357	0	20	93	70	130
cis-1,2-Dichloroethene	1	22.2442	0	20	111	70	130
Bromochloromethane	1	16.4838	0	20	82	70	130
2,2-Dichloropropane	1	22.8178	0	20	114	70	130
Ethyl acetate	1	16.7808	0	20	84	50	150
1,4-Dioxane	1	736.7535	0	1000	74	50	150
1,1-Dichloropropene	1	23.5275	0	20	118	70	130
Chloroform	1	22.3523	0	20	112	70	130
Cyclohexane	1	21.5052	0	20	108	70	130
1,2-Dichloroethane	1	21.851	0	20	109	70	130
2-Butanone	1	16.981	0	20	85	50	150
1,1,1-Trichloroethane	1	21.4352	0	20	107	70	130
Carbon Tetrachloride	1	24.6198	0	20	123	50	150
Vinyl Acetate	1	13.4634	0	20	67	50	150
Bromodichloromethane	1	20.7498	0	20	104	70	130
Methylcyclohexane	1	22.9002	0	20	115	70	130
Dibromomethane	1	19.2626	0	20	96	70	130
1,2-Dichloropropane	1	21.621	0	20	108	70	130
Trichloroethene	1	39.0936	0	20	195*	70	130
Benzene	1	23.3642	0	20	117	70	130
tert-Amyl methyl ether	1	19.9888	0	20	100	70	130
Iso-propylacetate	1	19.2833	0	20	96	70	130
Methyl methacrylate	1	13.4226	0	20	67*	70	130
Dibromochloromethane	1	18.0628	0	20	90	70	130
2-Chloroethylvinylether	1	16.8775	0	20	84	70	130
cis-1,3-Dichloropropene	1	16.5072	0	20	83	70	130
trans-1,3-Dichloropropene	1	16.873	0	20	84	70	130
Ethyl methacrylate	1	13.7287	0	20	69*	70	130
1,1,2-Trichloroethane	1	17.2324	0	20	86	70	130
1,2-Dibromoethane	1	17.5039	0	20	88	70	130
1,3-Dichloropropane	1	18.6256	0	20	93	70	130
4-Methyl-2-Pentanone	1	14.9457	0	20	75	50	150
2-Hexanone	1	18.9472	0	20	95	50	150
Tetrachloroethene	1	20.8719	0	20	104	50	150
Toluene	1	20.3738	0	20	102	70	130
1,1,1,2-Tetrachloroethane	1	20.1137	0	20	101	70	130
Chlorobenzene	1	18.5715	0	20	93	70	130

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Form3
Recovery Data Laboratory Limits
QC Batch: MBS70993

n-Butyl acrylate	1	11.4067	0	20	57*	70	130
n-Amyl acetate	1	13.4376	0	20	67*	70	130
Bromoform	1	16.1006	0	20	81	70	130
Ethylbenzene	1	19.7282	0	20	99	70	130
1,1,2,2-Tetrachloroethane	1	1.6575	0	20	8.3*	70	130
Styrene	1	19.8814	0	20	99	70	130
m&p-Xylenes	1	42.9695	0	40	107	70	130
o-Xylene	1	22.5996	0	20	113	70	130
trans-1,4-Dichloro-2-butene	1	18.6116	0	20	93	50	150
1,3-Dichlorobenzene	1	20.3803	0	20	102	70	130
1,4-Dichlorobenzene	1	19.8517	0	20	99	70	130
1,2-Dichlorobenzene	1	19.207	0	20	96	70	130
Isopropylbenzene	1	20.852	0	20	104	70	130
Cyclohexanone	1	91.3364	0	100	91	50	150
Camphene	1	20.8159	0	20	104	70	130
1,2,3-Trichloropropane	1	19.4175	0	20	97	70	130
2-Chlorotoluene	1	21.1279	0	20	106	70	130
p-Ethyltoluene	1	22.0208	0	20	110	70	130
4-Chlorotoluene	1	22.5092	0	20	113	70	130
n-Propylbenzene	1	22.8785	0	20	114	70	130
Bromobenzene	1	19.5985	0	20	98	70	130
1,3,5-Trimethylbenzene	1	24.2659	0	20	121	70	130
Butyl methacrylate	1	16.5452	0	20	83	70	130
t-Butylbenzene	1	21.1626	0	20	106	70	130
1,2,4-Trimethylbenzene	1	23.7791	0	20	119	70	130
sec-Butylbenzene	1	21.6484	0	20	108	70	130
4-Isopropyltoluene	1	23.0301	0	20	115	70	130
n-Butylbenzene	1	24.8108	0	20	124	70	130
p-Diethylbenzene	1	23.6301	0	20	118	70	130
1,2,4,5-Tetramethylbenzene	1	20.5175	0	20	103	70	130
1,2-Dibromo-3-Chloropropane	1	18.0248	0	20	90	50	150
Camphor	1	184.0101	0	200	92	20	150
Hexachlorobutadiene	1	19.5984	0	20	98	50	150
1,2,4-Trichlorobenzene	1	20.9784	0	20	105	70	130
1,2,3-Trichlorobenzene	1	20.5683	0	20	103	70	130
Naphthalene	1	17.0543	0	20	85	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS70993

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M134850.D	AD06006-001(T:MSD)	8/22/2018 7:19:00 PM
Non Spike(If applicable):	3M134839.D	AD06006-001(T)	8/22/2018 4:10:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	20.066	0	20	100	50	150
Dichlorodifluoromethane	1	39.0242	0	20	195*	50	150
Chloromethane	1	24.7621	0	20	124	50	150
Bromomethane	1	25.9955	0	20	130	50	150
Vinyl Chloride	1	27.6917	0	20	138	50	150
Chloroethane	1	19.8363	0	20	99	50	150
Trichlorofluoromethane	1	16.3702	0	20	82	50	150
Ethyl ether	1	18.3949	0	20	92	50	150
Furan	1	15.998	0	20	80	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.3766	0	20	112	50	150
Methylene Chloride	1	58.1619	0	20	291*	70	130
Acrolein	1	33.6142	0	100	34*	50	150
Acrylonitrile	1	17.1687	0	20	86	50	150
Iodomethane	1	20.9294	0	20	105	50	150
Acetone	1	116.0941	0	100	116	50	150
Carbon Disulfide	1	24.2597	0	20	121	50	150
t-Butyl Alcohol	1	71.9261	0	100	72	50	150
n-Hexane	1	21.8713	0	20	109	70	130
Di-isopropyl-ether	1	18.0719	0	20	90	70	130
1,1-Dichloroethene	1	20.3885	0	20	102	70	130
Methyl Acetate	1	5.9833	0	20	30*	50	150
Methyl-t-butyl ether	1	17.9897	0	20	90	70	130
1,1-Dichloroethane	1	13.7187	0	20	69*	70	130
trans-1,2-Dichloroethene	1	18.9076	0	20	95	70	130
Ethyl-t-butyl ether	1	17.4973	0	20	87	70	130
cis-1,2-Dichloroethene	1	18.7184	0	20	94	70	130
Bromochloromethane	1	14.8535	0	20	74	70	130
2,2-Dichloropropane	1	20.6382	0	20	103	70	130
Ethyl acetate	1	14.5963	0	20	73	50	150
1,4-Dioxane	1	944.2716	0	1000	94	50	150
1,1-Dichloropropene	1	21.368	0	20	107	70	130
Chloroform	1	18.933	0	20	95	70	130
Cyclohexane	1	18.0213	0	20	90	70	130
1,2-Dichloroethane	1	19.4501	0	20	97	70	130
2-Butanone	1	20.5253	0	20	103	50	150
1,1,1-Trichloroethane	1	19.5485	0	20	98	70	130
Carbon Tetrachloride	1	21.2724	0	20	106	50	150
Vinyl Acetate	1	12.0675	0	20	60	50	150
Bromodichloromethane	1	20.1894	0	20	101	70	130
Methylcyclohexane	1	18.8545	0	20	94	70	130
Dibromomethane	1	18.2324	0	20	91	70	130
1,2-Dichloropropane	1	20.0119	0	20	100	70	130
Trichloroethene	1	37.2769	0	20	186*	70	130
Benzene	1	21.2493	0	20	106	70	130
tert-Amyl methyl ether	1	18.1508	0	20	91	70	130
Iso-propylacetate	1	17.6494	0	20	88	70	130
Methyl methacrylate	1	12.2185	0	20	61*	70	130
Dibromochloromethane	1	15.9192	0	20	80	70	130
2-Chloroethylvinylether	1	13.5281	0	20	68*	70	130
cis-1,3-Dichloropropene	1	15.9895	0	20	80	70	130
trans-1,3-Dichloropropene	1	16.1989	0	20	81	70	130
Ethyl methacrylate	1	12.2712	0	20	61*	70	130
1,1,2-Trichloroethane	1	15.9042	0	20	80	70	130
1,2-Dibromoethane	1	16.6605	0	20	83	70	130
1,3-Dichloropropane	1	17.3267	0	20	87	70	130
4-Methyl-2-Pentanone	1	15.2333	0	20	76	50	150
2-Hexanone	1	16.2549	0	20	81	50	150
Tetrachloroethene	1	19.4785	0	20	97	50	150
Toluene	1	18.1877	0	20	91	70	130
1,1,1,2-Tetrachloroethane	1	19.04	0	20	95	70	130
Chlorobenzene	1	16.926	0	20	85	70	130

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Form3
Recovery Data Laboratory Limits
QC Batch: MBS70993

n-Butyl acrylate	1	9.3357	0	20	47*	70	130
n-Amyl acetate	1	10.2759	0	20	51*	70	130
Bromoform	1	15.6346	0	20	78	70	130
Ethylbenzene	1	22.5838	0	20	113	70	130
1,1,2,2-Tetrachloroethane	1	0	0	20	0*	70	130
Styrene	1	19.0058	0	20	95	70	130
m&p-Xylenes	1	39.5373	0	40	99	70	130
o-Xylene	1	19.8183	0	20	99	70	130
trans-1,4-Dichloro-2-butene	1	15.9844	0	20	80	50	150
1,3-Dichlorobenzene	1	17.5319	0	20	88	70	130
1,4-Dichlorobenzene	1	17.8658	0	20	89	70	130
1,2-Dichlorobenzene	1	17.9907	0	20	90	70	130
Isopropylbenzene	1	18.3504	0	20	92	70	130
Cyclohexanone	1	90.742	0	100	91	50	150
Camphene	1	18.9935	0	20	95	70	130
1,2,3-Trichloropropane	1	17.048	0	20	85	70	130
2-Chlorotoluene	1	19.2832	0	20	96	70	130
p-Ethyltoluene	1	17.8598	0	20	89	70	130
4-Chlorotoluene	1	18.707	0	20	94	70	130
n-Propylbenzene	1	20.1094	0	20	101	70	130
Bromobenzene	1	17.8895	0	20	89	70	130
1,3,5-Trimethylbenzene	1	24.6396	0	20	123	70	130
Butyl methacrylate	1	15.1435	0	20	76	70	130
t-Butylbenzene	1	19.8401	0	20	99	70	130
1,2,4-Trimethylbenzene	1	22.1853	0	20	111	70	130
sec-Butylbenzene	1	19.9153	0	20	100	70	130
4-Isopropyltoluene	1	20.875	0	20	104	70	130
n-Butylbenzene	1	23.4368	0	20	117	70	130
p-Diethylbenzene	1	21.2673	0	20	106	70	130
1,2,4,5-Tetramethylbenzene	1	21.4128	0	20	107	70	130
1,2-Dibromo-3-Chloropropane	1	17.5751	0	20	88	50	150
Camphor	1	181.0298	0	200	91	20	150
Hexachlorobutadiene	1	20.566	0	20	103	50	150
1,2,4-Trichlorobenzene	1	21.96	0	20	110	70	130
1,2,3-Trichlorobenzene	1	20.9538	0	20	105	70	130
Naphthalene	1	17.8588	0	20	89	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: MBS70993

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M134850.D	AD06006-001(T:MSD)	8/22/2018 7:19:00 PM
Duplicate(If applicable):	3M134849.D	AD06006-001(T:MS)	8/22/2018 7:01:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	20.066	22.6652	12	30
Dichlorodifluoromethane	1	39.0242	44.231	13	30
Chloromethane	1	24.7621	29.9385	19	30
Bromomethane	1	25.9955	28.2127	8.2	30
Vinyl Chloride	1	27.6917	27.2391	1.6	40
Chloroethane	1	19.8363	24.7812	22	30
Trichlorofluoromethane	1	16.3702	17.412	6.2	30
Ethyl ether	1	18.3949	21.1367	14	30
Furan	1	15.998	18.5994	15	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.3766	24.8152	10	30
Methylene Chloride	1	58.1619	65.6708	12	30
Acrolein	1	33.6142	43.824	26	30
Acrylonitrile	1	17.1687	19.8269	14	30
Iodomethane	1	20.9294	24.2332	15	30
Acetone	1	116.0941	107.4245	7.8	30
Carbon Disulfide	1	24.2597	25.3488	4.4	30
t-Butyl Alcohol	1	71.9261	63.7768	12	30
n-Hexane	1	21.8713	23.5213	7.3	30
Di-isopropyl-ether	1	18.0719	19.9717	10	30
1,1-Dichloroethene	1	20.3885	19.5333	4.3	40
Methyl Acetate	1	5.9833	8.9175	39*	30
Methyl-t-butyl ether	1	17.9897	19.0784	5.9	30
1,1-Dichloroethane	1	13.7187	16.312	17	40
trans-1,2-Dichloroethene	1	18.9076	21.9621	15	30
Ethyl-t-butyl ether	1	17.4973	18.5357	5.8	30
cis-1,2-Dichloroethene	1	18.7184	22.2442	17	30
Bromochloromethane	1	14.8535	16.4838	10	30
2,2-Dichloropropane	1	20.6382	22.8178	10	30
Ethyl acetate	1	14.5963	16.7808	14	30
1,4-Dioxane	1	944.2716	736.7535	25	30
1,1-Dichloropropene	1	21.368	23.5275	9.6	30
Chloroform	1	18.933	22.3523	17	40
Cyclohexane	1	18.0213	21.5052	18	30
1,2-Dichloroethane	1	19.4501	21.851	12	40
2-Butanone	1	20.5253	16.981	19	40
1,1,1-Trichloroethane	1	19.5485	21.4352	9.2	30
Carbon Tetrachloride	1	21.2724	24.6198	15	40
Vinyl Acetate	1	12.0675	13.4634	11	30
Bromodichloromethane	1	20.1894	20.7498	2.7	30
Methylcyclohexane	1	18.8545	22.9002	19	30
Dibromomethane	1	18.2324	19.2626	5.5	30
1,2-Dichloropropane	1	20.0119	21.621	7.7	30
Trichloroethene	1	37.2769	39.0936	4.8	40
Benzene	1	21.2493	23.3642	9.5	40
tert-Amyl methyl ether	1	18.1508	19.9888	9.6	30
Iso-propylacetate	1	17.6494	19.2833	8.8	30
Methyl methacrylate	1	12.2185	13.4226	9.4	30
Dibromochloromethane	1	15.9192	18.0628	13	30
2-Chloroethylvinylether	1	13.5281	16.8775	22	30
cis-1,3-Dichloropropene	1	15.9895	16.5072	3.2	30
trans-1,3-Dichloropropene	1	16.1989	16.873	4.1	30
Ethyl methacrylate	1	12.2712	13.7287	11	30
1,1,2-Trichloroethane	1	15.9042	17.2324	8	30
1,2-Dibromoethane	1	16.6605	17.5039	4.9	30
1,3-Dichloropropane	1	17.3267	18.6256	7.2	30
4-Methyl-2-Pentanone	1	15.2333	14.9457	1.9	30
2-Hexanone	1	16.2549	18.9472	15	30
Tetrachloroethene	1	19.4785	20.8719	6.9	40
Toluene	1	18.1877	20.3738	11	40
1,1,1,2-Tetrachloroethane	1	19.04	20.1137	5.5	30
Chlorobenzene	1	16.926	18.5715	9.3	40
n-Butyl acrylate	1	9.3357	11.4067	20	30
n-Amyl acetate	1	10.2759	13.4376	27	30

Form3
RPD Data Laboratory Limits
QC Batch: MBS70993

Bromoform	1	15.6346	16.1006	2.9	30
Ethylbenzene	1	22.5838	19.7282	13	30
1,1,2,2-Tetrachloroethane	1	0	1.6575	200*	30
Styrene	1	19.0058	19.8814	4.5	30
m&p-Xylenes	1	39.5373	42.9695	8.3	30
o-Xylene	1	19.8183	22.5996	13	30
trans-1,4-Dichloro-2-butene	1	15.9844	18.6116	15	30
1,3-Dichlorobenzene	1	17.5319	20.3803	15	30
1,4-Dichlorobenzene	1	17.8658	19.8517	11	40
1,2-Dichlorobenzene	1	17.9907	19.207	6.5	40
Isopropylbenzene	1	18.3504	20.852	13	30
Cyclohexanone	1	90.742	91.3364	0.65	30
Camphene	1	18.9935	20.8159	9.2	30
1,2,3-Trichloropropane	1	17.048	19.4175	13	30
2-Chlorotoluene	1	19.2832	21.1279	9.1	30
p-Ethyltoluene	1	17.8598	22.0208	21	30
4-Chlorotoluene	1	18.707	22.5092	18	30
n-Propylbenzene	1	20.1094	22.8785	13	40
Bromobenzene	1	17.8895	19.5985	9.1	30
1,3,5-Trimethylbenzene	1	24.6396	24.2659	1.5	30
Butyl methacrylate	1	15.1435	16.5452	8.8	30
t-Butylbenzene	1	19.8401	21.1626	6.5	30
1,2,4-Trimethylbenzene	1	22.1853	23.7791	6.9	30
sec-Butylbenzene	1	19.9153	21.6484	8.3	40
4-Isopropyltoluene	1	20.875	23.0301	9.8	30
n-Butylbenzene	1	23.4368	24.8108	5.7	30
p-Diethylbenzene	1	21.2673	23.6301	11	30
1,2,4,5-Tetramethylbenzene	1	21.4128	20.5175	4.3	30
1,2-Dibromo-3-Chloropropane	1	17.5751	18.0248	2.5	30
Camphor	1	181.0298	184.0101	1.6	30
Hexachlorobutadiene	1	20.566	19.5984	4.8	30
1,2,4-Trichlorobenzene	1	21.96	20.9784	4.6	30
1,2,3-Trichlorobenzene	1	20.9538	20.5683	1.9	30
Naphthalene	1	17.8588	17.0543	4.6	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 3M134831.D
Matrix: Aqueous

Blank Analysis Date: 08/22/18 13:51
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260C

Sample Number	Data File	Analysis Date
AD05999-001(T)	3M134840.D	08/22/18 16:27
EF-1-V-285748(082	3M134851.D	08/22/18 19:36
AD06006-001(T:M	3M134850.D	08/22/18 19:19
AD06006-001(T:M	3M134849.D	08/22/18 19:01
AD06006-001(T)	3M134839.D	08/22/18 16:10
MBS70993	3M134837.D	08/22/18 15:35

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 3

Data File: 3M132618.D
Analysis Date: 07/13/18 19:52
Method: EPA 8260C

Tune Scan/Time Range: Scan 34

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	18.7	11574	PASS
75	95	30	60	44.6	27616	PASS
95	95	100	100	100.0	61856	PASS
96	95	5	9	7.0	4317	PASS
173	174	0.00	2	1.1	563	PASS
174	95	50	100	84.0	51952	PASS
175	174	5	9	8.3	4335	PASS
176	174	95	101	96.7	50232	PASS
177	176	5	9	7.7	3883	PASS

Data File	Sample Number	Analysis Date:
3M132620.D	CAL @ 0.5 PPB	07/13/18 20:24
3M132621.D	CAL @ 1 PPB	07/13/18 20:41
3M132622.D	CAL @ 5 PPB	07/13/18 20:58
3M132623.D	CAL @ 10 PPB	07/13/18 21:14
3M132624.D	CAL @ 20 PPB	07/13/18 21:31
3M132625.D	CAL @ 500 PPB	07/13/18 21:48
3M132628.D	CAL @ 250 PPB	07/13/18 22:37
3M132631.D	CAL @ 100 PPB	07/13/18 23:28
3M132634.D	CAL @ 50 PPB	07/14/18 00:22
3M132637.D	ICV	07/14/18 01:13
3M132643.D	DAILY BLANK	07/14/18 02:55
3M132644.D	AD05312-001	07/14/18 03:12
3M132645.D	AD05377-001	07/14/18 03:29
3M132646.D	AD05357-003	07/14/18 03:45
3M132647.D	AD05357-005	07/14/18 04:03
3M132648.D	MBS70502	07/14/18 04:19
3M132649.D	AD05357-008(MS)	07/14/18 04:36
3M132650.D	AD05357-008(MSD	07/14/18 04:53
3M132651.D	AD05357-008	07/14/18 05:10
3M132652.D	AD05357-002	07/14/18 05:27
3M132653.D	AD05357-001	07/14/18 05:44
3M132654.D	AD05357-006	07/14/18 06:01
3M132655.D	AD05357-004	07/14/18 06:18
3M132656.D	AD05357-007	07/14/18 06:35
3M132657.D	MBS70503	07/14/18 06:51

8081617 0065

Data Path : G:\GcMsData\2018\GCMS_3\Data\07-13-18\
Data File : 3M132618.D
Acq On : 13 Jul 2018 19:52
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 26 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2018\GCMS_3\MethodQt\3M_A0713.M
Title : @GCMS_3,ug,624,8260
Last Update : Mon Jul 16 14:57:47 2018

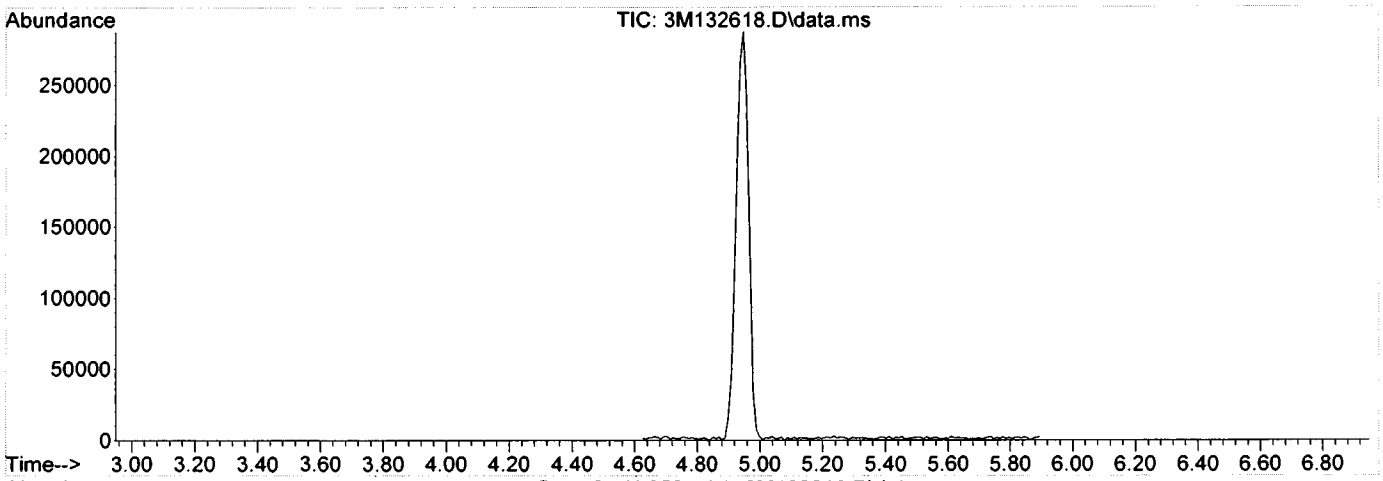

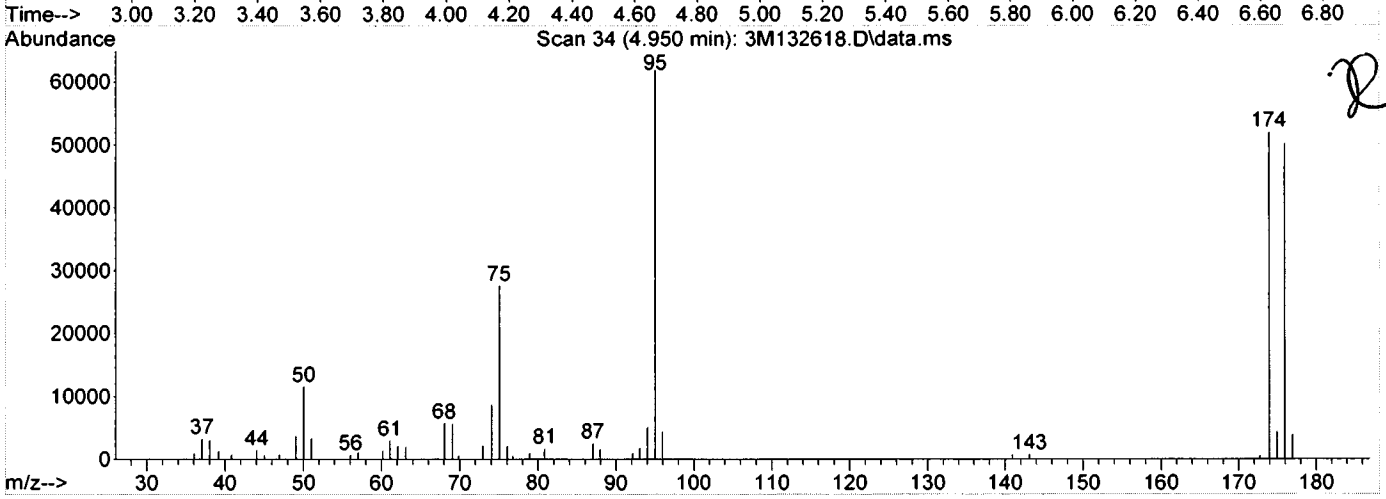

Spectrum Information: Scan 34

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	11574	PASS
75	95	30	60	44.6	27616	PASS
95	95	100	100	100.0	61856	PASS
96	95	5	9	7.0	4317	PASS
173	174	0.00	2	1.1	563	PASS
174	95	50	100	84.0	51952	PASS
175	174	5	9	8.3	4335	PASS
176	174	95	101	96.7	50232	PASS
177	176	5	9	7.7	3883	PASS

Form 5

8081617 0066

Tune Name: BFB TUNE
Instrument: GCMS 3

Data File: 3M134826.D
Analysis Date: 08/22/18 12:30
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.913 to 4.992 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	22.1	6132	PASS
75	95	30	60	48.6	13487	PASS
95	95	100	100	100.0	27743	PASS
96	95	5	9	7.3	2021	PASS
173	174	0.00	2	0.3	60	PASS
174	95	50	100	76.4	21201	PASS
175	174	5	9	7.5	1593	PASS
176	174	95	101	97.0	20575	PASS
177	176	5	9	6.9	1420	PASS

Data File	Sample Number	Analysis Date:
3M134827.D	20 PPB	08/22/18 12:39
3M134828.D	CAL @ 20 PPB	08/22/18 12:56
3M134829.D	BLK	08/22/18 13:17
3M134830.D	DAILY BLANK	08/22/18 13:34
3M134831.D	DAILY BLANK	08/22/18 13:51
3M134832.D	AD06007-003	08/22/18 14:09
3M134833.D	AD06026-002	08/22/18 14:26
3M134834.D	MBS70992	08/22/18 14:43
3M134835.D	AD06069-001(MS)	08/22/18 15:00
3M134836.D	AD06069-001(MSD	08/22/18 15:18
3M134837.D	MBS70993	08/22/18 15:35
3M134838.D	AD06069-001	08/22/18 15:53
3M134839.D	AD06006-001(T)	08/22/18 16:10
3M134840.D	AD05999-001(T)	08/22/18 16:27
3M134841.D	AD06064-001(T)	08/22/18 16:45
3M134842.D	AD06064-002(T)	08/22/18 17:02
3M134843.D	AD06064-003(T)	08/22/18 17:19
3M134844.D	AD06027-001(T)	08/22/18 17:36
3M134845.D	AD05997-004(5X)	08/22/18 17:53
3M134846.D	BLK	08/22/18 18:08
3M134847.D	AD05997-005(10X)	08/22/18 18:27
3M134848.D	BLK	08/22/18 18:44
3M134849.D	AD06006-001(T:M	08/22/18 19:01
3M134850.D	AD06006-001(T:M	08/22/18 19:19
3M134851.D	EF-1-V-285748(082	08/22/18 19:36
3M134852.D	AD06079-003	08/22/18 19:53
3M134853.D	AD06079-004	08/22/18 20:10
3M134854.D	AD06079-003	08/22/18 20:27
3M134855.D	AD06077-001	08/22/18 20:45
3M134856.D	EF-1-285748(0821	08/22/18 21:02
3M134857.D	AD05962-017(T)	08/22/18 21:20
3M134858.D	AD05962-018(T)	08/22/18 21:37
3M134859.D	AD05962-019(T)	08/22/18 21:54
3M134860.D	AD05962-020(T)	08/22/18 22:08
3M134861.D	AD05962-021(T)	08/22/18 22:25
3M134862.D	AD05962-022(T)	08/22/18 22:43
3M134863.D	AD05962-023(T)	08/22/18 23:02
3M134864.D	AD06079-002	08/22/18 23:17
3M134865.D	AD06079-001	08/22/18 23:37
3M134866.D	BLK	08/22/18 23:54
3M134867.D	BLK	08/23/18 00:11
3M134868.D	AD06085-001	08/23/18 00:28
3M134869.D	BLK	08/23/18 00:45

8081617 0067

Data Path : G:\GcMsData\2018\GCMS_3\Data\08-22-18\
Data File : 3M134826.D
Acq On : 22 Aug 2018 12:30
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 17 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2018\GCMS_3\MethodQt\3M_A0713.M
Title : @GCMS_3,ug,624,8260
Last Update : Mon Jul 16 14:57:47 2018

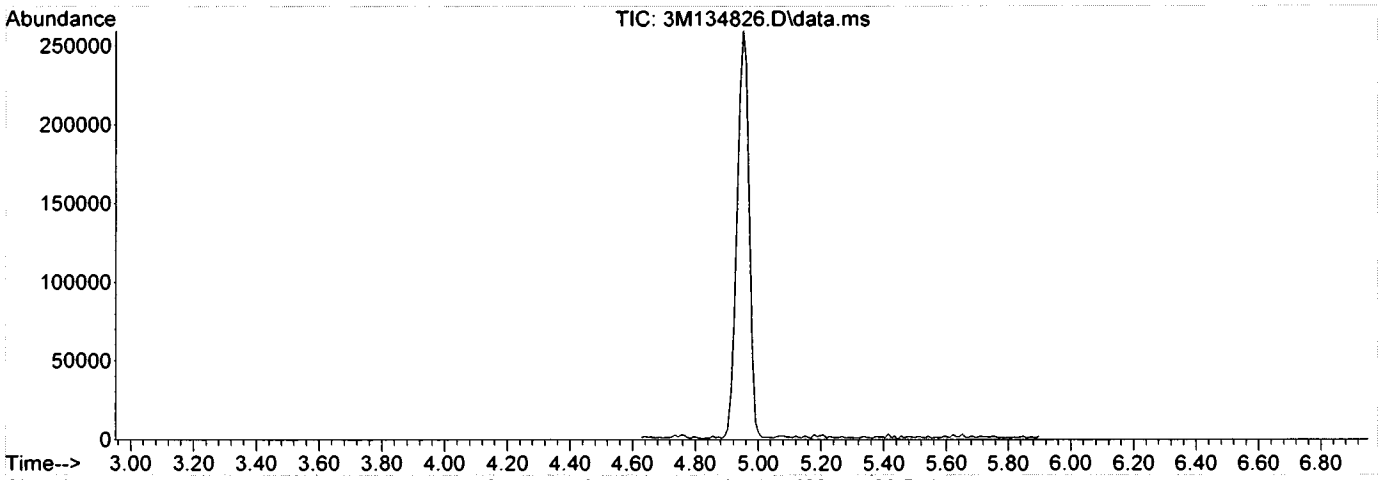

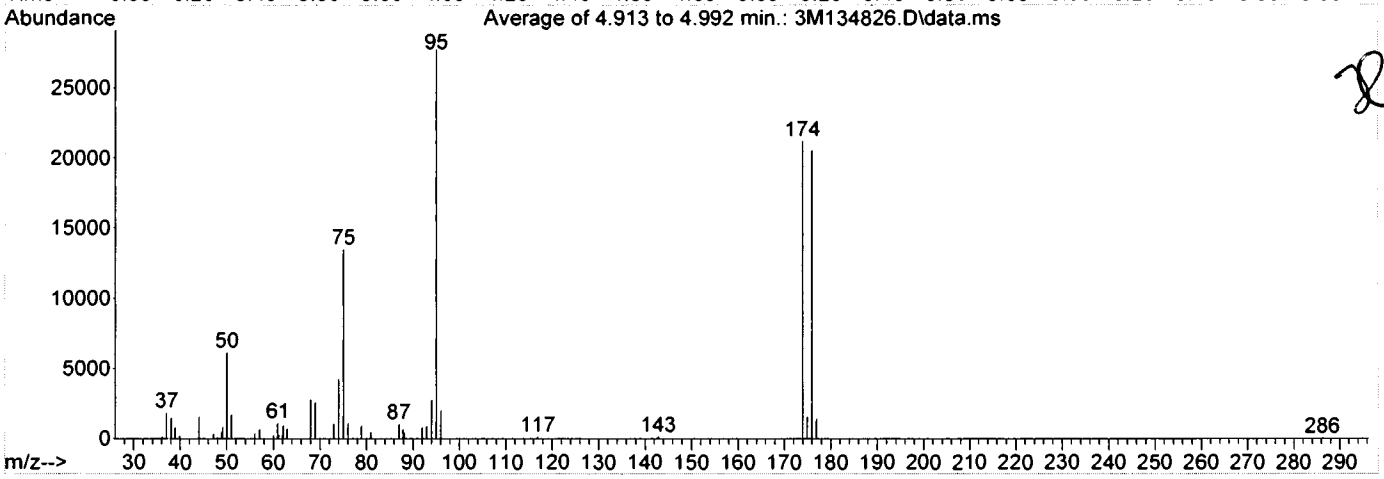

Spectrum Information: Average of 4.913 to 4.992 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.1	6132	PASS
75	95	30	60	48.6	13487	PASS
95	95	100	100	100.0	27743	PASS
96	95	5	9	7.3	2021	PASS
173	174	0.00	2	0.3	60	PASS
174	95	50	100	76.4	21201	PASS
175	174	5	9	7.5	1593	PASS
176	174	95	101	97.0	20575	PASS
177	176	5	9	6.9	1420	PASS

8081617 0068

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3M132624.D	CAL @ 20 PPB	07/13/18 21:31	2	3M132622.D	CAL @ 5 PPB	07/13/18 20:58
3	3M132623.D	CAL @ 10 PPB	07/13/18 21:14	4	3M132634.D	CAL @ 50 PPB	07/14/18 00:22
5	3M132631.D	CAL @ 100 PPB	07/13/18 23:28	6	3M132628.D	CAL @ 250 PPB	07/13/18 22:37
7	3M132625.D	CAL @ 500 PPB	07/13/18 21:48	8	3M132621.D	CAL @ 1 PPB	07/13/18 20:41
9	3M132620.D	CAL @ 0.5 PPB	07/13/18 20:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Qua	0.3510	0.4710	0.3974	0.3687	0.3853	0.3794	0.3749	0.6123	-----	0.418	1.68	1.00	1.00	21	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dichlorodifluorometha	1	0	Avg	0.0833	0.0724	0.0948	0.0876	0.0857	0.0936	0.0944	0.0730	-----	0.0856	1.61	1.00	1.00	11	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloromethane	1	0	Avg	0.1616	0.1690	0.1859	0.1475	0.1454	0.1510	0.1467	0.1020	-----	0.151	1.81	1.00	1.00	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromomethane	1	0	Avg	0.0662	0.0722	0.0730	0.0705	0.0703	0.0486	-----	0.0586	-----	0.0657	2.13	0.969	0.999	14	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Vinyl Chloride	1	0	Avg	0.1268	0.1443	0.1552	0.1331	0.1375	0.1347	0.1359	0.1592	-----	0.141	1.84	1.00	1.00	8.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroethane	1	0	Qua	0.0807	0.0784	0.0824	0.0700	0.0757	0.0650	0.0490	0.1103	-----	0.0765	2.21	0.974	1.00	23	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichlorofluoromethan	1	0	Avg	0.2515	0.3028	0.2649	0.2628	0.2560	0.2618	0.2501	0.2027	-----	0.257	2.42	1.00	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl ether	1	0	Avg	0.2444	0.2483	0.2577	0.2435	0.2468	0.2209	0.2123	0.2194	-----	0.237	2.65	0.999	1.00	7.0	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Furan	1	0	Avg	0.5621	0.6583	0.6615	0.6194	0.5994	0.5780	0.5351	0.6410	-----	0.607	2.69	0.998	1.00	7.6	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1340	0.1491	0.1327	0.1190	0.1236	0.1177	0.1035	0.1225	-----	0.125	2.84	0.996	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methylene Chloride	1	0	Avg	0.2515	0.2964	0.2733	0.2461	0.2536	0.2312	0.2148	0.2073	-----	0.247	3.23	0.998	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acrolein	1	0	Avg	0.0437	0.0480	0.0487	0.0435	0.0421	0.0427	0.0397	0.0470	-----	0.0445	2.77	0.999	1.00	7.1		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Acrylonitrile	1	0	Avg	0.1001	0.1006	0.1129	0.1061	0.1056	0.0971	0.0939	0.0939	-----	0.101	3.44	0.999	1.00	6.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iodomethane	1	0	Avg	0.2459	0.2288	0.2485	0.2491	0.2514	0.2433	0.2332	0.2522	-----	0.244	2.98	0.999	1.00	3.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acetone	1	0	Avg	0.0966	0.1067	0.0997	0.0906	0.0956	0.0900	0.0845	0.1049	-----	0.0961	2.92	0.999	1.00	7.9	0.10 a	100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Carbon Disulfide	1	0	Avg	0.4774	0.4973	0.5048	0.4986	0.5018	0.4970	0.4663	0.5384	-----	0.498	3.05	0.999	1.00	4.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butyl Alcohol	1	0	Avg	0.0279	0.0270	0.0276	0.0265	0.0279	0.0290	0.0278	0.0309	-----	0.0281	3.35	1.00	1.00	4.9		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
n-Hexane	1	0	Avg	0.1049	0.1259	0.1056	0.0970	0.0998	0.1101	0.1005	0.1294	-----	0.109	3.68	0.998	0.999	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Di-isopropyl-ether	1	0	Avg	0.9419	0.9275	1.0613	0.9574	0.9188	0.8352	0.6926	1.0667	-----	0.925	3.84	0.989	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethene	1	0	Avg	0.3164	0.3471	0.3433	0.3347	0.3396	0.3238	0.3034	0.3052	-----	0.327	2.85	0.999	1.00	5.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl Acetate	1	0	Avg	0.3600	0.4007	0.3868	0.3613	0.3608	0.3567	0.3327	0.4831	-----	0.380	3.14	0.999	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl-t-butyl ether	1	0	Avg	0.6184	0.7110	0.7012	0.6563	0.6349	0.5624	0.4782	0.5921	0.6349	0.621	3.46	0.991	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
1,1-Dichloroethane	1	0	Avg	0.4187	0.4633	0.4572	0.4390	0.4211	0.4068	0.3718	0.4846	-----	0.433	3.80	0.998	1.00	8.3	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,2-Dichloroethe	1	0	Avg	0.2064	0.2435	0.2484	0.2105	0.2132	0.1938	0.1713	0.2697	-----	0.220	3.46	0.995	1.00	15	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl-t-butyl ether	1	0	Avg	0.8065	0.8333	0.9293	0.8213	0.8275	0.7471	0.6292	0.8974	-----	0.812	4.10	0.991	1.00	11	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,2-Dichloroethene	1	0	Avg	0.4883	0.4951	0.5440	0.4818	0.4640	0.4191	0.3667	0.4760	-----	0.467	4.22	0.994	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromochloromethane	1	0	Avg	0.3104	0.3320	0.3406	0.3068	0.2973	0.2897	0.2678	0.3177	-----	0.308	4.39	0.998	1.00	7.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2,2-Dichloropropane	1	0	Avg	0.3301	0.3565	0.3863	0.3033	0.3066	0.2866	0.2383	0.3482	-----	0.320	4.22	0.991	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl acetate	1	0	Avg	0.3592	0.3077	0.4324	0.3746	0.3525	0.3306	0.3071	0.3861	-----	0.356	4.25	0.998	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dioxane	1	0	Avg	0.0026	0.0027	0.0031	0.0026	0.0027	0.0026	0.0023	0.0022	-----	0.00265	5.41	0.997	1.00	11		1000.	250.0	500.0	2500.	5000.	1250	2500	50.00	
1,1-Dichloropropene	1	0	Avg	0.3008	0.3564	0.3224	0.3015	0.2894	0.2648	0.2164	0.3176	-----	0.296	4.66	0.988	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroform	1	0	Avg	0.4571	0.4824	0.5004	0.4719	0.4457	0.4329	0.3949	0.4677	-----	0.457	4.42	0.998	1.00	7.1	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromofluoromethan	1	0	Avg	0.2591	0.2618	0.2853	0.2683	0.2535	0.2553	0.2507	0.2634	0.2590	0.262	4.53	-1	-1	3.9		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.2326	0.2337	0.2444	0.2322	0.2269	0.2381	0.2088	0.2381	-----	0.232	4.60	0.996	0.999	4.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloroethane-d4	1	0	Avg	0.1821	0.2006	0.1967	0.1884	0.1915	0.1801	0.1672	0.1860	0.1893	0.187	4.75	-1	-1	5.3		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.4325	0.4818	0.4866	0.4252	0.4012	0.3432	0.2891	0.5478	0.4692	0.431	4.80	0.990	1.00	18	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
2-Butanone	1	0	Avg	0.1488	0.1776	0.1303	0.1347	0.1274	0.1282	0.0958	0.1770	-----	0.140	4.24	0.977	0.999	20	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1-Trichloroethane	1	0	Avg	0.3469	0.4099	0.3833	0.3654	0.3587	0.3368	0.2913	0.3695	-----	0.358	4.56	0.994	1.00	9.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Carbon Tetrachloride	1	0	Avg	0.2755	0.2720	0.3099	0.2814	0.2660	0.2432	0.2062	0.2461	-----	0.263	4.66	0.992	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Acetate	1	0	Avg	0.7093	0.7479	0.7589	0.7055	0.6759	0.6379	0.5479	0.8162	-----	0.700	3.84	0.994	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromodichloromethan	1	0	Avg	0.3542	0.3862	0.3965	0.3748	0.3819	0.3616	0.3127	0.3777	-----	0.368	5.48	0.994	1.00	7.1	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.4
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3M132624.D	CAL @ 20 PPB	07/13/18 21:31	2	3M132622.D	CAL @ 5 PPB	07/13/18 20:58
3	3M132623.D	CAL @ 10 PPB	07/13/18 21:14	4	3M132634.D	CAL @ 50 PPB	07/14/18 00:22
5	3M132631.D	CAL @ 100 PPB	07/13/18 23:28	6	3M132628.D	CAL @ 250 PPB	07/13/18 22:37
7	3M132625.D	CAL @ 500 PPB	07/13/18 21:48	8	3M132621.D	CAL @ 1 PPB	07/13/18 20:41
9	3M132620.D	CAL @ 0.5 PPB	07/13/18 20:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.1405	0.1686	0.1619	0.1394	0.1460	0.1441	0.1226	0.1670	-----	0.149	5.31	0.993	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromomethane	1	0	Avg	0.2497	0.2594	0.2847	0.2376	0.2292	0.2006	0.1667	0.2560	-----	0.236	5.40	0.989	1.00	16		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloropropane	1	0	Avg	0.2744	0.2846	0.3327	0.2754	0.2721	0.2536	0.2087	0.2420	-----	0.268	5.32	0.989	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichloroethene	1	0	Avg	0.2489	0.2676	0.2864	0.2628	0.2469	0.2272	0.1883	0.2876	-----	0.252	5.18	0.990	1.00	13	0.20 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Benzene	1	0	Avg	0.9238	1.0203	0.9729	0.8748	0.8092	0.6635	0.5136	0.9419	0.9874	0.856	4.79	0.976	1.00	20	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.7756	0.7899	0.7973	0.7409	0.7312	0.6321	0.5403	0.7816	-----	0.724	4.84	0.991	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iso-propylacetate	1	0	Avg	0.9434	0.8422	0.8851	0.8920	0.8879	0.7961	0.6198	1.0295	-----	0.862	4.79	0.981	1.00	14	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl methacrylate	1	0	Avg	0.5071	0.4615	0.5363	0.4954	0.5462	0.5435	0.4864	0.6384	-----	0.527	5.35	0.997	1.00	10	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromochloromethan	1	0	Avg	0.3755	0.3320	0.3444	0.3742	0.3912	0.3816	0.3311	0.3249	-----	0.357	6.44	0.995	1.00	7.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chloroethylvinylethe	1	0	Avg	0.2399	0.1928	0.2342	0.2398	0.2484	0.2538	0.2298	0.2186	-----	0.232	5.64	0.998	1.00	8.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,3-Dichloropropen	1	0	Avg	0.6062	0.5512	0.5705	0.5609	0.6023	0.5918	0.5076	0.5869	-----	0.572	5.74	0.994	1.00	5.7	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,3-Dichloroprop	1	0	Avg	0.5467	0.6006	0.5334	0.5247	0.5643	0.5554	0.4709	0.4712	-----	0.533	6.07	0.993	1.00	8.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl methacrylate	1	0	Avg	0.5039	0.4951	0.4942	0.5145	0.5117	0.5071	0.4381	0.4704	-----	0.492	6.09	0.994	1.00	5.2	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloroethane	1	0	Avg	0.3197	0.3242	0.3372	0.3108	0.3111	0.3026	0.2652	0.4143	-----	0.323	6.19	0.996	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromoethane	1	0	Avg	0.3362	0.3015	0.3112	0.3184	0.3328	0.3287	0.2852	0.2782	-----	0.312	6.53	0.995	1.00	7.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.5672	0.5776	0.5692	0.5384	0.5209	0.4812	0.3859	0.6342	-----	0.534	6.29	0.986	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.4417	0.4221	0.4530	0.4476	0.4664	0.4778	0.4437	0.4237	-----	0.447	5.82	0.999	1.00	4.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Hexanone	1	0	Avg	0.3193	0.2945	0.3137	0.3186	0.3212	0.3227	0.2882	0.3302	-----	0.314	6.31	0.997	1.00	4.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Tetrachloroethene	1	0	Qua	0.2539	0.2896	0.2652	0.2256	0.2170	0.1827	0.1351	0.2558	-----	0.228	6.30	0.970	1.00	22	0.20 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Toluene-d8	1	0	Avg	1.2609	1.2387	1.3042	1.2837	1.3223	1.3874	1.4031	1.2554	1.2793	1.30	5.92	-1	-1	4.4		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.6828	0.7706	0.7403	0.6772	0.6904	0.6415	0.5319	0.7970	-----	0.692	5.95	0.990	1.00	12	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.3070	0.2877	0.3038	0.2966	0.2902	0.2491	0.1977	0.2416	-----	0.272	6.85	0.982	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chlorobenzene	1	0	Avg	0.7976	0.8339	0.8457	0.7846	0.7815	0.7148	0.5879	0.9010	-----	0.781	6.81	0.989	1.00	12	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butyl acrylate	1	0	Avg	1.6052	1.3828	1.5425	1.6706	1.7794	1.8110	1.5570	1.5117	-----	1.61	7.08	0.994	0.999	8.8	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Amyl acetate	1	0	Avg	1.5159	1.4883	1.4992	1.5563	1.5915	1.6486	1.4381	1.7194	-----	1.56	7.21	0.995	0.999	5.9	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromoform	1	0	Avg	0.6271	0.5919	0.5878	0.6542	0.6845	0.7037	0.6046	0.5022	-----	0.620	7.32	0.994	0.999	10	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethylbenzene	1	0	Qua	0.4180	0.5272	0.4661	0.4576	0.4263	0.3883	0.2876	0.7641	-----	0.467	6.86	0.973	1.00	30	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.8183	0.8485	0.7869	0.7779	0.7957	0.8385	0.7389	0.9074	-----	0.814	7.56	0.996	0.999	6.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromofluorobenzene	1	0	Avg	1.0959	1.1597	1.1029	1.1113	1.1162	1.1789	1.2399	1.1227	1.1403	1.14	7.50	-1	-1	4.0		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.5345	1.5950	1.6236	1.5425	1.4887	1.3460	1.0307	1.5201	-----	1.46	7.17	0.978	1.00	13	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
m&p-Xylenes	1	0	Avg	0.7379	0.8464	0.7884	0.7681	0.7430	0.6943	0.5179	0.7611	0.7453	0.734	6.92	0.975	1.00	12	0.10	40.00	10.00	20.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.8126	0.8517	0.8296	0.7886	0.7604	0.6981	0.5399	0.8705	-----	0.769	7.17	0.981	1.00	14	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.3441	0.3071	0.3336	0.3315	0.3433	0.3754	0.3174	0.4246	-----	0.347	7.58	0.993	0.999	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichlorobenzene	1	0	Avg	1.0101	1.0712	1.0769	0.9851	1.0164	0.9717	0.8002	1.1173	-----	1.01	8.20	0.990	1.00	9.6	0.60	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dichlorobenzene	1	0	Avg	1.0277	1.1248	1.1420	1.0236	1.0100	0.9794	0.8246	1.2033	-----	1.04	8.26	0.992	1.00	11	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichlorobenzene	1	0	Avg	1.0735	1.2126	1.1057	1.0399	1.0207	0.9837	0.8465	1.2189	-----	1.06	8.51	0.994	1.00	11	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Isopropylbenzene	1	0	Avg	1.5183	1.7023	1.6267	1.5670	1.5930	1.6460	1.3891	1.5483	-----	1.57	7.38	0.993	0.999	6.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.1098	0.0897	0.1013	0.0896	0.1135	0.1014	0.1024	0.1443	-----	0.107	7.48	0.999	0.999	16		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Camphene	1	0	Avg	0.4735	0.4945	0.4767	0.4240	0.4336	0.4774	0.3841	0.6747	-----	0.480	7.58	0.988	0.998	18		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichloropropane	1	0	Avg	1.0119	1.0942	1.1257	1.0239	1.0429	1.0250	0.8356	0.9908	-----	1.02	7.60	0.989	0.999	8.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chlorotoluene	1	0	Avg	0.9887	1.1707	1.0530	0.9426	0.9333	0.8217	0.6481	1.1072	-----	0.958	7.72	0.983	1.00	17		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.4
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3M132624.D	CAL @ 20 PPB	07/13/18 21:31	2	3M132622.D	CAL @ 5 PPB	07/13/18 20:58
3	3M132623.D	CAL @ 10 PPB	07/13/18 21:14	4	3M132634.D	CAL @ 50 PPB	07/14/18 00:22
5	3M132631.D	CAL @ 100 PPB	07/13/18 23:28	6	3M132628.D	CAL @ 250 PPB	07/13/18 22:37
7	3M132625.D	CAL @ 500 PPB	07/13/18 21:48	8	3M132621.D	CAL @ 1 PPB	07/13/18 20:41
9	3M132620.D	CAL @ 0.5 PPB	07/13/18 20:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	1.6003	1.7529	1.7171	1.6238	1.7439	1.6777	1.2854	1.7762	-----	1.65	7.70	0.980	0.999	9.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Chlorotoluene	1	0	Avg	1.0377	1.0889	1.1012	1.0533	1.0281	0.9879	0.7789	1.2256	-----	1.04	7.79	0.984	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Propylbenzene	1	0	Avg	1.5533	1.8148	1.7237	1.6614	1.6678	1.7346	1.4299	1.6753	-----	1.66	7.64	0.991	0.999	7.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.6105	1.7279	1.7822	1.6335	1.6548	1.5869	1.3073	1.8697	-----	1.65	7.61	0.990	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3,5-Trimethylbenzen	1	0	Qua	1.1932	1.4808	1.1470	1.1385	0.9756	0.9170	0.6826	0.9627	-----	1.06	7.74	0.974	0.999	22		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	1.2745	1.2191	1.2805	1.2051	1.2306	1.1806	0.9365	1.0511	-----	1.17	7.74	0.985	1.00	10	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.0552	1.2129	1.1016	1.0460	1.0720	1.1298	0.9369	1.2009	-----	1.09	7.96	0.991	0.999	8.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.3729	1.4304	1.4779	1.3642	1.3541	1.3692	1.1417	1.3250	-----	1.35	7.99	0.992	0.999	7.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	1.1131	1.2832	1.2195	1.1657	1.1835	1.2856	1.1350	1.3423	-----	1.22	8.10	0.996	0.999	6.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	1.0037	1.0276	1.0786	1.0026	1.0302	1.0850	0.9099	1.1017	-----	1.03	8.17	0.992	0.999	6.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	1.0961	1.1568	1.1278	1.0670	1.0924	1.1916	1.0286	1.2136	-----	1.12	8.44	0.995	0.999	5.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.6336	0.7438	0.6704	0.6606	0.6715	0.6990	0.6067	0.6613	-----	0.668	8.42	0.995	0.999	6.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4,5-Tetramethylbe	1	0	Avg	0.9435	1.0447	0.9956	1.0077	1.0081	1.1149	0.9609	1.3682	-----	1.06	8.93	0.995	0.999	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromo-3-Chloro	1	0	Avg	0.1698	0.1819	0.1709	0.1840	0.1836	0.1979	0.1913	0.1782	-----	0.182	9.01	1.00	1.00	5.2	0.05	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Camphor	1	0	Avg	0.0760	0.0658	0.0754	0.0736	0.0756	0.0785	0.0684	0.0880	0.0721	0.0749	9.50	0.996	0.999	8.5		200.0	50.00	100.0	500.0	1000.	2500.	5000.	10.00	5.00
Hexachlorobutadiene	1	0	Avg	0.3145	0.3942	0.3421	0.3240	0.3238	0.3569	0.3009	0.5075	-----	0.358	9.66	0.993	0.998	19		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trichlorobenzen	1	0	Avg	0.5431	0.5799	0.5712	0.5191	0.5169	0.5287	0.4664	0.6313	-----	0.545	9.56	0.996	1.00	9.1	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichlorobenzen	1	0	Avg	0.5022	0.5563	0.5185	0.4962	0.4729	0.5047	0.4544	0.6507	-----	0.520	9.90	0.997	0.999	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Naphthalene	1	0	Avg	1.1900	1.2449	1.1589	1.1803	1.2305	1.2677	1.1769	1.5613	-----	1.25	9.74	0.999	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.4
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 3M134828.D **Instrument:** GCMS 3

Cont Calibration Date/Time 8/22/2018 12:56:00 P Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	4.93	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.59	21.70	20	20	0.1	0.418	0.416	8.51	
Dichlorodifluoromethane	1	0		1.54	20.89	20	20	0.1	0.086	0.089	4.44	
Chloromethane	1	0		1.74	28.41	20	20	0.1	0.151	0.215	42.03	C1
Bromomethane	1	0		2.08	29.00	20	20	0.1	0.066	0.095	45.02	C1
Vinyl Chloride	1	0		1.79	22.34	20	20	0.1	0.141	0.157	11.70	
Chloroethane	1	0		2.16	22.89	20	20	0.1	0.076	0.091	14.47	
Trichlorofluoromethane	1	0		2.37	16.73	20	20	0.1	0.257	0.215	16.33	
Ethyl ether	1	0		2.61	20.64	20	20	0.5	0.237	0.244	3.21	
Furan	1	0		2.64	19.44	20	20	0.5	0.607	0.590	2.81	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.79	16.71	20	20	0.1	0.125	0.105	16.46	
Methylene Chloride	1	0		3.19	22.38	20	20	0.1	0.247	0.276	11.88	
Acrolein	1	0		2.72	59.31	100	20		0.044	0.026	40.69	C1
Acrylonitrile	1	0		3.40	19.70	20	20		0.101	0.100	1.52	
Iodomethane	1	0		2.93	19.97	20	20		0.244	0.244	0.16	
Acetone	1	0		2.84	100.07	100	20	0.1	0.096	0.096	0.07	
Carbon Disulfide	1	0		3.00	20.93	20	20	0.1	0.498	0.521	4.64	
t-Butyl Alcohol	1	0		3.28	75.09	100	20		0.028	0.021	24.91	C1
n-Hexane	1	0		3.64	11.05	20	20		0.109	0.060	44.77	C1
Di-isopropyl-ether	1	0		3.81	19.79	20	20		0.925	0.915	1.06	
1,1-Dichloroethene	1	0		2.79	17.54	20	20	0.1	0.327	0.287	12.28	
Methyl Acetate	1	0		3.11	21.82	20	20	0.1	0.380	0.415	9.12	
Methyl-t-butyl ether	1	0		3.42	18.85	20	20	0.1	0.621	0.585	5.76	
1,1-Dichloroethane	1	0		3.77	21.70	20	20	0.2	0.433	0.470	8.50	
trans-1,2-Dichloroethene	1	0		3.42	20.98	20	20	0.1	0.220	0.230	4.92	
Ethyl-t-butyl ether	1	0		4.07	18.82	20	20	0.5	0.812	0.764	5.89	
cis-1,2-Dichloroethene	1	0		4.19	19.76	20	20	0.1	0.467	0.461	1.22	
Bromochloromethane	1	0		4.36	22.61	20	20		0.308	0.348	13.07	
2,2-Dichloropropane	1	0		4.19	14.27	20	20		0.320	0.228	28.65	C1
Ethyl acetate	1	0		4.22	21.61	20	20		0.356	0.385	8.03	
1,4-Dioxane	1	0		5.40	1177.68	1000	20		0.003	0.003	17.77	
1,1-Dichloropropene	1	0		4.63	21.74	20	20		0.296	0.322	8.70	
Chloroform	1	0		4.40	21.92	20	20	0.2	0.457	0.501	9.62	
Dibromofluoromethane	1	0	S	4.51	29.93	30	**		0.262	0.261	0.24	
Cyclohexane	1	0		4.57	15.89	20	20	0.1	0.232	0.184	20.57	C1
1,2-Dichloroethane-d4	1	0	S	4.73	32.43	30	**		0.187	0.202	8.12	
1,2-Dichloroethane	1	0		4.78	21.21	20	20	0.1	0.431	0.457	6.03	
2-Butanone	1	0		4.21	18.67	20	20	0.1	0.140	0.131	6.63	
1,1,1-Trichloroethane	1	0		4.53	20.30	20	20	0.1	0.358	0.363	1.52	
Carbon Tetrachloride	1	0		4.64	22.55	20	20	0.1	0.263	0.296	12.76	
Vinyl Acetate	1	0		3.80	18.79	20	20		0.700	0.658	6.06	
Bromodichloromethane	1	0		5.47	22.13	20	20	0.2	0.368	0.408	10.66	
Methylcyclohexane	1	0		5.29	19.07	20	20	0.1	0.149	0.142	4.63	
Dibromomethane	1	0		5.38	19.45	20	20		0.236	0.229	2.76	
1,2-Dichloropropane	1	0		5.31	20.84	20	20	0.1	0.268	0.279	4.22	
Trichloroethene	1	0		5.16	20.20	20	20	0.2	0.252	0.255	1.01	
Benzene	1	0		4.77	23.73	20	20	0.5	0.856	1.016	18.63	
tert-Amyl methyl ether	1	0		4.82	18.85	20	20		0.724	0.682	5.73	
Chlorobenzene-d5	1	0	I	6.78	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.77	17.13	20	20	0.5	0.862	0.738	14.35	
Methyl methacrylate	1	0		5.34	16.89	20	20	0.5	0.527	0.445	15.56	
Dibromochloromethane	1	0		6.43	18.69	20	20	0.1	0.357	0.334	6.55	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 3M134828.D **Instrument:** GCMS 3

Cont Calibration Date/Time 8/22/2018 12:56:00 P Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.62	17.09	20	20		0.232	0.198	14.55	
cis-1,3-Dichloropropene	1	0		5.73	16.41	20	20	0.2	0.572	0.470	17.93	
trans-1,3-Dichloropropene	1	0		6.06	16.69	20	20	0.1	0.533	0.445	16.55	
Ethyl methacrylate	1	0		6.08	16.86	20	20	0.5	0.492	0.415	15.70	
1,1,2-Trichloroethane	1	0		6.18	18.56	20	20	0.1	0.323	0.300	7.18	
1,2-Dibromoethane	1	0		6.52	18.33	20	20	0.1	0.312	0.286	8.35	
1,3-Dichloropropane	1	0		6.28	20.83	20	20		0.534	0.557	4.16	
4-Methyl-2-Pentanone	1	0		5.81	16.27	20	20	0.1	0.447	0.364	18.67	
2-Hexanone	1	0		6.30	15.93	20	20	0.1	0.314	0.250	20.36	
Tetrachloroethene	1	0		6.28	17.22	20	20	0.2	0.228	0.198	13.88	
Toluene-d8	1	0	S	5.91	28.33	30	**		1.304	1.231	5.56	
Toluene	1	0		5.95	19.23	20	20	0.4	0.692	0.665	3.86	
1,1,1,2-Tetrachloroethane	1	0		6.84	21.48	20	20		0.272	0.292	7.39	
Chlorobenzene	1	0		6.80	18.07	20	20	0.5	0.781	0.706	9.65	
1,4-Dichlorobenzene-d4	1	0	I	8.24	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.08	15.32	20	20	0.5	1.608	1.231	23.40	C1
n-Amyl acetate	1	0		7.21	16.28	20	20	0.5	1.557	1.267	18.62	
Bromoform	1	0		7.31	18.35	20	20	0.1	0.620	0.568	8.28	
Ethylbenzene	1	0		6.85	18.13	20	20	0.1	0.467	0.428	9.37	
1,1,2,2-Tetrachloroethane	1	0		7.55	19.89	20	20	0.1	0.814	0.810	0.54	
Bromofluorobenzene	1	0	S	7.50	27.84	30	**		1.141	1.059	7.19	
Styrene	1	0		7.17	20.61	20	20	0.3	1.460	1.504	3.03	
m&p-Xylenes	1	0		6.92	41.68	40	20	0.1	0.734	0.764	4.20	
o-Xylene	1	0		7.17	20.68	20	20	0.3	0.769	0.795	3.41	
trans-1,4-Dichloro-2-butene	1	0		7.58	17.29	20	20		0.347	0.300	13.53	
1,3-Dichlorobenzene	1	0		8.19	19.61	20	20	0.6	1.006	0.987	1.93	
1,4-Dichlorobenzene	1	0		8.25	19.07	20	20	0.5	1.042	0.993	4.66	
1,2-Dichlorobenzene	1	0		8.51	19.09	20	20	0.4	1.063	1.014	4.56	
Isopropylbenzene	1	0		7.38	19.75	20	20	0.1	1.574	1.554	1.23	
Cyclohexanone	1	0		7.47	41.06	100	20		0.107	0.044	58.94	C1
Camphene	1	0		7.58	20.11	20	20		0.480	0.483	0.56	
1,2,3-Trichloropropane	1	0		7.60	19.69	20	20		1.019	1.003	1.55	
2-Chlorotoluene	1	0		7.72	21.77	20	20		0.958	1.043	8.87	
p-Ethyltoluene	1	0		7.70	17.77	20	20		1.647	1.463	11.17	
4-Chlorotoluene	1	0		7.78	20.54	20	20		1.038	1.066	2.71	
n-Propylbenzene	1	0		7.64	20.98	20	20		1.658	1.739	4.92	
Bromobenzene	1	0		7.61	19.90	20	20		1.647	1.639	0.48	
1,3,5-Trimethylbenzene	1	0		7.73	20.10	20	20		1.062	1.116	0.48	
Butyl methacrylate	1	0		7.73	18.76	20	20	0.5	1.172	1.099	6.22	
t-Butylbenzene	1	0		7.95	17.72	20	20		1.094	0.970	11.38	
1,2,4-Trimethylbenzene	1	0		7.98	21.01	20	20		1.354	1.423	5.04	
sec-Butylbenzene	1	0		8.09	20.12	20	20		1.216	1.223	0.61	
4-Isopropyltoluene	1	0		8.17	20.99	20	20		1.030	1.081	4.95	
n-Butylbenzene	1	0		8.44	21.97	20	20		1.122	1.232	9.85	
p-Diethylbenzene	1	0		8.42	18.64	20	20		0.668	0.623	6.80	
1,2,4,5-Tetramethylbenzene	1	0		8.93	16.42	20	20		1.056	0.867	17.88	
1,2-Dibromo-3-Chloropropane	1	0		9.01	18.95	20	20	0.05	0.182	0.173	5.26	
Camphor	1	0		9.50	176.81	200	20		0.075	0.066	11.60	
Hexachlorobutadiene	1	0		9.64	20.27	20	20		0.358	0.363	1.36	
1,2,4-Trichlorobenzene	1	0		9.55	21.59	20	20	0.2	0.545	0.588	7.94	
1,2,3-Trichlorobenzene	1	0		9.89	21.80	20	20		0.520	0.566	8.98	
Naphthalene	1	0		9.74	19.09	20	20		1.251	1.195	4.53	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

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FORM8

Internal Standard Areas

Evaluation Std Data File: 3M132624.D Method: EPA 8260C

Analysis Date/Time: 07/13/18 21:31

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	334343	4.94	251682	6.78	127867	8.23								
Eval File Area Limit:	167172-668686		125841-503364		63934-255734									
Eval File Rt Limit:	4.44-5.44		6.28-7.28		7.73-8.73									

Data File	Sample						
3M132620.D	CAL @ 0.5 PPB	347928	4.95	273171	6.78	132705	8.23
3M132621.D	CAL @ 1 PPB	322366	4.95	262629	6.78	125201	8.23
3M132622.D	CAL @ 5 PPB	326196	4.95	261678	6.78	126198	8.23
3M132623.D	CAL @ 10 PPB	314063	4.95	261884	6.78	127378	8.23
3M132624.D	CAL @ 20 PPB	334343	4.94	251682	6.78	127867	8.23
3M132625.D	CAL @ 500 PPB	319125	4.95	231944	6.78	107063	8.23
3M132628.D	CAL @ 250 PPB	334590	4.95	242058	6.78	110343	8.23
3M132631.D	CAL @ 100 PPB	321193	4.95	245256	6.78	120410	8.23
3M132634.D	CAL @ 50 PPB	327811	4.95	257776	6.78	126573	8.23
3M132637.D	ICV	324657	4.95	254995	6.78	125929	8.23
3M132643.D	DAILY BLANK	322128	4.94	248010	6.78	127977	8.23
3M132644.D	AD05312-001	321676	4.94	248795	6.78	126579	8.23
3M132645.D	AD05377-001	319350	4.93	250133	6.78	127384	8.23
3M132646.D	AD05357-003	330036	4.94	256205	6.78	128578	8.23
3M132647.D	AD05357-005	326494	4.94	255272	6.78	132275	8.23
3M132648.D	MBS70502	325965	4.94	247894	6.78	133417	8.23
3M132649.D	AD05357-008(MS)	336966	4.95	263831	6.78	125326	8.23
3M132650.D	AD05357-008(MSD)	321984	4.94	261215	6.78	125056	8.23
3M132651.D	AD05357-008	323339	4.94	253278	6.78	130228	8.23
3M132652.D	AD05357-002	329529	4.94	252921	6.78	126682	8.23
3M132653.D	AD05357-001	323525	4.94	253114	6.78	128850	8.23
3M132654.D	AD05357-006	327324	4.94	258881	6.78	131450	8.23
3M132655.D	AD05357-004	327270	4.94	248709	6.78	134956	8.23
3M132656.D	AD05357-007	323273	4.94	246588	6.78	157539	8.23
3M132657.D	MBS70503	339995	4.95	264803	6.78	141847	8.23

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

8081617 0074

FORM8

Internal Standard Areas

Evaluation Std Data File: 3M134828.D Method: EPA 8260C

Analysis Date/Time: 08/22/18 12:56

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	222547	4.93	193531	6.78	89371	8.24								
Eval File Area Limit:	111274-445094		96766-387062		44686-178742									
Eval File Rt Limit:	4.43-5.43		6.28-7.28		7.74-8.74									

Data File	Sample						
3M134827.D	20 PPB	238911	4.95	203179	6.80	99356	8.25
3M134829.D	BLK	215070	4.93	188678	6.78	85201	8.23
3M134830.D	DAILY BLANK	208719	4.93	184158	6.78	83223	8.24
3M134831.D	DAILY BLANK	209886	4.94	182278	6.79	83838	8.24
3M134832.D	AD06007-003	204883	4.93	183667	6.79	82707	8.23
3M134833.D	AD06026-002	216081	4.93	202001	6.78	117780	8.24
3M134834.D	MBS70992	233183	4.93	208392	6.78	97444	8.23
3M134835.D	AD06069-001(MS)	214220	4.93	190705	6.79	96906	8.24
3M134836.D	AD06069-001(MSD)	214494	4.93	197760	6.79	90255	8.24
3M134837.D	MBS70993	215658	4.94	198030	6.78	87130	8.24
3M134838.D	AD06069-001	235078	4.93	205029	6.79	95994	8.24
3M134839.D	AD06006-001(T)	237725	4.94	204191	6.78	87836	8.24
3M134840.D	AD05999-001(T)	170583	4.94	145151	6.79	66569	8.24
3M134841.D	AD06064-001(T)	210252	4.93	186053	6.79	84681	8.24
3M134842.D	AD06064-002(T)	204618	4.93	180973	6.78	85727	8.24
3M134843.D	AD06064-003(T)	210783	4.94	186580	6.79	81834	8.24
3M134844.D	AD06027-001(T)	198933	4.95	179939	6.80	78783	8.25
3M134845.D	AD05997-004(5X)	214392	4.94	193802	6.78	90585	8.24
3M134846.D	BLK	223165	4.94	187374	6.79	88312	8.24
3M134847.D	AD05997-005(10X)	231005	4.93	211378	6.78	93962	8.24
3M134848.D	BLK	233012	4.93	201848	6.78	93452	8.24
3M134849.D	AD06006-001(T:MS)	221008	4.94	200220	6.79	93559	8.24
3M134850.D	AD06006-001(T:MSD)	237380	4.94	214857	6.79	101535	8.24
3M134851.D	EF-1-V-285748(08211	244901	4.93	213965	6.78	98815	8.23
3M134852.D	AD06079-003	231236	4.93	200658	6.78	91834	8.23
3M134853.D	AD06079-004	217303	4.93	189168	6.78	88411	8.23
3M134854.D	AD06079-003	237306	4.93	208076	6.78	94421	8.23
3M134855.D	AD06077-001	235913	4.93	204560	6.78	90458	8.23
3M134856.D	EF-1-285748(082118)	209563	4.93	189022	6.78	86610	8.23
3M134857.D	AD05962-017(T)	159007	4.93	136889	6.78	65191	8.23
3M134858.D	AD05962-018(T)	217307	4.93	191982	6.78	86697	8.23
3M134859.D	AD05962-019(T)	225126	4.93	199363	6.78	92932	8.23

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

8081617 0075

FORM8

Internal Standard Areas

Evaluation Std Data File: 3M134828.D Method: EPA 8260C

Analysis Date/Time: 08/22/18 12:56

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	222547	4.93	193531	6.78	89371	8.24								
Eval File Area Limit:	111274-445094		96766-387062		44686-178742									
Eval File Rt Limit:	4.43-5.43		6.28-7.28		7.74-8.74									

Data File	Sample						
3M134860.D	AD05962-020(T)	225789	4.93	201634	6.78	92802	8.23
3M134861.D	AD05962-021(T)	224047	4.93	194582	6.78	88844	8.23
3M134864.D	AD06079-002	245772	4.93	214785	6.78	97523	8.23
3M134865.D	AD06079-001	210862	4.93	182123	6.78	82440	8.23
3M134866.D	BLK	225865	4.93	193564	6.78	93162	8.24
3M134867.D	BLK	222672	4.93	190306	6.78	94656	8.23
3M134868.D	AD06085-001	220083	4.93	189991	6.78	95352	8.23
3M134869.D	BLK	201736	4.93	175412	6.78	81415	8.23

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

Base Neutral/Acid Extractable Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD05999-001
Client Id: SS-1
Data File: 7M94025.D
Analysis Date: 08/22/18 14:49
Date Rec/Extracted: 08/16/18-08/22/18
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-95-4	2,4,5-Trichlorophenol	0.035	U	207-08-9	Benzo[k]fluoranthene	0.035	U
120-83-2	2,4-Dichlorophenol	0.0088	U	65-85-0	Benzoic Acid	0.18	U
51-28-5	2,4-Dinitrophenol	0.11	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.035	U
606-20-2	2,6-Dinitrotoluene	0.035	U	85-68-7	Butylbenzylphthalate	0.035	U
95-57-8	2-Chlorophenol	0.035	U	218-01-9	Chrysene	0.035	U
91-57-6	2-Methylnaphthalene	0.035	U	53-70-3	Dibenzo[a,h]anthracene	0.035	U
95-48-7	2-Methylphenol	0.0088	U	132-64-9	Dibenzofuran	0.0088	U
88-74-4	2-Nitroaniline	0.035	U	84-66-2	Diethylphthalate	0.035	U
88-75-5	2-Nitrophenol	0.035	U	131-11-3	Dimethylphthalate	0.035	U
106-44-5	3&4-Methylphenol	0.0088	U	84-74-2	Di-n-butylphthalate	0.0088	U
91-94-1	3,3'-Dichlorobenzidine	0.035	U	117-84-0	Di-n-octylphthalate	0.035	U
99-09-2	3-Nitroaniline	0.035	U	206-44-0	Fluoranthene	0.035	U
59-50-7	4-Chloro-3-methylphenol	0.035	U	86-73-7	Fluorene	0.035	U
106-47-8	4-Chloroaniline	0.0088	U	118-74-1	Hexachlorobenzene	0.035	U
100-02-7	4-Nitrophenol	0.035	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.035	U
83-32-9	Acenaphthene	0.035	U	78-59-1	Isophorone	0.035	U
208-96-8	Acenaphthylene	0.035	U	91-20-3	Naphthalene	0.0088	U
62-53-3	Aniline	0.0088	U	98-95-3	Nitrobenzene	0.035	U
120-12-7	Anthracene	0.035	U	87-86-5	Pentachlorophenol	0.075	U
56-55-3	Benzo[a]anthracene	0.035	U	85-01-8	Phenanthrene	0.035	U
50-32-8	Benzo[a]pyrene	0.035	U	108-95-2	Phenol	0.035	U
205-99-2	Benzo[b]fluoranthene	0.035	U	129-00-0	Pyrene	0.035	U
191-24-2	Benzo[g,h,i]perylene	0.035	U				

Worksheet # 477023 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

8081617 0078

SampleID : AD05999-001 Operator : AH/JB Qt Meth : 7M_0821.M
Data File: 7M94025.D Sam Mult : 1 Vial# : 15 Qt On : 08/22/18 15:13
Acq On : 08/22/18 14:49 Misc : S,BNA Qt Upd On: 08/21/18 12:40

Data Path : G:\GcMsData\2018\GCMS_7\Data\08-22-18\
Qt Path : G:\GCMSDATA\2018\GCMS_7\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
7) 1,4-Dioxane-d8(INT)	2.542	96	67422	40.00 ng	-0.03
21) 1,4-Dichlorobenzene-d4	5.784	152	122121	40.00 ng	0.00
31) Naphthalene-d8	6.794	136	440404	40.00 ng	-0.01
50) Acenaphthene-d10	8.220	164	273502	40.00 ng	-0.02
77) Phenanthrene-d10	9.668	188	474571	40.00 ng	-0.02
91) Chrysene-d12	12.713	240	447943	40.00 ng	-0.02
103) Perylene-d12	14.359	264	376600	40.00 ng	-0.06
System Monitoring Compounds					
11) 2-Fluorophenol	4.598	112	184152	47.50 ng	0.00
Spiked Amount 100.000			Recovery = 47.50%		
16) Phenol-d5	5.475	99	323774	55.68 ng	0.00
Spiked Amount 100.000			Recovery = 55.68%		
32) Nitrobenzene-d5	6.228	128	54068	37.16 ng	0.00
Spiked Amount 50.000			Recovery = 74.32%		
55) 2-Fluorobiphenyl	7.633	172	329955	38.75 ng	-0.02
Spiked Amount 50.000			Recovery = 77.50%		
80) 2,4,6-Tribromophenol	8.952	330	96344	91.97 ng	-0.02
Spiked Amount 100.000			Recovery = 91.97%		
94) Terphenyl-d14	11.469	244	389760	51.31 ng	0.00
Spiked Amount 50.000			Recovery = 102.62%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

M

TIC: 7M94025.D\data.ms

Quant QT Reviewed

SampleID : AD05999-001
Data File: 7M94025.D
Acq On : 08/22/18 14:49

Operator : AH/JB
Sam Mult : 1 Vial# : 15
Misc : S,BNA

Qt Meth : 7M_0821.M
Qt On : 08/22/18 15:13
Qt Upd On: 08/21/18 12:40

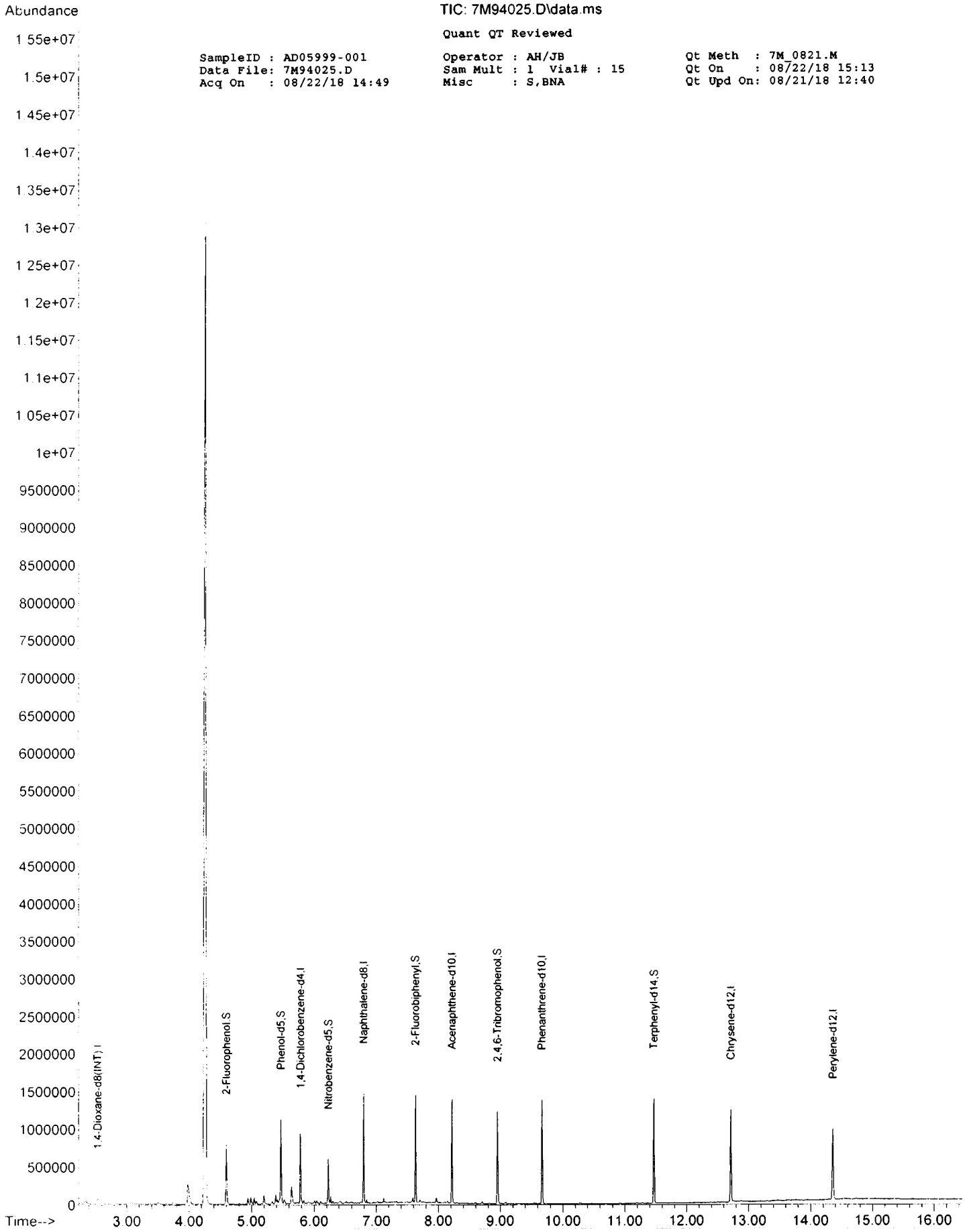

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB69957
Client Id:
Data File: 7M94015.D
Analysis Date: 08/22/18 10:55
Date Rec/Extracted: NA-08/22/18
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-95-4	2,4,5-Trichlorophenol	0.033	U	207-08-9	Benzo[k]fluoranthene	0.033	U
120-83-2	2,4-Dichlorophenol	0.0083	U	65-85-0	Benzoic Acid	0.17	U
51-28-5	2,4-Dinitrophenol	0.10	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	85-68-7	Butylbenzylphthalate	0.033	U
95-57-8	2-Chlorophenol	0.033	U	218-01-9	Chrysene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
95-48-7	2-Methylphenol	0.0083	U	132-64-9	Dibenzofuran	0.0083	U
88-74-4	2-Nitroaniline	0.033	U	84-66-2	Diethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	131-11-3	Dimethylphthalate	0.033	U
106-44-5	3&4-Methylphenol	0.0083	U	84-74-2	Di-n-butylphthalate	0.0083	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	117-84-0	Di-n-octylphthalate	0.033	U
99-09-2	3-Nitroaniline	0.033	U	206-44-0	Fluoranthene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	86-73-7	Fluorene	0.033	U
106-47-8	4-Chloroaniline	0.0083	U	118-74-1	Hexachlorobenzene	0.033	U
100-02-7	4-Nitrophenol	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
83-32-9	Acenaphthene	0.033	U	78-59-1	Isophorone	0.033	U
208-96-8	Acenaphthylene	0.033	U	91-20-3	Naphthalene	0.0083	U
62-53-3	Aniline	0.0083	U	98-95-3	Nitrobenzene	0.033	U
120-12-7	Anthracene	0.033	U	87-86-5	Pentachlorophenol	0.071	U
56 55-3	Benzo[a]anthracene	0.033	U	85-01-8	Phenanthrene	0.033	U
50-32-8	Benzo[a]pyrene	0.033	U	108-95-2	Phenol	0.033	U
205-99-2	Benzo[b]fluoranthene	0.033	U	129-00-0	Pyrene	0.033	U
191-24-2	Benzo[g,h,i]perylene	0.033	U				

Worksheet # 477023 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

8081617 0081

SampleID : SMB69957 Operator : AH/JB Qt Meth : 7M_0821.M
Data File: 7M94015.D Sam Mult : 1 Vial# : 5 Qt On : 08/22/18 11:30
Acq On : 08/22/18 10:55 Misc : S,BNA Qt Upd On: 08/21/18 12:40

Data Path : G:\GcMsData\2018\GCMS_7\Data\08-22-18\
Qt Path : G:\GCMSDATA\2018\GCMS_7\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
7) 1,4-Dioxane-d8(INT)	2.542	96	57345	40.00 ng	-0.03
21) 1,4-Dichlorobenzene-d4	5.785	152	105379	40.00 ng	0.00
31) Naphthalene-d8	6.794	136	373037	40.00 ng	-0.01
50) Acenaphthene-d10	8.221	164	231378	40.00 ng	-0.02
77) Phenanthrene-d10	9.668	188	401366	40.00 ng	-0.02
91) Chrysene-d12	12.713	240	386758	40.00 ng	-0.02
103) Perylene-d12	14.364	264	323054	40.00 ng	-0.05
System Monitoring Compounds					
11) 2-Fluorophenol	4.599	112	267754	81.20 ng	0.00
Spiked Amount 100.000			Recovery = 81.20%		
16) Phenol-d5	5.475	99	416655	84.25 ng	0.00
Spiked Amount 100.000			Recovery = 84.25%		
32) Nitrobenzene-d5	6.228	128	71770	58.24 ng	0.00
Spiked Amount 50.000			Recovery = 116.48%		
55) 2-Fluorobiphenyl	7.633	172	370094	51.37 ng	-0.02
Spiked Amount 50.000			Recovery = 102.74%		
80) 2,4,6-Tribromophenol	8.952	330	87556	97.31 ng	-0.02
Spiked Amount 100.000			Recovery = 97.31%		
94) Terphenyl-d14	11.469	244	370211	56.45 ng	0.00
Spiked Amount 50.000			Recovery = 112.90%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

TIC: 7M94015.D\data.ms

Quant QT Reviewed

SampleID : SMB69957
Data File: 7M94015.D
Acq On : 08/22/18 10:55

Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : S,BNA

Qt Meth : 7M_0821.M
Qt On : 08/22/18 11:30
Qt Upd On: 08/21/18 12:40

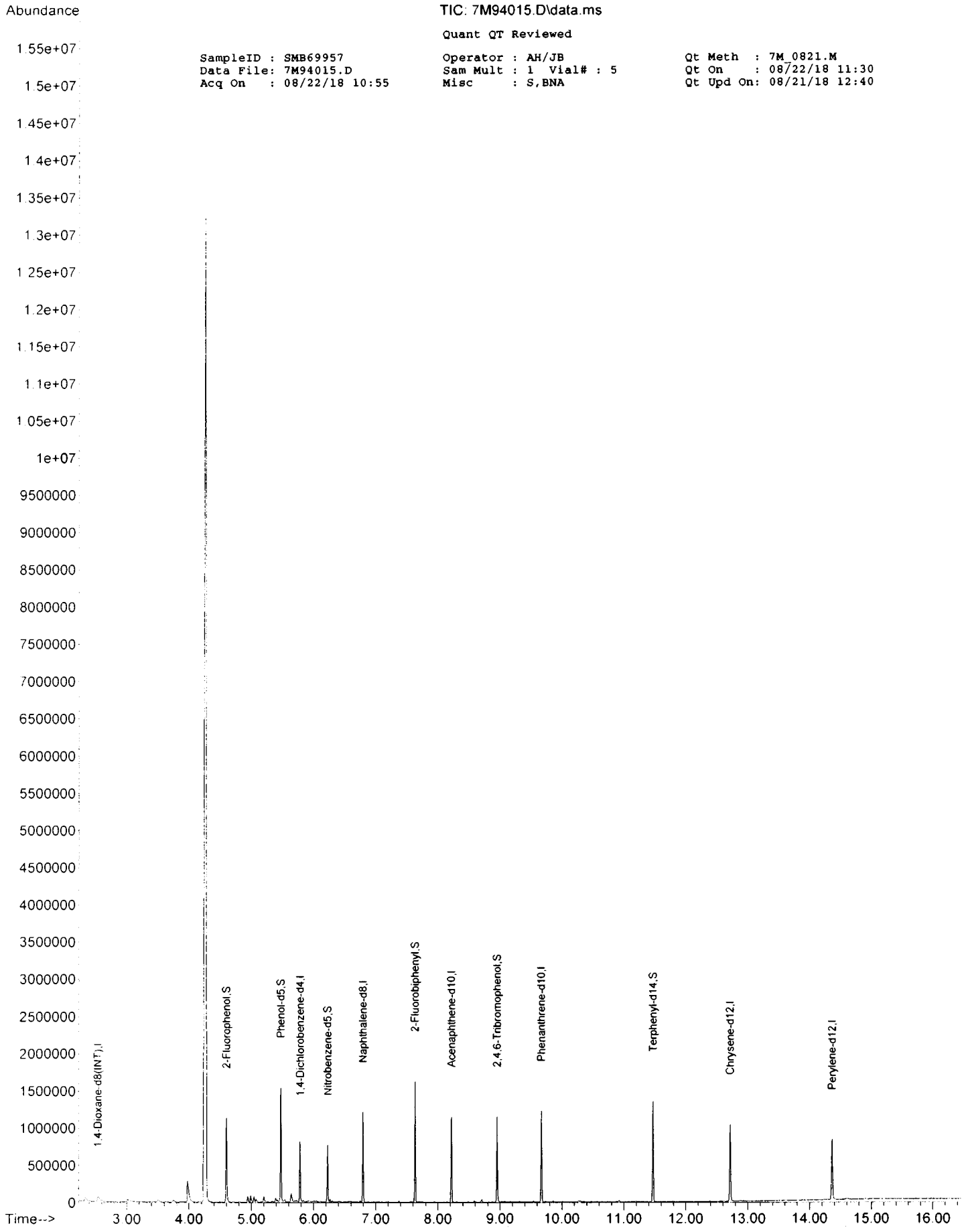

FORM2

Surrogate Recovery

Method: EPA 8270D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
7M94015.D	SMB69957	S	08/22/18 10:55	1		81	84	116	103	97	113
7M94025.D	AD05999-001	S	08/22/18 14:49	1		47	56	74	77	92	103
7M94014.D	SMB69957(MS)	S	08/22/18 10:32	1		76	85	114	108	110	122
7M94028.D	AD05999-001(MS)	S	08/22/18 16:11	1		72	77	109	100	104	111
7M94029.D	AD05999-001(MSD)	S	08/22/18 16:34	1		68	71	101	88	95	101

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	43-128
S2=Phenol-d5	100	49-129
S3=Nitrobenzene-d5	50	52-129
S4=2-Fluorobiphenyl	50	58-125
S5=2,4,6-Tribromophenol	100	54-145
S6=Terphenyl-d14	50	58-148

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69957

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M94014.D	SMB69957(MS)	8/22/2018 10:32:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	21.2454	0	50	42	1	150
N-Nitrosodimethylamine	1	34.2517	0	50	69	50	130
Benzaldehyde	1	47.0609	0	50	94	20	220
Aniline	1	31.6574	0	50	63	20	150
Pentachloroethane	1	41.0771	0	50	82	50	130
bis(2-Chloroethyl)ether	1	38.7689	0	50	78	50	130
Phenol	1	70.6897	0	100	71	20	150
2-Chlorophenol	1	69.6614	0	100	70	50	130
N-Decane	1	28.9335	0	50	58	20	130
1,3-Dichlorobenzene	1	31.3299	0	50	63	60	130
1,4-Dichlorobenzene	1	32.3883	0	50	65	60	130
1,2-Dichlorobenzene	1	33.5977	0	50	67	50	130
Benzyl alcohol	1	45.0837	0	50	90	20	130
bis(2-chloroisopropyl)ether	1	32.4313	0	50	65	40	130
2-Methylphenol	1	79.0156	0	100	79	50	130
Acetophenone	1	46.7098	0	50	93	50	130
Hexachloroethane	1	31.7125	0	50	63	50	130
N-Nitroso-di-n-propylamine	1	36.0998	0	50	72	40	130
3&4-Methylphenol	1	78.852	0	100	79	70	130
Nitrobenzene	1	38.5164	0	50	77	70	130
Isophorone	1	38.6568	0	50	77	60	130
2-Nitrophenol	1	72.4284	0	100	72	70	130
2,4-Dimethylphenol	1	79.0657	0	100	79	50	130
Benzoic Acid	1	95.0861	0	100	95	20	130
bis(2-Chloroethoxy)methane	1	38.2221	0	50	76	60	130
2,4-Dichlorophenol	1	82.7642	0	100	83	70	130
1,2,4-Trichlorobenzene	1	35.4176	0	50	71	50	130
Naphthalene	1	39.54	0	50	79	50	130
4-Chloroaniline	1	42.7442	0	50	85	10	150
Hexachlorobutadiene	1	36.0648	0	50	72	60	130
Caprolactam	1	67.6684	0	50	135*	50	130
4-Chloro-3-methylphenol	1	85.6091	0	100	86	50	130
2-Methylnaphthalene	1	38.7378	0	50	77	70	130
1-Methylnaphthalene	1	45.2816	0	50	91	70	130
1,1'-Biphenyl	1	42.5774	0	50	85	60	130
1,2,4,5-Tetrachlorobenzene	1	50.1856	0	50	100	70	130
Hexachlorocyclopentadiene	1	37.5507	0	50	75	20	160
2,4,6-Trichlorophenol	1	86.2336	0	100	86	70	130
2,4,5-Trichlorophenol	1	90.7465	0	100	91	70	130
2-Chloronaphthalene	1	40.4997	0	50	81	70	130
1,4-Dimethylnaphthalene	1	46.6122	0	50	93	70	130
Diphenyl Ether	1	52.8635	0	50	106	70	130
2-Nitroaniline	1	50.8369	0	50	102	50	130
Coumarin	1	56.5707	0	50	113	70	130
Acenaphthylene	1	47.421	0	50	95	70	130
Dimethylphthalate	1	44.7847	0	50	90	70	130
2,6-Dinitrotoluene	1	46.9411	0	50	94	70	130
Acenaphthene	1	43.8335	0	50	88	50	130
3-Nitroaniline	1	46.1477	0	50	92	10	130
2,4-Dinitrophenol	1	78.1221	0	100	78	20	150
Dibenzofuran	1	46.1347	0	50	92	70	130
2,4-Dinitrotoluene	1	44.5784	0	50	89	40	130
4-Nitrophenol	1	94.2889	0	100	94	20	150
2,3,4,6-Tetrachlorophenol	1	81.0915	0	100	81	70	130
Fluorene	1	45.0221	0	50	90	50	130
4-Chlorophenyl-phenylether	1	42.9789	0	50	86	70	130
Diethylphthalate	1	47.2901	0	50	95	70	130
4-Nitroaniline	1	46.2515	0	50	93	50	130
Atrazine	1	73.8561	0	50	148*	50	130
4,6-Dinitro-2-methylphenol	1	85.5327	0	100	86	70	130
n-Nitrosodiphenylamine	1	36.6341	0	50	73	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69957

1,2-Diphenylhydrazine	1	52.3681	0	50	105	70	130
4-Bromophenyl-phenylether	1	44.2035	0	50	88	70	130
Hexachlorobenzene	1	42.1419	0	50	84	70	130
N-Octadecane	1	60.6527	0	50	121	70	130
Pentachlorophenol	1	82.4746	0	100	82	40	130
Phenanthrene	1	43.4203	0	50	87	70	130
Anthracene	1	41.0753	0	50	82	70	130
Carbazole	1	54.0664	0	50	108	70	130
Di-n-butylphthalate	1	44.8514	0	50	90	70	130
Fluoranthene	1	42.9295	0	50	86	70	130
Pyrene	1	45.5499	0	50	91	50	130
Benzidine	1	3.5569	0	50	7.1	1	130
Butylbenzylphthalate	1	46.0666	0	50	92	50	130
3,3'-Dichlorobenzidine	1	42.3029	0	50	85	10	130
Benzo[a]anthracene	1	45.439	0	50	91	70	130
Chrysene	1	45.3597	0	50	91	60	130
bis(2-Ethylhexyl)phthalate	1	48.108	0	50	96	70	130
Di-n-octylphthalate	1	47.5376	0	50	95	70	130
Benzo[b]fluoranthene	1	45.9195	0	50	92	70	130
Benzo[k]fluoranthene	1	47.2157	0	50	94	70	130
Benzo[a]pyrene	1	40.479	0	50	81	70	130
Indeno[1,2,3-cd]pyrene	1	46.9658	0	50	94	70	130
Dibenzo[a,h]anthracene	1	51.3137	0	50	103	60	130
Benzo[g,h,i]perylene	1	44.1412	0	50	88	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69957

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M94028.D	AD05999-001(MS)	8/22/2018 4:11:00 PM
Non Spike(If applicable):	7M94025.D	AD05999-001	8/22/2018 2:49:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	25.0598	0	50	50	1	150
N-Nitrosodimethylamine	1	31.3986	0	50	63	50	130
Benzaldehyde	1	50.5529	0	50	101	20	220
Aniline	1	30.3855	0	50	61	20	150
Pentachloroethane	1	42.4324	0	50	85	50	130
bis(2-Chloroethyl)ether	1	35.5147	0	50	71	50	130
Phenol	1	72.0502	0	100	72	20	150
2-Chlorophenol	1	70.829	0	100	71	50	130
N-Decane	1	53.2942	2.6886	50	101	20	130
1,3-Dichlorobenzene	1	29.6744	0	50	59*	60	130
1,4-Dichlorobenzene	1	30.0185	0	50	60	60	130
1,2-Dichlorobenzene	1	30.9249	0	50	62	50	130
Benzyl alcohol	1	36.1132	0	50	72	20	130
bis(2-chloroisopropyl)ether	1	29.8533	0	50	60	40	130
2-Methylphenol	1	79.1807	0	100	79	50	130
Acetophenone	1	49.1759	0	50	98	50	130
Hexachloroethane	1	30.3672	0	50	61	50	130
N-Nitroso-di-n-propylamine	1	32.5745	0	50	65	40	130
3&4-Methylphenol	1	75.2827	0	100	75	70	130
Nitrobenzene	1	35.2994	0	50	71	70	130
Isophorone	1	34.0776	0	50	68	60	130
2-Nitrophenol	1	72.7951	0	100	73	70	130
2,4-Dimethylphenol	1	72.9597	0	100	73	50	130
Benzoic Acid	1	45.4478	0	100	45	20	130
bis(2-Chloroethoxy)methane	1	33.4948	0	50	67	60	130
2,4-Dichlorophenol	1	81.0702	0	100	81	70	130
1,2,4-Trichlorobenzene	1	32.4013	0	50	65	50	130
Naphthalene	1	35.758	0	50	72	50	130
4-Chloroaniline	1	34.1328	0	50	68	10	150
Hexachlorobutadiene	1	31.1757	0	50	62	60	130
Caprolactam	1	43.5279	0	50	87	50	130
4-Chloro-3-methylphenol	1	79.2588	0	100	79	50	130
2-Methylnaphthalene	1	33.6018	0	50	67*	70	130
1-Methylnaphthalene	1	48.1788	0	50	96	70	130
1,1'-Biphenyl	1	43.341	0	50	87	60	130
1,2,4,5-Tetrachlorobenzene	1	53.0175	0	50	106	70	130
Hexachlorocyclopentadiene	1	35.1494	0	50	70	20	160
2,4,6-Trichlorophenol	1	81.1876	0	100	81	70	130
2,4,5-Trichlorophenol	1	84.0727	0	100	84	70	130
2-Chloronaphthalene	1	34.5984	0	50	69*	70	130
1,4-Dimethylnaphthalene	1	45.5338	0	50	91	70	130
Diphenyl Ether	1	54.0962	0	50	108	70	130
2-Nitroaniline	1	44.3286	0	50	89	50	130
Coumarin	1	49.1538	0	50	98	70	130
Acenaphthylene	1	40.4365	0	50	81	70	130
Dimethylphthalate	1	37.5409	0	50	75	70	130
2,6-Dinitrotoluene	1	42.0818	0	50	84	70	130
Acenaphthene	1	37.8838	0	50	76	50	130
3-Nitroaniline	1	37.6486	0	50	75	70	130
2,4-Dinitrophenol	1	73.8039	0	100	74	20	150
Dibenzofuran	1	39.4782	0	50	79	70	130
2,4-Dinitrotoluene	1	38.8443	0	50	78	40	130
4-Nitrophenol	1	79.0284	0	100	79	20	150
2,3,4,6-Tetrachlorophenol	1	74.2276	0	100	74	70	130
Fluorene	1	38.6142	0	50	77	50	130
4-Chlorophenyl-phenylether	1	36.8344	0	50	74	70	130
Diethylphthalate	1	39.6709	0	50	79	70	130
4-Nitroaniline	1	38.6262	0	50	77	50	130
Atrazine	1	43.941	0	50	88	50	130
4,6-Dinitro-2-methylphenol	1	80.032	0	100	80	70	130
n-Nitrosodiphenylamine	1	32.1073	0	50	64	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69957

1,2-Diphenylhydrazine	1	43.9518	0	50	88	70	130
4-Bromophenyl-phenylether	1	38.2588	0	50	77	70	130
Hexachlorobenzene	1	38.1743	0	50	76	70	130
N-Octadecane	1	56.0719	0	50	112	70	130
Pentachlorophenol	1	77.501	0	100	78	40	130
Phenanthrene	1	38.5489	0	50	77	70	130
Anthracene	1	37.1572	0	50	74	70	130
Carbazole	1	48.2504	0	50	97	70	130
Di-n-butylphthalate	1	31.1855	0	50	62*	70	130
Fluoranthene	1	39.1629	0	50	78	70	130
Pyrene	1	41.7262	0	50	83	50	130
Benzidine	1	0	0	50	0*	1	130
Butylbenzylphthalate	1	9.3099	0	50	19*	50	130
3,3'-Dichlorobenzidine	1	21.772	0	50	44	10	130
Benzo[a]anthracene	1	40.4643	0	50	81	70	130
Chrysene	1	39.8855	0	50	80	60	130
bis(2-Ethylhexyl)phthalate	1	14.8421	0	50	30*	70	130
Di-n-octylphthalate	1	15.1639	0	50	30*	70	130
Benzo[b]fluoranthene	1	46.0515	0	50	92	70	130
Benzo[k]fluoranthene	1	45.7205	0	50	91	70	130
Benzo[a]pyrene	1	38.8803	0	50	78	70	130
Indeno[1,2,3-cd]pyrene	1	44.6015	0	50	89	70	130
Dibenzo[a,h]anthracene	1	48.7208	0	50	97	60	130
Benzo[g,h,i]perylene	1	41.595	0	50	83	70	130

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Form3
Recovery Data Laboratory Limits
QC Batch: SMB69957

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M94029.D	AD05999-001(MSD)	8/22/2018 4:34:00 PM
Non Spike(If applicable):	7M94025.D	AD05999-001	8/22/2018 2:49:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	29.0903	0	50	58	1	150
N-Nitrosodimethylamine	1	31.4179	0	50	63	50	130
Benzaldehyde	1	51.5708	0	50	103	20	220
Aniline	1	31.0537	0	50	62	20	150
Pentachloroethane	1	44.9995	0	50	90	50	130
bis(2-Chloroethyl)ether	1	35.1093	0	50	70	50	130
Phenol	1	71.2418	0	100	71	20	150
2-Chlorophenol	1	69.5152	0	100	70	50	130
N-Decane	1	38.6852	2.6886	50	72	20	130
1,3-Dichlorobenzene	1	29.4936	0	50	59*	60	130
1,4-Dichlorobenzene	1	29.896	0	50	60	60	130
1,2-Dichlorobenzene	1	30.3842	0	50	61	50	130
Benzyl alcohol	1	39.1779	0	50	78	20	130
bis(2-chloroisopropyl)ether	1	29.5448	0	50	59	40	130
2-Methylphenol	1	76.5696	0	100	77	50	130
Acetophenone	1	50.4715	0	50	101	50	130
Hexachloroethane	1	30.8155	0	50	62	50	130
N-Nitroso-di-n-propylamine	1	31.3399	0	50	63	40	130
3&4-Methylphenol	1	75.9282	0	100	76	70	130
Nitrobenzene	1	34.5744	0	50	69*	70	130
Isophorone	1	33.5801	0	50	67	60	130
2-Nitrophenol	1	72.4618	0	100	72	70	130
2,4-Dimethylphenol	1	77.1923	0	100	77	50	130
Benzoic Acid	1	60.3121	0	100	60	20	130
bis(2-Chloroethoxy)methane	1	32.1013	0	50	64	60	130
2,4-Dichlorophenol	1	80.6347	0	100	81	70	130
1,2,4-Trichlorobenzene	1	30.9084	0	50	62	50	130
Naphthalene	1	34.436	0	50	69	50	130
4-Chloroaniline	1	39.7019	0	50	79	10	150
Hexachlorobutadiene	1	31.7264	0	50	63	60	130
Caprolactam	1	48.1358	0	50	96	50	130
4-Chloro-3-methylphenol	1	81.4311	0	100	81	50	130
2-Methylnaphthalene	1	33.1456	0	50	66*	70	130
1-Methylnaphthalene	1	45.5825	0	50	91	70	130
1,1'-Biphenyl	1	40.9269	0	50	82	60	130
1,2,4,5-Tetrachlorobenzene	1	48.2113	0	50	96	70	130
Hexachlorocyclopentadiene	1	28.4978	0	50	57	20	160
2,4,6-Trichlorophenol	1	85.6167	0	100	86	70	130
2,4,5-Trichlorophenol	1	79.2213	0	100	79	70	130
2-Chloronaphthalene	1	34.1194	0	50	68*	70	130
1,4-Dimethylnaphthalene	1	41.5145	0	50	83	70	130
Diphenyl Ether	1	47.9749	0	50	96	70	130
2-Nitroaniline	1	43.0422	0	50	86	50	130
Coumarin	1	43.5524	0	50	87	70	130
Acenaphthylene	1	40.0659	0	50	80	70	130
Dimethylphthalate	1	36.1938	0	50	72	70	130
2,6-Dinitrotoluene	1	38.9473	0	50	78	70	130
Acenaphthene	1	37.219	0	50	74	50	130
3-Nitroaniline	1	39.5302	0	50	79	70	130
2,4-Dinitrophenol	1	67.1887	0	100	67	20	150
Dibenzofuran	1	38.4107	0	50	77	70	130
2,4-Dinitrotoluene	1	37.6498	0	50	75	40	130
4-Nitrophenol	1	80.6756	0	100	81	20	150
2,3,4,6-Tetrachlorophenol	1	74.7969	0	100	75	70	130
Fluorene	1	37.5135	0	50	75	50	130
4-Chlorophenyl-phenylether	1	36.5712	0	50	73	70	130
Diethylphthalate	1	36.912	0	50	74	70	130
4-Nitroaniline	1	38.4016	0	50	77	50	130
Atrazine	1	44.6999	0	50	89	50	130
4,6-Dinitro-2-methylphenol	1	80.194	0	100	80	70	130
n-Nitrosodiphenylamine	1	31.8334	0	50	64	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69957

1,2-Diphenylhydrazine	1	42.511	0	50	85	70	130
4-Bromophenyl-phenylether	1	37.4804	0	50	75	70	130
Hexachlorobenzene	1	38.491	0	50	77	70	130
N-Octadecane	1	52.9096	0	50	106	70	130
Pentachlorophenol	1	76.4207	0	100	76	40	130
Phenanthrene	1	38.7088	0	50	77	70	130
Anthracene	1	36.5573	0	50	73	70	130
Carbazole	1	46.7591	0	50	94	70	130
Di-n-butylphthalate	1	32.4678	0	50	65*	70	130
Fluoranthene	1	38.2796	0	50	77	70	130
Pyrene	1	42.2225	0	50	84	50	130
Benzidine	1	2.1458	0	50	4.3	1	130
Butylbenzylphthalate	1	14.1196	0	50	28*	50	130
3,3'-Dichlorobenzidine	1	30.9108	0	50	62	10	130
Benzo[a]anthracene	1	39.85	0	50	80	70	130
Chrysene	1	39.9455	0	50	80	60	130
bis(2-Ethylhexyl)phthalate	1	19.0992	0	50	38*	70	130
Di-n-octylphthalate	1	18.1223	0	50	36*	70	130
Benzo[b]fluoranthene	1	40.9658	0	50	82	70	130
Benzo[k]fluoranthene	1	41.4935	0	50	83	70	130
Benzo[a]pyrene	1	35.8861	0	50	72	70	130
Indeno[1,2,3-cd]pyrene	1	40.4646	0	50	81	70	130
Dibenzo[a,h]anthracene	1	44.9458	0	50	90	60	130
Benzo[g,h,i]perylene	1	38.6811	0	50	77	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: SMB69957

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M94029.D	AD05999-001(MSD)	8/22/2018 4:34:00 PM
Duplicate(If applicable):	7M94028.D	AD05999-001(MS)	8/22/2018 4:11:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Pyridine	1	29.0903	25.0598	15	30
N-Nitrosodimethylamine	1	31.4179	31.3986	0.06	30
Benzaldehyde	1	51.5708	50.5529	2	30
Aniline	1	31.0537	30.3855	2.2	30
Pentachloroethane	1	44.9995	42.4324	5.9	30
bis(2-Chloroethyl)ether	1	35.1093	35.5147	1.1	30
Phenol	1	71.2418	72.0502	1.1	40
2-Chlorophenol	1	69.5152	70.829	1.9	40
N-Decane	1	38.6852	53.2942	32*	30
1,3-Dichlorobenzene	1	29.4936	29.6744	0.61	30
1,4-Dichlorobenzene	1	29.896	30.0185	0.41	40
1,2-Dichlorobenzene	1	30.3842	30.9249	1.8	30
Benzyl alcohol	1	39.1779	36.1132	8.1	30
bis(2-chloroisopropyl)ether	1	29.5448	29.8533	1	30
2-Methylphenol	1	76.5696	79.1807	3.4	40
Acetophenone	1	50.4715	49.1759	2.6	30
Hexachloroethane	1	30.8155	30.3672	1.5	30
N-Nitroso-di-n-propylamine	1	31.3399	32.5745	3.9	40
3&4-Methylphenol	1	75.9282	75.2827	0.85	30
Nitrobenzene	1	34.5744	35.2994	2.1	30
Isophorone	1	33.5801	34.0776	1.5	30
2-Nitrophenol	1	72.4618	72.7951	0.46	30
2,4-Dimethylphenol	1	77.1923	72.9597	5.6	40
Benzoic Acid	1	60.3121	45.4478	28	30
bis(2-Chloroethoxy)methane	1	32.1013	33.4948	4.2	30
2,4-Dichlorophenol	1	80.6347	81.0702	0.54	30
1,2,4-Trichlorobenzene	1	30.9084	32.4013	4.7	40
Naphthalene	1	34.436	35.758	3.8	40
4-Chloroaniline	1	39.7019	34.1328	15	30
Hexachlorobutadiene	1	31.7264	31.1757	1.8	30
Caprolactam	1	48.1358	43.5279	10	30
4-Chloro-3-methylphenol	1	81.4311	79.2588	2.7	40
2-Methylnaphthalene	1	33.1456	33.6018	1.4	30
1-Methylnaphthalene	1	45.5825	48.1788	5.5	30
1,1'-Biphenyl	1	40.9269	43.341	5.7	30
1,2,4,5-Tetrachlorobenzene	1	48.2113	53.0175	9.5	30
Hexachlorocyclopentadiene	1	28.4978	35.1494	21	30
2,4,6-Trichlorophenol	1	85.6167	81.1876	5.3	30
2,4,5-Trichlorophenol	1	79.2213	84.0727	5.9	30
2-Chloronaphthalene	1	34.1194	34.5984	1.4	30
1,4-Dimethylnaphthalene	1	41.5145	45.5338	9.2	30
Diphenyl Ether	1	47.9749	54.0962	12	30
2-Nitroaniline	1	43.0422	44.3286	2.9	30
Coumarin	1	43.5524	49.1538	12	30
Acenaphthylene	1	40.0659	40.4365	0.92	30
Dimethylphthalate	1	36.1938	37.5409	3.7	30
2,6-Dinitrotoluene	1	38.9473	42.0818	7.7	30
Acenaphthene	1	37.219	37.8838	1.8	40
3-Nitroaniline	1	39.5302	37.6486	4.9	30
2,4-Dinitrophenol	1	67.1887	73.8039	9.4	30
Dibenzofuran	1	38.4107	39.4782	2.7	30
2,4-Dinitrotoluene	1	37.6498	38.8443	3.1	40
4-Nitrophenol	1	80.6756	79.0284	2.1	40
2,3,4,6-Tetrachlorophenol	1	74.7969	74.2276	0.76	30
Fluorene	1	37.5135	38.6142	2.9	40
4-Chlorophenyl-phenylether	1	36.5712	36.8344	0.72	30
Diethylphthalate	1	36.912	39.6709	7.2	30
4-Nitroaniline	1	38.4016	38.6262	0.58	30
Atrazine	1	44.6999	43.941	1.7	30
4,6-Dinitro-2-methylphenol	1	80.194	80.032	0.2	30
n-Nitrosodiphenylamine	1	31.8334	32.1073	0.86	30
1,2-Diphenylhydrazine	1	42.511	43.9518	3.3	30
4-Bromophenyl-phenylether	1	37.4804	38.2588	2.1	30

Form3
RPD Data Laboratory Limits
QC Batch: SMB69957

Hexachlorobenzene	1	38.491	38.1743	0.83	30
N-Octadecane	1	52.9096	56.0719	5.8	30
Pentachlorophenol	1	76.4207	77.501	1.4	40
Phenanthrene	1	38.7088	38.5489	0.41	30
Anthracene	1	36.5573	37.1572	1.6	30
Carbazole	1	46.7591	48.2504	3.1	30
Di-n-butylphthalate	1	32.4678	31.1855	4	30
Fluoranthene	1	38.2796	39.1629	2.3	30
Pyrene	1	42.2225	41.7262	1.2	40
Benzidine	1	2.1458	0	200 *	30
Butylbenzylphthalate	1	14.1196	9.3099	41 *	40
3,3'-Dichlorobenzidine	1	30.9108	21.772	35 *	30
Benzo[a]anthracene	1	39.85	40.4643	1.5	30
Chrysene	1	39.9455	39.8855	0.15	30
bis(2-Ethylhexyl)phthalate	1	19.0992	14.8421	25	30
Di-n-octylphthalate	1	18.1223	15.1639	18	30
Benzo[b]fluoranthene	1	40.9658	46.0515	12	30
Benzo[k]fluoranthene	1	41.4935	45.7205	9.7	30
Benzo[a]pyrene	1	35.8861	38.8803	8	30
Indeno[1,2,3-cd]pyrene	1	40.4646	44.6015	9.7	30
Dibenzo[a,h]anthracene	1	44.9458	48.7208	8.1	30
Benzo[g,h,i]perylene	1	38.6811	41.595	7.3	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: SMB69957
Blank Data File: 7M94015.D
Matrix: Soil

Blank Analysis Date: 08/22/18 10:55
Blank Extraction Date: 08/22/18
(If Applicable)
Method: EPA 8270D

Sample Number	Data File	Analysis Date
AD05999-001	7M94025.D	08/22/18 14:49
AD05999-001(MSD	7M94029.D	08/22/18 16:34
AD05999-001(MS)	7M94028.D	08/22/18 16:11
SMB69957(MS)	7M94014.D	08/22/18 10:32

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7

Data File: 7M93972.D
Analysis Date: 08/21/18 08:24
Method: EPA 8270D

Tune Scan/Time Range: Average of 9.968 to 9.973 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	48.0	93340	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	51.0	99124	PASS
70	69	0.00	2	0.5	502	PASS
127	198	40	60	52.2	101400	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	194400	PASS
199	198	5	9	7.0	13535	PASS
275	198	10	30	23.3	45312	PASS
365	198	1	100	3.2	6162	PASS
441	443	0.01	100	74.7	14992	PASS
442	198	40	100	53.7	104416	PASS
443	442	17	23	19.2	20056	PASS

Data File	Sample Number	Analysis Date:
7M93973.D	CAL BNA@10PPM	08/21/18 08:59
7M93974.D	CAL BNA@2PPM	08/21/18 09:23
7M93975.D	CAL BNA@196PP	08/21/18 09:51
7M93976.D	CAL BNA@160PP	08/21/18 10:14
7M93977.D	CAL BNA@120PP	08/21/18 10:37
7M93978.D	CAL BNA@80PPM	08/21/18 11:02
7M93979.D	CAL BNA@20PPM	08/21/18 11:25
7M93980.D	CAL BNA@0.5PP	08/21/18 11:48
7M93981.D	CAL BNA@50PPM	08/21/18 12:11
7M93982.D	ICV BNA@50PPM	08/21/18 12:43

8081617 0094

Data Path : G:\GcMsData\2018\GCMS_7\Data\08-21-18\
Data File : 7M93972.D
Acq On : 21 Aug 2018 8:24
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2018\GCMS_7\MethodQt\7M_0802.M
Title : @GCMS_7,mg,625,8270
Last Update : Thu Aug 02 12:25:02 2018

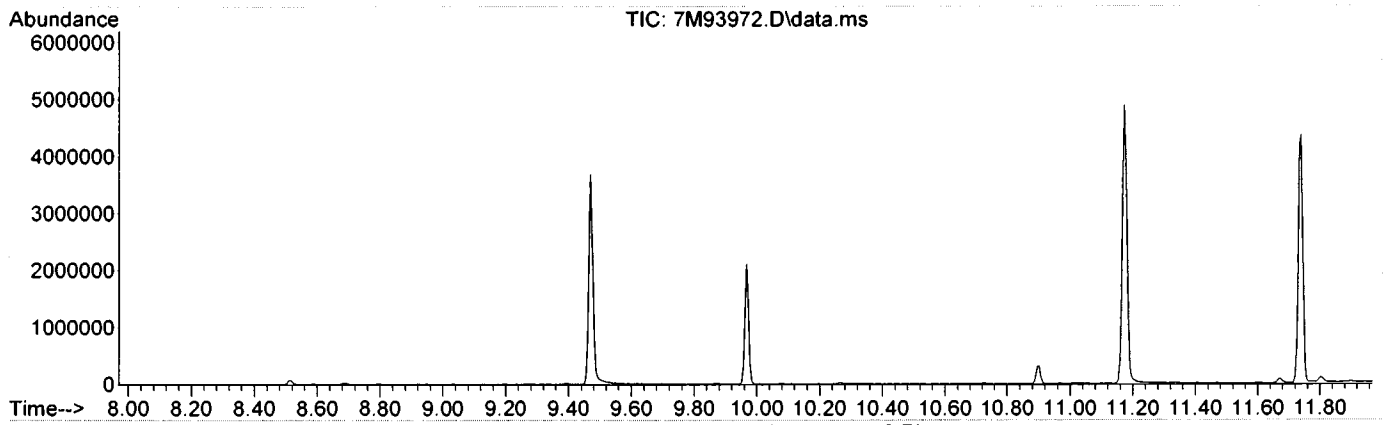

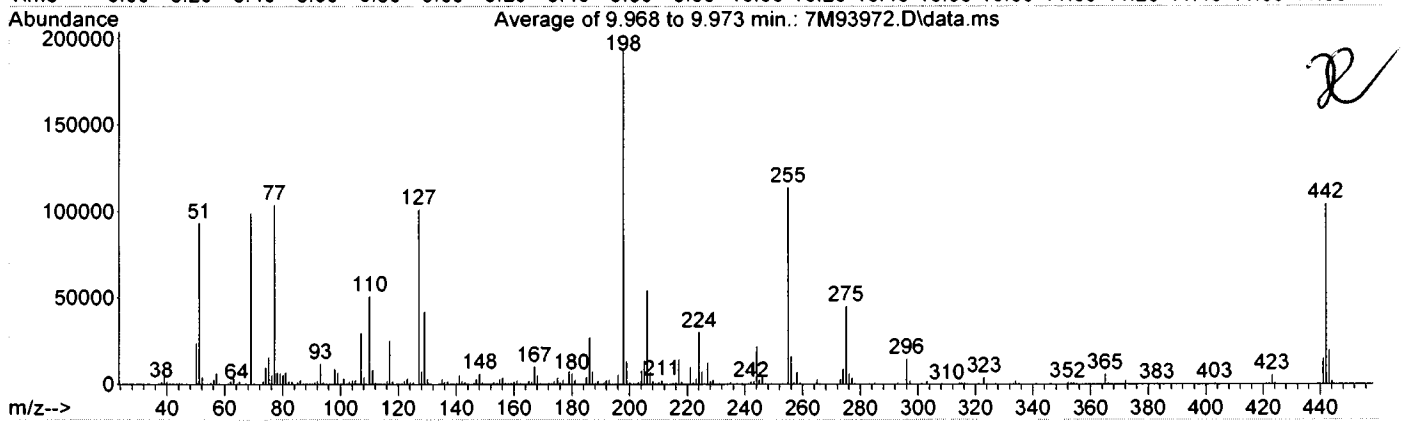

Spectrum Information: Average of 9.968 to 9.973 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.0	93340	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	51.0	99124	PASS
70	69	0.00	2	0.5	502	PASS
127	198	40	60	52.2	101400	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	194400	PASS
199	198	5	9	7.0	13535	PASS
275	198	10	30	23.3	45312	PASS
365	198	1	100	3.2	6162	PASS
441	443	0.01	100	74.7	14992	PASS
442	198	40	100	53.7	104416	PASS
443	442	17	23	19.2	20056	PASS

Form 5

8081617 0095

Tune Name: CAL DFTPP **Data File:** 7M94011.D
Instrument: GCMS 7 **Analysis Date:** 08/22/18 08:58
Method: EPA 8270D

Tune Scan/Time Range: Average of 9.962 to 9.962 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	47.5	79352	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	51.3	85696	PASS
70	69	0.00	2	0.6	478	PASS
127	198	40	60	51.5	85904	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	166912	PASS
199	198	5	9	7.4	12275	PASS
275	198	10	30	25.8	43120	PASS
365	198	1	100	3.5	5828	PASS
441	443	0.01	100	83.8	14166	PASS
442	198	40	100	53.3	88936	PASS
443	442	17	23	19.0	16904	PASS

Data File	Sample Number	Analysis Date:
7M94012.D	CAL BNA@50PPM	08/22/18 09:24
7M94013.D	WMB69959	08/22/18 10:09
7M94014.D	SMB69957(MS)	08/22/18 10:32
7M94015.D	SMB69957	08/22/18 10:55
7M94016.D	OMB69865	08/22/18 11:18
7M94017.D	AD06050-005(10X)	08/22/18 11:42
7M94018.D	AD05930-007(T)	08/22/18 12:05
7M94019.D	AD05930-013(T)	08/22/18 12:29
7M94020.D	AD06057-001	08/22/18 12:52
7M94021.D	EF-SPLP V-285163	08/22/18 13:15
7M94022.D	WMB69963	08/22/18 13:39
7M94023.D	WMB69955	08/22/18 14:02
7M94024.D	AD05980-008(R)	08/22/18 14:25
7M94025.D	AD05999-001	08/22/18 14:49

8081617 0096

Data Path : G:\GcMsData\2018\GCMS_7\Data\08-22-18\
Data File : 7M94011.D
Acq On : 22 Aug 2018 8:58
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2018\GCMS_7\MethodQt\7M_0821.M
Title : @GCMS_7,mg,625,8270
Last Update : Tue Aug 21 12:37:06 2018

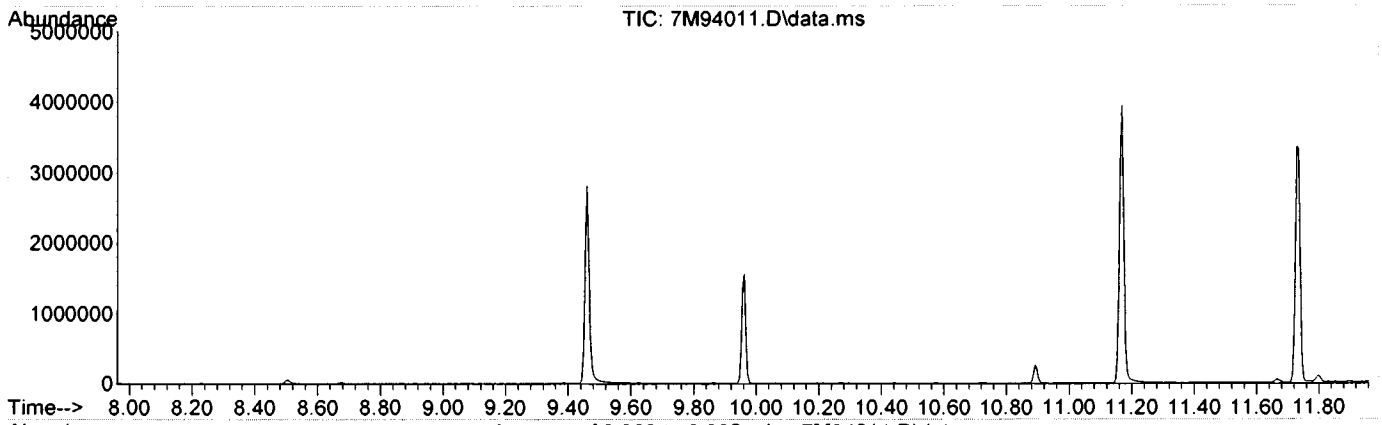

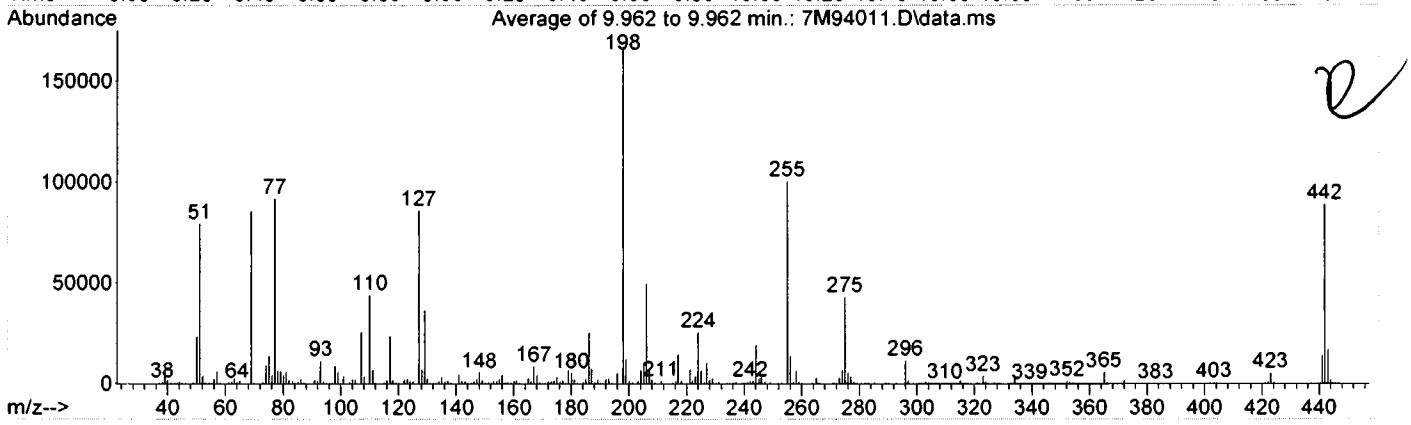

Spectrum Information: Average of 9.962 to 9.962 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.5	79352	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	51.3	85696	PASS
70	69	0.00	2	0.6	478	PASS
127	198	40	60	51.5	85904	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	166912	PASS
199	198	5	9	7.4	12275	PASS
275	198	10	30	25.8	43120	PASS
365	198	1	100	3.5	5828	PASS
441	443	0.01	100	83.8	14166	PASS
442	198	40	100	53.3	88936	PASS
443	442	17	23	19.0	16904	PASS

Form 5

8081617 0097

Tune Name: CAL DFTPP
Instrument: GCMS 7

Data File: 7M94026.D
Analysis Date: 08/22/18 15:14
Method: EPA 8270D

Tune Scan/Time Range: Average of 9.973 to 9.978 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	44.3	55776	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.4	58448	PASS
70	69	0.00	2	0.6	341	PASS
127	198	40	60	47.7	60040	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	125880	PASS
199	198	5	9	7.2	9024	PASS
275	198	10	30	24.2	30508	PASS
365	198	1	100	3.0	3775	PASS
441	443	0.01	100	75.0	11254	PASS
442	198	40	100	58.3	73336	PASS
443	442	17	23	20.5	15005	PASS

Data File	Sample Number	Analysis Date:
7M94027.D	CAL BNA@50PPM	08/22/18 15:45
7M94028.D	AD05999-001(MS)	08/22/18 16:11
7M94029.D	AD05999-001(MSD	08/22/18 16:34
7M94030.D	SMB69958(MS)	08/22/18 16:58
7M94031.D	SMB69958	08/22/18 17:21
7M94032.D	AD06068-004	08/22/18 17:44
7M94033.D	AD06068-004(MS)	08/22/18 18:07
7M94034.D	AD06068-004(MSD	08/22/18 18:31
7M94035.D	AD06068-001	08/22/18 18:54
7M94036.D	AD06068-002	08/22/18 19:17
7M94037.D	AD06068-003	08/22/18 19:40
7M94038.D	AD06042-004	08/22/18 20:03
7M94039.D	AD06042-006	08/22/18 20:27
7M94040.D	AD06042-008	08/22/18 20:50
7M94041.D	AD06042-010	08/22/18 21:13
7M94042.D	AD06027-001	08/22/18 21:36
7M94043.D	AD05985-001	08/22/18 21:59
7M94044.D	AD05985-003	08/22/18 22:22
7M94045.D	AD05985-006	08/22/18 22:45
7M94046.D	AD06026-001	08/22/18 23:09
7M94047.D	AD06026-003	08/22/18 23:32
7M94048.D	AD06065-001	08/22/18 23:55
7M94049.D	AD06069-001	08/23/18 00:18
7M94050.D	AD06053-001	08/23/18 00:41
7M94051.D	AD06053-002	08/23/18 01:04
7M94052.D	AD06053-003	08/23/18 01:27
7M94053.D	AD06073-001	08/23/18 01:50
7M94054.D	AD06073-002	08/23/18 02:13
7M94055.D	AD06073-003	08/23/18 02:36

8081617 0098

Data Path : G:\GcMsData\2018\GCMS_7\Data\08-2218\
Data File : 7M94026.D
Acq On : 22 Aug 2018 15:14
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2018\GCMS_7\MethodQt\7M_0821.M
Title : @GCMS_7,mg,625,8270
Last Update : Tue Aug 21 12:37:06 2018

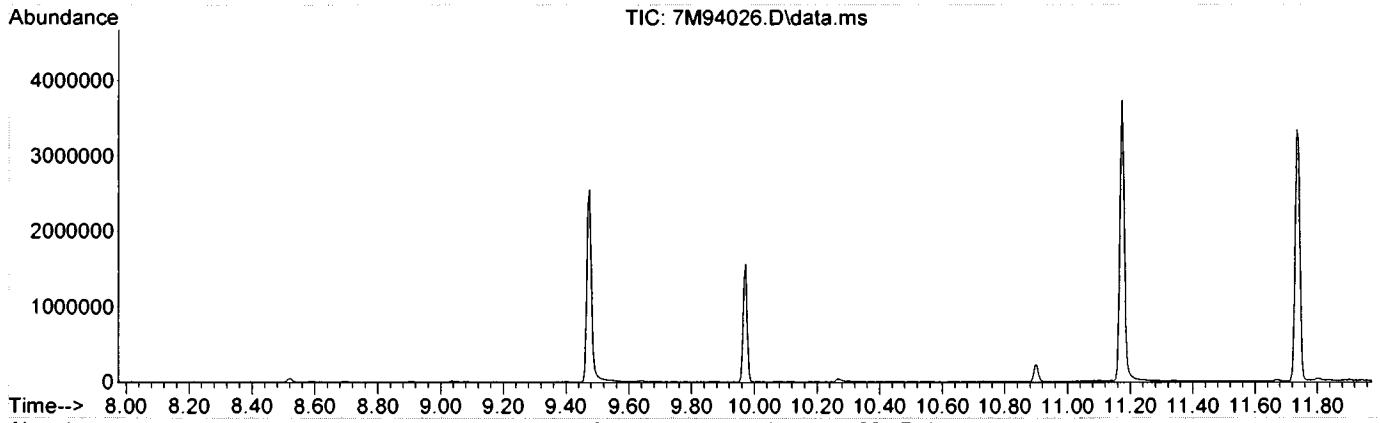

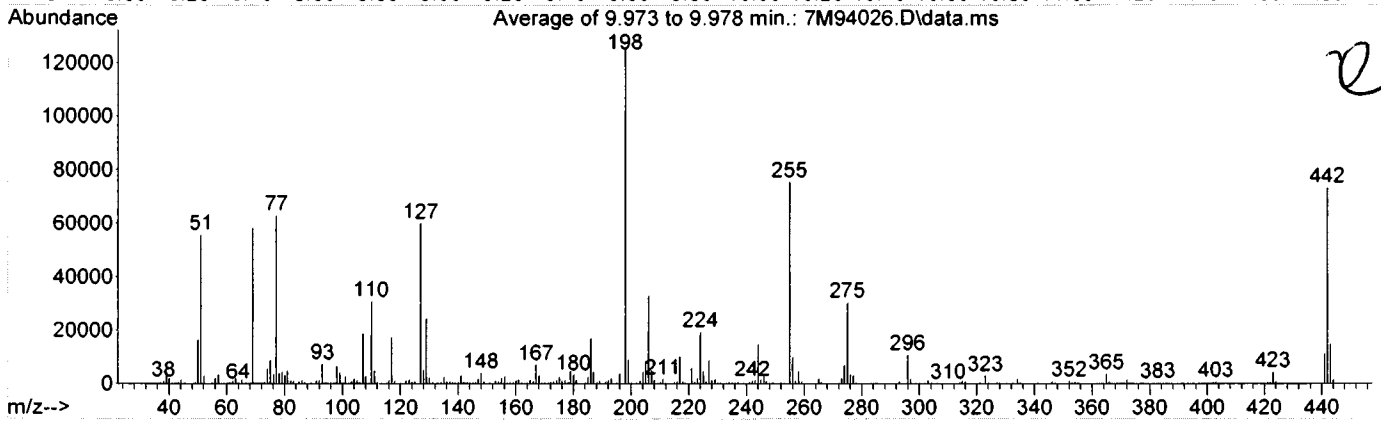

Spectrum Information: Average of 9.973 to 9.978 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.3	55776	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.4	58448	PASS
70	69	0.00	2	0.6	341	PASS
127	198	40	60	47.7	60040	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	125880	PASS
199	198	5	9	7.2	9024	PASS
275	198	10	30	24.2	30508	PASS
365	198	1	100	3.0	3775	PASS
441	443	0.01	100	75.0	11254	PASS
442	198	40	100	58.3	73336	PASS
443	442	17	23	20.5	15005	PASS

8081617 0099

Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M93981.D	CAL BNA@50PPM	08/21/18 12:11	2	7M93974.D	CAL BNA@2PPM	08/21/18 09:23
3	7M93973.D	CAL BNA@10PPM	08/21/18 08:59	4	7M93979.D	CAL BNA@20PPM	08/21/18 11:25
5	7M93978.D	CAL BNA@80PPM	08/21/18 11:02	6	7M93977.D	CAL BNA@120PPM	08/21/18 10:37
7	7M93976.D	CAL BNA@160PPM	08/21/18 10:14	8	7M93975.D	CAL BNA@196PPM	08/21/18 09:51
9	7M93980.D	CAL BNA@0.5PPM	08/21/18 11:48				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Qua	0.9857	0.9851	0.9844	1.0725	1.0114	0.9614	0.9868	1.0591	0.6411	0.965	2.60	0.997	0.998	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	3.0795	5.0985	3.0419	3.0060	3.1337	2.9826	3.1339	3.3246	-----	3.35	3.08	0.996	0.999	21		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.8036	2.0621	1.5498	1.8049	1.8725	1.8160	1.8680	2.0124	-----	1.85	2.98	0.996	0.999	8.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.2023	2.6011	2.0413	2.2571	2.2715	2.2380	2.3055	2.4846	-----	2.30	4.59	0.996	0.999	7.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Qua	1.8978	2.3813	2.1154	2.3677	1.6903	1.4775	1.3626	1.4784	-----	1.85	5.41	0.989	0.990	22	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.9156	3.4303	2.9097	4.1001	3.9484	3.8692	4.0580	3.6763	4.1615	3.79	5.50	0.996	0.997	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Qua	0.8530	1.1736	0.7626	0.8665	0.8421	0.8265	0.8683	0.9170	-----	0.889	5.54	0.997	0.999	14	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Qua	2.6601	3.4757	2.4217	2.7948	2.6613	2.5814	2.7101	2.9393	3.8174	2.90	5.56	0.995	0.998	16	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	3.3704	3.8873	3.0453	3.3495	3.4453	3.3539	3.4560	3.6896	-----	3.45	5.47	0.997	0.999	7.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.9366	4.2731	3.4067	3.8600	3.8551	3.8163	3.9398	4.1273	-----	3.90	5.49	0.998	0.999	6.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.4755	2.8058	2.2423	2.5479	2.4619	2.4128	2.5762	2.9044	-----	2.55	5.61	0.989	0.997	8.4	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Qua	3.2167	4.1698	3.0402	3.3963	3.2333	3.1397	3.1861	3.2658	-----	3.33	5.66	0.999	1.00	11	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.7422	3.2467	2.4429	2.7723	2.7525	2.7136	2.8069	3.0562	-----	2.82	5.74	0.995	0.999	8.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.5846	1.8145	1.4593	1.6079	1.5851	1.5545	1.5871	1.7764	-----	1.62	5.80	0.993	0.997	7.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.5028	1.7948	1.4026	1.5184	1.5125	1.4991	1.5008	1.6901	-----	1.55	5.92	0.993	0.997	8.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Qua	0.8216	0.6208	0.6287	0.6856	0.8720	0.8791	0.9096	1.0184	-----	0.805	5.90	0.992	0.999	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	2.5269	3.0040	2.3622	2.6102	2.5094	2.4037	2.3852	2.4516	-----	2.53	6.01	0.999	0.999	8.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Qua	1.4301	1.4871	1.3819	1.4097	1.4947	1.4421	1.4836	1.6638	1.5790	1.49	5.99	0.993	0.997	5.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	2.1161	2.4466	1.8948	2.1164	2.1028	2.1272	2.0340	2.0825	-----	2.12	6.11	0.999	0.999	7.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.6566	0.7926	0.6376	0.6665	0.6642	0.6431	0.6749	0.7285	-----	0.683	6.20	0.995	0.999	7.7	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Qua	1.3284	1.5406	1.3081	1.3591	1.3329	1.2999	1.1622	1.0942	2.3488	1.42	6.11	0.993	0.999	26	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.5101	1.7608	1.4507	1.5591	1.5497	1.5698	1.4573	1.3703	1.7678	1.56	6.12	0.995	0.999	8.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1246	0.1467	0.1263	0.1275	0.1271	0.1251	0.1317	0.1477	-----	0.132	6.23	0.990	0.998	7.2		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.5353	0.6523	0.5208	0.5348	0.5358	0.5234	0.5323	0.5107	-----	0.543	6.25	0.999	1.00	8.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.9074	1.0264	0.8440	0.9129	0.9344	0.9162	0.9193	0.9718	-----	0.929	6.44	0.998	0.999	5.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.2114	0.2219	0.1997	0.2118	0.2220	0.2143	0.2201	0.2406	-----	0.218	6.50	0.995	0.998	5.4	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Qua	0.4468	0.4958	0.4302	0.4526	0.4596	0.4382	0.4546	0.4640	0.5924	0.471	6.53	0.999	1.00	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.3260	-----	0.2605	0.3230	0.3532	0.3550	0.3671	0.3926	-----	0.340	6.60	0.997	0.999	12		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.5204	0.6102	0.4859	0.5249	0.5315	0.5177	0.5289	0.5719	-----	0.536	6.60	0.996	0.999	7.1	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Qua	0.3405	0.3757	0.3109	0.3379	0.3451	0.3364	0.3488	0.3748	0.4636	0.359	6.69	0.997	0.999	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3570	0.4074	0.3409	0.3583	0.3692	0.3656	0.3731	0.4033	-----	0.372	6.76	0.996	0.999	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Qua	1.1784	1.3618	1.0809	1.1564	1.2092	1.1847	1.2392	1.3111	1.7256	1.27	6.82	0.997	0.999	15	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4341	0.3833	0.3367	0.4494	0.4235	0.3694	0.3509	0.3312	0.4313	0.390	6.85	0.988	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.2055	0.2326	0.1944	0.2057	0.2177	0.2121	0.2216	0.2378	-----	0.216	6.92	0.996	0.999	6.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1241	0.1437	0.1138	0.1263	0.1293	0.1263	0.1270	0.1476	-----	0.130	7.13	0.989	0.995	8.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.3803	0.4144	0.3542	0.3702	0.3835	0.3816	0.3904	0.4100	-----	0.386	7.23	0.998	1.00	5.1	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.7772	0.8895	0.7469	0.7925	0.8154	0.8034	0.8305	0.8911	-----	0.818	7.36	0.996	0.999	6.2	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.7582	0.8806	0.6970	0.7517	0.7755	0.7647	0.8105	0.8533	-----	0.786	7.44	0.997	0.999	7.5	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (	1	0	Avg	0.7690	0.8861	0.7228	0.7718	0.7967	0.7841	0.8202	0.8724	-----	0.803	7.36	0.996	0.999	6.8		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.9328	1.0546	0.8799	0.9512	0.9643	0.9493	1.0015	1.0724	-----	0.976	7.73	0.995	0.999	6.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5695	0.6376	0.5008	0.5368	0.5721	0.5629	0.5372	0.6277	-----	0.568	7.50	0.990	0.993	8.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.44
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Form 6
Initial Calibration

Method: EPA 8270D

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M93981.D	CAL BNA@50PPM	08/21/18 12:11	2	7M93974.D	CAL BNA@2PPM	08/21/18 09:23
3	7M93973.D	CAL BNA@10PPM	08/21/18 08:59	4	7M93979.D	CAL BNA@20PPM	08/21/18 11:25
5	7M93978.D	CAL BNA@80PPM	08/21/18 11:02	6	7M93977.D	CAL BNA@120PPM	08/21/18 10:37
7	7M93976.D	CAL BNA@160PPM	08/21/18 10:14	8	7M93975.D	CAL BNA@196PPM	08/21/18 09:51
9	7M93980.D	CAL BNA@0.5PPM	08/21/18 11:48				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.2097	0.0562	0.0921	0.1609	0.2454	0.2640	0.2607	0.3137	-----	0.200	7.49	0.984	0.995	45	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3798	0.3876	0.3558	0.3722	0.3940	0.3882	0.3595	0.4271	-----	0.383	7.58	0.988	0.991	5.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4056	0.4507	0.3800	0.3731	0.4182	0.4059	0.3828	0.4589	-----	0.409	7.62	0.987	0.991	7.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.2627	1.3450	1.1498	1.2349	1.2485	1.2122	1.1325	1.3773	-----	1.25	7.65	0.993	0.994	6.8		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1907	1.3086	1.1227	1.1628	1.1976	1.1755	1.1537	1.3322	-----	1.21	7.76	0.991	0.995	6.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.9366	1.0646	0.8524	0.9187	0.9290	0.9588	0.7265	0.7445	-----	0.891	8.04	0.983	0.993	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.9366	1.0646	0.8524	0.9187	0.9290	0.9588	0.7265	0.7445	-----	0.891	8.04	0.983	0.993	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8266	0.9370	0.7691	0.8037	0.8304	0.8452	0.8064	0.9355	-----	0.844	7.82	0.991	0.995	7.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.5961	0.6806	0.5365	0.5892	0.5764	0.5416	0.4752	0.5542	-----	0.569	7.83	0.988	0.988	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4701	0.5240	0.4473	0.4582	0.4775	0.4676	0.4431	0.4615	-----	0.469	8.02	0.999	0.999	5.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.7661	1.9018	1.6040	1.7146	1.7841	1.8577	1.4423	1.5308	-----	1.70	8.11	0.989	0.994	9.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3914	1.5797	1.3188	1.3863	1.4153	1.3751	1.3316	1.5492	-----	1.42	7.98	0.990	0.994	6.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3359	0.3467	0.3042	0.3144	0.3404	0.3451	0.2708	0.2646	-----	0.315	8.03	0.970	0.992	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2175	1.3950	1.0821	1.1720	1.2200	1.2384	1.1643	1.1530	-----	1.21	8.27	0.998	0.999	7.6	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3332	0.3129	0.2863	0.3169	0.3226	0.3150	0.2785	0.2790	-----	0.306	8.18	0.992	0.998	6.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1764	0.0714	0.1052	0.1404	0.1980	0.2124	0.2045	0.2060	-----	0.164	8.28	0.995	0.997	32	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Qua	1.7023	1.9529	1.5457	1.6482	1.7420	1.6917	1.6387	1.7644	2.6662	1.82	8.42	0.998	0.998	19	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.4385	0.4479	0.3994	0.4242	0.4441	0.4371	0.4155	0.5017	-----	0.439	8.39	0.985	0.991	6.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Avg	0.3724	0.3813	0.3136	0.3608	0.3774	0.3527	0.3188	0.2865	-----	0.345	8.32	0.988	0.998	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3396	0.3563	0.3066	0.3556	0.3600	0.3580	0.3415	0.4100	-----	0.354	8.53	0.986	0.992	8.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4336	1.5860	1.2787	1.3702	1.4548	1.4469	1.3459	1.4600	-----	1.42	8.74	0.997	0.997	6.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6799	0.7274	0.6071	0.6539	0.6914	0.6941	0.6483	0.7817	-----	0.686	8.73	0.986	0.991	7.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.4197	1.5543	1.2710	1.3896	1.4137	1.3982	1.3138	1.5430	-----	1.41	8.61	0.990	0.993	7.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3878	0.3651	0.3403	0.3727	0.3928	0.3940	0.3428	0.3510	-----	0.368	8.74	0.993	0.997	6.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.4199	0.4588	0.3804	0.4036	0.4249	0.4141	0.3930	0.4466	-----	0.418	9.36	0.993	0.995	6.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.1307	0.0792	0.0904	0.1185	0.1413	0.1516	0.1624	0.1600	-----	0.129	8.78	0.997	0.999	24	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6905	0.7302	0.6223	0.6774	0.7048	0.7214	0.7643	0.7128	-----	0.703	8.84	0.998	0.999	6.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.0808	0.0923	0.0717	0.0761	0.0881	0.0908	0.1070	0.1153	-----	0.0903	8.97	0.984	0.999	16		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	1.0171	1.1444	0.9203	1.0225	1.0324	1.0037	0.8282	0.7582	-----	0.966	8.88	0.982	0.996	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2137	0.2339	0.1974	0.2129	0.2288	0.2261	0.2397	0.2592	-----	0.227	9.21	0.994	0.999	8.3	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2113	0.2373	0.1877	0.2025	0.2176	0.2241	0.2303	0.2512	-----	0.220	9.29	0.991	0.999	9.1	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.6377	0.7284	0.5882	0.6268	0.6433	0.6337	0.6370	0.6592	-----	0.644	9.55	0.999	1.00	6.1	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1299	0.1115	0.1037	0.1191	0.1429	0.1463	0.1538	0.1652	-----	0.134	9.48	0.995	1.00	16	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.1636	1.3588	1.0518	1.1454	1.1932	1.1873	1.2634	1.3531	-----	1.21	9.71	0.996	0.999	8.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.2035	1.3942	1.0957	1.1871	1.2452	1.2350	1.3529	1.3049	-----	1.25	9.76	0.998	0.998	7.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.0832	1.1807	1.0120	1.0763	1.1266	1.1283	1.1892	1.2587	-----	1.13	9.93	0.996	1.00	6.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.3946	1.5494	1.2289	1.3318	1.4339	1.4412	1.4836	1.5672	1.7609	1.47	10.31	0.998	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.3110	1.3922	1.1685	1.2591	1.3522	1.3636	1.4097	1.5070	-----	1.35	11.03	0.996	0.999	7.6	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3266	1.3963	1.2119	1.2493	1.3411	1.3349	1.3111	1.3667	-----	1.32	11.29	0.999	0.999	4.6	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.4875	0.2621	0.3088	0.5156	0.4584	0.4184	0.3805	0.3887	-----	0.403	11.17	0.988	0.996	22		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6810	0.7011	0.6112	0.6471	0.6857	0.6921	0.6819	0.7257	-----	0.678	11.47	0.998	0.999	5.1		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.44
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M93981.D	CAL BNA@50PPM	08/21/18 12:11	2	7M93974.D	CAL BNA@2PPM	08/21/18 09:23
3	7M93973.D	CAL BNA@10PPM	08/21/18 08:59	4	7M93979.D	CAL BNA@20PPM	08/21/18 11:25
5	7M93978.D	CAL BNA@80PPM	08/21/18 11:02	6	7M93977.D	CAL BNA@120PPM	08/21/18 10:37
7	7M93976.D	CAL BNA@160PPM	08/21/18 10:14	8	7M93975.D	CAL BNA@196PPM	08/21/18 09:51
9	7M93980.D	CAL BNA@0.5PPM	08/21/18 11:48				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2507	0.2765	0.2150	0.2367	0.2492	0.2518	0.2467	0.2574	-----	0.248	11.41	0.999	0.999	7.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4231	0.4325	0.3842	0.4017	0.4319	0.4362	0.4264	0.4413	-----	0.422	11.81	0.999	1.00	4.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.6374	0.6857	0.5519	0.5995	0.6296	0.6430	0.6172	0.6395	-----	0.626	12.06	0.999	0.999	6.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3753	0.3000	0.3089	0.3334	0.3858	0.3882	0.3893	0.4096	-----	0.361	12.17	0.998	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.3822	0.3752	0.3146	0.3778	0.3503	0.3174	0.2972	0.2950	-----	0.339	12.69	0.992	0.998	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2132	1.3486	1.1031	1.1515	1.2184	1.2190	1.1912	1.2492	-----	1.21	12.72	0.999	0.999	5.9	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1431	1.2264	1.0302	1.0799	1.1697	1.2100	1.1925	1.0737	-----	1.14	12.76	0.993	0.997	6.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.8450	0.9339	0.7795	0.7944	0.8546	0.8816	0.8261	0.6856	-----	0.825	12.77	0.975	0.992	9.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.6660	1.7071	1.5086	1.5531	1.7176	1.7169	1.7390	1.8762	-----	1.69	13.55	0.997	0.999	6.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.3367	1.3079	1.1670	1.2531	1.3462	1.2838	1.3614	1.4861	-----	1.32	13.99	0.996	0.999	7.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1896	1.4020	1.0830	1.1481	1.2419	1.3150	1.3431	1.4775	-----	1.28	14.02	0.993	0.999	10	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.2199	1.3288	1.0634	1.1715	1.2579	1.2572	1.2929	1.4084	-----	1.25	14.36	0.995	0.999	8.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.2080	1.3044	1.0811	1.1351	1.2498	1.2347	1.2870	1.4275	-----	1.24	15.73	0.995	0.999	8.6	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Qua	1.0028	1.1239	0.8939	0.9552	1.0506	1.0393	1.1089	1.2821	-----	1.06	15.75	0.985	0.997	11	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.0019	1.1782	0.9040	0.9654	1.0319	1.0173	1.0436	1.1280	-----	1.03	16.11	0.996	0.999	8.4	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.44
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M94012.D **Instrument:** GCMS 7

Cont Calibration Date/Time 8/22/2018 9:24:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.56	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.60	54.59	50	**		0.965	1.036	9.17	
Pyridine	1	0		3.07	52.71	50	**		3.350	3.089	5.43	
N-Nitrosodimethylamine	1	0		2.97	50.74	50	**		1.849	1.876	1.49	
2-Fluorophenol	1	0	S	4.59	48.61	50	**		2.300	2.236	2.77	
Benzaldehyde	1	0		5.41	52.00	50	20	0.01	1.846	1.741	3.99	
Aniline	1	0		5.50	52.27	50	**		3.786	3.957	4.53	
Pentachloroethane	1	0		5.54	53.85	50	**	0.05	0.889	0.866	7.71	
bis(2-Chloroethyl)ether	1	0		5.55	54.25	50	20	0.7	2.896	2.701	8.50	
Phenol-d5	1	0	S	5.47	48.65	50	**		3.450	3.356	2.70	
Phenol	1	0		5.48	48.91	50	20	0.8	3.902	3.817	2.19	
2-Chlorophenol	1	0		5.60	49.03	50	20	0.8	2.553	2.504	1.94	
N-Decane	1	0		5.66	52.06	50	**	0.05	3.331	3.282	4.11	
1,3-Dichlorobenzene	1	0		5.74	48.57	50	**		2.817	2.736	2.86	
1,4-Dichlorobenzene-d4	1	0	I	5.78	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.80	49.15	50	20		1.621	1.594	1.69	
1,2-Dichlorobenzene	1	0		5.92	48.48	50	**		1.553	1.505	3.04	
Benzyl alcohol	1	0		5.90	55.03	50	**		0.805	0.871	10.06	
bis(2-chloroisopropyl)ether	1	0		6.01	51.22	50	20	0.01	2.532	2.593	2.43	
2-Methylphenol	1	0		5.99	54.46	50	20	0.7	1.486	1.477	8.92	
Acetophenone	1	0		6.11	50.46	50	20	0.01	2.115	2.135	0.92	
Hexachloroethane	1	0		6.20	48.06	50	20	0.3	0.683	0.657	3.88	
N-Nitroso-di-n-propylamine	1	0		6.11	49.65	50	20	0.5	1.419	1.359	0.70	
3&4-Methylphenol	1	0		6.11	49.48	50	20		1.555	1.539	1.04	
Naphthalene-d8	1	0	I	6.80	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.23	23.63	25	**		0.132	0.125	5.49	
Nitrobenzene	1	0		6.24	50.24	50	20	0.2	0.543	0.546	0.48	
Isophorone	1	0		6.44	49.66	50	20	0.4	0.929	0.923	0.69	
2-Nitrophenol	1	0		6.50	48.33	50	20	0.1	0.218	0.210	3.33	
2,4-Dimethylphenol	1	0		6.53	50.68	50	20	0.2	0.471	0.446	1.36	
Benzoic Acid	1	0		6.60	45.54	50	**		0.340	0.296	8.93	
bis(2-Chloroethoxy)methane	1	0		6.60	48.52	50	20	0.3	0.536	0.521	2.96	
2,4-Dichlorophenol	1	0		6.69	51.78	50	20	0.2	0.359	0.335	3.57	
1,2,4-Trichlorobenzene	1	0		6.75	48.00	50	**		0.372	0.357	4.00	
Naphthalene	1	0		6.82	52.36	50	20	0.7	1.272	1.192	4.72	
4-Chloroaniline	1	0		6.85	56.43	50	20	0.01	0.390	0.440	12.85	
Hexachlorobutadiene	1	0		6.91	47.95	50	20	0.01	0.216	0.207	4.09	
Caprolactam	1	0		7.11	48.33	50	20	0.01	0.130	0.125	3.34	
4-Chloro-3-methylphenol	1	0		7.22	49.85	50	20	0.2	0.386	0.384	0.31	
2-Methylnaphthalene	1	0		7.36	48.02	50	**	0.4	0.818	0.786	3.96	
1-Methylnaphthalene	1	0		7.44	48.04	50	**	0.4	0.786	0.756	3.93	
Methylnaphthalenes	1	0		7.36	95.97	100	**			0.771	4.03	
1,1'-Biphenyl	1	0		7.72	48.44	50	20	0.01	0.976	0.945	3.13	
Acenaphthene-d10	1	0	I	8.23	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.49	48.65	50	20	0.01	0.568	0.553	2.70	
Hexachlorocyclopentadiene	1	0		7.48	48.00	50	20	0.05	0.200	0.199	4.00	
2,4,6-Trichlorophenol	1	0		7.57	51.37	50	20	0.2	0.383	0.394	2.74	
2,4,5-Trichlorophenol	1	0		7.61	47.89	50	20	0.2	0.409	0.392	4.22	
2-Fluorobiphenyl	1	0	S	7.64	24.76	25	**		1.245	1.233	0.98	
2-Chloronaphthalene	1	0		7.75	48.38	50	20	0.8	1.206	1.166	3.24	
1,4-Dimethylnaphthalene	1	0		8.03	51.52	50	**		0.891	0.918	3.03	
Dimethylnaphthalenes	1	0		8.03	51.52	50	20			0.918	3.03	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M94012.D **Instrument:** GCMS 7

Cont Calibration Date/Time 8/22/2018 9:24:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.81	48.78	50	**		0.844	0.824	2.44	
2-Nitroaniline	1	0		7.82	52.54	50	20	0.01	0.569	0.598	5.07	
Coumarin	1	0		8.01	49.18		**		0.469			
Acenaphthylene	1	0		8.10	50.54	50	20	0.9	1.700	1.719	1.08	
Dimethylphthalate	1	0		7.97	49.21	50	20	0.01	1.418	1.396	1.58	
2,6-Dinitrotoluene	1	0		8.02	53.22	50	20	0.2	0.315	0.336	6.44	
Acenaphthene	1	0		8.26	49.91	50	20	0.9	1.205	1.203	0.18	
3-Nitroaniline	1	0		8.17	54.38	50	20	0.01	0.306	0.332	8.76	
2,4-Dinitrophenol	1	0		8.27	47.35	50	20	0.01	0.164	0.168	5.31	
Dibenzofuran	1	0		8.41	51.24	50	20	0.8	1.817	1.699	2.48	
2,4-Dinitrotoluene	1	0		8.38	49.31	50	20	0.2	0.439	0.433	1.38	
4-Nitrophenol	1	0		8.31	50.06	50	20	0.01	0.345	0.346	0.13	
2,3,4,6-Tetrachlorophenol	1	0		8.52	48.10	50	20	0.01	0.354	0.340	3.81	
Fluorene	1	0		8.73	50.19	50	20	0.9	1.422	1.428	0.39	
4-Chlorophenyl-phenylether	1	0		8.72	49.47	50	20	0.4	0.686	0.678	1.06	
Diethylphthalate	1	0		8.60	50.65	50	20	0.01	1.413	1.431	1.30	
4-Nitroaniline	1	0		8.73	51.57	50	20	0.01	0.368	0.380	3.13	
Atrazine	1	0		9.35	47.86	50	20	0.01	0.418	0.400	4.28	
Phenanthrene-d10	1	0	I	9.67	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.77	45.78	50	20	0.01	0.129	0.126	8.45	
n-Nitrosodiphenylamine	1	0		8.83	48.02	50	20	0.01	0.703	0.675	3.97	
2,4,6-Tribromophenol	1	0	S	8.96	51.02	50	**		0.090	0.079	2.04	
1,2-Diphenylhydrazine	1	0		8.87	53.57	50	**		0.966	1.035	7.14	
4-Bromophenyl-phenylether	1	0		9.20	46.53	50	20	0.1	0.227	0.211	6.93	
Hexachlorobenzene	1	0		9.28	46.06	50	20	0.1	0.220	0.203	7.89	
N-Octadecane	1	0		9.55	50.17	50	**	0.05	0.644	0.647	0.34	
Pentachlorophenol	1	0		9.48	47.70	50	20	0.05	0.134	0.125	4.59	
Phenanthrene	1	0		9.70	47.29	50	20	0.7	1.215	1.149	5.41	
Anthracene	1	0		9.75	47.55	50	20	0.7	1.252	1.191	4.89	
Carbazole	1	0		9.92	47.65	50	20	0.01	1.132	1.079	4.69	
Di-n-butylphthalate	1	0		10.30	46.75	50	20	0.01	1.466	1.371	6.49	
Fluoranthene	1	0		11.03	47.35	50	20	0.6	1.345	1.274	5.30	
Chrysene-d12	1	0	I	12.72	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.29	49.90	50	20	0.6	1.317	1.315	0.19	
Benzidine	1	0		11.17	51.14	50	**		0.403	0.467	2.28	
Terphenyl-d14	1	0	S	11.47	24.68	25	**		0.678	0.670	1.27	
4,4'-DDE	1	0		11.41	49.96		**		0.248			
4,4'-DDD	1	0		11.81	49.76		**		0.422			
Butylbenzylphthalate	1	0		12.06	51.24	50	20	0.01	0.626	0.641	2.47	
4,4'-DDT	1	0		12.16	52.62		**		0.361			
3,3'-Dichlorobenzidine	1	0		12.68	53.50	50	20	0.01	0.339	0.379	7.00	
Benzo[a]anthracene	1	0		12.71	49.54	50	20	0.8	1.212	1.201	0.92	
Chrysene	1	0		12.75	49.98	50	20	0.7	1.141	1.140	0.03	
bis(2-Ethylhexyl)phthalate	1	0		12.76	50.34	50	20	0.01	0.825	0.831	0.68	
Perylene-d12	1	0	I	14.35	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.51	49.47	50	20	0.01	1.686	1.668	1.06	
Benzo[b]fluoranthene	1	0		13.93	52.85	50	20	0.7	1.318	1.393	5.71	
Benzo[k]fluoranthene	1	0		13.96	49.89	50	20	0.7	1.275	1.272	0.23	
Benzo[a]pyrene	1	0		14.29	48.69	50	20	0.7	1.250	1.217	2.62	
Indeno[1,2,3-cd]pyrene	1	0		15.65	49.09	50	20	0.5	1.241	1.218	1.82	
Dibenzo[a,h]anthracene	1	0		15.67	54.99	50	20	0.4	1.057	1.018	9.97	
Benzo[g,h,i]perylene	1	0		16.02	48.90	50	20	0.5	1.034	1.011	2.20	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M94027.D **Instrument:** GCMS 7

Cont Calibration Date/Time 8/22/2018 3:45:00 P Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.55	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.59	53.84	50	**		0.965	1.021	7.69	
Pyridine	1	0		3.06	49.60	50	**		3.350	2.899	0.81	
N-Nitrosodimethylamine	1	0		2.97	50.30	50	**		1.849	1.860	0.59	
2-Fluorophenol	1	0	S	4.59	46.80	50	**		2.300	2.153	6.41	
Benzaldehyde	1	0		5.40	51.62	50	20	0.01	1.846	1.729	3.25	
Aniline	1	0		5.50	50.59	50	**		3.786	3.830	1.18	
Pentachloroethane	1	0		5.54	51.92	50	**	0.05	0.889	0.834	3.84	
bis(2-Chloroethyl)ether	1	0		5.55	52.09	50	20	0.7	2.896	2.587	4.18	
Phenol-d5	1	0	S	5.47	47.66	50	**		3.450	3.288	4.68	
Phenol	1	0		5.48	48.45	50	20	0.8	3.902	3.781	3.09	
2-Chlorophenol	1	0		5.60	46.58	50	20	0.8	2.553	2.379	6.84	
N-Decane	1	0		5.65	51.37	50	**	0.05	3.331	3.238	2.73	
1,3-Dichlorobenzene	1	0		5.73	48.25	50	**		2.817	2.718	3.51	
1,4-Dichlorobenzene-d4	1	0	I	5.78	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.80	49.79	50	20		1.621	1.614	0.42	
1,2-Dichlorobenzene	1	0		5.92	49.11	50	**		1.553	1.525	1.78	
Benzyl alcohol	1	0		5.90	57.43	50	**		0.805	0.913	14.87	
bis(2-chloroisopropyl)ether	1	0		6.01	53.03	50	20	0.01	2.532	2.685	6.05	
2-Methylphenol	1	0		5.99	54.50	50	20	0.7	1.486	1.478	9.00	
Acetophenone	1	0		6.11	50.90	50	20	0.01	2.115	2.153	1.81	
Hexachloroethane	1	0		6.20	49.00	50	20	0.3	0.683	0.669	1.99	
N-Nitroso-di-n-propylamine	1	0		6.11	51.16	50	20	0.5	1.419	1.397	2.31	
3&4-Methylphenol	1	0		6.11	50.08	50	20		1.555	1.557	0.15	
Naphthalene-d8	1	0	I	6.80	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.23	24.26	25	**		0.132	0.128	2.97	
Nitrobenzene	1	0		6.24	50.28	50	20	0.2	0.543	0.546	0.56	
Isophorone	1	0		6.44	50.53	50	20	0.4	0.929	0.939	1.07	
2-Nitrophenol	1	0		6.50	48.77	50	20	0.1	0.218	0.212	2.46	
2,4-Dimethylphenol	1	0		6.53	51.58	50	20	0.2	0.471	0.454	3.17	
Benzoic Acid	1	0		6.60	49.87	50	**		0.340	0.326	0.26	
bis(2-Chloroethoxy)methane	1	0		6.60	49.00	50	20	0.3	0.536	0.526	2.01	
2,4-Dichlorophenol	1	0		6.69	51.53	50	20	0.2	0.359	0.333	3.06	
1,2,4-Trichlorobenzene	1	0		6.76	49.77	50	**		0.372	0.370	0.46	
Naphthalene	1	0		6.82	52.03	50	20	0.7	1.272	1.185	4.06	
4-Chloroaniline	1	0		6.85	57.84	50	20	0.01	0.390	0.451	15.69	
Hexachlorobutadiene	1	0		6.91	48.00	50	20	0.01	0.216	0.207	4.00	
Caprolactam	1	0		7.12	48.42	50	20	0.01	0.130	0.126	3.15	
4-Chloro-3-methylphenol	1	0		7.22	49.80	50	20	0.2	0.386	0.384	0.40	
2-Methylnaphthalene	1	0		7.36	49.54	50	**	0.4	0.818	0.811	0.91	
1-Methylnaphthalene	1	0		7.44	48.80	50	**	0.4	0.786	0.768	2.40	
Methylnaphthalenes	1	0		7.36	98.36	100	**			0.790	1.64	
1,1'-Biphenyl	1	0		7.73	48.58	50	20	0.01	0.976	0.948	2.84	
Acenaphthene-d10	1	0	I	8.23	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.49	49.64	50	20	0.01	0.568	0.564	0.72	
Hexachlorocyclopentadiene	1	0		7.48	49.34	50	20	0.05	0.200	0.205	1.33	
2,4,6-Trichlorophenol	1	0		7.57	49.58	50	20	0.2	0.383	0.380	0.83	
2,4,5-Trichlorophenol	1	0		7.61	50.10	50	20	0.2	0.409	0.410	0.20	
2-Fluorobiphenyl	1	0	S	7.64	24.81	25	**		1.245	1.236	0.77	
2-Chloronaphthalene	1	0		7.75	48.39	50	20	0.8	1.206	1.167	3.22	
1,4-Dimethylnaphthalene	1	0		8.03	51.93	50	**		0.891	0.926	3.86	
Dimethylnaphthalenes	1	0		8.03	51.93	50	20			0.926	3.86	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M94027.D **Instrument:** GCMS 7

Cont Calibration Date/Time 8/22/2018 3:45:00 P Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.81	47.70	50	**		0.844	0.805	4.60	
2-Nitroaniline	1	0		7.83	52.87	50	20	0.01	0.569	0.601	5.74	
Coumarin	1	0		8.01	50.06		**		0.469			
Acenaphthylene	1	0		8.11	51.12	50	20	0.9	1.700	1.738	2.25	
Dimethylphthalate	1	0		7.97	49.25	50	20	0.01	1.418	1.397	1.50	
2,6-Dinitrotoluene	1	0		8.03	52.61	50	20	0.2	0.315	0.332	5.23	
Acenaphthene	1	0		8.26	49.42	50	20	0.9	1.205	1.191	1.17	
3-Nitroaniline	1	0		8.17	55.39	50	20	0.01	0.306	0.339	10.79	
2,4-Dinitrophenol	1	0		8.27	49.88	50	20	0.01	0.164	0.178	0.23	
Dibenzofuran	1	0		8.41	50.79	50	20	0.8	1.817	1.684	1.59	
2,4-Dinitrotoluene	1	0		8.39	49.18	50	20	0.2	0.439	0.431	1.65	
4-Nitrophenol	1	0		8.31	52.58	50	20	0.01	0.345	0.363	5.16	
2,3,4,6-Tetrachlorophenol	1	0		8.52	48.53	50	20	0.01	0.354	0.343	2.94	
Fluorene	1	0		8.73	50.11	50	20	0.9	1.422	1.425	0.22	
4-Chlorophenyl-phenylether	1	0		8.72	48.34	50	20	0.4	0.686	0.663	3.33	
Diethylphthalate	1	0		8.60	50.19	50	20	0.01	1.413	1.418	0.39	
4-Nitroaniline	1	0		8.73	51.92	50	20	0.01	0.368	0.383	3.85	
Atrazine	1	0		9.36	49.13	50	20	0.01	0.418	0.410	1.74	
Phenanthrene-d10	1	0	I	9.68	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.77	44.32	50	20	0.01	0.129	0.122	11.35	
n-Nitrosodiphenylamine	1	0		8.83	48.17	50	20	0.01	0.703	0.677	3.66	
2,4,6-Tribromophenol	1	0	S	8.96	51.85	50	**		0.090	0.081	3.69	
1,2-Diphenylhydrazine	1	0		8.88	52.92	50	**		0.966	1.022	5.83	
4-Bromophenyl-phenylether	1	0		9.20	47.83	50	20	0.1	0.227	0.217	4.34	
Hexachlorobenzene	1	0		9.28	48.39	50	20	0.1	0.220	0.213	3.23	
N-Octadecane	1	0		9.55	50.46	50	**	0.05	0.644	0.650	0.93	
Pentachlorophenol	1	0		9.48	50.03	50	20	0.05	0.134	0.131	0.07	
Phenanthrene	1	0		9.71	48.65	50	20	0.7	1.215	1.182	2.69	
Anthracene	1	0		9.76	47.78	50	20	0.7	1.252	1.197	4.43	
Carbazole	1	0		9.92	48.42	50	20	0.01	1.132	1.096	3.16	
Di-n-butylphthalate	1	0		10.30	47.29	50	20	0.01	1.466	1.386	5.42	
Fluoranthene	1	0		11.03	48.39	50	20	0.6	1.345	1.302	3.21	
Chrysene-d12	1	0	I	12.72	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.29	49.34	50	20	0.6	1.317	1.300	1.31	
Benzidine	1	0		11.17	51.21	50	**		0.403	0.468	2.43	
Terphenyl-d14	1	0	S	11.47	24.69	25	**		0.678	0.670	1.24	
4,4'-DDE	1	0		11.41	48.72		**		0.248			
4,4'-DDD	1	0		11.81	49.69		**		0.422			
Butylbenzylphthalate	1	0		12.06	49.66	50	20	0.01	0.626	0.621	0.67	
4,4'-DDT	1	0		12.16	51.85		**		0.361			
3,3'-Dichlorobenzidine	1	0		12.68	51.55	50	20	0.01	0.339	0.366	3.09	
Benzo[a]anthracene	1	0		12.71	49.98	50	20	0.8	1.212	1.211	0.05	
Chrysene	1	0		12.75	47.89	50	20	0.7	1.141	1.093	4.22	
bis(2-Ethylhexyl)phthalate	1	0		12.76	50.68	50	20	0.01	0.825	0.836	1.37	
Perylene-d12	1	0	I	14.37	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.52	48.11	50	20	0.01	1.686	1.622	3.79	
Benzo[b]fluoranthene	1	0		13.95	45.90	50	20	0.7	1.318	1.210	8.20	
Benzo[k]fluoranthene	1	0		13.98	45.94	50	20	0.7	1.275	1.172	8.12	
Benzo[a]pyrene	1	0		14.31	48.44	50	20	0.7	1.250	1.211	3.12	
Indeno[1,2,3-cd]pyrene	1	0		15.67	49.47	50	20	0.5	1.241	1.228	1.06	
Dibenzo[a,h]anthracene	1	0		15.69	54.86	50	20	0.4	1.057	1.015	9.72	
Benzo[g,h,i]perylene	1	0		16.05	48.99	50	20	0.5	1.034	1.013	2.01	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M94027.D **Instrument:** GCMS 7

Cont Calibration Date/Time 8/22/2018 3:45:00 P Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Methylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.803	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.891	0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

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FORM8

Internal Standard Areas

Evaluation Std Data File: 7M93981.D Method: EPA 8270D

Analysis Date/Time: 08/21/18 12:11

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	75211	2.57	131555	5.78	483474	6.80	298424	8.24	527315	9.68	522565	12.73	455516	14.42
Eval File Area Limit:	37606-150422		65778-263110		241737-966948		149212-596848		263658-1054630		261282-1045130		227758-911032	
Eval File Rt Limit:	2.07-3.07		5.28-6.28		6.3-7.3		7.74-8.74		9.18-10.18		12.23-13.23		13.92-14.92	

Data File	Sample														
7M93973.D	CAL BNA@10PPM	82526	2.55	140808	5.78	516348	6.81	329544	8.26	576342	9.70	570191	12.73	484112	14.39
7M93974.D	CAL BNA@2PPM	80517	2.56	145864	5.78	535524	6.80	342506	8.23	591445	9.68	587514	12.72	495633	14.37
7M93975.D	CAL BNA@196PPM	73998	2.56	128890	5.78	479740	6.80	309109	8.24	520750	9.69	574549	12.73	454691	14.39
7M93976.D	CAL BNA@160PPM	79138	2.56	141041	5.78	503798	6.80	351785	8.24	541169	9.68	579081	12.73	480616	14.40
7M93977.D	CAL BNA@120PPM	81572	2.56	141926	5.78	513249	6.80	324788	8.23	558290	9.68	562079	12.72	485517	14.38
7M93978.D	CAL BNA@80PPM	76738	2.56	134448	5.78	480313	6.82	301877	8.27	525381	9.71	529516	12.74	452986	14.43
7M93979.D	CAL BNA@20PPM	73604	2.57	131942	5.78	481326	6.82	308065	8.26	534784	9.70	539240	12.75	459161	14.46
7M93980.D	CAL BNA@0.5PPM	76491	2.56	139473	5.78	512287	6.81	320753	8.25	569558	9.69	565396	12.75	491426	14.45
7M93981.D	CAL BNA@50PPM	75211	2.57	131555	5.78	483474	6.80	298424	8.24	527315	9.68	522565	12.73	455516	14.42
7M93982.D	ICV BNA@50PPM	72571	2.56	129500	5.78	457953	6.82	285425	8.26	506349	9.71	517004	12.76	443984	14.50

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 7M94012.D Method: EPA 8270D

Analysis Date/Time: 08/22/18 09:24

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	72715	2.56	126685	5.78	466938	6.80	290792	8.23	517872	9.67	506313	12.72	437771	14.35
Eval File Area Limit:	36358-145430		63342-253370		233469-933876		145396-581584		258936-1035744		253156-1012626		218886-875542	
Eval File Rt Limit:	2.06-3.06		5.28-6.28		6.3-7.3		7.73-8.73		9.17-10.17		12.22-13.22		13.85-14.85	

Data File	Sample														
7M94013.D	WMB69959	70273	2.56	121479	5.78	455824	6.82	286982	8.27	496647	9.71	472991	12.73	405823	14.41
7M94014.D	SMB69957(MS)	58630	2.55	102664	5.78	370709	6.80	228065	8.24	403466	9.68	399558	12.73	332545	14.42
7M94015.D	SMB69957	57345	2.54	105379	5.78	373037	6.79	231378	8.22	401366	9.67	386758	12.71	323054	14.36
7M94016.D	OMB69865	66261	2.56	115064	5.78	418804	6.80	261835	8.23	456975	9.68	434647	12.72	366960	14.40
7M94017.D	AD06050-005(10X)	64910	2.56	122717	5.78	439104	6.80	267307	8.22	449279	9.67	439723	12.72	381492	14.41
7M94018.D	AD05930-007(T)	61327	2.57	111309	5.78	393617	6.80	273391	8.25	442482	9.71	431207	12.73	370898	14.38
7M94019.D	AD05930-013(T)	97090	2.56	177894	5.78	617379	6.81	376587	8.25	644541	9.69	592765	12.73	503332	14.42
7M94020.D	AD06057-001	94304	2.56	165864	5.78	591438	6.79	358828	8.22	609331	9.67	552436	12.72	462811	14.39
7M94021.D	EF-SPLP V-285163(0	83099	2.56	151901	5.78	549027	6.79	335014	8.22	590047	9.67	547324	12.71	446852	14.35
7M94022.D	WMB69963	98584	2.56	174098	5.78	632416	6.79	394796	8.22	671116	9.67	648354	12.71	543988	14.35
7M94023.D	WMB69955	72987	2.56	124615	5.78	444378	6.80	269451	8.23	470291	9.67	453379	12.72	387495	14.37
7M94025.D	AD05999-001	67422	2.54	122121	5.78	440404	6.79	273502	8.22	474571	9.67	447943	12.71	376600	14.36

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 7M94027.D Method: EPA 8270D

Analysis Date/Time: 08/22/18 15:45

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	75985	2.55	128149	5.78	470988	6.80	296622	8.23	526052	9.68	524505	12.72	452730	14.37
Eval File Area Limit:	37992-151970		64074-256298		235494-941976		148311-593244		263026-1052104		262252-1049010		226365-905460	
Eval File Rt Limit:	2.05-3.05		5.28-6.28		6.3-7.3		7.73-8.73		9.18-10.18		12.22-13.22		13.87-14.87	

Data File	Sample														
7M94028.D	AD05999-001(MS)	78463	2.54	135267	5.78	484055	6.80	300987	8.23	523543	9.68	500658	12.72	358744	14.35
7M94029.D	AD05999-001(MSD)	75609	2.55	130291	5.78	473054	6.80	304127	8.23	514763	9.67	484403	12.72	381326	14.36
7M94030.D	SMB69958(MS)	67858	2.55	116633	5.78	428902	6.79	267656	8.22	458285	9.67	445582	12.71	356682	14.34
7M94031.D	SMB69958	84399	2.55	140247	5.78	476193	6.79	289758	8.22	493602	9.67	465393	12.71	375439	14.33
7M94032.D	AD06068-004	63778	2.54	111339	5.78	411255	6.79	254807	8.21	445385	9.66	397586	12.71	319204	14.33
7M94033.D	AD06068-004(MS)	67431	2.55	115533	5.78	416806	6.79	263966	8.22	450910	9.67	430585	12.71	341484	14.33
7M94034.D	AD06068-004(MSD)	61439	2.54	108676	5.78	391685	6.79	249195	8.21	425628	9.66	410378	12.71	320980	14.33
7M94035.D	AD06068-001	72998	2.54	123507	5.78	428144	6.79	253931	8.21	442773	9.66	413342	12.71	330907	14.33
7M94036.D	AD06068-002	76900	2.54	126068	5.78	457218	6.79	275575	8.21	472086	9.66	445006	12.71	369738	14.33
7M94037.D	AD06068-003	62413	2.54	108059	5.78	405861	6.79	257505	8.21	444107	9.66	395858	12.71	321246	14.33
7M94038.D	AD06042-004	77248	2.54	133383	5.78	472686	6.79	276796	8.21	471555	9.66	430876	12.71	355093	14.33
7M94039.D	AD06042-006	59216	2.54	107299	5.78	406253	6.79	251578	8.21	425733	9.66	376613	12.71	300670	14.33
7M94040.D	AD06042-008	66779	2.54	121185	5.78	452152	6.79	277306	8.20	477890	9.66	419515	12.71	338024	14.33
7M94041.D	AD06042-010	75624	2.55	141962	5.78	530833	6.79	318100	8.21	536735	9.66	472414	12.71	373251	14.33
7M94042.D	AD06027-001	80018	2.53	137340	5.78	496267	6.79	299446	8.21	516381	9.66	467652	12.71	381970	14.33
7M94043.D	AD05985-001	59982	2.55	110637	5.78	409858	6.79	253139	8.21	420608	9.66	371449	12.71	305194	14.33
7M94044.D	AD05985-003	66699	2.55	120727	5.78	444383	6.79	266199	8.21	462272	9.66	408577	12.71	328268	14.33
7M94045.D	AD05985-006	85824	2.55	153076	5.78	549686	6.79	330295	8.21	562442	9.66	507441	12.71	405591	14.33
7M94046.D	AD06026-001	70636	2.54	131429	5.78	480689	6.79	281565	8.21	479878	9.66	422057	12.71	355873	14.33
7M94047.D	AD06026-003	68370	2.54	152340	5.78	591701	6.80	387678	8.23	589932	9.67	512144	12.72	480776	14.33
7M94048.D	AD06065-001	76644	2.55	141729	5.78	515102	6.79	305667	8.21	506413	9.66	405467	12.71	325739	14.33
7M94049.D	AD06069-001	87765	2.55	149786	5.78	528164	6.79	319546	8.21	540403	9.66	462117	12.71	376256	14.33
7M94050.D	AD06053-001	64087	2.55	119339	5.78	425589	6.79	253929	8.21	407262	9.66	374847	12.71	313269	14.33
7M94051.D	AD06053-002	68320	2.55	127040	5.78	525588	6.79	303389	8.21	501967	9.66	400329	12.71	342624	14.33
7M94052.D	AD06053-003	65984	2.55	122432	5.78	442776	6.79	257596	8.21	426819	9.66	393703	12.71	326436	14.33
7M94053.D	AD06073-001	76372	2.55	132871	5.78	475343	6.79	293297	8.21	484841	9.66	408311	12.71	331468	14.33
7M94054.D	AD06073-002	69608	2.55	127057	5.78	466940	6.79	281522	8.21	457252	9.66	383141	12.71	320257	14.33
7M94055.D	AD06073-003	85187	2.55	146824	5.78	514733	6.79	306962	8.21	505358	9.66	423217	12.71	368833	14.33

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

PCB Data

Form1

ORGANICS PCB REPORT

Sample Number: AD05999-001
Client Id: SS-1
Data File: 3G110753.D
Analysis Date: 08/23/18 16:39
Date Rec/Extracted: 08/16/18-08/23/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.026	U	11097-69-1	Aroclor-1254	0.026	U
11104-28-2	Aroclor-1221	0.026	U	11096-82-5	Aroclor-1260	0.026	U
11141-16-5	Aroclor-1232	0.026	U	37324-23-5	Aroclor-1262	0.026	U
53469-21-9	Aroclor-1242	0.026	U	11100-14-4	Aroclor-1268	0.026	U
12672-29-6	Aroclor-1248	0.026	U	1336-36-3	Aroclor (Total)	0.026	U

Worksheet #: 477245

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2018\GC_3\Data\08-23-18\
Data File : 3G110753.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2018 16:39
Operator : MS/ZM/MLC
Sample : AD05999-001
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 23 17:15:50 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0724.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Jul 25 11:18:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.780	3.831	575848	1188105	81.258	84.474
45)DCB-Surrogate	9.888	10.625	676885	1420362	74.677	77.907

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\08-23-18\
Data File : 3G110753.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2018 16:39
Operator : MS/ZM/MLC
Sample : AD05999-001
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 23 17:15:50 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0724.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Jul 25 11:18:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

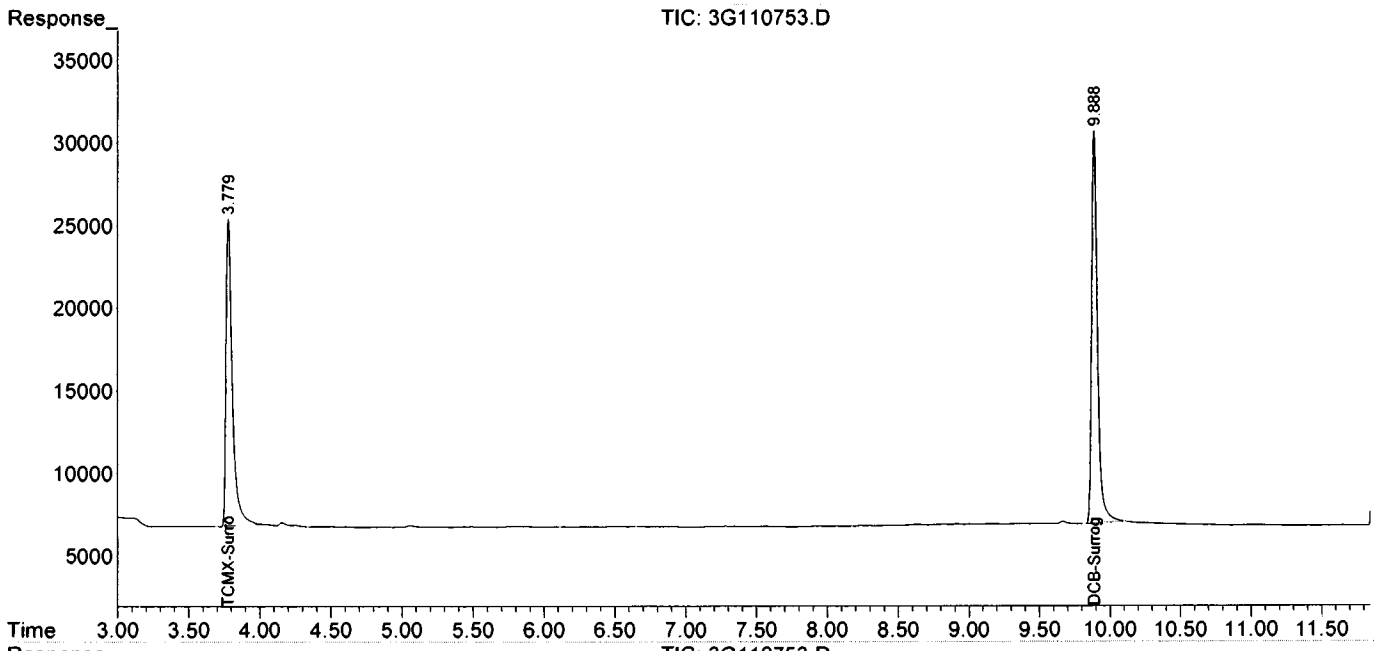

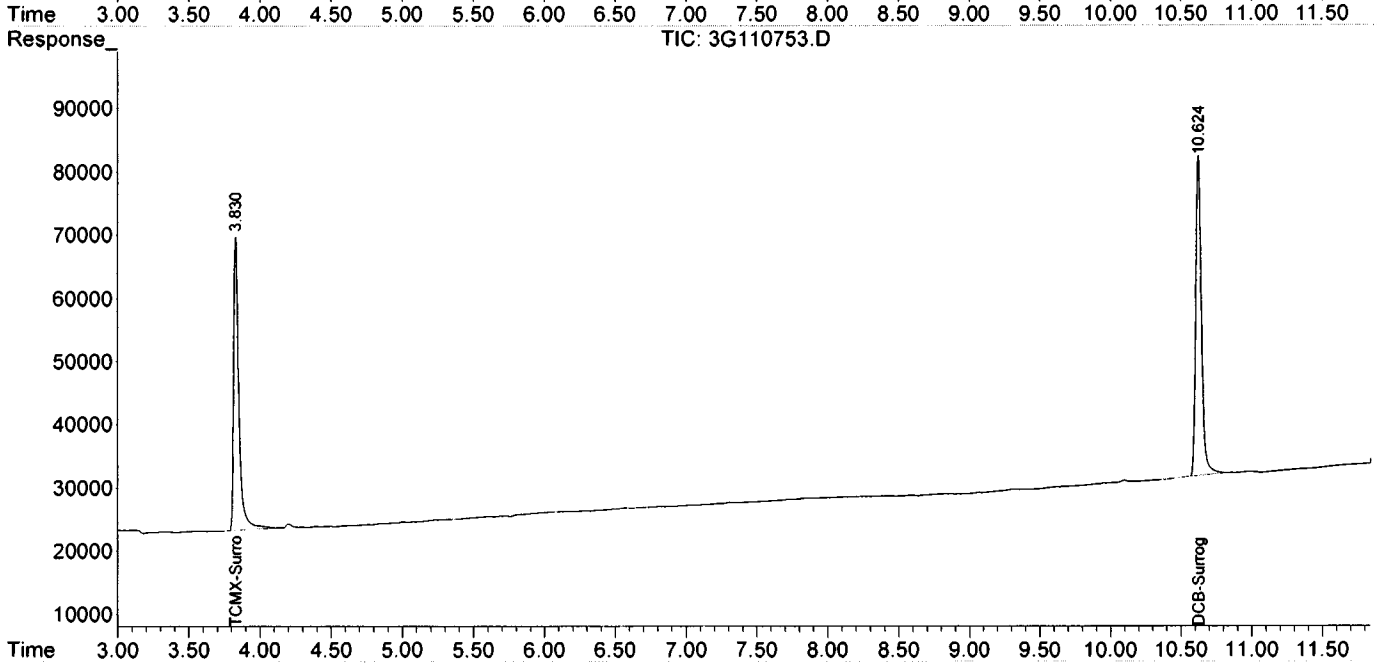

Form1

ORGANICS PCB REPORT

Sample Number: SMB69977
Client Id:
Data File: 3G110743.D
Analysis Date: 08/23/18 12:29
Date Rec/Extracted: NA-08/23/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.025	U	11097-69-1	Aroclor-1254	0.025	U
11104-28-2	Aroclor-1221	0.025	U	11096-82-5	Aroclor-1260	0.025	U
11141-16-5	Aroclor-1232	0.025	U	37324-23-5	Aroclor-1262	0.025	U
53469-21-9	Aroclor-1242	0.025	U	11100-14-4	Aroclor-1268	0.025	U
12672-29-6	Aroclor-1248	0.025	U				

Worksheet #: 477245

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2018\GC_3\Data\08-23-18\
Data File : 3G110743.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2018 12:29
Operator : MS/ZM/MLC
Sample : SMB69977
Misc : S,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 23 13:20:34 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0724.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Jul 25 11:18:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.783	3.831	555125	1149459	78.333	81.726
45)DCB-Surrogate	9.893	10.625	650678	1376778	71.785	75.517

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\08-23-18\
Data File : 3G110743.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2018 12:29
Operator : MS/ZM/MLC
Sample : SMB69977
Misc : S,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 23 13:20:34 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0724.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Jul 25 11:18:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

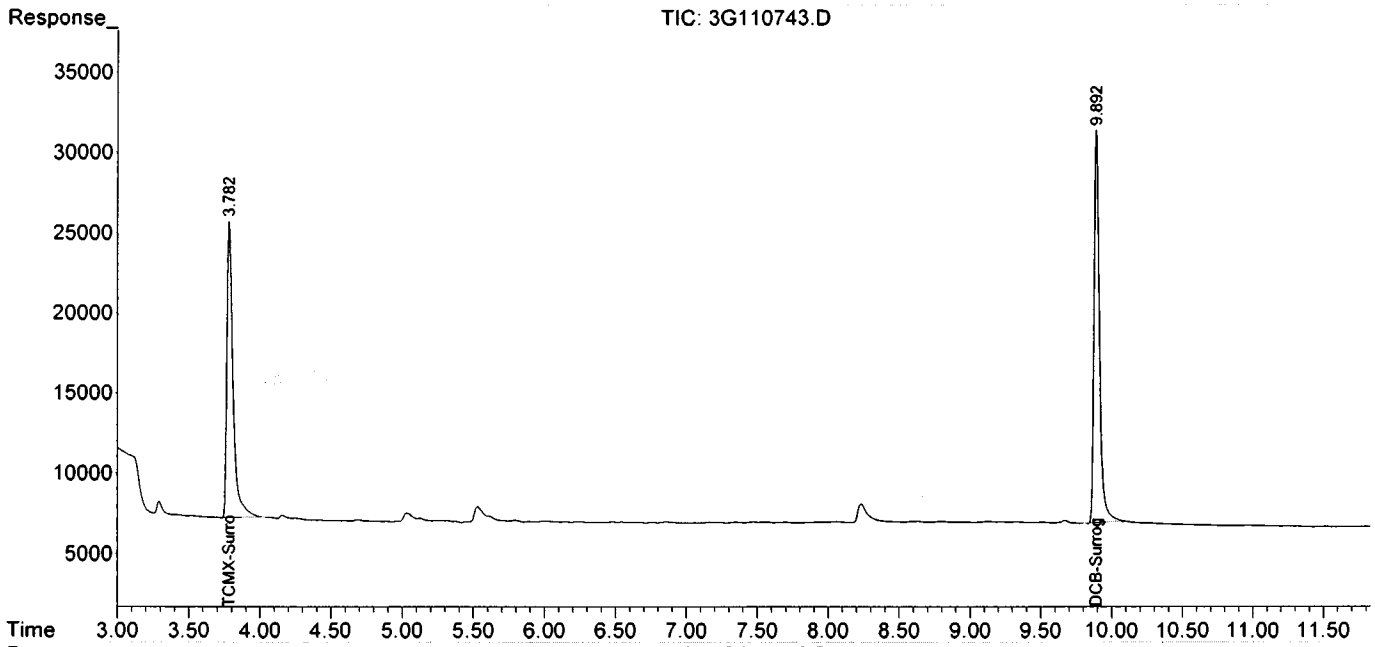

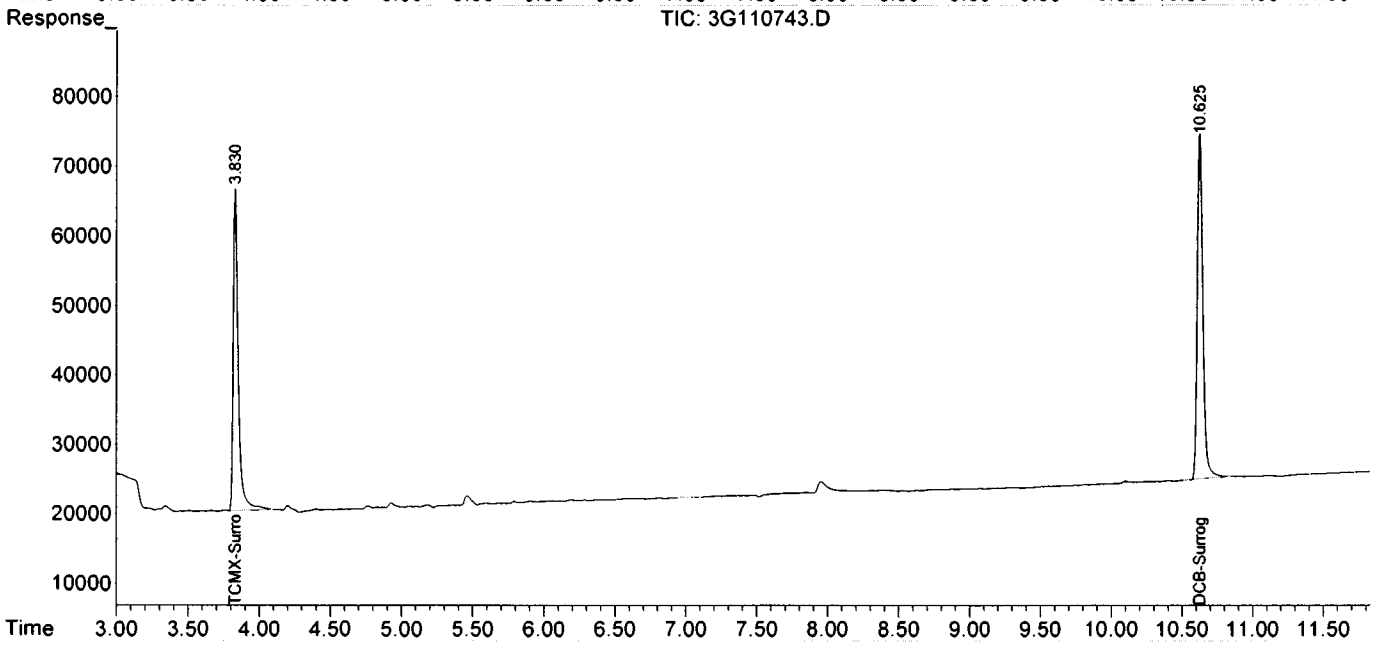

FORM2

Surrogate Recovery

Method: EPA 8082A

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column1 S3 Recov	Column2 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
3G110743.D	SMB69977	S	08/23/18 12:29	1		78	82	72	76		
3G110753.D	AD05999-001	S	08/23/18 16:39	1		81	84	75	78		
3G110744.D	SMB69977(MS)	S	08/23/18 12:44	1		81	83	73	76		
3G110751.D	AD05999-001(MS)	S	08/23/18 16:09	1		91	94	73	77		
3G110752.D	AD05999-001(MSD)	S	08/23/18 16:23	1		88	90	74	77		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8082A

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	37-141
S2=TCMX-Surrogate	100	37-141
S3=DCB-Surrogate	100	34-146
S4=DCB-Surrogate	100	34-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69977

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G110744.D	SMB69977(MS)	8/23/2018 12:44:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	818.362	0	1000	82	30	163
Aroclor-1260 -Total	1	794.098	0	1000	79	25	166

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69977

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G110751.D	AD05999-001(MS)	8/23/2018 4:09:00 PM
Non Spike(If applicable):	3G110753.D	AD05999-001	8/23/2018 4:39:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	979.718	0	1000	98	30	163
Aroclor-1260 -Total	1	894.594	0	1000	89	25	166

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G110752.D	AD05999-001(MSD)	8/23/2018 4:23:00 PM
Non Spike(If applicable):	3G110753.D	AD05999-001	8/23/2018 4:39:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	949.144	0	1000	95	30	163
Aroclor-1260 -Total	1	897.42	0	1000	90	25	166

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: SMB69977

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G110752.D	AD05999-001(MSD)	8/23/2018 4:23:00 PM
Duplicate(If applicable):	3G110751.D	AD05999-001(MS)	8/23/2018 4:09:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Aroclor-1016 -Total	1	949.144	979.718	3.2	40
Aroclor-1260 -Total	1	897.42	894.594	0.32	37

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: SMB69977
Blank Data File: 3G110743.D
Matrix: Soil

Blank Analysis Date: 08/23/18 12:29
Blank Extraction Date: 08/23/18
(If Applicable)
Method: EPA 8082A

Sample Number	Data File	Analysis Date
AD05999-001	3G110753.D	08/23/18 16:39
AD05999-001(MS)	3G110751.D	08/23/18 16:09
SMB69977(MS)	3G110744.D	08/23/18 12:44
AD05999-001(MSD	3G110752.D	08/23/18 16:23

Form 5

Method: EPA 8082A

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G110256.D	500PPB	07/24/18 10:39	Soil					
3G110257.D	500PPB	07/24/18 10:54	Soil					
3G110258.D	500PPB	07/24/18 11:09	Soil					
3G110259.D	CAL 3268@500PPB	07/24/18 11:24	Soil	3G11026	9.8891	0.0061	10.6222	0.0132
3G110260.D	CAL 1242@500PPB	07/24/18 11:39	Soil	3G11026	9.8892	0.0071	10.6205	0.0028
3G110261.D	CAL 1248@500PPB	07/24/18 11:54	Soil	3G11026	9.8886	0.001	10.6219	0.0104
3G110262.D	CAL 2154@500PPB	07/24/18 12:09	Soil	3G11026	9.8901	0.0162	10.6219	0.0104
3G110263.D	CAL 1262@500PPB	07/24/18 12:24	Soil	3G11026	9.8885	0	10.6213	0.0047
3G110264.D	CAL 1660@50PPB	07/24/18 12:38	Soil	3G11026	9.8885	0	10.6208	0
3G110265.D	CAL 1660@200PPB	07/24/18 12:53	Soil	3G11026	9.8905	0.0202	10.6212	0.0038
3G110266.D	CAL 1660@500PPB	07/24/18 13:08	Soil	3G11026	9.8901	0.0162	10.6230	0.0207
3G110267.D	CAL 1660@1000PPB	07/24/18 13:23	Soil	3G11026	9.8884	0.001	10.6206	0.0019
3G110268.D	CAL 1660@2000PPB	07/24/18 13:38	Soil	3G11026	9.8893	0.0081	10.6219	0.0104
3G110269.D	CAL 1660@4000PPB	07/24/18 13:53	Soil	3G11026	9.8893	0.0081	10.6213	0.0047
3G110270.D	ICV	07/24/18 14:07	Soil	3G11026	9.8903	0.0182	10.6232	0.0226

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8082A
Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G110742.D	CAL 1660@1000PPB	08/23/18 11:07	Soil	3G11074	9.8948	0	10.6259	0
3G110743.D	SMB69977	08/23/18 12:29	Soil	3G11074	9.8928	0.0202	10.6253	0.0056
3G110744.D	SMB69977(MS)	08/23/18 12:44	Soil	3G11074	9.8873	0.0758	10.6233	0.0245
3G110745.D	AD06097-001	08/23/18 12:58	Soil	3G11074	9.8802	0.1477	10.6169	0.0847
3G110746.D	AD06098-002	08/23/18 13:13	Soil	3G11074	9.8810	0.1396	10.6157	0.096
3G110747.D	AD06097-001	08/23/18 13:28	Soil	3G11074	9.8819	0.1305	10.6188	0.0668
3G110748.D	SMB69979	08/23/18 14:40	Soil	3G11074	9.8936	0.0121	10.6244	0.0141
3G110749.D	SMB69979(MS)	08/23/18 14:54	Soil	3G11074	9.8867	0.0819	10.6222	0.0348
3G110750.D	CAL 1660@1000PPB	08/23/18 15:09	Soil	3G11074	9.8876	0.0728	10.6257	0.0019
3G110751.D	AD05999-001(MS)	08/23/18 16:09	Soil	3G11075	9.8942	0.0667	10.6244	0.0122
3G110752.D	AD05999-001(MSD)	08/23/18 16:23	Soil	3G11075	9.8875	0.001	10.6225	0.0301
3G110753.D	AD05999-001	08/23/18 16:39	Soil	3G11075	9.8884	0.0081	10.6253	0.0038
3G110754.D	AD06047-001	08/23/18 16:54	Soil	3G11075	9.8859	0.0172	10.6213	0.0414
3G110755.D	AD06047-002	08/23/18 17:10	Soil	3G11075	9.8816	0.0607	10.6174	0.0781
3G110756.D	AD06075-001	08/23/18 17:25	Soil	3G11075	9.8828	0.0486	10.6173	0.0791
3G110757.D	AD06075-003	08/23/18 17:40	Soil	3G11075	9.8839	0.0374	10.6218	0.0367
3G110758.D	AD06075-005	08/23/18 17:56	Soil	3G11075	9.8851	0.0253	10.6208	0.0461
3G110759.D	AD06075-007	08/23/18 18:11	Soil	3G11075	9.8836	0.0405	10.6203	0.0508
3G110760.D	AD06075-009	08/23/18 18:26	Soil	3G11075	9.8834	0.0425	10.6184	0.0687
3G110761.D	AD06075-011	08/23/18 18:42	Soil	3G11075	9.8840	0.0364	10.6197	0.0565
3G110762.D	AD06075-013	08/23/18 18:57	Soil	3G11075	9.8844	0.0324	10.6208	0.0461
3G110763.D	AD06059-001	08/23/18 19:12	Soil	3G11075	9.8836	0.0405	10.6192	0.0612
3G110764.D	AD06059-002	08/23/18 19:28	Soil	3G11075	9.8838	0.0384	10.6194	0.0593
3G110765.D	AD06051-001(MS)	08/23/18 19:43	Soil	3G11075	9.8859	0.0172	10.6219	0.0358
3G110766.D	AD06051-001(MSD)	08/23/18 19:58	Soil	3G11075	9.8849	0.0273	10.6206	0.048
3G110767.D	AD06051-001	08/23/18 20:13	Soil	3G11075	9.8857	0.0192	10.6212	0.0424
3G110768.D	CAL 1660@1000PPB	08/23/18 20:29	Soil	3G11075	9.8887	0.0111	10.6251	0.0056
3G110769.D	2000PPB	08/23/18 20:44	Soil	3G11076	9.8880	0.0071	10.6241	0.0094
3G110770.D	AD06051-002	08/23/18 20:59	Soil	3G11076	9.8854	0.0334	10.6219	0.0301
3G110771.D	AD06051-003	08/23/18 21:14	Soil	3G11076	9.8850	0.0374	10.6209	0.0395
3G110772.D	AD06051-004	08/23/18 21:30	Soil	3G11076	9.8861	0.0263	10.6238	0.0122
3G110773.D	AD06051-005	08/23/18 21:45	Soil	3G11076	9.8842	0.0455	10.6189	0.0584
3G110774.D	AD06078-009	08/23/18 22:00	Soil	3G11076	9.8823	0.0647	10.6179	0.0678
3G110775.D	AD06027-001	08/23/18 22:15	Soil	3G11076	9.8871	0.0162	10.6230	0.0198
3G110776.D	AD06065-001	08/23/18 22:30	Soil	3G11076	9.8836	0.0516	10.6189	0.0584
3G110777.D	AD06073-001	08/23/18 22:46	Soil	3G11076	9.8845	0.0425	10.6208	0.0405
3G110778.D	AD06073-002	08/23/18 23:01	Soil	3G11076	9.8837	0.0506	10.6199	0.049
3G110779.D	AD06073-003	08/23/18 23:16	Soil	3G11076	9.8826	0.0617	10.6178	0.0687
3G110780.D	AD06073-004	08/23/18 23:31	Soil	3G11076	9.8835	0.0526	10.6190	0.0574
3G110781.D	AD06073-005	08/23/18 23:46	Soil	3G11076	9.8843	0.0445	10.6191	0.0565
3G110782.D	AD06073-006	08/24/18 00:02	Soil	3G11076	9.8848	0.0394	10.6215	0.0339
3G110783.D	AD05973-011(R)	08/24/18 00:17	Soil	3G11076	9.8864	0.0233	10.6224	0.0254
3G110784.D	CAL 1660@1000PPB	08/24/18 00:32	Soil	3G11076	9.8885	0.002	10.6236	0.0141
3G110785.D	2000PPB	08/24/18 00:48	Soil	3G11078	9.8891	0.0061	10.6245	0.0085

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G110264.D	CAL 1660@50PPB	07/24/18 12:38	2	3G110265.D	CAL 1660@200PPB	07/24/18 12:53
3	3G110266.D	CAL 1660@500PPB	07/24/18 13:08	4	3G110267.D	CAL 1660@1000PPB	07/24/18 13:23
5	3G110268.D	CAL 1660@2000PPB	07/24/18 13:38	6	3G110269.D	CAL 1660@4000PPB	07/24/18 13:53
7	3G110259.D	CAL 3268@500PPB	07/24/18 11:24	8	3G110260.D	CAL 1242@500PPB	07/24/18 11:39
9	3G110261.D	CAL 1248@500PPB	07/24/18 11:54	10	3G110262.D	CAL 2154@500PPB	07/24/18 12:09

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	Avg	0.7111	0.7081	0.6773	0.6883	0.7232	0.7439	----	----	0.709	3.78	1.00	1.00	3.4	5.00	20.00	50.00	100.0	200.0	400.0		
Aroclor-1016	1	1	Avg	0.0193	0.0194	0.0172	0.0162	0.0164	0.0180	----	----	0.0178	4.25	0.997	1.00	7.7	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	2	LinF	0.0404	0.0404	0.0363	0.0325	0.0319	0.0307	----	----	0.0354	4.61	1.00	1.00	12	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	3	Avg	0.0723	0.0745	0.0688	0.0622	0.0635	0.0625	----	----	0.0673	5.07	1.00	1.00	8.0	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	4	Avg	0.0236	0.0235	0.0229	0.0203	0.0213	0.0212	----	----	0.0222	5.30	1.00	1.00	6.2	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	5	LinF	0.0604	0.0590	0.0570	0.0480	0.0500	0.0479	----	----	0.0538	5.42	0.999	0.999	11	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	1	LinF	0.0523	0.0495	0.0457	0.0409	0.0412	0.0390	----	----	0.0448	6.90	0.999	1.00	12	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	2	Avg	0.0580	0.0588	0.0545	0.0503	0.0509	0.0491	----	----	0.0536	7.15	1.00	1.00	7.7	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	3	Avg	0.0279	0.0290	0.0283	0.0256	0.0278	0.0281	----	----	0.0278	7.34	0.999	1.00	4.1	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	4	Avg	0.0396	0.0379	0.0364	0.0337	0.0351	0.0341	----	----	0.0362	7.92	1.00	1.00	6.4	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	5	Avg	0.0665	0.0654	0.0648	0.0593	0.0651	0.0660	----	----	0.0646	8.63	0.999	1.00	4.1	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1221	1	1	Avg	----	----	----	----	----	----	----	----	0.00933	4.07	-1	-1	Lvl=10	500.0							
Aroclor-1221	1	2	Avg	----	----	----	----	----	----	----	----	0.00598	4.20	-1	-1	Lvl=10	500.0							
Aroclor-1221	1	3	Avg	----	----	----	----	----	----	----	----	0.0294	4.26	-1	-1	Lvl=10	500.0							
Aroclor-1232	1	1	Avg	----	----	----	----	----	----	----	----	0.0177	4.25	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	2	Avg	----	----	----	----	----	----	----	----	0.0167	4.61	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	3	Avg	----	----	----	----	----	----	----	----	0.0289	5.07	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	4	Avg	----	----	----	----	----	----	----	----	0.0134	5.20	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	5	Avg	----	----	----	----	----	----	----	----	0.0130	5.65	-1	-1	Lvl=7	500.0							
Aroclor-1242	1	1	Avg	----	----	----	----	----	----	----	----	0.0194	4.25	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	2	Avg	----	----	----	----	----	----	----	----	0.0364	4.60	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	3	Avg	----	----	----	----	----	----	----	----	0.0701	5.07	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	4	Avg	----	----	----	----	----	----	----	----	0.0554	5.42	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	5	Avg	----	----	----	----	----	----	----	----	0.0297	5.65	-1	-1	Lvl=8	500.0							
Aroclor-1248	1	1	Avg	----	----	----	----	----	----	----	----	0.0143	4.61	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	2	Avg	----	----	----	----	----	----	----	----	0.0279	5.08	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	3	Avg	----	----	----	----	----	----	----	----	0.0633	5.42	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	4	Avg	----	----	----	----	----	----	----	----	0.0338	5.76	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	5	Avg	----	----	----	----	----	----	----	----	0.0399	6.35	-1	-1	Lvl=9	500.0							
Aroclor-1254	1	1	Avg	----	----	----	----	----	----	----	----	0.0166	6.55	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	2	Avg	----	----	----	----	----	----	----	----	0.0608	6.75	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	3	Avg	----	----	----	----	----	----	----	----	0.0365	6.91	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	4	Avg	----	----	----	----	----	----	----	----	0.0502	7.04	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	5	Avg	----	----	----	----	----	----	----	----	0.0188	7.41	-1	-1	Lvl=10	500.0							
Aroclor-1262	1	1	Avg	----	----	----	----	----	----	----	----	0.0639	7.58	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	2	Avg	----	----	----	----	----	----	----	----	0.0375	8.57	-1	-1	Lvl=11	500.0							

Avg Rsd Col 1: 7.42 Avg Rsd Col 2: 9.85

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

8081617 0124

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G110264.D	CAL 1660@50PPB	07/24/18 12:38	2	3G110265.D	CAL 1660@200PPB	07/24/18 12:53
3	3G110266.D	CAL 1660@500PPB	07/24/18 13:08	4	3G110267.D	CAL 1660@1000PPB	07/24/18 13:23
5	3G110268.D	CAL 1660@2000PPB	07/24/18 13:38	6	3G110269.D	CAL 1660@4000PPB	07/24/18 13:53
7	3G110259.D	CAL 3268@500PPB	07/24/18 11:24	8	3G110260.D	CAL 1242@500PPB	07/24/18 11:39
9	3G110261.D	CAL 1248@500PPB	07/24/18 11:54	10	3G110262.D	CAL 2154@500PPB	07/24/18 12:09

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aroclor-1262	1	3	Avg	----	----	----	----	----	----	----	----	0.0742	8.63	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	4	Avg	----	----	----	----	----	----	----	----	0.0338	9.32	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	5	Avg	----	----	----	----	----	----	----	----	0.0113	9.67	-1	-1	Lvl=11	500.0							
Aroclor-1268	1	1	Avg	----	----	----	----	----	----	----	----	0.0120	7.93	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	2	Avg	----	----	----	----	----	----	----	----	0.00840	8.24	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	3	Avg	----	----	----	----	----	----	----	----	0.0901	8.82	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	4	Avg	----	----	----	----	----	----	----	----	0.0245	8.92	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	5	Avg	----	----	----	----	----	----	----	----	0.271	9.66	-1	-1	Lvl=7	500.0							
DCB-Surrogate	1	0	Avg	1.0053	0.9545	0.9026	0.8582	0.8635	0.8541	----	----	0.906	9.89	1.00	1.00	6.8	5.00	20.00	50.00	100.0	200.0	400.0		
TCMX-Surrogate	2	0	Avg	1.4471	1.5329	1.4093	1.2887	1.3759	1.3847	----	----	1.41	3.83	1.00	1.00	5.8	5.00	20.00	50.00	100.0	200.0	400.0		
Aroclor-1016	2	1	LinF	0.0402	0.0256	0.0279	0.0235	0.0261	0.0261	----	----	0.0283	4.43	0.999	0.999	21	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	2	Avg	0.0636	0.0591	0.0604	0.0538	0.0536	0.0511	----	----	0.0570	4.84	0.999	1.00	8.5	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	3	Avg	0.1352	0.1461	0.1307	0.1174	0.1201	0.1170	----	----	0.128	5.23	1.00	1.00	9.1	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	4	Avg	0.0520	0.0528	0.0516	0.0488	0.0490	0.0484	----	----	0.0505	5.55	1.00	1.00	3.8	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	5	Avg	0.0375	0.0382	0.0341	0.0333	0.0344	0.0347	----	----	0.0354	5.91	1.00	1.00	5.6	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	1	Avg	0.1035	0.1007	0.0895	0.0881	0.0830	0.0813	----	----	0.0910	7.21	1.00	1.00	10	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	2	Avg	0.1190	0.1353	0.1221	0.1163	0.1153	0.1161	----	----	0.121	7.30	1.00	1.00	6.3	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	3	LinF	0.0476	0.0734	0.0616	0.0473	0.0550	0.0585	----	----	0.0573	7.93	0.996	0.998	17	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	4	Avg	0.0881	0.1063	0.0957	0.0953	0.0929	0.0950	----	----	0.0956	8.28	1.00	1.00	6.2	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	5	LinF	0.1291	0.1037	0.1083	0.0842	0.0904	0.0977	----	----	0.102	8.98	0.997	0.999	15	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1221	2	1	Avg	----	----	----	----	----	----	----	----	0.0167	4.21	-1	-1	Lvl=10	500.0							
Aroclor-1221	2	2	Avg	----	----	----	----	----	----	----	----	0.00918	4.36	-1	-1	Lvl=10	500.0							
Aroclor-1221	2	3	Avg	----	----	----	----	----	----	----	----	0.0332	4.43	-1	-1	Lvl=10	500.0							
Aroclor-1232	2	1	Avg	----	----	----	----	----	----	----	----	0.0263	4.42	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	2	Avg	----	----	----	----	----	----	----	----	0.0282	4.84	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	3	Avg	----	----	----	----	----	----	----	----	0.0666	5.23	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	4	Avg	----	----	----	----	----	----	----	----	0.0199	5.91	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	5	Avg	----	----	----	----	----	----	----	----	0.0186	6.06	-1	-1	Lvl=7	500.0							
Aroclor-1242	2	1	Avg	----	----	----	----	----	----	----	----	0.0283	4.42	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	2	Avg	----	----	----	----	----	----	----	----	0.0679	4.84	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	3	Avg	----	----	----	----	----	----	----	----	0.141	5.22	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	4	Avg	----	----	----	----	----	----	----	----	0.0585	5.55	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	5	Avg	----	----	----	----	----	----	----	----	0.0422	5.91	-1	-1	Lvl=8	500.0							
Aroclor-1248	2	1	Avg	----	----	----	----	----	----	----	----	0.0208	4.84	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	2	Avg	----	----	----	----	----	----	----	----	0.0722	5.23	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	3	Avg	----	----	----	----	----	----	----	----	0.0522	5.55	-1	-1	Lvl=9	500.0							

Avg Rsd Col 1: 7.42 Avg Rsd Col 2: 9.85

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pch/chlordane etc.)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

8081617 0125

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G110264.D	CAL 1660@50PPB	07/24/18 12:38	2	3G110265.D	CAL 1660@200PPB	07/24/18 12:53
3	3G110266.D	CAL 1660@500PPB	07/24/18 13:08	4	3G110267.D	CAL 1660@1000PPB	07/24/18 13:23
5	3G110268.D	CAL 1660@2000PPB	07/24/18 13:38	6	3G110269.D	CAL 1660@4000PPB	07/24/18 13:53
7	3G110259.D	CAL 3268@500PPB	07/24/18 11:24	8	3G110260.D	CAL 1242@500PPB	07/24/18 11:39
9	3G110261.D	CAL 1248@500PPB	07/24/18 11:54	10	3G110262.D	CAL 2154@500PPB	07/24/18 12:09

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aroclor-1248	2	4	Avg	----	----	----	----	----	----	----	----	0.0516	6.06	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	5	Avg	----	----	----	----	----	----	----	----	0.0647	6.20	-1	-1	Lvl=9	500.0							
Aroclor-1254	2	1	Avg	----	----	----	----	----	----	----	----	0.0986	6.41	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	2	Avg	----	----	----	----	----	----	----	----	0.0269	6.75	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	3	Avg	----	----	----	----	----	----	----	----	0.0796	7.15	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	4	Avg	----	----	----	----	----	----	----	----	0.0264	7.67	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	5	Avg	----	----	----	----	----	----	----	----	0.0382	8.34	-1	-1	Lvl=10	500.0							
Aroclor-1262	2	1	Avg	----	----	----	----	----	----	----	----	0.0993	7.71	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	2	Avg	----	----	----	----	----	----	----	----	0.0930	8.87	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	3	Avg	----	----	----	----	----	----	----	----	0.107	8.98	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	4	Avg	----	----	----	----	----	----	----	----	0.107	9.56	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	5	Avg	----	----	----	----	----	----	----	----	0.0263	10.09	-1	-1	Lvl=11	500.0							
Aroclor-1268	2	1	Avg	----	----	----	----	----	----	----	----	0.0182	8.38	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	2	Avg	----	----	----	----	----	----	----	----	0.0307	8.42	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	3	Avg	----	----	----	----	----	----	----	----	0.203	9.30	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	4	Avg	----	----	----	----	----	----	----	----	0.0505	9.46	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	5	Avg	----	----	----	----	----	----	----	----	0.600	10.09	-1	-1	Lvl=7	500.0							
DCB-Surrogate	2	0	Avg	2.1096	1.9164	1.8017	1.7369	1.6880	1.6860	----	----	1.82	10.62	1.00	1.00	9.0	5.00	20.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 7.42 Avg Rsd Col 2: 9.85

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

8081617 0126

Form7
Continuing Calibration

Method: EPA 8082A

Data File:				3G110742.D			3G110750.D			3G110768.D													
Method:				8082			8082			8082													
Calibration Name:				CAL 1660@1000PP			CAL 1660@1000PP			CAL 1660@1000PP													
Calibration Date/Time				08/23/18 11:07			08/23/18 15:09			08/23/18 20:29													
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
TCMX-Surrogate	20	1	0	87.98	100	12.0	107.3	100	7.3	102.2	100	2.2						
Aroclor-1016	20	1	1	919.1	1000	8.1	1018	1000	1.8	952.9	1000	4.7						
Aroclor-1016	20	1	2	1023	1000	2.3	1142	1000	14.2	1081	1000	8.1						
Aroclor-1016	20	1	3	906.8	1000	9.3	1028	1000	2.8	974.5	1000	2.5						
Aroclor-1016	20	1	4	931.7	1000	6.8	1033	1000	3.3	971.7	1000	2.8						
Aroclor-1016	20	1	5	1032	1000	3.2	1147	1000	14.7	1096	1000	9.6						
Aroclor-1260	20	1	1	963	1000	3.7	1098	1000	9.8	1049	1000	4.9						
Aroclor-1260	20	1	2	865.5	1000	13.4	993.1	1000	0.7	953.8	1000	4.6						
Aroclor-1260	20	1	3	867.9	1000	13.2	974.3	1000	2.6	918.3	1000	8.2						
Aroclor-1260	20	1	4	838.0	1000	16.2	956.9	1000	4.3	901.4	1000	9.9						
Aroclor-1260	20	1	5	774.1	1000	22.6*	909.8	1000	9.0	951.6	1000	4.8						
DCB-Surrogate	20	1	0	78.43	100	21.6*	87.94	100	12.1	94.6	100	5.4						
Average Difference	20	1	0			11.0			6.9			5.7						
TCMX-Surrogate	20	2	0	98.93	100	1.1	104.6	100	4.6	96.01	100	4.0						
Aroclor-1016	20	2	1	1123	1000	12.3	1127	1000	12.7	974.5	1000	2.5						
Aroclor-1016	20	2	2	1025	1000	2.5	1070	1000	7.0	955.9	1000	4.4						
Aroclor-1016	20	2	3	996.2	1000	0.4	1044	1000	4.4	932.0	1000	6.8						
Aroclor-1016	20	2	4	1019	1000	1.9	1086	1000	8.6	962.9	1000	3.7						
Aroclor-1016	20	2	5	993.3	1000	0.7	1052	1000	5.2	932.7	1000	6.7						
Aroclor-1260	20	2	1	930.8	1000	6.9	977.4	1000	2.3	903.9	1000	9.6						
Aroclor-1260	20	2	2	950.0	1000	5.0	1005	1000	0.5	938.3	1000	6.2						
Aroclor-1260	20	2	3	982.5	1000	1.8	1054	1000	5.4	996.1	1000	0.4						
Aroclor-1260	20	2	4	908.1	1000	9.2	947.4	1000	5.3	900.8	1000	9.9						
Aroclor-1260	20	2	5	917.7	1000	8.2	1032	1000	3.2	969.8	1000	3.0						
DCB-Surrogate	20	2	0	82.79	100	17.2	90.42	100	9.6	86.61	100	13.4						
Average Difference	20	2	0			5.6			5.7			5.9						

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
RtWindow Summary

Method: EPA 8082A

Data File:			3G110264.D		3G110742.D		3G110750.D					
Calibration Name:			CAL 1660@50PPB		CAL 1660@1000PPB		CAL 1660@1000PPB					
Calibration Date/Time			7/24/2018 12:38:00 PM		8/23/2018 11:07:00 AM		8/23/2018 3:09:00 PM					
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
TCMX-Surrogate	1	0	3.78	(3.72 - 3.84)	3.78	(3.72 - 3.84)	3.78	(3.72 - 3.84)				
Aroclor-1016	1	1	4.25	(4.21 - 4.29)	4.26	(4.22 - 4.30)	4.25	(4.21 - 4.29)				
Aroclor-1016	1	2	4.60	(4.56 - 4.64)	4.61	(4.57 - 4.65)	4.60	(4.56 - 4.64)				
Aroclor-1016	1	3	5.07	(5.03 - 5.11)	5.08	(5.04 - 5.12)	5.07	(5.03 - 5.11)				
Aroclor-1016	1	4	5.30	(5.26 - 5.34)	5.30	(5.26 - 5.34)	5.30	(5.26 - 5.34)				
Aroclor-1016	1	5	5.42	(5.38 - 5.46)	5.42	(5.38 - 5.46)	5.41	(5.37 - 5.45)				
Aroclor-1260	1	1	6.90	(6.86 - 6.94)	6.90	(6.86 - 6.94)	6.90	(6.86 - 6.94)				
Aroclor-1260	1	2	7.15	(7.11 - 7.19)	7.16	(7.12 - 7.20)	7.15	(7.11 - 7.19)				
Aroclor-1260	1	3	7.34	(7.30 - 7.38)	7.35	(7.31 - 7.39)	7.34	(7.30 - 7.38)				
Aroclor-1260	1	4	7.92	(7.88 - 7.96)	7.93	(7.89 - 7.97)	7.92	(7.88 - 7.96)				
Aroclor-1260	1	5	8.63	(8.59 - 8.67)	8.64	(8.60 - 8.68)	8.63	(8.59 - 8.67)				
Aroclor-1221	1	1	4.06	(4.02 - 4.10)								
Aroclor-1221	1	2	4.19	(4.15 - 4.23)								
Aroclor-1221	1	3	4.25	(4.21 - 4.29)								
Aroclor-1232	1	1	4.25	(4.21 - 4.29)								
Aroclor-1232	1	2	4.61	(4.57 - 4.65)								
Aroclor-1232	1	3	5.07	(5.03 - 5.11)								
Aroclor-1232	1	4	5.20	(5.16 - 5.24)								
Aroclor-1232	1	5	5.65	(5.61 - 5.69)								
Aroclor-1242	1	1	4.25	(4.21 - 4.29)								
Aroclor-1242	1	2	4.60	(4.56 - 4.64)								
Aroclor-1242	1	3	5.07	(5.03 - 5.11)								
Aroclor-1242	1	4	5.42	(5.38 - 5.46)								
Aroclor-1242	1	5	5.65	(5.61 - 5.69)								
Aroclor-1248	1	1	4.60	(4.56 - 4.64)								
Aroclor-1248	1	2	5.07	(5.03 - 5.11)								
Aroclor-1248	1	3	5.41	(5.37 - 5.45)								
Aroclor-1248	1	4	5.75	(5.71 - 5.79)								
Aroclor-1248	1	5	6.34	(6.30 - 6.38)								
Aroclor-1254	1	1	6.54	(6.50 - 6.58)								
Aroclor-1254	1	2	6.74	(6.70 - 6.78)								
Aroclor-1254	1	3	6.90	(6.86 - 6.94)								
Aroclor-1254	1	4	7.03	(6.99 - 7.07)								
Aroclor-1254	1	5	7.40	(7.36 - 7.44)								
Aroclor-1262	1	1	7.58	(7.54 - 7.62)								
Aroclor-1262	1	2	8.57	(8.53 - 8.61)								
Aroclor-1262	1	3	8.63	(8.59 - 8.67)								
Aroclor-1262	1	4	9.32	(9.28 - 9.36)								
Aroclor-1262	1	5	9.67	(9.63 - 9.71)								
Aroclor-1268	1	1	7.93	(7.89 - 7.97)								
Aroclor-1268	1	2	8.24	(8.20 - 8.28)								
Aroclor-1268	1	3	8.82	(8.78 - 8.86)								
Aroclor-1268	1	4	8.92	(8.88 - 8.96)								
Aroclor-1268	1	5	9.66	(9.62 - 9.70)								
DCB-Surrogate	1	0	9.89	(9.83 - 9.95)	9.89	(9.83 - 9.95)	9.89	(9.83 - 9.95)				
TCMX-Surrogate	2	0	3.83	(3.77 - 3.89)	3.83	(3.77 - 3.89)	3.83	(3.77 - 3.89)				
Aroclor-1016	2	1	4.42	(4.38 - 4.46)	4.43	(4.39 - 4.47)	4.43	(4.39 - 4.47)				
Aroclor-1016	2	2	4.84	(4.80 - 4.88)	4.84	(4.80 - 4.88)	4.84	(4.80 - 4.88)				
Aroclor-1016	2	3	5.22	(5.18 - 5.26)	5.22	(5.18 - 5.26)	5.22	(5.18 - 5.26)				
Aroclor-1016	2	4	5.55	(5.51 - 5.59)	5.55	(5.51 - 5.59)	5.55	(5.51 - 5.59)				
Aroclor-1016	2	5	5.91	(5.87 - 5.95)	5.91	(5.87 - 5.95)	5.91	(5.87 - 5.95)				
Aroclor-1260	2	1	7.21	(7.17 - 7.25)	7.22	(7.18 - 7.26)	7.22	(7.18 - 7.26)				
Aroclor-1260	2	2	7.30	(7.26 - 7.34)	7.30	(7.26 - 7.34)	7.30	(7.26 - 7.34)				
Aroclor-1260	2	3	7.92	(7.88 - 7.96)	7.93	(7.89 - 7.97)	7.93	(7.89 - 7.97)				
Aroclor-1260	2	4	8.28	(8.24 - 8.32)	8.28	(8.24 - 8.32)	8.28	(8.24 - 8.32)				
Aroclor-1260	2	5	8.98	(8.94 - 9.02)	8.98	(8.94 - 9.02)	8.98	(8.94 - 9.02)				
Aroclor-1221	2	1	4.21	(4.17 - 4.25)								
Aroclor-1221	2	2	4.36	(4.32 - 4.40)								
Aroclor-1221	2	3	4.42	(4.38 - 4.46)								
Aroclor-1232	2	1	4.42	(4.38 - 4.46)								
Aroclor-1232	2	2	4.84	(4.80 - 4.88)								
Aroclor-1232	2	3	5.23	(5.19 - 5.27)								
Aroclor-1232	2	4	5.91	(5.87 - 5.95)								
Aroclor-1232	2	5	6.06	(6.02 - 6.10)								
Aroclor-1242	2	1	4.42	(4.38 - 4.46)								
Aroclor-1242	2	2	4.84	(4.80 - 4.88)								
Aroclor-1242	2	3	5.22	(5.18 - 5.26)								
Aroclor-1242	2	4	5.55	(5.51 - 5.59)								
Aroclor-1242	2	5	5.91	(5.87 - 5.95)								
Aroclor-1248	2	1	4.84	(4.80 - 4.88)								
Aroclor-1248	2	2	5.22	(5.18 - 5.26)								
Aroclor-1248	2	3	5.54	(5.50 - 5.58)								
Aroclor-1248	2	4	6.05	(6.01 - 6.09)								
Aroclor-1248	2	5	6.19	(6.15 - 6.23)								
Aroclor-1254	2	1	6.41	(6.37 - 6.45)								
Aroclor-1254	2	2	6.75	(6.71 - 6.79)								
Aroclor-1254	2	3	7.15	(7.11 - 7.19)								
Aroclor-1254	2	4	7.67	(7.63 - 7.71)								
Aroclor-1254	2	5	8.34	(8.30 - 8.38)								
Aroclor-1262	2	1	7.71	(7.67 - 7.75)								
Aroclor-1262	2	2	8.87	(8.83 - 8.91)								
Aroclor-1262	2	3	8.98	(8.94 - 9.02)								
Aroclor-1262	2	4	9.56	(9.52 - 9.60)								
Aroclor-1262	2	5	10.09	(10.05 - 10.13)								
Aroclor-1268	2	1	8.38	(8.34 - 8.42)								
Aroclor-1268	2	2	8.42	(8.38 - 8.46)								
Aroclor-1268	2	3	9.30	(9.26 - 9.34)								
Aroclor-1268	2	4	9.46	(9.42 - 9.50)								
Aroclor-1268	2	5	10.09	(10.05 - 10.13)								
DCB-Surrogate	2	0	10.62	(10.56 - 10.68)	10.63	(10.57 - 10.69)	10.63	(10.57 - 10.69)				

Pesticide Data

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD05999-001
Client Id: SS-1
Data File: 5G79357.D
Analysis Date: 08/24/18 05:45
Date Rec/Extracted: 08/16/18-08/23/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.0053	U	7421-93-4	Endrin Aldehyde	0.0053	U
309-00-2	Aldrin	0.0053	U	53494-70-5	Endrin Ketone	0.0053	U
319-84-6	alpha-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
319-85-7	beta-BHC	0.0011	U	76-44-8	Heptachlor	0.0053	U
12789-03-6	Chlordane (Technical)	0.026	U	1024-57-3	Heptachlor Epoxide	0.0053	U
319-86-8	delta-BHC	0.0053	U	72-43-5	Methoxychlor	0.0053	U
60-57-1	Dieldrin	0.0011	U	72-54-8	p,p'-DDD	0.0026	U
959-98-8	Endosulfan I	0.0053	U	72-55-9	p,p'-DDE	0.0026	U
33213-65-9	Endosulfan II	0.0053	U	50-29-3	p,p'-DDT	0.0026	U
1031-07-8	Endosulfan Sulfate	0.0053	U	8001-35-2	Toxaphene	0.026	U
72-20-8	Endrin	0.0053	U	5103-74-2	y-chlordane	0.0053	U
57-74-9	Chlordane (Total)	0.0053	U				

Worksheet #: 477243

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2018\GC_5\Data\08-24-18\
Data File : 5G79357.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24-Aug-18, 05:45:53 (#1); 24-Aug-18, 05:45:52 (#2)
Operator : MS/MLC/ZM
Sample : AD05999-001
Misc : S,PEST
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Aug 27 11:46:28 2018
Quant Method : G:\GCDATA\2018\GC_5\METHODQT\5G_PEST0821.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Aug 21 08:49:23 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.054	6.137	66770518	44527722	72.162m	68.716m
22)DCB-Surrogate	13.011	13.640	51991401	33874882	71.484m	67.175m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2018\GC_5\Data\08-24-18\
Data File : 5G79357.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24-Aug-18, 05:45:53 (#1); 24-Aug-18, 05:45:52 (#2)
Operator : MS/MLC/ZM
Sample : AD05999-001
Misc : S,PEST
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Aug 27 11:46:28 2018
Quant Method : G:\GCDATA\2018\GC_5\METHODQT\5G_PEST0821.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Aug 21 08:49:23 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

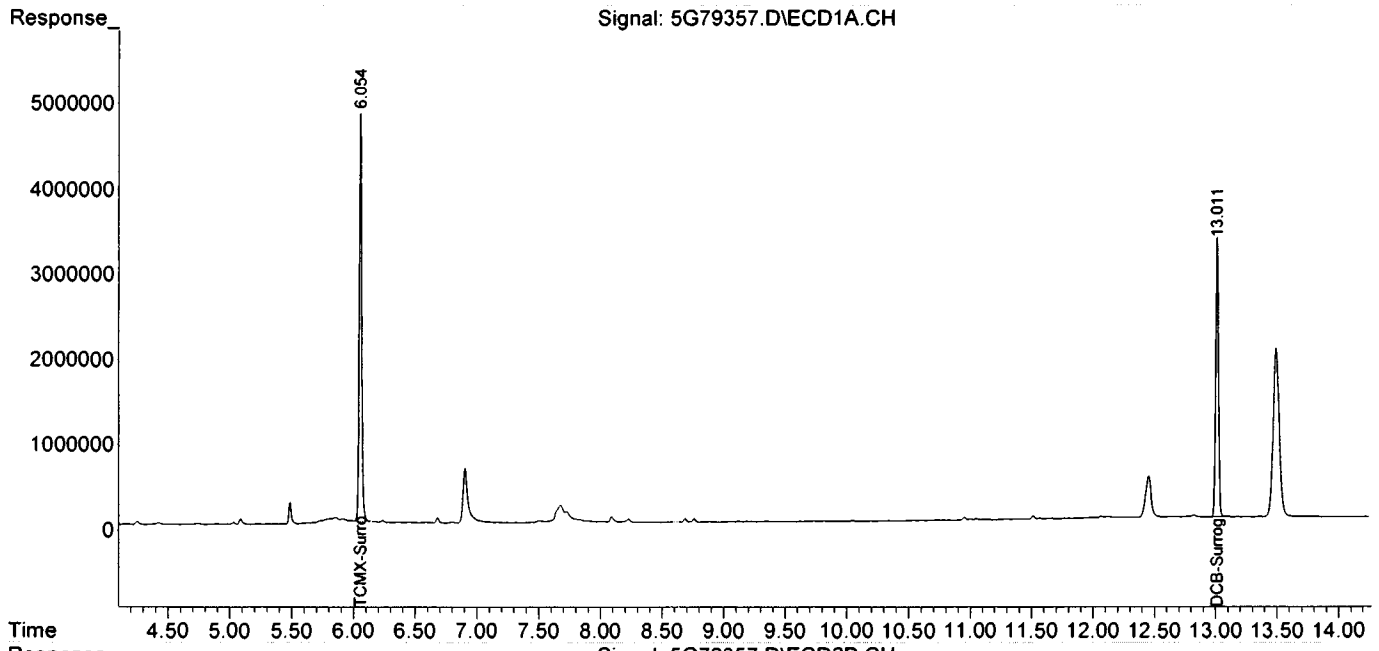

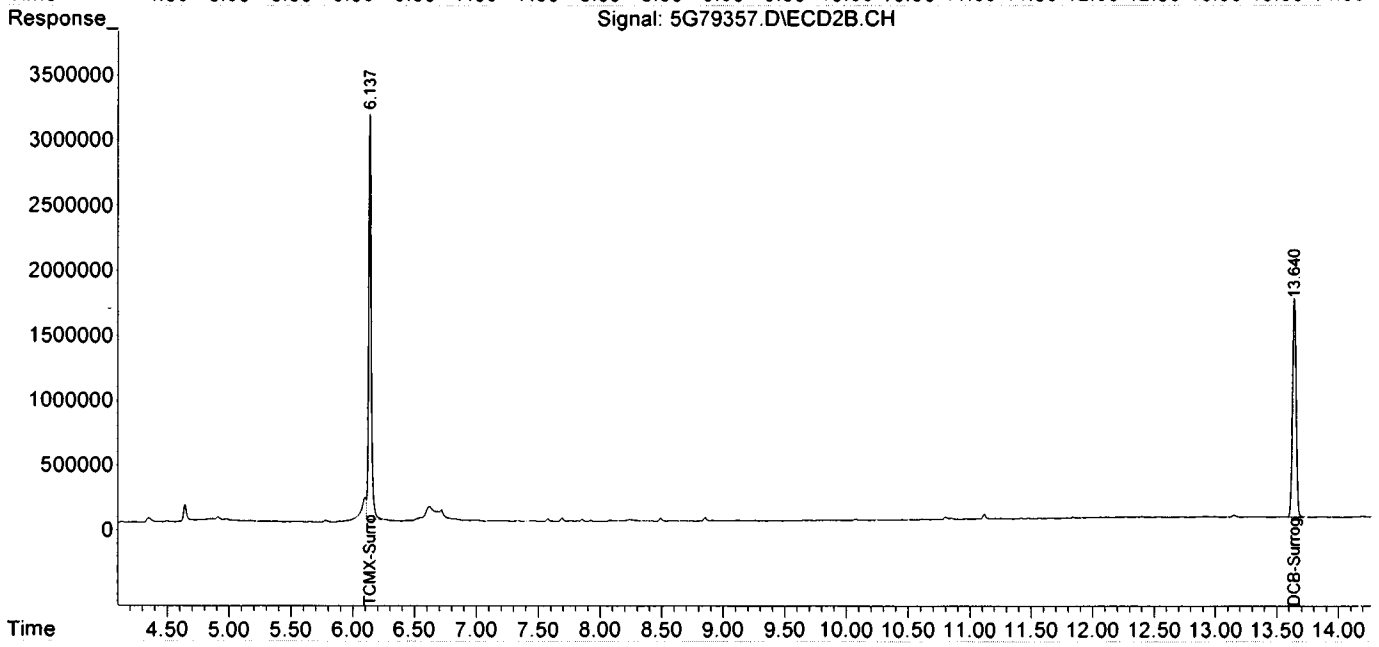

Form1

ORGANICS PESTICIDE REPORT

Sample Number: SMB69976
Client Id:
Data File: 6G91521.D
Analysis Date: 08/23/18 13:43
Date Rec/Extracted: NA-08/23/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.0050	U	7421-93-4	Endrin Aldehyde	0.0050	U
309-00-2	Aldrin	0.0050	U	53494-70-5	Endrin Ketone	0.0050	U
319-84-6	alpha-BHC	0.0010	U	58-89-9	gamma-BHC	0.0010	U
319-85-7	beta-BHC	0.0010	U	76-44-8	Heptachlor	0.0050	U
12789-03-6	Chlordane (Technical)	0.025	U	1024-57-3	Heptachlor Epoxide	0.0050	U
319-86-8	delta-BHC	0.0050	U	72-43-5	Methoxychlor	0.0050	U
60-57-1	Dieldrin	0.0010	U	72-54-8	p,p'-DDD	0.0025	U
959-98-8	Endosulfan I	0.0050	U	72-55-9	p,p'-DDE	0.0025	U
33213-65-9	Endosulfan II	0.0050	U	50-29-3	p,p'-DDT	0.0025	U
1031-07-8	Endosulfan Sulfate	0.0050	U	8001-35-2	Toxaphene	0.025	U
72-20-8	Endrin	0.0050	U	5103-74-2	y-chlordane	0.0050	U

Worksheet #: 477243

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2018\GC_6\Data\08-23-18\
Data File : 6G91521.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2018 13:43
Operator : MS/ZM/MLC
Sample : SMB69976
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 23 15:36:17 2018
Quant Method : G:\GCDATA\2018\GC_6\METHODQT\6G_P0822.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Aug 22 13:58:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	4.513	4.671	1025859	331600	75.367	71.398
22)DCB-Surrogate	11.682	12.465	1145711	393861	83.279	78.367

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2018\GC_6\Data\08-23-18\
Data File : 6G91521.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2018 13:43
Operator : MS/ZM/MLC
Sample : SMB69976
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 23 15:36:17 2018
Quant Method : G:\GCDATA\2018\GC_6\METHODQT\6G_P0822.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Aug 22 13:58:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

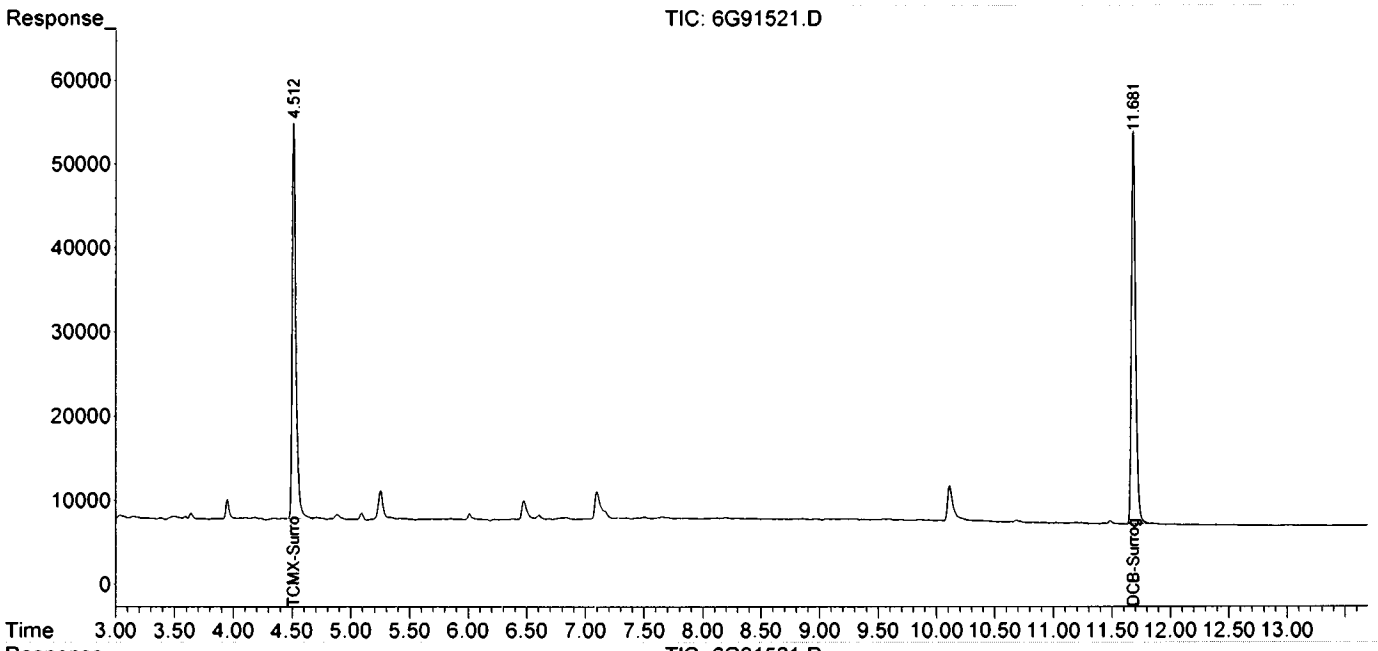

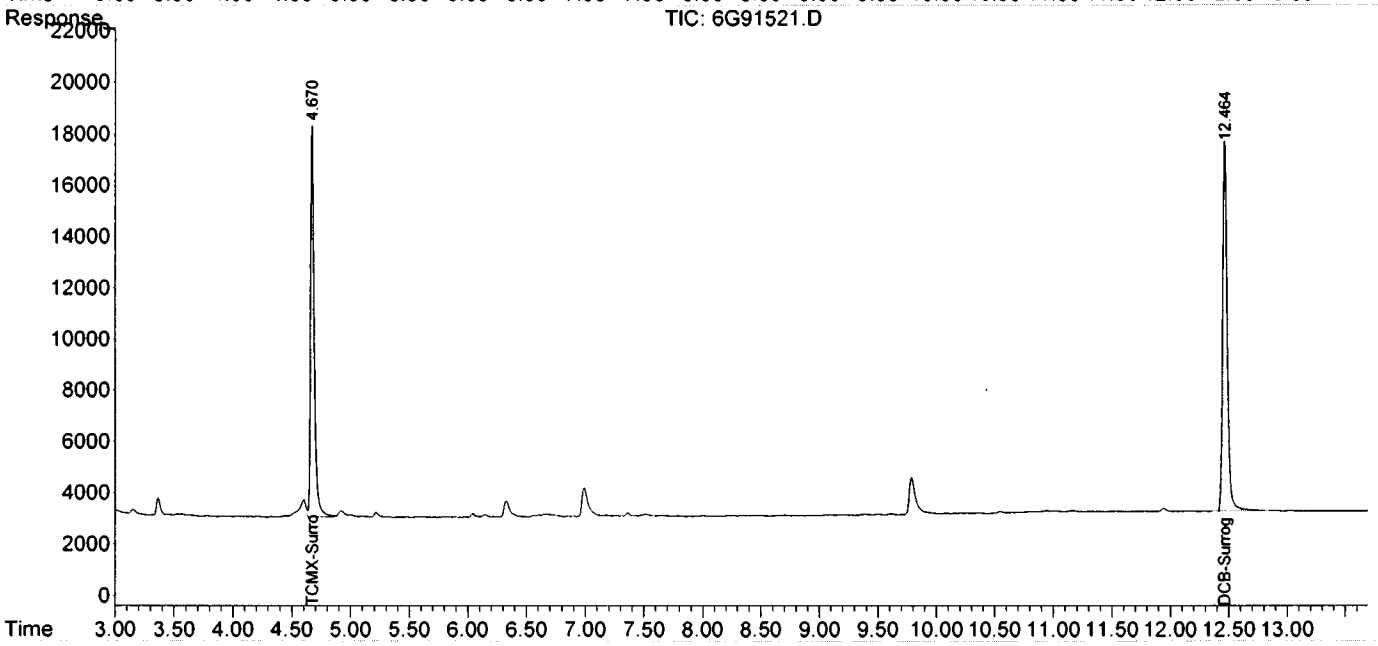

FORM2

Surrogate Recovery

Method: EPA 8081B

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column1 S3 Recov	Column2 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
6G91521.D	SMB69976	S	08/23/18 13:43	1		75	71	83	78		
5G79357.D	AD05999-001	S	08/24/18 05:45	1		72	69	71	67		
6G91556.D	AD05999-001(MS)	S	08/24/18 09:57	1		91	83	94	90		
6G91557.D	AD05999-001(MSD)	S	08/24/18 10:14	1		96	91	100	97		
6G91560.D	SMB69976(MS)	S	08/24/18 11:07	1		92	85	94	90		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8081B

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	37-141
S2=TCMX-Surrogate	100	37-141
S3=DCB-Surrogate	100	33-146
S4=DCB-Surrogate	100	33-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69976

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G91560.D	SMB69976(MS)	8/24/2018 11:07:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	75.66	0	100	76	60	130
gamma-BHC	1	73.14	0	100	73	60	130
beta-BHC	1	100.06	0	100	100	60	130
Heptachlor	1	90.51	0	100	91	60	130
delta-BHC	1	71.2	0	100	71	60	130
Aldrin	1	76.71	0	100	77	70	130
Heptachlor Epoxide	1	83.91	0	100	84	70	130
y-chlordane	1	80.87	0	100	81	70	130
a-chlordane	1	82.84	0	100	83	70	130
Endosulfan I	1	89.46	0	100	89	70	130
p,p'-DDE	1	76.95	0	100	77	70	130
Dieldrin	1	83.51	0	100	84	70	130
Endrin	1	90.18	0	100	90	70	130
p,p'-DDD	1	84.27	0	100	84	70	130
Endosulfan II	1	81.76	0	100	82	70	130
p,p'-DDT	1	77.83	0	100	78	70	130
Endrin Aldehyde	1	75.85	0	100	76	10	130
Endosulfan Sulfate	1	87.76	0	100	88	70	130
Methoxychlor	1	93.21	0	100	93	60	130
Endrin Ketone	1	80.85	0	100	81	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69976

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G91556.D	AD05999-001(MS)	8/24/2018 9:57:00 AM
Non Spike(If applicable):	5G79357.D	AD05999-001	8/24/2018 5:45:53 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	80.46	0	100	80	60	130
gamma-BHC	1	77.39	0	100	77	60	130
beta-BHC	1	98.91	0	100	99	60	130
Heptachlor	1	92.14	0	100	92	60	130
delta-BHC	1	77.59	0	100	78	60	130
Aldrin	1	82.37	0	100	82	70	130
Heptachlor Epoxide	1	91.95	0	100	92	70	130
y-chlordane	1	87.42	0	100	87	70	130
a-chlordane	1	88.89	0	100	89	70	130
Endosulfan I	1	96.46	0	100	96	70	130
p,p'-DDE	1	83.8	0	100	84	70	130
Dieldrin	1	90.26	0	100	90	70	130
Endrin	1	98.87	0	100	99	70	130
p,p'-DDD	1	90.97	0	100	91	70	130
Endosulfan II	1	86.9	0	100	87	70	130
p,p'-DDT	1	82.36	0	100	82	70	130
Endrin Aldehyde	1	82.81	0	100	83	10	130
Endosulfan Sulfate	1	93.52	0	100	94	70	130
Methoxychlor	1	95.94	0	100	96	60	130
Endrin Ketone	1	90.06	0	100	90	70	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G91557.D	AD05999-001(MSD)	8/24/2018 10:14:00 AM
Non Spike(If applicable):	5G79357.D	AD05999-001	8/24/2018 5:45:53 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	82.42	0	100	82	60	130
gamma-BHC	1	80.19	0	100	80	60	130
beta-BHC	1	100.53	0	100	101	60	130
Heptachlor	1	95.91	0	100	96	60	130
delta-BHC	1	80.22	0	100	80	60	130
Aldrin	1	84.73	0	100	85	70	130
Heptachlor Epoxide	1	94.31	0	100	94	70	130
y-chlordane	1	89.97	0	100	90	70	130
a-chlordane	1	91.55	0	100	92	70	130
Endosulfan I	1	98.73	0	100	99	70	130
p,p'-DDE	1	85.52	0	100	86	70	130
Dieldrin	1	92.41	0	100	92	70	130
Endrin	1	100.01	0	100	100	70	130
p,p'-DDD	1	92.84	0	100	93	70	130
Endosulfan II	1	89.96	0	100	90	70	130
p,p'-DDT	1	83.86	0	100	84	70	130
Endrin Aldehyde	1	85.16	0	100	85	10	130
Endosulfan Sulfate	1	94.4	0	100	94	70	130
Methoxychlor	1	98.78	0	100	99	60	130
Endrin Ketone	1	88.41	0	100	88	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: SMB69976

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G91557.D	AD05999-001(MSD)	8/24/2018 10:14:00 AM
Duplicate(If applicable):	6G91556.D	AD05999-001(MS)	8/24/2018 9:57:00 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
alpha-BHC	1	82.42	80.46	2.4	40
gamma-BHC	1	80.19	77.39	3.6	40
beta-BHC	1	100.53	98.91	1.6	40
Heptachlor	1	95.91	92.14	4	40
delta-BHC	1	80.22	77.59	3.3	40
Aldrin	1	84.73	82.37	2.8	40
Heptachlor Epoxide	1	94.31	91.95	2.5	40
y-chlordane	1	89.97	87.42	2.9	40
a-chlordane	1	91.55	88.89	2.9	40
Endosulfan I	1	98.73	96.46	2.3	40
p,p'-DDE	1	85.52	83.8	2	40
Dieldrin	1	92.41	90.26	2.4	40
Endrin	1	100.01	98.87	1.1	40
p,p'-DDD	1	92.84	90.97	2	40
Endosulfan II	1	89.96	86.9	3.5	40
p,p'-DDT	1	83.86	82.36	1.8	40
Endrin Aldehyde	1	85.16	82.81	2.8	40
Endosulfan Sulfate	1	94.4	93.52	0.94	40
Methoxychlor	1	98.78	95.94	2.9	40
Endrin Ketone	1	88.41	90.06	1.8	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: SMB69976
Blank Data File: 6G91521.D
Matrix: Soil

Blank Analysis Date: 08/23/18 13:43
Blank Extraction Date: 08/23/18
(If Applicable)
Method: EPA 8081B

Sample Number	Data File	Analysis Date
AD05999-001	5G79357.D	08/24/18 05:45
SMB69976(MS)	6G91560.D	08/24/18 11:07
AD05999-001(MSD	6G91557.D	08/24/18 10:14
AD05999-001(MS)	6G91556.D	08/24/18 09:57

Form 5

Method: EPA 8081B
Instrument: GC_5 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
5G79239.D	CAL EVAL	08/20/18 23:31	Soil					
5G79240.D	EVAL	08/20/18 23:49	Soil					
5G79241.D	CAL PEST@50PPB	08/21/18 00:07	Soil	5G79242.	13.0162	0.0061	13.6455	0.0066
5G79242.D	CAL PEST@2PPB	08/21/18 00:25	Soil	5G79242.	13.0170	0	13.6464	0
5G79243.D	CAL PEST@10PPB	08/21/18 00:44	Soil	5G79242.	13.0173	0.0023	13.6462	0.0015
5G79244.D	2PPB	08/21/18 01:02	Soil	5G79242.	13.0172	0.0015	13.6471	0.0051
5G79245.D	CAL PEST@100PPB	08/21/18 01:20	Soil	5G79242.	13.0148	0.0169	13.6438	0.0191
5G79246.D	CAL PEST@200PPB	08/21/18 01:38	Soil	5G79242.	13.0138	0.0246	13.6434	0.022
5G79247.D	CAL PEST@400PPB	08/21/18 01:56	Soil	5G79242.	13.0147	0.0177	13.6430	0.0249
5G79248.D	CAL CHLOR@100PPB	08/21/18 02:15	Soil	5G79242.	13.0177	0.0054	13.6472	0.0059
5G79249.D	CAL TOX@500PPB	08/21/18 02:33	Soil	5G79242.	13.0155	0.0115	13.6458	0.0044
5G79250.D	ICV	08/21/18 02:51	Soil	5G79242.	13.0165	0.0038	13.6455	0.0066
5G79251.D	AD05993-002	08/21/18 03:09	Soil	5G79242.	13.0121	0.0377	13.6404	0.044
5G79252.D	AD05993-003	08/21/18 03:27	Soil	5G79242.	13.0114	0.043	13.6391	0.0535
5G79253.D	AD05993-004	08/21/18 03:45	Soil	5G79242.	13.0121	0.0377	13.6404	0.044
5G79254.D	AD05993-005	08/21/18 04:04	Soil	5G79242.	13.0124	0.0353	13.6410	0.0396
5G79255.D	AD05993-008	08/21/18 04:22	Soil	5G79242.	13.0124	0.0353	13.6411	0.0388
5G79256.D	AD05993-010	08/21/18 04:40	Soil	5G79242.	13.0125	0.0346	13.6411	0.0388
5G79257.D	AD05993-013	08/21/18 04:58	Soil	5G79242.	13.0116	0.0415	13.6406	0.0425
5G79258.D	AD06009-006	08/21/18 05:16	Soil	5G79242.	13.0101	0.053	13.6388	0.0557
5G79259.D	AD06031-001	08/21/18 05:34	Soil	5G79242.	13.0127	0.033	13.6410	0.0396
5G79260.D	AD06031-005	08/21/18 05:52	Soil	5G79242.	13.0128	0.0323	13.6405	0.0432
5G79261.D	AD06031-014	08/21/18 06:11	Soil	5G79242.	13.0119	0.0392	13.6402	0.0454
5G79262.D	AD06031-016	08/21/18 06:29	Soil	5G79242.	13.0122	0.0369	13.6413	0.0374
5G79263.D	AD06031-018	08/21/18 06:47	Soil	5G79242.	13.0120	0.0384	13.6414	0.0366
5G79264.D	AD06031-012	08/21/18 07:05	Soil	5G79242.	13.0112	0.0446	13.6381	0.0608
5G79265.D	CAL EVAL	08/21/18 09:02	Soil					
5G79266.D	CAL PEST@200PPB	08/21/18 09:23	Soil	5G79242.	13.0137	0.0254	13.6366	0.0718

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B
Instrument: GC_6 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
6G91474.D	CAL EVAL	08/22/18 10:49	Soil					
6G91475.D	CAL PEST@50PPB	08/22/18 11:12	Soil	6G91477.	11.6873	0.0205	12.4674	0.0008
6G91476.D	CAL PEST@10PPB	08/22/18 11:30	Soil	6G91477.	11.6852	0.0026	12.4684	0.0072
6G91477.D	CAL PEST@2PPB	08/22/18 11:47	Soil	6G91477.	11.6849	0	12.4675	0
6G91478.D	CAL PEST@100PPB	08/22/18 12:05	Soil	6G91477.	11.6833	0.0137	12.4681	0.0048
6G91479.D	CAL PEST@200PPB	08/22/18 12:23	Soil	6G91477.	11.6851	0.0017	12.4676	0.0008
6G91480.D	CAL PEST@400PPB	08/22/18 12:40	Soil	6G91477.	11.6847	0.0017	12.4684	0.0072
6G91481.D	CAL CHLOR@100PPB	08/22/18 12:58	Soil	6G91477.	11.6849	0	12.4694	0.0152
6G91482.D	CAL TOX@500PPB	08/22/18 13:16	Soil	6G91477.	11.6862	0.0111	12.4698	0.0184
6G91483.D	ICV	08/22/18 13:33	Soil	6G91477.	11.6846	0.0026	12.4684	0.0072
6G91484.D	WMB69967(MS)	08/22/18 14:07	Aqueous	6G91477.	11.6903	0.0462	12.4684	0.0072
6G91485.D	SMB69966(MS)	08/22/18 14:24	Soil	6G91477.	11.6851	0.0017	12.4680	0.004
6G91486.D	SMB69953(MS)	08/22/18 14:42	Soil	6G91477.	11.6862	0.0111	12.4688	0.0104
6G91487.D	SMB69966	08/22/18 15:00	Soil	6G91477.	11.6855	0.0051	12.4676	0.0008
6G91488.D	AD06064-001(T)(MS)	08/22/18 15:17	Aqueous	6G91477.	11.6846	0.0026	12.4686	0.0088
6G91489.D	AD06064-001(T)(MSD)	08/22/18 15:35	Aqueous	6G91477.	11.6856	0.006	12.4689	0.0112
6G91490.D	AD06064-001(T)	08/22/18 15:53	Aqueous	6G91477.	11.6856	0.006	12.4701	0.0209
6G91491.D	AD06064-002(T)	08/22/18 16:10	Aqueous	6G91477.	11.6861	0.0103	12.4688	0.0104
6G91492.D	AD06064-003(T)	08/22/18 16:28	Aqueous	6G91477.	11.6858	0.0077	12.4698	0.0184
6G91493.D	EF-1-V-285748(8/21)	08/22/18 16:46	Aqueous	6G91477.	11.6862	0.0111	12.4696	0.0168
6G91494.D	AD06022-001	08/22/18 17:03	Aqueous	6G91477.	11.6860	0.0094	12.4698	0.0184
6G91495.D	AD06022-003	08/22/18 17:21	Aqueous	6G91477.	11.6864	0.0128	12.4693	0.0144
6G91496.D	AD06057-001	08/22/18 17:38	Aqueous	6G91477.	11.6854	0.0043	12.4687	0.0096
6G91497.D	CAL PEST@200PPB	08/22/18 18:38	Aqueous	6G91477.	11.6852	0.0026	12.4685	0.008

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B
Instrument: GC_6 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
6G91513.D	CAL EVAL	08/23/18 08:34	Aqueous					
6G91514.D	CAL PEST@200PPB	08/23/18 09:08	Aqueous	6G91514.	11.6861	0	12.4634	0
6G91515.D	AD06049-001(MS)	08/23/18 09:49	Soil	6G91514.	11.6860	0.0009	12.4621	0.0104
6G91516.D	AD06049-001(MSD)	08/23/18 10:07	Soil	6G91514.	11.6817	0.0377	12.4630	0.0032
6G91517.D	69972MBS	08/23/18 12:32	Soil	6G91514.	11.6853	0.0068	12.4621	0.0104
6G91518.D	69976MBS	08/23/18 12:50	Soil	6G91514.	11.6817	0.0377	12.4627	0.0056
6G91519.D	69978MBS	08/23/18 13:07	Soil	6G91514.	11.6815	0.0394	12.4643	0.0072
6G91520.D	SMB69972	08/23/18 13:25	Soil	6G91514.	11.6816	0.0385	12.4646	0.0096
6G91521.D	SMB69976	08/23/18 13:43	Soil	6G91514.	11.6816	0.0385	12.4646	0.0096
6G91522.D	SMB69978	08/23/18 14:00	Soil	6G91514.	11.6816	0.0385	12.4647	0.0104
6G91523.D	SMB69971	08/23/18 14:18	Soil	6G91514.	11.6818	0.0368	12.4647	0.0104
6G91524.D	69971MBS	08/23/18 14:35	Soil	6G91514.	11.6821	0.0342	12.4654	0.016
6G91525.D	AD06097-001	08/23/18 14:53	Soil	6G91514.	11.6819	0.0359	12.4666	0.0257
6G91526.D	AD06098-002	08/23/18 15:11	Soil	6G91514.	11.6815	0.0394	12.4649	0.012
6G91527.D	AD06063-002	08/23/18 15:28	Soil	6G91514.	11.6832	0.0248	12.4660	0.0209
6G91528.D	AD06097-001	08/23/18 15:46	Soil	6G91514.	11.6834	0.0231	12.4663	0.0233
6G91529.D	CAL PEST@200PPB	08/23/18 17:08	Soil	6G91514.	11.6847	0.012	12.4640	0.0048

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B

Instrument: GC_5 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
5G79337.D	CAL EVAL	08/23/18 23:42	Soil					
5G79338.D	EVAL	08/24/18 00:00	Soil					
5G79339.D	100PPB	08/24/18 00:18	Soil					
5G79340.D	CAL PEST@200PPB	08/24/18 00:36	Soil	5G79340.	13.0149	0	13.6431	0
5G79341.D	AD06049-044	08/24/18 00:55	Soil	5G79340.	13.0111	0.0292	13.6399	0.0235
5G79342.D	AD06049-046	08/24/18 01:13	Soil	5G79340.	13.0102	0.0361	13.6401	0.022
5G79343.D	AD06049-047	08/24/18 01:31	Soil	5G79340.	13.0105	0.0338	13.6405	0.0191
5G79344.D	AD06049-048	08/24/18 01:49	Soil	5G79340.	13.0107	0.0323	13.6387	0.0323
5G79345.D	AD06049-049	08/24/18 02:07	Soil	5G79340.	13.0110	0.03	13.6386	0.033
5G79346.D	AD06049-050	08/24/18 02:25	Soil	5G79340.	13.0102	0.0361	13.6383	0.0352
5G79347.D	AD06049-035	08/24/18 02:44	Soil	5G79340.	13.0105	0.0338	13.6386	0.033
5G79348.D	AD06049-036	08/24/18 03:02	Soil	5G79340.	13.0102	0.0361	13.6385	0.0337
5G79349.D	AD06049-037	08/24/18 03:20	Soil	5G79340.	13.0115	0.0261	13.6395	0.0264
5G79350.D	AD06049-038	08/24/18 03:38	Soil	5G79340.	13.0109	0.0307	13.6389	0.0308
5G79351.D	AD06049-039	08/24/18 03:56	Soil	5G79340.	13.0096	0.0407	13.6405	0.0191
5G79352.D	AD06049-040	08/24/18 04:14	Soil	5G79340.	13.0113	0.0277	13.6397	0.0249
5G79353.D	AD06051-002	08/24/18 04:33	Soil	5G79340.	13.0120	0.0223	13.6404	0.0198
5G79354.D	AD06051-003	08/24/18 04:51	Soil	5G79340.	13.0109	0.0307	13.6402	0.0213
5G79355.D	AD06051-004	08/24/18 05:09	Soil	5G79340.	13.0110	0.03	13.6405	0.0191
5G79356.D	AD06051-005	08/24/18 05:27	Soil	5G79340.	13.0119	0.0231	13.6404	0.0198
5G79357.D	AD05999-001	08/24/18 05:45	Soil	5G79340.	13.0113	0.0277	13.6403	0.0205
5G79358.D	AD06051-001	08/24/18 06:04	Soil	5G79340.	13.0101	0.0369	13.6400	0.0227
5G79359.D	AD06049-026	08/24/18 06:22	Soil	5G79340.	13.0098	0.0392	13.6390	0.0301
5G79360.D	AD06049-028	08/24/18 06:40	Soil	5G79340.	13.0109	0.0307	13.6397	0.0249
5G79361.D	CAL EVAL	08/24/18 08:55	Soil					
5G79362.D	CAL PEST@200PPB	08/24/18 09:32	Soil	5G79340.	13.0129	0.0154	13.6324	0.0785
5G79363.D	AD06049-029	08/24/18 09:58	Soil	5G79362.	13.0114	0.0115	13.6311	0.0095
5G79364.D	AD06049-030	08/24/18 10:16	Soil	5G79362.	13.0116	0.01	13.6386	0.0455
5G79365.D	AD06049-031	08/24/18 10:35	Soil	5G79362.	13.0103	0.02	13.6381	0.0418
5G79366.D	AD06049-032	08/24/18 10:53	Soil	5G79362.	13.0119	0.0077	13.6403	0.0579
5G79367.D	AD06049-041	08/24/18 11:11	Soil	5G79362.	13.0101	0.0215	13.6387	0.0462
5G79368.D	AD06049-042	08/24/18 11:29	Soil	5G79362.	13.0114	0.0115	13.6393	0.0506
5G79369.D	AD06049-043	08/24/18 11:47	Soil	5G79362.	13.0098	0.0238	13.6396	0.0528
5G79370.D	AD06102-002(MS)	08/24/18 12:05	Soil	5G79362.	13.0142	0.01	13.6406	0.0601
5G79371.D	AD06102-002(MSD)	08/24/18 12:24	Soil	5G79362.	13.0137	0.0061	13.6410	0.0631
5G79372.D	AD06102-002	08/24/18 12:42	Soil	5G79362.	13.0144	0.0115	13.6416	0.0675
5G79373.D	AD06126-003	08/24/18 13:00	Soil	5G79362.	13.0121	0.0061	13.6388	0.0469
5G79374.D	AD06066-001	08/24/18 13:18	Soil	5G79362.	13.0116	0.01	13.6391	0.0491
5G79375.D	CAL PEST@200PPB	08/24/18 14:29	Soil	5G79362.	13.0114	0.0115	13.6388	0.0469

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B

Instrument: GC_6 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
6G91530.D	CAL EVAL	08/23/18 23:46	Soil					
6G91531.D	EVAL	08/24/18 00:04	Soil					
6G91532.D	100PPB	08/24/18 00:21	Soil					
6G91533.D	CAL PEST@200PPB	08/24/18 00:39	Soil	6G91533.	11.6775	0	12.4609	0
6G91534.D	MBS DUP	08/24/18 00:56	Soil	6G91533.	11.6775	0	12.4610	0.0008
6G91535.D	MBS DUP	08/24/18 01:14	Soil	6G91533.	11.6774	0.0009	12.4620	0.0088
6G91536.D	AD06078-009	08/24/18 01:31	Soil	6G91533.	11.6773	0.0017	12.4615	0.0048
6G91537.D	AD06059-001	08/24/18 01:49	Soil	6G91533.	11.6763	0.0103	12.4541	0.0546
6G91538.D	AD06059-002	08/24/18 02:06	Soil	6G91533.	11.6772	0.0026	12.4519	0.0723
6G91539.D	AD06047-001	08/24/18 02:24	Soil	6G91533.	11.6773	0.0017	12.4544	0.0522
6G91540.D	AD06047-002	08/24/18 02:41	Soil	6G91533.	11.6770	0.0043	12.4597	0.0096
6G91541.D	AD06075-001	08/24/18 02:59	Soil	6G91533.	11.6765	0.0086	12.4596	0.0104
6G91542.D	AD06075-003	08/24/18 03:16	Soil	6G91533.	11.6771	0.0034	12.4577	0.0257
6G91543.D	AD06075-005	08/24/18 03:34	Soil	6G91533.	11.6775	0	12.4606	0.0024
6G91544.D	AD06075-007	08/24/18 03:51	Soil	6G91533.	11.6773	0.0017	12.4609	0
6G91545.D	AD06075-009	08/24/18 04:09	Soil	6G91533.	11.6777	0.0017	12.4603	0.0048
6G91546.D	AD06075-011	08/24/18 04:26	Soil	6G91533.	11.6769	0.0051	12.4603	0.0048
6G91547.D	AD06075-013	08/24/18 04:44	Soil	6G91533.	11.6771	0.0034	12.4584	0.0201
6G91548.D	AD06065-001	08/24/18 05:01	Soil	6G91533.	11.6769	0.0051	12.4594	0.012
6G91549.D	AD06073-001	08/24/18 05:19	Soil	6G91533.	11.6764	0.0094	12.4591	0.0145
6G91550.D	AD06073-002	08/24/18 05:36	Soil	6G91533.	11.6756	0.0163	12.4589	0.0161
6G91551.D	AD06073-003	08/24/18 05:54	Soil	6G91533.	11.6767	0.0069	12.4588	0.0169
6G91552.D	AD06073-004	08/24/18 06:11	Soil	6G91533.	11.6775	0	12.4601	0.0064
6G91553.D	AD06073-005	08/24/18 06:29	Soil	6G91533.	11.6767	0.0069	12.4593	0.0128
6G91554.D	CAL EVAL	08/24/18 09:07	Soil					
6G91555.D	CAL PEST@200PPB	08/24/18 09:29	Soil	6G91533.	11.6800	0.0214	12.4592	0.0136
6G91556.D	AD05999-001(MS)	08/24/18 09:57	Soil	6G91555.	11.6817	0.0145	12.4607	0.012
6G91557.D	AD05999-001(MSD)	08/24/18 10:14	Soil	6G91555.	11.6779	0.018	12.4604	0.0096
6G91558.D	SMB69971(MS)	08/24/18 10:32	Soil	6G91555.	11.6786	0.012	12.4613	0.0169
6G91559.D	SMB69972(MS)	08/24/18 10:49	Soil	6G91555.	11.6778	0.0188	12.4617	0.0201
6G91560.D	SMB69976(MS)	08/24/18 11:07	Soil	6G91555.	11.6782	0.0154	12.4612	0.016
6G91561.D	SMB69978(MS)	08/24/18 11:25	Soil	6G91555.	11.6788	0.0103	12.4616	0.0193
6G91562.D	69983(MS)	08/24/18 11:42	Soil	6G91555.	11.6793	0.006	12.4620	0.0225
6G91563.D	SMB69983	08/24/18 12:00	Soil	6G91555.	11.6782	0.0154	12.4624	0.0257
6G91564.D	AD06051-001(MS)	08/24/18 12:17	Soil	6G91555.	11.6785	0.0128	12.4625	0.0265
6G91565.D	AD06051-001(MSD)	08/24/18 12:35	Soil	6G91555.	11.6802	0.0017	12.4627	0.0281
6G91566.D	AD06049-034	08/24/18 12:52	Soil	6G91555.	11.6782	0.0154	12.4602	0.008
6G91567.D	AD06049-033	08/24/18 13:10	Soil	6G91555.	11.6791	0.0077	12.4614	0.0177
6G91568.D	AD06073-006	08/24/18 13:28	Soil	6G91555.	11.6784	0.0137	12.4617	0.0201
6G91569.D	AD06066-003	08/24/18 13:45	Soil	6G91555.	11.6806	0.0051	12.4629	0.0297
6G91570.D	AD06126-001	08/24/18 14:03	Soil	6G91555.	11.6804	0.0034	12.4628	0.0289
6G91571.D	CAL PEST@200PPB	08/24/18 14:41	Soil	6G91555.	11.6795	0.0043	12.4624	0.0257

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5G79242.D	CAL PEST@2PPB	08/21/18 00:25	2	5G79243.D	CAL PEST@10PPB	08/21/18 00:44
3	5G79241.D	CAL PEST@50PPB	08/21/18 00:07	4	5G79245.D	CAL PEST@100PPB	08/21/18 01:20
5	5G79246.D	CAL PEST@200PPB	08/21/18 01:38	6	5G79247.D	CAL PEST@400PPB	08/21/18 01:56
7	5G79248.D	CAL CHLOR@100PP	08/21/18 02:15	8	5G79249.D	CAL TOX@500PPB	08/21/18 02:33

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	LinF	122.86	106.84	97.479	94.182	98.074	90.951	----	----	102	6.06	0.999	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	1	0	Avg	146.30	133.60	129.21	128.63	140.15	134.33	----	----	135	7.32	0.999	0.999	5.0	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	1	0	LinF	161.25	132.53	129.60	119.96	128.34	121.79	----	----	132	7.84	0.999	0.999	11	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	1	0	LinF	66.947	55.086	50.386	48.715	52.928	50.175	----	----	54.0	8.73	0.999	0.999	12	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	1	0	Avg	59.769	52.804	55.375	51.245	59.108	60.074	----	----	56.4	8.12	0.999	0.999	6.8	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	1	0	Avg	130.64	117.15	108.50	109.85	122.14	116.92	----	----	118	9.04	0.999	0.999	7.0	2.00	10.00	50.00	100.0	200.0	400.0		
Aldrin	1	0	Avg	126.25	112.65	108.62	104.97	113.03	106.34	----	----	112	8.48	0.999	0.999	6.9	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	1	0	LinF	137.25	108.10	96.161	91.810	98.959	93.413	----	----	104	9.28	0.999	0.999	16	2.00	10.00	50.00	100.0	200.0	400.0		
v-chlordane	1	0	Avg	120.86	103.93	98.467	95.284	105.07	100.17	----	----	104	9.67	0.999	0.999	8.7	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	1	0	LinF	119.53	101.70	94.985	91.303	100.17	95.252	----	----	100	9.73	0.999	0.999	10	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	1	0	Avg	98.810	86.894	83.347	80.580	88.159	84.167	----	----	87.0	9.62	0.999	0.999	7.3	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	1	0	Avg	107.48	96.634	96.003	93.129	102.87	98.522	----	----	99.1	9.82	0.999	0.999	5.3	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	1	0	Avg	110.62	98.517	94.757	92.075	101.42	96.376	----	----	99.0	10.05	0.999	0.999	6.6	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	1	0	Avg	72.449	69.790	71.459	67.022	76.280	71.910	----	----	71.5	10.29	0.998	0.999	4.3	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	1	0	LinF	107.75	93.275	78.642	80.791	87.616	83.242	----	----	88.6	10.72	0.999	0.999	12	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	1	0	Avg	100.08	86.928	81.520	80.277	89.251	85.705	----	----	87.3	10.83	0.999	0.999	8.1	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	1	0	LinF	9.1089	22.149	52.903	50.206	65.665	68.575	----	----	44.8	10.92	0.996	0.998	54	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	1	0	Avg	77.710	63.902	59.231	66.484	73.867	71.177	----	----	68.7	11.29	0.999	0.999	9.9	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	1	0	Avg	81.823	67.029	64.673	66.009	74.792	71.622	----	----	71.0	11.64	0.999	0.999	9.2	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	1	0	LinF	11.923	15.389	26.462	25.546	32.298	33.382	----	----	24.2	11.57	0.997	0.998	36	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	1	0	Avg	72.177	70.010	70.408	73.999	84.451	82.394	----	----	75.6	12.11	0.999	0.999	8.3	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	1	0	LinF	102.39	79.119	69.541	67.842	75.702	72.340	----	----	77.8	13.02	0.999	0.999	16	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	1	1	Avg	----	----	----	----	----	----	----	----	5.07	7.92	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	2	Avg	----	----	----	----	----	----	----	----	11.7	9.67	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	3	Avg	----	----	----	----	----	----	----	----	17.4	9.73	-1	-1	Lvl=7	100.0							
Toxaphene	1	1	Avg	----	----	----	----	----	----	----	----	0.465	9.88	-1	-1	Lvl=8	500.0							
Toxaphene	1	2	Avg	----	----	----	----	----	----	----	----	1.70	10.41	-1	-1	Lvl=8	500.0							
Toxaphene	1	3	Avg	----	----	----	----	----	----	----	----	2.16	10.86	-1	-1	Lvl=8	500.0							
Toxaphene	1	4	Avg	----	----	----	----	----	----	----	----	1.64	11.17	-1	-1	Lvl=8	500.0							
Toxaphene	1	5	Avg	----	----	----	----	----	----	----	----	2.43	11.59	-1	-1	Lvl=8	500.0							
TCMX-Surrogate	2	0	Avg	76.417	66.377	61.170	59.660	64.453	60.716	----	----	64.8	6.14	0.999	0.999	9.6	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	2	0	Avg	98.661	93.691	94.979	91.220	98.683	93.668	----	----	95.2	7.15	0.999	0.999	3.1	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	2	0	Avg	88.509	82.093	78.092	77.092	85.202	81.213	----	----	82.0	7.69	0.999	0.999	5.2	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	2	0	LinF	48.444	45.964	37.257	35.627	38.256	36.068	----	----	40.3	7.78	0.999	0.999	14	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	2	0	Avg	59.589	53.234	60.115	55.272	63.248	61.541	----	----	58.8	8.12	0.999	0.999	6.5	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	2	0	LinF	116.67	87.977	75.698	78.561	87.420	83.180	----	----	88.3	8.27	0.999	0.999	17	2.00	10.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 12.43 Avg Rsd Col 2: 13.24

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

8081617 0146

Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5G79242.D	CAL PEST@2PPB	08/21/18 00:25	2	5G79243.D	CAL PEST@10PPB	08/21/18 00:44
3	5G79241.D	CAL PEST@50PPB	08/21/18 00:07	4	5G79245.D	CAL PEST@100PPB	08/21/18 01:20
5	5G79246.D	CAL PEST@200PPB	08/21/18 01:38	6	5G79247.D	CAL PEST@400PPB	08/21/18 01:56
7	5G79248.D	CAL CHLOR@100PP	08/21/18 02:15	8	5G79249.D	CAL TOX@500PPB	08/21/18 02:33

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aldrin	2	0	Avg	88.746	78.422	73.508	71.994	77.806	72.815	----	----	77.2	8.56	0.999	0.999	8.1	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	2	0	LinF	83.780	70.102	64.053	61.832	66.648	62.471	----	----	68.1	9.26	0.999	0.999	12	2.00	10.00	50.00	100.0	200.0	400.0		
γ-chlordane	2	0	Avg	85.618	72.769	68.138	66.953	73.623	69.695	----	----	72.8	9.46	0.999	0.999	9.3	2.00	10.00	50.00	100.0	200.0	400.0		
α-chlordane	2	0	Avg	73.955	62.774	59.705	59.405	66.193	63.371	----	----	64.2	9.66	0.999	0.999	8.4	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	2	0	LinF	86.862	71.531	63.101	60.911	64.682	59.816	----	----	67.8	9.71	0.998	0.999	15	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	2	0	Avg	71.175	63.196	62.206	62.150	69.118	66.114	----	----	65.7	9.94	0.999	0.999	5.8	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	2	0	Avg	81.261	70.446	65.728	64.468	70.228	65.892	----	----	69.7	10.08	0.999	0.999	8.9	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	2	0	Avg	38.092	37.530	41.732	37.977	44.781	43.094	----	----	40.5	10.53	0.998	0.998	7.6	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	2	0	LinF	74.015	62.647	51.693	54.721	59.342	55.690	----	----	59.7	10.61	0.999	0.999	13	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	2	0	LinF	77.326	69.391	58.542	57.760	62.731	58.980	----	----	64.1	10.74	0.999	0.999	12	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	2	0	LinF	17.131	19.602	36.791	33.988	44.799	47.202	----	----	33.3	10.97	0.996	0.998	38	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	2	0	LinF	67.499	50.823	40.692	46.286	50.973	48.595	----	----	50.8	11.12	0.999	0.999	18	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	2	0	LinF	63.253	48.459	44.454	44.602	50.170	47.579	----	----	49.8	11.26	0.999	0.999	14	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	2	0	LinF	8.7141	12.271	18.244	16.433	20.900	21.598	----	----	16.4	11.97	0.997	0.998	31	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	2	0	LinF	85.182	73.984	54.319	58.142	63.500	59.944	----	----	65.8	12.19	0.999	0.999	18	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	2	0	LinF	73.597	57.824	48.746	47.571	52.628	50.076	----	----	55.1	13.65	0.999	0.999	18	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	2	1	Avg	----	----	----	----	----	----	----	----	3.38	7.91	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	2	Avg	----	----	----	----	----	----	----	----	7.52	9.46	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	3	Avg	----	----	----	----	----	----	----	----	7.69	9.66	-1	-1	Lvl=7	100.0							
Toxaphene	2	1	Avg	----	----	----	----	----	----	----	----	0.589	9.82	-1	-1	Lvl=8	500.0							
Toxaphene	2	2	Avg	----	----	----	----	----	----	----	----	1.84	10.75	-1	-1	Lvl=8	500.0							
Toxaphene	2	3	Avg	----	----	----	----	----	----	----	----	1.09	11.01	-1	-1	Lvl=8	500.0							
Toxaphene	2	4	Avg	----	----	----	----	----	----	----	----	1.40	11.72	-1	-1	Lvl=8	500.0							
Toxaphene	2	5	Avg	----	----	----	----	----	----	----	----	1.08	11.79	-1	-1	Lvl=8	500.0							

Avg Rsd Col 1: 12.43 Avg Rsd Col 2: 13.24

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

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Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6G91477.D	CAL PEST@2PPB	08/22/18 11:47	2	6G91476.D	CAL PEST@10PPB	08/22/18 11:30
3	6G91475.D	CAL PEST@50PPB	08/22/18 11:12	4	6G91478.D	CAL PEST@100PPB	08/22/18 12:05
5	6G91479.D	CAL PEST@200PPB	08/22/18 12:23	6	6G91480.D	CAL PEST@400PPB	08/22/18 12:40
7	6G91481.D	CAL CHLOR@100PP	08/22/18 12:58	8	6G91482.D	CAL TOX@500PPB	08/22/18 13:16

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	LinF	2.3095	1.8732	1.6004	1.4526	1.4982	1.3170	----	----	1.68	4.52	0.996	0.999	22	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	1	0	Avg	2.2105	1.9718	1.9746	1.9175	2.1167	1.9299	----	----	2.02	5.70	0.998	0.999	5.8	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	1	0	Avg	2.2071	1.9192	1.8944	1.8026	1.9585	1.7754	----	----	1.93	6.22	0.997	0.999	8.0	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	1	0	LinF	1.9449	1.3264	1.0756	0.9871	1.0317	0.9147	----	----	1.21	7.14	0.996	0.999	32	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	1	0	LinF	2.3071	1.8106	1.6435	1.4989	1.5980	1.4412	----	----	1.72	6.52	0.997	0.999	18	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	1	0	Avg	1.9692	1.8835	1.7473	1.7182	1.9012	1.7289	----	----	1.82	7.47	0.997	0.999	5.8	2.00	10.00	50.00	100.0	200.0	400.0		
Aldrin	1	0	Avg	2.1327	1.8188	1.7394	1.6519	1.7863	1.6105	----	----	1.79	6.89	0.997	0.999	10	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	1	0	LinF	2.2271	1.8544	1.6636	1.5433	1.6222	1.4481	----	----	1.73	7.73	0.997	0.999	16	2.00	10.00	50.00	100.0	200.0	400.0		
v-chlordane	1	0	LinF	2.4312	1.9972	1.8283	1.7363	1.8700	1.6765	----	----	1.92	8.13	0.997	0.999	14	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	1	0	LinF	2.4642	2.0113	1.7942	1.6766	1.7850	1.6028	----	----	1.89	8.20	0.997	0.999	17	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	1	0	LinF	1.9413	1.6049	1.4126	1.2973	1.3279	1.1486	----	----	1.46	8.08	0.994	0.999	19	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	1	0	Avg	1.8596	1.6265	1.5945	1.5286	1.6567	1.4967	----	----	1.63	8.29	0.997	0.999	7.9	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	1	0	LinF	1.9389	1.6400	1.5394	1.4716	1.5874	1.4271	----	----	1.60	8.53	0.997	0.999	11	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	1	0	LinF	1.6634	1.4215	1.3736	1.2774	1.3754	1.2300	----	----	1.39	8.79	0.997	0.999	11	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	1	0	LinF	1.8414	1.5058	1.2838	1.2651	1.3502	1.2096	----	----	1.41	9.25	0.997	0.999	17	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	1	0	LinF	1.9491	1.5865	1.4323	1.3584	1.4426	1.2570	----	----	1.50	9.36	0.995	0.999	16	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	1	0	LinF	0.6518	0.6736	0.9428	0.8848	1.0283	0.9817	----	----	0.861	9.46	0.999	0.999	19	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	1	0	LinF	1.4404	1.3167	1.1028	1.0958	1.1857	1.0701	----	----	1.20	9.85	0.997	0.999	12	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	1	0	LinF	1.4591	1.2048	1.1182	1.0805	1.1841	1.1222	----	----	1.19	10.22	0.999	0.999	11	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	1	0	Avg	0.5878	0.5362	0.5866	0.5287	0.5682	0.5067	----	----	0.552	10.16	0.996	0.999	6.0	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	1	0	Avg	1.5134	1.3316	1.2375	1.2301	1.3406	1.2125	----	----	1.31	10.73	0.997	0.999	8.6	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	1	0	LinF	2.5615	2.0137	1.6253	1.4821	1.5289	1.3264	----	----	1.76	11.69	0.995	0.999	26	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	1	1	Avg	----	----	----	----	----	----	----	----	0.0919	6.31	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	2	Avg	----	----	----	----	----	----	----	----	0.228	8.13	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	3	Avg	----	----	----	----	----	----	----	----	0.353	8.20	-1	-1	Lvl=7	100.0							
Toxaphene	1	1	Avg	----	----	----	----	----	----	----	----	0.0342	8.92	-1	-1	Lvl=8	500.0							
Toxaphene	1	2	Avg	----	----	----	----	----	----	----	----	0.0214	9.05	-1	-1	Lvl=8	500.0							
Toxaphene	1	3	Avg	----	----	----	----	----	----	----	----	0.0395	9.39	-1	-1	Lvl=8	500.0							
Toxaphene	1	4	Avg	----	----	----	----	----	----	----	----	0.0336	9.72	-1	-1	Lvl=8	500.0							
Toxaphene	1	5	Avg	----	----	----	----	----	----	----	----	0.0422	10.18	-1	-1	Lvl=8	500.0							
TCMX-Surrogate	2	0	LinF	0.5838	0.4869	0.4490	0.4359	0.4907	0.4598	----	----	0.484	4.67	0.998	0.999	11	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	2	0	LinF	0.5505	0.4530	0.4907	0.5306	0.6627	0.6574	----	----	0.558	5.62	0.997	0.998	15	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	2	0	LinF	0.5408	0.4530	0.4794	0.5038	0.6126	0.5991	----	----	0.532	6.16	0.998	0.998	12	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	2	0	LinF	0.4064	0.3463	0.3087	0.2999	0.3370	0.3160	----	----	0.336	6.25	0.998	0.999	12	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	2	0	LinF	0.9232	0.4741	0.4180	0.3964	0.4696	0.4651	----	----	0.524	6.61	0.998	0.999	38	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	2	0	LinF	0.5387	0.4257	0.4479	0.4883	0.6084	0.5893	----	----	0.516	6.75	0.997	0.997	14	2.00	10.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 14.28 Avg Rsd Col 2: 14.43

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

8081617 0148

Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6G91477.D	CAL PEST@2PPB	08/22/18 11:47	2	6G91476.D	CAL PEST@10PPB	08/22/18 11:30
3	6G91475.D	CAL PEST@50PPB	08/22/18 11:12	4	6G91478.D	CAL PEST@100PPB	08/22/18 12:05
5	6G91479.D	CAL PEST@200PPB	08/22/18 12:23	6	6G91480.D	CAL PEST@400PPB	08/22/18 12:40
7	6G91481.D	CAL CHLOR@100PP	08/22/18 12:58	8	6G91482.D	CAL TOX@500PPB	08/22/18 13:16

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aldrin	2	0	LinF	0.5659	0.4307	0.4118	0.4284	0.5203	0.5157	----	----	0.479	7.06	0.998	0.998	13	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	2	0	LinF	0.5580	0.4414	0.4026	0.3992	0.4701	0.4575	----	----	0.455	7.79	0.998	0.998	13	2.00	10.00	50.00	100.0	200.0	400.0		
v-chlordane	2	0	LinF	0.5780	0.4609	0.4234	0.4232	0.5072	0.4992	----	----	0.482	8.00	0.998	0.998	12	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	2	0	LinF	0.5310	0.4278	0.3995	0.4012	0.4695	0.4473	----	----	0.446	8.21	0.998	0.998	11	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	2	0	LinF	0.5660	0.4508	0.4105	0.4082	0.4910	0.4892	----	----	0.469	8.26	0.998	0.998	13	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	2	0	LinF	0.4731	0.3937	0.3793	0.3917	0.4799	0.4772	----	----	0.433	8.51	0.998	0.998	11	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	2	0	LinF	0.4872	0.3975	0.3754	0.3833	0.4640	0.4613	----	----	0.428	8.66	0.998	0.998	11	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	2	0	Avg	0.3761	0.3167	0.3168	0.3107	0.3797	0.3748	----	----	0.346	9.13	0.998	0.998	9.9	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	2	0	LinF	0.4472	0.3769	0.3220	0.3400	0.4004	0.3877	----	----	0.379	9.22	0.998	0.998	12	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	2	0	LinF	0.5225	0.4172	0.3748	0.3773	0.4454	0.4276	----	----	0.428	9.35	0.998	0.998	13	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	2	0	LinF	0.1972	0.1959	0.2646	0.2416	0.3108	0.3209	----	----	0.255	9.60	0.997	0.998	21	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	2	0	LinF	0.5301	0.3994	0.3253	0.3341	0.3782	0.3577	----	----	0.388	9.76	0.998	0.999	19	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	2	0	LinF	0.4447	0.3421	0.3022	0.2993	0.3515	0.3420	----	----	0.347	9.91	0.998	0.998	15	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	2	0	Avg	0.1540	0.1472	0.1745	0.1567	0.1805	0.1712	----	----	0.164	10.67	0.998	0.999	8.0	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	2	0	Avg	0.5169	0.4292	0.3984	0.4127	0.4791	0.4575	----	----	0.449	10.90	0.998	0.998	9.9	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	2	0	LinF	0.8381	0.6503	0.5317	0.4989	0.5385	0.4932	----	----	0.592	12.47	0.998	0.999	23	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	2	1	Avg	----	----	----	----	----	----	----	----	0.0234	6.40	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	2	Avg	----	----	----	----	----	----	----	----	0.0940	8.01	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	3	Avg	----	----	----	----	----	----	----	----	0.0520	8.21	-1	-1	Lvl=7	100.0							
Toxaphene	2	1	Avg	----	----	----	----	----	----	----	----	0.00603	8.90	-1	-1	Lvl=8	500.0							
Toxaphene	2	2	Avg	----	----	----	----	----	----	----	----	0.00743	9.16	-1	-1	Lvl=8	500.0							
Toxaphene	2	3	Avg	----	----	----	----	----	----	----	----	0.00713	9.65	-1	-1	Lvl=8	500.0							
Toxaphene	2	4	Avg	----	----	----	----	----	----	----	----	0.0115	10.41	-1	-1	Lvl=8	500.0							
Toxaphene	2	5	Avg	----	----	----	----	----	----	----	----	0.00753	10.48	-1	-1	Lvl=8	500.0							

Avg Rsd Col 1: 14.28 Avg Rsd Col 2: 14.43

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

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Form7
Continuing Calibration

Method: EPA 8081B

Data File:				5G79340.D			5G79362.D			6G91514.D			6G91529.D			6G91555.D		
Method:				8081			8081			8081			8081			8081		
Calibration Name:				CAL PEST@200PP			CAL PEST@200PP			CAL PEST@200PP			CAL PEST@200PP			CAL PEST@200PP		
Calibration Date/Time				08/24/18 00:36			08/24/18 09:32			08/23/18 09:08			08/23/18 17:08			08/24/18 09:29		
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
TCMX-Surrogate	20	1	0	213.0	200	6.5	208.6	200	4.3	201.3	200	0.7	215.2	200	7.6	198.5	200	0.8
alpha-BHC	20	1	0	209.0	200	4.5	211.2	200	5.6	193.6	200	3.2	203.6	200	1.8	188	200	6.0
gamma-BHC	20	1	0	209.8	200	4.9	207.9	200	4.0	186.8	200	6.6	196.4	200	1.8	182.4	200	8.8
beta-BHC	20	1	0	209.1	200	4.5	209.7	200	4.8	206.9	200	3.5	206.8	200	3.4	196.1	200	1.9
Heptachlor	20	1	0	232.6	200	16.3	253.4	200	26.7*	189.8	200	5.1	202.9	200	1.4	192.4	200	3.8
delta-BHC	20	1	0	206.9	200	3.5	208.7	200	4.3	187.5	200	6.3	196.6	200	1.7	183.9	200	8.1
Aldrin	20	1	0	202.9	200	1.4	202.4	200	1.2	182.2	200	8.9	192.6	200	3.7	178.6	200	10.7
Heptachlor Epoxide	20	1	0	209.8	200	4.9	210.6	200	5.3	207.4	200	3.7	210.7	200	5.3	199.3	200	0.3
y-chlordane	20	1	0	200.4	200	0.2	201.5	200	0.7	206.4	200	3.2	206.6	200	3.3	195.6	200	2.2
a-chlordane	20	1	0	206.6	200	3.3	208.4	200	4.2	207.0	200	3.5	206.6	200	3.3	195.3	200	2.3
Endosulfan I	20	1	0	202.7	200	1.3	209.1	200	4.5	211.4	200	5.7	212.5	200	6.3	203.8	200	1.9
p,p'-DDE	20	1	0	204.8	200	2.4	207.6	200	3.8	188.6	200	5.7	196.4	200	1.8	183.8	200	8.1
Dieldrin	20	1	0	203	200	1.5	207.1	200	3.6	204.7	200	2.4	207.9	200	3.9	196.3	200	1.9
Endrin	20	1	0	212.5	200	6.3	219.7	200	9.9	196.6	200	1.7	217.9	200	8.9	204.2	200	2.1
p,p'-DDD	20	1	0	203.7	200	1.8	212.5	200	6.2	198.2	200	0.9	208.0	200	4.0	192.1	200	3.9
Endosulfan II	20	1	0	198.4	200	0.8	206.1	200	3.0	213.8	200	6.9	210.6	200	5.3	202.3	200	1.2
p,p'-DDT	20	1	0	187.4	200	6.3	196.4	200	1.8	189.8	200	5.1	193.9	200	3.0	187.1	200	6.4
Endrin Aldehyde	20	1	0	204.6	200	2.3	212.7	200	6.4	206.5	200	3.3	203.2	200	1.6	188.0	200	6.0
Endosulfan Sulfate	20	1	0	202.1	200	1.0	208.1	200	4.1	205.6	200	2.8	186.4	200	6.8	183.4	200	8.3
Methoxychlor	20	1	0	186	200	7.0	205.3	200	2.6	184.5	200	7.8	189.1	200	5.5	184.8	200	7.6
Endrin Ketone	20	1	0	216.1	200	8.0	231.3	200	15.7	194.7	200	2.6	208.9	200	4.5	185.3	200	7.4
DCB-Surrogate	20	1	0	193.9	200	3.0	209.9	200	4.9	219.9	200	10.0	208.8	200	4.4	200.5	200	0.3
Average Difference	20	1	0			4.2			5.8			4.5			4.1			4.5
TCMX-Surrogate	20	2	0	198.7	200	0.7	194.3	200	2.8	203.3	200	1.6	220.8	200	10.4	196.4	200	1.8
alpha-BHC	20	2	0	207.4	200	3.7	199.3	200	0.3	198	200	1.0	214.9	200	7.4	188.8	200	5.6
gamma-BHC	20	2	0	207.7	200	3.8	201.1	200	0.6	198.9	200	0.6	216.6	200	8.3	190.9	200	4.6
beta-BHC	20	2	0	204.4	200	2.2	192.3	200	3.9	205.2	200	2.6	218.5	200	9.2	195.5	200	2.2
Heptachlor	20	2	0	211.1	200	5.6	218.5	200	9.2	188.1	200	5.9	214.8	200	7.4	186.3	200	6.9
delta-BHC	20	2	0	206.2	200	3.1	198.5	200	0.8	198.3	200	0.9	215.3	200	7.6	190.5	200	4.8
Aldrin	20	2	0	198.3	200	0.8	190.8	200	4.6	199.3	200	0.4	213	200	6.5	188.8	200	5.6
Heptachlor Epoxide	20	2	0	208.0	200	4.0	203.4	200	1.7	203.2	200	1.6	215.9	200	8.0	193.1	200	3.4
y-chlordane	20	2	0	197.2	200	1.4	188.8	200	5.6	201.4	200	0.7	214.1	200	7.1	189.8	200	5.1
a-chlordane	20	2	0	202.1	200	1.0	196.1	200	1.9	207.4	200	3.7	217.9	200	9.0	195.2	200	2.4
Endosulfan I	20	2	0	206.3	200	3.2	200.1	200	0.1	201.6	200	0.8	211.9	200	6.0	188.9	200	5.6
p,p'-DDE	20	2	0	203.7	200	1.9	199.0	200	0.5	200.6	200	0.3	211.9	200	5.9	190.4	200	4.8
Dieldrin	20	2	0	196.2	200	1.9	192.1	200	4.0	200.6	200	0.3	213.5	200	6.7	189.4	200	5.3
Endrin	20	2	0	225.9	200	13.0	235.1	200	17.5	208.2	200	4.1	241.2	200	20.6*	213.9	200	7.0
p,p'-DDD	20	2	0	200.3	200	0.1	198.7	200	0.6	194.8	200	2.6	210.3	200	5.2	189.4	200	5.3
Endosulfan II	20	2	0	199	200	0.5	198	200	1.0	206.2	200	3.1	215.4	200	7.7	194.9	200	2.6
p,p'-DDT	20	2	0	188.9	200	5.6	192.2	200	3.9	180.3	200	9.9	208.5	200	4.3	180.7	200	9.6
Endrin Aldehyde	20	2	0	195.1	200	2.4	200.8	200	0.4	205.7	200	2.8	212	200	6.0	191.5	200	4.2
Endosulfan Sulfate	20	2	0	201.7	200	0.8	200.3	200	0.2	197.2	200	1.4	211.6	200	5.8	189.7	200	5.2
Methoxychlor	20	2	0	187.5	200	6.3	204.7	200	2.3	188.2	200	5.9	231.7	200	15.8	203.5	200	1.7
Endrin Ketone	20	2	0	199.5	200	0.3	203.4	200	1.7	209.6	200	4.8	215.8	200	7.9	198.8	200	0.6
DCB-Surrogate	20	2	0	192.1	200	3.9	191.9	200	4.0	210 8	200	5.4	214.7	200	7.4	199.6	200	0.2
Average Difference	20	2	0			3.0			3.1			2.7			8.2			4.3

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
Continuing Calibration

Method: EPA 8081B

Data File: 6G91571.D
Method: 8081
Calibration Name: CAL PEST@200PP
Calibration Date/Time 08/24/18 14:41

Compound	Limit	Col	Mr	Conc Conc	Conc Exp	%Diff	Conc Conc	Conc Exp	%Diff	Conc Conc	Conc Exp	%Diff	Conc Conc	Conc Exp	%Diff
TCMX-Surrogate	20	1	0	222.7	200	11.4									
alpha-BHC	20	1	0	209.1	200	4.6									
gamma-BHC	20	1	0	203.3	200	1.6									
beta-BHC	20	1	0	212.5	200	6.2									
Heptachlor	20	1	0	220.9	200	10.5									
delta-BHC	20	1	0	203	200	1.5									
Aldrin	20	1	0	199.1	200	0.5									
Heptachlor Epoxide	20	1	0	217.4	200	8.7									
y-chlordane	20	1	0	213.2	200	6.6									
a-chlordane	20	1	0	211.4	200	5.7									
Endosulfan I	20	1	0	219.4	200	9.7									
p,p'-DDE	20	1	0	200.1	200	0.1									
Dieldrin	20	1	0	212.3	200	6.1									
Endrin	20	1	0	222.7	200	11.4									
p,p'-DDD	20	1	0	208.6	200	4.3									
Endosulfan II	20	1	0	211.5	200	5.8									
p,p'-DDT	20	1	0	200.9	200	0.5									
Endrin Aldehyde	20	1	0	200.3	200	0.2									
Endosulfan Sulfate	20	1	0	205.9	200	2.9									
Methoxychlor	20	1	0	198.0	200	1.0									
Endrin Ketone	20	1	0	198.1	200	0.9									
DCB-Surrogate	20	1	0	211.0	200	5.5									
Average Difference	20	1	0			4.8									
TCMX-Surrogate	20	2	0	220.3	200	10.1									
alpha-BHC	20	2	0	212.1	200	6.0									
gamma-BHC	20	2	0	214.7	200	7.3									
beta-BHC	20	2	0	214.6	200	7.3									
Heptachlor	20	2	0	220.6	200	10.3									
delta-BHC	20	2	0	212.3	200	6.1									
Aldrin	20	2	0	211.6	200	5.8									
Heptachlor Epoxide	20	2	0	215.4	200	7.7									
y-chlordane	20	2	0	211.3	200	5.7									
a-chlordane	20	2	0	215.6	200	7.8									
Endosulfan I	20	2	0	210.3	200	5.2									
p,p'-DDE	20	2	0	209.9	200	4.9									
Dieldrin	20	2	0	211.6	200	5.8									
Endrin	20	2	0	240.9	200	20.5									
p,p'-DDD	20	2	0	211.0	200	5.5									
Endosulfan II	20	2	0	212.6	200	6.3									
p,p'-DDT	20	2	0	210.4	200	5.2									
Endrin Aldehyde	20	2	0	209.9	200	4.9									
Endosulfan Sulfate	20	2	0	216.5	200	8.3									
Methoxychlor	20	2	0	237.4	200	18.7									
Endrin Ketone	20	2	0	218.0	200	9.0									
DCB-Surrogate	20	2	0	219.7	200	9.9									
Average Difference	20	2	0			8.1									

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8081B

			5G79242.D		6G91477.D		5G79340.D		6G91514.D		6G91555.D	
Data File:			5G79242.D		6G91477.D		5G79340.D		6G91514.D		6G91555.D	
Calibration Name:			CAL PEST@2PPB		CAL PEST@2PPB		CAL PEST@200PPB		CAL PEST@200PPB		CAL PEST@200PPB	
Calibration Date/Time			8/21/2018 12:25:52 AM		8/22/2018 11:47:00 AM		8/24/2018 12:36:47 AM		8/23/2018 9:08:00 AM		8/24/2018 9:29:00 AM	
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
TCMX-Surrogate	1	0	6.06	(6.00 - 6.12)	4.51	(4.45 - 4.57)	6.06	(6.00 - 6.12)	4.52	(4.46 - 4.58)	4.51	(4.45 - 4.57)
alpha-BHC	1	0	7.32	(7.28 - 7.36)	5.70	(5.66 - 5.74)	7.31	(7.27 - 7.35)	5.70	(5.66 - 5.74)	5.69	(5.65 - 5.73)
gamma-BHC	1	0	7.84	(7.80 - 7.88)	6.22	(6.18 - 6.26)	7.84	(7.80 - 7.88)	6.22	(6.18 - 6.26)	6.22	(6.18 - 6.26)
beta-BHC	1	0	8.73	(8.65 - 8.81)	7.13	(7.05 - 7.21)	8.72	(8.64 - 8.80)	7.13	(7.05 - 7.21)	7.13	(7.05 - 7.21)
Heptachlor	1	0	8.12	(8.08 - 8.16)	6.51	(6.47 - 6.55)	8.12	(8.08 - 8.16)	6.51	(6.47 - 6.55)	6.51	(6.47 - 6.55)
delta-BHC	1	0	9.04	(8.96 - 9.12)	7.46	(7.38 - 7.54)	9.04	(8.96 - 9.12)	7.47	(7.39 - 7.55)	7.46	(7.38 - 7.54)
Aldrin	1	0	8.48	(8.40 - 8.56)	6.88	(6.80 - 6.96)	8.48	(8.40 - 8.56)	6.88	(6.80 - 6.96)	6.88	(6.80 - 6.96)
Heptachlor Epoxide	1	0	9.28	(9.24 - 9.32)	7.72	(7.68 - 7.76)	9.28	(9.24 - 9.32)	7.73	(7.69 - 7.77)	7.72	(7.68 - 7.76)
v-chlordane	1	0	9.67	(9.63 - 9.71)	8.13	(8.09 - 8.17)	9.67	(9.63 - 9.71)	8.13	(8.09 - 8.17)	8.12	(8.08 - 8.16)
a-chlordane	1	0	9.73	(9.69 - 9.77)	8.20	(8.16 - 8.24)	9.73	(9.69 - 9.77)	8.20	(8.16 - 8.24)	8.19	(8.15 - 8.23)
Endosulfan I	1	0	9.62	(9.58 - 9.66)	8.08	(8.04 - 8.12)	9.62	(9.58 - 9.66)	8.08	(8.04 - 8.12)	8.08	(8.04 - 8.12)
p,p'-DDE	1	0	9.82	(9.74 - 9.90)	8.29	(8.21 - 8.37)	9.82	(9.74 - 9.90)	8.29	(8.21 - 8.37)	8.29	(8.21 - 8.37)
Dieldrin	1	0	10.05	(9.97 - 10.13)	8.53	(8.45 - 8.61)	10.05	(9.97 - 10.13)	8.53	(8.45 - 8.61)	8.53	(8.45 - 8.61)
Endrin	1	0	10.29	(10.25 - 10.33)	8.79	(8.75 - 8.83)	10.29	(10.25 - 10.33)	8.79	(8.75 - 8.83)	8.78	(8.74 - 8.82)
p,p'-DDD	1	0	10.72	(10.64 - 10.80)	9.25	(9.17 - 9.33)	10.72	(10.64 - 10.80)	9.25	(9.17 - 9.33)	9.24	(9.16 - 9.32)
Endosulfan II	1	0	10.83	(10.75 - 10.91)	9.36	(9.28 - 9.44)	10.83	(10.75 - 10.91)	9.36	(9.28 - 9.44)	9.35	(9.27 - 9.43)
p,p'-DDT	1	0	10.92	(10.84 - 11.00)	9.46	(9.38 - 9.54)	10.92	(10.84 - 11.00)	9.46	(9.38 - 9.54)	9.45	(9.37 - 9.53)
Endrin Aldehyde	1	0	11.29	(11.21 - 11.37)	9.85	(9.77 - 9.93)	11.29	(11.21 - 11.37)	9.85	(9.77 - 9.93)	9.84	(9.76 - 9.92)
Endosulfan Sulfate	1	0	11.64	(11.60 - 11.68)	10.22	(10.18 - 10.26)	11.64	(11.60 - 11.68)	10.22	(10.18 - 10.26)	10.21	(10.17 - 10.25)
Methoxychlor	1	0	11.57	(11.53 - 11.61)	10.16	(10.12 - 10.20)	11.57	(11.53 - 11.61)	10.16	(10.12 - 10.20)	10.16	(10.12 - 10.20)
Endrin Ketone	1	0	12.11	(12.03 - 12.19)	10.73	(10.65 - 10.81)	12.11	(12.03 - 12.19)	10.73	(10.65 - 10.81)	10.72	(10.64 - 10.80)
DCB-Surrogate	1	0	13.02	(12.96 - 13.08)	11.69	(11.63 - 11.75)	13.01	(12.95 - 13.07)	11.69	(11.63 - 11.75)	11.68	(11.62 - 11.74)
Chlordane (Technical	1	1										
Chlordane (Technical	1	2										
Chlordane (Technical	1	3										
Toxaphene	1	1	9.88	(9.84 - 9.92)	8.92	(8.88 - 8.96)						
Toxaphene	1	2	10.41	(10.37 - 10.45)	9.05	(9.01 - 9.09)						
Toxaphene	1	3	10.86	(10.82 - 10.90)	9.39	(9.35 - 9.43)						
Toxaphene	1	4	11.17	(11.13 - 11.21)	9.72	(9.68 - 9.76)						
Toxaphene	1	5	11.59	(11.55 - 11.63)	10.18	(10.14 - 10.22)						
TCMX-Surrogate	2	0	6.14	(6.08 - 6.20)	4.67	(4.61 - 4.73)	6.14	(6.08 - 6.20)	4.67	(4.61 - 4.73)	4.67	(4.61 - 4.73)
alpha-BHC	2	0	7.15	(7.11 - 7.19)	5.62	(5.58 - 5.66)	7.15	(7.11 - 7.19)	5.62	(5.58 - 5.66)	5.61	(5.57 - 5.65)
gamma-BHC	2	0	7.69	(7.65 - 7.73)	6.16	(6.12 - 6.20)	7.69	(7.65 - 7.73)	6.16	(6.12 - 6.20)	6.16	(6.12 - 6.20)
beta-BHC	2	0	7.78	(7.70 - 7.86)	6.25	(6.17 - 6.33)	7.77	(7.69 - 7.85)	6.24	(6.16 - 6.32)	6.24	(6.16 - 6.32)
Heptachlor	2	0	8.12	(8.08 - 8.16)	6.61	(6.57 - 6.65)	8.12	(8.08 - 8.16)	6.61	(6.57 - 6.65)	6.60	(6.56 - 6.64)
delta-BHC	2	0	8.27	(8.19 - 8.35)	6.75	(6.67 - 6.83)	8.26	(8.18 - 8.34)	6.75	(6.67 - 6.83)	6.74	(6.66 - 6.82)
Aldrin	2	0	8.56	(8.48 - 8.64)	7.06	(6.98 - 7.14)	8.56	(8.48 - 8.64)	7.06	(6.98 - 7.14)	7.06	(6.98 - 7.14)
Heptachlor Epoxide	2	0	9.26	(9.22 - 9.30)	7.79	(7.75 - 7.83)	9.26	(9.22 - 9.30)	7.79	(7.75 - 7.83)	7.79	(7.75 - 7.83)
v-chlordane	2	0	9.46	(9.42 - 9.50)	8.00	(7.96 - 8.04)	9.46	(9.42 - 9.50)	8.00	(7.96 - 8.04)	8.00	(7.96 - 8.04)
a-chlordane	2	0	9.66	(9.62 - 9.70)	8.21	(8.17 - 8.25)	9.66	(9.62 - 9.70)	8.21	(8.17 - 8.25)	8.21	(8.17 - 8.25)
Endosulfan I	2	0	9.71	(9.67 - 9.75)	8.26	(8.22 - 8.30)	9.70	(9.66 - 9.74)	8.26	(8.22 - 8.30)	8.26	(8.22 - 8.30)
p,p'-DDE	2	0	9.94	(9.86 - 10.02)	8.51	(8.43 - 8.59)	9.94	(9.86 - 10.02)	8.51	(8.43 - 8.59)	8.51	(8.43 - 8.59)
Dieldrin	2	0	10.08	(10.00 - 10.16)	8.66	(8.58 - 8.74)	10.08	(10.00 - 10.16)	8.65	(8.57 - 8.73)	8.65	(8.57 - 8.73)
Endrin	2	0	10.53	(10.49 - 10.57)	9.13	(9.09 - 9.17)	10.52	(10.48 - 10.56)	9.13	(9.09 - 9.17)	9.13	(9.09 - 9.17)
p,p'-DDD	2	0	10.61	(10.53 - 10.69)	9.22	(9.14 - 9.30)	10.61	(10.53 - 10.69)	9.21	(9.13 - 9.29)	9.21	(9.13 - 9.29)
Endosulfan II	2	0	10.74	(10.66 - 10.82)	9.35	(9.27 - 9.43)	10.73	(10.65 - 10.81)	9.35	(9.27 - 9.43)	9.35	(9.27 - 9.43)
p,p'-DDT	2	0	10.97	(10.89 - 11.05)	9.60	(9.52 - 9.68)	10.96	(10.88 - 11.04)	9.60	(9.52 - 9.68)	9.60	(9.52 - 9.68)
Endrin Aldehyde	2	0	11.12	(11.04 - 11.20)	9.76	(9.68 - 9.84)	11.12	(11.04 - 11.20)	9.76	(9.68 - 9.84)	9.76	(9.68 - 9.84)
Endosulfan Sulfate	2	0	11.26	(11.22 - 11.30)	9.91	(9.87 - 9.95)	11.26	(11.22 - 11.30)	9.91	(9.87 - 9.95)	9.91	(9.87 - 9.95)
Methoxychlor	2	0	11.96	(11.92 - 12.00)	10.67	(10.63 - 10.71)	11.96	(11.92 - 12.00)	10.67	(10.63 - 10.71)	10.67	(10.63 - 10.71)
Endrin Ketone	2	0	12.18	(12.10 - 12.26)	10.90	(10.82 - 10.98)	12.18	(12.10 - 12.26)	10.90	(10.82 - 10.98)	10.90	(10.82 - 10.98)
DCB-Surrogate	2	0	13.65	(13.59 - 13.71)	12.47	(12.41 - 12.53)	13.64	(13.58 - 13.70)	12.46	(12.40 - 12.52)	12.46	(12.40 - 12.52)
Chlordane (Technical	2	1										
Chlordane (Technical	2	2										
Chlordane (Technical	2	3										
Toxaphene	2	1	9.82	(9.78 - 9.86)	8.90	(8.86 - 8.94)						
Toxaphene	2	2	10.75	(10.71 - 10.79)	9.16	(9.12 - 9.20)						
Toxaphene	2	3	11.01	(10.97 - 11.05)	9.65	(9.61 - 9.69)						
Toxaphene	2	4	11.72	(11.68 - 11.76)	10.41	(10.37 - 10.45)						
Toxaphene	2	5	11.79	(11.75 - 11.83)	10.48	(10.44 - 10.52)						

Herbicide Data

Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD05999-001
Client Id: SS-1
Data File: 12G18748.D
Analysis Date: 08/20/18 13:40
Date Rec/Extracted: 08/16/18-08/17/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Soil
Initial Vol: 50g
Final Vol: 10ml
Dilution: 1
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.011	U	93-72-1	Silvex	0.011	U
94-75-7	2,4-D	0.011	U				

Worksheet #: 476800 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2018\GC_12\Data\08-20-18\
Data File : 12G18748.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Aug-18, 13:40:22
Operator : MLC/MS/ZM
Sample : AD05999-001
Misc : S,HERB
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 20 17:37:30 2018
Quant Method : G:\GCDATA\2018\GC_12\MethodQt\12G_HERB0806.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon Aug 06 14:43:44 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
2)Dcaa-Surrogate	8.296	8.184	198.5E6	60045635	809.496	845.963

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_12\Data\08-20-18\
Data File : 12G18748.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Aug-18, 13:40:22
Operator : MLC/MS/ZM
Sample : AD05999-001
Misc : S,HERB
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 20 17:37:30 2018
Quant Method : G:\GCDATA\2018\GC_12\MethodQt\12G_HERB0806.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon Aug 06 14:43:44 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

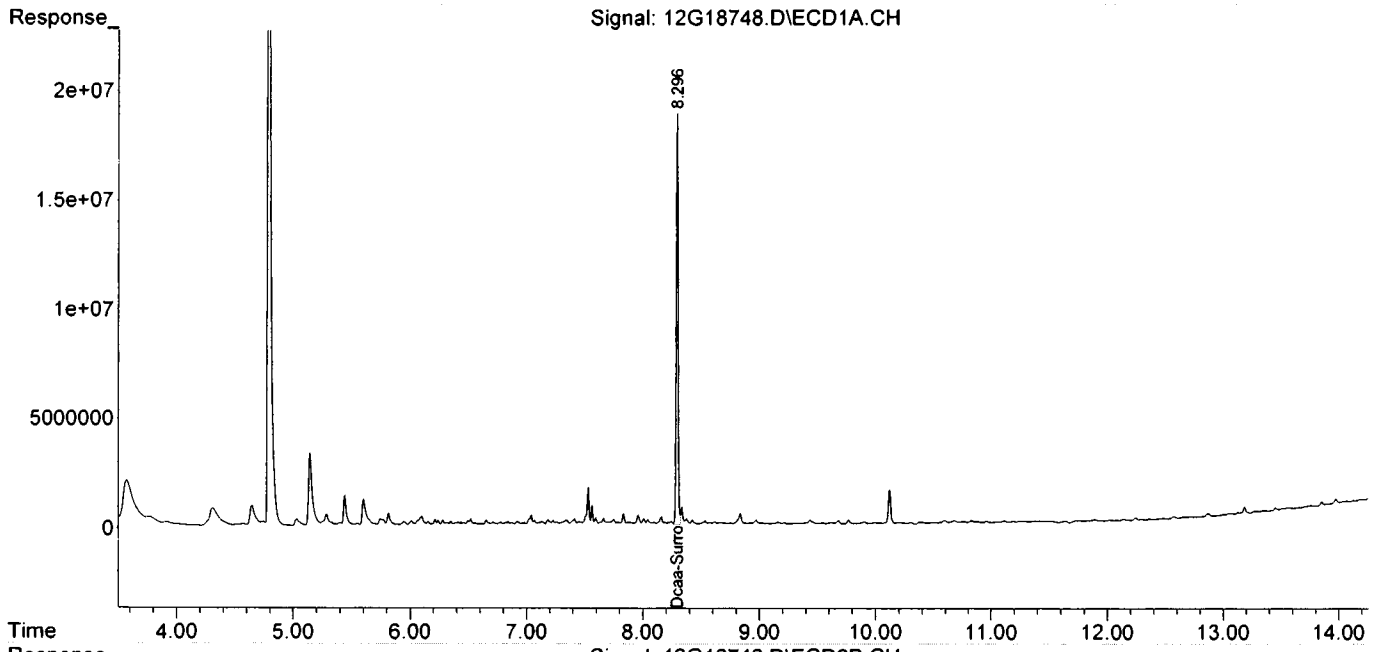

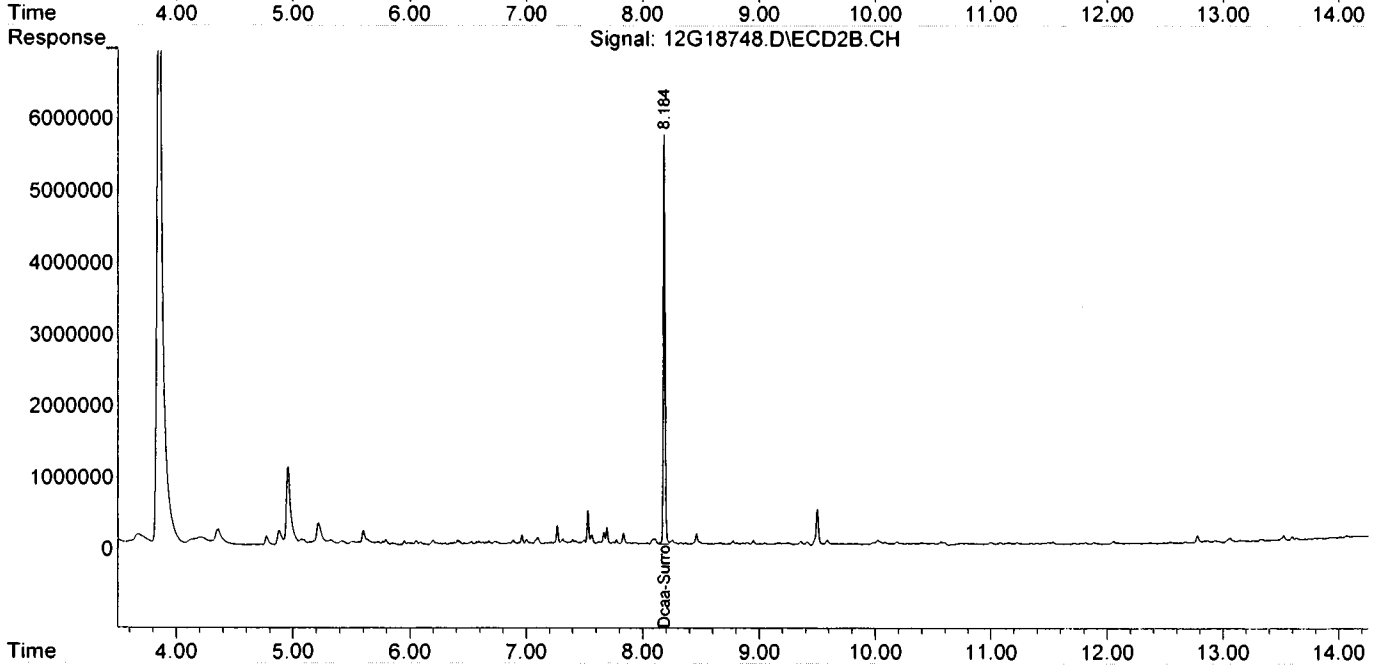

Form1

ORGANICS HERBICIDE REPORT

Sample Number: SMB69832
Client Id:
Data File: 12G18744.D
Analysis Date: 08/20/18 12:22
Date Rec/Extracted: NA-08/17/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Soil
Initial Vol: 50g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.010	U	93-72-1	Silvex	0.010	U
94-75-7	2,4-D	0.010	U				

Worksheet #: 476800

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2018\GC_12\Data\08-20-18\
Data File : 12G18744.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Aug-18, 12:22:53
Operator : MLC/MS/ZM
Sample : SMB69832
Misc : S,HERB
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 20 17:34:58 2018
Quant Method : G:\GCDATA\2018\GC_12\MethodQt\12G_HERB0806.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon Aug 06 14:43:44 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
2)Dcaa-Surrogate	8.308	8.191	168.3E6	52291599	686.276	736.719

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_12\Data\08-20-18\
Data File : 12G18744.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Aug-18, 12:22:53
Operator : MLC/MS/ZM
Sample : SMB69832
Misc : S,HERB
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 20 17:34:58 2018
Quant Method : G:\GCDATA\2018\GC_12\MethodQt\12G_HERB0806.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon Aug 06 14:43:44 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

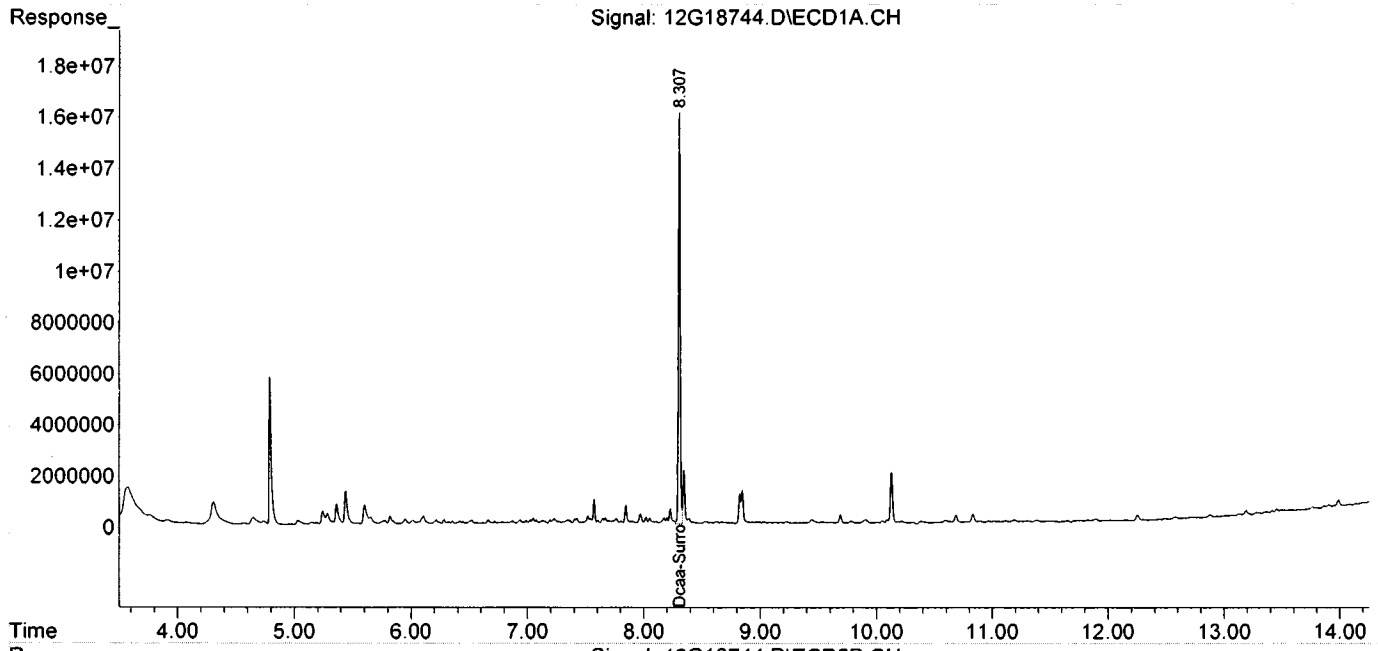

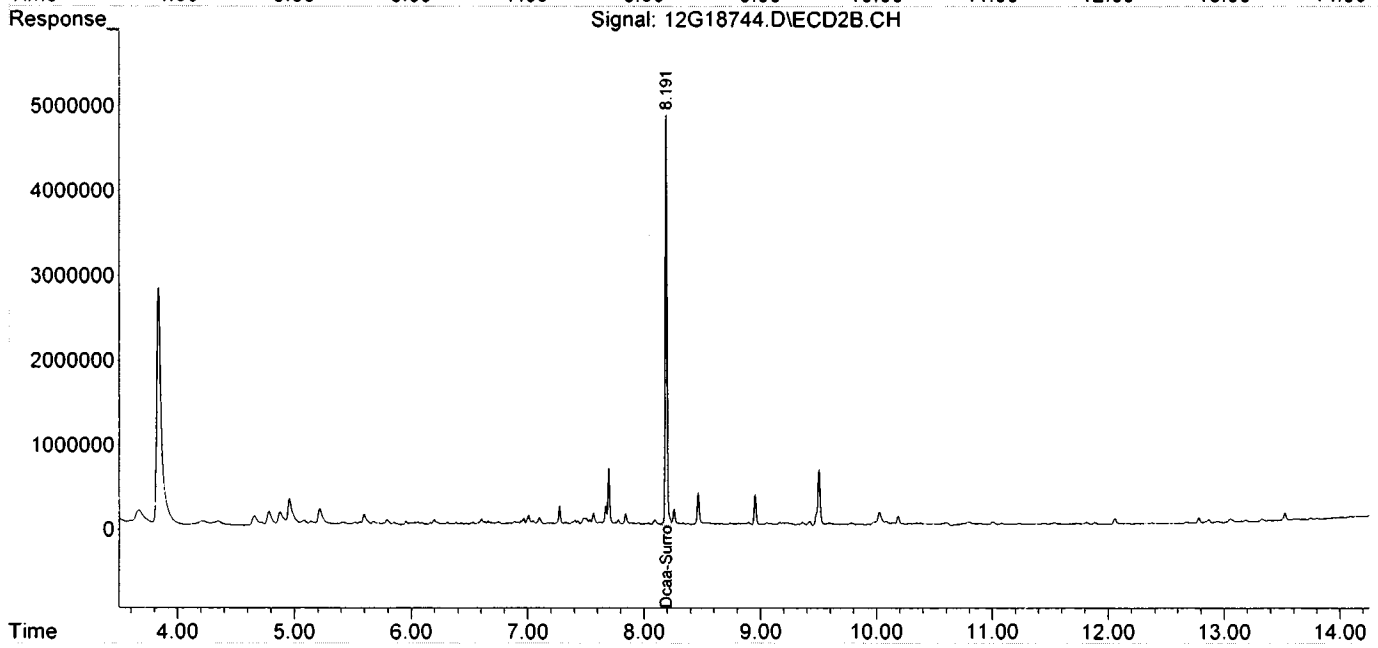

FORM2

Surrogate Recovery Method: EPA 8151A

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
12G18744.D	SMB69832	S	08/20/18 12:22	1		69	74				
12G18748.D	AD05999-001	S	08/20/18 13:40	1		81	85				
12G18745.D	SMB69832(MS)	S	08/20/18 12:42	1		78	90				
12G18746.D	AD05999-001(MS)	S	08/20/18 13:01	1		79	90				
12G18747.D	AD05999-001(MSD)	S	08/20/18 13:20	1		53	61				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8151A

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dcaa-Surrogate	1000	25-138
S2=Dcaa-Surrogate	1000	25-138

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69832

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G18745.D	SMB69832(MS)	8/20/2018 12:42:09 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	303.08	0	400	76	25	130
2,4-D	1	299.9	0	400	75	10	130
Silvex	1	306.28	0	400	77	25	130
2,4,5-T	1	311.6	0	400	78	25	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69832

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G18746.D	AD05999-001(MS)	8/20/2018 1:01:30 PM
Non Spike(If applicable):	12G18748.D	AD05999-001	8/20/2018 1:40:22 PM
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	317.3	0	400	79	25	130
2,4-D	1	303.58	0	400	76	10	130
Silvex	1	322.46	0	400	81	25	130
2,4,5-T	1	323.11	0	400	81	25	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G18747.D	AD05999-001(MSD)	8/20/2018 1:20:53 PM
Non Spike(If applicable):	12G18748.D	AD05999-001	8/20/2018 1:40:22 PM
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	216.77	0	400	54	25	130
2,4-D	1	209.44	0	400	52	10	130
Silvex	1	217.17	0	400	54	25	130
2,4,5-T	1	217.25	0	400	54	25	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: SMB69832

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G18747.D	AD05999-001(MSD)	8/20/2018 1:20:53 PM
Duplicate(If applicable):	12G18746.D	AD05999-001(MS)	8/20/2018 1:01:30 PM
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Dicamba	1	216.77	317.3	38	40
2,4-D	1	209.44	303.58	37	40
Silvex	1	217.17	322.46	39	40
2,4,5-T	1	217.25	323.11	39	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: SMB69832
Blank Data File: 12G18744.D
Matrix: Soil

Blank Analysis Date: 08/20/18 12:22
Blank Extraction Date: 08/17/18
(If Applicable)
Method: EPA 8151A

Sample Number	Data File	Analysis Date
AD05999-001	12G18748.D	08/20/18 13:40
AD05999-001(MSD	12G18747.D	08/20/18 13:20
AD05999-001(MS)	12G18746.D	08/20/18 13:01
SMB69832(MS)	12G18745.D	08/20/18 12:42

Form 5

Method: EPA 8151A

Instrument: GC_12 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
12G18627.D	200PPB	08/06/18 11:00	Soil					
12G18628.D	CAL HERB@200PPB	08/06/18 11:55	Soil	12G1862	8.3070	0.053	8.1940	0.0073
12G18629.D	CAL HERB@50PPB	08/06/18 12:19	Soil	12G1862	8.3114	0	8.1946	0
12G18630.D	CAL HERB@100PPB	08/06/18 12:38	Soil	12G1862	8.3017	0.1168	8.1864	0.1001
12G18631.D	CAL HERB@400PPB	08/06/18 12:58	Soil	12G1862	8.3021	0.112	8.1868	0.0952
12G18632.D	CAL HERB@500PPB	08/06/18 13:17	Soil	12G1862	8.3049	0.0782	8.1893	0.0647
12G18633.D	CAL HERB@600PPB	08/06/18 13:37	Soil	12G1862	8.3025	0.1071	8.1868	0.0952
12G18634.D	ICV	08/06/18 14:09	Soil	12G1862	8.3072	0.0505	8.1887	0.072
12G18635.D	SMB69715	08/06/18 15:05	Soil	12G1862	8.3102	0.0144	8.1916	0.0366
12G18636.D	SMB69715(MS)	08/06/18 15:24	Soil	12G1862	8.3011	0.124	8.1852	0.1148
12G18637.D	WMB69725	08/06/18 15:44	Aqueous	12G1862	8.2974	0.1686	8.1823	0.1502
12G18638.D	WMB69725(MS)	08/06/18 16:03	Aqueous	12G1862	8.3016	0.118	8.1856	0.1099
12G18639.D	AD05776-002	08/06/18 16:23	Soil	12G1862	8.3032	0.0987	8.1890	0.0684
12G18640.D	AD05758-001(T)	08/06/18 16:43	Aqueous	12G1862	8.3033	0.0975	8.1890	0.0684
12G18641.D	EF-2-V-283958(8/2)	08/06/18 17:02	Aqueous	12G1862	8.2980	0.1614	8.1833	0.138
12G18642.D	AD05737-001(T)(MS)	08/06/18 17:22	Aqueous	12G1862	8.2974	0.1686	8.1817	0.1575
12G18643.D	AD05737-001(T)(MSD)	08/06/18 17:41	Aqueous	12G1862	8.2971	0.1722	8.1824	0.149
12G18644.D	AD05737-001(T)	08/06/18 18:01	Aqueous	12G1862	8.2972	0.171	8.1822	0.1514
12G18645.D	EF-1-V-284733(8/2)	08/06/18 18:21	Aqueous	12G1862	8.2971	0.1722	8.1819	0.1551
12G18646.D	CAL HERB@200PPB	08/06/18 18:40	Aqueous	12G1862	8.2979	0.1626	8.1829	0.1429
12G18647.D	AD05789-002(MS)	08/06/18 19:00	Soil	12G1864	8.2973	0.0072	8.1823	0.0073
12G18648.D	AD05789-002(MSD)	08/06/18 19:20	Soil	12G1864	8.2964	0.0181	8.1820	0.011
12G18649.D	AD05789-002	08/06/18 19:39	Soil	12G1864	8.2968	0.0133	8.1826	0.0037
12G18650.D	AD05789-004	08/06/18 19:59	Soil	12G1864	8.2962	0.0205	8.1821	0.0098
12G18651.D	AD05789-006	08/06/18 20:18	Soil	12G1864	8.2951	0.0337	8.1825	0.0049
12G18652.D	AD05789-008	08/06/18 20:38	Soil	12G1864	8.2973	0.0072	8.1830	0.0012
12G18653.D	AD05789-010	08/06/18 20:58	Soil	12G1864	8.2967	0.0145	8.1822	0.0086
12G18654.D	200PPB	08/06/18 21:17	Soil	12G1864	8.2975	0.0048	8.1822	0.0086
12G18655.D	CAL HERB@200PPB	08/06/18 21:37	Soil	12G1864	8.2977	0.0024	8.1823	0.0073

Drift Compound: Dcaa-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8151A

Instrument: GC_12 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
12G18743.D	CAL HERB@200PPB	08/20/18 11:43	Aqueous	12G1874	8.2927	0	8.1824	0
12G18744.D	SMB69832	08/20/18 12:22	Soil	12G1874	8.3076	0.1795	8.1915	0.1112
12G18745.D	SMB69832(MS)	08/20/18 12:42	Soil	12G1874	8.2956	0.035	8.1823	0.0012
12G18746.D	AD05999-001(MS)	08/20/18 13:01	Soil	12G1874	8.2924	0.0036	8.1796	0.0342
12G18747.D	AD05999-001(MSD)	08/20/18 13:20	Soil	12G1874	8.2930	0.0036	8.1812	0.0147
12G18748.D	AD05999-001	08/20/18 13:40	Soil	12G1874	8.2963	0.0434	8.1843	0.0232
12G18749.D	AD05945-014	08/20/18 13:59	Soil	12G1874	8.2954	0.0326	8.1830	0.0073
12G18750.D	AD05945-015	08/20/18 14:19	Soil	12G1874	8.2936	0.0109	8.1810	0.0171
12G18751.D	AD05965-002	08/20/18 14:38	Soil	12G1874	8.2927	0	8.1810	0.0171
12G18752.D	AD05965-004	08/20/18 14:58	Soil	12G1874	8.2922	0.006	8.1806	0.022
12G18753.D	AD05965-006	08/20/18 15:17	Soil	12G1874	8.2926	0.0012	8.1816	0.0098
12G18754.D	AD05965-008	08/20/18 15:36	Soil	12G1874	8.2925	0.0024	8.1807	0.0208
12G18755.D	AD05965-010	08/20/18 15:56	Soil	12G1874	8.2935	0.0096	8.1822	0.0024
12G18756.D	AD05965-012	08/20/18 16:15	Soil	12G1874	8.2925	0.0024	8.1812	0.0147
12G18757.D	AD06007-002	08/20/18 16:35	Soil	12G1874	8.2955	0.0338	8.1836	0.0147
12G18758.D	AD06007-004	08/20/18 16:54	Soil	12G1874	8.2936	0.0109	8.1817	0.0086
12G18759.D	CAL HERB@200PPB	08/20/18 17:14	Soil	12G1874	8.2942	0.0181	8.1821	0.0037

Drift Compound: Dcaa-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 6
Initial Calibration

Method: EPA 8151A

Instrument: GC_12

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	12G18629.D	CAL HERB@50PPB	08/06/18 12:19	2	12G18630.D	CAL HERB@100PPB	08/06/18 12:38
3	12G18628.D	CAL HERB@200PPB	08/06/18 11:55	4	12G18631.D	CAL HERB@400PPB	08/06/18 12:58
5	12G18632.D	CAL HERB@500PPB	08/06/18 13:17	6	12G18633.D	CAL HERB@600PPB	08/06/18 13:37

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Dalapon	1	0	Avg	31.852	31.217	31.032	31.618	28.180	28.350	----	----	30.4	4.63	0.994	0.997	5.5	50.00	100.0	200.0	400.0	500.0	600.0		
Dcaa-Surrogate	1	0	Avg	22.471	22.512	25.563	27.707	24.273	24.607	----	----	24.5	8.31	0.991	0.995	8.1	250.0	500.0	1000.	2000.	2500.	3000.		
Dicamba	1	0	Avg	82.795	83.019	90.163	94.606	81.955	82.768	----	----	85.9	8.46	0.989	0.995	6.1	50.00	100.0	200.0	400.0	500.0	600.0		
Dichloroprop	1	0	Avg	22.638	22.107	23.006	23.440	20.035	20.003	----	----	21.9	9.03	0.986	0.994	6.9	50.00	100.0	200.0	400.0	500.0	600.0		
2,4-D	1	0	Avg	27.574	27.279	28.818	29.191	25.086	25.029	----	----	27.2	9.33	0.987	0.995	6.6	50.00	100.0	200.0	400.0	500.0	600.0		
Silvex	1	0	Avg	121.62	123.09	137.45	145.07	123.98	126.88	----	----	130	9.92	0.988	0.993	7.3	50.00	100.0	200.0	400.0	500.0	600.0		
2,4,5-T	1	0	Avg	114.61	116.13	130.54	138.37	117.96	119.19	----	----	123	10.31	0.986	0.993	7.7	50.00	100.0	200.0	400.0	500.0	600.0		
2,4-DB	1	0	Avg	18.554	16.253	18.537	17.920	15.270	15.229	----	----	17.0	10.73	0.984	0.994	9.2	50.00	100.0	200.0	400.0	500.0	600.0		
Dinoseb	1	0	Avg	74.135	67.990	83.028	87.647	75.497	74.676	----	----	77.2	11.23	0.985	0.994	9.1	50.00	100.0	200.0	400.0	500.0	600.0		
Picloram	1	0	Avg	142.83	141.55	173.56	187.51	173.15	175.23	----	----	166	12.25	0.996	0.998	11	50.00	100.0	200.0	400.0	500.0	600.0		
Dalapon	2	0	Avg	9.9485	9.2934	9.6218	9.4052	8.4629	8.4248	----	----	9.19	4.41	0.994	0.998	6.8	50.00	100.0	200.0	400.0	500.0	600.0		
Dcaa-Surrogate	2	0	Avg	7.0278	6.8469	7.6809	7.7211	6.6345	6.6760	----	----	7.10	8.19	0.987	0.995	6.9	250.0	500.0	1000.	2000.	2500.	3000.		
Dicamba	2	0	Avg	25.950	25.288	27.762	27.382	23.471	23.373	----	----	25.5	8.38	0.985	0.995	7.3	50.00	100.0	200.0	400.0	500.0	600.0		
Dichloroprop	2	0	Avg	7.3420	6.9789	7.3080	7.0813	5.9973	5.9518	----	----	6.78	8.77	0.983	0.994	9.4	50.00	100.0	200.0	400.0	500.0	600.0		
2,4-D	2	0	Avg	9.0639	8.5318	9.1742	8.8313	7.4514	7.4141	----	----	8.41	9.10	0.982	0.994	9.4	50.00	100.0	200.0	400.0	500.0	600.0		
Silvex	2	0	Avg	38.137	37.496	41.259	40.663	34.594	34.544	----	----	37.8	9.62	0.984	0.994	7.6	50.00	100.0	200.0	400.0	500.0	600.0		
2,4,5-T	2	0	Avg	34.877	34.911	36.486	37.719	32.510	32.507	----	----	34.8	10.04	0.992	0.996	6.0	50.00	100.0	200.0	400.0	500.0	600.0		
2,4-DB	2	0	Avg	5.1090	4.9351	5.3706	5.2595	4.4494	4.4275	----	----	4.93	10.40	0.983	0.994	8.2	50.00	100.0	200.0	400.0	500.0	600.0		
Dinoseb	2	0	Avg	25.817	23.143	26.860	26.719	22.354	22.409	----	----	24.6	10.13	0.981	0.992	8.7	50.00	100.0	200.0	400.0	500.0	600.0		
Picloram	2	0	Avg	44.774	43.374	51.687	51.992	47.064	47.206	----	----	47.7	12.05	0.994	0.997	7.4	50.00	100.0	200.0	400.0	500.0	600.0		

Avg Rsd Col 1: 7.78 Avg Rsd Col 2: 7.77

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

8081617 0167

Form7
Continuing Calibration

Method: EPA 8151A

Data File:				12G18743.D			12G18759.D												
Method:				8151			8151												
Calibration Name:				CAL HERB@200P			CAL HERB@200P												
Calibration Date/Time				08/20/18 11:43			08/20/18 17:14												
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
Dalapon	15	1	0	199.6	200	0.2	206.8	200	3.4									
Dcaa-Surrogate	15	1	0	1072	1000	7.2	1070	1000	7.0									
Dicamba	15	1	0	221.7	200	10.9	218.4	200	9.2									
Dichloroprop	15	1	0	218.3	200	9.2	217.9	200	8.9									
2,4-D	15	1	0	222.5	200	11.2	211.2	200	5.6									
Silvex	15	1	0	220.7	200	10.4	214.1	200	7.0									
2,4,5-T	15	1	0	220.1	200	10.0	214.1	200	7.0									
2,4-DB	15	1	0	216	200	8.0	214.3	200	7.2									
Dinoseb	15	1	0	242.1	200	21.0*	227.9	200	14.0									
Picloram	15	1	0	203.7	200	1.8	207.0	200	3.5									
Average Difference	15	1	0			9.0			7.3									
Dalapon	15	2	0	196.8	200	1.6	198.8	200	0.6									
Dcaa-Surrogate	15	2	0	1082	1000	8.2	1069	1000	6.9									
Dicamba	15	2	0	220.2	200	10.1	213.5	200	6.7									
Dichloroprop	15	2	0	220.4	200	10.2	210	200	5.0									
2,4-D	15	2	0	220.7	200	10.4	207.4	200	3.7									
Silvex	15	2	0	223.7	200	11.8	216.6	200	8.3									
2,4,5-T	15	2	0	208.3	200	4.1	209.8	200	4.9									
2,4-DB	15	2	0	226.8	200	13.4	217.3	200	8.7									
Dinoseb	15	2	0	250	200	25.0*	230.3	200	15.2									
Picloram	15	2	0	209.4	200	4.7	212.3	200	6.2									
Average Difference	15	2	0			10.0			6.6									

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8151A

Data File:			12G18629.D		12G18743.D							
Calibration Name:			CAL HERB@50PPB		CAL HERB@200PPB							
Calibration Date/Time			8/6/2018 12:19:20 PM		8/20/2018 11:43:09 AM							
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
Dalapon	1	0	4.63	(4.59 - 4.67)	4.63	(4.59 - 4.67)						
Dcaa-Surrogate	1	0										
Dicamba	1	0	8.45	(8.41 - 8.49)	8.44	(8.40 - 8.48)						
Dichloroprop	1	0	9.03	(8.99 - 9.07)	9.01	(8.97 - 9.05)						
2,4-D	1	0	9.33	(9.29 - 9.37)	9.32	(9.28 - 9.36)						
Silvex	1	0	9.92	(9.88 - 9.96)	9.91	(9.87 - 9.95)						
2,4,5-T	1	0	10.31	(10.27 - 10.35)	10.30	(10.26 - 10.34)						
2,4-DB	1	0	10.73	(10.69 - 10.77)	10.72	(10.68 - 10.76)						
Dinoseb	1	0	11.23	(11.19 - 11.27)	11.22	(11.18 - 11.26)						
Picloram	1	0	12.25	(12.21 - 12.29)	12.24	(12.20 - 12.28)						
Dalapon	2	0	4.41	(4.37 - 4.45)	4.41	(4.37 - 4.45)						
Dcaa-Surrogate	2	0										
Dicamba	2	0	8.37	(8.33 - 8.41)	8.36	(8.32 - 8.40)						
Dichloroprop	2	0	8.77	(8.73 - 8.81)	8.76	(8.72 - 8.80)						
2,4-D	2	0	9.10	(9.06 - 9.14)	9.09	(9.05 - 9.13)						
Silvex	2	0	9.61	(9.57 - 9.65)	9.61	(9.57 - 9.65)						
2,4,5-T	2	0	10.04	(10.00 - 10.08)	10.03	(9.99 - 10.07)						
2,4-DB	2	0	10.40	(10.36 - 10.44)	10.40	(10.36 - 10.44)						
Dinoseb	2	0	10.13	(10.09 - 10.17)	10.12	(10.08 - 10.16)						
Picloram	2	0	12.05	(12.01 - 12.09)	12.05	(12.01 - 12.09)						

Metal Data

Form1
Inorganic Analysis Data Sheet

Sample ID:	AD05999-001	% Solid:	95	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SS-1	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	8/16/2018	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	210	610	1	1	100	08/24/18	70604	S22993A2	16	P	PEICPRAD2A
7440-39-3	Barium	11	ND	1	1	100	08/24/18	70604	S22993A3	16	P	PEICP3A
7440-70-2	Calcium	1100	1100	1	1	100	08/24/18	70604	S22993A2	16	P	PEICPRAD2A
7440-47-3	Chromium	5.3	ND	1	1	100	08/24/18	70604	S22993A3	16	P	PEICP3A
7440-48-4	Cobalt	2.6	ND	1	1	100	08/24/18	70604	S22993A3	16	P	PEICP3A
7440-50-8	Copper	5.3	ND	1	1	100	08/24/18	70604	S22993A3	16	P	PEICP3A
7439-89-6	Iron	210	1400	1	1	100	08/24/18	70604	S22993A2	16	P	PEICPRAD2A
7439-92-1	Lead	5.3	ND	1	1	100	08/24/18	70604	S22993A3	16	P	PEICP3A
7439-95-4	Magnesium	530	730	1	1	100	08/24/18	70604	S22993A2	16	P	PEICPRAD2A
7439-96-5	Manganese	11	18	1	1	100	08/24/18	70604	S22993A3	16	P	PEICP3A
7439-97-6	Mercury	0.088	ND	1	0.15	25	08/23/18	70604	H22993S	16	CV	HGCV1A
7440-02-0	Nickel	5.3	ND	1	1	100	08/24/18	70604	S22993A3	16	P	PEICP3A
7440-09-7	Potassium	530	ND	1	1	100	08/24/18	70604	S22993A2	16	P	PEICPRAD2A
7440-23-5	Sodium	260	ND	1	1	100	08/24/18	70604	S22993A2	16	P	PEICPRAD2A
7440-62-2	Vanadium	11	ND	1	1	100	08/24/18	70604	S22993A3	16	P	PEICP3A
7440-66-6	Zinc	11	ND	1	1	100	08/24/18	70604	S22993A3	16	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AD05999-001	% Solid:	95	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SS-1	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	8/16/2018	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.84	ND	1	0.5	100	08/24/18	706052318BNEW		55	MS	MS3_7700SWA
7440-38-2	Arsenic	0.21	0.39	1	0.5	100	08/24/18	706052318BNEW		55	MS	MS3_7700SWA
7440-41-7	Beryllium	0.21	ND	1	0.5	100	08/24/18	706052318BNEW		55	MS	MS3_7700SWA
7440-43-9	Cadmium	0.42	ND	1	0.5	100	08/24/18	706052318BNEW		55	MS	MS3_7700SWA
7782-49-2	Selenium	2.1	ND	1	0.5	100	08/24/18	706052318BNEW		55	MS	MS3_7700SWA
7440-22-4	Silver	0.21	ND	1	0.5	100	08/24/18	706052318BNEW		55	MS	MS3_7700SWA
7440-28-0	Thallium	0.42	ND	1	0.5	100	08/24/18	706052318BNEW		55	MS	MS3_7700SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 70604 (100) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 70604 (100) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	0.5	50	08/24/18	70604	S22993A2	13	P	PEICPRAD2A
7440-36-0	Antimony	4.0	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-39-3	Barium	10	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-41-7	Beryllium	1.2	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-70-2	Calcium	1000	ND	1	0.5	50	08/24/18	70604	S22993A2	13	P	PEICPRAD2A
7440-47-3	Chromium	5.0	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-48-4	Cobalt	2.5	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-50-8	Copper	5.0	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7439-89-6	Iron	200	ND	1	0.5	50	08/24/18	70604	S22993A2	13	P	PEICPRAD2A
7439-92-1	Lead	5.0	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7439-95-4	Magnesium	500	ND	1	0.5	50	08/24/18	70604	S22993A2	13	P	PEICPRAD2A
7439-96-5	Manganese	10	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7439-98-7	Molybdenum	2.5	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-02-0	Nickel	5.0	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-09-7	Potassium	500	ND	1	0.5	50	08/24/18	70604	S22993A2	13	P	PEICPRAD2A
7440-23-5	Sodium	250	ND	1	0.5	50	08/24/18	70604	S22993A2	13	P	PEICPRAD2A
7440-28-0	Thallium	5.0	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-31-5	Tin	20	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-32-6	Titanium	10	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-62-2	Vanadium	10	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-66-6	Zinc	10	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A

Comments:

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 70605 (100) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 70605 (100) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.80	ND	1	0.5	100	08/24/18	70605	2318BNEW	52	MS	MS3_7700SWA
7440-38-2	Arsenic	0.20	ND	1	0.5	100	08/24/18	70605	2318BNEW	52	MS	MS3_7700SWA
7440-41-7	Beryllium	0.20	ND	1	0.5	100	08/24/18	70605	2318BNEW	52	MS	MS3_7700SWA
7440-43-9	Cadmium	0.40	ND	1	0.5	100	08/24/18	70605	2318BNEW	52	MS	MS3_7700SWA
7782-49-2	Selenium	2.0	ND	1	0.5	100	08/24/18	70605	2318BNEW	52	MS	MS3_7700SWA
7440-22-4	Silver	0.20	ND	1	0.5	100	08/24/18	70605	2318BNEW	52	MS	MS3_7700SWA
7440-28-0	Thallium	0.40	ND	1	0.5	100	08/24/18	70605	2318BNEW	52	MS	MS3_7700SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 70604 (167) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 70604 (167) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.083	ND	1	0.15	25	08/23/18	70604	H22993S	11	CV	HGCV1A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM 2
(ICV/CCV Summary)

Date Analyzed: 08/23/18
Data File: S082318BNEW
Prep Batch: 70605
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-285828-8	Rec	CCV V-285832-16	Rec	CCV V-285832-28	Rec	CCV V-285832-40	Rec	CCV V-285832-50	Rec	CCV V-285832-62	Rec	CCV V-285832-74	Rec	CCV V-285832-81	Rec
Antimony	50/50	50.57300	101	50.94500	102	50.83500	102	50.81700	102	51.19200	102	52.43800	105	50.27900	101	49.55800	99
Arsenic	50/50	52.05600	104	50.93700	102	50.84300	102	51.17200	102	50.23700	100	50.75300	102	45.68100	91	49.99300	100
Beryllium	50/50	52.04800	104	50.30700	101	49.96900	100	49.39300	99	50.32200	101	52.34600	105	49.53900	99	47.51800	95
Cadmium	50/50	52.54700	105	50.71600	101	51.08700	102	50.90600	102	51.37300	103	52.80200	106	50.68000	101	50.16200	100
Selenium	50/250	52.43100	105	254.15700	102	256.49700	103	256.11100	102	252.35700	101	252.94700	101	229.81500	92	249.59500	100
Silver	10/50	10.21700	102	50.87700	102	51.47000	103	51.22900	102	51.69100	103	53.01700	106	51.28600	103	50.44600	101
Thallium	50/50	52.67100	105	52.34400	105	52.39400	105	52.27000	105	53.39900	107	54.40400	109	52.77000	106	52.05400	104

Notes:
a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits:
ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 08/23/18
Data File: S082318BNEW
Prep Batch: ~~70615~~ 70605 CB 9/6/18
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-285833	Recovery	Low Limit	High Limit		LRS Spike Amount	LRS V-285831	Recovery	Low Limit	High Limit	
Copper	10	10.308	103	80	120		500	498.893	100	90	110	
Sodium	500	492.599	99	80	120		50000	52427.078	105	90	110	
Magnesium	500	523.545	105	80	120		50000	51658.191	103	90	110	
Aluminum	500	511.608	102	80	120		15000	15283.207	102	90	110	
Potassium	500	516.807	103	80	120		50000	51603.186	103	90	110	
Calcium	500	510.225	102	80	120		50000	53014.017	106	90	110	
Vanadium	1	1.036	104	80	120		500	524.446	105	90	110	
Chromium	2	2.078	104	80	120		500	512.497	102	90	110	
Manganese	6	6.128	102	80	120		500	511.128	102	90	110	
Iron	500	510.105	102	80	120		50000	51019.799	102	90	110	
Beryllium	1	1.045	104	80	120		500	527.561	106	90	110	
Nickel	3	3.153	105	80	120		500	498.446	100	90	110	
Lead	2	2.040	102	80	120		500	504.137	101	90	110	
Zinc	20	20.029	100	80	120		500	485.204	97	90	110	
Arsenic	1	1.046	105	80	120		500	539.674	108	90	110	
Selenium	10	10.497	105	80	120		2500	2613.705	105	90	110	
Molybdenum	1	1.037	104	80	120		500	549.661	110	90	110	
Silver	1	1.018	102	80	120		500	514.498	103	90	110	
Cadmium	2	1.972	99	80	120		500	524.703	105	90	110	
Antimony	4	4.226	106	80	120		500	537.369	107	90	110	
Barium	5	5.050	101	80	120		500	525.984	105	90	110	
Thallium	2	2.029	101	80	120		500	506.060	101	90	110	
Cobalt	2	2.023	101	80	120		500	501.744	100	90	110	

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 08/24/18
Data File: S22993A2
Prep Batch: 70604
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-282698-5	Rec	CCV V-282698-11	Rec	CCV V-282698-22	Rec	CCV V-282698-31	Rec	CCV V-282698-41	Rec		Rec		Rec		Rec
Aluminum	5/5	4.95850	99	5.05266	101	5.00161	100	5.04582	101	5.00360	100						
Calcium	50/50	50.61330	101	51.21670	102	51.49600	103	51.45760	103	51.07640	102						
Iron	5/5	4.77135	95	4.83630	97	4.84372	97	4.85921	97	4.86034	97						
Magnesium	50/50	51.33300	103	52.04960	104	51.79800	104	51.73240	103	51.78590	104						
Potassium	50/50	49.54330	99	51.27680	103	49.90550	100	49.27250	99	48.43290	97						
Sodium	50/50	50.64260	101	51.80820	104	50.49080	101	50.07060	100	49.46380	99						

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 08/24/18
Data File: S22993A2
Prep Batch: 70604
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-281815	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-283372	Recovery	Low Limit	High Limit
Manganese	0.1	0.100195	100	80	120	10	9.56245	96	90	110
Aluminum	2.0	2.05076	103	80	120	500	491.366	98	90	110
Boron	0.2	0.214979	107	80	120	5	4.41883	88 a	90	110
Barium	0.1	0.101676	102	80	120	20	18.8298	94	90	110
Calcium	10	10.2347	102	80	120	500	470.454	94	90	110
Copper	0.05	0.0461992	92	80	120	10	9.81311	98	90	110
Iron	2.0	1.96229	98	80	120	400	393.515	98	90	110
Silicon	0.1	0.113837	114	80	120	25	24.3027	97	90	110
Magnesium	5.0	5.17999	104	80	120	500	462.340	92	90	110
Zinc	0.1	0.101608	102	80	120	10	9.43071	94	90	110
Molybdenum	0.025	0.0201297	81	80	120	20	18.6733	93	90	110
Sodium	2.5	2.72891	109	80	120	1000	962.600	96	90	110
Nickel	0.05	0.0501826	100	80	120	20	18.7575	94	90	110
Selenium	0.05	0.0566964	113	80	120	20	20.5930	103	90	110
Tin	0.2	0.211872	106	80	120	10	9.15185	92	90	110
Titanium	0.1	0.101992	102	80	120	10	9.70859	97	90	110
Vanadium	0.1	0.100207	100	80	120	20	19.3579	97	90	110
Potassium	5.0	5.76682	115	80	120	500	525.860	105	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 08/24/18
Data File: S22993A3
Prep Batch: 70604
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-285444-5	Rec	CCV V-285444-11	Rec	CCV V-285444-22	Rec	CCV V-285444-33	Rec	CCV V-285444-45	Rec	CCV V-285444-51	Rec		Rec		Rec
Barium	.5/.5	0.49085	98	0.46607	93	0.48695	97	0.45620	91	0.45254	91	0.44736	89 c				
Chromium	.5/.5	0.50078	100	0.47784	96	0.49944	100	0.47034	94	0.47173	94	0.46882	94				
Cobalt	.5/.5	0.51476	103	0.48904	98	0.51505	103	0.48283	97	0.47702	95	0.47574	95				
Copper	.5/.5	0.51091	102	0.48356	97	0.51119	102	0.48518	97	0.49518	99	0.49192	98				
Lead	.5/.5	0.49799	100	0.47461	95	0.49635	99	0.46654	93	0.46354	93	0.46104	92				
Manganese	.5/.5	0.49333	99	0.46982	94	0.48974	98	0.46208	92	0.46310	93	0.45805	92				
Nickel	.5/.5	0.51795	104	0.49322	99	0.51896	104	0.48610	97	0.48117	96	0.48368	97				
Vanadium	.5/.5	0.51046	102	0.48522	97	0.50722	101	0.47776	96	0.48081	96	0.47960	96				
Zinc	.5/.5	0.50954	102	0.47820	96	0.50737	101	0.47467	95	0.46314	93	0.46551	93				

Notes:
a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits:
ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 08/24/18
Data File: S22993A3
Prep Batch: 70604
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-285929	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-285664	Recovery	Low Limit	High Limit
Magnesium	5.0	4.98051	100	80	120	500	490.902	98	90	110
Silver	0.015	0.0151451	101	80	120	0.8	0.812244	102	90	110
Aluminum	2.0	1.86055	93	80	120	500	524.251	105	90	110
Arsenic	0.04	0.0382359	96	80	120	20	20.6894	103	90	110
Boron	0.2	0.198210	99	80	120	5	3.87760	78 a	90	110
Barium	0.1	0.0934684	93	80	120	20	19.6128	98	90	110
Beryllium	0.012	0.0125613	105	80	120	2	1.89962	95	90	110
Calcium	10	9.55008	96	80	120	500	476.159	95	90	110
Cadmium	0.012	0.0080298	67 a	80	120	10	10.2785	103	90	110
Cobalt	0.025	0.0215498	86	80	120	20	19.0708	95	90	110
Chromium	0.05	0.0489980	98	80	120	20	18.9390	95	90	110
Copper	0.05	0.0573797	115	80	120	10	10.3090	103	90	110
Silicon	0.1	0.100410	100	80	120	25	22.0027	88 a	90	110
Potassium	NA	8.02727		80	120	500	4323.92	865 a	90	110
Zinc	0.1	0.0889962	89	80	120	10	9.37291	94	90	110
Manganese	0.1	0.0954599	95	80	120	10	9.51482	95	90	110
Molybdenum	0.025	0.0258050	103	80	120	20	18.7704	94	90	110
Sodium	NA	2.97972		80	120	1000	1424.84	142 a	90	110
Nickel	0.05	0.0439150	88	80	120	20	18.3832	92	90	110
Lead	0.05	0.0512586	103	80	120	20	18.9954	95	90	110
Antimony	0.04	0.0390740	98	80	120	20	20.1360	101	90	110
Selenium	0.05	0.0457948	92	80	120	20	19.6541	98	90	110
Tin	0.2	0.198335	99	80	120	10	10.2737	103	90	110
Titanium	0.1	0.0962652	96	80	120	10	9.71554	97	90	110
Thallium	0.05	0.0433586	87	80	120	20	18.3585	92	90	110
Vanadium	0.1	0.0951385	95	80	120	20	18.9789	95	90	110
Iron	2.0	1.89885	95	80	120	400	390.358	98	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 08/23/18
Data File: H22993S
Prep Batch: 70604
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV1A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV (2)-9	Rec	CCV-21	Rec	CCV-33	Rec	CCV-37	Rec	Rec	Rec	Rec	Rec
Mercury	20/10	20.40030	102	10.22799	102	10.27335	103	10.17527	102				

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 08/23/18
Data File: S082318BNEW
Prep Batch: 70605
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-285829-10	CCB V-285829-17	CCB V-285829-29	CCB V-285829-41	CCB V-285829-51	CCB V-285829-63	CCB V-285829-75	CCB V-285829-82
Antimony	2 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Arsenic	.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Beryllium	.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cadmium	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Selenium	5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Silver	.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Thallium	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U

Analyte	MB 70605 (100)-52
Antimony	400 U
Arsenic	100 U
Beryllium	100 U
Cadmium	200 U
Selenium	1000 U
Silver	100 U
Thallium	200 U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 08/24/18
Data File: S22993A2
Prep Batch: 70604
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-282340-6	CCB V-282340-12	CCB V-282340-23	CCB V-282340-32	CCB V-282340-42	MB 70604 (100)-13
Aluminum	1 U	2 U	2 U	2 U	2 U	100 U
Calcium	5 U	10 U	10 U	10 U	10 U	500 U
Iron	1 U	2 U	2 U	2 U	2 U	100 U
Magnesium	2.5 U	5 U	5 U	5 U	5 U	250 U
Potassium	2.5 U	5 U	5 U	5 U	5 U	250 U
Sodium	1.25 U	2.5 U	2.5 U	2.5 U	2.5 U	125 U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 08/24/18
Data File: S22993A3
Prep Batch: 70604
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-283171-6	CCB V-283171-12	CCB V-283171-23	CCB V-283171-34	CCB V-283171-46	CCB V-283171-52	MB 70604 (100)-13
Barium	.05 U	.1 U	.1 U	.1 U	.1 U	.1 U	5 U
Chromium	.025 U	.05 U	.05 U	.05 U	.05 U	.05 U	2.5 U
Cobalt	.0125 U	.025 U	.025 U	.025 U	.025 U	.025 U	1.3 U
Copper	.025 U	.05 U	.05 U	.05 U	.05 U	.05 U	2.5 U
Lead	.025 U	.05 U	.05 U	.05 U	.05 U	.05 U	2.5 U
Manganese	.05 U	.1 U	.1 U	.1 U	.1 U	.1 U	5 U
Nickel	.025 U	.05 U	.05 U	.05 U	.05 U	.05 U	2.5 U
Vanadium	.05 U	.1 U	.1 U	.1 U	.1 U	.1 U	5 U
Zinc	.05 U	.1 U	.1 U	.1 U	.1 U	.1 U	5 U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 08/23/18
Data File: H22993S
Prep Batch: 70604
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV1A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB-10	CCB-22	CCB-34	CCB-38	MB 70604 (167)-11		
Mercury	.5 U	.5 U	.5 U	.5 U	83 U		

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 08/23/18
Data File: S082318BNEW
Prep Batch: 70605
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-285830-13	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	50000	48817.92	98							
Antimony	0	U								
Arsenic	0	U								
Beryllium	0	U								
Cadmium	0	U								
Calcium	150000	153896.6	103							
Iron	125000	124469.4	100							
Magnesium	50000	49508.79	99							
Selenium	0	U								
Silver	0	U								
Thallium	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 08/24/18
Data File: S22993A2
Prep Batch: 70604
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-282430-10	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	500	499.947	100							
Calcium	500	494.852	99							
Iron	200	196.229	98							
Magnesium	500	496.902	99							
Sodium	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 08/24/18
Data File: S22993A3
Prep Batch: 70604
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-285079-10	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	500	484.78	97							
Barium	0	U								
Calcium	500	466.513	93							
Chromium	0	U								
Cobalt	0	U								
Copper	0	U								
Iron	200	184.355	92							
Lead	0	U								
Magnesium	500	494.143	99							
Manganese	0	U								
Nickel	0	U								
Vanadium	0	U								
Zinc	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 70604

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 70604

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	70604	1	S22993A2	15	75.5644	87.2	87		52	148
Barium	70604	1	S22993A3	15	1.6612	1.83	91		82	119
Calcium	70604	1	S22993A2	15	43.3925	46.0	94		81	119
Chromium	70604	1	S22993A3	15	0.6083	0.649	94		81	119
Cobalt	70604	1	S22993A3	15	0.4362	0.450	97		84	116
Copper	70604	1	S22993A3	15	1.0876	1.13	96		83	117
Iron	70604	1	S22993A2	15	136.6090	136	100		59	141
Lead	70604	1	S22993A3	15	1.5272	1.61	95		81	119
Magnesium	70604	1	S22993A2	15	22.0593	23.1	95		76	124
Manganese	70604	1	S22993A3	15	1.9131	2.19	87		82	119
Mercury	70604	5	H22993S	15	14.7642	70.8	104		70	130
Nickel	70604	1	S22993A3	15	1.3989	1.47	95		82	118
Potassium	70604	1	S22993A2	15	19.3101	20.3	95		70	130
Sodium	70604	1	S22993A2	15	25.1531	24.3	104		73	126
Vanadium	70604	1	S22993A3	15	1.1205	1.25	90		78	122
Zinc	70604	1	S22993A3	15	1.0983	1.21	91		80	119

TxtQcType: LCS Matrix: SOIL SampleID: LCS 70604

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	70604	1	S22993A2	14	73.6207	87.2	84		52	148
Barium	70604	1	S22993A3	14	1.6408	1.83	90		82	119
Calcium	70604	1	S22993A2	14	41.3278	46.0	90		81	119
Chromium	70604	1	S22993A3	14	0.5894	0.649	91		81	119
Cobalt	70604	1	S22993A3	14	0.4302	0.450	96		84	116
Copper	70604	1	S22993A3	14	1.0683	1.13	95		83	117
Iron	70604	1	S22993A2	14	133.8560	136	98		59	141
Lead	70604	1	S22993A3	14	1.5028	1.61	93		81	119
Magnesium	70604	1	S22993A2	14	21.3796	23.1	93		76	124
Manganese	70604	1	S22993A3	14	1.8916	2.19	86		82	119
Mercury	70604	5	H22993S	14	13.9133	70.8	98		70	130
Nickel	70604	1	S22993A3	14	1.3779	1.47	94		82	118
Potassium	70604	1	S22993A2	14	19.2020	20.3	95		70	130
Sodium	70604	1	S22993A2	14	24.0957	24.3	99		73	126
Vanadium	70604	1	S22993A3	14	1.1018	1.25	88		78	122
Zinc	70604	1	S22993A3	14	1.0964	1.21	91		80	119

TxtQcType: MSD Matrix: SOIL SampleID: AD05999-001

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	70604	1	S22993A2	19	S22993A2	16	12.5238	5.7971	5.0	135	a	75	125
Barium	70604	1	S22993A3	19	S22993A3	16	0.4984	0.1U	0.5	100		75	125
Calcium	70604	1	S22993A2	19	S22993A2	16	50.5624	10.1886	50	81		75	125
Chromium	70604	1	S22993A3	19	S22993A3	16	0.4920	0.05U	0.5	98		75	125
Cobalt	70604	1	S22993A3	19	S22993A3	16	0.4885	0.025U	0.5	98		75	125
Copper	70604	1	S22993A3	19	S22993A3	16	0.4985	0.05U	0.5	100		75	125
Iron	70604	1	S22993A2	19	S22993A2	16	24.6525	13.3407	5.0	226	a	75	125
Lead	70604	1	S22993A3	19	S22993A3	16	0.4794	0.05U	0.5	96		75	125
Magnesium	70604	1	S22993A2	19	S22993A2	16	51.2276	6.9691	50	89		75	125
Manganese	70604	1	S22993A3	19	S22993A3	16	0.7375	0.1736	0.5	113		75	125
Mercury	70604	1	H22993S	19	H22993S	16	10.2438	.5U	10	102		75	125
Nickel	70604	1	S22993A3	19	S22993A3	16	0.4961	0.05U	0.5	99		75	125
Potassium	70604	1	S22993A2	19	S22993A2	16	48.5644	5U	50	97		75	125
Sodium	70604	1	S22993A2	19	S22993A2	16	48.9376	2.5U	50	98		75	125
Vanadium	70604	1	S22993A3	19	S22993A3	16	0.5202	0.1U	0.5	104		75	125
Zinc	70604	1	S22993A3	19	S22993A3	16	0.5153	0.1U	0.5	103		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 70604

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MS Matrix: SOIL SampleID: AD05999-001

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	70604	1	S22993A2	18	S22993A2	16	10.9998	5.7971	5.000	104		75	125
Barium	70604	1	S22993A3	18	S22993A3	16	0.4997	0.1U	0.5	100		75	125
Calcium	70604	1	S22993A2	18	S22993A2	16	50.6709	10.1886	50.000	81		75	125
Chromium	70604	1	S22993A3	18	S22993A3	16	0.5068	0.05U	0.5	101		75	125
Cobalt	70604	1	S22993A3	18	S22993A3	16	0.4906	0.025U	0.5	98		75	125
Copper	70604	1	S22993A3	18	S22993A3	16	0.5084	0.05U	0.5	102		75	125
Iron	70604	1	S22993A2	18	S22993A2	16	21.0229	13.3407	5.000	154	a	75	125
Lead	70604	1	S22993A3	18	S22993A3	16	0.4738	0.05U	0.5	95		75	125
Magnesium	70604	1	S22993A2	18	S22993A2	16	51.3202	6.9691	50.000	89		75	125
Manganese	70604	1	S22993A3	18	S22993A3	16	0.6576	0.1736	0.5	97		75	125
Mercury	70604	1	H22993S	18	H22993S	16	10.3985	.5U	10	104		75	125
Nickel	70604	1	S22993A3	18	S22993A3	16	0.4978	0.05U	0.5	100		75	125
Potassium	70604	1	S22993A2	18	S22993A2	16	49.3918	5U	50.00	99		75	125
Sodium	70604	1	S22993A2	18	S22993A2	16	49.8599	2.5U	50.00	100		75	125
Vanadium	70604	1	S22993A3	18	S22993A3	16	0.5156	0.1U	0.5	103		75	125
Zinc	70604	1	S22993A3	18	S22993A3	16	0.4963	0.1U	0.5	99		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 70604

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD05999-001

Analyte	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	1	S22993A2	20	S22993A2	16	10.8209	5.7971	5.0	100		75	125
Barium	1	S22993A3	20	S22993A3	16	0.5339	0.1U	0.50	107		75	125
Calcium	1	S22993A2	20	S22993A2	16	61.6854	10.1886	50	103		75	125
Chromium	1	S22993A3	20	S22993A3	16	0.5305	0.05U	0.50	106		75	125
Cobalt	1	S22993A3	20	S22993A3	16	0.5243	0.025U	0.50	105		75	125
Copper	1	S22993A3	20	S22993A3	16	0.5285	0.05U	0.50	106		75	125
Iron	1	S22993A2	20	S22993A2	16	18.1878	13.3407	5.0	97		75	125
Lead	1	S22993A3	20	S22993A3	16	0.5088	0.05U	0.50	102		75	125
Magnesium	1	S22993A2	20	S22993A2	16	57.8714	6.9691	50	102		75	125
Manganese	1	S22993A3	20	S22993A3	16	0.6765	0.1736	0.50	101		75	125
Nickel	1	S22993A3	20	S22993A3	16	0.5348	0.05U	0.50	107		75	125
Potassium	1	S22993A2	20	S22993A2	16	52.6585	5U	50	105		75	125
Sodium	1	S22993A2	20	S22993A2	16	52.1080	2.5U	50	104		75	125
Vanadium	1	S22993A3	20	S22993A3	16	0.5469	0.1U	0.50	109		75	125
Zinc	1	S22993A3	20	S22993A3	16	0.5338	0.1U	0.50	107		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 70605

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 70605

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	70605	1	S082318B	54	24.3010	94.1	26		0.021	206
Arsenic	70605	1	S082318B	54	61.1710	58.5	105		83	117
Beryllium	70605	1	S082318B	54	59.6850	59.7	100		83	118
Cadmium	70605	1	S082318B	54	269.0190	249	108		82	118
Selenium	70605	1	S082318B	54	155.0720	145	107		78	121
Silver	70605	1	S082318B	54	55.2150	51.0	108		79	121
Thallium	70605	1	S082318B	54	203.0550	188	108		80	120

TxtQcType: LCS Matrix: SOIL SampleID: LCS 70605

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	70605	1	S082318B	53	24.5290	94.1	26		0.021	206
Arsenic	70605	1	S082318B	53	60.0520	58.5	103		83	117
Beryllium	70605	1	S082318B	53	56.7630	59.7	95		83	118
Cadmium	70605	1	S082318B	53	263.1360	249	106		82	118
Selenium	70605	1	S082318B	53	150.6230	145	104		78	121
Silver	70605	1	S082318B	53	54.1690	51.0	106		79	121
Thallium	70605	1	S082318B	53	203.4530	188	108		80	120

TxtQcType: MSD Matrix: SOIL SampleID: AD05999-001

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	70605	1	S082318B	58	S082318B	55	202.0970	4U	250	81		75	125
Arsenic	70605	1	S082318B	58	S082318B	55	213.3350	1.8490	250	85		75	125
Beryllium	70605	1	S082318B	58	S082318B	55	199.2510	1U	250	80		75	125
Cadmium	70605	1	S082318B	58	S082318B	55	215.1880	2U	250	86		75	125
Selenium	70605	1	S082318B	58	S082318B	55	212.4530	10U	250	85		75	125
Silver	70605	1	S082318B	58	S082318B	55	37.2330	1U	50	74	a	75	125
Thallium	70605	1	S082318B	58	S082318B	55	215.2220	2U	250	86		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD05999-001

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	70605	1	S082318B	57	S082318B	55	182.2480	4U	250	73	a	75	125
Arsenic	70605	1	S082318B	57	S082318B	55	205.4420	1.8490	250	81		75	125
Beryllium	70605	1	S082318B	57	S082318B	55	185.5830	1U	250	74	a	75	125
Cadmium	70605	1	S082318B	57	S082318B	55	209.1600	2U	250	84		75	125
Selenium	70605	1	S082318B	57	S082318B	55	202.4520	10U	250	81		75	125
Silver	70605	1	S082318B	57	S082318B	55	37.0480	1U	50	74	a	75	125
Thallium	70605	1	S082318B	57	S082318B	55	207.9690	2U	250	83		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 70605

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD05999-001

Analyte	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	1	S082318B	59	S082318B	55	50.3900	4U	50	101		75	125
Arsenic	1	S082318B	59	S082318B	55	51.9980	1.8490	50	100		75	125
Beryllium	1	S082318B	59	S082318B	55	45.8400	1U	50	92		75	125
Cadmium	1	S082318B	59	S082318B	55	49.7360	2U	50	99		75	125
Selenium	1	S082318B	59	S082318B	55	246.6980	10U	250	99		75	125
Silver	1	S082318B	59	S082318B	55	50.6190	1U	50	101		75	125
Thallium	1	S082318B	59	S082318B	55	51.3450	2U	50	103		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 70604

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 70604

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Aluminum	70604	S22993A2	15	S22993A2	14	75.5644	73.6207	2.6		20
Barium	70604	S22993A3	15	S22993A3	14	1.6612	1.6408	1.2		20
Calcium	70604	S22993A2	15	S22993A2	14	43.3925	41.3278	4.9		20
Chromium	70604	S22993A3	15	S22993A3	14	0.6083	0.5894	3.1		20
Cobalt	70604	S22993A3	15	S22993A3	14	0.4362	0.4302	1.4		20
Copper	70604	S22993A3	15	S22993A3	14	1.0876	1.0683	1.8		20
Iron	70604	S22993A2	15	S22993A2	14	136.6090	133.8560	2		20
Lead	70604	S22993A3	15	S22993A3	14	1.5272	1.5028	1.6		20
Magnesium	70604	S22993A2	15	S22993A2	14	22.0593	21.3796	3.1		20
Manganese	70604	S22993A3	15	S22993A3	14	1.9131	1.8916	1.1		20
Mercury	70604	H22993S	15	H22993S	14	14.7642	13.9133	5.9		20
Nickel	70604	S22993A3	15	S22993A3	14	1.3989	1.3779	1.5		20
Potassium	70604	S22993A2	15	S22993A2	14	19.3101	19.2020	.56		20
Sodium	70604	S22993A2	15	S22993A2	14	25.1531	24.0957	4.3		20
Vanadium	70604	S22993A3	15	S22993A3	14	1.1205	1.1018	1.7		20
Zinc	70604	S22993A3	15	S22993A3	14	1.0983	1.0964	.18		20

TxtQcType: MR Matrix: SOIL SampleID: AD05999-001

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Aluminum	70604	S22993A2	17	S22993A2	16	6.0582	5.7971	4.4		20
Barium	70604	S22993A3	17	S22993A3	16	0.1U	0.1U	---		20
Calcium	70604	S22993A2	17	S22993A2	16	10U	10.1886	---		20
Chromium	70604	S22993A3	17	S22993A3	16	0.05U	0.05U	---		20
Cobalt	70604	S22993A3	17	S22993A3	16	0.025U	0.025U	---		20
Copper	70604	S22993A3	17	S22993A3	16	0.05U	0.05U	---		20
Iron	70604	S22993A2	17	S22993A2	16	19.5359	13.3407	38	a	20
Lead	70604	S22993A3	17	S22993A3	16	0.05U	0.05U	---		20
Magnesium	70604	S22993A2	17	S22993A2	16	5U	6.9691	---		20
Manganese	70604	S22993A3	17	S22993A3	16	0.2006	0.1736	14		20
Mercury	70604	H22993S	17	H22993S	16	.5U	.5U	---		20
Nickel	70604	S22993A3	17	S22993A3	16	0.05U	0.05U	---		20
Potassium	70604	S22993A2	17	S22993A2	16	5U	5U	---		20
Sodium	70604	S22993A2	17	S22993A2	16	2.5U	2.5U	---		20
Vanadium	70604	S22993A3	17	S22993A3	16	0.1U	0.1U	---		20
Zinc	70604	S22993A3	17	S22993A3	16	0.1U	0.1U	---		20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 70604

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MSD Matrix: SOIL SampleID: AD05999-001

Analyte	BatchId	Data Fil	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Aluminum	70604	S22993A2	19	S22993A2	18	12.5238	10.9998	13	20
Barium	70604	S22993A3	19	S22993A3	18	0.4984	0.4997	.27	20
Calcium	70604	S22993A2	19	S22993A2	18	50.5624	50.6709	.21	20
Chromium	70604	S22993A3	19	S22993A3	18	0.4920	0.5068	3	20
Cobalt	70604	S22993A3	19	S22993A3	18	0.4885	0.4906	.42	20
Copper	70604	S22993A3	19	S22993A3	18	0.4985	0.5084	2	20
Iron	70604	S22993A2	19	S22993A2	18	24.6525	21.0229	16	20
Lead	70604	S22993A3	19	S22993A3	18	0.4794	0.4738	1.2	20
Magnesium	70604	S22993A2	19	S22993A2	18	51.2276	51.3202	.18	20
Manganese	70604	S22993A3	19	S22993A3	18	0.7375	0.6576	11	20
Mercury	70604	H22993S	19	H22993S	18	10.2438	10.3985	1.5	20
Nickel	70604	S22993A3	19	S22993A3	18	0.4961	0.4978	.35	20
Potassium	70604	S22993A2	19	S22993A2	18	48.5644	49.3918	1.7	20
Sodium	70604	S22993A2	19	S22993A2	18	48.9376	49.8599	1.9	20
Vanadium	70604	S22993A3	19	S22993A3	18	0.5202	0.5156	.89	20
Zinc	70604	S22993A3	19	S22993A3	18	0.5153	0.4963	3.7	20

TxtQcType: SD Matrix: SOIL SampleID: AD05999-001

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Aluminum	70604	S22993A2	21	S22993A2	16	5	1.1690	5.7971	0.83		10
Barium	70604	S22993A3	21	S22993A3	16	5	0.0059	0.0334	11	a	10
Calcium	70604	S22993A2	21	S22993A2	16	5	1.9235	10.1886	5.6		10
Chromium	70604	S22993A3	21	S22993A3	16	5	0.0030	0.0229	34	c	10
Cobalt	70604	S22993A3	21	S22993A3	16	5	-0.0055	-0.0011	---		10
Copper	70604	S22993A3	21	S22993A3	16	5	0.0068	0.0207	64	c	10
Iron	70604	S22993A2	21	S22993A2	16	5	2.7034	13.3407	1.3		10
Lead	70604	S22993A3	21	S22993A3	16	5	-0.0002	0.0085	---		10
Magnesium	70604	S22993A2	21	S22993A2	16	5	1.2937	6.9691	7.2		10
Manganese	70604	S22993A3	21	S22993A3	16	5	0.0351	0.1736	0.98		10
Nickel	70604	S22993A3	21	S22993A3	16	5	-0.0086	-0.0011	---		10
Potassium	70604	S22993A2	21	S22993A2	16	5	0.2505	0.7962	57	c	10
Sodium	70604	S22993A2	21	S22993A2	16	5	-0.2098	-0.0873	---		10
Vanadium	70604	S22993A3	21	S22993A3	16	5	0.0074	0.0315	17	c	10
Zinc	70604	S22993A3	21	S22993A3	16	5	-0.0022	0.0158	---		10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 70605

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 70605

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Antimony	70605	S082318B	54	S082318B	53	24.3010	24.5290	.93	20
Arsenic	70605	S082318B	54	S082318B	53	61.1710	60.0520	1.8	20
Beryllium	70605	S082318B	54	S082318B	53	59.6850	56.7630	5	20
Cadmium	70605	S082318B	54	S082318B	53	269.0190	263.1360	2.2	20
Selenium	70605	S082318B	54	S082318B	53	155.0720	150.6230	2.9	20
Silver	70605	S082318B	54	S082318B	53	55.2150	54.1690	1.9	20
Thallium	70605	S082318B	54	S082318B	53	203.0550	203.4530	.2	20

TxtQcType: MR Matrix: SOIL SampleID: AD05999-001

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Antimony	70605	S082318B	56	S082318B	55	4U	4U	---	20
Arsenic	70605	S082318B	56	S082318B	55	1.8310	1.8490	0.98	20
Beryllium	70605	S082318B	56	S082318B	55	1U	1U	---	20
Cadmium	70605	S082318B	56	S082318B	55	2U	2U	---	20
Selenium	70605	S082318B	56	S082318B	55	10U	10U	---	20
Silver	70605	S082318B	56	S082318B	55	1U	1U	---	20
Thallium	70605	S082318B	56	S082318B	55	2U	2U	---	20

TxtQcType: MSD Matrix: SOIL SampleID: AD05999-001

Analyte	BatchId	Data Fil	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Antimony	70605	S082318B	58	S082318B	57	202.0970	182.2480	10	20
Arsenic	70605	S082318B	58	S082318B	57	213.3350	205.4420	3.8	20
Beryllium	70605	S082318B	58	S082318B	57	199.2510	185.5830	7.1	20
Cadmium	70605	S082318B	58	S082318B	57	215.1880	209.1600	2.8	20
Selenium	70605	S082318B	58	S082318B	57	212.4530	202.4520	4.8	20
Silver	70605	S082318B	58	S082318B	57	37.2330	37.0480	.5	20
Thallium	70605	S082318B	58	S082318B	57	215.2220	207.9690	3.4	20

TxtQcType: SD Matrix: SOIL SampleID: AD05999-001

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Antimony	70605	S082318B	60	S082318B	55	5	0.0590	0.0270	993	c	20
Arsenic	70605	S082318B	60	S082318B	55	5	0.4890	1.8490	32	a	20
Beryllium	70605	S082318B	60	S082318B	55	5	0.2560	0.2230	474	c	20
Cadmium	70605	S082318B	60	S082318B	55	5	0.0320	0.0820	95	c	20
Selenium	70605	S082318B	60	S082318B	55	5	0.2910	0.3020	382	c	20
Silver	70605	S082318B	60	S082318B	55	5	0.0510	0.0470	443	c	20
Thallium	70605	S082318B	60	S082318B	55	5	0.0390	0.0900	117	c	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B 200.7/200.8 OTHER

Batch No.: 22993 Analyst:

QC Number: 70604 Prep Date: 8/21/18

Matrix: Soil Reviewed By: 8/3

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50ml	50ml				–	
LCS	0.5g					–	
LCSD						–	
1. D05999-001							Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate							
MR 05999-001							
MS 05999-001							Balance used: B-033
MSD 05999-001							Pipettes used: 149, 152
2. 05721-002							
3. 06016-002							Hot Block used: 5
4. 06018-001							
5. 06031-001							
6. -003							
7. -005							
8. -007							
9. -009							
10. -012							
11. -014							
12. -016							
13. -018							
14. -020							
15. 06000-001							
16. 05917-012							
17. -013							
18. -014							
19. -015							
20.							

Hot Plate Temperature: 93.6 C (90-95° C) Start Time: 10:45 End Time: 15:10

	Volume mL	Lot #
LCS, LCSD	0.5g	V- 11655
LLLCS, LLLCSD		V-
MS, MSD	0.5ml	V- 11732, 11748
LLMS, LLMSD	0.25ml	V- 285485

Acid	Vol mL	Lot#
HNO_3	2.5ml	V- ~~11784~~ 11859
HCl	5ml	V- 11785
H_2O_2	1.5ml	V- 11645

Acid	Vol mL	Lot#
1:1 HNO_3	5ml	V280092
1:1 HCl		V-

Relinquished By _____ Date 8/21/18

Received By _____ Date 8/21/18

T:\QC\FORMS\LOGBOOK FORMS\METALS\ICP sample prep log 2018 DOD.DOC

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B 200.7/200.8 OTHER_____

Batch No.: 22994 Analyst: [illegible]

QC Number: 70605 Prep Date: 8/21/18

Matrix: 6020 Soil Reviewed By: SB

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50ml	50ml	25ml	50ml		--	
LCS	0.9					--	
LCSD						--	
1. D05999-001	0.59						Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate							
MR 05999-001							
MS 05999-001							Balance used: B-033
MSD 05999-001							Pipettes used: 149, 152
2. 05721-002							
3. 06016-002							Hot Block used: 5
4. 06018-001							
5. 06031-001							
6. -003							
7. -005							
8. -007							
9. -009							
10. -012							
11. -014							
12. -016							
13. -018							
14. -020							
15.							
16.							
17.							
18.							
19.							
20.							

Hot Plate Temperature: 93.8 C (90-95° C) Start Time: 10:45 End Time: 15:08

	Volume mL	Lot #
LCS, LCSD	0.9	V- 11655
LLLCS, LLLCSD		V-
MS, MSD	0.5ml	V-11732, 11348
LLMS, LLMSD	0.25ml	V-285485

Acid	Vol mL	Lot#
HNO_3	2.5ml	V-118899
HCl		V-
H_2O_2	1.5ml	V-11645

Acid	Vol mL	Lot#
1:1 HNO_3	5ml	V-280432
1:1 HCl		V-

Relinquished By [illegible] Date 8/21/18

Received By [illegible] Date 8/21/18

HG SAMPLE PREPARATION LOG

Hampton-Clarke/Veritech

ANALYTICAL METHOD: 245.1 7470A 7471B OTHER_____

Batch No.:* 22993

QC Number: 70604

Matrix: Soil

Analyst: [illegible]

Prep Date: 8/21/18

Review By: [illegible]

LAB ID#	MERCURY INITIAL	MERCURY FINAL	COMMENTS	STANDARDS
Method blank	25ml	25ml		CAL CURVE BLK 0ppb V-286009
LCS	0159			
LCSD				STD 0.2 ppb V-286010
05999-001				STD 0.5 ppb V-286011
MR 05999-001				STD 1.0 ppb V-286012
MS 05999-001				STD 2.0 ppb V-286013
MSD 05999-001				STD 5.0 ppb V-286014
2 05721-002				STD 10.0 ppb V-286015
3 06016-002				STD 25.0 ppb V-286016
4 06018-001				ICV 10.0 ppb V-286007
5 06031-001				CCV 20.0 ppb V-286008
6 -003				
7 -005				
8 -007				Balance used: B-033
9 -009				Pipettes used: 121, 159, 135
10 -012				
11 -014				Hot Block used: 6
12 -016				
13 -018				
14 -020				
15				
16				
17				
18				
19				
20				

Lot Numbers	Volume (mL)	Acid	Volume (mL)	Lot #
$KMnO_4$: V-284158	3.75ml	HNO_3		V-
$K_2S_2O_8$: V-		HCl		V-
NH_4OH: V-284160	1.5ml	H_2SO_4		V-
		Aqua Regia	1.25ml	V-286006

**Block Temp.: °C	93.3
Time on Block:	11:30
Time Out of Block:	12:00

Spike Volume & Lot #

☐ LCS V-11655 0.125 ml / 0.25 ml

☐ MS 285972 0.250 ml

☐ Standards/Control Batch B-25561

Start time: 10:45 End Time: 12:00

**Temperature 245.1 / 7470A: 90-95C 7471B : 92-98C

Relinquished By: [illegible]

*25 mLs of each standard was digested with this batch using the same reagents and at the same time as the above samples. The preparation of each standard may be referenced in Veriprog using the standard batch number and the corresponding V #s.

HG PREP 2016

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\HGCV1A\H22993S.txt

Analysis Date: 08/23/18 **Instrument:** HGCV1A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
Calibration Blank	1	CAL	16:11	1							0
.2 PPB	1	CAL	16:13	2							0
.5 PPB	1	CAL	16:14	3							0
1 PPB	1	CAL	16:16	4							0
2 PPB	1	CAL	16:17	5							0
5 PPB	1	CAL	16:19	6							0
10 PPB	1	CAL	16:20	7							0
25 PPB	1	CAL	16:22	8							0
ICV (2)	1	ICV	16:24	9							0
ICB	1	ICB	16:26	10							0
MB 70604 (167)	1	MB	16:28	11	HG-SOIL	SOIL	SOIL	SW846	70604		0
LCS 70604	1	NA	16:29	12	HG-SOIL	SOIL	SOIL	SW846	70604	CONC.HIGH	0
LCS MR 70604	1	NA	16:31	13	HG-SOIL	SOIL	SOIL	SW846	70604	CONC.HIGH	0
LCS 5D	5	LCS	16:33	14	HG-SOIL	SOIL	SOIL	SW846	70604		0
LCS MR 5D	5	LCS	16:35	15	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD05999-001	1	SMP	16:37	16	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD05999-001	1	MR	16:39	17	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD05999-001	1	MS	16:40	18	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD05999-001	1	MSD	16:42	19	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD05721-002	1	SMP	16:44	20	HG-SOIL	SOIL	SOIL	SW846	70604		0
CCV	1	CCV	16:46	21							0
CCB	1	CCB	16:48	22							0
AD06016-002	1	SMP	16:49	23	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD06018-001	1	SMP	16:51	24	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD06031-001	1	SMP	16:52	25	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD06031-003	1	SMP	16:54	26	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD06031-005	1	SMP	16:55	27	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD06031-007	1	SMP	16:57	28	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD06031-009	1	SMP	16:58	29	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD06031-012	1	SMP	17:00	30	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD06031-014	1	SMP	17:01	31	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD06031-016	1	SMP	17:03	32	HG-SOIL	SOIL	SOIL	SW846	70604		0
CCV	1	CCV	17:04	33							0
CCB	1	CCB	17:06	34							0
AD06031-018	1	SMP	17:08	35	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD06031-020	1	SMP	17:09	36	HG-SOIL	SOIL	SOIL	SW846	70604		0
CCV	1	CCV	17:11	37							0
CCB	1	CCB	17:13	38							0

Comments/Reviewedby:

carmela
192.168.1.70 8/23/2018 5:50:34 PM

OK

8/23/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

V-286198

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\S082318BNEW.txt

Analysis Date: 08/23/18

Instrument: MS3_7700SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
RINSE	1	NA	21:30	1		SOIL	SOIL	SW846	70615		0
CalBlk V-285822	1	ISBLK	21:34	2		SOIL	SOIL				V-285822(Cal Blk WARNING)
CalStd1 V-285823	1	CAL	21:39	3							V-285823(Cal Std-1 WARNING)
CalStd2 V-285824	1	CAL	21:43	4							V-285824(Cal Std-2 WARNING)
CalStd3 V-285825	1	CAL	21:47	5							V-285825(Cal Std-3 WARNING)
CalStd4 V-285826	1	CAL	21:51	6							V-285826(Cal Std-4 WARNING)
CalStd5 V-285827	1	CAL	21:56	7							V-285827(Cal Std-5 WARNING)
ICV V-285828	1	ICV	22:00	8							V-285828(ICV WARNING)
LLICV V-285833	1	LLICV	22:04	9		SOIL	SOIL	SW846	70615		V-285833(LL-ICV/CCV SOIL WARNING)
ICB V-285829	1	ICB	22:08	10							V-285829(ICB/CCB WARNING)
LRS V-285831	1	LRS	22:13	11		SOIL	SOIL	SW846	70615		V-285831(LRS WARNING)
RINSE	1	NA	22:18	12		SOIL	SOIL	SW846	70615		0
ICSA V-285830	1	ICSA	22:22	13							V-285830(ICSA WARNING)
RINSE	1	NA	22:26	14		SOIL	SOIL	SW846	70615		0
RINSE	1	NA	22:31	15		SOIL	SOIL	SW846	70615		0
CCV V-285832	1	CCV	22:35	16							V-285832(CCV WARNING)
CCB V-285829	1	CCB	22:39	17							V-285829(ICB/CCB WARNING)
MB 70615 (100)	1	MB	22:43	18		SOIL	SOIL	SW846	70615		0
LCS 70615	1	LCS	22:48	19		SOIL	SOIL	SW846	70615		0
LCS MR 70615	1	LCS	22:52	20		SOIL	SOIL	SW846	70615		0
AD06078-004	1	SMP	22:56	21	MET-5-6020	SOIL	SOIL	SW846	70615		0
AD06078-004	1	MR	23:00	22	MET-5-6020	SOIL	SOIL	SW846	70615		0
AD06078-004	1	MS	23:05	23	MET-5-6020	SOIL	SOIL	SW846	70615		0
AD06078-004	1	MSD	23:09	24	MET-5-6020	SOIL	SOIL	SW846	70615		0
AD06078-004	1	PS	23:13	25	MET-5-6020	SOIL	SOIL	SW846	70615		0
AD06078-004	5	SD	23:17	26	MET-5-6020	SOIL	SOIL	SW846	70615		0
RINSE	1	NA	23:21	27		SOIL	SOIL	SW846	70615		0
CCV V-285832	1	CCV	23:26	28							V-285832(CCV WARNING)
CCB V-285829	1	CCB	23:30	29							V-285829(ICB/CCB WARNING)
AD06078-009	1	SMP	23:34	30	MET-5-6020	SOIL	SOIL	SW846	70615		0
AD06078-013	1	SMP	23:39	31	MET-5-6020	SOIL	SOIL	SW846	70615	Be not reported (Sc1 failed)	0
AD06065-001	1	SMP	23:43	32	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06059-001	1	SMP	23:47	33	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06059-002	1	SMP	23:51	34	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06066-001	1	SMP	23:55	35	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06066-002	1	SMP	00:00	36	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06066-003	1	SMP	00:04	37	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06066-004	1	SMP	00:08	38	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
RINSE	1	NA	00:12	39		SOIL	SOIL	SW846	70615		0
CCV V-285832	1	CCV	00:16	40							V-285832(CCV WARNING)
CCB V-285829	1	CCB	00:21	41							V-285829(ICB/CCB WARNING)
AD06051-001	1	SMP	00:25	42	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06051-002	1	SMP	00:29	43	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06051-003	1	SMP	00:33	44	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06051-004	1	SMP	00:38	45	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06051-005	1	SMP	00:42	46	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06047-001	1	SMP	00:46	47	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06047-002	1	SMP	00:50	48	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
RINSE	1	NA	00:55	49		SOIL	SOIL	SW846	70615		0
CCV V-285832	1	CCV	00:59	50							V-285832(CCV WARNING)
CCB V-285829	1	CCB	01:03	51							V-285829(ICB/CCB WARNING)
MB 70605 (100)	1	MB	01:08	52		SOIL	SOIL	SW846	70605		0
LCS 70605	1	LCS	01:12	53		SOIL	SOIL	SW846	70605		0
LCS MR 70605	1	LCS	01:16	54		SOIL	SOIL	SW846	70605		0
AD05999-001	1	SMP	01:20	55	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD05999-001	1	MR	01:25	56	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD05999-001	1	MS	01:29	57	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD05999-001	1	MSD	01:33	58	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD05999-001	1	PS	01:37	59	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD05999-001	5	SD	01:42	60	MET-TAL6020S	SOIL	SOIL	SW846	70605		0

Comments/Reviewedby:

sean
192.168.1.38 8/24/2018 11:09:14 AM

OK

8/27/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\S082318BNEW.txt

Analysis Date: 08/24/18

Instrument: MS3_7700SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
RINSE	1	NA	01:46	61		SOIL	SOIL	SW846	70615		0
CCV V-285832	1	CCV	01:50	62							V-285832(CCV WARNING)
CCB V-285829	1	CCB	01:54	63							V-285829(ICB/CCB WARNING)
AD05721-002	1	SMP	01:59	64	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD06016-002	1	SMP	02:03	65	MET-RCRA-MS	SOIL	SOIL	SW846	70605		0
AD06018-001	1	SMP	02:07	66	MET-RCRA-MS	SOIL	SOIL	SW846	70605		0
AD06031-001	1	SMP	02:11	67	MET-TAL6020S	SOIL	SOIL	SW846	70605	Be not reported (Sc1 failed)	0
AD06031-003	1	SMP	02:16	68	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD06031-005	1	SMP	02:20	69	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD06031-007	1	SMP	02:24	70	MET-TAL6020S	SOIL	SOIL	SW846	70605	Be not reported (Sc1 failed)	0
AD06031-009	1	SMP	02:28	71	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD06031-012	1	SMP	02:33	72	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
RINSE	1	NA	02:37	73		SOIL	SOIL	SW846	70615		0
CCV V-285832	1	CCV	02:41	74							V-285832(CCV WARNING)
CCB V-285829	1	CCB	02:45	75							V-285829(ICB/CCB WARNING)
AD06031-014	1	SMP	02:50	76	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD06031-016	1	SMP	02:54	77	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD06031-018	1	SMP	02:58	78	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD06031-020	1	SMP	03:02	79	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
RINSE	1	NA	03:06	80		SOIL	SOIL	SW846	70615		0
CCV V-285832	1	CCV	03:11	81							V-285832(CCV WARNING)
CCB V-285829	1	CCB	03:15	82							V-285829(ICB/CCB WARNING)

Comments/Reviewedby:

sean
192.168.1.38 8/24/2018 11:09:14 AM

OK

8/27/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP3A\S22993A3.txt

Analysis Date: 08/24/18

Instrument: PEICP3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-283171	1	CAL	06:36	1							V-283171(ICB/CCB)
CALST2 V-285929	1	CAL	06:40	2							V-285929(LLICV/LLCCV soil)
CALST3 V-285445	1	CAL	06:43	3							V-285445(ICS3 - Middle Std)
CALST4 V-285446	1	CAL	06:47	4							V-285446(ICS4 High std)
ICV V-285444	1	ICV	06:51	5							V-285444(CCV)
ICB V-283171	1	ICB	06:55	6							V-283171(ICB/CCB)
LRS V-285664	1	LRS	06:59	7		SOIL	SOIL	SW846	70604		V-285664(LRS)
ICS3 V-285445	1	ICS	07:03	8							V-285445(ICS3 - Middle Std)
LLICV V-285929	1	LLICV	07:06	9		SOIL	SOIL	SW846	70604		V-285929(LLICV/LLCCV soil)
ICSA V-285079	1	ICSA	07:10	10							V-285079(ICSA)
CCV V-285444	1	CCV	07:15	11							V-285444(CCV)
CCB V-283171	1	CCB	07:19	12							V-283171(ICB/CCB)
MB 70604 (100)	1	MB	07:22	13		SOIL	SOIL	SW846	70604		()
LCS 70604	1	LCS	07:26	14		SOIL	SOIL	SW846	70604		()
LCS MR 70604	1	LCS	07:30	15		SOIL	SOIL	SW846	70604		()
AD05999-001	1	SMP	07:35	16	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05999-001	1	MR	07:38	17	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05999-001	1	MS	07:42	18	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05999-001	1	MSD	07:46	19	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05999-001	1	PS	07:50	20	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05999-001	5	SD	07:54	21	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
CCV V-285444	1	CCV	07:57	22							V-285444(CCV)
CCB V-283171	1	CCB	08:01	23							V-283171(ICB/CCB)
AD05721-002	1	SMP	08:05	24	MET-TAL6010S	SOIL	SOIL	SW846	70604	V NOT reported (Fe> LR)	()
AD06016-002	1	SMP	08:09	25	MET-RCRA-S	SOIL	SOIL	SW846	70604		()
AD06018-001	1	SMP	08:13	26	MET-RCRA-S	SOIL	SOIL	SW846	70604		()
AD06031-001	1	SMP	08:18	27	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-003	1	SMP	08:22	28	MET-TAL6010S	SOIL	SOIL	SW846	70604	V NOT reported (Fe> LR)	()
AD06031-005	1	SMP	08:27	29	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-007	1	SMP	08:31	30	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-009	1	SMP	08:36	31	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-012	1	SMP	08:40	32	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
CCV V-285444	1	CCV	08:44	33							V-285444(CCV)
CCB V-283171	1	CCB	08:48	34							V-283171(ICB/CCB)
AD06031-014	1	SMP	08:52	35	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-016	1	SMP	08:56	36	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-018	1	SMP	09:00	37	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-020	1	SMP	09:05	38	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06000-001	1	NA	09:09	39	PB-SOIL	SOIL	SOIL	SW846	70604	Pb over LR	()
AD05917-012	1	NA	09:14	40	PB-SOIL	SOIL	SOIL	SW846	70604	high internal std	()
AD05917-013	1	NA	09:19	41	PB-SOIL	SOIL	SOIL	SW846	70604	high internal std	()
AD05917-014	1	NA	09:23	42	PB-SOIL	SOIL	SOIL	SW846	70604	high internal std	()
AD05917-015	1	NA	09:28	43	PB-SOIL	SOIL	SOIL	SW846	70604	high internal std	()
AD06000-001	10	SMP	09:32	44	PB-SOIL	SOIL	SOIL	SW846	70604	Pb reported	()
CCV V-285444	1	CCV	09:36	45							V-285444(CCV)
CCB V-283171	1	CCB	09:40	46							V-283171(ICB/CCB)
AD05917-012	4	SMP	09:44	47	PB-SOIL	SOIL	SOIL	SW846	70604	Pb reported	()
AD05917-013	4	SMP	09:48	48	PB-SOIL	SOIL	SOIL	SW846	70604	Pb reported	()
AD05917-014	4	SMP	09:52	49	PB-SOIL	SOIL	SOIL	SW846	70604	Pb reported	()
AD05917-015	4	SMP	09:57	50	PB-SOIL	SOIL	SOIL	SW846	70604	Pb reported	()
CCV V-285444	1	CCV	10:01	51							V-285444(CCV)
CCB V-283171	1	CCB	10:05	52							V-283171(ICB/CCB)

Comments/Reviewedby:

olufemi
192.168.1.76 8/24/2018 11:34:47 AM

RUN IS OK
All elements reported, except earth elements

8/27/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICPRAD2A\S22993A2.txt

Analysis Date: 08/24/18

Instrument: PEICPRAD2A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-282340	1	CAL	00:54	1							V-282340(ICB/CCB)
CALST2 V-281815	1	CAL	00:57	2							V-281815(LLICV/LLCCV soil)
CALST3 V-282202	1	CAL	01:01	3							V-282202(ICS3 - Middle Std)
CALST4 V-282204	1	CAL	01:07	4							V-282204(ICS4 High std)
ICV V-282698	1	ICV	01:12	5							V-282698(CCV)
ICB V-282340	1	ICB	01:18	6							V-282340(ICB/CCB)
LRS V-283372	1	LRS	01:21	7		SOIL	SOIL	SW846	70604		V-283372(LRS)
ICS3 V-282202	1	ICS	01:27	8							V-282202(ICS3 - Middle Std)
LLICV V-281815	1	LLICV	01:32	9		SOIL	SOIL	SW846	70604		V-281815(LLICV/LLCCV soil)
ICSA V-282430	1	ICSA	01:36	10							V-282430(ICSA)
CCV V-282698	1	CCV	01:42	11							V-282698(CCV)
CCB V-282340	1	CCB	01:47	12							V-282340(ICB/CCB)
MB 70604 (100)	1	MB	01:51	13		SOIL	SOIL	SW846	70604		()
LCS 70604	1	LCS	01:55	14		SOIL	SOIL	SW846	70604		()
LCS MR 70604	1	LCS	02:00	15		SOIL	SOIL	SW846	70604		()
AD05999-001	1	SMP	02:05	16	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05999-001	1	MR	02:11	17	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05999-001	1	MS	02:16	18	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05999-001	1	MSD	02:21	19	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05999-001	1	PS	02:27	20	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05999-001	5	SD	02:32	21	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
CCV V-282698	1	CCV	02:36	22							V-282698(CCV)
CCB V-282340	1	CCB	02:42	23							V-282340(ICB/CCB)
AD05721-002	1	SMP	02:45	24	MET-TAL6010S	SOIL	SOIL	SW846	70604	Fe NOT reported (Fe> LR)	()
AD06016-002	1	SMP	02:51	25	MET-RCRA-S	SOIL	SOIL	SW846	70604		()
AD06018-001	1	SMP	02:56	26	MET-RCRA-S	SOIL	SOIL	SW846	70604		()
AD06031-001	1	SMP	03:01	27	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-003	1	SMP	03:07	28	MET-TAL6010S	SOIL	SOIL	SW846	70604	Fe NOT reported (Fe> LR)	()
AD06031-005	1	SMP	03:12	29	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-007	1	SMP	03:17	30	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
CCV V-282698	1	CCV	03:23	31							V-282698(CCV)
CCB V-282340	1	CCB	03:28	32							V-282340(ICB/CCB)
AD06031-009	1	SMP	03:32	33	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-012	1	SMP	03:37	34	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-014	1	SMP	03:43	35	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-016	1	SMP	03:48	36	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-018	1	SMP	03:53	37	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-020	1	SMP	03:58	38	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05721-002	2	SMP	04:04	39	MET-TAL6010S	SOIL	SOIL	SW846	70604	Fe reported	()
AD06031-003	2	SMP	04:09	40	MET-TAL6010S	SOIL	SOIL	SW846	70604	Fe reported	()
CCV V-282698	1	CCV	04:14	41							V-282698(CCV)
CCB V-282340	1	CCB	04:20	42							V-282340(ICB/CCB)

Comments/Reviewedby:

olufemi
192.168.1.76 8/24/2018 5:25:53 AM

RUN IS OK
Earth elements reported

8/27/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

ICPMS Internal Standard Summary Report

TuneID: 1

Batch/FileID: S082318BNSample ID: CalBlk V-285822 Sample Date 08/23/18 Sample Time: 21:34

IS ID:	Area	Area Limit		
Ho-1	1923640.75	1346548.525	-	2887384.76575
In-1	1174711.60	822298.12	-	1763242.1116
Sc-1	608862.29	426203.603	-	913902.29729
Tb-1	1923810.14	1346667.098	-	2887639.02014

QcType	txtSamId:	Pos	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area	Area	Area	Area	Area
ISBLK	CalBlk V-285822	2	1923640.	1174711.	608862.2	1923810.				
SMP	RINSE	1	1935549.	1198124.	618115.9	1947312.				
CAL	CalStd1 V-28582	3	1921457.	1195944.	614100.2	1947823.				
CAL	CalStd2 V-28582	4	1960639.	1220030.	631149.4	1983359.				
CAL	CalStd3 V-28582	5	1958711.	1205401.	625952.7	1984999.				
CAL	CalStd4 V-28582	6	1943926.	1188185.	618716.0	1966486.				
CAL	CalStd5 V-28582	7	1946697.	1151434.	597728.0	1949006.				
ICV	ICV V-285828	8	1911026.	1151536.	595628.3	1931286.				
LLICV	LLICV V-285833	9	1930189.	1194097.	611477.2	1967852.				
ICB	ICB V-285829	10	1867073.	1151849.	593427.1	1921558.				
LRS	LRS V-285831	11	1899335.	1096072.	594484.1	1911273.				
SMP	RINSE	12	1922195.	1180622.	606883.6	1959054.				
ICSA	ICSA V-285830	13	1990056.	1122764.	592962.5	2015177.				
SMP	RINSE	14	2032438.	1238305.	616486.7	2048684.				
SMP	RINSE	15	1990251.	1207056.	604205.9	2012236.				
CCV	CCV V-285832	16	2034018.	1228893.	626427.0	2069145.				
CCB	CCB V-285829	17	1993014.	1215496.	611122.1	2002087.				
MB	MB 70615 (100)	18	1974266.	1207189.	606001.6	2012596.				
LCS	LCS 70615	19	2068678.	1259714.	697405.0	2110442.				
MR	LCS MR 70615	20	2101231.	1273528.	698099.4	2125639.				
SMP	AD06078-004	21	2152717.	1272138.	816636.1	2179447.				
MR	AD06078-004	22	2198072.	1295106.	825681.2	2223320.				
MS	AD06078-004	23	2108248.	1228548.	800757.9	2118836.				
MSD	AD06078-004	24	2130623.	1229382.	784401.8	2153119.				
PS	AD06078-004	25	2188935.	1274291.	819965.0	2219517.				
SD	AD06078-004	26	2147708.	1328420.	730489.1	2179542.				
SMP	RINSE	27	2033065.	1281020.	670560.8	2072124.				
CCV	CCV V-285832	28	2029543.	1247459.	652184.4	2066768.				
CCB	CCB V-285829	29	1941924.	1203785.	613731.3	1977536.				
SMP	AD06078-009	30	2273151.	1221263.	803269.7	2306956.				
SMP	AD06078-013	31	2167254.	1227072.	1189050. *	2200118.				
SMP	AD06065-001	32	2196941.	1308009.	873715.2	2212448.				
SMP	AD06059-001	33	1998165.	1150178.	708601.8	2026674.				
SMP	AD06059-002	34	2029524.	1152436.	752734.5	2035141.				
SMP	AD06066-001	35	2134251.	1277615.	776700.4	2155612.				
SMP	AD06066-002	36	2065679.	1204223.	791860.6	2081086.				
SMP	AD06066-003	37	2074468.	1237262.	737528.8	2109210.				
SMP	AD06066-004	38	2005608.	1180626.	704474.0	2016535.				
SMP	RINSE	39	1898544.	1166796.	584799.6	1925023.				
CCV	CCV V-285832	40	1939897.	1184263.	612003.9	1973602.				
CCB	CCB V-285829	41	1902016.	1183850.	601174.1	1934720.				
SMP	AD06051-001	42	1884900.	1058949.	668360.1	1887110.				
SMP	AD06051-002	43	1878111.	1046151.	690322.0	1882844.				
SMP	AD06051-003	44	1895464.	1080560.	662850.1	1899990.				
SMP	AD06051-004	45	1890952.	1089027.	673043.7	1923116.				
SMP	AD06051-005	46	1882028.	1064816.	649431.4	1882468.				
SMP	AD06047-001	47	1979635.	1168195.	826253.7	2022601.				
SMP	AD06047-002	48	1923297.	1127867.	698815.0	1930185.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 1

SMP	RINSE	49	1764769.	1080581.	541314.7	1783097.
CCV	CCV V-285832	50	1779660.	1077917.	548107.1	1802328.
CCB	CCB V-285829	51	1741884.	1076922.	538914.5	1775770.
MB	MB 70605 (100)	52	1770221.	1085257.	544039.0	1777480.
LCS	LCS 70605	53	1881352.	1135783.	613448.7	1900521.
MR	LCS MR 70605	54	1883654.	1130496.	607826.3	1912667.
SMP	AD05999-001	55	1838584.	1118948.	614181.9	1866629.
MR	AD05999-001	56	1810754.	1098624.	598537.0	1849107.
MS	AD05999-001	57	1799679.	1069907.	602078.5	1813983.
MSD	AD05999-001	58	1811356.	1088457.	595520.4	1838219.
PS	AD05999-001	59	1868818.	1110963.	614421.1	1883415.
SD	AD05999-001	60	1791431.	1111658.	574723.0	1832491.
SMP	RINSE	61	1741663.	1067656.	543926.0	1763159.
CCV	CCV V-285832	62	1724484.	1037750.	535981.4	1750453.
CCB	CCB V-285829	63	1663636.	1029490.	516074.0	1673286.
SMP	AD05721-002	64	1869812.	1066283.	870633.5	1877534.
SMP	AD06016-002	65	1839080.	1080396.	723248.8	1863046.
SMP	AD06018-001	66	1844465.	1079480.	687035.9	1877134.
SMP	AD06031-001	67	1991998.	1082375.	914402.7	* 2043416.
SMP	AD06031-003	68	1982309.	1072277.	868241.9	2002326.
SMP	AD06031-005	69	1983453.	1066080.	888277.0	2026427.
SMP	AD06031-007	70	1929342.	1052790.	1011224.	* 1957998.
SMP	AD06031-009	71	1768017.	963309.8	855271.7	1768625.
SMP	AD06031-012	72	1922837.	1057052.	845245.0	1947605.
SMP	RINSE	73	1750889.	1083945.	557975.6	1777999.
CCV	CCV V-285832	74	1702057.	1041733.	540019.4	1739746.
CCB	CCB V-285829	75	1648435.	1039262.	522718.4	1685570.
SMP	AD06031-014	76	1931712.	1033551.	868053.8	1961207.
SMP	AD06031-016	77	1894222.	1060646.	853283.2	1928285.
SMP	AD06031-018	78	1993452.	1091359.	879585.9	2033055.
SMP	AD06031-020	79	1864460.	1044414.	823102.8	1874128.
SMP	RINSE	80	1702057.	1065708.	532651.0	1712477.
CCV	CCV V-285832	81	1740052.	1065141.	547801.2	1762329.
CCB	CCB V-285829	82	1671493.	1055840.	530879.0	1724204.

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

Batch/FileID: S082318BN Sample ID: CalBlk V-285822 Sample Date 08/23/18 Sample Time: 21:34

IS ID:	Area	Area Limit		
Ho-2	1483608.71	1038526.097	-	2226896.67371
In-2	763959.83	534771.881	-	1146703.70483
Sc-2	115445.47	80811.829	-	173283.65047
Tb-2	1518253.75	1062777.625	-	2278898.87875

QcType	txtSamId:	Pos	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area	Area	Area	Area	Area
ISBLK	CalBlk V-285822	2	1483608.	763959.8	115445.4	1518253.				
SMP	RINSE	1	1490760.	769967.4	116212.4	1528224.				
CAL	CalStd1 V-28582	3	1502228.	775576.6	116662.3	1531155.				
CAL	CalStd2 V-28582	4	1529278.	788823.6	118474.7	1565629.				
CAL	CalStd3 V-28582	5	1518739.	788370.7	118046.4	1553872.				
CAL	CalStd4 V-28582	6	1509999.	768778.4	116164.4	1541506.				
CAL	CalStd5 V-28582	7	1503707.	749329.9	112580.4	1527081.				
ICV	ICV V-285828	8	1511028.	765315.8	114989.3	1550281.				
LLICV	LLICV V-285833	9	1510123.	775140.6	115542.2	1547065.				
ICB	ICB V-285829	10	1480300.	760855.3	114081.6	1506504.				
LRS	LRS V-285831	11	1527648.	730684.9	114534.3	1551124.				
SMP	RINSE	12	1511842.	761502.9	113802.8	1538903.				
ICSA	ICSA V-285830	13	1608549.	735272.2	112957.3	1643146.				
SMP	RINSE	14	1582579.	790083.5	115048.4	1622520.				
SMP	RINSE	15	1549881.	777420.7	113561.7	1575065.				
CCV	CCV V-285832	16	1585653.	789431.4	117190.1	1606968.				
CCB	CCB V-285829	17	1532508.	773821.4	114210.4	1567435.				
MB	MB 70615 (100)	18	1540335.	773395.7	113905.9	1564307.				
LCS	LCS 70615	19	1620655.	807689.3	128751.2	1672396.				
MR	LCS MR 70615	20	1610499.	810570.8	128230.6	1665527.				
SMP	AD06078-004	21	1711712.	819472.9	153575.8	1772991.				
MR	AD06078-004	22	1715901.	830327.4	155136.4	1765960.				
MS	AD06078-004	23	1674450.	793558.9	147361.7	1707036.				
MSD	AD06078-004	24	1667032.	787536.3	146405.5	1751637.				
PS	AD06078-004	25	1704520.	835411.5	155560.7	1771649.				
SD	AD06078-004	26	1669237.	852254.2	136948.3	1746770.				
SMP	RINSE	27	1586691.	831602.6	126490.0	1628945.				
CCV	CCV V-285832	28	1581199.	801950.5	121469.9	1655335.				
CCB	CCB V-285829	29	1512888.	777458.2	116702.7	1536622.				
SMP	AD06078-009	30	1799646.	790037.5	150519.4	1888485.				
SMP	AD06078-013	31	1690788.	793005.8	221959.9 *	1763234.				
SMP	AD06065-001	32	1697883.	836066.7	162339.3	1770928.				
SMP	AD06059-001	33	1560172.	726062.3	128307.8	1577772.				
SMP	AD06059-002	34	1575759.	737808.8	140149.8	1600891.				
SMP	AD06066-001	35	1640147.	817661.0	145319.4	1671112.				
SMP	AD06066-002	36	1588894.	761963.1	145162.6	1613720.				
SMP	AD06066-003	37	1596064.	791494.1	137212.7	1650451.				
SMP	AD06066-004	38	1545710.	745598.0	128462.2	1576030.				
SMP	RINSE	39	1469025.	742213.4	108314.0	1502923.				
CCV	CCV V-285832	40	1507678.	762236.9	115012.7	1539347.				
CCB	CCB V-285829	41	1478639.	759631.9	112487.1	1507511.				
SMP	AD06051-001	42	1458461.	675369.4	124759.0	1475634.				
SMP	AD06051-002	43	1445555.	665144.1	128325.0	1469964.				
SMP	AD06051-003	44	1461211.	683682.4	121256.1	1484632.				
SMP	AD06051-004	45	1479781.	698752.3	127253.2	1501170.				
SMP	AD06051-005	46	1454105.	686711.9	121710.6	1479605.				
SMP	AD06047-001	47	1547512.	740866.5	152214.0	1574068.				
SMP	AD06047-002	48	1492450.	718855.7	128208.9	1516017.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

SMP	RINSE	49	1381396.	698252.0	102014.9	1406517.
CCV	CCV V-285832	50	1410654.	703901.1	102295.6	1437777.
CCB	CCB V-285829	51	1380833.	698521.2	101045.4	1401962.
MB	MB 70605 (100)	52	1387033.	702939.2	102153.4	1414992.
LCS	LCS 70605	53	1451717.	729364.6	114567.3	1479188.
MR	LCS MR 70605	54	1445817.	728076.9	113823.6	1481364.
SMP	AD05999-001	55	1426913.	722802.5	112249.8	1455574.
MR	AD05999-001	56	1435033.	714307.6	111009.9	1466540.
MS	AD05999-001	57	1399942.	693205.8	110875.0	1431030.
MSD	AD05999-001	58	1429812.	706361.6	109881.6	1451738.
PS	AD05999-001	59	1456553.	725101.4	115764.6	1484001.
SD	AD05999-001	60	1429760.	730701.8	110057.5	1461670.
SMP	RINSE	61	1379666.	701313.9	102796.6	1405328.
CCV	CCV V-285832	62	1404208.	697586.6	102912.1	1426101.
CCB	CCB V-285829	63	1350608.	683442.1	100119.0	1371133.
SMP	AD05721-002	64	1481894.	691328.8	160749.9	1497976.
SMP	AD06016-002	65	1434073.	690812.1	132466.2	1455863.
SMP	AD06018-001	66	1462204.	690172.1	126804.1	1484446.
SMP	AD06031-001	67	1539760.	686998.3	167997.5	1587339.
SMP	AD06031-003	68	1545543.	694285.3	160808.4	1585103.
SMP	AD06031-005	69	1541510.	684359.1	166460.3	1585068.
SMP	AD06031-007	70	1498256.	668264.7	182746.8	* 1521233.
SMP	AD06031-009	71	1381599.	617231.7	144395.1	1411913.
SMP	AD06031-012	72	1485853.	672594.2	155481.5	1522364.
SMP	RINSE	73	1341688.	694194.5	103236.9	1375044.
CCV	CCV V-285832	74	1485143.	743839.3	110371.5	1524603.
CCB	CCB V-285829	75	1306043.	668843.1	97578.50	1339151.
SMP	AD06031-014	76	1514673.	662190.3	160661.2	1551852.
SMP	AD06031-016	77	1504578.	693524.9	159861.7	1537831.
SMP	AD06031-018	78	1550040.	698484.6	163080.4	1596488.
SMP	AD06031-020	79	1447214.	665100.2	147547.8	1475755.
SMP	RINSE	80	1346523.	687631.9	99549.88	1374604.
CCV	CCV V-285832	81	1361799.	685318.3	100333.5	1385674.
CCB	CCB V-285829	82	1327347.	677638.0	98418.48	1351986.

* Indicates Internal Standard Area outside of limits

TCLP Metal Data

Form1
Inorganic Analysis Data Sheet

Sample ID:	AD05999-001	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SS-1	Units:	MG/L	Lab Code:		Sdg No:	
Matrix:	TCLP	Date Rec:	8/16/2018	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.10	ND	1	50	50	08/21/18	70599	T22981A4	94	P	PEICP4A
7440-39-3	Barium	0.25	ND	1	50	50	08/21/18	70599	T22981A4	94	P	PEICP4A
7440-43-9	Cadmium	0.050	ND	1	50	50	08/21/18	70599	T22981A4	94	P	PEICP4A
7440-47-3	Chromium	0.10	ND	1	50	50	08/21/18	70599	T22981A4	94	P	PEICP4A
7439-92-1	Lead	0.050	ND	1	50	50	08/21/18	70599	T22981A4	94	P	PEICP4A
7439-97-6	Mercury	0.00050	ND	1	25	25	08/23/18	70599	H22988T	19	CV	HGCV3A
7782-49-2	Selenium	0.10	ND	1	50	50	08/21/18	70599	T22981A4	94	P	PEICP4A
7440-22-4	Silver	0.050	ND	1	50	50	08/21/18	70599	T22981A4	94	P	PEICP4A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 70599 (1) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 70599 (1) Units: MG/L Lab Code:
Matrix: TCLP
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	1.0	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-36-0	Antimony	0.070	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-38-2	Arsenic	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-39-3	Barium	0.25	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-41-7	Beryllium	0.012	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-42-8	Boron	0.20	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-43-9	Cadmium	0.050	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-70-2	Calcium	5.0	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-47-3	Chromium	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-48-4	Cobalt	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-50-8	Copper	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7439-89-6	Iron	1.0	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7439-92-1	Lead	0.050	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7439-95-4	Magnesium	5.0	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7439-96-5	Manganese	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7439-97-6	Mercury	0.00050	ND	1	25	25	08/23/18	70599	H22988T	11	CV	HGCV3A
7439-98-7	Molybdenum	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-02-0	Nickel	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7782-49-2	Selenium	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-21-3	Silicon	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-22-4	Silver	0.050	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-28-0	Thallium	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-31-5	Tin	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-32-6	Titanium	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-62-2	Vanadium	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-66-6	Zinc	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM 2
(ICV/CCV Summary)

Date Analyzed: 08/21/18
Data File: T22981A4
Prep Batch: 70599
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-285444-5	Rec	CCV V-285444-11	Rec	CCV V-285444-21	Rec	CCV V-285444-31	Rec	CCV V-285444-41	Rec	CCV V-285444-49	Rec	CCV V-285444-56	Rec	CCV V-285444-67	Rec
Arsenic	.5/.5	0.50037	100	0.51685	103	0.51188	102	0.51795	104	0.52503	105	0.51775	104	0.50997	102	0.50146	100
Barium	.5/.5	0.49839	100	0.50702	101	0.50576	101	0.50974	102	0.51231	102	0.51067	102	0.50895	102	0.50632	101
Beryllium	.5/.5	0.50106	100	0.50416	101	0.51863	104	0.51438	103	0.51736	103	0.51493	103	0.51330	103	0.51433	103
Cadmium	.5/.5	0.51395	103	0.52056	104	0.51599	103	0.52030	104	0.52148	104	0.52432	105	0.52224	104	0.51863	104
Chromium	.5/.5	0.50676	101	0.51304	103	0.50925	102	0.51101	102	0.51334	103	0.51217	102	0.50788	102	0.50679	101
Copper	.5/.5	0.50864	102	0.51769	104	0.51751	104	0.51871	104	0.51873	104	0.51747	103	0.51524	103	0.51553	103
Lead	.5/.5	0.50733	101	0.51642	103	0.50357	101	0.51030	102	0.51303	103	0.51809	104	0.51374	103	0.50776	102
Nickel	.5/.5	0.50489	101	0.51684	103	0.51578	103	0.52235	104	0.52699	105	0.52894	106	0.52517	105	0.52224	104
Selenium	.5/.5	0.47044	94	0.51812	104	0.51856	104	0.52946	106	0.52441	105	0.51840	104	0.54371	109	0.52190	104
Silver	0.1/0.1	0.10133	101	0.10388	104	0.10424	104	0.10509	105	0.10540	105	0.10449	104	0.10480	105	0.10505	105
Zinc	.5/.5	0.50500	101	0.51422	103	0.51453	103	0.51808	104	0.52218	104	0.51967	104	0.51835	104	0.51333	103

Analyte	ICV/CCV Amt	ICV V-285444-5	Rec	CCV V-285444-78	Rec	CCV V-285444-90	Rec	CCV V-285444-100	Rec	CCV V-285444-108	Rec		Rec		Rec		Rec
Arsenic	.5/.5	0.50037	100	0.51771	104	0.51449	103	0.51090	102	0.52286	105						
Barium	.5/.5	0.49839	100	0.50525	101	0.51302	103	0.50727	101	0.50865	102						
Beryllium	.5/.5	0.50106	100	0.51636	103	0.51714	103	0.51561	103	0.51521	103						
Cadmium	.5/.5	0.51395	103	0.51926	104	0.52292	105	0.52088	104	0.52309	105						
Chromium	.5/.5	0.50676	101	0.50408	101	0.51376	103	0.50926	102	0.50969	102						
Copper	.5/.5	0.50864	102	0.51138	102	0.51757	104	0.51323	103	0.51778	104						
Lead	.5/.5	0.50733	101	0.51198	102	0.51517	103	0.51397	103	0.51089	102						
Nickel	.5/.5	0.50489	101	0.52296	105	0.52839	106	0.52443	105	0.52399	105						
Selenium	.5/.5	0.47044	94	0.53962	108	0.51430	103	0.53393	107	0.53888	108						
Silver	.5/.5	0.10133	101	0.10413	104	0.10562	106	0.10342	103	0.10446	104						
Zinc	.5/.5	0.50500	101	0.51651	103	0.52095	104	0.51901	104	0.51804	104						

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 08/21/18
Data File: T22981A4
Prep Batch: ~~69144~~ 70599 CB 8/29/18
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-282467	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-285234	Recovery	Low Limit	High Limit
Molybdenum	0.1	0.0987657	99	80	120	20	18.4795	92	90	110
Aluminum	1.0	0.992878	99	80	120	500	550.894	110	90	110
Arsenic	0.1	0.109099	109	80	120	20	22.6807	113 a	90	110
Barium	0.25	0.245755	98	80	120	20	19.4548	97	90	110
Beryllium	0.012	0.0128055	107	80	120	2	1.99446	100	90	110
Calcium	5.0	4.98433	100	80	120	500	496.252	99	90	110
Cadmium	0.05	0.0483893	97	80	120	10	10.8875	109	90	110
Cobalt	0.1	0.100415	100	80	120	20	18.5224	93	90	110
Chromium	0.1	0.0997576	100	80	120	20	19.3087	97	90	110
Copper	0.1	0.0998186	100	80	120	10	11.0025	110	90	110
Iron	1.0	0.989316	99	80	120	400	383.290	96	90	110
Potassium	NA	12.2343		80	120	500	4677.05	935 a	90	110
Silver	0.05	0.0508846	102	80	120	0.8	0.896001	112 a	90	110
Manganese	0.1	0.0971326	97	80	120	10	9.95637	100	90	110
Silicon	0.1	0.0892673	89	80	120	25	24.2371	97	90	110
Sodium	NA	23.4009		80	120	1000	1354.92	135 a	90	110
Nickel	0.1	0.0998056	100	80	120	20	17.7725	89 a	90	110
Lead	0.05	0.0553173	111	80	120	20	19.5731	98	90	110
Antimony	0.07	0.0745821	107	80	120	20	21.2359	106	90	110
Selenium	0.1	0.0802401	80	80	120	20	22.5477	113 a	90	110
Tin	0.1	0.101088	101	80	120	10	9.10820	91	90	110
Titanium	0.1	0.102007	102	80	120	10	10.4599	105	90	110
Thallium	0.1	0.0965567	97	80	120	20	18.4047	92	90	110
Vanadium	0.1	0.105003	105	80	120	20	20.3782	102	90	110
Zinc	0.1	0.101409	101	80	120	10	9.61217	96	90	110
Boron	0.2	0.231638	116	80	120	5	3.74050	75 a	90	110
Magnesium	5.0	5.18098	104	80	120	500	514.723	103	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 08/23/18
Data File: H22988T
Prep Batch: 70599
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV (2)-9	Rec	CCV-21	Rec	CCV-32	Rec	Rec	Rec	Rec	Rec	Rec
Mercury	20/10	18.64000	93	9.43100	94	9.17300	92					

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 08/21/18
Data File: T22981A4
Prep Batch: 70599
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-283171-6	CCB V-283171-12	CCB V-283171-22	CCB V-283171-32	CCB V-283171-42	CCB V-283171-50	CCB V-283171-57	CCB V-283171-68
Arsenic	.05 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U
Barium	.125 U	.25 U	.25 U	.25 U	.25 U	.25 U	.25 U	.25 U
Beryllium	.006 U	.012 U	.012 U	.012 U	.012 U	.012 U	.012 U	.012 U
Cadmium	.025 U	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U
Chromium	.05 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U
Copper	.05 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U
Lead	.025 U	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U
Nickel	.05 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U
Selenium	.05 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U
Silver	.025 U	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U
Zinc	.05 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U

8 CB 9/5/18

Analyte	CCB V-283171-79	CCB V-283171-91	CCB V-283171-101	CCB V-283171-109	MB 70599 (1)-80	EF-V-285748-88	EF-V-283958-89
Arsenic	.1 U	.1 U	.1 U	.1 U	.05 U	.1 U	.1 U
Barium	.25 U	.25 U	.25 U	.25 U	.13 U	.25 U	.25 U
Beryllium	.012 U	.012 U	.012 U	.012 U	.006 U	.012 U	.012 U
Cadmium	.05 U	.05 U	.05 U	.05 U	.025 U	.05 U	.05 U
Chromium	.1 U	.1 U	.1 U	.1 U	.05 U	.1 U	.1 U
Copper	.1 U	.1 U	.1 U	.1 U	.05 U	.1 U	.1 U
Lead	.05 U	.05 U	.05 U	.05 U	.025 U	.05 U	.05 U
Nickel	.1 U	.1 U	.1 U	.1 U	.05 U	.1 U	.1 U
Selenium	.1 U	.1 U	.1 U	.1 U	.05 U	.1 U	.1 U
Silver	.05 U	.05 U	.05 U	.05 U	.025 U	.05 U	.05 U
Zinc	.1 U	.1 U	.1 U	.1 U	.05 U	.1 U	.1 U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 08/23/18
Data File: H22988T
Prep Batch: 70599
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB-10	CCB-22	CCB-33	MB 70599 (1)-11	EF V-285748-30	EF V-283958-31		
Mercury	.5 U	.5 U	.5 U	.5 U	.5 U	.5 U		

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 08/21/18
Data File: T22981A4
Prep Batch: 70599
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-285079-10	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	500	504.236	101							
Arsenic	0	U								
Barium	0	U								
Beryllium	0	U								
Cadmium	0	U								
Calcium	500	465.443	93							
Chromium	0	U								
Copper	0	U								
Iron	200	176.705	88							
Lead	0	U								
Magnesium	500	497.23	99							
Nickel	0	U								
Selenium	0	U								
Silver	0	U								
Zinc	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 70599

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: TCLP SampleID: LCSW MR 70599

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	70599	1	T22981A4	82	0.5401	0.50	108		80	120
Barium	70599	1	T22981A4	82	0.5394	0.50	108		80	120
Cadmium	70599	1	T22981A4	82	0.5430	0.50	109		80	120
Chromium	70599	1	T22981A4	82	0.5310	0.50	106		80	120
Lead	70599	1	T22981A4	82	0.5261	0.50	105		80	120
Mercury	70599	1	H22988T	13	10.2600	10	103		80	120
Selenium	70599	1	T22981A4	82	0.5586	0.50	112		80	120
Silver	70599	1	T22981A4	82	0.1077	0.100	108		80	120

TxtQcType: LCS Matrix: TCLP SampleID: LCSW 70599

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	70599	1	T22981A4	81	0.5174	0.50	103		80	120
Barium	70599	1	T22981A4	81	0.5283	0.50	106		80	120
Cadmium	70599	1	T22981A4	81	0.5350	0.50	107		80	120
Chromium	70599	1	T22981A4	81	0.5226	0.50	105		80	120
Lead	70599	1	T22981A4	81	0.5197	0.50	104		80	120
Mercury	70599	1	H22988T	12	10.3500	10	104		80	120
Selenium	70599	1	T22981A4	81	0.5163	0.50	103		80	120
Silver	70599	1	T22981A4	81	0.1055	0.100	106		80	120

TxtQcType: MS Matrix: TCLP SampleID: AD05993-014

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	70599	1	T22981A4	85	T22981A4	83	0.5636	0.1U	0.50	113		50	
Barium	70599	1	T22981A4	85	T22981A4	83	0.8793	0.3703	0.50	102		50	
Cadmium	70599	1	T22981A4	85	T22981A4	83	0.5534	0.05U	0.50	111		50	
Chromium	70599	1	T22981A4	85	T22981A4	83	0.5061	0.1U	0.50	101		50	
Lead	70599	1	T22981A4	85	T22981A4	83	0.4973	0.05U	0.50	99		50	
Mercury	70599	1	H22988T	16	H22988T	14	10.3800	0.50U	10	104		50	
Selenium	70599	1	T22981A4	85	T22981A4	83	0.5866	0.1U	0.50	117		50	
Silver	70599	1	T22981A4	85	T22981A4	83	0.1094	0.05U	0.100	109		50	

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 70599

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: TCLP SampleID: AD05993-014

Analyte	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	1	T22981A4	86	T22981A4	83	0.5370	0.1U	0.5	107		75	125
Barium	1	T22981A4	86	T22981A4	83	0.8539	0.3703	0.5	97		75	125
Cadmium	1	T22981A4	86	T22981A4	83	0.5428	0.05U	0.5	109		75	125
Chromium	1	T22981A4	86	T22981A4	83	0.5040	0.1U	0.5	101		75	125
Lead	1	T22981A4	86	T22981A4	83	0.4961	0.05U	0.5	99		75	125
Selenium	1	T22981A4	86	T22981A4	83	0.6018	0.1U	0.5	120		75	125
Silver	1	T22981A4	86	T22981A4	83	0.0962	0.05U	0.1	96		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 70599

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: TCLP SampleID: LCSW MR 70599

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	70599	T22981A4	82	T22981A4	81	0.5401	0.5174	4.3	20
Barium	70599	T22981A4	82	T22981A4	81	0.5394	0.5283	2.1	20
Cadmium	70599	T22981A4	82	T22981A4	81	0.5430	0.5350	1.5	20
Chromium	70599	T22981A4	82	T22981A4	81	0.5310	0.5226	1.6	20
Lead	70599	T22981A4	82	T22981A4	81	0.5261	0.5197	1.2	20
Mercury	70599	H22988T	13	H22988T	12	10.2600	10.3500	.87	20
Selenium	70599	T22981A4	82	T22981A4	81	0.5586	0.5163	7.9	20
Silver	70599	T22981A4	82	T22981A4	81	0.1077	0.1055	2	20

TxtQcType: MR Matrix: TCLP SampleID: AD05993-014

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	70599	T22981A4	84	T22981A4	83	0.1U	0.1U	---	20
Barium	70599	T22981A4	84	T22981A4	83	0.3603	0.3703	2.8	20
Cadmium	70599	T22981A4	84	T22981A4	83	0.05U	0.05U	---	20
Chromium	70599	T22981A4	84	T22981A4	83	0.1U	0.1U	---	20
Lead	70599	T22981A4	84	T22981A4	83	0.05U	0.05U	---	20
Mercury	70599	H22988T	15	H22988T	14	0.50U	0.50U	---	20
Selenium	70599	T22981A4	84	T22981A4	83	0.1U	0.1U	---	20
Silver	70599	T22981A4	84	T22981A4	83	0.05U	0.05U	---	20

TxtQcType: SD Matrix: TCLP SampleID: AD05993-014

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Arsenic	70599	T22981A4	87	T22981A4	83	5	0.0070	-0.0113	---		10
Barium	70599	T22981A4	87	T22981A4	83	5	0.0791	0.3703	6.8		10
Cadmium	70599	T22981A4	87	T22981A4	83	5	-0.0003	0.0008	---		10
Chromium	70599	T22981A4	87	T22981A4	83	5	0.0040	0.0110	82	c	10
Lead	70599	T22981A4	87	T22981A4	83	5	-0.0105	-0.0009	---		10
Selenium	70599	T22981A4	87	T22981A4	83	5	0.0084	-0.0260	---		10
Silver	70599	T22981A4	87	T22981A4	83	5	0.0009	0.0018	---		10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: (3010A) 3005A 3050B 200.7/200.8 OTHER_____

Batch No.: 22987 Analyst: BA

QC Number: 70595 Prep Date: 8/21/18

Matrix: TCLP Reviewed By: [illegible]

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50ml	50ml				–	
LCS						–	
LCSD						–	
1. 05993-014					V-285748	05993-014	Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate							
MR 05993-014							
MS 05993-014							Balance used: N/A
MSD							Pipettes used: 159, 157
2. 06006-002					V-283958	06006-002	
3. 06016-002					V-285748	06016-002	Hot Block used: 1
4. 05999-001							
5. 06002-001							
6. -002							
7. 06013-001							
8. 06027-001							
9. 06046-005							
10. 06045-002							
11. 05907-002							
12. 06063-002							
13. 06064-001							
14. -002							
15. -003							
16. V-285748	8/22/18						
17. V-283958					V-283958		
18.							
19.							
20.							

Hot Plate Temperature: 92-4C (90-95° C) Start Time: 10:00 End Time: 14:20

	Volume mL	Lot #
LCSD	0.25ml	V-11604, 11603
LLLCSD		V-
MSD	0.25ml	V-11604, 11603
LLMSD	0.25ml	V-285748

Acid	Vol mL	Lot#
HNO_3	3ml	V-11660
HCl		V-
H_2O_2		V-

Acid	Vol mL	Lot#
1:1 HNO_3		V-
1:1 HCl	5ml	V-280003

Relinquished By BA Date 8/21/18

Received By [illegible] Date 08/21/2018

T:\QC\FORMS\LOGBOOK FORMS\METALS\ICP sample prep log 2018 DOD.DOC

HG SAMPLE PREPARATION LOG

Hampton-Clarke/Veritech

ANALYTICAL METHOD: 245.1 7470A 7471B OTHER_____

Batch No.:* 22987

QC Number: 70599

Matrix: TCLP

Analyst: RA

Prep Date: 8/21/18

Review By: [illegible]

LAB ID#	MERCURY INITIAL	MERCURY FINAL	COMMENTS	STANDARDS
Method blank	25ml	25ml		CAL CURVE BLK 0ppb V- 285986
LCS	0.169			
LCSD				STD 0.2 ppb V- 285987
MB 05993-014				STD 0.5 ppb V- 285988
MR 05993-014				STD 1.0 ppb V- 285989
MS 05993-014				STD 2.0 ppb V- 285990
MSD 05993-014				STD 5.0 ppb V- 285991
06006-002				STD 10.0 ppb V- 285992
06016-002				STD 25.0 ppb V- 285993
05995-001				ICV 10.0 ppb V- 285984
06018-001				CCV 20.0 ppb V- 285985
06027-001				
06046-005				
06045-002				Balance used: N/A
06062-010				Pipettes used: 121, 150, 135
06064-001				
-002				Hot Block used: 7
-003				
V-285743				
V-283958				

Lot Numbers	Volume (mL)	Acid	Volume (mL)	Lot #
$KMnO_4$: V- 284158	2.75ml	HNO3	0.628ml	V- 11509
$K_2S_2O_8$: V- 284159	2ml	HCl		V-
NH4OH: V- 284160	1.5ml	H2SO4	1.28ml	V- 11491
		Aqua Regia		V-

**Block Temp.: 92.2 °C

Time in Block: 11:30

Time Out of Block: 13:30

Spike Volume & Lot #

☐ LCS V-285972 0.15ml / 0.25 ml

☐ MS V-285972 0.250 ml

☐ Standards/Control Batch B- 25562

Start time: 10:00 End Time: 13:30

**Temperature 245.1 / 7470A: 90-95C 7471B: 92-98C

Relinquished By: RA

*25 mLs of each standard was digested with this batch using the same reagents and at the same time as the above samples. The preparation of each standard may be referenced in Veriprog using the standard batch number and the corresponding V #s.

HG PREP 2016

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP4A\T22981A4.txt

Analysis Date: 08/21/18

Instrument: PEICP4A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-283171	1	CAL	14:05	1							V-283171(ICB/CCB)
CALST2 V-282467	1	CAL	14:09	2							V-282467(LLICV/CCV leachate)
CALST3 V-285445	1	CAL	14:13	3							V-285445(ICS3 - Middle Std)
CALST4 V-285446	1	CAL	14:18	4							V-285446(ICS4 High std)
ICV V-285444	1	ICV	14:23	5							V-285444(CCV)
ICB V-283171	1	ICB	14:27	6							V-283171(ICB/CCB)
LRS V-285234	1	LRS	14:31	7	PB-TCLP	TCLP	TCLP	SW846	69144		V-285234(LRS)
ICS3 V-285445	1	ICS	14:36	8							V-285445(ICS3 - Middle Std)
LLICV V-282467	1	LLICV	14:40	9	PB-TCLP	TCLP	TCLP	SW846	69144		V-282467(LLICV/CCV leachate)
ICSA V-285079	1	ICSA	14:44	10							V-285079(ICSA)
CCV V-285444	1	CCV	14:50	11							V-285444(CCV)
CCB V-283171	1	CCB	14:54	12							V-283171(ICB/CCB)
MB 69144 (1)	1	MB	14:58	13	PB-TCLP	TCLP	TCLP	SW846	69144		()
LCSW 69144	1	LCS	15:02	14	PB-TCLP	TCLP	TCLP	SW846	69144		()
LCSW MR 69144	1	LCS	15:06	15	PB-TCLP	TCLP	TCLP	SW846	69144		()
AD06012-001	1	SMP	15:10	16	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn NOT reported	()
AD06012-001	1	MR	15:15	17	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn NOT reported	()
AD06012-001	1	MS	15:21	18	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn NOT reported (Zn > LR)	()
AD06012-001	1	PS	15:26	19	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn NOT reported (Zn > LR)	()
AD06012-001	5	SD	15:31	20	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn NOT reported	()
CCV V-285444	1	CCV	15:36	21							V-285444(CCV)
CCB V-283171	1	CCB	15:40	22							V-283171(ICB/CCB)
AD05963-001	1	SMP	15:44	23	METALS-TCLP	TCLP	TCLP	SW846	69144		()
AD05967-010	1	SMP	15:49	24	METALS-TCLP	TCLP	TCLP	SW846	69144		()
AD05967-012	1	SMP	15:53	25	METALS-TCLP	TCLP	TCLP	SW846	69144		()
AD06011-001	1	SMP	15:58	26	METALS-TCLP	TCLP	TCLP	SW846	69144	Se NOT reported (Si > LR)	()
AD06011-002	1	SMP	16:02	27	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn NOT reported (Zn > LR)	()
EF-V-285748	1	EF	16:07	28	PB-TCLP	TCLP	TCLP	SW846	69144		V-285748(EF-1 WARNING)
EF-V-283958	1	EF	16:11	29	PB-TCLP	TCLP	TCLP	SW846	69144		V-283958(EF-2 WARNING)
AD06011-001	5	SMP	16:15	30	METALS-TCLP	TCLP	TCLP	SW846	69144	Se reported	()
CCV V-285444	1	CCV	16:19	31							V-285444(CCV)
CCB V-283171	1	CCB	16:23	32							V-283171(ICB/CCB)
AD05941-001	1	SMP	16:28	33	METALS-TCLP	TCLP	TCLP	SW846	69144	Ni (over LR); Se (Si >LR) NOT reported	()
AD05941-004	1	SMP	16:32	34	METALS-TCLP	TCLP	TCLP	SW846	69144	Ni (over LR); Se (Si >LR) NOT reported	()
AD05963-001	1	NA	16:37	35	METALS-TCLP	TCLP	TCLP	SW846	69144	Already analysed (see sequence 23)	()
AD05941-001	10	SMP	16:41	36	METALS-TCLP	TCLP	TCLP	SW846	69144	Ni, Se reported	()
AD05941-004	10	SMP	16:45	37	METALS-TCLP	TCLP	TCLP	SW846	69144	Ni, Se reported	()
AD05850-002	1	SMP	16:49	38	PB-TCLP	TCLP	TCLP	SW846	69144		()
AD05850-004	1	SMP	16:53	39	PB-TCLP	TCLP	TCLP	SW846	69144		()
AD05850-014	1	SMP	16:57	40	PB-TCLP	TCLP	TCLP	SW846	69144		()
CCV V-285444	1	CCV	17:02	41							V-285444(CCV)
CCB V-283171	1	CCB	17:06	42							V-283171(ICB/CCB)
AD05965-002	1	SMP	17:10	43	METALS-TCLP	TCLP	TCLP	SW846	69144		()
AD05965-004	1	SMP	17:14	44	METALS-TCLP	TCLP	TCLP	SW846	69144		()
AD05965-006	1	SMP	17:18	45	METALS-TCLP	TCLP	TCLP	SW846	69144		()
AD05965-008	1	SMP	17:22	46	METALS-TCLP	TCLP	TCLP	SW846	69144		()
AD05965-010	1	SMP	17:26	47	METALS-TCLP	TCLP	TCLP	SW846	69144		()
AD05965-012	1	SMP	17:31	48	METALS-TCLP	TCLP	TCLP	SW846	69144		()
CCV V-285444	1	CCV	17:35	49							V-285444(CCV)
CCB V-283171	1	CCB	17:39	50							V-283171(ICB/CCB)
AD06012-001	2	SMP	17:43	51	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn reported	()
AD06012-001	2	MR	17:47	52	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn reported	()
AD06012-001	2	MS	17:51	53	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn reported	()
AD06012-001	1	PS	17:56	54	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn reported	()
AD06012-001	10	SD	18:01	55	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn reported	()
CCV V-285444	1	CCV	18:05	56							V-285444(CCV)
CCB V-283171	1	CCB	18:09	57							V-283171(ICB/CCB)
MB 70594 (1)	1	MB	18:13	58	METALS-TCLP	TCLP	TCLP	SW846	70594		()
LCSW 70594	1	LCS	18:17	59	METALS-TCLP	TCLP	TCLP	SW846	70594		()

Comments/Reviewedby:

olufemi
192.168.1.76 8/21/2018 5:24:09 PM

RUN IS OK
All elements reported

8/23/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP4A\T22981A4.txt

Analysis Date: 08/21/18

Instrument: PEICP4A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
LCSW MR 70594	1	LCS	18:21	60	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-002	1	SMP	18:25	61	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-002	1	MR	18:29	62	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-002	1	MS	18:34	63	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-002	1	PS	18:38	64	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-002	5	SD	18:42	65	METALS-TCLP	TCLP	TCLP	SW846	70594		0
EF-V-285248	1	EF	18:47	66	METALS-TCLP	TCLP	TCLP	SW846	70594		V-285248(EF-1 WARNING)
CCV V-285444	1	CCV	18:51	67							V-285444(CCV)
CCB V-283171	1	CCB	18:55	68							V-283171(ICB/CCB)
AD05984-004	1	SMP	18:59	69	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-006	1	SMP	19:03	70	METALS-TCLP	TCLP	TCLP	SW846	70594	Se NOT reported (Si > LR)	0
AD05984-008	1	SMP	19:07	71	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-006	2	SMP	19:11	72	METALS-TCLP	TCLP	TCLP	SW846	70594	Se reported	0
AD05984-011	1	SMP	19:15	73	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-015	1	SMP	19:19	74	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-016	1	SMP	19:24	75	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-017	1	SMP	19:28	76	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-019	1	SMP	19:32	77	METALS-TCLP	TCLP	TCLP	SW846	70594		0
CCV V-285444	1	CCV	19:36	78							V-285444(CCV)
CCB V-283171	1	CCB	19:40	79							V-283171(ICB/CCB)
MB 70599 (1)	1	MB	19:44	80	METALS-TCLP	TCLP	TCLP	SW846	70599		0
LCSW 70599	1	LCS	19:48	81	METALS-TCLP	TCLP	TCLP	SW846	70599		0
LCSW MR 70599	1	LCS	19:52	82	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD05993-014	1	SMP	19:56	83	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD05993-014	1	MR	20:00	84	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD05993-014	1	MS	20:05	85	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD05993-014	1	PS	20:09	86	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD05993-014	5	SD	20:13	87	METALS-TCLP	TCLP	TCLP	SW846	70599		0
EF-V-285743 78 OS 8/23/18	1	EF	20:17	88	METALS-TCLP	TCLP	TCLP	SW846	70599		V-285743(Hg AQ standard 2 ppb)
EF-V-283958	1	EF	20:21	89	METALS-TCLP	TCLP	TCLP	SW846	70599		V-283958(EF-2 WARNING)
CCV V-285444	1	CCV	20:25	90							V-285444(CCV)
CCB V-283171	1	CCB	20:29	91							V-283171(ICB/CCB)
AD06006-002	1	SMP	20:33	92	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD06016-002	1	SMP	20:38	93	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD05999-001	1	SMP	20:42	94	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD06002-001	1	SMP	20:46	95	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD06002-002	1	SMP	20:50	96	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD06018-001	1	SMP	20:54	97	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD06027-001	1	SMP	20:58	98	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD06046-005	1	SMP	21:02	99	METALS-TCLP	TCLP	TCLP	SW846	70599		0
CCV V-285444	1	CCV	21:06	100							V-285444(CCV)
CCB V-283171	1	CCB	21:10	101							V-283171(ICB/CCB)
AD06045-002	1	SMP	21:14	102	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD05907-010	1	SMP	21:19	103	PB-TCLP	TCLP	TCLP	SW846	70599		0
AD06063-002	1	SMP	21:23	104	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD06064-001	1	SMP	21:28	105	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD06064-002	1	SMP	21:32	106	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD06064-003	1	SMP	21:36	107	METALS-TCLP	TCLP	TCLP	SW846	70599		0
CCV V-285444	1	CCV	21:41	108							V-285444(CCV)
CCB V-283171	1	CCB	21:45	109							V-283171(ICB/CCB)

Comments/Reviewedby:

olufemi
192.168.1.76 8/21/2018 5:24:09 PM

RUN IS OK
All elements reported

8/23/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\HGCV3A\H22988T.txt

Analysis Date: 08/23/18 **Instrument:** HGCV3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
Calibration Blank	1	CAL	10:55	1							0
.2 PPB	1	CAL	10:56	2							0
.5 PPB	1	CAL	10:58	3							0
1 PPB	1	CAL	10:59	4							0
2 PPB	1	CAL	11:00	5							0
5 PPB	1	CAL	11:02	6							0
10 PPB	1	CAL	11:03	7							0
25 PPB	1	CAL	11:05	8							0
ICV (2)	1	ICV	11:06	9							0
ICB	1	ICB	11:08	10							0
MB 70599 (1)	1	MB	11:10	11	HG-TCLP	TCLP	TCLP	SW846	70599		0
LCS 70599	1	LCS	11:11	12	HG-TCLP	TCLP	TCLP	SW846	70599		0
LCS MR 70599	1	LCS	11:13	13	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD05993-014	1	SMP	11:14	14	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD05993-014	1	MR	11:16	15	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD05993-014	1	MS	11:17	16	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD06006-002	1	SMP	11:19	17	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD06016-002	1	SMP	11:20	18	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD05999-001	1	SMP	11:21	19	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD06018-001	1	SMP	11:23	20	HG-TCLP	TCLP	TCLP	SW846	70599		0
CCV	1	CCV	11:24	21							0
CCB	1	CCB	11:26	22							0
AD06027-001	1	SMP	11:27	23	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD06046-005	1	SMP	11:28	24	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD06045-002	1	SMP	11:30	25	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD06063-002	1	SMP	11:31	26	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD06064-001	1	SMP	11:32	27	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD06064-002	1	SMP	11:34	28	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD06064-003	1	SMP	11:35	29	HG-TCLP	TCLP	TCLP	SW846	70599		0
EF V-285748	1	EF	11:36	30	HG-TCLP	TCLP	TCLP	SW846	70599		V-285748(EF-1 WARNING)
EF V-283958	1	EF	11:38	31	HG-TCLP	TCLP	TCLP	SW846	70599		V-283958(EF-2 WARNING)
CCV	1	CCV	11:39	32							0
CCB	1	CCB	11:41	33							0

Comments/Reviewedby:

carmela
192.168.1.120 8/23/2018 11:50:41 AM

OK

8/23/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

V-286189

Wet Chemistry Data

VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD05999-001
Matrix Soil
Client SampleID: SS-1

Project Number: 8081617
Received Date: 8/16/2018
Collect Date: 8/15/2018

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Cyanide	CN-S-9012	1	ND	mg/Kg	0.25	08/17/18	08/17/18
Sulfur Content	SULFUR	1	ND	%	0.15	08/23/18	08/23/18

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 8081617**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD05999-001	SS-1	Soil	1	95	Percent			08/17/18	08/16/18	08/15/18

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-8271

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD05973-001	95	94.91115	Percent	1.35	13.73	13.11	08/17/18	jessica	2.1	5
Sample	AD05973-001	93	92.90484	Percent	1.35	13.33	12.48	08/17/18	jessica		
Sample	AD05973-002	90	90.19608	Percent	1.35	10.53	9.62	08/17/18	jessica		
Sample	AD05973-005	89	88.70968	Percent	1.35	14.99	13.45	08/17/18	jessica		
Sample	AD05973-007	92	92.20404	Percent	1.36	11.75	10.94	08/17/18	jessica		
Sample	AD05973-008	92	91.74018	Percent	1.33	13.80	12.77	08/17/18	jessica		
Sample	AD05973-009	97	97.34727	Percent	1.35	13.79	13.46	08/17/18	jessica		
Sample	AD05973-010	99	99.00990	Percent	1.35	12.46	12.35	08/17/18	jessica		
Sample	AD05973-011	96	95.76523	Percent	1.37	14.83	14.26	08/17/18	jessica		
Sample	AD05973-012	99	98.93404	Percent	1.35	16.36	16.20	08/17/18	jessica		
Sample	AD05973-013	95	94.94557	Percent	1.36	14.22	13.56	08/17/18	jessica		
Sample	AD05973-014	88	87.66667	Percent	1.36	13.36	11.88	08/17/18	jessica		
Sample	AD05991-005	87	86.88073	Percent	1.35	12.25	10.81	08/17/18	jessica		
Sample	AD05991-006	89	88.95522	Percent	1.34	11.39	10.27	08/17/18	jessica		
Sample	AD05999-001	95	95.16393	Percent	1.33	13.53	12.95	08/17/18	jessica		
Sample	AD06009-001	86	86.17157	Percent	1.35	9.16	8.07	08/17/18	jessica		
Sample	AD06009-002	86	86.00746	Percent	1.35	12.07	10.57	08/17/18	jessica		
Sample	AD06009-003	76	76.22222	Percent	1.33	10.33	8.19	08/17/18	jessica		
Sample	AD06009-004	80	79.66102	Percent	1.35	13.74	11.21	08/17/18	jessica		
Sample	AD06009-005	77	76.51515	Percent	1.36	9.28	7.42	08/17/18	jessica		
Sample	AD06009-006	75	74.66987	Percent	1.35	9.68	7.57	08/17/18	jessica		

* - Indicates Failed Rpd Criteria

Sulfur ASTM D1552

Batch #	202					Sulfur Soil Calculation Results							
analyst	DP												
date	8/23/2018												
							Theoretical Value (%)	Result(%)	% REC	Limits (%)	Flags		
						LCS	2.53	2.58	102	75-125			
						MS	2.66	2.71	102	75-125			
						MSD	2.66	2.69	101	75-125			
		0.139		Sample				ND	RPD				
				Sample Dup				ND	#VALUE!	20			
				MS				2.71	RPD				
				MSD				2.69	0	20			

	Samples #	weight (g)	% (average)	Solid Factor	Dilution factor	Sulfur (%)	RL(%)	Prep. Date	Prep By	Analyzed Date	Analyzed By	% Recovery	True value
	ICV	0.2507	2.57	1.00	1	2.57000	0.1390	8/23/2018	DP/JW	8/23/2018	DP/JW	102	2.53
	ICB	1.0000	0.00524	1.00	1	0.00524	0.1390	8/23/2018	DP/JW	8/23/2018	DP/JW		
	MB	1.0000	0.00403	1.00	1	0.00403	0.1390	8/23/2018	DP/JW	8/23/2018	DP/JW		
	LCS (V-11549)	0.2508	2.58	1.00	1	2.58000	0.1390	8/23/2018	DP/JW	8/23/2018	DP/JW	102	2.53
	AD05999-001	0.2502	0.0207	0.95	1	0.02179	0.1463	8/23/2018	DP/JW	8/23/2018	DP/JW		
	AD05999-001 DUP	0.2505	0.0196	0.95	1	0.02063	0.1463	8/23/2018	DP/JW	8/23/2018	DP/JW		
	AD05999-001 MS	0.2511	2.57	0.95	1	2.70526	0.1463	8/23/2018	DP/JW	8/23/2018	DP/JW		
	AD05999-001 MSD	0.2511	2.56	0.95	1	2.69474	0.1463	8/23/2018	DP/JW	8/23/2018	DP/JW		
	AD06030-012	0.2508	0.0789	0.89	1	0.08865	0.1562	8/23/2018	DP/JW	8/23/2018	DP/JW		
	CCV(V-11549)	0.2502	2.4800	1.00	1	2.48	0.1390	8/23/2018	DP/JW	8/23/2018	DP/JW	98	2.53
	CCB	1.0000	0.00363	1.00	1	0.00363	0.1390	8/23/2018	DP/JW	8/23/2018	DP/JW		

JW 8/29/18

MS/MSD/DUP Recovery

8081617 0232

Prep Batch: S-2009 Sample ID: AD05999-001
Method: EPA 9012B Matrix: Soil

Qc Type: DUP	Limits		DUP	Sample			MS/MSD/DUP			Non Spike		
Analyte	Rpd	Dil	Conc	Conc	Rpd	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Cyanide	35	1	0	0	NA		20180817113	15	08/17/18 12:03	20180817113	14	08/17/18 12:01

Qc Type: MS		Limits		MS	Sample			MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Dil	Conc	Conc	% Rec	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Cyanide	0.4	75-125	1	0.3662	0	92		20180817113	16	08/17/18 12:05	20180817113	14	08/17/18 12:01

Qc Type: MSD		Limits			MSD	Sample				MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Rpd	Dil	Conc	Conc	% Rec	Rpd	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Cyanide	0.4	75-125	20	1	0.3684	0	92	0.6		20180817113	17	08/17/18 12:08	20180817113	14	08/17/18 12:01

LCS Recoveries

			BatchRunID/RunID:====>	201808171130-12							
			QcBatchID:====>	LCSS-2009							
			Date/Time:====>	08/17/18 11:56							
			Analytical Method:====>	EPA 9012B							
			Matrix:====>	Soil		Soil		Soil		Soil		Soil
	EPA 9012B										
Analyte	Amt	Limits	Amt	Limits	% Rec	Flags	% Rec	Flags	% Rec	Flags	% Rec	Flags	% Rec	Flags
Cyanide	0.4	80-120			103									

Calibration Summary:

8081617 0234

Instrument: DA1
Analysis Meth: EPA 9012B

Analyte	Batch ID	Run#	Qc Type	Recov	Spk Amt	Limit
Cyanide	20180817113	9	ICV	106	0.4	85-115
Cyanide	20180817113	21	CCV	103	0.4	85-115
Cyanide	20180817113	33	CCV	103	0.4	85-115
Cyanide	20180817113	40	CCV	103	0.4	85-115

Blank Summary

Instrument: DA1

Qc Type: Method Blank Summary Prep Date: 8/17/18

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20180817113	8/17/18 11:54	MBS-2009	11	Cyanide	ND	0.020

Qc Type: ICB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20180817113	8/17/18 11:51	CCB	10	Cyanide	ND	0.020

Qc Type: CCB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20180817113	8/17/18 12:19	CCB	22	Cyanide	ND	0.020
20180817113	8/17/18 12:47	CCB	34	Cyanide	ND	0.020
20180817113	8/17/18 13:00	CCB	41	Cyanide	ND	0.020

Miscellaneous Data

ZERO HEADSPACE EXTRACTION- SAMPLE ENTRY

Sample ID	Vessel #	Initial Pressure	Final Pressure	Ext. Fluid #	Wt./Vol. Of Sample	Start Date	Start Time	Finish Date	Finish Time	Ext. Type *	pH of HCl preservial	Analyst(s)	Transfer To**	Transfer To**	Comments
AD05962 -025	#5	10	10	EF-A 116966	31.22g 500ml	8/15/18	PM 7:45	8/16/18	1:04	S	<2	JP			
-026	#7				20.10g ml										
-027	#18				20.88g 500ml										
-028	#21				20.55 mP8										
EF-1 285748	#17	10	10	EF-1 285748	500ml	8/21/18	AM 12:43	8/21/18	PM 8:43	T	<2	JP			
AD06006 -001	#22				25g 500ml										
AD05999 -001	#14														
AD06027 -001	#19														
AD06064 -001	#35														
-002	#08														
-003	#15														

*Ext. Type TCLP=T ASTM=A SPLP=S MEP = M
** Initials of person taking custody of extractions

0900

LEACHATE PREPARATION LOG
(TCLP, SPLP)

Start Date: 8/20/18 TIME: 16:40 Finish Date: 8/21/18

**TCLP Ext. Fluid #1 pH: 4.88 (criteria: 4.93 ± 0.05)
**TCLP Ext. Fluid #2 pH: 2.88 (criteria: 2.88 ± 0.05)
**SPLP Ext. Fluid #3 pH: 4.26 (criteria: 4.20 ± 0.05)

Sample #	pH (units)	pH in HCL (units)	Final pH (units)	Ext. Fluid (number)	Wt./Vol of Sample (g or mL)	Start Time	Finish Time	Filter Time	Analyst (s)	Ext. Type*	Comments
05930-006	—	—	8.62	SPLP 285163	100g/2L	17:00	10:45	12:48	EK	P	Balance ID: 037 Organics only
-007			8.31					12:50			pH Meter ID: 838168
-013			8.46					12:39			Pipette ID: 152
SPLP 285163	4.26	—	10.16		2L			12:40			
05993-014	9.27	1.83	5.61	EF1 285748	100g/2L	18:30		11:50		T	Metals only.
06006-002	11.79	9.41	5.99	EF2 283958	150g/3L			11:20			Metals & Org.
06016-002	8.26	1.73	5.11	EF1 285748	100g/2L			11:57			Metals only
05999-001	7.11	1.61	5.06					11:32			
06002-001	10.33	1.53	5.81					11:34			
06002-002	2.57	—	4.89					11:35			
06018-001	9.12	1.75	5.27					11:43.			
06027-001	8.72	1.78	5.14		150g/3L			12:10			Metals & Org.
06046-005	9.81	1.82	5.62		100g/2L			12:32			Metals only.
06045-002	9.68	1.80	5.51					11:23			
05907-010	8.99	1.79	5.15					12:00			
06064-001	9.72	1.81	5.42		150g/3L			12:08			
-06064-002	9.76	1.81	5.58		150g/3L			12:20			Metals & Org.
-06064-003	9.94	1.83	5.61					12:23			
-06063-002	9.95	1.85	5.67		100g/2L			12:30.			
EF1 285748	4.89	—	5.00		3L			11:10			
EF2 283958	2.88	—	3.00	EF2 283958				11:12			

* Ext. Type: TCLP = T (Method 1311) LAMP=L (Methods 1311 / ANSI/NEMA C78.LL 1256-2003)
SPLP = P (Method 1312) MEP=M (Method 1320)
ZHE = Z (Method 1311/1312)

** The pH of the extraction fluid must be checked prior to use and must be within limits specified above

80816170238

Subcontracted Data

This is the last page of the data generated by Hampton-Clarke.
The following pages were submitted to HC by subcontracted laboratories.

ANALYTICAL REPORT

Job Number: 460-162840-1

Job Description: 8081617

For:
Hampton-Clarke Veritech
175 Rt 46 West
Fairfield, NJ 07004

Attention: Sub Data Results

Approved for release.
Rehana X Aqeel
Project Management Assistant I
8/28/2018 3:39 PM

Designee for
Marie A Meidhof, Senior Project Manager
777 New Durham Road, Edison, NJ, 08817
marie.meidhof@testamericainc.com
08/28/2018

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LAO00132

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CASE NARRATIVE

Client: Hampton-Clarke Veritech

Project: 8081617

Report Number: 460-162840-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The sample was received on 8/17/2018 9:25 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.9º C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

ORGANOPHOSPHOROUS PESTICIDES (GC)
Sample AD05999-001 (460-162840-1) was analyzed for Organophosphorous Pesticides (GC) in accordance with EPA SW-846 Method 8141B. The samples were prepared on 08/22/2018 and analyzed on 08/23/2018.

No difficulties were encountered during the pesticides analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE
Sample AD05999-001 (460-162840-1) was analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 08/23/2018.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Hampton-Clarke Veritech
Project/Site: 8081617

TestAmerica Job ID: 460-162840-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-162840-1	AD05999-001	Solid	08/15/18 14:00	08/17/18 09:25

Detection Summary

Client: Hampton-Clarke Veritech
Project/Site: 8081617

TestAmerica Job ID: 460-162840-1

Client Sample ID: AD05999-001 — Lab Sample ID: 460-162840-1

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Hampton-Clarke Veritech
Project/Site: 8081617

TestAmerica Job ID: 460-162840-1

Method	Method Description	Protocol	Laboratory
EPA 8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Client Sample Results

Client: Hampton-Clarke Veritech
Project/Site: 8081617

TestAmerica Job ID: 460-162840-1

Client Sample ID: AD05999-001

Date Collected: 08/15/18 14:00
Date Received: 08/17/18 09:25

Lab Sample ID: 460-162840-1

Matrix: Solid
Percent Solids: 80.3

Method: EPA 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	5.2	U	41	5.2	ug/Kg	☼	08/22/18 11:30	08/23/18 07:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tributyl phosphate	*77*		*20 - 150*	*08/22/18 11:30*	*08/23/18 07:30*	*1*
Tributyl phosphate	*69*		*20 - 150*	*08/22/18 11:30*	*08/23/18 07:30*	*1*
Triphenylphosphate	*86*		*34 - 150*	*08/22/18 11:30*	*08/23/18 07:30*	*1*
Triphenylphosphate	*90*		*34 - 150*	*08/22/18 11:30*	*08/23/18 07:30*	*1*

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Lab Chronicle

Client: Hampton-Clarke Veritech
Project/Site: 8081617

TestAmerica Job ID: 460-162840-1

Client Sample ID: AD05999-001 — Lab Sample ID: 460-162840-1

Date Collected: 08/15/18 14:00
Date Received: 08/17/18 09:25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	254822	08/23/18 12:21	CLL	TAL PIT

Client Sample ID: AD05999-001 — Lab Sample ID: 460-162840-1

Date Collected: 08/15/18 14:00
Date Received: 08/17/18 09:25
Matrix: Solid
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			254675	08/22/18 11:30	SAC	TAL PIT
Total/NA	Analysis	EPA 8141B		1	254752	08/23/18 07:30	JMO	TAL PIT

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Accreditation/Certification Summary

Client: Hampton-Clarke Veritech
Project/Site: 8081617

TestAmerica Job ID: 460-162840-1

Laboratory: TestAmerica Edison

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New Jersey	NELAP	2	12028	06-30-19

Laboratory: TestAmerica Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19
Connecticut	State Program	1	PH-0688	09-30-18
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-19
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-19
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-19
North Carolina (WW/SW)	State Program	4	434	12-31-18
Oregon	NELAP	10	PA-2151	01-28-19
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19
Texas	NELAP	6	T104704528-15-2	03-31-19
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19
Virginia	NELAP	3	460189	09-14-18 *
West Virginia DEP	State Program	3	142	01-31-19
Wisconsin	State Program	5	998027800	08-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Instrument ID: CHGC5 Analysis Batch Number: 240093

Lab Sample ID: IC 180-240093/1 Client Sample ID:

Date Analyzed: 03/21/18 08:43 Lab File ID: L0321005.D GC Column: RTX-OPP1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Mocap	10.82	Split Peak	oravecj	03/22/18 08:14

EPA 8141B

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Instrument ID: CHGC5 Analysis Batch Number: 254752

Lab Sample ID: CCVRT 180-254752/1 Client Sample ID:

Date Analyzed: 08/23/18 06:24 Lab File ID: L0082301.D GC Column: RTX-OPP1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Disulfoton	11.77	Split Peak	oravecj	08/23/18 08:32

Lab Sample ID: CCV 180-254752/7 Client Sample ID:

Date Analyzed: 08/23/18 09:42 Lab File ID: L0082307.D GC Column: RTX-OPP1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Disulfoton	11.77	Split Peak	oravecj	08/23/18 10:53

Method 8141B

Organophosphorous Pesticides (GC/MS) by Method 8141B

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RTX-OPP1 ID: 0.53(mm) GC Column (2): RTX-OPP2 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TBPH1 #	TBPH2 #	TPP1 #	TPP2 #
AD05999-001	460-162840-1	77	69	86	90
	MB 180-254675/1-A	81	71	87	92
	LCS 180-254675/2-A	87	82	88	92
AD05999-001 MS	460-162840-1 MS	72	69	77	85
AD05999-001 MSD	460-162840-1 MSD	79	74	81	87

	QC LIMITS
TBPH = Tributyl phosphate	20-150
TPP = Triphenylphosphate	34-150

Column to be used to flag recovery values

FORM II EPA 8141B

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: L0082306.D

Lab ID: LCS 180-254675/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Parathion	333	300	90	71-150	

Column to be used to flag recovery and RPD values

FORM III EPA 8141B

FORM III
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: L0082304.D

Lab ID: 460-162840-1 MS Client ID: AD05999-001 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Parathion	415	5.2 U	341	82	71-150	

Column to be used to flag recovery and RPD values

FORM III EPA 8141B

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: L0082305.D

Lab ID: 460-162840-1 MSD Client ID: AD05999-001 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Parathion	415	374	90	9	15	71-150	

Column to be used to flag recovery and RPD values

FORM III EPA 8141B

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Lab Sample ID: MB 180-254675/1-A

Matrix: Solid Date Extracted: 08/22/2018 11:30

Lab File ID:(1) L0082302.D Lab File ID:(2) L0082302.D

Date Analyzed:(1) 08/23/2018 06:57 Date Analyzed:(2) 08/23/2018 06:57

Instrument ID:(1) CHGC5 Instrument ID:(2) CHGC5

GC Column:(1) RTX-OPP1 ID: 0.53(mm) GC Column:(2) RTX-OPP2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
AD05999-001	460-162840-1	08/23/2018 07:30	08/23/2018 07:30
AD05999-001 MS	460-162840-1 MS	08/23/2018 08:03	08/23/2018 08:03
AD05999-001 MSD	460-162840-1 MSD	08/23/2018 08:36	08/23/2018 08:36
	LCS 180-254675/2-A	08/23/2018 09:09	08/23/2018 09:09

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Sample No.: CCVRT 180-254752/1 Date Analyzed: 08/23/2018 06:24

Instrument ID: CHGC5 GC Column: RTX-OPP1 ID: 0.53(mm)

Lab File ID (Standard): L0082301.D Heated Purge: (Y/N) N

Calibration ID: 37534

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TBPH	TPP	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				11.04	20.60	
UPPER LIMIT				11.07	20.63	
LOWER LIMIT				11.01	20.57	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 180-254752/1		08/23/2018 06:24	L0082301.D	11.04	20.60	
MB 180-254675/1-A		08/23/2018 06:57	L0082302.D	11.04	20.60	
460-162840-1	AD05999-001	08/23/2018 07:30	L0082303.D	11.04	20.60	
460-162840-1 MS	AD05999-001 MS	08/23/2018 08:03	L0082304.D	11.04	20.60	
460-162840-1 MSD	AD05999-001 MSD	08/23/2018 08:36	L0082305.D	11.04	20.60	
LCS 180-254675/2-A		08/23/2018 09:09	L0082306.D	11.04	20.60	
CCV 180-254752/7		08/23/2018 09:42	L0082307.D	11.04	20.60	

TBPH = Tributyl phosphate
TPP = Triphenylphosphate

TBPH RT Limit = ± 0.03 minutes of surrogate RT
TPP RT Limit = ± 0.03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII EPA 8141B

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Sample No.: CCVRT 180-254752/1 Date Analyzed: 08/23/2018 06:24

Instrument ID: CHGC5 GC Column: RTX-OPP2 ID: 0.53(mm)

Lab File ID (Standard): L0082301.D Heated Purge: (Y/N) N

Calibration ID: 37535

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TBPH	TPP	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				10.72	22.27	
UPPER LIMIT				10.75	22.30	
LOWER LIMIT				10.69	22.24	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 180-254752/1		08/23/2018 06:24	L0082301.D	10.72	22.27	
MB 180-254675/1-A		08/23/2018 06:57	L0082302.D	10.72	22.27	
460-162840-1	AD05999-001	08/23/2018 07:30	L0082303.D	10.72	22.27	
460-162840-1 MS	AD05999-001 MS	08/23/2018 08:03	L0082304.D	10.72	22.27	
460-162840-1 MSD	AD05999-001 MSD	08/23/2018 08:36	L0082305.D	10.72	22.27	
LCS 180-254675/2-A		08/23/2018 09:09	L0082306.D	10.72	22.27	
CCV 180-254752/7		08/23/2018 09:42	L0082307.D	10.72	22.27	

TBPH = Tributyl phosphate
TPP = Triphenylphosphate

TBPH RT Limit = ± 0.03 minutes of surrogate RT
TPP RT Limit = ± 0.03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII EPA 8141B

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 180-254675/2-A

Instrument ID (1): CHGC5 Instrument ID (2): CHGC5

Date Analyzed (1): 08/23/2018 09:09 Date Analyzed (2): 08/23/2018 09:09

GC Column (1): RTX-OPP1 ID: 0.53(mm) GC Column (2): RTX-OPP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Parathion	1		16.21	16.18	16.24	293		2.3
	2		15.81	15.78	15.84	300		

FORM X EPA 8141B

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Client Sample ID: AD05999-001 MS Lab Sample ID: 460-162840-1 MS

Instrument ID (1): CHGC5 Instrument ID (2): CHGC5

Date Analyzed (1): 08/23/2018 08:03 Date Analyzed (2): 08/23/2018 08:03

GC Column (1): RTX-OPP1 ID: 0.53(mm) GC Column (2): RTX-OPP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Parathion	1		16.21	16.18	16.24	331		3.0
	2		15.81	15.78	15.84	341		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Client Sample ID: AD05999-001 MSD Lab Sample ID: 460-162840-1 MSD

Instrument ID (1): CHGC5 Instrument ID (2): CHGC5

Date Analyzed (1): 08/23/2018 08:36 Date Analyzed (2): 08/23/2018 08:36

GC Column (1): RTX-OPP1 ID: 0.53(mm) GC Column (2): RTX-OPP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Parathion	1		16.21	16.18	16.24	363		3.0
	2		15.81	15.78	15.84	374		

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 460-162840-1
SDG No.:
Client Sample ID: AD05999-001
Lab Sample ID: 460-162840-1
Matrix: Solid
Lab File ID: L0082303.D
Analysis Method: EPA 8141B
Date Collected: 08/15/2018 14:00
Extraction Method: 3541
Date Extracted: 08/22/2018 11:30
Sample wt/vol: 15.0(g)
Date Analyzed: 08/23/2018 07:30
Con. Extract Vol.: 2.5(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: RTX-OPP1 ID: 0.53(mm)
% Moisture: 19.7
GPC Cleanup:(Y/N) N
Analysis Batch No.: 254752
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-38-2	Parathion	5.2	U	41	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
126-73-8	Tributyl phosphate	77		20-150
115-86-6	Triphenylphosphate	86		34-150

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082303.D
Lims ID: 460-162840-A-1-C
Client ID: AD05999-001
Sample Type: Client
Inject. Date: 23-Aug-2018 07:30:16 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0023306-003
Operator ID: 402331 Instrument ID: CHGC5

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 23-Aug-2018 10:54:25 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Aug-2018 08:33:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
$ 1 Tributyl phosphate						
1	11.041	11.043	-0.002	70438945	H	1.55
2	10.719	10.718	0.001	73864137	H	1.38
					RPD =	11.74
$ 2 Triphenylphosphate						
1	20.601	20.604	-0.003	28925267	H	1.71
2	22.268	22.270	-0.002	34225166	H	1.80
					RPD =	5.03
3 o,o',o''-Triethylphosphorothioate						
1		4.895			ND	
2		5.044				
4 Dichlorvos						
1		6.906			ND	
2		6.305				
5 Mevinphos						
1		9.474			ND	
2		8.652				
6 Demeton-O						
1		9.947			ND	
2		10.578				
7 Thionazin						
1		10.136			ND	
2		10.683				
8 Ethoprop						
1		10.550			ND	
2		10.862				
9 Phorate						
1		10.599			ND	
2		11.503				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
10 Sulfotepp						
1		10.973			ND	
2		11.464				
11 Diazinon						
1		11.413			ND	
2		12.565				
12 Disulfoton						
1		11.771			ND	
2		12.767				
13 Demeton-S						
1		11.798			ND	
2		11.946				
14 Dimethoate						U
1		12.583			ND	
2		12.348				
15 Ronnel						
1		12.907			ND	
2		14.328				
16 Chlorpyrifos						
1		13.619			ND	
2		15.610				
17 Fenthion						
1		13.829			ND	
2		15.879				
18 Trichloronate						
1		13.902			ND	
2		15.747				
19 Methyl parathion						
1		14.635			ND	
2		14.270				
20 Malathion						
1		14.981			ND	
2		15.491				
21 Tokuthion						
1		16.055			ND	
2		18.406				
22 Ethyl Parathion						
1		16.211			ND	
2		15.808				
23 Stirophos						
1		17.224			ND	
2		18.210				
24 Bolstar						
1		18.304			ND	
2		20.896				
25 Fensulfothion						
1		21.195			ND	
2		20.658				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
26 EPN						
1		22.255			ND	
2		22.963				
27 Famphur						
1		22.500			ND	
2		21.586				
28 Azinphos-methyl						
1		22.894			ND	
2		24.147				
29 Coumaphos						
1		25.547			ND	
2		25.392				
S 30 Demeton, Total						
1		10.230			ND	
2		10.611				

QC Flag Legend

Review Flags

U - Marked Undetected

Report Date: 23-Aug-2018 10:54:35 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082303.D				
Injection Date:	23-Aug-2018 07:30:16	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	460-162840-A-1-C	Lab Sample ID:	180-162840-1	Worklist Smp#:	3
Client ID:	AD05999-001				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

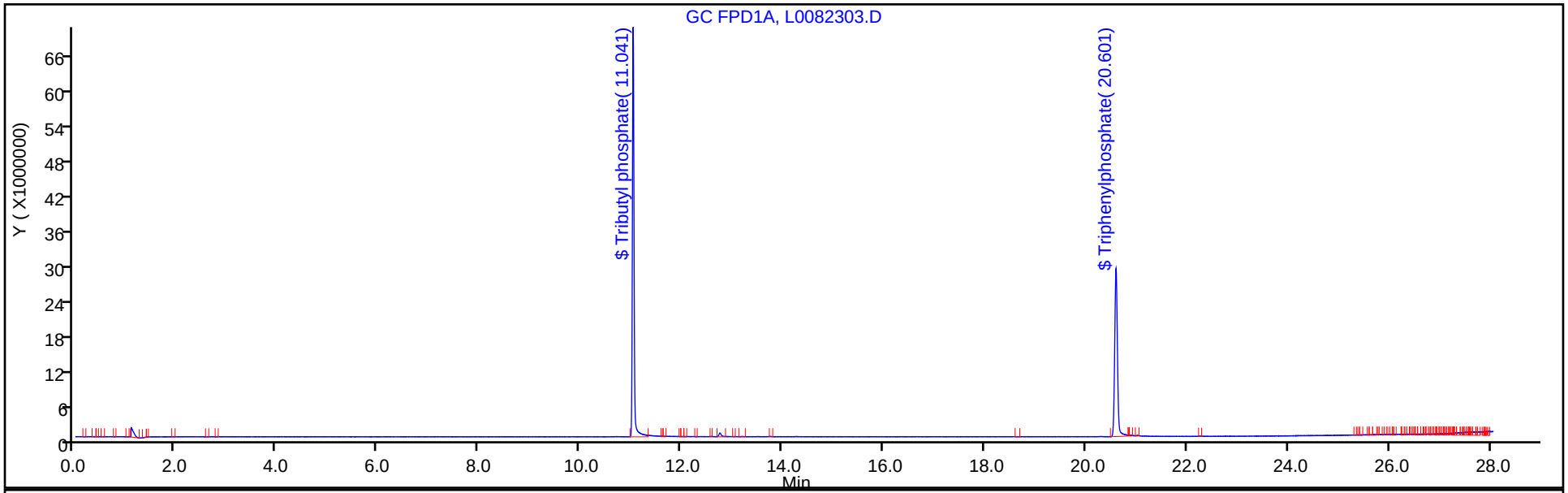

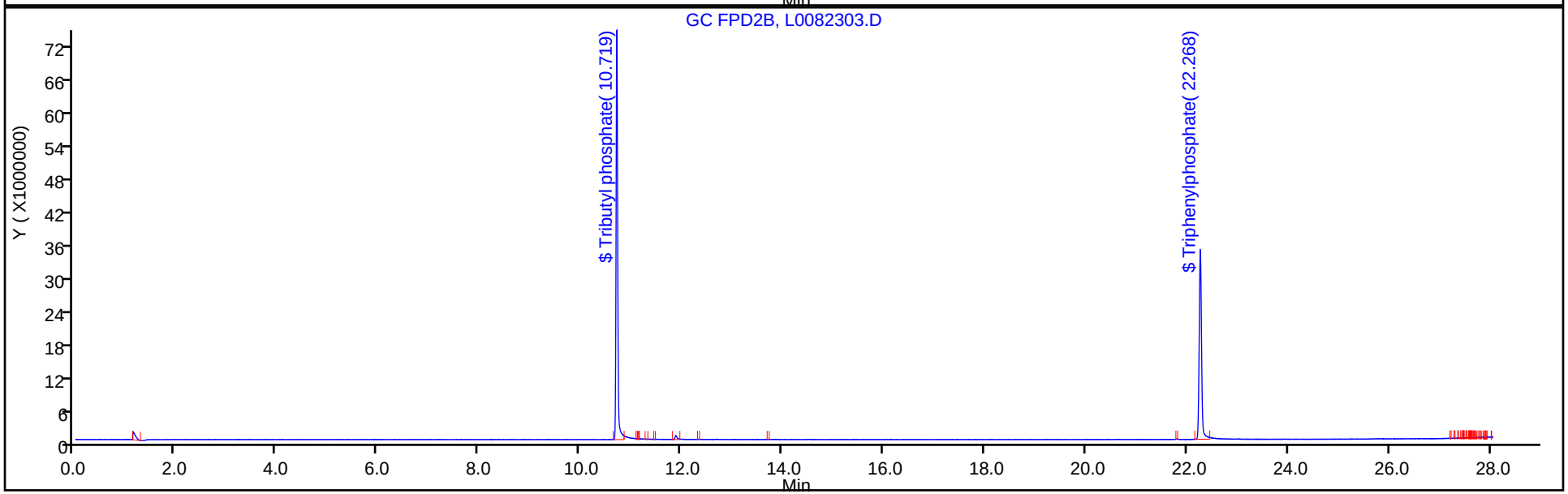

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Client Sample ID: AD05999-001 Lab Sample ID: 460-162840-1

Matrix: Solid Lab File ID: L0082303.D

Analysis Method: EPA 8141B Date Collected: 08/15/2018 14:00

Extraction Method: 3541 Date Extracted: 08/22/2018 11:30

Sample wt/vol: 15.0(g) Date Analyzed: 08/23/2018 07:30

Con. Extract Vol.: 2.5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-OPP2 ID: 0.53(mm)

% Moisture: 19.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 254752 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
126-73-8	Tributyl phosphate	69		20-150
115-86-6	Triphenylphosphate	90		34-150

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082303.D
Lims ID: 460-162840-A-1-C
Client ID: AD05999-001
Sample Type: Client
Inject. Date: 23-Aug-2018 07:30:16 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0023306-003
Operator ID: 402331 Instrument ID: CHGC5

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 23-Aug-2018 10:54:25 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Aug-2018 08:33:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
$ 1 Tributyl phosphate						
1	11.041	11.043	-0.002	70438945	H	1.55
2	10.719	10.718	0.001	73864137	H	1.38
					RPD =	11.74
$ 2 Triphenylphosphate						
1	20.601	20.604	-0.003	28925267	H	1.71
2	22.268	22.270	-0.002	34225166	H	1.80
					RPD =	5.03
3 o,o',o''-Triethylphosphorothioate						
1		4.895			ND	
2		5.044				
4 Dichlorvos						
1		6.906			ND	
2		6.305				
5 Mevinphos						
1		9.474			ND	
2		8.652				
6 Demeton-O						
1		9.947			ND	
2		10.578				
7 Thionazin						
1		10.136			ND	
2		10.683				
8 Ethoprop						
1		10.550			ND	
2		10.862				
9 Phorate						
1		10.599			ND	
2		11.503				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
10 Sulfotepp						
1		10.973			ND	
2		11.464				
11 Diazinon						
1		11.413			ND	
2		12.565				
12 Disulfoton						
1		11.771			ND	
2		12.767				
13 Demeton-S						
1		11.798			ND	
2		11.946				
14 Dimethoate						U
1		12.583			ND	
2		12.348				
15 Ronnel						
1		12.907			ND	
2		14.328				
16 Chlorpyrifos						
1		13.619			ND	
2		15.610				
17 Fenthion						
1		13.829			ND	
2		15.879				
18 Trichloronate						
1		13.902			ND	
2		15.747				
19 Methyl parathion						
1		14.635			ND	
2		14.270				
20 Malathion						
1		14.981			ND	
2		15.491				
21 Tokuthion						
1		16.055			ND	
2		18.406				
22 Ethyl Parathion						
1		16.211			ND	
2		15.808				
23 Stirophos						
1		17.224			ND	
2		18.210				
24 Bolstar						
1		18.304			ND	
2		20.896				
25 Fensulfothion						
1		21.195			ND	
2		20.658				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
26 EPN						
1		22.255			ND	
2		22.963				
27 Famphur						
1		22.500			ND	
2		21.586				
28 Azinphos-methyl						
1		22.894			ND	
2		24.147				
29 Coumaphos						
1		25.547			ND	
2		25.392				
S 30 Demeton, Total						
1		10.230			ND	
2		10.611				

QC Flag Legend

Review Flags

U - Marked Undetected

Report Date: 23-Aug-2018 10:54:35 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082303.D				
Injection Date:	23-Aug-2018 07:30:16	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	460-162840-A-1-C	Lab Sample ID:	180-162840-1	Worklist Smp#:	3
Client ID:	AD05999-001				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

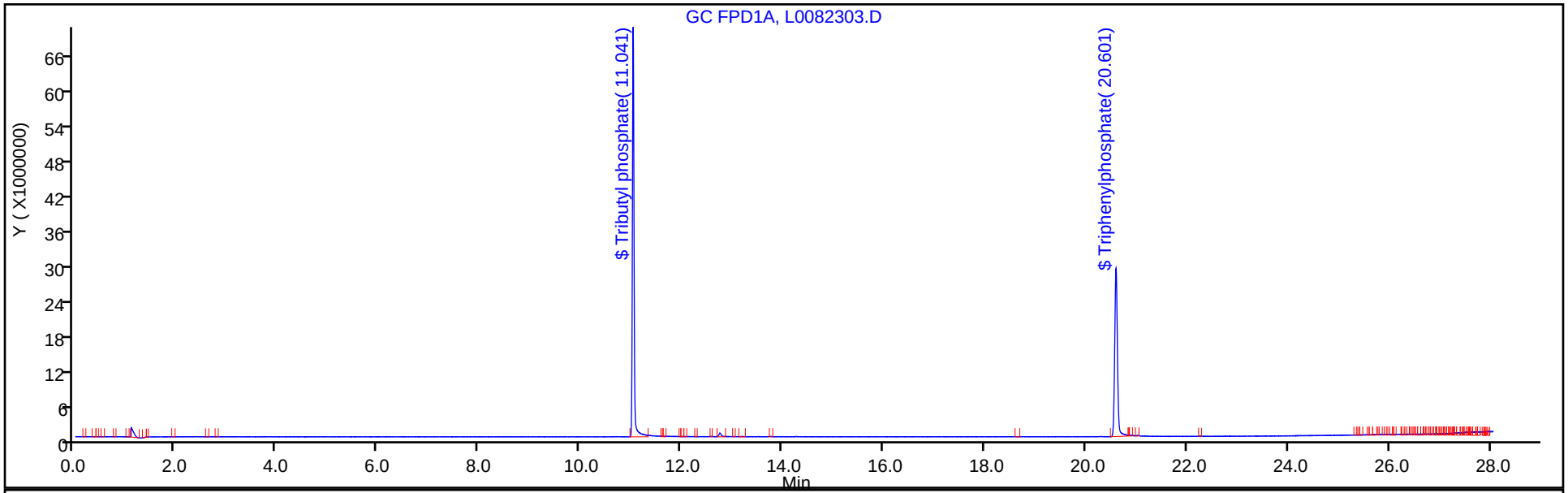

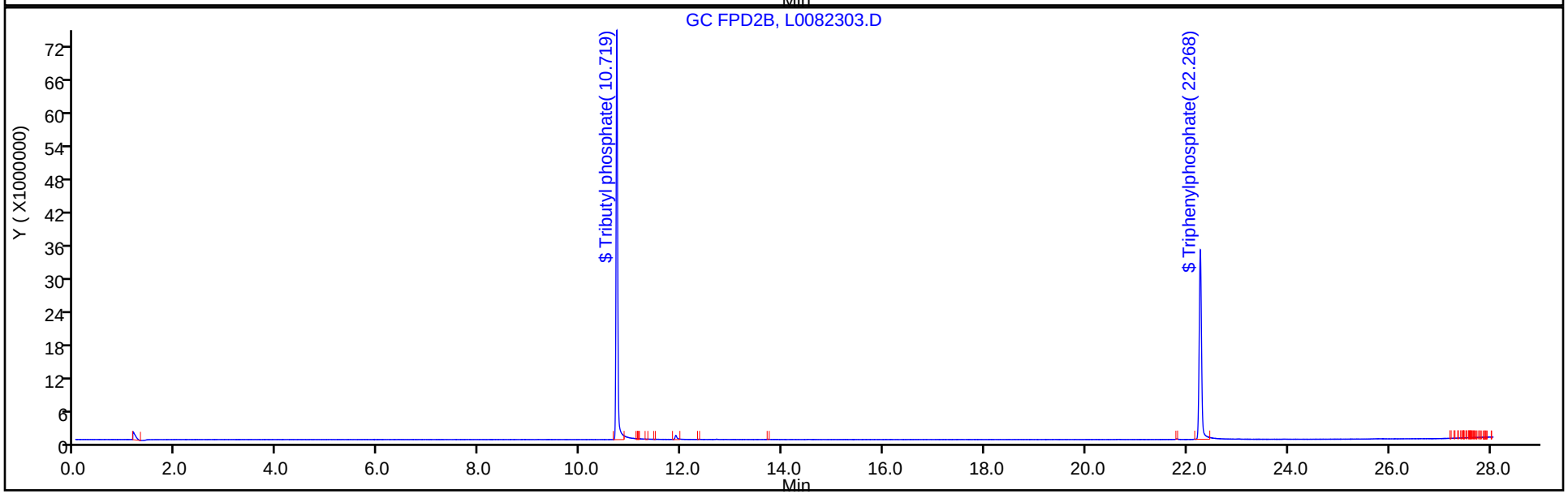

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1 Analy Batch No.: 240093

SDG No.:

Instrument ID: CHGC5 GC Column: RTX-OPP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 08:43 Calibration End Date: 03/21/2018 10:55 Calibration ID: 37534

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240093/1	L0321005.D
Level 2	IC 180-240093/2	L0321006.D
Level 3	ICRT 180-240093/3	L0321007.D
Level 4	IC 180-240093/4	L0321008.D
Level 5	IC 180-240093/5	L0321009.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
O,O,O-Triethyl phosphorothioate	5.102	5.102	5.103	5.105	5.105						5.075 - 5.135	5.103
Dichlorvos	7.176	7.177	7.177	7.179	7.178						7.149 - 7.209	7.177
Mevinphos	9.771	9.771	9.772	9.774	9.774						9.744 - 9.804	9.772
Demeton-O	10.196	10.196	10.197	10.200	10.200						10.170 - 10.230	10.198
Thionazin	10.399	10.398	10.400	10.403	10.402						10.373 - 10.433	10.400
Mocap	10.823	10.823	10.823	10.827	10.824						10.797 - 10.857	10.824
Phorate	10.846	10.848	10.850	10.854	10.853						10.824 - 10.884	10.850
Sulfotepp	11.237	11.237	11.239	11.241	11.242						11.211 - 11.271	11.239
Diazinon	11.648	11.647	11.648	11.652	11.651						11.622 - 11.682	11.649
Disulfoton	12.021	12.021	12.022	12.025	12.024						11.995 - 12.055	12.023
Demeton-S	12.071	12.071	12.071	12.075	12.073						12.045 - 12.105	12.072
Dimethoate	12.969	12.967	12.969	12.973	12.973						12.943 - 13.003	12.970
Ronnel	13.248	13.246	13.247	13.253	13.250						13.223 - 13.283	13.249
Chlorpyrifos	14.011	14.012	14.013	14.018	14.017						13.988 - 14.048	14.014
Fenthion	14.258	14.257	14.261	14.266	14.265						14.236 - 14.296	14.261
Trichloronate	14.320	14.318	14.317	14.325	14.325						14.295 - 14.355	14.321
Methyl parathion	15.222	15.221	15.223	15.230	15.225						15.200 - 15.260	15.224
Malathion	15.536	15.537	15.535	15.544	15.542						15.514 - 15.574	15.539
Tokuthion	16.519	16.522	16.523	16.529	16.528						16.499 - 16.559	16.524
Parathion	16.766	16.768	16.768	16.775	16.772						16.745 - 16.805	16.770
Stirophos	17.739	17.739	17.738	17.745	17.742						17.715 - 17.775	17.741
Bolstar	18.757	18.757	18.756	18.762	18.762						18.732 - 18.792	18.759
Fensulfothion	21.722	21.721	21.721	21.727	21.726						21.697 - 21.757	21.723
EPN	22.694	22.692	22.693	22.698	22.698						22.668 - 22.728	22.695
Famphur	22.988	22.985	22.986	22.990	22.990						22.960 - 23.020	22.988
Azinphos-methyl	23.316	23.317	23.315	23.320	23.319						23.290 - 23.350	23.317
Coumaphos	25.949	25.950	25.952	25.955	25.954						25.925 - 25.985	25.952
Tributyl phosphate	11.315	11.314	11.316	11.319	11.317						11.289 - 11.349	11.316
Triphenylphosphate	21.086	21.087	21.086	21.092	21.090						21.062 - 21.122	21.088

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1 Analy Batch No.: 240093

SDG No.:

Instrument ID: CHGC5 GC Column: RTX-OPP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 08:43 Calibration End Date: 03/21/2018 10:55 Calibration ID: 37534

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240093/1	L0321005.D
Level 2	IC 180-240093/2	L0321006.D
Level 3	ICRT 180-240093/3	L0321007.D
Level 4	IC 180-240093/4	L0321008.D
Level 5	IC 180-240093/5	L0321009.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
O,O,O-Triethyl phosphorothioate	81883545 77383944	77538978	78392076	76248461	Ave		78289400.8				2.7		20.0			
Dichlorvos	69751465 65642493	66736524	66530767	65698033	Ave		66871856.3				2.5		20.0			
Mevinphos	47959000 51553991	49793408	50765314	50498051	Ave		50113952.8				2.7		20.0			
Demeton-O	51357735 47786343	49801941	49549182	48920934	Ave		49483227.1				2.6		20.0			
Thionazin	55194820 51045267	53447722	55029146	51853890	Ave		53314169.0				3.5		20.0			
Mocap	60526315 55380175	58339098	57807649	56860244	Ave		57782696.0				3.3		20.0			
Phorate	56534790 50275744	55253664	54530307	53202340	Ave		53959369.0				4.4		20.0			
Sulfotepp	84074935 78259708	81540992	80925598	80764547	Ave		81113156.0				2.6		20.0			
Diazinon	44482580 40465150	43510790	41559264	42034445	Ave		42410445.8				3.8		20.0			
Disulfoton	45792810 42335877	44867756	44201505	43741166	Ave		44187822.8				2.9		20.0			
Demeton-S	48102439 47646062	48869315	49338464	49623730	Ave		48716002.0				1.7		20.0			
Dimethoate	33890325 41964932	37850172	40176448	42023988	Ave		39181172.9				8.7		20.0			
Ronnel	31078740 29828690	31009306	30207519	30738772	Ave		30572605.4				1.8		20.0			
Chlorpyrifos	24379355 22370379	24000456	23008160	23314135	Ave		23414497.0				3.4		20.0			
Fenthion	31304750 28585875	30765094	29703150	29887215	Ave		30049216.7				3.5		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1 Analy Batch No.: 240093

SDG No.:

Instrument ID: CHGC5 GC Column: RTX-OPP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 08:43 Calibration End Date: 03/21/2018 10:55 Calibration ID: 37534

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Trichloronate	25143980 22564702	24523622	23644079	23480015	Ave		23871279.5				4.2		20.0			
Methyl parathion	26401670 25634658	26050866	26051755	26092348	Ave		26046259.3				1.0		20.0			
Malathion	20503860 19333388	20004092	20037214	20059510	Ave		19987612.8				2.1		20.0			
Tokuthion	19907765 17916371	19294430	18797273	18792343	Ave		18941636.4				3.9		20.0			
Parathion	25367945 23731839	24477080	24905189	24214398	Ave		24539290.2				2.6		20.0			
Stirophos	17787910 18089727	18161754	18087189	18496356	Ave		18124587.2				1.4		20.0			
Bolstar	21758575 20041792	21519258	20927762	20950281	Ave		21039533.5				3.2		20.0			
Fensulfothion	22266380 25974854	24876360	24829487	26673629	Ave		24924141.9				6.7		20.0			
EPN	22810660 24255821	23225090	23864536	23988515	Ave		23628924.4				2.5		20.0			
Famphur	26576310 27499746	26814170	27119203	27520843	Ave		27106054.4				1.5		20.0			
Azinphos-methyl	20362990 23907711	21945708	22710262	24230376	Ave		22631409.4				6.9		20.0			
Coumaphos	24008155 24131424	24631552	24072784	24188751	Ave		24206533.2				1.0		20.0			
Tributyl phosphate	52697130 40713910	44541962	44628477	44903208	Ave		45496937.4				9.6		20.0			
Triphenylphosphate	18216960 16308843	16341200	16435853	17065667	Ave		16873704.4				4.8		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1 Analy Batch No.: 240093

SDG No.:

Instrument ID: CHGC5 GC Column: RTX-OPP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 08:43 Calibration End Date: 03/21/2018 10:55 Calibration ID: 37534

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240093/1	L0321005.D
Level 2	IC 180-240093/2	L0321006.D
Level 3	ICRT 180-240093/3	L0321007.D
Level 4	IC 180-240093/4	L0321008.D
Level 5	IC 180-240093/5	L0321009.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
O,O,O-Triethyl phosphorothioate	Ave	16376709	38769489	78392076	152496922	309535776	0.200	0.500	1.00	2.00	4.00
Dichlorvos	Ave	13950293	33368262	66530767	131396065	262569972	0.200	0.500	1.00	2.00	4.00
Mevinphos	Ave	9591800	24896704	50765314	100996102	206215964	0.200	0.500	1.00	2.00	4.00
Demeton-O	Ave	3492326	8466330	16846722	33266235	64989426	0.0680	0.170	0.340	0.680	1.36
Thionazin	Ave	11038964	26723861	55029146	103707780	204181067	0.200	0.500	1.00	2.00	4.00
Mocap	Ave	12105263	29169549	57807649	113720487	221520698	0.200	0.500	1.00	2.00	4.00
Phorate	Ave	11306958	27626832	54530307	106404680	201102975	0.200	0.500	1.00	2.00	4.00
Sulfotepp	Ave	16814987	40770496	80925598	161529094	313038831	0.200	0.500	1.00	2.00	4.00
Diazinon	Ave	8896516	21755395	41559264	84068890	161860599	0.200	0.500	1.00	2.00	4.00
Disulfoton	Ave	9158562	22433878	44201505	87482331	169343509	0.200	0.500	1.00	2.00	4.00
Demeton-S	Ave	6349522	16126874	32563386	65503323	125785604	0.132	0.330	0.660	1.32	2.64
Dimethoate	Ave	6778065	18925086	40176448	84047975	167859727	0.200	0.500	1.00	2.00	4.00
Ronnel	Ave	6215748	15504653	30207519	61477543	119314761	0.200	0.500	1.00	2.00	4.00
Chlorpyrifos	Ave	4875871	12000228	23008160	46628269	89481517	0.200	0.500	1.00	2.00	4.00
Fenthion	Ave	6260950	15382547	29703150	59774429	114343499	0.200	0.500	1.00	2.00	4.00
Trichloronate	Ave	5028796	12261811	23644079	46960029	90258807	0.200	0.500	1.00	2.00	4.00
Methyl parathion	Ave	5280334	13025433	26051755	52184695	102538632	0.200	0.500	1.00	2.00	4.00
Malathion	Ave	4100772	10002046	20037214	40119020	77333552	0.200	0.500	1.00	2.00	4.00
Tokuthion	Ave	3981553	9647215	18797273	37584686	71665483	0.200	0.500	1.00	2.00	4.00
Parathion	Ave	5073589	12238540	24905189	48428796	94927355	0.200	0.500	1.00	2.00	4.00
Stirophos	Ave	3557582	9080877	18087189	36992711	72358909	0.200	0.500	1.00	2.00	4.00
Bolstar	Ave	4351715	10759629	20927762	41900561	80167167	0.200	0.500	1.00	2.00	4.00
Fensulfothion	Ave	4453276	12438180	24829487	53347257	103899415	0.200	0.500	1.00	2.00	4.00
EPN	Ave	4562132	11612545	23864536	47977030	97023283	0.200	0.500	1.00	2.00	4.00
Famphur	Ave	5315262	13407085	27119203	55041686	109998984	0.200	0.500	1.00	2.00	4.00
Azinphos-methyl	Ave	4072598	10972854	22710262	48460752	95630844	0.200	0.500	1.00	2.00	4.00
Coumaphos	Ave	4801631	12315776	24072784	48377501	96525697	0.200	0.500	1.00	2.00	4.00
Tributyl phosphate	Ave	10539426	22270981	44628477	89806415	162855641	0.200	0.500	1.00	2.00	4.00
Triphenylphosphate	Ave	3643392	8170600	16435853	34131333	65235370	0.200	0.500	1.00	2.00	4.00

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321005.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 21-Mar-2018 08:43:17 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020992-001
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 22-Mar-2018 08:17:17 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK016

First Level Reviewer: oravecj Date: 22-Mar-2018 08:14:23

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.315	11.319	-0.004	10539426H	0.2000	0.2317	
2	10.689	10.694	-0.005	12005643H	0.2000	0.2237	
						RPD = 3.48	
$ 2 Triphenylphosphate							
1	21.086	21.092	-0.006	3643392H	0.2000	0.2159	
2	22.257	22.264	-0.007	4097552H	0.2000	0.2158	
						RPD = 0.05	
3 o,o',o''-Triethylphosphorothioate							
1	5.102	5.105	-0.003	16376709H	0.2000	0.2092	
2	5.020	5.023	-0.003	18629962H	0.2000	0.2089	
						RPD = 0.14	
4 Dichlorvos							
1	7.176	7.179	-0.003	13950293H	0.2000	0.2086	
2	6.281	6.284	-0.003	14793580H	0.2000	0.2074	
						RPD = 0.57	
5 Mevinphos							
1	9.771	9.774	-0.003	9591800H	0.2000	0.1914	
2	8.628	8.631	-0.003	9752991H	0.2000	0.1944	
						RPD = 1.55	
6 Demeton-O							
1	10.196	10.200	-0.004	3492326H	0.0680	0.0706	
2	10.555	10.559	-0.004	3791130H	0.0680	0.0697	
						RPD = 1.28	
7 Thionazin							
1	10.399	10.403	-0.004	11038964H	0.2000	0.2071	
2	10.661	10.665	-0.004	12675240H	0.2000	0.2064	
						RPD = 0.31	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							M
1	10.823	10.827	-0.004	12105263H	0.2000	0.2095	
2	10.838	10.842	-0.004	12136462H	0.2000	0.2048	
						RPD = 2.29	
9 Phorate							M
1	10.846	10.854	-0.008	11306958H	0.2000	0.2095	
2	11.477	11.482	-0.005	12336038H	0.2000	0.2103	
						RPD = 0.36	
10 Sulfotepp							
1	11.237	11.241	-0.004	16814987H	0.2000	0.2073	
2	11.446	11.450	-0.004	18664771H	0.2000	0.2059	
						RPD = 0.69	
11 Diazinon							
1	11.648	11.652	-0.004	8896516H	0.2000	0.2098	
2	12.539	12.544	-0.005	8317243H	0.2000	0.2056	
						RPD = 2.02	
12 Disulfoton							
1	12.021	12.025	-0.004	9158562H	0.2000	0.2073	
2	12.737	12.744	-0.007	8381636H	0.2000	0.2066	
						RPD = 0.31	
13 Demeton-S							
1	12.071	12.075	-0.004	6349522H	0.1320	0.1303	
2	11.916	11.920	-0.004	6829000H	0.1320	0.1284	
						RPD = 1.46	
14 Dimethoate							
1	12.969	12.973	-0.004	6778065H	0.2000	0.1730	
2	12.319	12.325	-0.006	8599046H	0.2000	0.1724	
						RPD = 0.34	
15 Ronnel							
1	13.248	13.253	-0.005	6215748H	0.2000	0.2033	
2	14.292	14.300	-0.008	5778996H	0.2000	0.2051	
						RPD = 0.88	
16 Chlorpyrifos							
1	14.011	14.018	-0.007	4875871H	0.2000	0.2082	
2	15.581	15.589	-0.008	4541277H	0.2000	0.2062	
						RPD = 0.98	
17 Fenthion							
1	14.258	14.266	-0.008	6260950H	0.2000	0.2084	
2	15.850	15.860	-0.010	6090110H	0.2000	0.2048	
						RPD = 1.70	
18 Trichloronate							
1	14.320	14.325	-0.005	5028796H	0.2000	0.2107	
2	15.708	15.716	-0.008	4751160H	0.2000	0.2049	
						RPD = 2.77	
19 Methyl parathion							
1	15.222	15.230	-0.008	5280334H	0.2000	0.2027	
2	14.236	14.242	-0.006	6610359H	0.2000	0.2005	
						RPD = 1.10	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	15.536	15.544	-0.008	4100772H	0.2000	0.2052	
2	15.463	15.473	-0.010	4266763H	0.2000	0.2023	
						RPD = 1.41	
21 Tokuthion							
1	16.519	16.529	-0.010	3981553H	0.2000	0.2102	
2	18.372	18.382	-0.010	4518954H	0.2000	0.2054	
						RPD = 2.32	
22 Ethyl Parathion							
1	16.766	16.775	-0.009	5073589H	0.2000	0.2068	
2	15.772	15.783	-0.011	5661346H	0.2000	0.2036	
						RPD = 1.54	
23 Stirophos							
1	17.739	17.745	-0.006	3557582H	0.2000	0.1963	
2	18.182	18.189	-0.007	3680602H	0.2000	0.1944	
						RPD = 0.99	
24 Bolstar							
1	18.757	18.762	-0.005	4351715H	0.2000	0.2068	
2	20.877	20.884	-0.007	4868562H	0.2000	0.2064	
						RPD = 0.21	
25 Fensulfothion							
1	21.722	21.727	-0.005	4453276H	0.2000	0.1787	
2	20.635	20.641	-0.006	4194747H	0.2000	0.1740	
						RPD = 2.65	
26 EPN							
1	22.694	22.698	-0.004	4562132H	0.2000	0.1931	
2	22.947	22.953	-0.006	5102442H	0.2000	0.1933	
						RPD = 0.12	
27 Famphur							
1	22.988	22.990	-0.002	5315262H	0.2000	0.1961	
2	21.572	21.580	-0.008	5228054H	0.2000	0.1978	
						RPD = 0.85	
28 Azinphos-methyl							
1	23.316	23.320	-0.004	4072598H	0.2000	0.1800	
2	24.138	24.144	-0.006	4558480H	0.2000	0.1803	
						RPD = 0.21	
29 Coumaphos							
1	25.949	25.955	-0.006	4801631H	0.2000	0.1984	
2	25.381	25.386	-0.005	5504900H	0.2000	0.1971	
						RPD = 0.62	
S 30 Demeton, Total							
1					0.2000	0.2009	
2					0.2000	0.1981	
						RPD = 1.40	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCOPPLEVEL1_00001 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:17:18 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321005.D				
Injection Date:	21-Mar-2018 08:43:17	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	IC			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

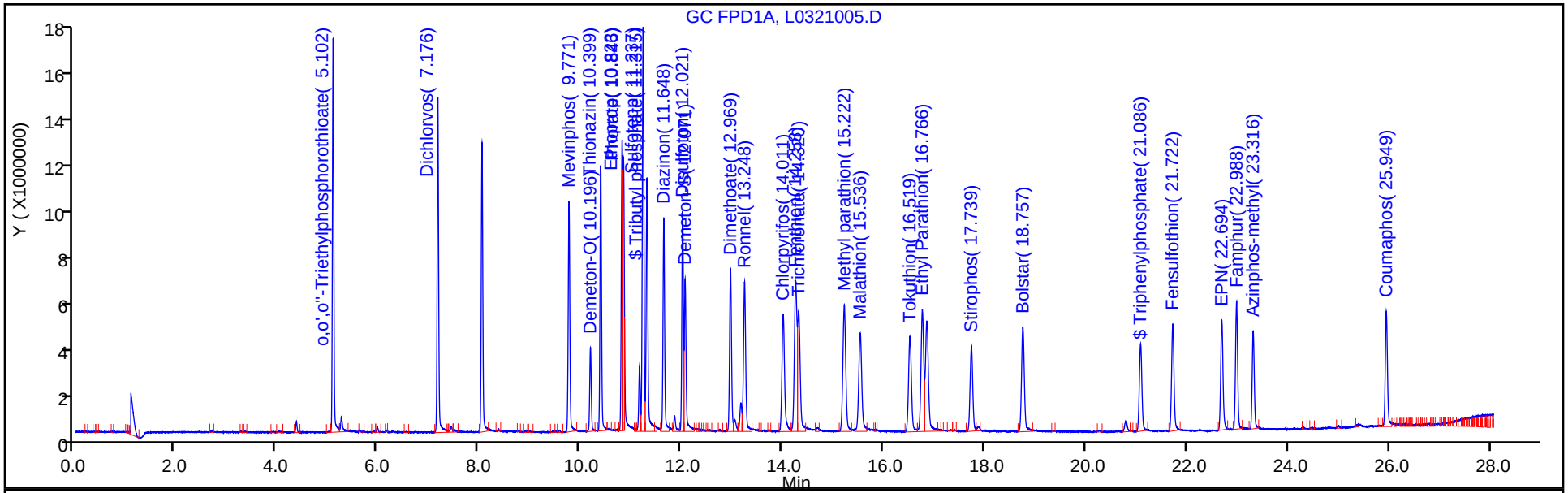

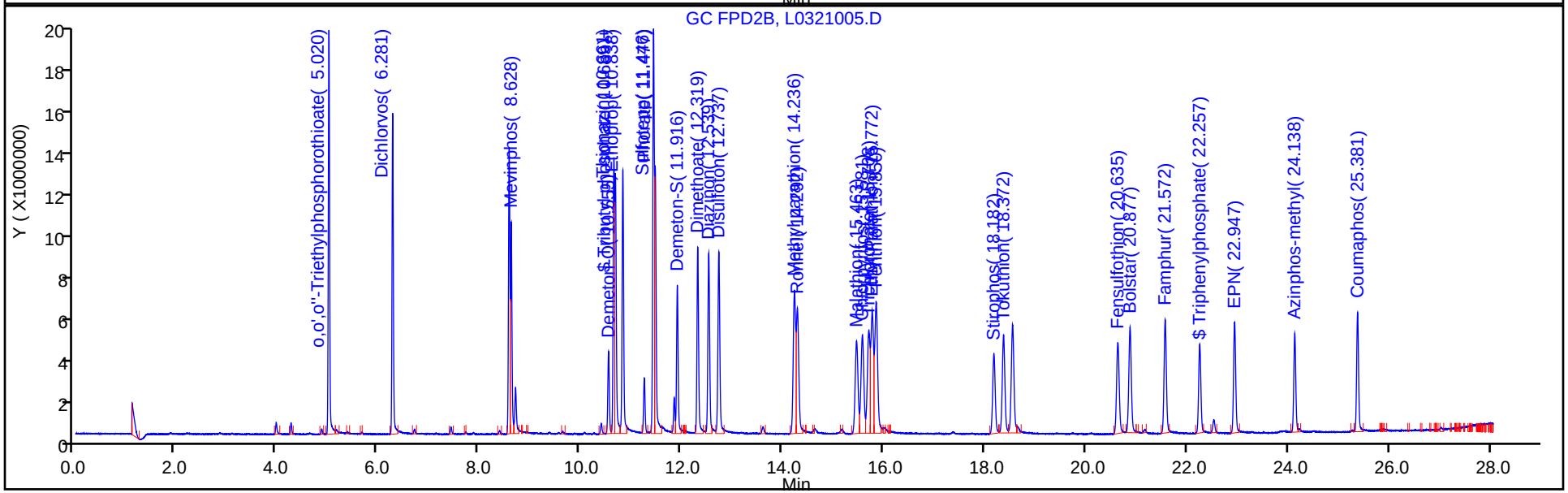

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321006.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 21-Mar-2018 09:16:22 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020992-002
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 22-Mar-2018 08:17:11 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK016

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.314	11.319	-0.005	22270981H	0.5000	0.4895	
2	10.689	10.694	-0.005	26120068H	0.5000	0.4868	
						RPD = 0.56	
$ 2 Triphenylphosphate							
1	21.087	21.092	-0.005	8170600H	0.5000	0.4842	
2	22.258	22.264	-0.006	9063082H	0.5000	0.4774	
						RPD = 1.43	
3 o,o',o''-Triethylphosphorothioate							
1	5.102	5.105	-0.003	38769489H	0.5000	0.4952	
2	5.019	5.023	-0.004	44375309H	0.5000	0.4976	
						RPD = 0.48	
4 Dichlorvos							
1	7.177	7.179	-0.002	33368262H	0.5000	0.4990	
2	6.280	6.284	-0.004	35622974H	0.5000	0.4995	
						RPD = 0.10	
5 Mevinphos							
1	9.771	9.774	-0.003	24896704H	0.5000	0.4968	
2	8.627	8.631	-0.004	25090545H	0.5000	0.5001	
						RPD = 0.66	
6 Demeton-O							
1	10.196	10.200	-0.004	8466330H	0.1700	0.1711	
2	10.554	10.559	-0.005	9268996H	0.1700	0.1704	
						RPD = 0.43	
7 Thionazin							
1	10.398	10.403	-0.005	26723861H	0.5000	0.5013	
2	10.660	10.665	-0.005	30585900H	0.5000	0.4981	
						RPD = 0.64	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.823	10.827	-0.004	29169549H	0.5000	0.5048	
2	10.837	10.842	-0.005	29977459H	0.5000	0.5058	
						RPD = 0.19	
9 Phorate							
1	10.848	10.854	-0.006	27626832H	0.5000	0.5120	
2	11.477	11.482	-0.005	29933904H	0.5000	0.5103	
						RPD = 0.33	
10 Sulfotepp							
1	11.237	11.241	-0.004	40770496H	0.5000	0.5026	
2	11.445	11.450	-0.005	45101838H	0.5000	0.4975	
						RPD = 1.03	
11 Diazinon							
1	11.647	11.652	-0.005	21755395H	0.5000	0.5130	
2	12.537	12.544	-0.007	20791242H	0.5000	0.5139	
						RPD = 0.18	
12 Disulfoton							
1	12.021	12.025	-0.004	22433878H	0.5000	0.5077	
2	12.738	12.744	-0.006	20570314H	0.5000	0.5071	
						RPD = 0.12	
13 Demeton-S							
1	12.071	12.075	-0.004	16126874H	0.3300	0.3310	
2	11.917	11.920	-0.003	17377131H	0.3300	0.3268	
						RPD = 1.27	
14 Dimethoate							
1	12.967	12.973	-0.006	18925086H	0.5000	0.4830	
2	12.319	12.325	-0.006	24049688H	0.5000	0.4822	
						RPD = 0.18	
15 Ronnel							
1	13.246	13.253	-0.007	15504653H	0.5000	0.5071	
2	14.292	14.300	-0.008	14238707H	0.5000	0.5054	
						RPD = 0.35	
16 Chlorpyrifos							
1	14.012	14.018	-0.006	12000228H	0.5000	0.5125	
2	15.581	15.589	-0.008	11109327H	0.5000	0.5045	
						RPD = 1.58	
17 Fenthion							
1	14.257	14.266	-0.009	15382547H	0.5000	0.5119	
2	15.851	15.860	-0.009	15067076H	0.5000	0.5068	
						RPD = 1.01	
18 Trichloronate							
1	14.318	14.325	-0.007	12261811H	0.5000	0.5137	
2	15.708	15.716	-0.008	11749166H	0.5000	0.5067	
						RPD = 1.36	
19 Methyl parathion							
1	15.221	15.230	-0.009	13025433H	0.5000	0.5001	
2	14.232	14.242	-0.010	16625756H	0.5000	0.5043	
						RPD = 0.84	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	15.537	15.544	-0.007	10002046H	0.5000	0.5004	
2	15.465	15.473	-0.008	10596335H	0.5000	0.5024	
						RPD = 0.40	
21 Tokuthion							
1	16.522	16.529	-0.007	9647215H	0.5000	0.5093	
2	18.371	18.382	-0.011	11254893H	0.5000	0.5115	
						RPD = 0.44	
22 Ethyl Parathion							
1	16.768	16.775	-0.007	12238540H	0.5000	0.4987	
2	15.772	15.783	-0.011	13858996H	0.5000	0.4984	
						RPD = 0.07	
23 Stirophos							
1	17.739	17.745	-0.006	9080877H	0.5000	0.5010	
2	18.181	18.189	-0.008	9369635H	0.5000	0.4948	
						RPD = 1.26	
24 Bolstar							
1	18.757	18.762	-0.005	10759629H	0.5000	0.5114	
2	20.880	20.884	-0.004	11908471H	0.5000	0.5049	
						RPD = 1.29	
25 Fensulfothion							
1	21.721	21.727	-0.006	12438180H	0.5000	0.4990	
2	20.637	20.641	-0.004	11924807H	0.5000	0.4946	
						RPD = 0.89	
26 EPN							
1	22.692	22.698	-0.006	11612545H	0.5000	0.4915	
2	22.949	22.953	-0.004	13192601H	0.5000	0.4998	
						RPD = 1.68	
27 Famphur							
1	22.985	22.990	-0.005	13407085H	0.5000	0.4946	
2	21.574	21.580	-0.006	13094029H	0.5000	0.4953	
						RPD = 0.14	
28 Azinphos-methyl							
1	23.317	23.320	-0.003	10972854H	0.5000	0.4849	
2	24.139	24.144	-0.005	12383628H	0.5000	0.4899	
						RPD = 1.04	
29 Coumaphos							
1	25.950	25.955	-0.005	12315776H	0.5000	0.5088	
2	25.382	25.386	-0.004	13866624H	0.5000	0.4966	
						RPD = 2.43	
S 30 Demeton, Total							
1					0.5000	0.5021	
2					0.5000	0.4972	
						RPD = 0.99	

Reagents:

GCOPPLEVEL2_00001 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:17:12 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321006.D				
Injection Date:	21-Mar-2018 09:16:22	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	IC			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

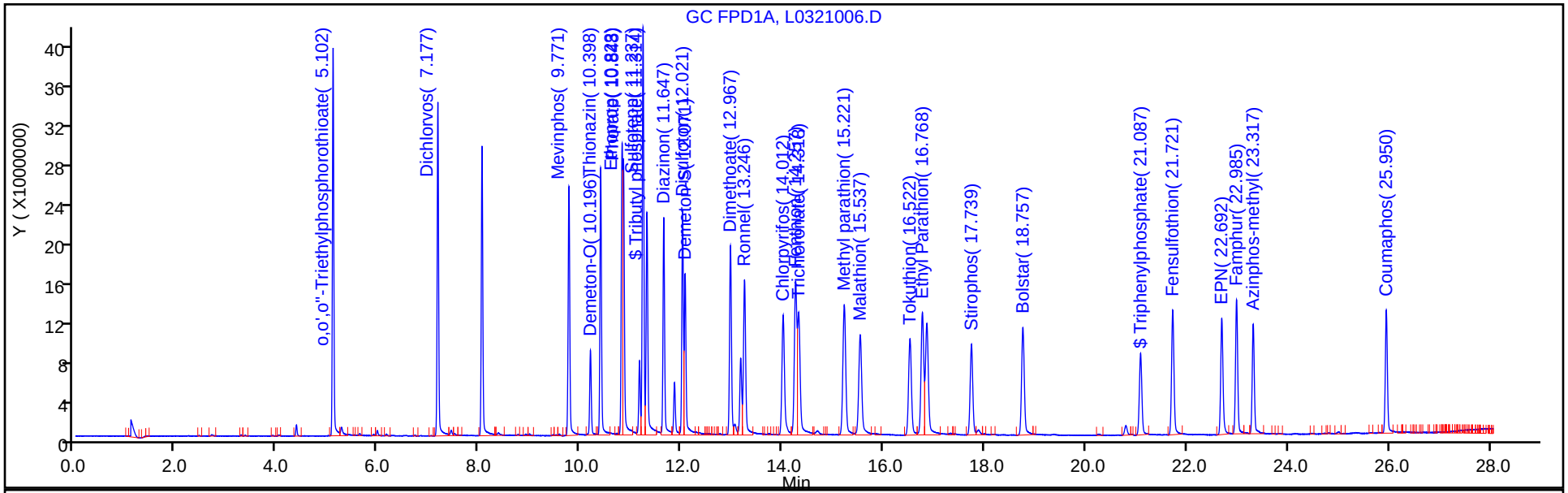

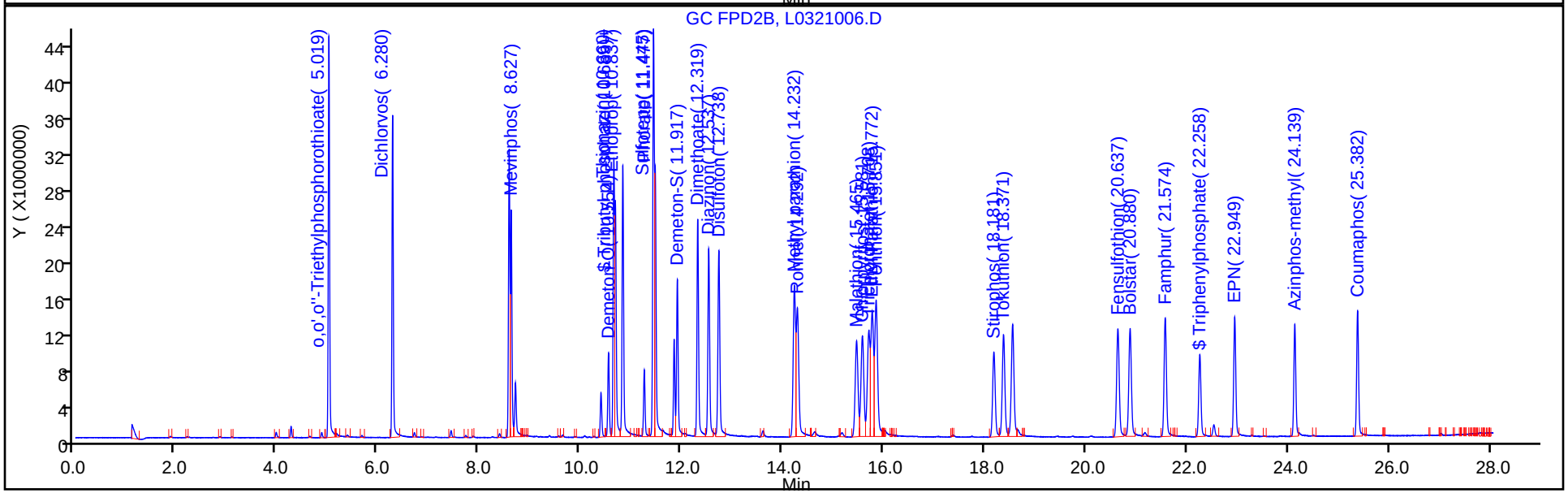

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321007.D
Lims ID: ICRT
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 21-Mar-2018 09:49:20 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020992-003
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 22-Mar-2018 08:17:03 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK016

First Level Reviewer: oravecj Date: 21-Mar-2018 13:18:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.316	11.319	-0.003	44628477H	1.00	0.9809	
2	10.688	10.694	-0.006	53244354H	1.00	0.99	
						RPD = 1.15	
$ 2 Triphenylphosphate							
1	21.086	21.092	-0.006	16435853H	1.00	0.9741	
2	22.258	22.264	-0.006	18690485H	1.00	0.9844	
						RPD = 1.06	
3 o,o',o''-Triethylphosphorothioate							
1	5.103	5.105	-0.002	78392076H	1.00	1.00	
2	5.020	5.023	-0.003	89037621H	1.00	1.00	
						RPD = 0.29	
4 Dichlorvos							
1	7.177	7.179	-0.002	66530767H	1.00	0.99	
2	6.281	6.284	-0.003	71165271H	1.00	1.00	
						RPD = 0.30	
5 Mevinphos							
1	9.772	9.774	-0.002	50765314H	1.00	1.01	
2	8.628	8.631	-0.003	50356238H	1.00	1.00	
						RPD = 0.92	
6 Demeton-O							
1	10.197	10.200	-0.003	16846722H	0.3400	0.3405	
2	10.556	10.559	-0.003	18561635H	0.3400	0.3412	
						RPD = 0.21	
7 Thionazin							
1	10.400	10.403	-0.003	55029146H	1.00	1.03	
2	10.662	10.665	-0.003	62506368H	1.00	1.02	
						RPD = 1.40	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.823	10.827	-0.004	57807649H	1.00	1.00	
2	10.838	10.842	-0.004	59668612H	1.00	1.01	
						RPD = 0.62	
9 Phorate							
1	10.850	10.854	-0.004	54530307H	1.00	1.01	
2	11.478	11.482	-0.004	58976576H	1.00	1.01	
						RPD = 0.52	
10 Sulfotepp							
1	11.239	11.241	-0.002	80925598H	1.00	1.00	
2	11.447	11.450	-0.003	91785159H	1.00	1.01	
						RPD = 1.46	
11 Diazinon							
1	11.648	11.652	-0.004	41559264H	1.00	0.9799	
2	12.540	12.544	-0.004	40332471H	1.00	1.00	
						RPD = 1.72	
12 Disulfoton							
1	12.022	12.025	-0.003	44201505H	1.00	1.00	
2	12.739	12.744	-0.005	40927593H	1.00	1.01	
						RPD = 0.86	
13 Demeton-S							
1	12.071	12.075	-0.004	32563386H	0.6600	0.6684	
2	11.916	11.920	-0.004	35555288H	0.6600	0.6688	
						RPD = 0.05	
14 Dimethoate							
1	12.969	12.973	-0.004	40176448H	1.00	1.03	
2	12.322	12.325	-0.003	51050029H	1.00	1.02	
						RPD = 0.19	
15 Ronnel							
1	13.247	13.253	-0.006	30207519H	1.00	0.9881	
2	14.295	14.300	-0.005	28040328H	1.00	1.00	
						RPD = 0.72	
16 Chlorpyrifos							
1	14.013	14.018	-0.005	23008160H	1.00	0.9826	
2	15.581	15.589	-0.008	21987751H	1.00	1.00	
						RPD = 1.60	
17 Fenthion							
1	14.261	14.266	-0.005	29703150H	1.00	0.9885	
2	15.855	15.860	-0.005	29579491H	1.00	0.99	
						RPD = 0.64	
18 Trichloronate							
1	14.317	14.325	-0.008	23644079H	1.00	0.99	
2	15.710	15.716	-0.006	23101196H	1.00	1.00	
						RPD = 0.58	
19 Methyl parathion							
1	15.223	15.230	-0.007	26051755H	1.00	1.00	
2	14.237	14.242	-0.005	32728046H	1.00	0.99	
						RPD = 0.75	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	15.535	15.544	-0.009	20037214H	1.00	1.00	
2	15.467	15.473	-0.006	21309960H	1.00	1.01	
						RPD = 0.78	
21 Tokuthion							
1	16.523	16.529	-0.006	18797273H	1.00	0.99	
2	18.374	18.382	-0.008	21974894H	1.00	1.00	
						RPD = 0.64	
22 Ethyl Parathion							
1	16.768	16.775	-0.007	24905189H	1.00	1.01	
2	15.775	15.783	-0.008	28030029H	1.00	1.01	
						RPD = 0.68	
23 Stirophos							
1	17.738	17.745	-0.007	18087189H	1.00	1.00	
2	18.184	18.189	-0.005	18917793H	1.00	1.00	
						RPD = 0.10	
24 Bolstar							
1	18.756	18.762	-0.006	20927762H	1.00	0.99	
2	20.877	20.884	-0.007	23670308H	1.00	1.00	
						RPD = 0.88	
25 Fensulfothion							
1	21.721	21.727	-0.006	24829487H	1.00	1.00	
2	20.637	20.641	-0.004	24533807H	1.00	1.02	
						RPD = 2.13	
26 EPN							
1	22.693	22.698	-0.005	23864536H	1.00	1.01	
2	22.948	22.953	-0.005	26415952H	1.00	1.00	
						RPD = 0.92	
27 Famphur							
1	22.986	22.990	-0.004	27119203H	1.00	1.00	
2	21.574	21.580	-0.006	26425021H	1.00	1.00	
						RPD = 0.09	
28 Azinphos-methyl							
1	23.315	23.320	-0.005	22710262H	1.00	1.00	
2	24.138	24.144	-0.006	25406256H	1.00	1.01	
						RPD = 0.16	
29 Coumaphos							
1	25.952	25.955	-0.003	24072784H	1.00	0.99	
2	25.381	25.386	-0.005	27643591H	1.00	0.9899	
						RPD = 0.46	
S 30 Demeton, Total							
1					1.00	1.01	
2					1.00	1.01	
						RPD = 0.10	

Reagents:

GCOPPLEVEL3_00001 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:17:03 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321007.D				
Injection Date:	21-Mar-2018 09:49:20	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	ICRT			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

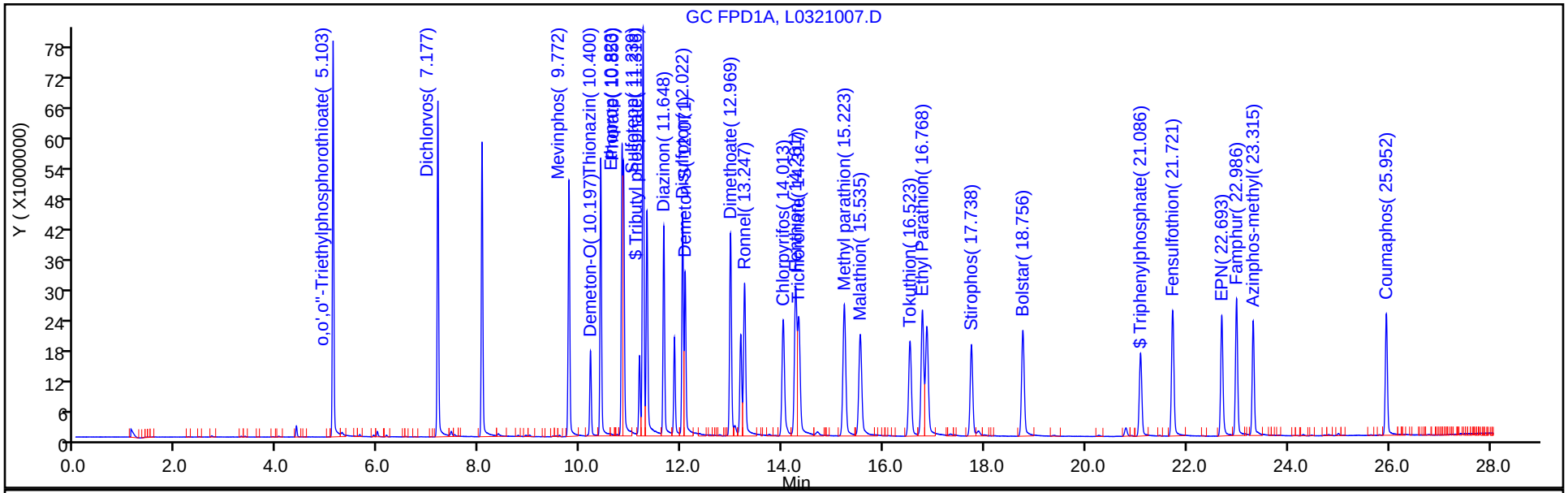

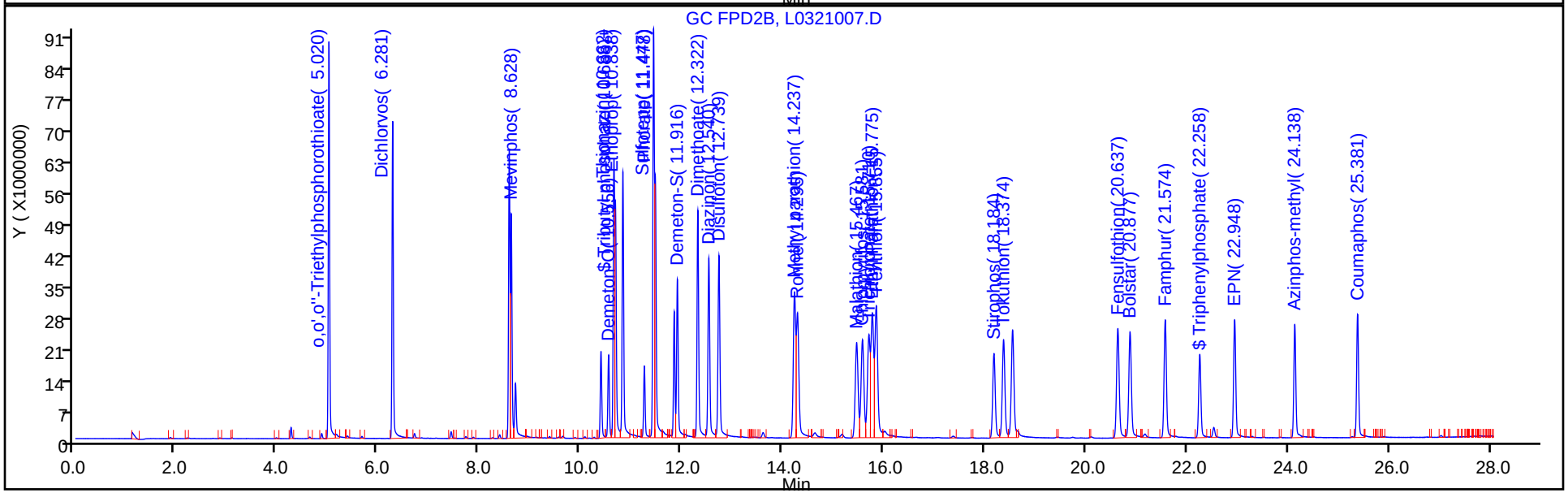

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321008.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 21-Mar-2018 10:22:25 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020992-004
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 22-Mar-2018 08:16:57 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK016

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.319	11.319	0.000	89806415H	2.00	1.97	
2	10.694	10.694	0.000	107314054H	2.00	2.00	
						RPD = 1.30	
$ 2 Triphenylphosphate							
1	21.092	21.092	0.000	34131333H	2.00	2.02	
2	22.264	22.264	0.000	38446199H	2.00	2.02	
						RPD = 0.11	
3 o,o',o''-Triethylphosphorothioate							
1	5.105	5.105	0.000	152496922H	2.00	1.95	
2	5.023	5.023	0.000	174142902H	2.00	1.95	
						RPD = 0.24	
4 Dichlorvos							
1	7.179	7.179	0.000	131396065H	2.00	1.96	
2	6.284	6.284	0.000	140335390H	2.00	1.97	
						RPD = 0.15	
5 Mevinphos							
1	9.774	9.774	0.000	100996102H	2.00	2.02	
2	8.631	8.631	0.000	101761653H	2.00	2.03	
						RPD = 0.64	
6 Demeton-O							
1	10.200	10.200	0.000	33266235H	0.6800	0.6723	
2	10.559	10.559	0.000	36952900H	0.6800	0.6792	
						RPD = 1.02	
7 Thionazin							
1	10.403	10.403	0.000	103707780H	2.00	1.95	
2	10.665	10.665	0.000	120499095H	2.00	1.96	
						RPD = 0.87	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.827	10.827	0.000	113720487H	2.00	1.97	
2	10.842	10.842	0.000	117588194H	2.00	1.98	
						RPD = 0.80	
9 Phorate							
1	10.854	10.854	0.000	106404680H	2.00	1.97	
2	11.482	11.482	0.000	115943148H	2.00	1.98	
						RPD = 0.23	
10 Sulfotepp							
1	11.241	11.241	0.000	161529094H	2.00	1.99	
2	11.450	11.450	0.000	179536795H	2.00	1.98	
						RPD = 0.56	
11 Diazinon							
1	11.652	11.652	0.000	84068890H	2.00	1.98	
2	12.544	12.544	0.000	80835035H	2.00	2.00	
						RPD = 0.79	
12 Disulfoton							
1	12.025	12.025	0.000	87482331H	2.00	1.98	
2	12.744	12.744	0.000	80750209H	2.00	1.99	
						RPD = 0.55	
13 Demeton-S							
1	12.075	12.075	0.000	65503323H	1.32	1.34	
2	11.920	11.920	0.000	71856761H	1.32	1.35	
						RPD = 0.52	
14 Dimethoate							
1	12.973	12.973	0.000	84047975H	2.00	2.15	
2	12.325	12.325	0.000	107775994H	2.00	2.16	
						RPD = 0.73	
15 Ronnel							
1	13.253	13.253	0.000	61477543H	2.00	2.01	
2	14.300	14.300	0.000	56396898H	2.00	2.00	
						RPD = 0.46	
16 Chlorpyrifos							
1	14.018	14.018	0.000	46628269H	2.00	1.99	
2	15.589	15.589	0.000	43958803H	2.00	2.00	
						RPD = 0.24	
17 Fenthion							
1	14.266	14.266	0.000	59774429H	2.00	1.99	
2	15.860	15.860	0.000	59697504H	2.00	2.01	
						RPD = 0.93	
18 Trichloronate							
1	14.325	14.325	0.000	46960029H	2.00	1.97	
2	15.716	15.716	0.000	46586048H	2.00	2.01	
						RPD = 2.11	
19 Methyl parathion							
1	15.230	15.230	0.000	52184695H	2.00	2.00	
2	14.242	14.242	0.000	66574547H	2.00	2.02	
						RPD = 0.79	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	15.544	15.544	0.000	40119020H	2.00	2.01	
2	15.473	15.473	0.000	42193018H	2.00	2.00	
						RPD = 0.33	
21 Tokuthion							
1	16.529	16.529	0.000	37584686H	2.00	1.98	
2	18.382	18.382	0.000	43583419H	2.00	1.98	
						RPD = 0.17	
22 Ethyl Parathion							
1	16.775	16.775	0.000	48428796H	2.00	1.97	
2	15.783	15.783	0.000	55697366H	2.00	2.00	
						RPD = 1.48	
23 Stirophos							
1	17.745	17.745	0.000	36992711H	2.00	2.04	
2	18.189	18.189	0.000	38780752H	2.00	2.05	
						RPD = 0.33	
24 Bolstar							
1	18.762	18.762	0.000	41900561H	2.00	1.99	
2	20.884	20.884	0.000	47594801H	2.00	2.02	
						RPD = 1.31	
25 Fensulfothion							
1	21.727	21.727	0.000	53347257H	2.00	2.14	
2	20.641	20.641	0.000	51861570H	2.00	2.15	
						RPD = 0.50	
26 EPN							
1	22.698	22.698	0.000	47977030H	2.00	2.03	
2	22.953	22.953	0.000	53792403H	2.00	2.04	
						RPD = 0.37	
27 Famphur							
1	22.990	22.990	0.000	55041686H	2.00	2.03	
2	21.580	21.580	0.000	53774512H	2.00	2.03	
						RPD = 0.17	
28 Azinphos-methyl							
1	23.320	23.320	0.000	48460752H	2.00	2.14	
2	24.144	24.144	0.000	53228184H	2.00	2.11	
						RPD = 1.67	
29 Coumaphos							
1	25.955	25.955	0.000	48377501H	2.00	2.00	
2	25.386	25.386	0.000	57270682H	2.00	2.05	
						RPD = 2.59	
S 30 Demeton, Total							
1					2.00	2.02	
2					2.00	2.03	
						RPD = 0.69	

Reagents:

GCOPPLEVEL4_00001 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:16:58 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321008.D				
Injection Date:	21-Mar-2018 10:22:25	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

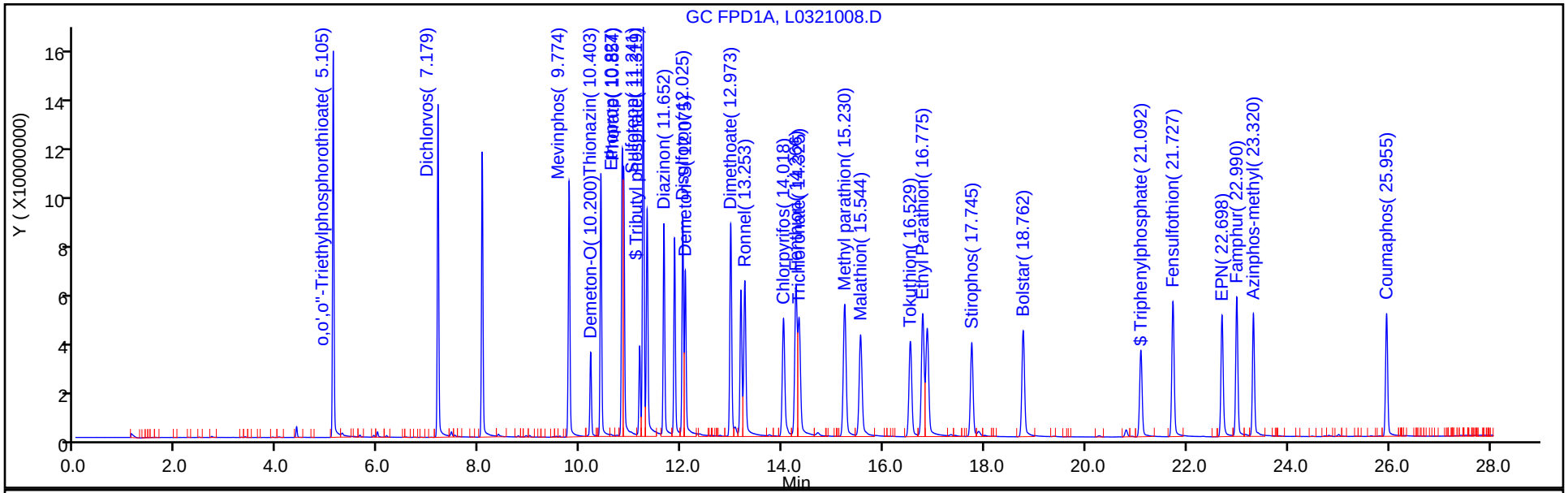

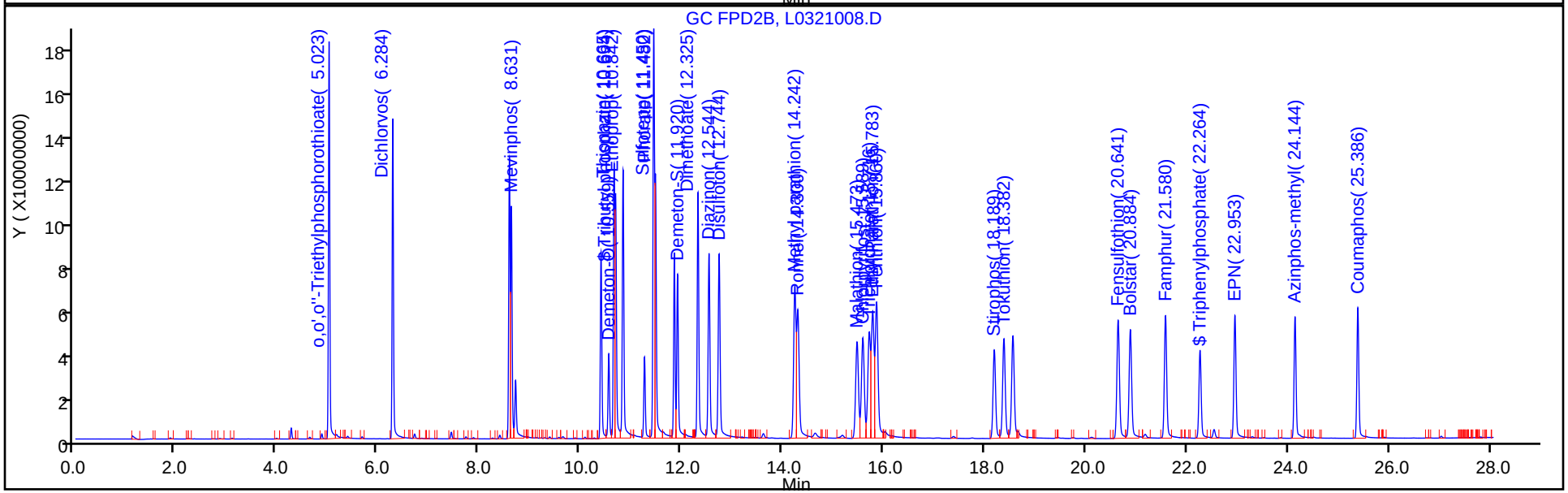

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 21-Mar-2018 10:55:20 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020992-005
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 22-Mar-2018 08:16:53 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK016

First Level Reviewer: oravecj Date: 22-Mar-2018 08:16:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.317	11.319	-0.002	162855641H	4.00	3.58	
2	10.692	10.694	-0.002	196555986H	4.00	3.66	
						RPD = 2.30	
$ 2 Triphenylphosphate							
1	21.090	21.092	-0.002	65235370H	4.00	3.87	
2	22.263	22.264	-0.001	73611754H	4.00	3.88	
						RPD = 0.29	
3 o,o',o''-Triethylphosphorothioate							
1	5.105	5.105	0.000	309535776H	4.00	3.95	
2	5.023	5.023	0.000	351634599H	4.00	3.94	
						RPD = 0.28	
4 Dichlorvos							
1	7.178	7.179	-0.001	262569972H	4.00	3.93	
2	6.283	6.284	-0.001	280137578H	4.00	3.93	
						RPD = 0.04	
5 Mevinphos							
1	9.774	9.774	0.000	206215964H	4.00	4.11	
2	8.632	8.631	0.001	202703197H	4.00	4.04	
						RPD = 1.83	
6 Demeton-O							
1	10.200	10.200	0.000	64989426H	1.36	1.31	
2	10.559	10.559	0.000	71845219H	1.36	1.32	
						RPD = 0.54	
7 Thionazin							
1	10.402	10.403	-0.001	204181067H	4.00	3.83	
2	10.665	10.665	0.000	238976604H	4.00	3.89	
						RPD = 1.60	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.824	10.827	-0.003	221520698H	4.00	3.83	
2	10.842	10.842	0.000	229044270H	4.00	3.86	
						RPD = 0.79	
9 Phorate							
1	10.853	10.854	-0.001	201102975H	4.00	3.73	
2	11.482	11.482	0.000	219243901H	4.00	3.74	
						RPD = 0.28	
10 Sulfotepp							
1	11.242	11.241	0.001	313038831H	4.00	3.86	
2	11.449	11.450	-0.001	352900651H	4.00	3.89	
						RPD = 0.86	
11 Diazinon							
1	11.651	11.652	-0.001	161860599H	4.00	3.82	
2	12.543	12.544	-0.001	153485439H	4.00	3.79	
						RPD = 0.60	
12 Disulfoton							
1	12.024	12.025	-0.001	169343509H	4.00	3.83	
2	12.743	12.744	-0.001	153901646H	4.00	3.79	
						RPD = 1.01	
13 Demeton-S							
1	12.073	12.075	-0.002	125785604H	2.64	2.58	
2	11.920	11.920	0.000	140256529H	2.64	2.64	
						RPD = 2.15	
14 Dimethoate							
1	12.973	12.973	0.000	167859727H	4.00	4.28	
2	12.325	12.325	0.000	213449833H	4.00	4.28	
						RPD = 0.11	
15 Ronnel							
1	13.250	13.253	-0.003	119314761H	4.00	3.90	
2	14.302	14.300	0.002	109051205H	4.00	3.87	
						RPD = 0.83	
16 Chlorpyrifos							
1	14.017	14.018	-0.001	89481517H	4.00	3.82	
2	15.588	15.589	-0.001	84868441H	4.00	3.85	
						RPD = 0.84	
17 Fenthion							
1	14.265	14.266	-0.001	114343499H	4.00	3.81	
2	15.860	15.860	0.000	114584327H	4.00	3.85	
						RPD = 1.27	
18 Trichloronate							
1	14.325	14.325	0.000	90258807H	4.00	3.78	
2	15.717	15.716	0.001	89153099H	4.00	3.84	
						RPD = 1.67	
19 Methyl parathion							
1	15.225	15.230	-0.005	102538632H	4.00	3.94	
2	14.242	14.242	0.000	130045547H	4.00	3.94	
						RPD = 0.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	15.542	15.544	-0.002	77333552H	4.00	3.87	
2	15.474	15.473	0.001	82093133H	4.00	3.89	
						RPD = 0.60	
21 Tokuthion							
1	16.528	16.529	-0.001	71665483H	4.00	3.78	
2	18.380	18.382	-0.002	84559083H	4.00	3.84	
						RPD = 1.57	
22 Ethyl Parathion							
1	16.772	16.775	-0.003	94927355H	4.00	3.87	
2	15.782	15.783	-0.001	108517268H	4.00	3.90	
						RPD = 0.88	
23 Stirophos							
1	17.742	17.745	-0.003	72358909H	4.00	3.99	
2	18.192	18.189	0.003	76950974H	4.00	4.06	
						RPD = 1.76	
24 Bolstar							
1	18.762	18.762	0.000	80167167H	4.00	3.81	
2	20.882	20.884	-0.002	89235012H	4.00	3.78	
						RPD = 0.71	
25 Fensulfothion							
1	21.726	21.727	-0.001	103899415H	4.00	4.17	
2	20.642	20.641	0.001	101017770H	4.00	4.19	
						RPD = 0.51	
26 EPN							
1	22.698	22.698	0.000	97023283H	4.00	4.11	
2	22.953	22.953	0.000	107087359H	4.00	4.06	
						RPD = 1.21	
27 Famphur							
1	22.990	22.990	0.000	109998984H	4.00	4.06	
2	21.580	21.580	0.000	106172097H	4.00	4.02	
						RPD = 1.04	
28 Azinphos-methyl							
1	23.319	23.320	-0.001	95630844H	4.00	4.23	
2	24.142	24.144	-0.002	107222645H	4.00	4.24	
						RPD = 0.39	
29 Coumaphos							
1	25.954	25.955	-0.001	96525697H	4.00	3.99	
2	25.386	25.386	0.000	112349977H	4.00	4.02	
						RPD = 0.89	
S 30 Demeton, Total							
1					4.00	3.90	
2					4.00	3.96	
						RPD = 1.61	

Reagents:

GCOPPLEVEL5_00001 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:16:54 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D				
Injection Date:	21-Mar-2018 10:55:20	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	IC			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

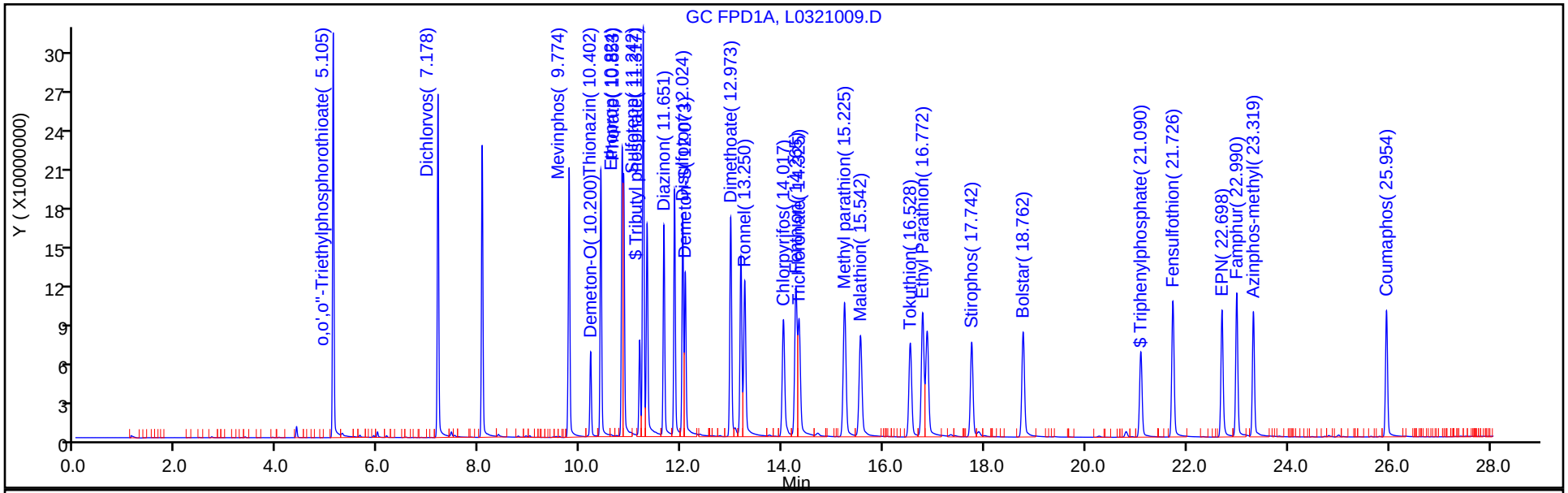

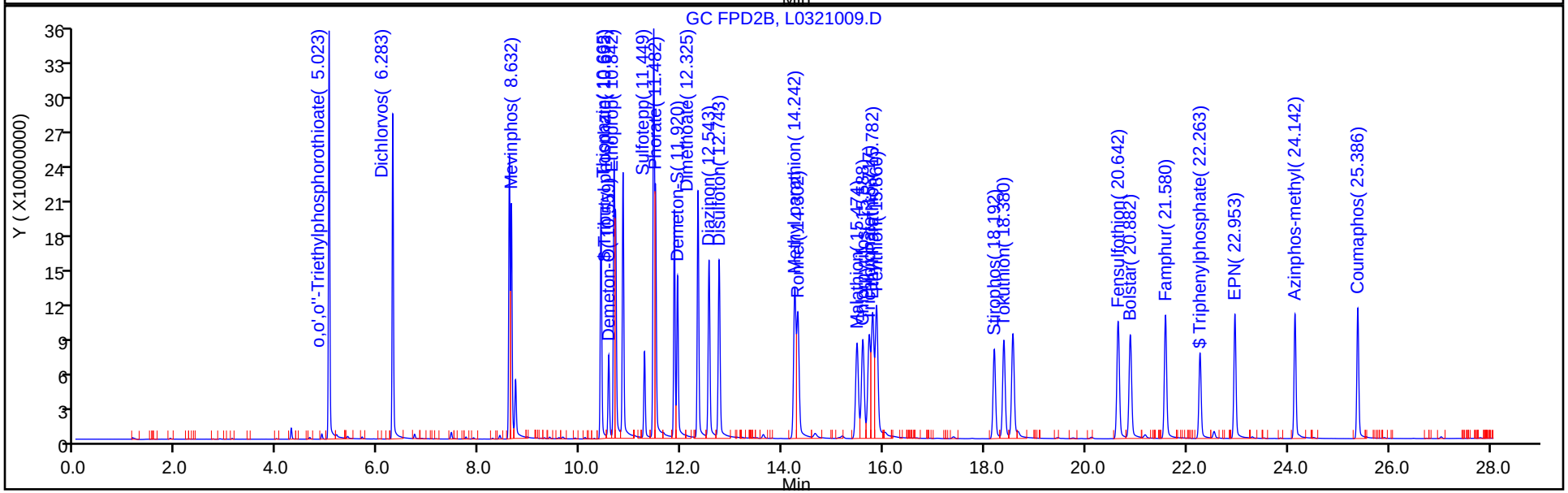

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1 Analy Batch No.: 240093

SDG No.:

Instrument ID: CHGC5 GC Column: RTX-OPP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 08:43 Calibration End Date: 03/21/2018 10:55 Calibration ID: 37535

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240093/1	L0321005.D
Level 2	IC 180-240093/2	L0321006.D
Level 3	ICRT 180-240093/3	L0321007.D
Level 4	IC 180-240093/4	L0321008.D
Level 5	IC 180-240093/5	L0321009.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
O,O,O-Triethyl phosphorothioate	5.020	5.019	5.020	5.023	5.023						4.993 - 5.053	5.021
Dichlorvos	6.281	6.280	6.281	6.284	6.283						6.254 - 6.314	6.282
Mevinphos	8.628	8.627	8.628	8.631	8.632						8.601 - 8.661	8.629
Demeton-O	10.555	10.554	10.556	10.559	10.559						10.529 - 10.589	10.557
Thionazin	10.661	10.660	10.662	10.665	10.665						10.635 - 10.695	10.663
Mocap	10.838	10.837	10.838	10.842	10.842						10.812 - 10.872	10.839
Sulfotepp	11.446	11.445	11.447	11.450	11.449						11.420 - 11.480	11.447
Phorate	11.477	11.477	11.478	11.482	11.482						11.452 - 11.512	11.479
Demeton-S	11.916	11.917	11.916	11.920	11.920						11.890 - 11.950	11.918
Dimethoate	12.319	12.319	12.322	12.325	12.325						12.295 - 12.355	12.322
Diazinon	12.539	12.537	12.540	12.544	12.543						12.514 - 12.574	12.541
Disulfoton	12.737	12.738	12.739	12.744	12.743						12.714 - 12.774	12.740
Methyl parathion	14.236	14.232	14.237	14.242	14.242						14.212 - 14.272	14.238
Ronnel	14.292	14.292	14.295	14.300	14.302						14.270 - 14.330	14.296
Malathion	15.463	15.465	15.467	15.473	15.474						15.443 - 15.503	15.468
Chlorpyrifos	15.581	15.581	15.581	15.589	15.588						15.559 - 15.619	15.584
Trichloronate	15.708	15.708	15.710	15.716	15.717						15.686 - 15.746	15.712
Parathion	15.772	15.772	15.775	15.783	15.782						15.753 - 15.813	15.777
Fenthion	15.850	15.851	15.855	15.860	15.860						15.830 - 15.890	15.855
Stirophos	18.182	18.181	18.184	18.189	18.192						18.159 - 18.219	18.186
Tokuthion	18.372	18.371	18.374	18.382	18.380						18.352 - 18.412	18.376
Fensulfothion	20.635	20.637	20.637	20.641	20.642						20.611 - 20.671	20.638
Bolstar	20.877	20.880	20.877	20.884	20.882						20.854 - 20.914	20.880
Famphur	21.572	21.574	21.574	21.580	21.580						21.550 - 21.610	21.576
EPN	22.947	22.949	22.948	22.953	22.953						22.923 - 22.983	22.950
Azinphos-methyl	24.138	24.139	24.138	24.144	24.142						24.114 - 24.174	24.140
Coumaphos	25.381	25.382	25.381	25.386	25.386						25.356 - 25.416	25.383
Tributyl phosphate	10.689	10.689	10.688	10.694	10.692						10.664 - 10.724	10.690
Triphenylphosphate	22.257	22.258	22.258	22.264	22.263						22.234 - 22.294	22.260

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1 Analy Batch No.: 240093

SDG No.:

Instrument ID: CHGC5 GC Column: RTX-OPP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 08:43 Calibration End Date: 03/21/2018 10:55 Calibration ID: 37535

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240093/1	L0321005.D
Level 2	IC 180-240093/2	L0321006.D
Level 3	ICRT 180-240093/3	L0321007.D
Level 4	IC 180-240093/4	L0321008.D
Level 5	IC 180-240093/5	L0321009.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
O,O,O-Triethyl phosphorothioate	93149810 87908650	88750618	89037621	87071451	Ave		89183630.0				2.6		20.0			
Dichlorvos	73967900 70034395	71245948	71165271	70167695	Ave		71316241.7				2.2		20.0			
Mevinphos	48764955 50675799	50181090	50356238	50880827	Ave		50171781.8				1.7		20.0			
Demeton-O	55751912 52827367	54523506	54593044	54342500	Ave		54407665.7				1.9		20.0			
Thionazin	63376200 59744151	61171800	62506368	60249548	Ave		61409613.3				2.5		20.0			
Mocap	60682310 57261068	59954918	59668612	58794097	Ave		59272200.9				2.2		20.0			
Sulfotepp	93323855 88225163	90203676	91785159	89768398	Ave		90661250.1				2.2		20.0			
Phorate	61680190 54810975	59867808	58976576	57971574	Ave		58661424.7				4.3		20.0			
Demeton-S	51734848 53127473	52657973	53871648	54436940	Ave		53165776.6				2.0		20.0			
Dimethoate	42995230 53362458	48099376	51050029	53887997	Ave		49879018.1				9.0		20.0			
Diazinon	41586215 38371360	41582484	40332471	40417518	Ave		40458009.5				3.2		20.0			
Disulfoton	41908180 38475412	41140628	40927593	40375105	Ave		40565383.4				3.2		20.0			
Methyl parathion	33051795 32511387	33251512	32728046	33287274	Ave		32966002.7				1.0		20.0			
Ronnel	28894980 27262801	28477414	28040328	28198449	Ave		28174794.5				2.1		20.0			
Malathion	21333815 20523283	21192670	21309960	21096509	Ave		21091247.5				1.6		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1 Analy Batch No.: 240093

SDG No.:

Instrument ID: CHGC5 GC Column: RTX-OPP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 08:43 Calibration End Date: 03/21/2018 10:55 Calibration ID: 37535

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Chlorpyrifos	22706385 21217110	22218654	21987751	21979402	Ave		22021860.4				2.4		20.0			
Trichloronate	23755800 22288275	23498332	23101196	23293024	Ave		23187325.4				2.4		20.0			
Parathion	28306730 27129317	27717992	28030029	27848683	Ave		27806550.2				1.6		20.0			
Fenthion	30450550 28646082	30134152	29579491	29848752	Ave		29731805.4				2.3		20.0			
Stirophos	18403010 19237744	18739270	18917793	19390376	Ave		18937638.5				2.1		20.0			
Tokuthion	22594770 21139771	22509786	21974894	21791710	Ave		22002186.1				2.7		20.0			
Fensulfothion	20973735 25254443	23849614	24533807	25930785	Ave		24108476.7				8.0		20.0			
Bolstar	24342810 22308753	23816942	23670308	23797401	Ave		23587242.7				3.2		20.0			
Famphur	26140270 26543024	26188058	26425021	26887256	Ave		26436725.9				1.1		20.0			
EPN	25512210 26771840	26385202	26415952	26896202	Ave		26396281.1				2.1		20.0			
Azinphos-methyl	22792400 26805661	24767256	25406256	26614092	Ave		25277133.1				6.4		20.0			
Coumaphos	27524500 28087494	27733248	27643591	28635341	Ave		27924834.9				1.6		20.0			
Tributyl phosphate	60028215 49138997	52240136	53244354	53657027	Ave		53661745.7				7.4		20.0			
Triphenylphosphate	20487760 18402939	18126164	18690485	19223100	Ave		18986089.4				4.9		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1 Analy Batch No.: 240093

SDG No.:

Instrument ID: CHGC5 GC Column: RTX-OPP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 08:43 Calibration End Date: 03/21/2018 10:55 Calibration ID: 37535

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240093/1	L0321005.D
Level 2	IC 180-240093/2	L0321006.D
Level 3	ICRT 180-240093/3	L0321007.D
Level 4	IC 180-240093/4	L0321008.D
Level 5	IC 180-240093/5	L0321009.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
O,O,O-Triethyl phosphorothioate	Ave	18629962	44375309	89037621	174142902	351634599	0.200	0.500	1.00	2.00	4.00
Dichlorvos	Ave	14793580	35622974	71165271	140335390	280137578	0.200	0.500	1.00	2.00	4.00
Mevinphos	Ave	9752991	25090545	50356238	101761653	202703197	0.200	0.500	1.00	2.00	4.00
Demeton-O	Ave	3791130	9268996	18561635	36952900	71845219	0.0680	0.170	0.340	0.680	1.36
Thionazin	Ave	12675240	30585900	62506368	120499095	238976604	0.200	0.500	1.00	2.00	4.00
Mocap	Ave	12136462	29977459	59668612	117588194	229044270	0.200	0.500	1.00	2.00	4.00
Sulfotepp	Ave	18664771	45101838	91785159	179536795	352900651	0.200	0.500	1.00	2.00	4.00
Phorate	Ave	12336038	29933904	58976576	115943148	219243901	0.200	0.500	1.00	2.00	4.00
Demeton-S	Ave	6829000	17377131	35555288	71856761	140256529	0.132	0.330	0.660	1.32	2.64
Dimethoate	Ave	8599046	24049688	51050029	107775994	213449833	0.200	0.500	1.00	2.00	4.00
Diazinon	Ave	8317243	20791242	40332471	80835035	153485439	0.200	0.500	1.00	2.00	4.00
Disulfoton	Ave	8381636	20570314	40927593	80750209	153901646	0.200	0.500	1.00	2.00	4.00
Methyl parathion	Ave	6610359	16625756	32728046	66574547	130045547	0.200	0.500	1.00	2.00	4.00
Ronnel	Ave	5778996	14238707	28040328	56396898	109051205	0.200	0.500	1.00	2.00	4.00
Malathion	Ave	4266763	10596335	21309960	42193018	82093133	0.200	0.500	1.00	2.00	4.00
Chlorpyrifos	Ave	4541277	11109327	21987751	43958803	84868441	0.200	0.500	1.00	2.00	4.00
Trichloronate	Ave	4751160	11749166	23101196	46586048	89153099	0.200	0.500	1.00	2.00	4.00
Parathion	Ave	5661346	13858996	28030029	55697366	108517268	0.200	0.500	1.00	2.00	4.00
Fenthion	Ave	6090110	15067076	29579491	59697504	114584327	0.200	0.500	1.00	2.00	4.00
Stirophos	Ave	3680602	9369635	18917793	38780752	76950974	0.200	0.500	1.00	2.00	4.00
Tokuthion	Ave	4518954	11254893	21974894	43583419	84559083	0.200	0.500	1.00	2.00	4.00
Fensulfothion	Ave	4194747	11924807	24533807	51861570	101017770	0.200	0.500	1.00	2.00	4.00
Bolstar	Ave	4868562	11908471	23670308	47594801	89235012	0.200	0.500	1.00	2.00	4.00
Famphur	Ave	5228054	13094029	26425021	53774512	106172097	0.200	0.500	1.00	2.00	4.00
EPN	Ave	5102442	13192601	26415952	53792403	107087359	0.200	0.500	1.00	2.00	4.00
Azinphos-methyl	Ave	4558480	12383628	25406256	53228184	107222645	0.200	0.500	1.00	2.00	4.00
Coumaphos	Ave	5504900	13866624	27643591	57270682	112349977	0.200	0.500	1.00	2.00	4.00
Tributyl phosphate	Ave	12005643	26120068	53244354	107314054	196555986	0.200	0.500	1.00	2.00	4.00
Triphenylphosphate	Ave	4097552	9063082	18690485	38446199	73611754	0.200	0.500	1.00	2.00	4.00

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321005.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 21-Mar-2018 08:43:17 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020992-001
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 22-Mar-2018 08:17:17 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK016

First Level Reviewer: oravecj Date: 22-Mar-2018 08:14:23

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.315	11.319	-0.004	10539426H	0.2000	0.2317	
2	10.689	10.694	-0.005	12005643H	0.2000	0.2237	
						RPD = 3.48	
$ 2 Triphenylphosphate							
1	21.086	21.092	-0.006	3643392H	0.2000	0.2159	
2	22.257	22.264	-0.007	4097552H	0.2000	0.2158	
						RPD = 0.05	
3 o,o',o''-Triethylphosphorothioate							
1	5.102	5.105	-0.003	16376709H	0.2000	0.2092	
2	5.020	5.023	-0.003	18629962H	0.2000	0.2089	
						RPD = 0.14	
4 Dichlorvos							
1	7.176	7.179	-0.003	13950293H	0.2000	0.2086	
2	6.281	6.284	-0.003	14793580H	0.2000	0.2074	
						RPD = 0.57	
5 Mevinphos							
1	9.771	9.774	-0.003	9591800H	0.2000	0.1914	
2	8.628	8.631	-0.003	9752991H	0.2000	0.1944	
						RPD = 1.55	
6 Demeton-O							
1	10.196	10.200	-0.004	3492326H	0.0680	0.0706	
2	10.555	10.559	-0.004	3791130H	0.0680	0.0697	
						RPD = 1.28	
7 Thionazin							
1	10.399	10.403	-0.004	11038964H	0.2000	0.2071	
2	10.661	10.665	-0.004	12675240H	0.2000	0.2064	
						RPD = 0.31	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							M
1	10.823	10.827	-0.004	12105263H	0.2000	0.2095	
2	10.838	10.842	-0.004	12136462H	0.2000	0.2048	
						RPD = 2.29	
9 Phorate							M
1	10.846	10.854	-0.008	11306958H	0.2000	0.2095	
2	11.477	11.482	-0.005	12336038H	0.2000	0.2103	
						RPD = 0.36	
10 Sulfotepp							
1	11.237	11.241	-0.004	16814987H	0.2000	0.2073	
2	11.446	11.450	-0.004	18664771H	0.2000	0.2059	
						RPD = 0.69	
11 Diazinon							
1	11.648	11.652	-0.004	8896516H	0.2000	0.2098	
2	12.539	12.544	-0.005	8317243H	0.2000	0.2056	
						RPD = 2.02	
12 Disulfoton							
1	12.021	12.025	-0.004	9158562H	0.2000	0.2073	
2	12.737	12.744	-0.007	8381636H	0.2000	0.2066	
						RPD = 0.31	
13 Demeton-S							
1	12.071	12.075	-0.004	6349522H	0.1320	0.1303	
2	11.916	11.920	-0.004	6829000H	0.1320	0.1284	
						RPD = 1.46	
14 Dimethoate							
1	12.969	12.973	-0.004	6778065H	0.2000	0.1730	
2	12.319	12.325	-0.006	8599046H	0.2000	0.1724	
						RPD = 0.34	
15 Ronnel							
1	13.248	13.253	-0.005	6215748H	0.2000	0.2033	
2	14.292	14.300	-0.008	5778996H	0.2000	0.2051	
						RPD = 0.88	
16 Chlorpyrifos							
1	14.011	14.018	-0.007	4875871H	0.2000	0.2082	
2	15.581	15.589	-0.008	4541277H	0.2000	0.2062	
						RPD = 0.98	
17 Fenthion							
1	14.258	14.266	-0.008	6260950H	0.2000	0.2084	
2	15.850	15.860	-0.010	6090110H	0.2000	0.2048	
						RPD = 1.70	
18 Trichloronate							
1	14.320	14.325	-0.005	5028796H	0.2000	0.2107	
2	15.708	15.716	-0.008	4751160H	0.2000	0.2049	
						RPD = 2.77	
19 Methyl parathion							
1	15.222	15.230	-0.008	5280334H	0.2000	0.2027	
2	14.236	14.242	-0.006	6610359H	0.2000	0.2005	
						RPD = 1.10	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	15.536	15.544	-0.008	4100772H	0.2000	0.2052	
2	15.463	15.473	-0.010	4266763H	0.2000	0.2023	
						RPD = 1.41	
21 Tokuthion							
1	16.519	16.529	-0.010	3981553H	0.2000	0.2102	
2	18.372	18.382	-0.010	4518954H	0.2000	0.2054	
						RPD = 2.32	
22 Ethyl Parathion							
1	16.766	16.775	-0.009	5073589H	0.2000	0.2068	
2	15.772	15.783	-0.011	5661346H	0.2000	0.2036	
						RPD = 1.54	
23 Stirophos							
1	17.739	17.745	-0.006	3557582H	0.2000	0.1963	
2	18.182	18.189	-0.007	3680602H	0.2000	0.1944	
						RPD = 0.99	
24 Bolstar							
1	18.757	18.762	-0.005	4351715H	0.2000	0.2068	
2	20.877	20.884	-0.007	4868562H	0.2000	0.2064	
						RPD = 0.21	
25 Fensulfothion							
1	21.722	21.727	-0.005	4453276H	0.2000	0.1787	
2	20.635	20.641	-0.006	4194747H	0.2000	0.1740	
						RPD = 2.65	
26 EPN							
1	22.694	22.698	-0.004	4562132H	0.2000	0.1931	
2	22.947	22.953	-0.006	5102442H	0.2000	0.1933	
						RPD = 0.12	
27 Famphur							
1	22.988	22.990	-0.002	5315262H	0.2000	0.1961	
2	21.572	21.580	-0.008	5228054H	0.2000	0.1978	
						RPD = 0.85	
28 Azinphos-methyl							
1	23.316	23.320	-0.004	4072598H	0.2000	0.1800	
2	24.138	24.144	-0.006	4558480H	0.2000	0.1803	
						RPD = 0.21	
29 Coumaphos							
1	25.949	25.955	-0.006	4801631H	0.2000	0.1984	
2	25.381	25.386	-0.005	5504900H	0.2000	0.1971	
						RPD = 0.62	
S 30 Demeton, Total							
1					0.2000	0.2009	
2					0.2000	0.1981	
						RPD = 1.40	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCOPPLEVEL1_00001 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:17:19 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321005.D				
Injection Date:	21-Mar-2018 08:43:17	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	IC			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

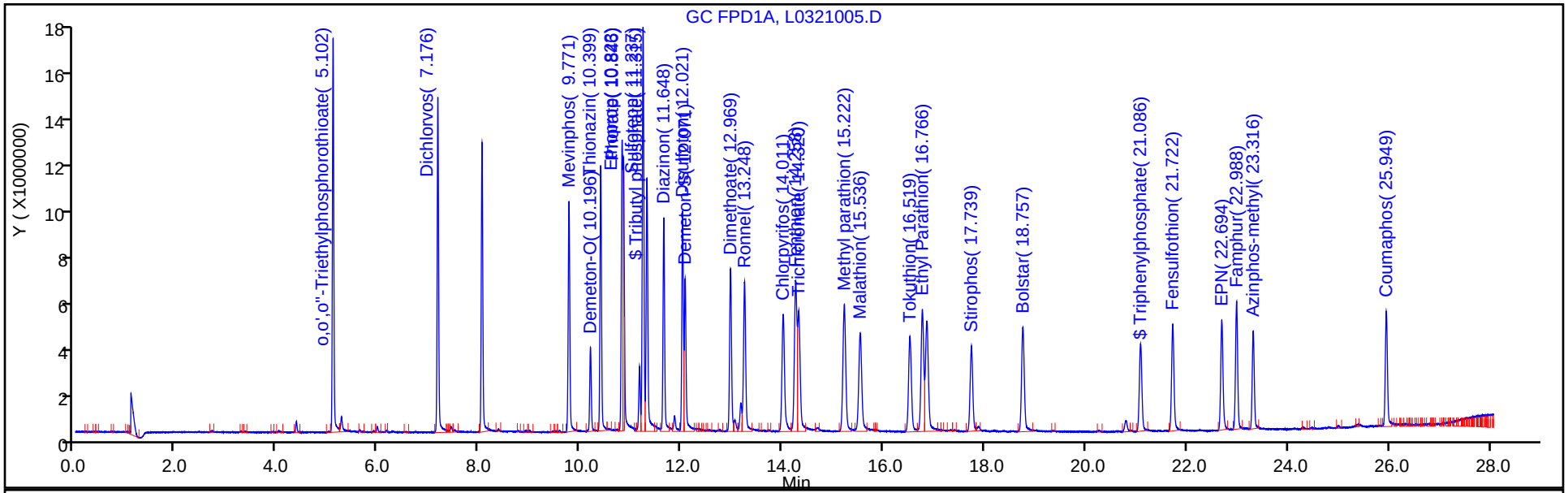

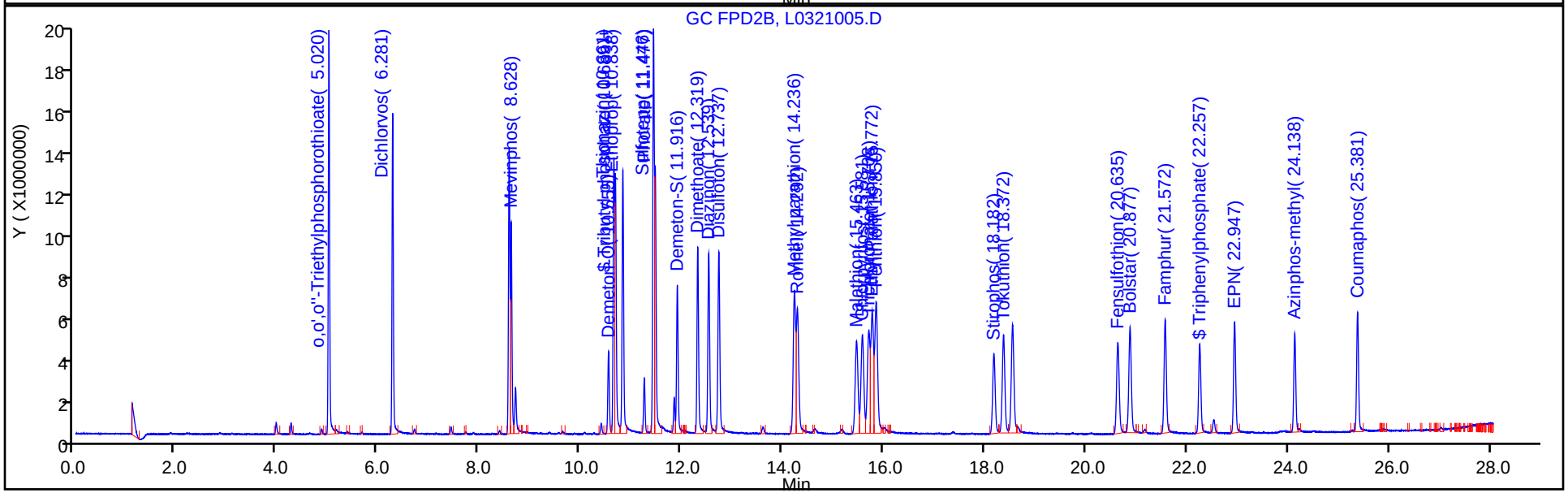

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321006.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 21-Mar-2018 09:16:22 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020992-002
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 22-Mar-2018 08:17:11 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK016

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.314	11.319	-0.005	22270981H	0.5000	0.4895	
2	10.689	10.694	-0.005	26120068H	0.5000	0.4868	
						RPD = 0.56	
$ 2 Triphenylphosphate							
1	21.087	21.092	-0.005	8170600H	0.5000	0.4842	
2	22.258	22.264	-0.006	9063082H	0.5000	0.4774	
						RPD = 1.43	
3 o,o',o''-Triethylphosphorothioate							
1	5.102	5.105	-0.003	38769489H	0.5000	0.4952	
2	5.019	5.023	-0.004	44375309H	0.5000	0.4976	
						RPD = 0.48	
4 Dichlorvos							
1	7.177	7.179	-0.002	33368262H	0.5000	0.4990	
2	6.280	6.284	-0.004	35622974H	0.5000	0.4995	
						RPD = 0.10	
5 Mevinphos							
1	9.771	9.774	-0.003	24896704H	0.5000	0.4968	
2	8.627	8.631	-0.004	25090545H	0.5000	0.5001	
						RPD = 0.66	
6 Demeton-O							
1	10.196	10.200	-0.004	8466330H	0.1700	0.1711	
2	10.554	10.559	-0.005	9268996H	0.1700	0.1704	
						RPD = 0.43	
7 Thionazin							
1	10.398	10.403	-0.005	26723861H	0.5000	0.5013	
2	10.660	10.665	-0.005	30585900H	0.5000	0.4981	
						RPD = 0.64	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.823	10.827	-0.004	29169549H	0.5000	0.5048	
2	10.837	10.842	-0.005	29977459H	0.5000	0.5058	
						RPD = 0.19	
9 Phorate							
1	10.848	10.854	-0.006	27626832H	0.5000	0.5120	
2	11.477	11.482	-0.005	29933904H	0.5000	0.5103	
						RPD = 0.33	
10 Sulfotepp							
1	11.237	11.241	-0.004	40770496H	0.5000	0.5026	
2	11.445	11.450	-0.005	45101838H	0.5000	0.4975	
						RPD = 1.03	
11 Diazinon							
1	11.647	11.652	-0.005	21755395H	0.5000	0.5130	
2	12.537	12.544	-0.007	20791242H	0.5000	0.5139	
						RPD = 0.18	
12 Disulfoton							
1	12.021	12.025	-0.004	22433878H	0.5000	0.5077	
2	12.738	12.744	-0.006	20570314H	0.5000	0.5071	
						RPD = 0.12	
13 Demeton-S							
1	12.071	12.075	-0.004	16126874H	0.3300	0.3310	
2	11.917	11.920	-0.003	17377131H	0.3300	0.3268	
						RPD = 1.27	
14 Dimethoate							
1	12.967	12.973	-0.006	18925086H	0.5000	0.4830	
2	12.319	12.325	-0.006	24049688H	0.5000	0.4822	
						RPD = 0.18	
15 Ronnel							
1	13.246	13.253	-0.007	15504653H	0.5000	0.5071	
2	14.292	14.300	-0.008	14238707H	0.5000	0.5054	
						RPD = 0.35	
16 Chlorpyrifos							
1	14.012	14.018	-0.006	12000228H	0.5000	0.5125	
2	15.581	15.589	-0.008	11109327H	0.5000	0.5045	
						RPD = 1.58	
17 Fenthion							
1	14.257	14.266	-0.009	15382547H	0.5000	0.5119	
2	15.851	15.860	-0.009	15067076H	0.5000	0.5068	
						RPD = 1.01	
18 Trichloronate							
1	14.318	14.325	-0.007	12261811H	0.5000	0.5137	
2	15.708	15.716	-0.008	11749166H	0.5000	0.5067	
						RPD = 1.36	
19 Methyl parathion							
1	15.221	15.230	-0.009	13025433H	0.5000	0.5001	
2	14.232	14.242	-0.010	16625756H	0.5000	0.5043	
						RPD = 0.84	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	15.537	15.544	-0.007	10002046H	0.5000	0.5004	
2	15.465	15.473	-0.008	10596335H	0.5000	0.5024	
						RPD = 0.40	
21 Tokuthion							
1	16.522	16.529	-0.007	9647215H	0.5000	0.5093	
2	18.371	18.382	-0.011	11254893H	0.5000	0.5115	
						RPD = 0.44	
22 Ethyl Parathion							
1	16.768	16.775	-0.007	12238540H	0.5000	0.4987	
2	15.772	15.783	-0.011	13858996H	0.5000	0.4984	
						RPD = 0.07	
23 Stirophos							
1	17.739	17.745	-0.006	9080877H	0.5000	0.5010	
2	18.181	18.189	-0.008	9369635H	0.5000	0.4948	
						RPD = 1.26	
24 Bolstar							
1	18.757	18.762	-0.005	10759629H	0.5000	0.5114	
2	20.880	20.884	-0.004	11908471H	0.5000	0.5049	
						RPD = 1.29	
25 Fensulfothion							
1	21.721	21.727	-0.006	12438180H	0.5000	0.4990	
2	20.637	20.641	-0.004	11924807H	0.5000	0.4946	
						RPD = 0.89	
26 EPN							
1	22.692	22.698	-0.006	11612545H	0.5000	0.4915	
2	22.949	22.953	-0.004	13192601H	0.5000	0.4998	
						RPD = 1.68	
27 Famphur							
1	22.985	22.990	-0.005	13407085H	0.5000	0.4946	
2	21.574	21.580	-0.006	13094029H	0.5000	0.4953	
						RPD = 0.14	
28 Azinphos-methyl							
1	23.317	23.320	-0.003	10972854H	0.5000	0.4849	
2	24.139	24.144	-0.005	12383628H	0.5000	0.4899	
						RPD = 1.04	
29 Coumaphos							
1	25.950	25.955	-0.005	12315776H	0.5000	0.5088	
2	25.382	25.386	-0.004	13866624H	0.5000	0.4966	
						RPD = 2.43	
S 30 Demeton, Total							
1					0.5000	0.5021	
2					0.5000	0.4972	
						RPD = 0.99	

Reagents:

GCOPPLEVEL2_00001 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:17:13 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321006.D				
Injection Date:	21-Mar-2018 09:16:22	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	IC			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

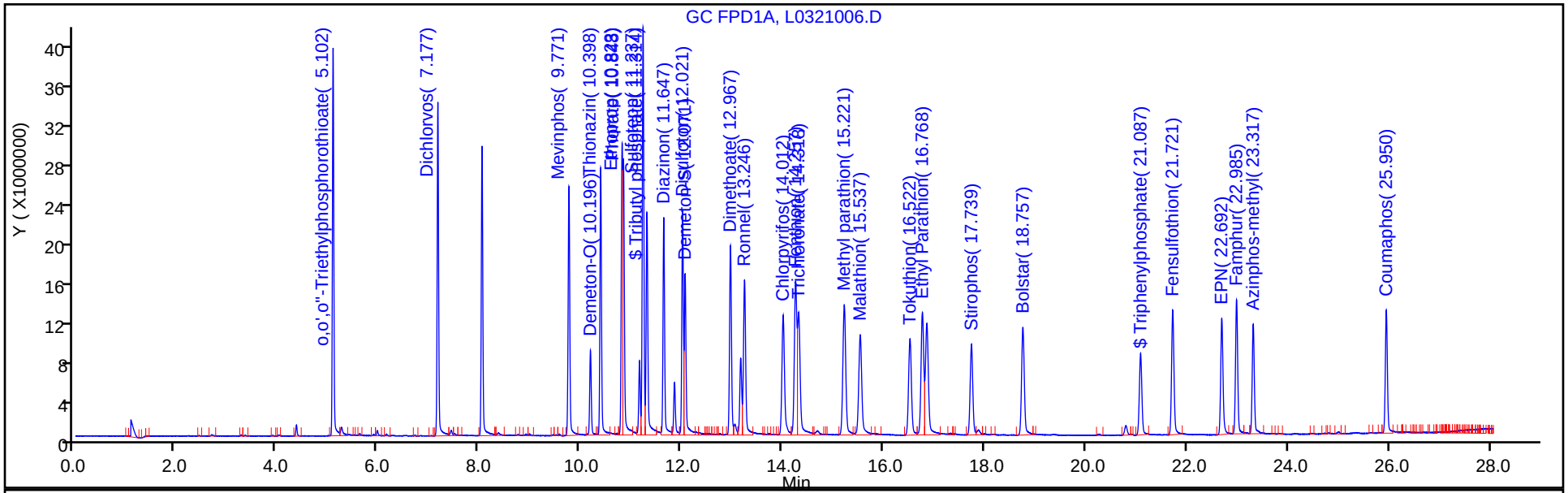

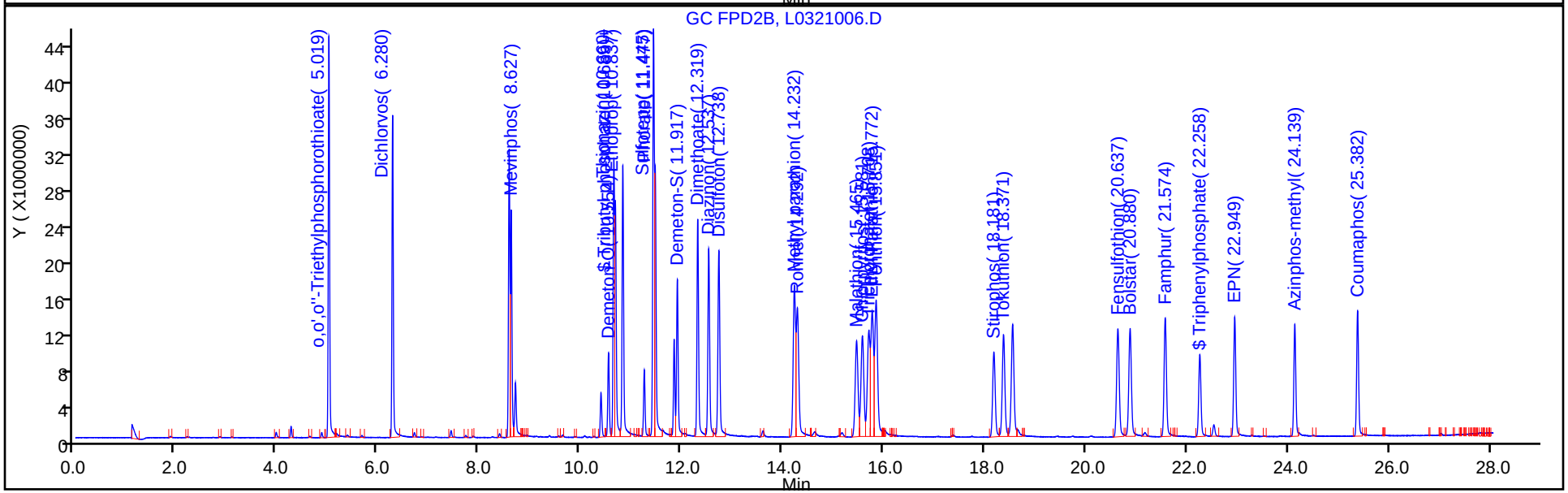

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321007.D
Lims ID: ICRT
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 21-Mar-2018 09:49:20 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020992-003
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 22-Mar-2018 08:17:03 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK016

First Level Reviewer: oravecj Date: 21-Mar-2018 13:18:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.316	11.319	-0.003	44628477H	1.00	0.9809	
2	10.688	10.694	-0.006	53244354H	1.00	0.99	
						RPD = 1.15	
$ 2 Triphenylphosphate							
1	21.086	21.092	-0.006	16435853H	1.00	0.9741	
2	22.258	22.264	-0.006	18690485H	1.00	0.9844	
						RPD = 1.06	
3 o,o',o''-Triethylphosphorothioate							
1	5.103	5.105	-0.002	78392076H	1.00	1.00	
2	5.020	5.023	-0.003	89037621H	1.00	1.00	
						RPD = 0.29	
4 Dichlorvos							
1	7.177	7.179	-0.002	66530767H	1.00	0.99	
2	6.281	6.284	-0.003	71165271H	1.00	1.00	
						RPD = 0.30	
5 Mevinphos							
1	9.772	9.774	-0.002	50765314H	1.00	1.01	
2	8.628	8.631	-0.003	50356238H	1.00	1.00	
						RPD = 0.92	
6 Demeton-O							
1	10.197	10.200	-0.003	16846722H	0.3400	0.3405	
2	10.556	10.559	-0.003	18561635H	0.3400	0.3412	
						RPD = 0.21	
7 Thionazin							
1	10.400	10.403	-0.003	55029146H	1.00	1.03	
2	10.662	10.665	-0.003	62506368H	1.00	1.02	
						RPD = 1.40	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.823	10.827	-0.004	57807649H	1.00	1.00	
2	10.838	10.842	-0.004	59668612H	1.00	1.01	
						RPD = 0.62	
9 Phorate							
1	10.850	10.854	-0.004	54530307H	1.00	1.01	
2	11.478	11.482	-0.004	58976576H	1.00	1.01	
						RPD = 0.52	
10 Sulfotepp							
1	11.239	11.241	-0.002	80925598H	1.00	1.00	
2	11.447	11.450	-0.003	91785159H	1.00	1.01	
						RPD = 1.46	
11 Diazinon							
1	11.648	11.652	-0.004	41559264H	1.00	0.9799	
2	12.540	12.544	-0.004	40332471H	1.00	1.00	
						RPD = 1.72	
12 Disulfoton							
1	12.022	12.025	-0.003	44201505H	1.00	1.00	
2	12.739	12.744	-0.005	40927593H	1.00	1.01	
						RPD = 0.86	
13 Demeton-S							
1	12.071	12.075	-0.004	32563386H	0.6600	0.6684	
2	11.916	11.920	-0.004	35555288H	0.6600	0.6688	
						RPD = 0.05	
14 Dimethoate							
1	12.969	12.973	-0.004	40176448H	1.00	1.03	
2	12.322	12.325	-0.003	51050029H	1.00	1.02	
						RPD = 0.19	
15 Ronnel							
1	13.247	13.253	-0.006	30207519H	1.00	0.9881	
2	14.295	14.300	-0.005	28040328H	1.00	1.00	
						RPD = 0.72	
16 Chlorpyrifos							
1	14.013	14.018	-0.005	23008160H	1.00	0.9826	
2	15.581	15.589	-0.008	21987751H	1.00	1.00	
						RPD = 1.60	
17 Fenthion							
1	14.261	14.266	-0.005	29703150H	1.00	0.9885	
2	15.855	15.860	-0.005	29579491H	1.00	0.99	
						RPD = 0.64	
18 Trichloronate							
1	14.317	14.325	-0.008	23644079H	1.00	0.99	
2	15.710	15.716	-0.006	23101196H	1.00	1.00	
						RPD = 0.58	
19 Methyl parathion							
1	15.223	15.230	-0.007	26051755H	1.00	1.00	
2	14.237	14.242	-0.005	32728046H	1.00	0.99	
						RPD = 0.75	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	15.535	15.544	-0.009	20037214H	1.00	1.00	
2	15.467	15.473	-0.006	21309960H	1.00	1.01	
						RPD = 0.78	
21 Tokuthion							
1	16.523	16.529	-0.006	18797273H	1.00	0.99	
2	18.374	18.382	-0.008	21974894H	1.00	1.00	
						RPD = 0.64	
22 Ethyl Parathion							
1	16.768	16.775	-0.007	24905189H	1.00	1.01	
2	15.775	15.783	-0.008	28030029H	1.00	1.01	
						RPD = 0.68	
23 Stirophos							
1	17.738	17.745	-0.007	18087189H	1.00	1.00	
2	18.184	18.189	-0.005	18917793H	1.00	1.00	
						RPD = 0.10	
24 Bolstar							
1	18.756	18.762	-0.006	20927762H	1.00	0.99	
2	20.877	20.884	-0.007	23670308H	1.00	1.00	
						RPD = 0.88	
25 Fensulfothion							
1	21.721	21.727	-0.006	24829487H	1.00	1.00	
2	20.637	20.641	-0.004	24533807H	1.00	1.02	
						RPD = 2.13	
26 EPN							
1	22.693	22.698	-0.005	23864536H	1.00	1.01	
2	22.948	22.953	-0.005	26415952H	1.00	1.00	
						RPD = 0.92	
27 Famphur							
1	22.986	22.990	-0.004	27119203H	1.00	1.00	
2	21.574	21.580	-0.006	26425021H	1.00	1.00	
						RPD = 0.09	
28 Azinphos-methyl							
1	23.315	23.320	-0.005	22710262H	1.00	1.00	
2	24.138	24.144	-0.006	25406256H	1.00	1.01	
						RPD = 0.16	
29 Coumaphos							
1	25.952	25.955	-0.003	24072784H	1.00	0.99	
2	25.381	25.386	-0.005	27643591H	1.00	0.9899	
						RPD = 0.46	
S 30 Demeton, Total							
1					1.00	1.01	
2					1.00	1.01	
						RPD = 0.10	

Reagents:

GCOPPLEVEL3_00001 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:17:04 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321007.D				
Injection Date:	21-Mar-2018 09:49:20	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	ICRT			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

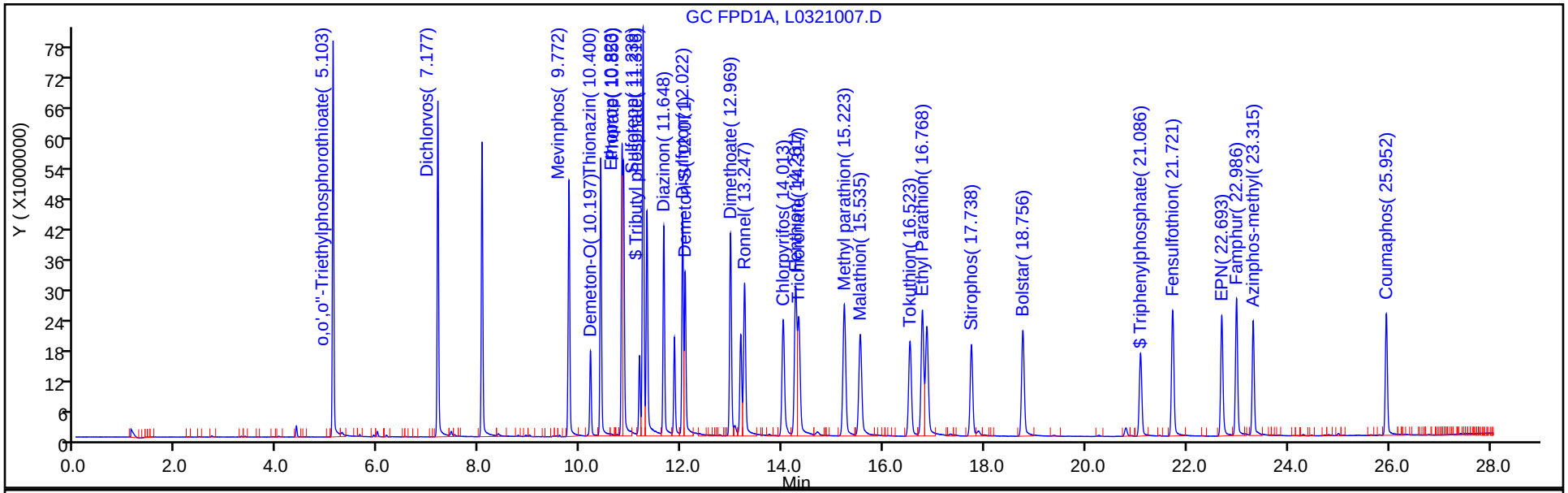

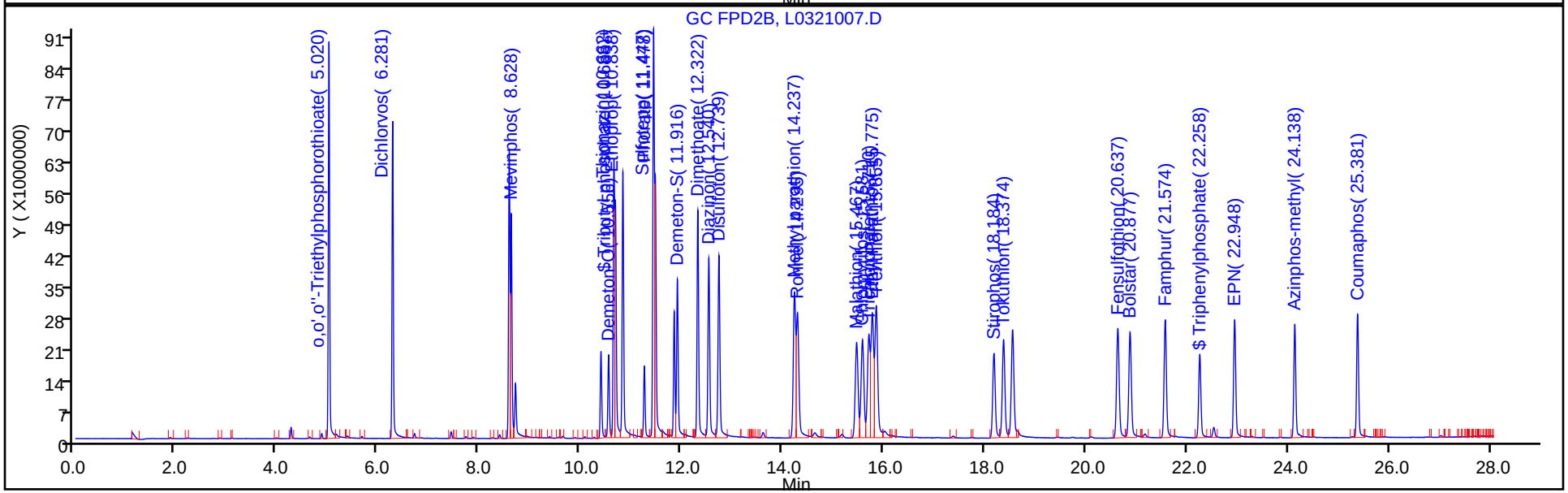

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321008.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 21-Mar-2018 10:22:25 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020992-004
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 22-Mar-2018 08:16:57 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK016

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.319	11.319	0.000	89806415H	2.00	1.97	
2	10.694	10.694	0.000	107314054H	2.00	2.00	
						RPD = 1.30	
$ 2 Triphenylphosphate							
1	21.092	21.092	0.000	34131333H	2.00	2.02	
2	22.264	22.264	0.000	38446199H	2.00	2.02	
						RPD = 0.11	
3 o,o',o''-Triethylphosphorothioate							
1	5.105	5.105	0.000	152496922H	2.00	1.95	
2	5.023	5.023	0.000	174142902H	2.00	1.95	
						RPD = 0.24	
4 Dichlorvos							
1	7.179	7.179	0.000	131396065H	2.00	1.96	
2	6.284	6.284	0.000	140335390H	2.00	1.97	
						RPD = 0.15	
5 Mevinphos							
1	9.774	9.774	0.000	100996102H	2.00	2.02	
2	8.631	8.631	0.000	101761653H	2.00	2.03	
						RPD = 0.64	
6 Demeton-O							
1	10.200	10.200	0.000	33266235H	0.6800	0.6723	
2	10.559	10.559	0.000	36952900H	0.6800	0.6792	
						RPD = 1.02	
7 Thionazin							
1	10.403	10.403	0.000	103707780H	2.00	1.95	
2	10.665	10.665	0.000	120499095H	2.00	1.96	
						RPD = 0.87	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.827	10.827	0.000	113720487H	2.00	1.97	
2	10.842	10.842	0.000	117588194H	2.00	1.98	
						RPD = 0.80	
9 Phorate							
1	10.854	10.854	0.000	106404680H	2.00	1.97	
2	11.482	11.482	0.000	115943148H	2.00	1.98	
						RPD = 0.23	
10 Sulfotepp							
1	11.241	11.241	0.000	161529094H	2.00	1.99	
2	11.450	11.450	0.000	179536795H	2.00	1.98	
						RPD = 0.56	
11 Diazinon							
1	11.652	11.652	0.000	84068890H	2.00	1.98	
2	12.544	12.544	0.000	80835035H	2.00	2.00	
						RPD = 0.79	
12 Disulfoton							
1	12.025	12.025	0.000	87482331H	2.00	1.98	
2	12.744	12.744	0.000	80750209H	2.00	1.99	
						RPD = 0.55	
13 Demeton-S							
1	12.075	12.075	0.000	65503323H	1.32	1.34	
2	11.920	11.920	0.000	71856761H	1.32	1.35	
						RPD = 0.52	
14 Dimethoate							
1	12.973	12.973	0.000	84047975H	2.00	2.15	
2	12.325	12.325	0.000	107775994H	2.00	2.16	
						RPD = 0.73	
15 Ronnel							
1	13.253	13.253	0.000	61477543H	2.00	2.01	
2	14.300	14.300	0.000	56396898H	2.00	2.00	
						RPD = 0.46	
16 Chlorpyrifos							
1	14.018	14.018	0.000	46628269H	2.00	1.99	
2	15.589	15.589	0.000	43958803H	2.00	2.00	
						RPD = 0.24	
17 Fenthion							
1	14.266	14.266	0.000	59774429H	2.00	1.99	
2	15.860	15.860	0.000	59697504H	2.00	2.01	
						RPD = 0.93	
18 Trichloronate							
1	14.325	14.325	0.000	46960029H	2.00	1.97	
2	15.716	15.716	0.000	46586048H	2.00	2.01	
						RPD = 2.11	
19 Methyl parathion							
1	15.230	15.230	0.000	52184695H	2.00	2.00	
2	14.242	14.242	0.000	66574547H	2.00	2.02	
						RPD = 0.79	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	15.544	15.544	0.000	40119020H	2.00	2.01	
2	15.473	15.473	0.000	42193018H	2.00	2.00	
						RPD = 0.33	
21 Tokuthion							
1	16.529	16.529	0.000	37584686H	2.00	1.98	
2	18.382	18.382	0.000	43583419H	2.00	1.98	
						RPD = 0.17	
22 Ethyl Parathion							
1	16.775	16.775	0.000	48428796H	2.00	1.97	
2	15.783	15.783	0.000	55697366H	2.00	2.00	
						RPD = 1.48	
23 Stirophos							
1	17.745	17.745	0.000	36992711H	2.00	2.04	
2	18.189	18.189	0.000	38780752H	2.00	2.05	
						RPD = 0.33	
24 Bolstar							
1	18.762	18.762	0.000	41900561H	2.00	1.99	
2	20.884	20.884	0.000	47594801H	2.00	2.02	
						RPD = 1.31	
25 Fensulfothion							
1	21.727	21.727	0.000	53347257H	2.00	2.14	
2	20.641	20.641	0.000	51861570H	2.00	2.15	
						RPD = 0.50	
26 EPN							
1	22.698	22.698	0.000	47977030H	2.00	2.03	
2	22.953	22.953	0.000	53792403H	2.00	2.04	
						RPD = 0.37	
27 Famphur							
1	22.990	22.990	0.000	55041686H	2.00	2.03	
2	21.580	21.580	0.000	53774512H	2.00	2.03	
						RPD = 0.17	
28 Azinphos-methyl							
1	23.320	23.320	0.000	48460752H	2.00	2.14	
2	24.144	24.144	0.000	53228184H	2.00	2.11	
						RPD = 1.67	
29 Coumaphos							
1	25.955	25.955	0.000	48377501H	2.00	2.00	
2	25.386	25.386	0.000	57270682H	2.00	2.05	
						RPD = 2.59	
S 30 Demeton, Total							
1					2.00	2.02	
2					2.00	2.03	
						RPD = 0.69	

Reagents:

GCOPPLEVEL4_00001 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:16:59 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321008.D				
Injection Date:	21-Mar-2018 10:22:25	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

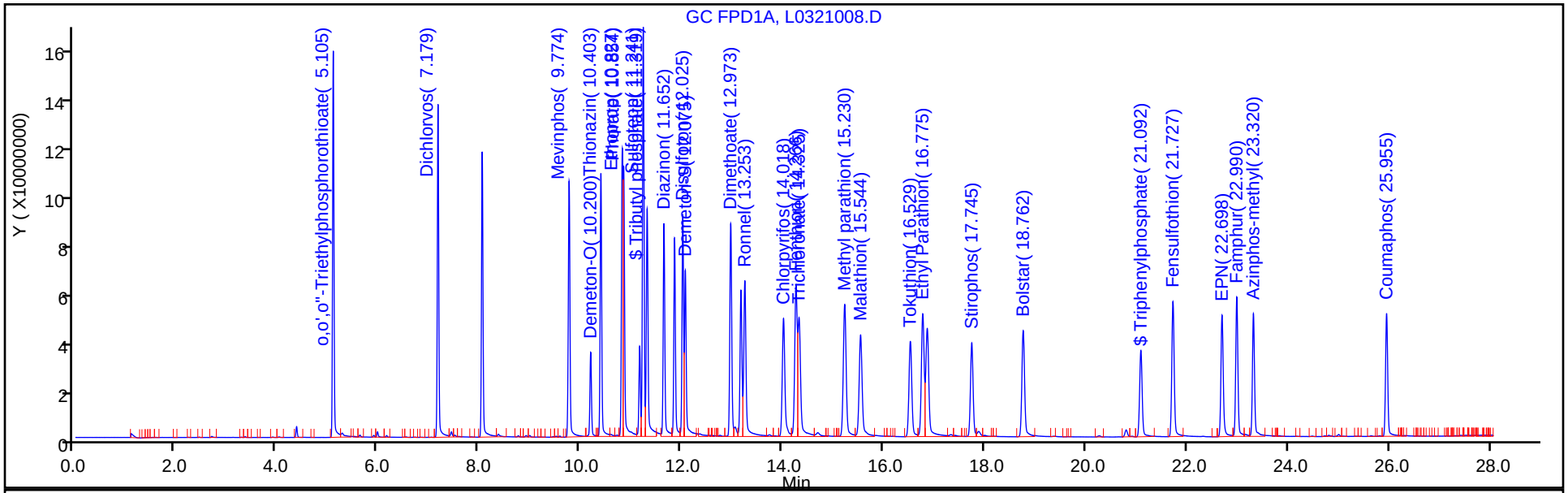

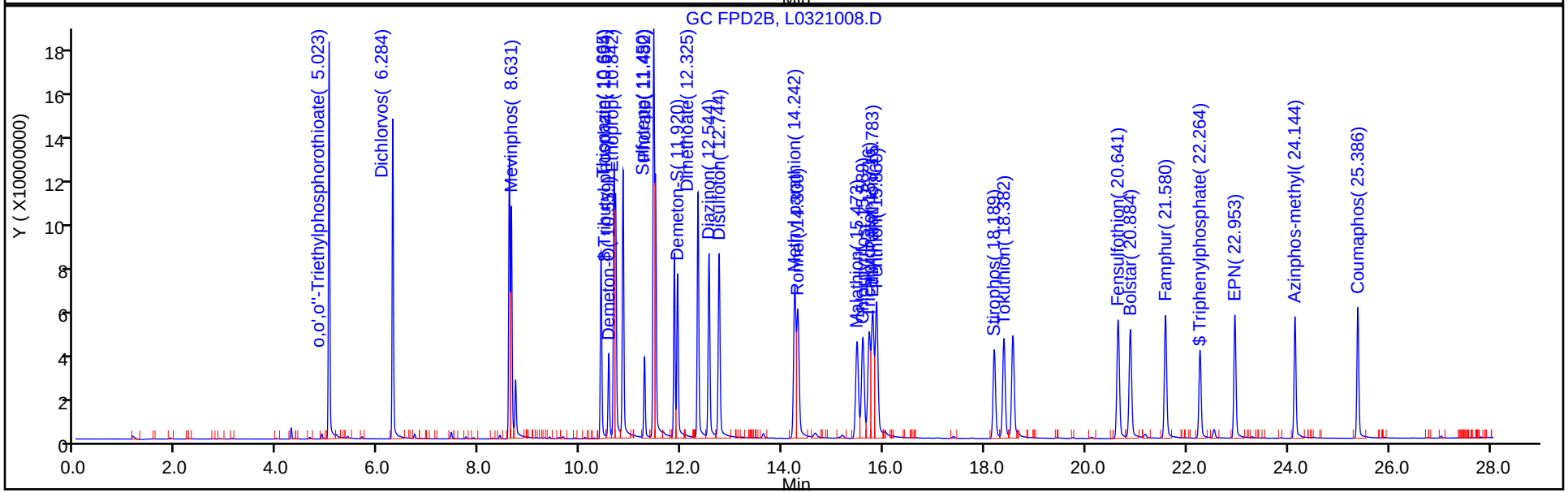

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 21-Mar-2018 10:55:20 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020992-005
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 22-Mar-2018 08:16:53 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK016

First Level Reviewer: oravecj Date: 22-Mar-2018 08:16:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.317	11.319	-0.002	162855641H	4.00	3.58	
2	10.692	10.694	-0.002	196555986H	4.00	3.66	
						RPD = 2.30	
$ 2 Triphenylphosphate							
1	21.090	21.092	-0.002	65235370H	4.00	3.87	
2	22.263	22.264	-0.001	73611754H	4.00	3.88	
						RPD = 0.29	
3 o,o',o''-Triethylphosphorothioate							
1	5.105	5.105	0.000	309535776H	4.00	3.95	
2	5.023	5.023	0.000	351634599H	4.00	3.94	
						RPD = 0.28	
4 Dichlorvos							
1	7.178	7.179	-0.001	262569972H	4.00	3.93	
2	6.283	6.284	-0.001	280137578H	4.00	3.93	
						RPD = 0.04	
5 Mevinphos							
1	9.774	9.774	0.000	206215964H	4.00	4.11	
2	8.632	8.631	0.001	202703197H	4.00	4.04	
						RPD = 1.83	
6 Demeton-O							
1	10.200	10.200	0.000	64989426H	1.36	1.31	
2	10.559	10.559	0.000	71845219H	1.36	1.32	
						RPD = 0.54	
7 Thionazin							
1	10.402	10.403	-0.001	204181067H	4.00	3.83	
2	10.665	10.665	0.000	238976604H	4.00	3.89	
						RPD = 1.60	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.824	10.827	-0.003	221520698H	4.00	3.83	
2	10.842	10.842	0.000	229044270H	4.00	3.86	
						RPD = 0.79	
9 Phorate							
1	10.853	10.854	-0.001	201102975H	4.00	3.73	
2	11.482	11.482	0.000	219243901H	4.00	3.74	
						RPD = 0.28	
10 Sulfotepp							
1	11.242	11.241	0.001	313038831H	4.00	3.86	
2	11.449	11.450	-0.001	352900651H	4.00	3.89	
						RPD = 0.86	
11 Diazinon							
1	11.651	11.652	-0.001	161860599H	4.00	3.82	
2	12.543	12.544	-0.001	153485439H	4.00	3.79	
						RPD = 0.60	
12 Disulfoton							
1	12.024	12.025	-0.001	169343509H	4.00	3.83	
2	12.743	12.744	-0.001	153901646H	4.00	3.79	
						RPD = 1.01	
13 Demeton-S							
1	12.073	12.075	-0.002	125785604H	2.64	2.58	
2	11.920	11.920	0.000	140256529H	2.64	2.64	
						RPD = 2.15	
14 Dimethoate							
1	12.973	12.973	0.000	167859727H	4.00	4.28	
2	12.325	12.325	0.000	213449833H	4.00	4.28	
						RPD = 0.11	
15 Ronnel							
1	13.250	13.253	-0.003	119314761H	4.00	3.90	
2	14.302	14.300	0.002	109051205H	4.00	3.87	
						RPD = 0.83	
16 Chlorpyrifos							
1	14.017	14.018	-0.001	89481517H	4.00	3.82	
2	15.588	15.589	-0.001	84868441H	4.00	3.85	
						RPD = 0.84	
17 Fenthion							
1	14.265	14.266	-0.001	114343499H	4.00	3.81	
2	15.860	15.860	0.000	114584327H	4.00	3.85	
						RPD = 1.27	
18 Trichloronate							
1	14.325	14.325	0.000	90258807H	4.00	3.78	
2	15.717	15.716	0.001	89153099H	4.00	3.84	
						RPD = 1.67	
19 Methyl parathion							
1	15.225	15.230	-0.005	102538632H	4.00	3.94	
2	14.242	14.242	0.000	130045547H	4.00	3.94	
						RPD = 0.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	15.542	15.544	-0.002	77333552H	4.00	3.87	
2	15.474	15.473	0.001	82093133H	4.00	3.89	
						RPD = 0.60	
21 Tokuthion							
1	16.528	16.529	-0.001	71665483H	4.00	3.78	
2	18.380	18.382	-0.002	84559083H	4.00	3.84	
						RPD = 1.57	
22 Ethyl Parathion							
1	16.772	16.775	-0.003	94927355H	4.00	3.87	
2	15.782	15.783	-0.001	108517268H	4.00	3.90	
						RPD = 0.88	
23 Stirophos							
1	17.742	17.745	-0.003	72358909H	4.00	3.99	
2	18.192	18.189	0.003	76950974H	4.00	4.06	
						RPD = 1.76	
24 Bolstar							
1	18.762	18.762	0.000	80167167H	4.00	3.81	
2	20.882	20.884	-0.002	89235012H	4.00	3.78	
						RPD = 0.71	
25 Fensulfothion							
1	21.726	21.727	-0.001	103899415H	4.00	4.17	
2	20.642	20.641	0.001	101017770H	4.00	4.19	
						RPD = 0.51	
26 EPN							
1	22.698	22.698	0.000	97023283H	4.00	4.11	
2	22.953	22.953	0.000	107087359H	4.00	4.06	
						RPD = 1.21	
27 Famphur							
1	22.990	22.990	0.000	109998984H	4.00	4.06	
2	21.580	21.580	0.000	106172097H	4.00	4.02	
						RPD = 1.04	
28 Azinphos-methyl							
1	23.319	23.320	-0.001	95630844H	4.00	4.23	
2	24.142	24.144	-0.002	107222645H	4.00	4.24	
						RPD = 0.39	
29 Coumaphos							
1	25.954	25.955	-0.001	96525697H	4.00	3.99	
2	25.386	25.386	0.000	112349977H	4.00	4.02	
						RPD = 0.89	
S 30 Demeton, Total							
1					4.00	3.90	
2					4.00	3.96	
						RPD = 1.61	

Reagents:

GCOPPLEVEL5_00001 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:16:54 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D				
Injection Date:	21-Mar-2018 10:55:20	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	IC			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

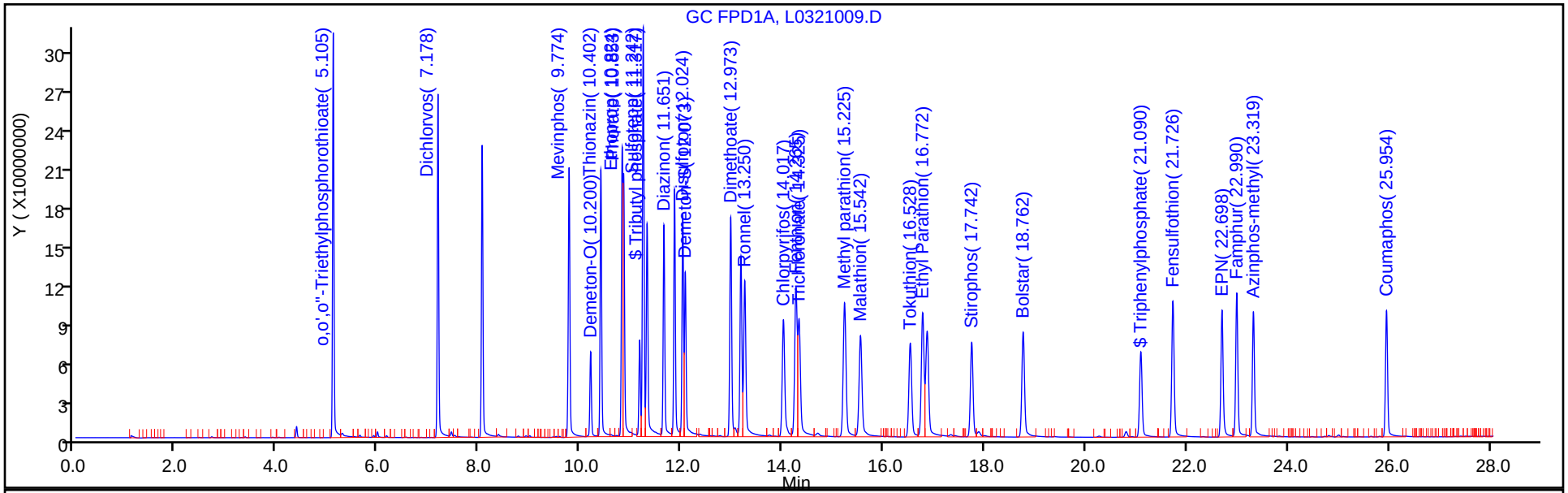

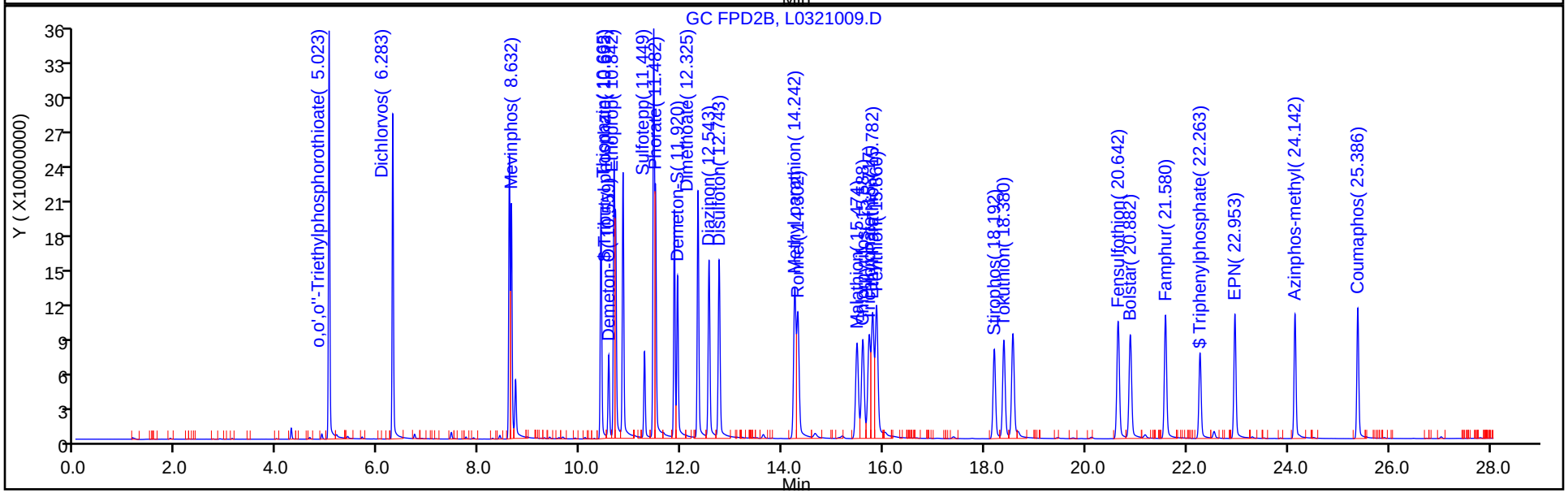

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Lab Sample ID: CCVRT 180-254752/1 Calibration Date: 08/23/2018 06:24

Instrument ID: CHGC5 Calib Start Date: 03/21/2018 08:43

GC Column: RTX-OPP1 ID: 0.53(mm) Calib End Date: 03/21/2018 10:55

Lab File ID: L0082301.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
O,O,O-Triethyl phosphorothioate	Ave	78289401	83480047		2.13	2.00	6.6	20.0
Dichlorvos	Ave	66871856	68205341		2.04	2.00	2.0	20.0
Mevinphos	Ave	50113953	44918470		1.79	2.00	-10.4	20.0
Demeton-O	Ave	49483227	48404893		0.665	0.680	-2.2	20.0
Thionazin	Ave	53314169	48935976		1.84	2.00	-8.2	20.0
Mocap	Ave	57782696	51610349		1.79	2.00	-10.7	20.0
Phorate	Ave	53959369	47997224		1.78	2.00	-11.0	20.0
Sulfotepp	Ave	81113156	79478581		1.96	2.00	-2.0	20.0
Diazinon	Ave	42410446	41765276		1.97	2.00	-1.5	20.0
Disulfoton	Ave	44187823	54354428		2.46	2.00	23.0*	20.0
Demeton-S	Ave	48716002	54392042		1.47	1.32	11.7	20.0
Dimethoate	Ave	39181173	40354712		2.06	2.00	3.0	20.0
Ronnel	Ave	30572605	32012335		2.09	2.00	4.7	20.0
Chlorpyrifos	Ave	23414497	25076002		2.14	2.00	7.1	20.0
Fenthion	Ave	30049217	31104546		2.07	2.00	3.5	20.0
Trichloronate	Ave	23871279	24845087		2.08	2.00	4.1	20.0
Methyl parathion	Ave	26046259	26937752		2.07	2.00	3.4	20.0
Malathion	Ave	19987613	19748559		1.98	2.00	-1.2	20.0
Tokuthion	Ave	18941636	18351214		1.94	2.00	-3.1	20.0
Parathion	Ave	24539290	24361094		1.99	2.00	-0.7	20.0
Stirophos	Ave	18124587	18018411		1.99	2.00	-0.6	20.0
Bolstar	Ave	21039533	21359639		2.03	2.00	1.5	20.0
Fensulfothion	Ave	24924142	23527105		1.89	2.00	-5.6	20.0
EPN	Ave	23628924	24115090		2.04	2.00	2.1	20.0
Famphur	Ave	27106054	27455257		2.03	2.00	1.3	20.0
Azinphos-methyl	Ave	22631409	22105618		1.95	2.00	-2.3	20.0
Coumaphos	Ave	24206533	25872578		2.14	2.00	6.9	20.0
Tributyl phosphate	Ave	45496937	42143817		1.85	2.00	-7.4	20.0
Triphenylphosphate	Ave	16873704	16049008		1.90	2.00	-4.9	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Lab Sample ID: CCVRT 180-254752/1 Calibration Date: 08/23/2018 06:24

Instrument ID: CHGC5 Calib Start Date: 03/21/2018 08:43

GC Column: RTX-OPP1 ID: 0.53(mm) Calib End Date: 03/21/2018 10:55

Lab File ID: L0082301.D

Analyte	RT	RT WINDOW	
		FROM	TO
O,O,O-Triethyl phosphorothioate	4.90	4.87	4.93
Dichlorvos	6.91	6.88	6.94
Mevinphos	9.47	9.44	9.50
Demeton-O	9.95	9.92	9.98
Thionazin	10.14	10.11	10.17
Mocap	10.55	10.52	10.58
Phorate	10.60	10.57	10.63
Sulfotepp	10.97	10.94	11.00
Diazinon	11.41	11.38	11.44
Disulfoton	11.77	11.74	11.80
Demeton-S	11.79	11.76	11.82
Dimethoate	12.58	12.55	12.61
Ronnel	12.91	12.88	12.94
Chlorpyrifos	13.62	13.59	13.65
Fenthion	13.83	13.80	13.86
Trichloronate	13.90	13.87	13.93
Methyl parathion	14.64	14.61	14.67
Malathion	14.98	14.95	15.01
Tokuthion	16.06	16.03	16.09
Parathion	16.21	16.18	16.24
Stirophos	17.22	17.19	17.25
Bolstar	18.30	18.27	18.33
Fensulfothion	21.20	21.17	21.23
EPN	22.26	22.23	22.29
Famphur	22.50	22.47	22.53
Azinphos-methyl	22.89	22.86	22.92
Coumaphos	25.55	25.52	25.58
Tributyl phosphate	11.04	11.01	11.07
Triphenylphosphate	20.60	20.57	20.63

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082301.D
Lims ID: CCVRT
Client ID:
Sample Type: CCVRT
Inject. Date: 23-Aug-2018 06:24:11 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0023306-001
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 23-Aug-2018 10:54:39 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Aug-2018 08:32:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.043	11.043	0.000	84287633H	2.00	1.85	
2	10.718	10.718	0.000	95129988H	2.00	1.77	
						RPD = 4.40	
$ 2 Triphenylphosphate							
1	20.604	20.604	0.000	32098016H	2.00	1.90	
2	22.270	22.270	0.000	37693461H	2.00	1.99	
						RPD = 4.27	
3 o,o',o''-Triethylphosphorothioate							
1	4.895	4.895	0.000	166960094H	2.00	2.13	
2	5.044	5.044	0.000	183050102H	2.00	2.05	
						RPD = 3.83	
4 Dichlorvos							
1	6.906	6.906	0.000	136410681H	2.00	2.04	
2	6.305	6.305	0.000	140296972H	2.00	1.97	
						RPD = 3.63	
5 Mevinphos							
1	9.474	9.474	0.000	89836939H	2.00	1.79	
2	8.652	8.652	0.000	88644625H	2.00	1.77	
						RPD = 1.45	
6 Demeton-O							
1	9.947	9.947	0.000	32915327H	0.6800	0.6652	
2	10.578	10.578	0.000	35970436H	0.6800	0.6611	
						RPD = 0.61	
7 Thionazin							
1	10.136	10.136	0.000	97871952H	2.00	1.84	
2	10.683	10.683	0.000	109244944H	2.00	1.78	
						RPD = 3.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.550	10.550	0.000	103220697H	2.00	1.79	
2	10.862	10.862	0.000	113809529H	2.00	1.92	
						RPD = 7.22	
9 Phorate							
1	10.599	10.599	0.000	95994448H	2.00	1.78	
2	11.503	11.503	0.000	112389556H	2.00	1.92	
						RPD = 7.41	
10 Sulfotepp							
1	10.973	10.973	0.000	158957161H	2.00	1.96	
2	11.464	11.464	0.000	173984818H	2.00	1.92	
						RPD = 2.10	
11 Diazinon							
1	11.413	11.413	0.000	83530552H	2.00	1.97	
2	12.565	12.565	0.000	79511350H	2.00	1.97	
						RPD = 0.22	
12 Disulfoton							M
1	11.771	11.771	0.000	108708855H	2.00	2.46	
2	12.767	12.767	0.000	77793732H	2.00	1.92	
						RPD = 24.78	
13 Demeton-S							M
1	11.790	11.790	0.000	71797496H	1.32	1.47	
2	11.938	11.938	0.000	70415614H	1.32	1.32	
						RPD = 10.67	
14 Dimethoate							
1	12.583	12.583	0.000	80709423H	2.00	2.06	
2	12.348	12.348	0.000	91533337H	2.00	1.84	
						RPD = 11.54	
15 Ronnel							
1	12.907	12.907	0.000	64024670H	2.00	2.09	
2	14.328	14.328	0.000	56997736H	2.00	2.02	
						RPD = 3.46	
16 Chlorpyrifos							
1	13.619	13.619	0.000	50152004H	2.00	2.14	
2	15.610	15.610	0.000	44401223H	2.00	2.02	
						RPD = 6.05	
17 Fenthion							
1	13.829	13.829	0.000	62209091H	2.00	2.07	
2	15.879	15.879	0.000	60594538H	2.00	2.04	
						RPD = 1.57	
18 Trichloronate							
1	13.902	13.902	0.000	49690173H	2.00	2.08	
2	15.747	15.747	0.000	46882248H	2.00	2.02	
						RPD = 2.91	
19 Methyl parathion							
1	14.635	14.635	0.000	53875503H	2.00	2.07	
2	14.270	14.270	0.000	63773270H	2.00	1.93	
						RPD = 6.69	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	14.981	14.981	0.000	39497117H	2.00	1.98	
2	15.491	15.491	0.000	43012991H	2.00	2.04	
						RPD = 3.15	
21 Tokuthion							
1	16.055	16.055	0.000	36702428H	2.00	1.94	
2	18.406	18.406	0.000	44012243H	2.00	2.00	
						RPD = 3.18	
22 Ethyl Parathion							
1	16.211	16.211	0.000	48722188H	2.00	1.99	
2	15.808	15.808	0.000	56715335H	2.00	2.04	
						RPD = 2.69	
23 Stirophos							
1	17.224	17.224	0.000	36036821H	2.00	1.99	
2	18.210	18.210	0.000	38952764H	2.00	2.06	
						RPD = 3.39	
24 Bolstar							
1	18.304	18.304	0.000	42719277H	2.00	2.03	
2	20.896	20.896	0.000	47731142H	2.00	2.02	
						RPD = 0.34	
25 Fensulfothion							
1	21.195	21.195	0.000	47054210H	2.00	1.89	
2	20.658	20.658	0.000	47141766H	2.00	1.96	
						RPD = 3.51	
26 EPN							
1	22.255	22.255	0.000	48230179H	2.00	2.04	
2	22.963	22.963	0.000	53322010H	2.00	2.02	
						RPD = 1.04	
27 Famphur							
1	22.500	22.500	0.000	54910514H	2.00	2.03	
2	21.586	21.586	0.000	54128508H	2.00	2.05	
						RPD = 1.07	
28 Azinphos-methyl							
1	22.894	22.894	0.000	44211236H	2.00	1.95	
2	24.147	24.147	0.000	50066621H	2.00	1.98	
						RPD = 1.38	
29 Coumaphos							
1	25.547	25.547	0.000	51745156H	2.00	2.14	
2	25.392	25.392	0.000	55012734H	2.00	1.97	
						RPD = 8.16	
S 30 Demeton, Total							
1					2.00	2.14	
2					2.00	1.99	
						RPD = 7.44	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCOPPLEVEL4_00004 Amount Added: 1.00 Units: mL

Report Date: 23-Aug-2018 10:54:39 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082301.D				
Injection Date:	23-Aug-2018 06:24:11	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	CCVRT			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

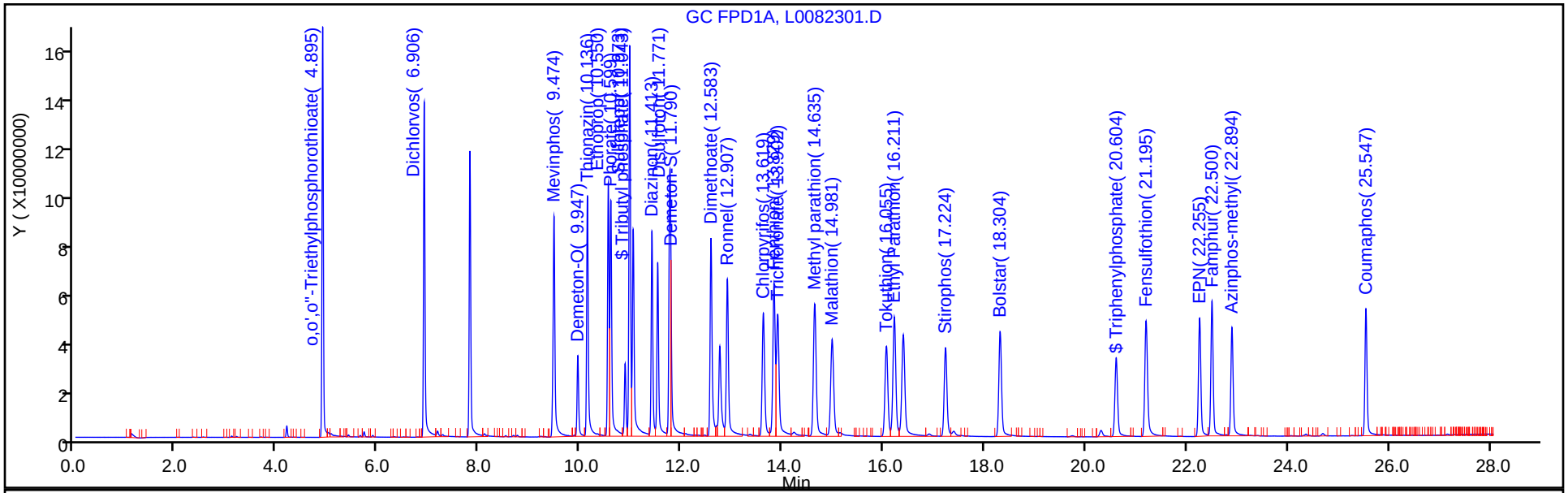

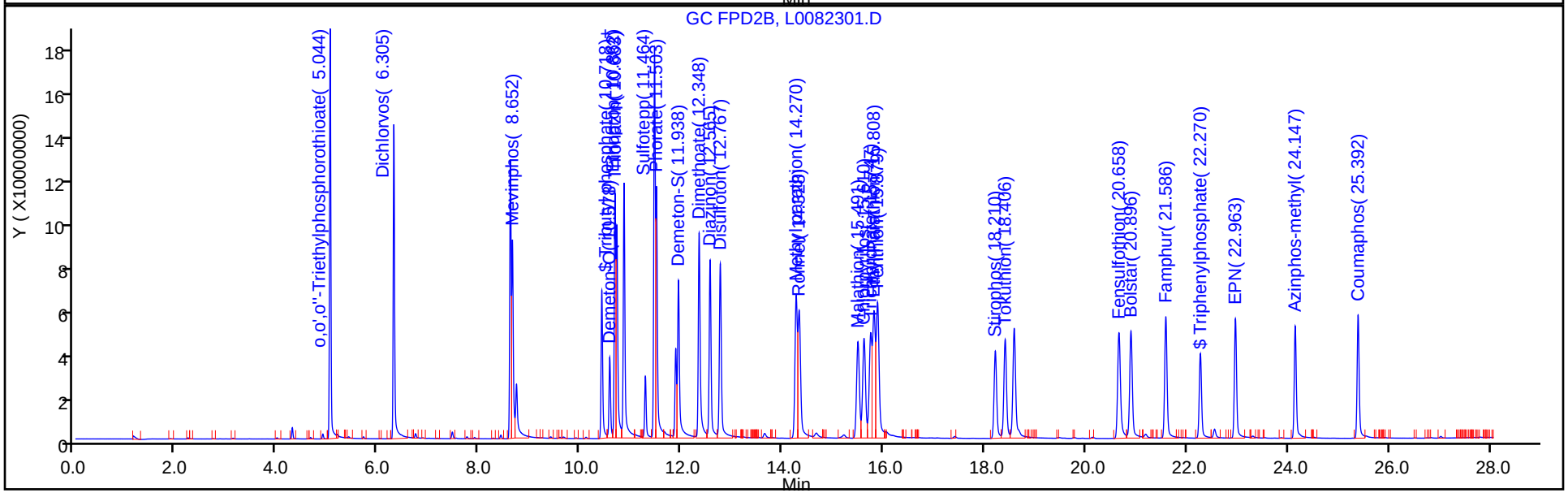

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Lab Sample ID: CCVRT 180-254752/1 Calibration Date: 08/23/2018 06:24

Instrument ID: CHGC5 Calib Start Date: 03/21/2018 08:43

GC Column: RTX-OPP2 ID: 0.53(mm) Calib End Date: 03/21/2018 10:55

Lab File ID: L0082301.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
O,O,O-Triethyl phosphorothioate	Ave	89183630	91525051		2.05	2.00	2.6	20.0
Dichlorvos	Ave	71316242	70148486		1.97	2.00	-1.6	20.0
Mevinphos	Ave	50171782	44322313		1.77	2.00	-11.7	20.0
Demeton-O	Ave	54407666	52897700		0.661	0.680	-2.8	20.0
Thionazin	Ave	61409613	54622472		1.78	2.00	-11.1	20.0
Mocap	Ave	59272201	56904765		1.92	2.00	-4.0	20.0
Sulfotepp	Ave	90661250	86992409		1.92	2.00	-4.0	20.0
Phorate	Ave	58661425	56194778		1.92	2.00	-4.2	20.0
Demeton-S	Ave	53165777	53345162		1.32	1.32	0.3	20.0
Dimethoate	Ave	49879018	45766669		1.84	2.00	-8.2	20.0
Diazinon	Ave	40458009	39755675		1.97	2.00	-1.7	20.0
Disulfoton	Ave	40565383	38896866		1.92	2.00	-4.1	20.0
Methyl parathion	Ave	32966003	31886635		1.93	2.00	-3.3	20.0
Ronnel	Ave	28174794	28498868		2.02	2.00	1.2	20.0
Malathion	Ave	21091247	21506496		2.04	2.00	2.0	20.0
Chlorpyrifos	Ave	22021860	22200612		2.02	2.00	0.8	20.0
Trichloronate	Ave	23187325	23441124		2.02	2.00	1.1	20.0
Parathion	Ave	27806550	28357668		2.04	2.00	2.0	20.0
Fenthion	Ave	29731805	30297269		2.04	2.00	1.9	20.0
Stirophos	Ave	18937639	19476382		2.06	2.00	2.8	20.0
Tokuthion	Ave	22002186	22006122		2.00	2.00	0.0	20.0
Fensulfothion	Ave	24108477	23570883		1.96	2.00	-2.2	20.0
Bolstar	Ave	23587243	23865571		2.02	2.00	1.2	20.0
Famphur	Ave	26436726	27064254		2.05	2.00	2.4	20.0
EPN	Ave	26396281	26661005		2.02	2.00	1.0	20.0
Azinphos-methyl	Ave	25277133	25033311		1.98	2.00	-1.0	20.0
Coumaphos	Ave	27924835	27506367		1.97	2.00	-1.5	20.0
Tributyl phosphate	Ave	53661746	47564994		1.77	2.00	-11.4	20.0
Triphenylphosphate	Ave	18986089	18846731		1.99	2.00	-0.7	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Lab Sample ID: CCVRT 180-254752/1 Calibration Date: 08/23/2018 06:24

Instrument ID: CHGC5 Calib Start Date: 03/21/2018 08:43

GC Column: RTX-OPP2 ID: 0.53(mm) Calib End Date: 03/21/2018 10:55

Lab File ID: L0082301.D

Analyte	RT	RT WINDOW	
		FROM	TO
O,O,O-Triethyl phosphorothioate	5.04	5.01	5.07
Dichlorvos	6.31	6.28	6.34
Mevinphos	8.65	8.62	8.68
Demeton-O	10.58	10.55	10.61
Thionazin	10.68	10.65	10.71
Mocap	10.86	10.83	10.89
Sulfotepp	11.46	11.43	11.49
Phorate	11.50	11.47	11.53
Demeton-S	11.94	11.91	11.97
Dimethoate	12.35	12.32	12.38
Diazinon	12.57	12.54	12.60
Disulfoton	12.77	12.74	12.80
Methyl parathion	14.27	14.24	14.30
Ronnel	14.33	14.30	14.36
Malathion	15.49	15.46	15.52
Chlorpyrifos	15.61	15.58	15.64
Trichloronate	15.75	15.72	15.78
Parathion	15.81	15.78	15.84
Fenthion	15.88	15.85	15.91
Stirophos	18.21	18.18	18.24
Tokuthion	18.41	18.38	18.44
Fensulfothion	20.66	20.63	20.69
Bolstar	20.90	20.87	20.93
Famphur	21.59	21.56	21.62
EPN	22.96	22.93	22.99
Azinphos-methyl	24.15	24.12	24.18
Coumaphos	25.39	25.36	25.42
Tributyl phosphate	10.72	10.69	10.75
Triphenylphosphate	22.27	22.24	22.30

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082301.D
Lims ID: CCVRT
Client ID:
Sample Type: CCVRT
Inject. Date: 23-Aug-2018 06:24:11 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0023306-001
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 23-Aug-2018 10:54:39 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Aug-2018 08:32:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.043	11.043	0.000	84287633H	2.00	1.85	
2	10.718	10.718	0.000	95129988H	2.00	1.77	
						RPD = 4.40	
$ 2 Triphenylphosphate							
1	20.604	20.604	0.000	32098016H	2.00	1.90	
2	22.270	22.270	0.000	37693461H	2.00	1.99	
						RPD = 4.27	
3 o,o',o''-Triethylphosphorothioate							
1	4.895	4.895	0.000	166960094H	2.00	2.13	
2	5.044	5.044	0.000	183050102H	2.00	2.05	
						RPD = 3.83	
4 Dichlorvos							
1	6.906	6.906	0.000	136410681H	2.00	2.04	
2	6.305	6.305	0.000	140296972H	2.00	1.97	
						RPD = 3.63	
5 Mevinphos							
1	9.474	9.474	0.000	89836939H	2.00	1.79	
2	8.652	8.652	0.000	88644625H	2.00	1.77	
						RPD = 1.45	
6 Demeton-O							
1	9.947	9.947	0.000	32915327H	0.6800	0.6652	
2	10.578	10.578	0.000	35970436H	0.6800	0.6611	
						RPD = 0.61	
7 Thionazin							
1	10.136	10.136	0.000	97871952H	2.00	1.84	
2	10.683	10.683	0.000	109244944H	2.00	1.78	
						RPD = 3.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.550	10.550	0.000	103220697H	2.00	1.79	
2	10.862	10.862	0.000	113809529H	2.00	1.92	
						RPD = 7.22	
9 Phorate							
1	10.599	10.599	0.000	95994448H	2.00	1.78	
2	11.503	11.503	0.000	112389556H	2.00	1.92	
						RPD = 7.41	
10 Sulfotepp							
1	10.973	10.973	0.000	158957161H	2.00	1.96	
2	11.464	11.464	0.000	173984818H	2.00	1.92	
						RPD = 2.10	
11 Diazinon							
1	11.413	11.413	0.000	83530552H	2.00	1.97	
2	12.565	12.565	0.000	79511350H	2.00	1.97	
						RPD = 0.22	
12 Disulfoton							M
1	11.771	11.771	0.000	108708855H	2.00	2.46	
2	12.767	12.767	0.000	77793732H	2.00	1.92	
						RPD = 24.78	
13 Demeton-S							M
1	11.790	11.790	0.000	71797496H	1.32	1.47	
2	11.938	11.938	0.000	70415614H	1.32	1.32	
						RPD = 10.67	
14 Dimethoate							
1	12.583	12.583	0.000	80709423H	2.00	2.06	
2	12.348	12.348	0.000	91533337H	2.00	1.84	
						RPD = 11.54	
15 Ronnel							
1	12.907	12.907	0.000	64024670H	2.00	2.09	
2	14.328	14.328	0.000	56997736H	2.00	2.02	
						RPD = 3.46	
16 Chlorpyrifos							
1	13.619	13.619	0.000	50152004H	2.00	2.14	
2	15.610	15.610	0.000	44401223H	2.00	2.02	
						RPD = 6.05	
17 Fenthion							
1	13.829	13.829	0.000	62209091H	2.00	2.07	
2	15.879	15.879	0.000	60594538H	2.00	2.04	
						RPD = 1.57	
18 Trichloronate							
1	13.902	13.902	0.000	49690173H	2.00	2.08	
2	15.747	15.747	0.000	46882248H	2.00	2.02	
						RPD = 2.91	
19 Methyl parathion							
1	14.635	14.635	0.000	53875503H	2.00	2.07	
2	14.270	14.270	0.000	63773270H	2.00	1.93	
						RPD = 6.69	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	14.981	14.981	0.000	39497117H	2.00	1.98	
2	15.491	15.491	0.000	43012991H	2.00	2.04	
						RPD = 3.15	
21 Tokuthion							
1	16.055	16.055	0.000	36702428H	2.00	1.94	
2	18.406	18.406	0.000	44012243H	2.00	2.00	
						RPD = 3.18	
22 Ethyl Parathion							
1	16.211	16.211	0.000	48722188H	2.00	1.99	
2	15.808	15.808	0.000	56715335H	2.00	2.04	
						RPD = 2.69	
23 Stirophos							
1	17.224	17.224	0.000	36036821H	2.00	1.99	
2	18.210	18.210	0.000	38952764H	2.00	2.06	
						RPD = 3.39	
24 Bolstar							
1	18.304	18.304	0.000	42719277H	2.00	2.03	
2	20.896	20.896	0.000	47731142H	2.00	2.02	
						RPD = 0.34	
25 Fensulfothion							
1	21.195	21.195	0.000	47054210H	2.00	1.89	
2	20.658	20.658	0.000	47141766H	2.00	1.96	
						RPD = 3.51	
26 EPN							
1	22.255	22.255	0.000	48230179H	2.00	2.04	
2	22.963	22.963	0.000	53322010H	2.00	2.02	
						RPD = 1.04	
27 Famphur							
1	22.500	22.500	0.000	54910514H	2.00	2.03	
2	21.586	21.586	0.000	54128508H	2.00	2.05	
						RPD = 1.07	
28 Azinphos-methyl							
1	22.894	22.894	0.000	44211236H	2.00	1.95	
2	24.147	24.147	0.000	50066621H	2.00	1.98	
						RPD = 1.38	
29 Coumaphos							
1	25.547	25.547	0.000	51745156H	2.00	2.14	
2	25.392	25.392	0.000	55012734H	2.00	1.97	
						RPD = 8.16	
S 30 Demeton, Total							
1					2.00	2.14	
2					2.00	1.99	
						RPD = 7.44	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCOPPLEVEL4_00004 Amount Added: 1.00 Units: mL

Report Date: 23-Aug-2018 10:54:40 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082301.D				
Injection Date:	23-Aug-2018 06:24:11	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	CCVRT			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

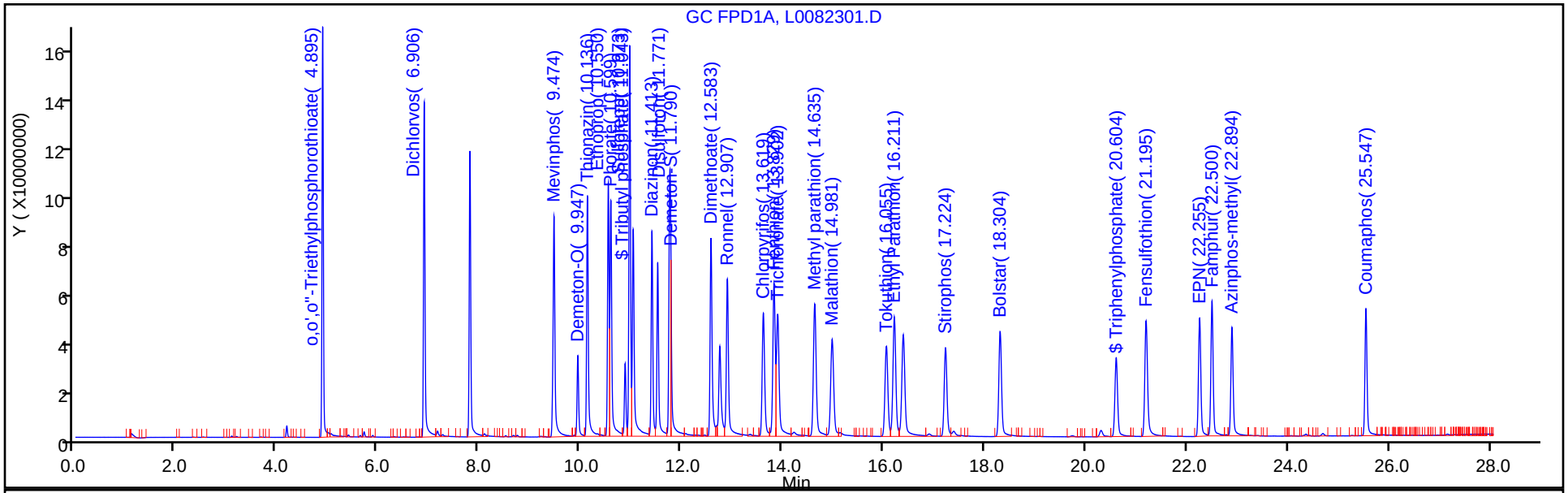

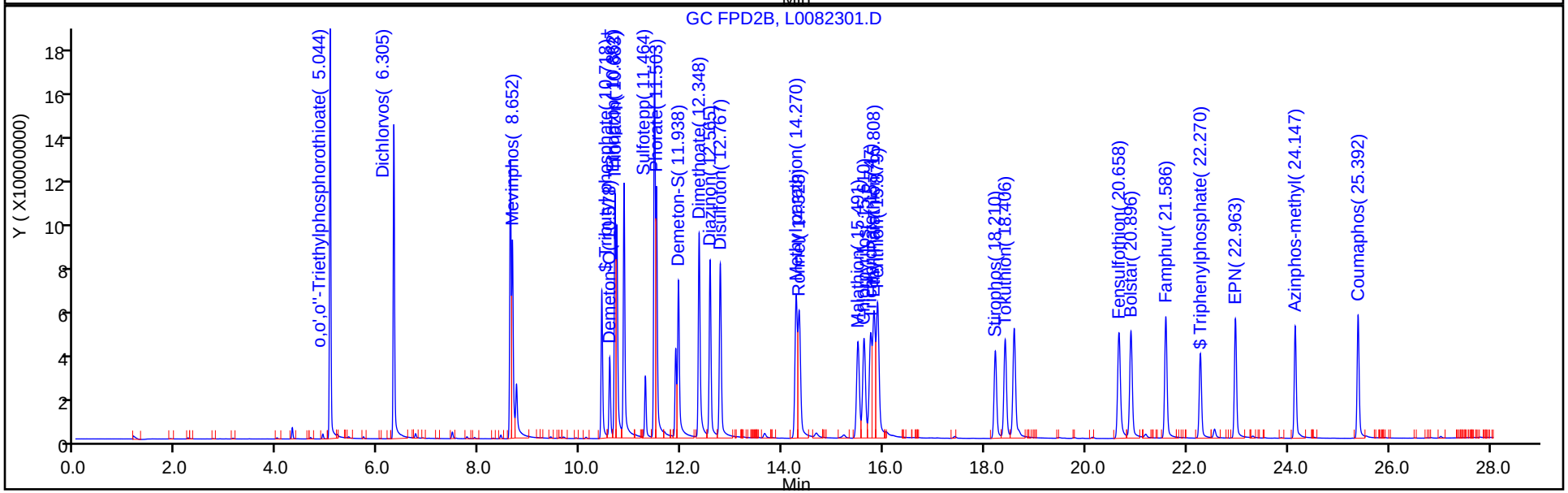

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Lab Sample ID: CCV 180-254752/7 Calibration Date: 08/23/2018 09:42

Instrument ID: CHGC5 Calib Start Date: 03/21/2018 08:43

GC Column: RTX-OPP1 ID: 0.53(mm) Calib End Date: 03/21/2018 10:55

Lab File ID: L0082307.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
O,O,O-Triethyl phosphorothioate	Ave	78289401	86621688		2.21	2.00	10.6	20.0
Dichlorvos	Ave	66871856	75687861		2.26	2.00	13.2	20.0
Mevinphos	Ave	50113953	48585900		1.94	2.00	-3.0	20.0
Demeton-O	Ave	49483227	50250844		0.691	0.680	1.6	20.0
Thionazin	Ave	53314169	51977724		1.95	2.00	-2.5	20.0
Mocap	Ave	57782696	54842823		1.90	2.00	-5.1	20.0
Phorate	Ave	53959369	50412402		1.87	2.00	-6.6	20.0
Sulfotepp	Ave	81113156	83977484		2.07	2.00	3.5	20.0
Diazinon	Ave	42410446	43348266		2.04	2.00	2.2	20.0
Disulfoton	Ave	44187823	58184160		2.63	2.00	31.7*	20.0
Demeton-S	Ave	48716002	52062261		1.41	1.32	6.9	20.0
Dimethoate	Ave	39181173	43337656		2.21	2.00	10.6	20.0
Ronnel	Ave	30572605	33899005		2.22	2.00	10.9	20.0
Chlorpyrifos	Ave	23414497	26652055		2.28	2.00	13.8	20.0
Fenthion	Ave	30049217	32558316		2.17	2.00	8.3	20.0
Trichloronate	Ave	23871279	26237711		2.20	2.00	9.9	20.0
Methyl parathion	Ave	26046259	28790375		2.21	2.00	10.5	20.0
Malathion	Ave	19987613	20803234		2.08	2.00	4.1	20.0
Tokuthion	Ave	18941636	19639378		2.07	2.00	3.7	20.0
Parathion	Ave	24539290	26124229		2.13	2.00	6.5	20.0
Stirophos	Ave	18124587	19101668		2.11	2.00	5.4	20.0
Bolstar	Ave	21039533	22609452		2.15	2.00	7.5	20.0
Fensulfothion	Ave	24924142	25821899		2.07	2.00	3.6	20.0
EPN	Ave	23628924	25250721		2.14	2.00	6.9	20.0
Famphur	Ave	27106054	28472190		2.10	2.00	5.0	20.0
Azinphos-methyl	Ave	22631409	23992514		2.12	2.00	6.0	20.0
Coumaphos	Ave	24206533	27618910		2.28	2.00	14.1	20.0
Tributyl phosphate	Ave	45496937	44171873		1.94	2.00	-2.9	20.0
Triphenylphosphate	Ave	16873704	16963682		2.01	2.00	0.5	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Lab Sample ID: CCV 180-254752/7 Calibration Date: 08/23/2018 09:42

Instrument ID: CHGC5 Calib Start Date: 03/21/2018 08:43

GC Column: RTX-OPP1 ID: 0.53(mm) Calib End Date: 03/21/2018 10:55

Lab File ID: L0082307.D

Analyte	RT	RT WINDOW	
		FROM	TO
O,O,O-Triethyl phosphorothioate	4.90	4.87	4.93
Dichlorvos	6.91	6.88	6.94
Mevinphos	9.48	9.44	9.50
Demeton-O	9.95	9.92	9.98
Thionazin	10.14	10.11	10.17
Mocap	10.55	10.52	10.58
Phorate	10.60	10.57	10.63
Sulfotepp	10.97	10.94	11.00
Diazinon	11.42	11.38	11.44
Disulfoton	11.77	11.74	11.80
Demeton-S	11.79	11.77	11.83
Dimethoate	12.58	12.55	12.61
Ronnel	12.91	12.88	12.94
Chlorpyrifos	13.62	13.59	13.65
Fenthion	13.83	13.80	13.86
Trichloronate	13.91	13.87	13.93
Methyl parathion	14.64	14.61	14.67
Malathion	14.98	14.95	15.01
Tokuthion	16.06	16.03	16.09
Parathion	16.21	16.18	16.24
Stirophos	17.22	17.19	17.25
Bolstar	18.31	18.27	18.33
Fensulfothion	21.19	21.17	21.23
EPN	22.26	22.23	22.29
Famphur	22.50	22.47	22.53
Azinphos-methyl	22.89	22.86	22.92
Coumaphos	25.55	25.52	25.58
Tributyl phosphate	11.04	11.01	11.07
Triphenylphosphate	20.60	20.57	20.63

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082307.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 23-Aug-2018 09:42:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0023306-007
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 23-Aug-2018 10:54:25 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Aug-2018 10:52:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.044	11.043	0.001	88343745H	2.00	1.94	
2	10.719	10.718	0.001	100684611H	2.00	1.88	
						RPD = 3.43	
$ 2 Triphenylphosphate							
1	20.604	20.604	0.000	33927364H	2.00	2.01	
2	22.271	22.270	0.001	39955447H	2.00	2.10	
						RPD = 4.56	
3 o,o',o''-Triethylphosphorothioate							
1	4.897	4.895	0.002	173243375H	2.00	2.21	
2	5.046	5.044	0.002	190781106H	2.00	2.14	
						RPD = 3.39	
4 Dichlorvos							
1	6.907	6.906	0.001	151375722H	2.00	2.26	
2	6.307	6.305	0.002	153703888H	2.00	2.16	
						RPD = 4.91	
5 Mevinphos							
1	9.476	9.474	0.002	97171799H	2.00	1.94	
2	8.654	8.652	0.002	95109983H	2.00	1.90	
						RPD = 2.26	
6 Demeton-O							
1	9.948	9.947	0.001	34170574H	0.6800	0.6905	
2	10.580	10.578	0.002	37743450H	0.6800	0.6937	
						RPD = 0.46	
7 Thionazin							
1	10.137	10.136	0.001	103955447H	2.00	1.95	
2	10.685	10.683	0.002	116018024H	2.00	1.89	
						RPD = 3.16	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.549	10.550	-0.001	109685646H	2.00	1.90	
2	10.863	10.862	0.001	119255045H	2.00	2.01	
						RPD = 5.82	
9 Phorate							
1	10.600	10.599	0.001	100824803H	2.00	1.87	
2	11.504	11.503	0.001	117220879H	2.00	2.00	
						RPD = 6.71	
10 Sulfotepp							
1	10.974	10.973	0.001	167954968H	2.00	2.07	
2	11.466	11.464	0.002	180809122H	2.00	1.99	
						RPD = 3.75	
11 Diazinon							
1	11.415	11.413	0.002	86696532H	2.00	2.04	
2	12.568	12.565	0.003	83870706H	2.00	2.07	
						RPD = 1.40	
12 Disulfoton							M
1	11.769	11.771	-0.002	116368319H	2.00	2.63	
2	12.769	12.767	0.002	82441530H	2.00	2.03	
						RPD = 25.77	
13 Demeton-S							M
1	11.793	11.798	-0.005	68722185H	1.32	1.41	
2	11.940	11.946	-0.006	74527998H	1.32	1.40	
						RPD = 0.63	
14 Dimethoate							
1	12.584	12.583	0.001	86675312H	2.00	2.21	
2	12.350	12.348	0.002	98710578H	2.00	1.98	
						RPD = 11.13	
15 Ronnel							
1	12.909	12.907	0.002	67798010H	2.00	2.22	
2	14.331	14.328	0.003	59736814H	2.00	2.12	
						RPD = 4.49	
16 Chlorpyrifos							
1	13.620	13.619	0.001	53304110H	2.00	2.28	
2	15.614	15.610	0.004	46330320H	2.00	2.10	
						RPD = 7.89	
17 Fenthion							
1	13.834	13.829	0.005	65116632H	2.00	2.17	
2	15.884	15.879	0.005	63790797H	2.00	2.15	
						RPD = 1.00	
18 Trichloronate							
1	13.905	13.902	0.003	52475422H	2.00	2.20	
2	15.747	15.747	0.000	49582742H	2.00	2.14	
						RPD = 2.76	
19 Methyl parathion							
1	14.639	14.635	0.004	57580750H	2.00	2.21	
2	14.273	14.270	0.003	67421868H	2.00	2.05	
						RPD = 7.78	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	14.983	14.981	0.002	41606468H	2.00	2.08	
2	15.497	15.491	0.006	44798107H	2.00	2.12	
						RPD = 2.02	
21 Tokuthion							
1	16.057	16.055	0.002	39278756H	2.00	2.07	
2	18.409	18.406	0.003	45503021H	2.00	2.07	
						RPD = 0.27	
22 Ethyl Parathion							
1	16.213	16.211	0.002	52248457H	2.00	2.13	
2	15.814	15.808	0.006	59280363H	2.00	2.13	
						RPD = 0.13	
23 Stirophos							
1	17.224	17.224	0.000	38203335H	2.00	2.11	
2	18.212	18.210	0.002	41588708H	2.00	2.20	
						RPD = 4.10	
24 Bolstar							
1	18.306	18.304	0.002	45218904H	2.00	2.15	
2	20.898	20.896	0.002	50162264H	2.00	2.13	
						RPD = 1.06	
25 Fensulfothion							
1	21.194	21.195	-0.001	51643798H	2.00	2.07	
2	20.660	20.658	0.002	50812771H	2.00	2.11	
						RPD = 1.71	
26 EPN							
1	22.255	22.255	0.000	50501441H	2.00	2.14	
2	22.965	22.963	0.002	55635974H	2.00	2.11	
						RPD = 1.39	
27 Famphur							
1	22.499	22.500	-0.001	56944379H	2.00	2.10	
2	21.589	21.586	0.003	56959264H	2.00	2.15	
						RPD = 2.53	
28 Azinphos-methyl							
1	22.894	22.894	0.000	47985028H	2.00	2.12	
2	24.149	24.147	0.002	54038878H	2.00	2.14	
						RPD = 0.83	
29 Coumaphos							
1	25.548	25.547	0.001	55237820H	2.00	2.28	
2	25.394	25.392	0.002	58832550H	2.00	2.11	
						RPD = 7.98	
S 30 Demeton, Total							
1					2.00	2.10	
2					2.00	2.10	
						RPD = 0.27	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCOPPLEVEL4_00004 Amount Added: 1.00 Units: mL

Report Date: 23-Aug-2018 10:54:25 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082307.D				
Injection Date:	23-Aug-2018 09:42:30	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

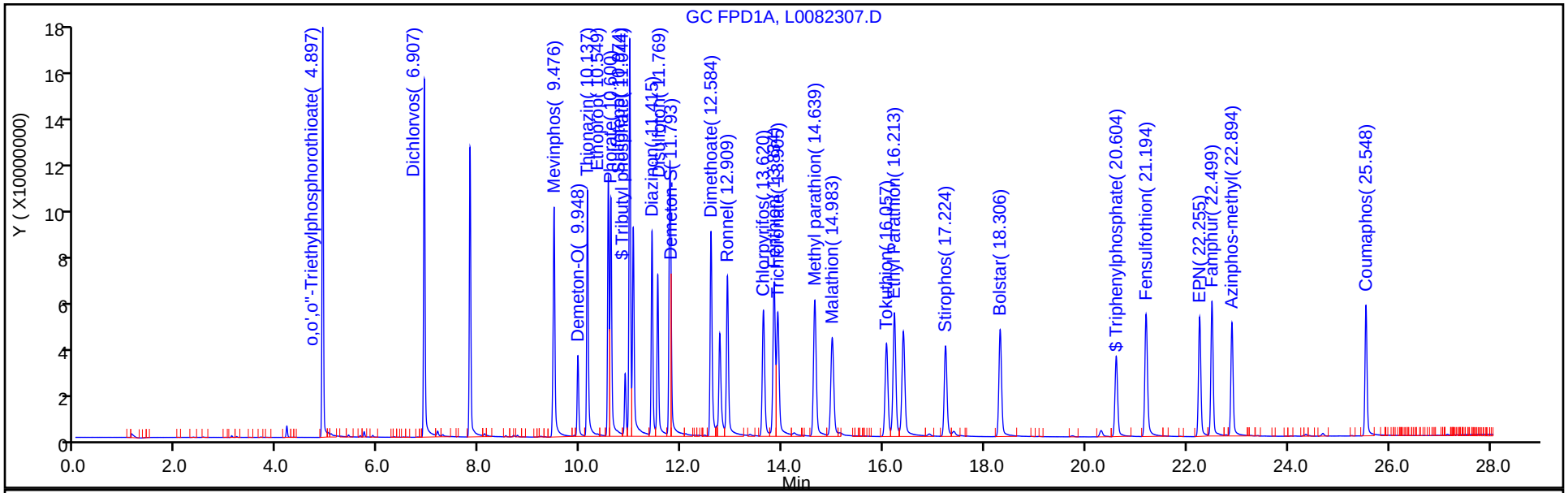

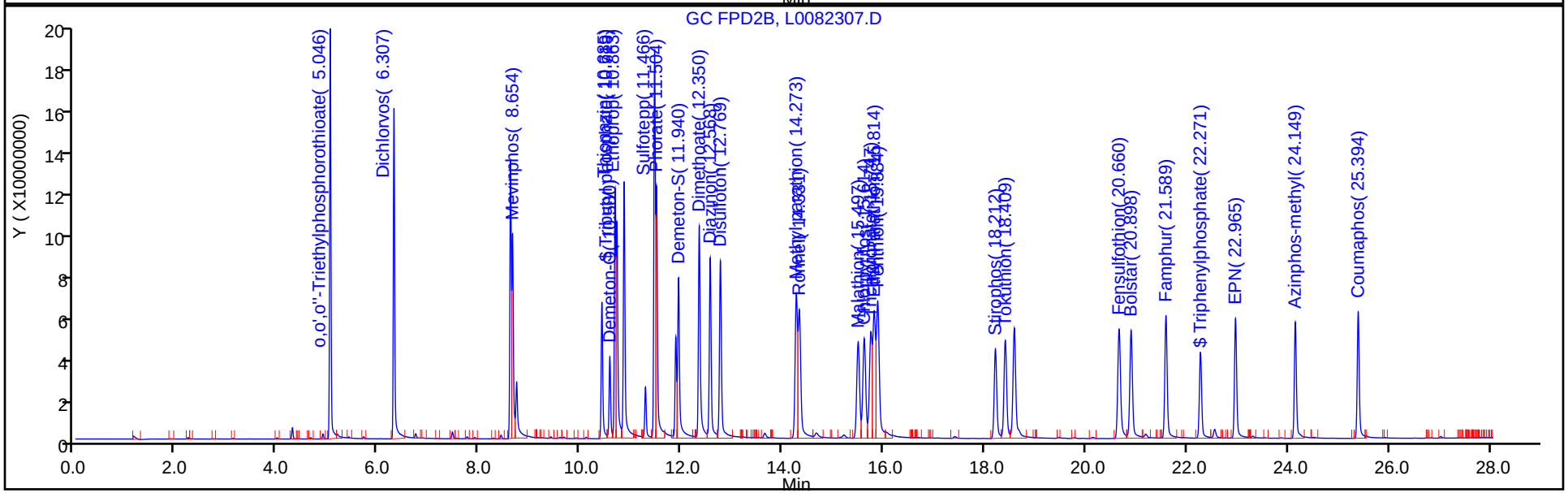

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Lab Sample ID: CCV 180-254752/7 Calibration Date: 08/23/2018 09:42

Instrument ID: CHGC5 Calib Start Date: 03/21/2018 08:43

GC Column: RTX-OPP2 ID: 0.53(mm) Calib End Date: 03/21/2018 10:55

Lab File ID: L0082307.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
O,O,O-Triethyl phosphorothioate	Ave	89183630	95390553		2.14	2.00	7.0	20.0
Dichlorvos	Ave	71316242	76851944		2.16	2.00	7.8	20.0
Mevinphos	Ave	50171782	47554992		1.90	2.00	-5.2	20.0
Demeton-O	Ave	54407666	55505074		0.694	0.680	2.0	20.0
Thionazin	Ave	61409613	58009012		1.89	2.00	-5.5	20.0
Mocap	Ave	59272201	59627523		2.01	2.00	0.6	20.0
Sulfotepp	Ave	90661250	90404561		1.99	2.00	-0.3	20.0
Phorate	Ave	58661425	58610440		2.00	2.00	-0.0	20.0
Demeton-S	Ave	53165777	56460605		1.40	1.32	6.2	20.0
Dimethoate	Ave	49879018	49355289		1.98	2.00	-1.0	20.0
Diazinon	Ave	40458009	41935353		2.07	2.00	3.7	20.0
Disulfoton	Ave	40565383	41220765		2.03	2.00	1.6	20.0
Methyl parathion	Ave	32966003	33710934		2.05	2.00	2.3	20.0
Ronnel	Ave	28174794	29868407		2.12	2.00	6.0	20.0
Malathion	Ave	21091247	22399054		2.12	2.00	6.2	20.0
Chlorpyrifos	Ave	22021860	23165160		2.10	2.00	5.2	20.0
Trichloronate	Ave	23187325	24791371		2.14	2.00	6.9	20.0
Parathion	Ave	27806550	29640182		2.13	2.00	6.6	20.0
Fenthion	Ave	29731805	31895399		2.15	2.00	7.3	20.0
Stirophos	Ave	18937639	20794354		2.20	2.00	9.8	20.0
Tokuthion	Ave	22002186	22751511		2.07	2.00	3.4	20.0
Fensulfothion	Ave	24108477	25406386		2.11	2.00	5.4	20.0
Bolstar	Ave	23587243	25081132		2.13	2.00	6.3	20.0
Famphur	Ave	26436726	28479632		2.15	2.00	7.7	20.0
EPN	Ave	26396281	27817987		2.11	2.00	5.4	20.0
Azinphos-methyl	Ave	25277133	27019439		2.14	2.00	6.9	20.0
Coumaphos	Ave	27924835	29416275		2.11	2.00	5.3	20.0
Tributyl phosphate	Ave	53661746	50342306		1.88	2.00	-6.2	20.0
Triphenylphosphate	Ave	18986089	19977724		2.10	2.00	5.2	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Lab Sample ID: CCV 180-254752/7 Calibration Date: 08/23/2018 09:42

Instrument ID: CHGC5 Calib Start Date: 03/21/2018 08:43

GC Column: RTX-OPP2 ID: 0.53(mm) Calib End Date: 03/21/2018 10:55

Lab File ID: L0082307.D

Analyte	RT	RT WINDOW	
		FROM	TO
O,O,O-Triethyl phosphorothioate	5.05	5.01	5.07
Dichlorvos	6.31	6.28	6.34
Mevinphos	8.65	8.62	8.68
Demeton-O	10.58	10.55	10.61
Thionazin	10.69	10.65	10.71
Mocap	10.86	10.83	10.89
Sulfotepp	11.47	11.43	11.49
Phorate	11.50	11.47	11.53
Demeton-S	11.94	11.92	11.98
Dimethoate	12.35	12.32	12.38
Diazinon	12.57	12.54	12.60
Disulfoton	12.77	12.74	12.80
Methyl parathion	14.27	14.24	14.30
Ronnel	14.33	14.30	14.36
Malathion	15.50	15.46	15.52
Chlorpyrifos	15.61	15.58	15.64
Trichloronate	15.75	15.72	15.78
Parathion	15.81	15.78	15.84
Fenthion	15.88	15.85	15.91
Stirophos	18.21	18.18	18.24
Tokuthion	18.41	18.38	18.44
Fensulfothion	20.66	20.63	20.69
Bolstar	20.90	20.87	20.93
Famphur	21.59	21.56	21.62
EPN	22.97	22.93	22.99
Azinphos-methyl	24.15	24.12	24.18
Coumaphos	25.39	25.36	25.42
Tributyl phosphate	10.72	10.69	10.75
Triphenylphosphate	22.27	22.24	22.30

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082307.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 23-Aug-2018 09:42:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0023306-007
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 23-Aug-2018 10:54:25 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Aug-2018 10:52:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.044	11.043	0.001	88343745H	2.00	1.94	
2	10.719	10.718	0.001	100684611H	2.00	1.88	
						RPD = 3.43	
$ 2 Triphenylphosphate							
1	20.604	20.604	0.000	33927364H	2.00	2.01	
2	22.271	22.270	0.001	39955447H	2.00	2.10	
						RPD = 4.56	
3 o,o',o''-Triethylphosphorothioate							
1	4.897	4.895	0.002	173243375H	2.00	2.21	
2	5.046	5.044	0.002	190781106H	2.00	2.14	
						RPD = 3.39	
4 Dichlorvos							
1	6.907	6.906	0.001	151375722H	2.00	2.26	
2	6.307	6.305	0.002	153703888H	2.00	2.16	
						RPD = 4.91	
5 Mevinphos							
1	9.476	9.474	0.002	97171799H	2.00	1.94	
2	8.654	8.652	0.002	95109983H	2.00	1.90	
						RPD = 2.26	
6 Demeton-O							
1	9.948	9.947	0.001	34170574H	0.6800	0.6905	
2	10.580	10.578	0.002	37743450H	0.6800	0.6937	
						RPD = 0.46	
7 Thionazin							
1	10.137	10.136	0.001	103955447H	2.00	1.95	
2	10.685	10.683	0.002	116018024H	2.00	1.89	
						RPD = 3.16	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.549	10.550	-0.001	109685646H	2.00	1.90	
2	10.863	10.862	0.001	119255045H	2.00	2.01	
						RPD = 5.82	
9 Phorate							
1	10.600	10.599	0.001	100824803H	2.00	1.87	
2	11.504	11.503	0.001	117220879H	2.00	2.00	
						RPD = 6.71	
10 Sulfotepp							
1	10.974	10.973	0.001	167954968H	2.00	2.07	
2	11.466	11.464	0.002	180809122H	2.00	1.99	
						RPD = 3.75	
11 Diazinon							
1	11.415	11.413	0.002	86696532H	2.00	2.04	
2	12.568	12.565	0.003	83870706H	2.00	2.07	
						RPD = 1.40	
12 Disulfoton							M
1	11.769	11.771	-0.002	116368319H	2.00	2.63	
2	12.769	12.767	0.002	82441530H	2.00	2.03	
						RPD = 25.77	
13 Demeton-S							M
1	11.793	11.798	-0.005	68722185H	1.32	1.41	
2	11.940	11.946	-0.006	74527998H	1.32	1.40	
						RPD = 0.63	
14 Dimethoate							
1	12.584	12.583	0.001	86675312H	2.00	2.21	
2	12.350	12.348	0.002	98710578H	2.00	1.98	
						RPD = 11.13	
15 Ronnel							
1	12.909	12.907	0.002	67798010H	2.00	2.22	
2	14.331	14.328	0.003	59736814H	2.00	2.12	
						RPD = 4.49	
16 Chlorpyrifos							
1	13.620	13.619	0.001	53304110H	2.00	2.28	
2	15.614	15.610	0.004	46330320H	2.00	2.10	
						RPD = 7.89	
17 Fenthion							
1	13.834	13.829	0.005	65116632H	2.00	2.17	
2	15.884	15.879	0.005	63790797H	2.00	2.15	
						RPD = 1.00	
18 Trichloronate							
1	13.905	13.902	0.003	52475422H	2.00	2.20	
2	15.747	15.747	0.000	49582742H	2.00	2.14	
						RPD = 2.76	
19 Methyl parathion							
1	14.639	14.635	0.004	57580750H	2.00	2.21	
2	14.273	14.270	0.003	67421868H	2.00	2.05	
						RPD = 7.78	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	14.983	14.981	0.002	41606468H	2.00	2.08	
2	15.497	15.491	0.006	44798107H	2.00	2.12	
						RPD = 2.02	
21 Tokuthion							
1	16.057	16.055	0.002	39278756H	2.00	2.07	
2	18.409	18.406	0.003	45503021H	2.00	2.07	
						RPD = 0.27	
22 Ethyl Parathion							
1	16.213	16.211	0.002	52248457H	2.00	2.13	
2	15.814	15.808	0.006	59280363H	2.00	2.13	
						RPD = 0.13	
23 Stirophos							
1	17.224	17.224	0.000	38203335H	2.00	2.11	
2	18.212	18.210	0.002	41588708H	2.00	2.20	
						RPD = 4.10	
24 Bolstar							
1	18.306	18.304	0.002	45218904H	2.00	2.15	
2	20.898	20.896	0.002	50162264H	2.00	2.13	
						RPD = 1.06	
25 Fensulfothion							
1	21.194	21.195	-0.001	51643798H	2.00	2.07	
2	20.660	20.658	0.002	50812771H	2.00	2.11	
						RPD = 1.71	
26 EPN							
1	22.255	22.255	0.000	50501441H	2.00	2.14	
2	22.965	22.963	0.002	55635974H	2.00	2.11	
						RPD = 1.39	
27 Famphur							
1	22.499	22.500	-0.001	56944379H	2.00	2.10	
2	21.589	21.586	0.003	56959264H	2.00	2.15	
						RPD = 2.53	
28 Azinphos-methyl							
1	22.894	22.894	0.000	47985028H	2.00	2.12	
2	24.149	24.147	0.002	54038878H	2.00	2.14	
						RPD = 0.83	
29 Coumaphos							
1	25.548	25.547	0.001	55237820H	2.00	2.28	
2	25.394	25.392	0.002	58832550H	2.00	2.11	
						RPD = 7.98	
S 30 Demeton, Total							
1					2.00	2.10	
2					2.00	2.10	
						RPD = 0.27	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCOPPLEVEL4_00004 Amount Added: 1.00 Units: mL

Report Date: 23-Aug-2018 10:54:26 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082307.D				
Injection Date:	23-Aug-2018 09:42:30	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

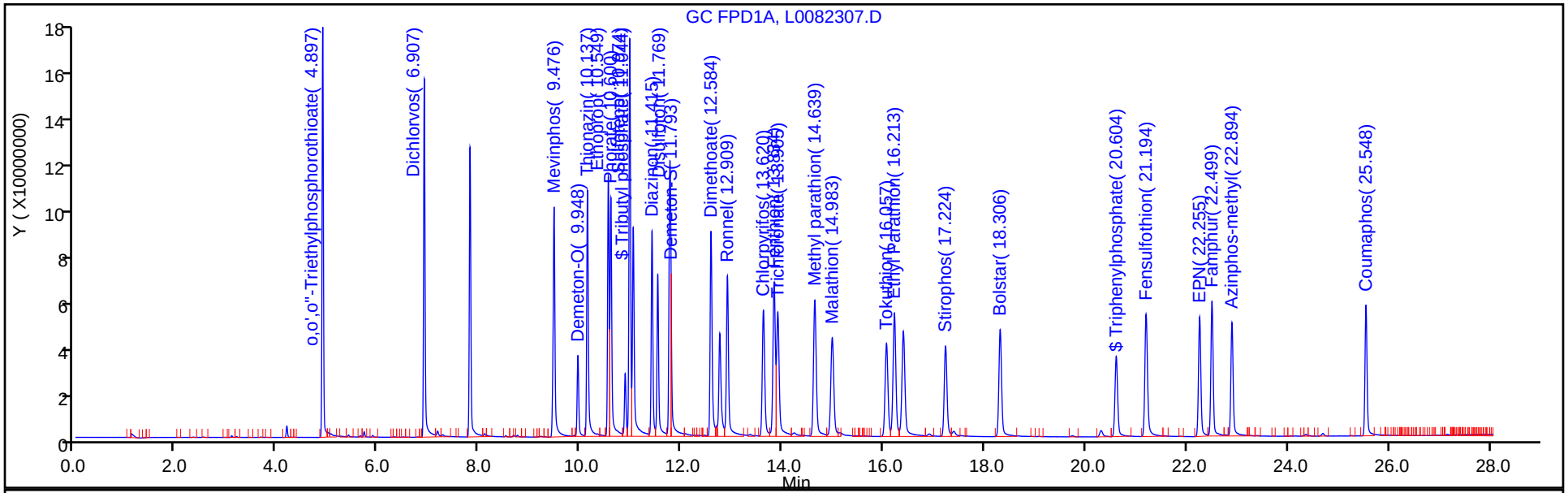

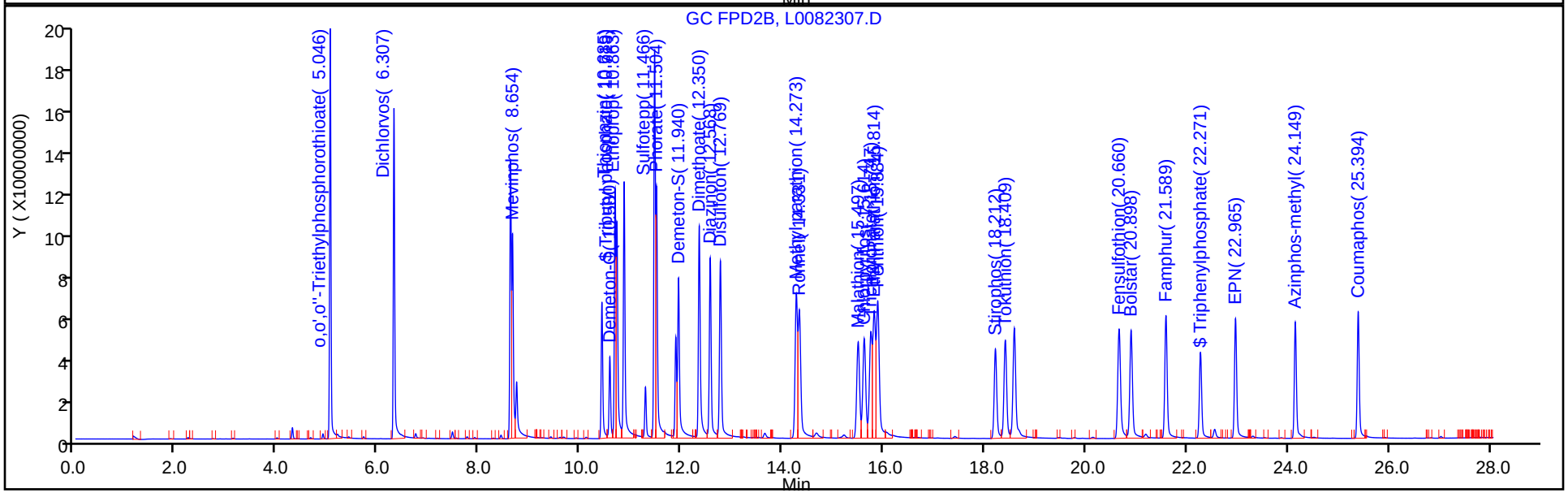

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 460-162840-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 180-254675/1-A
Matrix: Solid
Lab File ID: L0082302.D
Analysis Method: EPA 8141B
Date Collected:
Extraction Method: 3541
Date Extracted: 08/22/2018 11:30
Sample wt/vol: 15.0(g)
Date Analyzed: 08/23/2018 06:57
Con. Extract Vol.: 2.5(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: RTX-OPP1 ID: 0.53(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 254752
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-38-2	Parathion	4.1	U	33	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
126-73-8	Tributyl phosphate	81		20-150
115-86-6	Triphenylphosphate	87		34-150

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082302.D
Lims ID: MB 180-254675/1-A
Client ID:
Sample Type: MB
Inject. Date: 23-Aug-2018 06:57:19 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0023306-002
Operator ID: 402331 Instrument ID: CHGC5

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 23-Aug-2018 10:54:25 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Aug-2018 08:33:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.043	11.043	0.000	73674353H	2.00	1.62	
2	10.719	10.718	0.001	76462605H	2.00	1.42	
						RPD = 12.77	
$ 2 Triphenylphosphate							
1	20.601	20.604	-0.003	29291416H	2.00	1.74	
2	22.268	22.270	-0.002	34975429H	2.00	1.84	
						RPD = 5.94	
3 o,o',o''-Triethylphosphorothioate							
1		4.895				ND	
2		5.044					
4 Dichlorvos							
1		6.906				ND	
2		6.305					
5 Mevinphos							
1		9.474				ND	
2		8.652					
6 Demeton-O							
1		9.947				ND	
2		10.578					
7 Thionazin							
1		10.136				ND	
2		10.683					
8 Ethoprop							
1		10.550				ND	
2		10.862					
9 Phorate							
1		10.599				ND	
2		11.503					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
10 Sulfotepp							
1		10.973				ND	
2		11.464					
11 Diazinon							
1		11.413				ND	
2		12.565					
12 Disulfoton							
1		11.771				ND	
2		12.767					
13 Demeton-S							
1		11.798				ND	
2		11.946					
14 Dimethoate							U
1		12.583				ND	
2		12.348					
15 Ronnel							
1		12.907				ND	
2		14.328					
16 Chlorpyrifos							
1		13.619				ND	
2		15.610					
17 Fenthion							
1		13.829				ND	
2		15.879					
18 Trichloronate							
1		13.902				ND	
2		15.747					
19 Methyl parathion							
1		14.635				ND	
2		14.270					
20 Malathion							
1		14.981				ND	
2		15.491					
21 Tokuthion							
1		16.055				ND	
2		18.406					
22 Ethyl Parathion							
1		16.211				ND	
2		15.808					
23 Stirophos							
1		17.224				ND	
2		18.210					
24 Bolstar							
1		18.304				ND	
2		20.896					
25 Fensulfothion							
1		21.195				ND	
2		20.658					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
26 EPN							
1		22.255				ND	
2		22.963					
27 Famphur							
1		22.500				ND	
2		21.586					
28 Azinphos-methyl							
1		22.894				ND	
2		24.147					
29 Coumaphos							
1		25.547				ND	
2		25.392					
S 30 Demeton, Total							
1		10.230				ND	
2		10.611					

QC Flag Legend

Review Flags

U - Marked Undetected

Report Date: 23-Aug-2018 10:54:37 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082302.D				
Injection Date:	23-Aug-2018 06:57:19	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	MB 180-254675/1-A			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

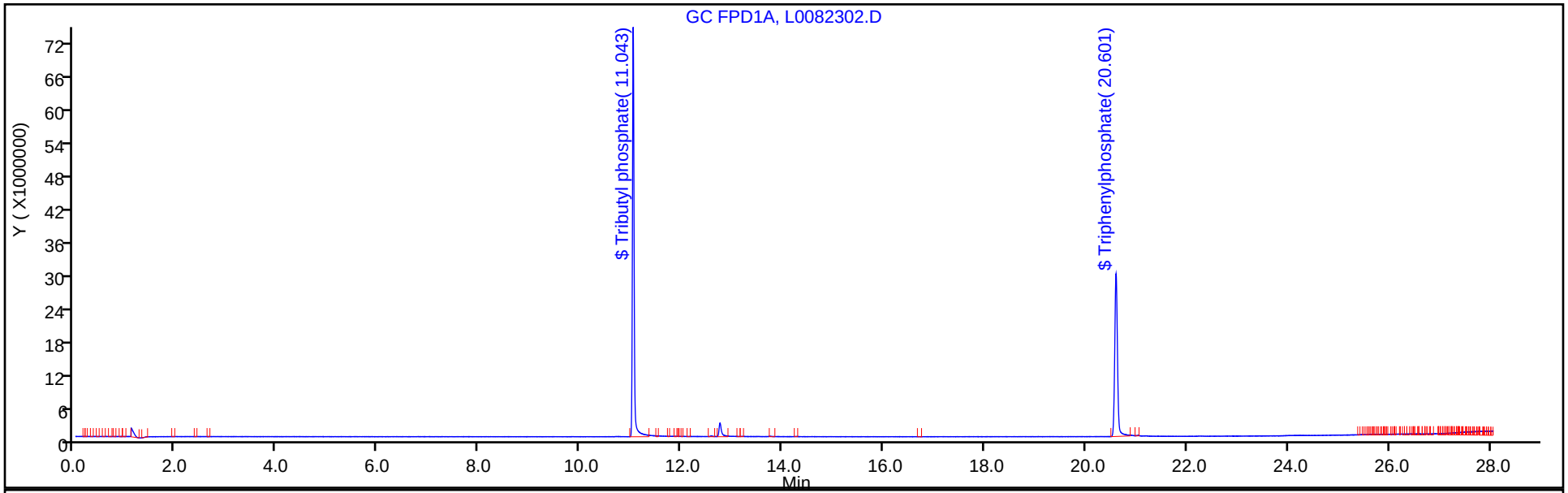

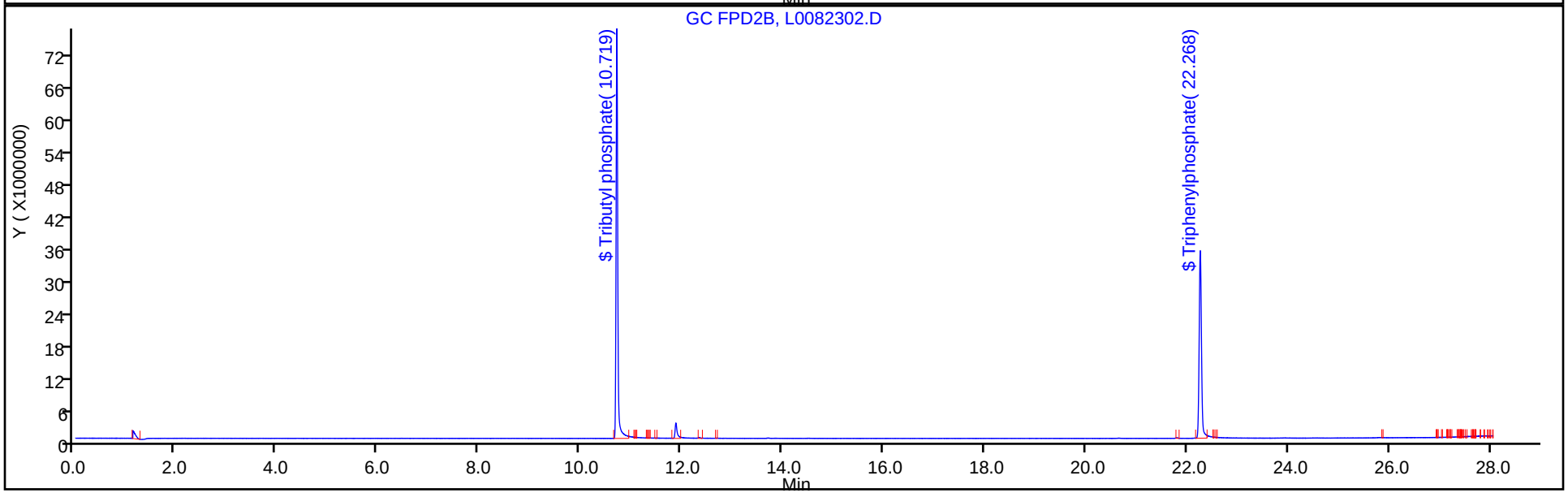

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 180-254675/1-A

Matrix: Solid Lab File ID: L0082302.D

Analysis Method: EPA 8141B Date Collected:

Extraction Method: 3541 Date Extracted: 08/22/2018 11:30

Sample wt/vol: 15.0(g) Date Analyzed: 08/23/2018 06:57

Con. Extract Vol.: 2.5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-OPP2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 254752 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
126-73-8	Tributyl phosphate	71		20-150
115-86-6	Triphenylphosphate	92		34-150

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082302.D
Lims ID: MB 180-254675/1-A
Client ID:
Sample Type: MB
Inject. Date: 23-Aug-2018 06:57:19 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0023306-002
Operator ID: 402331 Instrument ID: CHGC5

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 23-Aug-2018 10:54:25 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Aug-2018 08:33:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.043	11.043	0.000	73674353H	2.00	1.62	
2	10.719	10.718	0.001	76462605H	2.00	1.42	
						RPD = 12.77	
$ 2 Triphenylphosphate							
1	20.601	20.604	-0.003	29291416H	2.00	1.74	
2	22.268	22.270	-0.002	34975429H	2.00	1.84	
						RPD = 5.94	
3 o,o',o''-Triethylphosphorothioate							
1		4.895				ND	
2		5.044					
4 Dichlorvos							
1		6.906				ND	
2		6.305					
5 Mevinphos							
1		9.474				ND	
2		8.652					
6 Demeton-O							
1		9.947				ND	
2		10.578					
7 Thionazin							
1		10.136				ND	
2		10.683					
8 Ethoprop							
1		10.550				ND	
2		10.862					
9 Phorate							
1		10.599				ND	
2		11.503					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
10 Sulfotepp							
1		10.973				ND	
2		11.464					
11 Diazinon							
1		11.413				ND	
2		12.565					
12 Disulfoton							
1		11.771				ND	
2		12.767					
13 Demeton-S							
1		11.798				ND	
2		11.946					
14 Dimethoate							U
1		12.583				ND	
2		12.348					
15 Ronnel							
1		12.907				ND	
2		14.328					
16 Chlorpyrifos							
1		13.619				ND	
2		15.610					
17 Fenthion							
1		13.829				ND	
2		15.879					
18 Trichloronate							
1		13.902				ND	
2		15.747					
19 Methyl parathion							
1		14.635				ND	
2		14.270					
20 Malathion							
1		14.981				ND	
2		15.491					
21 Tokuthion							
1		16.055				ND	
2		18.406					
22 Ethyl Parathion							
1		16.211				ND	
2		15.808					
23 Stirophos							
1		17.224				ND	
2		18.210					
24 Bolstar							
1		18.304				ND	
2		20.896					
25 Fensulfothion							
1		21.195				ND	
2		20.658					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
26 EPN							
1		22.255				ND	
2		22.963					
27 Famphur							
1		22.500				ND	
2		21.586					
28 Azinphos-methyl							
1		22.894				ND	
2		24.147					
29 Coumaphos							
1		25.547				ND	
2		25.392					
S 30 Demeton, Total							
1		10.230				ND	
2		10.611					

QC Flag Legend

Review Flags

U - Marked Undetected

Report Date: 23-Aug-2018 10:54:37 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082302.D				
Injection Date:	23-Aug-2018 06:57:19	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	MB 180-254675/1-A			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

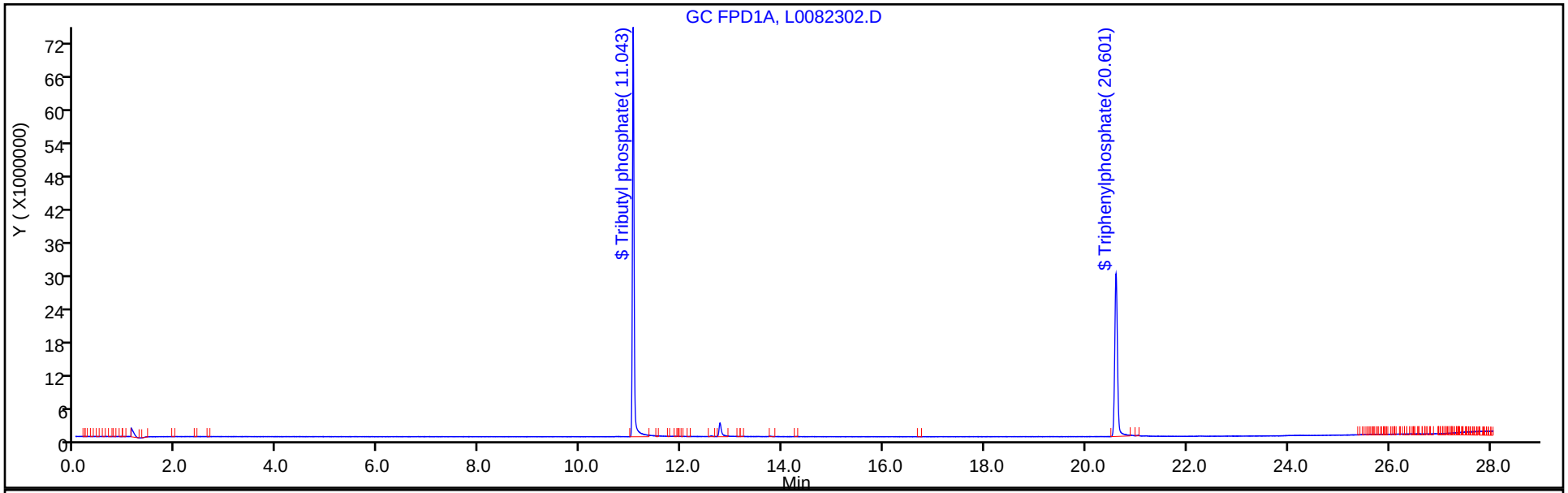

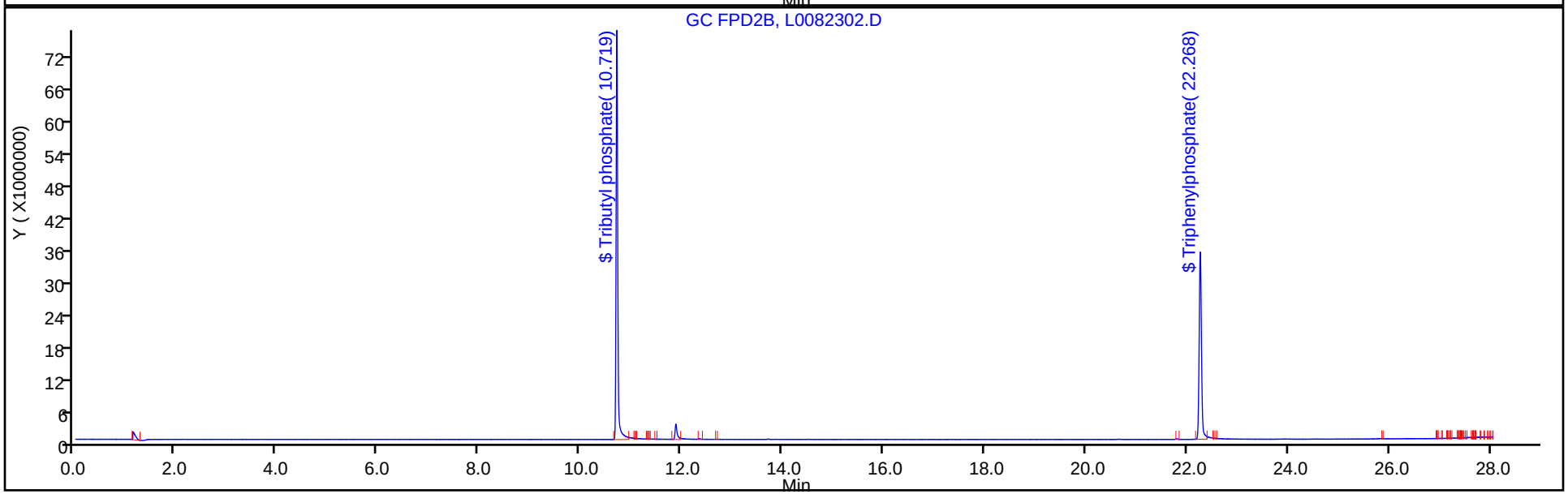

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 460-162840-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 180-254675/2-A
Matrix: Solid
Lab File ID: L0082306.D
Analysis Method: EPA 8141B
Date Collected:
Extraction Method: 3541
Date Extracted: 08/22/2018 11:30
Sample wt/vol: 15.0(g)
Date Analyzed: 08/23/2018 09:09
Con. Extract Vol.: 2.5(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: RTX-OPP1 ID: 0.53(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 254752
Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
126-73-8	Tributyl phosphate	87		20-150
115-86-6	Triphenylphosphate	88		34-150

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082306.D
Lims ID: LCS 180-254675/2-A
Client ID:
Sample Type: LCS
Inject. Date: 23-Aug-2018 09:09:31 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0023306-006
Operator ID: 402331 Instrument ID: CHGC5

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 23-Aug-2018 10:54:25 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Aug-2018 10:52:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.044	11.043	0.001	78771726H	2.00	1.73	
2	10.718	10.718	0.000	87732948H	2.00	1.63	
						RPD = 5.73	
$ 2 Triphenylphosphate							
1	20.602	20.604	-0.002	29554258H	2.00	1.75	
2	22.270	22.270	0.000	35005291H	2.00	1.84	
						RPD = 5.13	
3 o,o',o''-Triethylphosphorothioate							
1	4.898	4.895	0.003	130393302H	2.00	1.67	
2	5.046	5.044	0.002	143634877H	2.00	1.61	
						RPD = 3.36	
4 Dichlorvos							
1	6.908	6.906	0.002	72933462H	2.00	1.09	
2	6.308	6.305	0.003	73510634H	2.00	1.03	
						RPD = 5.64	
5 Mevinphos							
1	9.476	9.474	0.002	72027966H	2.00	1.44	
2	8.654	8.652	0.002	74358252H	2.00	1.48	
						RPD = 3.07	
6 Demeton-O							
1	9.947	9.947	0.000	28988176H	0.6800	0.5858	
2	10.580	10.578	0.002	31043752H	0.6800	0.5706	
						RPD = 2.64	
7 Thionazin							
1	10.136	10.136	0.000	92637992H	2.00	1.74	
2	10.683	10.683	0.000	101281014H	2.00	1.65	
						RPD = 5.22	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.550	10.550	0.000	95710603H	2.00	1.66	
2	10.862	10.862	0.000	103057897H	2.00	1.74	
						RPD = 4.85	
9 Phorate							
1	10.600	10.599	0.001	84998941H	2.00	1.58	
2	11.503	11.503	0.000	96641332H	2.00	1.65	
						RPD = 4.48	
10 Sulfotepp							
1	10.975	10.973	0.002	142516942H	2.00	1.76	
2	11.465	11.464	0.001	156280547H	2.00	1.72	
						RPD = 1.91	
11 Diazinon							
1	11.415	11.413	0.002	75637904H	2.00	1.78	
2	12.565	12.565	0.000	71319988H	2.00	1.76	
						RPD = 1.17	
12 Disulfoton							M
1	11.769	11.771	-0.002	100225127H	2.00	2.27	
2	12.767	12.767	0.000	69748846H	2.00	1.72	
						RPD = 27.52	
13 Demeton-S							M
1	11.794	11.798	-0.004	50529906H	1.32	1.04	
2	11.939	11.946	-0.007	61091518H	1.32	1.15	
						RPD = 10.23	
14 Dimethoate							
1	12.581	12.583	-0.002	66512080H	2.00	1.70	
2	12.346	12.348	-0.002	75919086H	2.00	1.52	
						RPD = 10.90	
15 Ronnel							
1	12.906	12.907	-0.001	58174887H	2.00	1.90	
2	14.330	14.328	0.002	50098432H	2.00	1.78	
						RPD = 6.78	
16 Chlorpyrifos							
1	13.619	13.619	0.000	46056266H	2.00	1.97	
2	15.614	15.610	0.004	39813079H	2.00	1.81	
						RPD = 8.43	
17 Fenthion							
1	13.830	13.829	0.001	55959910H	2.00	1.86	
2	15.880	15.879	0.001	53592187H	2.00	1.80	
						RPD = 3.26	
18 Trichloronate							
1	13.904	13.902	0.002	44657039H	2.00	1.87	
2	15.746	15.747	-0.001	42039685H	2.00	1.81	
						RPD = 3.13	
19 Methyl parathion							
1	14.635	14.635	0.000	48997691H	2.00	1.88	
2	14.268	14.270	-0.002	57389968H	2.00	1.74	
						RPD = 7.75	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	14.982	14.981	0.001	35312484H	2.00	1.77	
2	15.493	15.491	0.002	38200125H	2.00	1.81	
						RPD = 2.49	
21 Tokuthion							
1	16.054	16.055	-0.001	33864713H	2.00	1.79	
2	18.407	18.406	0.001	39467429H	2.00	1.79	
						RPD = 0.33	
22 Ethyl Parathion							
1	16.212	16.211	0.001	43125228H	2.00	1.76	
2	15.811	15.808	0.003	49998663H	2.00	1.80	
						RPD = 2.29	
23 Stirophos							
1	17.225	17.224	0.001	32848626H	2.00	1.81	
2	18.210	18.210	0.000	34755902H	2.00	1.84	
						RPD = 1.26	
24 Bolstar							
1	18.303	18.304	-0.001	38885736H	2.00	1.85	
2	20.896	20.896	0.000	42538015H	2.00	1.80	
						RPD = 2.45	
25 Fensulfothion							
1	21.193	21.195	-0.002	45474113H	2.00	1.82	
2	20.654	20.658	-0.004	46409477H	2.00	1.93	
						RPD = 5.36	
26 EPN							
1	22.253	22.255	-0.002	41149024H	2.00	1.74	
2	22.963	22.963	0.000	45503531H	2.00	1.72	
						RPD = 1.02	
27 Famphur							
1	22.499	22.500	-0.001	47362264H	2.00	1.75	
2	21.585	21.586	-0.001	47776129H	2.00	1.81	
						RPD = 3.37	
28 Azinphos-methyl							
1	22.891	22.894	-0.003	42951536H	2.00	1.90	
2	24.145	24.147	-0.002	48344852H	2.00	1.91	
						RPD = 0.77	
29 Coumaphos							
1	25.545	25.547	-0.002	47062314H	2.00	1.94	
2	25.390	25.392	-0.002	50715959H	2.00	1.82	
						RPD = 6.81	
S 30 Demeton, Total							
1					2.00	1.62	
2					2.00	1.72	
						RPD = 5.78	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 23-Aug-2018 10:54:27 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082306.D				
Injection Date:	23-Aug-2018 09:09:31	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	LCS 180-254675/2-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

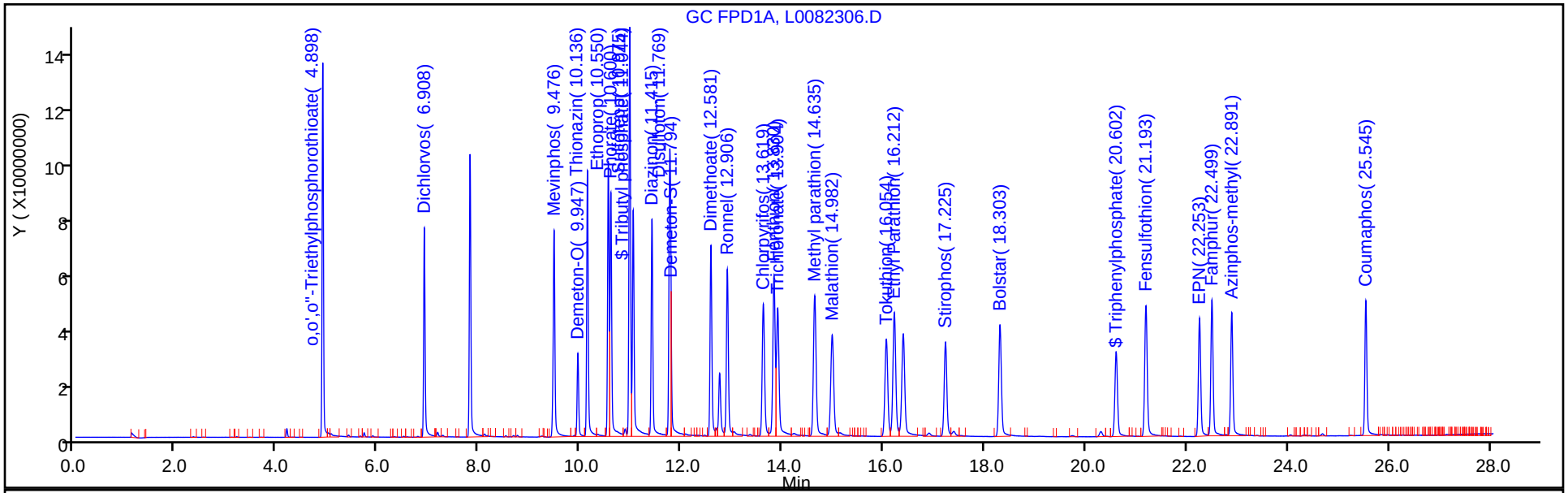

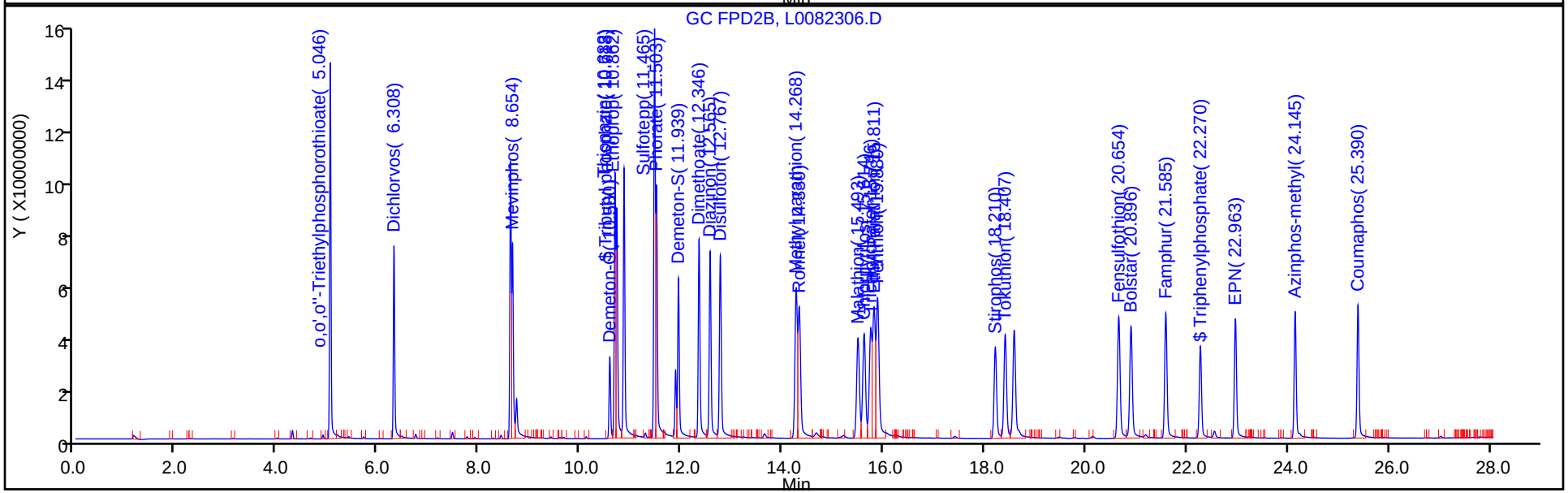

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 460-162840-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 180-254675/2-A
Matrix: Solid
Lab File ID: L0082306.D
Analysis Method: EPA 8141B
Date Collected:
Extraction Method: 3541
Date Extracted: 08/22/2018 11:30
Sample wt/vol: 15.0(g)
Date Analyzed: 08/23/2018 09:09
Con. Extract Vol.: 2.5(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: RTX-OPP2 ID: 0.53(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 254752
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-38-2	Parathion	300		33	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
126-73-8	Tributyl phosphate	82		20-150
115-86-6	Triphenylphosphate	92		34-150

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082306.D
Lims ID: LCS 180-254675/2-A
Client ID:
Sample Type: LCS
Inject. Date: 23-Aug-2018 09:09:31 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0023306-006
Operator ID: 402331 Instrument ID: CHGC5

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 23-Aug-2018 10:54:25 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Aug-2018 10:52:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.044	11.043	0.001	78771726H	2.00	1.73	
2	10.718	10.718	0.000	87732948H	2.00	1.63	
						RPD = 5.73	
$ 2 Triphenylphosphate							
1	20.602	20.604	-0.002	29554258H	2.00	1.75	
2	22.270	22.270	0.000	35005291H	2.00	1.84	
						RPD = 5.13	
3 o,o',o''-Triethylphosphorothioate							
1	4.898	4.895	0.003	130393302H	2.00	1.67	
2	5.046	5.044	0.002	143634877H	2.00	1.61	
						RPD = 3.36	
4 Dichlorvos							
1	6.908	6.906	0.002	72933462H	2.00	1.09	
2	6.308	6.305	0.003	73510634H	2.00	1.03	
						RPD = 5.64	
5 Mevinphos							
1	9.476	9.474	0.002	72027966H	2.00	1.44	
2	8.654	8.652	0.002	74358252H	2.00	1.48	
						RPD = 3.07	
6 Demeton-O							
1	9.947	9.947	0.000	28988176H	0.6800	0.5858	
2	10.580	10.578	0.002	31043752H	0.6800	0.5706	
						RPD = 2.64	
7 Thionazin							
1	10.136	10.136	0.000	92637992H	2.00	1.74	
2	10.683	10.683	0.000	101281014H	2.00	1.65	
						RPD = 5.22	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.550	10.550	0.000	95710603H	2.00	1.66	
2	10.862	10.862	0.000	103057897H	2.00	1.74	
						RPD = 4.85	
9 Phorate							
1	10.600	10.599	0.001	84998941H	2.00	1.58	
2	11.503	11.503	0.000	96641332H	2.00	1.65	
						RPD = 4.48	
10 Sulfotepp							
1	10.975	10.973	0.002	142516942H	2.00	1.76	
2	11.465	11.464	0.001	156280547H	2.00	1.72	
						RPD = 1.91	
11 Diazinon							
1	11.415	11.413	0.002	75637904H	2.00	1.78	
2	12.565	12.565	0.000	71319988H	2.00	1.76	
						RPD = 1.17	
12 Disulfoton							M
1	11.769	11.771	-0.002	100225127H	2.00	2.27	
2	12.767	12.767	0.000	69748846H	2.00	1.72	
						RPD = 27.52	
13 Demeton-S							M
1	11.794	11.798	-0.004	50529906H	1.32	1.04	
2	11.939	11.946	-0.007	61091518H	1.32	1.15	
						RPD = 10.23	
14 Dimethoate							
1	12.581	12.583	-0.002	66512080H	2.00	1.70	
2	12.346	12.348	-0.002	75919086H	2.00	1.52	
						RPD = 10.90	
15 Ronnel							
1	12.906	12.907	-0.001	58174887H	2.00	1.90	
2	14.330	14.328	0.002	50098432H	2.00	1.78	
						RPD = 6.78	
16 Chlorpyrifos							
1	13.619	13.619	0.000	46056266H	2.00	1.97	
2	15.614	15.610	0.004	39813079H	2.00	1.81	
						RPD = 8.43	
17 Fenthion							
1	13.830	13.829	0.001	55959910H	2.00	1.86	
2	15.880	15.879	0.001	53592187H	2.00	1.80	
						RPD = 3.26	
18 Trichloronate							
1	13.904	13.902	0.002	44657039H	2.00	1.87	
2	15.746	15.747	-0.001	42039685H	2.00	1.81	
						RPD = 3.13	
19 Methyl parathion							
1	14.635	14.635	0.000	48997691H	2.00	1.88	
2	14.268	14.270	-0.002	57389968H	2.00	1.74	
						RPD = 7.75	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	14.982	14.981	0.001	35312484H	2.00	1.77	
2	15.493	15.491	0.002	38200125H	2.00	1.81	
						RPD = 2.49	
21 Tokuthion							
1	16.054	16.055	-0.001	33864713H	2.00	1.79	
2	18.407	18.406	0.001	39467429H	2.00	1.79	
						RPD = 0.33	
22 Ethyl Parathion							
1	16.212	16.211	0.001	43125228H	2.00	1.76	
2	15.811	15.808	0.003	49998663H	2.00	1.80	
						RPD = 2.29	
23 Stirophos							
1	17.225	17.224	0.001	32848626H	2.00	1.81	
2	18.210	18.210	0.000	34755902H	2.00	1.84	
						RPD = 1.26	
24 Bolstar							
1	18.303	18.304	-0.001	38885736H	2.00	1.85	
2	20.896	20.896	0.000	42538015H	2.00	1.80	
						RPD = 2.45	
25 Fensulfothion							
1	21.193	21.195	-0.002	45474113H	2.00	1.82	
2	20.654	20.658	-0.004	46409477H	2.00	1.93	
						RPD = 5.36	
26 EPN							
1	22.253	22.255	-0.002	41149024H	2.00	1.74	
2	22.963	22.963	0.000	45503531H	2.00	1.72	
						RPD = 1.02	
27 Famphur							
1	22.499	22.500	-0.001	47362264H	2.00	1.75	
2	21.585	21.586	-0.001	47776129H	2.00	1.81	
						RPD = 3.37	
28 Azinphos-methyl							
1	22.891	22.894	-0.003	42951536H	2.00	1.90	
2	24.145	24.147	-0.002	48344852H	2.00	1.91	
						RPD = 0.77	
29 Coumaphos							
1	25.545	25.547	-0.002	47062314H	2.00	1.94	
2	25.390	25.392	-0.002	50715959H	2.00	1.82	
						RPD = 6.81	
S 30 Demeton, Total							
1					2.00	1.62	
2					2.00	1.72	
						RPD = 5.78	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 23-Aug-2018 10:54:28 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082306.D				
Injection Date:	23-Aug-2018 09:09:31	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	LCS 180-254675/2-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

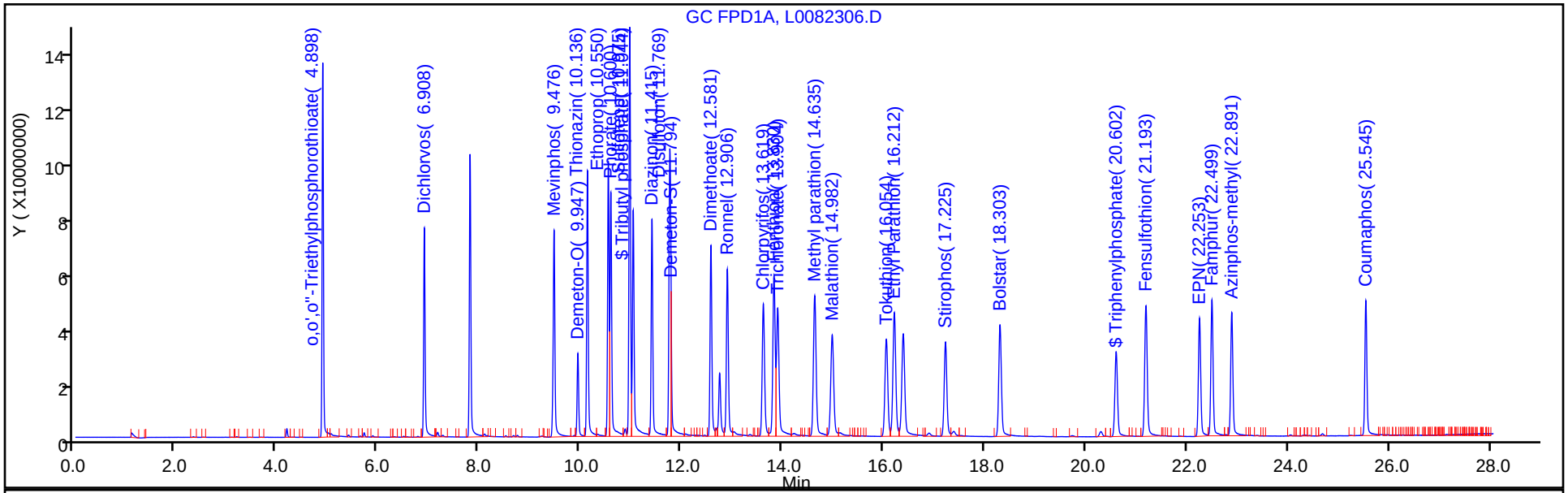

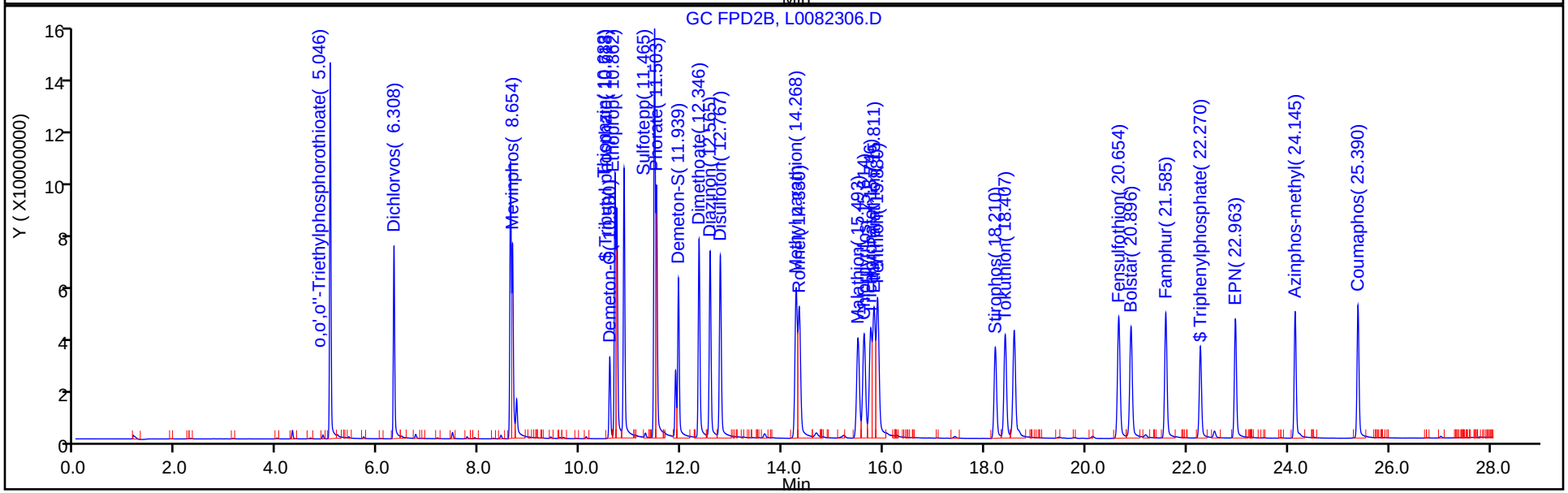

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Client Sample ID: AD05999-001 MS Lab Sample ID: 460-162840-1 MS

Matrix: Solid Lab File ID: L0082304.D

Analysis Method: EPA 8141B Date Collected: 08/15/2018 14:00

Extraction Method: 3541 Date Extracted: 08/22/2018 11:30

Sample wt/vol: 15.0(g) Date Analyzed: 08/23/2018 08:03

Con. Extract Vol.: 2.5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-OPP1 ID: 0.53(mm)

% Moisture: 19.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 254752 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
126-73-8	Tributyl phosphate	72		20-150
115-86-6	Triphenylphosphate	77		34-150

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 460-162840-1
SDG No.:
Client Sample ID: AD05999-001 MS
Lab Sample ID: 460-162840-1 MS
Matrix: Solid
Lab File ID: L0082304.D
Analysis Method: EPA 8141B
Date Collected: 08/15/2018 14:00
Extraction Method: 3541
Date Extracted: 08/22/2018 11:30
Sample wt/vol: 15.0(g)
Date Analyzed: 08/23/2018 08:03
Con. Extract Vol.: 2.5(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: RTX-OPP2 ID: 0.53(mm)
% Moisture: 19.7
GPC Cleanup:(Y/N) N
Analysis Batch No.: 254752
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-38-2	Parathion	341		41	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
126-73-8	Tributyl phosphate	69		20-150
115-86-6	Triphenylphosphate	85		34-150

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Client Sample ID: AD05999-001 MSD Lab Sample ID: 460-162840-1 MSD

Matrix: Solid Lab File ID: L0082305.D

Analysis Method: EPA 8141B Date Collected: 08/15/2018 14:00

Extraction Method: 3541 Date Extracted: 08/22/2018 11:30

Sample wt/vol: 15.0(g) Date Analyzed: 08/23/2018 08:36

Con. Extract Vol.: 2.5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-OPP1 ID: 0.53(mm)

% Moisture: 19.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 254752 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
126-73-8	Tributyl phosphate	79		20-150
115-86-6	Triphenylphosphate	81		34-150

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 460-162840-1
SDG No.:
Client Sample ID: AD05999-001 MSD
Lab Sample ID: 460-162840-1 MSD
Matrix: Solid
Lab File ID: L0082305.D
Analysis Method: EPA 8141B
Date Collected: 08/15/2018 14:00
Extraction Method: 3541
Date Extracted: 08/22/2018 11:30
Sample wt/vol: 15.0(g)
Date Analyzed: 08/23/2018 08:36
Con. Extract Vol.: 2.5(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: RTX-OPP2 ID: 0.53(mm)
% Moisture: 19.7
GPC Cleanup:(Y/N) N
Analysis Batch No.: 254752
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-38-2	Parathion	374		41	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
126-73-8	Tributyl phosphate	74		20-150
115-86-6	Triphenylphosphate	87		34-150

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Instrument ID: CHGC5 Start Date: 03/21/2018 08:43

Analysis Batch Number: 240093 End Date: 03/22/2018 00:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 180-240093/1		03/21/2018 08:43	1	L0321005.D	RTX-OPP1 0.53(mm)
IC 180-240093/1		03/21/2018 08:43	1	L0321005.D	RTX-OPP2 0.53(mm)
IC 180-240093/2		03/21/2018 09:16	1	L0321006.D	RTX-OPP1 0.53(mm)
IC 180-240093/2		03/21/2018 09:16	1	L0321006.D	RTX-OPP2 0.53(mm)
ICRT 180-240093/3		03/21/2018 09:49	1	L0321007.D	RTX-OPP1 0.53(mm)
ICRT 180-240093/3		03/21/2018 09:49	1	L0321007.D	RTX-OPP2 0.53(mm)
IC 180-240093/4		03/21/2018 10:22	1	L0321008.D	RTX-OPP1 0.53(mm)
IC 180-240093/4		03/21/2018 10:22	1	L0321008.D	RTX-OPP2 0.53(mm)
IC 180-240093/5		03/21/2018 10:55	1	L0321009.D	RTX-OPP1 0.53(mm)
IC 180-240093/5		03/21/2018 10:55	1	L0321009.D	RTX-OPP2 0.53(mm)
ICV 180-240093/6		03/21/2018 11:28	1		RTX-OPP1 0.53(mm)
ICV 180-240093/6		03/21/2018 11:28	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 12:01	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 12:01	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 12:34	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 12:34	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 13:56	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 13:56	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 14:29	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 14:29	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 15:02	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 15:02	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 15:35	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 15:35	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 16:08	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 16:08	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 16:41	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 16:41	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 17:14	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 17:14	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 17:47	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 17:47	1		RTX-OPP2 0.53(mm)
CCV 180-240093/17		03/21/2018 18:20	1		RTX-OPP1 0.53(mm)
CCV 180-240093/17		03/21/2018 18:20	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 18:53	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 18:53	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 19:26	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 19:26	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 19:59	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 19:59	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 20:32	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 20:32	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 21:05	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 21:05	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 21:38	1		RTX-OPP1 0.53(mm)

EPA 8141B

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Instrument ID: CHGC5 Start Date: 03/21/2018 08:43

Analysis Batch Number: 240093 End Date: 03/22/2018 00:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/21/2018 21:38	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 22:11	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 22:11	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 22:44	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 22:44	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 23:17	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 23:17	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 23:50	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 23:50	1		RTX-OPP2 0.53(mm)
CCV 180-240093/28		03/22/2018 00:23	1		RTX-OPP1 0.53(mm)
CCV 180-240093/28		03/22/2018 00:23	1		RTX-OPP2 0.53(mm)

EPA 8141B

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Instrument ID: CHGC5 Start Date: 08/23/2018 06:24

Analysis Batch Number: 254752 End Date: 08/23/2018 09:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 180-254752/1		08/23/2018 06:24	1	L0082301.D	RTX-OPP1 0.53(mm)
CCVRT 180-254752/1		08/23/2018 06:24	1	L0082301.D	RTX-OPP2 0.53(mm)
MB 180-254675/1-A		08/23/2018 06:57	1	L0082302.D	RTX-OPP1 0.53(mm)
MB 180-254675/1-A		08/23/2018 06:57	1	L0082302.D	RTX-OPP2 0.53(mm)
460-162840-1		08/23/2018 07:30	1	L0082303.D	RTX-OPP1 0.53(mm)
460-162840-1		08/23/2018 07:30	1	L0082303.D	RTX-OPP2 0.53(mm)
460-162840-1 MS		08/23/2018 08:03	1	L0082304.D	RTX-OPP1 0.53(mm)
460-162840-1 MS		08/23/2018 08:03	1	L0082304.D	RTX-OPP2 0.53(mm)
460-162840-1 MSD		08/23/2018 08:36	1	L0082305.D	RTX-OPP1 0.53(mm)
460-162840-1 MSD		08/23/2018 08:36	1	L0082305.D	RTX-OPP2 0.53(mm)
LCS 180-254675/2-A		08/23/2018 09:09	1	L0082306.D	RTX-OPP1 0.53(mm)
LCS 180-254675/2-A		08/23/2018 09:09	1	L0082306.D	RTX-OPP2 0.53(mm)
CCV 180-254752/7		08/23/2018 09:42	1	L0082307.D	RTX-OPP1 0.53(mm)
CCV 180-254752/7		08/23/2018 09:42	1	L0082307.D	RTX-OPP2 0.53(mm)

EPA 8141B

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Batch Number: 254675 Batch Start Date: 08/22/18 11:30 Batch Analyst: Clemente, Shawn A

Batch Method: 3541 Batch End Date: 08/22/18 15:12

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	OP8141MATRIXS 00042	OP8141SURRSPK 00018		
MB 180-254675/1		3541, EPA 8141B		15.0 g	2.5 mL		0.1 mL		
LCS 180-254675/2		3541, EPA 8141B		15.0 g	2.5 mL	0.25 mL	0.1 mL		
460-162840-A-1 MS	AD05999-001	3541, EPA 8141B	T	15.0 g	2.5 mL	0.25 mL	0.1 mL		
460-162840-A-1 MSD	AD05999-001	3541, EPA 8141B	T	15.0 g	2.5 mL	0.25 mL	0.1 mL		
460-162840-A-1	AD05999-001	3541, EPA 8141B	T	15.0 g	2.5 mL		0.1 mL		

Batch Notes	
Balance ID	T0358722
Analyst ID - Concentration	SC
Corrected Temperature	21 Degrees C
Exchange Solvent ID	Hexane 2855610
Analyst ID - Extraction	SC
Extraction 1 End Time	08/22/2018 15:12
Extraction 1 Start Time	08/22/2018 11:30
Na2SO4 ID	2843233
Nominal Amount Used	Yes g
Pipette/Syringe/Dispenser ID	2
Prep Solvent ID	Hexane/acetone 2853829
Soxtherm Unit ID	4
Analyst ID - Spike Analyst	SC
Sufficient Volume for Batch QC	Yes
Uncorrected Temperature	21 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job Number: 460-162840-1

SDG No.:

Project: 8081617

Client Sample ID	Lab Sample ID
AD05999-001	460-162840-1

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job Number: 460-162840-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: 2540G RL Date: 01/31/2010 13:27

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job Number: 460-162840-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: 2540G XRL Date: 01/31/2010 13:31

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

FORM IX - IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Instrument ID: NOEQUIP Method: 2540G

Start Date: 08/23/2018 12:21 End Date: 08/23/2018 12:32

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
460-162840-1	1	T	12:21	X	X																		
460-162840-1 DU	1	T	12:21	X	X																		
ZZZZZZ			12:21																				
ZZZZZZ			12:21																				
ZZZZZZ			12:21																				
ZZZZZZ			12:21																				
ZZZZZZ			12:21																				
ZZZZZZ			12:21																				
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ZZZZZZ			12:21																				
ZZZZZZ			12:21																				
ZZZZZZ			12:32																				
ZZZZZZ			12:32																				
ZZZZZZ			12:32																				

Prep Types
T = Total/NA

Subcontract Data

Shipping and Receiving Documents

CHAIN OF CUSTODY RECORD

162840

Hampton-Clarke, Inc.
175 US Hwy 46 West
Fairfield, New Jersey, 07004
Ph:800-426-9992 Fax:973-439-1458

Report To:
Hampton-Clarke, Inc.:
Attn:Reporting
175 Route 46 West
Fairfield, New Jersey 07004

Invoice To:
Hampton-Clarke, Inc.:
Attn:Accounting
175 Route 46 West
Fairfield, New Jersey 07004

Project #: 8081617

CocID#: 5953

FINAL RESULTS TO: subresults@hcvlab.com
PRELIM/VERBAL RESULTS TO: subresults@hcvlab.com

EDD: NEW JERSEY HAZRESULT OR EQUIS EZEDD REQUIRED FOR ALL DATA SUBMITTALS!

Turn Around Time: Standard **Preliminary Due Date:** 8/31/2018
Report Type: NYDOH-R (REDUCED) **Hard Copy Due Date:** 9/10/2018

Sample Number:	Client ID	Matrix:	Date Collected:	Time Collected:	Analysis Requested
AD05999-001	SS-1	Soil	8/15/2018	2:00:00 PM	EPA 8141 (Parathion only)

460-162840 Chain of Custody

CS 8/16

Relinquished By:	Accepted By:	Date:	Time:	Comments, Notes, Special Requirements, HAZARDS
		8/17/18	925	
		8/17/18	9:25	

0.9 #9

Cooler Temp:_____

Subcontracted Lab Id and Contact: TA-Edison, Sapna Nyyar, (732) 549-3900, LabID: House, 777 New Durham Road, , Edison, NJ, 08817

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 162840

Number of Coolers: 1 IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	0.9 °C	0.9 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials: KG Date: 8/17/18

TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

460-162840 Chain of Custody

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Meidhof, Marie A		No: -52445.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: marie.meidhof@testamericainc.com	State of Origin: New Jersey	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New Jersey		Job #: 460-162840-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 8/20/2018			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			
Email:	WO #:			
Project Name: NY Sites	Project #: 46025105			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B/3541_7d Parathion	Moisture/ Percent Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
AD05999-001 (460-162840-1)	8/15/18	14:00 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 8/21/18 1800	Company: TAEdi	Received by:	Date/Time: 8/22/18 915	Company: TAEdi
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Hampton-Clarke Veritech

Job Number: 460-162840-1

Login Number: 162840
List Number: 1
Creator: Jara, Kelly D

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Hampton-Clarke Veritech

Job Number: 460-162840-1

Login Number: 162840
List Number: 2
Creator: Say, Thomas C

List Source: TestAmerica Pittsburgh
List Creation: 08/22/18 10:43 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

www.pacelabs.com

Report Prepared for:

Natasha Davis
Veritech
175 W. Route 46
Fairfield NJ 07004

REPORT OF LABORATORY ANALYSIS FOR TCDD/TCDF

Report Prepared Date:
August 30, 2018

Report Information:

Pace Project #: 10443876
Sample Receipt Date: 08/17/2018
Client Project #: 8081617
Client Sub PO #: N/A
State Cert #: MN002

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Nathan Boberg, your Pace Project Manager.

This report has been reviewed by:

August 31, 2018
Nathan Boberg, Project Manager

(612) 607-6444 (fax)
nathan.boberg@pacelabs.com

Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analysis performed on one sample submitted by a representative of Veritech. The sample was analyzed for the presence or absence of 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) and 2,3,7,8-tetrachlorodibenzofuran (2,3,7,8-TCDF) using USEPA Method 1613B. The reporting limits were set to correspond to the lowest calibration points and were adjusted for sample amount.

The recoveries of the isotopically-labeled TCDD/TCDF internal standards in the sample extract ranged from 63-66%. All of the labeled standard recoveries obtained for this project were within the target ranges specified in Method 1613B. Also, since the quantification of the native congeners was based on isotope dilution, the data were automatically corrected for recovery and accurate values were obtained.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to be free of 2,3,7,8-TCDD and 2,3,7,8-TCDF at the reporting limits.

Laboratory and matrix spike samples were also prepared using clean reference matrix or sample matrix that had been fortified with native standard materials. The recoveries of the native compounds ranged from 104-118% with relative percent differences of 1.7-2.0%. These results were within the target ranges for the method.

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Minnesota - Pet	1240
Alabama	40770	Mississippi	MN00064
Alaska - DW	MN00064	Montana	CERT0092
Alaska - UST	17-009	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN00064
Arkansas - DW	MN00064	New Hampshire	2081
Arkansas - WW	88-0680	New Jersey (NE	MN002
CNMI Saipan	MP0003	New York	11647
California	2929	North Carolina	27700
Colorado	MN00064	North Carolina -	27700
Connecticut	PH-0256	North Carolina -	530
EPA Region 8+	via MN 027-053	North Dakota	R-036
Florida (NELAP	E87605	Ohio - DW	41244
Georgia	959	Ohio - VAP	CL101
Guam	17-001r	Oklahoma	9507
Hawaii	MN00064	Oregon - Primar	MN300001
Idaho	MN00064	Oregon - Secon	MN200001
Illinois	200011	Pennsylvania	68-00563
Indiana	C-MN-01	Puerto Rico	MN00064
Iowa	368	South Carolina	74003
Kansas	E-10167	South Dakota	NA
Kentucky - DW	90062	Tennessee	TN02818
Kentucky - WW	90062	Texas	T104704192
Louisiana - DE	03086	Utah (NELAP)	MN00064
Louisiana - DW	MN00064	Virginia	460163
Maine	MN00064	Washington	C486
Maryland	322	West Virginia -	382
Massachusetts	M-MN064	West Virginia -	9952C
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming - UST	2926.01
Minnesota - De	via MN 027-053		

REPORT OF LABORATORY ANALYSIS

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Report No.....10443876

Appendix A

Sample Management

CHAIN OF CUSTODY RECORD

Hampton-Clarke, Inc.
175 US Hwy 46 West
Fairfield, New Jersey, 07004
Ph:800-426-9992 Fax:973-439-1458

Report To:
Hampton-Clarke, Inc.:
Attn:Reporting
175 Route 46 West
Fairfield, New Jersey 07004

Invoice To:
Hampton-Clarke, Inc.:
Attn:Accounting
175 Route 46 West
Fairfield, New Jersey 07004

Project #: 8081617

CocID#: 5952

WO# : 10443876

10443876

FINAL RESULTS TO: subresults@hcvlab.com
PRELIM/VERBAL RESULTS TO: subresults@hcvlab.com

EDD: NEW JERSEY HAZRESULT OR EQUIS EZEDD REQUIRED FOR ALL DATA SUBMITTALS!

Turn Around Time: Standard **Preliminary Due Date:** 8/31/2018
Report Type: NYDOH-R (REDUCED) **Hard Copy Due Date:** 9/10/2018

Sample Number:	Client ID	Matrix:	Date Collected:	Time Collected:	Analysis Requested	
AD05999-001	SS-1	Soil	8/15/2018	2:00:00 PM	EPA 1613 (2,3,7,8-TCDD & PCDF only)	001

CA 8/16

Relinquished By:	Accepted By:	Date:	Time:	Comments, Notes, Special Requirements, HAZARDS
[signature] CRS	CRS	8/16/18	1720	T=2.9
	Austin PACE	8/17/18	825	

Cooler Temp:_____

HC Lab Use Only: **Subcontracted Lab Id and Contact:** Scott Unze, (612) 608-6383, LabID: H, 1700 Elm Street, Suite 200, Minneapolis, MN, 55414

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 02May2018 Page 1 of 2
	Document No.: **F-MN-L-213-rev.23**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Hampton-Clarke

Project #: **WO#: 10443876**

PM: NB3 **Due Date: 08/31/18**

CLIENT: H.C.Veritech

Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:

Tracking Number: 1Z1X784213978449647

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other: Foam **Temp Blank?** ☐ Yes ☒ No

Thermometer Used: ☒ G87A9170600254 ☐ G87A9155100842 **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Cooler Temp Read (°C): 2.4 **Cooler Temp Corrected (°C):** 2.5 **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Correction Factor:** +0.1 **Date and Initials of Person Examining Contents:** AS 8/17/18

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☒ Yes	☐ No		1.
Chain of Custody Filled Out?	☒ Yes	☐ No		2.
Chain of Custody Relinquished?	☒ Yes	☐ No		3.
Sampler Name and/or Signature on COC?	☐ Yes	☒ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No		5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		6.
Rush Turn Around Time Requested?	☐ Yes	☒ No		7.
Sufficient Volume?	☒ Yes	☐ No		8.
Correct Containers Used?	☒ Yes	☐ No		9.
-Pace Containers Used?	☐ Yes	☒ No		
Containers Intact?	☒ Yes	☐ No		10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11. Note if sediment is visible in the dissolved container
Is sufficient information available to reconcile the samples to the COC? Matrix: SL	☒ Yes	☐ No		12. No time on sample
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☒ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes	☐ No	☒ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Client indicated needing TCDD+TCDF only

Project Manager Review: Nathan Boberg **Date:** 8/20/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Reporting Flags

A = Reporting Limit based on signal to noise

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Interference present

J = Estimated value

L = Suppressive interference, analyte may be biased low

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = See Discussion

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Appendix B

Sample Analysis Summary

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - Veritech

Client's Sample ID	AD05999-001		
Lab Sample ID	10443876001		
Filename	F180825A_15		
Injected By	BAL		
Total Amount Extracted	11.4 g	Matrix	Soil
% Moisture	4.2	Dilution	NA
Dry Weight Extracted	10.9 g	Collected	08/15/2018 14:00
ICAL ID	F180823	Received	08/17/2018 08:25
CCal Filename(s)	F180825A_02	Extracted	08/21/2018 14:30
Method Blank ID	BLANK-64231	Analyzed	08/25/2018 21:14

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**RL** ng/Kg	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	ND	-----	0.92	2,3,7,8-TCDF-13C	2.00	63
2,3,7,8-TCDD	ND	-----	0.92	2,3,7,8-TCDD-13C	2.00	66
				Recovery Standard 1,2,3,4-TCDD-13C	2.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	0.20	66

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
R = Recovery outside target range
E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Blank Analysis Results

Lab Sample Name	DFBLKBB		
Lab Sample ID	BLANK-64231	Matrix	Solid
Filename	U180824A_12	Dilution	NA
Total Amount Extracted	20.4 g	Extracted	08/21/2018 14:30
ICAL ID	U180818	Analyzed	08/24/2018 18:21
CCal Filename(s)	U180823B_12	Injected By	BAL

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**RL** ng/Kg	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	ND	-----	0.49	2,3,7,8-TCDF-13C	2.00	77
2,3,7,8-TCDD	ND	-----	0.49	2,3,7,8-TCDD-13C	2.00	69
				Recovery Standard 1,2,3,4-TCDD-13C	2.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	0.20	76

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-64232		
Filename	U180824A_07	Matrix	Solid
Total Amount Extracted	20.5 g	Dilution	NA
ICAL ID	U180818	Extracted	08/21/2018 14:30
CCal Filename	U180823B_12	Analyzed	08/24/2018 14:19
Method Blank ID	BLANK-64231	Injected By	BAL

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	12	8.0	14.7	118
2,3,7,8-TCDD	10	12	7.3	14.6	115
2,3,7,8-TCDD-37Cl4	10	8.4	3.7	15.8	84
2,3,7,8-TCDF-13C	100	84	26.0	126.0	84
2,3,7,8-TCDD-13C	100	75	25.0	141.0	75

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Spiked Sample Report

Client - Veritech

Client's Sample ID	AD05999-001-MS		
Lab Sample ID	10443876001-MS		
Filename	F180825A_16	Matrix	Soil
Total Amount Extracted	11.4 g	Dilution	NA
ICAL ID	F180823	Extracted	08/21/2018 14:30
CCal Filename(s)	F180825A_02	Analyzed	08/25/2018 21:59
Method Blank ID	BLANK-64231	Injected By	BAL

Native Isomers	**Qs** (ng)	**Qm** (ng)	% Rec.	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.20	0.22	109	2,3,7,8-TCDF-13C	2.00	81
2,3,7,8-TCDD	0.20	0.21	105	2,3,7,8-TCDD-13C	2.00	87
				1,2,3,4-TCDD-13C	2.00	NA
				2,3,7,8-TCDD-37Cl4	0.20	94

Qs = Quantity Spiked Qm = Quantity Measured Rec. = Recovery (Expressed as Percent)

Results reported on a total weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Spiked Sample Report

Client - Veritech

Client's Sample ID	AD05999-001-MSD		
Lab Sample ID	10443876001-MSD		
Filename	F180825A_17	Matrix	Soil
Total Amount Extracted	11.4 g	Dilution	NA
ICAL ID	F180823	Extracted	08/21/2018 14:30
CCal Filename(s)	F180825A_02	Analyzed	08/25/2018 22:44
Method Blank ID	BLANK-64231	Injected By	BAL

Native Isomers	**Qs** (ng)	**Qm** (ng)	% Rec.	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.20	0.21	107	2,3,7,8-TCDF-13C	2.00	78
2,3,7,8-TCDD	0.20	0.21	104	2,3,7,8-TCDD-13C	2.00	84
				1,2,3,4-TCDD-13C	2.00	NA
				2,3,7,8-TCDD-37Cl4	0.20	87

Qs = Quantity Spiked Qm = Quantity Measured Rec. = Recovery (Expressed as Percent)

Results reported on a total weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613 Spike Sample Results

Client - Veritech

Client Sample ID	AD05999-001			Dry Weights	
Lab Sample ID	10443876001	Sample Filename	F180825A_15	Sample Amount	10.9 g
MS ID	10443876001-MS	MS Filename	F180825A_16	MS Amount	10.9 g
MSD ID	10443876001-MSD	MSD Filename	F180825A_17	MSD Amount	10.9 g

Analyte	Sample Conc. ng/Kg	MS/MSD Qs (ng)	MS Qm (ng)	MSD Qm (ng)	RPD	Background Subtracted MS % Rec.	MSD % Rec.	RPD
2,3,7,8-TCDF	0.000	0.20	0.22	0.21	2.0	109	107	2.0
2,3,7,8-TCDD	0.000	0.20	0.21	0.21	1.7	105	104	1.7

Definitions

MS = Matrix Spike
MSD = Matrix Spike Duplicate
Qm = Quantity Measured
Qs = Quantity Spiked
% Rec. = Percent Recovery
RPD = Relative Percent Difference
NA = Not Applicable
NC = Not Calculated

CDD = Chlorinated dibenzo-p-dioxin
CDF = Chlorinated dibenzo-p-furan
T = Tetra
Pe = Penta
Hx = Hexa
Hp = Hepta
O = Octa

APPENDIX O

Drawings titled:

- **"Methane Monitoring System Ceiling Plan (As Built)" prepared by EAI dated February 11, 2019**
- **"Vapor Remediation Floor Plan (As Built Monitoring Pt Layout as of 8/1/18") prepared by French & Parrello with annotations by EAI dated August 1, 2018**

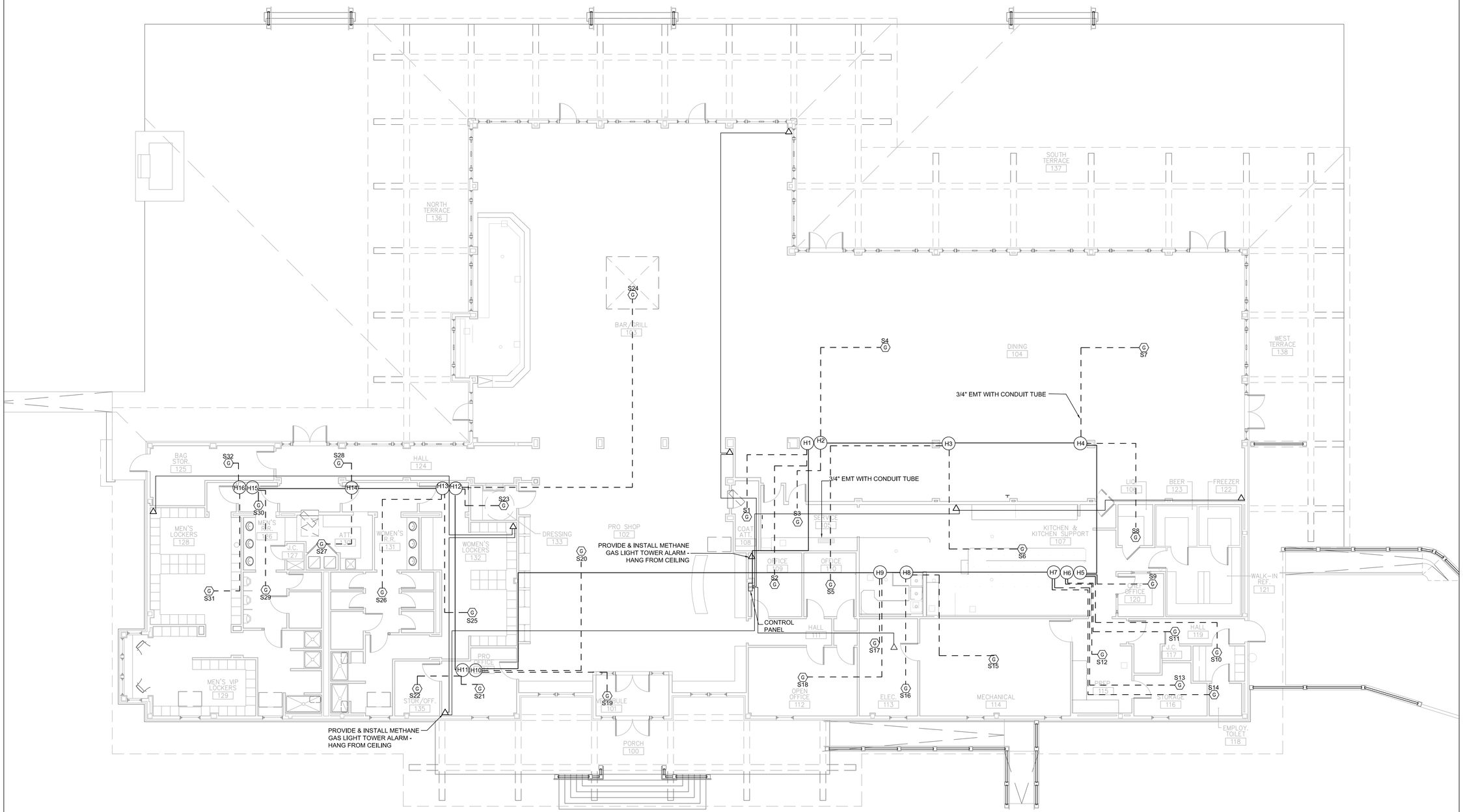

NOTES:

1) NO CHANGES TO THE METHANE GAS LIGHT TOWER ALARM.
2) ALL SENSOR HEADS (IE H#) SHIFTED IN FIELD EXCEPT H11.
3) ONLY SENSORS (IE S#) SHIFTED > 1FT FROM SD201 DATED 9/21/17: S16, S19, S28.

LEGEND

- GAS SENSOR
- METHANE GAS SENSOR CONTROL PANEL
- METHANE GAS LIGHT TOWER ALARM
- 3/4" EMT WITH CONDUIT TUBE BETWEEN HEADS AND PANEL
- 3/4" EMT WITH CONDUIT TUBE BETWEEN HEADS AND SENSORS
- METHANE SENSOR
- POWER SUPPLY/ TRANSMITTER WITH POWER

0 4' 8' 16'

AS-BUILT

Environmental Management Services
50 Prescott Street
Jersey City, NJ 07304
Phone: 201-395-0010
Fax: 201-395-0020

No.	Date	Revision
01	2/11/2019	AS-BUILT

Designer:	
Drawn by:	JM
Checked by:	ZT
Scale: 1/8" = 1'	Date: 2/11/2019

Project:
FERRY POINT CLUBHOUSE

Address:
300 HUTCHINSON RIVER PARKWAY
BRONX, NEW YORK 10465

Drawing Title:
METHANE MONITORING SYSTEM
CEILING PLAN

Drawing No.:
SD201

Sheets in Drawing Set:
01 of 01

AS BUILT MONITORING PT LAYOUT AS OF 8/1/18

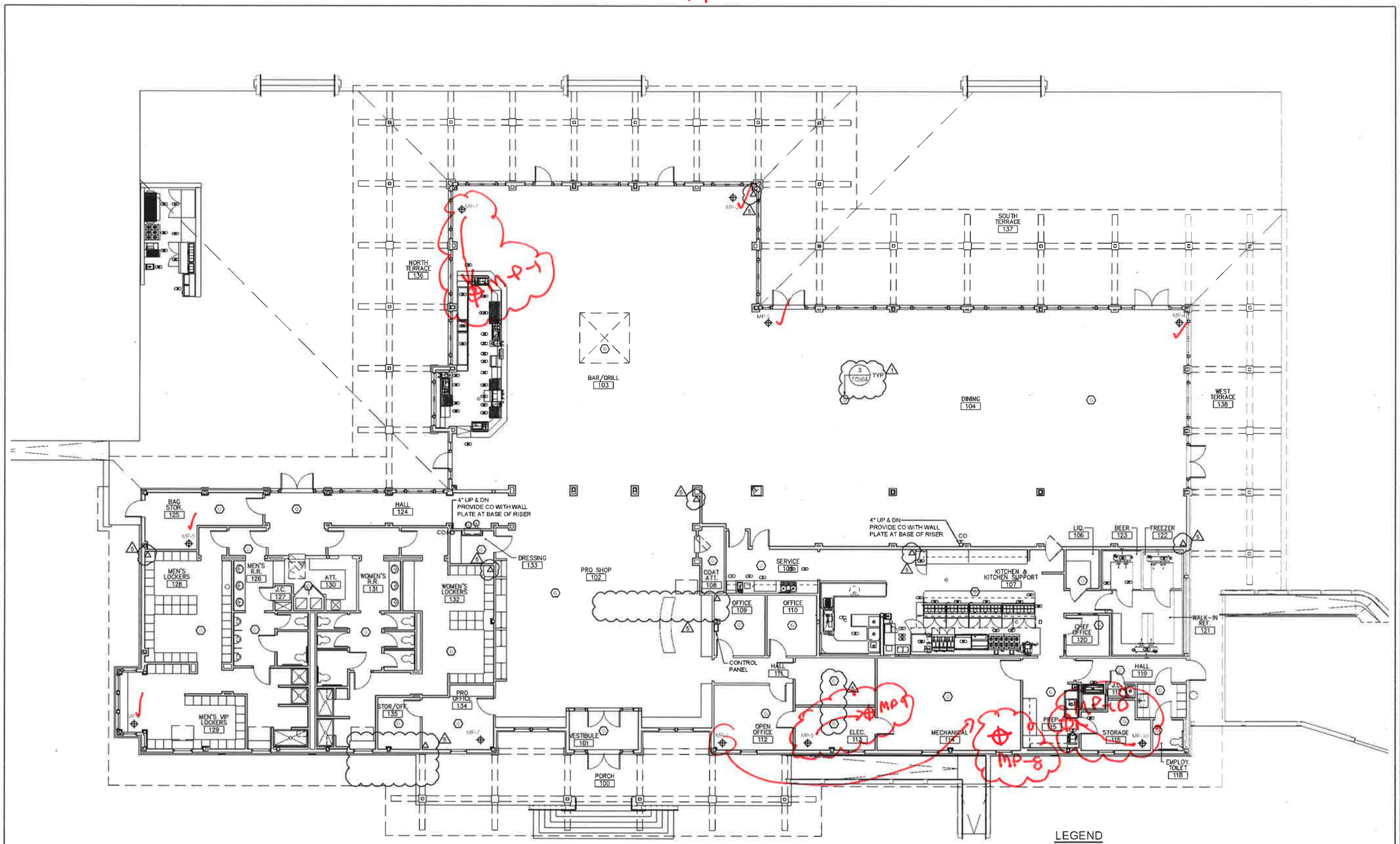

FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

LEGEND

SFV-1	SUCTION FAN VERTICAL 4" RISER AND IDENTIFICATION NUMBER EXTEND THRU ATTIC TO SUCTION FAN
MP-1	SUB-SLAB MONITORING POINT AND IDENTIFICATION NUMBER
	GAS SENSOR
	METHANE GAS SENSOR CONTROL PANEL
	METHANE GAS LIGHT TOWER ALARM - HANG FROM CEILING

FOR CONSTRUCTION

NEW YORK ALTERATION WARNING

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145 AND NEW YORK STATE EDUCATION LAW ARTICLE 147 FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM BEARING THE ENGINEER'S SEAL AND THE NOTIFICATION "ALTERED BY" FOLLOWED BY A SIGNATURE AND SPECIFIC DESCRIPTION OF THE ALTERATION.

FRENCH & PARRELLO ASSOCIATES

Corporate Office
1000 Pitts Dr., Suite 101
Wall, NJ 07719
732 942 9000

Regional Offices:
Mountainside, NJ
New York, NY

HART | HOWERTON
PLANNERS ARCHITECTS
LANDSCAPE ARCHITECTS

HART HOWERTON, PLANNING, ARCHITECTURE AND LANDSCAPE ARCHITECTURE PC
70 East 55th Street New York, NY 10016
Tel: 212 753 5633 Fax: 212 191 3766
E-mail: NY@hartrowerton.com

TRUMP
THE TRUMP ORGANIZATION

TRUMP GOLF LINKS
FERRY POINT PARK
Bronx, New York

Hart Howerton, Architects, Landscape Architects P.C. The designs and concepts shown on this sheet are the property of Hart Howerton and may not be used without the prior written consent of Hart Howerton.

SCALE
NOTE: IF THE DRAWING IS NOT 24"X36", IT HAS BEEN REVISED FROM ITS ORIGINAL SIZE. SCALE IS NO LONGER APPLICABLE.

DATE	ISSUE
04-16-15	100% DD
06-02-15	30% CD
07-01-15	70% CD
07-27-15	90% CD
06-15-17	FOR CONSTRUCTION

REVISIONS

NO	DATE	ISSUE
	02-17-17	REMOVE B/SMT
	03-30-17	DEC REVIEW RE-SIZE/ REMOVE B/SMT
3	04-07-17	COMMENTS
4	05-05-17	DEC COMMENTS
5	06-06-17	

DRAWING TITLE
VAPOR REMEDIATION FLOOR PLAN

PROJECT # 14-534
DRAWN BY
CHECKED BY FRM

DRAWING NO
EO-501.00

APPENDIX P

CETCO/Minerals Technologies Letter to EAI Inc. re: "Liquid Boot Spraying Temp" dated November 9, 2017

EAI Inc. letter to Maser Consulting P.A. re: "Vapor Remediation System Installation, Ferry Point Clubhouse, Ferry Point Park, Bronx, NY" dated October 18, 2019

Zarah Thanasides <zaraht@eaienviro.com>

Liquid Boot Spraying Temp

1 message

Matt Geary <matt.geary@mineralstech.com> Thu, Nov 9, 2017 at 9:31 AM
To: Zarah Thanasides <zaraht@eaienviro.com>

Hi Zarah,

As per our recent conversation, regular Liquid Boot specifications call for ambient temperature to be 45 F during spraying, however down to 35 F may be acceptable and that decision is left to experienced applicators and inspectors based on field observations. When proper curing is observed spraying can continue. Below 35F and down to 25F Liquid Boot Low Temperature formulation must be used or the area being sprayed has to be heated.

Thanks,

Matt Geary

Technical Sales Manager, Environmental Products

CETCO / A Minerals Technologies Company

Direct: 518-430-8790

matt.geary@mineralstech.com | www.cetco.com

OUR STANDARDS. YOUR PEACE OF MIND.

EAI INC
ENVIRONMENTAL MANAGEMENT SERVICES
SPECIALTY CONTRACTING

50 Prescott Street
Jersey City, NJ 07304
Office: (201) 395-0010
Fax: (201) 395-0020
www.eaienviro.com

October 18, 2019

David J. Keil, PG
Maser Consulting P.A.
50 Chestnut Ridge Road, Suite 101
Montvale, NJ 07645
Cell: (201) 937-3515
Tel: (845) 352-0411 x3905
Email: dkeil@maserconsulting.com

Re: Vapor Remediation System Installation
Ferry Point Clubhouse
Ferry Point Park
Bronx, NY

Dear Mr. Keil,

This letter serves to inform you that the Vapor Remediation System at the above referenced site has been completely installed. Installation was performed in accordance with manufacturer specifications, contract documents and approved submittals.

System components included Fluid-Applied Gas Vapor Barrier, Sub-Slab Depressurization System, Sub-Slab Depressurization System Accessories and Methane Gas Detection and Alarm.

If you have any questions, please contact me at (201) 395-0010 x229. Thank you.

Sincerely,

Robert Carvalho, PG
President/CEO

APPENDIX Q

Drawings titled "Ferry Point Clubhouse, 500 Hutchinson Parkway, Bronx, NY" showing new gas line prepared by Victor Famulari Architect P.C. dated July 25, 2018

CONTOUR & INTERIM SURFACE BOUDARY LEGEND:

- FINAL CONTOUR (SEPTEMBER 2014)
- FINAL SPOT ELEVATION (SEPTEMBER 2014)
- FINAL CONTOUR (UNDER WATER)
- INTERIM BOUNDARY SURFACE LIMITS (SHOWN ON SHEET 1 ONLY)
- PROPERTY LINE

GOLF COURSE LEGEND:

NOTE: ALL AREAS NOT DESIGNATED "FAIRWAY, GREEN, TEE, IRRIGATED ROUGH, WETLANDS SEEDED OR PAVED" ARE DEEMED "NATIVE AREAS", (TOTAL NATIVE AREA 105.3 Ac.)

552/184 Yds.

- 17 — HOLE NUMBER AND YARDAGE
- TREES
- DENSE VEGETATION
- TREE LINE / BRUSH
- TEES
- GREENS
- GEOTEC CORE LIMITS
- LIMITS OF FAIRWAYS (TOTAL 4.5 Ac)
- LIMITS OF IRRIGATED ROUGH (TOTAL 27.3 Ac.)
- LIMITS OF WETLAND SEEDING (TOTAL 96,654 SF)
- BUNKERS
- STONE RIP-RAP
- WATER
- ASPHALT CART PATH
- ASPHALT CART PATH W/ ASPHALT CURB
- DIRT TRAIL
- FENCE
- RETAINING WALL
- TIMBER GUIDERAIL
- CONCRETE SIDEWALK, CONCRETE CURB & DROP CURB

GAS, ELECTRIC LEGEND:

- WCA LIGHT (IN CLUB PARKING LOT)
- BOLLARD LIGHT (AT DRIVING RANGE)
- ELECTRIC TRANSFORMER
- ELECTRIC PULL-BOX
- ELECTRIC M-11 MANHOLE
- TELEPHONE PULL-BOX
- GAS VALVE
- G — G — GAS MAIN
- T — T — TELEPHONE CONDUIT
- E — E — ELECTRIC POWER CONDUIT

DRAINAGE LEGEND:

- DRAIN MANHOLE (12"-18" SOLID COVER)
- DRAIN BASIN (12"-18" GRATE)
- POND FILL STRUCTURE (66"x 48" GRATE)
- IN-LINE DRAIN (12"x 12" GRATE)
- WING WALL
- PRECAST MANHOLE (24" SOLID CASTING)
- DEP BOX CULVERT ACCESS MH (24" W/DEEP SOLID CASTING)
- OUTLET STRUCTURE (43"x 47" GRATE)
- DRAIN INLETS AND CATCH BASINS (30"x 48" GRATE)
- PPE — HIGH DENSITY POLIETHYLENE DRAIN PIPE AND FLOW DIRECTION
- PM — HDPE FORCE MAIN
- DIP — DUCTILE IRON PIPE
- PERFORATED PVC — 4" DRAIN LINE

WATER SERVICE LEGEND:

- HYDRANT
- WATER VALVE
- 12" (PW) — 12" POTTABLE WATER MAIN
- 10" (PW) — 10" POTTABLE WATER MAIN
- 8" (PW) — 8" POTTABLE WATER MAIN
- 6" (PW) — 6" POTTABLE WATER MAIN

IRRIGATION LEGEND:

- DRAIN VALVE
- AIR RELEASE VALVE
- SATELITE
- ISO VALVE
- COMO CABLE SPLC
- PRESSURE REDUCING VALVE
- POWER CABLE SPLICE BOX
- 12" IRRIGATION WATER MAIN
- 10" IRRIGATION WATER MAIN
- 8" IRRIGATION WATER MAIN
- 6" IRRIGATION WATER MAIN
- 4" IRRIGATION WATER MAIN

MONITORING LEGEND:

- LFG — LANDFILL GAS (LFG) COLLECTION PIPE CONSTRUCTED IN ACCORDANCE TO DMG. H2.13
- EXISTING LFG PASSIVE VENT WELL
- GVM — GAS VENT APPURTENANCE BOX
- PZ-16 — PIEZOMETER
- SETTLEMENT PLATE
- GW — GROUND WATER MONITORING WELL
- MW-19 Repl — NEW LFG PASSIVE VENT WELL
- VENT TRENCH CONSTRUCTED IN ACCORDANCE WITH DMG. H2.3-H2.8

CONSTRUCTION DEVIATIONS REFERENCE TO THE LIST OF SUPPLEMENTAL CONTRACT DRAWINGS FOR CONSTRUCTION OF A TOURMANENT QUALITY GOLF COURSE PREPARED BY SANFORD GOLF DESIGN

Construction Deviations
April 10, 2015
Revised July 13, 2015 Notes

FERRY POINT GOLF COURSE

CONSTRUCTED FOR:

CITY OF NEW YORK PARKS & RECREATION

PROJECT TITLE:

THE CONSTRUCTION OF A TOURNAMENT QUALITY GOLF COURSE BOUNDED BY THE EAST RIVER, BALCOLM AVENUE, MILES AVENUE AND THE WHITESTONE BRIDGE APPROACH, IN FERRY POINT PARK, BOROUGH OF THE BRONX

CONTRACT: X126-109M

Sheet 1 of 12

REVISIONS

No	Date	Description

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THE TRUMP ORGANIZATION

FERRY POINT CLUBHOUSE

500 HUTCHINSON PARKWAY
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SEAL & SIGNATURE:

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Date:	JULY 25, 2018	PROJECT No.:	5-15
Scale:	AS NOTED	SHEET No.	
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Chkd BY:	V.F.	PAGE No.	

BSCAN:

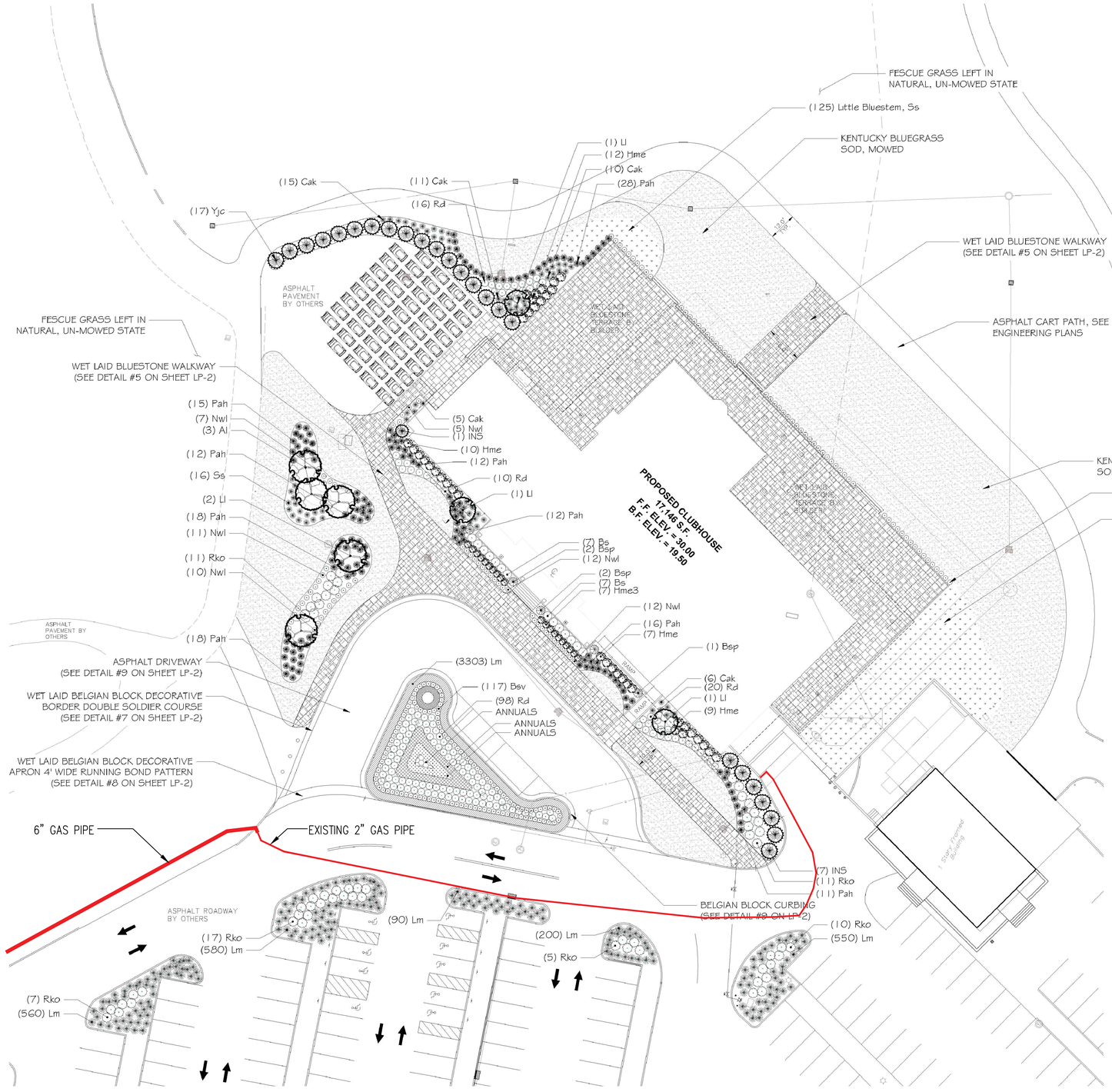

PLANT LIST

SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING
ORNAMENTAL TREES						
Ll	5	Lagerstromia indica	Crapemyrtle	8-10' ht	B&B	As shown
Al	3	Amelanchier laevis	Serviceberry	8-10' ht	B&B	10' o.c.
EVERGREEN TREES						
Yjc	17	Cryptomeria japonica 'Yoshino'	Yoshino Japanese Cedar	10-12' ht	B&B	7-8' oc
IN	9	Ilex x 'Nellie Stevens'	Nellie Stevens Holly	6-7' ht	B&B	7-8' oc
SHRUBS						
Bs	14	Buxus sempervirens	American Boxwood	36-42"	B&B	As shown
Bsp	5	Buxus sempervirens 'Green Pillar'	Green Pillar Boxwood	5'	B&B	As shown
Bsv	177	Buxus sempervirens 'suffruticosa'	Dwarf English Boxwood	3 Gal.	Cont	2-3' OC
Hme	30	Hydrangea macro. 'Endless Summer'	Endless Summer Hydrangea	5 gal	Cont	4' oc
Hme3	17	Hydrangea macro. 'Endless Summer'	Endless Summer Hydrangea	3 gal	Cont	4' oc
Pm	6	Prunus maritima	Beach Plum	24-30" ht	Cont	5' oc
Rd	144	Rosa 'Drift' (peach, coral)	Drift® Roses	2 gal	Cont	3-4' oc
Rko	22	Rosa 'Knockout'	Knockout Rose	5 gal	Cont	4' oc
ORNAMENTAL GRASS						
Cak	36	Calamagrostis acutif. 'Karl Foerster'	Karl Foerster Reed Grass	3 gal	Cont	2-3' oc
Lm	1980	Leymus mollis	American Dune Grass	1 gal	Cont	18-24" oc
Pah	142	Pennisetum alop. 'Hamelin'	Hamelin Fountain Grass	2 gal	Cont	3' oc
Ss	821	Schizachyrium scopanum	Little Bluestem	1 gal	Cont	18-24" oc
PERENNIALS						
Lr	3303	Liriope muscari 'Big Blue'	Lily Turf Grass	Plugs	Plugs	6" oc
Nwl	57	Nepeta 'Walkers Low'	Walker's Low Catmint	1 gal	Cont	2' oc

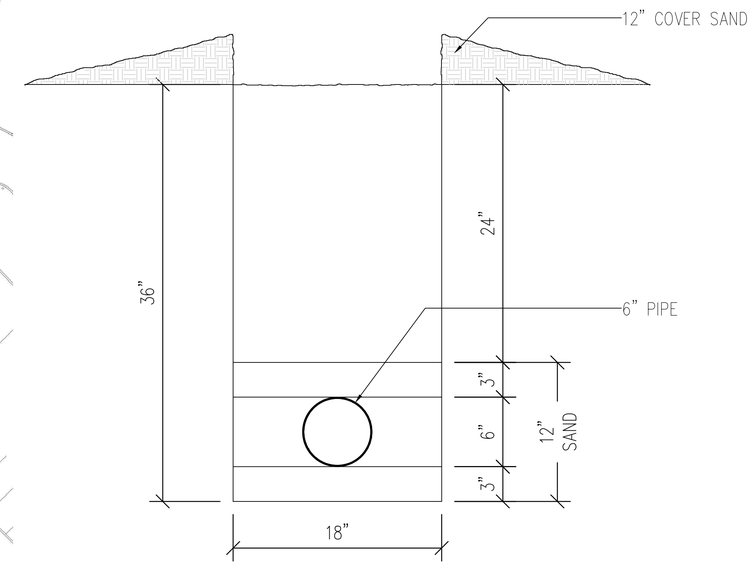

1 NEW 6" GAS SERVICE TRENCHING DETAIL
SCALE: NTS

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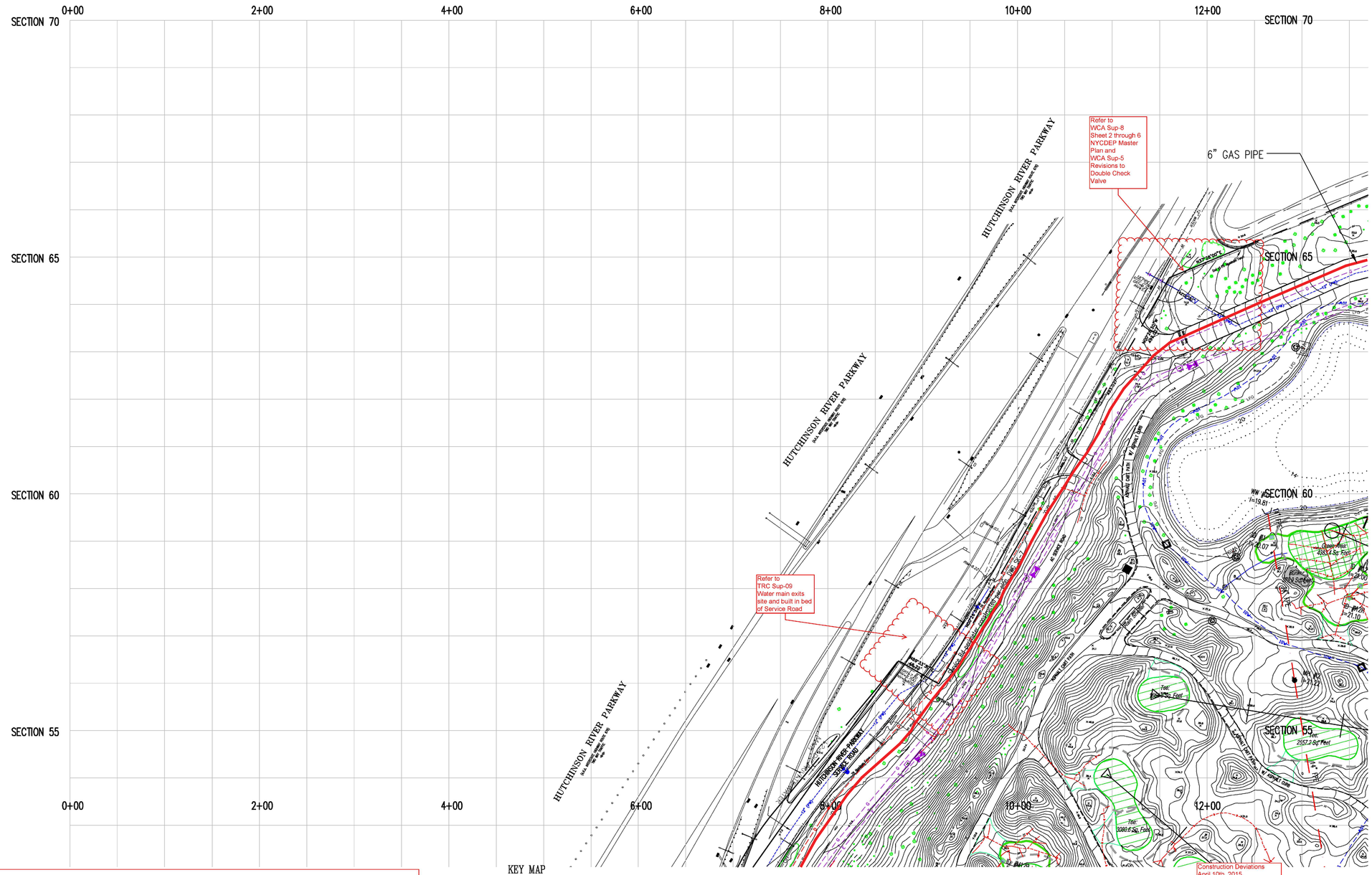

KEY MAP

2	3	4
5	6	7
8	9	10
11	12	

BRONX COORD. SYSTEM

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

Construction Deviations
April 10th, 2015
Revised July 13, 2015 Notes

FERRY POINT GOLF COURSE

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CONTRACT: X126-109M

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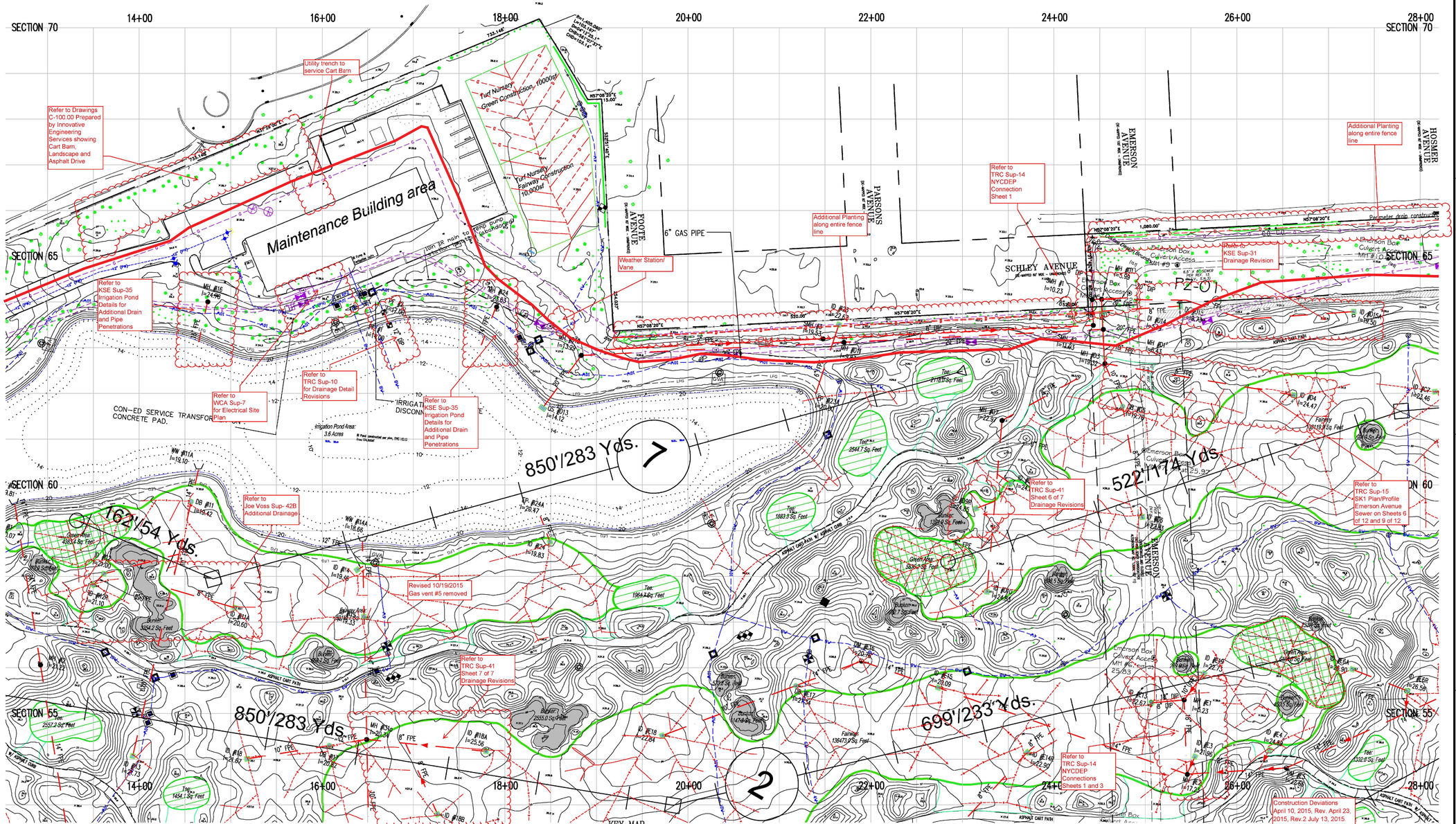

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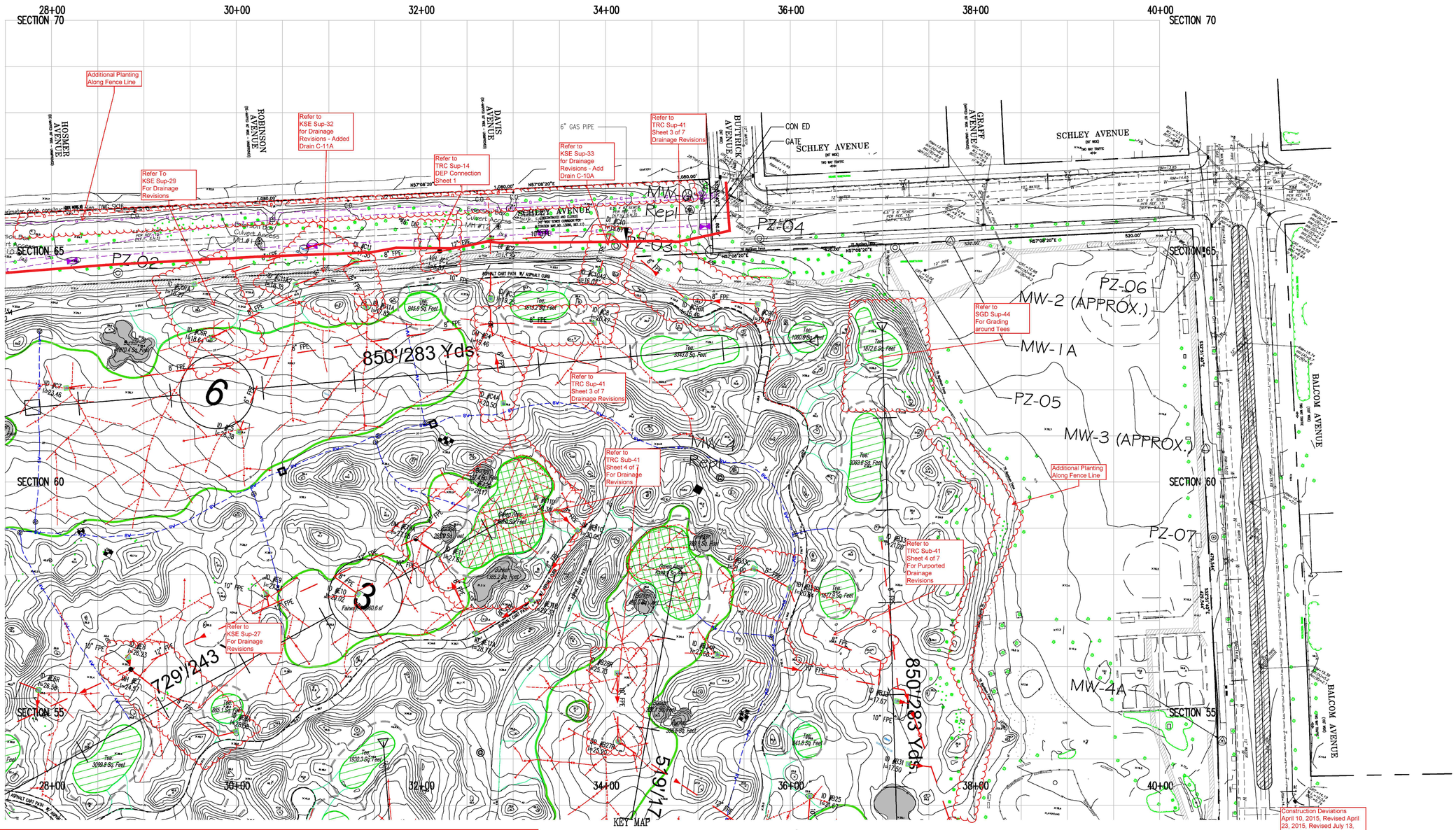

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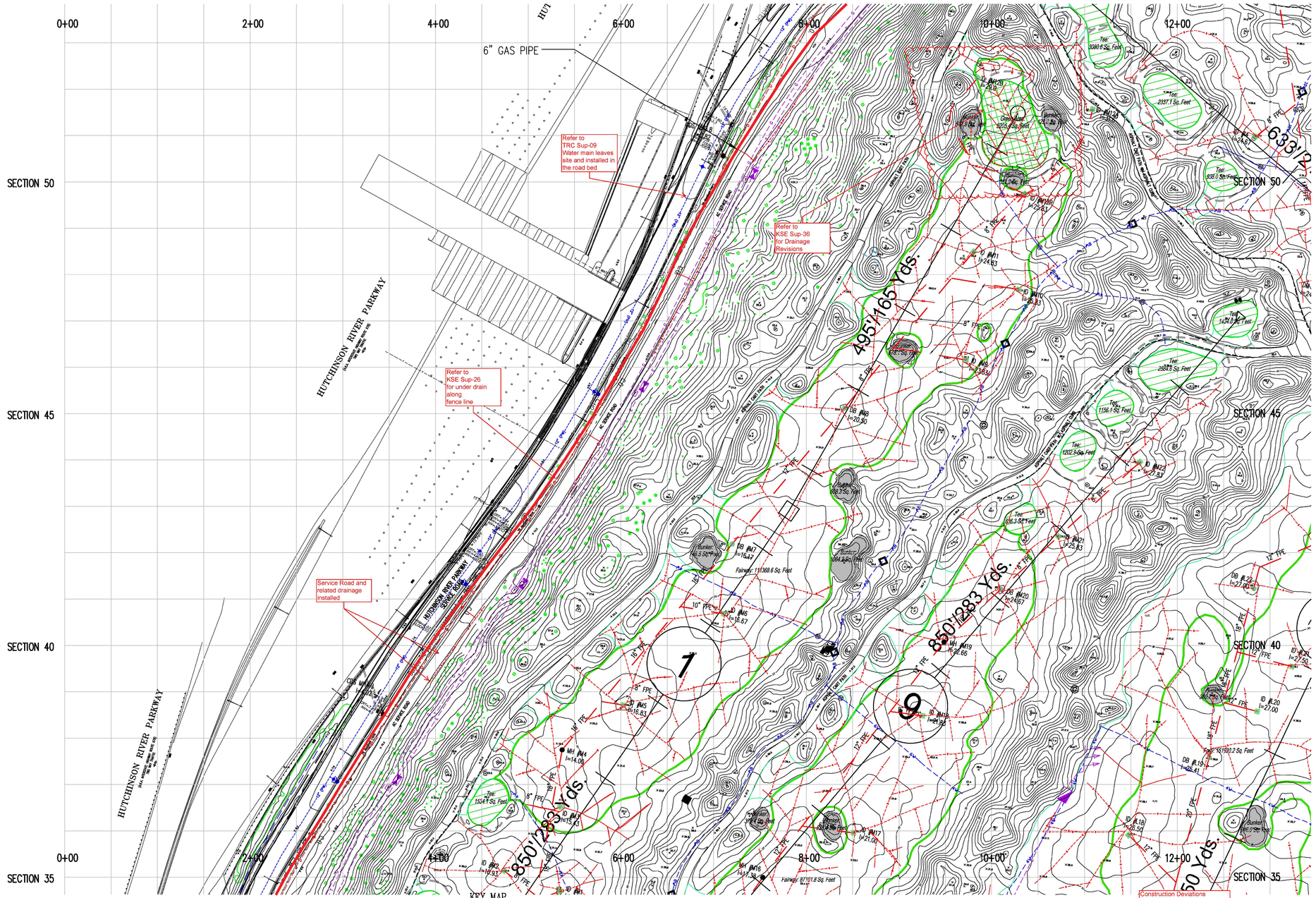

Construction Deviations
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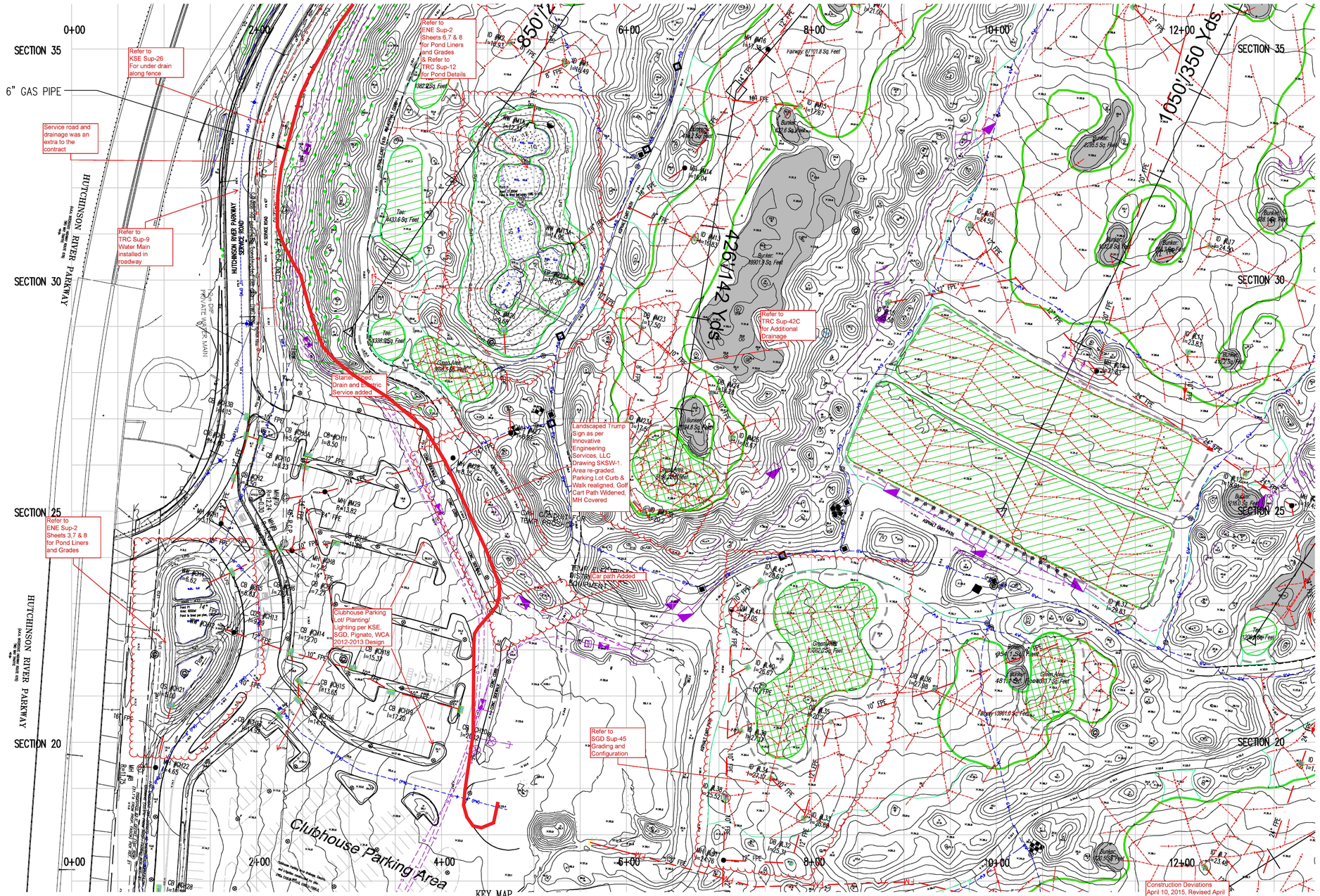

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BSCAN:

APPENDIX R

DORs for Installation of New 6-Inch Gas Line to Clubhouse

MASER CONSULTING P.A.

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Surveyors
Landscape Architects
Environmental Scientists

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DAILY FIELD OBSERVATION REPORT

M T W TH F SA SU **Weather:** Weather **Wind:** 0-5 mph **Humidity** (High Med Low)
Date: 8-24-2018 **Time:** 7:30 **Temp:** 90+

Name of Project: Trump Links Golf Course - Ferry Point **Municipality:** Bronx, NY **Job No:** 17002426C

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Proposed Gas Main installation & excavation

Site Work Progress: Arrived on-site at 7:30am

8:00am - Was informed by that excavation cannot commence until umbrella insurance issue is resolved.

9:00 am laying down plywood and began digging up the telecom line.

10:30am - met with Joe Rodinger. He explained that the demarcation barrier is a caution that says the msw is approximately 1-4 feet below that.

Standard SOP (according to Joe) is that we can dig to depth, replace demarcation barrier with a new one and then sand, pipe, etc.

Demarcation barrier varies from 10"-24". Barrier closest to road has no shaping material on top.

13:15 - Called and spoke to Anthony of Bellisimo, was told I was not needed anymore today.

Remarks: N/A

Site Photographs: Yes **Additional Action Required by Project Mgr. or Eng.: (YES NO)**

Observed By: Vince Carbone **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny** **Wind: breezy** **Humidity**

Date: August 28, 2018 **Time: 0900 - 1500** High Med Low

Temp: 95 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation along the northern side of the golf course just south of Schley Drive.

Site Work Progress: Over 500 linear feet of gas line trench was dug today. Cover material and shaping material was segregated on either side of the trench on plywood sheets for re-use after the gas main is installed.

No readings above background concentration on 4-gas meter or PID.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Customer Loyalty through Client Satisfaction.

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Photo 1: Gas Main Trench along the northern side of the Golf Course south of Schley Drive. Cover and shaping material are segregated on either side of the trench.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny** **Wind: breezy** **Humidity**

Date: August 29, 2018 **Time: 1000 - 1500** High Med Low

Temp: 95 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation along the northern side of the golf course just south of Schley Drive. Gas main pipeline trench was extended southward to the golf cart path.

Site Work Progress: Gas Line trench was extended to its first intersectin with the golf cart path along fairway…Cover material and shaping material was segregated on either side of the trench on plywood sheets for re-use after the gas main is installed.

No air monitoring measurements exceeded background concentrations.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Customer Loyalty through Client Satisfaction.

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Photo 1: Looking northward, Gas Main Trench along the northern side of the Golf Course south of Schley Drive. Cover and shaping material are segregated on either side of the trench.

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Photo 2: Looking southward, the gas line pipeline route-heading south toward the golf cart path- prior to excavation.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Partly sunny** **Humidity**

Date: August 30, 2018 **Time: 6:50am** **Temp: 91** °F (High) Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction

Active Site Work Areas: Construction site for new six-inch gas line

Activities included: Trenching

Site Work Progress: From the endpoint of trenching on 08/29/2018, ~ 100 feet of trenching to a depth of ~ 2 feet was completed along the north side of the 6th fairway cartpath. Sawcutting the asphalt cartpath so that the gas lines crosses over to the inside of the cartpath was postponed to next week. ~ 75 feet of trenching to a depth of ~ 2 feet was then completed on the other side of the cartpath toward the maintenance area (parallel to the 7th tee boxes). Two obstructions (large rock and large piece of formed metal) remain in the 6th fairway trench and are planned prior to laying the gas line.

At regular intervals, the trench bottoms were checked with a 4-gas QRAE Meter. The meter alarm is triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen or methane (as Lower Explosive Limit) are above OSHA exposure limits; the alarm was not triggered for these four gases during today's activities.

Remarks: Site activities concluded at 1430.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (**NO**)

Observed By: Don Bowman Donald Bowman

Reviewed By:
Date:

Customer Loyalty *through* Client Satisfaction

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View of trenching completed along 6th fairway cartpath on 08/30/2018

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View of trenching completed along the cartpath toward the maintenance area (parallel to the 7th tee boxes) on 08/30/2018

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: cloudy** **Humidity**

Date: August 31, 2018 Time: 0710 **Temp: 75 °F** (High) Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: **Bellisimo Masonry & Construction**

Active Site Work Areas: Construction site for new six-inch gas line

Activities included: Trenching

Site Work Progress: From the endpoint of trenching on 08/30/2018 (i.e. near the landfill gas well adjacent to the cartpath leading to the maintenance area), ~ 500 feet of trenching to depths ranging from 2-3 feet (~20-24 inches wide) was completed to near the fire hydrant at the end of the cartpath by the greens nursery and maintenance garage. Irrigation lines were uncovered during excavation at two areas, and a few additional obstructions were discovered that are planned for removal prior to laying the gas line.

At 1300 a ConEd representative (Kevin) arrived on site, and observed the length of the trenching to date (beginning at Schley Avenue), escorted by a Trump Organization representative. The ConEd representative stated that laying the gas piping will begin on Tuesday 09/04/2018 or Wednesday 09/05/2018; 40-foot pipe sections will be fused then laid in the trench with tracer wire and marker balls, then tested (long sections) with 150 psi of air pressure and (upon satisfactory testing results) the trench can be backfilled.

At regular intervals, the trench bottoms were checked with a 4-gas QRAE Meter. The meter alarm is triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are above OSHA exposure limits; the alarm was not triggered for these four gases during today's activities.

Remarks: Site activities were nearing conclusion at 1515.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (**NO**)

Observed By: Don Bowman Donald Bowman

Reviewed By:
Date:

Customer Loyalty *through* Client Satisfaction

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View of trenching completed along the cartpath toward the maintenance area (parallel to the 7th tee boxes) on 08/31/2018

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View of trenching completed along the cartpath approaching the maintenance area on 08/31/2018

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: clear & sunny** **Wind: light & variable** **Humidity**

Date: September 4, 2018 **Time: 1000 - 1400** High Med Low

Temp: 90 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation pipeline: saw cutting in the maintenance area in preparation for trenching.

Also area between Buttrick & Schley is being prepared for pipeline installation by Con Edison.

No PID or four gas meter measurements above background levels.

Site Work Progress: Saw cutting from the cart path into the maintenance area was initiated today (contractor was to have completed this yesterday however they experienced problems with the saw cutting machine).

Con Edison is transporting and staging plastic 6-inch pipe at the trench on the northside of the golf course in preparation for installation.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Looking southward, Gas Main Trench along the northern side of the Golf Course south along golf cart path.

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Photo 2: saw cutting asphalt in the maintenance area.

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DAILY FIELD OBSERVATION REPORT

M T W TH F SA SU **Weather:** Weather **Wind:** 0-5 mph **Humidity** (High Med Low)
Date: 9-5-2018 **Time:** 7:30 **Temp:** 90+

Name of Project: Trump Links Golf Course - Ferry Point **Municipality:** Bronx, NY **Job No:** 17002426C

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Proposed Gas Main installation & excavation

Site Work Progress: Arrived on-site at 7:30am

Upon arrival, gas meter located in Chris' office was not working. Called Pine Environmental and had them deliver a new one.

7:45am - Began preliminary observations, asphalt in front on maintenance garage has been saw cut, had to offset in fron of bay door No. due to natural gas cap.

8:30am - ConEd arrived on-site.

9:15am - Orange Demarcation barrier is being laid down in trench (See attached map for location) (BLUE AREA)

9:20am - 3" of sand is being laid on top of orange demarcation barrier (Checking with measured broom stick handle)

10:00am - Anthony (Bellisimo) began removal asphalt layer from north and east side of the maintenance garage.
10:10am - Measured trench in asphalt - ranged from 36"-42"

Remarks: N/A

~~11:00am - Spoke to ConEd workers, they explained the bonding process. 20 min of intense heat (400-450 degrees)~~ to bond two sections together and 20 minutes for the pieces to cool down before they can be placed in trench.

11:15am - Anthony (Bellisimo) began trenching across golf cart path (See attached map, YELLOW AREA). Steel plate placed over trench.

11:40am - Pine Environmental delivered new gas meter

12:00pm - ConEd front loader broke down, need to replace with new one

13:30pm - New front loader arrives and bonding continues
14:30 - Anthony (Bellisimo) was trenching along east side of maintenance garage. Exposed current 4"gas line (See attached map, GREEN AREA)

15:40pm - Orange demarcation barrier has been laid with 3" of sand on top from Buttrick Avenue to where the trench first crosses the golf cart path (See attached map)

15:45pm - 8 sections of new 6" gas pipe has been bonded and placed in trench.

16:30pm - Trenching has ended for the day

Site Photographs: Yes **Additional Action Required by Project Mgr. or Eng.: (YES NO)**

Observed By: Vince Carbone **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny/Slightly Cloud** **Wind: light to mild** **Humidity**

Date: September 6, 2018 **Time: 0900 - 1630** High Med Low

Temp: 90 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation pipeline: saw cutting, trenching, and backfilling in the maintenance area

Piping welded from Buttrick & Schley Ave to southern golf trail for pipeline installation by Con Edison.

No PID or four gas meter measurements above background levels.

Site Work Progress: Northeastern and northwestern sides of the maintenance building trench backfilled with a minimum of 3" of clean fill. Thickness of the fill measured every 10' throughout an estimated ~170 LF trench. Trench extended on the northwestern side extended ~10 – 20 LF by cutting asphalt and excavating soil material nearby.

Con Edison welding and installing plastic 6-inch pipe at the trench on the northside of the golf course . Note: Areas with <18" of soil above the pipe require steel section above the pipe.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Photo 1: Trench Along Northeastern Maintenance Building

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Photo 2: Trench Along Northeastern Maintenance Building Backfilled

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Photo 3: Northside Trench, Con-Ed Welding & Installation Staging Area

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: cloudy** **Wind: breezy** **Humidity**

Date: September 7, 2018 **Time: 1100 - 1630** High Med Low

Temp: 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation along the northern and western sides of the maintenance facility. Testing of fitting and connections by RECONN. Gas main pipeline trench was saw cut and extended southward toward the golf cart path near the 8th tee box.

Site Work Progress: Gas Line trench was extended to its first intersectin with the golf cart path along fairway…Cover material and shaping material was segregated on either side of the trench on plywood sheets for re-use after the gas main is installed.

No air monitoring measurements exceeded background concentrations.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo 1: Con Ed laborers preparing to install gas line along the northern side of the maintenance facility.

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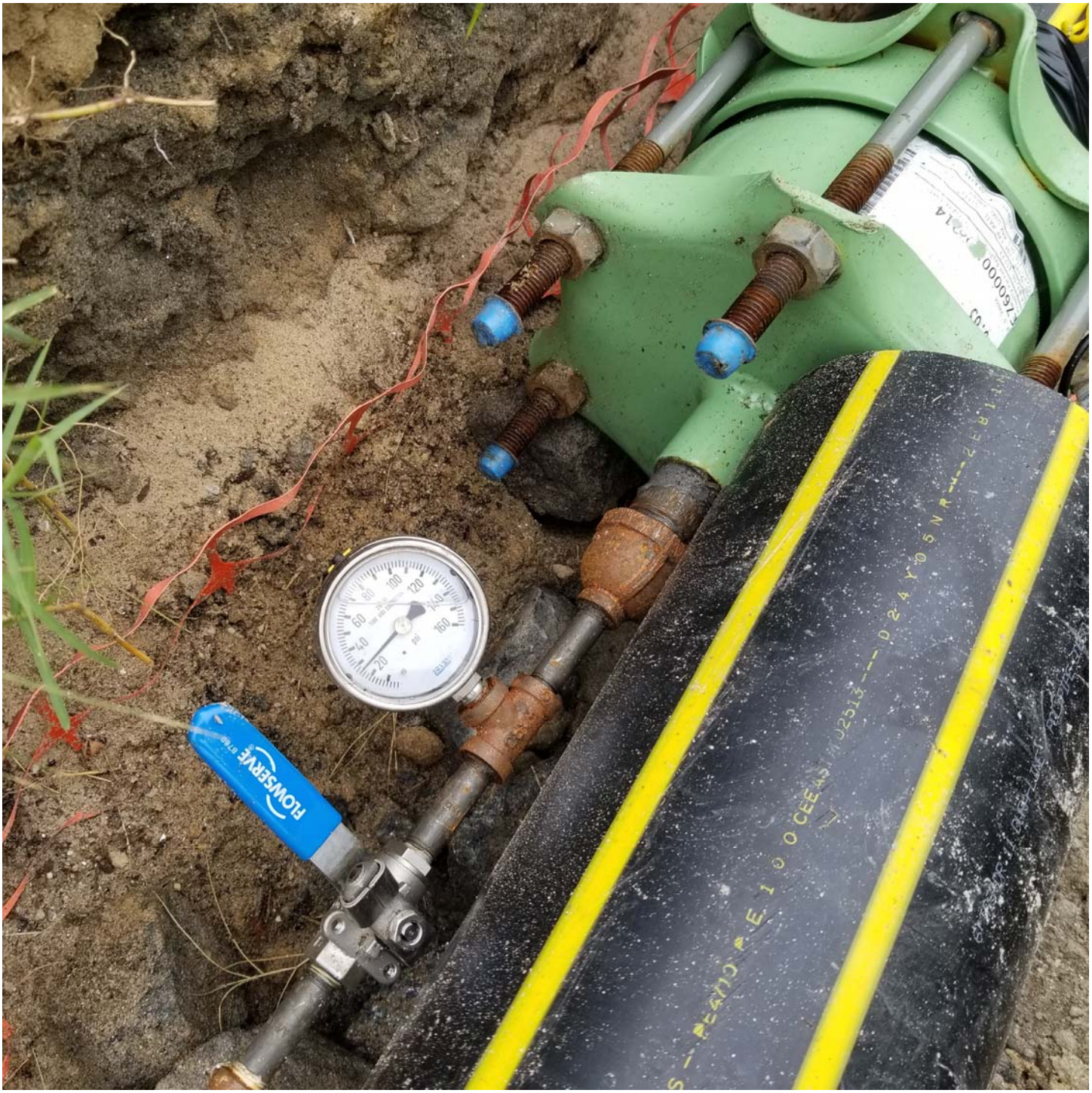

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Photo 2: Pressure tesing of the newly installed 6-inch gas line.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: rain** **Wind: breezy** **Humidity**

Date: September 10, 2018 **Time: 1100 - 1530** High Med Low

Temp: 55 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation along the northern and western sides of the maintenance facility. Testing of fitting and connections by RECONN. Gas main pipeline trench was saw cut and extended southward toward the golf cart path near the 8th tee box. Pipeline installed

Site Work Progress: Gas Line trench was extended to its first intersection with the golf cart path along fairway #8. Backfilling of pipeline in trenches on the northern and western side of the maintenance facility. Weather slowed the progress of work today. All pipes that could be installaed, were installed.

No air monitoring measurements exceeded background concentrations.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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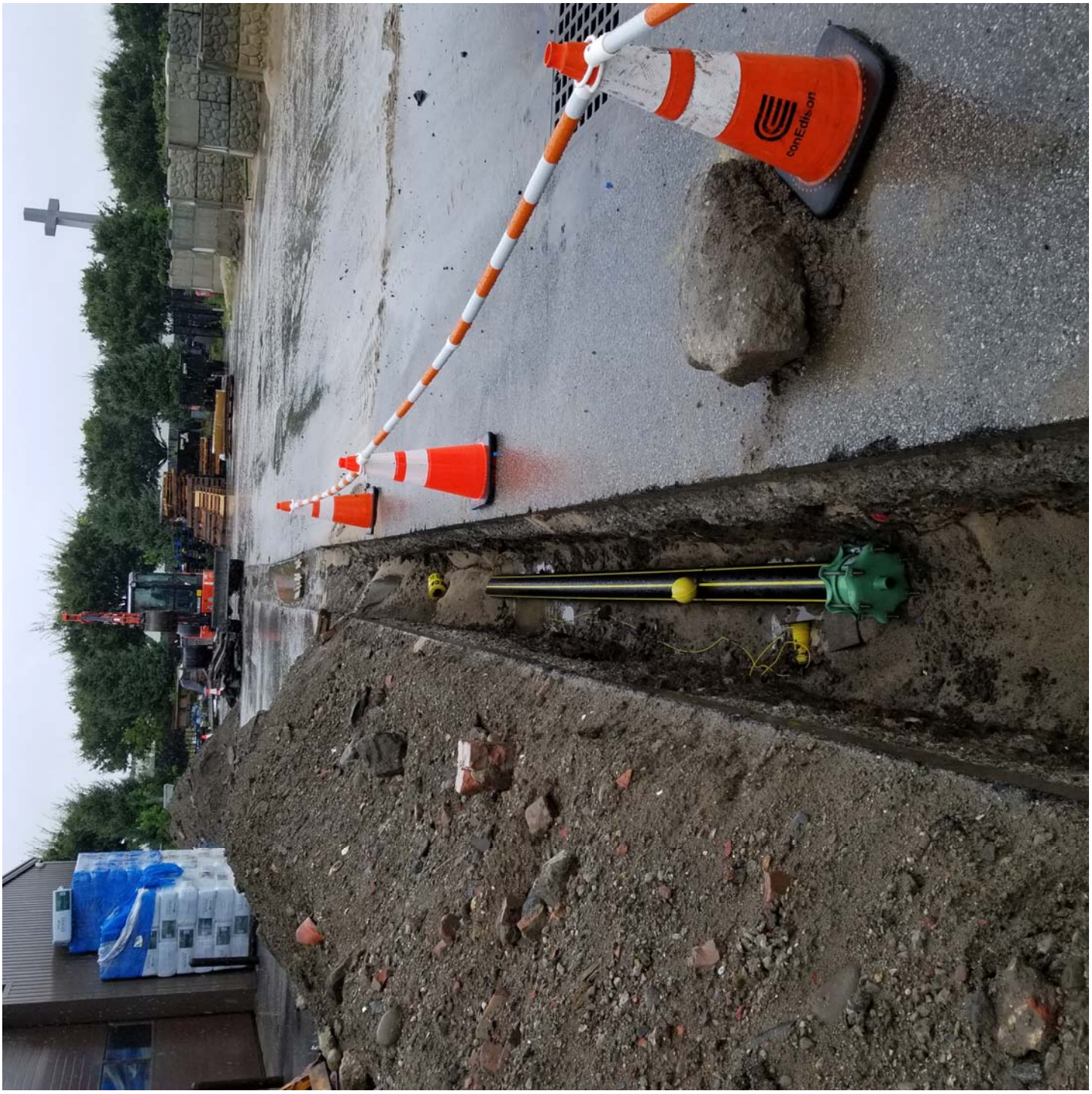

Photo 1:Gas line along the northern side of the maitenace facility.

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Photo 2:Pipeline installation along the west side of the maintenance facility.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast with occasional drizzle** **Wind: calm** **Humidity**

Date: September 11, 2018 **Time: 1030 - 1530** High Med Low

Temp: 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation along the northern side of the maintenance facility northward toward the 7th fairway. Testing of fitting and connections by RECONN. Gas main pipeline along fairway #6 was backfilled to specifications. Approximatley 450 of backfill was completed today.

Site Work Progress: Backfilling of pipeline from the northern side of the golf course southward toward the cart path along Fairway #6. Pipeline installation continued from the maintenance facility northward toward the 7th Tee Box.

No air monitoring measurements exceeded background concentrations.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo 1:Gas line along the northern side of the maitenace facility.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy/Slightly Rainy** **Wind: light to mild** **Humidity**

Date: September 12, 2018 **Time: 0900 - 1700** High Med Low

Temp: 60 - 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation pipeline - Backfilling in the Trenches North of Maintenance Garage

Piping welded around trench bends for pipeline installation by Con Edison.

No 4-gas meter measurements above background levels.

Site Work Progress: Various locations of trenchs were backfilled north of the maintenance building. Toward the northern end of the course near Buttrick & Dewey Ave prior backfilling and near the maintenance building area, clean cover sand was backfilled to a minimum of 3" thick above the gas pipe and shaping material soil was covered over. Areas near the intersection of the golf course were backfilled with a minimum of 3" thick clean fill sand at the base of the trench. Thickness of the clean fill above and below pipes were measured every 10' throughout the trench.

79,500 lbs of clean cover fill from Ranco Sand & Stone was delivered to the site at the maintenance building.

Con Edison welded and installed plastic 6-inch pipe at trench bends near the trail intersection of the gas installation .

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Photo 1: Northern Trench Near Buttrick and Dewey Ave Backfilled to Grade with Shaping S

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Photo 2: Northern Trench Near Maintenance Building Backfilled to Grade with Shaping Soil

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy/Slightly Rainy** **Wind: light to mild** **Humidity**

Date: September 13, 2018 **Time: 0800 - 1500** High Med Low

Temp: 60 - 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation pipeline – Excavating Trenches South of Maintenance Garage toward clubhouse

Piping welded around trench bends for pipeline installation by Con Edison.

No 4-gas meter measurements above background levels.

Site Work Progress: Roughly 500' of trench south of the maintenance building from the rear entrance along the path to the clubhouse was excavated. Trench depth ranged from 30 – 40" below ground surface. Near the fence line of the trench, gravel, plastic piping, and plastic liner was encountered. Roughly 10' of perforated pipe was damaged during the disturbance. The contractor (Anthony) was notified to repair the drainage area. Unmarked utilities were also encountered, but were not damaged beyond the casings. All materials were stocked onto plywood panels along the trench. Shaping layer soil was placed on the far end of the trench, while cover sand soil was placed near the trench for backfilling.

Remaining shaping layer soil from backfilling activities around the maintenance building was stockpiled toward the northwest end of the maintenance building.

Con Edison continued welding and installing plastic 6-inch pipe at trenches north of the maintenance building.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Photo 1: Trench South of Maintenance Building Along Hutchinson River Parkway

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Photo 2: Damaged Perforated Piping from Drainage Area

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: Cloudy/Slightly Sunny** **Wind: light to mild** **Humidity**

Date: September 14, 2018 **Time: 0800 - 1500** High (Med) Low

Temp: 60 - 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation pipeline – Excavating Trenches South of Maintenance Garage toward clubhouse, Backfilling Trenches North of Maintenance Garage

Piping installed in southern trenches by Con Edison.

No 4-gas meter measurements above background levels.

Site Work Progress: Roughly 400' of trench south of the maintenance building along Hutchinson the path to the clubhouse was excavated. Trench depth ranged from 30 – 40" below ground surface. Near the fence line of the trench, gravel, plastic piping, and plastic liner was encountered. Roughly 2' of perforated pipe was damaged during the disturbance. The contractor (Anthony) was notified to repair the drainage area. Portions of the trench were primarily composed of gravel from the runoff drainage system and will be backfilled. Asphalt was cut and concrete was broken up on the eastern rear gate prior to trenching. All materials were stocked onto plywood panels along the trench. Shaping layer soil was placed on the far end of the trench, while cover sand soil was placed near the trench for backfilling.

Roughly 20' of clean cover soil was backfilled over piping in trenches north of the maintenance building to a minimum thickness of 3". Caution tape was placed on top of the backfilled sand.

Con Edison performed a pressure test at the rear gate entrance of the maintenance garage. The test was successful with no leaks in the system. Plastic 6" pipe at trenches south of the maintenance building were installed. The trench was not backfilled with 3" minimum of bedding. Anthony and Con Edison were notified that clean cover sand must be backfilled on the bedding of the trench either prior to installation or worked around the piping. Con Edison responded that the bedding will be installed.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By:
Date:

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Photo 1: Trench South of Maintenance Building Along Hutchinson River Parkway

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Photo 2: Piping Installed in Trench near Rear Entrance Gate, Asphalt and Concrete to be Trenched.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny/Slightly Cloudy** **Wind: light to mild** **Humidity**

Date: September 13, 2018 **Time: 0800 - 1500** **Temp: 60 - 70 °F** High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation pipeline – Excavating Trenches South of Maintenance Garage toward clubhouse, Backfilling Trenches North of Maintenance Garage

Piping installed in southern trenches by Con Edison.

No 4-gas meter measurements above background levels.

Site Work Progress: Roughly 250' of trench south of the maintenance building along Hutchinson the path to the clubhouse was excavated. The trench was generally excavated on the inner fence line limits within the surface water drainage system area, which consisted of gravel, perforated ppe, and geotextile. The trench was generally ~36" below ground surface. Roughly 6' of perforated pipe was observed to be damaged during the trenching and scattered geotextile pieces. The contractor (Anthony) was notified to repair the drainage areas prior.

Asphalt was cut and concrete was broken up on the eastern rear gate prior to trenching the area in preparation of Con Edison's pipe installation. Broken up asphalt and concrete were stockpile separately for disposal. Remaining materials were stockpiled onto plywood panels along the trench or across the asphalt trail, as applicable.

Roughly 80' of clean cover soil was backfilled over piping in trenches north of the maintenance building to a minimum thickness of 3". Caution tape was placed on top of the backfilled sand.

Plastic 6" pipe at trenches south of the maintenance building were installed. The trenches were not initially backfilled with 3" minimum of bedding. Anthony and Con Edison are aware that clean cover sand must be backfilled on the bedding of the trench either prior to installation or worked around the piping. Con Edison responded that the bedding will be installed.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
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Photo 1: Trench South of Maintenance Building Along Hutchinson River Parkway (~1/2 Length from Rear Gate to Clubhouse, Gravel & Runoff Sand Excavated and stockpiled)

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Photo 2: Trench Between Buttrick & Dewey Ave and trail Crossroad backfilled with minimum of 3" thick clean Sand (Backfill subsequently leveled and caution tape placed on top)

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather; Variable with heavy rains** **Wind: moderate** **Humidity**

Date: September 18, 2018 **Time: 1000 - 1400** **Temp: 75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation and Trenching along the cart path adjacent to Fairway #8.

No 4-gas meter measurements above background levels.

Site Work Progress: Work was slowed to to heavy rains that were once Hurrican Florence. Trenching was advanced on the western side of the cart path near Fairway #8. Con Edison installed 6-inch gas line sections along this same route. Section couplings were tested and approved by RECONN.

Trenching operation is approximately 800 feet ahead of the pipeline installation.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Con Edison installing 6 inch pipeline section west of the cart path near Fairway #8.

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Photo 2: Trench on the east side of the cart path adjacent to Fairway #6 is backfilled.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather; mostly sunny and warm** **Wind: light & variable** **Humidity**

Date: September 19, 2018 **Time: 1000 - 1500** **Temp: 70-75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation and Trenching along the cart path adjacent to Fairway #8.

No 4-gas meter measurements above background levels.

Site Work Progress: Gas line installation work continued along the utility cart path adjacent to Fairway #8. Con Edison crews were short manpower as most were getting re-certified for pipeline work installations. Bellisimo continued trenching and backfilling as appropriate.

To date: approximately 4,000 feet has been trenched; 2,800 feet has had pipeline installed, pressure tested and backfilled; 900 feet of open trench with pipe tested but not backfilled; 300 feet of open trench ready for pipeline installation.

Approximatley 1,000 feet of trenching remains.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather; mostly sunny** **Wind: light & variable** **Humidity**

Date: September 20, 2018 **Time: 1000 - 1500** **Temp: 70 °F** High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation and Trenching along the cart path adjacent to Fairway #8 up to the intersection with the parking lot.

No 4-gas meter measurements above background levels.

Site Work Progress: Gas line installation work continued along the utility cart path adjacent to Fairway #8 and up to the parking lot. Con Edison crews worked to weld, install and pressure test to pipe sections-monitoring by RECONN. Bellisimo continued trenching and backfilling as appropriate.

To date: approximately 4,500 feet has been trenched

Approximatley 500 feet of trenching remains. Trump is awaiting word from the engineer how close the new pipeline needs to to get to the new clubhouse to have sufficient gas supply.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT

M T W TH F SA SU **Weather: Cloudy** **Wind: 10-15mph** **Humidity** (High Med Low)
Date: 9/21/2018 **Time: 7:30am**
Temp: 65 degrees

Name of Project: Trump Links Gas Main **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Bellisimo Construction, ConEdison

Active Site Work Areas:

Site Work Progress: **Trenching began along west side of entrance to service road.**
Trenching extended to wrap around to the front of the "Trump Links" sign
Began ripping up asphalt to connect to current gas box
Encountered water from either irrigation lines or rainfall in trench
ConEd connected gas main and pressure tested it (Passed)
Backfilled areas include only across the service road to allow access for cars

Remarks: N/A

Site Photographs: Yes **Additional Action Required by Project Mgr. or Eng.: (YES NO)**

Observed By: VJC **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather; mostly cloudy & wiindy** **Wind: windy** **Humidity**

Date: September 24, 2018 **Time: 1000 - 1500** **Temp: 60-65** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation and Trenching extended to the Trump Links sign and across the driveway to the gas vault. Con Edison continued to weld sections of pipeline, install and test with RECONN inspections.

No 4-gas meter measurements above background levels.

Site Work Progress: Gas line installation trenching is almost completed. Con Edison crews worked to weld, install and pressure test to pipe sections-monitoring by RECONN. Bellisimo continued trenching and backfilling as appropriate.

To date: approximately 5,000 feet has been trenched

Con Edison engineer indicated that the because a 6-inch line was intstalled instead of a 4-inch line there will be a sufficient volume of fuel for the new clubhouse.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Photo 1: Gas Main Trench is extended beyond the Trump Links Sign to the gas vault.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: heavy rain** **Wind: gusty** **Humidity**

Date: September 25, 2018 **Time: 1200 - 1500** **Temp: 65-70** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation and Trenching in front of New Club House

No 4-gas meter measurements above background levels.

Site Work Progress: Heavy rain hampered work progress today.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Photo: 1 Trenching in front of the new club house.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny & warm** **Wind: light & variable** **Humidity**

Date: September 26, 2018 **Time: 1200 - 1500** **Temp: 75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison

Active Site Work Areas: Gas Main Installation and Trenching in front of New Club House. Attempts made to locate existing gas service to connect it to the new 6 inch main.

No 4-gas meter measurements above background levels.

Site Work Progress: Backfilling of trench in front of new clubhouse after pipeline installation and testing by Con Edison. Locate existing 2-inch service line so that it can be connected to the new 6-inch gas main.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Photo: 1 Trenching in front of the new club house.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny & warm** **Wind: calm** **Humidity**

Date: October 1, 2018 **Time: 1200 - 1400** **Temp: 70** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: topping of backfilled areas with cover material to bring grade a minimum of 27" above the top of the gas line. Cover material was imported from Ranco Sand & Stone.

No 4-gas meter measurements above background levels.

Site Work Progress: areas of the gas line on the northern side of the golf course were prepared with cover material. Work areas include the gas line route along Fairways #6 and #7.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Photo: 1 Cover material from Ranco S&S placed over the gas line to provide adequate cover thickness.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny & warm** **Wind: calm** **Humidity**

Date: October 2, 2018 **Time: 1200 - 1400** **Temp: 75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: topping of backfilled areas with cover material to bring grade a minimum of 27" above the top of the gas line. Cover material was imported from Ranco Sand & Stone. Miscellaneous work throughout the job site as Con Edison was not on-site today.

No 4-gas meter measurements above background levels.

Site Work Progress: areas of the gas line on the northern side of the golf course were prepared with cover material. Work areas include the gas line route along Fairways #6, #7 and #8.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Photo: 1 Cover material at pipeline route adjacent to Fairway #7.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny & warm** **Wind: calm** **Humidity**

Date: October 3, 2018 **Time: 1200 - 1400** **Temp: 75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: topping of backfilled areas with cover material to bring grade a minimum of 27" above the top of the gas line. Cover material was imported from Ranco Sand & Stone. Miscellaneous work throughout the job site as Con Edison was not on-site today.

No 4-gas meter measurements above background levels.

Site Work Progress: areas of the gas line on the northern side of the golf course were prepared with cover material. Work areas include the gas line route along Fairways #6, #7 and #8.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Photo: 1 Cover material at pipeline route adjacent to Fairway #6.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast & warm** **Wind: calm** **Humidity**

Date: October 9, 2018 **Time: 1000 - 1500** **Temp: 70- 75 °F** High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas:Bellision Construction worked the gas pipeline route along side Fairway #6 adding sufficient cover material and grading. Additional landscaping work was conducted in from of the "Trump Links' sign. Con Edison workers were staged on the roadway north of the golf course-opening the roadway in preparation to make the connection with the gas main at Schley and Buttrick.

No 4-gas meter measurements above background levels.

Site Work Progress: Most of the cover material along side Fairway #6 was placed above the new gasline-elevating the area as per the design specifications. Excavations in the road north of the golf course were slow and meticulous due to the abundance of underground utilities.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Photo: 1 Cover material at pipeline route adjacent to Fairway #6.

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Photo #2: excavations to connect the new gas line with the existing main

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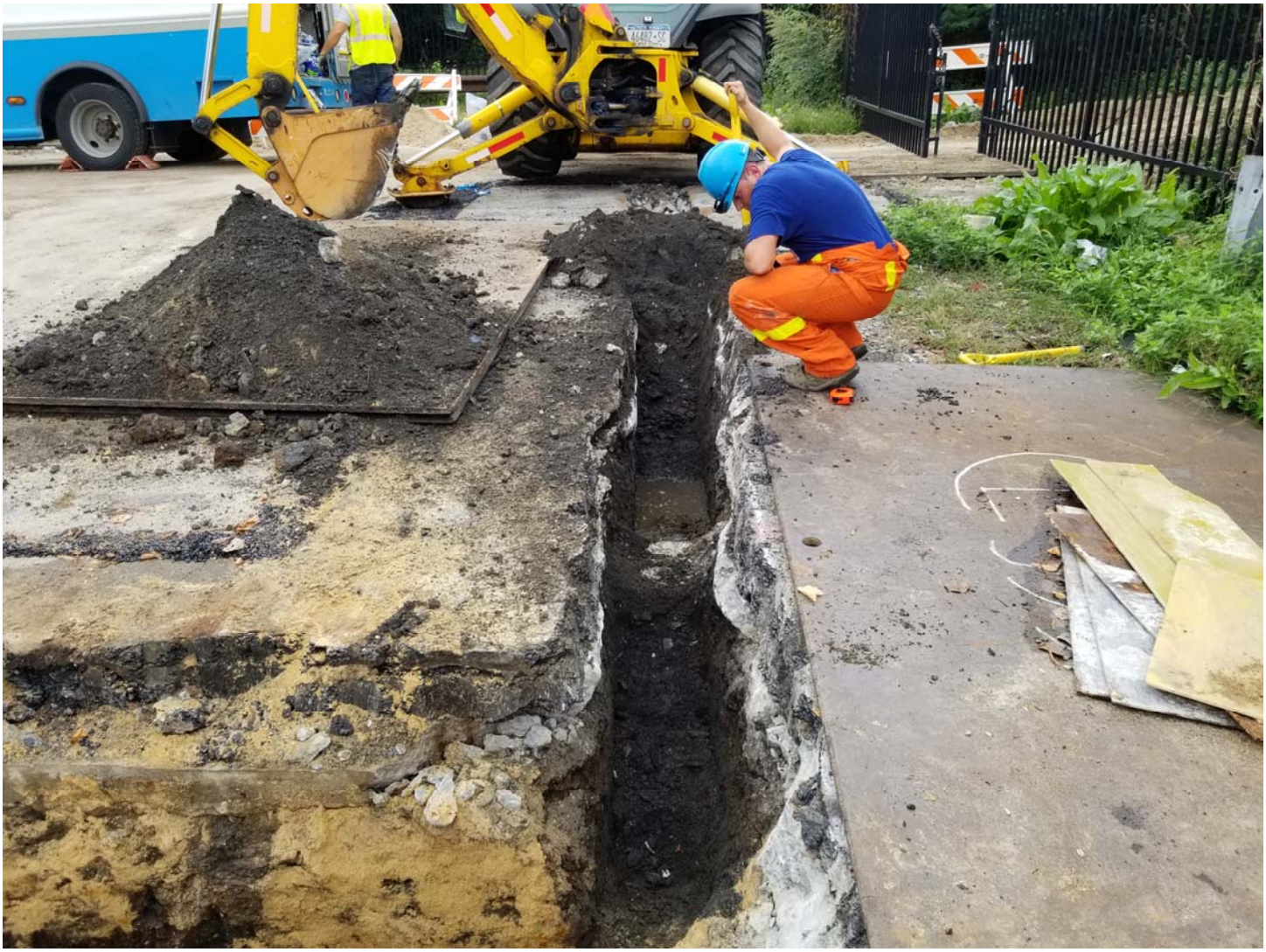

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny & warm** **Wind: light** **Humidity**

Date: October 10, 2018 **Time: 1030 - 1430** **Temp: 75-78 °F** High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Bellision Continue construction work along the gas pipeline route along side Fairway #6 adding sufficient cover material and grading. Additional landscaping work was conducted in from of the "Trump Links' sign. Con Edison workers were not on-site today.

No 4-gas meter measurements above background levels.

Site Work Progress: Most of the cover material along side Fairway #6 was placed above the new gasline-elevating the area as per the design specifications. Excavations in the road north of the golf course have been backfilled. Con Edison was not on-site today so the schedule for the new gas line to be connectred to the Main is unclear.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 Cover material at pipeline route adjacent to Fairway #6.

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Photo #2: Area where the new gas line will be connected to the existing main.

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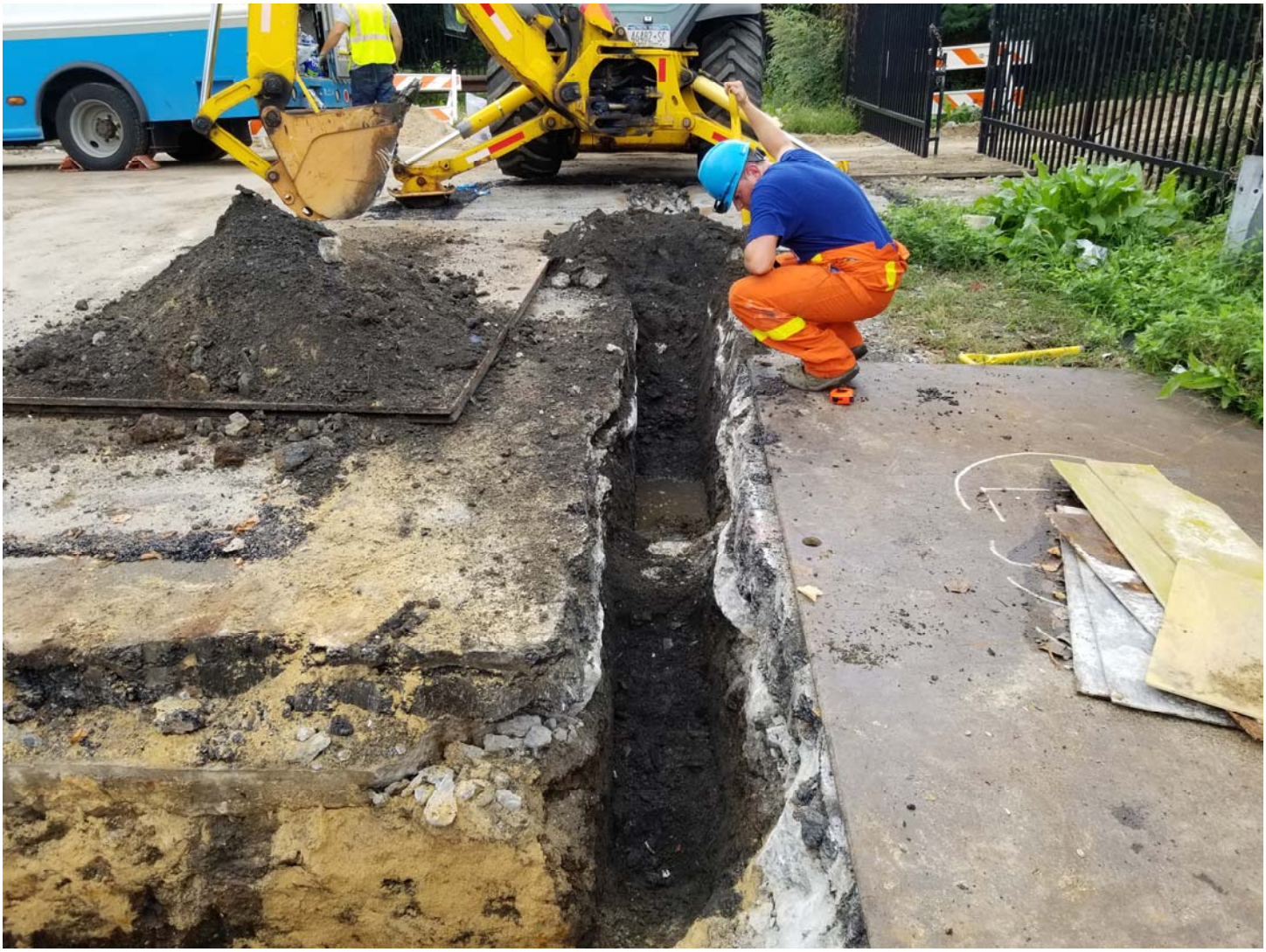

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: cloudy & mild** **Wind: steady winds** **Humidity**

Date: October 15, 2018 **Time: 1030 - 1430** **Temp: 65** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Bellisimo continues miscellaneous construction work along the gas pipeline route along side Fairway #6 adding sufficient cover material and grading. Additional landscaping work was conducted in front of the "Trump Links' sign. Con Edison workers were not on-site today.

No 4-gas meter measurements above background levels.

Site Work Progress: Most of the cover material along side Fairway #6 was placed above the new gasline-elevating the area as per the design specifications. Excavations in the road north of the golf course have been covered with protective steel road plates. Con Edison was not on-site today so the schedule for the new gas line to be connected to the Main is unclear. Cover material was staged in the vicinity of open excavations so that it's ready to be deployed as soon as Con Edison makes the final gas line connections.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo: 1 Cover material staged at the northern end of the pipeline route inpreparation for the connection to the gas main at Buttrick & Schley .

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Photo #2: Area where the new gas line will be connected to the existing main.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather:mostly sunny** **Wind: steady winds** **Humidity**

Date: October 16, 2018 **Time: 1130 - 1430** **Temp: 50-55** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony) (offsite)

Active Site Work Areas: Bellisimo continues miscellaneous construction work along the gas pipeline route along side Fairway #6 adding sufficient cover material and grading—although they were no observed to be on-site today. Additional landscaping work was conducted in from of the "Trump Links' sign. Con Edison workers were not on-site today. Gas Main connection still needs to be accomplished at Buttrick & Schley and at the Club House.

No 4-gas meter measurements above background levels.

Site Work Progress: Most of the cover material along side Fairway #6 was placed above the new gasline-elevating the area as per the design specifications. Excavations in the road north of the golf course have been protected with steel road plates. Con Edison was not on-site today so the schedule for the new gas line to be connected to the Main is unclear. Cover material was staged in the vicinity of open excavations so that it's ready to be deployed as soon as Con Edison makes the final gas line connections.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo: 1 Steel road plates cover the gas line excavation trench at Buttrick & Schley .

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Photo #2: Area where the new gas line will be connected to the existing service branch for the club house.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: clear & sunny** **Wind: steady winds** **Humidity**

Date: October 18, 2018 **Time: 1100 - 1530** **Temp: 45** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Bellisimo continues miscellaneous construction work along the gas pipeline route along side Fairway #6. They are also restoring the cart path adjacent to Fairway #6.

Con Edison makes the connection of the 6-inch Gas Line to the 2-inch supply line near the new club house. RECONN inspects and tests all joints and connections.

No 4-gas meter measurements above background levels.

Site Work Progress: Most of the cover material along side Fairway #6 was placed above the new gasline-elevating the area as per the design specifications. Excavations in the road north of the golf course have been protected with steel road plates. Con Edison was on-site today and made the connection of the 6-ich gas line to the 2-inch supply line near the club house.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo: 1 Con Edison making the connection of the 6-inch gas line to the 2-inch supply line near the Club house.

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Photo #2: Bellisimo working on the cart path adjacent to Fairway #6/Tee Box for Hole #7.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: mostly sunny & mild** **Wind: light** **Humidity**

Date: October 19, 2018 **Time: 1200 - 1530** **Temp: 55 °F** High (Med) Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Bellisimo continues miscellaneous construction work along the gas pipeline route at multiple locations.

Con Edison makes the connection of the 6-inch Gas Line to the main gas line at the intersection for Buttrick & Schley. RECONN inspects and tests all joints and connections.

No 4-gas meter measurements above background levels.

Site Work Progress: the new 6-inch gas line has now been connected to the gas main. Following testing, the new 5,000 foot gasline can be activated.

Site Photographs: Yes (No)

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Dave Keil **Reviewed By:**
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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly overcast skies** **Wind: breezy** **Humidity**

Date: October 22, 2018 **Time: 1200 - 1500** **Temp: 50- 55** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: No contractors on site today

Active Site Work Areas: No active work areas as contractors were not onsite today. Open trenches at the new clubhouse and the connection point for the gas line we checked for air quality.

No 4-gas meter measurements above background levels.

Site Work Progress: Contractors were not on-site today. Air quality measurements were collected at open trenches at the northern and southern end of the pipeline route. No measurements recorded above background levels.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo: 1 Gas Line connected at northern end of pipeline route.

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Photo #2: Pipeline connection area at southern end of pipeline route near the new clubhouse.

E-11

Bally's Bronx
Change of Use Work Plan
Prepared by: Langan Engineering

LANGAN

Department of Environmental Conservation

KATHY HOCHUL
Governor

AMANDA LEFTON
Acting Commissioner

April 30, 2025

Karen L. Mintzer
Mintzer Mauch PLLC
290 Madison Avenue, 4th Floor
New York, NY 10017

Re: Review of Bally's Casino Project at Ferry Point Park

Dear Karen Mintzer:

The New York State Department of Environmental Conservation ("Department") has reviewed Bally's proposal to construct a new casino on the site of the closed Ferry Point Park Landfill in the Bronx. The consultant for Bally's has submitted a proposed change of use plan for an approximately 18-acre portion of the Ferry Point Park landfill. We understand the plans are currently preliminary. However, based on the information submitted to the Department, the Department expects that the change of use plan can likely be approved once it is updated to reflect and include the final foundation, support of excavation and site cover plans. At that time, the Department will review the updated change of use plan and work with the consultant to address any issues.

If you have any questions, please contact me at (718) 482-4996 or via email at paul.sierzenga@dec.ny.gov.

Sincerely,

Paul Sierzenga P.E.

Paul Sierzenga, P.E.
Regional Materials Management Supervisor

CHANGE OF USE WORK PLAN

for

PROPOSED BALLY'S CASINO
at FERRY POINT PARK
Bronx, New York 10465

Prepared for:

Bally's Corporation
100 Westminster Street
Providence, Rhode Island 02903

Prepared by:

Langan Engineering, Environmental, Surveying,
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March 5, 2025
170773001

LANGAN

CERTIFICATIONS

I, Jason Hayes, P.E., certify that I am currently a New York State (NYS) registered professional engineer as defined in Title 6 of the New York Codes, Rules and Regulations (6 NYCRR) Part 360 and that this Change of Use Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Part 360 Solid Waste Management Facilities General Requirements, Subpart 363-3, Section 363-9 - Closure, Post-Closure, and Custodial Care.

Jason Hayes	3-5-2025	
NYS Professional Engineer #089491	Date	Signature

It is a violation of Article 145 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 145, New York State Education Law.

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EXECUTIVE SUMMARY

This Change of Use Work Plan (COUWP) was prepared on behalf of Bally's New York Operating Company, LLC ("Bally's") for the proposed development site consisting of an approximately 18.38-acre portion of the Bally's Golf Links at Ferry Point in the Bronx (the "Development Site"). The public Bally's Golf Links at Ferry Point Golf Course (the "Golf Course"), which is licensed to Bally's, is located within the larger 413.8 public Ferry Point Park ("FPP"). FPP is bisected by the Whitestone Bridge and the Hutchison River Expressway. Most of the area of the FPP east of the Whitestone Bridge (approximately 222-acres) was formerly used as a municipal solid waste landfill. The Development Site is part of Bronx Block 5622, Lot 1, and is currently improved with the Golf Course clubhouse, parking lot, a portion of the Golf Course practice area, and landscaped areas.

FPP is part of the New York City (NYC) Parks system and, except for the Golf Course, which is operated by Bally's, FPP is operated and maintained by NYC Parks' Borough of the Bronx Operations and Maintenance division. In 2000, the New York State Department of Environmental Conservation (NYSDEC) issued Part 360 Permit No. 2-6006-00014 (the "Part 360 Permit") to allow the import and placement of nonhazardous regulated fill and soil that was necessary to construct the Golf Course, Community Park and Waterfront Park. In 2013, the NYC Department of Parks and Recreation (NYCDPR) prepared a Post Construction Custodial Care Plan (PCCCP) to comply with the requirements of the Part 360 Permit and to define the post-construction criteria applicable to operate, monitor, and maintain the environmental protection systems installed at the former landfill. NYCDPR is responsible for implementing the PCCCP. In addition, a Declaration of Covenants and Restrictions was recorded against the former landfill property that requires written authorization be obtained from NYSDEC for a change of use other than for the project described in the Part 360 Permit.

<u>Proposed Development</u>

The proposed development on the Development Site includes demolition of existing structures to facilitate the development of a an approximately 3,093,880 -gross-square-foot (gsf) gaming facility with approximately 5,146 gaming positions stations, a 500-key hotel, approximately 6,100 gsf of retail space, a 2000-seat multi-purpose event and entertainment venue, an approximately 2,000-square-foot police substation, and parking for 4,660 vehicles. A replacement stand-alone golf clubhouse would also be constructed within the Development Site, just north of the gaming facility, and the Golf Course would continue to be operated by Bally's and would remain open to the public. In connection with the gaming facility, but outside the 18.38-acre Development Site, the uninterrupted circular roadway within FPP that connects the southbound and northbound Hutchinson River Expressway service roads (herein referred to as Ring Road) will be widened and improved in coordination with the New York City Department of Transportation (NYCDOT).

Supplemental roadway improvements will be undertaken to improve circulation near the Development Site.

To enable the proposed development, the 18.38-acre site will be the subject of State legislation authorizing its alienation so that it can be transferred to Bally's and used for non-park use. In connection with the alienation, Bally's intends to transfer to-be-identified properties to New York City for use as new parkland and provide upgrades to existing parkland. Ring Road is also currently parkland; therefore, it will also be the subject of State alienation legislation to allow it to be transferred to the NYCDOT for use as a public roadway.

The proposed development will also require New York City approvals through the Uniform Land Use Review Process, currently underway. A Draft Environmental Impact Statement (DEIS) for the proposed development prepared in accordance with the City Environmental Quality Review was issued by the lead agency, the Office of the Deputy Mayor for Housing, Economic Development and Workforce on January 17, 2025. The proposed development will also require approval by the New York State Gaming Facility Location Board and issuance of a gaming license from the New York State Gaming Commission. Per the casino licensing process established by the New York State Legislature in 2022, all applicants for a downstate gaming license must substantially complete all approval processes before the Gaming Facility Location Board will review the application, which is due June 2025.

Construction Plan Summary

Construction of the proposed development will begin after written authorization from NYSDEC for a change of use, and receipt of all other required approvals, including a gaming license. Construction is expected to commence in 2027. Based on the anticipated schedule, the development is anticipated to be complete by 2030.

Construction will include the following elements:

- Development and implementation of a Health and Safety Plan (HASP) for protection of on-site workers, and a Community Air Monitoring Program (CAMP) for protection of community/residents and the environment during construction activities
- Implementation of preliminary waste characterization, as required, including lateral delineation sampling of the Development Site to facilitate off-site disposal or reuse of excavated material
- Implementation of soil erosion, pollution, and sediment control measures in compliance with applicable laws and regulations
- Maintaining to the extent feasible, decommissioning, replacing in kind, or relocating the existing landfill infrastructure within the bounds of the Development Site

- Demolition of the existing structures to facilitate excavation
- Construction of a support of excavation (SOE) system to facilitate the development
- Excavation, stockpiling, re-use, off-site transport, and appropriate disposal of soil
- Screening for indications of contamination (by visual means, odor, and monitoring with a photoionization detector [PID]) of excavated material during intrusive site work
- Importation of clean fill meeting NYSDEC Part 375 Restricted-Residential Use (RRU) Soil Cleanup Objectives (SCOs), virgin stone, or recycled concrete aggregate (RCA), or virgin, native crushed stone to backfill excavated areas to development depth (if necessary) or for use in ramps or sub-base
- Establishment of use restrictions (i.e., institutional controls [ICs]) including prohibition on site groundwater use and prohibitions on sensitive site uses, such as farming or vegetable gardening
- Construction of engineering controls (ECs), including installation of a composite cover system and sub-membrane depressurization (SMD) system to mitigate potential soil vapor intrusion
- Establishment of a new PCCCP reflecting the new use and providing for the long-term management of ECs and ICs for the Development Site by Bally's, including the performance of periodic inspections and certification that the controls are performing as intended
- Amendment of the existing PCCCP to exclude the Development Site, but continue the long-term management of ECs and ICs within the remainder of the former landfill area by NYCDPR, including the performance of periodic inspections and certification that the controls are performing as intended
- Amendment of the Declaration of Covenants and Restrictions to allow the new use on the Development Site

1. INTRODUCTION

This Change of Use Work Plan (COUWP) was prepared on behalf of Bally's New York Operating Company LLC ("Bally's") for the proposed development site consisting of an approximately 18.38-acre portion of Ferry Point Park (FPP) that is part of Bronx Block 5622, Lot 1 (the "Development Site"). FPP is 413.8 acres and is bisected by the Whitestone Bridge and the Hutchinson River Expressway. The area of FPP to the east of the Whitestone Bridge was formerly used as a municipal solid waste landfill. The Development Site is within Bally's Golf Links at Ferry Point Golf Course (the "Golf Course"), which is licensed to Bally's by the New York City Department of Parks and Recreation (NYCDPR). The Development Site is currently improved with the Golf Course clubhouse, parking lot, a portion of the Golf Course practice area, and landscaped areas. A site location map is provided as Figure 1.

FPP is part of the New York City (NYC) Parks system and, except for the Golf Course, is operated and maintained by NYCDPR's Borough of the Bronx Operations and Maintenance division. In 2000, the New York State Department of Environmental Conservation (NYSDEC) issued Part 360 Permit No. 2-6006-00014 (the "Part 360 Permit") to allow the import and placement of nonhazardous regulated fill and soil that was necessary to construct the Golf Course, a Community Park and a Waterfront Park. In 2013, the NYCDPR prepared a Post Construction Custodial Care Plan (PCCCP) to comply with the requirements of the Part 360 Permit and to define the post-construction criteria applicable to operate, monitor, and maintain the environmental protection systems installed at the former landfill. NYCDPR is currently responsible for implementing the PCCCP. In addition, a Declaration of Covenants and Restrictions was recorded against the former landfill property that requires written authorization be obtained from NYSDEC for a change of use other than for the project described in the Part 360 Permit.

The proposed development includes demolition of existing structures and construction of an approximately 3,093,880 -gross-square-foot (gsf) gaming facility that would include a casino, a 500-key hotel, approximately 6,100 gsf of retail space, a 2000-seat multi-purpose event and entertainment venue, an approximately 2,000-square-foot police substation, and parking for 4,660 vehicles. A replacement stand-alone golf clubhouse would also be constructed within the Development Site, just north of the gaming facility. The majority of the 18 holes that comprise the Golf Course would remain as currently configured and would continue to be open to the public. Golf Course users traveling by car would park within the gaming facility parking areas. Improvements also will be made to the existing road located northwest of the Development Site, herein referred to as Ring Road.

1.1 Objective

Pursuant to the NYSDEC-issued Part 360 Permit related to construction of the Golf Course and parks, a PCCCP was established to set forth post-construction operation, maintenance and

monitoring requirements associated with operations of FPP on the former landfill. The Development Site is currently a part of the Golf Course and associated parking lot and clubhouse. This COUWP identifies and evaluates planned development activities and describes applicable federal, state, and local laws and regulations as well as best management practices that will be adhered to during redevelopment of the site, including those prescribed in the PCCCP. This COUWP includes, but is not limited to, provisions for the excavation, handling, management, reuse and transport of excavated materials, as well as a description of protective measures that will be implemented during redevelopment of the site and incorporated into the building design to be protective of human health and the environment.

This COUWP was prepared to support NYSDEC's authorization of a change of use of the Development Site to a gaming and recreation facility. The COUWP is designed to manage potential exposure to residual contamination related to former landfill operations during construction and to regulate site activities and prevent exposure to site-related contamination. This plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with Title 6 of the New York Codes, Rules and Regulations (6 NYCRR) Part 360. The COUWP shall remain in full force and effect, and be complied with, during demolition of the existing structures and redevelopment of the Development Site.

1.2 Site Location and Description

The Development Site is an approximately 18.38-acre parcel located entirely within FPP in the Throggs Neck neighborhood in the Bronx, New York and is identified on the Bronx County Tax Map as part of Block 5622, Lot 1. The site is bound by Hutchinson River Expressway to the west and is otherwise bound by the Golf Course and FPP. A figure showing the location of the Development Site is included as Figure 1. Figure 2 shows the existing site plan.

Because of its historical use as a landfill, FPP operates under a PCCCP, the establishment of which was a stipulation of the NYSDEC Part 360 Solid Waste Permit granted for Golf Course and parks construction. Operation of FPP is required to comply with the PCCCP and other applicable NYSDEC regulations. The PCCCP defines the post-construction criteria applicable to the operation, monitoring, and maintenance of the environmental-protection systems installed as part of Golf Course and parks construction, which include:

- Final Cover and Drainage System
- Landfill-Gas-Control System
- Long-Term-Settlement Monitoring System
- Groundwater-Characterization System

- Sub-membrane Depressurization (SMD) System (clubhouse)

The portion of FPP that operated as a landfill, including the Development Site, is subject to a Declaration of Covenants and Restrictions recorded on December 11, 2015, that, among other things, requires written authorization from the NYSDEC for any change of use other than for the project described in the Part 360 Permit.

1.3 Site and Environmental History

1.3.1 Historical Site Use and Permitting History

FPP was created through a combination of land purchase and reclamation. The park's original 171 acres were purchased by the City in proceedings to acquire land for the Whitestone Bridge in 1937, and plans were made for a beach, bathhouse, and cafeteria complex with a bus terminal and parking field. When the portion of the park that is west of the Whitestone Bridge opened in 1941, the design had been scaled back and included a comfort station, baseball diamonds, an overlook, and picnic areas. In 1948, two park additions totaling 243 acres were acquired by condemnation.

Historically, the land comprising FPP to the east of the Whitestone Bridge operated as a municipal solid waste landfill from 1951 to the 1960s. The landfill was operated by the New York City Department of Sanitation (NYCDOS), with operations ceasing in the 1960s. The former landfill area was capped thereafter with a soil cover of varying thickness. In the late 1990s, the NYCDPR entered into a license agreement with Ferry Point Partners, LLC to develop, construct, and operate a new public golf course, community park, waterfront park, and related facilities. In 1999, an Environmental Assessment Statement (EAS) was prepared by Allee King Rosen & Fleming, Inc. to evaluate the former landfill for development as a public recreational facility. The EAS was completed pursuant to City Environmental Quality Review (CEQR) (CEQR No. 99DPR006X), and in conformance with the State Environmental Quality Review Act (SEQRA) in support of an application by NYCDPR for major concession and to demap two unbuilt and undeveloped streets– Emerson Avenue between Miles and Schley Avenues, and Schley Avenue between Buttrick and Emerson Avenues. The major concession was also subject to the City's Uniform Land Use Review Procedure (ULURP).

On July 17, 2000, NYSDEC issued the Part 360 Permit jointly to Ferry Point Partners, LLC and NYCDPR to allow the import and placement of a total of 1,000,000 cubic yards (CY) of nonhazardous regulated fill necessary to construct the Golf Course and parks. Several modifications to the Part 360 Permit were made to allow additional nonhazardous regulated fill to be imported and allow changes in design features. In total, approximately 2,120,000 CY of nonhazardous regulated fill (shaping material) and 394,000 CY of barrier protection material (BPM) was approved for import to cap the former landfill area with a cover of varying thickness.

During construction of the Golf Course and clubhouse, municipal solid waste was generated including but not limited to historic fill, metal, glass, tires, plastics, rubber, paper, fabrics, and miscellaneous debris. Solid waste material was not reused on-site after it was encountered, except for nonhazardous regulated fill that was reused on-site in accordance with an Order on Consent issued by NYSDEC as of January 4, 2004 (Order on Consent No. R2-20030724-187).

As required by the NYSDEC Part 360 Permit, a NYSDEC-approved PCCCP was established to set forth post-construction and monitoring requirements associated with the former landfill use and construction allowed by the permit. Monitoring as required by the PCCCP is currently conducted by NYCDPR. The public 18-hole Golf Course was completed over the former landfill in 2015.

FPP is subject to a Declaration of Covenants and Restrictions recorded on December 11, 2015, that, among other things, requires written authorization from the NYSDEC for any change of use other than for the project described in the Part 360 Permit. The Development Site, as shown in Figure 2, comprises about 18.38 acres and includes the Golf Course's clubhouse, parking lot, and portion of the practice area.

1.3.2 The Part 360 Permit, as subsequently modified during construction activities, expired in May 2024.Previous Reports

Extensive previous environmental reports and investigation information are available for the site. The following reports are referenced in this COUWP and are provided in Appendix A.

- Ferry Point Park East Landfill Gas Management Plan, prepared by Ecology and Environment Engineering, P.C., dated October 2011 (revised May 2012, August 31, 2012, and October 15, 2013)
- Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East Bronx, New York, prepared by Ecology and Environment Engineering, P.C., dated May 31, 2012 (revised August 31, 2012 and October 15, 2013)
- Ferry Point Park East Post Construction Custodial Care Plan, prepared by NYCDPR, dated October 2013
- Final Construction Certification Report for Ferry Point Park Golf Course & Community Park Bronx, New York, prepared by NYCDPR, dated October 19, 2015
- Contract Drawings for Construction of a Tournament Quality Golf Course Bounded by the East River, Balcom Avenue, Miles Avenue and the Whitestone Bridge Approach, in Ferry Point Park, Borough of the Bronx; Drawings H2.1 to H2.14, dated March 6, 2009

- Final Construction Certification Report, prepared by Maser Consulting P.A., dated November 26, 2019

- 2023 Semi-Annual Post-Closure Certification Report, prepared by GEI Consultants, Inc., P.C., dated October 2023 (semi-annual reports are required to be submitted by NYCDPR to NYSDEC under the PCCCP; this is the most recent semi-annual report)

Previous reports present the findings of investigations, monitoring, and measures to address on-site contamination related to former landfill operations. According to the reports, the primary contaminants of concern include municipal solid waste and landfill gas generated from the decomposition of residual landfill contents. Landfill gas is comprised of methane, carbon dioxide, and lesser amounts of nitrogen, oxygen, water vapor, sulfur, hydrogen, and other non-methane organic compounds. Soil beneath the site cap contains semivolatile organic compounds (SVOC), polychlorinated biphenyls (PCB), arsenic, and lead above risk-based criteria. Relevant information from previous reports is discussed in applicable sections of this COUWP.

1.4 Surrounding Area

The land within a quarter-mile radius of the Development Site is predominantly parkland associated with FPP, which spans across the east and west sides of the Hutchinson River Expressway. The Golf Course is a 222-acre regional public recreation facility located on the eastern portion of FPP, bounded by the Whitestone Bridge to the west, Balcom Avenue and Emerson Avenue to the east, Schley Avenue and St. Raymond's New Cemetery to the north, and the East River to the south. Beyond the Golf Course, the western portion of the park offers barbecuing areas, basketball courts, cricket fields, football fields, dog-friendly areas, handball courts, playgrounds, public restrooms, soccer fields, and Wi-Fi Hot Spots.

The area south of the Cross Bronx Expressway and west of Hutchinson River Expressway is predominately industrial, although residential uses are present on the blocks bounded by Wenner Place, Hutchinson River Expressway, Jay Place, and Brush Avenue. North of FPP is the 180-acre St. Raymond's New Cemetery. The area east of the park is the predominately residential Throggs Neck neighborhood. Figure 3 shows the land uses within a quarter mile of the site.

2. CURRENT SITE USE AND EXISTING CONDITIONS

2.1 Current Site Use

Ferry Point Park is currently operated as a part of the NYCDPR system. The community park and waterfront park are operated and maintained by the NYCDPR Borough of the Bronx Operations and Maintenance division, and the Golf Course was formerly operated and maintained by a concessionaire identified as Trump Ferry Point, LLC. The concession to operate the Golf Course was transferred to Bally's as of September 12, 2023. NYCDPR currently remains responsible for all inspection monitoring, reporting, and oversight of operations and maintenance of the FPP site, including implementation of the PCCCP.

2.2 Existing Infrastructure and Cover Systems

In accordance with the 2013 NYSDEC-issued Part 360 Permit, several systems were installed during construction to serve operational and environmental functions. These systems include a final cover and drainage system, landfill gas control system (including SMD systems), groundwater characterization system, and a long-term settlement monitoring system.

A final cover system was installed throughout the former landfill area of FPP to provide a barrier of uncontaminated soil and prevent exposure to underlying landfill material. According to the PCCCP, the final cover is composed of a topmost layer (a matrix of vegetation, asphalt, gravel, concrete, or paver systems) followed by barrier protection material (BPM), consisting of clean soil meeting permit requirements ranging from one to two feet deep. The BPM contains surface drainage system elements and, in select areas, overlays a demarcation layer, which separates the BPM from the nonhazardous regulated fill material (shaping material) and existing landfill material. Existing soil quality within the site boundary is further discussed in Section 2.4.

A landfill gas control system is installed within the waste layer of the former landfill to monitor the generation of landfill gas including, but not limited to, methane and carbon dioxide. Landfill gas controls include passive venting systems, landfill gas migration systems, and interior active collection systems (SMD systems). Details related to landfill gas control systems within the site boundary are discussed in Section 2.5.

Groundwater monitoring wells were installed throughout the former landfill area in 2012 to obtain baseline chemical data. Hydrogeological information including flow direction, groundwater elevations, and flow velocity, was also collected from the on-site wells. NYCDPR has continued groundwater monitoring during Golf Course operation. There is currently one well installed within the boundary of the Development Site. Additional information regarding groundwater conditions and monitoring are discussed in Section 2.6.

In accordance with the Part 360 permit, a settlement monitoring program was developed for FPP. Settlement monitoring consisted of settlement plate installation throughout FPP to evaluate

settlement and compaction of fill imported during construction. Section 2.7 describes settlement plate installation and monitoring.

The cover system and infrastructure are inspected in accordance with the PCCCP (and subsequent updates). Within the bounds of the Development Site, this includes:

- Monthly monitoring of piezometers
- Quarterly inspection of the final cover system
- Quarterly monitoring of the active landfill gas mitigation system beneath the current Golf Course clubhouse
- Quarterly monitoring of four landfill gas passive vent wells
- Monitoring of the asphalt cover every six months
- Biennial sampling of one groundwater monitoring well

One settlement plate is present within the Development Site; however, as of June 15, 2023, NYSDEC approved the termination of all future settlement plate monitoring, if the former landfill continues to be utilized and maintained in its current condition as a golf course.

Four unconfirmed landfill gas passive vent wells and two unconfirmed landfill gas collection pipes were identified within the bounds of the Development Site; however, these do not appear to be part of the ongoing monitoring program and it is unknown if these have been closed in place.

A map of the existing infrastructure within the site is included as Figure 4.

2.3 Existing Geological Conditions

Langan's understanding of the existing subsurface soil conditions is based on a review of previous reports, historical geologic maps and historical borings Langan performed in and around the site.

A review of the historical United States Geological Survey (USGS) Harlem Quadrangle Map (1897) shows that the Development Site was once part of the East River; specifically, part of the water body known as Baxter Creek Inlet. Based on historical aerial photographs, landfilling appears to have followed a planned sequence using internal separations of landfills, including the municipal solid waste zones, as filling progressed.

Below the BPM and shaping material discussed in the previous section, the subsurface conditions generally consist of a layer of miscellaneous fill, including construction and demolition

debris and other municipal solid-waste materials overlying natural, soft, silty, clayey, peat and sands, which overly glacial till. Bedrock is expected to be 80 to 120 feet below current grade.

Based on historical boring information collected before placement of the BPM and shaping material, a layer of fill, which was noted to be about 2 to 13 feet thick, overlays the landfill material. This landfill material, which is as thin as 2 feet to as thick as 34 feet, includes cinders, wood, glass, metal, and plastic, with varying amounts of intermixed soil. A very small percentage of the material consisted of paper, cloth, and organic waste. The overall thickness of fill above the landfill material was increased in certain areas when the Golf Course was constructed by placement of the shaping material and BPM.

2.4 Existing Soil Quality

The cover system in the Development Site consists of a topmost layer (including vegetation, asphalt, and other ground cover), followed by 12 to 24 inches of BPM, a demarcation barrier in select areas, and shaping material above the landfill material. Provided below is a description of the layers comprising the cover system.

2.4.1 Top Cover and BPM

The topmost layer of the Development Site consists primarily of vegetated cover material as well as impermeable asphalt, gravel materials, concrete, or paver systems. The topmost cover stabilizes the underlying BPM, which consists of clean soil meeting permit requirements. BPM ranges in thickness from one foot deep in passive recreational areas (i.e., Golf Course greens) and two feet deep in active recreation areas (i.e., all other areas not covered with a building or other impermeable cover system). According to the 2015 NYCDPR Final Construction Certification Report, about 394,000 CY of BPM (referred to as cover material in the report) was imported for Golf Course construction.

Soil accepted for use within the BPM layer was sampled prior to acceptance and after each additional 2,000 CY proposed for import. Parameters for BPM included the complete analyte list of Technical Administrative Guidance Memorandum (TAGM) 4046 for total volatile organic compounds (VOC), total SVOCs, total pesticides and herbicides, total PCBs, and total metals, as well as sulfur and asbestos. Analytical results were below chemical limits set forth in TAGM 4046 for VOCs, SVOCs, PCBs, and metals, as well as 0.5% for total asbestos and sulfur, 16 parts per million (ppm) for arsenic, and 400 ppm for lead.

2.4.2 Demarcation Layer

In areas where the combined thickness of BPM and shaping material is less than 5 feet thick, a demarcation layer consisting of orange construction fencing was installed to provide a physical, visible separation between the BPM and shaping material.

2.4.3 Shaping Material

According to the 2015 Final Construction Certification Report, about 2,120,000 CY of nonhazardous regulated fill material was imported as shaping material for Golf Course construction (referred to as select exempt construction and demolition debris in the report). Shaping material was sampled prior to acceptance and after the import of each additional 10,000 CY, as required by the Part 360 Permit. For material imported from recycling facilities, additional sampling was conducted after each additional 5,000 CY.

Shaping material imported to the site was sampled for Toxic Characteristic Leaching Procedure (TCLP) VOCs and metals, and total VOCs, SVOCs, priority pollutant metals, pesticides, PCBs, sulfur, and asbestos. Analytical results were compared to site specific chemical limits, as detailed in the table below:

Analyte	Site-Specific Chemical Limit
Benzo(a)pyrene	10 ppm
Dibenzo(a,h)anthracene	10 ppm
Benzo(a)anthracene	10 ppm
Benzo(b)fluoranthene	10 ppm
Indeno(1,2,3-cd)pyrene	10 ppm
Benzo(k)fluoranthene	10 ppm
Chrysene	10 ppm
Total SVOCs	500 ppm
Arsenic	28 ppm
Barium	2,000 ppm
Cadmium	20 ppm
Chromium	1,000 ppm
Copper	1,000 ppm
Lead	400 ppm
Mercury	0.57 ppm
Selenium	11 ppm
Silver	100 ppm
Asbestos	0.5%
Total Sulfur	0.5%
Total PCBs	10 ppm
Total Pesticides	10 ppm

Analyte	Site-Specific Chemical Limit
VOCs	All individual analytes less than TAGM 4046

2.5 Landfill Gas (LFG) Management

During development of the Golf Course, a landfill-gas ventilation system was installed to prevent accumulation of landfill gas. The landfill-gas ventilation system is primarily a passive system located throughout FPP, including the site; however, active vapor-removal-infrastructure exists in the Golf Course clubhouse. The passive system includes vent wells installed throughout the former landfill as well as venting trenches along the perimeter of the Golf Course to prevent off-site migration. The active landfill gas system within the clubhouse building includes a SMD system with blowers to extract gas through vents from the landfill's subsurface (below the building slab), and continuous explosive gas monitoring components. Details related to the construction of the LFG systems are provided within Appendix A.

Maintenance and monitoring of the landfill-gas system is performed in accordance with the operations, monitoring and maintenance (OM&M) program detailed in the 2013 Landfill Gas Management Plan (LFGMP). In accordance with the PCCCP, any new buildings require installation of active vapor mitigation systems.

The landfill gas monitoring program supports compliance with the following requirements: (1) the concentration of explosive gases will not exceed 25% of the lower explosive limit (LEL) in on-site structures and (2) the concentration of explosive gases must not exceed the LEL at the property boundary as defined by the LFGMP.

2.6 Existing Groundwater Conditions and Monitoring

Groundwater flow is typically topographically influenced, as shallow groundwater tends to originate in areas of topographic highs and flows toward areas of topographic lows, such as rivers, stream valleys, ponds, and wetlands. A broader, interconnected hydrogeologic network often governs groundwater flow at depth or in the bedrock aquifer. Groundwater depth and flow direction are also subject to hydrogeologic and anthropogenic variables such as precipitation, evaporation, extent of vegetation cover, coverage by impervious surfaces, and subsurface structures. Other factors influencing groundwater include depth to bedrock, the presence of anthropogenic fill, and variability in local geology and groundwater sources or sinks. During previous groundwater investigations, groundwater flow throughout FPP was generally observed to flow to the south-southeast, towards the East River. According to synoptic groundwater level measurements obtained during these investigations, groundwater was tidally influenced and varied from 2.5 to 20.9 feet below grade surface.

As per a 2011 NYSDEC directive, NYCDPR initially installed 11 groundwater monitoring wells in February of 2012 to obtain baseline chemical data on groundwater conditions across the former landfill. Additional wells and piezometers were installed during development of FPP, and one groundwater monitoring well (GMW-10) exists within the bounds of the Development Site. Monthly monitoring and biennial sampling have been conducted in accordance with the PCCCP, as updated, since completion of the Golf Course.

According to the latest Semi-Annual Post-Closure Certification Report prepared by GEI Consultants (2023), three piezometers and five monitoring wells across FPP were sampled and analyzed in accordance with the PCCCP, including GMW-10. During the 2023 investigation, groundwater in GMW-10 was observed at a depth of about 10 feet below top of well casing, and groundwater flow was generally to the south-southeast.

Groundwater analytical results for the on-site well indicated three metals (iron, lead, and manganese) and cyanide above NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water (SGVs). The metals detected in groundwater above the SGVs (iron and manganese) are attributed to regional groundwater conditions, except for lead. Lead was detected in the total (unfiltered) sample above the SGV but was below the SGV in the filtered sample. Because lead was not detected in dissolved groundwater at a concentration greater than the SGV, the total concentration can be attributed to turbidity in the groundwater sample. Cyanide was detected at a concentration marginally above the SGV (220 micrograms per liter [µg/l] compared to an SGV of 200 µg/l); however, GEI concluded that the presence of cyanide is generally consistent with other previous post-closure monitoring events.

Based on the findings of the most recent groundwater sampling event for the former landfill area, NYCDPR's consultant, GEI Consultants recommended a reduced groundwater monitoring program including:

- Discontinuation of VOC monitoring for all wells except PZ-15 in the eastern part of the investigation area
- Discontinuation of SVOC monitoring from all locations except GMW-11 in the western part of the investigation area
- Discontinuation of sampling for unfiltered metals
- Continued monitoring of dissolved metals, general chemistry, phenolics, anions, and cyanide at all locations.

To date, the requested reduced sampling frequency has not been approved by the NYSDEC and biennial groundwater sampling is still required.

2.7 Settlement Plate Monitoring

To evaluate settlement and compaction during the fill placement and grading during Golf Course construction, settlement plates were installed throughout the landfill. Settlement monitoring began on-site in December 2002 and consisted of the construction of seven instrumented test fills and installation of six settlement plates throughout the former landfill. The test fills ranged in height between 10 and 18 feet and were in areas where significant thicknesses of fill were required, in areas where thick compressible layers existed, and in future golf green areas. Additional settlement plates were installed during development of FPP.

Long-term settlement plate monitoring began after completion of Golf Course construction on an annual basis. According to the 2023 Semi-Annual Post-Closure Certification Report, nine plate locations, including one plate within the bounds of the site, were evaluated to determine if significant changes in park elevation had occurred. During the 2023 assessment, GEI Consultants determined that no significant changes in elevation had been observed since the last reporting period. Based on the results of the assessment and historic settlement data, NYSDEC approved discontinuation of settlement plate monitoring on June 15, 2023 under the condition that the former landfill continue to be utilized and maintained as a golf course and park.

3. PROPOSED DEVELOPMENT PLAN

The proposed development at the Development Site includes demolition of the existing clubhouse and parking areas and construction of a casino resort building with parking, gaming facilities, food and beverage, hotel, retail, an event center, and a new golf clubhouse. Various roadways and driveways will be provided for access and circulation. Parking for all uses on the Development Site will be provided within the casino resort building.

The Development Site will be subject to alienation by New York State Legislature to permit development of the casino-resort and will be acquired by Bally's. The Golf Course will continue to be operated pursuant to a concession with NYCDPR. A site plan and elevations are included in Figures 5A and 5B, respectively.

In addition to alienation legislation, the proposed development requires various city and state discretionary approvals, including land use actions subject to ULURP and a New York State gaming license. The Mayor's Office of Environmental Coordination is acting as lead agency for the CEQR and SEQRA review of the proposed project.

3.1 Proposed Construction

As stated above, a casino resort with gaming space, food and beverage services, a hotel, an event center, retail, and a 4,660-space parking area will be constructed on the Development Site. Outside the Development Site, the uninterrupted circular roadway within FPP that connects the southbound and northbound Hutchinson River Expressway service roads (Ring Road) will be widened and improved in coordination with the New York City Department of Transportation (NYCDOT). Supplemental roadway improvements will be undertaken to improve circulation near the development area.

To enable the proposed development, the site will be the subject of State legislation authorizing its alienation so that it can be transferred to Bally's and used for non-park use. In connection with the alienation, Bally's intends to transfer to-be-identified properties to New York City for use as new parkland and provide upgrades to existing parkland. Ring Road is currently parkland; therefore, it will also be the subject of State alienation legislation to allow it to be transferred to the NYCDOT for use as a public roadway.

Based on the proposed column loading for the casino/hotel building, the structure will be supported on drilled piles (i.e., drilled caissons)[1] which will extend down and be supported in bedrock. Refer to Figure 6 for a caisson reference section-detail. Capacities for drilled elements range from about 300 to 1,750 tons and largely depend on the rock socket (i.e., the cored hole that the caisson is placed in) length and element diameter – refer to the table below. Bedrock is on the order of 65 to 85 feet below the existing site grade. Typical caisson details and associated loading are provided in the table below. Final selection will be confirmed prior to construction.

Drilled Pile Capacities

Caisson Diameter (inches)	Capacities (tons)- based on rock socket lengths of 10 to 20 feet
14	300 to 450
24	700 to 1,100
30	1,100 to 1,400
36	1,400 to 1,750

Installation of these piles will require a breach of the landfill cover system and excavation of material underlying the BPM. Based on current design plans, it is assumed that an area of about 300,000 square feet will be disturbed during construction. An estimated total of ±165,000 cubic yards (CY) of material will be generated: about ±140,000 CY to be excavated for building construction; and ±25,000 CY to be generated by site grading and construction of access roads, walkways, and landscaped areas. Of the ±165,000 cubic yards to be excavated for building construction, an estimated ±16,000 CY will consist of landfill material.

All excavated material will be properly characterized prior to excavation and any material unsuitable for reuse will be disposed of in accordance with applicable local, state, and federal regulations at an approved permitted disposal facility. Top cover, BPM, and shaping material excavated during construction are proposed for reuse; however, waste characterization data to-be-collected, and observation of field conditions, will inform the ability to reuse soil at the site.

The proposed building's B2 level (el. 15) slab will serve as a new component of the site cover across the building footprint, and breaches in the site cover outside of the building will be restored following construction. A vapor barrier and active vapor mitigation system will be incorporated

[1] A drilled caisson element consists of open-ended steel casing sections (unbonded zone) drilled into place down through the overburden soils and extending to the required bearing stratum. An uncased hole is drilled into the rock, down from the unbonded zone, to create the bond zone. After drilling, the entire shaft is filled with cement-grout and steel reinforcement. The structural load is transferred from the drilled element to the rock through the bond zone.

into the casino resort building and clubhouse design. The existing landfill infrastructure within the bounds of the site will be maintained to the extent feasible, decommissioned, replaced in kind, or relocated to a suitable alternate location.

After construction has been completed, a new PCCCP will be generated to define the post-construction criteria applicable to the operation, monitoring and maintenance of the environmental protection systems installed on the Development Site. Future monitoring within the Development Site will be the responsibility of Bally's rather than NYCDPR. In addition, the existing PCCCP will be amended to exclude the Development Site, but continue the long-term management of ECs and ICs within the remainder of the former landfill area by NYCDPR. Finally, the Declaration of Covenants and Restrictions will be amended to reference the new use.

3.2 Community Impacts

The land within a quarter-mile radius of the site is predominantly parkland associated with FPP, which spans across the east and west sides of the Hutchinson River Expressway. The Golf Course is a 222-acre regional public recreation facility located on the eastern portion of the park. Beyond the Golf Course, in the western portion, the park offers barbecuing areas, basketball courts, cricket fields, football fields, dog-friendly areas, handball courts, playgrounds, public restrooms, soccer fields, and Wi-Fi Hot Spots.

The area south of the Cross Bronx Expressway and west of Hutchinson River Expressway is predominately industrial, although residential uses are present on the blocks bounded by Wenner Place, Hutchinson River Expressway, Jay Place, and Brush Avenue. The non-residential uses in this area include the Throggs Neck Shopping Center, Monsignor Scanlan High School, construction contractor yards, and a homeless shelter. North of the Park is the 180-acre St. Raymond's New Cemetery. The area east of the park is the predominately residential Throggs Neck neighborhood. Figure 3 shows the land uses within a quarter mile of the site.

During construction, the most significant adverse impacts and risks to the community will be exposure to dust from exposed soil during excavation, increased truck traffic, and construction-related noise for the duration of site redevelopment. Public health will be protected by implementing and enforcing dust, odor, and organic vapor control and monitoring procedures, as well as routing truck traffic on the most direct course using major thoroughfares where possible. Flaggers will be used to protect pedestrians at site entrances and exits. The effects of these potential adverse impacts to the community, workers, and the environment will be minimized by implementing the respective control plans. A detailed environmental and public health assessment is included in Section 6 of this report.

The proposed redevelopment will enable a destination gaming facility in a well-suited area of the Bronx. The site is strategically located in proximity to interstate highways and regional airports, but its location within a park offers a degree of separation from the adjacent community for

minimal neighborhood affect. The Development Site is located on the existing golf course parking lot and clubhouse, allowing the majority of the public Golf Course (over 200 acres) to remain intact.

Bally's will generate meaningful economic activity for the Borough, City and State, including significant new tax revenue. The project is expected to create thousands of construction jobs and 3,500 permanent jobs. When complete, the project will be one the largest Bronx employers and one of the largest privately funded projects in Bronx's history.

The project will further goals in the 2015 Hutchinson River Transportation Corridor Parkway Study by making privately-funded infrastructure and safety improvements to the Ring Road and surrounding roadways. In partnership with New York City, Bally's will implement these important transportation objectives. Additionally, Bally's will improve park facilities to complement the City's recent park upgrades including the newly created waterfront access and ferry terminal.

The proposed facility will be an economic boon to the City of New York, significantly increase employment in the area both directly and indirectly, and create a vibrant destination in a largely underutilized area of the Bronx.

3.3 Development Timeline

Upon obtaining a gaming license, Bally's will proceed with finalizing designs for the proposed facility, which will include preparation of final architectural and engineering design and construction documents. Pre-construction also includes preparation of an Environmental Impact Statement, which is currently underway, obtaining permits, and selecting contractors to implement construction. Pre-construction activities began in 2024 and are anticipated to continue through 2026.

After all required approvals have been secured, site preparation will commence, including demolishing existing structures and decommissioning existing environmental infrastructure. Site preparation will include a waste characterization study to characterize on-site soil and fill to be reused or removed as part of development. Preparatory activities are anticipated to begin in2027.

The construction phase will include excavation, stockpiling, off-site transport, and appropriate disposal of soil/fill and importation of clean fill, as necessary, in support of site redevelopment. Construction is expected to commence in 2027, and the development is anticipated to be complete by 2030. A proposed construction schedule is included as Appendix B.

4. PROJECT PERSONNEL AND CONTACT INFORMATION

This section presents the anticipated project organization and associated roles, including key personnel, descriptions of duties, and lines of authority in the management of this COUWP. The following project personnel are anticipated for oversight of the COUWP implementation. Project personnel resumes are provided in Appendix C.

Environmental Engineer:	Jason Hayes, P.E. jahayes@Langan.com 212.479.5400
Program Manager:	Brian Gochenaur, QEP bgochenaur@Langan.com 212.479.5479
Project Manager:	Lamees Esmail, P.E. lesmail@Langan.com 212.479.5499
Langan Health & Safety Officer:	Tony Moffa, ASP, CHMM, CSP, COSS tmoffa@Langan.com 215.491.6545
Langan Site Safety Coordinator:	William Bohrer, P.G. wbohrer@Langan.com 212.479.5533
Qualified Environmental Professional (QEP):	Michael Burke, P.G., CHMM mburke@Langan.com 212.479.5413
Field Team Leader:	Kaitlyn Gioia kgioia@Langan.com 212.479.5531
Quality Assurance Officer:	Joseph Conboy jconboy@Langan.com 856.332.0045

Langan personnel under the direct supervision of the QEP and the Environmental Engineer will be on-site during implementation of the COUWP to document soil excavation and disposal and to monitor particulates and organic vapor in accordance with the Community Air Monitoring Program (CAMP). CAMP results that exceed specified action levels will be reported to the NYSDEC and the New York State Department of Health (NYSDOH) in daily reports.

Langan personnel will meet with the selected contractor and their appointed construction supervisor (the "Contractor") on a daily basis to discuss plans for that day and schedule upcoming

activities. Langan personnel will document construction activities in daily reports. This document will be forwarded to the Field Team Leader on a daily basis and to the PE, Project Manager, and the Environmental Engineer on a weekly basis.

Langan personnel will screen excavations with a photoionization detector (PID) during ground-intrusive work. PID readings, including specifically elevated readings above the CAMP action levels, will be recorded in the project field book (or on separate logs) and reported to the NYSDEC and NYSDOH in daily reports.

The project field log will be used to document sampling activities and how they correspond to this COUWP. Field observations and laboratory tests will be recorded in the project field book or on separate logs. Recorded field observations may take the form of notes, charts, sketches, and/or photographs. A photo log will be kept to document construction activities. The photo log may also be used to document those activities recorded in the daily reports.

The Field Team Leader will maintain the current field log and original field documentation during the development project. Construction activities will be documented in monthly progress reports. The Project Manager will maintain the field paperwork after completion and will maintain submittal document files.

5. CONSTRUCTION IMPLEMENTATION

5.1 Site Preparation and Ground Intrusive Construction Summary

Construction will include the following elements:

- Development and implementation of a Health and Safety Plan (HASP) for protection of on-site workers, and a CAMP for protection of community/residents and the environment during construction activities
- Implementation of preliminary waste characterization, as required, including lateral delineation sampling of the former landfill area to facilitate off-site disposal or reuse of excavated material
- Implementation of soil erosion, pollution, and sediment control measures in compliance with applicable laws and regulations
- Maintaining to the extent feasible, decommissioning, replacing in kind, or relocating the existing landfill infrastructure within the bounds of the site
- Demolition of the existing structures to facilitate excavation
- Construction of a support of excavation (SOE) system to facilitate development
- Excavation, stockpiling, re-use, off-site transport, and appropriate disposal of site soil and historic fill
- Screening for indications of contamination (by visual means, odor, and monitoring with a PID) of excavated material during intrusive site work
- Importation of clean fill meeting NYSDEC Part 375 Restricted-Residential Use (RRU) Soil Cleanup Objectives (SCOs), virgin stone, or recycled concrete aggregate (RCA), or virgin, native crushed stone to backfill excavated areas to development depth (if necessary) or for use in ramps or sub-base
- Establishment of use restrictions (i.e., institutional controls [ICs]) including prohibition on site groundwater use and prohibitions on sensitive site uses, such as farming or vegetable gardening
- Construction of engineering controls (ECs), including installation of a composite cover system and sub-membrane depressurization (SMD) system to mitigate potential soil vapor intrusion
- Post construction, establishment of a new PCCCP for the long-term management of ECs and ICs for the Development Site by Bally's, including the performance of periodic inspections and certification that the controls are performing as intended

- Amendment of the existing PCCCP to exclude the Development Site, but continue the long-term management of ECs and ICs by within the remainder of the former landfill area by NYCDPR

Construction of the proposed facility will begin after all required approvals have been approved and Bally's has obtained a gaming license. Mobilization to the site to implement this COUWP is expected to take about two to three weeks. Once mobilization is complete, development of the site will commence. The development, which will be constructed in accordance with the COUWP, is anticipated to take about 30 months to complete. Construction is expected to commence in 2027, and the development is anticipated to be complete by 2030. Following implementation of construction, a Construction Completion Report (CCR) documenting development activity will be submitted to the NYSDEC.

5.2 On-Site Worker, Public Health, Environmental Protection

A site-specific Health and Safety Plan (HASP) is appended to this COUWP (Appendix D) and will be enforced during excavation and foundation construction to protect site workers from accidents and acute and chronic exposures to potentially contaminated media. Contractors are required to develop and implement their own health and safety plans that, at a minimum, include the requirements outlined in the HASP. Public health will be protected by implementing and enforcing dust, odor, and organic vapor control and monitoring procedures included in the CAMP. The CAMP will include continuous perimeter monitoring of dust and organic vapor using DustTrak aerosol monitors and PIDs capable of recording data and calculating 15-minute averages. Field personnel will monitor site perimeters for visible dust and odors. The environment will be protected by implementing and enforcing the appropriate soil erosion prevention measures.

5.2.1 Community Air Monitoring Plan (CAMP)

Community air monitoring will be conducted in compliance with the NYSDOH Generic CAMP outlined below. Exceedances observed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers and included in the daily report.

The CAMP will include real-time monitoring for VOCs and particulates at the downwind perimeter of each designated work area when ground-intrusive work is in progress. Continuous monitoring will be required for all ground-intrusive work. Ground-intrusive work includes, but is not limited to, soil/fill excavation and handling and utility trenching. Periodic monitoring for VOCs may be required during non-intrusive work such as the collection of soil samples. "Periodic" monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location and taking a reading prior to leaving a sample location.

CAMP monitoring of total VOC levels will be conducted using PIDs, and monitoring for particulates will be conducted using particulate sensors equipped with filters that can detect airborne particulates less than 10 microns in diameter (PM10). Monitoring for particulates and

odors will be conducted during ground-intrusive work by a Langan field representative under the supervision of the Environmental Engineer. The work zone is defined as the general area in which machinery is operating in support of construction. A portable PID will be used to monitor the work zone and for periodic monitoring of total VOC levels during work such as soil sampling. The site perimeter will be visually monitored for fugitive dust emissions.

The following actions will be taken based on total VOC measurements:

- If total VOC levels exceed 5 parts per million ppm above background for the 15-minute average at the perimeter, work will be temporarily halted and monitoring continued. If levels readily decrease (per instantaneous readings) below 5 ppm above background, work will resume with continued monitoring.

- If total VOC levels at the downwind perimeter of the work zone persist at levels in excess of 5 ppm above background but less than 25 ppm, work will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work will resume provided that the total VOC level 200 feet downwind of the hot zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less – but in no case less than 20 feet, is below 5 ppm above background for the 15-minute average.

- If the total VOC level is above 25 ppm at the perimeter of the hot zone, work will be shut down.

The following actions will be taken based on PM10 measurements and visual dust observations:

- If the downwind PM10 level is 100 micrograms per cubic meter (μg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression must be employed. Work may continue with dust suppression techniques provided that downwind PM10 levels do not exceed 150 μg/m^3 above the background level and provided that no visible dust is migrating from the work area.

- If, after implementation of dust suppression techniques, downwind PM10 levels are greater than 150 μg/m^3 above the background level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM10 concentration to within 150 μg/m^3 of the upwind level and in preventing visible dust migration.

Sustained concentrations of VOCs or PM10 will be reported to the NYSDEC and NYSDOH Project Managers and included in the daily report. In addition, a map showing the location of the downwind and upwind CAMP stations will be included in the daily report.

5.2.2 Odor, Dust and Nuisance Control Plan

Dust, odor, and nuisance control will be accomplished by the Contractor as described in this section. The CCR will include the following certification by the Environmental Engineer: "I certify that ground-intrusive work during development-related construction was conducted in accordance with dust and odor suppression methodology defined in the COUWP."

5.2.2.1 Odor Control Plan

This odor control plan is capable of controlling emissions of nuisance odors off-site. Specific odor control methods to be used as needed will include application of foam suppressants or tarps over the odor or VOC source areas, if encountered. If nuisance odors are identified, work will be halted, and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of all other complaints about the project. Implementation of site perimeter odor monitoring, including notifying the Contractor and NYSDEC of exceedances, will be the responsibility of the Environmental Engineer, who is responsible for certifying the CCR. Application of odor controls is the responsibility of the Contractor.

All necessary means will be employed to prevent on- and off-site nuisances. At a minimum, procedures may include: (a) limiting the area of open excavations; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (a) direct load-out of soils to trucks for off-site disposal; (b) use of chemical odorants in spray or misting systems; and (b) use of staff to monitor odors in surrounding neighborhoods.

Where odor nuisances have developed during development work and cannot be corrected, or where the release of nuisance odors cannot otherwise be avoided due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering excavation and handling areas under tented containment structures equipped with appropriate air venting/filtering systems.

5.2.2.2 Dust Control Plan

A dust suppression plan that addresses dust management during ground-intrusive on-site work will include, at a minimum, the items listed below:

- Dust suppression will be achieved through the use of a dedicated water distribution system or on-site water truck for road wetting, or an alternate source with suitable

supply and pressure for use in dust control. Where required, the truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles;

- Gravel will be used on roadways to provide a clean and dust-free road surface; and
- On-site roads will be limited in total area to minimize the area required for water truck sprinkling.

5.2.2.3 Other Nuisances

A plan for rodent control will be developed and used by the Contractor during site preparation (including clearing and grubbing) and during development work.

A plan for noise control will be developed and used by the Contractor during site preparation and construction work and will conform, at a minimum, to the NYCDEP noise control standards.

5.3 Preliminary Waste Characterization

To guide proper handling and disposal of excavated soil and fill unsuitable for reuse, a waste characterization study will be completed for the proposed site. Waste characterization sampling will be performed in a manner suitable to receiving facilities and in conformance with applicable federal, state and local laws, rules, and regulations and facility-specific permits. Exposed landfill material, BPM, shaping material and native soil will be characterized as separate waste streams.

5.4 Soil Erosion and Stormwater Management

Erosion and sediment controls will be implemented as necessary in conformance with requirements presented in the New York State Guidelines for Urban Erosion and Sediment Control. Best management practices for soil erosion and sediment control will be selected to minimize erosion and sedimentation off-site from the onset of construction to the completion of development. Stormwater pollution prevention will be implemented as described below in Section 5.4.1. A Stormwater Pollution Prevention Plan (SWPPP) will be required because the project will disturb more than 20,000 square feet of land. During construction, the site must also operate in accordance with the New York City generic stormwater pollution discharge elimination system (SPDES) permit, as discussed in Section 5.4.2.

5.4.1 Stormwater Pollution Prevention Plan (SWPPP)

A SWPPP will be prepared and adhered to in accordance with NYSDEC and New York City Department of Environmental Protection (NYCDEP) policy. Silt fencing or hay bales will be installed around the perimeter of the construction area, as required. Barriers and hay bale checks will be installed and inspected at least once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection

by NYSDEC. All necessary repairs to silt fencing and/or hay bales shall be made immediately. Accumulated sediments will be removed as required to keep the barrier and hay bale check functional. All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials. Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering. Erosion and sediment control measures identified in the COUWP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts.

5.4.2 State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges

During construction, the site must operate in accordance with the New York State generic SPDES permit. If excavations require dewatering, dewatered fluids will not be recharged back to the land surface or subsurface. Dewatering fluids will be managed off-site. Discharge of water generated during construction to surface waters (i.e., a local pond, stream, and/or river) is prohibited without a SPDES permit.

Minimal dewatering is anticipated to be required during construction. If necessary, the Contractor's engineer will design the dewatering system to properly support excavation to the required development depths. Disposal of dewatering effluent will be performed in accordance with all applicable local and federal regulations. Prior to discharge to a New York City sewer, the contractor will obtain the appropriate permit (e.g., DEP Groundwater Discharge Permit). As an alternative to discharge to the sanitary sewer, the contractor may elect to collect the groundwater for characterization and off-site disposal.

5.5 Decommissioning of Existing Environmental Infrastructure

Existing environmental infrastructure at FPP includes groundwater monitoring wells, landfill gas passive vent wells and collection pipes, and settlement plates. Details about the construction of environmental infrastructure are provided within Appendix A. Within the bounds of the Development Site, the following infrastructure have been identified:

- One groundwater monitoring well (GMW-10)
- Four passive vent wells
- Two areas of collection piping, and
- One settlement plate

During construction, the existing landfill infrastructure will be maintained to the extent feasible. Any operational infrastructure that is unable to be maintained will be replaced in kind with

NYSDEC approval. The following sections detail procedures for managing existing infrastructure. Existing environmental infrastructure is depicted on Figure 4.

5.5.1 Monitoring Well Decommissioning

After Golf Course completion, groundwater monitoring wells were installed throughout FPP to monitor groundwater quality across the former landfill. In accordance with the PCCCP, the monitoring wells were sampled annually through 2020. Based on groundwater analytical trends, the NYSDEC approved a reduced, biennial sampling frequency in a correspondence dated January 7, 2020. Continued groundwater monitoring is required unless a request for cessation is accepted by the NYSDEC.

One groundwater monitoring well, GMW-10, was identified within the southern part of the Development Site. Prior to construction, a groundwater sample will be collected from GMW-10 to collect baseline groundwater quality data. If necessary, GMW-10 will be decommissioned in accordance with NYSDEC Commissioner's Policy (CP)-43 prior to excavation. The only exception to this is if the full length of the well is to be excavated during development. If required, well decommissioning will be performed by an experienced driller and logged by the driller and a Langan field engineer, scientist, or geologist. Decommissioning documentation will be provided in the CCR.

Should analytical results demonstrate favorable water quality conditions, a request for cessation of groundwater monitoring at GMW-10 will be made to the NYSDEC. If continued groundwater monitoring is required, GMW-10 will be maintained to the extent feasible or removed and replaced in kind post-construction. Based on preliminary design plans, it is not anticipated that GWM-10 will have to be relocated.

5.5.2 LFG Passive Vent Wells

There are currently four confirmed passive vent wells within the bounds of the site. Per the PCCCP and 2013 LFGMP, performance criteria thresholds for passive vent wells include: (1) the concentration of explosive gases will not exceed 25% of the LEL in on-site structures and (2) the concentration of explosive gases must not exceed the LEL at the property boundary. Prior to construction, data from the passive vent wells will be collected and compared to performance criteria thresholds. During construction, passive vent piping will be maintained to the extent feasible or removed and replaced in kind, as necessary, for continued landfill gas monitoring. Based on the current design, it is likely that the existing passive vent wells will have to be relocated/replaced post-construction. Two existing wells (V-22 and V-23) fall within the bounds of proposed construction and will be relocated, if necessary, outside of the building footprint. LFG Passive Vent Well construction details can be found in the as-built drawings within Appendix A.

5.5.3 LFG Collection Pipe

Two areas of assumed collection piping are located within the bounds of the Development Site, one in the western part of the site, and one in the southern part of the site. Adjustments to the monitoring system will be requested of the NYSDEC, as described above. During construction, passive collection piping will be maintained to the extent feasible or removed and replaced in kind, as necessary, for continued landfill gas monitoring.

5.5.4 Settlement Plates

To evaluate settlement and compaction during the fill placement and grading during Golf Course construction, settlement plates were installed throughout the former landfill. Annual settlement plate monitoring began after completion of Golf Course construction in 2015, and on June 15, 2023, the NYSDEC approved discontinuation of settlement monitoring activities under the condition that the former landfill continue to be utilized and maintained as a golf course.

One settlement plate is located within the bounds of the Development Site. If encountered during site excavation, the settlement plate would be decommissioned and removed. Installation of new settlement plates is not anticipated for future development since the buildings would be constructed on piles.

5.6 Site Preparation

Prior to commencing construction, the Contractor will mobilize to the site and prepare for development activities. Mobilization and site preparation activities may include the following:

- Identifying the location of aboveground and underground utilities (e.g., power, gas, water, sewer, and telephone), equipment, and structures as necessary to implement construction
- Mobilizing necessary personnel, equipment, and materials to the site
- Constructing one or more stabilized construction entrances consisting of non-hazardous material at or near the site exit, which takes into consideration the site setting and site perimeter
- Constructing an equipment decontamination pad for trucks, equipment, and personnel that come into contact with impacted materials during construction
- Installing temporary fencing or other temporary barriers to limit unauthorized access to areas where construction will be conducted.

Anticipated site logistics, including a Site Logistics Plan, Excavation Foundation Building Plan, and Superstructure Building Plan, are provided in Figures 7 through 9, respectively.

5.6.1 Erosion and Sedimentation Controls

Based on the size of the site and the planned excavation, common erosion and sedimentation control practices (i.e., perimeter silt fencing, inlet protection, stabilized construction entrances, dust control via water sprinkling, etc.) will be necessary and will be implemented in accordance with the project-specific SWPPP, as described in Section 5.4. Best management practices for soil erosion will be selected to minimize erosion and sedimentation off-site from the start to end of COUWP implementation.

5.6.2 Temporary Stabilized Construction Entrance(s)

Temporary stabilized entrances will be constructed along Ring Road. The entrances will be covered with gravel or RCA and graded so that runoff water will be directed to the site. Vehicles exiting construction areas will be cleaned using clean water or dry brushing, as needed, to remove site soil from the tires and undercarriages. The Contractor will protect and maintain the existing sidewalks and roadways at site access points.

5.6.3 Utility Marker and Easements Layout

Prior to construction, the Contractor will identify utilities and easements that might be affected by the development project and implementation of all required, appropriate, or necessary health and safety measures under this COUWP. The Contractor is responsible for safe execution of all invasive and other work performed under this COUWP. The Contractor will obtain any local, state, or federal permits or approvals pertinent to such work that may be required to implement this COUWP. Approval of this COUWP by NYSDEC does not constitute satisfaction of these requirements.

5.6.4 Equipment and Material Staging

During mobilization, construction equipment will be delivered to the site, temporary facilities constructed, and temporary utilities installed. The Contractor will place and maintain temporary toilet facilities within the work areas for use by all site personnel.

5.6.5 Site Fencing

The site perimeter will be secured with gated, signed, plywood fencing maintained by the contractor. The purpose of the fencing is to limit site access to authorized personnel, protect pedestrians from site activities, and maintain site security.

5.6.6 Demobilization

After construction is completed, the Contractor will be responsible for demobilizing labor, equipment, and materials not designated for off-site disposal. The PE will document that the Contractor performs follow-up coordination and maintenance for the following activities:

- Removal of sediment and erosion control measures and disposal of materials in accordance with applicable rules and regulations
- Removal of remaining contaminated material or waste
- Equipment decontamination
- General refuse disposal

5.7 Demolition

In preparation for site redevelopment, the existing buildings and structures will be demolished to facilitate site construction. Existing structures include a parking lot, roadways, the golf clubhouse and practice areas.

5.8 Support of Excavation

The existing site grade varies considerably moving west to east across the development site. The existing parking lot grade varies from about el 10 to 24 (at the proposed western side of the building), with portions of the existing golf course at about el. 30 to 35 (eastern portion of the proposed building). The lowest level of the building, B2, has a proposed slab elevation at el 15. Based on the general grade at the site, coupled with the size of the proposed project, a majority of the site excavation will consist of sloping and grading the site to achieve the lowest level subgrade.

For a portion of the eastern boundary of the building, where the building will be in proximity to the existing golf course, we anticipate a limited and localized support of excavation (SOE) system to be utilized, if needed. The actual selection and layout of the limited SOE system will be confirmed prior to construction; however, we expect the SOE will likely consist of steel solider piles and timber lagging or potentially an interlocking steel sheet pile system. Lateral bracing with tieback anchors may be needed to provide additional resistance against the earth pressures that are imposed. Refer to Figure 10 for an SOE reference section. The limited SOE system will be proportioned to support earth pressures, hydrostatic pressures, utilities, and construction equipment surcharges adjacent to excavation.

5.9 Soil Management Plan

This section presents the approach to management and disposal of soil and fill excavated from the Development Site. This plan is based on the current knowledge of site conditions and will be augmented, as necessary, using additional data collected during the preliminary waste characterization.

Langan personnel, under the direction of the Environmental Engineer, will monitor and document soil handling and will assist the Contractor in identifying impacted fill/soil during construction.

Separate stockpile areas will be constructed, as needed, for the various materials to be excavated or generated, with the intent to manage and characterize the materials and to avoid comingling of impacted soil/fill with non-impacted soil/fill most efficiently.

5.9.1 Soil Screening

Visual, olfactory and PID soil screening and assessment will be performed by Langan field representatives under the direct supervision of the Environmental Engineer or QEP during all development excavations into known or potentially contaminated material. Soil screening is performed regardless of when the invasive work is done and will include all excavation and invasive work performed during the development phase, such as excavations for foundations and utility work.

5.9.2 Stockpiling

Stockpiles will be constructed as necessary to separate and stage excavated material pending loading or additional characterization sampling. Separate stockpile areas will be constructed to avoid comingling materials of differing waste types. Stockpile areas will meet the following minimum requirements:

- Excavated soil will be placed onto a minimum thickness of 6-mil low-permeability liner of sufficient strength to prevent puncture during use; separate stockpiles will be created where material types are different (e.g., petroleum-impacted material stockpiled in a contaminated soil area). The use of multiple layers of thinner liners is permissible.

- Equipment and procedures will be used to place and remove the soil that will minimize the potential to jeopardize the integrity of the liner.

- Stockpiles will be covered at the designated times (see below) with minimum 6-mil plastic sheeting or tarps which will be securely anchored to the ground. Stockpiles will be routinely inspected, and broken sheeting covers will be promptly replaced.

- Stockpiles will be covered upon reaching their capacity (i.e., about 1,000 cubic yards) until ready for loading. Stockpiles that have not reached their capacity, whether active or inactive, will be covered at the end of each workday. A typical stockpile detail is provided in Figure 11.

- Each stockpile will be encircled with silt fences and hay bales, as needed, to contain and filter particulates from rainwater that has drained off the soils and to mitigate the potential for surface water run-off.

- Stockpiles will be inspected at a minimum of once daily and after every storm event. Results of inspections will be recorded in a logbook, maintained at the site, and made available for inspection by the NYSDEC.

5.9.3 Soil/Fill Excavation and Load Out

A Langan field representative under the supervision of the Environmental Engineer or QEP will monitor ground-intrusive work and the excavation and load-out of excavated soil/fill. Based on current design plans, it is assumed that an area of about 300,000 square feet will be excavated to about 10 feet below grade surface during construction. An estimated total of ±175,000 cubic yards (CY) of material will be generated: about ±150,000 CY to be excavated for building construction; and ±25,000 CY to be generated by site grading and construction of access roads, walkways, and landscaped areas. Of the ±150,000 cubic yards to be excavated for building construction, an estimated ±16,000 CY will consist of landfill material.

Bally's and its contractors are solely responsible for safe execution of ground-intrusive and other development work performed under this COUWP. Bally's and its contractors are solely responsible for the identification of utilities and/or easements that might be affected by the work conducted under this COUWP.

When excavating in closed landfill cells, best management practices will be implemented to limit the disturbance to other areas. This includes erosion and sediment control (detailed in Section 5.6.1), odor and dust control (Section 5.2.2), leachate management (Section 5.9.7), gas management through CAMP implementation (Section 5.2.1), stability and structural integrity (Section 5.8), limiting site access (Section 5.6.5), excavation oversight, and implementation of a HASP (Section 5.2) during excavation activities.

Loaded vehicles leaving the site will be appropriately lined, securely covered, manifested, and placarded in accordance with the appropriate federal, state, and local requirements, including applicable transportation requirements (i.e., New York State Department of Transportation [NYSDOT] and NYCDOT requirements). Trucks hauling fill material will not be lined unless free liquids are present, or the material is grossly impacted.

A truck wash/cleaning area will be operated on-site (see Section 5.6.2). The Environmental Engineer will be responsible for documenting that outbound trucks will be cleaned and/or washed at the truck inspection station, as necessary, before leaving the site until the construction is complete. Locations where vehicles enter or exit the site will be inspected daily for evidence of off-site sediment tracking.

The Environmental Engineer will be responsible for documenting that egress points for truck and equipment transport from the site will be clean of dirt and other materials derived from the site

during development. The Contractor will clean adjacent streets as necessary to maintain a clean condition with respect to site-derived soil/fill.

The presence of utilities and easements on the site will be investigated by Bally's and its contractors. Bally's and its contractors are responsible for safe implementation of the planned work under this COUWP.

Vehicles leaving the site will not be overloaded. The Environmental Engineer's representative will make reasonable efforts to observe that vehicles are not loaded beyond their NYSDOT weight rating, and that material is secured beneath the truck bed cover.

Bally's and associated parties preparing development documents submitted to New York State, and the parties performing this work, are responsible for the safe performance of ground-intrusive work, the structural integrity of excavations, and for structures that may be affected by excavations (such as building foundations).

Mechanical processing of fill and contaminated soil on-site is prohibited unless otherwise approved by NYSDEC.

5.9.4 Soil/Fill Transport Off-site

Transport of soil/fill will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded. Trucks will enter and exit the site using Ring Road.

Trucks loaded with site materials will exit the vicinity of the Development Site using approved truck routes shown on Figure 12. These routes are the most appropriate routes to and from the site and take into account:

- Limiting transport through residential areas and past sensitive sites
- Use of city mapped truck routes
- Limiting off-site queuing of trucks entering the facility
- Limiting total distance to major highways
- Promoting safety in access to highways
- Overall safety in transport
- Community input (where necessary)

Trucks will be prohibited from excessive stopping and idling in the neighborhood outside of the site.

Egress points for truck and equipment transport from the site will be kept clean of dirt and other soil/fill during development.

To the extent possible, queuing of trucks will be performed on-site to minimize off-site disturbance. Off-site queuing will be minimized.

Soil/fill transported by trucks exiting the site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet soil/fill capable of producing free liquid, truck liners will be used.

5.9.5 Soil/Fill Disposal Off-Site

Proposed disposal facilities will be submitted to NYSDEC Project Manager for review and approval prior to off-site transport and disposal of excavated soil/fill. Soil/fill excavated and removed from the site will be handled, transported and disposed in accordance with local, state (including 6 NYCRR Part 360) and federal regulations. If disposal of soil/fill from this site is proposed for unregulated disposal (i.e., clean soil removed for development purposes), a formal request with an associated plan will be made to NYSDEC's Project Manager. Unregulated off-site management of soil/fill from this site is prohibited without formal NYSDEC approval. Material that does not meet NYSDEC Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) is prohibited from being taken to a New York State recycling facility (6 NYCRR Part 360-16 Registration Facility).

The following documentation will be obtained and reported by the Environmental Engineer for each disposal location used in this project to fully demonstrate and document that the disposal of material derived from the site conforms to applicable laws:

(1) A letter from the Environmental Engineer or Bally's to the receiving facility describing the material to be disposed and requesting formal written acceptance of the material. The letter will provide the project identity and the name and phone number of the Environmental Engineer. The letter will include as an attachment a summary of all chemical data for the material being transported (including waste characterization data).

(2) A letter from each receiving facility stating that it is in receipt of the correspondence (above) and acceptance of the material is approved.

These documents will be included in the CCR.

Non-hazardous fill and contaminated soil transported off-site will be handled, at a minimum, as a solid waste per 6 NYCRR Part 360. Non-hazardous fill and contaminated soil excavated from the site are prohibited from being disposed of at Part 360 Registration Facilities (also known as Soil Recycling Facilities).

Soil that is contaminated but non-hazardous and is removed from the site is considered by the NYSDEC Division of Materials Management (DMM) to be construction and demolition (C&D) materials with contamination not typical of virgin soils. Soil not meeting UU SCOs will be considered a solid waste unless a beneficial use determination (BUD) is processed stating otherwise. This soil may be sent to a permitted Part 360 landfill in New York or other appropriate out-of-state disposal facility permitted to accept contaminated soil from a brownfield site. This soil may be sent to a permitted C&D processing facility without permit modifications only upon prior notification of NYSDEC Region 2. This material is prohibited from being sent or redirected to a New York Part 361.5 or 360-15 Registration Facility.

The CCR will include an accounting of the destination of material removed from the site during implementation of the work plan, including excavated soil, contaminated soil, fill, solid waste, and hazardous waste, if identified. Demolition operations, including characterization, handling and disposal of associated waste and C&D debris will not be overseen or reviewed by the Environmental Engineer. These operations should be performed by the contractor in accordance with applicable guidance and regulations. Documentation associated with disposal of each material type must also include records and approvals for receipt of the material. This information will also be presented in a table to be included in the CCR.

A "Bill of Lading" system or equivalent will be used for off-site movement of non-hazardous wastes and contaminated soils. This information will be reported in the CCR. Hazardous wastes derived from the site, if any, will be stored, transported, and disposed of in compliance with applicable local, state, and federal regulations.

Appropriately licensed haulers, in compliance with applicable local, state, and federal regulations, will be used to transport the material removed from this site.

A waste characterization study will be performed for soil and weathered bedrock intended for off-site disposal in a manner suitable to the receiving facility and in conformance with applicable permits. Sampling and analytical methods, sampling frequency, analytical results, and quality assurance (QA)/Quality Control (QC) results will be reported in a separate waste characterization report. Data available for excavated material to be disposed of at a given facility must be submitted to the disposal facility with suitable explanation prior to shipment and receipt.

Soil samples collected during the waste characterization study will be analyzed via the following methods:

- Part 375/Target Compound List (TCL) VOCs by United States Environmental Protection Agency (USEPA) Method 8260C
- SVOCs by USEPA Method 8270D

- PCBs by USEPA Method 8082A
- Target Analyte List (TAL) metals, including hexavalent and trivalent chromium by USEPA Method 6010D
- Pesticides and herbicides via USEPA Method 8081B and 8151A, respectively
- Total cyanide by USEPA Method 9010C
- NYSDEC 40-List per- and polyfluoroalkyl substances (PFAS) by USEPA Method 1633
- 1,4-dioxane by USEPA Method 8270D with selected ion monitoring (SIM)

The area to be excavated will be divided into distinct vertical and horizontal grids/areas. For each grid/area, an excavation plan will be developed to identify the characterization data associated with the volume of soil/fill represented.

5.9.6 Soil/Fill Reuse On-Site

Reuse of site soil is anticipated as part of site redevelopment. Soil excavated during construction may be reused on-site if the requirements in this section are met. Grossly-impacted soil or soil containing debris or other solid waste will not be reused. Reused soil must be non-hazardous and must meet the site-specific chemical limits, as described in Section 2.4. Soil to be used within the top two feet of the site cover will meet Part 375 Commercial Use SCOs (as set forth in Table 375-6.7(d) of 6 NYCRR Part 375). Determination of the quantity of soil that would be suitable for reuse would not be available until the waste characterization study was completed.

Shaping material removed during construction or removed for grading or other purposes will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines. To the extent feasible, topsoil throughout the site will be reused. The Environmental Engineer will follow the procedures defined for materials reuse in this COUWP and unacceptable material will not remain on-site. Concrete crushing or processing on-site is prohibited without NYSDEC approval.

Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the site is prohibited for reuse on-site. Reuse of soil will be coordinated in advance with the NYSDEC Project Manager. Soil/fill deemed unfit for reuse will be transported for off-site disposal.

5.9.7 Fluids Management

Liquids to be removed from the site, including dewatering fluids, will be handled, transported, and disposed of in accordance with applicable local, state, and federal regulations. The contractor will either dispose of the accumulated water at an off-site disposal facility permitted to accept the waste or discharge to the New York City sewer system, following treatment and permitting. Dewatering is not anticipated during development-related excavation.

Any landfill leachate encountered during excavation activities will be properly collected, treated, and/or disposed of, as needed. Leachate levels and quality will be monitored regularly during excavation activities, if encountered. Encountering leachate is not anticipated during development-related excavation.

5.9.8 Contingency Plan for Unanticipated Contamination

If underground storage tanks (UST) or other previously unidentified contaminant sources are found during on-site excavation or development-related construction, sampling will be performed on product, if encountered, and surrounding subsurface materials (e.g., soil, stone, etc.). Chemical analyses will be for full scan parameters (Part 375 TCL VOCs, SVOCs, PCBs, pesticides, TAL metals, 1,4-dioxane and PFAS). Analyses will not be otherwise limited without NYSDEC approval.

Identification of unknown or unexpected contaminated media identified by screening during ground-intrusive work will be promptly communicated by phone to the NYSDEC Project Manager. These findings will also be detailed in the daily reports and the subsequent monthly progress report.

5.10 Soil Import

Based on preliminary design plans, an estimated ±43,000 cubic yards of import material will be needed to meet development grades across the site. An estimated ±11,000 cubic yards of topsoil will be needed for landscaped areas. Existing topsoil will be reused to the extent feasible. Materials proposed for import onto the site will be approved by the Environmental Engineer and will be in compliance with the provisions in this COUWP prior to receipt at the site. Imported soil for backfill must meet the Part 375 Restricted-Residential Use (RRU) SCOs (as set forth in Table 375-6.7(d) of 6 NYCRR Part 375), or other acceptable fill material such as virgin, native stone from a quarry or recycled concrete aggregate (RCA). Non-compliant soils will not be imported onto the site without prior approval by NYSDEC. Nothing in the approved COUWP or its approval by NYSDEC should be construed as an approval for this purpose. Material from industrial sites, spill sites, other environmental remediation sites, or other potentially contaminated sites will not be imported to the site. Solid waste will not be imported onto the site.

The CCR will include the following certification by the Environmental Engineer: "I certify that all import of soils from off-site, including source evaluation, approval, and sampling, has been performed in a manner that is consistent with the methodology defined in the COUWP".

Backfill material will consist of clean fill (as described in the following paragraph) or other acceptable fill material such as virgin stone from a quarry or RCA. If RCA is imported to the site, it will be from a NYSDEC-registered facility in compliance with 6 NYCRR Part 360 registration and permitting requirements for the period of acquisition of RCA. RCA imported from compliant

facilities will not require chemical testing, unless required by the NYSDEC under the terms for operation of the facility. RCA imported to the site must be derived from recognizable and uncontaminated concrete, with no more than 10% by weight passing through a No. 10 sieve.

Imported soil (e.g., clean fill) will meet the RRU SCOs. Non-compliant soils will not be imported to the site. Clean fill will be segregated at a source/facility that is free of environmental contaminants. Qualified environmental personnel will collect representative samples at a frequency consistent with NYSDEC CP-51 and DER-10. The samples will be analyzed for Part 375 VOCs, SVOCs, pesticides/herbicides, PCBs, cyanide, metals including trivalent and hexavalent chromium, er- and polyfluoroalkyl substances (PFAS) and 1,4-dioxane by a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified laboratory. Upon meeting these criteria, the clean fill will be transported to the site and segregated from impacted material, as necessary, on plastic sheeting until it is used as backfill.

Soils that meet 'exempt' fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for this site, will not be imported onto the site without prior approval by the NYSDEC. The contents of this COUWP and NYSDEC approval of this COUWP should not be construed as an approval for this purpose.

Trucks entering the site with imported soils will be secured with tight fitting covers.

6. ENVIRONMENTAL AND PUBLIC HEALTH ASSESSMENTS

6.1 Qualitative Human Health Exposure Assessment

Based upon a review of environmental data, limited on-site exposure pathways appear to be present under current conditions, but in the absence of ICs and ECs, complete on-site exposure pathways could potentially exist during construction and future conditions.

Complete exposure pathways have the following five elements: 1) a contaminant source; 2) a contaminant release and transport mechanism; 3) a point of exposure; 4) a route of exposure; and 5) a receptor population. A discussion of the five elements comprising a complete pathway as they pertain to the site is provided below.

6.1.1 Current Conditions

Contaminant sources include landfill contents (municipal solid waste) and landfill gas, resulting from the decomposition of organic material in municipal solid waste, and groundwater containing metals and cyanide above SGVs. Municipal solid waste material consists of metal, glass, tires, plastics, rubber, paper, fabrics, and miscellaneous debris. Landfill gas is comprised mainly of methane and carbon dioxide, along with traces of other gases.

Under current conditions, the likelihood of human exposure is limited, as 1) the site is covered by a clean soil cover system and building slabs; 2) the site is not a source of drinking water; and 3) landfill gas is managed through active and passive systems to prevent exposure to site occupants.

6.1.2 Construction Activities

During development, the contaminant sources are the same as for current conditions. Points of exposure include disturbed and exposed soil/municipal solid waste during excavation, dust and organic vapors generated during excavation, and contaminated groundwater that may be encountered during excavation (although excavation is not anticipated to reach groundwater). Routes of exposure include ingestion and dermal absorption of contaminated soil and groundwater and inhalation of dust arising from contaminated soil. The receptor population includes construction workers and, to a lesser extent, the public adjacent to the site.

The potential for completed exposure pathways is present during development since all five elements exist; however, the risk will be minimized by the implementation of appropriate health and safety measures, such as monitoring the air for organic vapors and dust, using vapor and dust suppression measures, cleaning truck undercarriages before they leave the site to prevent off-site soil tracking, maintaining site security, and wearing the appropriate personal protective equipment (PPE).

6.1.3 Proposed Future Conditions

For the proposed future conditions, the site cover and monitoring systems will be restored. The new building slabs will serve as a new site cap across the building footprints and the soil cover and asphalt-paved areas outside the footprints will be restored following construction. Potential exposure to residual soil includes exposure during any future soil-disturbing activities. Another potential route of exposure will be inhalation of vapors entering the buildings. The receptor population includes potential building tenants and/or employees, visitors and maintenance workers. The possible routes of exposure can be avoided or mitigated by the installation of ECs, such as a site capping system and SMD system, and implementation of ICs, such as a PCCCP. ECs are further discussed in Section 7.

6.1.4 Human Health Exposure Assessment Conclusion

1. Under current conditions, there is a marginal risk for exposure. The primary exposure pathways are dermal contact, ingestion and inhalation of soil, dust, or groundwater by site visitors in instances where the impermeable site cover is compromised or during site investigation. The exposure risks can be avoided or minimized by following the appropriate HASP and vapor and dust suppression measures, and by implementing a CAMP during intrusive activities.

2. There is a moderate risk of exposure during the construction activities in the absence of site security, HASP and CAMP implementation, and dust and vapor control measures. The primary exposure pathways are:

    a. Dermal contact, ingestion and inhalation of contaminated soil by construction workers.

    b. Dermal contact, ingestion and inhalation of soil (dust) by the community in the vicinity of the site.

    These can be avoided or minimized by performing community air monitoring and by following the appropriate health and safety, dust suppression, and site security measures outlined in a site-specific HASP.

3. The existence of a complete exposure pathway for site contaminants to human receptors under future conditions is unlikely, as the impermeable foundation and clean soil cover will serve as a cap preventing exposure. Regional groundwater is not used as a potable water source in New York City, so exposure to regional groundwater contaminants is unlikely. Soil vapor will be managed through active and passive management systems.

4. It is unlikely that a complete exposure pathway exists for the migration of site contaminants to off-site human receptors for current, construction phase, or future

conditions. Monitoring and control measures will be used during construction to prevent completion of this pathway. Under future conditions, ECs will be implemented (e.g., site-wide cap and a waterproofing/vapor barrier) to prevent completion of this pathway.

6.2 Fish and Wildlife Impacts

6.2.1 Discussion of Natural Resources

The Development Site is not adjacent to the waterfront; however, it is part of FPP, a public park which fronts along the East River and Westchester Creek, which are natural resources as defined by the CEQR Technical Manual. In addition, portions of Ring Road and FPP west of the Hutchinson River Expressway are denoted on the NYSDEC Environmental Resource Mapper as located in the vicinity of "rare plants or animals, rare dragonflies and damselflies". The Development Site is located wholly outside areas classified by NYSDEC as areas of "rare plants or animals" or "significant natural communities." Consultations will be made with local, state, and federal agencies for further input on the natural resources on or near the site. Regardless, a natural resources assessment, in the form of a DEIS, will be provided during the planning phases of construction. This assessment will evaluate the potential presence of natural resources and the potential impact that the proposed development may have on natural resources. The assessment will describe existing regulatory context, wildlife, vegetation, geology and soils, ground and surface water, water quality and aquatic resources, wetlands, and rare, threatened, or endangered species.

6.2.2 Discussion of Wetland Mitigation

Wetlands were evaluated by reviewing the National Wetlands Inventory and NYSDEC regulated wetlands map. There are no regulated wetlands on the Development Site. The closest wetland includes a freshwater emergent wetland, located about 300 feet west.

Another element that should be considered for this location is the floodplain elevation. The Federal Emergency Management Agency (FEMA) develops Flood Insurance Rate Maps (FIRM) to provide information on evolving floodplains. The 2013 preliminary FIRM (pFIRM) published by FEMA shows that portions of the site are in the 100-year (Zone AE) and 500-year floodplains, and other portions are in an area of minimal flood hazard chance. The base flood elevation at the site is 13 feet.

6.3 Conceptual Site Model (CSM)

A conceptual site model (CSM) was developed based on previous investigations to produce a simplified framework for understanding the distribution of impacted materials, potential migration pathways, and potentially complete exposure pathways.

6.3.1 Potential Sources of Contamination

Potential sources of contamination have been identified and include municipal solid waste and landfill gas from former historical site use as a landfill.

The subsurface conditions at the site generally consist of a topmost layer (including vegetation, asphalt, and other ground cover), followed by BPM ranging in thickness from 12 to 24 inches, a demarcation barrier in select areas, and shaping material above the former landfill material. Before construction of the Golf Course, previous investigations note a layer of miscellaneous fill, which ranges from 2 to 13 feet thick, that overlies the municipal solid waste, which is as thin as 2 feet to as thick as 34 feet throughout the site.

Shaping material and BPM imported during Golf Course construction adhered to site specific chemical limits, as detailed in Section 2.4. Chemical limits were designed in compliance with the applicable criteria at the time, TAGM 4046, for VOCs, SVOCs, PCBs, and metals, as well as 0.5% for total asbestos and sulfur, 16 ppm for arsenic, and 400 ppm for lead.

TAGM 4046 is a precursor to NYSDEC 6 NYCRR Part 375, which will be the applicable standards for the site during redevelopment. TAGM 4046 set forth standards and practices for dealing with sites that had been contaminated by hazardous substances. Cleanup objectives set forth in TAGM 4046 served as a foundational guideline for Part 375 regulations, which established specific cleanup criteria based on the proposed use of a site.

6.3.2 Exposure Media

Impacted media includes soil and soil vapor, and to a much lesser extent groundwater. Groundwater is not a potable source of water and the concentrations of contaminants in groundwater suggest no increase in impacts due to golf course construction.

6.3.3 Receptor Populations

The site is improved with the Golf Course's clubhouse, parking lot, and portion of the practice area. Under future conditions, human receptors may include construction workers, guests visiting the site, and the public adjacent to the site, as well as potential future building occupants.

6.4 Potential Exposure Pathways – On-Site

6.4.1 Current Conditions

Human exposure to contaminated soil is prevented by a clean soil layer, paved parking areas, or the foundations of the existing buildings that overlay the Development Site. There is a potential pathway through dermal absorption, inhalation and ingestion for investigation workers that handle soil beneath the surface cover materials, but this is controlled by implementation of a site-specific HASP.

Groundwater in this area of New York City is not used as a potable water source. There is a potential exposure pathway during groundwater sampling associated with site investigation. The potential pathway for site investigation workers is through dermal absorption and ingestion but is controlled by implementation of a site-specific HASP.

Landfill gas and soil vapor are managed through passive and active mitigation systems. Any potential exposure to soil vapor is limited as the majority of the site is an open-air golf course, and the on-site clubhouse was designed with an active SMD system.

6.4.2 Construction Conditions

Construction may result in potential exposures to site contaminants in the absence of a HASP and CAMP. Construction activities will likely include excavation and off-site disposal of impacted soil, and to a lesser extent municipal solid waste (if encountered), and construction of foundation components. In the absence of a HASP and CAMP, this scenario presents the potential for exposure of soil contaminants to construction workers via dermal absorption, ingestion, and inhalation of vapors and particulate matter. This exposure pathway will be marginalized through the implementation of the HASP, CAMP, and vapor and dust suppression techniques.

6.4.3 Proposed Future Conditions

Currently, the contemplated project includes a casino resort building with parking, gaming facilities, food and beverage, retail and hotel uses, and an event center, as well as a new golf clubhouse. The new development will incorporate a cover system across the site and vapor mitigation measures (vapor barrier and SMD system) within the buildings.

There is no pathway for ingesting residual groundwater impacts from former landfill operations, since the site and surrounding areas obtain their drinking water supply from surface water reservoirs located upstate and not from groundwater.

If necessary, institutional controls will require maintenance of engineering controls and will serve to further mitigate exposure under future conditions.

6.5 Potential Exposure Pathways – Off-Site

The potential off-site migration of site soil contaminants is not expected to result in a complete exposure pathway for current, construction, or future conditions for the following reasons:

During site construction, the following protective measures will be implemented:

- A site-specific HASP, including a CAMP, will be implemented to protect on-site personnel and to monitor the perimeter of the site to mitigate off-site migration of particulates and VOCs during construction.

- Air monitoring will be conducted for particulates (i.e., dust) and VOCs during intrusive activities as part of a CAMP. Dust and/or vapor suppression techniques will be employed to limit potential for off-site migration of dust.
- Vehicle tires and undercarriages will be washed prior to leaving the site to prevent tracking soil off-site.
- A soil erosion/sediment control plan will be implemented during construction to control off-site migration of soil.

There is no pathway for ingesting residual groundwater impacts, since the site and surrounding areas obtain their drinking water supply from surface water reservoirs located upstate and not from groundwater.

7. ENGINEERING CONTROLS

Following completion of construction, long-term ECs will be required and are described below.

7.1 Re-Installation of Environmental Infrastructure

During construction, the existing landfill infrastructure within the boundaries of the Development Site will be maintained to the extent feasible. Following ground intrusive development activities, any decommissioned infrastructure will be replaced in kind, or relocated to a suitable alternate location, if needed based on sampling data obtained prior to commencing construction. This includes LFG passive vent wells V-22 and V-23. Figure 13 depicts approximate locations of existing infrastructure and potential locations for infrastructure relocation in the event that it cannot be maintained or replaced in kind during construction.

7.2 Composite Cover System

Exposure to residual contaminated soils will be prevented by an engineered, composite cover system that will be built across the Development Site footprint. An engineered composite cover system will consist of concrete building slabs that will be underlain by a minimum 20-mil vapor barrier/waterproofing membrane, concrete pavement or asphalt, or two feet of clean imported soil in landscaped or pervious locations. Figure 14A shows the extents of the proposed cover systems based on preliminary design plans. Typical composite cover details are provided as Figure 14B. If needed, updated cover system details will be provided to the NYSDEC during the design development phase of the project.

The composite cover system will be a permanent EC. The composite cover will be inspected, and its performance certified at specified intervals as required by the PCCCP. The new PCCCP will outline maintenance requirements and the procedures to be followed in the event that the composite cover system at the Development Site is disturbed after construction is complete.

7.3 Sub-Membrane Depressurization System

In addition to the soil vapor barrier, an SMD system will be installed beneath the foundation slab under the proposed buildings (e.g., clubhouse, casino), in accordance with the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006, updated 2024. The system will include a sub-slab collection layer, riser pipes to convey the collected vapor to the roof, and a roof-mounted blower system. The vacuum blowers will operate continuously after initial startup. Prior to initial start-up of the SMD system, the system will be inspected to confirm that all components are in place. The blower will be maintained in accordance with manufacturer's recommendations. Details of the SMD system will be designed in conjunction with the buildings.

The new PCCCP will outline the procedures to be followed in the event that the mitigation system and underlying residual contamination are disturbed after the development is complete.

Installation of this EC will be documented in the CCR, and maintenance of this mitigation system will be described in the PCCCP.

8. REPORTING REQUIREMENTS

8.1 Daily Reports

Daily reports will be submitted to NYSDEC during on-site construction by noon on the following workday, or at a frequency acceptable to them, following the reporting period and will include:

- The NYSDEC assigned project/permit number
- An update of progress made during the reporting day including a photograph log
- Locations of work and quantities of material imported and exported from the site
- References to an alpha-numeric map for site activities
- A summary of complaints with relevant details (names, phone numbers)
- A summary of CAMP findings, including exceedances, wind direction, work areas, location of CAMP monitoring stations and other relevant site information (exceedances of the 15-minute time weighted average will be reported to the NYSDEC as soon as they are calculated)
- An explanation of notable site conditions

Daily Reports will include a description of daily activities keyed to an alpha-numeric map for the site that identifies work areas. These reports will include a summary of air sampling results, odor and dust problems and corrective actions, and all complaints received from the public.

Daily reports are not intended to be the mode of communication for notification to the NYSDEC of emergencies (accident, spill), requests for changes to the COUWP, or other sensitive or time critical information; however, such conditions must also be included in the daily reports. Emergency conditions and changes to the COUWP will be addressed directly to NYSDEC Project Manager via personal communication.

8.2 Final Construction Completion Report

A CCR will be submitted to NYSDEC following implementation of construction defined in this COUWP. The CCR will include the following:

- Documentation that the work required under this COUWP has been completed and performed in compliance with this plan.
- A comprehensive account of the locations and characteristics of soil/fill removed from the site including the surveyed map(s) of each source, as necessary.

- As-built drawings for all constructed elements, manufacturer documentation for groundwater treatment applications, certifications, manifests, and/or bills of lading
- A description of the changes in the construction from the elements provided in the COUWP and associated design documents, if any
- A tabular summary of documentation sampling results and soil/fill characterization results and other sampling and chemical analyses performed as part of construction.
- Written and photographic documentation of work performed under this COUWP.
- An accounting of the destination of soil/fill removed from the site, including excavated contaminated soil and fill. Documentation associated with the disposal of material must also include records and approvals for receipt of the material.
- An accounting of the origin and chemical quality of each material type imported onto the site.
- Before approval of an CCR, all project reports must be submitted in digital form on electronic media (e.g., PDF).

8.3 Post Construction Custodial Care Plan

After construction has been completed, a new PCCCP will be generated to define the post-construction criteria applicable to the operation, monitoring and maintenance of the environmental protection systems installed as part of site development. The PCCCP will identify all use restrictions and provisions to be followed so that the ECs and ICs remain in place and are effective at the site. Bally's will be responsible for completing routine operation and maintenance of the site. In the future, Bally's may demonstrate that the routine operation and maintenance for the end use of the Development Site, i.e., the casino, meets the performance criteria and petition to modify or terminate the PCCCP. The general procedures for the termination of monitoring activities or abandonment of infrastructure will be detailed further in the PCCCP. In addition, the existing PCCCP will be amended to exclude the Development Site, but continue the long-term management of ECs and ICs by within the remainder of the former landfill area by NYCDPR.

FIGURES

Legend

Approximate Site Boundary

2,000 0 2,000

SCALE IN FEET

Notes:

1. Basemap adapted from United States Geological Survey (USGS) 7.5-Minute Series Topographical Maps, Flushing, New York, Quadrangle.

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Project	Figure Title	Project No.	Figure No.
BALLY'S CASINO AT FERRY POINT PARK	**SITE LOCATION MAP**	170773001	1
		Date: 8/2/2024	
		Scale: 1"=2,000'	
		Drawn By: MG	
BRONX NEW YORK		Submission Date	

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Path: \\langan.com\data\NYC\data0\170773001\Project Data\ArcGIS\APRX\170773001\170773001.aprx Date: 8/2/2024 User: mgeorgalas Time: 9:53 AM

Legend

Approximate Site Boundary

Notes:
1. Survey basemap prepared by Langan, dated 05/23/2024.
2. Aerial imagery provided through Langan's subscription to Near Map, dated 06/16/2024.

500 0 500
SCALE IN FEET

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Project
BALLY'S CASINO AT FERRY POINT PARK
BRONX NEW YORK

Figure Title
EXISTING SITE PLAN

Project No. 170773001	Figure No. 2
Date 8/19/2024	
Scale 1"=500'	
Drawn By MG	

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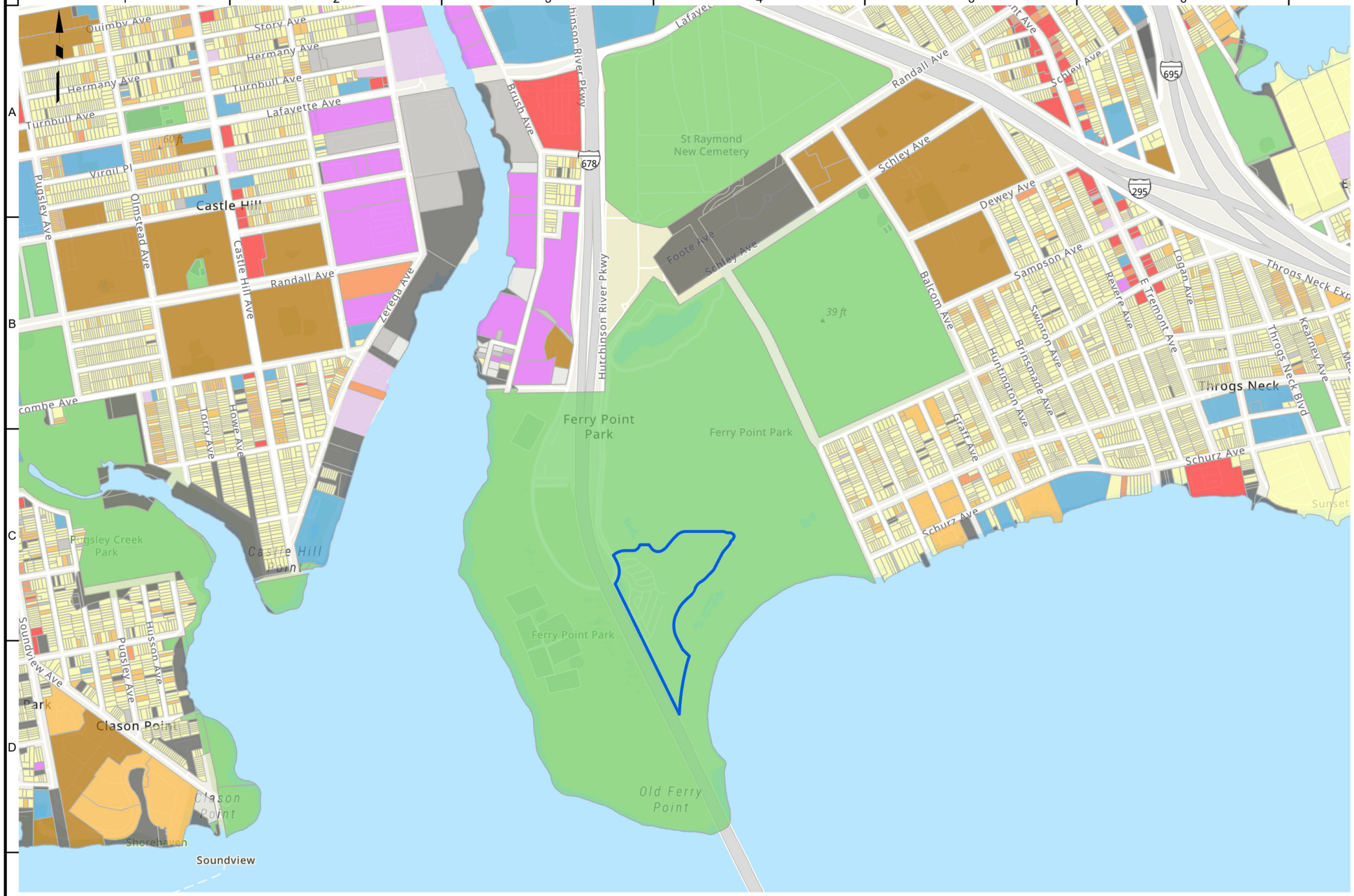

Legend

- Approximate Site Boundary

Land Use

- One & Two Family Buildings
- Multi-Family Walk-Up Buildings
- Multi-Family Elevator Buildings
- Mixed Residential & Commercial Buildings
- Commercial & Office Buildings
- Industrial & Manufacturing
- Transportation & Utility
- Public Facilities & Institutions
- Open Space & Outdoor Recreation
- Parking Facilities
- Vacant Land
- Other/No Data
- Water

Notes:
1. Topographical basemap is provided through Langan's Esri and ArcGIS software licensing and ArcGIS online.
2. Land use data provided by the New York City Department of City Planning.

1,000 0 1,000
SCALE IN FEET

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Project
BALLY'S CASINO AT FERRY POINT PARK
BRONX NEW YORK

Figure Title
SURROUNDING LAND-USE MAP

Project No. 170773001	Figure No. 3
Date 8/2/2024	
Scale 1"=1,000'	
Drawn By MG	

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LEGEND

- APPROXIMATE LOCATION OF SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS)
- V-22 G — APPROXIMATE LOCATION OF LANDFILL GAS (LFG) PASSIVE VENT WELL
- 7 — APPROXIMATE LOCATION OF SETTLEMENT PLATE
- GMW — APPROXIMATE LOCATION OF GROUND WATER MONITORING WELL
- APRROXIMATE LOCATION OF LFG COLLECTION PIPE (UNKNOWN IF STILL IN-PLACE)
- G — APPROXIMATE LOCATION OF LANDFILL GAS (LFG) PASSIVE VENT WELL (UNKNOWN IF STILL IN-PLACE)

NOTES
1. THIS SKETCH IS FOR REFERENCE PURPOSES ONLY. AREAS HAVE BEEN BASED ON SATELLITE IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

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Project: BALLY'S CASINO AT FERRY POINT PARK
BRONX NEW YORK

Figure Title: SITE PLAN WITH ENVIRONMENTAL MONITORING INFRASTRUCTURE

Project No. 170773001
Date 8/19/2024
Drawn By KG
Checked By LE

Figure No. 4

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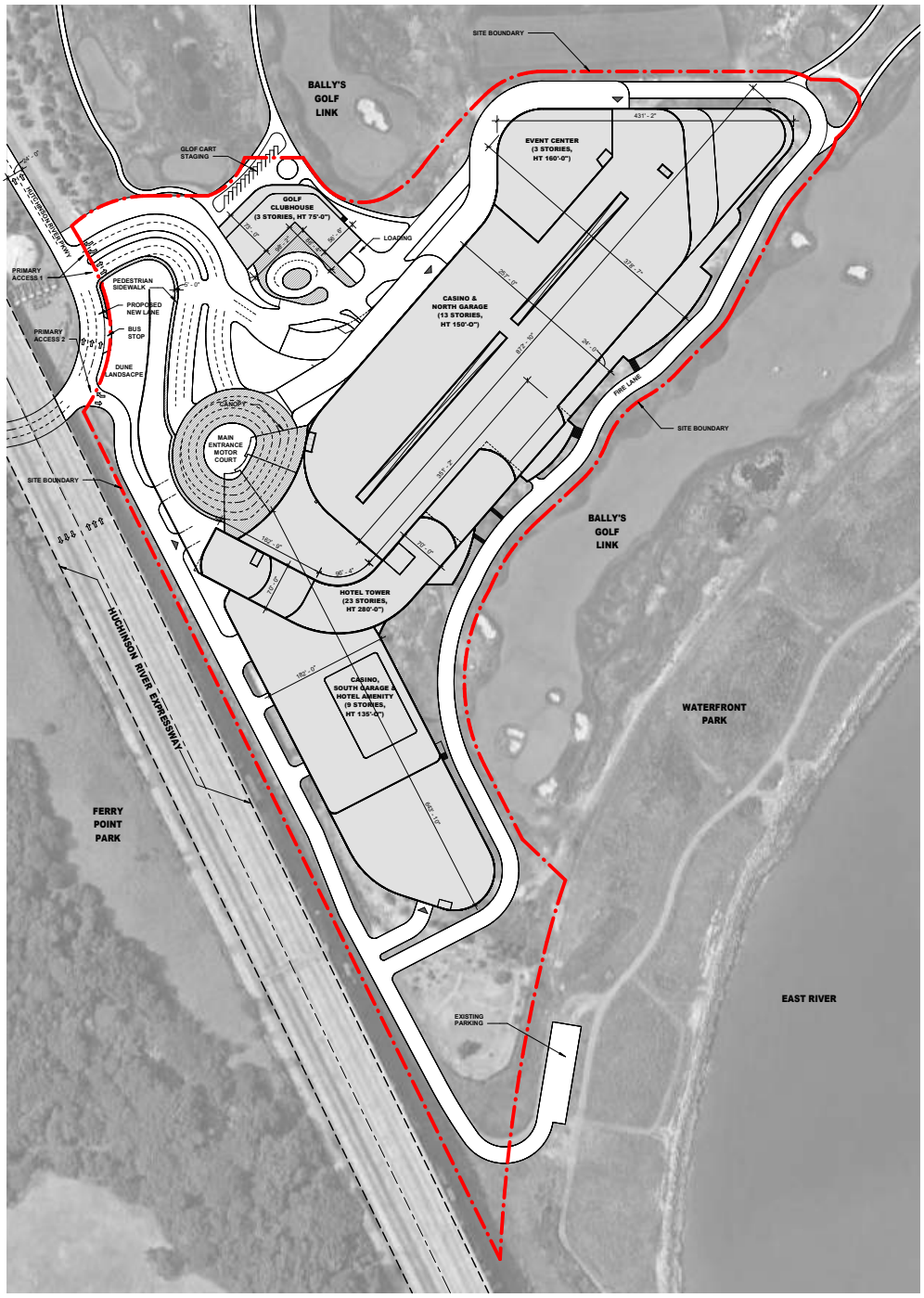

LEGEND

- SITE BOUNDARY
- ROAD DIRECTION
- PROPOSED BUILDING FOOTPRINT
- PAVING
- PARKING ENTRANCE & EXIT

NOTES: 1. PROPOSED DEVELOPMENT SITE TAKEN FROM DRAWING TITLED "Z.01 - SITE PLAN/LOCATION MAP", BY HKS ARCHITECTS, P.C., DATED MAY 2024

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Project
BALLY'S CASINO AT FERRY POINT PARK
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Figure Title
PROPOSED DEVELOPMENT SITE PLAN

Project No.	170773001
Date	01/23/2025
Scale	As Noted
Drawn By	KG
Submission Date	
Figure No.	5A

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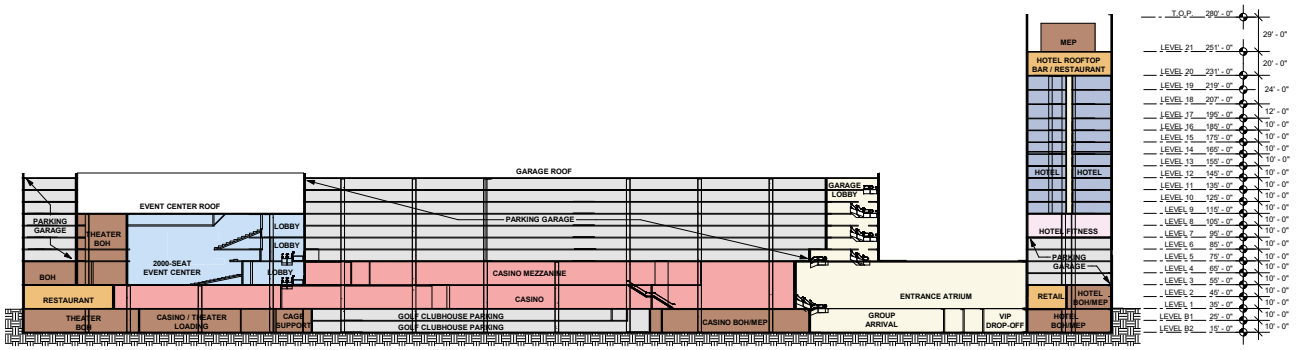

1 BUILDING SECTION

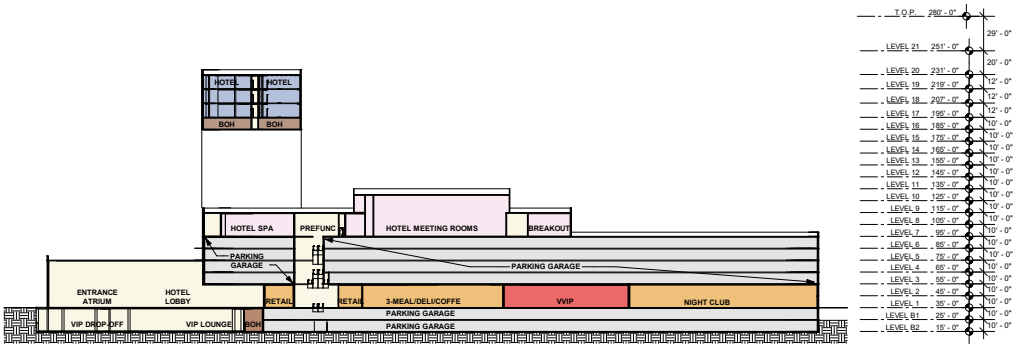

2 BUILDING SECTION

- BOH
- CASINO
- CASINO SPECIAL GAMING
- CIRCULATION
- CORE
- EVENT CENTER
- GOLF CLUBHOUSE
- HOTEL
- HOTEL AMENITY
- HOTEL SUITE
- PARKING
- RESTROOM
- RETAIL / RESTAURANT

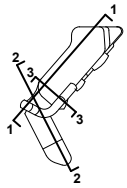

BUILDING SECTIONS

0 50 100 FT

A6.01 03/12/2024 25804.001

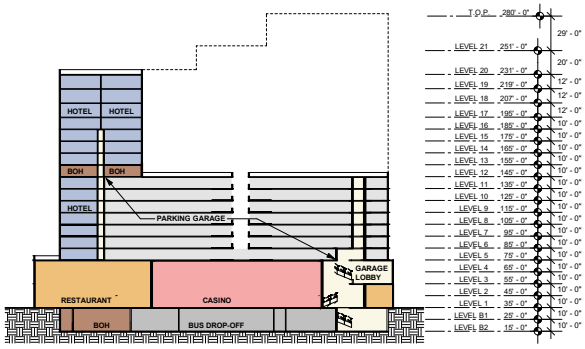

3 BUILDING SECTION

NOTES: 1. PROPOSED DEVELOPMENT SITE TAKEN FROM DRAWING TITLED "A6.01 - BUILDING SECTIONS", BY HKS ARCHITECTS, P.C., DATED MARCH 2024

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Project
BALLY'S CASINO AT FERRY POINT PARK
BRONX NEW YORK

Figure Title
PROPOSED DEVELOPMENT ELEVATIONS

Project No.	170773001
Date	01/23/2025
Scale	As Noted
Drawn By	KG
Submission Date	
Figure No.	5B

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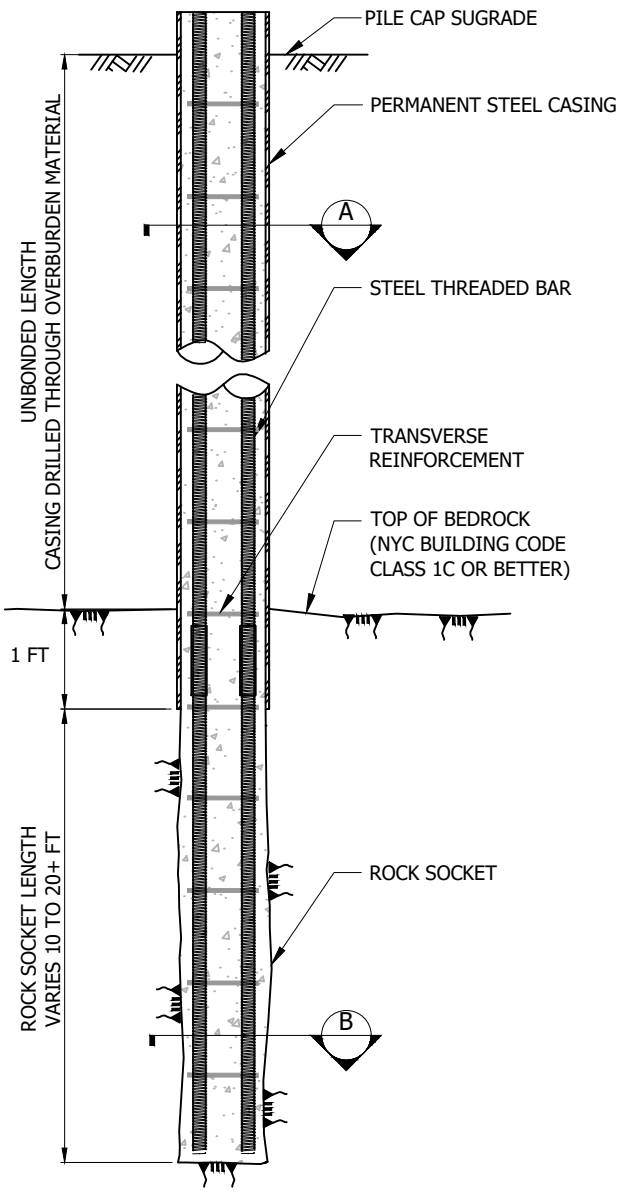

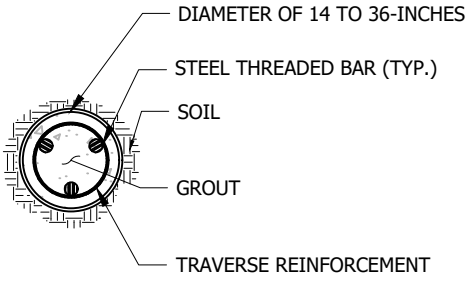

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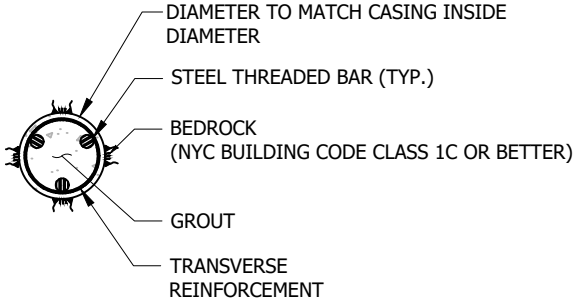

B SECTION
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Project
BALLY'S NEW YORK - FERRY POINT
KINGS NEW YORK

Drawing Title
CAISSON PILE DETAIL

Project No.	170806827
Date	03/03/2025
Drawn By	BGM
Checked By	SWS
Drawing No.	6

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BALLY'S FERRY POINT PARK

SITE LOGISTICS PLAN

2x GATES WITH GUARD GATES AND 2 EA FLAGGERS TYPICAL
16x OFFICE TRAILERS 8X40/EA
4x DUMP TRUCKS
8x DUMPSTERS

0 20 40 80 160

NOTE:
DIAGRAM TAKEN FROM BALLY'S NYC-FERRY POINT SITE LOGISTICS PLAN, PREPARED BY GENSLER, DATED JANUARY 26, 2024

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Project	Figure Title	Project No.	Figure No.
BALLY'S CASINO AT FERRY POINT PARK BRONX NEW YORK	SITE LOGISTICS PLAN	170773001	7
		Date 8/2/2024	
		Drawn By KG	
		Checked By LE	

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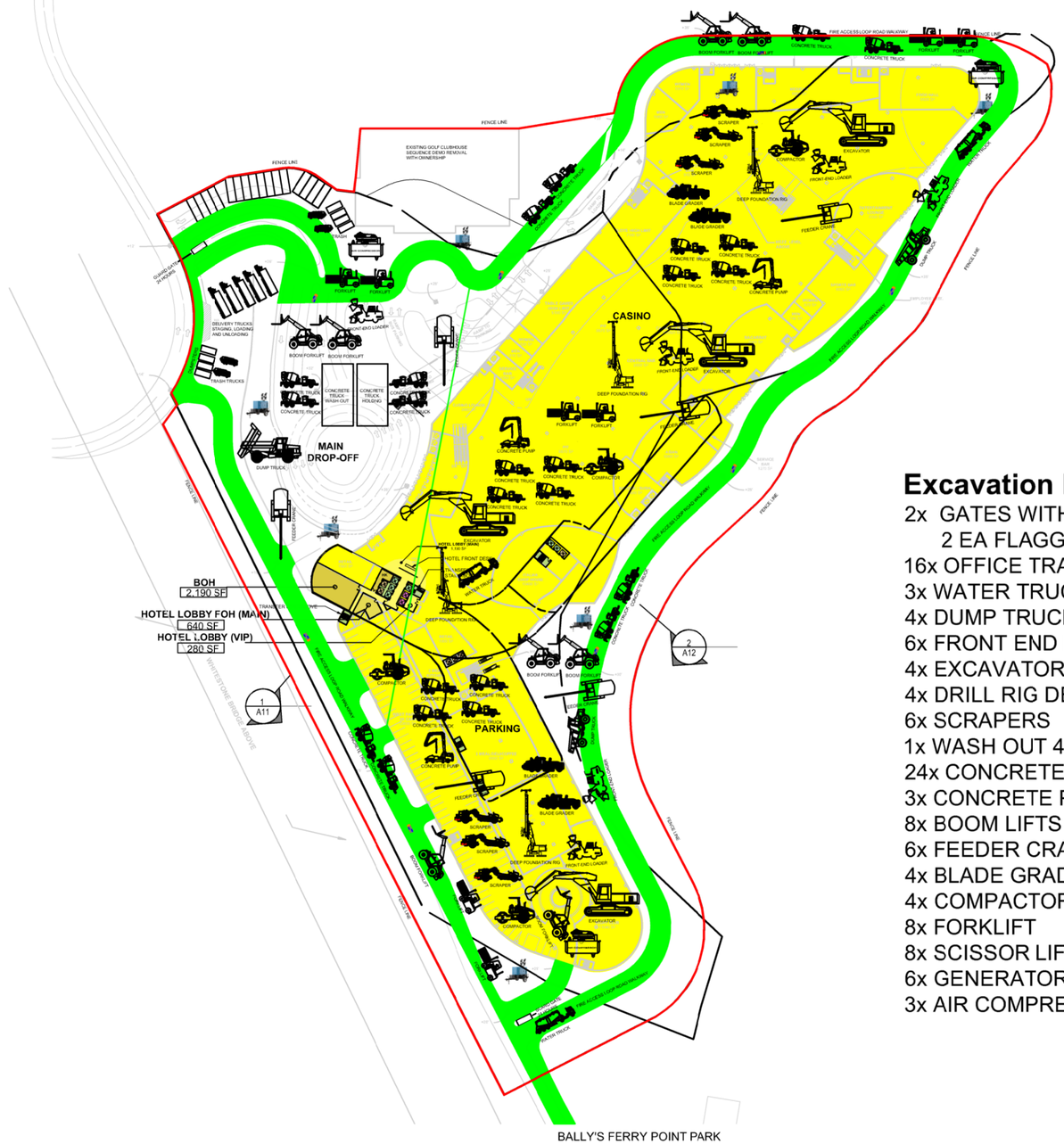

Excavation Foundation Building Plan

2x GATES WITH GUARD GATES AND
2 EA FLAGGERS TYPICAL
16x OFFICE TRAILERS 8X40/EA
3x WATER TRUCKS
4x DUMP TRUCKS
6x FRONT END LOADERS
4x EXCAVATORS
4x DRILL RIG DEEP FOUNDATIONS
6x SCRAPERS
1x WASH OUT 40X40 BOX
24x CONCRETE TRUCKS
3x CONCRETE PUMPS
8x BOOM LIFTS
6x FEEDER CRANES
4x BLADE GRADER
4x COMPACTOR
8x FORKLIFT
8x SCISSOR LIFTS
6x GENERATOR LIGHT PLANTS
3x AIR COMPRESSOR

0 2040 80 160

NOTE:
DIAGRAM TAKEN FROM BALLY'S NYC-FERRY POINT EXCAVATION FOUNDATION BUILDING PLAN, PREPARED BY GENSLER, DATED JANUARY 26, 2024

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Project	Figure Title	Project No.	Figure No.
BALLY'S CASINO AT FERRY POINT PARK BRONX NEW YORK	EXCAVATION FOUNDATION BUILDING PLAN	170773001	8
		Date 8/2/2024	
		Drawn By KG	
		Checked By LE	

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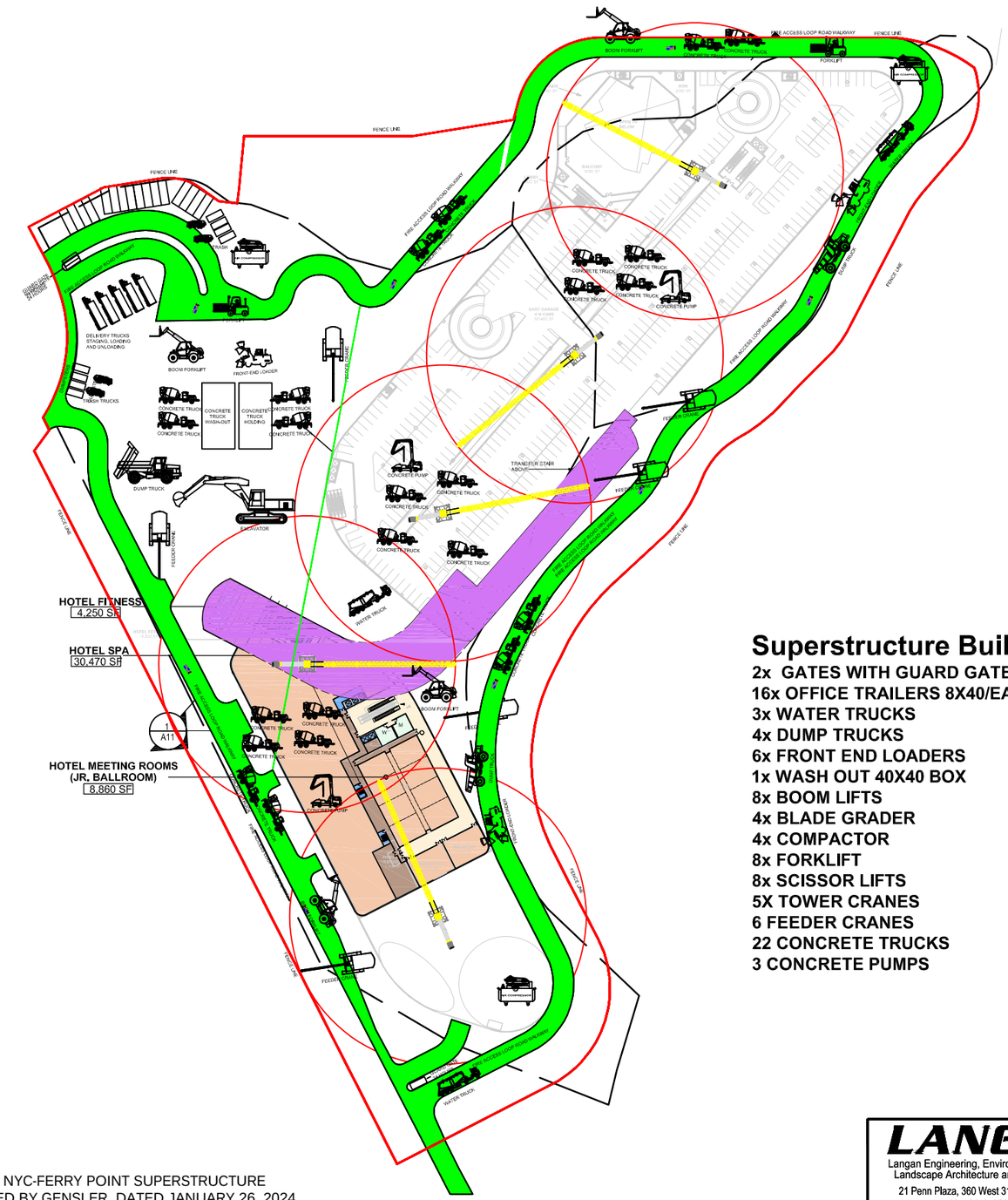

Superstructure Building Plan Sheet

2x GATES WITH GUARD GATES AND 2 EA FLAGGERS TYPICAL
16x OFFICE TRAILERS 8X40/EA
3x WATER TRUCKS
4x DUMP TRUCKS
6x FRONT END LOADERS
1x WASH OUT 40X40 BOX
8x BOOM LIFTS
4x BLADE GRADER
4x COMPACTOR
8x FORKLIFT
8x SCISSOR LIFTS
5X TOWER CRANES
6 FEEDER CRANES
22 CONCRETE TRUCKS
3 CONCRETE PUMPS

0 2040 80 160

NOTE:
DIAGRAM TAKEN FROM BALLY'S NYC-FERRY POINT SUPERSTRUCTURE BUILDING PLAN SHEET, PREPARED BY GENSLER, DATED JANUARY 26, 2024

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BALLY'S CASINO AT FERRY POINT PARK BRONX NEW YORK	SUPERSTRUCTURE BUILDING PLAN	170773001	9
		Date 8/2/2024	
		Drawn By KG	
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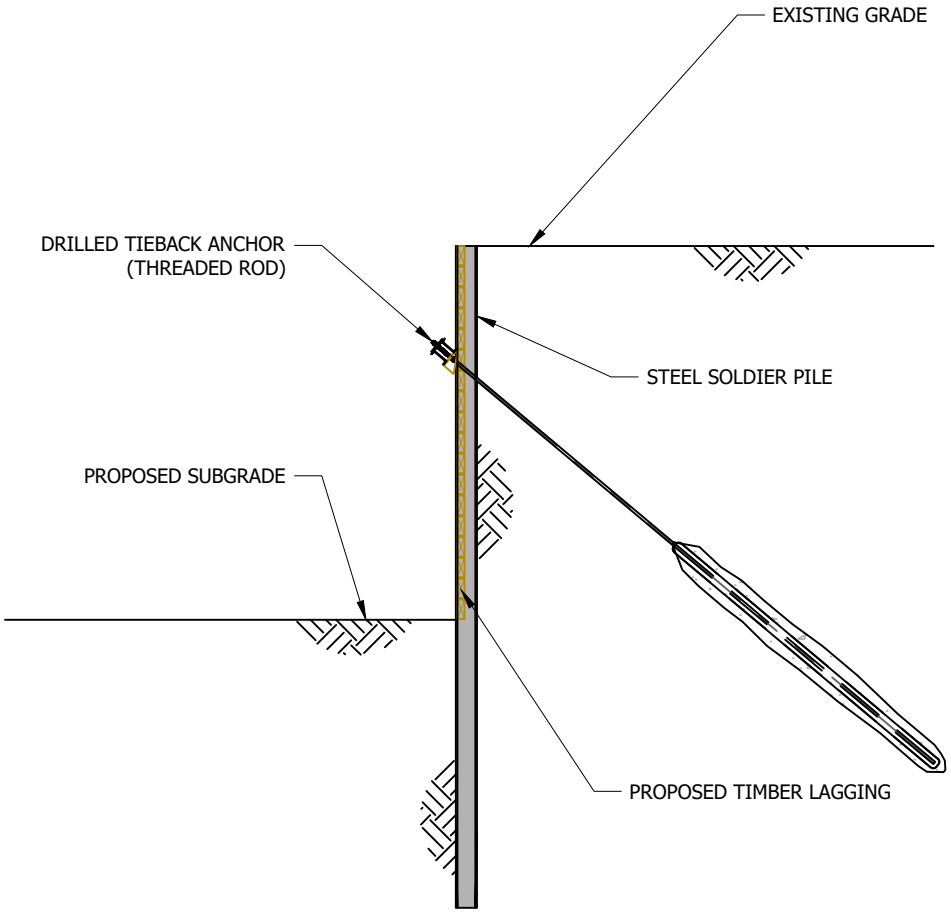

SECTION CONCEPT
SCALE: NTS

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Project
BALLY'S NEW YORK - FERRY POINT
KINGS NEW YORK

Drawing Title
SUPPORT OF EXCAVATION CONCEPT

Project No. 170806827
Date 03/03/2025
Drawn By BGM
Checked By SWS

Drawing No. 10

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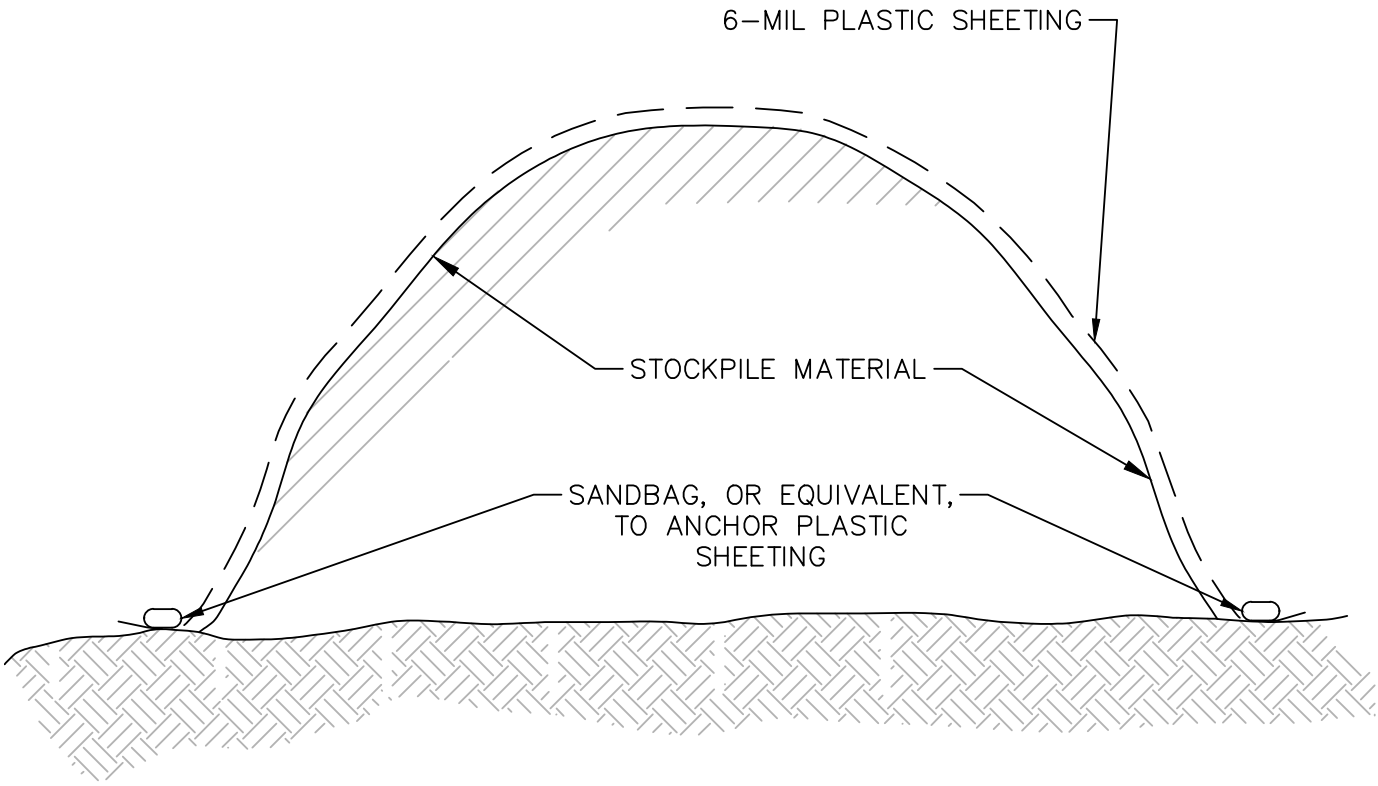

NOTES:

1. SOIL STOCKPILES SHALL BE LIMITED TO 1,000-CY IN SIZE.
2. SOIL STOCKPILES SHALL BE COVERED WITH 6-MIL PLASTIC SHEETING OR TARP AT THE END OF EACH WORK DAY.
3. STOCKPILES MUST BE 50-FT FROM SLOPE, ROADWAY, STREAMS, WETLANDS, AND DRAINAGE FACILITIES.

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BALLY'S CASINO AT FERRY POINT PARK
BRONX NEW YORK

Figure Title
TYPCAL STOCKPILE DETAIL

Project No.	170773001
Date	01/07/2025
Scale	NTS
Drawn By	KG
Submission Date	
Figure No.	11

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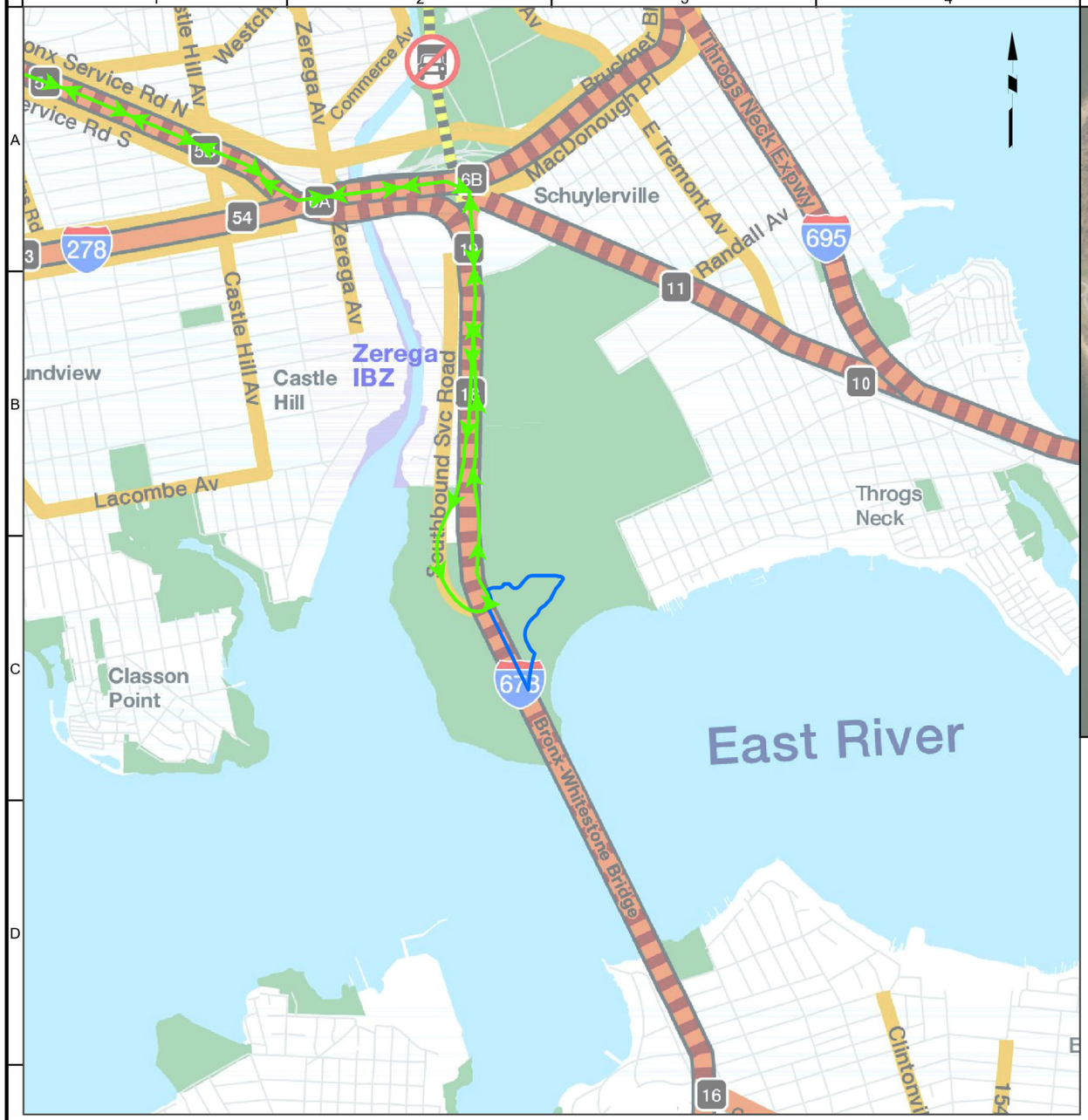

Legend

Local Truck Route
Trucks with an origin or destination for the purpose of delivery, loading or servicing within the respective Borough, shall only operate on designated local routes, except that an operator may operate on a non-designated street for the purpose of arriving at his/her destination. This shall be accomplished by leaving a designated truck route at the intersection that is nearest to their destination, proceeding by the most direct route, and then returning to the nearest designated truck route by the most direct route. If the operator has additional destinations in the same general area, he/she may proceed by the most direct route to his/her next destination without returning to a designated truck route, provided that the operator's next destination does not require that he/she cross a designated truck route.

Through Truck Route
Trucks having neither an origin nor a destination within the respective Borough shall restrict the operation of such vehicles to those street segments designated as Through Truck Routes.

Through Truck Route on Expressway

Through Truck Route on Tunnel

Exception 53' Trailers Allowed
For definition see information on reverse side.

Industrial Business Zones (IBZ)

Parks and Open Spaces

29A Highway Exit

Commercial Vehicles Prohibited

Low Vertical Clearance Area

Legend

Approximate Site Boundary

Proposed Truck Route

NOTES:
1. BASEMAP TAKEN FROM THE 2015 NEW YORK CITY DEPARTMENT OF TRANSPORTATION "NEW YORK CITY TRUCK ROUTE MAP."
2. SITE ENTRANCE LOCATION MAY CHANGE BASED ON CONSTRUCTION LOGISTICS.
3. WORLD AERIAL IMAGERY BASEMAP IS PROVIDED THROUGH LANGAN'S ESRI ARCGIS SOFTWARE LICENSING AND ARCGIS ONLINE.

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Project
BALLY'S CASINO AT FERRY POINT PARK
BRONX NEW YORK

Figure Title
TRUCK ROUTE MAP

Project No. 170773001	Figure No. 12
Date 8/2/2024	
Scale As Shown	
Drawn By MG	

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Path: \\langan.com\data\NYC\data0\170773001\Project Data\ArcGIS\APRX\170773001\170773001.aprx Date: 8/2/2024 User: mgeorgalas Time: 9:57 AM

NOTES
1. THIS SKETCH IS FOR REFERENCE PURPOSES ONLY. AREAS HAVE BEEN BASED ON SATELLITE IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE.

LEGEND

- APPROXIMATE LOCATION OF SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS)
- V-22 G — APPROXIMATE LOCATION OF LANDFILL GAS (LFG) PASSIVE VENT WELL
- 7 — APPROXIMATE LOCATION OF SETTLEMENT PLATE
- GMW — APPROXIMATE LOCATION OF GROUND WATER MONITORING WELL
- APRROXIMATE LOCATION OF LFG COLLECTION PIPE (UNKNOWN IF STILL IN-PLACE)
- G — APPROXIMATE LOCATION OF LANDFILL GAS (LFG) PASSIVE VENT WELL (UNKNOWN IF STILL IN-PLACE)
- APPROXIMATE BUILDING FOOTPRINT
- POTENTIAL RELOCATION OF INFRASTRUCTURE

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Project
BALLY'S CASINO AT FERRY POINT PARK
BRONX NEW YORK

Figure Title
PROPOSED REPLACEMENT ENVIRONMENTAL MONITORING INFRASTRUCTURE LOCATION PLAN

Project No. 170773001
Date 8/19/2024
Drawn By KG
Checked By LE

Figure No. 13

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Legend

- Approximate Site Boundary
- Detail 1 - Typical Building Foundation Slab Cover System
- Detail 2 - Typical Clean Soil Cover System
- Detail 3 - Typical Concrete Pavement Cover System

Notes:
1. Aerial imagery provided through Langan's subscription to Near Map, dated 06/16/2024.
2. Approximate site boundary taken from drawing titled "Sketch" for Bally's New York Ferry Point by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, dated 11/30/2023.
3. Proposed building and site information shown hereon is from files electronically received from HKS on 12/21/2023.

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Project
BALLY'S CASINO AT FERRY POINT PARK
BRONX NEW YORK

Figure Title
CONCEPTUAL COMPOSITE COVER SYSTEM LAYOUT

Project No. 170773001	Figure No. **14A**
Date 1/13/2025	
Scale 1"=250'	
Drawn By MG	

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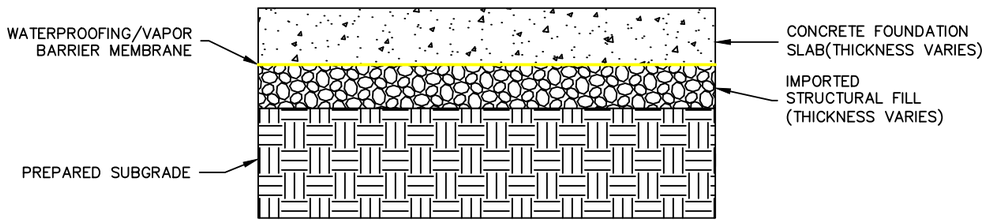

DETAIL 1: TYPICAL BUILDING FOUNDATION SLAB COVER SYSTEM DETAIL
(NOT TO SCALE)

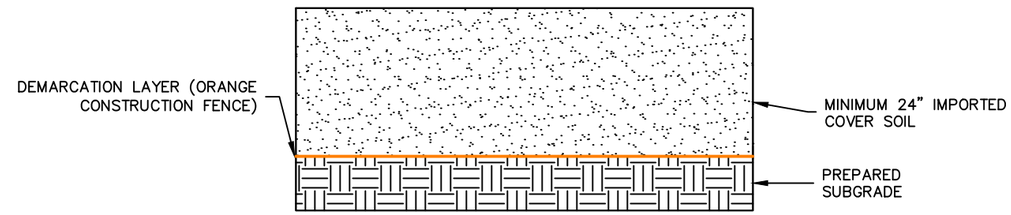

DETAIL 2: TYPICAL CLEAN SOIL COVER SYSTEM DETAIL
(NOT TO SCALE)

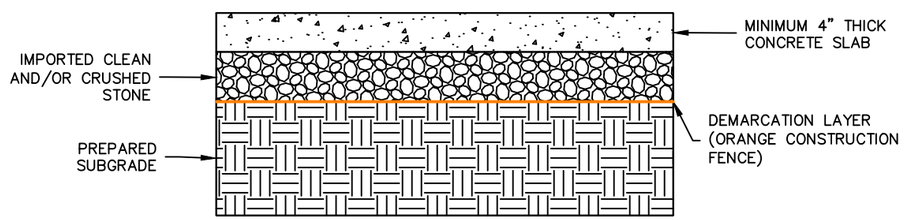

DETAIL 3: TYPICAL CONCRETE PAVEMENT COVER SYSTEM DETAIL
(NOT TO SCALE)

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Project
PROPOSED BALLY'S CASINO AT FERRY POINT PARK
BLOCK No. 5622, LOT No. 1
BRONX NEW YORK

Figure Title
TYPICAL COMPOSITE COVER SYSTEM DETAILS

Project No. 170773001
Date 11/25/2024
Drawn By KG
Checked By BG

Drawing No.
14B

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APPENDIX A
Previous Environmental Reports

Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East Bronx, New York

May 31, 2012
Revised: August 31, 2012
October 15, 2013

Prepared for:

New York City Department of Parks & Recreation
The Arsenal
830 Fifth Avenue
New York, NY 10065-7001

Prepared by:

ECOLOGY AND ENVIRONMENT ENGINEERING, P.C.
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List of Abbreviations

AES	American Environmental Solutions, Inc.
AGC	Annual Guideline Concentrations
AKRF	Allee, King, Rosen & Fleming, Inc.
bgs	below ground surface
CAA	Clean Air Act
C&D	construction and demolition
CEQR	City Environmental Quality Review
CY	Cubic Yard
DPR	(New York City) Department of Parks and Recreation
DSNY	New York City Department of Sanitation
EEEPC	Ecology and Environment Engineering, P.C.
EPA	(United States) Environmental Protection Agency
FPPCCCP	Ferry Point (Park East) Post-Construction Custodial Care Plan
FPP	Ferry Point Partners, LLC
GHG	greenhouse gas
HAP	hazardous air pollutant
IEM	Independent Environmental Monitor
LEL	lower explosive limit
LFG	landfill gas
LFGMP	Landfill Gas Management Plan
m^3/Mg	cubic meters per megagram
Mg/yr	megagrams per year
M&M	monitoring and maintenance
MSW	municipal solid waste
NMOC	non-methane organic compound
NTU	nephelometric turbidty unit
NYCRR	New York Codes, Rules, and Regulations

List of Abbreviations and Acronyms (cont.)

NYCDEP	New York City Department of Environmental Protection
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OM&M	operations, maintenance and monitoring
PDM	processed dredge material
ppm	parts per million
psi	pounds per square inch
ROI	radius of influence
SAPA	State Administrative Procedures Act
SEQRA	State Environmental Quality Review Act
SF	square foot
SGC	short-term guideline concentration
SOW	scope of work
SSDS	sub-slab depressurization system
TAGM	Technical and Administrative Guidance Memorandum
TRC	TRC Engineers
ULURP	Uniform Land Use Review Procedure
VOC	volatile organic compound
Walsh	Walsh Environmental Scientists and Engineers, LLC

1 Purpose and Scope

1.1 Document Overview

New York City Department of Parks and Recreation (DPR) is submitting this Supplemental Engineering Report ("the Report") in support of its updated application package for the Ferry Point Park East 6NYCRR Part 360 Solid Waste Management Permit ("the 2005 Permit"), No. 2-6006-00014/00013.

This Report presents the studies, modeling, investigations, and design work that were performed to resolve outstanding comments that have been received by DPR since the April 8, 2009, Notice of Incomplete Application and the November 25, 2009, permit application submittal to the New York State Department of Environmental Conservation (NYSDEC).

This Report and the supporting documentation provide sufficient data and analysis to demonstrate how outstanding comments and requests have been addressed and complete the permit application.

1.2 Document Organization

This report is organized as follows:

- Section 2 – Presents the history and scope of the project, and past permitting benchmark dates,
- Section 3 – Provides construction status and a permit compliance summary,
- Section 4 – Discusses each previously unresolved NYSDEC issue,
- Appendices – Provide supporting documentation for the additional studies, modeling, and investigations for the Site that were completed at the request of NYSDEC.

2 Introduction

2.1 Project History

Ferry Point Park East in the Bronx (the "Site") is a former landfill that is bounded by the Bronx-Whitestone Bridge and Hutchinson River Parkway to the west, Balcom, Miles, and Emerson Avenues to the east, Schley Avenue and St. Raymond's Cemetery to the north, and the East River to the south.

In the late 1990s, the New York City Department of Parks & Recreation (DPR) entered into a license agreement with Ferry Point Partners, LLC (FPP) to develop, construct, and operate a new public recreation facility (the "Project") at the Site. The new facility would include a golf course, a Community Park, a waterfront park, and related facilities. At that time all required reviews for the Project were completed under the City Environmental Quality Review (CEQR), State Environmental Quality Review Act (SEQRA), and the City's Uniform Land Use Review Procedure (ULURP).

On July 17, 2000, NYSDEC issued a Part 360 Solid Waste Management Permit (No. 2-6006-00014-000110) (the "2000 Permit") jointly to FPP and DPR (collectively, the "Historic Permittee") for a non-specific "facility" under Part 360-1.9(b) at the Site. The 2000 Permit allowed the Historic Permittee to import and place a total of 1,000,000 cubic yards (CY) of fill necessary to construct the golf course on the Site. In February 2002 and November 2005, the Part 360 Permit was modified to allow additional fill volume and changes in design features. On November 18, 2005, NYSDEC issued the modified Part 360 Solid Waste Management Permit (No. 2-6006-00014/00013) to place a total of 2,543,729 CY of in-place fill on the Site. This action was followed by a December 27, 2005, revision (No. 2-6006-00014/00013) that amended the total in-place fill volume to 2,370,000 CY (the "2005 Permit").

In 2007, DPR terminated the license agreement with FPP and took over Site development responsibilities, including redevelopment of the Community Park and construction of the waterfront park and golf course portions of the Site.

2.2 Project Scope

Consistent with the 2005 Permit, the project scope includes the construction of three major elements (a golf course, Community Park, and waterfront park) over the 222-acre Site (see Figure 2-1) as follows:

- An 18-hole golf course with practice facility, driving range, clubhouse, maintenance facility, irrigation lake, stormwater retention ponds, and a parking lot (192.5 acres);
- A passive recreation waterfront park with walkways and a comfort station (19.5 acres); and
- A Community Park with baseball fields, basketball court, walkways, comfort station, and landscaped stormwater retention area (10 acres).

2.3 Permitting Benchmarks

The following bullets chronicle significant permit-related correspondence and actions since the 2005 Permit was issued:

- **July 25, 2008:** A permit renewal application package to the 2005 Permit was submitted by DPR. This submittal requested a modification of the 2005 Permit to allow the use of dredge and processed dredge material (PDM) as fill and the barge delivery of such fill material to the Site.
- **October 24, 2008:** NYSDEC issued a Notice of Incomplete Application and comments to the July 25, 2008 submittal.
- **December 2, 2008:** NYSDEC issued a letter to advise DPR that the 2005 Part 360 Permit (with the corresponding November 30, 2008, expiration date) remains in full force and effect until NYSDEC approves the permit renewal application, as per Section 401(2) of the State Administrative Procedure Act (SAPA). See Appendix A for a copy of the SAPA letter.
- **December 26, 2008:** A response to NYSDEC's comments of October 24, 2008 was submitted by DPR with a supplemental permit application package to the 2005 Permit.
- **April 8, 2009:** NYSDEC issued comments to the December 26, 2008, permit application submittal.
- **April 9, 2009:** DPR withdrew its request for a permit modification to allow the use of PDM as fill.
- **November 25, 2009:** A response to NYSDEC's comments of April 8, 2009, was submitted by DPR with a second supplemental permit application package to the 2005 Permit. This submittal withdrew the request to allow the use of dredge material and PDM as fill and the barge delivery of such fill material

to the Site. This submittal also proposed a design modification for a Site-wide active landfill gas control system. The 2005 Permit included passive venting systems for the Site, with active systems proposed only in enclosed structures.

- **June 25, 2010:** NYSDEC issued a Notice of Incomplete Application and comments on the November 25, 2009, permit application submittal.

- **August 6, 2010:** NYSDEC issued additional comments on the November 25, 2009, permit application submittal.

- **September 29, 2010:** A response to NYSDEC's comments of June 25 and August 6, 2010, was submitted by DPR with a third supplemental permit application package for the 2005 Permit. This submittal withdrew the proposed design modification of a Site-wide active landfill gas control system and proposed a system consistent with the 2005 Permit.

- **October 7, 2010:** A supplemental response to NYSDEC's comments of June 25 and August 6, 2010, was submitted by DPR to accompany the September 29, 2010, permit renewal application submittal.

SOURCE: Ecology and Environment, Inc. 2012

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Figure 2-1 Ferry Point Park Site Layout

3 Project Status

3.1 Construction Status

Construction activities are proceeding with the following scheduled milestones.

Community Park

- **As of December 31, 2011:** Stormwater retention pond, passive landfill gas (LFG) vents, and recreation facilities were complete.
- **December 31, 2014:** Comfort station completion is anticipated.

Golf Course

- **As of May 17, 2012:** Construction of the golf course is 73% complete.
- **December 31, 2014:** Golf course completion is anticipated, and opens with a temporary clubhouse.
- **December 31, 2017:** Completion of the permanent clubhouse is anticipated.

Waterfront Park

- **November 30, 2012:** Final design completion is anticipated.
- **December 31, 2015:** Construction completion is anticipated.

3.2 Permit Compliance Monitoring and Reporting since November 18, 2005

In accordance with the 2005 Permit and as required under Special Condition 25, an Independent Environmental Monitor (IEM) has been retained by the Permittee (DPR) to provide environmental oversight of all activities authorized by the permit. The 2005 Permit states that the IEM may be an individual or engineering firm, and must be or provide a New York State-licensed professional engineer. The firm of Woodard & Curran is currently performing the IEM responsibilities for the project.

The IEM monitoring is conducted daily and reported to NYSDEC on a bi-weekly basis. These reports are available at the DPR Bronx Borough Headquarters (Ranaqua) document repository and are part of the public record. The address of the repository is 1 Bronx River Parkway, Bronx, NY 10462; telephone: (718) 430-1800. As these reports continue to be issued, DPR responds to and resolves issues as they develop. An email received from NYSDEC on Thursday, May 24, 2012 (see Appendix B), verified that there is "*no outstanding enforcement action*" for the Site.

4 Supplemental Engineering Work

4.1 Fill Volumes

DPR is conforming to the fill volume conditions of the 2005 Permit. Under Special Condition No. 9, a total of 2,370,000 CY of in-place fill is allowed to be imported to the Site by truck: 2,120,000 CY of shaping fill material is being imported and placed on-site for the base layer, and approximately, 250,000 CY of cover fill material is being imported to be placed on top of the base layer. The imported fill materials are being used to attain the final design grades and contours of the golf course.

In accordance with Special Condition No. 10 of the 2005 Permit, imported fill brought to the Site is tracked according to "in-truck" volumes and reported by the Site's IEM to NYSDEC. A compaction factor is used to calculate the difference between the volume of in-truck fill and the volume of compacted in-place fill that achieves the design grades and contours of the Site. A compaction factor of 41.7% is being used in the IEM reports to calculate the in-place fill volume.

As of April 20, 2012, the IEM reported that a total of 1,525,436 CY of in-place fill volume has been reported at the Site since October 18, 2002. This volume includes 1,450,858 CY of in-place shaping material and 74,578 CY of in-place cover material.

During 2010, fill material from one particular source was brought on-site and placed in seven different stockpiles. The material was believed to be in conformance with permit conditions. However, it was found that the material did not meet the requirements of 2005 Permit Special Conditions 1, 9, and 16, during NYSDEC and IEM inspections. On January 10, 2011, DPR signed an Administrative Order on Consent (Consent Order), Case No. R2-20100521-172, related to this fill material. In accordance with the Consent Order, NYSDEC and DPR "*agreed … the material specified in this Order as shaping material on this Site, provided that it is covered by asphalt*." The IEM reported that 64,230 CY of in-truck volume was designated as shaping material under this Order. This fill material was covered by asphalt in 2012.

4.2 Fill Material Chemical Criteria

In light of evolving soil criteria and standards for public use, NYSDEC has provided comments and other clarifications to DPR with respect to the chemical parameters for each soil layer. DPR has complied with the 2005 Permit require-

ments and the additional clarifications provided by NYSDEC, which has been verified by the IEM.

This section reviews DPR's compliance with the 2005 Permit conditions and NYSDEC clarifications. In addition, it provides responses to NYSDEC comments related to imported fill material.

4.2.1 Fill Material Characterization

As required under the 2005 Permit, all fill material imported to the Site is analyzed for the chemical contaminants identified in Special Conditions 15(a) through 15(d). The additional criteria set forth in NYSDEC correspondence since the 2005 Permit, described below must also be met. Only those soils that satisfy the requirements of these criteria are allowed to be used on the Site.

4.2.1.1 Shaping Layer Chemical Criteria

Fill material imported to the Site and used for the shaping layer is analyzed for the following parameters, per Special Condition 15(c) of the 2005 Permit:

"The shaping layer must meet the following chemical limits:

i. *Total carcinogenic SVOC levels must be less than 3ppm if any one of the carcinogenic SVOCs exceed Technical and Administrative Guidance Memorandum (TAGM) 4046. The following are the list of carcinogenic SVOCs that are subject to this 3ppm limit: Benzo(a)pyrene, Dibenzo(a,h) anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Indeno(1,2,3-cd)pyrene, Benzo(k)fluoranthene, and Chrysene.*
ii. *Total SVOCs must be less than 500ppm*
iii. *Metals*
    - *Arsenic less than 28ppm;*
    - *Barium less than 2,000ppm;*
    - *Cadmium less than 20ppm;*
    - *Chromium less than 1,000ppm;*
    - *Copper less than 1,000ppm;*
    - *Lead less than 400ppm;*
    - *Mercury less than 0.57ppm;*
    - *Selenium less than 11ppm;*
    - *Silver less than 100ppm*
iv. *Asbestos for all layers must be 0.5% or less*
v. *Total sulfur for all layers must be 0.5% or less*
vi. *Total PCBs less than 10ppm*
vii. *Total Pesticides less than 10ppm*
viii. *VOCs (all individual analytes less than TAGM 4046)"*

In a letter dated October 25, 2006 (see Appendix C.1), NYSDEC provided a clarification of Special Condition 15(c)(i) adding that a carcinogenic SVOC limit of 10 ppm or lower is allowable from individual fill material sources, provided that a weighted average of equal or less than 3 ppm is achieved by the end of the permit.

A formula for the weighted average was included in the correspondence for use by the IEM.

4.2.1.2 Cover Layer Chemical Criteria

Fill material imported to the Site and used for the cover layer is subject to the following requirements, per Special Condition 15(b) of the 2005 Permit:

"In order for topsoil material to be used on Site for the cover layer, it must be sampled prior to acceptance and after the importation of each additional 2,000 cubic yards (in truck volumes). Each soil sample is to be analyzed for the entire analyte list in the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046, total volatile organic compounds (VOCs), total semi-volatile organic compounds (SVOCs), pesticides and herbicides, polychlorinated biphenyls (PCBs), and metals (including Resource Conservation and Recovery Act (RCRA) metals)."

As required by the 2005 Permit, the cover layer must meet the following chemical limits:

- TAGM 4046 Table 1 – Volatile Organic Compounds (VOCs)
- TAGM 4046 Table 2 – Semi-Volatile Organic Compounds (SVOCs)
- TAGM 4046 Table 3 – Pesticides/Herbicides and Polychlorinated Biphenyls (PCBs)
- TAGM 4046 Table 4 – Metals
- Total Asbestos 0.5% or less
- Total Sulfur 0.5% or less

The following additional criteria were directed in NYSDEC correspondence since the 2005 Permit. DPR has been following NYSDEC's directives since receipt of each one.

- **April 30, 2009** – Directs DPR not to accept or place on the Site any cover layer materials with arsenic concentrations greater than 16 ppm or lead concentrations greater than 400 ppm.
- **July 28, 2009** – Provides a table to DPR listing modified heavy metal chemical limits for the cover layer at the Site.
- **September 25, 2009** - Revises and clarifies the chromium chemical limits for the cover layer previously presented in the July 28, 2009, letter.

A complete list of the 2005 Permit criteria is provided along with the additional criteria correspondence in Appendix C.2.

4.2.1.3 Demarcation Layer Requirements

Special Condition 15(d) of the 2005 Permit requires the following:

"The final placement (including top soil), location, thickness, and detailed chemical limits of the final cover layers on the Site, including the community park and waterfront park, are subject to the specifications, directions and requirements determined by the NYS Department of Health (NYSDOH) to be applicable. It is the responsibility of the Permittees to obtain a written determination from NYSDOH. The Permittees must provide the Department with a copy of NYSDOH's determination. No cover layer material may be placed on the Site, until the Department acknowledges receipt of NYSDOH's determination."

As required by Special Condition 15(d), DPR obtained such written determination from NYSDOH in a letter dated, August 2, 2006 (see Appendix C.3).

In accordance with this communication, two different recreational classifications, active and passive, were proposed by DPR for incorporation into the overall design compliance objectives for the Site. This letter also included that a *"demarcation barrier be used to divide the final cover fill from the existing landfill capping material."* The demarcation barrier (layer) at Ferry Point Park East provides a visual warning that will be easily recognizable during future excavation work beneath the cover layer. (Refer to Section 4.2.1.4 for further discussion of the demarcation layer.)

In a letter dated July 9, 2009 (see Appendix C.3), DPR requested a further review of the heavy metal chemical criteria for the cover layer at Ferry Point Park East. A response received from NYSDEC on July 28, 2009, provided additional clarification regarding what are considered active and passive recreational areas. As per this letter:

Active Recreation – *"…all other areas that are not covered with a building or other impermeable cover system… are deemed active recreational areas."*

In compliance with this active recreational determination, DPR installed 2 feet of cover material and a demarcation layer throughout the Community Park.

Passive Recreation – *"…the golf course is deemed a "passive recreational area" and is required to have a one foot thick cover layer over a demarcation layer."*

Following this directive, DPR requested clarification from NYSDEC regarding the demarcation layer requirement for the extent of the golf course. The request for clarification was based on the need for further specificity regarding the use of a demarcation layer on the golf course.

In response, NYSDEC and NYSDOH reviewed a summary of the analytical data for all the shaping material imported to the Site to date. Upon review of the data set, confirmatory analytical sampling of the in-place shaping material was requested by NYSDEC and NYSDOH. DPR conducted test-pit sampling and analysis under an approved work plan and submitted the data to NYSDEC on February 16, 2011.

In their letter dated March 9, 2011, NYSDEC stated that "*NYSDOH reviewed the shaping layer test pit data and determined that it confirmed existing shaping layer data.*" NYSDEC and NYSDOH agreed that a demarcation layer would not be required at areas of the golf course having a fill thickness of 5 or more feet of combined shaping and cover layer materials. Communications related to this determination are provided in Appendix C.3.

4.2.1.4 Demarcation Layer Plan

At the Ferry Point East Site, "demarcation layer" means a brightly colored, permeable plastic material placed beneath the Site's final cover layer that is easily recognizable during an excavation. The request was made for the protection of Site workers during any future excavation work beneath the cover layer.

The demarcation layer plan was based on a comparison of final design grades and the top of waste elevations extrapolated from soil boring data. Appendix C.4 provides the Demarcation Layer Plan for the Site. Field verification that demarcation requirements are being met is performed continuously and routinely reported by the IEM to confirm permit compliance.

4.2.2 Dioxin and Furan Analytical Methods

In a letter dated May 26, 2011 (see Appendix C.5), DPR requested confirmation that the use of United States Environmental Protection Agency (EPA) Analytical Method 625/8270 is an acceptable alternative method for the analysis of dioxin and furan constituents. On April 12, 2011, NYSDEC provided verbal confirmation to DPR that this method may be used. Accordingly, EPA Analytical Method 625/8270 is now being used where appropriate for the analysis of dioxin and furan constituents on sources of incoming fill material.

4.3 Final Cover Material Physical Characteristics

In accordance with the 2005 Permit, and as written in the June 30, 2005, Engineering Report (TRC 2005), *"The upper portion of the cover layer will consist of topsoil and/or sand capping material in accordance with the Nicklaus Design Technical Specifications (see 2005 Fill Report) to support the growth of the golf course turf and the grassed areas of the adjacent parks*."

Special Condition 16 states that "*the major components (greens, contours, heights, and topsoil) shall meet the Nicklaus Design Technical Specification, as noted in … the 2005 Engineering Report.*

The golf course construction specifications are consistent with these regulatory requirements.

4.3.1 Site-wide Water Balance Model

In their August 6, 2010, letter of additional comments to the November 25, 2009, permit application submittal, NYSDEC requested DPR *"demonstrate that the soil to be used at the site as final cover material — not necessarily as the uppermost planting material — will have a sufficiently low coefficient of permeability and percentage of organic material to minimize the infiltration of water into the lower layers of material to the greatest extent practicable."*

In response to this request, DPR performed a site-wide water balance to predict post-construction infiltration rates. The EPA's Hydrologic Evaluation of Landfill Performance (HELP) computer model was used for this purpose.

As requested by NYSDEC, DPR used a modeling scenario that compared a typical one-foot thick soil landfill cover with the proposed Site cover material as designed.

Model results were presented to NYSDEC in a May 13, 2011, Memorandum (see Appendix D.1). The water balance accounted for impermeable areas of the Site, irrigation of the golf course, drainage system stormwater capture, and the lining of on-site ponds (for a specific discussion of Site ponds, see Section 4.3.1.2). Using a cover soil permeability of 14 inches per hour, the model results indicated that post-construction conditions would result in a reduction in the infiltration rate over the entire Site by approximately 9,700 gallons per day. This estimate effectively showed there will be a lower volume of water infiltrating through the surface of the Site following completion of construction.

A subsequent water balance memorandum was submitted by DPR to NYSDEC on August 10, 2011 (see Appendix D.2). These water balance results indicated that a higher cover soil permeability of 30 inches per hour would also result in a lower volume of water infiltrating through the surface of the Site following completion of construction. Prior to approving this subsequent request to use a cover soil permeability of 30 inches per hour, NYSDEC asked that DPR review and verify the adequacy of the Site's drainage capacity. The purpose of this review was to determine whether the Site's drainage system as designed would be adequate if lined ponds and a cover soil permeability of 30 inches per hour were incorporated into the Site design. A description of the pond liners and drainage capacity review are provided in Sections 4.3.1.2 and 4.3.1.3.

Based on the model results and the drainage capacity review discussed in Section 4.3.1.3, NYSDEC approved a maximum permeability of 30 inches per hour for cover material used at the Site. As cover material is imported to the Site, it is sampled and tested to confirm it meets the water balance (permeability) requirements approved by NYSDEC. The results of the permeability testing are provided in bi-weekly IEM reports.

In a letter dated January 26, 2012 (see Appendix D.3), NYSDEC clarified that the average percolation rate from all samples collected within one cover material stockpile can be used as the representative percolation rate of that stockpile. The average percolation rate *"is justified because the loading, unloading, transporting, stockpiling, and spreading of the cover material will provide a homogenous mixture of the sand"* (material) from the stockpile. *"…the sand will be tested every 2,000 CY per the permit requirements moving forward."*

4.3.1.1 Pond Liner Designs

A single irrigation pond has already been constructed at the Site. The purpose of this pond is to collect and store stormwater runoff and reuse it later for irrigation and maintenance of the golf course vegetative cover. This pond is fully lined to maximize the retention of irrigation water. The irrigation pond design documents were included in the November 25, 2009, permit application package.

In addition, there are five smaller water quality ponds designed to provide active stormwater retention and limit the off-site migration of sediment. The geometry and grading (engineering design) of these ponds were also provided in the November 25, 2009, permit application package.

DPR considered various methods to meet NYSDEC's request of August 6, 2010, to minimize the infiltration of water through *"the lower layers of material to the maximum extent possible."* Based on this consideration, DPR is implementing a recommendation contained in the November 16, 2010, memorandum (see Appendix D.1) to line the five on-site water quality ponds to limit water exfiltration.

Supplemental drawings and specifications for the lining of these ponds are provided in Appendix D.4. The pond liner designs are consistent with the previously approved geometry and grading (engineering design) presented in the November 25, 2009, permit application package.

4.3.1.2 Drainage Capacity Review

Following submittal of the Site-wide water balance and the decision to line the water quality ponds, a review of the Site's existing Stormwater Pollution Prevention Plan (SWPPP) (TRC 2009c) was performed by DPR.

NYSDEC requested this review to determine whether additional flow into the Site's drainage system (as a result of lining the water quality ponds and the higher permeability cover soil) would exceed the storm drainage system capacity.

The review indicated that additional flow to the drainage system would not exceed the previously permitted design discharge rates in the SWPPP. The review also concluded that the system's drainage capacity is adequate. The technical memorandum summarizing the drainage review was submitted to NYSDEC on October 18, 2011 (see Appendix D.5). In an October 21, 2011, email response (see Appendix D.5), NYSDEC indicated that they *"…conditionally approve cover*

material at the FPP [Ferry Point Park] golf course having permeability up to 30 inches per hour."

The conditional approval was based on a request for DPR to *"submit for approval an amendment to the Stormwater Pollution Prevention Plan (SWPPP) dated November 13, 2009, with plans and computations that reflect the partial lining of the stormwater basins."* DPR provided this in a technical memorandum to NYSDEC dated November 16, 2011 (see Appendix D.6, pond liner design in Appendix D.4). The memorandum presented a formal submittal of the pond liner design to NYSDEC and included excerpts of calculations from the November 13, 2009, SWPPP. This memorandum showed that the original calculations in the 2009 SWPPP remain adequate since they included conditions for lined ponds. An email approval of "*DPR's SWPPP Amendment"* was given by NYSDEC on December 2, 2011 (see Appendix D.6).

4.4 Landfill Gas Management

The Site's Landfill Gas (LFG) Management system is designed to prevent harmful effects on workers or recreational users of the Site. Therefore, and as requested by NYSDEC in their August 6, 2010, comments, landfill gas data gathered for the Site in 2009 and 2010 were used to model surface methane emissions, LFG generation rates, and the emissions of hazardous air pollutants (HAPs) across the Site. The data were also used to conduct a health impact analysis for users of the Site. Supporting documents on LFG evaluations and design are included in Appendices E and F of this report.

4.4.1 LFG Emission Generation Rates, Hazardous Air Pollutant Concentrations, and Health Impacts Analysis

LFG generation rates for the Site were first estimated in 1999 (AKRF 1999) using the EPA's 1995 "Compilation of Air Pollutant Emission Factors." The generation rates were estimated using a newer mathematical model in 2010, EPA's LandGEM model Version 3.02 (see Appendix E.1). The 2010 LandGEM model results predicted LFG generation rates similar to those of the 1999 modeling. The 1999 and 2010 analyses both indicate that LFG emissions and generation rates are consistent with a municipal solid waste landfill of the age of the Ferry Point Site.

The 2010 analyses also predicted the emissions of HAPs and other air pollutants from the Ferry Point Site. The results predicted that pollutant concentrations in the breathing zones are well below the applicable annual guideline concentrations (AGCs) and short-term guideline concentrations (SGCs). This indicates that there are no expected health impacts on users of the golf course due to these emissions.

The results of these efforts are presented in the Ferry Point Landfill Gas Report (EEEPC 2010, Appendix E.1). A supplemental letter of December 17, 2010, presented in Appendix E.2, provided follow-up responses to NYSDEC comments on the Landfill Gas Report.

In response to an additional comment from NYSDEC received on August 6, 2010, DPR performed emissions monitoring at 12 passive vertical vents installed at Community Park. This monitoring was performed in June 2011.

The monitoring results were used to calculate the emission rates of LFG constituents from the passive vents. Hourly and annual emission rates were predicted. In a July 1, 2011, email, the NYSDEC review of these results concluded that *"there is no ambient air impacts due to the emissions from the twelve vents at the Community Park… which poses no health impact to the public using the park."* Therefore, DPR concludes that no further monitoring is necessary beyond routine maintenance of the 12 passive vents.

Appendix E.3 contains the sampling and analysis report for vent monitoring at Community Park, and the July 1, 2011, email from NYSDEC.

4.4.2 LFG Management System

4.4.2.1 Sitewide Passive Venting System

The LFG management system as redesigned for the Site (since the November 25, 2009, permit application submittal) is an update of prior conceptual passive LFG designs and includes a passive system for the venting of LFG in all areas not covered by enclosed facilities. The primary goals for the design of the Site's LFG management system are to provide safe operating conditions and protect human health.

The proposed passive system is consistent with the plans presented in the 1999 EAS (AKRF 1999), the 2002 Technical Environmental Assessment (AKRF 2002), and the 2005 Engineering Reports (TRC 2005a, b) and was approved under the 2005 Part 360 Permit. It deviates from the 2009 permit renewal application prepared by TRC Engineers (TRC), which recommended an active system. An active system uses blowers or fans to extract gas through vents from the landfills subsurface, whereas a passive system uses vents without blowers or fans. Supplemental Site investigations and extraction testing performed by TRC Engineers at the Site in 2009 and 2010 were reviewed by Walsh Environmental Scientists and Engineers, LLC (Walsh) in 2010. Emissions modeling was also performed by EEEPC in 2010, as discussed in Section 4.4.1.

Based on these evaluations and modeling of Site conditions, a Landfill Gas Management Plan (LFGMP) was prepared (see Appendix F.1). The plan concluded that a passive venting system is sufficient to achieve safe operating conditions for users and workers of the golf course and parks. A description and details of the Site's LFG management system are presented in the LFGMP. The LFG management system as currently designed is consistent with the proposed venting system described in the 2005 Permit.

4.4.2.2 LFG Management of Irrigation Lake and Water Quality Ponds

As described in Section 4.3.1.2, the design of the golf course includes one lake to be used for the collection and storage of rain water for irrigation, and five smaller

water quality ponds to provide active stormwater retention and limit the off-site migration of sediment. Design of the irrigation lake and water quality ponds includes the installation of impermeable liners to prevent exfiltration. The liner component impedes surface venting of LFG from the underlying soils.

The lined irrigation lake has been constructed in the northwestern area of the golf course. A gas transmission layer was constructed underneath the liner and is connected to perforated piping around the perimeter of the lake as shown on Contract Drawings H2.1, H2.2, and H2.13, which were submitted with the November 25, 2009, permit application. This perforated pipe will be used for the passive venting of LFG from beneath the liner of the irrigation lake.

Passive venting has been included in the design of all water quality ponds at the Site. Passive venting of the ponds includes a permeable gravel layer and perforated collection piping from areas underneath the ponds and exiting the top of vent stack above the breathing zone. Engineering drawings and technical specifications for the water quality pond liners and passive venting design are provided in Appendix D.5.

4.4.2.3 LFG Management for Enclosed Structures

Due to its potentially explosive nature, LFG shall not be allowed to accumulate within any enclosed structure at the Site. To protect the occupants, an underslab vent system for each enclosed building shall be installed and continuously operated.

The LFGMP (see Appendix F.1) describes the active sub-slab depressurization systems (SSDS) that have been designed for the underslab of each enclosed building at the Site. These systems will have continuous explosive gas monitoring with local and remote alarm capabilities. The SSDS engineering drawings for the golf course facilities (maintenance building and comfort station) are provided in Appendix F.3. The Community Park comfort station design was provided in the November 25, 2009, permit application. The Waterfront Park comfort station has not been designed.

Maintenance of the SSDS and their monitoring equipment will be performed in accordance with the operations, monitoring, and maintenance (OM&M) program for the Site's Landfill Gas management system (see Section 4.4.4).

The design of any additional structures at the Site will be completed in accordance with New York City Department of Buildings requirements. The need for LFG mitigation systems for any future Site structures will be evaluated as part of their design.

4.4.2.4 LFG Venting for Subsurface Utilities

Low-permeability soil/bentonite collars ("soil collars") will be installed for all utility trenches that contain permeable bedding in order to prevent the migration of LFG into enclosed buildings at the Site. The soil collars will be installed

around the water and sewer pipelines, within the trenches at the subsurface location where the pipeline crosses above the building foundation (the building line). Each soil collar will be passively vented as described in the LFGMP (see Appendix F.1) and as shown on the engineering design drawings in Appendix F.2.

Similarly, conduit seals will be used for electrical conduits that are installed in trenches using permeable bedding materials. The conduit seals will be installed at the building lines.

Other utility LFG controls include the underslab passive venting for the aboveground double-check valve (DCV) enclosure. The DCV enclosure is for the potable water supply line as it enters the golf course site. Detailed design drawings for the venting the DCV enclosures are provided in Appendix F.4.

The need for LFG venting for any future Site subsurface vaults will be evaluated as part of their design.

4.4.3 Landfill Gas Management Operations, Monitoring & Maintenance Program

The NYCRR Part 360 "Solid Waste Management Facilities" regulations, Section 2.17(f) concerning LFG, were used as guidance in developing the Site's LFG monitoring program. In accordance with this section: (1) the concentration of explosive gases must not exceed 25% of the lower explosive limit (LEL) in on-site and off-site structures; and (2) the concentration of explosive gases must not exceed the LEL at the property boundary.

Because of the planned future uses of the site as a golf course, banquet facility, and public park, the LFG monitoring plan provides a comprehensive program for future monitoring and maintenance at the Site, with specific contingency actions. Continuous LFG monitoring with local and remote alarm capabilities will occur in all enclosed Site buildings for the protection of occupants.

The LFG monitoring and maintenance (M&M) supervisor will be assigned responsibility for overseeing all Site LFG M&M activities, and will serve as the primary point of contact for DPR. The LFG M&M supervisor will be a DPR employee with the responsibility and authority to direct all OM&M work activities and maintain the necessary monitoring personnel for the required M&M activities.

OM&M for the Site's LFG management system will take place on an ongoing, routine schedule, with additional inspections to address maintenance concerns and potential alarm call-outs and to provide contingency monitoring and actions as needed. The OM&M plan for the Site is presented in Section 6 of the LFGMP (see Appendix F.1). This plan has also been incorporated by reference into the Post-Construction Custodial Plan (see Appendix I) for the Site.

4.5 Groundwater Characterization

Municipal solid waste (MSW) filling operations ceased at the Site in the 1960s, prior to the implementation of the comprehensive environmental regulations now in place, and a formal groundwater sampling program was not required at that time. Information on groundwater quality at a former landfill site such as Ferry Point Park East can be used to help evaluate existing groundwater conditions.

For the 2005 Permit application, the Site's history was reviewed and a geotechnical investigation was performed to evaluate the potential for adverse impacts on the Site's groundwater due to the placement of fill during construction of the golf course and parks.

A summary provided in the 2005 Engineering Report concluded *"that the placement of fill would not have an adverse impact on pre-development groundwater conditions at the site and that the proposed golf course construction would not result in an increased flow of contamination into the river through groundwater flow."* (TRC 2005a).

In their comments of June 25, 2010, NYSDEC asked DPR whether any new information was available regarding groundwater conditions at the Site, and if any new, relevant information was available, to verify the conclusions of the geotechnical portion of the 2005 Engineering Report (TRC 2005a).

Following several discussions with DPR, and because no prior sampling had been required, NYSDEC requested that DPR undertake a groundwater sampling program and develop a reference point for background water quality conditions at the Site.

To comply with this request, DPR prepared written field procedures for new well installations, well development, and groundwater sampling (see Appendix G.1). The field procedures were submitted to, and approved by, NYSDEC prior to the start of the work effort. Prior to installation, the locations of the monitoring wells were approved by NYSDEC during a meeting held with DPR on September 22, 2011.

In February 2012, eleven new groundwater monitoring wells were installed across the Site to obtain information on current groundwater conditions. Design documents for the groundwater monitoring wells are included in Appendix G.2. An initial sampling event was completed in February 2012 and included the testing activities described below.

- **Groundwater Elevation Measurements:** Water depths were measured at the 11 groundwater monitoring wells. Two measurements were taken from each well within one hour each of high and low tides, starting at the shoreline and moving inland.

- **Elutriate Testing:** One soil core sample per well was collected during well installation in order to perform elutriate analysis. Samples were selected from shaping material zones based on visual observation of the soil cores.

- **Groundwater Testing:** Groundwater samples were collected at each of the 11 wells and shipped for laboratory analysis.

- **Hydraulic Conductivity Testing:** In situ slug testing for hydraulic conductivity was completed at each of the 11 groundwater monitoring wells.

The initial groundwater monitoring data from February 2012 was submitted to NYSEC by email on March 28, 2012. This data is included in the report for the initial groundwater monitoring event (see Appendix G.5). At that time, DPR requested direction from NYSDEC concerning procedures for future sampling events. That is, should future sample collection be modified due to the high turbidity (>1,000 nephelometric turbidity units [NTUs]) observed in the initial samples.

A call was held with NYSDEC on May 8, 2012, to discuss the initial data and provide guidance on future monitoring (see Appendix G.3 for call minutes. Also during this call, NYSDEC directed DPR to perform inorganic analyses on both filtered and unfiltered samples collected during the next sampling event. If the next round of results is found to be in expected ranges, then future sampling events will utilize only filtered samples for inorganic analyses.

NYSDEC provided DPR with requirements for future groundwater monitoring in their FPP Groundwater Characterization/Monitoring Objective, on May 8, 2012 (see Appendix G.4). DPR will implement the groundwater monitoring program in accordance with the schedule and monitoring parameters requested by NYSDEC.

The schedule includes two additional quarterly sampling events, followed by approximately three semi-annual events (through completion of construction) and three post-construction annual sampling events. After the third annual sampling event, DPR may request to reduce the sampling frequency or cease the groundwater sampling program at the Site. Table 4-1 provides a schedule of the monitoring events that will be performed to complete this program and the parameters that will be analyzed for during each event.

Post-construction groundwater monitoring and groundwater monitoring well maintenance requirements are incorporated into the Post-Construction Custodial Care Plan for the Site (see Appendix I).

Table 4-1 Groundwater Monitoring Program Schedule

Sampling Frequency	Approximate Dates of Sampling Events	Parameters
Quarterly	May 2012	6 NYCRR Subpart Part 360-2.11 Baseline Parameters; analysis for inorganic parameters on both filtered and unfiltered samples.
Quarterly	August 2012	6 NYCRR Subpart Part 360-2.11 Baseline Parameters; analysis for inorganic parameters on filtered samples only.
Bi-Annually (2x/year)	March 2013 September 2013 March 2014	6 NYCRR Subpart Part 360-2.11 Baseline Parameters; analysis for inorganic parameters on filtered samples only.
Annually	September 2014[1] September 2015 September 2016	6 NYCRR Subpart Part 360-2.11 Routine Parameters; analysis for inorganic parameters on filtered samples only.

Notes:
1. It is currently anticipated that golf course operations will begin in the fall of 2014, and that this event will be become the first of the three required annual sampling events.

4.6 Settlement Monitoring

4.6.1 Impacts on Short- and Long-Term Settlement Monitoring

Special Conditions 7 and 8 of the 2005 Permit set forth settlement monitoring requirements related to the placement of fill material across the Site. Monitoring must also conform to the recommendations provided in the Settlement Evaluation and Long-Term Monitoring Plan prepared by Langan Engineering and Environmental Services, Inc. (Langan 2005).

Short-Term Settlement Monitoring

The short-term settlement monitoring program began in December 2002 with the bi-weekly monitoring of seven test fills and six settlement plates located throughout the Site. Test fills consist of an engineered soil fill ranging from 10 to18 feet deep, generally located on-site in areas where significant thicknesses of fill are required. Settlement plates consist of a subsurface plate beneath a casing and a flush-mount monitoring access port, similar to a monitoring well. Settlement plates that are part of the short-term settlement monitoring program were generally located in areas of the site already at or close to final grade.

In their report, Langan recommended the following adjustments be made to the monitoring program during construction:

- Test fills that obstruct construction activities should be replaced with a settlement plate to be monitored near the location of the test fill.
- Settlement plates that need to be moved for construction purposes should be relocated to the same general area and monitored until long-term monitoring points have been installed.

Short-term settlement monitoring continues to be performed bi-weekly at the Site. Monitoring at several points has now been discontinued due to interference with ongoing construction. In an email correspondence dated May 1, 2012 (see Appendix H), NYSDEC informed DPR that these short-term monitoring locations do not need to be replaced as long as construction at the Site progresses.

As construction is concluded in each area of the Site, long-term monitoring plates will be installed as described below.

Long-Term Settlement Monitoring

The revised Settlement Plate Locations Plan and a sketch that shows the additional monitoring point between golf course holes 6 and 7 (Appendix H) were approved by NYSDEC in an email dated May 1, 2012. The long-term settlement monitoring points will be installed as construction is concluded in each area. Upon installation, the long-term settlement plates will be monitored in accordance with the criteria set forth in Special Condition 8 of the 2005 Permit.

4.7 Post-Construction Custodial Care Plan

The Ferry Point Park East Post-Construction Custodial Care Plan (FPCCCP) has been prepared to meet the relevant requirements of NYDEC Part 360 Permit No 2-6006-00014/00013-0 (hereafter referred to as the "Permit") and all other applicable conditions as agreed upon between NYSDEC and DPR. This document provides for the post-construction custodial care requirements as they relate to the systems and components installed as part of Site-wide development specific to Ferry Point Park East. The Post-Construction Custodial Care Plan is provided in Appendix I.

As specified in Special Condition 39 of the 2005 Part 360 Permit, as built drawings and a written post-construction certification report for NYSDEC review and approval and certification by the IEM shall be prepared within 60 days of completion of the filling operation on the Site and construction of the earthwork portion of the Project. Therefore, no as-built drawings or post-construction certification report has been provided in this FPCCCP.

The scope of the FPCCCP is to provide the current monitoring and maintenance plans and descriptions for the components and systems within Ferry Point Park East as they will exist following the conclusion of construction at the Site. For each component or system, a brief overview is included within the scope of this document. In addition, an emergency personnel contact list is provided in the Site's Health and Safety Plan, which is referenced in the Post-Construction Custodial Care Plan.

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FERRY POINT PARK EAST
POST CONSTRUCTION
CUSTODIAL CARE PLAN

October 2013

Prepared by:
New York City Department of Parks and Recreation

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1 Introduction and Purpose

The Ferry Point Park East Post Construction Custodial Care Plan (FPCCCP) has been prepared to comply with the requirements of the New York State Department of Conservation (DEC) 6NYCRR Part 360 Permit No 2-6006-00014/00013-0 (see attached) (hereafter referred to as the "2013 Permit") and applicable regulations and conditions as previously discussed and agreed upon between DEC and the New York City Department of Parks and Recreation (DPR). See the attached Figure 1-1 of Ferry Point Park. The purpose of this document is to define the post construction criteria applicable to the operation, monitoring and maintenance of the environmental protection systems installed as part of site wide development of Ferry Point Park East. DPR agrees to a 5-year rolling schedule whereby, at the end of a five year term, DPR may demonstrate that the routine operation and maintenance for the end use of the site, i.e., the golf course, meets the performance criteria established in the 2013 Permit, and petition to modify or terminate the FPCCCP. The general procedures for the termination of monitoring activities or abandonment of infrastructure are detailed further in the FPCCCP.

As built drawings and a written post-construction certification report for NYSDEC review and approval and certification by the IEM will be prepared within 60 days of completion of the filling operation on the Site and construction of the Earthwork portion of the Project. Therefore the as-built drawings and post construction certification report have not been provided in this FPCCCP.

As construction activities are on-going, relevant changes and additions associated with final construction will be incorporated into an amended Sub-Surface Operations Plan. As part of this addendum, DPR will also submit the relevant post construction Storm Water Pollution Prevention maintenance documentation as per the SPDES (State Pollution Discharge Elimination System) General Permit for Stormwater Discharges from Construction Activity. These amendments to the FPCCCP will be submitted to DEC within 90 days of the approval of the post construction certification report by DEC.

Post construction monitoring and maintenance of the Golf Course, Community Park and Waterfront Park will be the responsibility of DPR. At this time DPR has entered into a contract with a golf course concessionaire, Trump Ferry Point LLC, to implement post-construction care necessary to maintain the golf course for operational purposes. Golf course maintenance and operations exclude those requirements specific to post construction monitoring and maintenance of existing

environmental conditions and infrastructure as installed by DPR and specifically defined in this plan as being Landfill Gas systems, Groundwater monitoring and Long Term Settlement Plates. DPR's Maintenance & Operations division or an appointed representative will also implement the operational and maintenance post construction requirements associated with the Community and Waterfront Parks.

1.1 Document Organization

This FPCCCP provides descriptions – either within the document or by reference – of systems, facility management, maintenance operations, environmental monitoring and the construction schedule.

This FPCCCP is organized into three sections summarized below:

The first section provides the document overview, organization, scope and applicable permitting basis.

The second section provides the post closure operational details for the relevant site-wide compliance systems and components. This includes site background, information regarding the specific systems and components related to the specific closure parameters and relevant regulatory processes necessary to facilitate the FPCCCP.

The third section addresses various closure and post closure issues including end use, construction schedules, and the post construction custodial care plan.

1.2 Scope of Document

As part of the overall permit submittal, the FPCCCP provides an overview of the systems within Ferry Point Park East as they will exist following the conclusion of construction at the site. In order to avoid duplication, design drawings and details, discussed within the FPCCCP that are referenced and included within the overall permit submittal are noted as such within the document. These drawings, bound separately under the permit application and referenced herein, have been compiled from various source documents.

The respective drawings serve as a basis for management of the site during the post-construction period. However, as per the 2013 Permit, these drawings do not represent actual as-built conditions. In addition, the terms used within the FPCCCP are consistent with the list of preferred terms contained in the overall permit application.

Path: M:\New_York_City\FerryPoint\Maps\MXD\1-1 Project Area Map.mxd

N

SCALE

0 750 1,500 Feet

Legend

Project Site Boundary

Figure 1-1

Ferry Point Park

Project Area Map

Bronx, New York

SOURCE: ESRI 2012; Ecology and Environment, Inc. 2013; Ferry Point 2013.

1.3 Compliance Basis

As described in Section 2, Ferry Point Park East has an anticipated short operating life, as it has been designed and operated not for the purpose of disposal, but as a golf course and public park. Therefore, the scope of the FPCCCP is not congruous with facilities that have been operating as solid waste facilities.

The FPCCCP is prepared in accordance with the applicable regulatory requirements as they specifically relate to the Permit. The FPCCCP has been developed in conformance with applicable regulatory requirements of Article 27, Title 7, 6NYCRR Part 360 pertaining to construction and demolition material transfer operations as they relate to the infrastructure developed at Ferry Point Park East.

During 2010, fill material from one particular source was brought on-site and placed in seven different stockpiles. The material was believed to be in conformance with permit conditions. However, the material was found to be in violation of 2005 Permit Special Conditions 1, 9, and 16, during NYSDEC and IEM inspections. On January 10, 2011, DPR signed an Administrative Order on Consent (Consent Order), Case No. R2-20100521-172, related to this fill material.

Specific requirements within the Consent Order as they pertain to post construction operations are as follows:

Consent Order No R2-20100521-172 (Appendix I.1)
" *Attachment "A" Proposed Handling of Ferry Point Park Soil Stockpile, Item 6, Once the asphalt top course is installed, the asphalt surfaces of the clubhouse and maintenance facility parking lots will be inspected during April and October every year by a licensed professional engineer ("engineer") who is registered to practice in New York State. Within thirty days (30) days of such inspections, the engineer will submit to the Department a stamped and certified written detail report, including photo documentation, regarding the condition of the asphalt surfaces and their adequacy, including photo documentation, regarding the condition of the asphalt surfaces and their adequacy to effectively function as covers. A description of any needed repairs will be included in the engineer's report.*

Item 7, Any repairs deemed necessary by the engineer must be completed by New York City Department of Parks and Recreation ("NYC Parks") within fifteen (15) days of the notification by the Department to NYCDPR to begin such repairs. A certification, including supporting written and photo documentation must be submitted by NYC Parks within fifteen (15) days after completion of repairs."

2 Overview of Site Wide Systems and Components

Ferry Point Park East is bound by the Bronx-Whitestone Bridge to the west, Balcom, Miles, and Emerson Avenues to the east, Schley Avenue and St. Raymond's Cemetery to the north, and the East River to the south.

The Site, which comprises the eastern portion of Ferry Point Park, historically was largely unused and undeveloped. The project site is a former landfill that accepted municipal solid waste from before 1951 to the 1960's, and was closed and covered in the mid-1960's, with additional closure operations conducted in the late 1980's. The project site contained an organic recycling and composting facility (operated by DPR) that was located in the northwestern portion of the project site, informal dirt bike paths, an informal model airplane area in the western portion of the project site, and a ballfield and basketball court located on the northeastern portion of the project site.

The proposed Project includes three major elements (Waterfront Park, Community Park, and comprehensive golf facility) that together constitute a new regional park. The site map is attached as Figure 2-1 of the October 2013 Supplemental Engineering Report (pg 2-5).

Numerous systems have been constructed and installed at Ferry Point Park East that will continue to serve operational and environmental functions during the site closure and post closure period. Each of these systems has specific components, activities and controls. The purpose of this section is to describe the primary function intended to be served by each system and the components that comprise the system as they relate to closure and post closure activities.

Each of the relevant systems listed below have a specific compliance aspect which includes the following:

- **Final Cover and Drainage System (as applicable)**
- **Landfill Gas Control System**
- **Long Term Settlement Monitoring System**
- **Groundwater Characterization System**

2.1 Final Cover System

The overall function of the final cover system is to provide a clean barrier of one foot of uncontaminated soil (cover material) over a minimum of one foot of shaping material in designated passive recreation areas and a minimum of two feet of cover material over shaping material in designated active recreation areas. In areas where an impermeable cover system (e.g. asphalt) is in place no cover material or demarcation layer is present. The final cover system is dependent on the park design typology and use defined further below. Final cover design and construction for Ferry Point Park East are composed of the following common components in accordance with the 2013 Permit.

1. The Topmost Layer consists primarily of vegetated cover material throughout the park may also consist of impermeable asphalt or gravel materials, concrete or paver systems. Within the context of this FPCCCP, the topmost cover system is defined as that system which is used to stabilize the Barrier Protection Material (BPM).

2. The BPM layer or cover material consists of clean soil meeting permit requirements for cover material at a depth of one foot for passive recreation areas and two feet for active recreation areas.

3. The Surface Water Drainage System, where applicable, is constructed to protect the final cover system from the peak discharge based on a rainfall intensity of a 24-hour, 25 year storm event.

4. The Demarcation Layer, where applicable, is placed to provide a physical visual separation between the BPM which is underlain by select exempt Construction and Demolition (C&D) fill material and existing landfill and cover material. This item provides a visual warning against unintended penetration into the underlying C&D material layer. The Demarcation layer will be Guardian Safety Fence, as manufactured by Tenax ® Corporation, Baltimore, Maryland, or the 3T Product T820A as manufactured by 3T Products, LLC, Dalmatia, Pennsylvania, or approved equal.

Infiltration into the BPM is minimized by means of final grading. Infiltration that does enter the BPM is either released back into the air through evapo-transpiration or collected and diverted through the drainage layer (if used) and discharged to a system of catch basins or detention ponds located throughout the site.

As defined in the 2013 Permit documentation, minimum and maximum slopes combined with drainage elements are used to prevent ponding and ensure slope stability.

The BPM is placed in a manner that produces a well graded mass. The material is and will be constructed in a horizontal layer of twelve (12”) inches or (24”) in depth extending across the entire area of fill. The material is and will be placed

and distributed so that there will be no pockets of uniform size solid material. Hollows and depressions which develop during the process of rolling and compacting are filled with acceptable material and the subgrade is compacted again. This process of filling and compacting is repeated until no depressions develop. After compacting, the area must be in a uniformly compacted, smooth, dense, true, firm, satisfactory, and evenly finished condition, free of compaction planes, irregularities, voids, ridges, or loose material.

2.1.1 Final Cover Systems by Park Typology

2.1.1.1 Community Park

The Community Park is classified as an active recreational facility and therefore requires a minimum of twenty four (24) inches of BPM per the New York State Department of Health (NYSDOH) determination regarding Ferry Point Park on August 2, 2006 and a further determination by NYSDEC staff on July 28, 2009.

Excerpt from NYSDOH August 2, 2006 determination:
"Additionally, areas that are considered "Active Recreation" pursuant to New York State Brownfield Cleanup Program Technical Support Document, Section 3.0, will contain a minimum of twenty four-(24) inches of cover material that meets or exceeds NYSDEC TAGM 4046 guidelines for soil. In addition to cover material, a demarcation barrier will be used to divide the final cover fill from the existing landfill capping material."

Excerpt from July 28, 2009 NYSDEC Correspondence:
"…All other areas, that are not covered with a building or other acceptable impermeable cover system, including the …"Community Park" area are deemed active recreational areas that must be covered with at least two feet of soil over a demarcation layer."

Community Park Final Cover System

1. Topmost Layer: Vegetated cover material or impermeable cover system.
2. BPM layer or cover material: 24" of topsoil meeting permit requirements for cover material at a depth of two feet in areas not covered with a building or impermeable material.
3. Demarcation Layer: The Demarcation layer utilized is a Guardian Safety Fence, as manufactured by Tenax ® Corporation, Baltimore, Maryland, or the 3T Product T820A as manufactured by 3T Products, LLC, Dalmatia, Pennsylvania, or approved equal.

2.1.1.2 Waterfront Park

1. Topmost Layer: Vegetated cover material or impermeable cover system. This topmost cover system throughout the park is primarily vegetative but may also consist of asphalt or gravel materials, concrete or paver systems.
2. BPM layer or cover material: consists of clean soil meeting permit requirements for cover material at a depth of one foot for passive areas and two feet for active areas.
3. Demarcation Layer: where applicable as determined by NYSDOH, the Demarcation layer will be Guardian Safety Fence, as manufactured by Tenax ® Corporation, Baltimore, Maryland, or the 3T Product T820A as manufactured by 3T Products, LLC, Dalmatia, Pennsylvania, or approved equal.

2.1.1.3 Golf Course

The Golf Course is classified as a passive recreational facility and therefore requires a minimum of twelve (12) inches of BPM per the New York State Department of Health (NYSDOH) determination regarding Ferry Point Park on August 2, 2006 and a further clarification by NYSDEC staff on July 28, 2009.

Excerpt from NYSDEC July 28, 2009 correspondence:
"For the purpose of the permit, only the golf course is deemed a "passive recreational area" and is required to have a one foot thick cover layer over a demarcation layer."

NYSDEC directed that the placement of the demarcation layer, per a March 9, 2011 correspondence, is required for the golf course in areas containing less than 5 feet of combined cover and shaping material thickness.

Excerpt from a NYSDEC March 9, 2011 correspondence specific to the installation of a demarcation layer on the Golf Course:
"The Department and NYSDOH informed NYCDPR that a demarcation barrier would not be required at areas of the golf course having five feet or more of shaping and cover layer."

Areas exempted from demarcation, structures, paved areas, and lakes are lined with an impermeable barrier. The preliminary Demarcation Layer Plan is shown on Figure 3 located in Section C.4 of the October 2013 Supplemental Engineering Report Drawing number S-H22.

The surface water drainage components are integrated into the final cover and function to control stormwater flow into the shaping layer material. Maintenance and inspection procedures for the surface water drainage system are provided in Section 3.3.2.2 Final Cover System Inspections and Maintenance. Additional maintenance and inspection criteria regarding these systems will be amended to the FPCCCP pursuant to the relevant post construction Storm Water Pollution

Prevention maintenance documentation as per the SPDES General Permit for Stormwater Discharges from Construction Activity.

The surface water drainage system includes a "tile drainage system" installed underneath the fairways, tees, greens and inner roughs that connects to the overall drainage system. The capacity of the drainage pipes was reviewed to make sure there is sufficient capacity for additional flow.

The surface water drainage system consists of the following that connect to catch-basins and manholes adjacent to the tile drainage system:

"Golf course surface drainage pipe will be A.D.S. N12-or Approved Equivalent. Typically the golf course Grading Plans show the locations of the catch basins throughout the golf course. In these locations, there should be a 12 to 18-inch A.D.S. N12-or Approved Equivalent perforated riser, extending above grade 2 to 3-feet. Washed pea-gravel 1/4 to 3/8-inch in size, is mounded up around the base of the pipe, so that it functions throughout the construction process. Upon establishment of finish grade, the pipe is cut off flush with the grade. Soil is then removed 12-inches around and 12-inches deep and backfilled with clean, washed 1/4 to 3/8-inch pea-gravel. A cast iron or approved plastic grate is then inserted into the pipe and attached according to the manufacturer's specifications.

All golf course drainage pipe will have a 1.628 millimeter-14 gauge direct bury copper locator wire placed on top of the pipe prior to backfilling the pipe. This includes all sizes of perforated and solid pipe."

1. Topmost Layer: Vegetated cover material or impermeable cover system. This topmost cover system throughout the park is primarily vegetative but may also consist of asphalt or gravel materials, concrete or paver systems.
2. BPM layer or cover material: consists of one foot of permit requirements for cover material at a depth of one foot for passive areas and two feet for active areas.
3. Surface Water Drainage System: where applicable, constructed to protect the final cover system from the peak discharge based on a rainfall intensity of a 24-hour, 25 year storm event.
4. Demarcation Layer: where applicable, the demarcation layer is placed to provide a physical visual separation between the BPM which is underlain by select exempt Construction and Demolition (C&D) fill material and existing landfill and cover material. This item provides a visual warning against unintended penetration into the underlying C&D material layer. The Demarcation layer will be Guardian Safety Fence, as manufactured by Tenax ® Corporation, Baltimore, Maryland, or the 3T Product T820A as manufactured by 3T Products, LLC, Dalmatia, Pennsylvania, or approved equal.

2.2 Landfill Gas Control

The generation of landfill gas (LFG) is a natural process resulting from the decomposition of organic material in municipal solid waste. LFG is comprised mainly of methane and carbon dioxide, along with traces of other gases.

LFG at the Ferry Point Park East site is present within the waste layer of the landfill. The waste at the Site consists of widely varying amounts of MSW and construction debris intermixed with soil. LFG is currently being generated at a very low rate, approximately 1 cfm/acre or less which correlated well with the modeling conducted in 1999 by DPR's consultant TRC Engineers (AP-42 modeling). Very little to no LFG was measured at the landfill surface during the flux box testing (Ferry Point Landfill Gas Report EEEPC 2011, Appendix F.1 Supplemental Engineering Report).

LFG that is generated accumulates in more pervious portions of the waste layer and/or migrates laterally to the east and northeast and is vented out the perimeter vent trenches. As shown on the graphs depicted on design drawings (S-H6.01 and S-H6.02 contained Ferry Point Landfill Gas Report EEEPC 2011, Appendix F.1 Supplemental Engineering Report).

The remaining Landfill gas at Ferry Point Park East is managed to control emissions of LFG and to prevent off site migration through a passive vent trench. Post construction care operations and maintenance of the landfill gas emissions management systems are detailed in Section 3.3 of the Post Construction Custodial Care Plan.

2.2.1 Passive Venting System

Passive venting systems have been and are being installed to vent LFG. The following are the design components of the passive control of LFG at the Ferry Point Park East site as further detailed in Appendix F.1 LFG Management Plan:

- Wet and dry utility pipe bedding corridors: contain low permeability soil plugs and gas vents at periodic intervals and terminations into structures. These include as applicable and approved by NYSDEC:
  1. Passive surface vents located adjacent to the plugs on the up gradient side to allow venting of built up gas;
  2. Plugs and passive vents prior to every potentially occupied structure at a suitable interval;
  3. Air vents on vault and manhole covers; and
  4. Explosion proof conduit seals and electrical connection.
- Vertical passive gas vent wells are located within the rough and other non-playing areas of the golf course. The vent locations were based on the following criteria:

1. Areas of significant waste thickness;
2. Areas of significant cover soil thickness;
3. Areas of historic high LFG concentrations; and areas in apparent lateral migration pathways.
4. A passive vent trench is located at the eastern perimeter of the Community Park. Vertical passive gas vents are additionally located within the passive LFG vent trench that has been installed at Community Park.

2.2.2 Landfill Gas Migration System

Ferry Point Park East utilizes a passive perimeter LFG interceptor venting system or LFG vent trench as an engineered control against the migration of LFG off site. The vent trench is installed along the edge of the East River near the foot of Emerson Avenue, along the length of the Balcolm Avenue Site boundary, along Schley Avenue, and continues approximately 1,050 feet west past the intersection of Schley and Buttrick Avenues as shown in Figure 5 (located in Appendix F.1 of the October 2013 Supplemental Engineering Report).

A review of the historic field data associated with the perimeter LFG vent trench monitoring program from 2001 to present was conducted to evaluate LFG trends at the Site relative to the perimeter passive LFG control.

The following key findings were noted:

1. After the installation of the vent trench in 2001, methane levels in the vicinity of the LFG vent trench tended to decrease significantly within a year in most monitoring wells;
2. Methane levels remained relatively low and below regulatory limits for the next three years (2002 thru 2004), except for a few wells that sporadically exceeded the regulatory limit;
3. In 2005, the measured methane levels tended to increase, likely due to the installation of more reliable monitoring points (new monitoring points and repaired wells); and,
4. Results from 2008-2011 generally indicate relatively consistent levels of methane, with certain limited sporadic increases above regulatory limits.

The vent trench is extended below the seasonal low groundwater table to form a barrier to off-site migration of LFG generated within the site and to allow the LFG to vent passively. Where underground utilities may act as conduits for the LFG migration, utility seals and low permeability soil collars are used to cut off the LFG from migrating along the utility corridors.

To remain consistent with the design intent of the LFG vent trench, monitoring of the groundwater is done by utilizing installed piezometers in accordance with the 2013 Permit.

To evaluate the effectiveness of the engineered controls monitoring at the vent trench has been ongoing since it became operational in 2002 at a frequency of bi-weekly monitoring with a contingency of weekly monitoring if the lower explosive limit is greater than 25%.

To meet the requirements of the 2013 Permit, a monitoring program and contingency procedures have been developed and are referenced (to the Landfill Gas Management Plan Appendix F.1 of the October 2013 Supplemental Engineering Report) in Section 3.3 of this report.

2.2.3 Interior Active Collection Systems

The intent of the interior active collection systems is to control LFG emissions such that safe levels are maintained in all potential occupied interior spaces. This is achieved by including active removal systems beneath all enclosed buildings within the site.

The interior active collection system is comprised of a sub slab depressurization system (SSD) designed to protect LFG from migrating into confined spaces and monitor those spaces. The interior LFG venting system is designed to prevent the accumulation of gas at greater than 25% of the lower explosive limit in structures on site. The system is designed to achieve lower sub slab air pressure relative to indoor air pressure by use of a fan powered vent drawing air from beneath the slab. The system prevents the migration of LFG into the interior of on-site buildings. Further, the system is designed to achieve depressurization during winter conditions when ventilation is limited.

To meet the requirements of the 2013 Permit, a monitoring program and contingency procedures have been developed and are referenced (to the Landfill Gas Management Plan Appendix F.1 of the October 2013 Supplemental Engineering Report) in Section 6.3.4.1 of the LFG Management Plan.

2.3 Long Term Settlement

In accordance with Special Condition #9 of the 2005 Permit, a settlement monitoring program was developed and a report issued. The report made recommendations with respect to the impact of potential long-term settlements of C&D fill and cover material on the construction and operation of the Ferry Point Golf Course (Settlement Evaluation and Long-Term Monitoring Plan Ferry Point Golf Course January 2005 Appendix I.2).

Settlement monitoring began on site in December 2002 and consisted of the construction of 7 instrumented test fills and installation of 6 settlement plates

throughout the site. The test fills ranged in height between 10ft and 18ft and were located in areas where significant thicknesses of fill were required, in areas where thick compressible layers existed and in future green areas. Additional, short and long term settlement monitoring has been on-going on the site since the original monitoring program began.

Further evaluation was completed in the Settlement Evaluation and Long-Term Monitoring Plan regarding Slope Stability; this evaluation indicated that the factors of safety exceeded the minimum acceptable factor of safety for a circular global slope failure, and thus that the steepest slopes of the proposed grades for the project are stable and will not require any reinforcement for construction or maintenance purposes.

As part of the report, a Long Term Settlement Monitoring plan was developed to be implemented after the final grading of the golf course and during the golf course operation. The Settlement Plate Location Plan (Figure 2) is located in Section H.1 of the October 2013 Supplemental Engineering Report.

The plan consists of the construction of nine (9) settlement monitoring plates to be placed throughout the golf course. As per the Long Term Settlement Monitoring plan, final locations of the monitoring plates were coordinated with the golf course architect and approved by NYSDEC staff. The locations were chosen to be adjacent to the water and sewer mains and/or adjacent to green areas, where differential settlements are potentially critical. The settlement points are located in variable subsurface conditions, but generally in the highest fill areas and thickest compressible layers.

The settlement plates will be placed as close to the defined area as possible without interrupting play or compromising the viability of the plate. The settlement monitoring points will be installed to within 1 foot of the final grade. The work consists of installing settlement plates consisting of a base plate, steel riser pipe sections, and any additional hardware and couplers which may be required that is consistent with the 2005 Settlement and Long Term Monitoring Plan.

The work consists of installing settlement plates consisting of a base plate, steel riser pipe sections, and any additional hardware and couplers which may be required that is consistent with the 2005 Settlement and Long Term Monitoring Plan.

1. Initial Installation: The base plate will be installed at least 12 inches (150 mm) below natural ground, firmly seated on a level surface.
2. Adding Extensions: Riser pipe extensions and couplers will be added, as necessary, in 5 foot increments as construction of the embankment progresses. The Contractor will install extensions in a plumb line.

The monitoring requirements associated with the long term settlement plates are discussed in Section 3.3.

2.4 Groundwater Monitoring

Characterization of the on-site groundwater was not initially contemplated as part of the 2005 permit by DEC. As per a 2011 DEC directive, DPR installed 11 groundwater monitoring wells on site in February of 2012, reference Figure 4 located in Appendix G.2 of the October 2013 Supplemental Engineering Report.

The purpose of the well installation was to obtain baseline chemical data on groundwater constituents at the Ferry Point site. Basic site hydrogeological information was also characterized during this effort, including direction of flow, groundwater elevation gradients, and flow velocity.

At the time of installation, construction activities were 80% complete. The baseline characterization is expected to capture conditions representing 80% of the potential measurable impacts to groundwater. Future monitoring is expected to capture less than 20% of the potential post-construction impacts.

Groundwater characterization monitoring has been performed for an initial three quarterly rounds of sampling and the data has been compared to data from landfills of similar age and type. DPR will continue to conduct annual groundwater sampling after the golf course is operational.

Trend analysis was used to develop an understanding of the effectiveness of an implemented remedy in addressing the exposures presented at the site and to begin to identify any trend(s) with regard to the achievement of remedial objectives (DER-10 6.2.2.c.6). However, the current redevelopment project is not intended as a 'remedy' for the site, and there are no remedial action objectives for groundwater at Ferry Point Park East. Therefore activities usually associated with monitoring for the effectiveness or performance of a remedy, such as trend analysis, are not appropriate for Ferry Point Park East.

Exposure to groundwater upon completion of the project will be managed by engineering controls (DER-10 6.1 Site Management).

Engineering controls to limit exposure to groundwater/leachate include:

- The placement of fill material ranging from 1 to 12 feet in depth above the original soil cover placed following termination of landfill activities in the 1960s.
- A demarcation layer to be placed in areas of the site where the combined cover and shaping material is less than 5 feet thick.

3 Post Construction Custodial Care Operations

This section addresses the compliance items as necessary to provide for the proper post construction custodial care for the site. The specific components of this section consist of a description of the sites' end use, the construction schedule, the environmental monitoring requirements, post construction custodial care operations and maintenance plan, consent order maintenance and the implementation of the site wide health and safety plan and emergency contact information.

3.1 End Use

DPR agrees that any proposed change of end use that significantly alters the intended recreational character or that impacts the integrity or operation of the environmental control and monitoring systems will require DEC approval. The End use of the site during the term of the FPCCCP will be in accordance with the 2013 Permit.

The end use for Ferry Point Park East will be a public passive and active recreational facility owned by DPR. There are three distinct areas or "Parks" within the project site.

- Community Park: Approximately 10 acres of active and passive recreation are replaces and expands an existing recreational facility. The project includes a walking path, detention area, ballfields, basketball courts, tot-lot, comfort station and seating areas.
- Golf Course: Approximately 180 acres, contains an 18-hole tournament quality golf course, driving range and practice areas for chipping and putting, a clubhouse, maintenance building, comfort station and rain shelter.
- The Waterfront Park: Approximately 19.5 acres of passive park land, the Waterfront Park design includes a small parking lot and comfort station, a beach and picnic area, salt marsh, and grassed and landscaped features with a continuous path that crosses the park.

3.2 Construction Schedule

The various components of the three distinct Parks have been and are being installed in various stages. Construction completion for each of the Parks is defined as placement of the final cover system, specifically the vegetated cover material or impermeable cover material. Final stabilization of the golf course, parks and ancillary facilities will be in accordance with the approved design specifications and the final plans of the Waterfront and Community Parks as approved by DPR.

Attached as Appendix I.3 is the construction schedule for the Golf Course project, upon completion of filling operations for the shaping layer, the Contractor will commence the rough shaping, placement of cover material and installation of drainage, irrigation and other utilities as per the construction schedule and construction sequence, for the purposes of this FPCCCP referred to as the Closure Construction Schedule.

The Community Park is substantially complete except for the proposed Comfort Station at Community Park which is contemplated for final completion in fall 2013.

The Waterfront Park, currently in design, is anticipated to begin construction in fall 2013, once a construction schedule is completed for this project it will be submitted to NYSDEC as an addendum to the FPCCCP.

Upon completion of the fill delivery and construction of the earthwork portion of the project, DPR agrees that its engineer will prepare the post construction certification report and the IEM will certify that the fill operation was performed in accordance with the 2013 Permit. Any deviations from the permit will be noted. This report will include approved "as-built" drawings demonstrating that the earthwork and filling operation were accomplished in accordance with the Department approved plans and the permit.

3.3 Post Construction Custodial Care Plan

The Post Closure Care Monitoring and Maintenance Operations Plan provides a description of overall management of the Site during the post construction period and sets the performance standards and requirements under which the actual monitoring, maintenance and reporting practices are to be carried out. Contingency procedures are discussed within the specific document as applicable.

This Plan consists of these components:

1. Environmental Monitoring Requirements
2. Health and Safety Plan Emergency Contact
3. Post Construction Custodial Care Inspections and Maintenance

Unless otherwise noted, compliance actions governed by the FCCCP will commence within 60 days of the NYSDEC's approval of the construction certification report. The compliance documentation, in the form of either or both:

1. Monitoring Data and Summary Report
2. Inspection Report

Compliance reports will be submitted within 30 days of the initial monitoring or inspection. Concurrent reports will be submitted within 30 days of the submittal of the initial report unless otherwise noted.

3.3.1 Environmental Monitoring Requirements

Environmental monitoring, maintenance and reporting will be performed at Ferry Point Park East during the post-construction period. The plans are specific to groundwater characterization, landfill gas monitoring and long term settlement monitoring. Record keeping and reporting requirements and contingency action levels and procedures are also addressed.

Maintenance of the systems associated with Ferry Point Park East monitoring will be performed:

1. Based on the result of inspections performed during monitoring events; or
2. If an issue is identified during general site wide operations; or
3. Specifically determined by contingencies for applicable systems.

Maintenance, monitoring, and reporting for activities associated with the LFG systems, long term settlement plates, final cover system and groundwater monitoring infrastructure will be performed by a DPR approved representative.

As necessary, changes may be made to the FPCCCP to reflect monitoring results and address relevant site conditions. Modifications to the environmental monitoring program will be implemented in compliance with the FPCCCP or by written request to the NYSDEC. Revisions to the FPCCCP monitoring program may be made through issuance of addenda, submittal of a partially or fully revised document, submittal of revised supporting documentation or other approved vehicle to NYSDEC.

3.3.1.1 Groundwater Characterization Monitoring

Groundwater monitoring will be performed at the eleven well locations located within the golf course. Upon commencement of operation of the golf course, groundwater sampling will take place annually with samples being analyzed for constituents listed in 6 NYCRR Subpart Part 360-2.11 routine parameters. The groundwater monitoring report and summary will be submitted to NYSDEC as a part of the annual monitoring and inspection report. Monitoring and inspection

will commence concurrently within 60 days of the approval of the construction certification report for a period of three years.

Upon completion of 3 years of post-operation annual routine groundwater sampling DPR may submit documentation to NYSDEC in furtherance of a request to reduce or cease groundwater sampling at the FPP golf course. DPR agrees to perform operational groundwater sampling, data analysis and reporting for a minimum of three years after construction, with the goal of demonstrating whether operation of the Park adversely impacts on water quality with respect to leachate quality or quantity, and whether operation of the park meets the performance criteria established in the 2013 Permit. .

When the request for cessation is accepted, the groundwater monitoring wells will be evaluated for either abandonment or removal within the first year of the cessation of monitoring. The abandonment or removal documentation, signed and certified by a licensed NYS Engineer will be provided to DEC within the concurrent post closure reporting period after the completion of the work.

3.3.1.2 Long Term Settlement Monitoring

Long term settlement monitoring will be performed at the 9 installed settlement monitoring plates throughout the golf course for a period of thirty years after completion of construction.

The long term settlement monitoring report and summary will be submitted to NYSDEC as a part of the annual monitoring and inspection report and will be certified by a licensed NYS professional engineer. The report will include:

1. Commencing within 60 days of the approval of the construction certification report, for a period of five years, the quarterly monitoring results collated and summarized for the year.
2. Commencing at the fifth year, for a period of five years, bi-annual monitoring results collated and summarized for the year.
3. Commencing at the 10th year, for a period of twenty years, yearly monitoring results and summary.

Monitoring will commence concurrently within 60 days of the approval of the construction certification report for a period of three years. Based on the results of the initial five years of monitoring, DPR may petition for decreased monitoring or a cessation in frequencies.

When the request for cessation is accepted, the long term settlement plates will be evaluated for either abandonment or removal within the first year of the cessation of monitoring and inspection. The abandonment or removal documentation signed and certified by a licensed NYS Engineer, will be provided to DEC within the concurrent post closure reporting period after the completion of the work.

3.3.1.3 Landfill Gas Monitoring Program

The LFG monitoring program, in accordance with the 2013 Permit will support compliance with the following requirements: (1) the concentration of explosive gases will not exceed 25% of the lower explosive limit (LEL) in on-site structures; and (2) the concentration of explosive gases must not exceed the LEL at the property boundary as defined by the Landfill Gas Management Plan (LFGMP).

Operations, monitoring and maintenance (OM&M) for the Site's LFG management system will take place on an ongoing, routine schedule with additional inspections to address maintenance concerns and potential alarm call-outs, and to provide contingency monitoring and actions as needed. The OM&M plan for the Site is presented in Section 6 of the LFGMP (located in Appendix F.1 of the October 2013 Supplemental Engineering Report).

OM&M of the piezometer network is also incorporated into Section 6 of the LFGMP (see Appendix F.1). OM&M operations regarding landfill gas are to be in compliance with the LFGMP. The abandonment or removal documentation signed and certified by a licensed NYS Engineer, will be provided to DEC within the concurrent post closure reporting period after the completion of the work as documented in the OM&M plan.

The LFG monitoring report and summary will be submitted to NYSDEC as a part of the annual monitoring and inspection report unless otherwise noted within the OM&M plan. Monitoring and inspection will commence concurrently within 60 days of the approval of the construction certification report unless otherwise noted within the OM&M plan. Adjustments to monitoring frequencies will be requested of NYSDEC upon meeting the performance criteria thresholds identified in Section 6.3.4.2 of the LFG Management Plan. DPR will submit a request with supporting documentation to NYSDEC 30 days prior to the desired date of the proposed change in monitoring. DPR will not change monitoring frequencies until the request has been approved.

3.3.2 Post Construction Custodial Care Inspections and Maintenance

The site will be operated as part of the New York City Department of Parks and Recreation system. The Community Park and Waterfront Park will be operated and maintained by the DPR Borough of the Bronx Operations and Maintenance division or an appointed representative. The golf course site will be operated and maintained, unless otherwise noted within the FPCCCP by a Concessionaire, identified as Trump Ferry Point, LLC. DPR remains responsible for all inspection monitoring, reporting and oversight of operations and maintenance of the applicable site wide components as identified within the FPCCCP.

Inspection and maintenance will be conducted in coordination with monitoring events unless otherwise noted or as directed by DEC in response to a specific

monitoring condition or violation. If a contingency action or maintenance is warranted based on the inspection it will be noted in the inspection report to be provided as explained below. The inspection report will be submitted annually for the first ten years and then every five years unless noted; the first report will be submitted within 30 days of the initial monitoring and inspection operations. Subsequent reports will be submitted within 30 days of the submittal of the initial report unless otherwise noted or as directed by DEC in response to a specific monitoring condition or violation. Reports will be certified by a New York State licensed engineer.

The inspection reports will include:

1. Brief Summary
2. Site Inspection Documentation
3. As noted, photographs documenting site conditions.

The content and scope of the inspection reports may be subject to change based on the termination or reduction in frequency of monitoring and maintenance activities. DPR will advise through a transmittal letter included with the inspection report of any changes within the inspection report. Inspection reports will be sent to:

NYSDEC Region 2 Office
C/O Division of Materials Management
1 Hunters Point Plaza
47-40 21st Street
Long Island City, NY 11101

As relevant and in accordance with specific component plans, DPR may consult with DEC for guidance regarding the appropriate data to demonstrate whether or not DPR has achieved the performance goals that would provide the basis for modifying or terminating any or all components of the plan.

Component	Frequency	Duration
Final Cover System	Quarterly	5 years
LFG System	Quarterly	5 years
Infrastructure	Bi-Annually Annually	10 years 15 years
Groundwater Monitoring	Annually	3 years*
Long Term Settlement Plates	Quarterly	5 years*
Parking Lot Asphalt Cover (April & October)	Bi-Annually Annually	5 years* 20 years*

*Denotes Dependent on Cessation of Activity

3.3.2.1 Final Cover System

The integrity of the final cover system will be inspected by DPR quarterly and will report to DEC on an annual basis during the post-closure period to observe and document changes as they occur to the cover system.

Inspection frequencies, procedures and documentation are applicable to erosion damage, vegetative cover condition, settlement and the cover drainage system. Those systems that may specifically impact the integrity of the final cover system.

Final Cover System inspections are performed routinely as part of the Golf Course Operations and Management Manual, as the integrity of the cover system is paramount to the success of the Golf Course. The maintenance of the golf course will be performed by Trump Ferry Point LLC with inspections performed by a duly appointed DPR representative. Please refer to Appendix I.5 of this plan for further information regarding the Golf Course management operations..

DPR agrees to a rolling five-year plan, whereby DPR may petition to modify or terminate the final cover inspection requirements by demonstrating that the integrity of the final cover system has been maintained in accordance with performance criteria established in the 2013 Permit. DPR may consult with DEC to ensure that DPR is collecting and reporting the appropriate data for this purpose. For the purpose of reporting a yearly inspection report will be submitted verifying the integrity of the final cover system for a period of thirty years, unless otherwise approved by DEC for the Ferry Point Park East Site. The report will be certified by a New York State licensed engineer. The inspections will be performed by an appointed DPR representative. Commencing within 60 days of the submittal of the post construction certification report and then undertaken annually within 30 days of the submittal of the initial report.

As part of the inspection, DPR or their duly appointed representative will:

(a) verify the cover systems are being maintained as per routine visual inspections observing and noting any significant diversions from the final cover system. Any findings will be recorded in the inspection report.

(b) DPR will inspect the surface of the cover for evidence of erosion within one week of a storm event with precipitation amounts greater than a 100 year storm event or as otherwise directed by DEC for any precipitation event. If erosion damage greater than eight inches in depth has occurred, or if an area greater than one quarter of an acre of vegetative cover has been destroyed due to erosion, corrective action will be initiated within 30 days of the incident.

(c) in the unlikely event that a large unexplained settlement problem, or vegetative die-off occurs, examine the subsurface conditions beneath the distressed areas. Non-destructive techniques will be utilized at the location of the problem where there is significant contrast from surrounding areas and evidence of large scale settlement. Excavation of test pits will not be conducted due to the

complexity of the designs. If the exploratory operation penetrates the areas where a demarcation layer is placed, then it will be excavated and patched according to the sub surface plan. Backfill for exploratory operations above the demarcation layer will be of a material compatible with the final cover system plan. The exploratory operations will be backfilled with suitable material from their total depth to the ground surface. Photographic documentation of these operations will be included with the inspection report.

(d) note any bare areas susceptible to erosion and the presence of deteriorated or dead vegetation.

(e) during each of the inspections, observe the cover drainage system and note any presence of debris in the discharge pipes or waterlogged soil condition which may indicate that the drains are not functioning. If debris is found in discharge pipes that will be initiated within 14 days to clear the pipes.

Documentation: DPR or their duly appointed representative will submit to NYSDEC, Department of Materials Management correspondence that contains the information noted above as well as provides for an explanation of any contingency actions.

Contingency Action: If significant maintenance is required as a result of the inspections, unless otherwise noted, DPR has 60 days to remedy the issue. If it is determined that the issue cannot be resolved within the 60 days, DPR will immediately inform NYSDEC and request an extension of time based on the scope of work necessary to bring the issue to closure. A report will be submitted to NYSDEC within 60 days of completion of work that documents the specific close-out of the action item. DPR agrees to notify DEC within 7 days of detecting any significant issue found during inspection, and to provide a schedule and plan for remedying the condition. DPR will take steps to stabilize the condition within 60 days unless directed by DEC to expedite the remedial work, or, if the remedial action will take longer than 60 days to implement, and DEC has agreed to an extended schedule.

3.3.2.2 Landfill Gas Management

Operations, monitoring and maintenance (OM&M) for the Site's LFG management system will take place on an ongoing, routine schedule with additional inspections to address maintenance concerns and potential alarm call-outs, and to provide contingency monitoring and actions as needed. The OM&M plan for the Site is presented in Section 6 of the LFGMP (located in Appendix F.1 of the October 2013 Supplemental Engineering Report).

OM&M of the piezometer network is also incorporated into Section 6 of the LFGMP (see Appendix F.1). OM&M operations regarding landfill gas are to be in compliance with the LFGMP.

The LFG inspection report will be submitted to NYSDEC as a part of the annual monitoring and inspection report unless otherwise noted within the OM&M plan. Monitoring and inspection will commence concurrently within 60 days of the approval of the construction certification report unless otherwise noted within the OM&M plan.

3.3.2.3 Groundwater Characterization Monitoring

Groundwater characterization monitoring infrastructure inspections will be performed 30 days prior to the sampling events to ensure that infrastructure necessary to successfully perform the sampling event is in adequate working condition.

Upon commencement of operation of the golf course, groundwater infrastructure inspections will take place annually.

DPR agrees to perform operational groundwater sampling and reporting for a minimum of three years after construction, with the goal of demonstrating whether or not operation of the Park adversely impacts on water quality with respect to leachate quality or quantity, and whether or not operation of the park meets the performance criteria established in the permit modification. DPR may consult with DEC to ensure that DPR is collecting the appropriate data to achieve the performance goals that would provide the basis for a cessation of groundwater sampling or a reduction in sampling frequency. Commencing within 60 days of the submittal of the post construction certification report and then undertaken annually within 30 days of the submittal of the initial report. Inspections will continue annually past the eight year term of inspections only if the petition to discontinue monitoring is denied. At that time a revised inspection timeline will be submitted to NYSDEC as an addendum to this plan.

As part of this inspection, DPR or their duly appointed representative will:

(a) inspect the monitoring wells to confirm the area surrounding the well is free of debris and vegetation that may affect the ability to accurately sample the wells. If the area is not free of debris or vegetation all materials that hinder the ability to sample will be removed 72 hours prior to the sampling event.

(b) confirm that all components and parts of the well are working correctly and free of defect or damage that affects the ability to accurately sample the wells. If all the components and parts of the well are not functional, all repairs must be completed 24 hours prior to the sampling event.

Documentation: DPR or their duly appointed representative will submit to NYSDEC, Department of Materials Management correspondence that contains the information noted above as well as provides for an explanation of any contingency actions.

Contingency Action: If it is determined that the issue cannot be resolved within the 30 days, DPR will immediately inform NYSDEC and request an extension of

time based on the scope of work necessary to bring the issue to closure. And a revised monitoring date will be included with the request. A report will be submitted to NYSDEC within 60 days of completion of work that documents the specific close-out of the action item.

3.3.2.4 Long Term Settlement Plates

Long term settlement plate inspections will be performed 30 days prior to the settlement plate monitoring event on an annual basis commencing within 60 days of the submittal of the post construction certification report and then undertaken annually within 30 days of the submittal of the initial report. As DPR may petition for decreased monitoring frequencies if data supports the request at year five, inspections of the settlement plate locations will terminate based on the NYSDEC decision. Consistent with the rolling five-year schedule DPR agrees to monitor the long term settlement plates in accordance with the performance goals established in the 2013 permit until DPR has demonstrated to DEC that continued monitoring is no longer necessary. If additional monitoring is required inspections will continue on an annual basis until otherwise approved by DEC.

As part of this inspection, DPR or their duly appointed representative will:

(a) verify that the settlement plate location is being maintained to allow for the proper monitoring of the settlement . If the area is not properly maintained, the area will be properly cleared 48 hours prior to the monitoring event.

(b) visually inspect the monitoring apparatus, if the apparatus is not fully functional via the visual inspection, DPR will remedy the settlement plate apparatus 48 hours prior to the monitoring event.

Documentation: DPR or their duly appointed representative will submit to NYSDEC, Department of Materials Management correspondence that contains the information noted above as well as provides for an explanation of any contingency actions.

Contingency Action: If it is determined that the issue cannot be resolved within the 30 days, DPR will immediately inform NYSDEC and request an extension of time based on the scope of work necessary to bring the issue to closure. And a revised monitoring date will be included with the request. A report will be submitted to NYSDEC within 60 days of completion of work that documents the specific close-out of the action item.

3.3.3 Sub-Surface Operations Plan

The Sub Surface Operations plan reviews those appropriate controls to protect worker health and safety and assure that soils meeting the cover layer materials requirements are restored. As previously stated, DPR contemplates an amendment to this plan once construction operations on the site are finalized based on final construction information.

The amendment will be submitted within 90 days of the approval of the certification report.

1. The Plan will apply to disturbances of material below the cover layer (i.e. soils at a depth below the finished grade of greater than one foot or two feet) or for areas where the demarcation layer is required to be breached.

2. For purposes of the Plan, sub surface activities will be characterized as either routine or non-routine as described below:

   A. Routine Disturbances

   Routine disturbances are those generally associated with the operations and maintenance of the project. Examples include localized pipeline or electrical replacement/repairs, drainage system repairs, building or pond system repairs. These disturbances will always encompass less than one acre in area.

   B. Non-Routine Disturbances

   Non-routine disturbances are those not generally associated with the operations and maintenance of the project and larger projects. Examples include pipeline excavation and replacement, course upgrade involving re-grading. All disturbances of greater than one acre in area will be considered non-routine. Based on the nature of the disturbance and applicable regulatory guidance, inspection certification by a qualified environmental professional may be required and will be vetted with the advance notification to DEC. The below table presents the various plan elements to be prescribed and initiated for both routine and non-routine disturbances. As necessary additional information is provided below the table:

Management Element	Routine Disturbances	Non-Routine Disturbances
Advanced Notification to NYSDEC	No	Yes
Initiation of Worker Health and Safety Plan	Yes	Yes
Inspections certification by Environmental Professional	No	Yes
Dust Control	No	Yes
Stockpile Protection	Yes	Yes
Stormwater Pollution Prevention	No	Yes, if greater than 1 acre of disturbance
Segregation of existing cover material for reuse	Yes	Yes
New cover layer material option	Yes	Yes
Excess Soil Material Disposal	Yes	Yes
MSW Segregation & Disposal	Yes, but not anticipated	Yes, to the extent excavated

In all areas where the demarcation layer is breached, the layer must be re-installed to include the original area of coverage removed during operations. Once the de-

marcation layer is re-installed backfilling of compatible materials to those removed may occur.

When stockpiling occurs, all material above the demarcation layer or material within one or two feet (as applicable by the recreational designation) will be segregated for re-use. Material will be visually inspected upon excavation to ensure comingling does not occur.

The material designated for re-use will be segregated from other excavated materials and placed in a location proximate to the excavated area. The stockpiles will be visibly marked for re-use via placards or other similar methods. Material stockpiles will consist of approximately 500 cubic yards. These piles will generally have a 60 ft by 60 ft footprint and be approximately 6 ft in height. The material stockpiled will be covered with plastic sheets at end of each day. Plastic sheet covers will be weighted down with sand bags or equal at the end of the day to avoid a sailing effect.

Material that is not designated for re-use will be removed from the site and transported to a facility compatible to the disposal requirements. The material will be characterized to ensure proper disposal prior to leaving the site. A report of the material characterization and the identification of the disposal location will be submitted as part of the routine and non-routine reporting requirements.

At times, additional cover layer material may be required to be imported to the site to supplement that material identified for re-use. This material will meet the performance requirements for each component of the Ferry Point Park East project as subject to the Permit. However, one chemical analytical test will be performed per 10,000 cubic yards of cover material to be imported if the material is specifically of the nature of non-exempt construction debris as under the jurisdiction of the permit. If the material to be used is commercially available and purchased for the purpose of replacing or supplementing the cover layer this material is exempt from analytical testing. The analytical report will be included as part of the post event reporting.

Documentation: DPR or their duly appointed representative will submit to NYSDEC, Department of Materials Management correspondence that contains the following information as it relates to routine or non-routine actions:

1. Routine Actions: These actions will be reported as part of the annual inspection report. The report will include proper documentation including a written summary of the event, photographic documentation and a location plan of the routine action.
2. Non-Routine Actions: These actions will be reported to NYSDEC 60 days prior to an event. This notification will include summary documentation regarding the scope of the action and a schedule for the commencement and conclusion of the action and any designs or details as deemed applicable by DPR. Within 90 days of completion, DPR will provide NYSDEC a report

documenting close-out of the action and provide updated as-built drawings as necessary.

If non-routine actions are imminently required due to site safety or operational risks, DPR will immediately inform NYSDEC of the action and commence operations as necessary.

Within 10 days of the commencement of these operations DPR will provide NYSDEC with a draft schedule of completion.

Within 90 days of completion, DPR will provide NYSDEC a report documenting close-out of the action and provide updated as-built drawings as necessary.

3.3.4 Health and Safety Plan and Emergency Contact

A Site-Wide Health and Safety Plans (HASP) was developed for construction operations at Ferry Point Park East and approved by DPR in 2009. Based on sub surface post construction operations and maintenance certain portions or the plan in its entirety will be instituted. The HASP is attached as Appendix I.1.

The DPR appointed emergency contact personnel for the site will be submitted with the amended sub surface operations plan. If there are personnel changes this will be noted via an e-mail correspondence to NYSDEC upon identification of the new personnel and noted in the annual report.

3.4 Consent Order Maintenance

As per the Order of Consent the following inspection schedule attached as Appendix I.1 specific to "Attachment "A" Proposed Handling of Ferry Point Park Soil Stockpile, Item 6 will be followed:

"*Once the asphalt top course is installed, the asphalt surfaces of the clubhouse and maintenance facility parking lots will be inspected during April and October every year by a licensed professional engineer ("engineer") who is registered to practice in New York State. Within thirty days (30) days of such inspections, the engineer will submit to the Department a stamped and certified written detail report, including photo documentation, regarding the condition of the asphalt surfaces and their adequacy, including photo documentation, regarding the condition of the asphalt surfaces and their adequacy to effectively function as covers. A description of any needed repairs will be included in the engineer's report.*

Item 7, Any repairs deemed necessary by the engineer must be completed by New York City Department of Parks and Recreation ("NYC Parks") within fifteen (15) days of the notification by the Department to NYCDPR to begin such repairs. A certification, including supporting written and photo documentation must be submitted by NYC Parks within fifteen (15) days after completion of repairs."

3.5 Golf Course Maintenance Guidelines

The **Maintenance Guidelines for Trump Golf Links at Ferry Point Park** attached as Appendix I.5 provides for the operations and maintenance of the golf course by the Concessionaire for a period of 25 years commencing once the golf course is operational. The manual describes those operations and maintenance activities contemplated as part of the day to day operations of the golf course facility. The maintenance guidelines are subject to amendment and revision based on site conditions over time.

Ferry Point Park East
Landfill Gas Management Plan

Originally submitted in October 2011
Revised in May 2012
Revised on August 31, 2012
Revised on October 15, 2013

Prepared for:

NEW YORK CITY DEPARTMENT OF PARKS & RECREATION
Olmstead Center
Flushing Meadows – Corona Park
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List of Abbreviations and Acronyms

AES	American Environmental Solutions, Inc.
AGC	Annual Guideline Concentrations
AKRF	Allee, King, Rosen & Fleming, Inc.
BGS	below ground surface
CAA	Clean Air Act
CEQR	City Environmental Quality Review
cfm	cubic feet per minute
CO_2	carbon dioxide
cy	cubic yard
°F	degrees Fahrenheit
DPR	(New York City) Department of Parks and Recreation
DSNY	New York City Department of Sanitation
EAS	Environmental Assessment Statement
EEEPC	Ecology and Environment Engineering, P.C.
EPA	(United States) Environmental Protection Agency
FPP	Ferry Point Partners, LLC
GHG	greenhouse gas
HAP	hazardous air pollutant
in/sec	inches per second
in-wc	inches of water column
LDPE	low density polyethylene
LEL	lower explosive limit
LFG	landfill gas
LFGMP	Landfill Gas Management Plan
M&M	monitoring and maintenance
m^3/Mg	cubic meters per megagram
Mg/yr	megagrams per year

List of Abbreviations and Acronyms (cont.)

MSW	municipal solid waste
N_2	nitrogen
NMOC	non-methane organic compound
NYCCR	New York Codes, Rules, and Regulations
NYCDEP	New York City Department of Environmental Protection
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
O_2	oxygen
O & M	operation and maintenance
OM&M	operations, maintenance and monitoring
ppm	parts per million
psi	pounds per square inch
ROI	radius of influence
SEQRA	State Environmental Quality Review Act
SF	square foot
SGC	short-term guideline concentration
SOW	scope of work
SSD	sub-slab depressurization
TRC	TRC Engineers
ULURP	Uniform Land Use Review Procedure
VOC	volatile organic compound
Walsh	Walsh Environmental Scientists and Engineers, LLC

1 Introduction

Ferry Point Park in the Bronx (the Site) is a former landfill that is bounded by the Bronx Whitestone Bridge and Hutchinson River Parkway to the west, Balcom, Miles, and Emerson avenues to the east, Schley Avenue and St. Raymond's Cemetery to the north, and the East River to the south.

New York City Department of Parks (DPR) has initiated development of a community park, waterfront park, and a golf course on the Site. The boundaries of these portions on the Site are presented in Figure 1-1.

Ecology and Environment Engineering, P.C. (EEEPC) has prepared this Landfill Gas Management Plan (LFGMP) to evaluate landfill gas (LFG) conditions at the Site and to describe the systems proposed for long term LFG control at the Site.

The Ferry Point landfill ceased municipal waste (MSW) landfill operations in the 1960s, and has been closed for approximately 50 years. Over 12 years of LFG monitoring data is available for the Site, dating from 1999. Several field investigations and two gas emissions models have also been completed for the Site. This extensive supply of data forms the basis for the LFG management and monitoring methods proposed in this document.

1.1 Purpose and Scope

Environmental compliance for site development is being conducted in accordance with a November 2005 New York State Department of Environmental Conservation (NYSDEC) modified Part 360 Solid Waste Management Permit, for which DPR is the current permit holder.

The proposed LFG management and monitoring approach presented in this document will be incorporated into the Part 360 permit renewal application for the Site. A review of available documentation of previous activities relating to LFG monitoring, investigation, and control at the Site was performed and is presented as a preface to the design component of this plan.

The LFG design presented in this LFGMP supplements prior site conceptual LFG designs and proposes a Site-wide passive system for the venting of LFG in all areas not covered by enclosed facilities. The primary goal for the Site's LFG management has always been to ensure safe conditions and the protection of human health.

The proposed passive system is consistent with the plans presented in the 1999 EAS (AKRF 1999), the 2002 Technical Environmental Assessment (AKRF 2002), and the 2005 Engineering Reports (TRC 2005a, b), and approved under the current Part 360 Permit. It deviates from the 2009 permit renewal application prepared by TRC Engineers (TRC), which recommended an active system. A review of TRC Site investigations and extraction testing by Walsh Environmental Scientists and Engineers, LLC (Walsh) and emissions modeling performed by EEEPC in 2010 was used to conclude that a passive system is sufficient to achieve safe conditions for golf course users or workers.

Existing and proposed LFG control systems are listed in Table 1-1.

Table 1-1 Existing and Proposed Landfill Gas Control Systems at the Site

Control System and Location	Type	Concept Included in 2005 Permit	To be Included in Renewed Permit?
Golf Course			
Irrigation Lake Venting System	Passive[1]	Yes	Yes
Water Quality Ponds Venting System	Passive	No	Yes
Sub-slab depressurization systems 1) One 12,000-square-foot maintenance facility 2) One 800-square-foot comfort station on the eastern area of the Site; and 3) One approximately 15,000-square-foot combined golf course, clubhouse, and banquet facility (not yet designed (NYD))	 Active Active NYD	 Yes Yes Yes	 Yes Yes NYD
LFG passive venting for subsurface utility lines that enter enclosed facilities or travel offsite	Passive	Yes	Yes
Perimeter Vent Trench	Passive	Yes	Yes
Individual LFG Vents[2]	Passive	Yes	Yes
Community Park			
Perimeter Vent Trench Along Eastern Perimeter – buried trench with individual LFG Vents along its length.	Passive	Yes	Yes
12 Individual LFG Vents	Passive	Yes	Yes
Sub-slab depressurization system for one 800-square-foot comfort station	Active	Yes	Yes
Water Quality Ponds Venting	Passive	Yes	Yes
Individual LFG Vents	Passive	Yes	Yes

Table 1-1 Existing and Proposed Landfill Gas Control Systems at the Site

Waterfront Park			
Sub-slab depressurization system for one comfort station (not yet designed)	NYD	Yes	NYD

Notes:

1. The Irrigation Lake venting system infrastructure allows for the connection of an active blower system as a potential contingency action. Section 6 discusses the conditions under which contingency actions may be taken.
2. See Section 5 for discussion of passive venting design and Appendix A for layout and details of passive gas vents.
3. NYD denotes "Not Yet Designed".

1.2 Document Organization

The remainder of this document is divided into four sections. The purpose of each section of this LFGMP is as follows:

- Section 2 - Landfill Gas Generation and Movement: Discusses gas generation rates and primary gas migratory pathways within landfills.
- Section 3 - Background: Discusses Site setting and project history, proposed facilities, sampling and monitoring data, and the evolution of the LFG collection system design.
- Section 4 - Evaluation of Existing Landfill Gas Data and LFG Exposure Assessment: Presents a Site conceptual model that includes an outline of the vertical and lateral extent of the LFG within the interior of the Site and at and along the Site perimeter, and an assessment of the risk from exposure to LFG both on site and at the Site perimeter. Provides a collective review of the data and draws conclusions on current and future site LFG conditions.
- Section 5 - Landfill Gas Management Approach: Discusses the basis for the proposed design. Provides design details of the proposed final LFG collection system.

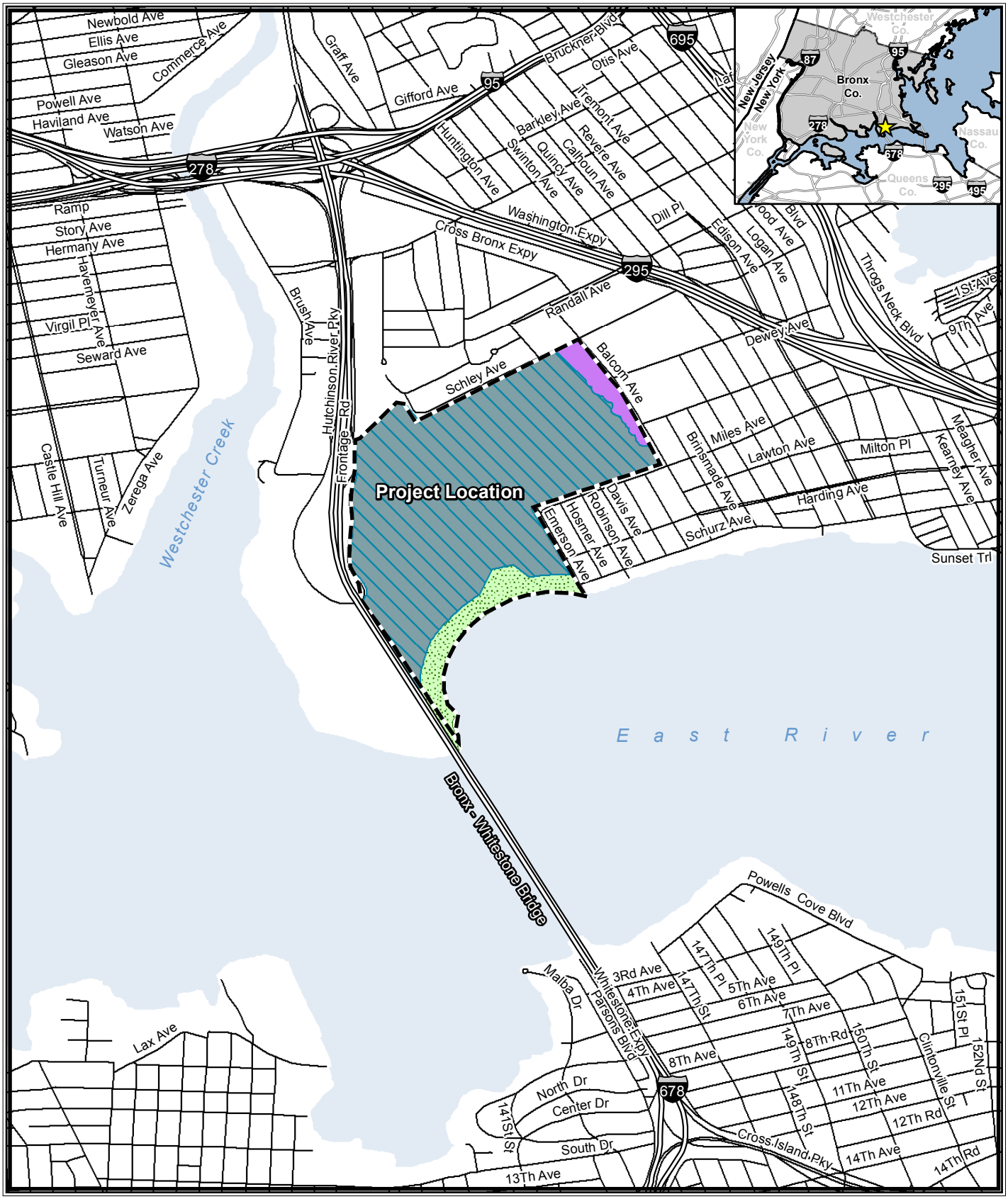

Project Boundary
Community Park
Golf Course
Waterfront Park

ecology and environment engineering, p.c.
International Specialists in the Environment

0 0.25 0.5 1 Miles

Figure 1-1 Site Location Map

2 Landfill Gas Generation and Movement

2.1 Landfill Gas Generation

LFG is generated in a landfill when bacteria in the landfill waste use anaerobic processes to break down organic material. LFG is composed primarily of methane and carbon dioxide. LFG also contains small amounts of nitrogen, oxygen, water vapor, sulfur, hydrogen, and other non-methane organic compounds (NMOCs). NMOCs comprise less than 1% of LFG and include ethane, propane, butanes, pentanes, and other carbon compounds.

The specific components and quantity of LFG depend on a number of factors, which include but are not limited to the following:

- Waste composition;
- Age of refuse;
- Moisture content; and
- Temperature.

2.1.1 Methane Generation

Methane concentrations in landfills can vary according to the season, with low concentrations of methane and high concentrations of carbon dioxide in the summer.

2.2 Landfill Gas Migration Pathways

Migration of LFG in the subsurface is influenced by several site-specific factors such as pressure and diffusion gradients, subsurface lithology and soil stratigraphy, and groundwater levels. The factors affecting LFG migration are discussed below.

2.2.1 Diffusion

LFG does not build up in a landfill in a uniform manner. As it builds up in the subsurface, it moves from areas of high concentration to areas of lower concentrations. Since gas concentrations are higher within the landfill than outside the landfill, LFG will tend to diffuse, or spread, to surrounding areas.

2.2.2 Pressure Gradient

Pressure gradients enable LFG to move both vertically and horizontally within a landfill. This is the primary way LFG moves within the subsurface. As gas continues to be generated, the pressure increases and LFG moves to areas of lower pressure. If there is a confining, or less permeable, layer in place above the MSW layer, LFG will move laterally toward an area of lower pressure.

If no confining layer is present, LFG will migrate vertically to the surface, where it exits the landfill surface into the atmosphere. This occurs when the LFG subsurface pressure is higher than barometric pressure. Diffusion of LFG into the atmosphere results in a rapid reduction to negligible and safe levels once it reaches the landfill surface.

2.3 Vertical Landfill Gas Migration

The methane component of LFG is lighter than air. As a result, LFG will travel upward if the permeability of the overlying material is equal or higher than that of the surrounding material

Groundwater level is another factor that influences vertical migration: as the water table rises into an area of the landfill, it forces the LFG upward.

2.4 Horizontal Landfill Gas Migration

LFG can migrate horizontally through both natural pathways (fractured rock and porous soil) and man-made pathways (e.g., porous pipe bedding materials, utility pipes and conduits, sand or gravel layers). Layers of low-permeability material that overlie LFG-producing waste material can significantly reduce surface emissions but increase the likelihood for horizontal migration.

3 Background

3.1 Site Setting and Project History

3.1.1 Setting

The Site, a former landfill, is located in the Bronx next to the Whitestone Bridge and is bounded by the Hutchinson River Parkway to the west; Balcom, Miles, and Emerson Avenues to the east; Schley Avenue and Saint Raymond's Cemetery to the north; and the East River to the south (see Figure 3-1). The original parcel of 171 acres was first acquired by New York City in 1937, and two additional parcels totaling 243 acres were acquired by the City in 1948. From 1951 into the 1960s, the New York City Department of Sanitation (DSNY) used the Ferry Point property as a municipal waste importation site (DPR 2007). Figure 3-1 shows the approximate fill progression at the Site. Landfill operations ceased in the 1960s. Upon closing, the landfill was capped with a soil cover of varying thickness across the site.

A summary of the results from previous investigations is presented in the 2005 Engineering Report (TRC 2005a, b). A bibliography of documents reviewed is provided in Section 6 of this LFGMP.

3.1.2 Project History

In the late 1990s, the DPR entered into an agreement with Ferry Point Partners, LLC (FPP) to develop, construct, and operate a new public recreation facility, including a golf course, community park, waterfront park, and related facilities that would encompass 222 acres of the Site. At that time, all required reviews for the Project were completed under the City Environmental Quality Review (CEQR), the State Environmental Quality Review Act (SEQRA), and the City's Uniform Land Use Review Procedure (ULURP).

In July 2000, NYSDEC issued a Part 360 Solid Waste Management Permit (NYSDEC No. 2-6006-00014-000110; Part 360 Permit) jointly to the FPP and the DPR (collectively, the "Historic Permittee") for a non-specific "facility" under Part 360-1.9(b) at the Site. This permit allowed the import and placement of a total of 1,000,000 cubic yards (cy) of fill necessary to construct the golf course. In February 2002 and November 2005, the Part 360 Permit was modified to accommodate additional golf course design features and changes in the design approach. In November 2005, NYSDEC issued a modified Part 360 Solid Waste Management Permit (No. 2-6006-00014/00013) to place a total of 2,370,000 cy of in-place fill on the Site (NYSDEC 2005).

In 2007, the DPR terminated its license agreement with the FPP. Since that time, the DPR has taken over the site development responsibilities and has initiated re-development of the community park, waterfront park, and golf course portions of the Site.

3.2 Current Project Plans

3.2.1 Overview

The project includes the development of public recreational facilities (waterfront and community parks) on 29.5 acres, a comprehensive golf facility on 192.5 acres, and a fine-dining/banquet facility incorporated into the golf course club-house facilities.

3.2.2 Cover Soil

As per the 2005 Part 360 Permit, 423,729 cy of uncontaminated soil were approved for use in the cover layer. The final cover/topsoil layer will consist of uncontaminated soil materials, which meet background levels approved by NYSDEC and will be imported from non-industrial sites. (For cover layer fill specifications see Section 2.1.2 of the 2005 Fill Report Volume 2, Exhibit C [TRC 2005b]).

Major components of the cover layer will be constructed to meet the Nicklaus Design Technical Specification as noted in Exhibit C of the June 30, 2005, Engineering Report (TRC 2005a), and summarized here as follows:

- Greens mix imported to the site shall be tested per the specified material testing requirements. Fertilizer and soil amendments may be applied on the greens mix after spreading and grassed; and

- Topsoil imported shall be free of rock and debris greater than three-quarters of an inch. Soil amendments, fertilizer applications, and seed may be applied to tee, fairway, and rough areas.

A NYSDEC letter from July 28, 2009 (NYSDEC 2009) notes that a minimum thickness of 2 feet of cover layer material is required for all active recreation areas that are not covered with a building or other acceptable impermeable cover and at least 1 foot of cover layer material is required for passive recreation areas.

The 2005 permit requires that “the major components (greens, contours, heights and topsoil) of the cover layer shall meet the Nicklaus Design Technical Specification, as noted in Exhibit C of the June 30, 2005 Engineering Report.” In accordance with the Nicklaus Technical Design Specifications, the Permit allows amendments to the topsoil and/or sand capping. Because imported material may not be readily available, sand capping may be used as an alternative to topsoil on portions of the course.

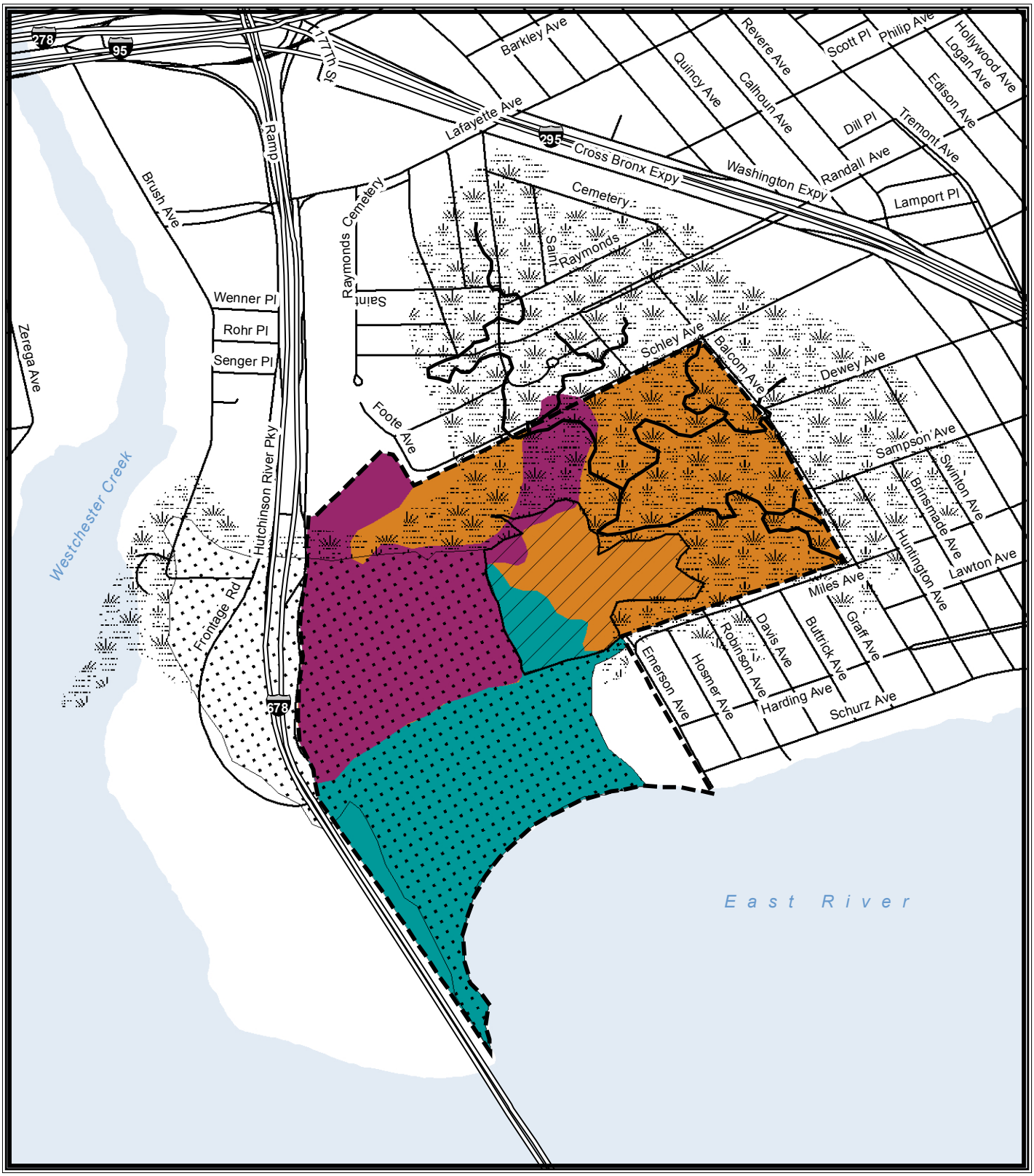

Figure 3-1 MSW Fill Progression Map

Project Boundary

Area Filled 1951

Area Filled 1954

Area Filled 1959

Historic Baxter Creek

Historic Marshlands

Historic Baxter Creek Inlet

Historic East River

ecology and environment engineering, p.c.

0 0.125 0.25 0.5 Miles

Source Data: Historic Wetland Maps:
Friends of Ferry Point Park http://www.ferrypointpark.org/

3.2.3 Buildings

The following buildings are proposed for the golf course portion of the Site:

- Two 220-square-foot, open-air rain shelters located on the western and northern portions of the site
- One 12,000-square-foot maintenance facility on the western portion of the site
- One 800-square-foot comfort station on the eastern area of the site
- One approximately 15,000-square-foot combined clubhouse and banquet facility on the southwest portion of the site.

The following is proposed for the community park:

- One 800-square-foot comfort station near the center of the park.

The following is proposed for the waterfront park:

- One comfort station on the western area of the park.

3.2.4 Utilities

An extensive storm sewer system will be installed throughout the golf course. Storm water will be drained from the golf course and directed to on-site water quality ponds located within the golf course or to New York City Department of Environmental Protection (NYCDEP) combined sewer systems. Excess water beyond the storage capacity of the ponds will also be directed from the water quality ponds to the NYCDEP sewer system.

The main drainage line for the golf course surface catchment system will be set at a depth of approximately 3 to 4 feet below ground surface (BGS). Lateral branches to the fairways will intersect the main line at this elevation and will be graded to the fairways with a final depth of 1.5 to 2 feet. A fairway "herring-bone"-shaped surface drainage system will tie into these lateral branches and into the main site storm drainage line.

The drainage master plan is presented in the NYCDEP Master Plan (Drawing X.126-808M of the Golf Course Contract Drawings).

A sanitary sewer is to be installed along the south, west, and north perimeter of the golf course and cross into the golf course at hole 18 and to the comfort station on the eastern area of the site. Other on-site subsurface utilities include water main, electric, telephone, and gas. These utilities will service buildings and run along the western and northern perimeter of the Site as well as to the comfort station on the eastern area of the Site. Subsurface electric utilities are also to be installed throughout the practice area. Irrigation lines will be installed throughout the golf course fairways, greens, and tees.

Existing utilities at the Site include the Emerson Avenue Box Culvert and an abandoned passive methane-venting system. The box culvert runs along the Emerson Avenue alignment through the middle of the golf course. The methane-venting system was installed at the northeast portion of the site, east of the Emerson Avenue Box Culvert, in 1986. The system contained a series of collection lines that allowed LFG to travel through one main vent. Attempts to locate this system were unsuccessful, and the system's structural integrity or viability cannot be ascertained. Therefore, the existing system will not be incorporated into the currently proposed LFG venting system (see Section 3.3.2).

3.3 History and Evolution of the System

EEEPC reviewed site documents and reports generated since 1999 to develop an understanding of previous monitoring and control of LFG at the Site. A list of the documents reviewed for this LFGMP is presented in Section 6.

3.3.1 1999 Activities and Landfill Gas Control Systems

As described in the Hazardous Materials section of the 1999 Environmental Assessment Statement (EAS), Allee, King, Rosen, & Fleming, Inc. (AKRF) evaluated LFG at the Site (AKRF 1999). Both ambient air and subsurface borings were monitored. This investigation and recommended control systems are discussed below.

Although AKRF produced the 1999 EAS report and performed several gas monitoring studies for the project, TRC wrote the Hazardous Materials section of the report and incorporated AKRF investigations into their text. TRC analyzed methane emissions rate as part of this work.

Landfill Gas Monitoring

AKRF surveyed for soil gas in April 1999 to characterize LFG occurrence and assess the potential for adverse effects of methane gas on the golf course facilities. Thirty-one borings were measured for percentages of methane, carbon dioxide, and oxygen at depths of 2 to 3 feet below the landfill surface. Ambient air was monitored in the immediate vicinity of the survey points. Methane was not detected in the ambient air, even when measurements were taken at the surface immediately adjacent to the soil gas survey points. Readings below the landfill surface ranged from non-detect to 76% methane by volume and were described as being "not atypical of a landfill this size and age."

Landfill Gas Emission Rates

The 1999 EAS describes TRC's analysis of methane generation, which was used to determine sub-slab venting requirements under on-site buildings. Using the United States Environmental Protection Agency's (EPA's) "Compilation of Air Pollutant Emission Factors" (EPA 1995), TRC calculated a methane gas generation rate that considered the age of the waste, the rate and amount at which waste had been accepted over the lifetime of the landfill, and several constant factors for methane generation potential and rate constant based on Site conditions.

The calculations yielded a Site methane gas generation rate of 0.00004 cubic feet per minute (cfm) of methane per square foot, or about 2 cfm per acre of surface area. TRC determined that the maximum allowable gas concentration in the air beneath a structure was 1% or less of methane in air (less than 20% lower explosive level [LEL]).

Using the above generation rate and a safety factor of 2, a minimum venting rate of 0.008 cfm of air per square foot of sub-slab was determined (0.00004 cfm methane generation rate/ [1% allowable concentration/2])(see Section 4.1.6 for a comparison of this estimate with the LandGEM modeling results.

Based on the estimated methane emission rate and venting calculation, TRC recommended installing active venting systems beneath the planned Site structures. The 1999 report did not recommend LFG venting systems in open space areas, except for specific turf grass areas.

The movement of methane through turf grass and the vegetative soil layer was anticipated by TRC to have limited and isolated impacts. If needed, based on future evaluations, TRC suggested that an impermeable barrier with a permeable gas-venting layer could be constructed below selected areas of the course ensure turf health. This was to be determined on a hole-by-hole basis during the final project design phase.

1999 Conceptual Proposal for LFG Control Systems

The 1999 EAS recommended the following features for the LFG control system:

- LFG interception and venting systems would be below buildings and, in the area of built structures, direct LFG away from buildings to designated release points. Several venting systems were considered for further evaluation, including passive vents, continuous mechanical venting, or intermittent mechanical venting controlled by a methane monitor.

- Ponds to collect and store water on-site were to be constructed with impermeable membrane liner systems to prevent water leaks and a gas-venting layer for passive gas collection and venting.

- Soil plugs and conduit seals for underground utilities and drainage features would be constructed.

3.3.2 2001 through 2004 Activities at and around the Perimeter Vent Trench

Landfill Gas Control Systems

The LFG perimeter vent trench was the primary gas-management structure proposed and constructed in 2001. No additional changes were proposed to the 1999 conceptual LFG control systems (described above in Section 3.3.1) during this

time. The LFG perimeter vent trench was installed in order to prevent the migration of LFG off-site. TRC designed and oversaw the installation of the trench and provided certified drawings to NYSDEC for each stage for approval (AKRF 2002).

The LFG vent trench was constructed along the eastern and part of the northern Site perimeter from May 2001 to December 2001 (see Figure 3-2). The purpose of the trench was to allow passive gas venting and provide a physical gas barrier between the Site and adjacent residential neighborhoods. The passive vent trench extends from the water's edge near the foot of Emerson Avenue, along the length of the Balcolm Avenue Site boundary and continues approximately 1,050 feet west past the intersection of Schley and Buttrick avenues.

Landfill Gas Monitoring

Off-site Monitoring Study. Starting in March 2001, AKRF sampled off-site soils to evaluate off-site LFG migration. The results were reported in the February 2002 AKRF Methane Monitoring Study (Attachment A of the 2002 Technical EAS [AKRF 2002]), and included the following findings:

- Perimeter monitoring performed by Emteque Corporation indicated that methane outside the vent trench was below the LEL since November 2001. However, MW-0, located at the corner of Schley and Buttrick avenues in the former Baxter Creek, showed no change after the vent trench was installed and ranged from 10% to 20% methane by volume. AKRF concluded that the source of methane in this area was off-site.

- Elevated levels were noted on Buttrick Avenue between Randall and Schley Avenues. Specifically, three monitoring points along Buttrick Avenue (300 to 400 feet north of the Site) had elevated levels of methane in the soil ranging from 10% to 50% methane by volume. AKRF also reported that installation of the LFG vent trench had not impacted these readings and presented two explanations:

  1. Elevated methane levels were located over former Baxter Creek, a marshy area filled in before 1954. The plants and organic sediments could have produced methane when covered with fill and subsequent laboratory test results indicated that soils were rich in organic material.

  2. Garbage was found in two test pits along Buttrick Avenue and outside of the Site.

  Considering these factors and the fact that no methane was detected in the ambient air above the trench, AKRF concluded that methane detected on Buttrick Avenue was due to an off-site source.

SOURCE: Ecology and Environment Engineering, P.C. 2011

Figure 3-2 Monitoring Locations

TRC reported results for biweekly monitoring of methane in perimeter wells and off-site, semi-permanent monitoring points and measuring depth to groundwater in the piezometer network starting in February 2002 (TRC 2002). Locations of sampling points included in the monitoring program are shown in Figure 3-2. A discussion of the results of the off-site monitoring is presented in Section 4 of this LFGMP.

Perimeter Monitoring Wells. At NYSDEC's direction, FPP installed perimeter LFG monitoring wells MW-0 through MW-18 (not including MW-13) at approximately 250-foot intervals along the eastern border of the Site, adjacent to a residential neighborhood (AKRF 2002). In accordance with the Part 360 Permit, these wells were monitored biweekly and continue to be included in the LFG monitoring program.

Part 360 Permit Modification Application

In February 2002, TRC submitted a permit modification application to supplement the April 2000 Engineering Report prepared for the original Part 360 Permit application. TRC indicated in this document that the LFG control systems presented in the 2000 Engineering Report would be implemented. The following items were discussed.

Piezometer Installation and Monitoring. Details regarding installation and monitoring of piezometers were presented in this report. Twenty-five piezometers (PZ-01 through PZ-25) were installed at approximate 300-foot intervals along the trench, adjacent to Miles Avenue. The piezometers were installed to monitor groundwater elevations relative to the vent trench depth.

Monitoring was proposed to begin one week after the piezometers were installed and every month thereafter until six months after all fill had been placed on the Site. The piezometers were to be inspected every month.

LFG Perimeter Vent Trench. The vent trench was reported to be operating and forming a physical barrier to prevent methane from migrating off-site. The Permit application indicated that the trench was designed to operate passively. The trench was on a biweekly inspection schedule.

1986 Passive Ventilation System. In a response to NYSDEC comments on the February 2002 permit modification application, dated July 2, 2002, TRC indicated that FPP planned a visual and test pit program to evaluate the systems around the 1986 passive-venting system outflow vent location. If the outflow vent could be located and nearby piping from the collection wells to the outflow vent were found to be functioning (i.e., conveying methane), the passive venting system would remain in place and FPP would construct and maintain a new outflow vent "at a nearby location removed from the primary golf course features." It is also stated in this response that MW-19 was installed separately by FPP and is not the outlet vent of the 1986 system. In follow-up correspondence with NYSDEC, dated February 10, 2003, TRC discussed their field investigations to locate the his-

toric venting system (TRC 2003a). Test pits and visual investigations were unsuccessful in locating the historic venting system. TRC recommended that if this system were uncovered during the upcoming construction activities, it should be preserved. (To date, the historic venting system has not been uncovered and, therefore, will not be included in the proposed LFG venting design).

3.3.3 2005 Activities and Landfill Gas Control Systems

Consistent with information presented in the 1999 EAS, the 2005 Engineering Report indicated that because of the age of the waste materials at the Site, which was approaching 40 to 50 years, the LFG generation rate is declining (TRC 2005a,b). Conceptual design of the LFG control system was also to remain similar to that proposed in 1999, noting that building slab areas would contain active venting systems, and the golf course and utilities would contain passive systems where necessary.

A number of monitoring activities were included in this report, along with a revised description of the LFG control system.

Landfill Gas Monitoring

Monitoring Wells. The 2005 Engineering Report (TRC 2005 a) provided the following information on monitoring wells:

- TRC continued to monitor all perimeter gas monitoring wells and off-site gas monitoring points biweekly for methane and oxygen per the 2002 Permit. Monitoring points were repaired and maintained as needed

- Elevated levels continued to be found in three monitoring points on Buttrick Avenue between Randall and Schley Avenues after construction of the vent trench, thus suggesting the presence of an off-site methane source.

- From October 2002 to February 2005, two off-site semi-permanent monitoring points (9 and 10) along Buttrick Avenue exceeded 25% of the LEL. Additionally, MW-0, located near the trench and within the Ferry Point Park property, routinely showed elevated levels.

Piezometers and Piezometer Monitoring

Groundwater was monitored every month at the piezometers as per the 2002 Permit requirements. TRC generated a construction-phase Response Action Plan to define response to conditions where groundwater in one or more groundwater level-monitoring piezometer was beneath the base of the trench elevation.

Landfill Gas Control Systems

The 2005 Engineering Report proposed the following components of the LFG control system, which were consistent with, but more detailed than those described in the 1999 EAS.

- Sub-slab venting components were primarily described as active systems beneath buildings and on-site structures. Several venting systems were recommended for further evaluation and the design was to be finalized based on building structure and location.

- The irrigation lake and ponds were proposed to have impermeable membrane liner systems with a gas-venting layer for passive gas collection and venting.

- Underground site utilities were proposed to have soil plugs and conduit seals for piping and conduits.

- The movement of methane through turf grass and the vegetative soil layer was anticipated to have limited and isolated impacts. If specific greens required venting for the maintenance of turf health, an impermeable barrier with a permeable gas venting layer was recommended beneath the vegetative soil.

- The 2005 Engineering Report did not propose LFG venting systems in open space areas, except for specific turf grass areas as described above.

3.3.4 Post-2005 Monitoring at and around the Perimeter Vent Trench

Landfill Gas Monitoring

Methane Monitoring. Permanent monitoring wells and semi-permanent points have been monitored biweekly in accordance with the 2005 Permit. Since issuance of the 2005 Permit, several exceedences have occurred at MW-0, with sporadic exceedences at MW-14 and E3R.

Piezometers and Piezometer Monitoring

Monthly monitoring of groundwater depth was completed in each piezometer in accordance with Special Condition 30 of the 2005 Permit. Sustained, low groundwater levels have not been observed since 2005.

Vent Trench

Routine inspections and maintenance ensured continued vent trench functionality. A review of historic vent trench data by TRC (TRC 2009a) concluded that the LFG vent trench was providing an effective perimeter control based on the following:

- In the year following installation of the vent trench, methane levels near the trench decreased significantly in most monitoring wells.

- Methane levels generally increased in 2005, likely due to installation of new monitoring points and repaired wells.

3.3.5 2007 through 2009 Activities

Methane Monitoring Reports (2007 through 2009)

Monthly methane monitoring reports were prepared by TRC from 2007 through September 2009. The monitoring routine included noting weather conditions; measuring methane and oxygen levels from both on-site methane monitoring wells and off-site semi-permanent methane monitoring points; and measuring groundwater levels in piezometers adjacent to the vent trench.

Pre-Extraction Pilot Test Subsurface Investigation (2008/2009)

In 2008 and 2009, TRC performed a subsurface investigation through the installation of borings and LFG probes and tested for soil gas with slam bars (sampling rods with slotted points) in order to supplement existing site data and assess the current nature and extent of LFG at the Ferry Point site (TRC 2009c).

Data obtained from TRC's investigation include:

- MSW thickness ranged from 4 to 47 feet. Saturated MSW thickness ranged from 0 to 24 feet.
- Methane gas concentrations observed in 16 of the western perimeter slam bar monitoring locations were less than the 25% LEL regulatory level for landfill gas control in on- and off-site structures, and less than the 100% LEL regulatory level at or beyond the property boundary (New York Code of Rules and Regulations [NYCRR]360-2.15(e) and.360-2.15(k)(4)).
- Combustible gas concentrations observed in the shallow slam bar monitoring locations were lower than those present in the deeper soil borings. Only one slam bar monitoring point exceeded 0.5% methane by volume.
- In 39 of 54 borings within the golf course interior, combustible gas was measured at 25% LEL or higher.
- Permeability field testing revealed that the average permeability of the existing shaping layer material was on the order of 10^{-5} inches per second (in/sec). Non-domestic MSW (typically soil with some construction and demolition debris) and domestic MSW had average permeabilities of 10^{-2} in/sec and 10^{-3} in/sec, respectively.

Extraction Pilot Test

TRC performed an extraction pilot test in 2009 with the intention of gaining a better understanding of on-site gas generation. NYSDEC's Air Guide 1 air toxics assessment procedure was used as the testing protocol and a comparison of emissions from the test to short-term guideline concentrations (SGCs) was made to confirm that SGCs were not exceeded. Details of the pilot extraction test are included in the Pre-Design Landfill Gas Investigation Scope of Work (SOW) and

the Amendment to Volume No. 1 of the Permit application dated November 25, 2009 (TRC 2009a).

Data from the test reported by TRC include the following:

- During static conditions, pressures measured in the LFG were less than 0.02 to 0.08 inches of water column (in-wc) gauge.
- During passive venting of the extraction well, monitoring probes showed positive pressure readings from 0.04 to 0.30 in-wc gauge.
- LFG samples collected from the extraction well produced methane concentrations of approximately 61% by volume. Methane concentrations measured with pressure probes exceeded LELs at several locations.
- Data from the active blower test were as follows:
  - An 85 standard cubic feet per minute flow rate was shown capable of evacuating pore volume and creating negative pressure over a 150 foot test radius.
  - Atmospheric infiltration was noted in several probes when the induced pressure vacuum was increased to 14 to 16 in-wc.

Shortcomings of the pilot test performed by TRC have been evaluated by EEEPC and are discussed in Section 4.2.1.1.

Landfill Gas Control Systems

Based on TRC's interpretation of the 2009 subsurface investigation and extraction pilot tests, they proposed a low-flow active LFG control system for "the golf course area of the site". The rationale for this design was that passive venting was not expected to achieve safe levels of methane in the subsurface in time for the anticipated opening of the golf course. The proposal for active systems for sub-slab venting was similar to those previously proposed by TRC in the 2005 Engineering Report (2005a). The irrigation pond venting system was proposed for incorporation into the active system.

However, the TRC report did state that operating an active LFG extraction at high flow rates could cause dangerous atmospheric infiltration, pulling air underground from the surface and potentially causing underground fires or explosions.

In this report, TRC proposed the following system components:

- Vertical LFG collection wells, screened in the MSW layer, would consist of horizontal collection systems, including perforated collection pipes placed underneath an impermeable liner below the green and tee areas and the clubhouse parking lot asphalt; horizontal collection pits/pipes under the comfort station and maintenance facility; and gas venting geocomposite and perforated collection pipe system associated with the lined irrigation pond.

- Forty control zones of extraction wells and green and tee horizontal collection piping would be established, divided to accommodate Site conditions (topography and "other features such as the box culvert") and to allow "flexible operations." Wells and piping in each zone would be connected through a network of header pipes to a vent flare with an in-line fan. Flexible operation would be enabled by a blanked flange in each vent point. Subsurface collection piping network would be incorporated into the irrigation pond and parking lot with piping connected to a central discharge location. Sub-slab active depressurization systems would be installed for the comfort station and maintenance facility and would include automated methane monitoring and alarm systems.

- A probe network for monitoring LFG control system performance and LFG across the Site and along the boundary would be installed.

4 Evaluation of Existing LFG Data and LFG Exposure Assessment

Based on the 2008/2009 TRC investigations and proposal for a Site-wide active LFG extraction systems for all open space areas of the site, it was decided that a re-evaluation of LFG data be performed to ensure the appropriate mitigation systems were selected. An exposure assessment and additional emissions modeling effort was also undertaken to provide additional Site data.

4.1 Additional Data Collection

The following data was gathered through monitoring, investigations, and computer modeling to provide additional information regarding LFG conditions at the Site.

4.1.1 Methane Monitoring Reports (2009 through present)

Monthly methane monitoring reports are prepared by American Environmental Services, Inc. (AES). From October 2009 to May 17 2012, AES monitored:

- Ambient weather conditions
- Methane, oxygen, hydrogen sulfide, and carbon monoxide levels in on-site methane monitoring wells, perimeter methane monitoring wells, and off-site semi-permanent methane monitoring points
- Groundwater levels in piezometers adjacent to the vent trench

As of May 23, 2012, AES began monitoring the expanded parameters requested by NYSDEC in their January 3, 2011 letter. The following parameters are now being monitoring in addition to those above:

- Well pressure
- Well temperature
- Ambient relative humidity

4.1.2 Walsh Review of Site Investigations (2010)

Walsh reviewed TRC's subsurface investigation and extraction test in May and August of 2010 (Walsh 2010a, b). The review reported that the results of the TRC testing were consistent and expected based on the age and character of the landfill. Due to low pressure readings throughout the Site and methane levels below the LEL in most shallow monitoring points, Walsh concluded that a site-wide

active venting system would not be necessary to achieve safe conditions for golf course users or workers.

Based on the Walsh reviews and as requested by NYSDEC (NYSDEC 2010), TRC completed a flux box sampling in October 2010 in order to more accurately determine surface methane emission rates at the Site. The results of the flux box sampling were reported by TRC as an insert to the Supplement to the 2009 Engineering Report.

4.1.3 TRC Flux Box Testing (2010)

The TRC flux box and ambient air sampling event in October 2010, in accordance with the sampling plan submitted to NYSDEC, is included as Appendix B of EEEPC's November 2010 Landfill Gas Report. A flux box is a container of known volume which is used at the surface of the landfill for the measurement of LFG emissions and concentrations. A total of 30 test locations were sampled: 19 in the area of the golf course and associated facilities, three each in the waterfront and community parks, and five at the LFG vent trench. Results of this sampling were as follows:

- Methane was not detected in any of the flux box samples.
- No sulfur compounds were detected above the detection limit in any flux box or ambient air sample.
- Five compounds were found at concentrations higher than the NYSDEC Annual Guideline Concentrations (AGCs): benzene, carbon tetrachloride, methylene chloride, tetrachloroethylene, and trichloroethylene. Due to the concentrations found in the ambient air samples, it was concluded that these compounds were likely from off-site urban environment sources. Three of the five compounds warranted further evaluation using the NYSDEC Area Source Method. The results indicated on-site annual impacts would be less than 1.5% of the AGC, and off-site impacts less than 0.25% of the AGC for tetrachloroethylene, trichloroethylene, and methylene chloride.

4.1.4 Community Park Vent Monitoring (2011)

In June 2011, EEEPC conducted a monitoring event of the twelve (12) passive LFG vents previously installed at Community Park (EEEPC 2011b). Vent testing was used to identify and quantify the emission rates of LFG constituents from the vents. Air samples were collected from each vent and analyzed to determine the concentration of methane, carbon dioxide (CO_2), oxygen (O_2), nitrogen (N_2), volatile organic compounds (VOCs), and sulfur compounds. The LFG flow rate for each vent pipe was also measured.

The field data and analytical results were used to estimate hourly and annual emission rates of chemical constituents from the LFG vents. Modeled ambient air concentrations resulting from the estimated emission rates were found to be below NYSDEC short-term and annual guideline concentrations (SGCs/AGCs).

4.1.5 LFG Fingerprinting Investigation (2011)

In an effort to supplement existing data regarding the source of offsite methane detections in the vicinity of Buttrick/Schley avenues, EEEPC conducted an investigation in June 2011, in accordance with a May 2011 Fingerprinting Protocol (EEEPC 2011b).

The following wells/probes were included in the investigation:

- Offsite monitoring points 9 and 10, located on Buttrick Avenue between Randall and Schley avenues;
- Perimeter monitoring well, MW-0, located in the vicinity of Buttrick Avenue; and
- Onsite monitoring wells MW-13 and MW-19.

The fingerprinting protocol recommended that methane measurement be conducted in interior monitoring well MW-4R. However, this well was previously decommissioned and as a result, measurement was conducted in well, MW-13, which is also an onsite monitoring well.

Each location was purged according to procedures outlined in the protocol and then monitored for methane concentration. None of the locations yielded methane concentrations sufficient for isotopic gas analysis, a minimum of 1% methane by volume. As a result, LFG samples could not be collected for isotopic fingerprinting analyses.

4.1.6 Landfill Gas Generation Modeling

Using LandGEM Model Version 3.02, EEEPC (2010) modeled emission rates for the Site in order to compare to the flux box sampling and previous emission rates estimated by TRC in 1999.

The LandGEM model generates emission estimates during landfill operation and for the years following closure. For use in the model, the waste acceptance rate at the site and the years of waste acceptance were based on site characteristics and historical data. Conservative Clean Air Act (CAA) municipal solid waste landfill defaults were used for the remaining input parameters.

- Years of waste acceptance: 1940 to 1959
- Annual waste acceptance rate: 319,566 megagrams per year (Mg/yr) assumed to be equal from 1940 to 1959
- Methane generation rate: 0.05 yr^{-1}

- Potential methane generation capacity: 170 cubic meters per megagram (m^3/Mg)

- Methane content: 50% by volume.

LandGEM generated the following results, predicting methane emissions from the start of waste acceptance in 1940 through the year 2040:

- The 1999 model year emissions rate was calculated to be 3,268 Mg/yr, equivalent to 0.00003 cfm per square foot (SF) a rate similar to the 1999 TRC estimate of 0.00004 cfm/SF calculated using EPA Method AP-42.

- For the model year 2010, the results yielded a methane emission rate of 1,885 Mg/yr, or 2,078 tons per year (tons/yr) in 2010. This is equivalent to an emission rate of 0.00002 cfm/SF or slightly less than 1 cfm/acre.

- LandGEM also projected methane generation calculations up to 30 years into the future, projecting that by 2040 emissions would be reduced to 25% of current day emissions (420 Mg/yr, approximately 0.000005 cfm/SF). Overall, methane generation shows a consistent decrease over time.

- The emission rate projected by LandGEM in 2010 is just a fraction of the peak estimated emission rate of 22,970 Mg/yr (0.00023 cfm/SF), predicted for the year 1960.

Like other landfill sites, the rate of LFG production at the Site is affected by waste composition, waste volume, moisture content, age, and landfill geometry. Field measurements have shown that the LFG produced at the Site predominantly contains methane and carbon dioxide, with small amounts of nitrogen, oxygen, water vapor, sulfur, and other contaminants. Some NMOCs, which can also be classified as hazardous air pollutants (HAPs) were reported at much lower quantities.

Section 4.2 presents an assessment of the lateral and vertical extents of LFG within the MSW and the current shaping layers, both in the interior and at and around the perimeter of the Site. Figures 4-1 and 4-2 are conceptual cross sections illustrating the lateral and vertical extents of methane at the Site. Figure 4-3 shows methane concentrations in samples collected within the Site interior, along the Site perimeter, and at off-site locations.

Also included is an assessment of the risk of exposure to LFG both on and at the perimeter of the Site. The exposure assessment includes a comparison of LFG concentrations to applicable New York Codes, Rules, and Regulations (NYCRR) Part 360 standards.

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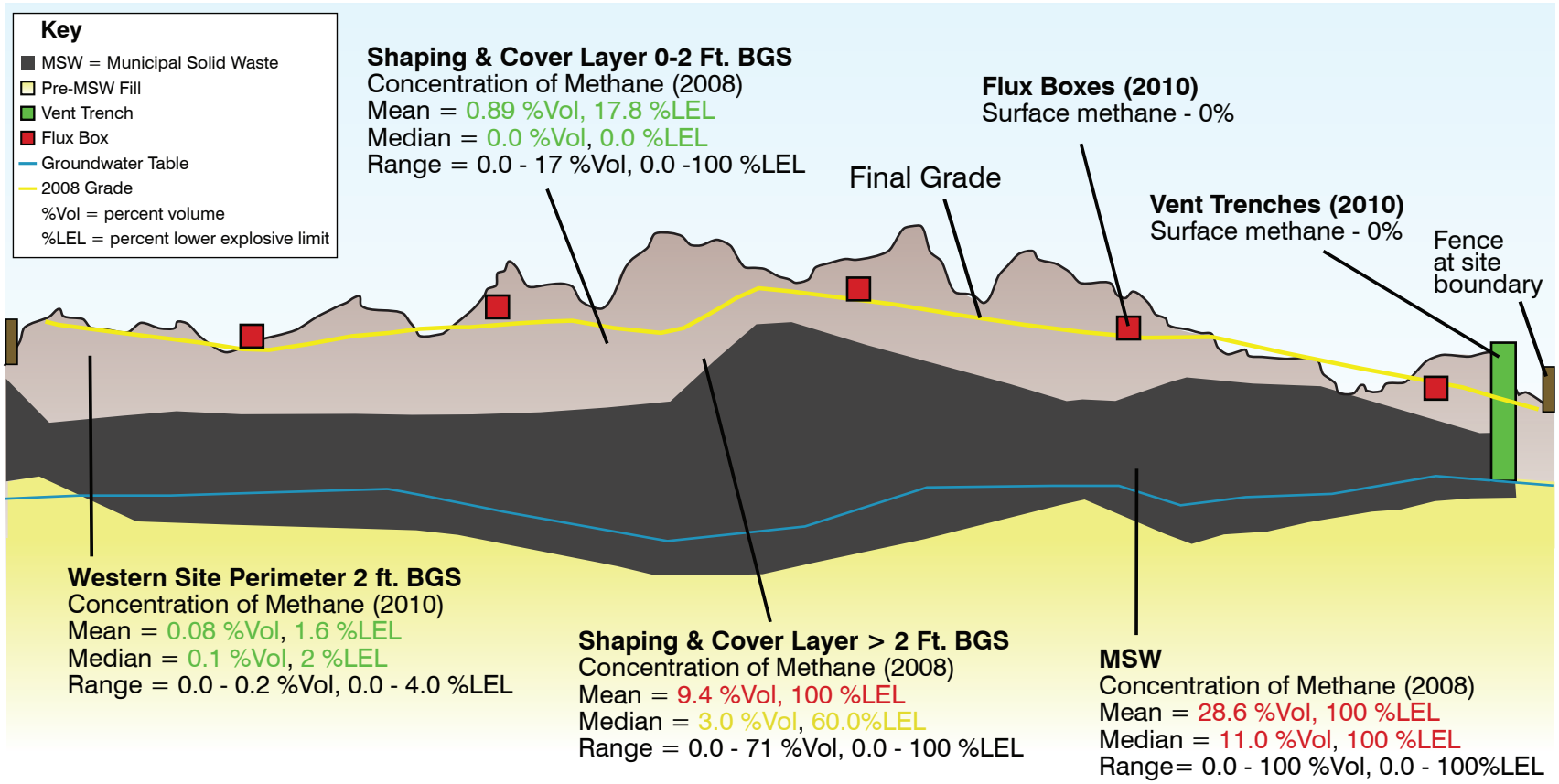

2010 Data are from the E & E Landfill Gas Report dated November 2010

2008-2009 Data are from the TRC Supplemental Landfill Gas Investigation dated February 2009

Figure 4-1 Conceptual Site Cross-Section & Methane Concentrations

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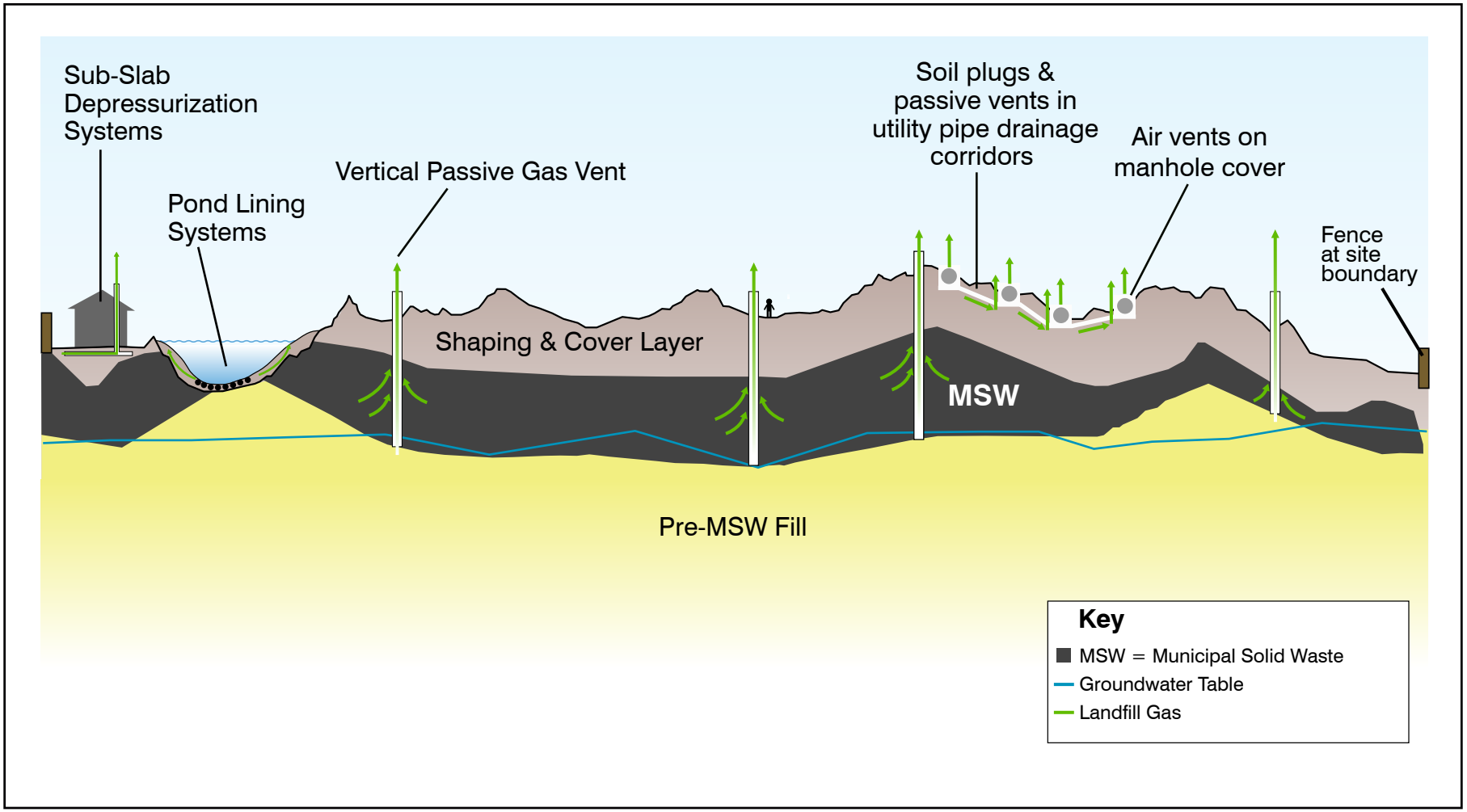

Figure 4-2 Conceptual Site Cross-Section & Landfill Gas Control Systems

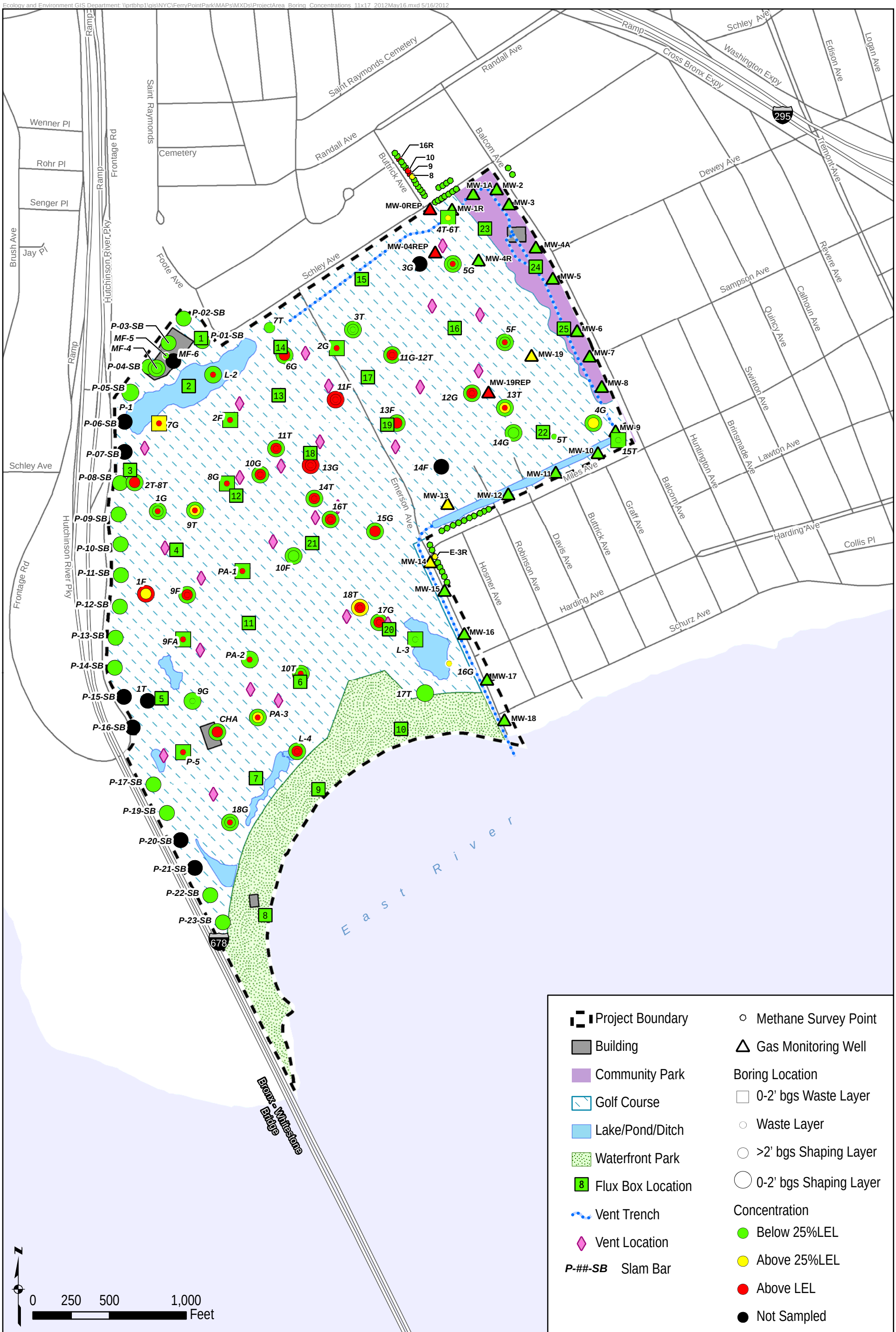

Figure 4-3:
Methane Concentrations in Landfill Gas in Site Interior, Along Site Perimeter, and at Offsite Locations

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Notes: 1. Data are from the TRC 2009 Supplemental Landfill Gas Investigation, the TRC 2009 Pre-Extraction Pilot Test Subsurface Investigation, and the TRC 2010 Emissions and Air Quality Testing.
2. Color coding for monitoring wells and methane survey points based on data from a 2 year period between January 2009 and January 2011. Color coded as yellow if 2 or more meausurements equal or exceed 25% LEL and as red if 2 or more measurements equal or exceed LEL.

4.2 Evaluation of LFG Data

4.2.1 Occurrence of LFG in the MSW Layer

4.2.1.1 Site Interior

Historical LFG Operations Monitoring Data

Since 2000, field methane measurements have been collected from two interior gas wells; MW-4/4R and MW-19 (see Figure 4-4, which shows temporal trends for these monitoring points from 2000 to 2011). Between 2008 and 2010 these measured concentrations had declined from 100% of LEL to non-detect levels.

Due to concerns raised by NYSDEC regarding the condition of the wells, DPR submitted a plan to abandon the existing onsite gas wells and install two replacement gas wells within the Site's interior. Concurrently, DPR requested that gas well MW-0 be abandoned and a replacement gas well installed within the Site's interior. This request was made due to a suspected off-site source(s) of methane in the vicinity of this location (AKRF 2002; TRC 2005a, 2009a). Monitoring at the approved replacement locations began in February 2012. Measured methane concentrations in the three interior replacement gas wells (see Appendix C), is consistent with LFG data from samples collected within the MSW layer at the Site between 2008 and 2009, which indicated methane concentrations above the LEL.

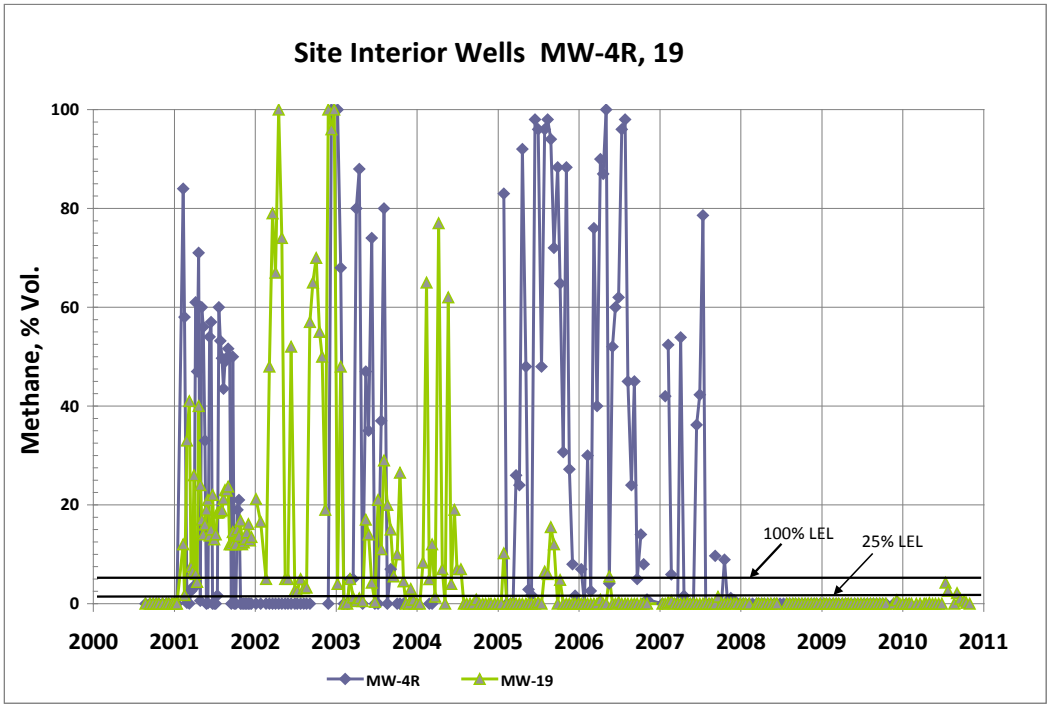

Figure 4-4 Temporal Trends in Methane Concentrations at Site Interior Wells, 2000 to 2011

Recent LFG Investigation Data

Pre-Extraction Subsurface Investigation. Methane concentrations were measured by TRC at on-site borings in 2008 and 2009 (see Figure 3-2 for boring locations).

Methane was measured at concentrations exceeding 25% LEL in 82 of 135 samples and exceeding the LEL in 73 of 135 samples within the MSW layer. Mean and median of the measured methane concentrations were both greater than the LEL. Methane concentrations exceeding 25% LEL were measured in approximately two-thirds of the samples collected from the MSW layer, which supports the premise that methane is not present in specific areas but appears to exist in the MSW layer throughout the interior of the Site. However, measured data in the shaping layer, overlying the MSW layer, and at the surface indicates that concentrations decline rapidly as gas migrates upward toward the surface (see Sections 4.2.2 and 4.2.3).

LFG Extraction Test. TRC utilized EPA Method 2E in their 2009 extraction testing. EPA Method 2E was historically used to determine LFG flow (EPA 2000). This method states that the purpose of short-term testing is to determine the "maximum vacuum that can be applied to wells without infiltration of ambient air into the landfill." In 2003, an article in the *Journal of Air & Waste Management* (Walter 2003) discussed fatal flaws that existed with this method for measuring landfill gas generation rates. In addition, TRC's extraction pilot test diverged from the recommended EPA method, which identifies ambient air intrusion by percent volume of nitrogen. TRC identified ambient air intrusion by percent volume of oxygen. TRC determined the radius of influence based on differential pressures at the surrounding test wells, yet EPA Method 2E specifies determining the radius of influence based on absolute pressures under static and active extraction conditions.

More importantly, because of the atmospheric intrusion noted during the extraction test, the LFG extraction rate used by TRC during the pilot testing would be significantly higher than the actual LFG generation rates within the area of the pilot test. If LFG generation rates for the entire Site are based on the pilot test results, the resulting estimate would grossly over-estimate actual LFG generation.

4.2.1.2 Site Perimeter

Historical LFG Operations Monitoring Data

Since 2000, biweekly field methane measurements have been collected from wells located next to the passive vent trench along the perimeter of the Site (see Figure 3-2). Measured methane concentrations have declined from more than 100% of LEL to non-detect levels with a few exceptions (see Figure 4-5 for temporal trends in selected perimeter wells from 2000 to 2011). This significant decline in methane concentrations in perimeter wells demonstrates the effectiveness of the perimeter trench in venting LFG, along with an overall decline in LFG gen-

eration. However, a number of monitoring locations were missing valves during this time, which may have impacted the data collected.

A suspected offsite source of methane in the vicinity of MW-0 located close to the intersection of Buttrick and Schley Avenues, outside the northeastern corner of the Site) was attributed to elevated methane readings at this location (see Section 4.2.1.3 for further discussion). MW-0 has now been abandoned and relocated within the Site's interior as discussed in Section 4.2.1.1 above.

Gas Monitoring Well Repairs

During their routine inspections of the Site, the IEM noted out that many of the perimeter monitoring wells were missing valves and caps, or otherwise needed repair. DPR performed an inspection of all perimeter wells, and performed the necessary repairs, or installed replacement wells as necessary to bring them into compliance with the current Part 360 Permit.

Monitoring following the repairs began in February 2012 (see Figure 4-6 for temporal trends in selected perimeter wells. The new bi-weekly data from the site perimeter wells shows that methane concentrations remained consistent with concentrations measured at these wells between 2008 and 2011 (see Appendix C for methane monitoring data).

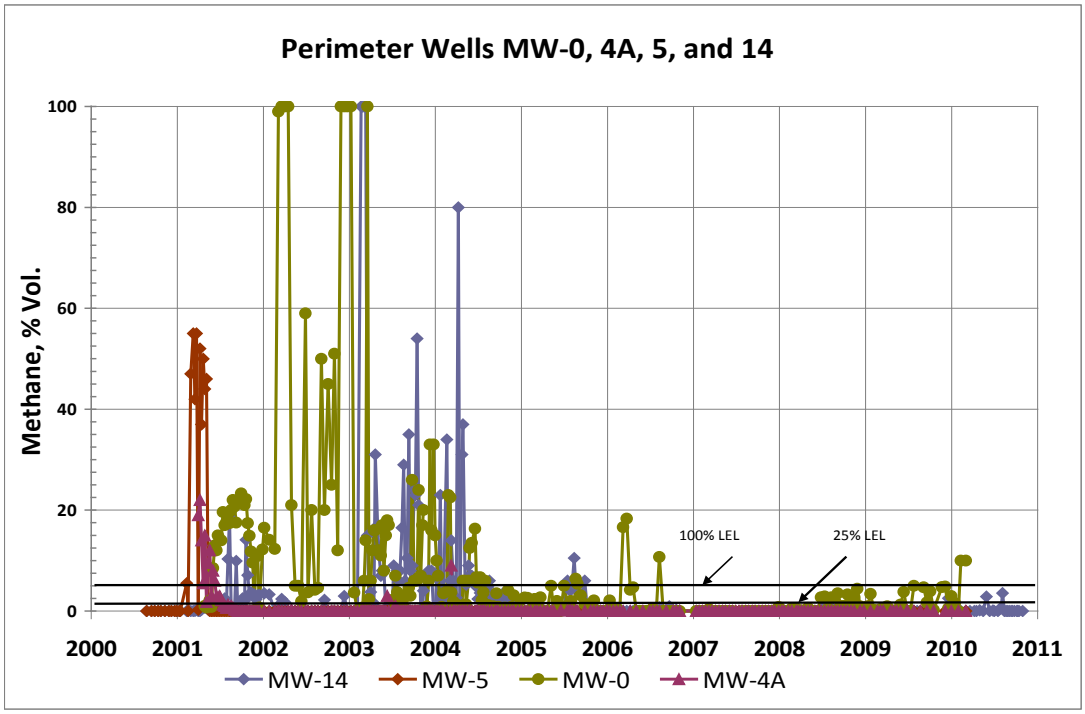

Figure 4-5 Temporal Trends in Methane Concentrations in Site Perimeter Wells, 2000 to 2011

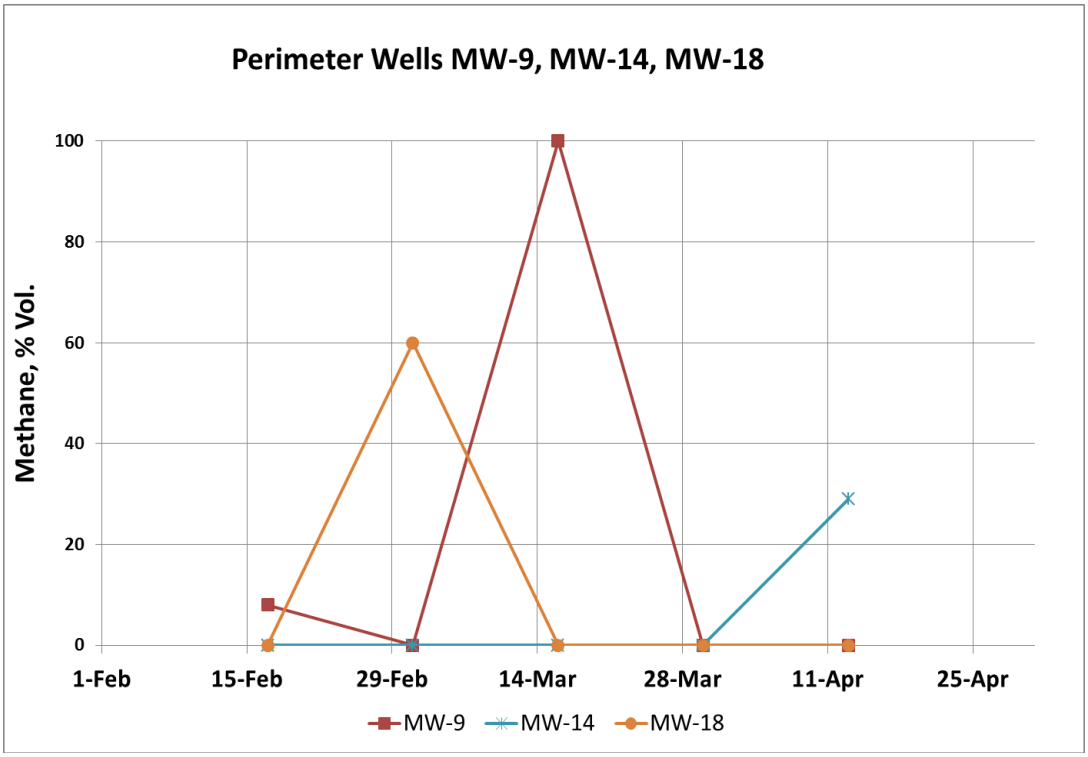

Figure 4-6 Temporal Trends in Methane Concentrations in Site Perimeter Wells, Biweekly Sampling Events 2012

The TRC 2008 and 2009 investigations (TRC 2009c) did not measure methane in the MSW along the site perimeter.

Recent Community Park Vent Data

Sampling was performed at 12 vents within Community Park in June 2011, using the procedures established in the *Landfill Gas Vents Sampling and Analysis Protocol*,(EEEPC 2011c). The protocol summarized the procedures used to identify and estimate the emission rates of air pollutants as well as procedures to conduct an air quality model analysis to identify and compare potential impacts associated with these emissions. The protocol was approved as noted by NYSDEC on March 30, 2011. The June 2011 data reported no measurable gas flow in the Community Park vents. The presence of methane was detected in only 3 of the 12 vents sampled, with detections in the three vents ranging from 1.5 to 7.3% by volume (7.5% LEL to >100%LEL). In the 9 remaining vents, concentrations were below laboratory reporting limits (EEEPC 2011b).

4.2.1.3 Off-site Areas on Schley, Buttrick, Balcom, and Emerson Avenues

Historical LFG Operations Monitoring Data

Since the early 2000s, field methane measurements have been collected from probes, located on Schley, Buttrick, Balcom, Miles, and Emerson avenues (see Figure 3-2). Measured methane concentrations have been lower than the LEL in

the Schley, Balcom, Miles, and Emerson Avenue probes since 2002, indicating absence of significant methane at these off-site locations.

Methane concentrations in the probes on Buttrick Avenue, however, have been higher than the LEL in several probes (see Figures 4-7 and 4-8). The presence of elevated methane levels in these probes indicates an off-site source of methane, separate from landfill activities at the Site. This is further discussed below under the heading "Gas Monitoring Well Repairs."

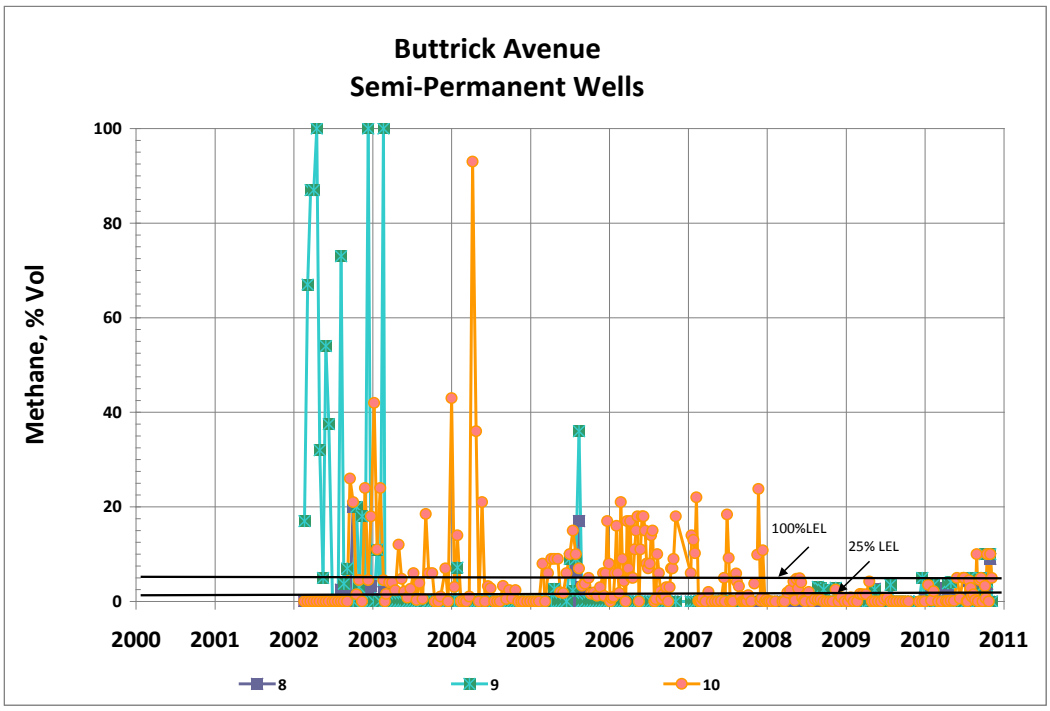

Figure 4-7 Temporal Trends in Methane Concentrations in Off-site Probes on Buttrick Avenue, 2000 to 2011

Gas Monitoring Well Repairs

As discussed in Section 4.2.1.2, off-site monitoring locations were also subject to repairs based on the IEM's routine inspections. DPR has performed the necessary repairs, or installed replacement wells as appropriate for the majority of monitoring locations.

Monitoring following these repairs began in February 2012 (see Figure 4-8). The new bi-weekly data showed that methane concentrations remained consistent with concentrations measured at these wells between 2008 and 2011.

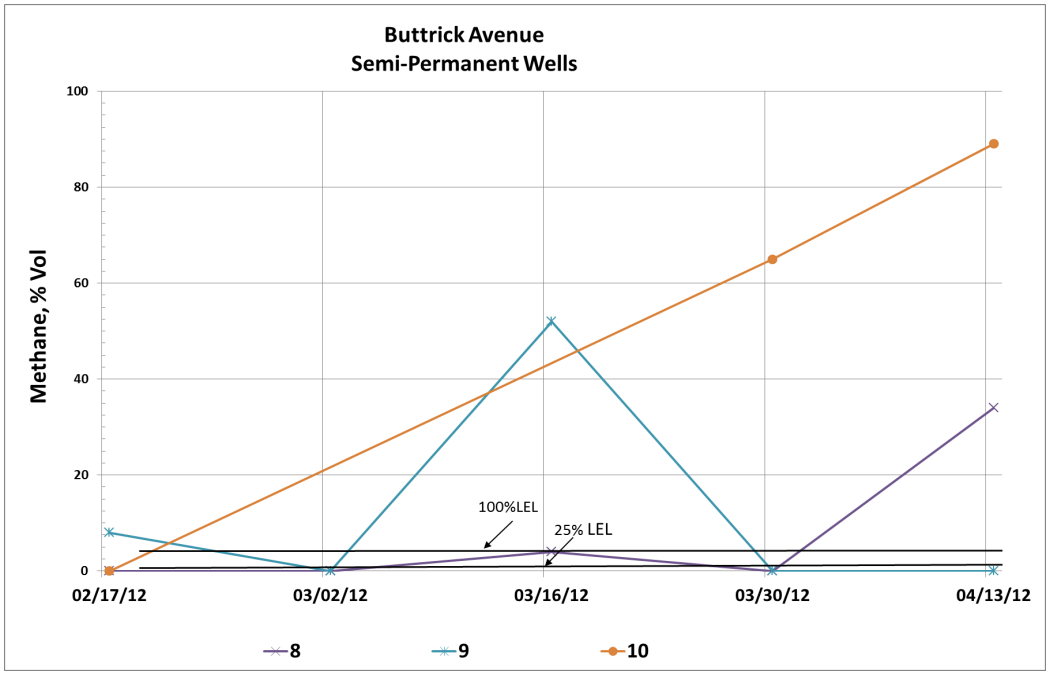

Figure 4-8 Temporal Trends in Methane Concentrations in Off-site Probes on Buttrick Avenue, Biweekly Sampling Events 2012

The following findings from previous investigations/LFG monitoring provide evidence for the presence of an offsite source of methane in the Buttrick Avenue area:

1. The February 2002 AKRF Methane Monitoring Study in which two test pits were excavated in areas of elevated methane detections along Buttrick Avenue in September 2001 identified presence of garbage at this location.
   a. According to the report: "*Garbage was identified in the material excavated and included wood, paper, cloth, metal cans, plastic bottles, glass, ceramic, asphalt, foam, and shoe soles*".

2. The 2002 AKRF study also confirmed the presence of soils rich in organic material, consistent with the reported presence of historic marshlands in this area.
   a. To confirm the presence of historic marshlands, soil samples from the excavations from the test pits in this area were sent for laboratory analysis and AKRF reported that "the laboratory results indicate the soils are rich in organic material". These results support the presence of a former marsh, which was likely to contain organic-rich sediments.

3. During the sampling conducted following the installation of the perimeter vent trench, AKRF concluded the following in their 2002 study:
   a. *"because there has been little change in the elevated methane levels on Buttrick Avenue since the installation of the landfill gas venting trench, garbage and organic rich materials were found in the test pits excavated*

in this area, and the area is located over a filled marshy area, the source of methane on Buttrick Avenue is offsite".

4. Further, as discussed in the TRC 2005 and 2009 engineering reports (TRC 2005a, 2009a), this area was a former tidal marsh subject to potential filling with MSW prior to 1945. According to TRC, organic-rich marsh deposits and fill possibly containing MSW are the likely sources of methane in this area. (Figure 3-1 shows the approximate MSW fill progression at the Site and surrounding historic waterbodies and marshlands.)

In the TRC 2008 and 2009 investigations (TRC 2009c), samples for methane measurement were not collected at off-site locations.

4.2.2 Occurrence of LFG in the Shaping Layer

4.2.2.1 Site Interior

Methane concentrations were measured by TRC in the shaping layer at on-site borings drilled in 2008 and 2009 (see Figure 3-2). Samples were collected from within the top 2 feet of the shaping layer and from 2 to 6 feet BGS, also within the shaping layer (TRC 2009c).

Methane concentrations observed in the shaping layer were lower than those in the underlying MSW layer (see Figure 4-3). More importantly, methane concentrations attenuated from the bottom to the top of the shaping layer; concentrations in the top 2 feet are significantly lower than those measured from 2 to 6 feet BGS.

The mean and median values for samples within the top 2 feet of shaping layer were 17.84% LEL and 0.0% LEL, respectively. Samples collected between 2 and 6 feet BGS resulted in a mean and median of 100% LEL and 60% LEL, respectively.

4.2.2.2 Site Perimeter

During the 2008 and 2009 investigation, TRC measured methane concentrations in the shaping layer in shallow, temporary monitoring points installed along the western perimeter of the Site (see Figure 3-2). Samples were collected from within the top 2 feet of shaping material (TRC 2009c).

The mean and median values of methane concentrations in these samples were 1.6% LEL and 2% LEL, respectively. The absence of methane concentrations above the LEL in these perimeter monitoring points demonstrates the rapid attenuation that occurs in the westward direction. These findings indicate that mitigation measures are not deemed necessary along the western perimeter of the Site.

4.2.3 Occurrence of LFG at the Surface

At 30 locations, flux box and ambient air testing was conducted by TRC in 2010, for field measurements of methane and laboratory analysis of VOCs (see Figure 3-2). Monitoring and analysis was performed using the procedures established in the "Flux Chamber Testing Program Work Plan", included as Appendix B to the

Ferry Point Landfill Gas Report (EEEPC 2010). The work plan summarized the flux chamber sampling and analysis techniques that would be used to determine surface emission rates from the landfill. The results of the analysis were used to develop total hourly and annual emission rates. These rates were used for the analysis of potential impacts to on site and off site receptors for methane and hazardous air pollutants (HAPs).

Methane was not detected in field measurements in any of the sampling locations (EEEPC 2010). The absence of methane in the flux box samples demonstrates a rapid attenuation of methane occurring in the upward direction from the MSW layer through the shaping layer and to the surface. It provides further evidence that methane is not present at measurable rates at the surface of the Site.

Low levels of select VOCs were reported in some flux box samples. However, the concentrations were either below NYSDEC acceptable standards or similar to background concentrations reported in ambient air samples (EEEPC 2010).

4.3 LFG Emission Rates

4.3.1 Methane Emission Rates

The surface emission rate of methane at the Site was estimated using LandGEM Version 3.02 (EEEPC 2010 [see Appendix B]). Because the LandGEM model is intended to be used to design gas collection systems, it typically overpredicts LFG generation. CAA defaults were used in the model, which also yields conservative emission estimates.

As discussed in Section 4.1.6 the LandGEM model estimated a 2010 methane emission rate of 1,885 Mg/yr (or 2,078 tons/yr). This corresponds to an average hourly emission rate of 0.237 tons/hr (based on 24 hours/day and 365 days/year). The model predicts substantial reductions in each subsequent year, ranging from a predicted rate of 2,078 tons/yr in 2010 to a rate of 463 tons/yr in 2040. This represents an approximate 75% decrease in methane production over time.

For comparison, in 1999, TRC estimated a methane emission rate of 0.00004 cfm/SF, calculated using the EPA Method AP-42. The LandGEM modeling performed in 2010 calculated 1999 model year emissions rate equivalent to 0.00003 cfm/SF, which is nearly the same value as the TRC AP-42 estimate.

4.3.2 HAP and Other VOC Emission Rates

Flux Box Measurements

The emission rates of HAPs and other reported VOCs in the LFG from the Site were estimated using the average concentration of each compound in the flux box samples. The average concentration was calculated only from samples with compound concentrations over the detection limit. This methodology produces a very conservative (i.e., biased high) emission rate as it ignores samples with results below detection limits. The assumptions and the approach used to model the

emission rate are presented in EEEPC's Landfill Gas Report, Ferry Point (November 2010).

NYSDEC's guidelines for estimating annual impacts, when applied to the calculated emission rates, resulted in ambient air concentrations below NYSDEC's acceptable thresholds (EEEPC 2010).

Community Park Vent Measurements

The emission rates of VOCs and sulfur compounds in the community park vents were estimated by multiplying an assumed vent flow rate (1 cm^3/sec was used because no measurable flow was observed) and reported concentration of each constituent. Emission rates were below levels that would result in an adverse impact to public receptors in the vicinity of the vents (EEEPC 2011b).

4.4 Exposure Assessment

4.4.1 Criteria

Methane

NYCRR Part 360 criteria, which requires that combustible gas concentrations not exceed 25% of the LEL in structures on-site and off-site and not exceed the LEL at or beyond the Site boundary, were used for comparison with methane concentrations measured within and along the perimeter of the Site.

HAPs and Other VOCs

NYSDEC SGCs and AGCs are screening-level values used to determine the appropriate environmental rating of air pollutant emissions. SGCs are chosen to protect the general population from adverse acute one-hour exposures; AGCs are chosen to protect against adverse chronic exposure and are based upon the most conservative carcinogenic or non-carcinogenic annual exposure limit. SGCs and AGCs are used to assess impacts on ambient air caused by an emission source.

4.4.2 Comparison of Flux Box & Community Park Testing Results with Exposure Criteria

Methane

Methane was not detected in the flux box samples collected within the interior of the Site, indicating that methane is not emitted at the ground surface at measurable rates. Absence of methane at the surface indicates that NYCRR Part 360 criteria are met.

Also both mean and median concentrations of methane in the top 2 feet of the shaping layer within the interior of the Site did not exceed 25% LEL, as would be required by NYCRR Part 360 for on and off-site structures.

Methane concentrations in the perimeter wells, except in MW-0, located along the existing vent trench, abutting Emerson, Miles, Balcom, and Schley avenues were below the LEL, as required by NYCRR Part 360. Methane concentrations were

also below the NYCRR Part 360 criteria for samples collected along the western perimeter.

Methane concentrations in the probes on Buttrick Avenue, located close to MW-0, have been higher than 100% LEL. As discussed in Section 4.2.1.3, the presence of elevated methane levels in these probes along with the nearby organic-rich marshland and pre-1945 use of the area for MSW fill indicates an off-site source of methane that likely contributes to elevated levels at MW-0.

VOCs

Flux Box Measurements. Of the four VOCs detected in flux box samples in the 2009 TRC investigation, benzene was reported below the concentrations found in the ambient samples, which are representative of background concentrations. Three other VOCs— methylene chloride, trichloroethylene, and tetrachloroethylene—concentrations in flux box samples were roughly equivalent to and/or slightly greater than those in the ambient samples (EEEPC 2010). Potential impacts on ambient air as a result of emission of these VOCs at the Site were assessed by EEEPC, and the results indicated no exceedences of NYSDEC standards (EEEPC 2010).

Carbon tetrachloride was detected in an ambient sample but not in the flux box sample. Because of its reported widespread use in operations within urban areas and its absence in Site flux box samples, the Site is not considered to be a source of carbon tetrachloride in ambient air.

Community Park Vent Measurements. Recent testing indicates that the VOC emissions from the 12 community park vents would result in ambient air concentrations that are well below NYSDEC standards, indicating an absence of impacts above public exposure thresholds in the vicinity of the vents (EEEPC 2011b).

In an email dated July 1, 2011, NYSDEC confirmed their acceptance of these tests and indicated that emissions from the vents pose no health impact to the public using the park.

4.5 Conclusions

The following conclusions were drawn from the evaluation of the LFG data collected and modeling conducted to date at the Site:

- The reported data indicates the presence of methane within the MSW, as expected from a landfill of its age. Methane levels at the surface were below regulatory limits for structures within the interior of the Site (below 25% LEL). Methane levels in the subsurface were below regulatory limits at the perimeter of the Site (below LEL).

- At the current landfill surface, concentrations of other LFG compounds, primarily VOCs, were either below their acceptable thresholds or similar to background levels measured in ambient air samples.

- Modeled ambient air concentrations using VOC concentrations reported in the flux box samples demonstrated no reportable impact of VOCs on ambient air at the Site.

- The LandGEM model, which predicts a conservative estimate of LFG generation rates, shows that methane emissions from Ferry Point do not contribute significantly to greenhouse gas (GHG) emissions. The estimated 2010 annual methane emissions from Ferry Point are approximately 0.048 million tons of CO_2-equivalent emissions.

- No measurable LFG flow was measured in recently tested Community Park Vents.

- Recent testing of the vents at the Community Park indicate that emissions for VOCs and sulfur compounds from the LFG vents that would cause short-term and annual impacts that are well below the SGCs and AGCs. The impacts are several orders of magnitude less than these guideline concentrations, which is indicative of the limited emissions from the LFG that is present in the subsurface.

- Subsurface MSW and historic marshlands in the Buttrick Avenue area have been identified as the likely offsite source(s) of elevated methane measurements in LFG probes in this area.

LFG does not exceed regulatory and health-based thresholds at the surface, which indicates that LFG generation within the waste occurs at low levels, consistent with the age of the landfill. Therefore, active LFG extraction systems at the Site are not warranted.

However, methane concentrations exceeded the LEL in 73 out of 135 samples collected within the subsurface MSW layer during the 2008/2009 TRC subsurface investigation. Therefore, passive venting systems are proposed for the open areas of the Site. Active depressurization systems are recommended to be placed under building footprints to minimize the potential for LFG to collect underneath structures.

5 Landfill Gas Management Approach

5.1 Summary of LFG Data and Planned LFG Control Measures

5.1.1 Summary of Data

Site Interior

The MSW layer in the interior of the golf course and community park portions of the Site ranges from 4 feet thick to 47 feet. Concentrations of methane, the primary component of LFG, are elevated in the MSW layer, with both mean and median concentrations above the LEL. However, as the LFG migrates upward toward the ground surface through the shaping layer, methane concentrations decline rapidly. Concentrations in samples collected at the surface in flux boxes were below the instrument's detection.

Site Perimeter

Along the northern and eastern perimeters of the Site, where the perimeter vent trench is located, methane concentrations have declined significantly. As described in Section 3.3.4, groundwater levels measured during biweekly piezometer monitoring events have been observed to be above the vent trench bottom depth since 2005. This demonstrates the effectiveness of the vent trench in controlling the migration of LFG in this area. Along the western perimeter of the Site, methane concentrations in the upper section of the shaping layer are below the LEL, thus precluding the need for placing LFG control measures in this area.

5.1.2 Planned LFG Control Measures

A description of the planned LFG control measures is included below and the type of LFG control measures to be installed for each Site feature is presented in Table 1-1 (see Figure 5-1 for a conceptual layout of the LFG control measures).

Site Interior

Methane generation, as shown in the 2010 LandGEM modeling, is currently estimated at approximately 1 cfm/acre or less, a very low rate that correlates well with the 1999 TRC AP-42 modeling. Elevated levels of subsurface methane are expected to decrease over time and, as described in Section 2, methane that exits the landfill via the permeable soil cover into the open atmosphere will quickly diffuse to negligible levels. Moreover, elevated subsurface levels do not result in

unsafe levels at the landfill's surface, as demonstrated by the lack of methane detection in the flux box measurements taken by TRC in October 2010.

In order to provide adequate ventilation to enclosed structures at the site, the migration of LFG into occupied structures or structures where there is an ignition source (such as electrical connections) needs to be prevented or minimized (to at or below the regulatory-prescribed levels). Thus, all on-site buildings will have an active sub-slab depressurization (SSD) system (see Section 5.3).

Although the data do not indicate the need for LFG control within the site interior (other than within enclosed structures), methane concentrations exceeded the LEL in 73 out of 135 samples within the MSW layer during the 2008/2009 TRC subsurface investigation. Hence, a passive venting system consisting of venting wells screened across the MSW layer will be installed as a precautionary measure (see Figure 5-1 and Appendix A for a layout of the venting system, and Section 5.2 for a design description). Figure 5-1 currently shows the location of passive vent wells within the golf course portion of the Site.

Also, methane was not present in the upper section of the shaping layer above the NYCRR Part 360 limit (25% LEL) for on-site structures. During the recent 2008/2009 TRC investigations, less than 10% of samples collected in the upper 2 feet of the Site subsurface were reported to have concentrations exceeding this limit. None of these sample locations, where methane was reported above the 25% LEL, were below the planned footprint of proposed onsite structures. Conservatively, an SSD system is proposed for installation underneath the footprints of the structures as a precautionary measure to allow the LFG to be directed to and vented at the rooftops. This design will mitigate the threat of exposure to building occupants and preclude explosive conditions. Refer to Figure 5-1 for locations of the planned buildings where a SSD system is planned and Section 5.3 for a design description.

Risk management measures to control LFG under subsurface features, including utility corridors, ponds, and lakes in the interior of the Site are described in Section 5.4.

Site Perimeter

Because passive venting has been effective in reducing methane concentrations along the eastern and northern perimeters of the Site, the existing vent trench will continue to operate in accordance with the existing program requirements outlined in the Part 360 permit (see Figure 5-1).

LFG control along the western perimeter of the Site, where methane concentrations are below the LEL is not planned The East River will provide an effective block to off-site migration of LFG on the south side of the Site.

02:003096.SG12.03\Graphics\Figure 5-1_LFG Control Measures.cdr

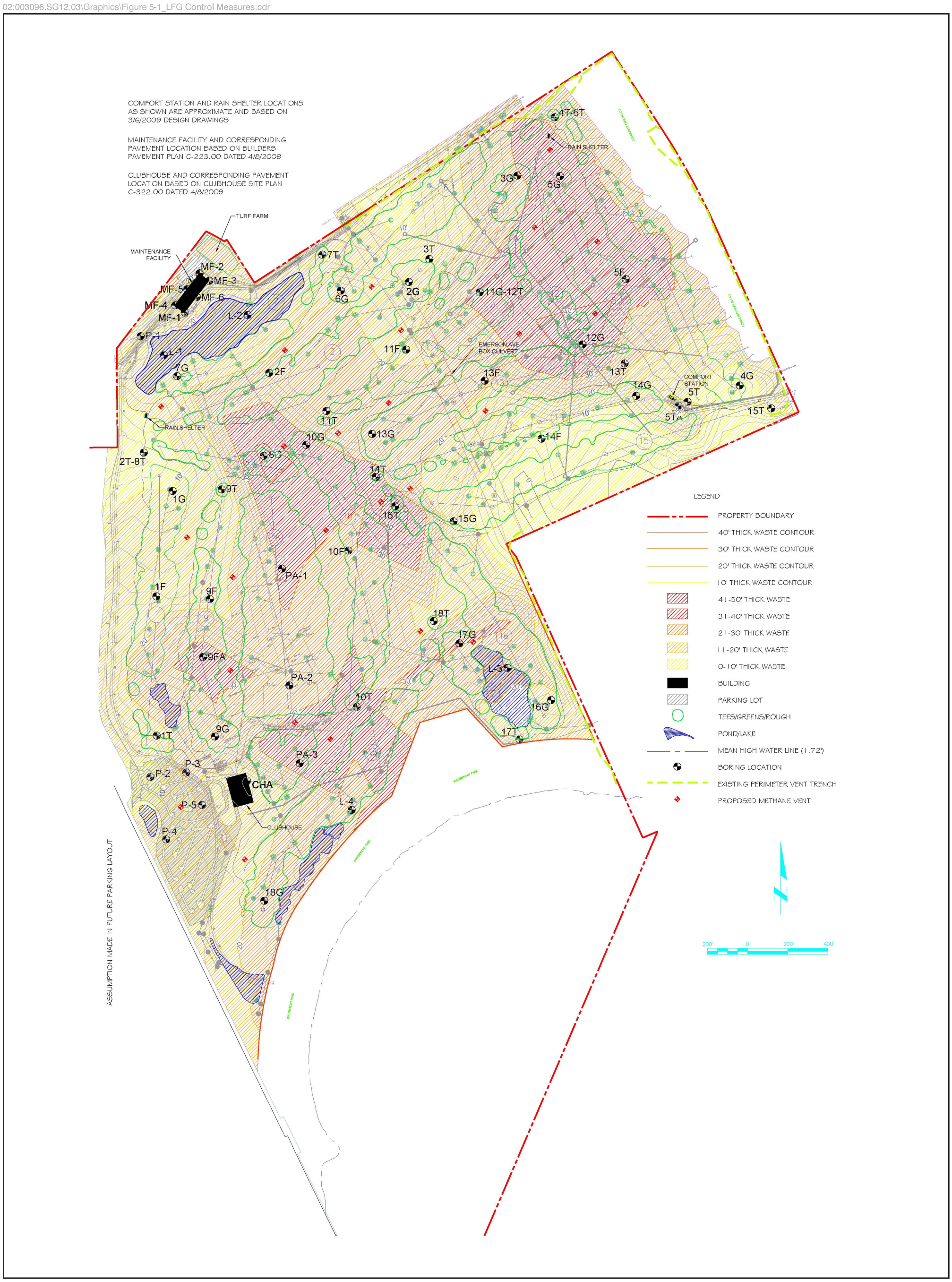

SOURCE: Ecology and Environment Engineering, P.C. 2011

Figure 5-1 Layout of LFG Control Measures

5.2 Passive Vent Well System Design

5.2.1 System Description

EEEPC has prepared a layout of the vertical passive gas vent wells for the golf course (see Figure 5-1 and Appendix A). The number of vent wells and their locations were selected to maximize the LFG removal efficiency while avoiding the golf course playing area using the following criteria, in order of priority:

- Vent wells were first located in areas exhibiting high historical subsurface and shaping layer LFG concentrations (see Figure 4-3).
- The locations were further biased toward areas exhibiting larger waste thicknesses because these areas could generate more LFG.
- The locations were then biased toward areas of higher shaping layer thickness and higher top of MSW elevations because these areas will influence LFG pressure build-up and/or lateral migration of LFG.
- The locations were selected to avoid subsurface utilities and playing areas of the golf course.
- The Site includes a network of vertical vent trenches along the northern and eastern boundaries that capture and release any LFG that laterally migrates towards these Site boundaries.
- The Site design includes a porous sand layer that will diffuse any LFG releasing from any preferential pathway in the shaping layer.
- Subsurface utilities that travel off-site or into/out of occupied structures will have soil/bentonite collars and additional passive vents installed (see Section 5.4).
- Water quality ponds will be lined up to their permanent pool elevations with a low permeability low density polyethylene (LDPE) liner and include passive vent systems. Ponds to be lined and passively vented include: K, L, M, P1, P2, and the irrigation lake. Pond P2 will be lined for its entire volume due to the presence of MSW encountered during excavation.
- The three enclosed buildings (maintenance facility, comfort station, and clubhouse/banquet facility) on the golf course will have active SSD systems with additional venting installed. The maintenance facility and comfort station are shown on the engineering drawings S-202.00, C-221.00/C-222.00, and C-321.00/C-322.00, respectively prepared for the DPR under Contract X.126-209M (TRC 2009b). Community and waterfront parks will have one comfort station each which will also be designed with active SSD systems. The community park is shown on the engineering drawings prepared for the DPR under Contract X.126-208M (TRC 2008), which were also included in the November 2009 Permit Application (TRC 2009a).

Twenty-five stand-alone vertical passive vents and 12 passive vents installed into utility pipe bedding material are planned for the site. There are approximately 190 acres not covered by ponds or buildings, which are vented separately. This equates to a frequency of one vent per 5 acres. It is anticipated that this same venting frequency will be applied to the waterfront park. The community park already has 12 passive vent wells installed, which is a greater frequency than one vent per 5 acres. The community park passive vent design is shown on Drawings H-1.1 through H-1.7 (submitted under separate cover). These drawings show that the stand-alone vertical vents facilitate venting through the aspirometric cowl. The drawings also show a sample port on the side of each vent stack that will facilitate the monitoring of the vented gases.

Passive venting, combined with an LFG generation rate that is more than 50 years past its maximum, the vertical vent trenches and those vents incorporated into utilities, SSD systems, and the pond liner systems will more than adequately vent the LFG such that all emissions and health and safety requirements are met.

These vents will work predominantly via a pressure gradient. The vertical vents will be screened for the entire thickness of the MSW layer and extend to below the lowest known water table. When the LFG pressure in the subsurface is higher than the atmospheric pressure, LFG will be conveyed towards the vent and released through the top of the vent. During periods of equal subsurface and vent pipe pressure, a smaller amount of LFG will be released via diffusion as the subsurface gas concentrations in or near the vent pipe seek to equalize with the atmospheric concentrations. Radii of Influence (ROIs) are calculated for active venting systems and do not apply to the performance of passive venting systems. Therefore, no ROI calculations can be made for the passive vents as the pressure gradient in the subsurface will convey LFG to the passive vents.

5.3 Sub-Slab Depressurization Systems for Building Structures

SSD systems will be installed for all enclosed buildings at the site. This includes the maintenance building, clubhouse/banquet facility, and comfort station at the golf course; and one comfort station each at community and waterfront parks.

The SSD systems will be designed to capture and actively vent LFG from beneath each building foundation. Vent piping will be installed to penetrate the foundation slabs at each building, and travel up through the roof via a suction fan to discharge accumulated LFG to the atmosphere.

At each building, an impermeable geotextile liner will be placed directly on top of a 12-inch thick gas permeable aggregate sub-base layer, beneath the entire building's floor slab. Sub-slab depressurization pit(s) will be installed in the aggregate layer. A six-inch diameter vertical riser pipe will extend from the SSD pit(s) through the building to the roof, where a suction fan shall be installed to actively vent LFG.

Sub-slab LFG concentrations will be monitored through monitoring points installed through the floor slabs of each building. Indoor air combustible gas levels will be monitored via combustible gas indicators installed throughout the buildings.

5.4 LFG Control in Subsurface Features

LFG Control in Utility Corridors

All site utilities will be installed within the subsurface. Low-permeability soil/bentonite collars will be installed in utility corridors containing permeable pipe bedding materials at the building line into structures and where the utilities travel off-site. This will be done to prevent LFG from migrating laterally within pipe bedding and into buildings or off-site. These utilities are predominantly water and sanitary sewer lines but will include other utilities if they were installed with permeable pipe bedding material and they either enter a building or extend off-site.

Where such utilities are routed off-site through a perimeter vent trench, the soil collar will be installed immediately adjacent to the off-site side of the vent trench, thus allowing any gas traveling through the pipe bedding to be vented to the atmosphere through the vent trench. In locations where these utilities are not routed through a vent trench, a vertical passive vent will be installed immediately on the landfill side of the soil collar. In locations where these utilities travel into a building, the soil collar will be at the building line and a passive vent will be installed to vent the pipe bedding to the roof of the building.

Other utility LFG controls include air vents on vault and manhole covers and conduit seals and electrical connection.

Locations and details of the soil/bentonite collars and vent locations are shown on the Design Drawings prepared for the DPR under Contract X.126-208M (EEEPC 2012). The Design Drawings also include a detail of the conduit seals.

LFG Control Underneath Ponds/Lakes

An irrigation lake with a geomembrane liner has been constructed in the northwestern area of the golf course. The liner is an impediment to the surface venting of LFG. A gas transmission layer has been installed underneath the geomembrane liner and is connected to perforated piping around the perimeter of the lake as shown on TRC's Contract Drawings H2.1, H2.2, and H2.13 of Contract X.126-109M (TRC 2009c). This perforated pipe enables the passive venting of LFG from beneath the liner. This venting system could be activated should contingency actions be needed as described below.

Should perimeter LFG monitoring data indicate the off-site migration of methane, this venting system allows for the contingency connection of an active blower. Section 6.3.4.1 discusses the conditions for this potential contingency action.

Water quality ponds will be lined with a low permeability liner up to their permanent pool elevation. The low permeability LDPE liner will include passive venting. Ponds to be lined and passively vented include: K, L, M, P1, P2, and the irrigation lake. Pond P2 will be lined for its entire volume due to the presence of MSW encountered during excavation. The water quality ponds are shown on TRC's Contract Drawings C3.4 through C3.9 of Contract X.126-109M (TRC 2009c) and C-351.00 of Contract X.126-209M (TRC 2009b). The water quality pond liner designs are shown in EEEPC's Supplemental Drawings of Contract X.126-109M (EEEPC 2011a). A geocomposite layer will transfer, via a pressure gradient, any LFG building up pressure beneath the liner to the perimeter trench perforated pipe, where it will be passively vented to the atmosphere. Once the gas reaches the atmosphere, it will diffuse quickly to negligible levels, as described in Section 2.

Additional Risk Management Measures

The venting of enclosed but rarely occupied spaces, such as manholes, will be conducted by following confined space entry protocols, including active ventilation just prior to and during entry. A health and safety plan that addresses confined space ventilation, required air monitoring, and required personal protective equipment will be prepared and provided to NYSDEC.

6 Landfill Gas Maintenance and Monitoring Requirements

6.1 Introduction

Since 2000, DPR has performed bi-weekly LFG monitoring at on-site, perimeter, and off-site monitoring locations in accordance with the Site's 2005 Part 360 Permit (Permit No. 2-6006-00014/00013). Compliance with Part 360-2.17(f) requires methane concentrations at the site boundary to be less than the LEL. However, the 2005 Permit required the Ferry Point site to comply to a more restrictive criteria of 25% LEL as the action level for which additional sampling and reporting was required. The Part 360 renewal application for the site will comply with the regulatory guidance of NYCRR Part 360-2.17(f) for LFG monitoring and reporting, as described below in Section 6.1.1.

The required operations, maintenance, and monitoring (OM&M) actions presented in this document will be incorporated into the Part 360 permit renewal application for the Site.

LFG monitoring is planned using existing LFG probes, and will be conducted in accordance with this Plan. Figure 3-2 shows the location of LFG monitoring probes and piezometers.

6.1.1 Regulatory Guidance

The NYCRR Part 360 "Solid Waste Management Facilities" regulations concerning LFG were used as guidance in developing the OM&M program. The following criteria will be used for the Site:

Part 360-2.17(f):

- Concentration of explosive gases must not exceed 25% LEL in on-site and off-site structures; and
- Concentration of explosive gases must not exceed LEL at the property boundary.

Because of the planned future uses of the site as a golf course, banquet facility, and public park, the LFG monitoring plan provides a comprehensive program for future monitoring and maintenance, with specific contingency actions as needed.

Continuous monitoring for methane will occur in all enclosed buildings at the Site for the protection of occupants.

6.2 Monitoring Activities through Completion of Golf Course Construction

LFG monitoring activities through the completion of construction will continue to comply with the existing 2005 Part 360 permit special conditions, as summarized below. OM&M personnel for the site will remain as-is (AES or other DPR authorized gas monitoring subcontractor) through turnover of the project to post-construction operations.

- Special condition 26: Monthly inspections shall be performed of the gas venting trench to verify the integrity of the trench and mulch cover. The gas venting trench shall be maintained at all times and soil washouts promptly repaired. Mulch cover shall be replaced at a minimum every spring to maintain the effectiveness of the trench.

- Special condition 30: Monthly groundwater elevation gauging shall be performed to measure the depth to groundwater in each piezometer installed at the gas venting trench until completion of construction. If groundwater elevation in an individual piezometer is measured below the base of the vent trench during a single event, DPR will implement a response plan in accordance with special condition 31 of the 2005 permit. This response plan supersedes the requirements outlined in Exhibit I of Volume II of TRC's 2005 Engineering Report.

- Special condition 31: In the event groundwater level in an individual piezometer is measured below the base of the perimeter vent trench, the following actions will be taken:

  1. NYSDEC will be notified within 24 hours of an individual detection of groundwater elevation below the base of the trench.

  2. Frequency of piezometer monitoring will be switched to bi-weekly if two consecutive exceedences of LEL occur at nearby gas probes; or two consecutive groundwater elevation measurements in the piezometer are reported below the trench elevation.

  3. Monitoring will return to its routine frequency when groundwater elevation in the piezometer is reported above the base of the trench for three consecutive bi-weekly measurements; or methane measurements in nearby probes drop below the LEL for three consecutive measurements.

- Special conditions 32 and 34: Bi-weekly monitoring shall be performed for perimeter gas monitoring wells (0, 1A, 1 to 3, 5 to 12, and 14 to 18) and on-site monitoring wells (13 and 19).

If any individual monitoring point has a reading equal to or greater than 100% LEL or three consecutive bi-weekly readings greater than 25% LEL, monitoring will be performed weekly for the individual points with the elevated readings. An individual monitoring point will return to the regular bi-weekly monitoring schedule when three consecutive weekly readings are measured below the 25% LEL.

- Special conditions 36 and 37: Bi-weekly monitoring shall be performed for the off-site gas monitoring network.

  If any individual monitoring point has a reading that equals or greater than 100% LEL, or three consecutive bi-weekly readings greater than 25% LEL, monitoring will be performed weekly for the individual points with elevated readings. An individual monitoring point will return to the regular bi-weekly monitoring schedule when three consecutive weekly readings are measured below 25% LEL.

- As per NYSDEC's January 3, 2011, letter, additional LFG monitoring parameters will be added to the gas probe monitoring program for the remainder of Site construction. These parameters will continue to be monitored post-construction. These parameters include hydrogen sulfides, VOCs, and carbon monoxide, reported in parts per million (ppm); and well temperature and pressure.

6.3 Post-construction Monitoring and Maintenance

The information presented in the post-construction monitoring and maintenance plan is organized as follows:

- Description of OM&M personnel and responsibilities;
- Description of site gas monitoring and maintenance infrastructure, and the activities that will occur for each monitoring and/or maintenance event;
- Schedule of proposed maintenance and monitoring frequency;
- Performance criteria for:
  - Contingency actions,
  - Reduction in maintenance/monitoring,
  - Abandonment of gas venting and monitoring infrastructure; and
- Record keeping and reporting requirements.

Monitoring locations and frequencies are summarized in Table 6-1. O&M forms are included in Appendix D.

6.3.1 OM&M Personnel

New York City Departments of Parks and Recreation

The DPR is responsible for maintaining this OM&M Plan and ensuring that the LFG control systems are operated and maintained.

LFG Monitoring and Maintenance Supervisor

The LFG monitoring and maintenance (LFG M&M) supervisor will be an employee of DPR, oversee all Site LFG monitoring and maintenance activities, and serve as the primary point of contact for DPR for OM&M activities for the Site's LFG control systems. This individual shall be required to have a minimum of 5 years experience with the monitoring and reporting of LFG. The individual will be proficient in operating and maintaining gas monitoring equipment. They will have completed the initial 29 CFR 1910.120 (OSHA 40-hour HAZWOPER) training, and maintain the annual 8-hour refresher training. The LFG M&M supervisor has responsibility and authority to direct all OM&M work activities. The LFG M&M supervisor will maintain the necessary monitoring personnel for the required maintenance and monitoring activities.

LFG O&M Personnel

Each inspection/monitoring event will be performed by up to two personnel, who shall have prior experience with LFG monitoring, and who will be assigned by the LFG M&M supervisor. O&M personnel will be trained in the operation and maintenance of gas monitoring equipment and have completed the initial 29 CFR 1910.120 (OSHA 40-hour HAZWOPER) training, and maintain the annual 8-hour refresher training.

The duties of the LFG operation and maintenance (O&M) personnel include:

- Routine monitoring, maintenance, and inspections as detailed in Section 6.3.2;
- Performing contingency activities as detailed in Section 6.3.4.1; and
- Providing completed LFG O&M forms to the LFG M&M supervisor.

New York State Department of Environmental Conservation

NYSDEC is the regulatory agency under whose oversight maintenance and operation of LFG control systems will be conducted.

6.3.2 LFG Monitoring and Maintenance Infrastructure

6.3.2.1 Perimeter LFG Probes

Perimeter probes are located at approximately 250-foot intervals along the north, east, and southern site boundaries (refer to Figure 6-1 for probe locations and Exhibit H of Volume II of the TRC 2005 Engineering Report for probe completion details).

Routine Monitoring and Maintenance
During each event, OM&M personnel will:

1. Record the following field measurements at each location:
   a. Methane (% by volume and % LEL), O_2 (% by volume), hydrogen sulfides (ppm), VOCs (ppm), and carbon monoxide (CO) (ppm).
   b. Well temperature degrees Fahrenheit (°F) and well pressure pounds per square inch (psi).

2. Observe the probes and surrounding ground surface for damage and settlement, and make repairs as necessary (inspect inner and outer casings, check sample tube for holes or cuts, and make sure it is not kinked, make sure valve is operable, replace bolts, well lid, and check well locks as necessary). A summary of necessary repairs will be included in the Annual Report.

3. Complete a monitoring report following each event.

6.3.2.2 Off-site LFG Monitoring Network
Off-site probes are located along Buttrick, Balcom, Schley, Miles, and Emerson, avenues (see Figure 3-1 for probe locations and AKRF [2002] for probe construction details).

Routine Monitoring and Maintenance
During each event, OM&M personnel will:

1. Record the following field measurements at each location:
   a. Methane (% by volume and % LEL), O_2 (% by volume), hydrogen sulfides (ppm), VOCs (ppm), and CO (ppm).
   b. Well temperature (°F) and well pressure (psi).

2. Observe the probes and surrounding ground surface for damage and settlement and make repairs as necessary (inspect inner and outer casings, replace bolts, well lid, and check well locks). A summary of necessary repairs will be included in the Annual Report.

3. Complete a monitoring report following each event.

6.3.2.3 Piezometers
In 2002, 25 piezometers were installed to evaluate the groundwater elevation relative to the bottom of the passive-vent trench (see Figure 6-1 for piezometer locations and Exhibit I of Volume II of TRC's 2005 Engineering Report for piezometer details).

Routine Monitoring and Maintenance
During each event, OM&M personnel will:

1. Record the following field measurements at each location:

a. Depth to groundwater in the piezometer.

2. Observe the piezometers and surrounding ground surface for damage and settlement and make repairs as necessary (e.g., inspect inner and outer casings, replace bolts, well lid). A summary of necessary repairs will be included in the Annual Report.

3. Complete a monitoring report following each event.

6.3.2.4 Passive Vent Trench

The passive-vent trench is installed along the eastern perimeter of the Site and along a portion of the northern Site perimeter. The passive vent trench will be inspected annually, and maintained by DPR to verify the trench is operating as designed. During each event, OM&M personnel will:

1. Observe the vent trench for soil washouts of the mulch cover or other visible signs of damage.

2. Replace mulch cover for areas noted to have washouts.

3. Remove any woody vegetation that has accumulated in the trench.

4. Restore to grade any areas observed to have settled or eroded.

5. Complete a maintenance report, noting the schedule for any maintenance unable to be completed during the original event.

6.3.2.5 LFG Passive Vents

The passive venting system consists of:

- 25 individual vents within the golf course interior (See Appendix A – Passive Vent Layout and Details – Sheet S-H11.01 and SH11.02 for locations of these vents.)

- 12 passive vents inserted into utility pipe bedding material within golf course interior

- 12 passive vents within the community park.

- Additional passive vents as-needed for site features such as water quality pond liners.

Passive vents are intended to relieve LFG pressure buildup within in the buried waste and prevent offsite gas migration. Data trends observed in onsite probes MW-4R and MW-19 (Appendix C – LFG Monitoring Data - Sheets S-H6.01 and S-H6.02 –Existing Gas Monitoring and Venting Plan) illustrate the behavior of LFG that is anticipated at passive vent locations that are drilled into areas where

LFG is present. Elevated methane levels might be observed for up to several years following installation when decreased methane levels are expected.

The 25 stand-alone passive vents will be monitored for stack height reduction eligibility and decommissioning purposes, as described in Section 6.3.4.3 – Decommissioning of LFG Management Infrastructure. Passive vents will have an access port to facilitate monitoring. Passive vent monitoring will occur during routine vent inspection.

Routine monitoring of perimeter probes is based on the regulatory requirements outlined in Section 6.1, and will continue to detect the potential of off-site gas migration and be used for the recommendation of contingency actions for the Site.

Elevated levels of methane in a vent do not indicate an unsafe surrounding, since the vents are designed to transport LFG from within the landfill to the atmosphere for dispersal. Contingency actions for the stand-alone passive vents are given in Section 6.3.4.

Routine Maintenance and Inspection

During each event, OM&M personnel will:

1. Observe the ground surface around the vents and confirm that the vents are firmly anchored in their original intended position.

2. Observe the vent riser and confirm absence of damage to vent piping.

3. Provide general upkeep, including:
   a. Removing excessive vegetation at and around the vent area,
   b. Repairing any erosion or settlement around the vent riser, and
   c. Repairing any damage to vent risers, as necessary.

4. Monitoring of the 25 stand-alone passive vents within the golf course will be performed to evaluate stack height reduction eligibility. These measurements will be recorded and reported in the maintenance or inspection report.

   Perimeter probe monitoring will be used to determine if methane may be migrating off site. Contingency actions are discussed in Section 6.3.4.1.

   The following parameters will be measured and recorded:

   a. Methane (% by volume and % LEL), O_2 (% by volume), hydrogen sulfides (ppm), VOCs (ppm), and CO (ppm)
   b. Vent temperature (°F).

5. Complete a maintenance report, noting the schedule for any repairs/maintenance unable to be completed during the original event.

6.3.2.6 Sub-Slab Depressurization Systems

SSD systems are proposed for enclosed buildings at the Site. Monitoring requirements for SSD systems are presented in this section. The locations of the enclosed buildings where the SSD systems are to be installed are presented in Figure 3-2, Monitoring Locations. The proposed SSD systems must be approved by both NYSDEC and the New York State Department of Health (NYSDOH) prior to installation. Upon completion of the detailed design of these systems, DPR will provide NYSDEC with the manufacturer's specification sheets for the vapor barrier materials; manufacturers' operation and maintenance manuals for all vapor monitoring and control systems; and sizing calculations for vent fans. Installation and proper functioning of the SSDS shall be certified by a Professional Engineer registered in New York State.

The following buildings will have SSDSs:

- Golf Course Comfort station, as shown on drawings X-002.00 through X-005.00 (TRC 2009b);
- Golf Course Maintenance Facility, as shown on drawings X-001.00 and X-003.00 through X-005.00 (TRC 2009b);
- Community Park Comfort Station, as shown on drawing EV-1 (Whitestone Associates 2009);
- Golf Course Clubhouse (not yet designed); and
- Waterfront Park Comfort Station (not yet designed).

Any new structures at the Site will be designed in accordance with New York City Department of Buildings permitting procedures. The need and extent of LFG mitigation systems for future site structures will be evaluated on a case by case basis.

Routine Maintenance and Inspections

System inspections will be performed on a routine basis for the site's SSD systems. During each event, OM&M personnel will:

1. Perform routine maintenance on the SSD equipment based on manufacturer's manuals, including calibration of the methane gas monitors using standard gasses.

2. Download continuous SSD monitoring data retained by the system controller at each building.

3. Complete maintenance activities indicated by equipment manufacturers of the respective systems.

4. Complete an inspection report, with the following readings:
   a. Sub-slab vacuum readings at the sub-slab monitoring points located within each building,
   b. Vacuum gauge readings located on the suction fan inlet, and

c. Note the schedule for any maintenance unable to be completed during the original event.

Real-Time Monitoring and Contingency Actions for Occupied Structures

Each enclosed facility will have at least one continuous combustible-gas monitor that will transmit real-time methane readings to a system controller. The installed system will be capable of retaining the readings and generating reports that include date, time, and methane concentration.

One air-flow switch will be installed for each suction fan. The switch will detect and transmit low-flow conditions to a system autodialer.

An autodialer system will enable the DPR to be notified remotely based on "early warning" indicators. Early warning levels will be set to allow time for corrective action to be taken before methane levels reach 25% LEL in the enclosed space.

Early warning indicators will identify the following conditions:

- Reduction of system flow rate below what is required for effective operation.
- Detection of methane levels at a sentinel concentration of 10% LEL.

Visible and audible alarms will occur at levels of 25% LEL and above to signal the need for building evacuation. Upon notification of elevated methane levels, the building will be evacuated and ventilated. Building occupants will be allowed to re-enter the enclosed facility only after continuously monitored LEL levels drop below 25% LEL.

If methane readings exceed 25% LEL in an enclosed space, NYSDEC will be notified within 24 hours of the event.

6.3.2.7 Irrigation Lake Venting System

An irrigation lake with a geomembrane liner has been constructed in the northwestern area of the golf course. The liner is an impediment to the surface venting of LFG. A gas transmission layer has been installed underneath the geomembrane liner and is connected to perforated piping around the perimeter of the lake as shown on TRC's Contract Drawings H2.1, H2.2, and H2.13 of Contract X.126-109M. This perforated pipe enables the passive venting of LFG from beneath the liner. This venting system could be activated should contingency actions be needed as described below.

Should perimeter LFG monitoring data indicate the off-site migration of methane, this venting system allows for the contingency connection of an active blower. Section 6.3.4.1 discusses the conditions for this potential contingency action.

6.3.3 LFG Monitoring Schedule

Implementation of the post-construction monitoring plan will collect data necessary to meet the regulatory guidance and to confirm the effectiveness of the installed LFG control measures. The monitoring program will be used to confirm that future LFG conditions are consistent with noted historical trends and LandGEM model projections.

Basis for Proposed Monitoring Schedule

A review of Site data from 2000 to April, 2012 was performed to create the basis for the recommended method of post-construction gas monitoring. The data review included five bi-weekly monitoring events that occurred after the well repairs (including retrofits) were made. LFG design criteria and LandGEM modeling data were also reviewed.

Methane emissions modeling performed by both TRC in 1999 (AKRF 1999) and EEEPC in 2010 projected estimates that were approximately 10% of the peak generation rate, and were higher in concentration than actual field measured emissions obtained through the 2010 flux box sampling event (see Figure 6-1). The flux box sampling event found no reportable surface methane concentrations at any of the 30 on-site test locations.

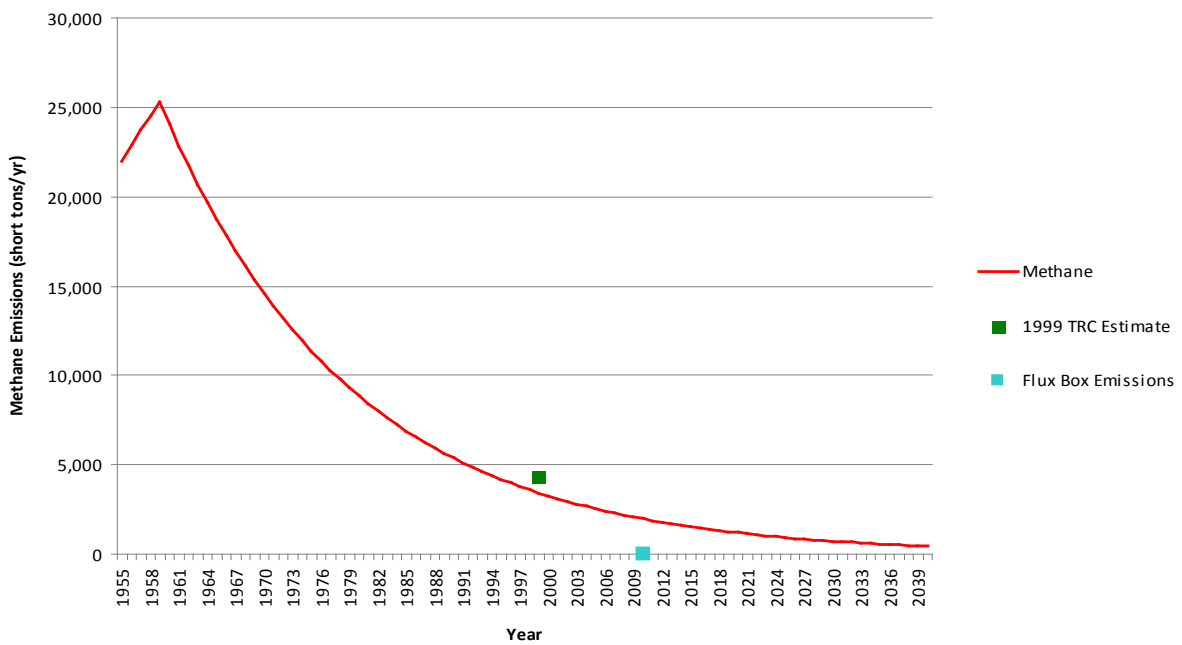

Figure 6-1 LandGEM Emissions Model Results

Piezometer Measurements

In compliance with the current permit and consistent with Part 360-2.15(f) performance objectives, the DPR has taken groundwater elevation measurements bi-weekly at piezometer locations. The data collected from 2007 through 2010 demonstrates that groundwater elevations in the piezometers have been above the base of the vent trench during the entire period.

6.3.3.1 Proposed Monitoring Frequencies

The monitoring schedule below is proposed as the initial post-construction monitoring plan. Adjustments to monitoring frequencies will be requested of NYSDEC upon meeting the performance criteria thresholds identified in this document. DPR will submit a request with supporting documentation to NYSDEC 30 days prior to the desired date of the proposed change in monitoring. DPR will not change monitoring frequencies until the request has been approved.

All wells that have not been approved for abandonment by NYSDEC, have undergone the repairs necessary to bring them into compliance with the current Part 360 Permit. Data collected from the repaired well locations has been used, with the historic data to recommend the initial monitoring frequencies shown in Table 6-1.

- Perimeter and off-site gas probes that reported detections of methane above 25% LEL in the last five years of monitoring (since 2006) will be monitored quarterly. Inspections and maintenance at these locations will be performed during monitoring events.

- Perimeter and off-site gas probes that reported no detections of methane above 25% LEL in the last five years of monitoring (since 2006) will be monitored annually. Inspections and maintenance at these locations will be performed during monitoring events.

- On-site LFG monitoring probes will not be included in the post-construction monitoring program. Inspections and maintenance at these locations will be performed annually.

- Piezometers locations will be monitored and inspected monthly.

- The 25 stand-alone passive vents within the golf course boundary will be inspected approximately one month after completion of installation of all vents. Inspections will occur quarterly for the first year following installation, and continue annually thereafter. NYSDEC reserves the right to require an inspection frequency other than annual after the first year. Inspections of passive vents include LFG monitoring as described in Section 6.3.2.5.

- The remaining passive venting infrastructure, including the passive vent trench, and vents for Community Park, water quality ponds, and utility soil collar vents will be inspected annually.

- Monitoring in enclosed structures will be conducted using combustible gas monitors that will record real-time methane concentrations. System alarms will be monitored and maintained inside these structures. Inspections and maintenance of sub-slab depressurization systems at enclosed structures will be performed quarterly.

Monitoring will continue at the frequency outlined in this Plan until: 1) the DPR provides NYSDEC a formal request to change the monitoring frequencies along with supporting documentation and 2) the request is approved by NYSDEC. Additional inspections of passive venting infrastructure may occur upon the implementation of contingency activities, as discussed in Section 6.3.4.1.

Table 6-1 Post Construction Landfill Gas Initial Monitoring Frequency

Location	Number of Methane Detections Above 25% LEL			Proposed Monitoring Frequency[1,2]
	August 2000 – January 2010	January 2006 – January 2010	Post-Retrofit 2/21/12 – 4/16/12	
Perimeter LFG Monitoring Probes				
MW-0	**176**	**61**	NA	None – Abandoned. Replaced with onsite MW-0REP
MW-1	**41**	0	NA	None (Previously Decommissioned)
MW-1A	**3**	0	0	Annually
MW-1R	**1**	0	0	Annually
MW-2	**4**	0	**1**	Quarterly
MW-3	**1**	0	0	Annually
MW-4A	**17**	0	0	Annually
MW-5	**11**	0	0	Annually
MW-6	**12**	0	0	Annually
MW-7	**16**	0	0	Annually
MW-8	**2**	0	0	Annually
MW-9	0	0	1	Quarterly
MW-10	**1**	0	0	Annually
MW-11	0	0	0	Annually
MW-12	**1**	0	0	Annually
MW-14	**105**	**4**	**1**	Quarterly
MW-15	0	0	0	Annually
MW-16	**2**	0	0	Annually
MW-17	0	0	0	Annually
MW-18	0	0	**1**	Quarterly
Onsite LFG Monitoring Probes[3]				
MW-0REP	NA	NA	**4**	Quarterly
MW-4R	**90**	**30**	NA	None – Abandoned. Replaced with MW-4REP
MW-4REP	NA	NA	**10**	Quarterly
MW-13	**17**	**4**	0	Quarterly
MW-19	**108**	**5**	NA	None – Abandoned. Replaced with MW-19REP
MW-19REP	NA	NA	**10**	Quarterly
Off-Site Monitoring Probes[4]				
Buttrick				
1R	0	0	0	Annually
2R	0	0	0	Annually
3R	0	0	0	Annually
4R	**2**	**1**	**0**	Quarterly

Table 6-1 Post Construction Landfill Gas Initial Monitoring Frequency

Location	Number of Methane Detections Above 25% LEL August 2000 – January 2010	January 2006 – January 2010	Post-Retrofit 2/21/12 – 4/16/12	Proposed Monitoring Frequency[1,2]
5	0	0	0	None (Previously Decommissioned)
6	2	2	1	None (Proposed for Abandonment due to proximity to other monitoring points))
8	**35**	**23**	**1**	Quarterly
9	**54**	**30**	**1**	Quarterly
10	**166**	**108**	**NA**	None – Abandoned. Replaced with MW-10REP
10REP	**NA**	**NA**	**2**	Quarterly
12R	**50**	**35**	**4**	Quarterly
13R	**13**	**6**	**2**	Quarterly
14R	**14**	**6**	**3**	Quarterly
16R	**84**	**70**	**3**	Quarterly
17R	**8**	**5**	**0**	Quarterly
18	0	0	0	Annually
Schley South				
3R	**2**	0	0	Annually
5	**4**	**4**	**0**	Quarterly
6	**22**	**22**	**1**	Quarterly
7	2	2	0	None (Proposed for Abandonment due to proximity to other monitoring points))
8	**2**	**2**	**1**	Quarterly
9	**3**	**3**	**0**	Quarterly
10	0	0	0	Annually
Schley North				
4A	0	0	0	Annually
5	0	0	0	Annually
7R	0	0	0	Annually
7A	**1**	0	0	None (Proposed for Abandonment due to proximity to other monitoring points)
Emerson				
E1R	0	0	0	Annually
E2RR	0	0	0	Annually
E3R	**5**	**5**	**2**	Quarterly
E4R	0	0	0	Annually
E5R	2	0	0	Annually
E6R	0	0	0	Annually

Table 6-1 Post Construction Landfill Gas Initial Monitoring Frequency

Location	Number of Methane Detections Above 25% LEL			Proposed Monitoring Frequency[1,2]
	August 2000 – January 2010	January 2006 – January 2010	Post-Retrofit 2/21/12 – 4/16/12	
E7R	0	0	0	Annually
E8R	0	0	0	Annually
Miles				
M1R	**1**	0	0	Annually
M2R	**2**	0	0	Annually
M3R	**1**	0	0	Annually
M4R	**1**	0	1	Quarterly
M5R	0	0	0	Annually
M6R	0	0	0	Annually
M7R	0	0	0	Annually
M8R	0	0	0	Annually
M9R	**1**	0	0	Annually
M10R	5	0	0	Annually
Balcom				
2	**6**	0	0	Annually
4	0	0	0	Annually

Notes:
1. Locations selected for annual monitoring - No detections of methane above 25% LEL since January 2006.
2. Locations selected for quarterly monitoring - At least one detection of methane above 25% LEL since January 2006.
3. On-site wells will not be included in post-construction monitoring.
4. Off-site probe locations selected for abandonment based on proximity to other monitoring points.

6.3.4 Gas Monitoring Performance Criteria

6.3.4.1 Contingency Actions for LFG Monitoring Wells and Gas Management Infrastructure

The following contingency actions are recommended for post-construction site operations for LFG monitoring wells and gas management infrastructure:

- NYCDPR will provide verbal and electronic notification within 24 hours of an individual LFG measurement exceeding the criteria established in the Part 360 Permit to FDNY, NYCHA, NYSDEC, and NYCDOHMH, according to the following guidelines:
  - NYSDEC & FDNY – Will be notified for all post-construction monitoring events and contingency action events where an exceedance is observed.
  - NYCHA & NYCDOHMH – Will be notified for post-construction monitoring and contingency action events where an exceedance is observed within an enclosed building, or at a perimeter or offsite monitoring location. Enclosed buildings are defined as those buildings within the site that have sub-slab depressurization systems: golf course maintenance building, clubhouse, comfort station/snack bar and community park comfort station.
  - All monitoring, maintenance, and contingency actions will be documented and kept at the NYCDPR Bronx Borough Office (Ranaqua), Bronx Park, Bronx, New York.

- If two consecutive measurements above 100% LEL occur at any perimeter gas monitoring probe, or at an offsite gas monitoring probe located on Emerson, Miles, or Balcolm avenues, a monitoring and maintenance event will be performed within seven days following the second consecutive measurement and consist of the following:
  1. Inspection and maintenance of the perimeter vent trench within 100 feet on either side of the individual probe location.
  2. Water level gauging at the two nearest piezometers to the individual probe location.
  3. Inspection of any additional passive venting infrastructure located within a 100-foot radius of the individual probe location for damage and overgrowth.
  4. Follow up monitoring for all parameters at the individual probe location two weeks after completion of the items above.

  If contingency maintenance reveals a potential cause for the elevated methane measurements (e.g., vent trench clogged and water levels below trench), this will be reported to NYSDEC and routine monitoring frequency will resume once maintenance is complete, and follow-up monitoring indicates levels have dropped.

  If monitoring following contingency maintenance indicates that methane levels remain above 100% LEL, the following actions will be completed and reported to NYSDEC within 45 days of completion of initial contingency maintenance:
  1. Review of recent elevated detections at nearby monitoring locations.
  2. Evaluation of methane levels at the property boundary and off-site, if necessary.
  3. Evaluation of potential outside causes of elevated methane (i.e., mulching/composting activities nearby).
  4. Evaluation of potential Site disturbances (i.e., excavation or construction) that may have resulted in the movement of subsurface methane.
  5. A proposed plan for the mitigation of elevated methane, which includes:
     a. Mitigation of outside causes of elevated methane, if identified.
     b. LFG monitoring in the vicinity of site work to determine impacts resulting from site activities.
     c. Inspection and maintenance of passive vent trench.
     d. Follow-up monitoring to confirm methane levels following completion of contingency actions.
  6. Evaluation for the potential installation of additional venting infrastructure may be considered if the contingency actions above are shown to be ineffective. These include:
     a. Installation of additional individual passive vents, and
     b. Installation of active blower system for the irrigation lake;

- Off-site probes on Buttrick and Schley avenues are believed to be located near an off-site source of methane. In addition, perimeter gas probes exist on

Schley Avenue which will indicate the presence of methane at the Site boundary. Therefore, elevated methane measurements at off-site probes located on Buttrick and Schley avenues will not require contingency actions.

- For the twenty-five stand-alone passive vents at the golf course:

If the routine vent inspections indicate that any stand-alone passive vent is not functioning as designed, DPR will:

1. Perform a 25-foot radius scan using the LFG monitoring instrument around that vent to confirm safe conditions in the breathing zone.

2. Prepare a specific work plan to evaluate conditions at that vent and recommend contingency actions.

6.3.4.2 Performance Criteria for Reduction of LFG Monitoring

The following performance thresholds will be used as guidance reductions in monitoring frequency. When the data thresholds assigned show that site conditions are acceptable for such reductions, DPR will provide NYSDEC with the supporting documentation and a request to change the monitoring frequency, for NYSDEC review and approval.. These thresholds apply to the post-construction period only.

For perimeter, on-site and off-site probes initially subject to quarterly monitoring:

- Following three consecutive years of quarterly methane measurements below 25% LEL at an individual location, DPR will request that monitoring at that location will be reduced to annually.

- Following two additional consecutive years of annual methane measurements below 25% LEL at an individual location, DPR will request that monitoring at that location will be discontinued and decommissioned. Discontinued gas monitoring locations may be selected for decommissioning upon approval by NYDEC.

For perimeter, on-site and off-site probes initially subject to annual monitoring:

- Following five consecutive years of annual methane measurements below 25% LEL at an individual location, DPR will request that monitoring at that location will be discontinued. Discontinued gas monitoring locations may be selected for decommissioning upon approval by NYSDEC.

For piezometers (all subject to annual monitoring):

- Following five years of annual groundwater measurements above the base elevation of the perimeter vent trench at an individual location, DPR will request that monitoring at that location will be discontinued. Discontinued pie-

zometer locations may be selected for decommissioning upon approval by NYSDEC.

6.3.4.3 Decommissioning of LFG Management Infrastructure

LFG monitoring and mitigation systems will be evaluated for phase-out and decommissioning as described in the sections below. DPR will submit a request with supporting documentation to NYSDEC 30 days prior to the desired date of decommissioning of any LFG mitigation infrastructure. Decommissioning of LFG management infrastructure will not occur until after the request has been approved by NYSDEC.

Perimeter, On-Site and Off-site Monitoring Probes

Decommissioning of perimeter, on-site and off-site gas probes will be requested when an individual location has met the criteria for removal from the monitoring program.

Off-site Probes in Buttrick/Schley Avenue (North and South) Areas:

Persistent methane detections in probes, located on Buttrick/Schley Avenue areas are attributed to a source separate from a landfill. The DPR has performed desktop and field evaluations to determine the source of the methane measurements.

1. Historic mapping shows the previous presence of marshlands, which are a likely contributor to elevated subsurface methane.

2. Following installation of the landfill gas perimeter vent trench, no significant changes in the elevated methane levels on Buttrick Avenue were observed.

3. LFG fingerprint testing for selected wells on Buttrick Avenue was attempted in June 2011. Monitoring following well purging observed methane levels too low on this occasion to obtain sufficient samples for laboratory analysis.

Due to these considerations, decommissioning of these probes may be requested of NYSDEC prior to meeting the criteria established in this document.

Piezometers

Monitoring of perimeter piezometer locations within the LFG vent trench will continue while LFG monitoring continues at perimeter gas monitoring locations. Once data shows that all perimeter gas monitoring locations have met the criteria for removal from the monitoring program, monitoring of the piezometers will also be discontinued, and piezometer locations will be abandoned in place, pending approval by NYSDEC.

Passive Vent Trench

Maintenance of the passive vent trench will continue while LFG monitoring continues at perimeter gas monitoring locations. Once data shows that all perimeter gas monitoring locations have met the criteria for removal from the monitoring

program, inspections of the vent trench and its use as a passive gas mitigation method will be discontinued, pending approval by NYSDEC.

Passive Venting Systems

The 12 community park vents will remain in place after LFG monitoring and mitigation activities cease, due to their incorporation into park facilities. Once it is determined that on-site and perimeter monitoring can be discontinued, inspections of these vents and their use as a passive gas mitigation method will be discontinued, pending approval by NYSDEC.

Passive vents associated with utilities, structures, and ponds may be selected for decommissioning on site, pending approval by NYSDEC.

The 25 stand-alone passive vents within the golf course boundary will be monitored for stack height reduction eligibility only during annual inspection events. The stand-alone passive vents are designed with a sampling port to facilitate monitoring. Vents will be eligible for a stack height reduction according to the following:

- Following five years of methane detections reported below the LEL at an individual vent location, vent height will be reduced to 6 inches above ground surface. Reduced height vents will continue to remain in service and be fitted with an appropriate cover to allow venting and protect from damage or foreign objects.

The 25 stand-alone passive vents within the golf course boundary may be selected for decommissioning, pending approval by NYSDEC. Once on site and perimeter monitoring locations have shown compliance with the criteria for removal from the monitoring program, inspections of the vents and their use as a passive gas mitigation method will be discontinued.

DPR will submit a request with supporting documentation to NYSDEC 30 days prior to the planned date to decommission of any passive venting locations. DPR will not take action until the request has been approved by NYSDEC.

SSD Systems

Once it is determined that all of the 25 stand-alone onsite passive vents have been decommissioned based on the decommissioning guidelines provided in this document and upon approval by NYSDEC, SSD systems will be phased out of active operations. At this time the SSD systems will be retrofitted to enable passive venting. Continuous methane monitors and alarms will remain in place inside each building, and be maintained until approval to discontinue continuous monitoring is granted by NYSDEC.

6.4 Record-Keeping and Reporting

6.4.1 Record-Keeping

All project documents, maintenance, and monitoring records will be held at the NYCDPR Bronx Borough Office (Ranaqua), Bronx Park, Bronx, New York. An additional copy of the LFG OM&M plan will be maintained at the Site's Maintenance Facility office. Project documents held by the DPR will include:

- Construction Specifications;
- Record Drawings;
- Ferry Point Landfill Gas Management Plan;
- Ferry Point Landfill Gas Operations, Maintenance, and Monitoring Plan; and
- Equipment Manufacturers Operations and Maintenance Documents and Specifications.

Monitoring personnel will be required to fill out the forms enclosed in Appendix D upon completion of the respective Site activity. Completed forms will be kept on-site for a minimum of one year and retained by the DPR thereafter. These documents will be provided to NYSDEC as part of the Annual Report.

6.4.2 Contingency Reporting

LFG Monitoring Locations

- NYSDEC will be notified within 24 hours if methane is detected above the LEL during monitoring activities.
- NYSDEC will be notified within 24 hours when methane detections indicate contingency actions are necessary.
- NYSDEC will be notified within seven days following completion of contingency actions.
- The DPR will prepare and submit a follow-up report to NYSDEC upon completion of contingency actions.

Piezometer Monitoring Locations

- NYSDEC will be notified within 24 hours if groundwater elevation is detected below the base of the passive-vent trench during monitoring activities.

Sub-slab Depressurization Systems

- NYSDEC will be notified within 24 hours if methane levels are reported above 25% LEL.

6.4.3 Annual Reporting

The DPR will prepare and submit an Annual Report to NYSDEC describing monitoring activities each year. Observation, repair, and monitoring reports will be included as appendices to the annual report. Annual reports will be submitted until the phase-out and decommissioning of all LFG-control systems and monitoring locations has occurred. The annual report will be submitted to NYSDEC by March 31 of the year following the monitoring period.

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A Passive Vent Layout

B LandGEM Model Results

C LFG Monitoring Data

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-0	MW-1	MW-1A	MW-1R	MW-2	MW-3	MW-4R	MW-4A	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-19
8/23/2000		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N.S.
9/12/2000		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N.S.
9/26/2000		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N.S.
10/11/2000		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/22/2000		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/2000		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/25/2000		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/6/2000		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/20/2000		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/29/2000		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/8/2001		0.00		---	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/12/2001		N.S.		---	N.S.	N.S.	N.S.		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/9/2001		2.60		---	0.20	0.00	84.00		5.50	6.50	12.00	0.00	0.00	0.00	0.00	0.00	12.00
2/15/2001		0.00		---	0.25	0.00	58.00		0.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	1.75
2/26/2001		0.20		---	0.00	0.00	0.20		47.00	45.00	12.00	0.00	0.00	0.00	0.00	0.00	33.00
3/9/2001		2.65		---	0.70	0.00	0.05		55.00	53.00	35.00	0.00	0.00	0.00	0.00	0.00	41.00
3/16/2001		2.15		---	0.25	0.05	2.60		42.00	49.00	4.15	0.00	0.00	0.00	0.00	0.00	7.50
3/23/2001		2.35		---	0.60	0.05	3.30		55.00	56.00	46.00	0.00	0.00	0.00	0.00	0.00	6.50
3/30/2001		4.40		---	0.40	0.00	3.25	19.00	0.25	55.00	43.00	0.00	0.00	0.00	0.00	0.00	26.00
4/6/2001		4.40		---	1.55	0.00	61.00	22.00	52.00	55.00	39.00	0.00	0.00	0.00	0.00	0.00	6.00
4/13/2001		2.25		---	0.25	0.00	47.00	14.00	37.00	48.00	25.00	0.00	0.00	0.00	0.00	0.00	4.40
4/20/2001		2.85		---	0.95	0.00	71.00	5.50	50.00	57.00	37.00	0.00	0.00	0.00	0.00	0.00	40.00
4/27/2001	1.00	4.25	0.00	---	1.60	0.00	0.60	15.00	44.00	48.00	40.00	0.00	0.00	0.00	0.00	0.00	24.00
5/4/2001	0.70	1.40	0.00	---	1.00	0.00	60.00	1.80	46.00	51.00	38.00	0.00	0.00	0.00	0.00	0.00	17.00
5/11/2001	0.95	2.85	0.00	---	0.30	0.00	56.00	9.50	0.85	0.90	0.00	0.00	0.00	0.00	0.00	0.00	14.00
5/18/2001	2.10	2.40	0.00	---	0.45	0.00	33.00	12.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	16.00
5/25/2001	0.80	0.00	0.00	---	0.50	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.00
6/1/2001	8.50	1.80	0.00	---	0.15	0.00	0.10	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.00
6/8/2001	13.00	6.50	1.30	---	1.00	0.00	54.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.80
6/15/2001	12.00	3.20	0.00	---	0.50	0.00	57.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00
6/22/2001	15.00	3.35	0.35	---	0.80	0.00	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.00
6/29/2001	14.00	3.00	0.35	---	0.60	0.00	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.00
7/6/2001	14.00	0.65	0.10	---	0.50	0.00	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.00
7/13/2001	19.60	4.15	0.00	---	0.30	0.00	1.65	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.40
7/20/2001	17.00	0.00	0.00	---	0.25	0.00	60.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.50
7/27/2001	17.50	0.00	0.00	---	0.00	0.00	53.20	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.70
8/3/2001	19.20	11.20	0.00	---	0.90	0.00	49.70	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.90
8/10/2001	17.40	7.30	0.00	---	0.57	0.00	43.50	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.20
8/17/2001	20.00	16.00	0.80	---	5.40	0.00	49.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.00
8/24/2001	22.00	6.90	0.70	---	1.00	0.00	49.80	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.90
8/31/2001	20.70	14.50	1.20	---	6.30	0.00	51.60	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.70
9/7/2001	17.50	3.30	0.00	---			50.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00
9/14/2001		7.50	NS	---	0.00	0.00	NS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00
9/21/2001	21.70	1.20	0.00	---	0.00	0.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.50
9/28/2001	23.30	3.60	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.50
10/4/2001	22.00	3.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00
10/12/2001	21.00	6.40	0.00	---	0.00	0.00	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00
10/19/2001	22.20	1.95	0.00	---	0.00	0.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.70

Ferry Point Park
Methane Monitoring

Inaccessible
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Well	MW-0	MW-1	MW-1A	MW-1R	MW-2	MW-3	MW-4R	MW-4A	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-19
10/26/2001	17.40	5.50	0.00	---	0.00	0.00	NS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.80
11/2/2001	14.90	3.30	0.00	---	0.00	0.00	NS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00
11/9/2001	11.80	2.90	0.00	---	0.00	0.00	NS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.40
11/16/2001	9.60	1.70	0.00	---	0.00	0.40	NS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.10
11/23/2001	0.00	0.60	0.00	---	0.00	0.00	NS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.40
11/30/2001	11.10	0.80	0.00	---	0.00	0.00	NS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.10
12/7/2001	10.90	1.00	0.00	---	0.00	0.00	NS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.80
12/14/2001	0.70	1.10	0.00	---	0.00	0.00	NS	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	13.50
12/28/2001	12.20	1.80		---													
1/4/2002	16.50	0.00	0.00	---	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.20
1/25/2002	14.10	0.00	0.00	---	0.00	0.00	N.O	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.60
2/18/2002	12.30	0.00	N.M.	---	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
3/5/2002	99.00	100.00	0.10	---	0.05	0.05	N.O.	0.20	0.10	0.05	0.10	0.05	0.00	0.00	0.00	0.05	48.00
3/19/2002	100.00	0.00	0.00	---	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.00
4/2/2002	100.00	0.00	0.00	---	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67.00
4/16/2002	100.00	0.00	0.00	---	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
4/30/2002	21.00	2.00	0.00	---	0.00	0.00	N.O.	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74.00
5/15/2002	5.00	0.25	0.05	---	0.05	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
5/28/2002	5.00	0.00	0.00	---	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
6/11/2002	1.92	0.15	0.00	---	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	52.00
6/28/2002	59.00	1.00	0.00	---	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.70
7/9/2002	3.70	0.05	0.00	---	N.O.	N.O.	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50
7/24/2002	20.00	N.O	0.00	---	N.O.	N.O.	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
8/7/2002	4.20	0.00	0.00	---	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.10
8/20/2002	4.60	0.00	0.00	---	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.25
9/4/2002	50.00	0.00	0.00	---	0.00	0.00	N.O.	0.00	0.00	N.M.	N.M.	N.M.	N.M.	0.00	0.00	0.00	57.00
9/17/2002	20.00	0.00	0.00	---	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.00
10/2/2002	45.00	0.00	0.00	---	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.00
10/17/2002	25.00	0.00	0.00	---	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.00
10/29/2002	51.00	0.00	0.00	---	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00
11/12/2002	12.00	0.00	0.00	---	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.00
11/26/2002	100.00	97.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
12/10/2002	100.00	5.00	0.00	---	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	96.00
12/23/2002	100.00	0.00	0.00	---	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
1/7/2003	100.00	0.00	0.00	---	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00
1/21/2003	3.65	6.00	0.00	---	0.00	0.00	68.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.00
2/4/2003	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/19/2003	0.00	NO	NO	---	NO	NO	NO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NO
3/4/2003	0.70	0.00		---	0.00		5.00	0.05	0.05	0.15	0.15	0.15	0.00	0.05	0.00	0.00	5.00
3/18/2003	6.00	6.00	0.00	---	0.00	0.00	5.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	1.25
4/1/2003	14.00	0.00	0.10	---	0.05	0.00	80.00	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.00	0.00	0.50
4/15/2003	100.00	0.05	0.00	0.10	0.00	0.00	88.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10
4/30/2003	2.35	0.00	0.10	0.10	0.00	0.00	0.00	0.05	0.05	0.10	0.10	0.05	0.00	0.00	0.05	0.00	0.50
5/14/2003	6.00	0.00	0.00	0.00	0.00	0.00	47.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.00
5/27/2003	12.00	0.00	0.00	0.00	0.00	0.00	35.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.00
6/10/2003	16.00	0.20	0.18	0.00	0.25	0.00	74.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.24
6/24/2003	16.00	0.20	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38
7/8/2003	12.00	0.00	0.00	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	21.00

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-0	MW-1	MW-1A	MW-1R	MW-2	MW-3	MW-4R	MW-4A	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-19
7/23/2003	12.00	0.00	0.00	0.00	0.15	0.00	37.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	11.00
8/4/2003	11.00	0.00	0.00	0.00	0.00	0.00	80.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.00
8/19/2003	17.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00
9/3/2003	8.00	0.00		0.00	0.00	0.00	7.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		15.00
9/17/2003	15.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.50
10/3/2003	18.00	0.00	0.00	0.00	0.00	4.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00
10/15/2003	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.50
10/31/2003		0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.50
11/11/2003	2.20	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/26/2003	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/3/2003	7.00	0.00	5.00	0.00	0.00	0.00		1.00	2.00	0.00	2.00	2.00	1.00	7.00	1.00	2.00	3.00
12/15/2003	3.74	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78
12/31/2003	2.32	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/13/2004	2.72	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/27/2004	2.16	0.00		0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.30
2/12/2004	2.52	0.00			0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.00
2/25/2004	0.40	0.00	0.00	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94
3/8/2004	3.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	12.00
3/22/2004	4.60	0.00	0.00	0.00	0.00	0.00		0.05	0.10	0.10	0.10	0.05	0.05	0.00	0.00	0.00	1.40
4/7/2004	3.00	1.00	2.00	1.00	1.00	0.00		0.00	0.00	2.00	3.00	2.00	0.00	0.00	0.00	0.00	77.00
4/23/2004	26.00	2.00		0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00
5/6/2004	6.00	0.00				0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/20/2004	6.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.00
6/3/2004	6.00			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		4.00
6/17/2004	24.00			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.00
6/29/2004	7.00			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00
7/16/2004	17.00			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00
7/30/2004	20.00			0.00	0.00	0.00		0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00	0.00	0.00
8/11/2004				0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/26/2004	0.90			0.00	0.00	0.00		0.00	0.00	0.00	1.15	0.00		0.00	0.00		0.00
9/10/2004	6.00			0.00	0.00			0.10	0.00	0.00	0.10	0.05		0.00	0.00		0.00
9/24/2004	33.00			0.00				0.05	0.05	0.05	1.45	0.00		0.00	0.00		0.85
10/8/2004	16.00			0.00				0.10	0.00	0.00	0.10	0.05	0.00	0.00	0.00	0.00	0.00
10/22/2004	33.00			0.00				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/5/2004	15.00			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/19/2004	10.00			0.00	0.00	0.00		0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.00
11/29/2004	7.00			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/16/2004	0.50			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/30/2004	0.83			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/14/2005	3.50			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/26/2005	3.86			0.00	0.00	0.00	83.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.20
2/8/2005	23.00		0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
2/25/2005	22.50			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
3/9/2005	3.68			0.00	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/22/2005	1.90			0.00	0.00	0.00	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/6/2005	1.05	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/20/2005	1.02	0.00	0.00	0.00	0.00	0.00	92.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/6/2005	1.18	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-0	MW-1	MW-1A	MW-1R	MW-2	MW-3	MW-4R	MW-4A	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-19
5/17/2005	0.83	0.00	0.00	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/31/2005	0.25	0.00	0.00	0.00	0.00	0.00	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/16/2005	6.00	0.00	0.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/30/2005	6.00		0.00		0.00	0.00	96.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33
7/15/2005	1.30		0.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cnl
7/29/2005	6.00		0.00		0.00	0.00	96.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	6.50
8/12/2005	12.50		0.00	0.00	0.00	0.00	98.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00
8/26/2005	13.50		0.00	0.00	0.00	0.00	94.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.50
9/9/2005	16.32		0.00		0.00	0.00	72.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00
9/26/2005	6.70		0.00	0.00	0.00	0.00	88.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/7/2005	5.60		0.00	0.00	0.00	0.00	64.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.80
10/21/2005	6.70		0.00	0.00	0.00	0.00	30.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/4/2005	2.13		0.00	0.00	0.00	0.00	88.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/18/2005	3.70		0.00	0.00	0.00	0.00	27.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/2/2005	6.00		0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/7/2005	0.54																
12/14/2005	1.20	0.00	0.00	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/21/2005	0.72																
12/29/2005	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/4/2006	0.95																
1/10/2006	0.00		0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/25/2006	3.50		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/8/2006	0.85		0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/22/2006	0.53		0.00	0.00	0.00	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/8/2006	0.70		0.00	0.00	0.00	0.00	76.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/23/2006	4.12		0.00	0.00	0.00	0.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/7/2006	0.85	0.00	0.00	0.00	0.00	0.00	90.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80
4/19/2006	3.10	0.00	0.00	0.00	0.00	0.00	87.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/3/2006	0.60	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/17/2006	2.22	0.00	0.00	0.00	0.00	0.00	4.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.50
5/31/2006	2.68	0.00	0.00	0.00	0.00	0.00	52.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/14/2006	2.60	0.00	0.00	0.00	0.00	0.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/28/2006	0.25	0.00	0.00	0.00	0.00	0.00	62.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35
7/12/2006	2.40	0.00	0.00	0.00	0.00	0.00	96.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/27/2006	1.74	0.00		0.00	0.00	0.00	98.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00
8/9/2006	2.70	0.00	0.00	0.00	0.00	0.00	45.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00
8/25/2006	0.00	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00				0.00	0.00	0.00	0.00
9/7/2006	0.00	0.00		0.00	0.00	0.00	45.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00
9/20/2006	5.00	0.00	0.00	0.00	0.00	0.00	5.00	0.00	0.00					0.10	0.00	0.00	0.00
10/6/2006	0.00	0.00	0.00	0.00	0.00	0.00	14.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/13/2006	2.00																
10/19/2006	0.00	0.00		0.00	0.00	0.00	8.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/24/2006	5.00																
11/3/2006	1.10	0.00		0.00	0.00	0.00	0.85	0.15	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/12/2007	0.00	0.00		0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/2007	2.00																
1/24/2007	0.10	0.00		0.00	0.00	0.00	42.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/31/2007	0.20																

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-0	MW-1	MW-1A	MW-1R	MW-2	MW-3	MW-4R	MW-4A	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-19
2/7/2007	6.40	0.00		0.00	0.10	0.15	52.40	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
2/21/2007	5.40	0.00		0.00	0.10	0.15	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
2/28/2007	3.10																
3/7/2007	1.40				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/16/2007	0.80																
3/21/2007	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/4/2007	2.10			0.00	0.00	0.00	53.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/19/2007	0.10			0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/4/2007	0.00			0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
5/17/2007	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/1/2007	0.10			0.05	0.00	0.00	0.00	0.10		0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.05
6/15/2007	2.10			0.20	0.00	0.20	36.20	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/29/2007	0.00			0.00	0.00	0.00	42.30	0.00			0.00	0.00		0.00	0.00	0.00	0.00
7/13/2007	0.50			0.00	0.00	0.00	78.60	0.00			0.00	0.00		0.00	0.00	0.00	0.00
7/26/2007	0.00			0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00
8/10/2007	16.60			0.00	0.00	0.00	0.00	0.00						0.00	0.00	0.00	0.00
8/13/2007	18.30																
8/23/2007	4.20			0.00	0.00	0.00	0.00	0.00						0.00	0.00	0.00	0.00
8/31/2007	4.70																
9/7/2007	0.00			0.00	0.00	0.00	9.70	0.00						0.00	0.00	0.00	0.00
9/14/2007	0.00																
9/19/2007	0.00			0.00	0.00	0.00		0.00						0.00	0.00	0.00	1.40
9/28/2007	0.00																
10/5/2007	0.00			0.00	0.00	0.00	0.00	0.00						0.00	0.00	0.00	0.00
10/19/2007	0.55			0.00	0.00	0.00	8.90	0.00						0.00	0.00	0.00	0.00
11/2/2007	0.05			0.00	0.00	0.00	0.05	0.00						0.00	0.00	0.00	0.05
11/16/2007	10.70			0.00	0.00	0.05	1.15	0.00					0.05	0.00	0.05	0.00	0.10
11/21/2007	0.05																
11/30/2007	0.00			0.05	0.00	0.00	0.75	0.00					0.00	0.00	0.00	0.00	0.05
12/6/2007	0.00																
12/11/2007	0.05			0.00	0.05	0.00	0.05	0.00	0.05	0.05	0.10	0.05	0.05	0.05	0.05	0.00	0.05
12/28/2007	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/11/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/22/2008	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/7/2008	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/22/2008	0.00			0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3/12/2008	0.02			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/21/2008	0.35			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/3/2008	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/2008	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/1/2008	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/15/2008	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/30/2008	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
6/11/2008	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00	0.00
6/25/2008	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	
7/11/2008				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	
7/25/2008				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
8/8/2008	0.00		0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-0	MW-1	MW-1A	MW-1R	MW-2	MW-3	MW-4R	MW-4A	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-19
8/22/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/30/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/13/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/26/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/8/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/24/2008	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/9/2009	0.80		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/21/2009	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/4/2009	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/20/2009	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/5/2009	0.50		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/17/2009	0.50		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/2/2009	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/17/2009	0.10		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/29/2009	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/12/2009	0.60		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5/28/2009	0.00		0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/2009	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/26/2009	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/10/2009	2.70		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7/24/2009	2.90		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/7/2009	0.50		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/21/2009	2.70		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/4/2009	0.00		0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/18/2009	3.50		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/2/2009	1.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/2009	1.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/20/2009	3.30		0.00				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
12/4/2009	1.30		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70
12/18/2009	2.80		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/23/2009	4.40																
12/30/2009	0.95		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/15/2010	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/29/2010	0.95		0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/9/2010	3.40		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/2/2010	0.25		0.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/19/2010	0.00		0.00	0.00				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/7/2010	0.40			0.15	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/16/2010	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4/30/2010	0.95		0.15		0.20				0.15			0.20	0.15	0.15	0.10	0.15	0.15
5/14/2010	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.10	0.00
5/28/2010	0.00		0.00		0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/11/2010	0.00		0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6/25/2010	1.25			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.00

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-0	MW-1	MW-1A	MW-1R	MW-2	MW-3	MW-4R	MW-4A	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-19
7/1/2010	3.80																
7/12/2010	0.00			0.00	0.10	0.10		0.10	0.10	0.15	0.10	0.10	0.15	0.00	0.00	0.00	4.25
7/16/2010	0.00																
7/23/2010	5.00			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.60
7/30/2010														0.00	0.00	0.00	
8/5/2010				0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8/13/2010	4.70																
8/20/2010	1.70				0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00
8/27/2010	3.90																
9/2/2010	0.20			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00				2.15
9/10/2010	4.75																
9/16/2010	4.85			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
9/24/2010	0.55																
10/5/2010	2.95			0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
10/8/2010	1.60																
10/14/2010	0.00			0.00	0.00	0.00		0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.20
10/22/2010	10.00																
10/29/2010	10.00			0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
11/5/2010	5.00																
11/12/2010	10.00			0.00	0.00	0.00		0.05	0.00	0.00			0.00	0.00	0.00	0.00	0.00
11/19/2010	10.00																
11/24/2010	10.00			0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/3/2010	0.45																
12/10/2010	10.00			0.00	0.00	0.00		0.05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
12/17/2010	1.25																
12/30/2010	10.00			0.00									0.00	0.00	0.00	0.00	
1/7/2010	10.00																
01/14/11	6.00			0.00	-	-		0.00	-	-	-	-	0.05	0.00	0.00	0.00	-

POST RETROFIT MONITORING DATA

Well	MW-0 REP	MW-1	MW-1A	MW-1R	MW-2	MW-3	MW-4 REP	MW-4A	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12	MW-19 REP
2/17/2012	100.00	NM	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	8.00	NM	NM	NM	100.00
2/23/2012	0.00	NM	NM	NM	NM	NM	100.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	100.00
3/2/2012	34.00	NM	NM	0.00	0.00	0.00	87.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	100.00
3/8/2012	59.00	NM	NM	NM	NM	NM	100.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	100.00
3/16/2012	0.00	NM	0.00	NM	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	NM	NM	NM	100.00
3/21/2012	0.00	NM	NM	NM	NM	NM	95.00	36.00	NM	NM	NM	NM	0.00	NM	NM	NM	100.00
3/30/2012	16.00	NM	0.00	NM	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	100.00
4/6/2012	NM	NM	NM	NM	NM	NM	52.00	10.00	NM	NM	NM	NM	0.00	NM	NM	NM	100.00
4/13/2012	26.00	NM	0.00	NM	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	100.00

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	E1R	E2RR	E3R	E4R	E5R	E6R	E7R	E8R	M1R	M2R	M3R	M4R	M5R	M6R	M7R	M8R	M9R	M10R
08/23/00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09/12/00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09/26/00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/11/00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/22/00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/08/00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/25/00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/06/00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/20/00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/29/00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01/08/01	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01/12/01	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02/09/01	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02/15/01	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02/26/01	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/09/01	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/16/01	0.00	0.05	0.00	0.05	0.00	0.05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/23/01	0.00	0.20	0.00	0.00	0.00	0.04	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/30/01	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/06/01	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/13/01	0.00	0.25	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/20/01	0.00	0.70	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/27/01	0.00	0.70	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/04/01	0.00	1.50	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/11/01	0.00	0.30	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/18/01	0.00	1.75	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/25/01	0.00	0.55	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/01/01	0.00	0.25	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/08/01	0.00	0.50	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/15/01	0.00	1.05	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/22/01	0.00	0.90	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/29/01	0.00	0.60	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/06/01	0.00	0.60	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/13/01	0.00	1.25	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/20/01	0.00	2.50	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/27/01	0.00	0.50	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/03/01	0.00	10.30	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/10/01	0.00	18.60	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/17/01	0.00	0.00	0.00	0.30	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/24/01	1.25	NS	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/31/01	3.50	NS	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09/07/01	1.00	9.90	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09/14/01	NS	0.40	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09/21/01	NS	0.00	NS	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09/28/01	0.00	1.20	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/04/01	0.00	2.50	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/12/01	0.00	2.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/19/01	5.30	14.10	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/26/01	3.30	7.10	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/02/01	0.00	3.10	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/09/01	2.00	3.70	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/16/01	0.00	3.20	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/23/01	1.10	3.30	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/30/01	1.60	2.30	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/07/01	1.30	3.10	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/14/01	1.10	3.20	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/28/01							---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01/04/02	2.20	3.50	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01/25/02	2.00	3.30	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02/18/02	0.00	0.00	0.00	0.00	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/05/02	0.75	1.10	0.05	0.05	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/19/02	1.40	2.40	0.00	0.00	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/02/02	1.10	1.75	0.00	0.00	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/16/02	0.00	0.00	0.00	0.00	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/30/02	0.15	N.O.	0.00	3.00	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/15/02	0.05	N.O.	0.10	0.00	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/28/02	0.00	0.05	0.00	1.00	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/11/02	0.00	N.O.	0.05	0.50	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/28/02	0.00	0.00	0.00	N.M.	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/09/02	0.00	0.00	0.00	0.00	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/24/02	0.00	0.00	0.00	0.00	0.00	N.M.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/07/02	N.M	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/20/02	N.M	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	E1R	E2RR	E3R	E4R	E5R	E6R	E7R	E8R	M1R	M2R	M3R	M4R	M5R	M6R	M7R	M8R	M9R	M10R
09/04/02	N.M.	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09/17/02	0.00	2.20	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/02/02	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/17/02	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/29/02	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/12/02	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/26/02	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/10/02	0.00	2.95	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/23/02	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01/07/03	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01/21/03	0.00	0.00	0.00	0.00	0.15	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02/04/03	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02/19/03	0.00	100.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02/26/03	0.00	100.00		0.00			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/04/03	0.15	100.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/11/03	0.00	100.00	0.00				---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/18/03	0.00	15.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/25/03	0.00	1.75	0.00	0.00			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/01/03	0.00	3.75	0.00	0.00	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/08/03	0.00	1.25	0.00	0.00			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/15/03	0.00	1.55	0.00	0.35	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/21/03	0.00	31.00	0.00	0.00			0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	4.00
04/30/03	0.45	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/07/03	0.50	11.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.20
05/14/03	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/20/03	0.00	8.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/27/03	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/04/03		0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67
06/10/03	0.00	0.80	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/17/03	0.00	0.40	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/24/03	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/02/03	0.00	0.93	0.00	0.00			0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/08/03	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10
07/15/03	0.00	1.68	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.70
07/23/03	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98
07/29/03	0.00	6.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
08/04/03		8.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.40	0.00	0.00	0.00	0.00	0.00	3.20
08/12/03		16.50	0.00	0.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/19/03		29.00	0.00	0.00	0.00	0.00				0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/26/03	0.00	6.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.50
09/03/03	CNA	10.50	0.00	0.00	0.00	0.00	0.00	CNA	CNA	0.00	0.00	0.00	0.00	0.00	0.00	11.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/10/03	0.00	35.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/17/03	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/24/03	0.00	9.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/03/03	0.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/08/03	0.00	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/15/03	0.00	54.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/22/03	0.00	21.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/31/03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/07/03	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/03	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/19/03	0.00	7.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/26/03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/03/03	2.00	8.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/09/03	0.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/15/03	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/24/03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/31/03	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/06/04	0.00	6.50	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/13/04	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/22/04	0.00	23.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/27/04	0.00	2.40	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/04/04	0.00	1.52	NA	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/18/04	0.00	34.00	NA	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/25/04	0.00	2.40	NA	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/04/04	0.00	6.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/08/04	0.00	14.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/17/04	0.00	6.00	NA	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
03/22/04	1.00	2.50	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/29/04	0.00	2.65	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
04/07/04	10.00	80.00	0.00	1.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
04/14/04	0.00	0.00	0.00	1.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/23/04	0.00	31.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	E1R	E2RR	E3R	E4R	E5R	E6R	E7R	E8R	M1R	M2R	M3R	M4R	M5R	M6R	M7R	M8R	M9R	M10R
04/27/04	9.00	37.00	0.00	13.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00
05/06/04	0.00	6.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/11/04	0.00	5.20	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/20/04	0.00	9.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/25/04	0.00	7.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/03/04	0.00	7.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/17/04	0.00	6.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/23/04	0.00	4.82	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/29/04	0.00	2.38	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/09/04	0.00	3.60	0.00	0.00			0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00
07/16/04	0.00	6.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00
07/23/04	0.00	6.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			0.00	0.00	0.00	0.00
07/30/04	0.00	0.55	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			0.00	0.00	0.00	0.00
08/06/04	0.00	2.72	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			0.00	0.00	0.00	0.00
08/11/04	0.00	4.78	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			0.00	0.00	0.00	0.00
08/17/04	1.30	6.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			0.00	0.00	0.00	0.00
08/26/04	0.15	1.90	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			0.00	0.00	0.00	0.00
09/03/04		1.25	0.00	0.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
09/10/04	0.00	1.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00		0.00	0.00		0.00
09/16/04		0.85	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
09/24/04	0.75	2.85	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
10/08/04	0.00	2.28	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05			0.00	0.00	0.00	0.00
10/22/04	0.00	3.88	0.00	0.00	0.00	0.00				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
11/05/04	0.00	2.16	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00		0.00	0.00	0.00	0.00
11/19/04	0.00	2.44	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00		0.00	0.00	0.00	0.00
11/29/04	0.00	0.23	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00		0.00	0.00		0.00
12/16/04	0.00	0.40	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
12/30/04	0.75	0.25	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
01/14/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
01/26/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/08/05	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/25/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/09/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/22/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/06/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/20/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/06/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/17/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/31/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/16/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/30/05	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/15/05	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/26/05	0.00	4.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/29/05	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/05/05	0.00	6.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	4.00
08/12/05	0.00	10.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/19/05	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/26/05	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/09/05	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/26/05	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/07/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/21/05	0.00	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/04/05	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/18/05	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/02/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/14/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/29/05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/10/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/25/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/08/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/22/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/08/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/23/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/07/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/19/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/03/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/17/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/31/06	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/14/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/28/06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/12/06	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/27/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/09/06		0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	E1R	E2RR	E3R	E4R	E5R	E6R	E7R	E8R	M1R	M2R	M3R	M4R	M5R	M6R	M7R	M8R	M9R	M10R
08/25/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/07/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/20/06		0.95	0.00		0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/06/06		0.15	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/19/06		0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
11/03/06		0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/12/07	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
01/24/07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/07/07	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/21/07	0.80	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/07/07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/21/07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/04/07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/19/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/04/07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/17/07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/01/07	0.05	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/15/07	0.20		0.00	0.00	0.00	0.00	0.00		0.80	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.10	0.05	0.00	0.00	0.00	0.00	0.00
06/29/07	0.00		0.00	0.00	0.00	0.00	0.00		1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/13/07	0.00		0.00	0.00	0.00	0.00	0.00		1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/26/07		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/10/07	0.00		0.00	0.00	0.00	0.00			0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/23/07	0.00		0.00	0.00	0.00	0.05			0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/07/07	0.00		0.00	0.00	0.00	0.00			0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
09/19/07				0.00	0.00	0.00					0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
10/05/07			0.00	0.00	0.00	0.00					0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/19/07			0.10	0.00	0.00	0.00					0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
11/02/07			0.00	0.05	0.00	0.00					0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
11/16/07			0.00	0.00	0.00	0.00					0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.05
11/30/07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/11/07	0.05	0.00	0.00	0.00	0.00	0.00	0.05	0.00			0.00		0.00	0.05	0.05	0.05	0.00	0.00	0.00	0.05	0.00	0.05	0.00	0.05
12/28/07	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/11/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/22/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/07/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/22/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00							0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/12/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/21/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/03/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/16/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/01/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/15/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/30/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/11/08		0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00		0.00	0.00			0.00	0.00	0.00
06/25/08		0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/11/08	0.00	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					0.00	0.00		0.00	0.00	0.00
07/25/08	0.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/08/08	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/22/08		0.00				0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/04/08	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/18/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/02/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/30/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/13/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/26/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/08/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/24/08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/09/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/21/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/04/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/20/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/05/09	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/17/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/02/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/17/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/29/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/12/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/28/09	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/11/09		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/26/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/10/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/24/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								

Ferry Point Park
Methane Monitoring

Inaccessible
Destroyed
Clogged

Well	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	E1R	E2RR	E3R	E4R	E5R	E6R	E7R	E8R	M1R	M2R	M3R	M4R	M5R	M6R	M7R	M8R	M9R	M10R
08/07/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/21/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/04/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/18/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/02/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/20/09	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	0.15	0.10	0.00	0.00	0.00		0.00	0.00
12/04/09			0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
12/18/09		2.55	0.00	0.00	0.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		
12/30/09	0.50	0.00	0.00	0.00	0.00						0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/15/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/29/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/09/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/02/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/19/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/07/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/16/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/30/10	0.30	0.15	0.15	0.15	0.15	0.00	0.15	0.00	0.35	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.25	0.00	0.15	0.10	0.00	0.00	0.00
05/14/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.05	0.10	0.10	0.00	0.00	0.05	0.10	0.05	0.05	0.05
05/28/10	0.00	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
06/11/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
06/25/10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.05	0.00	0.10	0.05	0.05	0.00	0.00	0.00
07/01/10		0.00																						
07/12/10			0.00	0.00	0.00	0.10	0.15	0.20	0.15	0.15	0.30	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/16/10		0.00																						
07/23/10	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/30/10		0.60																						
08/05/10	0.00	3.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/13/10		0.00																						
08/20/10	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/27/10		0.00																						
09/02/10	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/10/10		0.00																						
09/16/10	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/24/10		0.00																						
10/05/10	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/08/10		0.00																						
10/14/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/22/10																								
10/29/10	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/05/10																								
11/12/10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/19/10																								
11/24/10	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/03/10																								
12/10/10	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/17/10																								
12/30/10	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/14/11	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

POST RETROFT MONITORING DATA

Well	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	E1R	E2RR	E3R	E4R	E5R	E6R	E7R	E8R	M1R	M2R	M3R	M4R	M5R	M6R	M7R	M8R	M9R	M10R
02/17/12	0.00	0.00	0.00	0.00	0.00	60.00	0.00	0.00	81.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/23/12	NM	NM	NM	NM	NM	NM	NM	NM	100.00	NM	NM	NM	NM	NM	NM	NM	NM	92.00	NM	NM	NM	NM	NM	NM
03/02/12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00
03/08/12	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM
03/16/12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.00	11.00	NM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/21/12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
03/30/12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/06/12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
04/13/12	0.00	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Inaccessible
Destroyed
Clogged
Damaged

Samp. Pt.	Schley South	3R	5	6	7	8	9	10
02/18/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/05/02		0.00	0.00	0.00	0.00	0.05	0.10	0.05
03/19/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/02/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/16/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/30/02		0.05	0.00	0.05	0.05	0.15	0.00	0.05
05/15/02		0.00	0.00	0.00	0.00	0.05	0.00	0.00
05/28/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/11/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/28/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/09/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/24/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/07/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/20/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/04/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/17/02		0.00	N.O.	0.00	0.00	0.00	0.00	0.00
10/02/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/26/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/10/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/23/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/07/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/21/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/04/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/19/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/26/03								
03/04/03		0.00	0.00		0.00			
03/11/03								
03/18/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/25/03								
04/01/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/08/03								
04/15/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/30/03		0.00	0.00	0.00	0.00	CNL	CNL	CNL
05/14/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/27/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/10/03		0.25	0.00	0.00	0.00	0.00	0.00	0.00
06/24/03		0.15	0.00	0.00	0.00	0.00	0.00	0.00
07/08/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/23/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/04/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/19/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/03/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/17/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/03/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/15/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/31/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/11/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/03/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/15/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/31/03		0.00	0.00	0.00	0.00	0.00	0.00	CNL
01/13/04		7.00	0.00	0.00	0.00	0.00	0.00	0.00
01/27/04		1.56	0.00	0.00	NA	0.00	0.00	0.00
02/12/04		0.00	NA	NA	NA	NA	NA	0.00
02/25/04		0.00	0.00	NA	NA	NA	0.00	0.00
03/08/04		0.00	0.00	NA	NA	NA	NA	0.00
03/22/04		0.00	0.00	NA	NA	NA	0.00	0.00
04/07/04		1.00	0.00	0.00	0.00	0.00	0.00	0.00
04/23/04		1.00	0.00	0.00	0.00	0.00	0.00	0.00
05/06/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/20/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/03/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/17/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/29/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/16/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
07/30/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/11/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/26/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/10/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/24/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/08/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/22/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/05/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/19/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/29/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/16/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/30/04		0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/14/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/26/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/08/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/25/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/09/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/22/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/06/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/20/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/06/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/17/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/31/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/16/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/30/05			0.00	0.00	0.00	0.00	0.00	0.00
07/15/05			0.00	0.00	0.00	0.00	0.00	0.00
07/29/05			0.00	0.00	0.00	0.00	0.00	0.00
08/12/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/26/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/09/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/26/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/07/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/21/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/04/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/18/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/02/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/07/05								
12/14/05			0.00	CNL	0.00	0.00	0.00	0.00
12/21/05								
12/29/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/04/06								
01/10/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/18/06								
01/25/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/02/06								
02/08/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/15/06								
02/22/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/01/06								
03/08/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/16/06								
03/23/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/29/06								
04/07/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/12/06								
04/19/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/26/06								
05/03/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/10/06								
05/17/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00
05/24/06								

Samp. Pt.	Schley North	4A	5	7R	7A
02/18/02		0.00	0.00	0.00	0.00
03/05/02		0.00	0.00	0.10	0.05
03/19/02		0.00	0.00	0.00	0.00
04/02/02		0.00	0.00	0.00	0.00
04/16/02		0.00	0.00	0.00	0.00
04/30/02		0.00	0.00	0.10	0.10
05/15/02		0.05	0.05	0.05	0.05
05/28/02		0.00	0.00	0.00	0.00
06/11/02		0.00	0.00	0.00	0.00
06/28/02		0.00	0.00	N.O.	0.00
07/09/02		0.00	0.00	N.O.	0.00
07/24/02		0.00	0.00	N.O.	0.00
08/07/02		0.00	0.00	0.00	0.00
08/20/02		0.00	0.00	0.00	0.00
09/04/02		0.00	0.00	0.00	0.00
09/17/02		0.00	0.00	0.00	0.00
10/02/02		0.00	0.00	0.00	0.00
10/17/02		0.00	0.00	0.00	0.00
10/29/02		0.00	0.00	0.00	0.00
11/12/02		0.00	0.00	0.00	0.00
11/26/02		0.00	0.00	0.00	0.00
12/10/02		0.00	0.00	0.00	0.00
12/23/02		0.00	0.00	0.00	0.00
01/07/03		0.00	0.00	0.00	0.00
01/21/03		0.00	0.00	0.00	0.00
02/04/03		0.00	0.00	0.00	0.00
02/19/03		0.00	0.00	0.00	0.00
02/26/03					
03/04/03			0.00	0.05	
03/11/03					
03/18/03		0.00	0.00	0.00	0.00
03/25/03					
04/01/03		0.00	0.00	0.00	0.00
04/08/03					
04/15/03		0.00	0.00	0.00	0.00
04/30/03		0.00	0.00	0.00	0.00
05/14/03		0.00	0.00	0.00	0.00
05/27/03		0.00	0.00	0.00	0.00
06/10/03		0.00	0.00	0.00	0.15
06/24/03		0.00	0.00		0.00
07/08/03		0.00	0.00		0.00
07/23/03		0.20	0.15		0.00
08/04/03		0.00	0.00		0.00
08/19/03		0.00	0.00		0.00
09/03/03		0.00	0.00		0.00
09/17/03		0.00	0.00		0.00
10/03/03		0.00	0.00		0.00
10/15/03		0.00	0.00		0.00
10/31/03		0.00	0.00		0.00
11/11/03		0.00	0.00		0.00
12/03/03		0.00	0.00		0.00
12/15/03		0.00	0.00		0.00
12/31/03		0.00	0.00		0.00
01/13/04		0.00	0.00		0.00
01/27/04		0.00	0.00		0.00
02/12/04		0.00	0.00		NA
02/25/04		0.00	0.00		0.00
03/08/04		1.00	0.00		0.00
03/22/04		0.00	0.00		0.00
04/07/04		0.00	0.00		2.00
04/23/04		0.00	0.00		1.00
05/06/04		0.00	0.00		0.00
05/20/04		0.00	0.00		0.00
06/03/04		0.00	0.00		0.00
06/17/04		0.00	0.00		0.00
06/29/04		0.00	0.00		0.00
07/16/04		0.00	0.00		0.00
07/30/04		0.00	0.00		0.00
08/11/04		0.00	0.00		0.00
08/26/04		0.00	0.00		0.00
09/10/04		0.00	0.00		0.00
09/24/04		0.00	0.00		0.00
10/08/04		0.00	0.00		0.00
10/22/04		0.00	0.00		0.00
11/05/04		0.00	0.00		0.00
11/19/04		0.00	0.00		0.00
11/29/04		0.00	0.00		0.00
12/16/04		0.00	0.00		0.00
12/30/04		0.00	0.00		0.00
01/14/05		0.00	0.00		0.00
01/26/05		CNM	CNM		CNM
02/08/05		0.00	0.00		0.00
02/25/05		0.00	0.00	0.00	0.00
03/09/05		0.00	0.00	0.00	0.00
03/22/05		0.00	0.00	0.00	0.00
04/06/05		0.00	0.00	0.00	0.00
04/20/05		0.00	0.00	0.00	0.00
05/06/05		0.00	0.00	0.00	0.00
05/17/05		0.00	0.00	0.00	0.00
05/31/05		0.00	0.00	0.00	0.00
06/16/05		0.00	0.00	0.00	0.00
06/30/05		0.00	0.00	0.00	0.00
07/15/05		0.00	0.00	0.00	0.00
07/29/05		0.00	0.00	0.00	0.00
08/12/05		0.00	0.00	0.00	0.00
08/26/05		0.00	0.00	0.00	0.00
09/09/05		0.00	0.00	0.00	0.00
09/26/05		0.00	0.00	0.00	0.00
10/07/05		0.00	0.00	0.00	0.00
10/21/05		0.00	0.00	0.00	0.00
11/04/05		0.00	0.00	0.00	0.00
11/18/05		0.00	0.00	0.00	0.00
12/02/05		0.00	0.00	0.00	0.00
12/07/05					
12/14/05		0.00	0.00	0.00	0.00
12/21/05					
12/29/05		0.00	0.00	0.00	0.00
01/04/06					
01/10/06		0.00	0.00	0.00	0.00
01/18/06					
01/25/06		0.00	0.00	0.00	0.00
02/02/06					
02/08/06		0.00	0.00	0.00	0.00
02/15/06					
02/22/06		0.00	0.00	0.00	0.00
03/01/06					
03/08/06		0.00	0.00	0.00	0.00
03/16/06					
03/23/06		0.00	0.00	0.00	0.00
03/29/06					
04/07/06		0.00	0.00	0.00	0.00
04/12/06					
04/19/06		0.00	0.00	0.00	0.00
04/26/06					
05/03/06		0.00	0.00	0.00	0.00
05/10/06					
05/17/06		0.00	0.00	0.00	0.00
05/24/06					

Samp. Pt.	Buttrick	1	2R	3R	4R	5	6	8	9	10	12R	13R	14R	16R	17R	18
02/18/02		N.M.				0.00	0.00	0.00	17.00	0.00	0.00		0.00			
03/05/02		0.00				0.00	0.00	0.00	67.00	0.00	0.00		0.00	0.00		
03/19/02		0.00				0.00	0.00	0.00	87.00	N.O.	0.00		0.00	0.00		
04/02/02		0.00				0.00	0.00	0.00	87.00	N.O.	0.00		0.00	0.00		
04/16/02		0.00				0.00	0.00	0.00	100.00	N.O.	0.00		0.00	0.00		
04/30/02		0.00				0.00	N.O.	0.00	32.00	N.O.	0.00		N.F.	0.00		
05/15/02		0.00				0.00	N.O.	0.00	5.00	N.O.	0.00		N.F.	0.00		
05/28/02		0.00				0.00	N.O.	0.00	54.00	N.O.	N.O.		N.F.	0.00		
06/11/02		0.00				N.O.	N.O.	0.00	37.50	N.O.	N.O.		N.F.	N.O.		
06/28/02		0.00				N.O.	N.O.	N.O.	N.O.	N.O.	N.O.		N.O.	N.O.		
07/09/02		0.00				N.O.	N.O.	N.O.	N.O.	N.O.	N.O.		N.O.	N.O.		
07/24/02		0.00				N.O.	N.O.	N.O.	N.O.	N.O.	N.O.		N.O.	N.O.		
08/07/02		0.00				0.00	0.00	2.50	73.00	0.00	0.00		0.00	0.00		
08/20/02		0.00				0.00	0.00	2.60	3.75	0.00	0.00		0.00	0.00		
09/04/02		0.00				0.00	0.00	1.25	7.00	0.00	0.20		0.00	0.00		
09/17/02		0.00				0.00	0.00	0.00	0.00	26.00	0.00		2.50	0.00		
10/02/02		0.00				0.00	0.00	20.00	0.00	21.00	0.00		0.00	0.00		
10/17/02		0.00				0.00	0.00	0.00	20.00	1.50	0.00		0.00	0.00		
10/29/02		0.00				0.00	0.00	0.00	3.00	4.50	0.00		0.58	0.00		
11/12/02		0.00				0.00	0.00	0.00	18.00	0.00	0.00		0.00	0.00		
11/26/02		0.00				0.00	0.00	0.00	0.00	24.00	0.00		0.00	0.00		
12/10/02		0.00				0.00	0.00	2.00	100.00	4.50	0.20		0.00	0.00		
12/23/02		0.00				0.00	0.00	3.20	0.00	18.00	0.00		0.00	0.00		
01/07/03		N.O.				0.00	0.58	0.00	0.00	42.00	0.00		0.00	0.00		
01/21/03		0.00				0.00	0.00	0.55	11.00	11.00	0.00		0.00	0.00		
02/04/03		0.00				0.00	0.00	0.00	0.00	24.00	0.00		0.00	0.00		
02/19/03		0.00				0.00	0.00	2.00	100.00	4.50	0.20		0.00	0.00		
02/26/03		0.00				0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00		
03/04/03		0.00				0.00	0.00	0.00	0.00	1.60	0.00		1.20	0.00		
03/11/03																
03/18/03		0.00				0.00	0.00	0.00	0.00	4.00	0.00		2.50	0.00		
03/25/03																
04/01/03		0.00				0.00	0.00	0.00	0.00	4.00	0.00		2.50	0.00		
04/08/03																
04/15/03		0.00				0.00	0.00	0.00	0.00	2.35	0.00		0.80	0.00		
04/30/03		0.00				0.00	0.00	0.00	0.00	12.00	0.05		0.30	0.00		
05/14/03		0.00					0.00	0.00	0.00	4.80	0.00		0.00	0.00		
05/27/03		0.00					0.00	0.00	0.00	2.08	0.00		1.10	0.00		
06/10/03		0.00					0.00	0.00	0.00	0.80	0.00		0.00	0.00		
06/24/03		0.15					0.00	0.00	0.00	2.68	0.00		0.00	0.00		
07/08/03		0.00					0.00	0.00	0.00	6.00	0.00		0.00	0.00		
07/23/03		0.00					0.00	0.46	0.00	0.30	0.00		0.15	0.00		
08/04/03		0.00					0.00	0.00	0.00	3.90	0.00		0.00	0.00		
08/19/03		0.00					0.00	0.00	0.00	0.56	0.00		0.00	0.00		
09/03/03		0.00					0.00	0.00	0.40	18.50	4.00		0.00	11.00		
09/17/03		0.00					0.00	0.00	0.00	6.00	7.00		0.00	0.00		
10/03/03		0.00					0.00	0.00	0.00	6.00	0.00		0.00	0.00		
10/15/03		0.00					0.00	0.00	0.00	0.00	0.00		0.00	30.00		
10/31/03		0.00					0.00	0.00	0.00	0.00	0.00		0.00	0.00		
11/11/03		0.00					0.00	0.00	0.00	1.06	0.00		0.00	0.00		
12/03/03		0.00					0.00	0.00	0.00	7.00	0.00		1.00	0.00		
12/15/03		0.00					0.00	0.00	0.00	0.00	0.00			0.00		
12/31/03		0.00					0.00	0.00	0.00	43.00	0.00			0.00		
01/13/04		0.00					0.00	0.00	0.00	3.06	0.00			0.00		
01/27/04		0.00					0.00	0.00	7.20	14.00	0.00			0.00		
02/12/04		0.00					0.00	0.00	0.00	0.00	0.00			0.00		
02/25/04		0.00					0.00	0.00	0.00	0.13	0.00			0.00		
03/08/04		1.00					0.00	0.00	0.00	0.00	0.00			0.00		
03/22/04		1.00					0.00	0.00	0.00	1.05	0.00					
04/07/04		1.00					0.00	0.00	0.00	93.00	0.00					
04/23/04		0.00					0.00	0.00	0.00	36.00	0.00					
05/06/04		1.00					0.00	0.00	0.00	0.00	0.00					
05/20/04		0.00					0.00	0.00	0.00	21.00	0.00					
06/03/04		0.00					0.00	0.00	0.00	0.00	0.00					
06/17/04		0.00					0.00	0.00	0.00	3.24	0.00					
06/29/04		0.00					0.00	0.00	0.00	2.80	0.00					
07/16/04		0.00					0.00	0.00	0.00	0.00	0.00					
07/30/04		0.00					0.00	0.00	0.00	0.00	0.00					
08/11/04		0.00					0.00	0.00	0.00	0.00	0.00					
08/26/04		0.00						0.00	0.00	3.30	0.05					
09/10/04		0.00						0.00	0.00	0.50	1.35					
09/24/04		0.00						0.00	0.00	2.40	0.10					
10/08/04		0.00						0.00	0.00	0.68	0.00					
10/22/04		0.00					0.00	0.00	0.00	2.40	0.10					
11/05/04		0.00					0.00	0.00	0.00	0.00	0.00					
11/19/04		0.00					0.00	0.00	0.00	0.00	0.00					
11/29/04		0.00					0.00	0.00	0.00	0.00	0.00					
12/16/04		0.00					0.00	0.00	0.00	0.00	0.00					
12/30/04		0.00					0.00	0.00	0.00	0.00	0.00					
01/14/05		0.00					0.00	0.00	0.00	0.00	0.00					0.00
01/26/05		0.00					0.00	0.00	0.00	0.00	0.00					
02/08/05		0.00						0.00	0.00	0.00	0.00					0.00
02/25/05		0.00	0.00	0.00	0.00		0.00	0.00	0.00	8.00	0.00	0.00	0.00	5.20	0.00	0.00
03/09/05		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/22/05		0.00	0.00	0.00	0.00		0.00		0.00	6.00	6.00	5.50	0.00	7.00	20.40	0.00
04/06/05		0.00	0.00	0.00	0.00		0.00		0.00	9.00	1.70	0.45	0.00	9.00	0.35	0.00
04/20/05		0.00	0.00	0.00	0.00		0.00	0.00	2.68	9.00	2.72	1.16	7.00	6.00	0.00	0.00
05/06/05		0.00	0.00	0.00	0.00		0.00	0.00	0.00	9.00	7.00		CNL	8.00	1.50	0.00
05/17/05		0.00	0.00	0.00	0.00		0.00	0.00	0.00	1.94	7.00		0.15

Inaccessible
Destroyed
Clogged
Damaged

Samp. Pt.	Schley South	3R	5	6	7	8	9	10	Schley North	4A	5	7R	7A	Buttrick	1	2R	3R	4R	5	6	8	9	10	12R	13R	14R	16R	17R	18	Balcom	Balcom-2	Balcom-4
05/31/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	18.00	12.00	0.00	0.00	5.25	0.00	0.00		0.00	0.00
06/07/06																							18.00	19.00			10.00					
06/14/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	15.00	0.00	0.00	0.00	0.53	0.00	0.00		0.00	0.00
06/21/06																							8.00	1.92			0.50					
06/28/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	1.74		0.00	0.00	0.00	7.00	8.00	0.35	0.00	8.00	7.00	0.00		0.00	0.00
07/06/06																		0.00					8.00	3.78			17.00	0.00				
07/12/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	14.00	7.00	2.34	1.32	16.00	0.00	0.00		0.00	0.00
07/19/06																		0.00					15.00	5.15	3.50	4.50	8.00	3.00				
07/27/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	3.64	1.30	0.00	21.00	0.00	0.00		0.00	0.00
08/03/06																							0.45	0.25			14.00	0.00				
08/09/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	10.00	6.00	0.80	0.25	2.40	0.00	0.00		0.00	0.00
08/17/06																							6.00	4.56			0.15	0.00				
08/25/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		3.30	0.00	0.00	2.20	6.00	2.60	0.00	0.00	0.00	0.00		0.00	0.00
08/30/06																							0.55	7.00			10.00					
09/07/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	1.52	6.00	0.00	0.75	5.25	0.35	0.00		0.00	0.00
09/15/06																							1.05	0.25			0.25					
09/20/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	3.00	10.00	0.00	0.00	0.00	3.00	0.00		0.00	0.00
09/29/06																							0.00	0.00			2.00					
10/06/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		4.00	0.00	0.00	3.00	6.00	0.00	0.15	0.55	0.00	0.00		0.00	0.00
10/13/06																				0.00			7.00	0.15			2.00					
10/19/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	7.00	6.00	0.00	1.50	13.00	0.00	0.00		0.00	0.00
10/24/06																				0.10			9.00	0.00			10.00					
11/03/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.05	0.00	0.00	0.00		0.00	0.00	0.15	0.00		0.00	0.00	0.00	18.00	0.75	0.05	0.00	0.70	0.25	0.15		0.00	0.00
01/12/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	6.00	0.00	0.00	0.00	3.00	2.00	0.00		0.00	0.00
01/15/07																							14.00	18.00			4.00					
01/24/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	13.00	0.70	0.00	0.00	3.80	0.70	0.00		0.00	0.00
01/31/07																							10.20	0.00			0.50					
02/07/07		0.00	0.10	0.10	0.00	0.00	0.10	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00			0.00	0.00	0.00	22.00	0.00		1.00	2.30	0.00	0.00		0.00	0.20
02/16/07																							0.10	0.00			0.10					
02/21/07		0.00	0.00		0.00			0.00		0.00	0.00		0.00		0.00	0.00	0.00			0.00	0.00	0.20	0.00	2.30	0.00	0.30		0.00	0.00		0.00	
02/28/07																							0.00				6.50					
03/07/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00			0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
03/16/07																											3.30					
03/21/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
03/28/07																											0.10					
04/04/07		0.00	0.00	0.00	0.00	0.20	0.00	0.10		0.20	0.00	0.00	0.00		0.00	0.10	0.00	0.10		0.00	0.00	0.00	2.00	14.80	0.00	0.00	0.40	0.80	0.00		0.00	0.00
04/13/07																								0.00								
04/19/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
04/26/07																								0.00								
05/04/07		0.00	0.00	0.00	0.10	0.00	0.00	0.10		0.10	0.00	0.10	0.00		0.10	0.00	0.10	0.10		0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.30	0.10	0.00		0.00	0.00
05/17/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.10		0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00		0.00	0.00
06/01/07		0.10	0.00	0.05	0.00	0.05	0.00	0.05		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.05	0.00	0.00	0.10	0.00	0.05	0.00	0.00	0.05	0.05		0.00	0.00
06/15/07		0.00	0.10	0.00	0.20	0.00	0.00	0.20		0.15	0.00	0.00	0.00		0.25	0.10	0.05	0.00		0.00	0.20	0.10	5.00	0.25	0.30	0.35	0.90	0.20	0.00		0.15	0.05
06/19/07																							0.00									
06/29/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	18.40	1.40	5.30	0.00	0.90	0.00	0.00		0.00	0.00
07/06/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	9.20	0.00	1.20	0.00		0.00	0.00		0.00	0.00
07/13/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	1.40	7.80	0.00	0.00		0.00	0.00
07/20/07																							0.20		0.00		21.50					
07/26/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
08/03/07																											8.80					
08/10/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	5.90	0.00	0.00	0.00	3.80	0.00	0.00		0.00	0.00
08/13/07																							4.20				0.30					
08/23/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	3.20	0.00	0.00	0.00	1.30	6.20	0.00		0.00	0.00
08/31/07																							1.10				6.50	1.10				
09/07/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	1.40	0.00	0.00		0.00	0.00
09/14/07																							0.05				1.20	0.00				
09/19/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.25		0.00	0.00	0.00	0.00	11.00	0.00	0.00			0.00
09/28/07																							0.04				9.00	0.00				
10/05/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		1.30	4.20	0.20	0.00	1.80	0.00	0.00		0.00	0.00
10/12/07																											16.10					
10/19/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.05	11.60	1.60	0.00	16.40	0.00	0.00		0.00	0.00
10/25/07																								1.60			2.50					
11/02/07		0.00	0.20	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.10	0.00		3.80	0.35	0.15	0.10	2.00	0.00	0.05		0.00	0.00
11/05/07																								0.70			13.10					
11/16/07		0.00	0.00	0.05	0.00	0.00	0.00	0.05		0.10	0.05	0.00	0.00		0.15	0.00	0.00	0.00		0.10			9.90	0.05	0.05	0.05	19.70	0.00	0.10		0.00	0.00
11/21/07																							23.80				11.40					
11/30/07		0.00	0.20	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.10	0.00		0.15	0.00	0.00	0.20	1.20	0.00	0.00		0.00	0.00
12/06/07																							0.68				0.22					
12/11/07		0.05	0.00	0.05	0.00	0.00	0.05	0.05		0.10		0.05	0.05		0.00	0.05	0.00	0.00		0.00	0.10		10.80	0.00	0.05	0.00	5.40	0.00	0.00			
12/21/07																							0.00				0.00					
12/28/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.40	0.00	0.00	0.00	0.00	0.00	0.00			
01/04/08																							0.00				0.00					
01/11/08		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.15	0.14		0.00	0.00
01/22/08		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.15	0.00	0.00	0.00	0.00	0.00		0.00	0.00
02/07/08		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.11	0.00	0.00	0.03	0.00	0.00		0.00	0.00
02/22/08																											0.00					
03/12/08		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.01	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
03/21/08		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
04/03/08		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		1.90	0.00	0.00	0.00	0.00	0.75	0.00		0.00	0.00
04/16/08		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		2.40	0.00	0.00	0.00	1.60	0.00	0.00		0.00	0.00
05/01/08		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		4.20	0.00	0.00	0.00	2.70	0.00	0.00			0.00
05/08/08																							0.25									
05/15/08		0.00	0.00		0.00		0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		4.80	0.00	0.00	0.00	0.70	0.45	0.00			0.00
05/23/08																							2.80									
05/30/08		0.00	0.00		0.00			0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		4.90	0.00	0.00	0.00	1.80	0.00	0.00			0.00
06/06/08																							4.00									
06/11/08		0.00	0.00		0.00			0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.80	0.00	0.00	0.00	2.20	0.45	0.00			0.00
06/19/08																							0.20									
06/25/08		0.00	0.00		0.00			0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.45	0.00	0.00			
07/11/08		0.00	0.00		0.00			0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		2.00	0.00	0.00	0.00	0.50	0.00	0.00			0.00
07/25/08		0.00	0.00		0.00			0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.40	0.00	0.00			0.00
08/08/08		0.00		1.30	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	1.20	0.45	0.00	0.00	0.00	0.85	0.00	0.00		0.00	0.00
08/22/08		0.00		1.80	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	3.10	0.40	0.00	0.00	0.00		0.00	0.00		0.00	0.00
09/04/08		0.00		0.75	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	2.80	0.40	0.00	0.00	0.00		0.00	0.00		0.00	0.00
09/18/08		0.00		0.00	0.00	0.00	2.50	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
10/02/08		0.00		0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
10/16/08		0.00		0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
10/30/08		0.00		0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00		0.00	0.00
11/13/08		0.00		0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	2.90	2.50	0.00	0.00	0.00	0.95	0.00	0.00		0.00	0.00
11/26/08		0.00		0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
12/08/08		0.00		0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00		0.10	0.90	0.00	0.00	0.00	0.95	0.00	0.00		0.00	0.00
12/24/08		0.00		0.00	0.00	0.00	0.00									0.00	0.00				0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
01/09/09		0.00		0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
01/21/09		0.00		0.00	0.00	0.00	0.00				0.00						0.00	0.00			0.00		0.85		0.00	0.00	0.00	0.00	0.00			
02/05/09		0.00																			0.00		0.00					0.00				
02/20/09		0.00		0.00	0.00	0.00	0.00			0.60	0.00	0.00	0.00		0.00	0.00	0.50	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00		0.00	0.00
03/05/09		0.00								0.00					0.00	0.00						0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00			
03/17/09		0.00		0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00		0.00	1.50	1.00	0.00	0.00	0.00	0.00	0.90		0.00	0.00
04/02/09		0.00		0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00		0.50	1.50	0.00	0.00	0.00	0.20	0.00	0.00		0.00	0.00
04/17/09		0.00		2.10	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00		0.00	4.20	0.00	0.00	0.00	0.00	0.00	0.25		0.00	0.00
04/29/09		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
05/12/09		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	2.70	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.25		0.00	0.00
05/28/09		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
06/11/09		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
06/26/09		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
07/10/09		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.50	0.00	0.00		0.00	0.00
07/24/09		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
08/07/09		0.00		0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00
08/21/09		0.00		0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00
09/04/09		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00
09/18/09		0.00	0.00	0.00	0

Inaccessible
Destroyed
Clogged
Damaged

Samp. Pt.	Schley South	3R	5	6	7	8	9	10	Schley North	4A	5	7R	7A	Buttrick	1	2R	3R	4R	5	6	8	9	10	12R	13R	14R	16R	17R	18	Balcom	Balcom-2	Balcom-4
01/29/10		0.20	0.00	3.45	0.00	0.00	0.00	0.00		0.30	0.50	0.25	0.00		0.30	0.00	0.25	0.00		0.00	1.40	0.80	0.20	0.00	0.15	0.00	0.00	0.00	0.00		0.35	0.00
02/09/10		0.00	0.00	4.50	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.35	3.50	2.15	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
03/02/10		0.00	0.25	4.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.35	0.00
03/19/10		0.00	0.00	4.90	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
04/07/10		0.10	0.30	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.10	0.15	0.00	0.00	0.00	0.00	0.00		0.00	0.00
04/16/10		0.00	3.35	3.50	0.00	2.05	0.30	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	2.00	3.83	0.00	0.00	0.30	0.00	0.95	0.00	0.00		0.00	0.00
04/30/10		0.10	0.20	0.20	0.15	0.20	0.10	0.10		0.20	0.20	0.15	0.10		0.15	0.10	0.15	0.15		0.15	0.25	4.10	0.15	0.15	0.15	0.15	0.25	0.00	0.30		0.20	0.10
05/14/10		0.05	0.00	0.05	0.10	0.05	0.00	0.10		0.10	0.05	0.05	0.10		0.05	0.05	0.05	0.00		0.10		0.05	0.10	0.05	0.05	0.10	0.10	0.05	0.10		0.00	0.00
05/28/10		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	5.00	0.00	0.00	0.00	2.30	0.00	0.00		0.00	0.00
06/11/10		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.05	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
06/25/10		0.40	0.00	0.40	0.05	0.00	0.00	0.05		0.00	0.00	0.00	0.00		0.00	0.00	0.05	0.05		0.05	0.70	0.20	5.00	0.05	0.10	0.05	0.10	0.00	0.00		0.00	0.00
07/01/10				0.00																			5.00				0.00					
07/12/10		0.00	0.00	0.95	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
07/16/10				0.00																			0.00				5.00					
07/23/10		0.00	0.05	3.35	0.00	0.00	0.00	0.00		0.05	0.05	0.05	0.00		0.05	0.05	0.05	0.00		0.00	4.40	5.00	4.45	0.15	0.45	0.00	4.95	0.00	0.00		0.00	0.00
07/30/10				1.40																			2.85				2.50					
08/05/10		0.00	0.35	0.25	0.00	0.00	0.00	0.00		0.05	0.00	0.00	0.00		0.00	0.05	0.00	0.10		0.15	4.50	0.00	1.05	0.00	0.00	0.00	5.00	0.00	0.00		0.00	0.00
08/13/10				2.45																			1.50				0.00					
08/20/10		0.00	0.00	0.25	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.05		0.00	0.00	0.00	0.05		0.00	3.55	1.75	0.30	0.00	0.25	0.10	0.00	0.00	0.00		0.00	0.00
08/27/10				0.00																			10.00				0.00					
09/02/10		0.00	0.00	0.25	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	0.00	0.00		0.00	0.00
09/10/10				0.00																			4.50				0.00					
09/16/10		0.00	4.50	0.00	1.30	0.20	1.30	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.05		0.00	3.60	5.00	5.00	0.00	0.85	0.00	4.25	0.00	0.00		0.00	0.00
09/24/10				0.00																			0.00				0.00					
10/05/10		0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.05		0.00	3.40	10.00	3.30	0.00	0.00	1.65	0.00	0.00	0.00		0.00	0.00
10/08/10																							0.65				0.00					
10/14/10		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.05		0.00	3.70	4.20	10.00	0.00	0.00	0.00	1.65	0.00	0.00		0.00	0.00
10/22/10																						0.00	0.00				0.00					
10/29/10		0.00	0.00	0.00	0.00	0.20	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	9.00	10.00	10.00	0.00	0.00	0.00	2.45	0.00	0.00		0.00	0.00
11/05/10																					0.00	0.00	5.00				0.00					
11/12/10		0.00	0.00	2.15	0.00	0.20	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	2.50	10.00	10.00	0.50	0.00	0.50	3.05	0.05	0.00		0.00	0.00
11/19/10																																
11/24/10		0.00	0.00	0.30	0.00	0.00	0.00	0.00																								
12/03/10																																
12/10/10		0.00	0.00	0.05	0.00	0.00	0.00	0.00																								
12/17/10																																
12/30/10		0.00								0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.35	0.60	0.00			
01/07/10																						2.90	5.00				0.00					
01/14/11		0.00	-	-	-	0.00	-	-		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	0.05	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00		-	-

POST RETROFIT MONITORING DATA

Samp. Pt.	Schley South	3R	5	6	7	8	9	10	Schley North	4A	5	7R	7A	Buttrick	1	2R	3R	4R	5	6	8	9	10	12R	13R	14R	16R	17R	18	Balcom	Balcom-2	Balcom-4
02/17/12		0.00	0.00	100.00	0.00	100.00	0.00	5.00		0.00	0.00	0.00	0.00		0.00	NM	0.00	0.00	NM	0.00	0.00	8.00	0.00	0.00	0.00	28.00	33.00	0.00	0.00		0.00	0.00
02/23/12		NM	NM	0.00	NM	0.00	NM	NM		NM	NM	NM	NM		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM		NM	NM
03/02/12		0.00	0.00	6.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	NM	0.00	0.00	NM	0.00	0.00	0.00	NM	0.00	0.00	36.00	0.00	0.00	0.00		0.00	0.00
03/08/12		NM	NM	NM	NM	NM	NM	NM		NM	NM	NM	NM		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		NM	NM
03/16/12		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	NM		0.00	NM	0.00	0.00	NM	0.00	4.00	0.00	NM	100.00	0.00	27.00	10.00	0.00	0.00		0.00	0.00
03/21/12		NM	NM	NM	NM	NM	NM	NM		NM	NM	NM	NM		NM	NM	NM	NM	NM	NM	NM	NM	NM	0.00	NM	0.00	NM	NM	NM		NM	NM
03/30/12		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	NM	0.00	0.00	NM	75.00	0.00	0.00	65.00	77.00	25.00	4.00	0.00	0.00	0.00		0.00	0.00
04/06/12		NM	NM	NM	NM	NM	NM	NM		NM	NM	NM	NM		NM	NM	NM	NM	NM	NM	NM	NM	NM	23.00	NM	0.00	NM	NM	NM		NM	NM
04/13/12		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00	NM	0.00	0.00	NM	0.00	34.00	0.00	89.00	100.00	100.00	0.00	100.00	0.00	0.00		0.00	0.00

Inaccessible
Destroyed
Clogged
Damaged

Samp. Pt.	Miles	1M	2M	3M	4M	5M	6M	7M	8M	9M	10M	11M	12M	13M	14M	17M	19M	20M	21M
02/18/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/05/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N.M.	0.00	N.M.	0.00	0.00	N.M.	0.00	0.00	0.00
03/19/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N.M.	N.M.	N.M.	0.00	0.00	N.M.	0.00	N.M.	0.00
04/02/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N.M.	0.00	0.00	0.00	0.00	0.00	0.00
04/16/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/30/02		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	N.M.	N.M.	N.M.	N.M.	0.05	0.05	N.O.	0.00	N.M.	N.M.
05/15/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N.M.	N.M.	N.M.	N.M.	0.10	N.O.	N.O.	0.00	N.M.	N.M.
05/28/02		0.00	0.00	0.00	0.00	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.M.	N.O.	N.O.	0.00	0.00	0.00
06/11/02		0.00	0.00	0.00	0.00	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	0.00	N.O.	N.O.	N.O.	0.00	0.00
06/28/02		0.00	0.00	0.00	0.00	0.00	0.00	N.O.	0.00	N.O.	N.O.	N.O.	N.O.	0.00	N.O.	0.00	N.O.	0.00	0.00
07/09/02		0.00	0.00	0.00	0.00	0.00	0.00	N.O.	0.00	N.O.	N.O.	N.O.	N.O.	0.00	N.O.	N.O.	0.00	0.00	0.00
07/24/02		0.00	0.00	0.00	0.00	0.00	0.00	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	0.00	N.O.	N.O.	0.00	0.00	N.O.
08/07/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/20/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/04/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/17/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/02/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N. O.	0.00	0.00	0.00
11/26/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/10/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/23/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/07/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N.O.	0.00	0.00	0.00
01/21/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/04/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/19/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/04/03				0.00				0.00		0.00			0.00	0.00	0.00		0.00		0.00
03/18/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/25/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05		0.05
04/01/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/08/03										0.00									
04/15/03		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/30/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/14/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/27/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/10/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/24/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/08/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/23/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/04/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/19/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09/03/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09/17/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/03/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/15/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/31/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/11/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/03/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/15/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/31/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01/13/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01/27/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02/12/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02/25/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/08/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/22/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/07/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/21/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/06/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/20/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/03/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/17/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/29/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/16/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/30/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/11/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/08/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/22/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/05/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/19/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/15/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
07/29/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
08/12/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
08/26/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
09/09/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
09/26/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
10/07/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
10/21/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
11/04/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
11/18/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
12/02/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
12/14/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
12/29/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
01/10/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
01/25/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
02/08/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
02/22/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
03/08/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
03/23/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
04/07/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
04/19/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
05/03/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
05/17/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
05/31/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
06/14/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
06/28/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
07/12/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
07/27/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
08/09/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
08/25/06		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00								
09/07/06		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
09/20/06		0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00								
10/06/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
10/19/06		0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00								
11/03/06		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
01/12/07		0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00								
01/24/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
02/07/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
02/21/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
03/07/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
03/21/07		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								

Samp. Pt.	Emerson	1E	2E	3E	4E	5E	6E	7E	8E	9E	10E	11E	12E	13E	14E	15E	16E
02/18/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N.M.	0.00	0.00	0.00	0.00	0.00	0.00
03/05/02		0.05	0.00	0.00	0.00	0.00	0.00	N.M.	N.M.	N.M.	N.M.	0.00	0.00	0.00	0.00	0.00	0.10
03/19/02		0.00	0.00	0.00	0.00	0.00	0.00	N.M.	N.M.	N.M.	N.M.	N.M.	0.00	0.00	0.00	0.00	0.00
04/02/02		0.00	0.00	0.00	0.00	0.00	0.00	N.M.	N.M.	0.00	N.M.	N.M.	0.00	0.00	N.M.	0.00	0.00
04/16/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/30/02		0.05	N.O.	N.M.	0.05	N.M.	0.05	N.M.	0.05	N.M.	N.M.	N.M.	0.05	N.M.	0.00	N.O.	N.M.
05/15/02		5.00	N.O.	0.00	0.00	N.M.	0.00	N.M.	0.00	N.M.	N.M.	N.M.	N.M.	N.M.	N.M.	N.M.	0.00
05/28/02		0.75	N.O.	0.00	0.00	N.M.	N.M.	N.M.	N.M.	N.M.	N.M.	N.M.	0.00	N.O.	N.O.	N.O.	N.O.
06/11/02		N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.M.	0.00	N.O.	N.O.	N.O.	N.O.
06/28/02		N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.M.	0.00	N.O.	N.O.	N.O.	N.O.
07/09/02		N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	0.00	N.O.	0.00	N.O.	N.O.
07/24/02		N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	0.00	N.O.	0.00	N.O.	N.O.
08/07/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
08/20/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/04/02		0.00	N.O.	0.00	N.O.	0.00	0.00	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	0.00	0.00	0.00	0.00
09/17/02		0.00	N.O.	0.00	N.O.	0.00	1.00	N.O.	N.O.	N.O.	N.O.	N.O.	N.O.	0.00	0.00	0.00	0.00
10/02/02		0.00	N.O.	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/17/02		0.00	N.O.	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/29/02		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/12/02		0.00	0.00	0.00	0.00	0.00	0.00	N.O.	0.00	0.00	N.O.	N.O.	0.00	0.00	0.00	N.O.	0.00
11/26/02		0.00	0.00	0.00	0.00	0.00	0.00	N.O.	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00
12/10/02		0.00	0.00	N.O.	0.00	N.O.	N.O.	0.00	0.00	0.00	N.O.	N.O.	0.00	0.00	0.00	N.O.	0.00
12/23/02		0.00	0.00	N.O.	0.00	0.00	0.00	N.O.	0.00	0.00	N.O.	N.O.	0.00	0.00	0.00	N.O.	0.00
01/07/03		0.00	0.00	N.O.	N.O.	N.O.	0.00	N.O.	0.00	0.00	N.O.	N.O.	0.00	0.00	0.00	N.O.	0.00
01/21/03		0.15	0.00	N.O.	N.O.	N.O.	0.00	4.90	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	N.O.	0.00
02/04/03		0.00	0.00	0.00	0.00	0.00	0.00	N.O.	0.00	0.00	N.O.	0.00	0.00	0.00	0.00	0.00	0.00
02/19/03		0.00	0.00	N.O.	0.00	N.O.	N.O.	0.00	0.00	0.00	N.O.	N.O.	0.00	0.00	0.00	N.O.	0.00
03/04/03		0.00	0.00				0.00		0.00	0.00			0.00	0.00	0.00		0.00
03/18/03		0.00	0.00				0.00		0.00	0.00			0.00	0.00	0.00		0.00
03/25/03		0.00	0.00				0.00		0.00	0.00				0.00	0.00		0.00
04/01/03		0.00	0.00				0.00		0.00	0.00			0.00	0.00	0.00		0.00
04/08/03		0.00	0.00														0.00
04/15/03		0.00	0.00				0.00		0.00	0.00		0.00	0.00	0.00	0.00		0.00
04/30/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/14/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/27/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/10/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/24/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/08/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/23/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/04/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
08/19/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09/03/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09/17/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/03/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/15/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/31/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/11/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/03/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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12/31/03		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01/13/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01/27/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02/12/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
02/25/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/08/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/22/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/07/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/21/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/06/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
05/20/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/03/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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07/16/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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11/05/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/19/04		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
07/15/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
07/29/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
08/12/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
08/26/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
09/09/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
09/26/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
10/07/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
10/21/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
11/04/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
11/18/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
12/02/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
12/14/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
12/29/05		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
01/10/06		0.00	0.00

POST RETROFIT MONITORING DATA

Samp. Pt.	Miles	1M	2M	3M	4M	5M	6M	7M	8M	9M	10M	11M	12M	13M	14M	17M	19M	20M	21M
02/17/12		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	NM	NM	NM
02/23/12		NM	NM	NM	92.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
03/02/12		0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	NM	NM
03/08/12		NM	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
03/16/12		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	NM	NM	NM
03/21/12		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
03/30/12		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	NM	NM	NM
04/06/12		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
04/13/12		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NM	NM	NM	NM	NM	NM
04/18/12		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

Emerson	1E	2E	3E	4E	5E	6E	7E	8E	9E	10E	11E	12E	13E	14E	15E	16E
02/17/12	0.00	0.00	81.00	0.00	NM	0.00	0.00	0.00	NM	NM	NM	NM	NM	NM	NM	NM
02/23/12	NM	NM	100.00	NM	NM	NM	0.00	0.00	NM	NM	NM	NM	NM	NM	NM	NM
03/02/12	0.00	0.00	17.00	12.00	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
03/08/12	NM	NM	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
03/16/12	0.00	0.00	13.00	11.00	NM	0.00	0.00	0.00	NM	NM	NM	NM	NM	NM	NM	NM
03/21/12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
03/30/12	0.00	0.00	14.00	0.00	NM	0.00	0.00	NM	NM	NM	NM	NM	NM	NM	NM	NM
04/06/12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
04/13/12	0.00	0.00	0.00	0.00	NM	0.00	0.00	0.00	NM	NM	NM	NM	NM	NM	NM	NM
04/18/12	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

D LFG O & M Forms

NYC Parks

City of New York Department of Parks and Recreation

Ferry Point Park Golf Course & Community Park
Bronx, New York

Final Construction Certification Report
NYSDEC Permit #2-6006-00014 / 00013 (SW)
October 19, 2015

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1 Introduction

1.1 Purpose

This Final Construction Certification Report for the Ferry Point Park Golf Course is submitted to the New York State Department of Environmental Conservation upon completion of the construction of Ferry Point Park East, a solid waste management facility, which includes the resultant information prepared in accordance with 6NYCRR Part 360 of the New York State Solid Waste Management Program.

This report is to certify that the construction of Ferry Point Park East has been completed in accordance with the 6NYCRR Part 360 and the Ferry Point Park Part 360 permits. Therefore, this report will present in great detail each specific approved component of the project – what was approved, what was actually constructed initially (with pictures), the changes that were made, and the final status and design as of the date of this report (with pictures).

1.2 Report Organization

This report has been generated to provide a written post-construction certification report to comply with the requirements of the Project's Part 360 Permits. The narrative and supporting information provided in this report have been organized such that any individual, especially those not familiar with the project, can gain a concise understanding of the history of improvements at the Site. As such, the report has been organized into the following sections:

- This report begins with this introductory chapter (Section 1) which briefly describes the purpose and scope of the project, provides details pertaining to the Site background including a Site description, key agencies involved, and Project and permitting history.

- Section 2 describes the Part 360 Permits and modifications, Permit reference documents, non-conformance issues, operational upsets, emergencies, and unusual circumstances, and reporting completed associated with the Project.

- Section 3 details the fill importation QA/QC program, specifically source site reviews for shaping layer and cover layer material, on-site fill importation inspection, trucking manifests, rejected trucks and materials, fill tracking, and total carcinogenic semi-volatile organic compound tracking.

- Section 4 provides details related to construction activities on-site including construction of the Community Park and the Golf Course, status of the Waterfront Park, environmental controls such as landfill gas wells, groundwater wells, liners, gas venting systems, vent trench, landfill cap, municipal solid waste handling, earthwork and fill placement, demarcation layer, miscellaneous golf course materials such as greens and tees mix, construction progress meetings, and deviations from the approved design plans and/or Permit requirements with as-built surveys.

- Section 5 details the environmental monitoring completed during the Project including Stormwater Pollution Prevention Plan (SWPPP), landfill gas, piezometer, settlement plate, and groundwater monitoring as well as information related to the deed restriction and post construction monitoring requirements at the Site.

- Section 6 provides a summary of the report.

- Report certification is provided in Section 7.

1.3 Background Information

1.3.1 Project Scope

Ferry Point Park in the Bronx (the "Site") is a former landfill covering 222 acres that is bounded by the Bronx-Whitestone Bridge and Hutchinson River Parkway to the west, Balcom, Miles, and Emerson Avenues to the east, Schley Avenue and St. Raymond's Cemetery to the north, and the East River to the south (See Figure 1-1 Ferry Point Park Project Area Map). The project was originally managed under Ferry Point Partners, LLC and was taken over solely by the City of New York Department of Parks and Recreation in October 2007.

The original project scope (the "Project") included the construction of three main elements including a golf course, a community park, and a waterfront park over the 222-acre Site (see Figure 2-1 Ferry Point Park Site Layout) as follows:

1. An 18-hole golf course with practice facility, driving range, clubhouse, maintenance facility, irrigation lake, stormwater retention ponds, and a parking lot (192.5 acres);
2. A passive recreation waterfront park with walkways and a comfort station (19.5 acres); and
3. A community park with baseball fields, basketball court, walkways, comfort station, and landscaped stormwater retention area (10 acres).

1.3.2 Project Site

The origins of the site for purposes of presenting a description of the site and surrounding area for this report extend back to the early 1900's. At that time an available 1900 map of the Bronx (Figure 2-2) showed the western edge of the site which now contains the expressway and Whitestone Bridge was a long narrow peninsula extending out to the same area that the northern landing of the Whitestone Bridge now extends to. Immediately east of this peninsula was a large open bay which is the area that the Ferry Point Golf Course is located within. Further to the northeast of this bay and well inland and beyond the current golf course was the Baxter Creek that drained into the bay. The eastern landfall of this embayment area is a larger peninsula that contains roadways and what appears to be residential development. The road patterns do not resemble the roadways that currently exist in that area and appear to have been changed.

A 1938 aerial photo (Figure 2-3) showing the construction of the Whitestone Bridge shows the Bay, mooring, residential area and land to the west to be virtually the same as shown in the 1900 map (Fig. 2-2). The significant change is in the widening of the western peninsula where the expressway was being constructed leading to the bridge ramps. The widening was not significant at this time but a rectangular area in the extreme northwest corner of what is now the site does appear to be filled and graded possible for bridge and expressway construction staging or support. Areas of filling can be readily identified by the contrasting lighter color typically indicative of sandy dredge sand placement. Other areas along the shoreline can be seen as containing a lighter colored band of fill material and this includes much of the new Ferry Point Park located west of the Whitestone Bridge. Much of the park area was filled, graded and completed by 1938. Bulkheads were constructed with linear components to present a smooth shoreline but one that does not appear to contain a beach where water diminishes in depth to 0. Photos of the eastern area of the bay where mooring and docks can be seen showing large vessels moored against the shore. This would indicate the water has significant depth all of the way to the center of the bay.

Aerial photographs from the 1950's (Figure 2-4) show a drastic change in the area currently referred to as the site. Large expansion of the filling that was evident in 1938-39 up in the northeast corner can be clearly seen. The filling extends well into the bay and it appears that a connective bridge was constructed from the eastern shore to the fill area. It is difficult to discern if this is a usable structure for crossing or if it had some other purpose. The filling operation appears from the photo to consist of the same light colored material that was placed in the Ferry point Park and from photos showing a large number of barges in the water filled with material of the same light color. There is no specific logs and documentation that presents the specific origin and consistency of the material but from the prior aerials showing filling and this large expansion, it appears to be of a similar origin which would be dredge sand. In the 1951 aerial, no specific municipal solid waste dumping and disposal can be seen but the records indicate the landfill operated from this approximate time period. So it can be assumed that municipal solid waste was dumped within the site area very soon after that. The filling shown in the aerial may very well have been the initial construction of the upper portion of the landfill with the tidal gate or bridge closing in the upper bay area. Additional aerials of the landfilling were not identified and more recent aerials document the completion of filling as well as the more recent golf course construction.
What can be discerned from this compilation of photos is that the landfill was located on area that may have been completely filled open water as well as some area that was previously reclaimed land with dredge material.

The Site operated as a landfill from before 1951 to the 1960's. The landfill reportedly accepted municipal solid waste during its operating period and was closed and covered in the mid-1960's, with additional closure operations conducted more recently in the 1980's. Prior Site use was determined from historic aerial photographs from 1951 thru 1991. The aerial photographs span practically the entire operational period of the prior landfill, from its initial operations to the present, and provides substantial information about the Site's development.

1.3.3 Key Agencies

The following were the key agencies associated with the project providing oversight, administration, design, construction, and monitoring services. The following is not intended to be an exhaustive list of involved entities related to the Project. A more extensive list of project participants is included in Appendix 18.

Primary Regulatory Agency:
New York State Department of Environmental Conservation Region 2 ("NYSDEC")

Project Permittee (Prior to October 2007):
Ferry Point Partners, LLC ("FPP")
City of New York Department of Parks and Recreation ("NYCDPR")

Project Permittee (Post October 2007):
City of New York Department of Parks and Recreation ("NYCDPR")

Primary Design, Engineering, Construction, and Monitoring Consultants:
Sanford Golf Design ("Sanford")
Nicklaus Design ("Nicklaus")
TRC Companies, Inc. ("TRC")
Langan Engineering & Environmental Services, Inc. ("Langan")
Ecology and Environment, Inc. ("E&E")
KS Engineers PC ("KSE")
Wesler Cohen Associates ("WCA")
The Pignato Group ("TPG")
Thomas Balsley Associates ("TBA")
Green Bases, Inc. ("GBI")

Independent Environmental Monitor ("IEM"):
ARCADIS/Geraghty & Miller (July 2000 – December 2000)
Gannett Fleming (December 2000 – October 24, 2010)
Woodard & Curran ("WC") (October 25, 2010 – Project Completion)

General Contractor:
Golf Course and Community Park: LAWS Construction Corp. ("LAWS")
Community Park Comfort Station: TJM Construction Corp. / Long Island Concrete, Inc.
Golf Course Maintenance Building, Rain Shelter, Comfort Station: Triton Structural Concrete, Inc.
Golf Course Cover Layer Material Importation: MFM Contracting Corp.

Golf Course Concessionaire/Operator:
The Trump Organization ("Trump")

1.3.4 Independent Environmental Monitor

The requirement for an Independent Environmental Monitor ("IEM") on this project was associated with an increased level of monitoring exceeding normal review and oversight practices of the NYSDEC in order to protect public health and the environment. The increased level of review and oversight for this Project was mainly associated with the extensive effort required for evaluation of fill material sources, source site testing and inspection, importation of the fill material, extensive earthwork, and environmental monitoring required at the 222-acre Site.

In accordance with Special Condition 24 of the 2014 Permit, NYCDPR was responsible to retain an IEM, accountable to the NYSDEC, to provide environmental oversight of all activities authorized under the Permit including but not limited to the quantification, importation and placement of fill, and the monitoring of the Site. Particular activities performed by the IEM for this Project included the following:

- Report deviations from or non-compliance with permitted activities to the NYSDEC;
- Evaluate and inspect fill sources;
- Witness source site investigation, sampling, and compare lab test results to Permit requirements;
- Visual and Photo-Ionization Detector (PID) inspection of imported fill materials to the Site;
- Monitor offloading of all trucks and reject unacceptable materials from being dumped on the Site and used for construction;
- Monitor environmental sampling on the Site (i.e. landfill gas, piezometer, groundwater, settlement, etc.);
- Monitor all aspects of fill operations on the Site, particularly the installation of minimum thickness of shaping layer and cover layer materials as well as demarcation layer installation; and
- Complete and submit to the NYSDEC Daily Observation Reports, bi-weekly Fill Management Reports, and Quarterly Reports related to Project activities.

The selection, continued retention, discharge, or replacement of the IEM was subject to the approval of the NYSDEC, at its sole discretion.

1.3.5 Project and Part 360 Permitting History

The following represents an overview of project and permitting history outlining key events associated with the Project. For more detailed and additional supporting information, reference the updated Permit Modification application package titled "Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East", dated May 31, 2012 and subsequently revised on August 31, 2012, June 20, 2013, and October 15, 2013 ("2013 Engineering Report") included in Appendix 20.

In May 1997, a Request for Proposals was released for the development of the Site. In May of 1998 Ferry Point Partners, LLC ("FPP") was selected as the developer and in the late May 2000, the City of New York Department of Parks and Recreation ("NYCDPR") initially entered into a license agreement with FPP to develop, construct, and operate the new recreation facility. The facility included a Jack Nicklaus signature golf course, a community park, a waterfront park, and related facilities (the "Project"). At that time, all required reviews for the Project were completed under the City Environmental Quality Review (CEQR),

State Environmental Quality Review Act (SEQRA), and New York City's Uniform Land Use Review Procedure (ULURP).

On July 17, 2000, the NYSDEC issued a Part 360 Solid Waste Management Permit (DEC No. 2-6006-00014-00011) (the "2000 Permit") jointly to NYCDPR and FPP (the "Permittee"), for a non-specific "facility" under Part 360-1.9(b) at the Site (see Appendix 1 for a copy of the permit). This permit allowed the Permittee to import and place fill necessary to construct the Project. This permit allowed for 1,000,000 cubic yards of fill material (in-place volume) to be imported and placed on the Site. The Permittee prepared an Engineering Report, dated April 11, 2000 and a Report on Fill Management Operations & Maintenance, dated May 16, 2000 as part of the permit application.

After the receipt of the original Part 360 Permit in July 2000, FPP entered into a contract with LAWS Construction Company, Inc. (the "Contractor") to construct the golf course, parks and other features of the Project, and to identify, secure and import the off-site fill material to be used to meet the design elevations of the grading plans referenced in the 2000 Permit.

Initially ARCADIS/Geraghty & Miller, Inc. was retained as the IEM. ARCADIS/Geraghty & Miller, Inc. was retained as the IEM for a period from July 2000 to December 2000 and was replaced as the IEM by Gannett Fleming Engineers and Architects, P.C. in December 2000.

FPP began importing fill to the Site in August 2000 and continued, with some interruptions, until January 2002 when fill deliveries were halted pending the modification of the 2000 Permit.

On January 10, 2001, the NYSDEC issued a letter addressing quality control protocol for potential sources of material from sites that previously experienced backfilling with soil, but not with waste materials, for the use in the shaping layer.

On May 21, 2001, the NYSDEC issued a Fill Procurement Protocol letter addressing acceptance of uncontaminated, unprocessed construction and demolition debris ("C&D") from registered C&D processing facilities.

On May 24, 2001, the NYSDEC issued a Fill Procurement Protocol letter addressing paragraph b in the May 21, 2001 letter and clarifying the definition of processed material.

From May to December 2001, based on the results of the Site perimeter methane gas monitoring, the NYSDEC required the construction of a landfill gas passive vent trench along most stretches of the Site perimeter from the water's edge near the foot of Emerson Avenue, along the entire length of the Site boundary with Balcom Avenue, and along Schley Avenue and continuing approximately 1,050 feet to the west past the intersection of Schley Avenue and Buttrick Avenue. In total, approximately 5,350 feet of passive vent trench was constructed (see Section B.3.a of Volume #1, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx,

NY, Engineering Report, dated June 30, 2005 (revised) for additional information). Additional discussion related to the vent trench construction is included in Sections 4.2.4 and 4.6 of this report.

In February 2002, the Permittee requested a modification to the 2000 Permit to increase the volume of in-place fill to approximately 1,550,000 cubic yards and changes in design features. The Permittee prepared a Supplement to the Engineering Report, dated February 11, 2002 and a Response to Request for the Additional Information, dated July 2, 2002 as part of the permit modification.

On October 18, 2002, the NYSDEC issued a Part 360 Solid Waste Management Permit (DEC No. 2-6006-0014-00013) (the "2002 Permit") to allow the Permittee to place 1,522,300 cubic yards of in-place fill on the Site (see Appendix 1 for a copy of the permit modification). Prior to October 18, 2002, 446,500 cubic yards of shaping material had been imported to the Site.

After the NYSDEC issued the 2002 Permit in October 2002, FPP resumed importing fill to the Site. The importation of fill to the Site was performed in accordance with the 2000 Permit, the 2002 Permit, the 2000 Fill Report and the Fill Procurement Protocol per the NYSDEC letters dated January 10, 2002, May 21, 2001 and May 24, 2001.

On December 10, 2002, NYCDPR submitted the Response Action Plan ("RAP") as required by Special Condition 31 of the 2002 Permit. A copy of the RAP is included in Appendix 19.

On March 10, 2003, NYCDPR submitted a proposal to the NYSDEC to repair and replace methane monitoring system components. A copy of the proposal is included in Appendix 19.

In response to NYCDPR's March 10, 2003 request to repair and replace methane monitoring system components, the NYSDEC approved replacement of 34, 25-foot spaced, semi-permanent monitoring wells with eighteen, 50-foot spaced, monitoring wells along Miles and Emerson Avenues, in accordance with Special Condition #37 of the 2002 Permit, on March 17, 2003. Installation of the replacement monitoring wells was completed in May 2003.

On November 18, 2003, the NYSDEC approved the Work Plan for the Final Consent Order, Case No. R2-20030724-187, dated November 18, 2003. This provided for the placement on Site of the solid waste material excavated during the construction of the gas venting trench, the size reduction of concrete on Site, and the processing and composting of existing wood on Site. The solid waste material was moved and placed in January 2004 and the processing and composting of the wood was completed in the spring of 2004. A copy of the approval is included in Appendix 19.

On January 12, 2004, the NYSDEC transmitted a copy of the executed Order on Consent No. R2-20030724-187 to NYCDPR. A copy of the fully executed consent order is included in Appendix 19.

On November 1, 2004, the NYSDEC approved the revised truck compaction factor of 42.4% based on the October 10, 2003 30% aerial topographic survey as was required per the 2002 Permit.

On December 7, 2004, the NYSDEC approved the revised truck compaction factor of 41% based on the July 17, 2004 60% aerial topographic survey as was required per the 2002 Permit.

In May 2005, the Permittee requested a modification to the permit to increase the volume of in-place fill to approximately 2,370,000 cubic yards among other items in order to reshape the Golf Course related to a revised design by the golf course architect. The Permittee prepared Volume #1, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY, Engineering Report, prepared by TRC Raymond Keyes Associated dated June 30, 2005 (revised) and Volume #2, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY, Engineering Report, prepared by TRC Raymond Keyes Associated dated June 30, 2005 (collectively known as the "2005 Engineering Report"). A copy of the 2005 Engineering Report is included in Appendix 20.

On August 2, 2005, NYCDPR responded to NYSDEC comments on the previously submitted June 30, 2005 Permit Modification and Engineering Report. A copy of the comment response is included in Appendix 19.

On November 18, 2005, the NYSDEC issued the modified Part 360 Solid Waste Management Permit (No. 2-6006-00014/00013) to place a total of 2,543,729 cubic yards of in-place fill on the Site (see Appendix 1 for a copy of the permit modification). This action was followed by a December 27, 2005, revision (No. 2-6006-00014/00013) that amended the total in-place fill volume to 2,370,000 cubic yards (the "2005 Permit").

On April 4, 2006, NYCDPR submitted a request for a determination related to cover layer material chemical criteria to the NYSDOH. On August 2, 2006, the NYSDOH provided written determination related to fill material chemical criteria required under Permit Special Condition 15(d) of the 2005 Permit. The submission and response are included in Appendix 19.

On October 25, 2006, the NYSDEC authorized the importation of shaping layer material from otherwise allowable sites with a total carcinogenic SVOC level in exceedance of the site limit, but 10 ppm or lower provided that a weighted average equal to or less than 3 ppm would be achieved by the end of each quarter of each year. A copy of the correspondence is included in Appendix C.1 of the 2013 Engineering Report (Appendix 20).

On October 26, 2007, the NYCDPR terminated the license agreement with Ferry Point Partners, LLC and took over site development activities. Ferry Point Partners, LLC was no longer involved with the Project or a Permittee.

On February 29, 2008, FPP submitted an application to the NYSDEC to transfer the Part 360 Permit solely to NYCDPR.

On July 25, 2008, a permit renewal application package to the 2005 Permit was submitted by NYCDPR. This submittal requested a modification of the 2005 Permit to allow the use of dredge and processed dredge material (PDM) as fill and the barge delivery of such fill material to the Site.

On August 12, 2008, the NYSDEC notified NYCDPR and FPP that the Part 360 Permit had been transferred to NYCDPR.

On October 24, 2008, the NYSDEC issued a Notice of Incomplete Application and comments to the July 25, 2008 submittal.

On December 2, 2008, the NYSDEC issued a letter to advise NYCDPR that the 2005 Part 360 Permit (with the corresponding November 30, 2008, expiration date) remained in full force and effect until NYSDEC approved the permit renewal application, as per Section 401(2) of the State Administrative Procedure Act (SAPA). See Appendix A of the 2013 Engineering Report (Appendix 20) for a copy of the SAPA letter.

On December 26, 2008, a response to NYSDEC's comments of October 24, 2008 was submitted by NYCDPR with a supplemental permit application package to the 2005 Permit.

On April 8, 2009, the NYSDEC issued comments to the December 26, 2008, permit application submittal. A copy of the comment letter is included in Appendix 19.

On April 9, 2009, the NYCDPR withdrew its request for a permit modification to allow the use of Processed Dredged Material ("PDM") as fill.

On April 30, 2009, the NYSDEC directed NYCDPR to not accept or place on the Site any cover layer materials with arsenic concentrations greater than 16 ppm or lead concentrations greater than 400 ppm. A copy of the correspondence is included in Appendix C.2 of the 2013 Engineering Report (Appendix 20).

On July 9, 2009, NYCDPR submitted proposed cover layer material chemical criteria to NYSDEC for review and approval. A copy of the correspondence is included in Appendix C.3 of the 2013 Engineering Report (Appendix 20).

On July 28, 2009, the NYSDEC notified NYCDPR that cover material is divided between two classifications: Active (suitable for use in Active or Passive Recreation areas), and Passive (suitable for use in Passive Recreation areas only). NYSDEC provided a table to NYCDPR listing modified heavy metal chemical limits for the cover layer at the Site. A copy of the correspondence is included in Appendix C.2 of the 2013 Engineering Report (Appendix 20).

On September 18, 2009, NYCDPR submitted rationale for a revised shaping layer correction factor based on the latest survey and fill imports volumes at that time. A December 11, 2012 letter evaluating the September 18, 2009 submittal was also submitted to the NYSDEC. The submissions are included in Appendix 19.

On September 25, 2009, the NYSDEC revised and clarified the chromium chemical limits for the cover layer previously presented in the July 28, 2009 correspondence. A copy of the correspondence is included in Appendix C.2 of the 2013 Engineering Report (Appendix 20).

On November 25, 2009, a response to NYSDEC's comments of April 8, 2009, was submitted by NYCDPR with a second supplemental permit application package to the 2005 Permit. This submittal withdrew the request to allow the use of dredge material and PDM as fill and the barge delivery of such fill material to the Site. This submittal also proposed a design modification for a Site-wide active landfill gas control system. The 2005 Permit included passive venting systems for the Site, with active systems proposed only in enclosed structures. The November 25, 2009 permit renewal application is included in Appendix 20.

On June 25, 2010, the NYSDEC issued a Notice of Incomplete Application and comments on the November 25, 2009, permit application submittal. A copy of the correspondence is included in Appendix J of the 2013 Engineering Report (Appendix 20).

On August 6, 2010, the NYSDEC issued additional comments on the November 25, 2009, permit application submittal. A copy of the correspondence is included in Appendix J of the 2013 Engineering Report (Appendix 20).

On September 29, 2010, a response to NYSDEC's comments of June 25 and August 6, 2010, was submitted by NYCDPR with a third supplemental permit application package for the 2005 Permit. This submittal withdrew the proposed design modification of a Site-wide active landfill gas control system and proposed a system consistent with the 2005 Permit. A copy of the correspondence is included in Appendix J of the 2013 Engineering Report (Appendix 20).

On October 7, 2010, a supplemental response to NYSDEC's comments of June 25 and August 6, 2010, was submitted by NYCDPR to accompany the September 29, 2010, permit renewal application submittal. A copy of the correspondence is included in Appendix J of the 2013 Engineering Report (Appendix 20).

On October 25, 2010, Woodard & Curran replaced Gannett Fleming, assuming the duties of the IEM for the Project.

On December 17, 2010, NYCDPR submitted supplemental information to the NYSDEC related to the Landfill Gas Report originally submitted to the NYSDEC on November 16, 2010 to address requests from the NYSDEC from a December 2, 2010 meeting. The November 2010 Landfill Gas Report and the December 17, 2010 supplemental information are included in Appendix E of the 2013 Engineering Report (Appendix 20).

On January 3, 2011, the NYSDEC issued a letter directing NYCDPR to collect and provide additional landfill gas data to better elucidate the subsurface conditions at a frequency described in the 2005 Permit. The letter requested that NYCDPR expand the landfill gas monitoring to include concentrations of hydrogen

sulfide, volatile organic compounds, and carbon monoxide, well temperature, and well pressure. A copy of the correspondence is included in Appendix J of the 2013 Engineering Report (Appendix 20).

On January 10, 2011, NYCDPR signed an Administrative Order on Consent (Consent Order), Case No. R2-20100521-172, related to fill material imported to the Site that violated the Permit. During 2010, fill material was brought on-site and placed in seven different stockpiles. The material was believed to be in conformance with Permit conditions. However, the material was found to be in violation of 2005 Permit Special Conditions 1, 9, and 16, during NYSDEC and IEM inspections. Under the terms of the consent order, the material was allowed to remain on-site under controlled conditions. The material was used to construct the base of the clubhouse and maintenance facility parking lots. Additional details are included in the Order on Consent, which is included in as Appendix I of the 2013 Engineering Report (Appendix 20).

On January 12, 2011, NYSDEC issued a response to NYCDPR's Request for Explanation of NYSDEC Request for Expansion of Ferry Point Park Landfill Gas Monitoring Parameters. Additional parameters included collecting data for hydrogen sulfide, volatile organic compounds and carbon monoxide, well temperature and well pressure. A copy of the correspondence is included in Appendix J of the 2013 Engineering Report (Appendix 20).

On February 16, 2011, NYCDPR submitted test pit analytical data to NYSDEC for review related to demarcation layer installation requirements. A copy of the correspondence is included in Appendix C.3 of the 2013 Engineering Report (Appendix 20).

On March 9, 2011, the NYSDEC issued a response to NYCDPR's February 16, 2011 correspondence requiring demarcation layer to be installed on the Site only in areas where there was less than five feet of shaping and cover layer materials. A copy of the correspondence is included in Appendix C.3 of the 2013 Engineering Report (Appendix 20).

On May 13, 2011, NYCDPR issued a memorandum to the NYSDEC presenting the results of a site-wide water balance based on a cover layer material permeability of 14 inches per hour, which indicated that there would be a reduction in the infiltration rate over the entire Site. A copy of the correspondence, which includes additional details on the topic, is included in Appendix D.1 of the 2013 Engineering Report (Appendix 20).

On May 26, 2011, NYCDPR requested confirmation from the NYSDEC that the use of USEPA Analytical Method 625/8270 was an acceptable alternative method for the analysis of dioxin and furan constituents. The NYSDEC provided verbal confirmation that this was an acceptable method to be used. A copy of the correspondence is included in Appendix C.5 of the 2013 Engineering Report (Appendix 20).

NYCDPR issued a June 2011 report to the NYSDEC regarding sampling and analysis of landfill gas vents at the Community Park. A copy of the report, which includes further details of this sampling and analysis, is included in Appendix E.3 of the 2013 Engineering Report (Appendix 20). On July 1, 2011, the NYSDEC concluded that there were no ambient air impacts due to the landfill gas emissions from the twelve vents

located in the Community Park and that no further monitoring was necessary beyond routine maintenance.

On August 10, 2011, NYCDPR issued a subsequent water balance memorandum indicating that a higher cover layer material permeability of 30 inches per hour would also result in a lower volume of water infiltrating through the surface of the Site after completion of construction. Section 4.2.1 includes the description relating to the site permeability modifications. Additional details related to the water balance are included in Appendix D.2 of the 2013 Engineering Report (Appendix 20).

On September 19, 2011, NYCDPR prepared technical memorandum Field Sampling Procedures for Ferry Point Site related to groundwater characterization. The memorandum is included in Appendix G of the 2013 Engineering Report (Appendix 20).

On October 18, 2011, NYCDPR submitted a technical drainage review memorandum to the NYSDEC for review regarding the final cover material and site wide water balance. A copy of the correspondence is included in Appendix D.5 of the 2013 Engineering Report (Appendix 20).

On October 21, 2011, the NYSDEC provided a response to NYCDPR's October 18, 2001 technical drainage review memorandum including a conditional approval allowing cover layer material to have a percolation rate of up to 30 inches per hour. The condition was that NYCDPR was required to submit for approval an amendment to the Stormwater Pollution Prevention Plan (SWPPP) including plans and computations that reflect the partial lining of stormwater basins. A copy of the correspondence is included in Appendix D.5 of the 2013 Engineering Report (Appendix 20).

On November 16, 2011, NYCDPR provided NYSDEC with a technical memorandum addressing the conditions included in the October 21, 2011 conditional approval for the cover layer material percolation rate. A copy of the correspondence is included in Appendix D.6 of the 2013 Engineering Report (Appendix 20).

On December 2, 2011, the NYSDEC provided an approval for NYCDPR's SWPPP amendment via email. A copy of the correspondence is included in Appendix D.6 of the 2013 Engineering Report (Appendix 20).

On January 26, 2012, the NYSDEC clarified that the average percolation rate from all samples collected within one cover layer material stockpile could be used as the representative percolation rate of that stockpile due to the mixing that occurred during loading, unloading, transport, stockpiling, and spreading of the material. A copy of the correspondence is included in Appendix 19.

On March 28, 2012, NYCDPR submitted to the NYSDEC initial groundwater monitoring data from the installation of 11 new monitoring wells installed and sampled in February 2012. NYCDPR requested additional direction from the NYSDEC concerning procedures for future sampling events.

On May 1, 2012, the NYSDEC acknowledged that settlement plate monitoring at several points has been discontinued due to interference with ongoing construction, and informed NYCDPR that the short-term monitoring locations did not need to be replaced as long as construction at the Site progressed and the long-term plates were installed as construction was completed. A copy of the correspondence is included in Appendix H of the 2013 Engineering Report (Appendix 20).

On May 8, 2012, a conference call was held between NYCDPR and the NYSDEC to discuss the initial groundwater monitoring data submitted on March 28, 2012 and to discuss guidance for future groundwater monitoring. The NYSDEC provided NYCDPR with requirements for future groundwater monitoring in their May 8, 2012 Ferry Point Park Groundwater Characterization/Monitoring Objective. Meeting minutes are included in Appendix G of the 2013 Engineering Report (Appendix 20).

On May 24, 2012, the NYSDEC verified via email that there were no outstanding enforcement actions for the Site. A copy of the correspondence is included in Appendix B of the 2013 Engineering Report (Appendix 20).

In May 2012, the Permittee requested a modification to the Permit presenting studies, modeling, investigations, and design work that were performed to resolve outstanding comments that were received by the Permittee after the April 8, 2009 Notice of Incomplete Application and the November 25, 2009 permit application to the NYSDEC. NYCDPR submitted the initial version of the Supplemental Engineering Report dated May 31, 2012.

On June 8, 2012, the NYSDEC confirmed that the sand material used for the tees, greens, and sand traps (bunkers) should not be counted towards the Permit stated allowable cover soil maximum of 250,000 cubic yards. Based on information provided to the IEM by NYCDPR, NYCDPR's consultants have estimated the required sand material volumes as follows: Tees and Greens (24,705 cubic yards), Driving Range Tee (3,025 cubic yards), and bunkers (6,076 cubic yards). Since these values were estimated and calculated by NYCDPR's consultants, it shall be noted that actual installed volumes may fluctuate from the volumes identified above. Information is from an email from Joe Voss to Faisal Choudhury on June 13, 2012. A copy of the correspondence is included in Appendix 19.

On January 23, 2013, NYCDPR submitted the rationale for increasing the amount of cover layer material that could be imported to the Site under the Permit. A copy of the correspondence is included in Appendix 19.

On February 1, 2013, The NYSDEC issued an amendment to the 2005 Permit (last modified October 17, 2012) authorizing the Permittee to import a total of 2,514,000 cubic yards of in-place fill totaling approximately 2,120,000 cubic yards of shaping layer material and approximately 394,000 cubic yards of cover layer material. A copy of the amendment is included in Appendix 1.

On April 26, 2013, the NYSDEC notified NYCDPR that the compaction factor for cover layer material was revised to 18%, approving NYCDPR's revised April 8, 2013 submittal. A copy of the approval letter and submittal are included in Appendix 19.

On October 15, 2013, NYCDPR submitted the final version of the "2013 Engineering Report", entitled Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East Bronx, NY dated May 31, 2012 (Revised August 31, 2012, October 15, 2013) to address concerns raised by the NYSDEC since the Notice of Incomplete Application of November 25, 2009 to modify the 2005 Permit. The 2013 Engineering Report is attached in Appendix 20.

On April, 17, 2014, the NYSDEC confirmed via email that a minor exceedance of the cover layer in-place volume as included in the Permit is acceptable considering no additional shaping material will need to be imported and that the exceedance could be addressed via as-built drawings and in the final construction certification report. A copy of the email is included in Appendix 19.

On May 21, 2014, the NYSDEC issued the modified Part 360 Solid Waste Management Permit (No. 2-6006-00014/00013 (SW)) and Tidal Wetlands Permit (No. 2-6006-00014/00016 (TW)) (the "2014 Permit"). See Appendix 1 for a copy of the permit.

On October 29, 2014, the NYSDEC issued an amendment to Special Condition 24 of the 2014 Permit stating that during fill delivery and earthwork, NYCDPR should submit quarterly reports to the NYSDEC summarizing all Site activities set forth in the Permit. Each report should provide details of all rejected fill material, quantify the amount of material imported to the Site using truck volumes, and the results of all on-site monitoring for that period. All fill tracking, earthwork activities, landfill gas monitoring, and associated reporting requirements typically contained within each Fill Management Report would be addressed by Quarterly Reports moving forward and Fill Management Reports would no longer be issued. FMRs were no longer being issued due to a significant reduction in fill importation and earthwork activities at the Site. A copy of the letter is included in Appendix 1.

For a detailed history of site operations and activities prior to June 30, 2005, see Volume #1, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY, Engineering Report, prepared by TRC Raymond Keyes Associated dated June 30, 2005 (revised) which is attached in Appendix 20.

1.3.6 Construction Drawings

The project included a substantial number of different construction drawings associated with the Project. Construction drawings are included in Appendix 4.

2 Part 360 Permit

2.1 Part 360 Permits and Modifications

The following is a list of the permits and modifications issued for this Project:

On July 17, 2000, the NYSDEC issued a Part 360 Solid Waste Management Permit (DEC No. 2-6006-00014-00011) (the "2000 Permit").

On October 18, 2002, the NYSDEC issued a Part 360 Solid Waste Management Permit (DEC No. 2-6006-0014-00013) (the "2002 Permit").

On November 18, 2005, the NYSDEC issued a modified Part 360 Solid Waste Management Permit (No. 2-6006-00014/00013), followed by a December 27, 2005 revision (the "2005 Permit").

On May 21, 2014, the NYSDEC issued a modified Part 360 Solid Waste Management Permit (No. 2-6006-00014/00013 (SW)) and a Tidal Wetlands Permit (No. 2-6006-00014/00016 (TW)) (the "2014 Permit").

Note that a separate SPDES General Permit for Stormwater Discharges from Construction Activity (GP-08-001) was obtained for the Project and the Acknowledgement of Notice of Intent is dated May 12, 2009 (Permit Identification No. NYR10R112).

Copies of the aforementioned permits and modifications are included in Appendix 1.

2.2 Reference Documents

Refer to Appendix 2 for a list of Permit reference documents. These documents support the original Permit and/or provide basis for subsequent permits renewals and modifications.

2.3 Non-Conformance Issues

In accordance with Special Condition 24, the IEM reported on Permit related non-conformance issues during the duration of construction at the Site. A complete list of all non-conformance issues observed and corrective actions taken during the Project is included in Appendix 3.

2.4 Operational Upsets, Emergencies, and Unusual Circumstances

2.4.1 Security breaches, Unauthorized Entries, Injuries, Fires, Theft, Vandalism, etc.

The following information was gathered from TRC, NYCDPR's design and construction consultant:

In July/August of 2013, a CBS film crew received authorization from the Agency to scout and film areas within the Ferry Point Golf Course proper. There were no known issues with those activities.

TRC did not have specific detailed reports for thefts or vandalism that occurred on the Site. To the best of their knowledge, there were two incidents of vandalism to contractor equipment (broken glass

windows and spray painted vehicles), and a few incidents when the perimeter fence was damaged (bent/scratched vertical bars). Landfill gas vent caps were damaged, but there was no evidence of vandalism; the vent caps may have been damaged by lawn mowers or other equipment running over them.

There were no known major fires or injuries during the construction time period.

The only unusual event was the discovery of the body of a construction worker who had fallen from the Throggs Neck Bridge and washed up at the Waterfront Park. For several days there was police presence and other related activity. However, that event was not related to the work at the golf course nor did it delay or adversely affect the progress of the project.

As reported by the IEM:

On the evening of August 18, 2011, the Site was broken into by unknown persons. LAWS equipment storage containers were forced open and various tools and copper piping was stolen. The trespassers appeared to have entered the Site at the back entrance to the golf course along Balcom Avenue. The fence was observed cut open in that area.

Upon arrival at the Site on August 26, 2011, IEM staff observed that the IEM trailer had been broken into by unidentified persons. On-site security and LAWS representatives were notified as well as the local police (by LAWS). Two digital cameras were stolen from the IEM trailer.

On June 25, 2012, the IEM witnessed a trailer of imported fill material slide off its frame during dumping activities. No injuries were reported.

On October 31 and November 1, 2012, IEM staff performed on-site inspections to assess damage caused by Hurricane Sandy. IEM staff observed many areas around the Site where restoration work needs to be performed on the vent trench, silt fence repair, site security fence repair, and garbage/debris removal. The southern site boundary was observed to have significant damage and washout. The entire south end of the Site was open without protection and it was filled with debris from the storm.

On October 25, 2012, the IEM witnessed both a truck and a trailer roll over onto their side during dumping activities. No injuries were reported.

Various Permit non-conformance issues were observed related to unsatisfactory security at the Site beginning with non-conformance issue 12 on October 1, 2003 where security fence and other controls were not properly maintained on-site allowing for unauthorized entry to the Site. Site security, control, and unauthorized access were the subject of non-conformance issues 15, 72, 90, 93, 97, 98, 122, and 127. Ultimately, all of these non-conformance issues were resolved and closed out during construction on an ongoing/as-needed basis.

There was a presence of coyotes at the Site as tracked and studied as part of the Gotham Coyote Project. The work was conducted under NYCDPR permits and information was released to NYCDPR for informational purposes. Coyotes were initially monitored by game camera in Ferry Point Park beginning in January 2012 through 2013. Coyote monitoring did not occur at the Site in 2014.

2.5 Reporting

The IEM was responsible for reporting to the NYSDEC related to Permit activities and compliance for the Project in accordance with Special Condition 24 of the 2014 Permit. The IEM prepared and submitted to the NYSDEC Daily Observation Reports ("DOR"), bi-weekly Fill Management Reports ("FMR"), and Quarterly Reports ("QR"). These reports are attached as appendices to this report and available at the NYCDPR Bronx Borough Headquarters (Ranaqua) document repository and are part of the public record. The address of the repository is 1 Bronx River Parkway, Bronx, NY 10462, telephone: (718) 430-1800.

2.5.1 Daily Observation Reports (DOR)

The IEM reported to the NYSDEC on a daily basis on the following information: weather conditions, municipal solid waste material removal from the site, fill materials imported to the site, detailed notes of construction activities, and non-conformance issues related to the Permit conditions.

DORs are attached in Appendix 5 beginning on October 25, 2010. Daily site activity observations for the time period prior to October 25, 2010 are summarized in the IEM's Fill Management Reports.

2.5.2 Fill Management Reports (FMR)

The IEM prepared Fill Management Reports (FMRs) that were submitted to the NYSDEC on a bi-weekly basis. Generally, the FMRs contained the following information and data: a project summary including an overview of site activities, Permit non-conformance issues, fill source site review activities and associated data, site testing activities, filling and shaping activities, and environmental monitoring. FMRs contained figures identifying imported material dump locations and any active filling, grading, and shaping areas associated with the landfill cap.

FMRs were discontinued on October 31, 2014 with FMR 346. FMRs were discontinued because the importation of shaping layer and cover layer materials and earthwork activities were significantly reduced in scope and scale on the Site. In a Permit amendment issued to NYCDPR on October 29, 2014, the NYSDEC stated that all fill tracking, earthwork activities, landfill gas monitoring, and associated reporting requirements would be addressed by Quarterly Reports thereafter.

FMRs 1 through 346 are attached in Appendix 6.

2.5.3 Quarterly Reports

The IEM prepared Quarterly Reports (QRs) that were submitted to the NYSDEC on a quarterly basis. Generally, the QRs contained summarized and aggregated information included in FMRs over each quarterly reporting period.

QRs beginning with the 4th Quarter of 2002 through the 1st Quarter of 2015 (with the exception of the 1st Quarter of 2011) are attached in Appendix 7. Observations for site activities for the 1st Quarter of 2011 are included in FMRs 247 through 253.

2.6 Authorized Fill Volumes

On July 17, 2000, the NYSDEC issued 2000 Permit jointly to NYCDPR and FPP to allow for a total of 1,000,000 cubic yards of fill to be imported and placed on the Site including approximately 750,000 cubic yards of in-place shaping layer material and 250,000 cubic yards of in-place cover layer material.

On October 18, 2002, the NYSDEC issued the 2002 Permit to allow a total of 1,522,300 cubic yards of fill (in-place) to be imported and placed on the Site. The fill material was to consist of approximately 1,272,300 cubic yards of select exempt construction and demolition debris for the shaping layer, and approximately 250,000 cubic yards of uncontaminated soil for the cover layer. The 2002 Permit also stated that, "approximately 415,000 cubic yards of fill was deposited on the Site prior to the effective date of the Permit and the projection for in-place fill material to complete the project was 1,107,300 cubic yards, consisting of approximately 857,300 cubic yards (in-place volume) of select exempt construction debris for the shaping layer and approximately 250,000 cubic yards (in-place volume) of uncontaminated soil for the cover layer.

In 2003, the golf course architect determined that the tournament quality and signature status of the course could be significantly improved by making the facility a "links" style golf course. The changes to the Project as compared to the work authorized under the 2002 Permit included:

- Increasing the support mounding between golf holes and grading the course in a links style.
- Re-routing of holes 11, 12 and 13 to reverse their direction in order to improve player circulation and playing time.
- Moving Hole 9 to the west of the golf driving range in order to improve the safety zone of the driving range and remove the need for high netting.
- Realigning the centerlines of holes: 10, 16, 17, and 18 to improve the strategic layout and visual experience of the golf course.
- Lowering the elevations of tees 4 and 6. This eliminated the retaining wall proposed at the northeast corner of the Site.
- Adding a golf training area at the north end of the driving range. This required shifting the centerline of Hole 8 slightly north and increasing the support mounding around this area to buffer the adjacent holes.
- Increasing the mounding adjacent to the TBTA toll plaza in order to block noise and adjacent traffic from view.
- Shifting the Site roadway along the east side of the bridge to accommodate a TBTA easement that extends 25 feet east of the bridge. This required changes to the parking lot at the clubhouse and the location of detention/water quality basin and Waterfront Park.
- Eliminating the Boathouse Grill restaurant in the Waterfront Park. A restaurant would be located within the banquet facility. Parking spaces for the banquet facility were increased to

accommodate the restaurant. A restaurant may be constructed within the Waterfront Park in a future phase, based on economic demands.

- Modifying the parking lot for the Waterfront Park. The 120 parking spaces for the Waterfront Park will be located near the Whitestone Bridge approach structure.

These proposed changes to the Project increased the total needed in-place fill volume for the project to 2,370,000 cubic yards to shape the golf course in a links style.

The quantification of the imported fill material was continuously tracked by both truck volume and periodic topographic surveys of in-place volumes. Initially it was assumed that truck volume would be reduced by 25% when compacted into place, but a new correction factor was to be calculated. On November 1, 2004, the NYSDEC approved a revised truck correction factor of 42.4%, which was based upon an October 10, 2003 30% aerial topographic survey, and on December 7, 2004, the NYSDEC approved a revised truck correction factor of 41%, which was based upon a July 17, 2004 60% aerial topographic survey. These recalculations were performed by dividing the actual in-place volume by the total cubic yards of truck volume delivered to the Site as of the date of the survey, as required by the 2002 Permit.

TRC prepared the 2005 Engineering Report, which comprised of Volume #1, Volume #2, and a 26 sheet drawing set entitled, "Ferry Point Park Public Recreational Facility Bulk Earthwork, Bronx, New York, Supplement No. 2". The 2005 Engineering Report is included in Appendix 20 and represented the following scope of work:

- An 18 hole golf course with practice area;
- Maintenance Area in the northwest corner of the Site;
- Clubhouse parking lot in the southwest portion of the Site;
- Banquet Facility in the southwest portion of the Site (along Emerson Avenue);
- Community Park;
- Waterfront Park with parking lot; and
- Drawing G-3 and G-4 of "Ferry Point Park Public Recreational Facility Bulk Earthwork, Bronx, New York, Supplement No. 2", showed the deviations in grading between the plans approved on October 18, 2002 with the proposed plan.

On November 18, 2005, the NYSDEC issued the 2005 Permit authorizing the importation of a total of 2,370,000 cubic yards of in-place fill material to the Site. The fill material was to consist of approximately 2,120,000 cubic yards of select exempt construction and demolition debris for the shaping layer, and approximately 250,000 cubic yards of uncontaminated soil for the cover layer. The correction factor was 41% at that time and could be further modified.

On January 22, 2009, in accordance with Special Condition 10 of the 2005 Permit, TRC submitted a revised truck reduction factor of 40.3%. On September 18, 2009 TRC submitted a truck reduction factor of 43.3% based on a May 10 2009 aerial topographic survey. On February 11, 2010, the NYSDEC approved a truck reduction factor of 41.7% as submitted by the IEM on December 11, 2009 (included in Appendix 19).

The Golf Course layout that NYCDPR moved forward with was modified from what was shown in the 2005 Engineering Report as revised by the 2013 Engineering Report. One major change was the complete removal of the Banquet Facility in the southeast part of the Site. There were also changes in the placement, alignment, and grading of some holes on the Golf Course.

On February 1, 2013, the NYSDEC granted a permit modification to increase the limit of cover material from 250,000 to 394,000 cubic yards with the stipulation that NYCDPR revisit the correction factor for cover layer material. It was determined that the correction factor for the granular cover material (sand) was 18%. This revised the truck volume to 480,488 cubic yards. The correction factor for cover layer material was approved per an April 26, 2013 letter from NYSDEC to NYCDPR as included in Appendix 19.

On May 21, 2014, the NYSDEC issued the 2014 Permit to NYCDPR to allow the import of a total of 2,514,000 cubic yards of in-place fill material including 2,120,000 cubic yards of in-place shaping layer material and 394,000 cubic yards of in-place cover layer material.

3 Fill Importation QA/QC Program

Fill material importation commenced on August 2, 2000 and the last day for fill import was May 5, 2015. The fill importation QA/QC program implemented for the Project based on the Permit and associated reference documents was adhered to. The fill importation consisted of two main components including source site reviews and on-site inspections. A source site review was conducted by the IEM prior to any fill material being imported to the Site and additional visual and photo-ionization detector (PID) inspections were completed by the IEM upon the material entering the Site at the IEM inspection platform and again once the material was dumped at the work or stockpile location on the Site.

3.1 Source Site Reviews

Prior to any shaping layer or cover layer material being imported to the Site, each potential source was thoroughly evaluated by the IEM. An environmental review was performed for all proposed source sites in accordance with Special Condition 24 of the 2014 Permit. The source site review process criteria was specified in the Report on Fill Management, Operations and Maintenance, prepared by TRC on May 16, 2000, and revised June 30, 2005 (Volume #2 of the 2005 Engineering Report). The source site review process was modified over time as compared to the original process outlined in the various engineering reports and permit modification requests. The process generally consisted of the following main components:

1. NYCDPR would notify the IEM of a new potential source site. NYCDPR would provide the IEM with the site name and location as well as any available historical site information and soil environmental analytical results that existed for the potential source site.

2. Once NYCDPR confirmed that they wanted to move forward with pursuing the potential source site, NYCDPR authorized the IEM to retrieve any available site information from Environmental Data Resources, Inc. (EDR) which included environmental and historical land use records for the source site property under evaluation including Sanborn maps, city directories, topographic maps, and aerial photographs. NYCDPR then completed an initial review of the existing site information,

generated a sampling plan, and provided the results of the initial review and sampling plan to the IEM. NYCDPR then authorized the IEM to conduct a desktop review of the existing site information (i.e. EDR), any available soil environmental analytical results, and NYCDPR's sampling plan. The IEM provided NYCDPR with comments related to their review and their sampling plan in consultation with the NYSDEC. Once a final sampling plan was agreed upon, the source site investigation was initiated and executed per the NYCDPR sampling plan with IEM oversight. For source sites with in situ material, test pits were typically completed with additional soil samples inspected, collected, and analyzed in accordance with the Permit requirements. Once all the sampling was completed, the IEM reviewed sample results and the IEM generated a memorandum summarizing the review process and provided recommendations and requirements necessary for NYCDPR to address in order to continue pursuing the potential source site. The recommendations typically included conditions associated with overseeing the excavation, loading, and import of the source site material to the Site in accordance with the Permit. The IEM submitted the memo of recommendations to the NYSDEC for review and comment prior to issuing the final memorandum to NYCDPR. The NYSDEC would provide final comments and approval of the source site with any additional required conditions.

3. If NYCDPR determined that the potential source site was worth pursuing considering site-specific conditions, schedules, etc., they coordinated with the source site operator and IEM on importation schedule and requirements. The IEM provided oversight to confirm that the loading, hauling, and overall import of the approved material was completed in accordance with the memorandum of recommendations, NYSDEC conditions, and the Permit.

4. The IEM provided oversight during export from the approved source sites on an as needed basis and provided oversight at each source site during additional sampling activities if the source site was exporting more than the minimum sampling frequency outlined in the Permit (i.e. 10,000 cubic yards for shaping layer material and 2,000 cubic yards for cover layer material).

If at any time during the review process there were reasons for concern identified by the IEM resulting in the potential source site being classified as a "complex" source site, the NYSDEC became the primary reviewer and made final recommendations related to additional site investigation requirements or approval/rejection of the potential source site with support from the IEM. A complex source site was defined by the presence of an abundance of or particular Recognized Environmental Concerns ("RECs") and the NYSDEC made any decisions related to approval and/or associated conditions for further evaluation or import of the fill material.

A flow chart detailing the source site review process is included as Appendix 21.

Details of source site review and site testing activities are included in the report text and tables of each bi-weekly Fill Management Report issued by the IEM. Source site review supporting information and testing data is included in Appendix 8.

The following is a listing of source site reviews completed by the IEM since October 25, 2010. Since October 25, 2010, Woodard & Curran's first day as the IEM, 42 potential source sites were formally identified as potential fill source options by NYCDPR. Of the 42 potential source sites identified since October 25, 2010, 39 were advanced to at least a preliminary review stage. Potential source sites did not advance to a full source site review for various reasons such as changes in schedule, insufficient material, financial infeasibility, red flags identified with past uses of the source site, etc. Details of each source site review and site testing activities completed by the IEM, prior to any importation to the Site, are included in Sections 3.1.1 and 3.1.2 below.

A total of 15 of the potential source sites evaluated after October 25, 2010 and through project completion resulted in material being imported to the Site during that same time period. It is noted that all of the source site reviews included in Sections 3.1.1 and 3.1.2, are associated with the Golf Course and all cover layer material exposed at the surface within the golf course was imported from the cover layer material source sites included in Section 3.1.2 below. Refer to FMRs 1 through 241 for details related to source site reviews and site testing prior to October 25, 2010, which are included in Appendix 6.

For a list of source sites that imported material to the Site between November 18, 2005 and October 25, 2010, see the table included in Appendix 12. Refer to FMRs in Appendix 6 for source sites and estimated fill material imported to the Site prior to November 18, 2005.

The following were potential source sites that were identified by NYCDPR since October 25, 2010 where a review was not initiated:

1. 10 Byron Place (Larchmont, NY)
2. College Point
3. PS-331 (Tremont Avenue, Bronx, NY)

The following were potential shaping layer source sites that were identified by NYCDPR since October 25, 2010 with some level of source site review being completed. Source sites that resulted in a complete review and the importation of shaping layer material to the Site after October 25, 2010 are identified with bold text.

1. **PS-310 (942 62nd Street, Brooklyn, NY)**
2. PSAC
3. Barclays Arena (620 Atlantic Avenue, Brooklyn, NY)
4. JFK Jet Blue/Delta Runway (Jamaica, NY)
5. Columbia University
6. Long Island Jewish Center (270-05 76th Avenue, New Hyde Park, NY)
7. Highbridge Terrace (220 West 167th Street/Sedgewick Avenue, Bronx, NY)
8. Astoria (27-07 23rd Avenue, Queens, NY)
9. **Eastside Access (Queens Street and Jackson Avenue, Queens, NY)**

10. **Kew Gardens (Van Wyck Expressway between Grand Central Avenue and 86th Avenue, Queens, NY)**
11. PS-285 (1065 Martin Luther King Boulevard, Bronx, NY)
12. Flushing Hotel (133-63 Roosevelt Avenue/39-20 Prince Street, Queens, NY)
13. **2nd Avenue (2nd Avenue and 94th Street, New York, NY)**
14. 2nd Avenue (2nd Avenue and 72nd Street, New York, NY)
15. Alexander Hamilton Bridge (Bronx, NY)
16. **Throgg's Neck/Target/USPS (815 Hutchinson River Parkway, Bronx, NY)**
17. **PS-287 (110-10 Northern Boulevard, Queens, NY)**
18. City Point Brooklyn (1 Dekalb Avenue, Brooklyn, NY)
19. 400 Park Avenue South (New York, NY)
20. **Union Street (43-31 Union Street, Flushing, NY)**
21. **Mount Vernon Recycling Corp. (113 Edison Avenue, Mount Vernon, NY)**
22. 228th Street (Rosedale, NY)
23. Evergreen Recycling/Tully Environmental (Willets Point Boulevard, Corona, NY)
24. Waterpointe-Whitestone
25. Don Carlo Environmental/Brooklyn (1247 38th Street, Brooklyn, NY)
26. Castle Hill Recycling (1000 Zerega Avenue, Bronx, NY)
27. Springfield Gardens
28. Calvert Vaux (Brooklyn, NY)
29. 160 Myrtle Avenue (Brooklyn, NY)
30. 215 E. 68th Street (New York, NY)
31. **DEP Valhalla (10 Walker Road, Valhalla, NY)**
32. **Tilcon (Bronx) (980 East 149th Street, Bronx, NY)**
33. **NY Recycling (475 Exterior Street, Bronx, NY)**
34. Little Bay (Queens, NY)

The following were potential cover layer source sites that were identified by NYCDPR after October 25, 2010 with some level of source site review being completed. Source sites that resulted in complete reviews and the importation of cover layer material to the Site after October 25, 2010 are identified with bold text.

1. **Bloomingburg (C.M. & Sons Trucking Site, 680 Bloomingburg Road, Bloomingburg, NY)**
2. **Ranco Sand (115 South Street, Manorville, NY)**
3. **East Coast Mines (Lewis Road near Route 104, East Quogue, NY)**
4. Amboy Aggregates (415 Main Street, South Amboy, NJ)
5. **Long Island Compost/Great Gardens (445 Horseblock Road, Yaphank, NY)**

3.1.1 Shaping Layer Material

Materials accepted for use as shaping layer on the Site were sampled prior to acceptance and after the import of each additional 10,000 cubic yards as required by Special Condition 14 of the 2014 Permit. For recycling facilities, sampling was conducted after each additional 5,000 cubic yards. As per the November

18, 2005, Permit Modification, each soil sample was analyzed for TCLP VOCs and metals as well as total VOCs, SVOCs, priority pollutant metals, pesticides, PCBs, sulfur, and asbestos.

Fill material imported to the Site and used for the shaping layer was analyzed for the following parameters, per Special Condition 14 of the 2014 Permit. A description of which can be found below as included in Section 4.2.1.1 of the 2013 Engineering Report.

Based on source site reviews and site testing activities, the shaping layer material imported to the Site met the following chemical limits:

Total carcinogenic SVOC levels less than 10 ppm from individual fill material sources, provided that a weighted average of equal or less than 3 ppm for the entire Project. The following are the list of carcinogenic SVOCs that are subject to this 10 ppm limit: Benzo(a)pyrene, Dibenzo(a,h) anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Indeno(1,2,3-cd)pyrene, Benzo(k)fluoranthene, and Chrysene.

Total SVOCs less than 500 ppm.

Metals:

- Arsenic less than 28 ppm;
- Barium less than 2,000 ppm;
- Cadmium less than 20 ppm;
- Chromium less than 1,000 ppm;
- Copper less than 1,000 ppm;
- Lead less than 400 ppm;
- Mercury less than 0.57 ppm;
- Selenium less than 11 ppm;
- Silver less than 100 ppm

Asbestos for all layers 0.5% or less
Total sulfur for all layers 0.5% or less
Total PCBs less than 10 ppm
Total Pesticides less than 10 ppm
VOCs (all individual analytes less than TAGM 4046)

In a letter dated October 25, 2006 (included in Appendix C.1 of the 2013 Engineering Report), the NYSDEC provided a clarification adding that a carcinogenic SVOC limit of 10 ppm or lower is allowable from individual fill material sources, provided that a weighted average of equal or less than 3 ppm is achieved by the end of the Permit.

NYCDPR followed the NYSDEC's directives since receipt of each one associated with the importation of shaping layer material to the Site.

Details of the source site reviews and site testing for each potential shaping layer material source site are as follows:

3.1.1.1 PS-310 (942 62nd Street, Brooklyn, NY)

Source site testing analytical results for the PS-310 site were provided to the IEM by NYCDPR in a submittal dated October 6, 2010, and reviewed by the IEM for potential shaping layer material, based on the site visit performed by Gannett Fleming (the previous IEM) on September 21, 2010, and as recommended in their memo dated September 28, 2010. Samples were collected and tested by Analytical Chemists and issued via lab reports dated October 1, 2010. Analytical results were collected from five test pits from both the fill and natural formation soil layers. An exceedance of lead relative to the Site Permit shaping layer material chemical limits was noted in the fill layer within test pit #3. This information was factored into the final memo of recommendations issued by the IEM dated October 26, 2010 regarding the approved locations and depths of shaping layer material from the source site.

The IEM was on-site on November 10, 2010 to visually inspect and confirm that all fill and petroleum impacted fill from Areas of Concern 1 and 2 were removed. The IEM was also on-site on November 12, 2010 to observe the sampling of three additional sample locations of natural formation soil. The IEM submitted a detailed email to the NYSDEC and NYCDPR summarizing the November 12, 2010 site visit. Shaping material analytical results were reviewed for the PS-310 source site for three samples collected on November 12, 2010. All parameters met Permit criteria for import to the Site.

Approximately 5,308.48 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.2 PSAC

Initial site and fill material information was provided to the IEM between October 25 and November 5, 2010 by Gannett Fleming (the previous IEM). No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.3 Barclays Arena (620 Atlantic Avenue, Brooklyn, NY)

Initial site and material information was provided to the IEM by Gannett Fleming (the previous IEM) between October 18 and November 5, 2010. An initial site visit was completed by the IEM to initially inspect site conditions and materials at the source site. The IEM issued a memo of recommendations for the source site on November 16, 2010 based on materials available at that time. Materials were not reviewed further or imported to the Site at that time.

New material became available at this source site and additional data was provided for IEM review between December 18 and December 31, 2010. The review of this additional data and associated information was initiated. The sampling plan from mid-November 2010 was resubmitted to NYCDPR for the new materials being evaluated at Barclays Arena between January 1 and January 14, 2011 as the

original plan still applied to the additional/revised materials being made available. NYCDPR subsequently notified the IEM that the site source manager did not consider the Site as a viable option at that time.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.4 JFK Jet Blue/Delta Runway (Jamaica, NY)

On December 3, 2010, NYCDPR forwarded the IEM initial lab data for this potential source site associated with a Jet Blue/Delta runway at JFK Airport. On December 6, 2010, the IEM visited the potential source site to inspect the material totaling an estimated 7,000 cubic yards. The IEM witnessed evidence of asphalt and slag in the fill material and notified NYCDPR and the NYSDEC that the material was not a viable option for import to the Site. (See section 3.2.3)

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.5 Columbia University

Initial site and material information was provided to the IEM by Gannett Fleming (the previous IEM) between October 25 and November 5, 2010.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.6 Long Island Jewish Center (270-05 76th Avenue, New Hyde Park, NY)

The IEM conducted an initial site visit on November 5, 2010. An email containing the summary of site visit activities and summary of recommendations was provided. The IEM issued a formal memo of recommendations on November 11, 2010.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.7 Highbridge Terrace (220 West 167th Street/Sedgewick Avenue, Bronx, NY)

On January 10, 2011, a formal fill source site review was initiated for the Highbridge Terrace source site. Sanborn Maps, historical topography maps, historical aerial photos, and the EDR and NYSDEC Spill Databases were reviewed. Approximately 5,900 cubic yards of potential fill material was reportedly available. Initial analytical data was provided however, the IEM was informed by NYCDPR that this potential source site was no longer a viable option at the time and further review did not occur.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.8 Astoria (27-07 23rd Avenue, Queens, NY)

A formal fill source site review was conducted for the Astoria source site February 3, 2011 and consisted of the review of historical information and existing source site sampling data and EDR information. The existing sample data was reviewed and some sample results did not meet the Site Permit limits for shaping material. Preliminarily, the site contractor estimated approximately 2,000 cubic yards of potentially approvable material. The initial review was completed and NYCDPR reported that this source site was no longer a viable option and no further action was expected.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.9 Eastside Access (Queens Street and Jackson Avenue, Queens, NY)

A coordination call was held with the IEM, NYCDPR, and the source site contractor on February 8, 2011. The IEM witnessed initial source site sampling as requested by NYCDPR at the Eastside Access source site on February 9, 2011. A total of seven grab sample collections were observed and one discrete VOC sample collection was observed. The existing stockpile was estimated to measure approximately 2,000-4,000 cubic yards based on an approximation of stockpile dimensions by the IEM.

The IEM received a submittal of information from NYCDPR between February 12 and February 25, 2011. The IEM reviewed the material and found the site to be noncompliant with the Site Permit as material could not be segregated and stockpiled at the source site. Per NYSDEC directive, NYCDPR would be coordinating directly with the NYSDEC for further site review. The site was reviewed by the NYSDEC and a site-specific analytical parameter list (for Metals) was approved by the NYSDEC between March 12 and March 25, 2011.

Between March 26 and April 8, 2011, the IEM was notified by the NYSDEC and NYCDPR that this source site had been approved to export fill materials to the Site by the NYSDEC. The IEM discussed the conditions of the approval with the NYSDEC and began witnessing sample collection of the East Side Access crushed stone material and review of lab reports.

The IEM conducted monitoring of shaping layer material sampling and loading at the East Side Access source site for materials exported to the Site. Sampling at this source site generally occurred the day before materials were expected to ship to the Site. Samples were being analyzed for metals, laboratory results were compared to the Site Permit requirements, and no exceedances of shaping material limits were identified.

Between April 2011 and December 2011, the IEM continued monitoring for this source site. The IEM witnessed sample collection of East Side Access crushed stone material every 10,000 cubic yards, reviewed lab reports, and periodically monitored loading of trucks with shaping layer materials for export to the Site as materials were shipped to the Site.

The IEM reviewed the lab results related to the IEM witnessed source site sampling conducted on December 12, 2011 for proposed shaping material at the East Side Access source site and found the sampled material to be unacceptable for import to the Site based on the fact that the detected value for Arsenic was 48.7 ppm. The permit allowable maximum concentration for Arsenic is 28 ppm. The sampled material was determined to be unacceptable for import to the Site as shaping layer material per the Permit.

NYCDPR requested that the material sampled on December 12, 2011 be removed from consideration for import to the Site and requested that a sample be collected for the next available material at the East Side Access source site. The IEM reviewed the lab results dated December 14, 2011 related to the IEM witnessed sampling conducted on December 13, 2011 for the proposed shaping material and found them to be acceptable based on the fact that the RCRA metals results fell below the Permit shaping layer material allowable maximum concentrations and the Permit USEPA referenced testing method was used. It was determined that approved shaping material to be imported to the Site could only originate from the stockpiles witnessed during the December 13, 2011 sampling event. Material previously sampled on December 12, 2011 was not imported to the Site.

NYCDPR and their associated representatives hypothesized that the unacceptable sample results for arsenic may be a result of a change in the rock removal process, which included drilling, blasting, and crushing to generate the shaping layer material. On December 16, 2011, the NYSDEC stated that if the mining technique did not change (i.e. drilling as opposed to blasting) the sampling frequency could remain unchanged on the basis of the number of successful past results. However, in the event of another failure, the sampling frequency would become one sample per 2,000 cubic yards. The IEM proceeded with observing one sample per 2,000 cubic yards based on a change in mining operations as per discussions with the source site operator.

On February 7, 2012, the NYSDEC stated that based on the number of successful test results for the East Side Access material since the December 12, 2011 failure due to high arsenic content, the NYSDEC approved NYCDPR's request for future testing of East Side Access material at a reduced frequency of one sample per 10,000 cubic yards.

On December 18, 2012, Analytical Chemists collected samples from stockpiled East Side Access Source Site shaping material at the Site that had elevated PID readings when scanned during the on-site inspection process upon import and after dumping. The six segregated loads of East Side Access shaping layer material passed the Site Permit criteria for shaping layer material based on sampling conducted at the Site. Sampling consisted of collected samples witnessed by the IEM on December 18, 2012. Therefore, the material remained on-site and was used as shaping layer material.

Approximately 191,293.87 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.10 Kew Gardens (Van Wyck Expressway between Grand Central Avenue and 86th Avenue, Queens, NY)

Initial site and material information was provided to Woodard & Curran by Gannett Fleming (the previous IEM) between October 25 and November 5, 2010.

A formal fill source site review was initiated for the Kew Gardens between November 6 and November 19, 2010 consisting of compiling and reviewing historical maps, photos, EDRs, and spills database and available information from the source site contractor.

A formal fill source site review was continued for the Kew Gardens source site between November 20 and December 3, 2010 and consisted of the review of Sanborn maps, topographic maps, aerial photographs, NYSDEC spills and remediation database, and the City Directory. A Phase II Environmental Site Assessment (ESA) and associated analytical data was reviewed and sample results did not exceed the Permit limits for shaping layer material. Preliminarily, the source site contractor estimated approximately 10,000 to 15,000 cubic yards of potentially approvable material was available.

On February 11, 2011, the IEM issued a memo of recommendations and sampling plan for the Kew Gardens source site.

The IEM conducted fill material source site sampling oversight at the Kew Gardens site on February 17, 2011. Six areas (1, 2, 3, 4, 5, and 9) were assessed by IEM desktop review and a sampling plan was submitted to, and approved by the NYSDEC for potential cover material evaluation. Representatives from the laboratory, NYCDPR, IEM, and the source site operator met prior to the initiation of sampling activities. The source site operator stated that the full extents of Areas 4, 5, and 9 would not be accessible for visual screening and analytical sample collection and soils in Area 9 were being actively loaded for off-site use. NYCDPR requested that source material evaluation proceed for accessible material. Composite grab and discrete VOC soil samples were collected for laboratory composite and analysis from Areas 1, 2, 5, and 9. Area 4 was not accessible for evaluation. Asphalt and other materials non-compliant with the Site Permit were observed on various soil horizons in Area 3, and as such, no samples were collected as the material was no longer considered for import to the Site.

On February 25, 2011, NYCDPR submitted draft analytical data from the Kew Gardens site for IEM review. At the request of NYCDPR, the IEM performed an initial review of the draft analytical data for cover material, understanding that no final determination can be made until the complete and final data package has been submitted, reviewed by the IEM, and approved by the NYSDEC. The initial IEM review identified cadmium in composite samples from Areas 1, 2, 5, and 9 at concentrations that exceed the Site Permit requirements for cover material. NYCDPR was informed and subsequently requested the material be evaluated for shaping layer material. No exceedances of the Site Permit requirements were identified in the draft data submittal. Additional draft data from the Kew Gardens source site was submitted on March 8, 2011. No exceedances of the Site Permit requirements were identified in that draft data submittal.

Final laboratory data was submitted to the IEM for review on March 18, 2011. Laboratory results were compared to the Site Permit requirements and no exceedances of shaping layer material limits were identified. Metals concentrations in the samples did exceed cover layer material limits. Fill material from

the Kew Gardens source site was approved by the NYSDEC for importation to the Site for use as shaping layer material on March 24, 2011.

Per NYCDPR request, the IEM submitted the Kew Gardens EDR files to NYCDPR on July 1, 2011.

Beginning on August 5, 2011, NYCDPR indicated to the IEM that they had renewed interest in considering shaping layer material from Area 17 at the Kew Gardens source site. The IEM provided a list of concerns and items to address in the sampling plan associated with the attempt to obtain approval for this shaping layer material. On August 11, 2011, NYCDPR indicated that the Kew Gardens review was on hold.

On September 19, 2011, IEM representatives were on-site at Area 17 of the Kew Gardens Source Site to perform a visual, physical, and PID inspection of the existing soil via a total of seven test pits excavated from ground surface to approximately 12 feet to 16 feet below the existing ground surface. The first four test pits were excavated to approximately terminal depth. The last three test pits were terminated prior to reaching terminal depth due to instability of the sidewalls as a result of the presence of dry sand material. The test pits were completed consecutively moving from south to north. The area consisted of approximately 10,000 cubic yards of proposed shaping layer material as identified by NYCDPR and the source site contractor. In addition, the IEM witnessed the collection of grab samples for chemical analysis by NYCDPR's laboratory and logged the test pit locations using handheld GPS equipment.

IEM staff observed an initial layer of organics, which contained a slight odor attributable to decomposition and yielded PID results of 0.1 to 0.5 ppm. This material was not approved for use at the Site and this was communicated directly to NYCDPR and the site contractor. The IEM indicated that any potential approval of shaping layer material from Area 17 would require the full removal of the organic layer prior to any loading and shipping of potentially approval soils to the Site, which would need to be confirmed by the IEM.

The soil below the initial organic layer (beginning approximately 0.5’-1.5’ below grade) consisted of brown, silt with some sand and a trace of clay. Cobbles and boulders were also evident throughout the soil profile. No soil staining or odors were observed, and the material encountered below the organic layer was generally consistent in composition. The soil shifted to more of a sand and cobble composition as the test pits progressed towards the north. No asphalt or any other debris was observed in the soil, and the PID scans did not yield any detections.

IEM staff observed the collection of a grab samples at approximately two-foot intervals in each of the seven test pits completed at the Kew Gardens Source Site on September 19, 2011. It was estimated by NYCDPR and the site contractor that approximately 10,000 cubic yards were available from Area 17 of the source site. In addition to the required discrete sampling of VOCs/TCLP VOCs, the lab was instructed by NYCDPR to run three composite samples for the remaining analyses. The composite samples consisted of the grabs from each depth interval. The first two test pits completed represented composite sample #1, the second two test pits represented composite sample #2, and the last three test pits represented composite sample #3.

The IEM completed a preliminary review of shaping layer material originally sampled on September 19, 2011 proposed for import to the Site from Area 17. The IEM required a revised lab report from Analytical Chemists which contained the TCLP VOA and Metals results as well as the dioxin/furan scan using SW 8270. All other lab data was complete and did not exceed any of the Site Permit criteria. Prior to final

approval to import this material to the Site, NYCDPR was required to obtain the NYSDEC's approval to use the alternative dioxin/furan analysis.

NYCDPR received NYSDEC approval to use Method 8270 for analysis of dioxins/furans at this source site on January 3, 2012. The IEM completed a final review of shaping layer material (originally sampled on September 19, 2011) proposed for import to the Site from Area 17 on January 4, 2012. The review of available lab data identified that sampled material does not exceed any of the Site Permit criteria. On January 5, 2012, the IEM inspected the source site and visually confirmed the removal of the top 0.5 feet to 1.5 feet of soil which consisted of an initial layer of organics that were previously considered unacceptable for import to the Site. It was determined that the available shaping layer materials from Area 17 totaling approximately 500 cubic yards of the original estimated 10,000 cubic yards were approved for export to the Site.

The source site operator provided the IEM with a proposed excavation plan on December 5, 2012 for additional materials available at the source site. On December 8, 2012, the IEM notified NYCDPR that the previous desktop review (i.e. EDR, etc.) performed for this source site was still applicable for the latest area proposed for excavation. The IEM was on-site at the Kew Gardens source site on December 14, 2012 to witness test pits and environmental sampling for additional shaping layer materials being considered for import to the Site.

On January 3, 2013, the IEM provided a memo of recommendations to the NYSDEC regarding an additional estimated 7,500 cubic yards of shaping layer material being considered for import to the Site that was sampled on December 14, 2012. On January 4, 2013, the NYSDEC approved the importation of this material to the Site subject to the following conditions. The outer limits and depths of all areas of excavation should be clearly delineated in the field and confirmed by the IEM in the field prior to any excavation, loading, or trucking of approved soils. The approval only applied to the material samples and inspected on December 14, 2012, consisting of what appeared to be native material, free of debris and any traces of organics. The limits beyond test pit #8 consisted of observed unauthorized C&D material mixed into the soil (i.e. metal and glass, etc.), and were not approved for import to the Site. The IEM periodically inspected the excavation and hauling activities at the Kew Gardens Phase II site to perform visual and physical screening of the proposed shaping layer material. Inspection frequency was at the discretion of the IEM and the NYSDEC. The exportation of all material to the Site was conducted in accordance with the current Permit requirements (i.e. trucking manifests, etc.).

On June 5, 2013, the IEM issued a third memo of recommendations dated June 5, 2013 for the Kew Gardens source site. The IEM notified NYCDPR that the latest round of shaping layer material (approximately 5,000 CY) was acceptable for import to the Site due to the fact that the material met the Site Permit requirements. The approval applied to the material sampled and inspected on May 22, 2013, consisting of what appeared to be native material, free of debris and any traces of organics, and as delineated horizontally and vertically on the provided test pit plan. The top portion of unauthorized soil (i.e. RCA, geotextile, organic) was stripped and removed off-site to the depths and locations listed on the provided test pit plan, and this condition was witnessed by the IEM prior to importation to the Site. The importation of all material to the Site was conducted in accordance with the Permit requirements (i.e. trucking manifests, etc.).

Approximately 11,988.51 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.11 PS-285 (1065 Martin Luther King Boulevard, Bronx, NY)

On March 10 and 11, 2011 the IEM was provided with fill source site documentation for the PS-285 source site. The IEM initiated review of the source site materials provided per request of NYCDPR. Site visits to the PS-285 source site by the IEM were completed on March 14, 2011 to observe test pits and on March 25, 2011 to discuss the approval process and submittal requirements. NYCDPR requested the IEM purchase an EDR Report for the site on March 25, 2011.

The IEM witnessed additional test pits and sampling on March 29, 2011. At the time of sampling, certain portions of the source site were not accessible for sampling. Samples were collected from four test pits and composited into two samples. Lab results were provided on March 30, 2011, but were deemed incomplete by the IEM. A revised report was submitted to the IEM addressing the missing parameters, but it did not address the non-compliant dioxin/furan USEPA Test method used to generate the lab report. Final laboratory data was submitted to the IEM for review on April 5, 2011. Laboratory results were compared to the Site Permit requirements and no exceedances of shaping material limits were identified. Additional review by the IEM and the NYSDEC was required to determine if the source site was approved for material importation to the Site. The IEM completed the review of NYCDPR's EDR and desktop review, and issued a memo to the NYSDEC detailing the IEM's review results on April 5, 2011. The NYSDEC provided their review comments on April 7, 2011.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.12 Flushing Hotel (133-63 Roosevelt Avenue/39-20 Prince Street, Queens, NY)

NYCDPR requested that the IEM order and provide the EDR materials to NYCDPR for their review and submission to the IEM. The draft initial submittal was provided to the IEM over the course of several days (April 5, 6, and 7, 2011). The IEM’s review commenced during this timeframe.

The IEM witnessed test pits and sampling at the Flushing Hotel source site on April 8, 2011. Final laboratory data was submitted to the IEM for review on April 19, 2011. Laboratory results were compared to the Site Permit requirements and no exceedances of shaping layer material limits were identified. Additional review by the IEM and the NYSDEC was required to determine if the source site was approved for material importation to the Site.

The IEM conducted a review of NYCDPR's EDR review, as well as a full review of the EDR, and submitted Phase I and Phase II ESA reports. The IEM reviewed the lab results provided on April 19, 2011. The IEM prepared a review document dated April 20, 2011 titled "Flushing Hotel Source Site - Desktop Submittal Review" and submitted it to NYSDEC and NYCDPR. The NYSDEC provided a response on April 21, 2011.

NYCDPR provided the IEM with supplemental historical lab data and two (2) separate Phase II reports on April 26, 2011. The IEM provided additional review comments based on the aforementioned documents to NYCDPR via conference call and email on April 29, 2011. NYCDPR provided a draft submittal response package dated May 5, 2011.

NYCDPR provided the IEM with a final submittal dated May 13, 2011 in response to IEM comments. The IEM reviewed the final submittal and transmitted that submittal to the NYSDEC for review and comment on May 18, 2011. Due to the fact that this was a complex site, final comments regarding acceptance for import to the Site was to be provided by the NYSDEC.

Conditional approval for the export of shaping material from rows 4, 5, and 6 was provided from the NYSDEC on May 27, 2011. The IEM witnessed the first day of test pits on June 3, 2011 as requested by NYCDPR. Five test pits were excavated at the source site to the maximum depth reachable by the heavy equipment available. The IEM witnessed a second day of test pits on June 6, 2011 as requested by NYCDPR. Three additional test pits were excavated to the maximum depth reachable by the heavy equipment available. NYCDPR submitted a revised site review proposal for importing shaping layer material from this source site on June 15, 2011.

A total of eight (8) test pits were excavated at the Flushing Hotel source site on June 3 and June 6, 2011. One composite sample and one discrete VOC sample was collected from each test pit. Lab results were submitted to the IEM on June 10, 2011. The IEM provided preliminary review and comments to NYCDPR regarding the source site review proposal on June 17, 2011.

The IEM submitted the memo of recommendations to the NYSDEC on June 20, 2011. The IEM visited the site on June 21, 2011 to confirm conditions within the memo of recommendations were met or could be achieved. The IEM reported conclusions to the NYSDEC via email on June 21, 2011. The observed site conditions did not allow for the source site to be approved due to the presence of asphalt, objectionable material, and stockpiles that did not allow for the confirmation of soil elevations. The NYSDEC also indicated that as of June 21, 2011, a formal submittal from NYCDPR to NYSDEC had not occurred to date. The IEM's site observations from June 21, 2011, were emailed to NYCDPR on June 23, 2011. NYCDPR submitted a revised site proposal on June 27, 2011. On June 28, 2011, the IEM indicated that items included in NYCDPR's submittal were non-complaint with the current Site Permit requirements, and therefore required approval from the NYSDEC.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.13 2nd Avenue (2nd Avenue and 94th Street, New York, NY)

The IEM witnessed fill material sampling for this potential source site on May 12 (two samples) and May 16, 2011 (one sample) regarding acceptance of crushed rock from NYCMTA's 2nd Avenue Subway construction project at 94th Street in Manhattan. Samples were analyzed for the nine RCRA metals and all passed the Site Permit requirements relative to the nine RCRA metals. One sample on May 12 was collected from material directly out of the hopper after it was deposited into a truck and the other sample was taken from a stockpile. The May 16 sample was also taken from material that came directly out of the hopper and deposited directly into a truck. The NYSDEC performed all associated reviews for this

source site similar to the East Side Access source site due to the nature of the material that was being generated from subway tunnel construction.

The NYSDEC provided approval for this source site to export shaping layer material to the Site. Shaping layer material sampling began on May 26, 2011 and occurred on a continual basis after each consecutive 2,000 cubic yards of material was imported to the Site.

Approximately 86,667.95 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.14 2nd Avenue (2nd Avenue and 72nd Street, New York, NY)

NYSDEC staff reviewed NYCDPR's submittal dated October 28, 2011 regarding acceptance of crushed rock from NYCMTA's 2nd Avenue Subway construction project at 72nd Street in Manhattan which was proposed for import to the Site. NYCDPR's proposal was acceptable to the NYSDEC provided that a composite sample of this material was tested for the proposed analytical parameters and the sample results were obtained (and approved) prior to loading material for export to the Site.

The IEM reviewed the lab results related to the IEM witnessed source site sampling conducted on December 5, 2011 for the proposed shaping layer material at the source site. The IEM identified that the sampled material was unacceptable for import to the Site based on the fact that the detected value for Arsenic was 38.4 ppm. The permit allowable maximum concentration for Arsenic is 28 ppm. The sampled material was determined to be unacceptable for import to the Site as shaping layer material per the Permit. It was determined that no material may be imported from the 2nd Avenue at 72nd Street source site to the Site. The IEM also witnessed that the physical composition of the sampled material was not that of pure stone dust as witnessed previously at the 2nd Avenue (94th Street) and East Side Access source sites. This material had stones as large as 12 inches to 24 inches in size. The IEM was advised that the hopper at the 2nd Avenue at 72nd Street source site used a screen that contained openings that were 24 inches by 20 inches.

On December 5, 2011, NYCDPR requested that the IEM witness one additional sample from the 2nd Avenue at 72nd Street source site. On December 6, 2011 in response to NYCDPR’s request to perform one additional sample, the NYSDEC stated that if re-sampling produced acceptable results, a more stringent sampling frequency would be required for this source (i.e. one sample per 2,000 cubic yards instead of one sample per 10,000 cubic yards). NYCDPR advised the IEM that they were not pursuing material from this source site any further because it did not meet the specified physical properties for the golf course construction.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.15 Alexander Hamilton Bridge (Bronx, NY)

NYCDPR notified the IEM on February 8, 2012 that NYCDPR was interested in the opportunity to obtain potential shaping layer materials from the Alexander Hamilton Bridge source site (originally sampled July

7, 2009) which had been reviewed and approved in the past by the previous IEM. The IEM requested, obtained, and reviewed the previous files for the source site including previous approvals and corresponding lab data. On February 10, 2012, the IEM requested and received the proposed location for the recently considered shaping layer material.

The IEM visited the Alexander Hamilton Bridge source site on February 22, 2012. The IEM visually inspected a stockpile of approximately 3,000 to 5,000 cubic yards of potential shaping layer material from the previously approved source site (as per IEM records from 2009). Upon a visual inspection, it was determined that the material did not meet the Site Permit requirements due to the presence of unauthorized C&D material including asphalt and metal, as well as other miscellaneous debris. Site observations were photo documented. The IEM notified NYCDPR of its observations and NYCDPR determined that they did not want to pursue this source site any further at that time.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.16 Throgg's Neck/Target/USPS (815 Hutchinson River Parkway, Bronx, NY)

On February 28, 2012, NYCDPR requested that the IEM begin the source site review for the Throgg's Neck/Target/USPS source site. The source site was an existing USPS building that was proposed to be redeveloped with a new Target retail building. The anticipated volume of material being considered as potential shaping layer material was reported to be approximately 20,000 cubic yards per information forwarded to the IEM by NYCDPR. The IEM ordered the EDR and provided the EDR information to NYCDPR. The IEM reviewed the Phase I ESA and the Phase II ESA. The IEM completed a review of the EDR on March 9, 2012. NYCDPR provided the IEM with an EDR review memo on March 27, 2012. The IEM provided NYCDPR with some initial comments and NYCDPR submitted a revised EDR review memo on April 2, 2012.

NYCDPR provided the IEM with a proposed sample location plan with proposed depths for source site sampling on April 19, 2012. The IEM provided comments on a revised sampling plan identifying the location and quantity of test pits on April 20, 2012.

The IEM witnessed three of ten proposed test pits and the associated source site sampling at the source site on April 25, 2012. The remaining test pits were completed and witnessed by the IEM on May 11 and May 14, 2012.

The IEM reviewed the lab data (originally dated May 15 and May 24, 2012 and revised May 30, 2012) and no exceedances of shaping layer material limits were identified. The IEM prepared a memo of recommendations and submitted it to the NYSDEC on May 30, 2012. The NYSDEC reviewed the IEM's May 30, 2012 memo of recommendations for the source site. On May 31, 2012, the NYSDEC approved importation of shaping material from this source site to the Site, provided that all recommendations in the memo of recommendations were implemented. The source site commenced trucking shaping layer material to the Site.

The IEM conducted an inspection of the source site on November 6, 2012. The purpose of the inspection was to determine if site conditions warranted allowing the source site to resume importation of shaping layer material to the Site, in light of the nine truck rejections (due to presence of asphalt) that occurred on October 23, 2012 (resulting in ceasing of importation that same day). Based on the IEM inspection and observations, it was determined that importation may resume to the Site. Observations included surface asphalt had been stripped from within the approved limits of excavation between former TP-6 and TP-8, stockpiles of excavated soil from areas outside the approved excavation limits (i.e. cut along Weiner Place) were located outside the approved excavation limits, and no stockpiles of asphalt material or other poor housekeeping practices were observed within the current area in preparation for export to the Site. NYCDPR was notified that all importation must comply with all previous conditions outlined in the source site approval memo of recommendations (i.e. top +/-3 feet of fill was not approved for importation to the Site; this layer was clearly identifiable due to its color and consistency relative to the native approved material).

The IEM was on-site at the source site on February 6, 2013 to complete a source site inspection associated with a request to resume import to the Site. The site was approved to resume importation of shaping layer material on February 6, 2013 based on the IEM's inspection, which confirmed that the material originated from IEM inspected/approved areas, and the fact that the material is the native approved soil, and there are no signs of asphalt or historical fill on-site in the vicinity of the work area. The area inspected was consistent with the approved areas included in the original NYSDEC approval and IEM memo of recommendations.

Approximately 27,262.77 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.17 PS-287 (110-10 Northern Boulevard, Queens, NY)

On March 2, 2012, NYCDPR requested that the IEM begin the source site review for the PS-287 source site. The source site was a former parking facility that was being redeveloped into a new school. The anticipated volume of material being considered as potential shaping layer material was reported to be approximately 7,000 to 9,000 cubic yards per information forwarded to the IEM by NYCDPR. The source site operator expected to remove the top two feet of asphalt and historical fill, as well as a one-foot buffer. The potential shaping layer material that was being considered was what was claimed to be native soils from a depth of approximately 3 feet to 15 feet below grade. NYCDPR and the site operator wanted to proceed with sampling prior to review of the EDR. A sampling plan was provided to the IEM for review. The IEM completed a review of submitted documents including the Phase I ESA, Phase II ESA, and the proposed sampling plan and issued a review memorandum with comments on March 7, 2012. The site operator submitted a revised sampling plan for review by the IEM on March 8, 2012.

The IEM received NYCDPR's initial review of the EDR on March 14, 2012. The IEM completed a review of the EDR and forwarded a copy to NYCDPR on March 16, 2012. On March 16, 2012, the IEM requested that NYCDPR submit a revised EDR review memo incorporating the identified Recognized Environmental Concerns ("RECs") and other site conditions that were not included in the original review memo.

On March 22, 2012, the IEM received sample results for shaping layer source site sampling that occurred on March 15, 2012. The IEM completed an initial review of the sample data and although there were no exceedances relative to the Site Permit limits for the parameters that were analyzed in the lab reports, there were multiple parameters missing from the lab report.

The IEM received a revised lab report for the PS-287 source site on March 28, 2012. The IEM reviewed the revised lab report for the previously missing lab data and confirmed that the tested soil met the Site Permit criteria for shaping layer material. The IEM issued a memo of recommendations for this source site to the NYSDEC on March 28, 2012. The IEM visited the source site on March 30, 2012 and confirmed that all asphalt, historic fill, and areas not being considered for import to the Site were previously removed from the source site to the appropriate depth including the one-foot buffer below the fill layer. The NYSDEC approved the PS-287 source site for shaping layer material and NYCDPR was notified of the approval on April 2, 2012.

Approximately 6,754.8 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.18 City Point Brooklyn (1 DeKalb Avenue, Brooklyn, NY)

The IEM issued a desktop review summary for the City Point Brooklyn source site to the NYSDEC on July 27, 2012. The review included information acquired or provided to the IEM including EDR files, Phase II report, and boring information. The material being considered was approximately 22,000 cubic yards of native material proposed to be used as shaping layer material.

The NYSDEC approved the City Point Brooklyn source site for further investigation (i.e. physical and visual inspection via test pits and sampling) on August 13, 2012 since all environmental samples for the source site were made available to the IEM for review.

The IEM was on-site at the source site on August 31, 2012 to witness site investigation and sampling activities for 8,000 cubic yards of potential shaping layer material.

On September 11, 2012, the IEM received sample results for source site sampling that occurred on August 31, 2012. On September 20, 2012, the IEM issued a Site Investigation Memorandum (dated September 19, 2012) to the NYSDEC for review for the source site related to IEM witnessed activities that occurred at the source site on August 31, 2012.

On September 25, 2012, the NYSDEC notified the IEM that the City Point source site was conditionally approved pending implementation of the recommendations included in the IEM's September 19, 2012 Site Investigation Memorandum and satisfactory responses to NYSDEC questions.

On October 10, 2012, the IEM notified NYCDPR that the City Point Brooklyn source site was approved by the NYSDEC considering implementation of the recommendations included in the IEM's September 19,

2012 Site Investigation Memorandum. The IEM needed to complete a final inspection of the proposed material prior to importation to the Site.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.19 400 Park Avenue South (New York, NY)

The IEM received initial documents associated with this source site beginning on July 3, 2012. The IEM performed an initial review of the submitted documents. The IEM requested a proposed sampling plan on July 11, 2012.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.20 Union Street (43-31 Union Street, Flushing, NY)

On May 15, 2012, NYCDPR submitted a request to the NYSDEC to import shaping layer material from the Union Street source site. On June 11, 2012, the NYSDEC provided NYCDPR with email approval to import up to 30,000 cubic yards of shaping layer material from the Union Street source site based on environmental testing results submitted to the NYSDEC that was not witnessed by the IEM. On June 14, 2012, NYCDPR notified the IEM that they would begin importing, no earlier than June 18, 2012, an estimated 5,000 to 10,000 cubic yards of shaping layer material from this source site to the Site. The material originated from 30 to 55 feet below grade.

Approximately 1,675.69 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.21 Mount Vernon Recycling Corp. (113 Edison Avenue, Mount Vernon, NY)

On November 27, 2012, the IEM notified NYCDPR that the topsoil on-site that originated from the Mount Vernon Recycling Corp. facility was approved as shaping layer material based on previous NYSDEC approval allowing material to be used as shaping material, and the fact that the material passed all Site Permit criteria per IEM witnessed sample collection and a review of the associated analytical reports. The IEM witnessed sampling on October 11 and November 12, 2012. The approval was pending a receipt of all truck tickets/manifests, and confirmation of the volume of on-site soil. The Site Permit requires that this material be covered with a minimum 1-foot thick layer of approved cover soil.

Approximately 3,920.0 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.22 228th Street (Rosedale, NY)

The IEM completed a review of initial lab data dated December 28, 2012 for the 228th Street source site. Of the 12 lab reports that were reviewed, none of the sampled soil exceeded Site Permit levels for the shaping layer parameters that were analyzed in the reports. A significant number of parameters (including some VOCs, SVOCs, pesticides, and metals) were not analyzed and NYCDPR was notified of the review

findings on January 22, 2013. Sample collection for the submitted lab reports was not witnessed by the IEM.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.23 Evergreen Recycling/Tully Environmental (Willets Point Boulevard, Corona, NY)

On January 28, 2013, the IEM notified NYCDPR that an initial review of the lab data provided for the Evergreen Recycling source site (operated by Tully Environmental) was completed. Sampling was not witnessed by the IEM. There were no exceedances relative to the Site Permit criteria for shaping layer material, however there were a significant number of parameters that were not analyzed. The IEM received a Registration Form for a Waste Management Facility (DEC Registration # 41W93) for the source site. The IEM performed a visual inspection of stockpiled material at the source site material on January 30, 2013 and identified asphalt fragments in the source site material. The stockpiled material was not acceptable for import to the Site based on the presence of asphalt.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.24 Waterpointe-Whitestone

On February 1, 2013, the IEM notified NYCDPR that an initial review of the lab data provided for the Waterpointe-Whitestone source site was completed. Sampling was not witnessed by the IEM. There were no exceedances relative to the Site Permit criteria for shaping layer material, however there were a significant number of parameters that were not analyzed.

On March 27, 2013, the NYSDEC informed NYCDPR that shaping layer material from the Waterpointe-Whitestone source site could be imported to the Site if the material meets the required Permit limits and that the NYSDEC review would continue once involved staff was available to complete the review. On April 3, 2013, the IEM forwarded the NYSDEC correspondence regarding previous NYSDEC work plan acceptance for the proposed source site, which was for work occurring as part of a separate project under NYSDEC review.

On April 3, 2013, the NYSDEC confirmed that the Waterpointe-Whitestone source site was not approved as a potential source for shaping layer material.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.25 Don Carlo Environmental/Brooklyn (1247 38th Street, Brooklyn, NY)

On February 1, 2013, the IEM notified NYCDPR that an initial review of the lab data provided for the Don Carlo Environmental/Brooklyn source site was completed. Sampling was not witnessed by the IEM. The results in the submitted report exceeded the levels in the Site Permit for shaping layer material for the

VOC's ethylbenzene (6.9 ppm vs. 5.5 ppm), toluene (2.1 ppm vs. 1.5 ppm), and xylenes (57 ppm vs. 1.2 ppm). There were a significant number of parameters that were not analyzed.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.26 Castle Hill Recycling (1000 Zerega Avenue, Bronx, NY)

On February 11, 2013, NYCDPR provided the IEM with a permit for Castle Hill Recycling (DEC Registration #03-W-94) that was being considered as a potential shaping layer material source site. The IEM was notified that the source site was creating a 2,000 cubic yard stockpile for sampling. Castle Hill Recycling was a NYSDEC registered solid waste management facility.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.27 Springfield Gardens

On February 21, 2013, the IEM completed an initial review of a soil analysis summary documentation (no lab reports) for approximately 2,500 cubic yards of potential shaping layer material at the Springfield Gardens source site as provided by NYCDPR. The IEM did not witness sample collection. The IEM notified NYCDPR that there were several parameters exceeding the Site Permit criteria and multiple required parameters were not analyzed.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.28 Calvert Vaux (Brooklyn, NY)

On February 20, 2013, NYCDPR provided the IEM and NYSDEC with lab data for the Calvert Vaux source site for approximately 500 cubic yards of shaping layer material. On February 22, 2013, the IEM was notified by the NYSDEC that the NYSDEC would be handling the review of this source site.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.29 160 Myrtle Avenue (Brooklyn, NY)

On February 20, 2013, NYCDPR forwarded the IEM initial sample data information for a potential shaping layer material source site located at 160 Myrtle Avenue, Brooklyn, NY. The potential shaping layer materials totaled approximately 40,000 cubic yards. On February 21, 2013, the IEM notified NYCDPR that the initial review of the soil analysis summary documentation (no lab reports) was completed for the information provided to the IEM. The reviewed material had exceedances for lead and mercury relative to the Site Permit criteria.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.30 215 E. 68th Street (New York, NY)

On March 7, 2013, NYCDPR requested that the IEM review initial lab data for approximately 3,000 to 4,000 cubic yards of potential shaping material at 215 E. 68th Street, New York, NY. On March 8, 2013, the IEM notified NYCDPR that there were exceedances for Mercury and total cSVOC's for multiple samples and multiple VOC, SVOC, Pesticide, and TCLP VOC parameters were missing in all samples.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.1.31 DEP Valhalla (10 Walker Road, Valhalla, NY)

On February 25, 2013, the IEM initiated review of potential shaping material at the DEP Valhalla source site (Catskill and Delaware Water Treatment Facility). On March 1, 2013, the IEM notified the NYSDEC that a review of the initial lab results and site background information was completed. The initial review indicated that there were no exceedances relative to shaping layer material criteria for the hardcopy data, some sample parameters were missing, and there were no records indicating unacceptable background conditions. The IEM notified the NYSDEC that there was a discrepancy in the hardcopy and electronic data and clarification was requested from NYCDPR/NYCDEP. On March 5, 2013, the IEM completed a visual and physical inspection of the potential shaping layer material at the source site. On March 6, 2013, the IEM notified NYCDPR and the NYSDEC that the potential shaping layer material passed all visual and physical inspection requirements and the material passed the Site Permit criteria for shaping layer material (hardcopy data) although not all parameters were tested. In addition, the data provided electronically on CD contained information demonstrating that previous soil investigations identified soil containing elevated levels of lead and mercury that did not pass the Site Permit criteria for shaping layer material. It was communicated to the IEM verbally that the NYCDEP has been handling all impacted soil separate from the stockpiled material that was inspected, and that all impacted soil has been disposed of off-site and tracked accordingly.

On March 13, 2013, the IEM received requested documentation from the source site owner/operator regarding conditions of the existing soil stockpile and removal of contaminated materials at the DEP Valhalla source site. On March 14, 2013, the IEM notified NYCDPR that the IEM must be notified prior to importation of shaping layer material from the DEP Valhalla source site in order to witness initial loading of trucks at the source site.

Approximately 6,631.2 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.32 Tilcon (Bronx) (980 East 149th Street, Bronx, NY)

On April 1, 2013, the IEM received initial lab data and a NYSDEC Registration Form for a Solid Waste Management Facility (NYSDEC Registration #03W39R) for the Tilcon (Bronx) source site. On April 1, 2013, the NYSDEC confirmed that the Tilcon (Bronx) source site had a valid Registration Form for a Solid Waste Management Facility. On April 2, 2013, the IEM notified NYCDPR that a review of the initial lab data was completed and noted that sampled parameters did not exceed Site Permit criteria for shaping layer

material (samples WCA-1 to WCA-6), however the following parameters were not analyzed: TCLP Metals missing for sample WCA-3, WCA-5, and WCA-6, VOC: 1,2,4-trichlorobenzene, methyl ethyl ketone, and tetrachloroethylene in all samples, SVOC: 4-chloro-3-methylphenol, 2-chlorophenol, 4-methylphenol, and naphthalene in all samples, and Pesticides: 2,4 D, dibenzo-p-dioxins, endrin ketone, gamma-bhc, gamma-chlordane, mitotane (2,4 DDD), and parathion. On April 3, 2013, the IEM witnessed sampling of approximately 4,000 cubic yards of the proposed shaping material at the Tilcon (Bronx) source site.

On April 9, 2013, the IEM notified NYCDPR that the Tilcon (Bronx) shaping layer material, totaling approximately 4,000 cubic yards, witnessed by the IEM on April 3, 2013, was acceptable for import to the Site due to the fact that environmental results met the Site Permit requirements. The IEM conducted a visual inspection of material, and the IEM confirmed that the material did not contain unauthorized materials (i.e. asphalt, C&D debris, etc.).

Approximately 3,041.8 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.33 NY Recycling (475 Exterior Street, Bronx, NY)

On April 23, 2013, NYCDPR requested that the IEM initiate review of a potential shaping layer material source site named New York Recycling. On April 24, 2013, the IEM verified that the facility's NYSDEC registration was valid and that the submitted analytical results did not reveal any exceedances relative to the Site shaping layer material Permit requirements; however, several parameters were missing including TCLP metals, TCLP VOCs, and four pesticide parameters. NYCDPR was notified that in order to proceed with this potential source site, the IEM will need to complete a site visit to the facility for visual and physical inspection of the material, and witness collection of samples for chemical testing. In addition, NYCDPR would be required to collect a sample of the fines for submittal to the NYSDEC for review. On April 25, 2013, NYCDPR requested that the IEM take a grab sample of the material fines and provide that sample to the NYSDEC as required. On April 30, 2013, the IEM performed a visual, physical, and PID inspection of the material and collected a sample of fines using a No. 35 sieve. The sample was delivered to the NYSDEC on April 30, 2013.

On Friday, May 24, 2013, the IEM notified NYCDPR that Stockpile #1 of NY Recycling shaping layer material (approximately 8,000 CY) was acceptable for import to the Site due to the fact that the source site qualified as a valid NYSDEC registered C&D processing facility, the IEM conducted a visual/physical inspection of the stockpile on April 30, 2013, the IEM confirmed that the stockpiled material did not contain unauthorized materials (i.e. asphalt, C&D debris, etc.), all PID readings measured 0 ppm, and the environmental results were acceptable per the Site Permit requirements for IEM witnessed sampling completed on May 21, 2013. In addition, a sample of fines was collected by the IEM and submitted to NYSDEC for visual review, and subsequent approval. Approved shaping material to be trucked to the Site could only originate from the stockpile witnessed during the May 21, 2013 sampling event.

On June 19, 2013, the IEM notified NYCDPR that Stockpile #2 of NY Recycling shaping layer material (approximately 10,000 cubic yards) as witnessed by the IEM on June 11, 2013, was acceptable for import

to the Site. The IEM conducted a visual/physical inspection of stockpile #2 on June 11, 2013, and the IEM confirmed that the stockpiled material did not contain unauthorized materials (i.e. asphalt, C&D debris, etc.). The site qualified as a valid NYSDEC registered C&D processing facility and the test results were acceptable per the Site Permit requirements. Approved shaping material to be trucked to the Site could only originate from the stockpile witnessed during the June 11, 2013 sampling event.

On July 16, 2013, the IEM notified NYCDPR that the latest stockpile of shaping layer material (approximately 5,000 cubic yards) from the NY Recycling source site was acceptable for import to the Site. The submitted lab report met all Permit chemical requirements for sample collection witnessed by the IEM on July 11, 2013 and met Permit visual and physical criteria as per inspection by the IEM.

On August 1, 2013, the IEM notified NYCDPR that the latest stockpile of shaping layer material (approximately 5,000 cubic yards) from the NY Recycling source site was acceptable for import to the Site. The submitted lab report met all Permit chemical requirements for sample collection witnessed by the IEM on July 29, 2013 and met Permit visual and physical criteria as per inspection by the IEM.

On October 24, 2013, the IEM notified NYCDPR that the latest 5,000 cubic yard stockpile of NY Recycling shaping layer material as represented by the submitted TAGM lab report and per samples witnessed by the IEM on October 11, 2013, was acceptable for import to the Site. The approval was based on the fact that the source site qualified as a valid NYSDEC registered C&D processing facility and the IEM conducted a visual/physical inspection of the stockpile on October 11, 2013. The IEM confirmed that the stockpiled material did not contain unauthorized materials (i.e. asphalt, C&D debris, etc.), and all PID readings registered in at 0 ppm. The test results were acceptable per the Site Permit requirements. Approved shaping material to be trucked to the Site could only originate from the stockpile witnessed during the October 11, 2013 sampling event.

Approximately 26,688.05 cubic yards of shaping layer material were imported to the Site from this source site.

3.1.1.34 Little Bay (Queens, NY)

On October 16, 2013, the IEM notified NYCDPR of the findings associated with a preliminary review of available data for the Little Bay source site. The IEM reviewed lab data for Stockpiles 1 through 9 (S-1 through S-9). The lab report did not capture all of the parameters required for testing by the Site Permit, and was missing the full TCLP VOC and TCLP Metals analyses, as well as several SVOC, VOC, Pesticide/Herbicide, and PCB parameters. Based on the data presented, at a minimum, the following stockpiles did not pass the Site Permit criteria as shaping layer material: S-1 exceeded for copper, lead, mercury, and total PCBs; S-4 exceeded for mercury; S-5 exceeded for lead and mercury; and S-9 exceeded for mercury and total PCBs.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.2 Cover Layer Material

Materials accepted for use as cover layer on the Site were sampled prior to acceptance and after each additional 2,000 cubic yards. As per the 2005 Permit modification, the parameters for cover layer material included the complete analyte list of TAGM 4046 for total VOCs, total SVOCs, total pesticides and herbicides, total PCBs, total metals, sulfur, and asbestos.

Fill material imported to the Site and used for the cover layer was subject to the following requirements, per Special Condition 14 of the 2014 Permit and Section 4.2.1.2 of the 2013 Engineering Report. A table of the cover layer material chemical acceptance criteria listed below is included in Appendix C.2 of the 2013 Engineering Report.

In order for topsoil material to be used on the Site for the cover layer, it was sampled prior to acceptance and after the importation of each additional 2,000 cubic yards (in truck volumes). Each soil sample was analyzed for the entire analyte list in the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046, total volatile organic compounds (VOCs), total semi-volatile organic compounds (SVOCs), pesticides and herbicides, polychlorinated biphenyls (PCBs), and metals (including Resource Conservation and Recovery Act (RCRA) metals).

Based on source site reviews and site testing activities, the cover layer material imported to the Site met the following chemical limits:

TAGM 4046 Table 1 – Volatile Organic Compounds (VOCs)

TAGM 4046 Table 2 – Semi-Volatile Organic Compounds (SVOCs)

TAGM 4046 Table 3 – Pesticides/Herbicides and Polychlorinated Biphenyls (PCBs)

TAGM 4046 Table 4 – Metals

Total Asbestos 0.5% or less

Total Sulfur 0.5% or less

The following additional criteria were directed in NYSDEC correspondence:

April 30, 2009 – Directed NYCDPR not to accept or place on the Site any cover layer materials with arsenic concentrations greater than 16 ppm or lead concentrations greater than 400 ppm.

July 28, 2009 – Provided a table to NYCDPR listing modified heavy metal chemical limits for the cover layer at the Site.

September 25, 2009 – Revised and clarified the chromium chemical limits for the cover layer previously presented in the July 28, 2009 letter.

NYCDPR followed the NYSDEC's directives since receipt of each one associated with the importation of cover layer material to the Site.

Details of the source site reviews and site testing for each potential cover layer material source site are as follows.

3.1.2.1 Bloomingburg (C.M. & Sons Trucking Site, 680 Bloomingburg Road, Bloomingburg, NY)

NYCDPR requested that the IEM witness fill material sampling for this potential source site on May 9, 2011. The Site is a sand and gravel supply yard. Material was separated into sand and gravel of various sizes and stockpiled. The source site had been importing sand and gravel material from a nearby real estate development under construction. Material being considered for the Site included two stockpiles (SP-1 and SP-2) of a brown, medium to coarse sand. Both stockpiles were from material generated on-site. Each stockpile was approximately 25,000 cubic yards. Prior to sample collection the piles were screened in various locations using a calibrated PID. No detections of VOCs were observed. The material was inspected using a 3/4-inch screen. No prohibited materials were observed in the screened material. The IEM witnessed a total of six samples collected from two separate stockpiles. Per the AES sampling plan, three samples were collected from each stockpile. Each sample consisted of 20 grabs (depths ranging from the surface to three feet into the pile) which were composited. One discrete grab per sample was collected specifically for VOC analysis without being composited.

NYCDPR provided the IEM authorization to commence review of this source site on May 24, 2011. NYCDPR requested this source site review be put on hold on May 27, 2011. It was requested by NYCDPR that the IEM witness sampling for physical parameters on June 1, 2011. NYCDPR provided authorization to the IEM to order the EDR on NYCDPR's behalf on June 8, 2011.

On June 24, 2011, the IEM emailed the final source site review updates to NYCDPR which identified that Sample #2 for SP-1 failed to meet the cover layer material Permit requirements due to an Antimony exceedance. NYCDPR requested that the source site review be put on hold on June 24, 2011. On June 30, 2011, NYCDPR requested that the IEM resume the source site review. The IEM notified NYCDPR that the review was completed on June 24, 2011 and forwarded the original June 24, 2011 review findings/comments to NYCDPR. On July 1, 2011, NYCDPR requested that the IEM provide the EDR files to NYCDPR which were ordered for the site in June. The IEM resubmitted the EDR files to NYCDPR.

On July 8, 2011, NYCDPR submitted a preliminary review of the EDR to the IEM via email. The IEM provided comments to NYCDPR via email. On July 11, 2011, NYCDPR submitted a preliminary site review submittal via email and the IEM provided comments to NYCDPR via email. On July 12, 2011, NYCDPR submitted the site review submittal to the NYSDEC and the IEM via email. On July 12, 2011, the NYSDEC requested that the IEM provide preliminary comments of NYCDPR's submittal and the IEM provided comments to the

NYSDEC via email. On July 15, 2011, the NYSDEC provided comments to the IEM and a request for clarification on NYCDPR's submittal.

The IEM provided NYCDPR a review status update with respect to this source site via phone and email on July 20, 2011. The update contained action items required for NYCDPR to advance the review process. The IEM provided the NYSDEC with an update on the status of NYCDPR submittals for this source site on July 22, 2011 via email. NYCDPR provided the cover layer material permeability testing results to the IEM on July 22, 2011. The IEM consulted with the NYSDEC beginning on July 22, 2011 regarding the permeability results and the IEM notified NYCDPR on July 28, 2011 that the cover soil permeability rate of 1.51 X 10-2 cm/s (21.4 in/hr.) did not meet the NYSDEC maximum allowable permeability of 1 x 10-2 cm/s (14.7 in/hr.). The IEM also requested clarification on NYCDPR's intent on handling the SP-1 Antimony exceedance as identified in lab reports.

NYCDPR requested the analytical lab data from the IEM on August 8, 2011 and indicated that they would be submitting a final proposal to the NYSDEC regarding the request to import cover material from the Bloomingburg source site by addressing outstanding metals and permeability requirements. The IEM forwarded requested lab data to NYCDPR via email on August 8, 2011.

IEM staff visited the Bloomingburg source site to inspect the cover layer material on October 6, 2011 and the existing material appeared to be the same material that the IEM inspected originally in May 2011 with the exception that SP-1 had been removed off-site and was no longer available. The results of the site visit were consistent with what the IEM was told by the site operator earlier on October 6, 2011. The IEM confirmed that the GPS coordinates of the stockpile (SP-2) were consistent with the original location, the soil appeared to be the same color and consistency, and the stockpile had vegetation growing on it, indicative that it had been untouched for an extended period. The IEM witnessed the loading of one truck on October 6, 2011 headed to the Site, which was carrying approximately 26 cubic yards of cover layer material. IEM staff was on-site at Bloomingburg on October 7, 2011 to witness the initial rounds of cover layer material loading.

In general, the NYSDEC allowed up to 16,000 cubic yards of approved cover material (from all cover material source sites) to be stockpiled in the rough of holes 4 and 5 (8,000 cubic yards per hole) prior to satisfying the conditions associated with spreading the cover material on the Site. These conditions included meeting permeability and shaping layer thickness requirements. On October 21, 2011, the NYSDEC provided NYCDPR with a conditional approval to allow NYCDPR to import cover layer material with a permeability of up to 30 inches per hour pending NYCDPR submitting for approval of an amendment to the Stormwater Pollution Prevention Plan (SWPPP). With this permeability approval, NYCDPR was notified that they could spread cover material on-site at their own risk pending shaping layer thickness compliance which occurred at a later time.

Approximately 4,768.0 cubic yards of cover layer material were imported to the Site from this source site.

3.1.2.2 Ranco Sand (115 South Street, Manorville, NY) [LAWS]

On December 2, 2011, the IEM was directed by NYCDPR to order the EDR for the Ranco Sand source site located in Manorville, NY. The IEM visited the Ranco Sand source site on December 8, 2011 to inspect a stockpile of approximately 10,000 to 12,000 cubic yards of proposed cover soil. The soil was inspected and visually appeared to be 100% sand, free of any debris. The material appeared to be native as it was mined from a NYSDEC permitted facility, extending approximately 100 feet below original grade. The stockpile of sand that was inspected was mined from below the water table.

The IEM witnessed the collection of six composite soil samples and six discrete VOC samples, as well as a physical sample to be analyzed for permeability. The IEM logged the location of the perimeter of the stockpile via GPS. The source site owner and NYCDPR were made aware that the stockpile must remain untouched in order for the material to be considered for approval.

NYCDPR/LAWS submitted a copy of a previous NYSDEC mining permit containing the source site's previous permit number (1-4722-00218/00001). LAWS was informed by the source site representative that the source site is operating under a NYSDEC authorized permit extension.

The EDR was ordered on December 9, 2011. The IEM performed a review of the EDR and provided observations and a list of RECs to the NYSDEC. The IEM received the lab data (from the December 8, 2011 sample event) from LAWS on December 19, 2011. The IEM completed review of the lab data on December 19, 2011 and found that the material met the Site Permit criteria for cover layer soil. The IEM reviewed the NYCDPR submittal associated with the EDR for the source site. Based on review of the NYCDPR EDR review memo, site visits, inspections, and data review, the IEM did not have any objections associated with proceeding with this source site. Prior to receiving approval for importation of this cover material to the Site, the NYSDEC needed to receive and review the permeability testing data.

On January 4, 2012, the IEM forwarded the NYSDEC the permeability data for review. On January 9, 2012, the NYSDEC identified that this source site was conditionally approved as a source for cover material based on samples meeting the approved permeability specification at a frequency of one sample per five hundred cubic yards for the initial 2,000 cubic yards (analysis for permeability only). Thereafter, sampling for permeability would be performed at a frequency of one sample per 2,000 cubic yards if the permeability results for the initial 2,000 cubic yards were satisfactory. This conditional approval was based upon information provided by NYCDPR in its January 5, 2012 email and the IEM's January 4, 2012 email to the NYSDEC. Additional permeability sampling witnessed by the IEM was required since only one IEM witnessed sample has occurred (i.e. January 2, 2012). The IEM witnessed permeability testing at the source site on January 10, 2012.

NYCDPR transmitted additional percolation testing results to the NYSDEC on January 26, 2012. The results were for IEM witnessed sampling completed on January 10, 2012 and January 23, 2012. On January 26, 2012, the NYSDEC provided NYCDPR with approval to use the average of twenty permeability test results as representative of the 12,000 cubic yards of stockpiled cover layer material at the source site. This

approval was based on the fact that loading, transporting, stockpiling, and spreading of the material would result in thorough mixing. The initial 12,000 cubic yards were approved for import to the Site.

On February 1, 2012, IEM staff was on-site to observe loading and transportation of cover layer materials from the approved stockpile and completion of trucking manifests. On February 7, 2012, IEM staff notified NYCDPR and NYSDEC that the IEM had reviewed the environmental sample data for the second round of environmental sampling completed on January 30, 2012 for cover soil (i.e. eight composite samples from an approximately 15,000 cubic yard stockpile). Per the results in the lab report transmitted to the IEM, the IEM verified that the material complied with the Site permit criteria for cover layer material. On February 9, 2012, the IEM reviewed the infiltration rate test results for the second stockpile of cover layer material, and all of the sample results met the Site Permit criteria (i.e. less than 29.4 in/hr.). Based on a review of the submitted environmental data and the infiltration testing data, the second stockpile (up to 16,000 cubic yards) was approved for import to the Site since it met all of the Site Permit criteria.

The IEM was on-site at the Ranco Sand source site on February 22, 2012 to witness sampling of a new stockpile of potential cover layer material (stockpile #3). The IEM witnessed the collection of five samples from the stockpile consisting of approximately 10,000 cubic yards of potential cover layer material.

The IEM reviewed the environmental sampling results from the February 22, 2012 sampling event for this source site and found that the sample results fell below the Site Permit limits. The IEM reviewed the percolation test results and found that the percolation rates for stockpile #3 exceeded the established threshold of 29.4 inches/hour. The IEM required a proposal from NYCDPR on an acceptable approach to remedy the percolation rate exceedance.

On March 15, 2012, the NYSDEC notified the IEM that the environmental testing (TAGM) frequency for this source site had been reduced from one sample per 2,000 cubic yards to one sample per 10,000 cubic yards of cover layer material. The percolation testing frequency remained unchanged at one sample per 2,000 cubic yards.

On March 15, 2012, the NYSDEC found NYCDPR's proposed truck loading and mixing protocol acceptable to address elevated percolation rates for the stockpile #3 materials. On March 19, 2012, the IEM informed NYCDPR that stockpile #3 at the Ranco Sand source site had been approved for import as cover layer material based upon the acceptable environmental testing results and the percolation results in conjunction with the required mixing and truck loading protocol. The IEM witnessed the appropriate truck loading protocol of the first round of trucks at the source site on March 16, 2012. Trucks were loaded in an alternating pattern from both stockpile #2 and stockpile #3.

The IEM witnessed source site sampling at this source site on March 30, 2012. The IEM received a lab report on April 5, 2012 containing infiltration testing data for ten samples collected from stockpile #4. The IEM reviewed the infiltration testing data and confirmed that the results met the permeability requirement for cover soil.

The IEM received the environmental (TAGM) lab report on April 6, 2012 for the samples collected for stockpile #4 on March 30, 2012. On April 9, 2012, the IEM confirmed that sample results for stockpile #4 did not exceed any of the Permit criteria for cover material and the material was acceptable for import to the Site.

The IEM received the environmental (TAGM) lab report on May 9, 2012 for the samples collected for stockpile #5 on April 30, 2012. On May 10, 2012, the IEM confirmed that sample results for stockpile #5 did not exceed any of the Permit criteria for cover material and the material was acceptable for import to the Site. The IEM reviewed the infiltration testing data on May 17, 2012 and confirmed that the results met the permeability requirement for cover soil.

The IEM approved Ranco stockpile #5 on May 17, 2012, as the environmental testing results did not exceed any of the Permit criteria for cover layer material. The 20,000 cubic stockpile from Ranco that was tested and witnessed by the IEM met the Site Permit criteria and was acceptable for import to the Site. Infiltration testing was also approved by the IEM. The NYSDEC lowered the frequency of infiltration testing to one infiltration sample per 10,000 cubic yards for this source site on May 11, 2012. Through May 17, 2012, this source site was approved to export 78,000 cubic yards of cover material to the Site.

The IEM was on-site at this source site on June 8, 2012 to witness the collection of samples from stockpile #6. Two samples were collected for environmental and infiltration analysis for the approximate 20,000 cubic yard stockpile. The IEM received infiltration testing data on June 14, 2012. Infiltration test results were reviewed and approved on June 19, 2012. The IEM received environmental testing lab results on June 18, 2012. The environmental testing lab results were reviewed and approved on June 19, 2012. Stockpile #6 (20,000 CY) did not exceed any of the Site Permit criteria for cover layer material and infiltration requirements and was therefore acceptable for import to the Site.

The IEM was on-site at this source site on July 17, 2012 to witness sampling of stockpile #7 consisting of 10,000 cubic yards of cover layer material. On July 26, 2012, the IEM notified NYCDPR and LAWS that the material from stockpile #7 was acceptable for import to the Site based on the fact that the submitted environmental and infiltration lab reports met the Site Permit requirements.

The IEM reviewed the infiltration and environmental lab reports for stockpile #8 of cover layer material (10,000 cubic yards) sampled on August 14, 2012. The IEM notified NYCDPR on August 22, 2012 that the material was approved for import to the Site as both infiltration and environmental results were acceptable per the Site permit requirements.

On September 17, 2012, the IEM notified NYCDPR that the 10,000 cubic yard stockpile #9 of cover layer material sampled at this source site on September 7, 2012 was acceptable for import to the Site as both environmental and infiltration lab results met the Site Permit requirements.

On October 1, 2012, the IEM notified NYCDPR that the 10,000 cubic yard stockpile #10 of cover layer material sampled at this source site on September 21, 2012 was acceptable for import to the Site as both environmental and infiltration lab results met the Site Permit requirements.

On November 7, 2012, the IEM notified NYCDPR that the 10,000 cubic yard stockpile #11 of cover layer material sampled at this source site on October 17, 2012 was acceptable for import to the Site as both environmental and infiltration lab results met the Site Permit requirements.

On December 10, 2012, the IEM notified NYCDPR that the 10,000 cubic yard stockpile #12 of cover layer material sampled at this source site on November 16, 2012 was acceptable for import to the Site as both environmental and infiltration lab results met the Site Permit requirements.

IEM staff was on-site February 1, 2013 at this source site to perform the visual inspection and witness sampling of the cover soil for environmental and infiltration testing associated with stockpile #13 (10,000 cubic yards). The IEM witnessed collection of one environmental sample and one infiltration sample.

On February 19, 2013, the IEM notified NYCDPR that the latest round of cover layer material for this source site was acceptable for import to the Site based on the fact that both the environmental and infiltration results met the Site Permit requirements. The results were for sampling witnessed by the IEM on February 1, 2013 for stockpile #13.

The IEM witnessed sample collection for stockpiles #14 and #15 totaling 20,000 cubic yards worth of proposed cover layer material at this source site on March 19, 2013. Based on review of submitted lab results, the proposed cover layer material was approved for import to the Site as both infiltration and environmental results were acceptable per the Site Permit requirements.

On June 3, 2013, the IEM notified NYCDPR that the latest round of cover layer material for stockpiles #16 and #17 totaling approximately 20,000 cubic yards were acceptable for import to the Site as both infiltration and environmental results met the Site Permit requirements. Submitted infiltration and environmental lab reports were for sampling witnessed by the IEM on May 22, 2013.

On August 5, 2013, the IEM notified NYCDPR that the latest round of cover layer material for stockpile #18 (approximately 10,000 cubic yards) was acceptable for import to the Site. The submitted infiltration and environmental lab reports for sampling witnessed by the IEM on July 26, 2013 met the Site Permit requirements.

On August 29, 2013, the IEM notified NYCDPR that the latest stockpile of cover layer material for stockpile #19 (approximately 10,000 cubic yards), as represented by submitted infiltration and environmental lab reports, was acceptable for import to the Site. Both infiltration and environmental results met the Site Permit requirements for sampling witnessed by the IEM on August 21, 2013.

On September 13, 2013, the IEM notified NYCDPR that the latest stockpile of cover layer material for stockpile #20 (approximately 10,000 cubic yards), as represented by submitted infiltration and environmental lab reports, was acceptable for import to the Site. Both infiltration and environmental results met the Site Permit requirements for sampling witnessed by the IEM on September 6, 2013.

On October 3, 2013, the IEM notified NYCDPR that the latest stockpile of cover layer material for stockpile #21 (approximately 10,000 cubic yards), as represented by submitted infiltration and environmental lab reports, was acceptable for import to the Site. Both infiltration and environmental results met the Site Permit requirements for sampling witnessed by the IEM on September 25, 2013.

On October 28, 2013, the IEM notified NYCDPR that the latest stockpile of cover layer material for stockpile #22 (approximately 10,000 cubic yards), as represented by submitted infiltration and environmental lab reports, was acceptable for import to the Site. Both infiltration and environmental results met the Site Permit requirements for sampling witnessed by the IEM on October 16, 2013.

On November 8, 2013, the IEM notified NYCDPR that the latest cover layer material stockpile #23 (approximately 10,000 cubic yards), as represented by submitted infiltration and environmental lab reports, was acceptable for import to the Site. Both infiltration and environmental results met the Site Permit requirements for sampling witnessed by the IEM on October 25, 2013.

On November 18, 2013, the IEM notified NYCDPR that the latest cover layer material stockpile #24 (approximately 10,000 cubic yards), as represented by submitted infiltration and environmental lab reports, was acceptable for import to the Site. Both infiltration and environmental results met the Site Permit requirements for sampling witnessed by the IEM on November 8, 2013.

On March 14, 2014, the IEM notified LAWS and NYCDPR that the cover layer material stockpile #24, originally sampled and witnessed on November 8, 2013 was acceptable for importation. On March 14, 2014, the IEM completed a site visit and performed a visual inspection of the existing stockpile on-site.

3.1.2.2.1 Ranco Sand (115 South Street, Manorville, NY) [MFM]

On July 10, 2012, the IEM received lab results for a 10,000 cubic yard stockpile of cover layer material sampled at the Ranco Sand source site on July 2, 2012 for MFM. On July 11, 2012, the IEM confirmed that the environmental lab testing results did not exceed any of the Site Permit criteria for cover layer material environmental analyses however the stockpile could not be approved for import as infiltration test results were not reviewed and approved.

The NYSDEC approved the infiltration test results on August 21, 2012 for stockpiled cover layer material (10,000 cubic yards) sampled on July 2, 2012. Based on the NYSDEC approval of the infiltration results, the IEM notified NYCDPR on August 22, 2012 that the stockpiled material was approved for import to the Site as both infiltration and environmental results were acceptable per the Site Permit requirements.

3.1.2.2.2 Ranco Sand (115 South Street, Manorville, NY) [Triton]

On June 6, 2013, the IEM notified NYCDPR that the revised environmental lab report for a 5,000 cubic yard stockpile met the Site Permit requirements for IEM witnessed sampling completed on May 31, 2013. On June 7, 2013, the IEM notified NYCDPR that the infiltration testing results did not meet the Site Permit requirements.

On June 24, 2013, the IEM notified NYCDPR that the additional infiltration tests analyzed for a 5,000 cubic yard stockpile did not meet the Site Permit requirements for IEM witnessed sampling completed on May 31, 2013 and it was not approved for import to the Site. On June 24, 2013, NYCDPR notified the IEM that this material would not be sampled any further.

Approximately 271,801.2 cubic yards of cover layer material were imported to the Site from this source site based on approved materials noted above in Sections 3.1.2.2 and 3.1.2.2.1.

3.1.2.3 East Coast Mines (Lewis Road near Route 104, East Quogue, NY)

Between August 10 and August 12, 2011, NYCDPR and the IEM coordinated a site visit to the East Coast Mines source site (DEC Facility ID: 1-4736-00539), and discussed review requirements. The EDR was ordered by the IEM on August 12, 2011, and the initial EDR files were forwarded to NYCDPR.

The IEM visited the source site on August 17, 2011 to inspect two stockpiles each consisting of approximately 2,000 cubic yards of soil. The soil was inspected and visually appeared to be sand, free of any debris. The material appeared to be native as it was mined from roughly 80-100 feet below original grade. The stockpiles were inspected with a PID, which yielded no detections. The IEM witnessed the collection of a composite and discrete VOC sample from each stockpile, as well as a physical sample to be analyzed for permeability.

The IEM visited the site again on September 29, 2011 to inspect a separate stockpile of proposed cover layer material of approximately 2,000 cubic yards of soil. The soil was inspected and visually appeared to be sand and free of any debris. The material appeared to be native as it was mined from roughly 80-100 feet below original grade. The IEM witnessed the collection of a composite and discrete VOC sample from the stockpile, as well as a physical sample to be analyzed for permeability. The IEM logged the location of the perimeter of the stockpile via GPS. The source site owner and NYCDPR were aware that the stockpiles must remain untouched in order for them to be considered for approval. NYCDPR performed a review of the EDR. The IEM performed a review of NYCDPR's review submittal, as well as a review of the EDR. No RECs were identified. NYCDPR submitted the facility's NYSDEC mining permit to the IEM.

On October 11, 2011, the NYSDEC identified that they had reviewed the initial analytical data for the East Coast Mines source site and authorized the importation of two stockpiles of cover material totaling approximately 3,500 cubic yards. This approval was associated with cover material that was sampled on August 17, 2011. This material was approved for only stockpiling on-site, and had not been approved for spreading on-site. Cover material was stockpiled in the rough of holes 4 and 5 pending NYSDEC approval for spreading. The NYSDEC had not reviewed the September 29, 2011 analytical data resulting in a

maximum allowable import volume from this source site of 3,500 cubic yards. In general, the NYSDEC allowed up to 16,000 cubic yards of approved cover material (from all cover material source sites) to be stockpiled in the rough of holes 4 and 5 (8,000 cubic yards per hole) prior to satisfying the conditions associated with spreading the cover material on-site. These conditions included meeting permeability and shaping layer thickness requirements. On October 21, 2011, the NYSDEC provided NYCDPR with a conditional approval to allow NYCDPR to import cover layer material with a permeability of up to 30 inches per hour pending NYCDPR submitting for approval of an amendment to the Stormwater Pollution Prevention Plan (SWPPP). With this permeability approval, NYCDPR was notified that they could spread cover material on-site at their own risk pending shaping layer thickness compliance.

On April 18, 2012, NYCDPR requested that the IEM witness source site sampling for two 2,000 cubic yard stockpiles at this source site.

The IEM witnessed source site sampling at this source site on April 23, 2012. Four samples were collected for environmental testing and four samples were collected for agronomic testing. The IEM reviewed the environmental and infiltration testing data and confirmed that the environmental results met the Site Permit requirements for cover layer material and three of four stockpiles met the NYSDEC permeability requirements. The stockpile SP2 infiltration rate exceeded the Permit limit. Material from SP2 was not acceptable for import to the Site.

The East Coast Mines stockpiled material sampled on April 23, 2012 was formally approved by the NYSDEC on May 15, 2012. Although the environmental results passed the Site Permit criteria, one of the four stockpiles (each stockpile was 2,000 cubic yards) did not meet the Site Permit infiltration criteria. However, the NYSDEC, after a review of a NYCDPR submittal request, granted approval of the four stockpiles by allowing averaging of the four stockpile infiltration results; the average of the four stockpiles met the Site Permit criteria.

The IEM forwarded the Site environmental testing criteria per the Permit for cover layer material to the lab on July 2, 2012. On July 4, 2012, the IEM notified NYCDPR, the lab, and the source site contact of parameters that had to be re-analyzed or re-reported to coincide with the required Permit limits for potential cover layer material sampled on June 22, 2012. On July 5, 2012, the IEM reviewed the revised lab report for material sampled on June 22, 2012 and determined that the material (6,000 cubic yards) was acceptable for import to the Site. On July 10, 2012, the IEM received a lab report associated with a 10,000 cubic yard stockpile sampled on July 2, 2012. On July 10, 2012, the material was found to be acceptable for import to the Site based upon review of the submitted lab report and NYSDEC review and approval of the infiltration testing results. The NYSDEC approved the infiltration results based on the condition that the stockpiled materials were mixed at the source site prior to import to the Site.

The NYSDEC notified NYCDPR on July 18, 2012 that the proposed 1:3 ratio of mixing for cover layer material stockpiles #1, #3, and #6 at East Coast Mines source site was acceptable and subject to verification by the IEM. The IEM notified NYCDPR and the source site operator on July 18, 2012 that the submitted lab report was missing the analysis of dibenzofuran. NYCDPR and the source site operator

submitted revised lab reports on July 18, 2012. The IEM notified NYCDPR and the source site operator that the two separate stockpiles of material (8,000 cubic yards each) sampled at the East Coast Mines source site on July 11, 2012 were conditionally acceptable for import based upon proper mixing of the stockpiles. The IEM was on-site at the East Coast Mines source site to witness sampling of a new 10,000 cubic yard stockpile and the mixing of the cover soil stockpiles on July 23, 2012. The IEM notified NYCDPR and the source site operator that the sampled materials were acceptable for import to the Site on July 24, 2012.

The IEM was on-site at the East Coast Mines source site on July 31, 2012 to witness mixing of cover layer material stockpiles. On August 6, 2012, the IEM notified NYCDPR that the cover layer materials sampled on July 23, 2012 at the East Coast Mines source site, totaling 14,000 cubic yards, were acceptable for import to the Site based on review of submitted environmental and infiltration lab reports.

On August 20, 2012, the IEM notified NYCDPR that the 8,000 cubic yard stockpile of cover layer material sampled on July 31, 2012 was approved for import to the Site. The approval was based on the submitted environmental results meeting the Site Permit requirements, approval from the NYSDEC to mix and average the infiltration test results, and the mixing of the stockpiled material at the source site which was witnessed by the IEM on August 14, 2012.

On August 30, 2012, the IEM notified NYCDPR that the 12,000 cubic yards of cover layer material sampled on August 14, 2012 was approved for import to the Site. The approval was based on the submitted environmental results meeting the Site Permit requirements, approval from the NYSDEC to mix and average the infiltration test results (August 23, 2012 email), and the mixing of the stockpiled material at the source site which was witnessed by the IEM on September 4, 2012.

On September 12, 2012, the IEM notified NYCDPR that a portion of the 14,000 cubic yards of cover layer material sampled on September 4, 2012 was approved for import to the Site. Stockpile SW consisting of 6,000 cubic yards of cover layer material was approved based on the submitted environmental results meeting the Site Permit requirements and acceptable infiltration results. Stockpile DSS consisting of 8,000 cubic yards had acceptable environmental results meeting the Site Permit requirements but was not approved due to infiltration results not meeting the Permit requirements. On September 14, 2012, the IEM notified NYCDPR that Stockpile DSS consisting of 8,000 cubic yards of cover layer material was approved for import to the Site since the IEM witnessed thorough mixing of the stockpiled material at the source site on the morning of September 14, 2012.

On September 20, 2012, the IEM notified NYCDPR that a portion of the 14,000 cubic yards of cover layer material sampled on September 14, 2012 was approved for import to the Site. Stockpile FFS consisting of 6,000 cubic yards of cover layer material was approved was based on the submitted environmental results meeting the Site Permit requirements and acceptable infiltration results. Stockpile NW consisting of 8,000 cubic yards had acceptable environmental results meeting the Site Permit requirements but was not approved due to infiltration results not meeting the Permit requirements. On September 21, 2012, the IEM notified NYCDPR that Stockpile NW consisting of 8,000 cubic yards of cover layer material was

approved for import to the Site since the IEM witnessed thorough mixing of the stockpiled material at the source site on the morning of September 21, 2012.

On September 28, 2012, the IEM notified NYCDPR that a portion of the 12,000 cubic yards of cover layer material sampled on September 21, 2012 was approved for import to the Site. Stockpile SW consisting of 2,000 cubic yards of cover layer material was approved based on the submitted environmental results meeting the Site Permit requirements and acceptable infiltration results. Stockpile DSS consisting of 10,000 cubic yards had acceptable environmental results meeting the Site Permit requirements but was not approved due to infiltration results not meeting the Permit requirements. On October 2, 2012, the IEM notified NYCDPR that Stockpile DSS consisting of 10,000 cubic yards of cover layer material was approved for import to the Site since the IEM witnessed thorough mixing of the stockpiled material at the source site on the morning of October 2, 2012.

On October 8, 2012, the IEM notified NYCDPR that all of the 16,000 cubic yards of cover layer material sampled on October 2, 2012 was approved for import to the Site. Stockpile SW consisting of 6,000 cubic yards of cover layer material was approved based on the submitted environmental results meeting the Site Permit requirements and acceptable infiltration results. Stockpile NW consisting of 10,000 cubic yards which had acceptable environmental results meeting the Site Permit requirements was approved based on the fact that the average of the infiltration test results met the Permit requirements and the IEM witnessed thorough mixing of the stockpiled material at the source site on the morning of October 9, 2012.

On October 18, 2012, the IEM notified NYCDPR that all of the 16,000 cubic yards of cover layer material sampled on October 9, 2012 was approved for import to the Site. The stockpiled cover layer material was approved was based on the submitted environmental results meeting the Site Permit requirements and acceptable infiltration results.

On November 7, 2012, the IEM notified NYCDPR that all of the 16,000 cubic yards of cover layer material sampled on October 24, 2012 was approved for import to the Site. Stockpile SW consisting of 6,000 cubic yards of cover layer material and Stockpile NW consisting of 10,000 cubic yards of cover layer material were approved based on the submitted environmental results meeting the Site Permit requirements and acceptable infiltration results.

On May 8, 2013, the IEM inspected previously tested and approved cover layer material (sampled October 24, 2012) at the source site and notified NYCDPR that import may resume for the previously approved material.

On July 25, 2013, the IEM notified NYCDPR that the latest round of East Coast Mines cover layer material (approximately 8,000 cubic yards) was acceptable for import to the Site. The submitted infiltration and environmental lab reports for sampling witnessed by the IEM on July 19, 2013 met the Site Permit requirements.

Approximately 167,007.05 cubic yards of cover layer material were imported to the Site from this source site.

3.1.2.4 Amboy Aggregates (415 Main Street, South Amboy, NJ)

The IEM reviewed the infiltration and environmental lab reports for cover layer material (2,000 cubic yards) sampled on August 27, 2012. The IEM notified NYCDPR on September 6, 2012 that the environmental results were acceptable per the Site Permit requirements, however the infiltration results did not pass the Permit requirements for cover layer material. The IEM's involvement on this source site was limited to witnessing the collection of the soil samples for testing and a review of the lab results.

No further action was reported associated with this potential source site and no material was imported to the Site from this source site after October 25, 2010.

3.1.2.5 Long Island Compost/Great Gardens (445 Horseblock Road, Yaphank, NY)

On November 16, 2012, the IEM notified NYCDPR and LAWS that the Long Island Compost/Great Gardens source site (DEC Permit Number: 1-4722-03647/00001) was conditionally approved to allow for the import of topsoil to be used as cover layer material pending IEM visual inspection and witnessing the collection of soil samples of the proposed material at the source site.

On December 7, 2012, the IEM notified NYCDPR that the 2,000 cubic yard stockpile of cover layer material sampled at this source site on November 30, 2012 was acceptable for import to the Site as both environmental lab results and visual inspection met the Site Permit requirements. The NYSDEC waived infiltration testing requirements for this material as long as the material was used solely in tree pits.

The IEM witnessed sample collection for a 2,000 cubic yard stockpile of proposed cover layer material at this source site on March 20, 2013. On March 28, 2013, the IEM notified NYCDPR and LAWS that the submitted sample results did not pass the Site Permit criteria due to the fact that Benzo(a)pyrene exceeded the permit limit of .061 mg/kg in sample 49369 with a value of .097 mg/kg and Chromium exceeded the permit limit of 19.4 mg/kg in sample 49369 with a value of 22.9 mg/kg. The material was not approved for import to the Site as cover layer material at that time.

On April 9, 2013, the IEM notified NYCDPR and LAWS that the submitted sample results for a 2,000 cubic yard stockpile of proposed cover layer material at this source site (sampled on March 20, 2013) did not pass the Site Permit criteria due to the fact that Benzo(a)pyrene exceeded the permit limit of .061 mg/kg in sample 49369 with a value of .097 mg/kg. The revised lab report dated April 8, 2013 addressed concerns with the analysis of trivalent and hexavalent chromium (the previous lab report had only analyzed total chromium). On April 10, 2013, the NYSDEC notified NYCDPR that after further review of the revised lab results, the 2,000 cubic yards of material was acceptable for import to the Site.

On April 29, 2013, the IEM notified NYCDPR and LAWS that the submitted sample results for a 2,000 cubic yard stockpile of proposed cover layer material at this source site (sampled on April 19, 2013) did not pass the Site Permit criteria due to the fact that Benzo(a)pyrene exceeded the permit limit of 0.061 mg/kg with

a value of 0.140 mg/kg and Dibenzo(a,h)anthracene exceeded the permit limit of 0.014 mg/kg with a value of 0.020 mg/kg. On May 1, 2013, NYCDPR requested approval to use the material as backfill for the tree pits only. On May 1, 2013, the NYSDEC notified NYCDPR that the 2,000 cubic yards of material was acceptable for import to the Site.

On May 14, 2013, the IEM notified NYCDPR and Triton that the submitted environmental and infiltration sample results for 2,000 cubic yards of proposed cover layer material at this source site (witnessed by the IEM and sampled on April 30, 2013) was acceptable for import to the Site as both environmental and infiltration results met the Site Permit requirements.

On October 28, 2013, the IEM notified NYCDPR that that a review was completed for a 2,000 cubic yard stockpile of proposed cover layer material from this source site. The proposed material was visually inspected and sampling was witnessed by the IEM on October 16, 2013. Although the material passed the IEM's physical/visual inspections and did not yield any PID detections, the sampled material did not comply with Site Permit criteria for the following parameters: Benzo(a)pyrene exceeded the permit limit of 0.061 mg/kg in sample GBF65277 with a value of 0.150 mg/kg; Dibenzo(a,h)anthracene exceeded the permit limit of 0.014 mg/kg in sample GBF65277with a value of 0.024 mg/kg; and Dieldrin exceeded the permit limit of 0.044 mg/kg in sample GBF65277 with a value of 0.100 mg/kg. On October 29, 2013, NYCDPR submitted additional documentation to the NYSDEC for evaluation. Based on review of submitted information, the NYSDEC notified NYCDPR on October 29, 2013 that this material may be imported to Site and used solely for backfilling the parking lot curb planters and shall not be used as capping material.

On March 11, 2014, the IEM notified LAWS and NYCDPR that the 2,000 cubic yard stockpile of cover layer material originally sampled and witnessed on October 16, 2013 was acceptable for importation. On March 11, 2014, the IEM completed a site visit and performed a visual inspection of the existing stockpile at the source site.

Approximately 8,434.85 cubic yards of cover layer material were imported to the Site from this source site.

3.2 On-Site Fill Importation Inspections

3.2.1 Process

As required under Special Condition 24 of the 2014 Permit, all fill importation was inspected at the Site by the IEM. Fill material volume (truck volume) was measured and recorded for each delivery of fill material as it arrived on-site by NYCDPR's appointed representative. The fill material was then inspected by the IEM at the observation platform near the entrance to the Site. At this time, the fill material was visually and chemically inspected. The visual inspection included observations of the material, disturbing the material with a shovel, and close-up observations of the material retrieved by shovel while still in the truck or trailer. Chemical inspection of the fill material was executed using a calibrated PID. If the fill material failed to meet the Permit requirements for reasons such as a PID reading above ambient air, the presence of asphalt or some other unauthorized debris, etc., the load was rejected immediately prior to

dumping. If the material was rejected, the truck was not allowed to dump on-site and was directed to exit the site immediately.

If the fill material passed the initial inspection at the IEM observation platform, either it was allowed to dump directly at a work location for immediate use as shaping layer material or cover layer material or it was transported to, and dumped at, a stockpile location. At the dump location, the IEM screened the fill material visually and with a PID for a second time prior to spreading if dumped at an active work location. If the fill material did not meet the permit requirements at the dump location, it was immediately rejected, loaded back onto the same truck, and transported off-site.

After the second round of inspection and after the material was dumped on-site and accepted for use, the IEM recorded dump and stockpile locations utilizing handheld GPS units. The data was uploaded to a web-based GIS system intermittently throughout the process in order to provide real-time data to authorize users including the NYSDEC and NYCDPR and to generate figures used to track the dump locations in the biweekly FMRs. The web-based GIS database was maintained by the IEM. Figure 2, included in each FMR beginning with FMR 246, identifies where fill materials were being used and dumped on the Site during construction activities.

A flow chart detailing the on-site fill importation inspection process is included as Appendix 21.

3.2.2 Trucking Manifests

Trucking manifests were utilized for all imported shaping layer and cover layer materials. A 5-ply manifest form was completed for each load of material to track each load of material from origination at the source site to destination at the Site. The manifest contained information including but not limited to a manifest number, the source site name and address, the truck driver's name, truck and trailer license plate numbers, as well as the time of departure from the source site and arrival time at the Site. See fill import manifests included in Appendix 13.

Note that manifests for material approved for importation prior to November 2008 cannot be retrieved and are not included in Appendix 13. The manifest information was stored in a NYCDPR document repository that was damaged by flooding and the files have been lost. However, the FMRs for the time period prior to 2008 comment on the nature of this work.

3.2.3 Rejected Trucks & Materials (JFK Consent Order Material & Misc. Debris)

Generally, materials were either rejected upon initial inspection at the IEM observation platform or rejected upon dumping at the work area or stockpile location. The most common reasons for rejection were the presence of asphalt or other unauthorized debris mixed with the material or elevated PID readings.

Details for all rejected trucks were included in each bi-weekly Fill Management Report (FMR). Trucking manifests associated with rejected truckloads were marked with the word "REJECTED" by the IEM. Trucking manifests for rejected trucks are included as Appendix 13.

During 2010, fill material from one particular source at JFK Airport was brought on-site and placed in seven different stockpiles ultimately being used as fill material beneath the clubhouse and maintenance building parking lots. The material was believed to be in conformance with permit conditions. However, the material was found to be in violation of 2005 Permit Special Conditions 1, 9, and 16, during NYSDEC and IEM inspections. On January 10, 2011, NYCDPR signed an Administrative Order on Consent (Consent Order), Case No. R2-20100521-172, related to this fill material. The Consent Order is included as Appendix I, of the 2013 Engineering Report included in Appendix 20.

3.3 Fill Tracking

Special Condition 9 of the 2014 Permit required quantification of all imported fill material. Fill importation was continuously tracked by the IEM. To account for the difference in truck volume and in-place volume, the IEM applied a 41.7% correction factor for shaping layer material and an 18% correction factor for cover layer material as set forth in the Permit. Additional details and methodology related to calculation of the shaping layer correction factor is included in a December 11, 2009 letter included in Appendix 19.

The cover layer material correction factor was separated from the shaping layer correction factor and revised in accordance with a NYCDPR submittal dated April 1, 2013 and revised April 8, 2013. The methodology for calculating the cover layer material correction factor is included in the revised April 8, 2013 submittal, which is included in Appendix 19.

As shaping layer and cover layer fill materials were imported to the Site, the IEM tracked volumes for each source site with respect to authorized volume based on approved sample analysis results for each source at the required sampling frequency (i.e. per 10,000 cubic yards for shaping layer material and per 2,000 cubic yards for cover layer material as included in Special Condition 14 of the 2014 Permit). The volume of imported material was tracked real-time as the IEM uploaded source, truck, and fill material volume information as each load of material was dumped on the Site. The fill tracking process, as part of the overall environmental monitoring and database management web-GIS system developed by the IEM and utilized beginning on October 25, 2010, was awarded a New York Chapter American Council of Engineering Companies (ACEC) Platinum Award in April of 2013. The web-GIS system allowed the IEM to upload and store data related to each load of fill material entering the Site, map its location, and allow real-time access to the data and mapping for NYCDPR, NYSDEC, the Contractor, and the general public.

At various times throughout fill importation activities, source site, shaping layer, or cover layer material totals were modified for various reasons. Additional details related to corrections and modifications can be found in Section 4 of corresponding Fill Management Reports, notably FMRs 213, 266, 277, 290, and 305.

Effective with FMR 290 and retroactive to October 25, 2010 (i.e. Woodard & Curran's first day as the IEM on-site at the Site), shaping layer and cover layer material volumes were tracked based upon the calculated volumes within each truck, as calculated by TRC and provided to the IEM (i.e. Tables 4-2 and 4-3 of each FMR). This provided for the most accurate and consistent approach to monitoring the volume

of imported fill materials. Prior to receipt of the calculated volumes from TRC, the IEM tracked estimated volumes as trucks dumped on the Site.

The Fill Delivery Summary Table included in Appendix 11 contains information related to the total amount of shaping layer and cover layer materials imported to the Site. The total volume of shaping layer material imported to the Site since October 18, 2002 was 2,681,338.15 cubic yards (truck volume) or approximately 93.4% of the authorized amount under the Permit. The total volume of cover layer material imported to the Site since October 18, 2002 was 480,959.49 cubic yards (truck volume) or 100.1% of the authorized amount under the Permit.

On April, 17, 2014, the NYSDEC confirmed via email that a minor exceedance of the cover layer in-place volume as included in the Permit is acceptable considering no additional shaping material will need to be imported and that the exceedance could be addressed via as-built drawings and in the final construction certification report. A copy of the email is included in Appendix 19.

The Bronx-Whitestone Bridge bound the "Site" to the west, Balcom, Miles, and Emerson Avenues to the east, Schley Avenue and St. Raymond's Cemetery to the north, and the East River to the south. The project was originally managed under Ferry Point Partners, LLC (FPP).
On July 17, 2000 the New York State Department of Environmental Conservation (NYSDEC) issued Part 360, Solid Waste Management Permit No. 2-6006-00014-000110 jointly to the New York City Department of Parks and Recreation (NYCDPR) and FPP to allow a total of 1,000,000 cubic yards of fill to be imported and placed on the Site. Importation began in August 2000.

On October 18, 2002 the NYSDEC issued Part 360, Solid Waste Management Permit No. 2-6006-00014-000113 (2002 Permit) to allow a total of 1,522,300 cubic yards of fill to be imported and placed on the Site. The fill material was to consist of approximately 1,272,300 cubic yards of select exempt construction and demolition debris for the shaping layer, and approximately 250,000 cubic yards of uncontaminated soil for the cover layer. The 2002 Permit also stated that, "approximately 415,000 cubic yards of fill was deposited on the Site prior to the effective date of the permit and the projection for in-place fill material to complete the project was 1,107,300 cubic yards, consisting of approximately 857,300 cubic yards (in-place volume) of select exempt construction debris for the shaping layer and approximately 250,000 cubic yards (in-place volume) of uncontaminated soil for the cover layer.

In 2003, it was determined that the tournament quality and signature status of the course could be significantly improved by making the facility a "links" style course. The changes from the 2002 Permit include:

- Increasing the support mounding between golf holes and grading the course in a links style.
- Re-routing of holes 11, 12 and 13 to reverse their direction in order to improve player circulation and playing time.
- Moving Hole 9 to the west of the golf driving range in order to improve

the safety zone of the driving range and remove the need for high netting.

- Realigning the centerlines of holes: 10, 16, 17 and 18 to improve the strategic layout and visual experience of the golf course.
- Lowering the elevations of tee 4 and 6. This will eliminate the retaining wall proposed at the northeast comer of the Site.
- Adding a golf training area at the north end of the driving range. This required shifting the centerline of Hole 8 slightly north and increasing the support mounding around this area to buffer the adjacent holes.
- Increasing the mounding adjacent to the TBTA toll plaza in order to block noise and adjacent traffic from view.
- Shifting the Site roadway along the east side of the bridge to accommodate a TBTA easement that extends 25 feet east of the bridge. This required changes to the parking lot at the clubhouse and the location of detention/water quality basin, and waterfront park.
- Eliminating the Boathouse Grill restaurant in the Waterfront Park. A restaurant will now be located within the banquet facility. Parking spaces for the banquet facility were increased to accommodate the restaurant. A restaurant may be constructed within the waterfront park in a future phase, based on economic demands.
- Modifying the parking lot for the Waterfront Park. The 120 parking' spaces for the Waterfront Park will be located near the Whitestone Bridge approach structure.

These proposed changes to the golf course would have increased the total in-place fill volume for the project to 2,370,000 cubic yards to shape the course in a links style.

The quantification of the imported fill material was to be continuously tracked by both truck volume and periodic topographic surveys of in-place volumes. Initially it was assumed that truck volume would be reduced by 25% when compacted into place, but a new correction factor was to be calculated. On November 1, 2004, the NYSDEC approved a revised truck reduction factor of 42.4%, which was based upon an October 10, 2003 30% aerial topographic survey, and On December 7, 2004, the NYSDEC approved a revised truck reduction factor of 41%, which was based upon a July 17, 2004 60% aerial topographic survey. These recalculations were performed by dividing the actual in-place volume by the total cubic yards of truck volume delivered to the site as of the date of the survey as per the “2002 Permit

TRC Raymond Keyes Associates, A Division of TRC Engineers, Inc. prepared an, “Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY – Engineering Report; Dated May 31, 2005; Revised June 30, 2005” which comprised of Volume #1, Volume #2 and a twenty six (26) sheet drawing set entitled, “Ferry Point Park Public Recreational Facility Bulk Earthwork, Bronx, New York, Supplement No. 2” (2005 Report) . The 2005 Report represented the following scope of work:

- An eighteen (18) hole golf course with practice area.
- Maintenance Area in the northwest corner of the Site.
- Clubhouse Parking Lot in the southwest portion of the Site.
- Banquet Facility in the southwest portion of the site (along Emerson Avenue)
- Community Park
- Waterfront Park with parking lot.
- Drawing G-3 and G-4 of "Ferry Point Park Public Recreational Facility Bulk Earthwork, Bronx, New York, Supplement No. 2", showed the deviations in grading between the plans approved on 10/18/02 with the proposed plan.

On November 18, 2005 the NYSDEC issued Part 360, Solid Waste Management Permit No. 2-6006-00014-000113 ("2005 Permit") authorizing the importation of a total of 2,370,000 cubic yards of in-place fill material to the Site. The fill material was to consist of approximately 2,120,000 cubic yards of select exempt construction and demolition debris for the shaping layer, and approximately 250,000 cubic yards of uncontaminated soil for the cover layer. The truck reduction factor was 41% and could be further modified.

In 2007, TRC Engineers, Inc. ("TRC") was awarded a one (1) year contract to provide "Civil, Environmental and Construction Services for Compliance with DEC permit Related to the Construction of a Golf Course at Ferry Point Park". The order to work date for that contract was October 25, 2007. The scheduled completion date was October 23, 2008. The contract was extended an additional year to October 24, 2009. On October 26, 2009, "TRC" issued a "Year 2 End Project Summary" and estimated that approximately 202,000 total cubic yards of material was imported to the Site by October 22, 2007.

On October 26, 2007, the NYCDPR and FPP terminated the license agreement to develop, construct and operate the Project at the site and on February 29, 2008 FPP submitted an application to transfer the "2005 Permit" solely to the NYCDPR. On August 12, 2008, the NYSDEC notified the NYCDPR and FPP that the "2005 Permit" had been transferred to the NYCDPR.

The order to work date for construction of the Community Park was August 11, 2008. Fill importation continued as witnessed by the Independent Environmental Monitor (Gannett Fleming). On September 30, 2009, Thomas Balsley Associates, NYCDPR design consultant issued a revised drawing changing the limit of the Community Park. The new Site was reduced in size by moving the fence line in the south further north and by moving the fence along the proposed golf course closer to Balcom Avenue.

On January 22, 2009, in accordance with Special Condition #10 of the "2005 Permit", TRC Engineers, Inc. (TRC) submitted a revised truck reduction factor of 40.3%. On February 11, 2010, NYSDEC approved a truck reduction factor of 41.7%.

The order to work date for construction of the Ferry Point Golf Course was October 23, 2009. The golf course layout that the NYCDPR bid was modified from that which shown in the 2005 Report. One major

change was the total removal of the Banquet Facility in the southeast part of the Site. There were also changes in the placement, alignment and grading of some holes.

On February 1, 2013, the NYSDEC granted a permit modification to increase the limit of cover material to 394,000 cubic yards with the stipulation that the Agency revisit the compaction factor. It was determined that the compaction factor for the granular cover material (sand) would be 18%. This would revise the "trucked in" quantity to 480,488 cubic yards. The compaction factor for cover layer material approved per April 26, 2013 letter from NYSDEC to DPR.

On May 21, 2014, the NYSDEC issued Part 360, Solid Waste Management Permit No. 2-6006-00014-00013 (SW) & 2-6006-00014-00013 (TW) to the NYCDPR to allow a total of 2,514,000 cubic yards of material in-place volume (2,120,000 cubic yards in-place shaping material/394,000 cubic yards in-place cover material).

3.4 Total Carcinogenic Semi-Volatile Organic Compound Tracking

As identified in Special Condition 14 of the 2014 Permit, the NYSDEC Acting Regional Director letter dated October 25, 2006, authorized the import of shaping material with a total carcinogenic SVOC (tcSVOC) level of up to ten parts per million (ppm), which would not otherwise be acceptable, provided the tcSVOC weighted average of all imported material is equal to or less than 3 ppm at the end of each quarter. The tcSVOC weighted average is defined as the sum of the products of the material volume and the material tcSVOC, for each material source, divided by the total volume of the material imported. The weighted average was calculated over the course of construction and the final weighted average for shaping layer and cover layer materials imported to the Site was 0.70 ppm, less than the 3 ppm maximum. The total carcinogenic SVOC weighted average table and computations are included in Appendix 12 for materials imported to the Site after November 18, 2005.

SVOCs were not sampled for at the East Side Access and 2nd Avenue (94th Street) source sites due to the source being undisturbed, virgin rock material generated from subway tunnel boring. NYSDEC email correspondence dated April 15, 2011 stated that the IEM should apply one-half of the method detection limit (MDL) from the latest lab report sampled at that time for materials originating from those two source sites.

4 Construction

4.1 General Construction

4.1.1 Community Park

Construction of the Community Park consisted with capping the 11 acre site, installing baseball fields, a basketball court, walkways, a comfort station, and a landscaped stormwater retention area. Construction started on August 11, 2008. As of December 31, 2011, the stormwater retention pond, passive landfill gas (LFG) vents, and recreation facilities were considered complete. The Order to Work date for the comfort

station was March 19, 2014. The original scheduled completion date was September 15, 2014. The anticipated completion date is currently the Fall of 2015.

4.1.2 Golf Course

Generally, construction for the Golf Course was completed from the northeast to the southwest. The sequence of construction started by grading, rough shaping and compacting each hole, installing major drainage lines and inlet drains, installing irrigation lines and fine shaping the holes, installing branch drainage lines, constructing the greens and tees, installing demarcation material, grading cover material, fine grading cover material, and final stabilization by hydro-seeding. Each hole was constructed individually and then turned over to Trump, who is contracted with NYCDPR to maintain and operate the grounds and golf course, for care and maintenance during the grown-in period and prior to course operations.

LAWS completed construction work, including punch list items associated with their construction contract, and demobilized from the site in July 2014. Trump has and continues to perform various earth disturbance related work on the Site, in addition to standard maintenance of the Site. All permit related activity, including earthwork, general construction, and fill deliveries have been coordinated with the IEM, and the IEM has witnessed the work activity and documented inspection observations in the Daily Observation Reports. Specifically, IEM oversight related to Trump's on-site activity includes, but is not limited to, the replacement and relocation of trees, construction of a clock tower and associated subsurface concrete footing, excavation of trenches and installation of utilities to support various on-site facilities including the temporary clubhouse, installation of a cart barn, re-grading of an existing shaping and cover layer earthen berm and subsequent installation of concrete block letters at the surface, and installation of asphalt. For a detailed description of Trump's work activities requiring IEM oversight subject to the Permit conditions, refer to the Daily Observation Reports located in Appendix 5 beginning on June 19, 2014.

4.1.3 Waterfront Park

Special Condition 37 of the 2014 Permit requires that NYCDPR submit a revised design for the Waterfront Park and provides NYCDPR the flexibility to remove the Waterfront Park from the NYSDEC Part 360 Permit and permit the project under a separate NYSDEC tidal wetlands permit. The Waterfront Park is currently in the process of being conceptually scaled back in magnitude due to the impacts of Hurricanes Irene and Sandy, and design plans are being value engineered and developed. NYCDPR intends to submit plans to the NYSDEC upon completion of an approved design, and handling the construction via a separate NYSDEC tidal wetlands permit. Any SEQR related documents will be updated accordingly. The final end use of the Waterfront Park is anticipated to be publically accessible and consists of a passive recreational feature. NYCDPR will not be performing post-construction monitoring in this area of the Site until construction is completed and approved, and will restrict public access until such time.

4.2 Environmental Controls/Construction

4.2.1 Wells (Landfill gas, groundwater and water balance analysis)

NYSDEC requested NYCDPR on August 6, 2010 to demonstrate that soil being used for final cover material (not specifically the uppermost layer) would have a sufficiently low coefficient of permeability and percentage of organic material to minimize infiltration of water into the lower layer of fill material. These comments were submitted as additional comments to the November 25, 2009 permit application submittal.

NYCDPR performed a site-wide water balance evaluation to predict post-construction infiltration rates. EPA's Hydrologic Evaluation of Landfill Performance (HELP) model was used for this evaluation. The results were presented to NYSDEC on May 13, 2011 as well as incorporated in Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East, Bronx New York October 15, 2013. The model used criteria including a typical one-foot thick soil landfill cover with the proposed soil cover material as designed for the facility. The model also accounted for impermeable areas of the site, irrigation of the golf course, drainage system stormwater capture and the lining of ponds.

The soil cover permeability of 14 inches per hour was used for the overall site model. Using this infiltration rate the overall volume of water penetrating the site would be lowered by approximately 9,700 gallons per day. A subsequent water balance analysis was submitted to NYSDEC on August 10, 2011 presenting infiltration rates with a soil permeability of 30 inches per hour that also lowered the overall volume of water infiltrating the site following completion of construction. Discussion and request for confirmation that the site drainage was adequate for a 30 inch per hour permeability took place and the final maximum permeability of 30 inches per hour was approved by NYSDEC for cover material. Cover material imported to the site was tested subsequent to this approval to insure it was able to meet the goal for material permeability. More specifically, testing was combined from individual stockpiles and sources and the average from those was used to determine acceptability of material. Individual variability in sample results was expected because loading, unloading, stockpiling and spreading over the site was recognized as providing a homogeneous layer over the site. Samples were collected at a frequency of one per 2,000 cubic yards moving forward from January 26, 2012 until importation of material was completed.

Additional impacts on water balance came from lined irrigation and retention ponds. There is one large irrigation pond located on the course and several small retention ponds located throughout the open course. The irrigation pond's purpose is to collect storm runoff during storm events and stor it to be utilized for irrigation of the upper cover layer during non-storm periods. The grading and drainage for the stormwater collection and retention were provided in the November 25, 2009 permit application. NYSDEC requested that infiltration beyond the upper layer of cover material be minimized to the maximum extent possible on August 6, 2010 and this included lining each of the five on-site retention ponds to limit infiltration as much as could be done.

The subsequent changes to cover permeability and the lining of irrigation and retention ponds required a review of the Stormwater Pollution Prevention Plan (SWPPP) in order to confirm the additional flow would

not exceed the design criteria for the storm system. The engineering review conducted at that time (October 18, 2011) confirmed the stormwater system design was adequate to carry this flow.

NYSDEC granted a conditional approval for the Ferry Point Site to accept a 30 in. percolation rate per hour cover material on October 21, 2011. The conditional approval was based on a request for DPR to "submit for approval an amendment to the Stormwater Pollution Prevention Plan (SWPPP) dated November 13, 2009, with plans and computations that reflect the partial lining of the stormwater basins." DPR provided this in a technical memorandum to NYSDEC on November 16, 2011. The memorandum presented a formal submittal of the pond liner design to NYSDEC and included excerpts of calculations from the November 13, 2009, SWPPP. An approval was provided by NYSDEC on December 2, 2011.

Municipal solid waste (MSW) filling operations ceased at the Site in the 1960s, prior to the implementation of the comprehensive environmental regulations now in place, and a formal groundwater sampling program was not required at that time. Information on groundwater quality at a former landfill site such as Ferry Point Park East can be used to help evaluate existing groundwater conditions. For the 2005 Permit application, the Site's history was reviewed and a geotechnical investigation was performed to evaluate the potential for adverse impacts on the Site's groundwater due to the placement of fill during construction of the golf course and parks.

A summary provided in the 2005 Engineering Report concluded "that the placement of fill would not have an adverse impact on pre-development groundwater conditions at the site and that the proposed golf course construction would not result in an increased flow of contamination into the river through groundwater flow." (TRC 2005a).

In their comments of June 25, 2010, NYSDEC asked DPR whether any new information was available regarding groundwater conditions at the Site, and if any new, relevant information was available, to verify the conclusions of the geotechnical portion of the 2005 Engineering Report (TRC 2005a).
Following several discussions with DPR, and because no prior sampling had been required, NYSDEC requested that DPR undertake a groundwater sampling program and develop a reference point for background water quality conditions at the Site.

To comply with this request, DPR prepared written field procedures for new well installations, well development, and groundwater sampling (see Appendix G.1).
The field procedures were submitted to, and approved by, NYSDEC prior to the start of the work effort. Prior to installation, the locations of the monitoring wells were approved by NYSDEC during a meeting held with DPR on September 22, 2011.

Landfill gas monitoring over the entire Site has incorporated various different types and configurations of monitoring points. These include perimeter and interior wells and vents that have been monitored over time on a regular frequency. Monitoring has been recorded and reported according to Special Conditions Monitoring as referenced in the March 2014 permit and results dictate continued additional monitoring when that has been necessary. This monitoring continues under the Post Closure Monitoring

requirements and in accordance with the Landfill Gas Management Plan. A total of thirty seven passive vents were installed throughout the Golf Course and Community Park on an average spacing of approximately one vent for every five acres. These vents are considered passive and allow the natural venting of subsurface gases to take place without any additional vacuum or fans. Additional active vapor removal does take place at each of the constructed buildings on the site. This includes the comfort station and maintenance shed on the Golf Course and comfort station at the Community Park. Active systems operate at both of these locations on a continual basis and vent the subsurface area beneath the associated slabs to the atmosphere. There are no structures planned for or constructed on the Waterfront Park parcel at this time.

Passive gas vents are installed throughout the golf course and are included along the perimeter within the venting trenches, within the overall golf course as individual stand-alone vents and in combined systems of interconnected piping to carry landfill gas from beneath irrigation ponds.
Landfill gas monitoring includes perimeter probes located along an approximate 250 linear ft. interval on the north, east and southern site boundaries; off-site monitoring points along Buttrick, Balcom, Schley, Miles and Emerson Avenues; a passive vent trench installed along the eastern and northern perimeters of the course with piezometers installed along the vent trench to allow for monitoring of the groundwater levels associated with the vent trenches; individual passive vents within the golf course and community park space; a passive vent system of interconnected piping serving the irrigation pond; and sub-slab depressurization systems beneath the enclosed buildings located within the golf course and community park.

In February 2012, eleven new groundwater monitoring wells were installed across the Site to obtain information on current groundwater conditions. Design documents for the groundwater monitoring wells are included in Appendix G.2 of the 2013 Engineering Report, included in Appendix 20. An initial sampling event was completed in February 2012 and included the testing activities described below.

■ Groundwater Elevation Measurements: Water depths were measured at the 11 groundwater monitoring wells. Two measurements were taken from each well within one hour each of high and low tides, starting at the shoreline and moving inland.
■ Elutriate Testing: One soil core sample per well was collected during well installation in order to perform elutriate analysis. Samples were selected from shaping material zones based on visual observation of the soil cores.
■ Groundwater Testing: Groundwater samples were collected at each of the 11 wells and shipped for laboratory analysis in accordance with the required testing as referenced in the 2002 permit.
■ Hydraulic Conductivity Testing: In situ slug testing for hydraulic conductivity was completed at each of the 11 groundwater monitoring wells.

The initial groundwater monitoring data from February 2012 was submitted to NYSDEC by email on March 28, 2012. This data is included in the report for the initial groundwater monitoring event (see Appendix G.5 of the 2013 Engineering Report, included in Appendix 20). At that time, DPR requested direction from

NYSDEC concerning procedures for future sampling events. That is, should future sample collection be modified due to the high turbidity.
(>1,000 nephelometric turbidity units [NTUs]) observed in the initial samples. A call was held with NYSDEC on May 8, 2012, to discuss the initial data and provide guidance on future monitoring (see Appendix G.3 of the 2013 Engineering Report, included in Appendix 20 for call minutes.) Also during this call, NYSDEC directed DPR to perform inorganic analyses on both filtered and unfiltered samples collected during the next sampling event. If the next round of results is found to be in expected ranges, then future sampling events will utilize only filtered samples for inorganic analyses.

NYSDEC provided DPR with requirements for future groundwater monitoring in their FPP Groundwater Characterization/Monitoring Objective, on May 8, 2012 (see Appendix G.4 of the 2013 Engineering Report, included in Appendix 20). DPR implemented the groundwater monitoring program in accordance with the schedule and monitoring parameters requested by NYSDEC.

The schedule included two additional quarterly sampling events, followed by approximately three semi-annual events (through completion of construction) and three post-construction annual sampling events. After the third annual sampling event, DPR may request to reduce the sampling frequency or cease the groundwater sampling program at the Site. Table 4-1 provides a schedule of the monitoring events that will be performed to complete this program and the parameters that will be analyzed for during each event.

Post-construction groundwater monitoring and groundwater monitoring well maintenance requirements are incorporated into the Post-Construction Custodial Care Plan for the Site (see Appendix I).

4.2.2 Liners

A single irrigation pond has been constructed at the Site. The purpose of this pond is to collect and store stormwater runoff and reuse it later for irrigation and maintenance of the golf course vegetative cover. This pond is fully lined to maximize the retention of irrigation water. The irrigation pond design documents were included in the November 25, 2009, permit application package. In addition, there are five smaller water quality ponds designed to provide active stormwater retention and limit the off-site migration of sediment. The geometry and grading (engineering design) of these ponds were also provided in the November 25, 2009, permit application package. DPR considered various methods to meet NYSDEC's request of August 6, 2010, to minimize the infiltration of water through "the lower layers of material to the maximum extent possible." Based on this consideration, DPR is implementing a recommendation contained in the November 16, 2010, memorandum (see Appendix D.1 of the 2013 Engineering Report, included in Appendix 20) to line the five on-site water quality ponds to limit water exfiltration. The pond system has been included in the overall water budget evaluation that was submitted and approved by NYSDEC in addition to the permeability of the upper imported fill material.

Supplemental drawings and specifications for the lining of these ponds are provided in Appendix D.4 of the 2013 Engineering Report, included in Appendix 20. The pond liner designs are consistent with the

previously approved geometry and grading (engineering design) presented in the November 25, 2009, permit application package.

4.2.3 Gas Venting

4.2.3.1 Active

According to the 2009 permit the site wide active landfill gas control system consistent with the proposed with the 2005 permit was withdrawn as a design modification. Active systems were installed at buildings and initially proposed for the irrigation lake.

Based on the Final Engineering report, due to the explosive nature, LFG is not allowed to accumulate within any enclosed structure at the site. Therefore active sub-slab depressurization systems (SSDS) have been installed at each of the enclosed buildings at the site. These systems have continuous explosive gas monitoring components of the design. The irrigation lake was not made active and continues as a passive system as per the September 2009 permit modification application.

The SSDS engineering drawings for the golf course facilities (maintenance building and comfort station) are provided in Appendix F.3 of the 2013 Engineering Report, included as Appendix 20. The Community Park comfort station design was provided in the November 25, 2009, permit application. The Waterfront Park comfort station has not been designed. Maintenance of the SSDS and their monitoring equipment will be performed in accordance with the operations, monitoring, and maintenance (OM&M) program for the Site's Landfill Gas management system (see Section 4.4.4). The design of any additional structures at the Site will be completed in accordance with New York City Department of Buildings requirements. The need for LFG mitigation systems for any future Site structures will be evaluated as part of their design.

4.2.3.2 Passive

The LFG management system as redesigned for the Site (since the November 25, 2009, permit application submittal) is an update of prior conceptual passive LFG designs and includes a passive system for the venting of LFG in all areas not covered by enclosed facilities. The primary goals for the design of the Site's LFG management system are to provide safe operating conditions and protect human health.

The proposed passive system is consistent with the plans presented in the 1999 EAS (AKRF 1999), the 2002 Technical Environmental Assessment (AKRF 2002), and the 2005 Engineering Reports (TRC 2005a, b) and was approved under the 2005 Part 360 Permit. It deviates from the 2009 permit renewal application prepared by TRC Engineers (TRC), which recommended an active system. An active system uses blowers or fans to extract gas through vents from the landfills subsurface, whereas a passive system uses vents without blowers or fans. Supplemental Site investigations and extraction testing performed by TRC Engineers at the Site in 2009 and 2010 were reviewed by Walsh Environmental Scientists and Engineers, LLC (Walsh) in 2010. Emissions modeling was also performed by EEEPC in 2010, as discussed in Section 4.4.1. Based on these evaluations and modeling of Site conditions, a Landfill Gas Management Plan (LFGMP) was prepared (see Appendix F.1 of the 2013 Engineering Report, included in Appendix 20). The plan concluded that a passive venting system is sufficient to achieve safe operating conditions for users and workers of the golf course and parks. A description and details of the Site's LFG management system

are presented in the LFGMP. The LFG management system as currently designed is consistent with the proposed venting system described in the 2005 Permit.

4.2.4 Vent Trench

The landfill gas perimeter trench was the primary gas-management structure installed in or about 2001. The Trench was initially proposed in the 1999 conceptual LFG control system. The purpose of the vent trench was to capture and prevent the off-site migration of LFG. The 2002 AKRF Report included installation details and certified drawings of the trench and its details.

The LFG trench was constructed along the eastern and a portion of the northern perimeter and was completed in 2001. The trench begins at the water's edge at the foot of Emerson Avenue, continues along the length of the Balcom Avenue Site boundary and continues approximately 1050 ft. in a westerly direction past the intersection of Schley and Buttrick Avenues.

The LFG passive trench is essentially a stone-filled /geotextile-wrapped envelope that begins three feet below the groundwater surface and extends upward to just below the ground surface. The upper 6 inches of the trench is dressed and finished with a layer of wood chips that allow LFG entering the trench to vent to the atmosphere. During the construction there were some areas where stability of the fill material at the water table was noted to be an issue and in these areas the trench was extended to a depth of one foot below the groundwater surface. In addition to the gravel filling of the trench to allow for a porous medium allowing LFG to move upward and escape, a continuous 4 to 6 inch diameter perforated PVC pipe was buried in the upper portion of the stone backfill. Vertical passive vents are connected to this horizontal piping to allow for future modifications should the top of the trench need a cap installed above it. The trench will collect and disperse any and all LFG that comes into it but it was primarily designed to remove methane from passing beyond the site boundary. The vent trench was specifically installed below the elevation of measured groundwater in order to maintain a constant layer of saturation within the lower part of the trench. This groundwater layer would prevent landfill gas from migrating beneath the trench and off of the site. Passive vents were also installed within the trench to allow a rapid ascent of LFG out of the trench and into the atmosphere. Concentrations of LFG that could be an issue within the trench would immediately be diffused in the atmosphere and reduced to a concentration that is not a concern.

Following the installation of the trench, methane concentrations were noted to have declined significantly, demonstrating the effectiveness in controlling LFG in the area.

Landfill gas migration is influenced by a number of factors including barometric pressure, diffusion gradients, composition and distribution of subsurface soil and fill material and groundwater. As landfill gas builds up and accumulates, it moves outward from the points or areas /zones where it is generated, spreading into other areas. Landfill gas migrating vertically will reach the surface and diffuse when it mixes with ambient atmospheric air. The other main concern for migration from the landfill was horizontal migration from the landfill to areas off-site. This horizontal migration can be controlled and to a significant extent can be eliminated through the use of LFG trenches. The LFG trench configuration can prevent accumulated gas from passing beyond the site because it creates an area allowing for diffusion and mixing of LFG with ambient air. The overall trench is constructed and filled with material of a higher

permeability than the surrounding soil or fill and typically offers a more direct connection to the open atmosphere. The base of the trench is extended into the water table which performs two functions that both increase the opportunity for LFG to be removed and thus prevent it from migrating offsite. The first offers a more open contact of the shallow groundwater surface to ambient air allowing dissolved concentrations to be volatilized out of the water column into the air and the second prevents LFG that exits from the landfill soil from travelling beneath the trench out beyond the site.

Approximately 5,350 feet of LFG passive vent trench was constructed along the site boundary between May 2001 and December 2001.

Routine inspections of the LFG passive vent trench included the following observations, depth of wood chip layer over geotextile, excessive fine grained materials, vegetation, erosion along the vent trench and any other condition that may have a potential to compromise the ability of the LFG passive vent trench to intercept and transmit LFG to the atmosphere. Refer to the non-conformance table. Monitoring includes routine bi-weekly observations and inspection of the following specific components of the trench:

- Observation of the covering wood chips to insure they extend to and are level with the ground surface and are free of excessive fine grained materials that would restrict the flow of LFG from the trench once it is intercepted.
- Observation of the vertical hard piping risers to insure they do not show signs of cracking bends or breaks;
- Observation of the vertical riser piping to insure they remain vertical and anchored as they were installed;
- Observation of the vertical vents and openings to insure they remain open.

Continued monitoring of the trench is described in Special Conditions 30 of the modified Permit with NYSDEC. This includes monitoring of groundwater levels in the adjacent monitoring wells. If the groundwater is noted below the bottom of the trench, the following actions are initiated:

1. Evaluate the methane concentrations in nearby perimeter methane monitoring wells and semi-permanent monitoring points. If the methane concentrations measured that day are below the site-specific action level of 25% LEL, continue the normal (bi-weekly) methane monitoring frequency and increase the groundwater level measurements at the location of concern to bi-weekly.
2. If the groundwater level measured at the initial bi-weekly monitoring event is above the base of the vent trench, then defer back to the routine monthly piezometer monitoring frequency.
3. If the groundwater level remains below the trench bottom for the first additional bi-weekly monitoring event, but nearby perimeter methane monitoring wells and semi-permanent monitoring points are below the site-specific methane action level of 25% LEL, continue groundwater level and methane monitoring at a bi-weekly frequency until such time as the

groundwater level is above the base of the trench. Then defer back to the routine monthly piezometer monitoring frequency.

4. If the groundwater level remains below trench bottom for the first additional bi-weekly monitoring event, and nearby perimeter methane monitoring wells and semi-permanent monitoring points are at or above the site-specific methane action level of 25% LEL, then continue monitoring the groundwater levels and methane concentrations for the second bi-weekly event.
5. If the groundwater level remains at or below the trench bottom for the second bi-weekly monitoring event, and the nearby perimeter monitoring wells and semi-permanent monitoring points remain at or above the site-specific methane action level of 25% LEL, further recommendations will be made to NYSDEC.

4.2.5 Landfill Cap

In accordance with provisions of the Permit dated May 21, 2014 the landfill was capped with minimum of one foot of shaping layer material over the landfill and one foot of cover layer material over top of the shaping layer material. In areas where there was less than 4 feet of shaping material over the waste layer, a layer of demarcation material was installed. See Section 4.4 for additional information related to the landfill cap construction.

The permit authorized importation of 2,514,000 cubic yards of material to the Site for overall capping of the waste material. This consisted of approximately 2,120,000 cubic yards of select exempt construction and demolition (C&D) debris for the shaping layer, and approximately 394,000 cubic yards of cover material. Specific restrictions were incorporated into the material and those restrictions were maintained and are described under the importation section of this Report. Final surface components of the cap including; greens, contour, heights and top soil) were incorporated into the site under the Nicklaus Design Technical Specification of the June 30, 2005 Engineering Report. This included:

- Greens-Mix imported to the site and tested as per the material testing requirements. Fertilizer and soil amendments applied on the greens after spreading to construction specifications and then grassed as per the specifications.
- Topsoil-Imported to be consistent with native topsoil, and free of rock and debris greater than three quarters of an inch as per Exhibit C of the Engineering Report. Soil amendments, fertilizer applications and seed were added to tee, fairway and rough areas as per Exhibit C of the June 30, 2005 Engineering Report.

4.2.6 Environmental Controls On-Site Structures

Due to its potentially explosive nature, LFG shall not be allowed to accumulate within any enclosed structure at the Site. To protect the occupants, an under slab vent system for each enclosed building shall be installed and continuously operated. The LFGMP (see Appendix F.1 of the 2013 Engineering Report, included in Appendix 20) describes the active sub-slab depressurization systems (SSDS) that have been designed for the under-slab of each enclosed building at the Site. These systems will have continuous explosive gas monitoring with local and remote alarm capabilities. The SSDS engineering drawings for the

golf course facilities (maintenance building and comfort station) are provided in Appendix F.3 of the 2013 Engineering Report, included in Appendix 20. The Community Park comfort station design was provided in the November 25, 2009, permit application.
Maintenance of the SSDS and their monitoring equipment will be performed in accordance with the operations, monitoring, and maintenance (OM&M) program for the Site's Landfill Gas management system (see Section 4.4.4). The design of any additional structures at the Site will be completed in accordance with New York City Department of Buildings requirements. The need for LFG mitigation systems for any future Site structures will be evaluated as part of their design

Low-permeability soil/bentonite collars ("soil collars") will be installed for all utility trenches that contain permeable bedding in order to prevent the migration of LFG into enclosed buildings at the Site. The soil collars will be installed around the water and sewer pipelines, within the trenches at the subsurface location where the pipeline crosses above the building foundation (the building line). Each soil collar will be passively vented as described in the LFGMP (see Appendix F.1 of the 2013 Engineering Report, included in Appendix 20) and as shown on the engineering design drawings in Appendix F.2 of the 2013 Engineering Report, included in Appendix 20. Similarly, conduit seals will be used for electrical conduits that are installed in trenches using permeable bedding materials. The conduit seals will be installed at the building lines. Other utility LFG controls include the under slab passive venting for the aboveground double-check valve (DCV) enclosure. The DCV enclosure is for the potable water supply line as it enters the golf course site. Detailed design drawings for the venting the DCV enclosures are provided in Appendix F.4 of the 2013 Engineering Report, included in Appendix 20. The need for LFG venting for any future Site subsurface vaults will be evaluated as part of their design.

4.3 Municipal Solid Waste (MSW)

Municipal solid waste ("MSW") was generated throughout site development and excavation activities. MSW material was not utilized as fill material on-site after it was encountered and excavated during construction activities with the exception of MSW excavated and reused on-site in accordance with an Order On Consent issued by the NYSDEC and fully executed as of January 4, 2004 (Order On Consent No. R2-20030724-187). A copy of the executed consent order is included in Appendix 19. In accordance with Special Condition 8 of the 2014 Permit, upon encountering MSW during site development, the material was transported and properly secured into segregated stockpile locations prior to off-site disposal. MSW material consisted of metal, glass, tires, plastics, rubber, paper, fabrics, and miscellaneous debris not suitable for the shaping layer. Refer to Section 4.5 of this report to review further details regarding the minimum fill cover over top of the MSW.

Prior to stockpiling any excavated MSW, the existing ground surface was covered with an impermeable plastic membrane. The stockpile was then encircled with silt fence and the stockpile was covered with an impermeable plastic that was secured with sand bags after the MSW was stockpiled and prior to off-site disposal.

Waste characterization sampling was performed prior to off-site removal as required prior to acceptance by each solid waste facility. Prior to disposal, waste samples were collected from each of the stockpiles

and analyzed to determine if the material was hazardous and to determine a suitable NYSDEC facility for disposal by way of a permitted hauler. A January 22, 2010 letter approving Seneca Meadows Landfill as a disposal facility is included in Appendix 19.

Residual MSW excavated by Trump associated with utility and drilling work at the Golf Course stockpiled in the adjacent Waterfront Park have been removed.

4.3.1 Manifests

Manifests were collected for each load of MSW generated and disposed of off-site. Manifests were completed for each load of MSW prior to leaving the Site. Completed manifests contained the following information: driver signatures and appropriate transporter information, facility designation including the address for the facility that was receiving the material, a description of the material being transported, the site generator's mailing and site address, and a total quantity of the material leaving the Site. The weight of MSW was determined by weighing the material (in tons) during the loading process. The MSW was loaded with a pay loader with a scale attached to the bucket. A receipt for the weight of each load was printed and was presented to NYCDPR with the manifest for review. NYCDPR and/or their designated representative signed the manifests as the generator, and then the manifests were then presented to the IEM for final verification.

Copies of the MSW disposal manifests are included in Appendix 14.

Note that MSW manifests accounting for material prior to October 25, 2010 (i.e. Woodard & Curran's first day on-site as the IEM), cannot be retrieved and are not included in the appendix. The information was stored in a NYCDPR document repository that was damaged and the files have been lost. However, the FMRs prior to October 25, 2010 comment on the nature of this work.

4.4 Earthwork/Fill Placement

Earthwork and fill placement for this Project were performed in accordance with the Permit. A response received from NYSDEC on July 28, 2009 (included in Appendix C.2 of the 2013 Engineering Report, included in Appendix 20), provided additional clarification regarding what are considered active and passive recreational areas. As per this letter:

Active Recreation – "…all other areas that are not covered with a building or other impermeable cover system… are deemed active recreational areas."

Passive Recreation – "…the golf course is deemed a "passive recreational area" and is required to have a one foot thick cover layer over a demarcation layer."

Following this directive, NYCDPR requested clarification from NYSDEC regarding the demarcation layer requirement for the extent of the Golf Course. The request for clarification was based on the need for further specificity regarding the use of a demarcation layer on the Golf Course.

In response, NYSDEC and NYSDOH reviewed a summary of the analytical data for all the shaping material imported to the Site. Upon review of the data set, confirmatory analytical sampling of the in-place shaping material was requested by the NYSDEC and NYSDOH. NYCDPR conducted test pit sampling and analysis under an approved work plan and submitted the data to the NYSDEC on February 16, 2011.

In their letter dated March 9, 2011, the NYSDEC stated that "NYSDOH reviewed the shaping layer test pit data and determined that it confirmed existing shaping layer data." The NYSDEC and NYSDOH agreed that a demarcation layer would not be required at areas of the golf course having a fill thickness of five or more feet of combined shaping and cover layer materials. The March 9, 2011 letter is included in Appendix C.3 of the 2013 Engineering Report, included in Appendix 20.

The aforementioned directives were the basis for the earthwork, fill placement, and landfill capping process. Additional details related to shaping layer material placement, demarcation layer installation, cover layer material installation, and related construction is as follows.

4.4.1 Shaping Layer Material

The Permit requires a minimum of one foot of clean shaping layer material to be installed over top of the existing MSW prior to cover layer material placement. Specific to the Golf Course, grading and compaction activities associated with the shaping layer material were generally completed by hole, consistent with the golf course architect's design. Once grading and compaction of the shaping layer material was completed, NYCDPR completed topographic surveys of the newly graded shaping material layer to assist in determining the depth of clean shaping layer material that was present over the pre-existing landfill surface. These shaping layer material surveys were generated intermittently as shaping layer material installation was completed in sections of the Golf Course.

An analysis was conducted by the IEM, which compared compiled historic surveys from 1998 to the final shaping layer surface surveys completed by NYCDPR. The 1998 surveys included elevations representative of the landfill surface for the Site prior to the earthwork associated with the Project. Based on an analysis and comparison of the survey data, portions of the Site that had less than four feet of approved shaping layer material were identified in a series of earthwork analysis drawings that were provided to the NYSDEC. The earthwork analysis drawings are included in Appendix 10. These plans identify the depth of shaping layer material and show the general progression of shaping layer material filling across the Site. Figure SP-001 entitled "Shaping Layer Material Earthwork Analysis via Surveys" includes a site wide earthwork analysis compiled from the various Site surveys and earthwork analyses completed as construction progressed at the Site.

In areas identified on the earthwork analysis drawings to have less than one foot of clean, in-place shaping material, test pits were performed by the Contractor and observed by the IEM to verify that a minimum of one foot of shaping layer material was present over the MSW, per the plans and Permit requirements.

If areas were found to have less than the required one-foot minimum of shaping material and could not receive additional fill based on the design plans, these areas were adjusted by over excavating the MSW

and backfilling with clean shaping layer material. This process was necessary in order to maintain the designed grades and comply with the Permit conditions. With oversight by the IEM, areas with MSW encountered at shallow depths in the tests pits were excavated outwards from the test pit location until one foot of clean shaping layer material was present. See Figure SP-100 entitled "Shaping Layer Material Test Pit Plan", which includes test pit locations superimposed on an earthwork analysis that visually represents the frequency, location, and presence of MSW within the required one foot minimum shaping layer section prior to reshaping. All test pit locations and the limits of the over-excavation were GPS located by the IEM utilizing a handheld GPS unit. Test pit locations were spaced 50 feet apart over the entire areas that the survey analysis estimated to have less than one foot of shaping layer material. In addition, if MSW material was encountered within the one-foot minimum shaping layer, the frequency of test pits were increased at the IEM's discretion to more accurately determine the extent of over-excavation required. Observations of test pit activities associated with evaluating the shaping layer material thickness are detailed in the IEMs Daily Observation Reports.

4.4.2 Demarcation Layer

Consistent with Special Condition 14 of the 2014 Permit, a demarcation layer was installed at the Site, specifically the Golf Course, where the combined thickness of shaping layer and cover layer materials combined were less than five feet. For this Project, "demarcation layer" meant a brightly colored, permeable plastic material placed on top of the Site's shaping layer material and directly beneath the Site's final cover layer material that is easily recognizable during an excavation. The request was made for the protection of Site workers during any future excavation work beneath the cover layer at the Site. Demarcation layer material for this Project consisted of orange construction fencing for the Golf Course.

On July 10, 2012, the NYSDEC confirmed that a nine-inch thick asphalt and subbase layer for the cart paths did not require any underlying cover material or demarcation layer. A black geo-grid material was installed under the cart paths associated with the Golf Course as part of the design. A copy of the correspondence is included in Appendix 19.

On November 21, 2012, the NYSDEC notified NYCDPR that demarcation layer may be eliminated from under ponds as NYCDPR identified that demarcation layer was not required as part of the Permit. A copy of the November 21, 2012 correspondence is included in Appendix 19.

NYCDPR prepared a Demarcation Layer Plan based on a comparison of final design grades and the top of waste elevations extrapolated from soil boring data. The Demarcation Layer Plan is included in Appendix C.4 of the 2013 Engineering Report (Appendix 20). Field verification that the demarcation requirements were being met was performed continuously and routinely by the IEM to confirm Permit compliance as outlined in the shaping layer material section above. Based on the data gathered from the earthwork analysis plans and the test pit excavations, actual areas requiring demarcation layer were identified.

In instances where NYCDPR felt that the installation of demarcation material was not necessary, test pits were excavated to four feet below grade, spaced 50 feet apart, to determine if there was more than four feet of clean shaping layer material installed over MSW. If it was determined via test pits that there was

more than four feet of clean shaping layer material present, demarcation material was not installed. The reasoning assumed a one foot thick cover layer installation and considered the March 9, 2011 NYSDEC/NYSDOH correspondence determining that demarcation layer was not required if the combined fill thickness above MSW was five feet or greater. The March 9, 2011 correspondence is included in Appendix C.3 of the 2013 Engineering Report (Appendix 20).

All areas with less than four feet of shaping layer material present that required the installation of demarcation layer material are identified on Figure SP-200 entitled "Demarcation Layer Plan". The limits of demarcation layer material, as represented on Figure SP-200, were located by the IEM using handheld GPS units at the time of installation, prior to cover layer material installation. Areas associated with the cart paths are also identified on Figure SP-200.

4.4.3 Cover Layer Material

Cover layer material was installed at the Site in accordance with the Permit. Special Condition 15(d) of the 2005 Permit required the following:

"The final placement (including topsoil), location, thickness, and detailed chemical limits of the final cover layers on the Site, including the community park and waterfront park, are subject to the specifications, directions and requirements determined by the NYS Department of Health (NYSDOH) to be applicable. It is the responsibility of the Permitees to obtain a written determination from NYSDOH.
The Permitees must provide the Department with a copy of NYSDOH's determination. No cover layer material may be placed on the Site, until the Department acknowledges receipt of NYSDOH's determination."

As required by Special Condition 15(d) of the 2005 Permit noted above, NYCDPR obtained such written determination from NYSDOH in a letter dated, August 2, 2006 included as Appendix C.3 of the 2013 Engineering Report (Appendix 20).

The NYSDEC's active recreational determination from July 28, 2009, required that NYCDPR install two feet of cover layer material and a demarcation layer throughout the Community Park. Soil probes confirmed extremely consistent and appropriate thickness of cover material throughout the Community Park and Golf Course.

For the Golf Course, the upper portion of the landfill was capped using Permit specified criteria for sand and/or topsoil material formally referred to as cover layer material. A sand material was used for the majority of the golf course cover layer with topsoil being used primarily in tree planting pits and other landscaped areas. The IEM observed capping activities associated with the cover layer material including, inspecting cover material at each source site and at the Site per the conditions set forth in the Permit and supporting reference documents. After installation of the shaping layer material and demarcation layer (as required), the cover layer material was installed. The IEM confirmed the depth of cover layer material placed on the Site in accordance with the Permit at the time of installation.

A minimum of one foot of cover layer material was placed over top of the shaping layer material consistent with the passive recreational determination at the Golf Course. Cover layer material was installed by means of either transporting stockpiled material that was previously inspected and approved by the IEM or by directly dumping the material in the work areas as it was imported to the Site. The material was then spread by bulldozers and specialty golf course shaping equipment. The IEM confirmed the depth of the cover layer material placed on the Golf Course area utilizing a graduated rod as the material was being installed.

Confirmation of the minimum of one foot of cover layer material installation on the Golf Course is included on Figure SP-200 entitled "Cover Layer Material Plan". This plan identifies the DOR report numbers and corresponding dates for when the IEM witnessed and measured a minimum of one foot of cover layer material being installed on the Golf Course. The cover layer material depth checks were completed by the IEM using a graduated rod to confirm that the final placement consisted of a minimum of one foot of cover layer material soil. Individual DORs documenting the IEM's observations are included in Appendix 5.

In addition to the IEM checking and confirming the minimum one foot thickness of cover layer material immediately upon installation, post-construction soil probes were completed in March 2015, and dug by hand to confirm the depth of cover layer material throughout the Golf Course. Prior to March 2015, once the site construction concluded and the vegetation was established throughout the Golf Course, an aerial survey (including topography) was performed by LAWS in Spring/Summer 2014 and provided to NYCDPR and subsequently to the IEM in December 2014. In addition, NYCDPR performed a Golf Course wide ground topographic field survey.

The IEM was provided with electronic AutoCAD files of both surveys that captured the final topography of the cover layer material surface. The IEM performed a cut/fill analysis using Civil 3D software by comparing each cover layer material survey to the previously generated shaping layer material surveyed surface (also field surveyed by NYCDPR). Based on a review of the cut/fill analysis results and subsequent discussions with the NYSDEC and NYCDPR, it was agreed by all parties that both survey results were inconclusive, and could not accurately reflect the thickness of the cover layer material on the Site. Since the 12-inch minimum cover layer material thickness could not be verified via survey, NYCDPR then moved forward with field investigations using handheld soil probing equipment in order to perform comprehensive Golf Course wide physical confirmation depth checks.

The IEM was on-site and witnessed all soil probes, and documented all soil probe locations and depth results using handheld GPS equipment. The soil probing work was completed by NYCDPR staff. Soil probe fieldwork commenced on March 11, 2015 and was completed on March 27, 2015. Soil probes were initially completed on a 50-foot grid but were increased to a 100-foot grid on March 19, 2015 based on the satisfactory initial field results and approval by the NYSDEC in an email dated March 18, 2015 (see Appendix 19 for the March 18, 2015 email).

Refer to Figure SP-003 entitled "Cover Layer Material Soil Probe Investigation Results" which illustrates the results of the soil probing investigation. The final results of the soil probing investigation were reviewed on-site with NYSDEC staff, and the NYSDEC required that NYCDPR correct an area in the vicinity of the Hole 14 Green, which resulted in cover soil layer thicknesses of 3 inches and 6 inches. NYSDEC staff stated that this area would require reconstruction in order to satisfy the intent of the 12-inch cover layer material thickness as required by the Permit. NYSDEC staff concluded that the remaining soil probe results sufficiently addressed the intent of the 12-inch cover layer material thickness Permit requirement, and the remaining Golf Course area did not require any further reconstruction or evaluation of the cover layer material.

As per the IEM's Daily Observation Reports, the IEM witnessed the subsequent field delineation the of the area deemed to be of insufficient cover layer material thickness (i.e. the area adjacent to Hole 14 that resulted in cover layer material depths of 3 inches and 6 inches via soil probe results) during the week of April 20, 2015. This was performed by using the soil probe equipment to accurately delineate the limits of the area having a cover layer material thickness of less than 12 inches, and resulted in an area of approximately 6 feet by 12 feet.

On May 4, 2015, the IEM observed the Trump Organization construction crew over-excavate the previously delineated areas that had less than 12 inches of required cover material, adjacent to Hole 14 Green. The area was over-excavated approximately 24 inches below grade, and 24 inches of Cover Material was backfilled and graded over the excavated area. The excavated area was GPS mapped using a hand held Trimble device. Excavated surplus shaping material was transported to a shaping stockpile adjacent to Pond P2.

Similar to the Golf Course, the 24 inch minimum cover layer/shaping layer materials thickness could not be verified via survey. NYCDPR moved forward with field investigations using soil probes in order to perform physical confirmation depth checks. The IEM was on-site and witnessed all soil probes, and documented all soil probe locations and depth results using handheld GPS equipment. The soil probing work was completed by a NYCDPR subcontractor. Soil probe fieldwork commenced on May 18, 2015 and was completed on May 22, 2015. Soil probes were completed on a 50-foot grid. Refer to Figure SP-004, entitled "Community Park Cover/Shaping Layer Material Soil Probe Investigation Results", which illustrates the results of the soil probing investigation.

4.4.4 Greens and Tees Mix, Bunker Sand

Consistent with Section 2.1.2 "Cover Layer Fill Specifications" included in Volume #2 of the 2005 Engineering Report, environmental testing was not required, consistent with cover layer material requirements for the green and tees mix or bunker sand, and therefore was not completed for these materials.

On June 8, 2012, the NYSDEC confirmed that the sand material used for the tees, greens, and bunkers should not be counted towards the Permit stated allowable cover soil maximum. A copy of the June 8,

2012 correspondence is included in Appendix 19. NYCDPR's consultants estimated the required sand material volumes as follows: Tees and Greens (24,705 cubic yards), Driving Range Tee (3,025 cubic yards), and bunkers (6,076 cubic yards). Since these values were estimated, calculated by NYCDPR's consultants, it shall be noted that actual installed volumes may have fluctuated from the volumes identified above. This information is based on an email from Joe Voss to Faisal Choudhury on June 13, 2012.

Special Condition 15 of the 2005 Permit did require that the tees and greens mix imported to the site to be tested as per material testing requirements to meet the project technical specifications. Fertilizer and soil amendments could be applied on the tees and greens mix after spreading to construction specifications and finally grassed, as per the specifications provided by the agronomist.

4.4.5 Topsoil

Topsoil was used on the Site, in lieu of sand, specifically in tree planting pits and other landscape areas. Any topsoil that was imported and used on the Site was approved and met all of the cover layer material Permit requirements including the specification included in Exhibit C of the 2005 Engineering Report.

4.5 Meetings

On a bi-weekly basis during construction of the Community Park and the Golf Course, progress meetings occurred in the NYCDPR field office trailer on the Site. Various representatives from NYCDPR, Trump, LAWS, KSE, TRC, the IEM, and appointed representatives attended the meetings to discuss construction progress, current issues, and scheduling.

Available meeting minutes from construction progress meetings are attached as Appendix 9.

4.6 As-Built Survey, Record Drawings, Deviations from Approved Design Plans

This section deals specifically with as built drawings, final record drawings and deviations that occurred during construction. It is further broken down into work performed in the Community Park, the Golf Course, the Waterfront Park, deviations to NYSDEC Permit as it pertained to fill importation quantities, modifications to the landfill gas vent trench and additions to the golf course made by the concessionaire.

4.6.1 Community Park

The Community Park project consists of the following features and was designed by Thomas Balsley Associates:

- A softball field and smaller peewee/T-ball field with new drainage
- Two basketball courts
- New formalized park entrances
- Play areas for tots to pre-teens
- Seating areas and lawn for non-programmed activities
- A path and trail system that winds throughout the park
- A detention pond which collectives drainage from the eastern part of the golf course
- Foot bridges
- Shade structure

- Timber deck overlook
- Herbaceous plant materials
- Temporary below grade utilities to service a standard DPR Comfort Station (constructed under a separate contract),
- Below grade infrastructure to service Community Park lighting and fountains,
- Modifications to the Landfill Gas Vent Trench system
- New perimeter fence.
- New Comfort Station. (The comfort station construction is still in progress and expected to be completed in the Fall of 2015)

Deviations to the Community Park project consist of the following:

- The reconfiguration of the location of the perimeter fence on the south and west sides of the Community Park reducing the area of the site[1].
- One missing Vertical Landfill Gas vent just south of the most southerly entrance to the park.
- The relocation of a drain inlet in the softball field[2].
- The utilities servicing the Comfort Station are constructed as of December 10, 2015,[3] which represents the date in which the sanitary sewer connection was completed.

It is noted that below grade features were not examined during a NYCDPR field inspection conducted during July 2014. Community Park as-built information and documentation are included in Appendix 16 and includes a November 18, 2011 letter from LAWS indicating that the Community Park construction was completed as designed (exclusive of the comfort station) as well as three as-built drawings associated with the pond liner construction dated July 14, 2010 as prepared and certified by LAWS (Appendix 16).

4.6.2 Golf Course

The Ferry Point Park Golf Course project consisted of the following:

- A Maintenance Building with an active sub-slab depressurization system.
- A comfort station with as active sub-slab depressurization system, which includes a snack bar.
- A unenclosed rain shelter
- An 18 hole links style golf course
- A practice area
- Fill and topsoil importation
- A site drainage system and retention ponds
- A new irrigation pond and irrigation system
- All the necessary plumbing, electrical, gas, environmental monitoring and control devices for the golf course, maintenance facility and comfort station
- Roadway and parking area construction, paving, striping and drainage in compliance with the DEC permit
- Perimeter fencing and appropriate landscape screenings.

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[1] See App. 4; Community Park Contract Drawings; Thomas Balsley Associates Constr. Dwg L1.3 & L1.6 dated 03/06/09, revised 09/30/09.

[2] See App. 4; Community Park Contract Drawings; Thomas Balsley Associates Constr. Sketch dated 2/11/09

[3] See App. 4; Community Park Contract Drawings; Thomas Balsley Associates Constr. Comfort Station Dwg P-2 dated 1/26/09

Deviations to the Golf Course consist of the following:

- The active venting system around the Irrigation Pond was converted into a passive system. Fiberglass manholes were changed to concrete manholes and additional piping added around the entire pond. Six (6) vertical passive vents were added, one at each box location and installed October 2014, following NYSDEC discussion. On May 22, 2015 the NYSDEC approved the removal of vertical passive vent #5 thereby leaving five (5) vertical passive vents in operation.
- Modifications to the grading plan did occur as well as minor modifications to drainage and are documented in "Ferry Point Site" visit notes produced by "Nicklaus" from 2010 through 2013 and as shown on supplemental design drawings. (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015 and revised 4/23/2015)
- Retention ponds were lined as per NYSDEC requirements as shown on supplemental design drawings. (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015 and revised 4/23/2015)
- The golf cart path surface material was changed to asphalt and additional drainage was added as shown on supplemental design drawings. (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015 and revised 4/23/2015)
- The Clubhouse Parking Lot paved footprint was increase/installed as per NYSDEC Consent Order # R2-20100521-172. The Clubhouse Parking Lot was completed in May 2014 as shown on supplemental design drawings. (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015 and revised 4/23/2015)
- The irrigation pond pipe penetrations were revised as shown on supplemental design drawings. (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015 and revised 4/23/2015)
- The Turf Nursery was revised as shown on supplemental design drawings. (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015 and revised 4/23/2015)
- The active venting system inside of the Comfort Station was modified as per Integral Engineering, Inc. design drawings. (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015 and revised 4/23/2015). System is functioning, and requires the installation of sensor components of the vapor detection system. Contractor procurement for the installation of the sensor components is in its final stage of approval. Implementation is anticipated by Spring 2016 and the final signed and stamped as-built drawing will be submitted to NYSDEC following prompt inspection of the installation.

4.6.3 Waterfront Park

Construction has not begun in the area designated "Waterfront Park".

4.6.4 Additions to the Golf – Concessionaire

The concessionaire running the Golf Course is the Trump Organization. Since in their possession (NYCDPR Use Inspections were held for various parts of the project from September 2012 through March 2014) the following additions/deviations have occurred (Refer to Appendix 16; Deviations; Construction Deviation Drawings 1 through 12, dated 4/10/2015, revised 4/23/2015, 6/25/2015 & 7/13/2015):

- The construction of a Golf Cart Barn (currently under construction)

- The construction of a sign (currently under construction) and curb line realignment
- The construction of a temporary clubhouse including temporary utility services (trailers placed upon the asphalt parking lot)
- The construction of a "starter" kiosk including utility services as well as minor golf cart path widening around it.
- The construction of a clock.
- The construction of a weather vane/station.
- Minor irrigation changes.
- Additional planting along the perimeter fence line. Removal of the aluminum fence along the Waterfront Park and the Golf Course and the installation of a fiber optic sonar alert system in its place (installation of the fiber optic sonar alert system occurred from July 25, 2015 to August 19, 2015 and was witnessed by the IEM).

5 Environmental Monitoring

5.1 SWPPP

On November 20, 2003, NYCDPR received an Acknowledgement of Notice of Intent for coverage under SPDES General Permit for Stormwater Discharges from Construction Activity (General Permit No. GP-02-01), permit identification number NYR10D547, which transitioned SPDES General Permit coverage previously held under GP-93-06. On May 12, 2009, NYCDPR received an Acknowledgement of Notice of Intent for coverage under SPDES General Permit GP-0-8-001; permit identification number NYR10R112, which was maintained throughout construction completion. A copy of the SPDES General Permit Acknowledgement and Notice of Intent are included in Appendix 1.

In compliance with NYSDEC guidelines for State Pollution Discharge Elimination System (SPDES) General Permit (GP-0-8-001) and General Condition 9 of the 2014 Permit, a Storm Water Pollution Prevention Plan (SWPPP) was implemented during the course of construction at the Site. All work was completed in compliance with the final SWPPP, dated December 22, 2009.

In addition to intermittent IEM SWPPP inspections, NYCDPR representatives also performed SWPPP inspections. NYCDPR performed bi-weekly inspections and associated Site Assessment Reports (filed at the FPP document repository) to ensure compliance with Permit requirements. SWPPP inspections were carried out through the spring of 2014. The SPDES permit will remain effective until completion of ongoing construction including the Golf Course Clubhouse.
Every possible action was taken to avoid non-compliance, such as turbid water leaving the Site. The following is a list of permanent features that were installed at the Site, beyond the SWPPP requirements:

- French drain at the eastern, western, and northern perimeters of the Site to control surface flow of stormwater;
- All ponds were lined, to prevent stormwater infiltration into the solid waste layer; and
- A new trash rack and rock outlet dam at the 60-inch Whitestone sewer outfall draining to the East River.

5.2 Landfill and Off-Site Gas Monitoring

The entire Ferry Point Site is equipped with a Landfill Gas (LFG) Management system to cover both on and off site monitoring. The systems purpose is to allow use of the site in its intended purpose as a golf course without having the occupants on the site and users of the golf course being exposed to harmful conditions that would be the direct result of the existence of the landfill. The Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East Bronx, New York May/August/Oct 2013, referenced the summary of prior LFG efforts. These included preparation of a model for surface methane emissions using data collected during 2009 and 2010. Data for these studies also included a health impact analysis that is summarized in this final Certification Report and is attached with the 2013 Supplemental Engineering Report as an Appendix 20.

The generation rates for LFG were estimated as far back as 1999 using EPA Guidance documents and the results indicated the LFG rates for Ferry Point were consistent with municipal solid waste landfill rates for a facility of this era and overall age. The analysis in 2010 also evaluated hazardous air pollutants (HAPs) in areas of the course as well as community park. In 2011, NYSDEC concluded that there was not an ambient air impact from gas vent emissions and that there was no health impact in the park. This was a major component that allowed the discontinuation of monitoring the passive vents installed in 12 locations throughout the park. Monitoring of the passive vents is included as Appendix E.3 in the Supplemental Engineering Report (Appendix 20).

The following were included as components of the Ferry Point Park Landfill Gas Control System:

1. Irrigation Lake Venting System-Passive
2. Water Quality Ponds Venting System-Passive
3. Sub-Slab Depressurization Systems
    a. Maintenance Facility-Active
    b. Comfort Station in Golf Course-Active
    c. Comfort Station Community Park-Active
4. LFG Venting for subsurface utilities entering enclosed spaces-Passive
5. Perimeter Vent Trench-Passive
6. Perimeter Vent Trench/East-Passive
7. Golf Course 25 In-ground vents-Passive

The Ecology & Environment 2011 Landfill Gas Management Report describes in detail the landfill gas generation rates, composition, migration pathways and methods for diffusion (Appendix 20). It also discusses both the horizontal and vertical migration of LFG across the landfill. Figure 3-1 in the LFG Report (MSW Fill Progression Map, March 11, 2015) shows the historical fill progression that occurred over the landfill lifespan between 1951 to 1959 and how significant areas of open water was filled in over the life of the landfill .

As far back as 1999, Landfill Gas generation rates were noted to be low and in the range of .00004 cubic feet per minute per square foot or about 2cfm per acre of surface area. These generation rates provided discussion and recommendation for installation of an active system beneath planned structures. A 1999 Report referenced in the Ferry Point East Landfill Gas Management Plan did not recommend installation of active venting systems in open spaces with the exception of specific turf grass areas. The 1999 Report also included numerous LFG Control Systems including; interceptor and venting systems, impermeable liner systems for irrigation ponds, soil plugs and conduit seals for underground utilities that enter buildings (Appendix 20).

The main facility LFG management structure was the perimeter vent trench installed in 2001. The specific purpose was to prevent offsite migration of landfill gas. This was designed, and installed with oversight by TRC. The entire trench was installed along the eastern site boundary and allowed a gas barrier to be present between the site and the neighboring residential homes. Construction included extending the trench from the water's edge at Emerson Avenue along Balcom Avenue and the site boundary, approximately 1050 ft. past the intersection of Schley and Buttrick Avenues.

Monitoring of the venting trench began using a number of wells that were installed along the trench. In 2001 monitoring performed after the trench was installed indicated there was an off-site source of methane. This was identified by AKRF and further evaluation along the venting trench indicated there were additional off-site LFG readings. Test pits were identified to have MSW beyond the site and this was one potential source of the elevated readings. The second was the historic filling in the northeastern portion of the site on a former tidal or marsh wetland. No methane was reported in ambient air at that time and the source of methane was concluded by AKRF to have originated from an off-site source.

The initial facility LFG system was proposed to be installed as an active system. Following the 2009 landfill permit modification submittal, the conceptual passive LFG system was updated to include all areas not covered by enclosed structures. In summary, the passive LFG system meets a number of historic reports including the 1999 EAS (AKRF), 2002 referenced in the Landfill Gas Management Plan (Appendix 20) and Volume #2 Application for Modification to the Solid Waste Permit Engineering Report, June 30, 2005, Appendix 20) and was approved under the 2005 NYSDEC Part 360 permit (Appendix 1). In the 2009 DEC Part 360 Permit Modification Request (November 25, 2009, Appendix 20), an active system was recommended. Supplemental Site investigations and extraction testing was performed by TRC Engineers in the period between 2009 and 2010. This information was reviewed by Walsh Environmental Scientists and Engineers in 2010 (Ferry Point Landfill Gas Report, November 2010, Appendix 20). The resulting analysis and evaluation concluded that the Site was able to be operated safely with a passive venting system which was consistent with the 2005 Permit.

The July 2000 NYSDEC Part 360 Permit (Appendix 1) and February 2002 Part 360 Permit Modification (Appendix 1) approved by NYSDEC included numerous conditions related to material importation and capping. The permit was also specific in requiring the installation of a series of perimeter-based landfill gas monitoring wells. Twenty-one (21) perimeter monitoring wells were initially recommended and a final total of 25 were installed at intervals of approximately 250-300 ft. around the perimeter (PZ-01 to PZ-25),

(SH-21 Groundwater Monitoring Well Construction; November 8, 2011. The perimeter for purposes of these wells would be the edge of the golf course portion of the landfill and the adjacent residential neighborhood. An additional 56 monitoring points were required to be installed as the main component of the off-site monitoring network. The off-site wells were referenced in the modified 360 permit. The combined perimeter and off-site wells comprise the full gas monitoring system for the golf course fill area.

Modifications to the overall Landfill Gas Collection systems were based on and included the following:

- In 1986, a passive venting system was reportedly installed with outflow venting. In 2002, there was a plan presented by TRC to perform test pits in order to identify this system and more specifically, to identify the outflow vent location and to determine if connective piping was functioning. The system was never located and has not been able to be incorporated into any LFG system.
- 2005 Engineering Report Vol. 1 (June 30, 2005, Appendix 20) included several LFG components and systems that were aimed to maintain a similar program to the 1999 proposed EAS. This included active systems for all enclosed buildings and sealed penetrations for utility connections. All perimeter and off-site monitoring wells would be monitored bi-weekly for both methane and oxygen. Monitoring showed several points off-site with elevated levels indicating a source that was also located beyond the site. Groundwater was monitored on a monthly basis to evaluate water level in concert with the LFG trench elevation. Irrigation Lake and ponds were recommended to have gas-venting layers and liners installed at their base to allow for collection and discharge of gas collected from beneath them. Specific instances of impermeable barrier installation could be noted where turf health was necessary to be maintained. Most specifically, the 2005 Report did not recommend LFG venting systems in open space areas (Appendix 20).
- A 2009 Extraction Pilot test was conducted to better understand generation rates for on-site LFG. The interpretation of the results of this test prompted a proposal for a low-flow active LFG system that covered the overall golf course. The reason referenced in the Supplemental Engineering Report for the Solid Waste Facility Permit Application, October 13, Appendix 20) was that methane levels in the subsurface was not expected to be able to be made safe by the opening of the golf course. The irrigation pond system was also included in the plan to be connected to the landfill venting system. One caution in this report was the potential for pulling large volumes of ambient atmospheric air into the subsurface which could cause fires and explosions. The system included some forty control zones of extraction wells, green and tee collection piping all connected to vent flares with in-line fans. This system was never instituted.

Modifications to the gas monitoring system included the design and installation of a landfill gas (LFG) vent trench along much of the eastern park boundary. This trench extends from the water's edge at the foot of Emerson Avenue, along the entire length of the site boundary of Balcom Avenue and along Schley Avenue. The trench continues approximately 1050 linear feet to the west past the intersection of Schley and Buttrick Avenues. The trench totals just over 1 mile in length (5350 feet) and construction began in May 2001 and was completed by the end of December 2001. This trench does not cover the entire upland

perimeter. The remaining portion was covered with an existing trench along Miles Avenue. This was planned to remain following the golf course development and provided an effective cutoff for off-site migration in that direction. The final construction included the trench and drainage.

The LFG passive vent trench was designed to intercept landfill gases (primarily methane) originating and leaving the site. The limits of the municipal solid waste extend beyond the park boundaries and the LFG passive trench was not designed to facilitate collection of or negate the impact of gas generated from that material. The trench presents a sound engineering control that will intercept gas migrating through preferential pathways and other routes of least resistance that intersect it. The LFG trench acts to briefly capture LFG moving out of the park and then allows it to vent to the atmosphere. The trench is designed to have a very high relative permeability with increased porosity in comparison to the landfill waste material. As gas enters the trench is can easily and rapidly mix with ambient air in the pore space and then rise out where it can be discharge to the atmosphere. One of the key components of the trench is that the bottom remains into the water table. As long as the bottom of the trench is submerged in the shallow water table, LFGs at the Park cannot migrate beneath and beyond the trench.

The 25 perimeter monitoring wells (also referred to during the construction as piezometers) were located immediately adjacent to the LFG passive vent trench and along the site perimeter adjacent to Miles Avenue. The specific purpose was to provide consistent data comparing the trench bottom and top of the water table to identify locations where the water table may have dropped below the trench, thus indicating the ability for the trench to intercept and capture all LFG along its entire length.

The LFG passive vent trench was constructed of a geotextile wrapped stone envelope that extends from .5 ft. below the ground surface down to a depth of approximately 3 ft. below the surface of the water table. The upper .5 ft. of the trench has a loose covering of wood chips to allow LFG that has entered the trench to exit and discharge to the atmosphere. There were areas where the final depth of the trench only reached to 1 ft. below the water table. These locations were caused by an unstable sidewall after the groundwater table was reached. The trench was also constructed with horizontal perforated 4 to 6 inch polyethylene tubing placed beneath the wood chips near the top of the stone backfill. The horizontal tubing was installed to allow connection to vertical risers in the event the trench surface is covered at some point in the future with an impervious surface.

LFG monitoring has been performed in accordance with Special Condition 30 from the modified Solid Waste Permit (Response Action Plan, December 10, 2002, Appendix 19). This included monthly monitoring during construction in order to determine if water levels were maintained above the bottom of the trench. Specific protocols were required to be performed in the event groundwater was determined to be below the bottom of the trench.
The following Action Plan items were incorporated for low groundwater levels:

1. Evaluate methane concentrations in nearby perimeter methane monitoring wells and semi-permanent monitoring points. If methane concentrations measured are below site-

specific action levels (25% LEL), the normal frequency methane monitoring will continue and the groundwater level measurements will increase to bi-weekly.

2. When groundwater levels increase to fall back into the envelope of the recovery trench, measurements will return to monthly.
3. If groundwater remains below the trench bottom for one additional bi-weekly monitoring event but nearby well methane levels remain below the action level, groundwater monitoring will continue until such time as routine monitoring can be reinstated.
4. When groundwater is measured below the trench and methane levels are at or above the action level, both groundwater and methane measurements will continue at bi-weekly frequency.
5. If both groundwater and methane remain below the trench bottom and above the action level (respectively) for a second consecutive week, a recommendation for further action will be made to NYSDEC.

During the 2014 Solid Waste Facility issuance several references to continuing monitoring and the documents that would be covered under were made (DEC No. 2-6006-00014/00013 (2-6006-0014/00016 Permit Issuance – Solid Waste Management Facility (Tidal Wetlands), May 21, 2004, Appendix 1). The Ferry Point Park East Post Construction Custodial Care Plan is specifically called out as the governing set of protocols for this. Monthly LFG vent trench monitoring is to be performed during the duration of the permit (October 2013, Appendix 20). Additionally under Special Condition 25 there is continued monthly inspection required for the gas venting trench integrity as well as mulch cover. All repairs are required to be made within two weeks and therefore prior to the next inspection. The mulch cover is required to be replaced each spring. Trench maintenance is also described in the Supplemental Engineering Report, Volume 3, Appendix F (Appendix 20).

Landfill methane monitoring has shown from collection of data within the site to be above general action levels of 25%LEL as well as LEL from within the MSW layer. The resulting measurements between 2008 and 2009 supported the hypothesis that methane was generally present throughout the entire MSW layer rather than just from individual locations. Measurements from the shaping layer above the MSW indicated that concentrations decline rapidly once out of the fill layer. These measurements appear to present a better picture of the landfill gas presence and production because the extraction test performed in 2009 referenced a 2003 Journal of Air &Waste Management with fatal flaws for infiltration of atmospheric air into the landfill. In addition, the 2009 extraction test did not reportedly follow the EPA testing methods and would then incorrectly estimate the presence and production of methane. Testing reportedly used differential pressure at surrounding test wells. EPA specified determining radius of influence based on absolute pressures under static and active extraction conditions. EPA measures ambient air intrusion by percent volume of nitrogen and the testing identified ambient air intrusion by percent oxygen. The conclusions that were reached at that time indicated that atmospheric intrusion noted during the testing would have caused the LFG extraction rate to be significantly higher than actual LFG generation rates within the area of the pilot test. If the entire LFG generation rates were then based on pilot test results, the resulting estimate would be potentially far over the actual LFG generation. Historic data from monitoring indicated that LFG generation rates had sharply declined since the initial

2000 measurements began. The reduction was referenced largely as readings from over 100% LEL to non-detect. While there were a few exceptions, this overall reduction was credited to, among other things, the perimeter venting trench and overall LFG decline. One specific area in the vicinity of MW-0 found to continue to present elevated readings was believed to be impacted from an off-site source.

The Ferry Point Landfill Gas Report (November 2010, Appendix 20) was a summary of various testing across the landfill including flux chamber testing that was used to determine the surface emission rates from the overall landfill. The resulting emission rates were important in making the determinations for receptors and potential impacts of methane and hazardous air pollutants. During this review of testing data and as it was presented in several reports, no methane was detected in field measurements from any of the sample locations. This lack of detectable methane was attributed to rapid attenuation of methane as it passed from the MSW into the shaping material and out into the atmosphere. Hazardous air pollutants in the form of certain VOCs were detected in flux box sampling but all below the reported standards or at levels similar to those identified as background.

Testing within the Community Park was also conducted and methane was also not detected in flux box testing indicating it is not emitted at the ground surface at concentrations that are measureable. This meets NYCRR Part 360 criteria. Measurements from within the top 2 ft. of the shaping material were below 25% of the LEL which also falls within the NYCRR Part 360 requirements for on and off-site structures. Perimeter methane was below Part 360 criteria with the exception of the vicinity of MW-0 along Buttrick Avenue where methane was above 100% LEL. This particular area was beyond the site and consisted of early tidal marsh and pre-1945 MSW filling that is believed to be the contributing source of methane. All measurements from the Community Park vents were below ambient concentrations and well below NYSDEC standards indicating no impact above public exposure thresholds in the vicinity of the vents (Ferry Point Landfill Gas Management Plan, October 2011, Appendix 20).

Modelling of the emissions over several efforts conducted between 1999 to 2010 showed that methane levels were very low and in locations where methane was identified, levels were expected to continue to diminish over time. In order to provide adequate ventilation for enclosed spaces and especially where there is a source of ignition (electrical connections or machinery), mitigation methods would be implemented including Sub Slab depressurization systems (SSDS) at each building. This was further described as conservative as methane concentrations exceeded LEL within the MSW layer back during 2008/2009 in TRC testing of the subsurface. Also during this same monitoring period, methane was not present within the shaping material above the NYCRR Part 360 limit of 25% LEL in any location of proposed buildings. Passive venting of the MSW was recommended as a precautionary measure where no buildings were planned and active venting below or within building footprints.

The Golf Course portion of the Site also includes a sizable irrigation lake and water quality ponds. The purpose for these water bodies covers two positive issues. The first is to help control and limit precipitation and infiltration through the cover material and into the solid waste and the second is to help collect water for controlled release and irrigation. Golf course ponds are typically used for storage and

irrigation regardless of the overall construction. The ponds and lake were each designed to be lined in order to contain as much runoff as possible making it available for irrigation. A gas transmission layer was constructed beneath the irrigation lake. This was connected to perforated piping installed around the lake. The 2009 Part 360 Permit Modification Request included Contract drawings showing this piping as a passive venting system surrounding the lake (Appendix 20).

Water quality ponds were proposed to be lined up to the permanent water level capacity with low permeability low density polyethylene (LDPE) liners with the incorporation of a passive venting system. Ponds where MSW was encountered within the excavation would be lined for the entire volume.

The smaller ponds have also been designed and constructed with a gas transmission layer to promote passive venting. This layer consists of permeable gravel and perforated collection piping extending beneath the ponds and exiting from vent stacks that extend above the breathing zone. The drawings and specifications for the water quality pond liners and passive venting systems were included in the Supplemental Engineering Report Appendices (Appendix 20).

The Community Park portion of Ferry Point Park is located along the northeastern side of the site. This includes walking paths, open space and a single comfort station structure. The LFG components of the Community Park portion consist of 12 LFG vents and an active sub-slab depressurization system beneath the comfort station. Sampling and monitoring of the vents has shown that since at least 2011 there has been no measurable flow in the vents and detectable methane in 3 of the 12 vents. Ranges of methane were between 7.5% to 100% LEL as referenced in the 2011 Ferry Point Landfill Gas Management Plan (Appendix 20).

Twenty-five stand-alone vertical passive vents were installed across the golf course and twelve passive vents were installed in the Community Park. The total area not covered by buildings and water features is approximately 190 acres and the ratio of vents per acre is one per five acres. A greater ratio was applied to the community park which has twelve passive vents in open spaces. All landfill and community park vents operate based on changes to water level, atmospheric pressure and also production of landfill gas. Gas can move through the fill material to a point where it is able to be removed through a vent. Additional smaller gas volumes can move upward into the shaping material to be passed along the surface interface. Based on readings, these concentrations are both low and rapidly diffused indicating the overall volume is much lower.

Following the revision of the active venting proposal for the entire Site, the enclosed buildings and structures were left with the earlier requirement for active venting systems. This was required due to the explosive and accumulating nature of methane and other oxygen displacing gases that exist in landfill conditions as well as being precautionary to prevent the potential of accumulation of explosive gases in these locations. In order to protect occupants and visitors of enclosed structures from accumulation of LFG, active venting of the sub-slab area was recommended. The active sub-slab systems prevent accumulation of gas by actively removing it to the atmosphere and increase the flow of air beneath the buildings. This creates a change in pressure from beneath the slab and the inside of the building which

prevents LFG from entering the building in its more concentrated form. Once LFG leaves the confined space from beneath the landfill and mixes with ambient air, the concentrations are rapidly diminished to levels that are not detectable above background.

The three enclosed buildings (maintenance and two comfort stations) located on the Golf Course and Community Park were required to have SSDS incorporated into the slab design and foundation plan.

Two initial buildings within the golf course (maintenance and comfort station) and one in the community park (comfort station) were recommended to be outfitted with active sub slab venting systems. The maintenance building and comfort station in the golf course and comfort station in the Community Park were each proposed and were outfitted with an active SSDS. The designs were initially submitted in the 2009 DEC Part 360 Permit Modification Request (Appendix 20). Operation and maintenance of the systems (once active) is provided in the Operations, Monitoring and Maintenance Plan and in the Post Construction Custodial Care Plan. Systems will have monitoring, notification controls and remote capabilities in order to allow monitoring of conditions.

Sub slab systems for the three existing structures on site function in a similar fashion by reducing the air pressure beneath the foundation and inducing a slight negative pressure. The negative pressure prevents upward migration, accumulation and infiltration of LFG into the aboveground space. Systems can incorporate varying designs in order to accommodate structural requirements, utilities and layout of the overall building.

The maintenance building and community park systems consist of more typical sub slab systems with perforated piping placed in the backfill material above the municipal solid waste but beneath the foundation slab. Piping is connected to a vacuum blower that exhausts the sub slab gas from a high single point into the atmosphere. The comfort station within the golf course uses a similar manner of equipment with the major difference being the foundation design was modified to include the creation of isolated vaults sandwiched between the lower mat slab and upper floor. No access can be made into those vault spaces and they are filled with low density foam. Vent piping was installed into the sealed vaults and the vapor extraction system effectively creates a higher vacuum (negative pressure) in this vault space than would typically be seen below an open foundation. The piping penetrated the floor in the main portion of the building and was extended into the attic where the blower was mounted. Exhaust was vented through the top of the roof in a dedicated stack. The system was installed in March 2015 and put in operation prior to opening the golf course on April 1, 2015. The comfort system details are also described in the deviations section of this report.

The Maintenance building was constructed with a pile supported slab that covers the entire footprint of the building. The system was constructed as shown on drawings X-001.00 through X-006.00 (Contract drawings for: Construction of a Maintenance Building, A Comfort Station, and One Rain Shelter Within the Ferry Point Golf Course – Contract No. X1256-209M, November 11, 2011, Appendix 4). Prior to pouring the slab, the existing ground surface was prepared with geo-textile fabric, a minimum 12 in. layer of aggregate that is gas permeable to allow flow from all areas beneath the slab into the collection piping,

rigid insulation all covered by an impermeable barrier such as liquid boot or other equivalent. Liquid boot and all barriers used are compatible with the known and identified volatile organics identified at the site. Liquid boot was applied to provide a 60 mil thickness. A special capping material was also placed above the liquid boot to protect it from perforations when the rebar reinforcing rods were set in place. Six inch dia. PVC piping was installed beneath the center of the Maintenance Building floor and this was connected to a vertical riser that would exhaust through the roof. The blower was located as the piping exited the slab into the building and exhaust extended up through the roof. The system was combined with combustible gas meters located in each of the occupied spaces of the building that monitor the atmosphere in each area and are connected to a central alarm. Sub slab monitoring points were also installed along the length of one side of the building to allow for sampling. Each point was installed through the slab into the permeable aggregate and the penetration through the slab was sealed. This system was operational prior to the opening of the golf course as the building was being occupied prior to opening of the golf course.

The system in the comfort station at the Community Park was installed in a similar fashion with a smaller footprint building. This system was a single length piping system installed beneath the foundation using the same construction layering as the maintenance building. The blower and equipment has been completed and the system not yet initiated as that area is not currently open. The system is expected to become active in the very near future.

The comfort station within the golf course was also outfitted with an active system but the slab design for this building was modified so as not to require pile supports. This foundation design included a vapor barrier placed on the prepared subgrade. No MSW was exposed and the fill beneath the building was consistent with shaping material consisting of sand and gravel. A mat slab that was 1.5 ft. thick was poured over the vapor barrier and then 4 ft. vertical walls were formed on the slab to cover the perimeter as well as divide the slab into 4 roughly equal sections. The inner sections of the slab were then filled with solid foam up to just below the top of the walls. Six inch PVC piping similar to that used in the maintenance building sub slab was used and extended to the outer two segments. A vertical riser penetrated the floor inside of the building and was extended up into the attic space where the blower was located. The blower exhaust was directed out of the roof through a vent. The system was designed to create and maintain a lower pressure vacuum on the entire four-chamber sub slab area in order to prevent any sub slab gas from accumulating within that space. Pressure testing of the entire area showed that negative pressure was able to be generated and maintained between the mat slab and floor of the comfort station. This system was installed and began operating prior to opening of the golf course and occupation of the building.

Additional controls installed within the buildings included soil/bentonite collars around utilities servicing the buildings. Foundation penetrations were sealed with these engineering methods to prevent infiltration both into the void spaces and up through foundation slabs where utilities are installed. Additionally, soil/bentonite collars were installed in utility corridors where permeable pipe bedding was used in order to prevent LFG from migrating laterally. All conduit and utility penetrations into floor slabs

were also closed with soil/bentonite seals to prevent those corridors from acting as preferential pathways for LFG migration up into occupied spaces.

The Community Park Comfort Station was constructed in an area of MSW at shallow depths below grade and within the foundation envelope. The foundation was designed to incorporate piles for slab support. All utility trenches that were excavated to the building were installed in either shaping material or if MSW was encountered, it was over excavated and the trench backfilled with granular fill to allow all utilities to be place on bedding that did not contain MSW. During excavation, short duration and dewatering was occasionally necessary. Any water removed during dewatering was pumped a short distance away into existing trenches or other locations.

Off-Site monitoring for methane has been conducted back to the early 2000s. Probing was the primary early monitoring and assessment method. Probes were historically located on Schley, Buttrick, Balcom, Miles and Emerson Avenues. Since 2002, concentrations of methane have been lower than the LEL and this has been used to present the lack of significant source of methane at these off-site sources. In 2002, the Methane Monitoring Study (AKRF) identified the presence of buried MSW beyond the site boundaries. In addition to MSW, soils were logged and identified as fine organic deposits representative of the historic marsh deposits.

OM&M incorporates criteria from NYCRR Part 360-2.17(f) including the following:

- Concentrations of explosive gases must not exceed 25% of the LEL in on-site and off-site structures.
- Concentrations of explosive gases must not exceed LEL at the property boundary.

These requirements are being used to guide mandated additional monitoring under Special Conditions and to govern the construction of all future buildings. Several Special Conditions were included within the 2005 Part 360 Permit (Appendix 1) and are incorporated into regular OM&M and will continue moving forward until they are recommended for elimination as part of the permit.

Special Condition 26 includes the monthly monitoring and inspection of gas venting trenches to evaluate the mulch cover material. This will occur each spring following the winter months.

Special Condition 30 includes the monthly groundwater gauging in the perimeter piezometers in order to evaluate the depth to groundwater with respect to the bottom of the gas venting trench. This measurement will continue through the construction process and that period will be considered complete upon the approval of this Construction Certification Report. The monitoring specifies that id groundwater is measured below the bottom of the trench, DPR will implement Special Conditions monitoring. This is further described below in 5.2.2.

Special Conditions 31 includes specific notification and frequency monitoring if groundwater is identified below the bottom of the trench or if LEL of LFG is noted in adjacent monitoring probes.

Special Conditions 32 and 24 include the bi-weekly monitoring of specific perimeter gas wells and on-site monitoring wells. Results of the monitoring will direct more frequent sampling or monitoring and when monitoring may return to the regular schedule.

Special Condition 37 includes bi-weekly monitoring of the off-site gas monitoring network and the results of this monitoring will direct more frequent monitoring or testing.
Additional parameters were added in 2011 by NYSDEC to include hydrogen sulfide, VOCs and carbon monoxide, all were to be reported in parts per million (PPM) and temperature/pressure.

Work that will continue following construction is included in the Post Construction Custodial Care Plan (Appendix 20). That document covers the efforts beyond this report in order to effectively monitor and report on post construction conditions under the Part 360 Permit.
Monitoring during the entire construction period has been performed in accordance with the Landfill Gas Monitoring Plan and the approval of this Report will serve to conclude all construction monitoring.

The most recent and final documentation submitted under this construction effort is the Ferry Point Park Golf Course Irrigation Pond Vent Boxes Monitoring Final Report submitted in May 3, 2015 (Appendix 20). This Report summarized monitoring data and piping/vent/vale configurations around the irrigation pond at the golf course. The overall purpose for the preparation of the Report was to present information to NYSDEC prior to this Closure Certification Report in order to gain approval to close and remove one vent from the golf course area at vent box #5.

The Report describes and presents the configuration of the piping surrounding the irrigation pond and that the removal of this single vent would not have a detrimental effect on the overall LFG system. The entire lop surrounding the pond collects LFG under the conditions that have been evaluated and calculated over the landfill and that appears to be less than one cubic foot per minute. Based on measurements from specific vent box locations within the overall loop, the LEL readings concentrations indicate two possible theories; that methane may be coming from possibly one area and then slowly migrating or spreading to one or two other vent box areas or it may be concentrated in one area and is also being generated at much lower levels from one or two other areas.

In either case, the volume and rate of methane being generated is similar to much of the remainder of the landfill and while this area has actual vent pipes, the remainder of the landfill is direct vented to the atmosphere through the shaping layer. Removal of the single vent at Vent Box 5 will not impact the collection of methane within the underground passive piping but will only eliminate one outlet location. The valve placement at each box allows for multiple vents to be open or combinations of vents to be either open or closed. In addition, sections of the piping around the irrigation pond can be isolated. There is no specific plan other than to remove the single vent from the overall system and this would not impact the passive systems ability to remove methane from the subsurface.

Landfill and off-site gas monitoring was completed as required by the Permit Special Condition X during construction. The IEM accompanied American Environmental Solutions (AES) during landfill gas

monitoring activities at on-site and off-site locations during the course of construction. Monitoring results were transmitted to the NYSDEC by AES after monitoring was completed and monitoring reports were included in the bi-weekly FMRs for the corresponding periods. Landfill gas monitoring results are attached as Appendix C in each the FMRs which are included as Appendix 6. In addition, refer to Appendix 15 for the spreadsheet compilation of all LFG monitoring results to date in tabular and graphic format.

5.2.1 Bi-Weekly

Methane gas monitoring of the entire site was conducted on a bi-weekly basis. Results of these monitoring events were forwarded directly to the NYSDEC once they were available and summarized in each bi-weekly FMR (Appendix 6). In addition, refer to Appendix 15 for the spreadsheet compilation of all LFG monitoring results to date in tabular and graphic format.

A review of the historic field data associated with the perimeter LFG vent trench monitoring program from 2001 to present was conducted to evaluate LFG trends at the Site relative to the perimeter passive LFG control (Ferry Point Park East Post Construction Custodial Care Plan, October 2013, Appendix 20) and showed the following:

- After the installation of the vent trench in 2001, methane levels in the vicinity of the LFG vent trench tended to decrease significantly within a year in most LFG monitoring wells;

- Methane levels remained relatively low and below regulatory limits from 2002 through 2004, except for a few wells that sporadically exceeded the regulatory limit;

- In 2005, the measured methane levels tended to increase, likely due to the installation of more reliable monitoring points (new monitoring points and repaired wells); and

- Results from 2008-2011 generally indicate relatively consistent levels of methane, with certain limited sporadic increases above regulatory limits.

Methane levels increased for several on-site perimeter wells, on-site interior wells and off-site semi-permanent wells located during the construction period between 2010 and 2014, especially for the wells located in the northeast portion and south portions of Ferry Point Park; however, the levels were significantly lower than the beginning of the monitoring program, and the levels decreased to zero by 2015 with the exception of two on-site perimeter wells (MW-14 and MW-15) located in the southern portion of the golf course, three on-site interior monitoring wells (MW-0, MW-4 and MW-19), and three off-site semi-permanent wells located on Buttrick Avenue (10, 12R and 14R). The last recorded monitoring event on April 10, 2015 (Special Conditions Landfill Gas Monitoring Report, April 13, 2015, Appendix 7) reported the following methane concentrations (% by volume) exceeding the site specific action level in eight locations:

- MW-0 - 4.5%

- MW-4R - 50.2%
- MW-19 - 83.8%
- MW-15 - 6.7%
- MW-14 - 33.4%
- Well 14R (Buttrick Avenue) - 1.6%
- Well 12R (Buttrick Avenue) - 28.6%
- Well 10 (Buttrick Avenue) - 10.1%

5.2.2 Special Conditions

In accordance with Special Conditions #34 and #37c of the November 18, 2005, Permit Modification (Appendix 1), if any individual monitoring point has a bi-weekly reading that equaled or exceeded 100% LEL, or three consecutive bi-weekly readings that were greater than 25% LEL, methane monitoring of these points was conducted on a weekly basis. Monitoring returned to the bi-weekly monitoring schedule once three consecutive readings were each less than the 25% LEL action level. Results of these monitoring events were forwarded directly to the NYSDEC once they were available and summarized in each bi-weekly FMR. In addition, refer to Appendix 15 for the spreadsheet compilation of all LFG monitoring results to date in tabular and graphic format.

5.3 Piezometer Monitoring

On a monthly basis, groundwater elevation measurements were taken and recorded in all piezometer locations along the site perimeter vent trench in accordance with Special Condition 28 of the 2014 Permit. Measurements were manually taken using a portable water level meter. The IEM observed piezometer monitoring in the field and groundwater data was submitted to the NYSDEC. Results of these monitoring events were forwarded directly to the NYSDEC once they were available and summarized in each bi-weekly FMR. Piezometer monitoring results were incorporated into the landfill gas monitoring reports attached as Appendix C in each bi-weekly FMR, which are included as Appendix 6.

5.4 Settlement Plate Monitoring

Short term settlement was performed with plates installed throughout the landfill in order to evaluate settlement and compaction during the fill placement and grading. The majority of the short term plates were installed following the importation of significant amounts of fill material when the areas had been brought near to or at final grade. The 2014 NYSDEC Permit Modification (2-6006-00014/00013) Special Condition #6 required short term settlement monitoring to meet those requirements incorporated in the January 2005 Settlement Evaluation and Long Term Monitoring Plan. Short term monitoring was performed in accordance with the early 2005 Plan and as construction progressed and as per Special Condition #6. Short term settlement plates were either removed or monitoring discontinued when long term monitoring plates were installed in accordance with the revised Permit. Long term settlement plates were installed throughout the landfill in areas shown on the Figure titled Ferry Point Golf Course Settlement Plate Locations 4/11/2012 by KS Engineers, P.C. The locations of the long term plates were identified to be in the same specific vicinity of the short term plates.

The overall Program for monitoring settlement began in 2002 with the construction of 7 instrumented test fills and installation of 6 settlement plates that were located across the site. Test fills varied between 10 to 18 ft. in thickness and the specific locations were placed where future settlement would be most critical (e.g. future green areas and where significant thicknesses of fill were necessary). The majority of the settlement plates were located in the eastern portion of the site at a time when most of the fill had been imported in order to begin monitoring on-going settlement for areas that had been filled for a period of 9 months or longer. Initial settlement monitoring was conducted for a period of over 2 years and monitoring results were transmitted to NYSDEC on a bi-weekly frequency.

Settlement recorded following June 2003 was recorded but noted to have been significantly influenced by the importation if fill and the loading that this had on the areas adjacent to the test fills. Initial settlement was noted to have a range between 3 and 23 inches with the greatest variation in the western section. This was believed to be the result of a significant compressible clay layer near the surface. The recorded measurements were compared by Langan to the estimated values that had been calculated and they were found to be comparative. One positive aspect of this initial measurement and comparison showed the site to be in an optimal character for surcharge as a result of placement of larger fill loads for shorter periods of time in order to maximize the settlement as early as possible and minimize post construction settlement that is a critical issue for the sensitive surface of a golf course.

The resulting settlement analysis provided a recommendation for fill placement and long term predicted settlement. This information and comparison to settlement data is critical in monitoring the underground utilities for maintenance and repair. Piping settlement would result in lower carrying capacity and therefore storm lines were designed to be oversized with welded ends to prevent separation. Sanitary lines were also designed with the additional anticipated settlement incorporated into their long term maintenance. Increased slope, HDPE piping and flexible joints were recommended where piping would pass through areas of different fill thicknesses and therefore a differential in overall settlement would be expected to occur. Recommendations for flexible connections capable of withstanding rotation and extension were made for sewer lines exiting structures.

Settlement over the golf course surface was presented following the initial evaluation and recommendations for anticipated settlement were determined to be within the initially anticipated settlement and possibly sooner for areas where more substantial thicknesses of material were placed. Additional influences on long term settlement will be thickness and depth to the compressible clay layer. The variation in settlement was estimated to be between 3 to 15 inches over a 30 year period. Non-uniform settlement is also anticipated over the life of the golf course due primarily to the variable thickness of imported material and could equal up to 6 inches. Slope stability is not anticipated to be adversely impacted as a result of the long term settlement anticipated at the site.

Areas where significant amounts of fill were identified to be placed, such as the area between the irrigation pond and Hole #1 was required to be placed in a more controlled manner in order to allow the pore pressure to be evenly reduced. This method would prevent slope failures caused by buildup of pore

pressure. Placement of fill was specified to be in 2 ft. lifts per week which would allow for dissipation of pore water in the clay layer.

Special Condition #7 of the revised 2014 NYSDEC Permit specified long term settlement requirements and that they would continue to conform to those established in the earlier permit. Locations of the replacement long term settlement plates shown on the 2012 Figure were referenced and approved as part of the 2014 Permit Modification.

Long term settlement monitoring will be performed at the initially 8 recommended settlement monitoring plates located throughout the golf course for a period of 30 years following completion of construction.

The plates are located in variable subsurface conditions but in general have been placed where the greatest concentrations of fill material have been placed in connection with the thickest compressible soil layers. The locations were also chosen to be adjacent to underground utilities such as water and sewer mains and/or adjacent to green areas where differential settlement is most critical.

The date being used as the construction completion is April 1, 2015. This was described in the March 30, 2015 executed letter between NYSDEC and NYCDPR which referenced the Substantial Completion of Construction Certification allowing the golf course to open on April 1, 2015. The letter states that NYSDEC and NYCDPR agree that the April 1, 2015 opening of the golf course constitutes completion of the filling operation on the Site and construction of the earthwork portion of the Project as contemplated under the NYSDEC Permit (No. 2-6006-00014/00013 and 2-6006-00014/00016). As a result of this completion date, monitoring will continue until April 1, 2045 or until a point that NYSDEC authorizes monitoring to cease if it is prior to April 1, 2045.

Long term settlement will be documented as it is referenced in the Post Construction Custodial Care Plan (October 2013). This includes providing NYSDEC with an annual inspection report certified by a licensed NYS professional engineer. The monitoring will document the following information during the timeframes referenced:

1. Beginning within 60 days of the approval of this Engineering Certification Report and continuing for a period of 5 years, the quarterly monitoring results will be summarized and submitted on an annual basis.
2. Immediately following the initial 5 year period and continuing for an additional 5 years (10 years from the date of Engineering Certification Report approval) monitoring will continue on a reduced bi-annual basis and the results will be summarized annually.
3. Immediately following the year 10 bi-annual report summaries, monitoring will be performed and reported on a reduced annual basis. This annual monitoring and reporting will continue for the duration of the 30 year period or for 20 years.
4. Following the initial 5 year quarterly monitoring period, NYCDPR may petition NYSDEC for a decrease in the monitoring frequency or for cessation of monitoring altogether. In the event that NYSDEC approves terminating the monitoring for any monitoring plates, NYCDPR will evaluate the settlement plates for either abandonment or removal. This evaluation will be performed within

the first year following approval of monitoring cessation. The abandonment or removal documentation will be signed and certified by a NYS licensed professional engineer and provided to NYSDEC within the concurrent post closure reporting period after the completion of the work.

Special Conditions 6 and 7 of the 2014 Permit and the recommendations provided in the Settlement Evaluation and Long-Term Monitoring Plan dated January 26, 2005, prepared by Langan Engineering and Environmental Services, Inc. set forth settlement monitoring requirements related to the placement of fill material across the Site. A copy of the Settlement Evaluation and Long Term Monitoring Plan is included in Appendix 20. Settlement plate monitoring was performed on-site in accordance with the Permit. Settlement monitoring reports are attached as Appendix D in each of the FMRs, which are included as Appendix 6. Monitoring was conducted on-site as follows. Results of these monitoring events were forwarded directly to the NYSDEC once they were available and summarized in each bi-weekly FMR.

5.4.1 Short Term

The short-term settlement monitoring program began in December 2002 with the bi-weekly monitoring of seven test fills and six settlement plates located throughout the Site. Test fills consisted of an engineered soil fill ranging from 10 to 18 feet deep, generally located on-site in areas where significant thicknesses of fill were required. Settlement plates consisted of a subsurface plate beneath a casing and a flush-mount monitoring access port, similar to a monitoring well. Settlement plates that were part of the short-term settlement monitoring program were generally located in areas of the Site already at or close to final grade. The Settlement Evaluation and Long-Term Monitoring Plan recommended the following adjustments be made to the monitoring program during construction:

- Test fills that obstructed construction activities should be replaced with a settlement plate to be monitored near the location of the test fill.

- Settlement plates that needed to be moved for construction purposes should be relocated to the same general area and monitored until long-term monitoring points were installed.

Monitoring at short-term monitoring points was discontinued as required due to interference with ongoing construction. In an email correspondence dated May 1, 2012, included in Appendix H of the 2013 Engineering Report (Appendix 20), the NYSDEC informed NYCDPR that these short-term monitoring locations did not need to be replaced as long as construction at the Site progressed. As construction was concluded in each area of the Site, long-term monitoring plates were to be installed as described below. Short-term settlement monitoring continued to be performed bi-weekly at the Site until October 14, 2013. The design of the long term settlement monitoring points is presented in a January 26, 2005 *Settlement Evaluation and Long-Term Monitoring Plan* prepared by Langan Engineering and Environmental Services, Inc. and outlined in a May 21, 2014 *DEC Permit (DEC No. 2-6006-00014-00013 (SW) & DEC No. 2-6006-00014-00016 (TW))* prepared by New York State Department of Environmental Conservation. These documents outline the long term settlement plate monitoring locations, detail and required monitoring intervals. Monitoring of final settlement plates began on October 30, 2013 and continued throughout the remainder of construction. As previously stated, the monitoring and reporting schedule will be

modified as the post construction period extends into the future. This has been included in the Post Construction Custodial Care Plan (October 2013).

The following summarizes the efforts with respect to conformance to project design documents:

The approved May 21, 2014 *DEC Permit (DEC No. 2-6006-00014-00013 (SW) & DEC No. 2-6006-00014-00016 (TW))* prepared by NYSDEC refers to Appendix H of an October 15, 2013 *Supplemental Engineering Report* for a long term monitoring location plan. Appendix H of the permit which is included as Appendix 20 here, references and includes the April 11, 2012 *Ferry Point Golf Course Settlement Plate Locations* plan prepared by KS Engineers, P.C.

The February 20, 2014 *Ferry Point Golf Course as Built Drawing* prepared by Contractors Line & Grade South, LLC shows the as-built locations of the long term settlement monitoring plates in conformance with the above referenced April 11, 2012 KS Engineers plan. An additional monitoring point between golf course Hole 6 and Hole 7 was added and approved in the May 1, 2012 *Re: Settlement Plates Email* prepared by NYSDEC.

A January 26, 2005 Settlement Evaluation and Long-Term Monitoring Plan prepared by Langan Engineering and Environmental Services, Inc. states that:

> *"These settlement points will be utilized to determine future settlements during the golf course operation. They should be installed once filling operations are completed to within 1 foot of final grades or in other words, during placement of soil cover materials. After their installation, monitoring of the settlement points should be performed once every other month until the construction is complete. Subsequent monitoring should be performed once every 3 months during the first year of golf park operation and once every 6 months for the second year."*

The description above is a deviation from the Post Construction Custodial Care Plan where quarterly monitoring and annual summary reporting will be performed for an initial period of 5 years followed by an opportunity to evaluate and proposed changes. The frequency would without any additional recommendation be reduced to semi-annually following 5 years. This reference accepts a switch to semi-annual monitoring and annual reporting following the first year. This is the only approved change in the settlement monitoring plan outside of the approved 2013 document.

The data from the November 12, 2010 through October 31, 2014 *Fill Management Report No. 242 through No. 346* prepared by Woodard & Curran indicate that settlement plate monitoring was conducted every two weeks in conformance with the minimum requirements of the above referenced monitoring plan.

Monitoring of final settlement plates began on October 30, 2013 and continued throughout the remainder of construction. Results of the monitoring are available in the November 12, 2010 through October 31, 2014 *Fill Management Report No. 242 through No. 346* prepared by Woodard & Curran.

The November 12, 2010 through October 31, 2014 *Fill Management Report No. 242 through No. 346* prepared by Woodard & Curran do not document any non-conformance issues regarding the construction of the long-term settlement monitoring locations. A settlement monitoring plate detail is provided in the January 26, 2005 *Settlement Evaluation and Long-Term Monitoring Plan* prepared by Langan Engineering and Environmental Services, Inc. does not identify any deviations from the location plan and all long term settlement plates installed were specifically located as replacements for short term plates installed earlier during construction

5.4.2 Long Term

The design of the long term settlement monitoring points is presented in a January 26, 2005 *Settlement Evaluation and Long-Term Monitoring Plan* prepared by Langan Engineering and Environmental Services, Inc. and outlined in a May 21, 2014 *DEC Permit (DEC No. 2-6006-00014-00013 (SW) & DEC No. 2-6006-00014-00016 (TW))* prepared by New York State Department of Environmental Conservation. These documents outline the long term settlement plate monitoring locations, detail and required monitoring intervals. Monitoring of final settlement plates began on October 30, 2013 and continued throughout the remainder of construction. As previously stated, the monitoring and reporting schedule will be modified as the post construction period extends into the future. This has been included in the Post Construction Custodial Care Plan (October 2013).

The following summarizes the efforts with respect to conformance to project design documents:

The approved h, 2014 *DEC Permit (DEC No. 2-6006-00014-00013 (SW) & DEC No. 2-6006-00014-00016 (TW))* prepared by NYSDEC refers to Appendix H of an October 15, 2013 *Supplemental Engineering Report* for a long term monitoring location plan. Appendix H of the permit which is included as Appendix 20 here, references and includes the April 11, 2012 *Ferry Point Golf Course Settlement Plate Locations* plan prepared by KS Engineers, P.C

The February 20, 2014 *Ferry Point Golf Course as Built Drawing* prepared by Contractors Line & Grade South, LLC shows the as-built locations of the long term settlement monitoring plates in conformance with the above referenced April 11, 2012 KS Engineers plan. An additional monitoring point between golf course Hole 6 and Hole 7 was added and approved in the May 1, 2012 *Re: Settlement Plates Email* prepared by NYSDEC.

A January 26, 2005 Settlement Evaluation and Long-Term Monitoring Plan prepared by Langan Engineering and Environmental Services, Inc. states that:

> *"These settlement points will be utilized to determine future settlements during the golf course operation. They should be installed once filling operations are completed to within 1 foot of final grades or in other words, during placement of soil cover materials. After their installation, monitoring of the settlement points should be performed once every other month until the construction is complete. Subsequent monitoring should be performed once every 3 months during the first year of golf park operation and once every 6 months for the second year."*

The description above is a deviation from the Post Construction Custodial Care Plan where quarterly monitoring and annual summary reporting will be performed for an initial period of 5 years followed by an opportunity to evaluate and proposed changes. The frequency would without any additional recommendation be reduced to semi-annually following 5 years. This reference accepts a switch to semi-annual monitoring and annual reporting following the first year. This is the only approved change in the settlement monitoring plan outside of the approved 2013 document.

The data from the November 12, 2010 through October 31, 2014 *Fill Management Report No. 242 through No. 346* prepared by Woodard & Curran indicate that settlement plate monitoring was conducted every two weeks in conformance with the minimum requirements of the above referenced monitoring plan.

Monitoring of final settlement plates began on October 30, 2013 and continued throughout the remainder of construction. Results of the monitoring are available in the November 12, 2010 through October 31, 2014 *Fill Management Report No. 242 through No. 346* prepared by Woodard & Curran.

The November 12, 2010 through October 31, 2014 *Fill Management Report No. 242 through No. 346* prepared by Woodard & Curran do not document any non-conformance issues regarding the construction of the long-term settlement monitoring locations. A settlement monitoring plate detail is provided in the January 26, 2005 *Settlement Evaluation and Long-Term Monitoring Plan* prepared by Langan Engineering and Environmental Services, Inc. does not identify any deviations from the location plan and all long term settlement plates installed were specifically located as replacements for short term plates installed earlier during construction

The long term settlement monitoring was performed at the locations shown on the revised Settlement Plate Location Plan and a sketch that includes an additional monitoring point between golf course Hole 6 and Hole 7 included in Appendix H of the Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East Bronx, NY dated May 31, 2012 (Revised August 31, 2012, October 15, 2013) as described in Appendix I of that report. These locations were approved by NYSDEC in an email dated May 1, 2012. The long-term settlement monitoring points were installed as construction was completed in each area of the Site. Upon installation, the long-term settlement plates were monitored in accordance with the criteria set forth in Special Condition 7 of the Permit.

As a component of this Report section the following list of documents were used:

- A January 26, 2005 *Settlement Evaluation and Long-Term Monitoring Plan* prepared by Langan Engineering and Environmental Services, Inc.;
- A May 21, 2014 *DEC Permit (DEC No. 2-6006-00014-00013 (SW) & DEC No. 2-6006-00014-00016 (TW))* prepared by New York State Department of Environmental Conservation;
- A April 11, 2012 *Ferry Point Golf Course Settlement Plate Locations* plan prepared by KS Engineers, P.C.;
- A November 12, 2010 through October 31, 2014 *Fill Management Report No. 242 through No. 346* prepared by Woodard & Curran;
- A undated *additional settlement plate sketch;*
- A February 20, 2014 *Ferry Point Golf Course as Built Drawing* prepared by Contractors Line & Grade

South, LLC; and,

- A May 1, 2012 *Re: Settlement Plates Email* prepared by NYSDEC.

The long term settlement monitoring was performed at the locations shown on the revised Settlement Plate Location Plan and a sketch that includes an additional monitoring point between golf course Hole 6 and Hole 7 included in Appendix H of the 2013 Engineering Report and as described in Appendix I of that report. These locations were approved by NYSDEC in an email dated May 1, 2012, which is included in Appendix H of the 2013 Engineering Report (Appendix 20). The long-term settlement monitoring points were installed as construction was completed in each area of the Site. Upon installation, the long-term settlement plates were monitored in accordance with the criteria set forth in Special Condition 7 of the 2014 Permit.

5.5 Groundwater Monitoring

The overall setting of the Ferry Point Park Site with respect to the groundwater regime can be described as an area covering approximately 220 acres bounded along the waters of the East River to the south, Saint Raymond's Cemetery to the north, Balcom and Emerson Avenues to the east and the Bronx-Whitestone Bridge and ramp to the west. The entire site was a former operating municipal solid waste landfill that ended accepting fill material in the 1960's. The overall landfill footprint extended beyond the boundary of the Ferry point Park Site. The period of operation predated the existence of current Solid Waste Facility design and construction requirements and therefore, no groundwater assessment or survey was performed for the construction or during operations of the landfill.

A review of aerial photography was conducted at the time this report was being prepared. The photographs are available on the New York City public website and include those showing the overall site and surrounding area from a period beginning in 1924 and up until 2012. The earliest photo of 1924 shows nearly the entire footprint of the Ferry point Park Site was formerly open water, existing as a large bay of the East River. A review of the 1951 aerial photograph of the same scale shows the northwest portion of the landfill site was filled with what appears to be very light colored fill material. The photo shows filling operations to be expanding from the northwest corner outward and based upon the extreme contrast in color of existing land and fill material to be sand material possibly sourced from in-water dredge operations. This practice was performed in many other areas of the City at this time when harbor deepening and widening took place from 1940 onward. There were no photos between 1951 and 1996 and so there was no further photographic record in this collection to show the progression of landfilling. This period of filling (pre-1951) predated the DSNY recordkeeping and existence and there would not be any expected record of the placement of this fill in Sanitation Department documents. The existence of these photos is important to present the hydrogeologic origin of site groundwater for comparison to that of other groundwater. This history places the entire Site at the base of a larger drainage basin and in direct connection with the East River system of salt and brackish waters. Using this as the basis for the hydrogeologic model, shallow groundwater at the Site would now be considered to be part of the upland groundwater table as a result of the filling and extension of the shoreline into the river. Groundwater

within the fill material could be expected to be tidally influenced but the inland limit of this influence would be dictated by the fill material, its composition and compaction.

As part of the Volume #1 Application for Modification to the Solid Waste Management Facility Permit for Construction of the Ferry Point Park Recreation Facility Engineering Report (June 30, 2005; Appendix 20), a specific groundwater impact assessment was presented. This was based on a qualitative assemblage of data and information from other related studies but not specifically from a focused groundwater evaluation.
A May 31, 2005 letter on the Influence of Fill Placement on Groundwater prepared by Langan Engineering assessed the impact of fill material on the groundwater (found in Appendix VII of Volume #1 Application for Modification to the Solid Waste Management for Construction of Ferry Point Park Recreation Facility Engineering Report, June 30, 2005, Appendix 20). This was based upon information and conditions gathered during geotechnical evaluations and site history knowledge. The findings presented at that time indicated the development of the Ferry Point Park Site as a golf course would not further impact or change groundwater flow patterns or conditions and would therefore not further impact the East River beyond the existing conditions.

Much of the description presented in the Langan assessment focused on the site development and the addition of engineering controls that would become part of the site. These included: paved path and parking areas, significant stormwater collection systems, site grading to control flow, control devices and systems as well as importation and capping of the entire site with a varied but significant layer of clean cover materials that would all have a positive impact and reduce the amount of surface water filtering through the landfill and into the groundwater. The overall completed site development in the 2005 Engineering Report included a total of 26 acres of impervious area and collection of stormwater in detention facilities (Appendix 20).

A total of 26 piezometers were installed to monitor shallow groundwater along and immediately adjacent to the Landfill Gas passive trench. These piezometers, while used for depth to groundwater measurements are not incorporated into the groundwater evaluation as they were specifically used to assist in the design and monitoring of the LFG vent trench. The principal purpose for the piezometers and their association with the LFG trench was to monitor the level of groundwater to determine if groundwater levels went below the LFG passive recovery trench. Groundwater elevation measurements collected from the piezometer locations along the site perimeter vent trench (Special Condition 28) are addressed in section 5.3 (Piezometer Monitoring) of this report. Section 5.5 addresses the baseline groundwater monitoring requirements established in 2010.

The NYSDEC Permit issued on November 18, 2005 for the construction of the 222 acre golf course did not include a specific requirement for a groundwater monitoring plan outside of the singular focus of monitoring groundwater elevation for landfill gas control in the trenches (Appendix 1). In 2010, NYSDEC requested additional information regarding groundwater conditions and if any new, relevant information was available to verify the conclusions of the geotechnical portion of the 2005 Engineering Report (June

30, 2005, Appendix 20). As no information was available, recommendations were made in 2011 by NYSDEC for the installation of a monitoring well network.

A Technical Memorandum was prepared by Ecology & Environment Engineering, P.C. (E&E) outlining the field procedures for establishing reference point groundwater characterization methods including the installation, development, sampling, well gauging and slug testing of 11 new monitoring wells at the Site (Technical Memorandum re: Field Sampling Procedures for Ferry Point Site – Reference Groundwater Characterization, September 19, 2011, Appendix 20). At the time of monitoring well installation (February 2012), construction activities were well underway and estimated to be 80% complete. The baseline characterization was expected to capture the potential measurable impacts to groundwater. Future monitoring is expected to capture the impacts representing a more complete construction condition

The well installation program included consistent and standard well installation and construction methods, well development, baseline sampling, water level survey and aquifer testing. A figure showing the well construction details and installation elevations and locations is presented as S-H21 dated 11/8/2011. Well construction methods included the installation of shallow 2 inch diameter PVC wells with 10 ft. of slotted screen penetrating into the upper surface of the water table and standard construction finishing. All of the wells were developed and monitored using consistent criteria (turbidity, pH, conductivity and temperature), Table 1 and 2, respectively, Fieldwork Summary Report (as part of Groundwater Characterization) (May 31, 2012; Appendix 20). Each of the newly installed wells was then sampled to establish the initial baseline conditions and each was surveyed to determine groundwater level and flow direction conditions. Basic site hydrogeological information was also characterized during this effort, including direction of flow, groundwater elevation gradients, and flow velocity. Based on the initial measurements, flow direction was found to be relatively consistent in that groundwater flow was in the south-southeasterly direction toward the East River (Figure 1, Fieldwork Summary Report, May 31, 2012, Appendix 20). There was one important item noted from the initial conditions assessment and this was the lack of measureable tidal influence on any of the monitoring wells.

One soil sample was collected from each borehole from the shaping material zone with an additional quality assurance sample collected from MW-02. The soils were sampled for synthetic precipitate leaching procedure (SPLP) semi-volatile organic compounds (SVOCs), PCB/pesticides, metals, and cyanide. Seven metals and one SVOC (phenol) were detected in the 13 samples sent to the laboratory
SPLP analysis. For comparison purposes, these results are shown along with the NYSDEC Technical and Operational Guidance Standard 1.1.1, for Class GA groundwater. Four metals, and one SVOC (phenol) were detected with concentrations higher than the comparison standard (Table 6, Fieldwork Summary Report, May 31, 2012, Appendix 20).

Slug testing was performed on each of the wells to evaluate hydraulic conductivity and while this is not a critical measurement for wells installed within landfill material, it is useful in evaluating the consistency of all wells in the system. The results of the slug testing presented a fairly uniform range of hydraulic conductivities within the landfill material.

The results of the baseline groundwater analysis showed that with the exception of metals, the analytical results were in line with a landfill of this type and age. All metal detections were higher than the NYSDEC Class GA groundwater standard, which was used for comparison purposes. It is noted that these samples had high turbidities (e.g., greater than 1000 NTU) and this likely impacted the metals test results. Phenolics and ammonia leachate parameters were also detected higher than the comparison standard (Table 7, Fieldwork Summary Report, May 31, 2012, Appendix 20). As a result, NYSDEC requested that both filtered and unfiltered samples be collected. If the results were consistent, subsequent events would be completed using filtered samples only for the inorganic parameters (May 8, 2012 Ferry Point Groundwater Characterization Conference Call, May 9, 2012, Appendix 20). Filtered and unfiltered groundwater samples were collected during subsequent events.

NYSDEC also provided DPR with requirements for future groundwater monitoring (e.g., Post Construction Monitoring) in their FPP Groundwater Characterization Monitoring Objective on May 8, 2012 (Appendix 20). The objective included the following requirements: reference point/background characterization in three quarterly rounds of sampling for all parameters listed in 6 NYCRR Subpart 360-2.11 baseline parameters. Following completion of the characterization sampling, baseline sampling would continue on a biannual basis after the initial three quarterly rounds until the FPP landfill end use (golf course) is operational. Table 5-X below summarizes the reference point/background characterization events.

Table 5-1. Summary of Reference Point/Background Characterization Events

Sampling Frequency	Wells Sampled	Status
Quarterly 1	GMW-1 – GWM-11	Completed February 2012
Quarterly 2	GMW-1 – GWM-11	Completed May 2012
Quarterly 3	GMW-1 – GWM-11	Completed August 2012
Bi-Annual	GMW-1 -GMW-11	Completed March 2013
Bi-Annual	GMW-1, GMW-2, GMW-3, GMW-4, GMW-5, GMW-6, GMW-7, GMW-8, and GMW-10	Completed March 2014
Bi-Annual	GMW-2, GMW-3, GMW-4, GMW-5, GMW-6, GMW-7 and GMW-8	June 20, 2014
	GMW-1, GMW-7, GMW-10, and GMW-11	July 31, 2014

The three quarterly sample events were completed without modification. The Bi-Annual events were modified following the March 2013 event due to construction of the golf course which limited access to the Site. The modifications include the following:

- No September 2013 Bi-Annual sample event.
- No sample was collected from GMW-9 (well was dry) and GMW-11 (access) during the March 2014 sample event.
- The second biannual sample event for 2014 was split into two events completed in June and July. GMW-9 was not sampled. Groundwater samples were collected from the site on July 22, 2014; however the samples were not analyzed due to compliance issues with the Standard Operating Procedures.

Table 5-1 presents the overall groundwater and analysis date for monitoring wells GMW-1 through GMW-11 covering the period between February 2012 through July 2014 and are consistent with the baseline sample events: metals, phenolics and ammonia compounds, isolated and sporadic VOCs (except for chlorobenzene detected in well GMW-01 and GMW-06 during multiple events) and SVOCs (primarily PAHs) were detected above the NYSDEC Technical and Operational Guidance Class GA Groundwater Criteria. The Class GA Groundwater Criteria were used for screening purposes as groundwater is not used for potable resources. The results of the filtered (dissolved) metals samples are significantly lower than the non-filtered metals samples and in most cases exceedances of non-filtered samples are non-detect or below the Class GA Groundwater Criteria in the filtered samples.

In accordance with the Post Construction Custodial Care Plan (Appendix 20), groundwater monitoring will be performed at all 11 permanent monitoring wells throughout the golf course. Approval of this Closure Certification Report signifies the commencement of operations at the golf course beginning the period of post construction monitoring. Sampling will be performed on an annual basis with collection and analysis of groundwater for those constituents listed in 6 NYCRR Part 360-2.11 routine parameters. This sampling information and data will be summarized and included with the overall annual facility monitoring and inspection report. Monitoring and reporting will begin 60 days following the approval of this closure report and will continue for a period of three years.

Following the completion of the initial 3 year post-operations monitoring, DPR may submit documentation to NYSDEC to request a reduction in sampling or complete cessation of sampling. The initial 3 year period will form the data set to be used in the event a reduction or change in monitoring is requested. The goal of the monitoring will be to provide data showing if the park adversely impacts water quality with respect to leachate quality or quantity and to compare the 2013 permit performance criteria to existing and current conditions.

Should a request for modification or cessation be approved, monitoring wells will be assessed for abandonment or removal within a 1 year period following the ending point of monitoring. Closure documentation will be provided by a New York Professional Engineer during the same annual reporting period.

Upon commencement of operation of the golf course, the frequency of groundwater monitoring changes to annual with samples being analyzed for all constituents listed in 6 NYCRR Subpart Part 360-

2.11 routine parameters and parameters of concern identified during the reference point characterization period. The golf course began operation in April 2015 and post construction monitoring will be initiated in September 2015. Post construction groundwater monitoring is discussed in detail in Section 5.7.4.

Design documents for the groundwater monitoring wells are included in Appendix G.2 of the 2013 Engineering Report (Appendix 20). An initial sampling event was completed in February 2012 and included the testing activities described below.

Groundwater monitoring results are attached in Appendix 15.

5.6 Deed Restriction

Special Condition 32 of the 2014 Permit requires that the Permittee executes and files a NYSDEC approved deed restriction, which shall run with the land in perpetuity, and shall recite and require compliance with the Part 360 Permit's provisions as regards to the custodial care requirements described in Appendix I of the 2013 Engineering Report (Appendix 20).

NYCDPR is in the process of reviewing the language in Attachment A transmitted with the 2014 Permit, and will use this language as the model for the deed restriction. NYCDPR will contact the NYSDEC in the event NYCDPR has any proposed additions, deletions, and/or revisions to the general text of Attachment A.

5.7 Post Construction Monitoring

Post construction monitoring of the Golf Course, Community Park, and Waterfront Park is the responsibility of NYCDPR and will be completed as required by the Permit. Post closure monitoring will be completed in accordance with the plans set forth in Ferry Point Park East Post Construction Custodial Care Plan dated October 2013 included as Appendix I of the 2013 Engineering Report (Appendix 20).

The following table includes each monitoring component, the frequency, and the duration of monitoring dependent upon the cessation of activity:

Component	Frequency	Duration
Final Cover System	Quarterly	5 years
LFG System	Quarterly	5 years
Infrastructure	Bi-Annually Annually	10 years 15 years
Groundwater Monitoring	Annually	3 years*
Long Term Settlement Plates	Quarterly	5 years*
Parking Lot Asphalt Cover (April & October)	Bi-Annually Annually	5 years* 20 years*

*Denotes Dependent on Cessation of Activity

NYCDPR will not be performing post-construction monitoring for the Waterfront Park portion of the Site until construction is complete and approved, and will restrict public access until such time.

NYCDPR is in the process of engaging a full service environmental firm to conduct the post construction monitoring requirements and will complete the post construction monitoring required to comply with the Permit in accordance with the Post Construction Custodial Care Plan and as follows.

5.7.1 Golf Course Operations

The Site will be operated as part of the New York City Department of Parks and Recreation system. The Community Park and the Waterfront Park will be operated and maintained by the NYCDPR Borough of the Bronx Operations and Maintenance division or an appointed representative. NYCDPR has entered into a contract with a golf course concessionaire, Trump Ferry Point LLC to implement post construction care necessary to maintain the Golf Course for operational purposes. Golf Course maintenance and operations exclude those requirements specific to post construction monitoring and maintenance of existing environmental conditions and infrastructure as installed by NYCDPR and specifically defined in this report as being landfill gas systems, groundwater monitoring, and long-term settlement plates.

5.7.2 Landfill Gas Monitoring

NYCDPR will implement post construction monitoring necessary to fulfill the requirements of the Post Construction Custodial Care Plan for landfill gas monitoring. The landfill gas monitoring program includes monitoring for on-site and off-site landfill gas wells, piezometers, passive vent trench, passive vents, sub-slab depressurization systems, and Irrigation Lake venting system. Any necessary repairs or maintenance required as a result of inspection and monitoring activities will be the responsibility of NYCDPR or an appointed representative.

The Site's landfill gas management system will be inspected and monitored in accordance with the Operations, Monitoring, & Maintenance ("OM&M") actions presented in Section 6 of the Landfill Gas Management Plan ("LFGMP") located in Appendix F.1 of the 2013 Engineering Report (Appendix 20).

Monitoring and inspection will commence concurrently within 60 days of the approval of this construction certification report unless otherwise noted within the OM&M plan. Adjustments to monitoring frequencies will be requested of NYSDEC upon meeting the performance criteria thresholds identified in Section 6.3.4.2 of the LFGMP. NYCDPR will submit a request with supporting documentation to NYSDEC 30 days prior to the desired date of the proposed change in monitoring. NYCDPR will not change monitoring frequencies until the request has been approved.

5.7.3 Long Term Settlement Monitoring

NYCDPR will implement post construction monitoring necessary to fulfill the requirements of the Post Construction Custodial Care Plan for nine settlement monitoring plates on the Golf Course.

Monitoring will commence concurrently within 60 days of the approval of this construction certification report for a period of three years. Based on the results of the initial five years of monitoring, NYCDPR may

petition for decreased monitoring or a cessation in monitoring frequencies. NYCDPR will not change monitoring frequencies until the request has been approved.

5.7.4 Groundwater Characterization Monitoring

NYCDPR will implement post construction monitoring to fulfill the requirements of the Ferry Point Park East Post Construction Custodial Care Plan (October 2013). Groundwater monitoring will be performed at the eleven well locations located within the golf course.

Upon commencement of operation of the golf course (April 2015), groundwater sampling will take place annually with samples being analyzed for constituents listed in 6 NYCRR Subpart Part 360-2.11 routine parameters. The results of the groundwater sampling will be presented in a groundwater monitoring report and a summary will be submitted to NYSDEC as a part of the annual monitoring and inspection report. Monitoring and inspection will commence concurrently within 60 days of the approval of the construction certification report for a period of three years with the goal of demonstrating whether operation of the park adversely impacts on water quality with respect to leachate quality or quantity, and whether operation of the park meets the performance criteria established in the Permit.

Post Closure monitoring is anticipated to be conducted on the following schedule:

Sampling Frequency	Requirement	Wells Sampled	Status
Annual - Year 1	Post-Construction Monitoring	GMW-1 – GWM-11	Anticipated September 2015
Annual - Year 2	Post-Construction Monitoring	GMW-1 – GWM-11	Anticipated September 2016
Annual Year 3	Post-Construction Monitoring	GMW-1 – GWM-11	Anticipated September 2017

Upon completion of 3 years of post-operation annual routine groundwater sampling, DPR may submit documentation to NYSDEC in furtherance of a request to reduce or cease groundwater sampling at the Ferry Point Park golf course (Ferry Point Park East Post Construction Custodial Care Plan, October 2013). The Groundwater monitoring and sampling program will cease either at the three year completion or ten years from the date of the initial groundwater sampling event. When the request for cessation is accepted, the groundwater monitoring wells will be evaluated for either abandonment or removal within the first year of the cessation of monitoring. The abandonment or removal documentation, signed and

certified by a licensed NYS Engineer will be provided to DEC within the concurrent post closure reporting period after the completion of the work.

Monitoring and inspection will commence concurrently within 60 days of the approval of this construction certification report for a period of three years. Upon completion of three years of post-operation annual routine groundwater sampling NYCDPR may submit documentation to the NYSDEC in furtherance of a request to reduce or cease groundwater sampling at the golf course. NYCDPR agrees to perform operational groundwater sampling, data analysis and reporting for a minimum of three years after construction, with the goal of demonstrating whether operation of the park adversely impacts water quality with respect to leachate quality or quantity, and whether operation of the park meets the performance criteria established in the Permit. NYCDPR will not change monitoring frequencies until the request has been approved.

5.7.5 Final Cover System

The integrity of the final cover system will be inspected routinely by NYCDPR, or their duly appointed representative, to fulfill the requirements of the Post Construction Custodial Care Plan. Inspections and maintenance will be completed in association with the Maintenance Guidelines for Trump Golf Links at Ferry Point Park included in Appendix I of the 2013 Engineering Report (Appendix 20).

Monitoring and inspection will commence within 60 days of the submittal of this construction certification report and then undertaken annually within 30 days of the submittal of the initial report. NYCDPR agrees to a rolling five-year plan, whereby NYCDPR may petition to modify or terminate the final cover inspection requirements by demonstrating that the integrity of the final cover system has been maintained in accordance with performance criteria established in the Permit.

5.7.6 Parking Lot Asphalt Cover (Consent Order)

During 2010, fill material from a JFK Airport source site was brought on-site and placed in seven different stockpiles. The material was believed to be in conformance with permit conditions. However, the material was found to be in violation of 2005 Permit Special Conditions 1, 9, and 16, during NYSDEC and IEM inspections. On January 10, 2011, NYCDPR signed an Administrative Order on Consent (Consent Order), Case No. R2-20100521-172, related to this fill material, which was used to construct the base of the clubhouse and maintenance facility parking lots.

Specific requirements within the Consent Order as they pertain to post construction operations are as follows:

From Consent Order No R2-20100521-172: “Attachment “A” Proposed Handling of Ferry Point Park Soil Stockpile, Item 6, Once the asphalt top course is installed, the asphalt surfaces of the clubhouse and maintenance facility parking lots will be inspected during April and October every year by a licensed professional engineer (“engineer”) who is registered to practice in New York State. Within thirty days (30) days of such inspections, the engineer will submit to the Department a stamped and certified written detail report, including photo documentation, regarding the condition of the asphalt surfaces and their

adequacy, including photo documentation, regarding the condition of the asphalt surfaces and their adequacy to effectively function as covers. A description of any needed repairs will be included in the engineer's report.

Item 7, any repairs deemed necessary by the engineer must be completed by New York City Department of Parks and Recreation ("NYC Parks") within fifteen (15) days of the notification by the Department to NYCDPR to begin such repairs. A certification, including supporting written and photo documentation must be submitted by NYC Parks within fifteen (15) days after completion of repairs."

6 Summary

Construction activity at the Site began in July 2000 and concluded in July 2014 with physical completion of the Golf Course. Although the Golf Course construction is complete, some incidental work continues to occur at the Site associated with specific improvements necessary for golf course operations by the golf course concessionaire. Construction activity included clearing and grubbing, excavation, grading, importation of fill material, construction of the Community Park and Golf Course and associated appurtenances, installation of site utilities and infrastructure, installation of plantings, and installation of asphalt parking lot. A representative of the NYCDPR was present during all construction activities. To the best of our knowledge, a representative of the IEM was present during all earth moving and soil importation activities. For this project, fill importation followed the Permit requirements and resulted in a large scale earthwork fill conducted in general accordance with NYSDEC requirements as documented in the daily, bi-weekly, and quarterly reports and as summarized herein.

7 Certification

Certification Statement

I, Robert Iaropoli, PE, LS, an employee of the New York City Department of Parks and Recreation, exercising independent judgment and discretion do hereby certify that this Final Construction Certification Report was prepared under my direction and supervision. This Final Construction Certification Report was prepared in accordance with the NYSDEC requirements in 6 NYCRR Part 360, the current Part 360 Permit and approved Part 360 Permit Modification documents. The information contained herein is based upon: 1) Work which I have personally inspected both during and after construction from November 2012 to date; 2) Information provided to me by those directly employed by or under contract with the New York City Parks and Recreation and the New York City Department of Design and Construction as construction project managers;3) Design Consultants; 4) Contractors responsible for construction pursuant to their contracts except as indicated; and 5) third parties, such as manufactures, suppliers, etc., whose materials have not been personally verified by me for accuracy and/or adequacy but believe them to be true and accurate[4].

STATE OF NEW YORK ★ ROBERT F. IAROPOLI ★ 093008 LICENSED PROFESSIONAL ENGINEER

Oct. 19th 2015

Robert Iaropoli, PE, LS

Date

New York City Department of Parks and Recreation

[4] Certification means a statement of professional opinion based upon investigation, analysis, knowledge and belief that is stated to be true and accurate. 6 NYCRR Part 360-1.2(b) 24.

8 Delineation Page

Delineation Page

Construction Certification Report
Ferry Point Park Golf Course and Community Park

The drawings, analysis and certification of the fill operation performed by the Independent Environmental Monitor, Woodard & Curran, 709 Westchester Avenue - Suite L2, White Plains, NY 10604 incorporated in this Construction Certification Report have not been verified.

LOCATION PLAN NTS

CITY OF NEW YORK
PARKS & RECREATION
OLMSTED CENTER
FLUSHING MEADOWS - CORONA PARK
FLUSHING, NEW YORK 11368

SANFORD GOLF DESIGN
4238 WEST MAIN STREET
JUPITER, FLORIDA 33458

PARKS & RECREATION

CHARLES MCKINNEY — CHIEF OF DESIGN

THERESE BRADDICK — DEPUTY COMMISSIONER

ADRIAN BENEPE — COMMISSIONER

CONTRACT DRAWINGS FOR

CONSTRUCTION OF A TOURNAMENT QUALITY GOLF COURSE BOUNDED BY THE EAST RIVER, BALCOM AVENUE, MILES AVENUE AND THE WHITESTONE BRIDGE APPROACH, IN FERRY POINT PARK, BOROUGH OF THE BRONX

CONTRACT NO. X126-109M

X126-109M

LIST OF DRAWINGS

SHT	DRAWING TITLE	DRAWING
1-56.	TOPOGRAPHIC SURVEY	
57.	STRATEGY PLAN	GC.1
58.	STAKING PLAN	GC.2
59.	GRASSING PLAN	GC.6
60.	GRASSING PLAN	GC.7
61.	BUNKER STUDY	GC.8
62.	CONSTRUCTION DETAILS	GC.9
63.	CONSTRUCTION DETAILS	GC.10
64.	CONSTRUCTION DETAILS	GC.11
65.	IRRIGATION PLAN	IRR.1
66.	IRRIGATION PLAN	IRR.2
67.	IRRIGATION PLAN	IRR.3
68.	IRRIGATION PLAN	IRR.4
69.	IRRIGATION PLAN	IRR.5
70.	IRRIGATION PLAN	IRR.6
71.	IRRIGATION PLAN	IRR.7
72.	IRRIGATION DETAILS	IRR.8
73.	IRRIGATION DETAILS	IRR.9
74.	IRRIGATION DETAILS	IRR.10
75.	LANDSCAPE & FENCE LAYOUT	L1.1
76.	LANDSCAPE & FENCE LAYOUT	L1.2
77.	LANDSCAPE & FENCE LAYOUT	L1.3
78.	LANDSCAPE & FENCE LAYOUT	L1.4
79.	LANDSCAPE & FENCE LAYOUT	L1.5
80.	LANDSCAPE & FENCE LAYOUT	L1.6
81.	LANDSCAPE & FENCE LAYOUT	L1.7
82.	LANDSCAPE & FENCE LAYOUT	L1.8
83.	LANDSCAPE & FENCE LAYOUT	L1.9
84.	LANDSCAPE DETAILS	L1.10
85.	REMOVALS & STAGING PLAN	C1.1
86.	REMOVALS & STAGING PLAN	C1.2
87.	REMOVALS & STAGING PLAN	C1.3
88.	REMOVALS & STAGING PLAN	C1.4

LIST OF DRAWINGS

SHT	DRAWING TITLE	DRAWING
89.	REMOVALS & STAGING PLAN	C1.5
90.	REMOVALS & STAGING PLAN	C1.6
91.	REMOVALS & STAGING PLAN	C1.7
92.	REMOVALS & STAGING PLAN	C1.8
93.	REMOVALS & STAGING PLAN	C1.9
94.	LAYOUT PLAN	C2.1
95.	LAYOUT PLAN	C2.2
96.	LAYOUT PLAN	C2.3
97.	LAYOUT PLAN	C2.4
98.	LAYOUT PLAN	C2.5
99.	LAYOUT PLAN	C2.6
100.	LAYOUT PLAN	C2.7
101.	LAYOUT PLAN	C2.8
102.	LAYOUT PLAN	C2.9
103.	SITE DETAILS	C2.10
104.	GRADING PLAN	C3.1
105.	GRADING PLAN	C3.2
106.	GRADING PLAN	C3.3
107.	GRADING PLAN	C3.4
108.	GRADING PLAN	C3.5
109.	GRADING PLAN	C3.6
110.	GRADING PLAN	C3.7
111.	GRADING PLAN	C3.8
112.	GRADING PLAN	C3.9
113.	UTILITY PLAN	C4.1
114.	UTILITY PLAN	C4.2
115.	UTILITY PLAN	C4.3
116.	UTILITY PLAN	C4.4
117.	UTILITY PLAN	C4.5
118.	UTILITY PLAN	C4.6
119.	UTILITY PLAN	C4.7
120.	UTILITY PLAN	C4.8
121.	UTILITY PLAN	C4.9

LIST OF DRAWINGS

SHT	DRAWING TITLE	DRAWING
122.	DRAINAGE DETAILS	C4.10
123.	DRAINAGE DETAILS	C4.11
124.	DRAINAGE DETAILS	C4.12
125.	STORM DRAIN STRUCTURE TABLES	C4.13
126.	STORM DRAIN STRUCTURE TABLES	C4.14
127.	NYCDEP SITE CONNECTION DETAILS	C4.15
128.	NYCDEP SITE CONNECTION DETAILS	C4.16
129.	NYCDEP SITE CONNECTION DETAILS	C4.17
130.	SANITARY SEWER DETAILS & NOTES	C4.18
131.	WATER MAIN DETAILS & NOTES	C4.19
132.	EROSION/ SEDIMENT CONTROL PLAN	C5.1
133.	EROSION/ SEDIMENT CONTROL PLAN	C5.2
134.	EROSION/ SEDIMENT CONTROL PLAN	C5.3
135.	EROSION/ SEDIMENT CONTROL PLAN	C5.4
136.	EROSION/ SEDIMENT CONTROL PLAN	C5.5
137.	EROSION/ SEDIMENT CONTROL PLAN	C5.6
138.	EROSION/SEDIMENT CONTROL PLAN	C5.7
139.	EROSION/SEDIMENT CONTROL PLAN	C5.8
140.	EROSION/SEDIMENT CONTROL PLAN	C5.9
141.	EROSION CONTROL DETAILS	C5.10
142.	EROSION CONTROL DETAILS	C5.11
143.	EROSION CONTROL DETAILS	C5.12
144.	EROSION CONTROL NOTES	C5.13
145.	ELECTRICAL NOTES, LEGEND & ABBRV.	E1.1
146.	ELECTRICAL SITE PLAN & DETAILS	E1.2
147.	ELECTRICAL ONE LINE DIAGRAMS	E2.1
148.	ELECTRIC DETAILS NO.1	E3.1
149.	ELECTRIC DETAILS NO.2	E3.2
150.	DRIVING RANGE LIGHTING DETAILS NO.3	E3.3
151.	ELECTRICAL/ PLUMBING SITE PLAN	EP4.1
152.	ELECTRICAL/ PLUMBING SITE PLAN	EP4.2
153.	ELECTRICAL/ PLUMBING SITE PLAN	EP4.3
154.	ELECTRICAL/ PLUMBING SITE PLAN	EP4.4

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SHT	DRAWING TITLE	DRAWING
155.	ELECTRICAL/ PLUMBING SITE PLAN	EP4.5
156.	ELECTRICAL/ PLUMBING SITE PLAN	EP4.6
157.	ELECTRICAL/ PLUMBING SITE PLAN	EP4.7
158.	ELECTRICAL/ PLUMBING SITE PLAN	EP4.8
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160.	PLUMBING NOTES, LEGEND, SITE PLAN	P1.1
161.	GAS RISERS & VALVE BOX DETAILS	P1.2
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163.	TEST BORING LOCATION PLAN	B1.2
164.	TEST BORING LOCATION PLAN	B1.3
165.	TEST BORING LOCATION PLAN	B1.4
166.	TEST BORING LOCATION PLAN	B1.5
167.	TEST BORING LOCATION PLAN	B1.6
168.	TEST BORING LOCATION PLAN	B1.7
169.	TEST BORING LOCATION PLAN	B1.8
170.	TEST BORING LOCATION PLAN	B1.9
171.	TEST BORING LOG PLAN	B2.1
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173.	TEST BORING LOG PLAN	B2.3
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175.	TEST BORING LOG PLAN	B2.5
176.	TEST BORING LOG PLAN	B2.6
177.	TEST BORING LOG PLAN	B2.7
178.	TEST BORING LOG PLAN	B2.8
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180.	TEST BORING LOG PLAN	B2.10
181.	DEEP DYNAMIC COMPACTION PLAN	B3.1
182.	DEEP DYNAMIC COMPACTION PLAN	B3.2
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185.	DEEP DYNAMIC COMPACTION PLAN	B3.5
186.	DEEP DYNAMIC COMPACTION PLAN	B3.6
187.	DEEP DYNAMIC COMPACTION PLAN	B3.7

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188.	DEEP DYNAMIC COMPACTION PLAN	B3.8
189.	DEEP DYNAMIC COMPACTION PLAN	B3.9
190.	PREDICTED SETTLEMENT PLAN	B4.1
191.	COVER LAYER MATERIAL PLAN	H1.1
192.	COVER LAYER MATERIAL PLAN	H1.2
193.	COVER LAYER MATERIAL PLAN	H1.3
194.	ENVIRONMENTAL PLAN	H2.1
195.	ENVIRONMENTAL PLAN	H2.2
196.	ENVIRONMENTAL PLAN	H2.3
197.	ENVIRONMENTAL PLAN	H2.4
198.	ENVIRONMENTAL PLAN	H2.5
199.	ENVIRONMENTAL PLAN	H2.6
200.	ENVIRONMENTAL PLAN	H2.7
201.	ENVIRONMENTAL PLAN	H2.8
202.	ENVIRONMENTAL PLAN	H2.9
203.	ENVIRONMENTAL DETAILS	H2.10
204.	ENVIRONMENTAL DETAILS	H2.11
205.	ENVIRONMENTAL DETAILS	H2.12
206.	ENVIRONMENTAL DETAILS	H2.13
207.	ENVIRONMENTAL DETAILS	H2.14
208.	WETLAND PLANTING PLAN	WET.1

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ENVIRONMENTAL LEGEND

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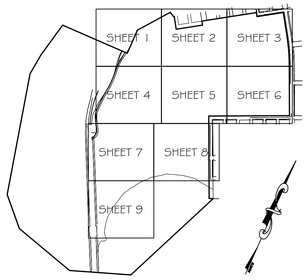

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City of New York Parks & Recreation

Olmsted Center
Flushing Meadows Corona Park
Flushing, New York 11368

PROJECT TITLE
CONSTRUCTION OF A TOURNAMENT QUALITY GOLF COURSE BOUNDED BY THE EAST RIVER, BALCOLM AVENUE, MILES AVENUE AND THE WHITESTONE BRIDGE APPROACH, IN FERRY POINT PARK, BOROUGH OF THE BRONX

DRAWING TITLE
ENVIRONMENTAL PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
TRC ENGINEERS, INC.	HENRY DELGADO / JOEL ELLA	STEVEN MEERSMA, P.E.
REVIEWED-TEAM LEADER DPR	FORESTRY DPR	APPROVED-DIRECTOR DPR
RAYMUNDO GOMEZ	JAMES LeMYRE	DAVID CARLSON, RLA
APPROVED-CHIEF OF DESIGN DPR	APPROVED-CHIEF ENGINEER DPR	CONTRACT NO. DPR
CHARLES MCKINNEY	JOHN NATOLI, PE	X126-109M

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ENVIRONMENTAL LEGEND

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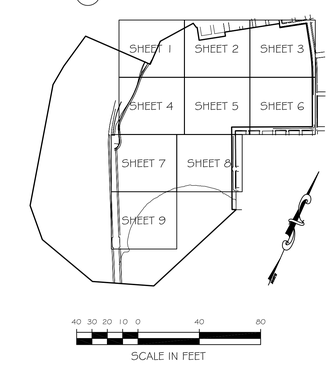

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03/06/2009	1"=40'	H2.2	

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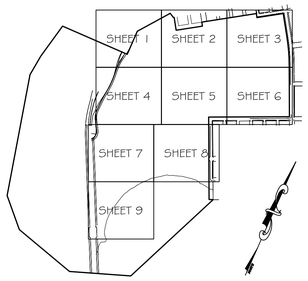

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DRAWING TITLE
ENVIRONMENTAL PLAN

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03/06/2009	1"=40'	H2.3	

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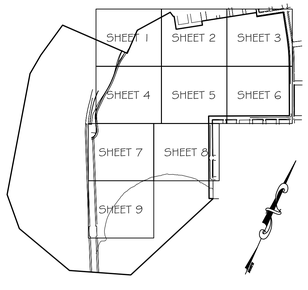

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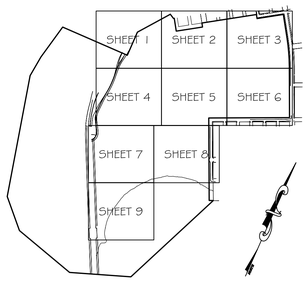

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City of New York
Parks & Recreation

Olmsted Center
Flushing Meadows Corona Park
Flushing, New York 11368

PROJECT TITLE
CONSTRUCTION OF A TOURNAMENT QUALITY GOLF COURSE BOUNDED BY THE EAST RIVER, BALCOLM AVENUE, MILES AVENUE AND THE WHITESTONE BRIDGE APPROACH, IN FERRY POINT PARK, BOROUGH OF THE BRONX

DRAWING TITLE ENVIRONMENTAL PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
TRC ENGINEERS, INC.	HENRY DELGADO / JOEL ELLA	STEVEN MEERSMA, P.E.
REVIEWED-TEAM LEADER DPR	FORESTRY DPR	APPROVED-DIRECTOR DPR
RAYMUNDO GOMEZ	JAMES LeMYRE	DAVID CARLSON, RLA
APPROVED-CHIEF OF DESIGN DPR	APPROVED-CHIEF ENGINEER DPR	CONTRACT NO. DPR
CHARLES MCKINNEY	JOHN NATOLI, PE	X126-109M

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DATE	SCALE	DRAWING NO.	SHEET NO. 198 OF 208 SHEETS
03/06/2009	1"=40'	H2.5	

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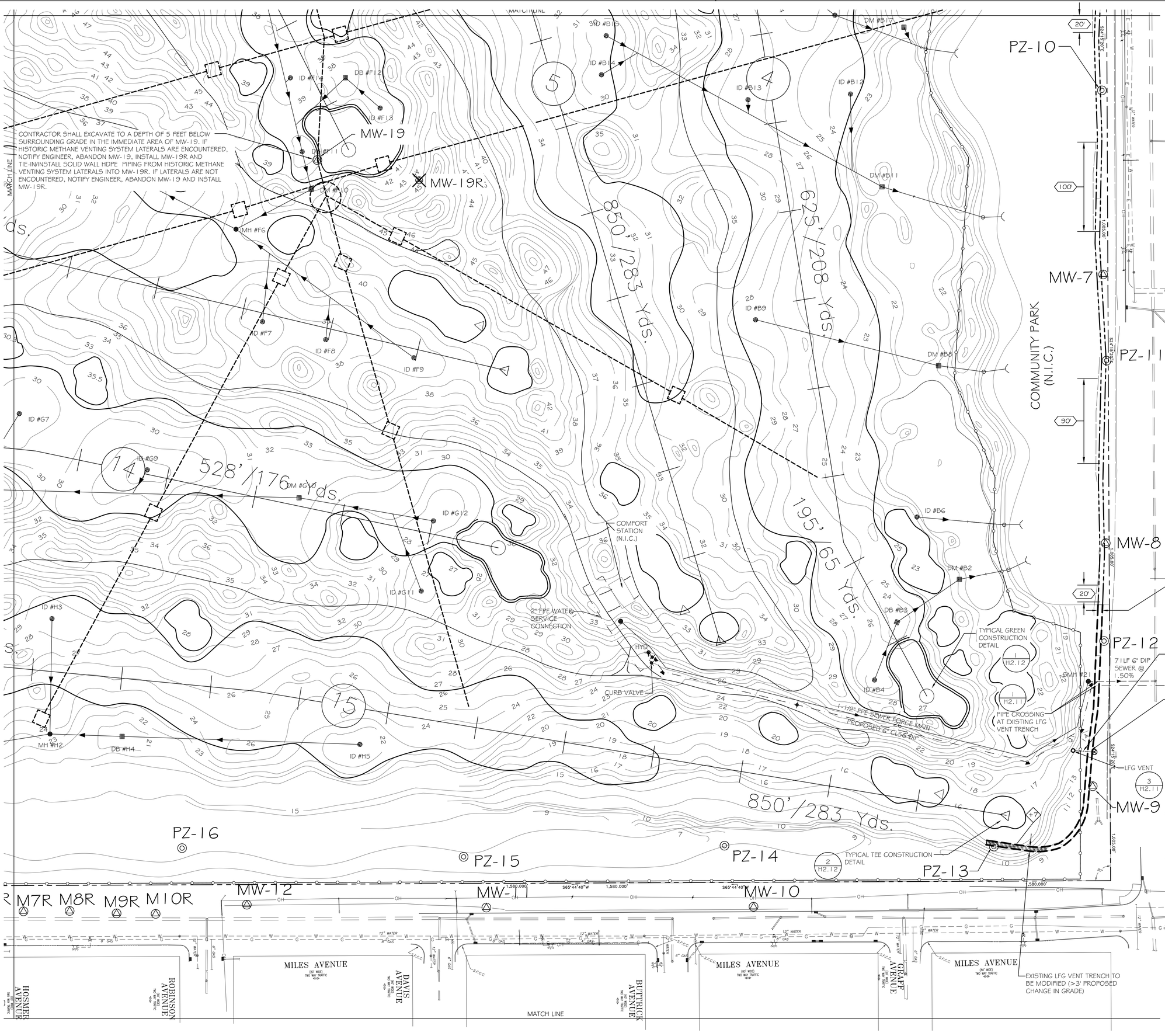

ENVIRONMENTAL LEGEND

- LIMITS OF FLEXIBLE MEMBRANE LINER AND APPROXIMATE LOCATION OF PIPING TRENCH
- FENCE
- LFG VENT
- CONNECTION TO EXISTING LFG VENT TRENCH
- FUSION WELDED POLYETHYLENE PIPE
- MW-1A — EXISTING GAS MONITORING WELL
- PZ-07 — EXISTING PIEZOMETER
- PROPOSED REPLACEMENT LOCATION OF MW-19 (TO BE CONSTRUCTED)
- X — APPROXIMATE GRADE CHANGE BETWEEN EXISTING AND PROPOSED ELEVATION
- X — LENGTH AND APPROXIMATE LOCATION OF LFG VENT TRENCH MULCH COVER TO BE REPLACED IN SPRING 2010 AND 2011
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- EXISTING LFG TRENCH TO BE MODIFIED (< 3' PROPOSED CHANGE IN GRADE)
- EXISTING LFG TRENCH TO BE MODIFIED (> 3' PROPOSED CHANGE IN GRADE)
- 2 / H1.5 — DETAIL NUMBER / CUSTOM DETAIL IN CONTRACT / DRAWING NUMBER
- STORM DRAIN LIQUID FLOW DIRECTION
- ENVIRONMENTAL BORING LOCATION (SEE GEOTECHNICAL SHEETS FOR ADDITIONAL INVESTIGATIVE LOCATIONS)
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- TYPICAL TEE AREA
- TYPICAL GREEN PIN LOCATION

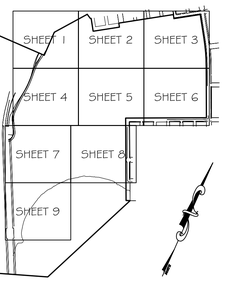

NO.	DESCRIPTION	DATE

REVISIONS

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TRC Engineers, Inc.
1430 Broadway, 10th Floor
New York, New York 10532
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DRAWING TITLE
ENVIRONMENTAL PLAN

DESIGNED BY TRC ENGINEERS, INC.	DRAWN BY HENRY DELGADO / JOEL ELLA	CHECKED BY STEVEN MEERSMA, P.E.
REVIEWED-TEAM LEADER DPR RAYMUNDO GOMEZ	FORESTRY DPR JAMES LeMYRE	APPROVED-DIRECTOR DPR DAVID CARLSON, RLA
APPROVED-CHIEF OF DESIGN DPR CHARLES MCKINNEY	APPROVED-CHIEF ENGINEER DPR JOHN NATOLI, PE	CONTRACT NO. DPR X126-109M

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DATE	SCALE	DRAWING NO.	SHEET NO.
03/06/2009	1"=40'	H2.6	199 OF 205 SHEETS

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ENVIRONMENTAL LEGEND

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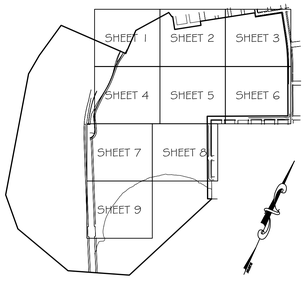

40 30 20 10 0 40 80
SCALE IN FEET

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03/06/2009	1"=40'	H2.7	

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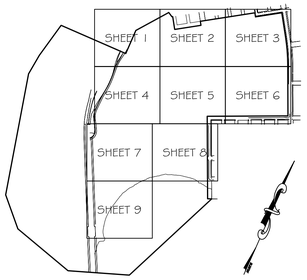

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ENVIRONMENTAL LEGEND

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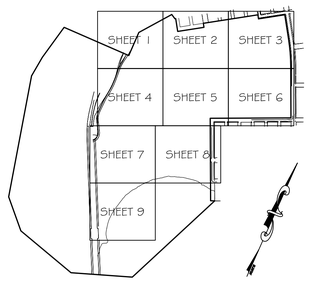

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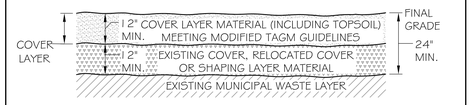

GOLF COURSE -"CUT AREAS"

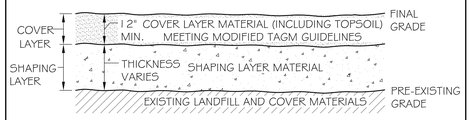

GOLF COURSE - "FILL AREAS"

GENERALIZED TYPICAL CROSS SECTIONS
NOT TO SCALE
1

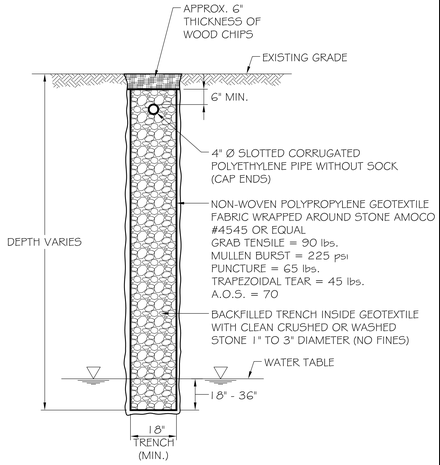

EXISTING LFG VENT TRENCH TYPICAL DETAIL
NOT TO SCALE
2

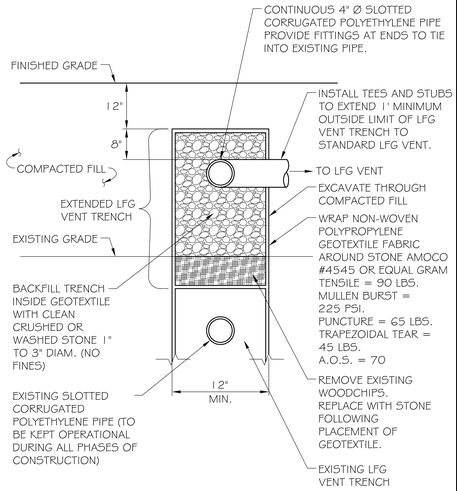

NOTES:

1. RELOCATION OF SLOTTED CORRUGATED POLYETHYLENE PIPE AS DEPICTED IS NOT REQUIRED IF INCREASE IN GRADE IS LESS THAN THREE FEET.
2. IF FINAL GRADE CONSISTS OF IMPERMEABLE OR GRASS COVER IN LIEU OF WOOD CHIPS VENTING TO THE ATMOSPHERE VIA LFG VENT IS REQUIRED AT LEAST EVERY 150 LF ALONG THE TRENCH.

VERTICAL EXTENSION OF LFG VENT TRENCH WITH LFG VENT
NOT TO SCALE
3

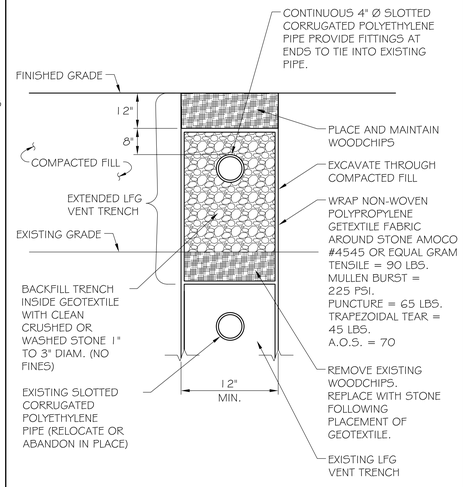

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VERTICAL EXTENSION OF LFG VENT TRENCH
NOT TO SCALE
4

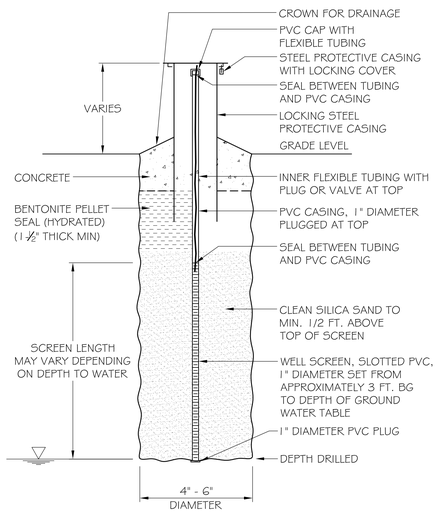

NOTE:

1. PROTECTIVE GAS MONITORING WELL CASING SHALL BE INSTALLED 24" ABOVE PROPOSED FINISHED GRADE. REFER TO MONITORING WELL & PIEZOMETER SCHEDULE (i.e. DETAIL 8) FOR ADDITIONAL INFORMATION.

GAS MONITORING WELL CONSTRUCTION (TYPICAL)
NOT TO SCALE
5

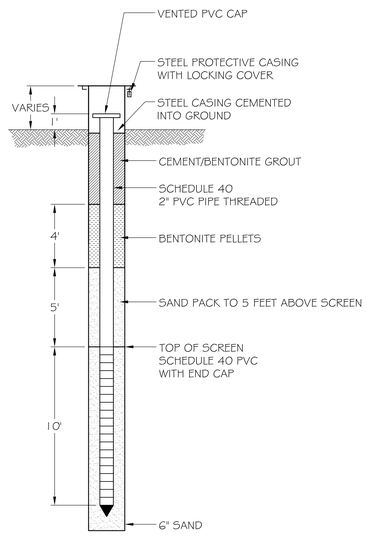

NOTE:

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TYPICAL DEEP (10' SCREEN) PIEZOMETER
NOT TO SCALE
6

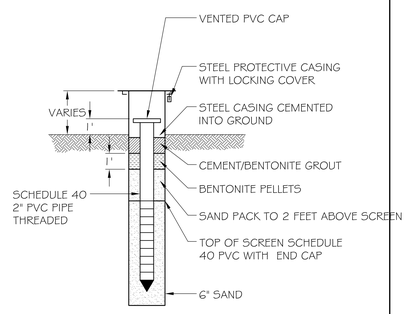

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TYPICAL SHALLOW (5' SCREEN) PIEZOMETER
NOT TO SCALE
7

Monitoring Well & Piezometer Schedule

#	Current Grade	Proposed Grade	Grade Change
E1R	11	11	0
E2R	12	12	0
E3R	11	11	0
E4R	11	11	0
E6R	13	13	0
MW-0	16.5	16.5	0
MW-9	13	11	-2
MW-17	12	12	0
PZ-01	22	22	0
PZ-02	21	21	0
PZ-03	19	19	0
PZ-05	15	14	-1
PZ-12	15	14	-1
PZ-13	8	15	+7
PZ-14	7	7	0
PZ-15	7	7	0
PZ-16	8	8	0
PZ-18	12	12	0
PZ-19	14	14	0
PZ-21	12	12	0
PZ-20	12	11	-1
PZ-23	13	12	-1
PZ-25	21	22	+1

MONITORING WELL & PIEZOMETER SCHEDULE
8

NO.	DESCRIPTION	DATE

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Olmsted Center
Flushing Meadows Corona Park
Flushing, New York 11368

PROJECT TITLE
CONSTRUCTION OF A TOURNAMENT QUALITY GOLF COURSE BOUNDED BY THE EAST RIVER, BALCOLM AVENUE, MILES AVENUE AND THE WHITESTONE BRIDGE APPROACH, IN FERRY POINT PARK, BOROUGH OF THE BRONX

DRAWING TITLE
ENVIRONMENTAL DETAILS (SHEET 1)

DESIGNED BY	DRAWN BY	CHECKED BY
TRC ENGINEERS, INC.		
REVIEWED-TEAM LEADER DPR	FORESTRY DPR	APPROVED-DIRECTOR DPR
RAYMUNDO GOMEZ	JAMES LeMYRE	DAVID CARLSON, RLA
APPROVED-CHIEF OF DESIGN DPR	APPROVED-CHIEF ENGINEER DPR	CONTRACT NO. DPR
CHARLES MCKINNEY	JOHN NATOLI, PE	X126-109M

THE ABOVE SIGNATURES DO NOT IN ANY WAY RELEASE THE CONSULTANT FROM ITS RESPONSIBILITIES REGARDING THE ACCURACY AND COMPLETENESS OF THIS DRAWING

DATE	SCALE	DRAWING NO.	SHEET NO. 203 OF 206 SHEETS
03/06/2009	NOT TO SCALE	H2.10	

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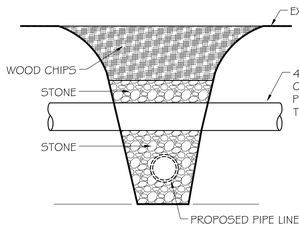

SECTION VIEW (A-A)

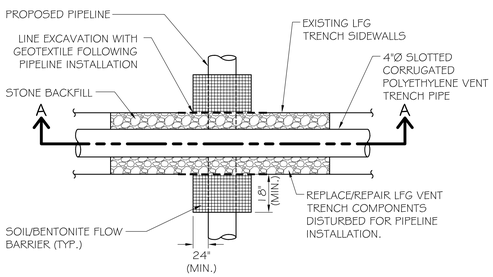

PLAN VIEW AT ELEVATION OF PROPOSED PIPELINE

PIPELINE CROSSING LFG VENT TRENCH CONSTRUCTION SEQUENCE

1. EXCAVATE THE MINIMUM AMOUNT OF SOIL AND EXISTING LFG VENT TRENCH TO ACCOMMODATE CONSTRUCTION OF THE PROPOSED PIPELINE TO CROSS THROUGH THE LFG VENT TRENCH.
2. LAY PIPELINE AS SHOWN ON CONSTRUCTION PLANS. PIPE BEDDING THROUGH LFG TRENCH REGION SHALL BE ¾" CRUSHED STONE.
3. BACKFILL DISRUPTED AREAS OUTSIDE VENT TRENCH TO SIDEWALLS OF LFG TRENCH.
4. LINE SIDEWALLS OF LFG TRENCH WITH GEOTEXTILE.
5. FILL IN THE GEOTEXTILE LINED LFG TRENCH EXCAVATION WITH STONE TO TWO FEET ABOVE THE TOP OF PIPELINE.
6. EXCAVATE AND PLACE SOIL/BENTONITE FLOW BARRIER ADJACENT TO THE SIDEWALLS OF LFG TRENCH AT THE PIPELINE. (FINISHED BENTONITE FLOW BARRIER SHALL BE AT LEAST 18" THICK AND EXTEND TWO FEET RADIALLY FROM THE SURFACE OF THE PIPELINE).
7. BACKFILL AREA SURROUNDING SOIL/BENTONITE FLOW BARRIER WITH REQUIRED SHAPING OR COVER LAYER MATERIAL.
8. REPLACE CONTINUOUS SLOTTED CORRUGATED POLYETHYLENE PIPE AND THEN ADDITIONAL STONE 12 INCHES BELOW PROPOSED FINISHED GRADE.
9. PLACE GEOTEXTILE OVER THE TOP OF THE STONE TO FULLY SURROUND THE STONE ENVELOPE.
10. COMPLETE TRENCH IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

PIPELINE CROSSING LFG VENT TRENCH DETAIL
NOT TO SCALE

1

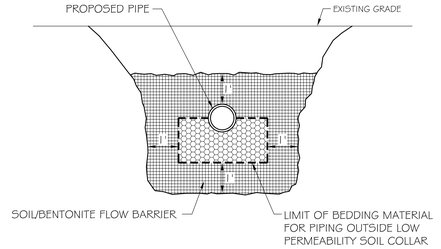

SECTION VIEW (A-A)

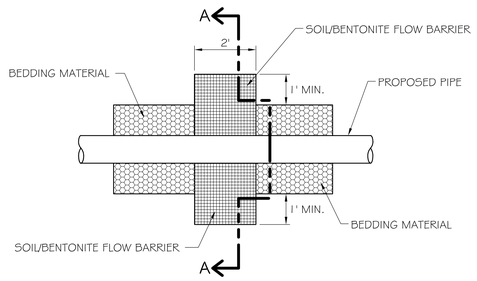

PLAN VIEW

LOW PERMEABILITY SOIL COLLAR INSTALLATION SEQUENCE

1. EXCAVATE A MINIMUM AMOUNT OF SOIL INCLUDING BEDDING MATERIAL TO INSTALL THE SOIL/BENTONITE FLOW BARRIER.
2. SOIL/BENTONITE BARRIER SHALL EXTEND A MINIMUM OF ONE FOOT IN ALL DIRECTIONS BEYOND THE LIMIT OF THE BEDDING MATERIAL AND A MINIMUM OF ONE FOOT BEYOND THE TOP OF PIPE ABOVE THE BEDDING MATERIAL. THE SOIL/BENTONITE BARRIER SHALL EXTEND TWO FEET ALONG THE PIPING TO CREATE A TWO-FOOT THICK BARRIER.
3. REPLACE ANY DISTURBED BEDDING MATERIAL OUTSIDE THE LOW PERMEABILITY SOIL COLLAR.
4. BACKFILL EXCAVATION TO REQUIRED GRADE IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

LOW PERMEABILITY SOIL COLLAR
NOT TO SCALE

2

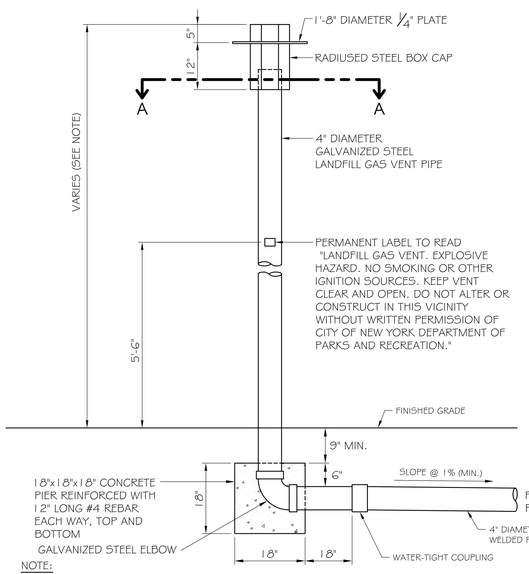

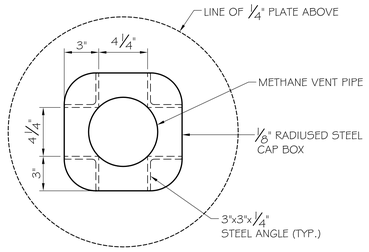

SECTION A-A

NOTE:

1. HEIGHT FROM PROPOSED FINISHED GRADE TO TOP OF VENT SHALL BE 13.5'.
2. PAINT COLOR OF LFG VENT TO BE AS DIRECTED BY LANDSCAPE ARCHITECT.

LFG VENT AND CONCRETE PIER DETAIL
NOT TO SCALE

3

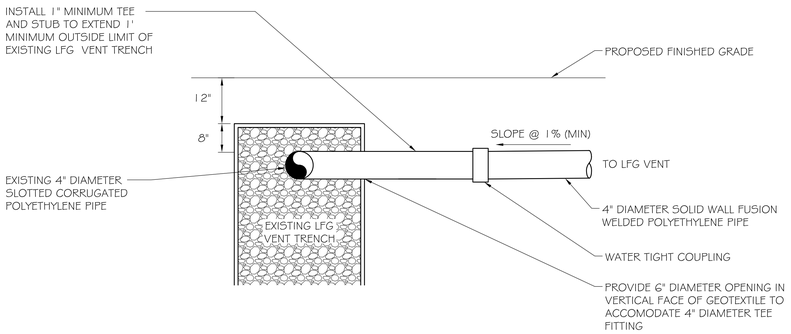

NOTES:

1. EXCAVATE THE MINIMUM AMOUNT OF SOIL AND EXISTING LFG TRENCH TO ACCOMODATE INSTALLATION OF FITTINGS.
2. REMOVE THE MINIMUM AMOUNT OF 4" DIAMETER SLOTTED CORRUGATED POLYETHYLENE PIPE TO ACCOMODATE INSTALLATION OF FITTINGS.
3. CONNECT TEE SECTION TO SLOTTED CORRUGATED POLYETHYLENE PIPE USING FLEXIBLE PVC PIPE COUPLINGS.
4. LAY FITTINGS AS SHOWN ON CONSTRUCTION PLANS, PIPE BEDDING SHOULD BE SAME MATERIAL AS REQUIRED FOR LFG TRENCH.
5. BACKFILL TO LIMIT OF LFG TRENCH.
6. LINE LIMIT OF LFG TRENCH WITH GEOTEXTILE.
7. FILL IN GEOTEXTILE LINED LFG TRENCH EXCAVATION WITH STONE TO 2' ABOVE TOP OF CORRUGATED TUBING.
8. PLACE GEOTEXTILE OVER THE TOP OF THE STONE TO FULLY SURROUND THE STONE ENVELOPE.
9. BACKFILL EXCAVATION TO REQUIRED GRADE IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

CONNECTION TO EXISTING LFG VENT TRENCH
NOT TO SCALE

4

NO.	DESCRIPTION	DATE
	REVISIONS	

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PROJECT: 164261

UNDER ARTICLE 145 (ENGINEERING), SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW, IT IS UNLAWFUL FOR ANY PERSON TO ALTER ANY ITEM ON THIS DRAWING, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. IF ANY ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

City of New York
Parks & Recreation
Olmsted Center
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Flushing, New York 11368

PROJECT TITLE
CONSTRUCTION OF A TOURNAMENT QUALITY GOLF COURSE BOUNDED BY THE EAST RIVER, BALCOLM AVENUE, MILES AVENUE AND THE WHITESTONE BRIDGE APPROACH, IN FERRY POINT PARK, BOROUGH OF THE BRONX

DRAWING TITLE
ENVIRONMENTAL DETAILS (SHEET 2)

DESIGNED BY	DRAWN BY	CHECKED BY
TRC ENGINEERS, INC.		
REVIEWED-TEAM LEADER DPR	FORESTRY DPR	APPROVED-DIRECTOR DPR
RAYMUNDO GOMEZ	JAMES LeMYRE	DAVID CARLSON, RLA
APPROVED-CHIEF OF DESIGN DPR	APPROVED-CHIEF ENGINEER DPR	CONTRACT NO. DPR
CHARLES MCKINNEY	JOHN NATOLI, PE	X126-109M

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03/06/2009	NOT TO SCALE	H2.11	

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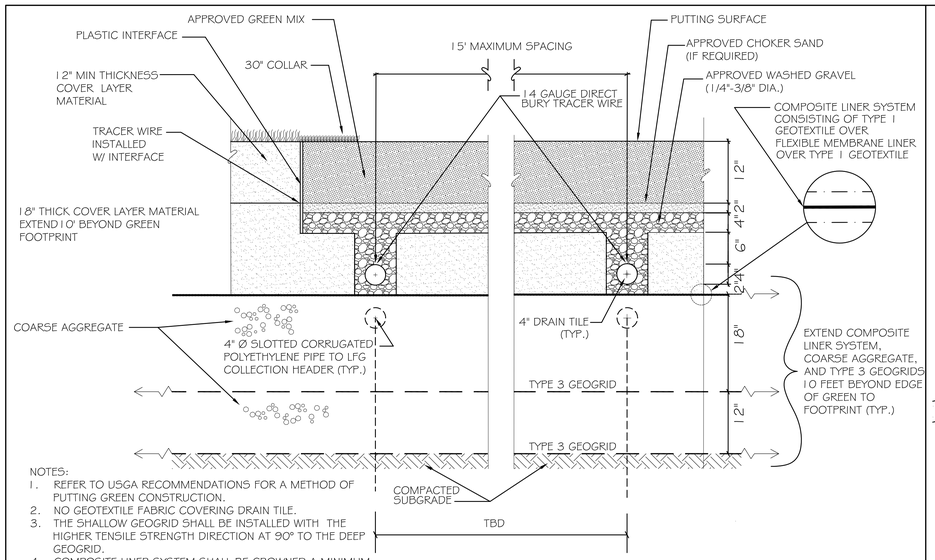

NOTES:
1. REFER TO USGA RECOMMENDATIONS FOR A METHOD OF PUTTING GREEN CONSTRUCTION.
2. NO GEOTEXTILE FABRIC COVERING DRAIN TILE.
3. THE SHALLOW GEOGRID SHALL BE INSTALLED WITH THE HIGHER TENSILE STRENGTH DIRECTION AT 90° TO THE DEEP GEOGRID.
4. COMPOSITE LINER SYSTEM SHALL BE CROWNED A MINIMUM OF 2% BUT NOT LESS THAN 9" VERTICAL BETWEEN COMPOSITE LINER SYSTEM HIGH POINT (CENTER OF GREEN) AND EDGE OF LINER SYSTEM TO ALLOW FOR DRAINAGE ABOVE LINER.
5. NUMBER AND PLACEMENT OF 4" Ø SLOTTED CORRUGATED POLYETHYLENE PIPE SHALL BE DETERMINED BY THE ENGINEER.

TYPICAL GREEN CONSTRUCTION DETAIL
NOT TO SCALE

1

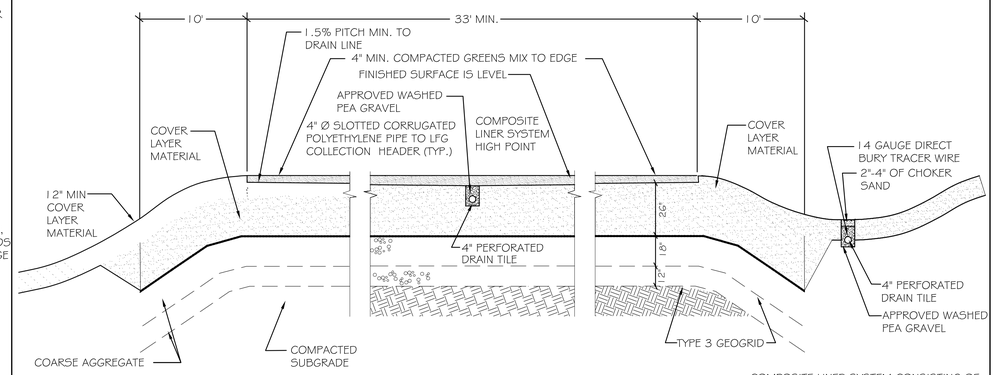

COMPOSITE LINER SYSTEM CONSISTING OF TYPE 1 GEOTEXTILE OVER FLEXIBLE MEMBRANE LINER OVER TYPE 1 GEOTEXTILE

NOTES:
1. COMPOSITE LINER SYSTEM SHALL BE CROWNED A MINIMUM OF 2% BUT NOT LESS THAN 9" VERTICAL BETWEEN COMPOSITE LINER SYSTEM HIGH POINT AND EDGE OF LINER SYSTEM TO ALLOW FOR DRAINAGE ABOVE LINER.
2. CREATE EDGE AT TEE BOX / ROUGH INTERFACE TO CONTAIN TEE MIX.
3. THE SHALLOW GEOGRID SHALL BE INSTALLED WITH THE HIGHER TENSILE STRENGTH DIRECTION AT 90° TO THE DEEP GEOGRID.
4. VERTICAL SCALE HAS BEEN EXAGGERATED FOR ILLUSTRATIVE PURPOSES.
5. NUMBER AND PLACEMENT OF 4" Ø SLOTTED CORRUGATED POLYETHYLENE PIPE SHALL BE DETERMINED BY THE ENGINEER.

TYPICAL TEE CONSTRUCTION DETAIL
NOT TO SCALE

2

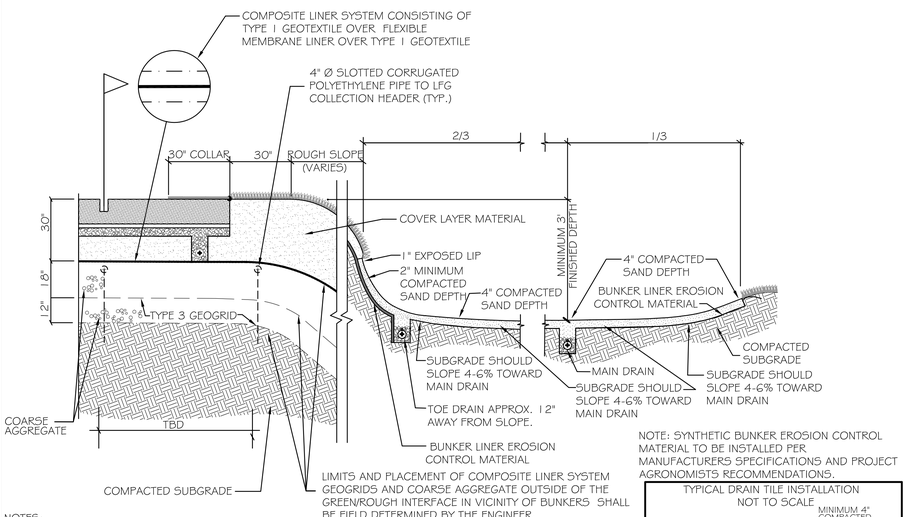

NOTE: SYNTHETIC BUNKER EROSION CONTROL MATERIAL TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS AND PROJECT AGRONOMISTS RECOMMENDATIONS.

TYPICAL DRAIN TILE INSTALLATION
NOT TO SCALE

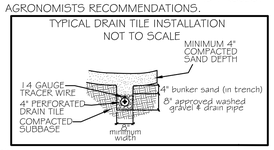

NOTES:
1. COMPOSITE LINER SYSTEM SHALL BE CROWNED A MINIMUM OF 2% BUT NOT LESS THAN 9" VERTICAL BETWEEN COMPOSITE LINER SYSTEM HIGH POINT (CENTER OF GREEN) AND EDGE OF LINER SYSTEM TO ALLOW FOR DRAINAGE ABOVE LINER.
2. THE SHALLOW GEOGRID SHALL BE INSTALLED WITH THE HIGHER TENSILE STRENGTH DIRECTION AT 90° TO THE DEEP GEOGRID.
3. VERTICAL SCALE HAS BEEN EXAGGERATED FOR ILLUSTRATIVE PURPOSES.
4. NUMBER AND PLACEMENT OF4" Ø SLOTTED CORRUGATED POLYETHYLENE PIPE SHALL BE DETERMINED BY THE ENGINEER.

TYPICAL BUNKER DETAIL
NOT TO SCALE

3

NO.	DESCRIPTION	DATE
	REVISIONS	

SEAL

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DRAWING TITLE
ENVIRONMENTAL DETAILS (SHEET 3)

DESIGNED BY	DRAWN BY	CHECKED BY
TRC ENGINEERS, INC.		
REVIEWED-TEAM LEADER DPR	FORESTRY DPR	APPROVED-DIRECTOR DPR
RAYMUNDO GOMEZ	JAMES LeMYRE	DAVID CARLSON, RLA
APPROVED-CHIEF OF DESIGN DPR	APPROVED-CHIEF ENGINEER DPR	CONTRACT NO. DPR
CHARLES MCKINNEY	JOHN NATOLI, PE	X126-109M

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DATE	SCALE	DRAWING NO.	SHEET NO. 205 OF 208 SHEETS
03/06/2009	NOT TO SCALE	H2.12	

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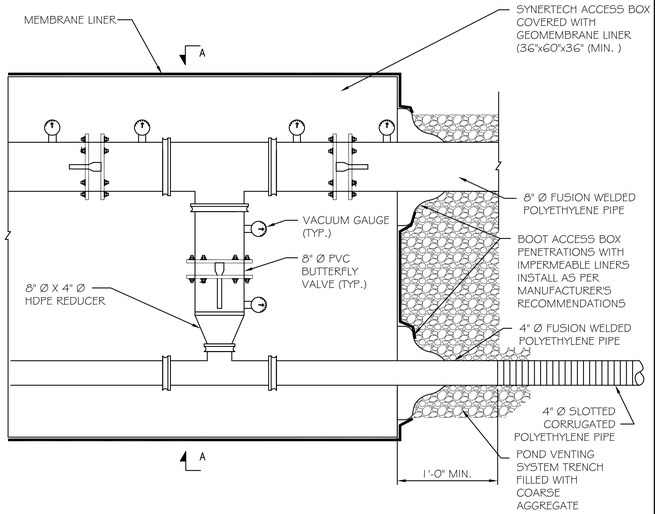

TYPICAL ACCESS BOX COMPONENTS
NOT TO SCALE

1

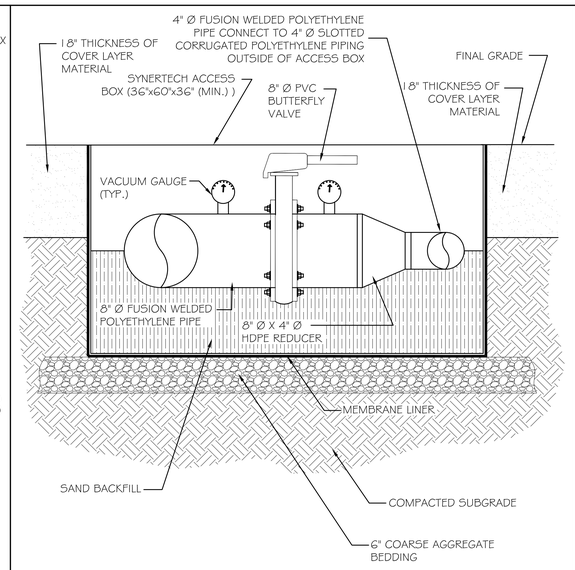

A-A CROSS SECTION OF TYPICAL ACCESS BOX COMPONENTS
NOT TO SCALE

2

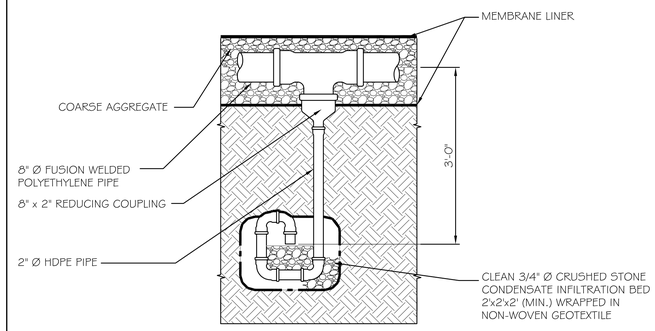

NOTE: INSTALL AT ALL LOW POINTS IN 8" Ø FUSION WELDED POLYETHYLENE PIPE. PROVIDE ADDITIONAL FITTINGS AS NEEDED

TYPICAL LOW POINT CONDENSATE DRAIN DETAIL
NOT TO SCALE

3

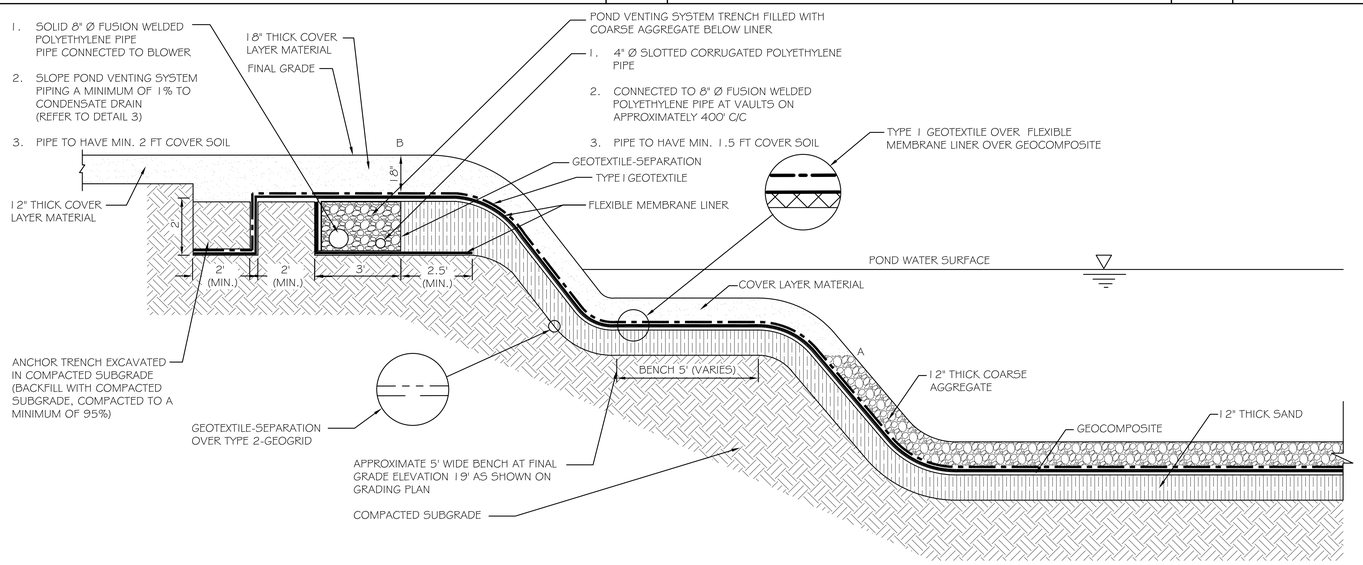

NOTES

1. GEOCOMPOSITE TO BE TENAX "TENFLOW AIRMAX 770-2" WITH TRI-AXIAL GEONET AND BONDED GEOTEXTILE ON BOTH SIDES, OR APPROVED EQUAL BY ENGINEER.
2. FLEXIBLE MEMBRANE LINER TO BE TEXTURED 60-MIL, LINEAR LOW DENSITY POLYETHYLENE; ALL SEAMS TO BE FIELD WELDED.
3. SAND LAYER BELOW GEOCOMPOSITE SHALL BE SUBSTITUTED WITH TYPE 1 GEOTEXTILE OVER 18" LAYER OF COARSE AGGREGATE IN AREAS BELOW WATER TABLE (ANTICPATED TO BE PRESENT AT EL. 10'-12').
4. TYPE 2 GEOGRID AND GEOTEXTILE-SEPARATION SHALL BE OVERLAPPED APPROXIMATELY 2' AT ALL SEAMS.
5. TYPE 2 GEOGRID TO BE INSTALLED WITH HIGHER TENSILE STRENGTH DIRECTION LONGITUDINAL TO POND SLOPES.
6. FLEXIBLE MEMBRANE LINER TO BE PLACED LOOSELY WITH LONGITUDINAL AND TRAVERSE SLACK INCORPORATED INTO INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. GEOCOMPOSITE SHALL BE PROVIDED WITH A MINIMUM OF 1' OVERLAP.
8. VERTICAL SCALE HAS BEEN EXAGGERATED FOR ILLUSTRATIVE PURPOSES.
9. SEE PLAN VIEW SHEET OF POND CONFIGURATION FOR LOCATION OF ANCHOR TRENCH AND MINIMUM EXTENT OF FLEXIBLE MEMBRANE LINER.
10. CONTRACTOR TO PROVIDE UNIFORM TRANSITION OF COVER LAYER MATERIAL FROM POINT A (12" THICK COVER LAYER MATERIAL) TO POINT B (18" THICK COVER LAYER MATERIAL).

POND VENTING SYSTEM AND ANCHOR TRENCH
NOT TO SCALE

4

NO.	DESCRIPTION	DATE

REVISIONS

SEAL

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DRAWING TITLE
ENVIRONMENTAL DETAILS (SHEET 4)

DESIGNED BY	DRAWN BY	CHECKED BY
TRC ENGINEERS, INC.	HENRY DELGADO	STEVE MEERSMA
REVIEWED-TEAM LEADER DPR	FORESTRY DPR	APPROVED-DIRECTOR DPR
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03/06/2009	NOT TO SCALE	H2.13	

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NOTES:

1. INSTALL FLEXIBLE MEMBRANE LINER BOOT AROUND PIPE.
2. WELD ALL SEAMS TO CONNECT FLEXIBLE MEMBRANE LINER AND BOOTS.
3. INSTALL STAINLESS STEEL BANDING AND REQUIRED SEALANTS.
4. BACKFILL TO REQUIRED GRADE IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

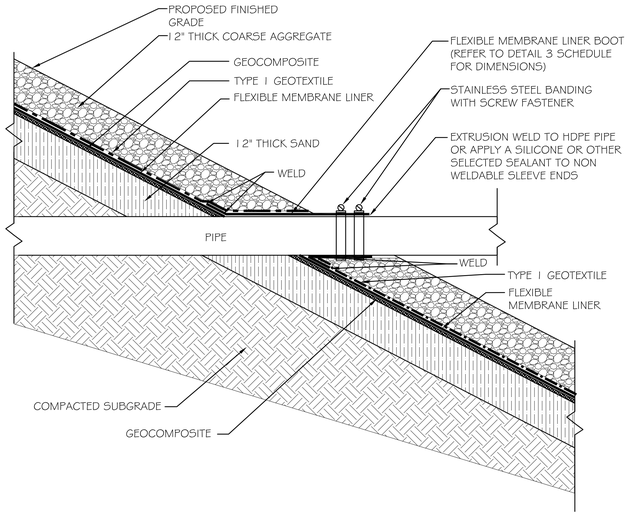

TYPICAL PIPE PENETRATION
NOT TO SCALE

1

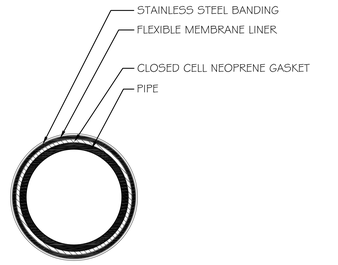

SECTION A-A

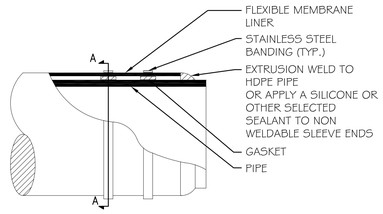

TYPICAL PIPE PENETRATION SEAL
NOT TO SCALE

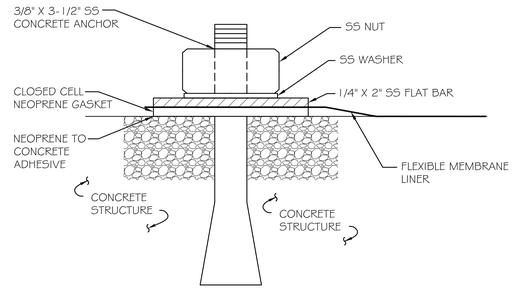

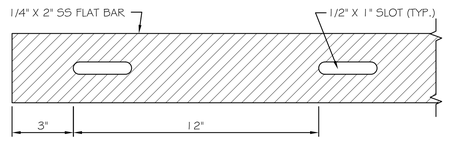

MECHANICAL ATTACHMENT OF FLEXIBLE MEMBRANE LINER TO CONCRETE
NOT TO SCALE

2

NOTES:

1. IN AREA OF PROPOSED CONCRETE PIPE ANCHOR, VALVE RISER AND OUTLET STRUCTURE, CUT THE MINIMUM AMOUNT OF FLEXIBLE MEMBRANE LINER, GEOCOMPOSITE AND TYPE 1 GEOTEXTILE TO ACCOMODATE INSTALLATION OF LINER AT REQUIRED GRADE.
2. INSTALL FLEXIBLE MEMBRANE BOOT LINER AROUND PROPOSED CONCRETE PIPE ANCHOR, VALVE RISER AND OUTLET STRUCTURE.
3. WELD ALL SEAMS TO CONNECT FLEXIBLE MEMBRANE LINER AND BOOTS.
4. INSTALL STAINLESS STEEL BANDING / FLAT BAR AND REQUIRED SEALANTS AS ILLUSTRATED.
5. FASTEN FLEXIBLE MEMBRANE LINER BOOT VIA BANDING / FLAT BAR AS ILLUSTRATED.
6. BACKFILL TO REQUIRED GRADE IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
7. NOT ALL ELEMENTS OF POND VENTING SYSTEM ARE ILLUSTRATED

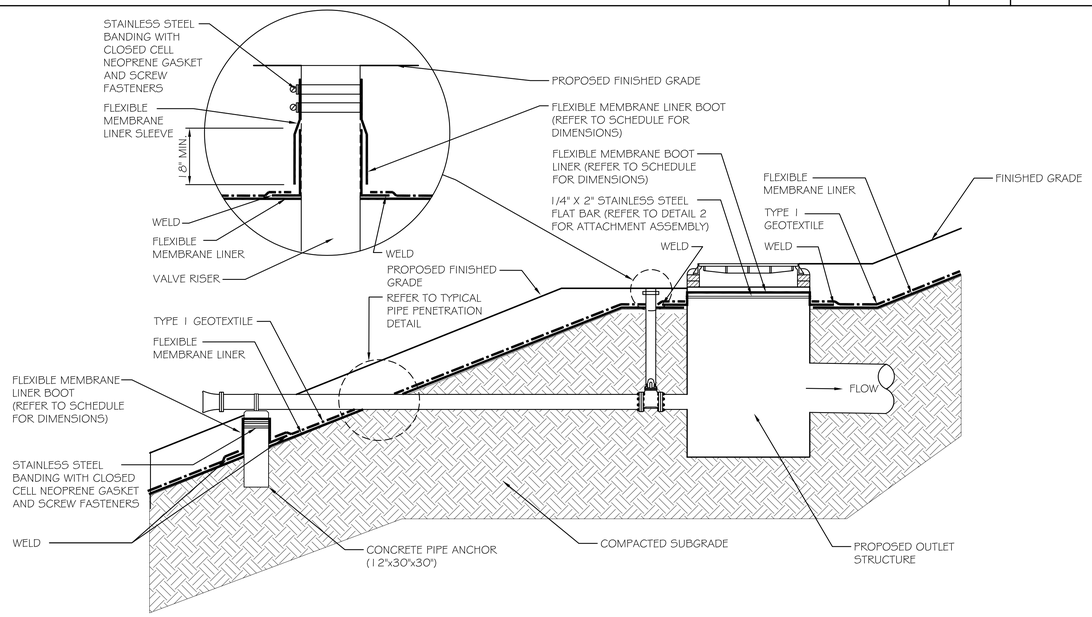

LINER AT OUTLET STRUCTURE
NOT TO SCALE

3

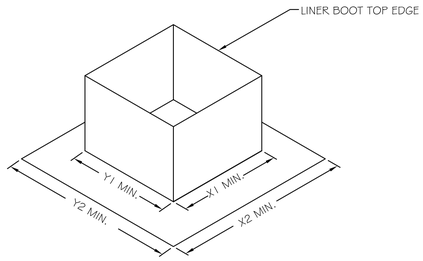

LOCATION	X1	X2	Y1	Y2
PIPE ANCHOR	12" MIN	30" MIN	30" MIN	48" MIN
OUTLET STRUCTURE	60" MIN	78" MIN	57" MIN	75" MIN
PIPE/RISER	VARIES BASED ON PIPE / RISER DIAMETER			

TYPICAL FLEXIBLE MEMBRANE LINER BOOT & SCHEDULE
NOT TO SCALE

NO.	DESCRIPTION	DATE

REVISIONS

SEAL

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City of New York
Parks & Recreation

Olmsted Center
Flushing Meadows Corona Park
Flushing, New York 11368

PROJECT TITLE
CONSTRUCTION OF A TOURNAMENT QUALITY GOLF COURSE BOUNDED BY THE EAST RIVER, BALCOLM AVENUE, MILES AVENUE AND THE WHITESTONE BRIDGE APPROACH, IN FERRY POINT PARK, BOROUGH OF THE BRONX

DRAWING TITLE
ENVIRONMENTAL DETAILS (SHEET 5)

DESIGNED BY	DRAWN BY	CHECKED BY
TRC ENGINEERS, INC.		
REVIEWED-TEAM LEADER DPR	FORESTRY DPR	APPROVED-DIRECTOR DPR
RAYMUNDO GOMEZ	JAMES LeMYRE	DAVID CARLSON, RLA
APPROVED-CHIEF OF DESIGN DPR	APPROVED-CHIEF ENGINEER DPR	CONTRACT NO. DPR
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DATE	SCALE	DRAWING NO.	SHEET NO. 207 OF 208 SHEETS
03/06/2009	NOT TO SCALE	H2..14	

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Engineers Planners Surveyors Landscape Architects Environmental Scientists

MASER CONSULTING P. A.

Final Construction Certification Report
Subslab Depressurization System & Gas Line Installation
NYSDEC Permit #2-6006-00014 / 00013 (Solid Waste)

Trump Ferry Point Golf Links Permanent Clubhouse
500 Hutchinson River Parkway
Block 5622, Lot 1
Bronx, New York

November 26, 2019

Prepared For

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EXECUTIVE SUMMARY

Maser Consulting P.A. (Maser Consulting), on behalf of The Trump Organization, has prepared this Certification Report for the construction of the permanent Clubhouse at the Trump Ferry Point Golf Links located at 500 Hutchinson River Parkway, Bronx, New York. This report has been prepared pursuant to 6 NYCRR Part 360 of the New York State Solid Waste Management Program and the 2013 Ferry Point Park East Post Construction Custodial Care Plan. This report also includes a summary of a supplemental project to install a new gas main as part of the Clubhouse Construction project.

Acting as the Independent Environmental Monitor (IEM), Maser Consulting witnessed, recorded and confirmed construction of the new Trump Links Clubhouse, including the installation of support pilings, importation of suitable materials used for cover; the application, installation and testing of the Liquid Boot® Vapor Barrier System and the associated Sub-slab Depressurization System (SSDS); and the installation, calibration and testing of the interior Methane Detection System. For each construction and testing component, Maser Consulting confirms compliance with the Permits, plans and specifications of the project. Minor deviations to the plans and specifications are noted in this report and in the As-Built documents contained herein. Minor deviations to the specifications were the result of two main issues: the need to relocate system components to avoid conflicts and interferences with utilities and appurtenances; and the substitution of the materials of construction that were equivalent or superior to the original specifications.

The IEM also monitored, tested and confirmed that soil materials imported for the new Clubhouse construction were derived from pre-approved sources. The IEM conducted periodic surveillance of trucks being loaded at the approved facilities and transported to the Construction Site. For material imports, the IEM visually evaluated loads and scanned loads with direct reading instruments for signs of contamination. Only those loads meeting project permit and specifications standards were permitted to be unloaded at the site.

At times when imported soil materials had to be stockpiled on-site, the IEM took steps to ensure that a controlled staging area was secured. The staging area was established in the parking lot to the west of the new Clubhouse site. The IEM also took steps to ensure that the stockpile was properly covered to prevent erosion by wind and water, and that catch basins in the parking lot were properly protected to ensure that sediments would not enter the storm water system. Weekly erosion control inspections were conducted by the IEM in accordance with NYSDEC's Construction Site Management Program. The IEM immediately communicated deficiencies in the erosion control features to the General Contractor (JCS) such that immediate mitigative action could be taken.

Maser Consulting also acted as the IEM for a supplemental project associated with the new Clubhouse construction. The supplemental project consisted of the installation of an approximately 5,500-foot long, 6-inch diameter gas pipeline installation. The new gas supply line was deemed necessary to provide heating, ventilation, air conditioning and other utility service to the new Clubhouse. The gas pipeline was connected to a Consolidated Edison main located north of the clubhouse along Schley Avenue. The pipeline route generally traverses the western property line before turning east toward the new clubhouse in the vicinity of the Clubhouse parking lot. As IEM for this supplemental project, Maser Consulting witnessed, recorded and confirmed that the gas pipeline installation was conducted in accordance and incompliance with the project permits, plans and specifications.

Similar to the Clubhouse construction project, cover material importation was required for the gas main installation project. The IEM took appropriate measures to ensure that the source material was inspected and tested. Soil quality analytical results have been included within this report. Analyzed permit parameters were found to be acceptable. The IEM also visually assessed and field screened each load to ensure that the quality of the material met project permit requirements and project plans and specifications.

FINAL CONSTRUCTION CERTIFICATION REPORT
TRUMP FERRY POINT GOLF LINKS PERMANENT CLUBHOUSE
SUBSLAB DEPRESSURIZATION SYSTEM & GAS LINE INSTALLATION

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Appendix Q – Drawings titled "Ferry Point Clubhouse, 500 Hutchinson Parkway, Bronx, NY" showing new gas line prepared by Victor Famulari Architect P.C. dated July 25, 2018
Appendix R – DORs for Installation of New 6-Inch Gas Line to Clubhouse

I. INTRODUCTION

A. Purpose

This Final Construction Certification Report for the Trump Ferry Point Golf Links clubhouse is submitted to the New York State Department of Environmental Conservation (NYSDEC) and the New York City Department of Parks & Recreation (NYCDPR) upon completion of the construction of a new clubhouse at Ferry Point Park East. Built on top of a former municipal landfill, the major elements of the Clubhouse construction project consisted of the installation of over 200 steel support pilings driven through the former landfill material and into competent rock at an average depth of 75 below grade. During the support piling installation, Maser Consulting (acting as the IEM) measured the ambient air quality for signs of methane gas release from the subsurface. When detected on rare occasions, immediate measures were taken to mitigate methane from the work and breathing zones with the use of engineering controls including physical barriers and the use of industrial explosion-proof fans to ventilate the work zones.

Following the installation of the support pilings, Maser Consulting observed the installation of two added protective elements – a Liquid Boot® Vapor Barrier System and a corresponding SSDS. Both systems were designed to mitigate the intrusion of methane and other landfill gases into the new Clubhouse.

As a means to assess the effectiveness of the Vapor Barrier and the SSDS, a Methane Detection System was installed inside the new Clubhouse. The methane detection system consists of a network of in-floor methane sampling ports as well as a series of methane detectors located throughout the main banquet and reception areas as well as in the smaller offices, the kitchen and other employee and publicly-accessible areas.

This report certifies that the construction of the Liquid Boot® vapor barrier system and the SSDS for the new clubhouse have been completed in accordance with the 6 NYCRR Part 360 Solid Waste Management Permit for Ferry Point Park (copy provided as **Appendix A**). This report further certifies that Methane Detection system was also installed, tested and calibrated in compliance with the project permits, plans and specifications.

B. Report Organization

This report has been generated to provide a written post-construction certification report to comply with the requirements of the above-referenced Part 360 Permit. The narrative and supporting information provided in this report have been organized such that any individual, especially those not familiar with the new clubhouse construction, can gain a concise understanding of the history of improvements at the Site (a former solid waste management facility, i.e. landfill).

The report has been organized into the following sections:

- Section I which briefly describes the purpose and scope of the project, provides details pertaining to the Site background including a Site description, key agencies involved, and permitting history

- Section II describes the Part 360 Permits and modifications, Permit reference documents, nonconformance issues, operational upsets, emergencies, and unusual circumstances, and reporting completed associated with the new clubhouse

- Section III details the fill importation Quality Assurance / Quality Control (QA/QC) program, specifically source site reviews for cover layer material, on-site fill importation inspection, trucking manifests, rejected trucks and materials, fill tracking, and total carcinogenic semi-volatile organic compound (SVOC) tracking

- Section IV provides details related to construction activities on-site including construction of the new clubhouse, environmental controls such as landfill gas monitoring, municipal solid waste handling, earthwork and fill placement, demarcation layer, construction progress meetings, and deviations from the approved design plans and/or Permit requirements with as-built surveys

- Section V details the environmental monitoring completed during the Project including Stormwater Pollution Prevention Plan (SWPPP) erosion control inspections.

- Section VI provides a summary of the report

- Section VII provides report certification

C. Background Information

a. Project Scope

Ferry Point Park in the Bronx (the "Site") is a former landfill covering 222 acres that is bounded by the Bronx-Whitestone Bridge and Hutchinson River Parkway to the west; Balcom, Miles, and Emerson Avenues to the east; Schley Avenue and St. Raymond's Cemetery to the north; and the East River to the south. The project was originally managed under Ferry Point Partners, LLC and was taken over solely by the City of New York Department of Parks and Recreation in October 2007.

The original project scope included the construction of three main elements including a golf course, a community park, and a waterfront park over the 222-acre Site as follows:

- An 18-hole golf course with practice facility, driving range, clubhouse, maintenance facility, irrigation lake, stormwater retention ponds, and a parking lot (192.5 acres);
- A passive recreation waterfront park with walkways and a comfort station (19.5 acres); and
- A community park with baseball fields, basketball court, walkways, comfort station, and landscaped stormwater retention area (10 acres)

A new element of the project was initiated in 2017 with the construction of a permanent clubhouse in the southern corner of the Site. The project began in July 2017 and was completed in August 2018.

A supplemental component of the Clubhouse project was deemed necessary when the existing 2-inch gas service line to the facility was determined to not be capable of providing the volume of gas necessary to support the heating, ventilation and air conditioning units as well as other facility utilities such as the kitchen and other amenities. Construction of the Gas Main Installation began in late August 2018 and was substantially completed by November 2018.

b. Project Site[1]

The origins of the site date back to the early 1900s. At that time, an available 1900 map of the Bronx showed the western edge of the site which now contains the expressway and Whitestone Bridge was a long narrow peninsula extending out to the same area that the northern landing of the Whitestone Bridge now extends. Immediately east of this peninsula was a large open bay which is the area that the Ferry Point Golf Course is now located. Northeast of the bay and well inland was the Baxter Creek that drained into the bay. The eastern landfall of this embayment area is a larger peninsula that contains roadways and a residential development. The road patterns do not resemble the roadways that currently exist in that area and appear to have been changed.

A 1938 aerial photo showing the construction of the Whitestone Bridge shows the Bay, mooring, residential area and land to the west to be virtually the same as shown in the 1900 map. The significant change is in the widening of the western peninsula where the expressway was being constructed leading to the bridge ramps. The widening was not significant at this time but a rectangular area in the extreme northwest corner of what is now the site appears to be filled and graded – possibly to support construction staging area for the bridge/expressway. Areas of filling can be readily identified in the photograph by the contrasting lighter color typically indicative of sandy dredge sand placement. Other areas along the shoreline can be seen as containing a lighter-colored band of fill material and this includes much of the new Ferry Point Park located west of the Whitestone Bridge. Much of the park area was filled and graded by 1938. Bulkheads were constructed with linear components to present a smooth shoreline but one that does not appear to contain a beach where water diminishes in depth to 0. Photos of the eastern area of the bay where mooring and docks can be seen showing large vessels moored against the shore. This would indicate the water had significant depth all of the way to the center of the bay.

Aerial photographs from the 1950s show a drastic change in the area currently referred to as the site. Large expansion of the filling that was evident in 1938-39 up in the northeast corner can be clearly seen. The filling extends well into the bay and it appears that a connective bridge

[1] *Reference: "Ferry Point Park Golf Course & Community Park, Bronx New York, Final Construction Certification Report, NYSDEC Permit #2-6006-00014 / 00013 (SW)" prepared by the City of New York Department of Parks and Recreation dated October 19, 2015 – a.k.a. the 2015 Final Construction Certification Report*

was constructed from the eastern shore to the fill area. It is difficult to discern if this is a usable structure for crossing or if it had some other purpose. The filling operation appears from the photo to consist of the same light-colored material that was placed in the Ferry Point Park and from photos showing a large number of barges in the water filled with material of the same light color. There is specific documentation that presents the specific origin and consistency of the material. but from the prior aerials showing filling and this large expansion, it appears to be of a similar origin which would be dredge sand. In the 1951 aerial, no specific municipal solid waste dumping and disposal can be seen; however, records indicate the landfill operated during this approximate time period. It is therefore assumed that municipal solid waste was disposed shortly after the photo was taken. The landfilling shown in the aerial may have been the initial construction of the upper portion of the landfill with the tidal gate or bridge closing in the upper bay area. Additional aerials of the landfilling were not identified and more recent aerials document the completion of filling as well as the more recent golf course construction.

What can be discerned from this compilation of photos is that the landfill could be located in an area that may have been open water as well as some area that was previously reclaimed land with dredge material.

The Site operated as a landfill from before 1951 to the 1960s. The landfill reportedly accepted municipal solid waste during its operating period and was closed and covered in the mid-1960s, with additional closure operations conducted more recently in the 1980s. Prior Site use was determined from historic aerial photographs from 1938 thru 1991. The aerial photographs span the entire operational period of the prior landfill, from its initial operations to the present, and provides substantial information about the Site's development.

c. Key Agencies

The following were the key agencies associated with the project providing oversight, administration, design, construction, and monitoring services. The following is not intended to be an exhaustive list of involved entities related to the Project:

Primary Regulatory Agency:
New York State Department of Environmental Conservation Region 2 ("NYSDEC")

Project Permittee:
City of New York Department of Parks & Recreation ("NYCDPR")

Primary Design, Engineering, Construction, and Monitoring Consultants:
Hart Howerton Planning, Architecture and Landscape Architecture, P.C. ("Hart Howerton")
French & Parrello Associates ("FPA")

Independent Environmental Monitor ("IEM"):
Maser Consulting P.A. ("Maser Consulting")
Woodard & Curran ("W&C")

General Contractor:
Golf Course Clubhouse: JCS Construction Group, Inc. ("JCS")

Subcontractor for the SSDS and Liquid Boot® Vapor Barrier Installation:
EAI, Inc. ("EAI")

Golf Course Concessionaire/Operator:
The Trump Organization ("Trump")

See **Appendix B** for a list of project participants.

d. Independent Environmental Monitor

The requirement for an IEM on this project was associated with an increased level of monitoring exceeding normal review and oversight practices of the NYSDEC in order to protect public health and the environment. The increased level of review and oversight for this Project was mainly associated with the effort required for evaluation of fill material sources, source site testing and inspection, importation of the fill material, environmental monitoring required at the clubhouse construction site, and later along the gas main installation route. IEM services were also necessary during the installation of over 200 support piles through the former waste pile located beneath the new Clubhouse.

In accordance with Special Condition 24 of the 2014 Permit (**Appendix A**), NYCDPR was responsible to retain an IEM, accountable to NYSDEC, to provide environmental oversight of activities authorized under the Permit including but not limited to the quantification, importation and placement of fill, and the monitoring of the clubhouse construction site. Particular activities performed by the IEM for this Project included the following:

- Report deviations from or non-compliance with permitted activities to NYSDEC;
- Evaluate and inspect fill sources;
- Evaluate, monitor and mitigate methane intrusions during the installation of steel support pilings for the new clubhouse foundation;
- Witness source site investigation, sampling, and compare lab test results to Permit requirements;
- Visual and Photoionization Detector (PID) inspection of imported fill materials to the Site;
- Monitor offloading of trucks and reject unacceptable materials from being dumped on the Site and used for construction;
- Monitor environmental sampling on the Site (i.e. landfill gas);
- Monitor fill operations on the Site, particularly the installation of minimum thickness of shaping layer and cover layer materials as well as demarcation layer installation;
- Complete and submit Daily Observation Reports to NYCDPR;
- Complete weekly Erosion Control Reports; and
- Attend weekly Construction Progress Report meetings

The selection, continued retention, discharge, or replacement of the IEM was subject to the approval of NYSDEC at its sole discretion.

e. Project and Part 360 Permitting History

The following represents an overview of project and permitting history outlining key events:

On May 21, 2014 NYSDEC issued Permit No. 2-6006-00014 / 000013 for a Solid Waste Management Facility for the Ferry Point Park Golf Course; this permit establishes an IEM. A copy of this permit is provided in **Appendix A**.

On June 12, 2017 the Ferry Point Park SSDS Plan prepared by FPA for the proposed permanent clubhouse was submitted to NYSDEC. A copy of this submittal is provided in **Appendix C**.

On June 22, 2017 NYSDEC issued a letter to The Trump Organization approving the Ferry Point Park SSDS Plan. A copy of this letter is provided in **Appendix D**.

On June 7, 2018 Maser Consulting (through The Trump Organization) submitted a Construction Certification for the SSDS to NYSDEC to allow for the temporary, one-day opening of the new clubhouse on June 11, 2018. A copy of this submittal is provided in **Appendix E**.

On July 2, 2018 NYSDEC issued a review letter with comments on the June 7, 2018 Maser Consulting Construction Certification for the SSDS. A copy of this letter is provided in **Appendix F**.

On July 11, 2018 Maser Consulting provided a letter response to NYSDEC's July 2, 2018 review letter. A copy of this letter response is provided in **Appendix G**.

f. Construction Drawings

Construction drawings for the SSDS are included in **Appendix C**.

II. PART 360 PERMIT

A. Part 360 Permits and Modifications

The following permit was issued for this Project:

NYSDEC Permit No. 2-6006-00014 / 000013 (Solid Waste Management Facility – Ferry Point Park Golf Course, Bronx NY) issued on May 21, 2014 (copy provided in **Appendix A**).

B. Reference Documents

Refer to the 2015 Final Construction Certification Report for a list of Permit reference documents. These documents support the original Permit and/or provide basis for subsequent permits renewals and modifications.

C. Non-Conformance Issues

In accordance with Special Condition 24 of the 2014 Permit, the IEM reported on Permit-related non-conformance issues during the duration of construction of the permanent clubhouse and on the gas main installation project. Non-conforming issues identified during the construction of the new facility were immediately addressed and remedied so that activities were in conformance with applicable plans, specifications and permits.

D. Operational Upsets, Emergencies, and Unusual Circumstances

No evidence of security breaches, unauthorized entries, injuries, fires, theft, vandalism etc. were observed during construction of the permanent clubhouse. The only post-construction upset was related to damage caused to the outdoor lighting system from wildlife borrowing and chewing. Corrective measures were undertaken with normal and routine maintenance actions by The Trump Organization maintenance staff.

E. Reporting

The IEM was responsible for daily and weekly reporting to the NYCDPR regarding the status of the work. The IEM participated in weekly on-site construction meetings and submitted weekly Erosion Control Reports during the construction period. Daily Observation Reports ("DOR") were also submitted to the NYCDPR for review and comment.

The IEM reported to the NYCDPR on a generally daily basis on the following information: weather conditions, fill materials imported to the site, detailed notes of construction activities, and non-conformance issues related to the Permit conditions. Non-conformance issues were immediately addressed by the contractors under the supervision of the IEM. The IEM also reported weekly to the NYCDPR on the construction status and pertinent observations regarding the erosion control measures around the construction site and at the imported soil stockpile area.

DORs are provided in **Appendix I** beginning on July 19, 2017 through February 5, 2019.

F. Authorized Fill Volumes

Imported fill material was derived from two pre-approved sources, one for cover material associated with the new Clubhouse and one for cover material used in the installation of the new 6-inch gas main.

New York Recycling located at 475 Exterior Road, Bronx, NY was the source of the material used for the new Clubhouse. A table in **Appendix K** indicates the volumes of material imported from this facility. This material met the soil quality standards set forth in the Permit requirements. During the course of the importation process, the material was re-sampled in order to reconfirm its quality. Analytical testing data can be reviewed in **Appendix J**. A total of 1,062 cubic yards of material was imported from this source site between November 2017 and March 2018.

Ranco Sand and Gravel located at 151 South Street, Manorville, New York was the source site for materials imported for the gas main installation project. A site source inspection was conducted in advance of the imports and analytical testing was performed to establish that imported material would meet all Permit conditions and requirements. A table in **Appendix L** provides a summary of the imports from Ranco Sand & Gravel. A of total 690 cubic yards of material was imported between September and October 2018.

III. FILL IMPORTATION QA/QC PROGRAM

A. Background

Fill material importation for construction of the permanent clubhouse commenced on November 27, 2017 and the last day for fill import was March 12, 2018. The fill importation QA/QC program implemented for the Project based on the Permit and associated reference documents was adhered to. The fill importation consisted of two main components: source site reviews and on-site inspections. A source site review was conducted by the IEM prior to fill material being imported to the Site and additional visual and PID inspections were completed by the IEM upon the material entering the Site at the IEM inspection area and again once the material was dumped at the work or stockpile location on the Site.

B. Source Site Reviews

Prior to cover layer material being imported to the Site, each potential source was thoroughly evaluated by the IEM. An environmental review was performed for proposed source sites in accordance with Special Condition 24 of the 2014 Permit. The source site review process criteria were specified in the Report on Fill Management, Operations and Maintenance, prepared by TRC on May 16, 2000, and revised June 30, 2005 (Volume #2 of the 2005 Engineering Report). The source site review process was modified over time as compared to the original process outlined in the various engineering reports and permit modification requests. The process generally consisted of the following main components:

- NYCDPR would notify the IEM of a new potential source site. NYCDPR would provide the IEM with the site name and location as well as any available historical site information and soil environmental analytical results that existed for the potential source site.

- Once NYCDPR confirmed that their desire to move forward with pursuing the potential source site, NYCDPR authorized the IEM to retrieve available site information. NYCDPR then completed an initial review of the existing site information, generated a sampling plan, and provided the results of the initial review and sampling plan to the IEM. NYCDPR then authorized the IEM to conduct a desktop review of the existing site information, available soil environmental analytical results, and NYCDPR's sampling plan. The IEM provided NYCDPR with comments related to their review and their sampling plan in consultation with NYSDEC. Once a final sampling plan was agreed upon, the source site investigation was initiated and executed per the NYCDPR sampling plan with IEM oversight. For source sites with in-situ material, test pits

were typically completed with additional soil samples inspected, collected, and analyzed in accordance with the Permit requirements. Once the sampling was completed, the IEM reviewed sample results and the IEM generated a memorandum summarizing the review process and provided recommendations and requirements necessary for NYCDPR to address in order to continue pursuing the potential source site. The recommendations typically included conditions associated with overseeing the excavation, loading, and importing of the source site material to the Site in accordance with the Permit. The IEM submitted the memo of recommendations to NYSDEC for review and comment prior to issuing the final memorandum to NYCDPR. NYSDEC would provide final comments and approval of the source site with any additional required conditions.

- If NYCDPR determined that the potential source site was worth pursuing considering site-specific conditions, schedules, etc., they coordinated with the source site operator and IEM on importation schedule and requirements. The IEM provided oversight to confirm that the loading, hauling, and overall import of the approved material was completed in accordance with the memorandum of recommendations, NYSDEC conditions, and the Permit.

- The IEM provided oversight during export from the approved source sites on an as needed basis and provided oversight at each source site during additional sampling activities if the source site was exporting more than the minimum sampling frequency outlined in the Permit (i.e. 10,000 cubic yards for shaping layer material and 2,000 cubic yards for cover layer material).

If at any time during the review process there were reasons for concern identified by the IEM resulting in the potential source site being classified as a "complex" source site, NYSDEC became the primary reviewer and made final recommendations related to additional site investigation requirements or approval/rejection of the potential source site with support from the IEM. A complex source site was defined by the presence of an abundance of or particular Recognized Environmental Concerns ("RECs") and NYSDEC made decisions related to approval and/or associated conditions for further evaluation or import of the fill material.

For both source sites used in this Construction Project, no complex source site determinations were made.

Details of source site review and site testing activities are included in the report text and specific DORs. Source site review supporting information and testing data is included in the 2015 Final Construction Certification Report.

C. Cover Layer Material

Materials accepted for use as cover layer on the Site were sampled prior to acceptance and after each additional 2,000 cubic yards. As per the 2005 Permit modification, the parameters for cover layer material included the complete analyte list of TAGM 4046 for total VOCs, total SVOCs, total pesticides and herbicides, total PCBs, total metals, sulfur, and asbestos.

Based on source site reviews and site testing activities, the cover layer material imported to the Site met the following chemical limits:

Analyte	Shaping Layer
RCRA Metals (mg/kg = ppm)	
Arsenic	28
Barium	2,000
Cadmium	20
Chromium	1,000
Copper	1,000
Lead	400
Mercury	0.57
Selenium	11
Silver	100
TCLP Metals (mg/l)	
Arsenic	5.0
Barium	100.0
Cadmium	1.0
Chromium	5.0
Lead	5.0
Mercury	0.2
Selenium	1.0
Silver	5.0
Volitile Organic Compounds (mg/kg)	
Acetone	0.2
Benzene	0.06
Benzoic Acid	2.7
2-Butanone (i.e. MEK)	0.3
Carbon Disulfide	2.7
Carbon Tetrachloride	0.6
Chlorobenzene	1.7
Chloroethane	1.9
Chloroform	0.3
Dibromochloromethane	N/A
1,2-Dichlorobenzene	7.9
1,3-Dichlorobenzene	1.6
1,4-Dichlorobenzene	8.5
1,1-Dichloroethane	0.2
1,2-Dichloroethane	0.1
1,1-Dichloroethene	0.4
1,2-Dichloroethene (trans)	0.3
1-3 dichloropropane	0.3
Ethylbenzene	5.5
113 Freon (1,1,2 Trichloro-1,2,2 Trifluoroethane)	6
Methylene chloride	0.1
4-Methyl-2-Pentanone (i.e. MIBK)	1
Tetrachloroethene	1.4
1,1,1-Trichloroethane	0.8
1,1,2,2-Tetrachloroethane	0.6
1,2,3-trichloropropane	0.4
1,2,4-trichlorobenzene	3.4
Toluene	1.5
Trichloroethene	0.7
Vinyl chloride	0.2
Xylenes	1.2
TCLP Volitile Organic Compounds (mg/l)	
Benzene	0.5
Carbon Tetrachloride	0.5
Chlorobenzene	100
Chloroform	6
1,4-Dichlorobenzene	7.5
1,2-Dichloroethylene	0.5
1,1-Dichloroethylene	0.7
Methyl ethyl ketone	200
Tetrachloroethylene	0.7
Trichloroethene	0.5
Vinyl chloride	0.2

Semi-Volatile Organic Compounds * (mg/kg)	
Acenaphthene	N/A
Acenaphthylene	N/A
Aniline	N/A
Anthracene	N/A
Benzo(g,h,i)perylene	N/A
bis(2-ethylhexyl)phthalate	N/A
Butylbenzylphthlate	N/A
4-Chloroaniline	N/A
4-Chloro-3-methylphenol	N/A
2-Chlorophenol	N/A
Dibenzofuran	N/A
3,3'-Dichlorobenzidine	N/A
2,4-Dichlorophenol	N/A
2,4-Dinitrophenol	N/A
2,6 Dinitrotoluene	N/A
Diethylphthlate	N/A
Dimethylphthlate	N/A
Di-n-butyl phthalate	N/A
Di-n-octyl phthlate	N/A
Fluoranthene	N/A
Fluorene	N/A
Hexachlorobenzene	N/A
Isophorone	N/A
2-methylnaphthalene	N/A
2-Methylphenol	N/A
4-Methylphenol	N/A
Naphthalene	N/A
Nitrobenzene	N/A
2-Nitroaniline	N/A
2-Nitrophenol	N/A
4-Nitrophenol	N/A
3-Nitroaniline	N/A
Pentachlorophenol	N/A
Phenanthrene	N/A
Phenol	N/A
Pyrene	N/A
2,4,5-Trichlorophenol	N/A
Dibenzo(a,h)anthracene	10
Benzo(a)pyrene	10
Benzo(a)anthracene	10
Benzo(b)fluoranthene	10
Ideno(1,2,3-cd)pyrene	10
Benzo(k)fluoranthene	10
Chrysene	10
Total SVOCs	500
Total cVOCs	10
Organic Pesticides/Herbicides and PCBs (mg/kg)	
Aldrin	N/A
alpha-BHC	N/A
beta-BHC	N/A
delta-BHC	N/A
Chlordane	N/A
2,4-D	N/A
4,4'-DDD	N/A
4,4'-DDE	N/A
4,4'-DDT	N/A
Dibenzo-P-dioxins (PCDD) 2,3,7,8 TCDD	N/A
Dieldrin	N/A
Endosulfan I	N/A
Endosulfan II	N/A
Endosulfan Sulfate	N/A
Endrin	N/A
Endrin keytone	N/A
gamma-BHC (Lindane)	N/A
gamma-chlordane (trans chlordane)	N/A
Heptachlor	N/A
Heptachlor epoxide	N/A
Methoxychlor	N/A
Mitotane (2,4' DDD)	N/A
Parathion	N/A
PCBs	N/A
Polychlorinated dibenzo-furans (PCDF)	N/A
Silvex	N/A
2,4,5-T	N/A
Total PCBs	10
Total Pesticides	10
Other	
Asbestos	0.50%
Total Sulfur	0.50%

N/A = Not Available
SB = Site Background
* = Total SVOCs must be less that 500ppm. Total carcinogenic SVOCs must be less than 3 ppm if any one of the cSVOCs** exceeds TAGM.
** = cSVOC list includes: Benzo(a)pyrene, Dibenzo(a,h)anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Indeno(1,2,3-cd)pyrene, Benzo(k)fluoranthene, and Chrysene.
*** = Some forms of Cyanide are complex and very stable while other forms are pH dependent and hence are very unstable. Site-specific form(s) of Cyanide should be taken into consideration when establishing soil cleanup objective
**** = Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.
MDL = Method Detection Limit

a. New York Recycling

Details of the New York Recycling (475 Exterior Street, Bronx NY) source site review and site testing for this cover layer material source site are included in the DORs. Analytical sampling and testing was completed at the site in September 2017. A site inspection was performed concurrently with the sampling event.

Approximately 1,062 cubic yards of cover layer material were imported to the Site from this source site for construction of the permanent clubhouse between November 2017 and March 2018. The majority of the material was used to raise the grade elevation in the immediate vicinity of the Clubhouse foundation and the landscape beds surrounding same.

b. Ranco Sand & Stone

The source site review for Ranco Sand & Stone (151 South Street, Manorville NY) consisted of an August 25, 2018 site visit to collect samples of this cover layer material for laboratory analysis; results are included in **Appendix N**. Results indicated that analyzed parameters met the permit standards.

Approximately 690 cubic yards of cover layer material were imported to the Site from this source site for cover material related to the gas main installation project.

D. On-Site Fill Importation Inspections

c. Process

As required under Special Condition 24 of the 2014 Permit, fill importation was inspected at the Site by the IEM. Fill material volume (truck volume) was measured and recorded for each delivery of fill material as it arrived on-site by NYCDPR's appointed representative. The fill material was then inspected by the IEM at the entrance to the Site. At this time, the fill material was visually inspected and field screened for signs of contamination. The visual inspection included observations of the material, disturbing the material with a shovel, and close-up observations of the material retrieved by shovel while still in the truck or trailer. Field screening of the fill material was executed using a PID. If the fill material failed to meet the Permit requirements for reasons such as a PID reading above ambient air, the presence of asphalt, concrete or brick components, or some other unauthorized debris, the load was rejected immediately prior to dumping. If the material was rejected, the truck was not allowed to dump on-site and was directed to exit the site immediately.

During the material imports for the Clubhouse and the gas main installation project, the IEM found no reason to reject the imported loads. Loads met the visual and field screening tests and were subsequently accepted.

If the fill material passed the initial inspection at the IEM observation area, either it was allowed to dump directly at a work location for immediate use as cover layer material or it was transported to, and dumped at, a stockpile location. At the dump location, the IEM screened the fill material visually and with a PID for a second time prior to spreading if dumped at an active work location. If the fill material did not meet the permit requirements at the dump location, it was immediately rejected, loaded back onto the same truck, and transported off-site. During the material imports for the Clubhouse and the gas main installation project, the IEM found no reason to reject the imported loads. Loads met the visual and field screening tests and were subsequently accepted.

d. Trucking Manifests

Trucking manifests were utilized for imported cover layer materials. A three-part manifest form was completed to track each load of material from origination at the source site to destination at the Site. The manifest contained information including but not limited to a manifest number, the source site name and address, the truck driver's name, truck and trailer license plate numbers, volume of material, as well as the time of departure from the source site and arrival time at the Site. Copies of fill import manifests are provided in **Appendix K**.

e. Rejected Trucks & Materials

Materials imported to the Site met the IEM's importation inspections, and none were rejected.

E. Fill Tracking

Testing per 2,000 cubic yards for cover layer material is included in Special Condition 14 of the 2014 Permit).

Cover layer material volumes were tracked based upon the calculated volumes within each truck. This provided for the most accurate and consistent approach to monitoring the volume of imported fill materials. Prior to receipt of the calculated volumes, the IEM tracked estimated volumes as trucks dumped on the Site.

The total volume of cover layer material imported to the Site for construction of the permanent clubhouse was 1,530 cubic yards (truck volume) or 0.39 percent of the authorized amount under the Permit.

F. Total Carcinogenic Semi-Volatile Organic Compound Tracking

As identified in Special Condition 14 of the 2014 Permit, the NYSDEC Acting Regional Director letter dated October 25, 2006 authorized the import of shaping material with a total carcinogenic SVOC (tcSVOC) level of up to 10 parts per million (ppm), which would not otherwise be acceptable, provided the tcSVOC weighted average of all imported material is equal to or less than 3 ppm at the end of each quarter. The tcSVOC weighted average is defined as the sum of the products of the material volume and the material tcSVOC, for each material source, divided by the total volume of the material imported. The weighted average was calculated over the course of construction and the final weighted average for shaping layer and cover layer materials imported to the Site was 0.70 ppm, less than the 3 ppm maximum. The total carcinogenic SVOC weighted average table and computations are included in the 2015 Final Construction Certification Report for materials imported to the Site after November 18, 2005.

SVOCs were sampled for New York Recycling on September 28, 2017. The tcSVOC level did not exceed 10 ppm. A copy of the laboratory report is provided in **Appendix J**.

SVOCs were sampled for Ranco Sand & Stone on August 25, 2018. The tcSVOC level did not exceed 10 ppm. A copy of the laboratory report is provided in **Appendix N**.

IV. PERMANENT CLUBHOUSE CONSTRUCTION

A. General

From July 2017-September 2018, Trump Golf Links at Ferry Point constructed a permanent clubhouse facility. The 14,100 square foot one-story building is located in the far southern section of the Site (immediately west of the 18th fairway) and includes locker rooms, showers, a bar room, a kitchen and associated facilities, ballrooms, administrative offices and a golf pro shop. The Trump Organization contracted with JCS Construction, Inc. to build this facility on piles, as it was formerly a landfill.

B. Environmental Controls / Construction

a. Landfill Gas Monitoring

Steel beams were driven to intermediate depths of approximately 40 feet, welded to another steel beam of the same length, driven to completion depths of approximately 75 feet, then cut to grade. Prior to welding/cutting, the piles were checked at the inlet (i.e. ground surface elevation) with a four-gas MiniRAE Meter. The meter alarm was triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) were above OSHA exposure limits; the alarm was not triggered for the vast majority of field activities, and on the few occasions when triggered, soil was placed over the inlet until the meter alarm was not triggered prior to welding/cutting activities. As an added measure of protection, when the meter alarm activated, explosion-proof industrial ventilation fans were activated to vent the work area and disperse gases emanating from the subsurface.

b. Imported Soils Monitoring

Fifty-nine (59) loads of soil (approximately 1,062 cubic yards) were imported from New York Recycling, a donor source located at 475 Exterior Street in the Bronx; and 27 loads of soil (approximately 690 cubic yards) were imported from Ranco Sand & Stone, a donor source located at 151 South Street in Manorville NY. Air monitoring performed during the course of the workday revealed no detections above background on the PID. Visual observation and PID monitoring of each load of soil from New York Recycling and from Ranco Sand & Stone showed no evidence of VOCs or visual signs of debris within the material.

C. Municipal Solid Waste

A Royal Carting commercial municipal solid waste (MSW) six-yard container was available on Site during the duration of clubhouse construction activities. MSW was not encountered or generated during digging, earth-moving or excavation activities associated with the new clubhouse or the gas main installation activities.

D. Earthwork / Fill Placement

Earthwork and fill placement for this Project were performed in accordance with the Permit.

a. Cover Layer Material

Cover layer material was installed at the Site in accordance with the 2014 Permit (**Appendix A**).

Imported soil from New York Recycling and from Ranco Sand & Stone was backfilled and graded around the perimeter of the concrete sub-structure. The soil from New York Recycling was characterized as brown fine-coarse sand with occasional crushed stone roughly 1-1.5 inches in diameter. Materials imported from Ranco Sand & Gravel was characterized as clean, well-rounded white to gray medium sands.

b. Topsoil

Topsoil was used on the Site (in lieu of sand) specifically in tree planting pits and other landscape areas. Topsoil was imported from commercially available sources (i.e. Home Depot) and used on the Site as approved. This material met the cover layer material Permit requirements including the specification included in the 2014 Permit.

E. Meetings

On a weekly basis during construction of the permanent clubhouse, progress meetings were held in the JCS field office trailer or in the temporary clubhouse on site. Various representatives from NYCDPR, the Trump Organization, JCS and the IEM (Maser Consulting) attended the meetings to discuss construction progress, current issues and scheduling.

Available meeting minutes from construction progress meetings are provided in **Appendix M**.

F. SSDS / Liquid Boot® Installation

From November 2-7, 2017 the SSDS was installed. Lateral collection piping was laid, and the SSDS pits were excavated and connected to the lateral collection piping. The IEM provided oversight, including taking measurements of the as-built SSDS component installed locations for use in this report.

Stone cover was then poured over the SSDS prior to Liquid Boot® installation.

From November 8-15, 2017 the stone cover was lined (base fabric), sprayed with Liquid Boot®, and allowed to cure. Smoke testing was then performed, with leaks identified and resprayed. Coupon samples were measured to ensure that the cured thickness met the design requirement. Once smoke testing, coupon measurements and leak repairs were complete, a cover fabric was placed over the floor footprint prior to pouring the slab.

On two separate occasions after the initial spraying, curing and smoke testing of the vapor barrier, repairs had to be made to the barrier layer. IEM observations of damage to the cover fabric provided the impetus for additional spraying and testing. The first event took place in January/February of 2018 when weather conditions and mild temperatures prevailed. A final smoke test and barrier layer repair took place before the concrete floor was poured and once the Clubhouse was being enclosed. During both re-spray events, defects were located, repaired and re-tested for integrity. Like the previous smoke tests, the final smoke test indicated no signs of vapor barrier leaks, tears or defects.

On one occasion, Liquid Boot® was sprayed at temperatures below the recommended 45 degrees F. However, it was determined by experienced applicators and inspectors—based on site specific conditions—that the curing of the spray was acceptable. See documentation from CETCO/Minerals Technologies (the Liquid Boot® manufacturer) dated November 9, 2017 (**Appendix P**).

A letter of completion provided by EAI is provided in **Appendix P**.

G. Six-Inch Gas Main Construction

In July 2018, the existing 2-inch gas service line was determined by FPA engineers to be insufficient to support the demands of the new Clubhouse facility. A new 6-inch gas main was required to meet the demand. Installed between August and October 2018, the new main provides sufficient volumes of natural gas to support the new Clubhouse facility and its amenities.

The new gas line was connected to a Con Ed main located on Schley Drive, north of the golf course. The new pipeline runs along the western perimeter of the site along fairways #6, #7 and #8. The line doglegs to the west side of the maintenance area and generally follows the service cart path along the west side of the property. The line turns to the east toward the new Clubhouse in the general vicinity of the parking lot.

The service connection to the Clubhouse is located in a vault approximately 50 feet west of the Clubhouse, near the driveway entrance.

Architect drawings for this gas main are provided in **Appendix Q**. DORs are provided in **Appendix R** beginning on August 24, 2018 through October 22, 2018.

H. Record Drawings & Deviations from Approved Design Plans

The permanent clubhouse project consisted of the following features and was designed by Hart Howerton and FPA:

- Golf pro shop
- Women's and men's locker rooms
- Dining room
- Bar/grill
- Kitchen
- Terraces
- Offices
- Vestibule and porch
- SSDS/Vapor Barrier

Deviations to the permanent clubhouse construction project were as follows:

- Drawing No. FO-500.00 "Vapor Remediation Underslab Plan" – lateral piping to SSDS pits DP-2B & DP-2C built approximately 2 feet offset from design due to piping conflicts
- Drawing No. FO-501.00 "Vapor Remediation Floor Plan" – riser piping for fan units SF-1 & SF built within walls to conceal system and prevent unauthorized access; gas sensors in Hall 124, Vestibule 101 & Electrical 113 ceilings built approximately 3-5 feet from design due to piping conflicts; monitoring point MP-1 built approximately 9 feet from design due to piping conflicts; monitoring point MP-8 built approximately 50 feet from design due to piping conflicts; monitoring point MP-9 built approximately 14 feet from design due to piping conflicts; monitoring point MP-10 built approximately 14 feet from design due to piping conflicts; monitoring point MP-2 was installed at the location shown in the Plan, however, it appears to have been tiled-over and is no longer accessible as a sampling point
- Drawing No. FO-502.00 "Vapor Remediation Attic & Mezzanine Plan" – fan unit SF-1 built approximately 10 feet to the left of design due to piping conflicts
- Drawing No. FO-504.00 "Vapor Remediation Details" – detail 1B built using hollow (instead of solid) concrete blocks; 'Methane Gas Sensor Detail (option 1)' & 'Methane Gas Sensor Detail (option 2)' added for sensor plenum boxes
- Drawing No. SD201 "Methane Monitoring System Ceiling Plan (As Built)" – methane gas sensor S16 built approximately 5 feet from design due to piping conflicts; methane gas sensor S19 built approximately 4.5 feet from design due to piping conflicts; methane gas sensor S28 built approximately 5 feet from design due to piping conflicts

Copies of the drawings issued for construction are provided in **Appendix C**. Copies of the drawings showing deviations from design are provided in **Appendices E and O**.

V. ENVIRONMENTAL MONITORING

A. Stormwater Pollution Prevention Plan (SWPPP)

The IEM performed weekly erosion control inspections to ensure compliance with Permit requirements. Erosion control inspections were carried out through the duration of permanent clubhouse construction. The SPDES permit remained effective until completion of ongoing construction including the permanent clubhouse. Copies of erosion control inspection reports are provided in **Appendix H**.

B. Landfill Gas Monitoring

NYCDPR will implement post-construction monitoring necessary to fulfill the requirements of the Post-Construction Custodial Care Plan for landfill gas monitoring per the 2015 Final Construction Certification Report.

VI. SUMMARY

Construction of a permanent clubhouse in the southern corner of the Site began in July 2017 and was substantially completed in October 2018. Activities included clearing and grubbing, excavation, installation of support pilings, grading, importation of fill material, construction of the permanent clubhouse with a protective vapor barrier system and associated SSDS and associated appurtenances, installation, testing and calibration of an interior methane detection system, installation of utilities and infrastructure, installation of plantings, and installation of a new gas main. A representative of the IEM was present during construction activities. For this project, fill importation and SSDS/Vapor Barrier construction followed the Permit and NYSDEC requirements as documented in the DORs as summarized herein.

VII. CERTIFICATION

Certification Statement

I, Donald Bowman, an employee of Maser Consulting P.A. and a Registered Professional Engineer licensed by the State of New York, exercising independent judgment and discretion do hereby certify that this Subslab Depressurization System (SSDS) for the Trump Golf Links at Ferry Point Clubhouse was constructed under my direction and supervision. The information contained herein is based upon: (1) work which I have personally inspected both during and after construction from July 2017 to date; (2) information provided to me by those directly employed by Maser Consulting P.A.; (3) Design Consultants; and (4) contractors responsible for construction pursuant to their contracts except as indicated[2].

I certify that, from July 2017 to date, Maser Consulting representatives observed the installation of the critical elements of the SSDS for the Trump Golf Links at Ferry Point Clubhouse, with the following deviations from design:

- Drawing No. FO-500.00 "Vapor Remediation Underslab Plan" – lateral piping to SSDS pits DP-2B & DP-2C built approximately 2 feet offset from design due to piping conflicts
- Drawing No. FO-501.00 "Vapor Remediation Floor Plan" – riser piping for fan units SF-1 & SF built within walls to conceal system and prevent unauthorized access; gas sensors in Hall 124, Vestibule 101 & Electrical 113 ceilings built approximately 3-5 feet from design due to piping conflicts; monitoring point MP-1 built approximately 9 feet from design due to piping conflicts; monitoring point MP-8 built approximately 50 feet from design due to piping conflicts; monitoring point MP-9 built approximately 14 feet from design due to piping conflicts; monitoring point MP-10 built approximately 14 feet from design due to piping conflicts; monitoring point MP-2 was installed at the location shown in the Plan, however it appears to have been tiled-over and is no longer accessible as a sampling point
- Drawing No. FO-502.00 "Vapor Remediation Attic & Mezzanine Plan" – fan unit SF-1 built approximately 10 feet to the left of design due to piping conflicts
- Drawing No. FO-504.00 "Vapor Remediation Details" – detail 1B built using hollow (instead of solid) concrete blocks; 'Methane Gas Sensor Detail (option 1)' & 'Methane Gas Sensor Detail (option 2)' added for sensor plenum boxes

[2] Certification means a statement of professional opinion based upon investigation, analysis, knowledge and belief that is stated to be true and accurate. 6 NYCRR Part 360-1.2(b)24.

- Drawing No. SD201 "Methane Monitoring System Ceiling Plan (As Built)" – methane gas sensor S16 built approximately 5 feet from design due to piping conflicts; methane gas sensor S19 built approximately 4.5 feet from design due to piping conflicts; methane gas sensor S28 built approximately 5 feet from design due to piping conflicts

STATE OF NEW YORK
DONALD F. BOWMAN
No. 095674
LICENSED PROFESSIONAL ENGINEER

Donald Bowman, P.E.
Maser Consulting P.A.

11/26/2019
Date

\\njncad\Projects\17002426A\Reports\Construction As-Built Report - Aug 2018\191126 Trump Ferry Point Clubhouse As-Built Report.docx

APPENDIX A

6 NYCRR Part 360 Permit for Ferry Point Park
(NYSDEC Permit No. 2-6006-00014 / 00013
with an Effective Date May 21, 2014 and Expiration Date May 20, 2024)

New York State Department of Environmental Conservation
Division of Environmental Permits, Region 2 Office
47-40 21ST Street, Long Island City, NY 11101-5407
Phone: (718) 482-4997 • **Fax:** (718) 482-4975

Joe Martens
Commissioner

May 21, 2014

Kay Zias
Capital Projects
City of New York Parks and Recreation
Olmstead Center
Flushing Meadows-Corona Park
Flushing, N.Y. 11368

Re: DEC No. 2-6006-00014/000013 (2-6006-00014/00016)
Permit Issuance - Solid Waste Management Facility (Tidal Wetlands)
Ferry Point Park Golf Course, Bronx, NY

Dear Ms Zias:

Enclosed are permits for the referenced facility. Please read all conditions carefully. Please provide a copy of the permit and all attachments to the document repository established for this project.

Special Conditions 28, 29, 32, 37, 38 and 39, among others, specify post permit submittals, please make a note of the submission deadlines. To assist the development of a deed restriction for the project site, Attachment A, to this notice contains draft language of the conditions to be specified in the restrictive covenant.

If you have questions on the specific solid waste management conditions, please contact Sam Arakhan at 718-482- 4894. If you have questions regarding marine resources issues and the development of the waterfront park contact Susan Maresca at 718-482-6464. If you have any other questions regarding the administration of this permit, please contact Michelle Moore at 718-4982-4967.

Sincerely,

John F. Cryan
Regional Permit Administrator

Enclosures

S. Arakhan, DMM, R2
K. Brezner, DMM, R2
D. Menasha, DAR, R2
S. Maresca, DMR, R2
J. Nehila, Esq., DLA, R2
S. Zacharias, DOW, R2
M. Moore, DEP, R2
File

ATTACHMENT A

DECLARATION OF COVENANTS AND RESTRICTIONS

THIS COVENANT made this __ day of _____, 2014, by the City of New York ("City"), a municipal corporation organized and existing under the laws of the State of New York, acting by and through the New York City Department of Parks and Recreation ("DPR") and having an office for the transaction of business 830 Fifth Avenue, New York, New York, 10021, and the New York City Department of Citywide Administrative Services ("DCAS"), having an office for the transaction of business at 1 Centre Street, New York, New York, 10007, in favor of the New York State Department of Environmental Conservation ("Department"), an agency of the State of New York, with offices at 625 Broadway, Albany, New York, 12233;

WHEREAS, DPR has jurisdiction pursuant to the New York City Charter over certain municipal parkland in the Borough and County of the Bronx, New York, known as "Ferry Point Park", which was the site of a former municipal landfill;

WHEREAS, pursuant to the New York State Environmental Conservation Law, Article 27, Title 7 and regulations promulgated pursuant thereto at 6 NYCRR Part 360, the Department has issued DPR a Solid Waste Management Permit (DEC Permit No. 2-6006-00014/00013-0)(the "Permit"), annexed hereto as Attachment A, to construct a Golf Course, Community Park and Waterfront Park (hereinafter "the Project") on the eastern portion of Ferry Point Park, a 222 acre parcel bounded by Bronx-Whitestone Bridge to the West, Balcom, Miles and Emerson Avenues to the East, Schley Avenue and St. Raymond's Cemetery to the North and the East River to the South (the "Site"), said parcel comprising Block 5583, Lot 100 and a portion Block 6522, Lot 1, as shown on the Bronx County Tax Map and more particularly depicted on the map attached hereto as Attachment B;

WHEREAS, the Permittee is authorized to import a total of 2,514,000 cubic yards of in-place fill material to the Site, which fill material shall consist of approximately 2,120,000 cubic yards of select exempt construction and demolition (C&D) debris for the shaping layer, and approximately 394,000 cubic yards of cover material, to be used in constructing the Project;

WHEREAS, Special Condition 17 requires the Permittee to implement a Groundwater Monitoring Program as described in section 4.5 of the Supplemental Engineering Report, Volume 1, dated October 15, 2013 (hereinafter the "Supplemental Engineering Report");

WHEREAS, Special Condition 26 requires the Permittee to perform monthly monitoring of the Landfill Gas Passive Venting Trenches for the duration of the Permit, and, thereafter, to monitor the Landfill Gas Passive Venting Trenches as described in the Supplemental Engineering Report, Volume 3, Appendix F;

WHEREAS, Special Condition 28 requires the Permittee, during the duration of the Permit, to inspect the Landfill Gas Passive Venting Trenches monthly to verify the integrity of the venting trenches and their mulch cover, and, thereafter, to maintain the Landfill Gas Passive Venting Trenches after the completion of construction of the Project, in the manner described in the Supplemental Engineering Report, Volume 3, Appendix F;

WHEREAS, Special Condition 29 requires the Permittee, until the completion of the Project, to conduct monthly monitoring of the depth of ground water in each piezometer installed at the gas venting trenches, and, thereafter, such piezometer monitoring shall be performed in accordance with the Supplemental Engineering Report, Volume 3, Appendix F, Section 6;

WHEREAS, Special Condition 32 requires the Permittee to execute and file a Department approved deed restriction, which shall run with the land in perpetuity, and shall recite and require compliance with the Permit's provisions as regards to the custodial care requirements described in the Supplemental Engineering Report, Volume 3, Appendix I;

WHEREAS, Special Condition 33 requires the Permittee to conduct bi-weekly monitoring of the On and Off-site Gas Monitoring Networks;

WHEREAS, Special Condition 34 requires the Permittee to maintain, and upgrade if required, the On and Off-site Gas Monitoring Networks during facility construction and after completion of the Project;

WHEREAS, Special Condition 35 requires the Permittee, upon Department approval of the Permittee's written post-construction certification report, to implement the custodial care plan described in the Supplemental Engineering Report, Volume 3, Appendix I;

WHEREAS, Special Condition 36 requires Permittee, should the Project be abandoned, to close, monitor and maintain after closure the entire 222 acre Site, in accordance with 6 NYCRR Sect. 360-2.15 as a landfill in operation since 2000;

WHEREAS, Special Conditions 17, 26, 28, 29, 33 and 34, require the installation, maintenance and operation of the Groundwater Monitoring Program, the Landfill Gas Passive Venting Trenches, the piezometers, and the On and Off-site Gas Monitoring Networks, on the perimeter of the site and off-site, for the purposes of monitoring groundwater and Landfill Gas and/or preventing Landfill Gas from migrating from the Site (hereinafter "Engineering Controls") said Engineering Controls being more particularly depicted on the map attached hereto as Attachment C.

WHEREAS, Special Condition 32 of the Permit requires the City of New York to execute and file a deed restriction for the real property beneath the site to run with the land in perpetuity, and that the deed restriction recites and requires compliance with the Permit's provisions as regards to Groundwater monitoring, the maintenance of Landfill Gas venting trenches, the piezometers, the On-site Landfill Gas Monitoring Network, including perimeter monitoring wells, the Off-site Landfill Gas Monitoring Network, and the criteria for abandonment of the site as specified in Special Condition 36 of the Permit;

NOW THEREFORE, pursuant to its terms, this covenant runs with the land and:

(1) requires the maintenance and operation of the Engineering Controls as set forth in Special Conditions 17, 26, 28, 29, 33 and 34 of the Permit;

(2) prevents modification or alteration of the Engineering Controls except as otherwise set forth in Special Conditions 17, 26, 28, 29, 33 and 34 of the Permit or in any subsequent written authorization by the Department or its successor agency;

(3) unless prior written approval by the Department or its successor agency is first obtained, there shall be no construction, use or occupancy of the Site that results in the disturbance or excavation of the Site which threatens the integrity of the Engineering Controls, or which results in unacceptable human exposure to contaminated soils;

(4) the owner of the Site shall not disturb, remove, or otherwise interfere with the installation, use, operation, and maintenance of Engineering Controls required by the Permit and the Supplemental Engineering Report, unless in each instance the owner first obtains a written waiver of such prohibition from the Department or its successor agency;

(5) the owner of the Site shall prohibit the Site from ever being used for purposes other than for the Project described in the Permit, without the express written waiver of such prohibition by the Department or its successor agency;

(6) the owner of the Site shall provide a periodic certification, prepared and submitted by a professional engineer or other environmental professional acceptable to the Department or its successor agency, which will certify that the Engineering Controls put in place are unchanged from the previous certification, comply with the Permit and the Supplemental Engineering Report, and have not been impaired;

(7) this Declaration is and shall be a covenant that shall run with the land and shall be binding upon all future owners of the Site, and shall provide that the owner and its successors and assigns consent to enforcement by the Department or its successor agency of the prohibitions and restrictions that the Permit requires be recorded, and hereby covenant not to contest the authority of the Department or its successor agency to seek enforcement;

(8) any deed of conveyance of the Site, or any portion thereof, shall recite, unless the Department or its successor agency has consented to the termination of such covenants and restrictions, that said conveyance is subject to this Declaration of Covenants and Restrictions;

(9) in the event that the Project is abandoned, requires closure, monitoring and maintenance of the Site as a landfill in operation since 2000, in accordance with 6 NYCRR Part 360-2.15 and Special Condition 36 of the Permit; and

(10) may be modified by mutual agreement of the City or its successors and the Department or its successor agency.

IN WITNESS WHEREOF, the undersigned have executed this instrument on the day(s) written below.

_____
New York City Department of Parks and Recreation

Sworn to before me
this ____ day of _____, 201__

_____
Notary Public

Approved as to form
this ____ day of _____, 201__

_____
Assistant Corporation Counsel

_____
Department of Citywide Administrative Services

Sworn to before me
this ____ day of _____, 201__

_____
Notary Public

Approved as to form
this ____ day of _____, 201__

_____
Assistant Corporation Counsel

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DEC PERMIT NUMBER:		EFFECTIVE DATE:
2-6006-00014/00013 (SW) 2-6006-00014/00016 (TW)	PERMIT Under the Environmental Conservation Law (ECL)	May 21, 2014
FACILITY: Ferry Point Park Golf Course		**EXPIRATION DATE:** May 20, 2024

TYPE OF PERMIT: ☐ New ☒ Renewal ☒ Modification ☐ Permit to Construct ☐ Permit to Operate

☒ Article 27, Title 7; 6 NYCRR 360: Solid Waste Management

☐ 6 NYCRR 608: Water Quality Certification

☐ Article 15, Title 15: Long Island Wells

☐ Article 17, Titles 7, 8: SPDES

☒ Article 25: Tidal Wetlands

☐ Article 15, Title 5: Protection of Waters

PERMIT ISSUED TO:	TELEPHONE :
Owner and Operator: NYC Department of Parks and Recreation	212-360-8111(NYCDPR)
ADDRESS OF PERMITTEE: NYCDPR, 830 5th Avenue, New York, NY 10021-7001	
CONTACT PERSON FOR PERMITTED WORK: Kay Zias	**TELEPHONE :** 718-760-6748

PROJECT/FACILITY NAME: Ferry Point Park Golf Course Construction

PROJECT/FACILITY ADDRESS: Eastern portion of Ferry Point Park, bounded by the Bronx Whitestone Bridge, Balcom, Miles and Emerson Avenues, Schley Avenue and the East River, Bronx County. Block 5583, Lot 100, Block 5622, Lot 1

DESCRIPTION OF AUTHORIZED ACTIVITY:

Construction of a Golf Course, Community Park and Waterfront Park on 222 acres of Ferry Point Park, requiring a total of approximately 2,514,000 cubic yards of material in-place volume. This material will be imported to the Site by truck and consist exclusively of: 1) recognizable and uncontaminated concrete or concrete products (including steel or fiberglass reinforcing rods that are embedded in the concrete), brick, soil, sand, gravel, and rock (hereafter referred to in this permit as select exempt construction and demolition debris) totaling approximately 2,120,000 in-place cubic yards for the shaping layer, and 2) approximately 394,000 in-place cubic yards of cover material. The imported material will be used to attain the final approved grades and contours.

All work associated with the authorized activity described above shall comply with all of the applicable provisions of 6 NYCRR Part 360 (Solid Waste Management Regulations), effective 29 September 1997. By acceptance of this permit, the Permittee agrees that this permit is contingent upon strict compliance with the ECL, all applicable regulations, and the General Conditions and Special Conditions included herein.

REGIONAL PERMIT ADMINISTRATOR:	ADDRESS:	
John F. Cryan	NYS Department of Environmental Conservation 47-40 21st Street, Long Island City, NY 11101	
AUTHORIZED SIGNATURE: John F. Cryan	DATE May 21, 2014	Page 1 of 17

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The Permittee has accepted expressly, by the execution of its application for the subject work, the full legal responsibility for all damages and costs, direct or indirect, of whatever nature and by whomever suffered, for liability it incurs resulting from activity conducted pursuant to this permit or in noncompliance with this permit and has agreed to indemnify and save harmless the State from suits, actions, damages, and costs of every name and description resulting from such activity.

Item B: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the Permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the subject work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

GENERAL CONDITIONS

General Condition 1: Facility Inspection by the Department

The subject facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the Permittee is complying with this permit and the ECL. Such representative may order the subject work suspended pursuant to ECL 71-0301 and SAPA 401(3).

The Permittee must provide a person to accompany the Department's representative during an inspection of the subject facility when the Department provides written or verbal notification to the Permittee at least 24 hours prior to such inspection.

A copy of this permit, including all general and special conditions therein, all amendments thereto, and all documents referenced therein must be available for inspection by the Department at the project site at all times that activity associated with the subject work is occurring. Failure to produce a copy of such permit, conditions, amendments, or documents upon request by a Department representative is a violation of this permit.

Any sign provided by the Department with this permit must be protected from the weather and posted in a conspicuous location at the subject work site throughout the period during which any of the subject work occurs.

General Condition 2: Relationship of this Permit to Other Department Orders and Determinations

Unless expressly provided for by the Department, this permit does not modify, supersede, or rescind any order or determination previously issued by the Department or any of the terms, conditions, or requirements contained in such order or determination.

General Condition 3: Applications for Permit Renewals or Modifications

The Permittee must submit a separate written application to the Department for renewal, modification, or transfer of this permit, including but not limited to a change in facility operator. Such application must include any forms or supplemental information the Department requires. Any renewal, modification, or transfer granted by the Department must be in writing. The Permittee must submit a renewal application at least:

a) 180 days before expiration of permits for State Pollutant Discharge Elimination System (SPDES), Hazardous Waste Management Facilities, major Air Pollution Control (APC) and Solid Waste Management Facilities; and
b) 30 days before the expiration of all other permit types.

Submission of applications for permit renewal, modification, or transfer are to be submitted to:
NYSDEC Regional Permit Administrator, Region 2, 47-40 21 Street, Long Island City, NY 11101 (tel. 718/482-4997).

General Condition 4: Permit Modifications, Suspensions, and Revocations by the Department

The Department reserves the right to modify, suspend, or revoke this permit when:

a) the scope of the permitted activity is exceeded or a violation of any condition of the permit or provisions of the ECL and pertinent regulations is found;
b) the permit was obtained by misrepresentation or failure to disclose relevant facts;
c) new material information is discovered; or
d) environmental conditions, relevant technology, or applicable law or regulation have materially changed since the permit was issued.

General Condition 5: Compliance with Other Regulatory Requirements

The Permittee is responsible for obtaining any other permits, approvals, lands, easements, and rights-of-way that may be required for the subject work. The Permittee and its independent contractors, employees, agents, and assigns must comply with all applicable local, State, and federal regulatory requirements.

General Condition 6: Permittee to Ensure that its Contractors to Comply with Permit

The Permittee must ensure that its independent contractors, employees, agents, and assigns read, understand, and comply with this permit, including all General and Special Conditions herein, in general, and General Condition No. 5, above, in particular. Such persons must be subject to the same sanctions for violations of this permit as those prescribed for the Permittee.

ADDITIONAL GENERAL CONDITIONS FOR ARTICLE 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

7. That if future operations by the State of New York require an alteration in the position of the structure or work herein authorized, or if, in the opinion of the Department it shall cause unreasonable obstruction to the free navigation of said waters or flood flows or endanger the health, safety or welfare of the people of the State, or cause loss or destruction of the natural resources of the State, the owner may be ordered by the Department to remove or alter the structural work, obstructions, or hazards caused thereby without expense to the State, and if, upon the expiration or revocation of this permit, the structure, fill, excavation, or other modification of the watercourse hereby authorized must not be completed, the owners, must, without expense to the State, and to such extent and in such time and manner as the Department may require, remove all or any portion of the uncompleted structure or fill and restore to its former condition the navigable and flood capacity of the watercourse. No claim shall be made against the State of New York on account of any such removal or alteration.
8. The State of New York must in no case be liable for any damage or injury to the structure or work herein authorized which may be caused by or result from future operations undertaken by the State for the conservation or improvement of navigation, or for other purposes, and no claim or right to compensation shall accrue from any such damage.
9. All necessary precautions must be taken to preclude contamination of any wetland or waterway by suspended solids, sediments, fuels, solvents, lubricants, epoxy coatings, paints, concrete, leachate, or any other environmentally deleterious materials associated with the project. Any creosote-treated lumber must be weathered for at least six months before it is brought to the subject work site.
10. Any material dredged in association with the work herein permitted must be removed evenly, without leaving large refuse piles, ridges across the bed of a waterway or flood plain, or deep holes that may have a tendency to cause damage to navigable channels, the banks of a waterway, water quality, sediment quality, or benthic habitat.
11. There must be no unreasonable interference with navigation by the work herein authorized.
12. If upon the expiration or revocation of this permit, the project hereby authorized has not been completed, the Permittee must, without expense to the State, and to such extent and in such time and manner as the Department may require, remove all or any portion of the uncompleted structure or fill and restore the site to its former condition. No claim shall be made against the State of New York on account of any such removal or alteration.
13. If granted under Article 36, this permit does not signify in any way that the project will be free from flooding.
14. If granted under 6 NYCRR Part 608, the Department hereby certifies that the subject project will not contravene effluent limitations or other limitations or standards under Sections 301, 302, 303, 306, and 307 of the Clean Water Act of 1977 (PL 95-217) provided that all of the conditions listed herein are met.
15. In accordance with Title 19, Part 600.4 (c) of the New York Code of Rules and Regulations, the Department hereby certifies that the action described and approved in this permit, if located within the Coastal Zone, is consistent to the maximum extent practicable with the policies and purposes of the New York City Waterfront Revitalization Program.

SPECIAL CONDITIONS

Site Work

1. All activities authorized by this permit shall conform to all documents supporting the original permit, DEC No. 2-6006-00014/00011, dated July 17, 2000 ,and modified October 18, 2002 , November 18, 2005 and December 27, 2005 as modified by the following:

- Technical Environmental Assessment for the Ferry Point Park Recreation Facility prepared by Allee, King, Rosen and Fleming dated February 11, 2002 and amended September 29, 2004;
- Geotechnical Engineering Study prepared by Langan Engineering and Environmental Services, Inc. dated July 2, 2002;
- Response to Request for Additional Information prepared by TRC Raymond Keyes Associates dated July 2, 2002;
- Fill Procurement Protocol shall be as per the Department letters dated May 21, 2001 and May 23, 2001 from John Nehila to Steve Kass;
- Ferry Point Park: Offsite Methane Monitoring-Bronx, New York prepared by AKRF, Inc., October 12, 2001;
- Landfill Gas (LFG) Passive Vent Trench Along Miles And Emerson Avenues Plan and Detail, V-1, Sheet 1 of 4 prepared by TRC with checked date 02/04/02 ;
- Landfill Gas (LFG) Passive Vent Trench Along Balcom, Miles And Schley Avenues Plan and Detail, V-2, Sheet 2 of 4 prepared by TRC with checked date 02/04/02 ;
- Landfill Gas (LFG) Passive Vent Trench Along Northern Property Boundary Plan and Detail, V-3, Sheet 3 of 4 prepared by TRC with checked date 02/04/02;

SPECIAL CONDITIONS
ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

- LFG Vent Trench and Piezometer Network Profile, V-4, Sheet 4 of 4 prepared by TRC with checked date 02/04/02;
- Landfill Gas (LFG) Passive Vent Trench Along Balcom, And Schley Avenues Plan and Detail, C-2, Sheet 1 of 1 prepared by TRC with checked date 07/20/01;
- Landfill Gas (LFG) Passive Vent Trench Along Balcom between Sampson & Dewey Avenues Plan and Detail, C-1, Sheet 1 of 1 prepared by TRC with checked date 03/09/01;
- Volume#1, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY, Engineering Report, prepared by TRC Raymond Keyes Associates, dated June 30, 2005. (revised)
- Volume #2, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY, Engineering Report, prepared by TRC Raymond Keyes Associates, dated June 30, 2005.
- Settlement Evaluation and Long Term Monitoring Plan, Ferry Point Golf Course, Ferry Point Park, Bronx, NY, prepared by Langan Engineering and Environmental Services, Inc., dated January 26, 2005.
- Response to Department Comments prepared by TRC Raymond Keyes Associates, dated August 2, 2005 and by Langan Engineering and Environmental Services, Inc., dated June 30, 2005.
- Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY, "Second Supplement to Engineering Report," prepared by TRC Raymond Keyes Associates, dated August 23, 2004.
- Site plans labeled "Ferry Point Park Public Recreational Facility Bulk Earthwork, Ferry Point Park Public Recreation Facility, Ferry Point Park, Bronx, New York" prepared by TRC Raymond Keyes Associates, dated April 22, 2005 (revised) consisting of drawings:

    - GC-2, G1 and G-2 dated 7/01/05 (last revised);
    - G-3, and G-4 dated 1/21/05 (last revised);
    - D-1 dated 7/1/04 (last revised);
    - D-2 dated 7/1/05 (last revised);
    - V-1, V-2, V-3 and V-4 dated 02/04/04 (last revised);
    - C-1 dated 3/09/01 (last revised);
    - C-2 dated 7/20/01;
    - SW-1.00 dated 4/13/04;
    - SW 1A.01 dated 2/18/04;
    - SW 1B.01 and SW 1b.02 dated 4/13/04;
    - Irrigation Design Phase 1 Ferry Point Park Approval Set, labeled "Ferry Point Park 0514-AS-R04-060704, Phase 1 Approval Set" dated 06/07/04 (last revised), sheets numbered 1, 2, 3 and 4 dated 5/22/03 and sheets numbered I, II and III dated 5/22/03

- Supplemental Engineering Report for the Solid Waste Management Facility Permit Application for Ferry Point Park East Bronx, NY, Vol. 1 - 3 dated May 31, 2012 and last revised October 15, 2013.

SPECIAL CONDITIONS
ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

2. Activities authorized by this permit include development of a golf course and parks, as well as the construction of associated structures, utility lines, gas venting and control systems. All aspects of the project must be constructed in accordance with the Department approved design plans, specifications and documents noted in Special Condition # 1. All physical aspects of the project including project location referenced in this permit shall be referred to as the "Site." All construction aspects of the permitted activities referenced in this permit shall be referred to as the "Project."

3. In accordance with "Item A" of the Notification of Other Permittee Obligations" found on page 2 of this permit, the Department in general accepts no liability for the structural integrity and/or the adequacy of the buildings and/or foundation designs of the proposed buildings or other structures associated with the development of the golf course. In addition, the Department specifically does not guarantee nor accept liability in regards to the measures proposed to prevent the subsidence of any buildings, foundations and other structures built on or adjacent to the Site, or to prevent the migration of explosive gas.

4. All operations at the Site shall occur Monday through Saturday during daylight hours, between sunrise and sunset, unless otherwise authorized by the Department.

5. All truck traffic entering and leaving the Site shall use only authorized truck traffic routes, and conform to the construction traffic management plans noted in Exhibit K of Volume #1, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, New York, Engineering Report, prepared by TRC Raymond Keyes Associates, dated June 30, 2005 (revised).

a) All truckers shall receive written instruction on the truck access routes to and from the Site.

b) All trucks entering the site shall be tarped or sufficiently covered to comply with local and state highway regulations. The Site access and exit routes shall be maintained so that they are free from dust, dirt and debris resulting from the truck traffic.

6. Short-term settlement monitoring must strictly conform to the recommendations listed in the Settlement Evaluation and Long Term Monitoring Plan, Ferry Point Golf Course Ferry Point Park, Bronx, NY, prepared by Langan Engineering and Environmental Services, Inc., dated January 26, 2005. As construction progresses and long term plates are installed, short term plates do not need to be re-installed.

7. The long-term settlement monitoring must strictly conform to the recommendations listed in the Settlement Evaluation and Long Term Monitoring Plan, Ferry Point Golf Course Ferry Point Park, Bronx, NY, prepared by Langan Engineering and Environmental Services, Inc., dated January 26, 2005.

a) The long-term monitoring shall be performed for locations shown in Appendix H of the October 15, 2013 supplemental engineering report as described in Appendix I of the October 15, 2013 supplemental engineering report.

b) All monitoring points must be maintained in proper working condition. If any points are unable to be sampled for any reason, they must be repaired within two weeks of such detection and re-tested.

Fill Importation

8. The Permittees are authorized to import a total of 2,514,000 cubic yards of in-place fill material to the Site. The fill material shall consist of approximately 2,120,000 cubic yards of select exempt construction and demolition (C&D) debris for the shaping layer, and approximately 394,000 cubic yards of cover material. The imported material shall be used on Site to attain the final approved grades and contours approved by the Department, and referenced on plans made a part of this permit.

a) The use of asphalt as fill material on the Site is prohibited.

b) The use of dredge spoils as fill material on the Site is prohibited.

c) There shall be no mechanical separation of steel and fiberglass reinforcing rods from concrete and concrete products at the Site.

d) No size reduction or material processing may occur on Site, except with earth moving equipment in the course of placement. However, the breakdown and removal of stumps and wood previously left on Site by the New York City Department of Sanitation (DOS) is permitted.

e) All solid waste material excavated from the Site shall be properly secured immediately, and then removed from the Site and legally disposed of within seven (7) days.

f) All unauthorized solid waste or fill material found on the Site shall be properly secured immediately, and then removed and legally disposed of within five (5) days of its discovery by Permittees.

g) All select exempt construction and demolition (C&D) debris for the shaping layer and the cover layer material must be free of all non-exempt C&D recognizable debris.

9. The quantification of all imported fill material shall be continuously tracked by both truck volume, and periodic topographic survey of the imported in-place fill volume. Since compacted in-place fill volumes will not equal truck volumes of fill, a 41.7 percent (41.7%) correction factor shall be applied for shaping layer material and a correction factor of 18 percent (18%) shall be applied for cover material. The correction factor for converting truck volume into in-place volume may be modified by the Department.

10. The Permittees must cease the importation of fill material if:

a) The final approved grades are attained prior to the permitted amount of fill material being imported;

b) 2,120,000 cubic yards of select exempt construction and demolition debris for the shaping layer, as measured by in-place fill volume determined through topographic survey, are accepted. All material imported to the Site is considered shaping layer material, unless testing determines otherwise; or

c) 394,000 cubic yards of cover layer material, as measured by in-place volume, are accepted.

SPECIAL CONDITIONS

ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

11. Use of fill material from DEC registered construction and demolition debris processing facilities (DEC registered C&D facilities or registration facilities) requires written Departmental approval. Such requests must be submitted to the Department for approval not less than ten (10) business days prior to any proposed date for importation from the new locations. No fill material may be received from unapproved facilities or locations. DEC registered construction and demolition debris processing facilities (DEC registered C&D facilities or registration facilities) may be used to obtain select exempt construction and demolition debris for fill material to the Department for its approval prior to use. The subsequent transportation and use of fill material from other additional registration facilities requires written Departmental approval. Such requests must be submitted to the Department for approval not less than ten (10) business days prior to any proposed date for importation from the new locations. No fill material may be received from unapproved facilities or locations.

12. Select exempt construction and demolition debris to be used as fill material at the Site may be accepted from DEC registered C&D facilities as approved pursuant to Special Condition #11, provided that the facilities segregate and clearly mark each stockpile with a specific identification number, the date each stockpile was started and the date when it was sampled by the Permittees. The Department shall be notified by Permittees at least 24 hours before any sampling event at a DEC registered C&D facility. All sampling reports shall be transmitted to the Department or the IEM directly from the certified testing laboratory.

13. The Permittee shall be responsible for ensuring that cover layer material is procured from a DEC approved source, and it meets all permit specifications.

a) If cover layer material is manufactured, the soil used in its manufacture must not originate from any industrial sites, brownfield site, historical fill site or DEC registered C&D facilities.

14. The Permittee shall be responsible for ensuring that the shaping and cover layer materials meet sections 4.2.1 and section 4.3 of the October 15, 2013 Supplemental Engineering Report, Volume 1, as well as the following:

a) In order for select exempt construction and demolition debris material to be used on Site, it must be sampled both prior to acceptance and after the importation of each additional 10,000 cubic yards (in truck volumes). Each soil sample is to be analyzed for Toxicity Characteristic Leachate Procedure (TCLP), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and metals (including Resource Conservation and Recovery Act (RCRA) metals).

b) Cover layer material must be sampled prior to acceptance and after the importation of each additional 2,000 cubic yards (in truck volumes). Each soil sample is to be analyzed for the entire analyte list in the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046, total volatile organic compounds (VOCs), total semi- volatile organic compounds (SVOCs), pesticides and herbicides, polychlorinated biphenyls (PCBs), and metals (including Resource Conservation and Recovery Act (RCRA) metals).

c) The shaping layer must meet the following chemical limits:

i. Total carcinogenic SVOC levels (weighted average as calculated by formula provided in 10/25/06 letter from NYSDEC) must be less than 3 ppm by completion of construction; maximum carcinogenic SVOCs level from individual source must be 10 ppm or less. The following are the list of carcinogenic SVOCs that are subject to this 3 ppm limit: Benzo(a)pyrene, Dibenzo(a,h)anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Indeno(1,2,3-cd)pyrene, Benzo(k)fluoranthene, and Chrysene.

ii. Total SVOCs must be less than 500 ppm

iii. Metals:

- Arsenic less than 28 ppm;
- Barium less than 2,000 ppm;
- Cadmium less than 20 ppm;
- Chromium less than 1,000 ppm;
- Copper less than 1000 ppm;
- Lead less than 400 ppm;
- Mercury less than 0.57 ppm
- Selenium less than 11 ppm
- Silver less than 100 ppm

iv. Asbestos for all layers must be 0.5% or less

v. Total sulfur for all layers must be 0.5% or less

vi. Total PCBs less than 10 ppm

vii. Total Pesticides less than 10 ppm

viii. VOCs (all individual analytes less than TAGM 4046)

d) The final placement of shaping and cover layer materials is subject to installation of a demarcation layer at locations where combined shaping and cover layers thickness are less than five (5) feet.

e) All shaping and cover layer material placed after the final placement of shaping and cover layer must meet the 6NYCRR Part 375 protection of public health restricted residential Part 375-6.8(b) SCOs.

15. The major components (greens, contours, heights and top soil) of the cover layer shall meet the Nicklaus Design Technical Specification, as noted in Exhibit C of the June 30, 2005 Engineering Report, and as follows:

- Greens - Greens mix imported to the site shall be tested as per material testing requirements. Fertilizer and soil amendments may be applied on the greens mix after spreading to construction specifications and finally grassed, as per the specifications provided by the agronomist.
- Topsoil - Topsoil imported shall be consistent with native topsoil, and shall be free of rock and debris greater than three quarters of an inch, as per Exhibit C of the Engineering Report. Soil amendments, fertilizer applications and seed may be applied to tee, fairway and rough areas, as per Exhibit C of the June 30, 2005 Engineering Report.

16. The Department may conduct joint sampling or take split samples as necessary for verification purposes.

Groundwater

17. The Permittee shall implement a groundwater monitoring program as described in section 4.5 of the Supplemental Engineering Report, Volume 1, dated October 15, 2013.

Fill Progression Monitoring

18. The Permittee shall place grade stakes indicating elevations for proposed final grades of fill and cover material.

19. The Permittee shall place benchmarks throughout the Site, in a manner acceptable to the Department, for the purpose of periodically measuring and surveying fill elevations. Benchmarks are to be maintained at all times. If it becomes necessary, they shall be repaired promptly.

Project Completion Schedule

20. The project shall progress according to the Construction Schedule provided in Volume #1, Application for Modification to the Solid Waste Management Facility Permit for Construction of Ferry Point Park Recreation Facility, Bronx, NY, Engineering Report, prepared by TRC Raymond Keyes Associates, dated June 30, 2005 (as revised), Exhibit A, and as updated in section 3.1 of the Supplemental Engineering Report dated October 15, 2013. The effective date for implementation of the construction schedule is the effective date of this permit.

21. In accordance with the approved plan in Special Condition #1, placement of fill material in each section of the Site shall not exceed the designed and approved final contours for each section.

22. Only cover material may be stockpiled in a section upon completion of the placement of fill material for the shaping layer in that section as per design calculations. In addition, cover material may be stockpiled in a section where the completion of fill placement has not occurred, if such stockpile is segregated and secured from construction and demolition debris used for the shaping layer.

23. Upon completion of filling operations to approved grades in a section, the Permittees shall commence the rough shaping and placement of cover material, and the installation of drainage, irrigation and utilities, as per Construction Schedule noted in Special Condition # 20. Prior to placement of this cover material, Permittee must comply with the requirements of Special Condition # 15(d).

Independent Environmental Monitor

24. An Independent Environmental Monitor (IEM), accountable to the Department, shall be retained by the Permittee to provide environmental oversight of all activities authorized by this permit for the duration of its permitted term, including, but not limited to, the quantification, importation and placement of fill, and the monitoring of the Site.

SPECIAL CONDITIONS

ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

a) It shall be the IEM"s responsibility to provide notice of any deviation from the activities authorized by this permit and any deviation from New York State Environmental Regulations (6NYCRR Part 360) to the Department immediately, but in no event later than 24 hours after such deviation is detected. This notification must include the date and time of the potential non-compliance, the nature of the non-compliance, any corrective action, and any additional measures the IEM will be undertaking to track the issue until corrected. Should the IEM be uncertain as to whether such a deviation has occurred, the matter shall be promptly reported to the Department for a determination. For the purposes of this permit, a deviation(s) shall mean any of the following:

i. An apparent violation of any condition of this permit;

ii. An apparent violation of Federal, State or Local Law;

iii. A material difference between construction or monitoring data obtained by the Permittees or their consultants, and that obtained by the IEM;

iv. Any receipt of fill that does not meet the specifications authorized in this permit;

v. Any receipt of fill from a site not authorized under the permit or by the Department.

vi. Any condition, activity or occurrence that may endanger or pose a threat to public health, safety or the environment.

b) Notwithstanding any other reporting this permit requires, the IEM shall submit a detailed written report to the Department no less frequently than every three months detailing the IEM"s activities at the Site, the estimated total volume of fill material (including cover material) received during the reporting period based on truck volume, the total volume of fill in place at the Site, the percentage of filling to final grades, and the number(s) of trucks prohibited from entering the Site. The report also shall summarize any site meetings amongst the Permittee, its consultants or others, verify that all samples taken and monitoring done at the Site by the Permittee or consultants conform to this permit, detail any substantive change in the condition of the Site or project, fully explain any deviations occurring during the reporting period and their disposition, and describe any other occurrence, circumstance or condition that may have a bearing upon the safe and environmentally sound operation of the Project or Site.

c) The IEM must be approved by the Department prior to the finalization of any contractual agreement with the Permittee, and the initial receipt of any fill material at the Site.

d) The continued retention, discharge, or replacement of the IEM shall be at the sole discretion of the Department. The Permittee waive any right to seek judicial review of the Department's exercise of that discretion. The Permittees must fully pay all invoices and bills from the IEM within sixty days of submission. The IEM or its Department approved representative shall be present on Site whenever it is open. Under no circumstances shall Project activities, including the receipt or management of fill, take place while the IEM or its designated representative is absent from the Site.

SPECIAL CONDITIONS

ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

e) The Department shall have access to any information obtained by the IEM at any time. The IEM shall keep all information including, but not limited to, fill records, inspection reports, field notes, monitoring data, graphics, databases, financial records, minutes of meetings and other information in a form approved by the Department

f) The IEM, if an individual, shall possess a New York State Professional Engineer license. If an engineering firm serves as the IEM, the firm must provide an employee of that firm who is a New York State licensed professional engineer to perform all functions and certifications noted in Section 1.1 of the Engineering Report referenced in Special Condition No. 1 above. In addition, the IEM shall:

i. monitor all aspects of the Permittees" fill operations at the Ferry Point Park ("FPP") facility;

ii. have unrestricted access to all personnel employed by the Permittee at the FPP facility, and to all files and records maintained by the Permittees at the FPP facility pursuant to this permit;

iii. inspect the proposed sources of fill, review the documentation about the sources of the material, including without limitation, any off-site sampling, and certify as to the acceptability of the material for use at the Site, in accordance with the criteria specified in the Engineering Report, Section 2. The IEM shall notify the Department at least 24 hours before any on-site sampling;

iv. visually inspect each truckload of imported fill material at the Site, and undertake reasonable verification activities including directing, where appropriate, verification sampling, analysis and certification by the IEM on a Project specific tracking form that it meets criteria for acceptable fill at the Site;

v. inspect each truckload of material upon its dumping on Site with a Photo-Ionization Detector (PID).

vi. prohibit any truck from leaving the dumping area before the load has been inspected, and the manifest signed by the IEM. If any load is rejected, the rejected fill material shall be reloaded onto the same truck immediately and legally transported off-site. However, if the rejected fill material is a DEC regulated solid waste or hazardous waste, it must be segregated immediately and secured on-site, until it is removed by a DEC permitted hauler for appropriate disposal. Such regulated or hazardous waste must be removed from the Site within 3 days of its discovery;

vii. monitor the off loading of all material at the unloading station. No truck shall be allowed to off load unless the IEM is present. Such truck shall only be allowed to leave the station after the load is tested and found acceptable.

viii. certify that the sampling of material at the project Site conforms to the permit requirements, and review the results of all laboratory tests;

ix. notify the Department daily about the receipt of unacceptable material or any violations of conditions set forth in this permit;

x. maintain files on Site of fill sampling data, site histories, and internal manifest (tracking) forms;

xi. report and certify to the Department that the on-site gas well monitoring has been conducted as required by this permit. Notify the Department immediately if levels exceed 25% of the lower explosive limit (LEL) in any gas monitoring well;

xii. certify that: (a) all grades of the shaping layer of a section are correct prior to the placement of cover material on that section; (b) a minimum of two feet of fill material covers the existing municipal solid waste layer; and (c) the final cover layer meets the appropriate specifications of the Engineering Report noted in Special Condition #1;

xiii. during fill delivery and earthwork, submit bi-weekly reports to the Department summarizing all Site activities set forth by this permit. Each report shall provide details of all rejected fill material, quantify the amount of material imported onto the Site using truck volumes, and the results of all on-site gas monitoring for that period;

xiv. review the final post-construction report and provide comments to the Department on whether the fill operation was performed in accordance with the permit documents and including any deviations thereof. These comments must be submitted by the IEM to the Department within sixty (60) calendar days of the receipt of the final post construction report, certify that the fill operation was performed in accordance with the permit documents. The certified post-construction report must be submitted by the IEM to the Department within sixty (60) calendar days after the completion of the earthwork portion of the Project;

xv. report all operational upsets, emergencies, unusual circumstances (including, but not limited to, unauthorized entries, security breaches, equipment breakdowns, fires, thefts, acts of vandalism, and on-site accidents) to the Regional Solid Waste Engineer by telephone (at 718/482-4996) within 24 hours of the occurrence, and in writing within 3 business days advising the engineer of the nature of the event, and providing a description of how the event was handled.

Gas Venting Trench

25. During the duration of this permit, the Permittee shall inspect the gas venting trench monthly to verify the integrity of the venting trench and its mulch cover. The Permittee shall maintain the gas venting trench at all times, and promptly repair any soil washouts of the mulch cover, as necessary. If any portion of the venting trench or mulch cover is found in need of repair, this fact must be reported to the IEM immediately and all necessary repairs must be made within two weeks of discovery.

(SC 25 continued) In addition, the mulch cover shall be replaced, at a minimum, every spring to maintain the effectiveness of the gas venting trench. The Permittee shall maintain the gas venting trench after the completion of construction of the golf course in the manner described in the Supplemental Engineering Report, Volume 3, Appendix F.

26. Monthly monitoring of the gas venting trench shall continue for the duration of the permit.

27. **As required by the Custodial Care Plan**: Gas venting trench inspection reports shall include the inspection date, the name of inspector, and a description of repairs, monitoring results and maintenance performed. A log of these self-inspections must be maintained including the dates, times and results of the inspections.

Piezometers

28. The Permittee shall conduct monthly monitoring of the depth of ground water in each piezometer installed at the gas venting trench, until the completion of the construction of the golf course. All readings shall be submitted to the Department in a monthly report.

a) **As required by the Custodial Care Plan**: Post-construction piezometers monitoring shall be performed in accordance with the Supplemental Engineering Report dated October 15, 2013, Volume 3, Appendix F, Section 6.

29. Within sixty (60) days of receipt of this permit, the Permittee shall submit a Response Action Plan to the Department. This Plan shall set forth the measures to be implemented by the Permittee, if the piezometer readings indicate that the groundwater table has dropped below the depth of the gas venting trench during the post construction monitoring period.

30. The Permittee shall sample the perimeter gas monitoring wells #0, #1A, #1 to #3, #5 to #12, and #14 to #18, and the on-site monitoring wells #13 and #19 on a bi-weekly basis to detect any explosive gas migration. Copies of the bi-weekly monitoring field notes shall be electronically mailed to the Department within 24 hours after the sampling event and a copy of this report shall be submitted to the Department within 3 business days and reported to the IEM immediately and all necessary repairs must be made within two weeks of discovery.

31. All perimeter gas monitoring wells should be tested at least on a bi-weekly basis. However, if any individual monitoring point has a bi-weekly reading that equals or exceeds 100% LEL or three consecutive bi-weekly reading are greater than 25% LEL, a modified methane gas action plan shall be implemented by the Permittee. Such plan shall require, at minimum, weekly testing of the individual monitoring point(s) with the elevated readings. The Department also may require any additional measures it deems necessary. Any individual point under the modified methane gas action plan may return to the regular bi-weekly monitoring schedule, when three (3) consecutive weekly readings are all less than the 25% LEL action level.

SPECIAL CONDITIONS

ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

Deed Restriction

32. Within thirty (30) days of the date of the issuance of this permit, the Permittee shall submit a draft Deed Restriction to the Regional Permit Administrator. The deed restriction, which shall run with the land in perpetuity, shall recite and require compliance with this permit's provisions as regards to the custodial care requirements described in the Supplemental Engineering Report dated October 15, 2013, Volume 3, Appendix I. The deed restriction must be filed within six (6) months of the issuance date of this permit.

Off-site Gas Monitoring Network

33. The Permittee shall conduct bi-weekly monitoring of the Off-site Gas Monitoring Network. A copy of the bi-weekly monitoring field notes shall be electronically mailed to the Department within 24 hours, and a copy of the monitoring report shall be submitted to the Department within 3 days of the completion of each round of monitoring.

a) **As required by the Custodial Care Plan**. Each bi-weekly monitoring report shall include the geoprobe monitoring point(s) installed on or near Buttrick, Schley, Balcom, Miles and Emerson Avenues, as described in the methane monitoring reports referenced in Special Condition #1 of this permit.

34. The Permittee shall maintain, and upgrade if required, the Off-site Gas Monitoring Network during facility construction and after completion of the golf course.

a) The Permittees may request Departmental approval to substitute for all, or part of, the Off-site Gas Monitoring Network by installing geoprobe soil gas monitoring points of a placement and design suitable to the Department. Such points must be at linear intervals no greater than 50 feet (on 50-foot centers) along either segments of the perimeter boundary of the gas venting trench or the drainage ditch.

b) If any point used for off-site gas monitoring is found to require repairs, this fact must be reported to the IEM immediately and all necessary repairs must be made within two weeks of discovery. A copy of the off-site gas monitoring well results also must be sent to the New York City Housing Authority.

c) All off-site gas monitoring points shall be tested on a bi-weekly basis. If any individual monitoring point has a bi-weekly reading that equals or exceeds 100% LEL, or three consecutive bi-weekly readings that are greater than 25% LEL, sampling of that point shall be done weekly. Any individual point under the later modified methane gas action plan may return to the regular bi-weekly monitoring schedule, if there are three (3) consecutive weekly readings all less than the 25% LEL action level.

d) None of the requirements specified in Special Conditions Nos. 26 through 34, 36 (a) through (c) may be terminated without written approval from the Department.

SPECIAL CONDITIONS

ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

Ferry Point Park East Post Construction Custodial Care Plan (Custodial Care Plan)

35. Upon Department approval of the Permittee's written post construction certification report, Permittee shall implement the Custodial Care Plan described in Supplemental Engineering Report dated October 15, 2013, Volume 3, Appendix I, as referenced in Special Condition No. 1.

Project Abandonment and Environmentally Sound Closure

36. Should the Project be abandoned, the entire 222 acre Site must be closed, monitored and maintained after closure in accordance with 6 NYCRR Sect. 360-2.15 as a landfill in operation since 2000.

a) Within one hundred and twenty (120) days after notice from the Department that the Site has been deemed abandoned, the Permittee shall implement the custodial care plan contained in the Supplemental Engineering Report dated October 15, 2013, Volume 3, Appendix I, as referenced in Special Condition No. 1.
b) For the purpose of this permit, abandonment shall mean any of the following:
   i. Filling operations authorized under this permit cease for a period of 12 consecutive months, as provided in 6NYCRR sect 360-1.11(f);
   ii. Failure to complete the Project within 12 months of the issuance of this permit, as determined by the Department, by the expiration date of this permit; or
   iii. Termination of this Project as a result of enforcement action by the Department or another government agency for non compliance with this permit, or with applicable Federal, State or Local Law.
c) The terms of this Special Provision shall govern, if in conflict with the terms of General Condition No. 12.

Waterfront Park

37. Within one hundred and eighty (180) days of the effective date of this permit, provide three hard copies and one copy on CD of revised design plans for the Waterfront Park, to the Regional Permit Administrator. Include in this submission details on the extent of adjacent area and tidal wetlands encroachment, water balance, proposed mitigation (including mitigation for the pool barge), implementation plans and staging.

SPECIAL CONDITIONS

ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

Submittals

38. Within sixty (60) days of completion of the filling operation on the Site and construction of the earthwork portion of the Project, the Permittees shall provide:

a) as-built drawings of the Project, signed by a professional engineer licensed in New York State for DEC's approval. The post construction as built drawings shall, at a minimum, include detailed cross-sections illustrating the depth of fill placed and location of all utilities and associated structures, road ways, demarcation layer and storm water drainage control structures for the Project. The as-built plans also shall include the location of all monitoring and control systems and devices (including gas control and monitoring, water quality and elevation monitoring and settlement monitoring).

b) a written post-construction certification report for review and approval by the Department and certification by the Independent Environmental Monitor. This report shall include approved "as-built" drawings demonstrating that the earthwork and filling operation was accomplished in accordance with the Department approved plans and this permit. If as-built drawings are not approved by DEC within 120 days of the completion of the filling operation, the Site is deemed abandoned, as per Special Condition No. 36. This report and the as-built drawings cannot be done or submitted by the IEM.

39. Within ninety (90) days of approval of the post construction certification report, the Permittee shall submit an amended subsurface operations plan which includes relevant post construction storm water pollution prevention maintenance documentation as per the State Pollution Discharge Elimination System (SPDES) general permit for storm water discharges from construction activity.

40. Within sixty (60) days of the effective date of the permit, the Permittee shall submit a full size (24 inches by 36 inches) scaled, signed and sealed drawing showing construction of the irrigation lake passive venting system.

41. Thirty (30) days after approval of the construction certification report, the Permittee must provide to the Regional Solid Waste Engineer, a revised Table 6-1 (noted in the engineering report referenced in Special Condition #1 above).

42. Prior to the installation of any sub slab depressurization systems for onsite buildings, the Permittee must secure written approval of these systems from the NYS Department of Environmental Conservation and the NYS Department of Health.

43. All reports and written submissions shall be sent in duplicate to the regional office of the DEC, with an additional copy to DEC Central Office, and another copy to the document repository as noted below. Each submission shall have a transmittal page, which references the DEC permit number and the relevant Special Condition number.

SPECIAL CONDITIONS

ADDITIONAL SPECIAL CONDITIONS FOR ARTICLES 27 and 6 NYCRR Part 360 (Solid Waste Management Facilities)

Samsudeen Arakhan
Regional Materials Management Engineer
NYS DEC, Region 2
47-40 21st Street
Long Island City, NY 11101

John Cryan
Regional Permit Administrator
NYSDEC, Region 2
47-40 21st Street
Long Island City, N.Y. 11101

David Vitale, Bureau Chief
Bureau of Solid Waste, Reduction, and Recycling
NYS DEC
625 Broadway
Albany, NY 12233-7253

FPP Golf Course Document Repository
New York City Department of Parks and Recreation
1 Bronx River Parkway
Bronx, NY 10462-2869

44. All notifications to the Department, as referenced in Special Conditions of this permit, shall be made to the Regional Materials Management Engineer, NYS DEC, 47-40 21st Street, Long Island City, NY 11101. All immediate, 24-hour, verbal or expedited notifications shall be made by telephone and electronic mail to the attention of Samsudeen Arakhan, Regional Solid Materials Engineer at: 718-482-4996 (phone) / skarakha@gw.dec.state.ny.us (email), or other numbers subsequently provided by the Department.

45. Copies of reports generated or reviewed by the Independent Environmental Monitor shall be maintained at the document repository referenced in Special Condition No. 43 above.

End of Special Conditions

APPENDIX B

List of Project Participants

City of New York Parks & Recreation
Joy Gutierrez, RA Architect
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T (212) 360-3471
F (212) 360-3434
Email address: joy.gutierrez@parks.nyc.gov

City of New York
Parks & Recreation
Kay Zlas, Director of Environmental Remediation
NYC ParksCapital Projects
Olmsted Center
Flushing Meadows Corona Park Flushing, NY 11368
T: 718.760.6748 F: 718.760.6572
Email address: kay.zias@parks.nyc.gov www.nyc.gov/parks

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General Manager
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p. 718.414.1560 | c. 914.804.9699
jroediger@trumpgolflinks.com | www.trumpferrypoint.com

APPENDIX C

SSDS Construction Drawings Submitted by FPA to NYSDEC dated June 12, 2017

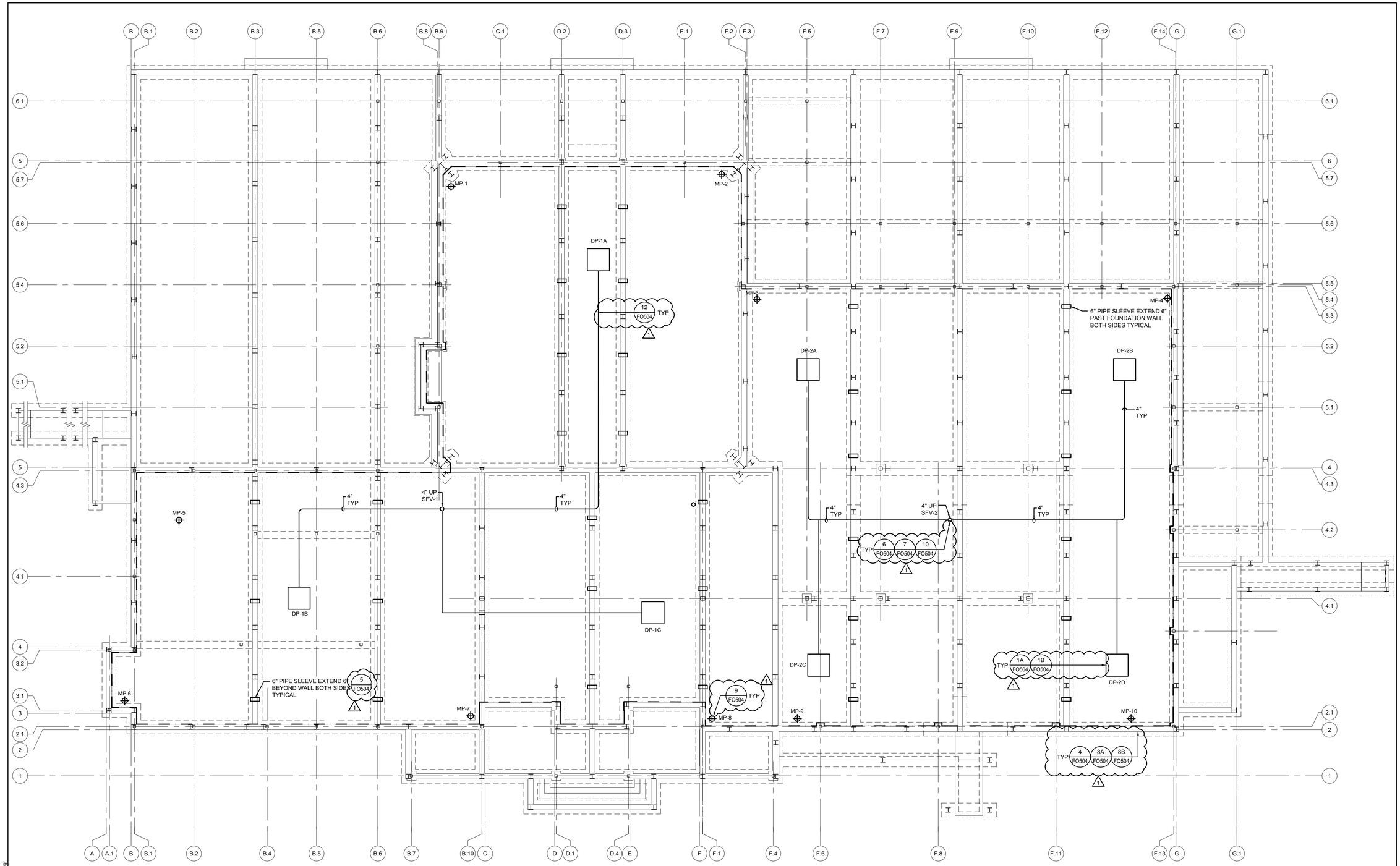

UNDERSLAB PLAN

SCALE: 1/8" = 1'-0"

NOTES :

1. DRAWINGS NOT TO BE USED FOR STRUCTURAL, ARCHITECTURAL OR OTHER REFERENCE EXCEPT FOR SUB-SLAB DEPRESSURIZATION SYSTEM.
2. THE EXTENTS OF BUILDING CONSTRUCTION BENEATH THE FLOOR SLABS SHALL BE LINED WITH GAS VAPOR BARRIER. AS PART OF BUILDING CONSTRUCTION, THE GAS VAPOR BARRIER SHALL ALSO BE APPLIED VERTICALLY TO BELOW GRADE WALLS AND WALLS OF PITS AND SUMPS AS SHOWN AND SPECIFIED.
3. SLOPE HORIZONTAL PIPE UNIFORMLY A MINIMUM OF 1% TOWARD SUB-SLAB DEPRESSION SYSTEM PITS OR TO CONDENSATE DRAINS WHEN PIPING CANNOT BE SLOPED TO PIT.
4. SECURE VERTICAL RISER TO WALL IN ACCORDANCE WITH ARCHITECTURAL AND PLUMBING REQUIREMENTS.
5. ELECTRICAL WIRING AND EQUIPMENT NOT SHOWN. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR REFERENCES.
6. SEAL ALL JOINTS IN SLAB ON GRADE, INCLUDING BUT NOT LIMITED TO, CONTROL JOINTS, EXPANSION JOINTS, CRACKS, WALL JOINTS, PENETRATIONS ETC. WITH NON-CRACKING CAULK. POLYURETHANE TYPE PREFERRED.
7. COORDINATE GAS VENTING SYSTEM WITH ALL TRADES, INCLUDE VENTING SYSTEM PIPING ON COORDINATION DRAWINGS.
8. ALL GAS VENTS SHALL BE CONTINUOUS FROM UNDERSLAB STONE BASE TO 36" ABOVE ROOF LINE OR PARAPET (WHICHEVER IS HIGHER). ALL VENTS SHALL BE 10'-0" MIN FROM LOT LINES, OUTSIDE AIR INTAKES, WINDOWS, ETC.
9. DRAWING ILLUSTRATES WALLS AND ALL SLAB ON GRADE FLOOR AREAS. COORDINATE THIS WORK WITH ARCHITECTURAL, MECHANICAL, AND STRUCTURAL PLANS.
10. ALL GAS VENT PIPING SHALL BE PVC PIPING. WHERE PIPING IS LOCATED IN RETURN AIR PLENUMS CHANGE MATERIAL TO NO-HUB CAST IRON PIPE.
11. LABEL GAS PIPING AT INTERVALS OF NOT MORE THAN 25 FT IN CONCEALED LOCATIONS AND NOT MORE THAN 50 FT ON EXPOSED AND NOT LESS THAN ONCE IN ANY ROOM OR SPACE.
12. GAS VAPOR BARRIER TO BE INSTALLED IMMEDIATELY BELOW FLOOR SLAB AS INDICATED ON THE STRUCTURAL DRAWINGS. PROVIDE 12" MINIMUM CLEAN #57 STONE SUB-BASE FOR GAS MITIGATION SYSTEM.
13. SLOPE HORIZONTAL PIPE A MINIMUM OF 1% UNIFORMLY TOWARD SUCTION PITS.
14. REFER TO SPECIFICATION FOR ADDITIONAL SUB-SLAB DEPRESSURIZATION SYSTEM AND ACCESSORIES REQUIREMENTS.

LEGEND

- EXTENT OF GAS PERMEABLE AGGREGATE LAYER BENEATH FLOOR SLAB
- 4" SCHEDULE 80 PVC PIPE
- SFV-1 — SUCTION FAN VERTICAL 4" RISER AND IDENTIFICATION NUMBER. EXTEND THRU ATTIC TO SUCTION FAN
- MP-1 — SUB-SLAB MONITORING POINT AND IDENTIFICATION NUMBER
- DP-1A — SUB-SLAB DEPRESURAIZATION PIT AND IDENTIFICATION NUMBER

PROVIDE LIQUID BOOT GAS VAPOR BARRIER SYSTEM UNDER SLAB AS MANUFACTURED BY CETCO CONSISTING OF ULTRASHIELD G-1000, 60 DRY MILS LIQUID BOOT AND LIQUID BOOT BASE FABRIC. SYSTEM SHALL INSTALLED BY AUTHORIZED INSTALLER. REFER TO DETAILS FOR ADDITIONAL INFORMATION. REFER TO CONTRACT DOCUMENTS FOR LOCATIONS OF PENETRATIONS THROUGH THE SLAB.

OFFSET VENT ABOVE CEILING AT ROOF AND EXTEND THROUGH ROOF APPROXIMATELY 3' FROM PARAPET WALLS AND TERMINATE 24" ABOVE FINISHED ROOF.

NEW YORK ALTERATION WARNING

IT IS A VIOLATION OF NEW YORK PROFESSIONAL ENGINEER & LAND SURVEY LAWS SECTION 7209.2 FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM IN ANY WAY WITHOUT AFFIXING TO THE ITEM HIS SEAL AND THE NOTIFICATION "ALTERED BY", FOLLOWED BY A SIGNATURE, DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

FRENCH & PARRELLO ASSOCIATES

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New York, NY

JONATHAN V. CRAWFORD, PE
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FOR CONSTRUCTION

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PLANNERS ARCHITECTS
LANDSCAPE ARCHITECTS
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TRUMP
THE TRUMP ORGANIZATION

TRUMP GOLF LINKS FERRY POINT PARK

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Bronx, New York 10465

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DATE	ISSUE
04-16-15	100% DD
06-02-15	30% CD
07-01-15	70% CD
07-27-15	90% CD
09-15-17	FOR CONSTRUCTION

REVISIONS

NO	DATE	ISSUE
3	02-17-17	REMOVE BSMT
	03-30-17	DEC REVIEW
	04-07-17	RE-BID/ REMOVE BSMT
4	05-05-17	COMMENTS

DRAWING TITLE: VAPOR REMEDIATION UNDERSLAB PLAN

PROJECT #: 14-534
DRAWN BY:
CHECKED BY: FRM

DRAWING NO: FO-500.00

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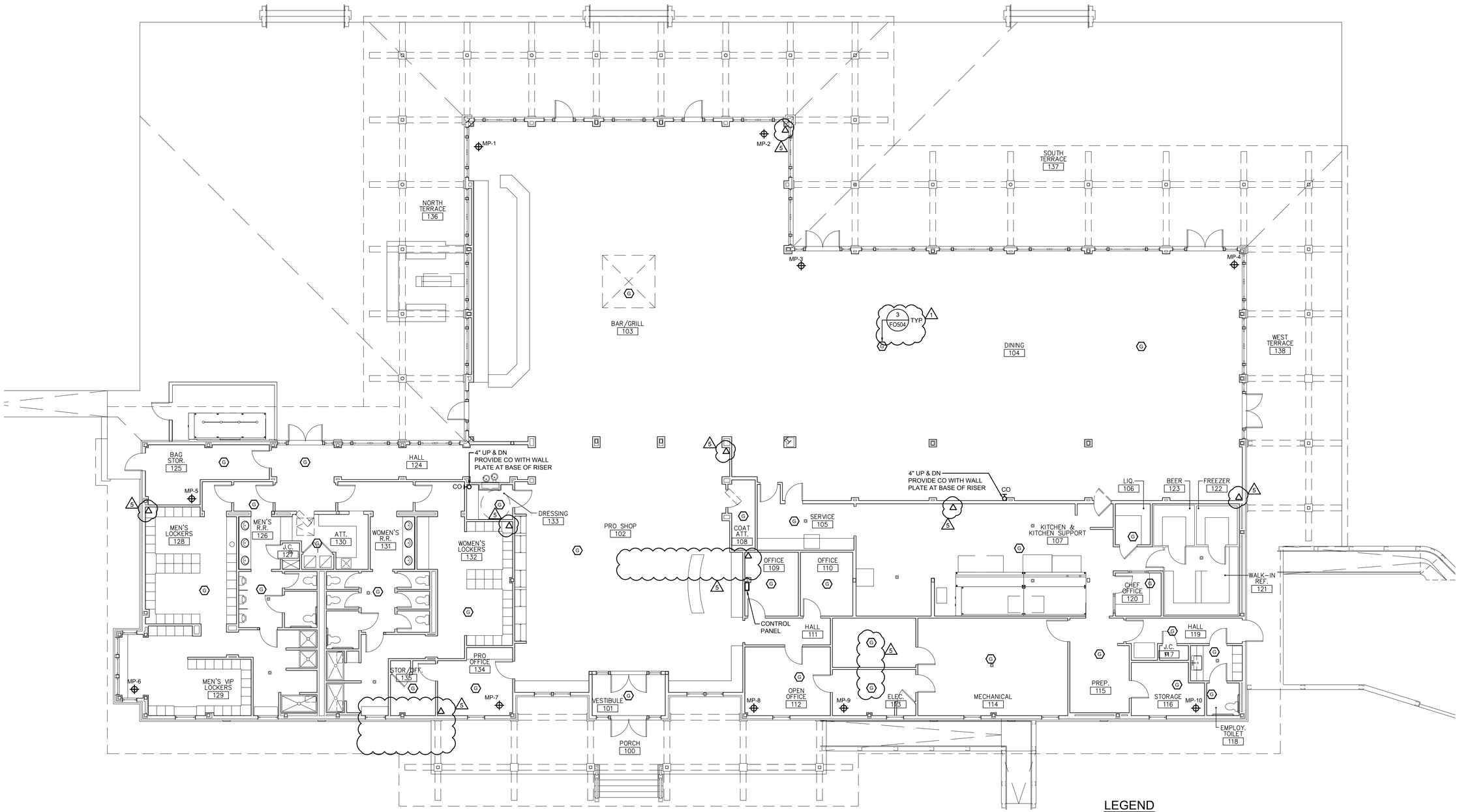

FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

LEGEND

SFV-1	SUCTION FAN VERTICAL 4" RISER AND IDENTIFICATION NUMBER. EXTEND THRU ATTIC TO SUCTION FAN
MP-1	SUB-SLAB MONITORING POINT AND IDENTIFICATION NUMBER
G	GAS SENSOR
	METHANE GAS SENSOR CONTROL PANEL
△	METHANE GAS LIGHT TOWER ALARM - HANG FROM CEILING

FOR CONSTRUCTION

NEW YORK ALTERATION WARNING

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JONATHAN V. CRAWFORD, PE
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HART | HOWERTON
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TRUMP
THE TRUMP ORGANIZATION

TRUMP GOLF LINKS FERRY POINT PARK

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DATE	ISSUE
04-16-15	100% DD
06-02-15	30% CD
07-01-15	70% CD
07-27-15	90% CD
09-15-17	FOR CONSTRUCTION

REVISIONS

NO	DATE	ISSUE
	02-17-17	REMOVE BSMT
	03-30-17	DEC REVIEW
3	04-07-17	RE-BID/ REMOVE BSMT
4	05-05-17	COMMENTS
5	06-06-17	DEC COMMENTS

DRAWING TITLE: VAPOR REMEDIATION FLOOR PLAN

PROJECT #: 14-534
DRAWN BY:
CHECKED BY: FRM

DRAWING NO: FO-501.00

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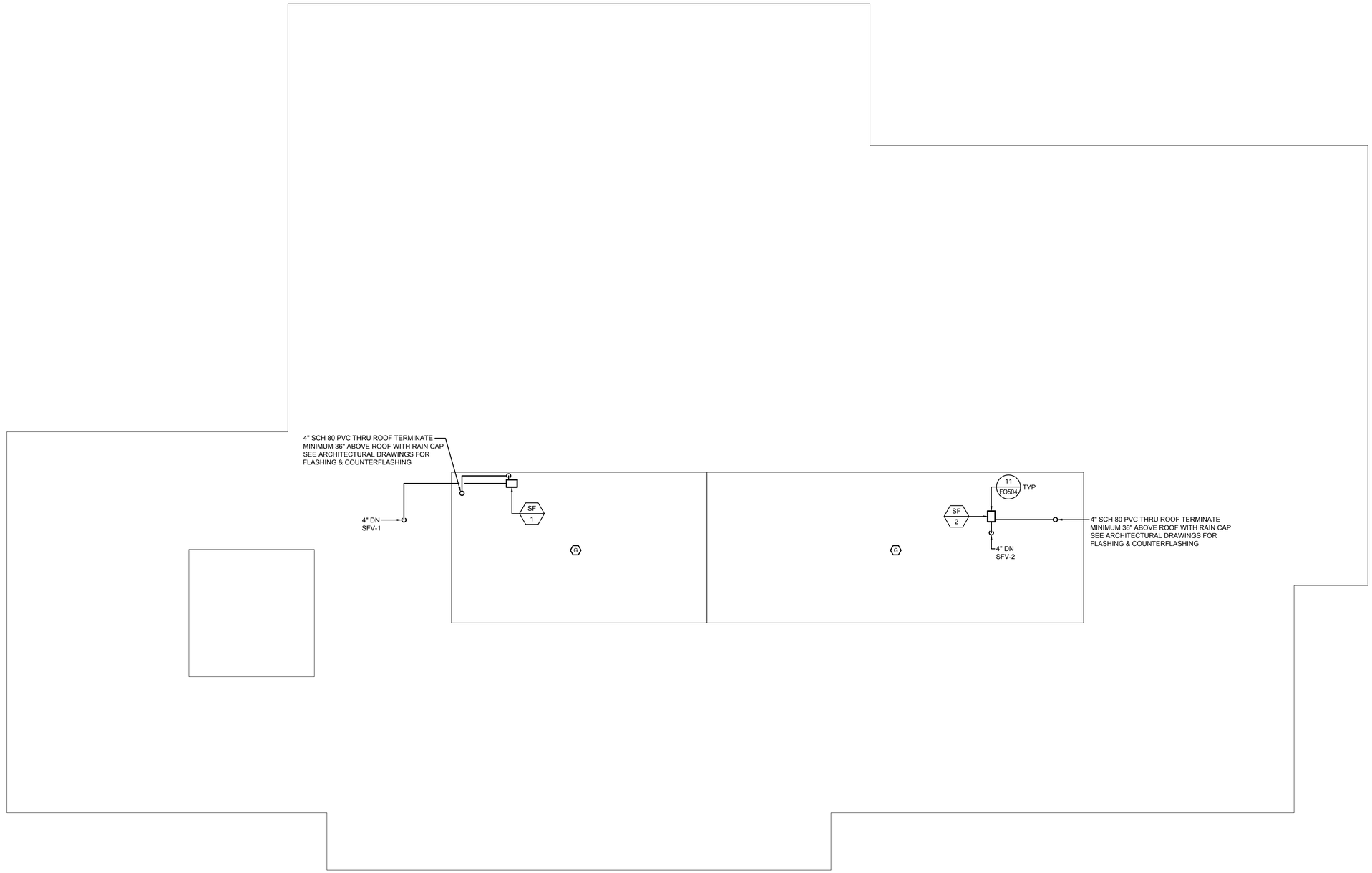

ATTIC/MEZZANINE PLAN

SCALE: 1/8" = 1'-0"

FOR CONSTRUCTION

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DATE	ISSUE
04-16-15	100% DD
06-02-15	30% CD
07-01-15	70% CD
07-27-15	90% CD
09-15-17	FOR CONSTRUCTION

REVISIONS

NO	DATE	ISSUE
	02-17-17	REMOVE BSMT
	03-30-17	DEC REVIEW
3	04-07-17	RE-BID/ REMOVE BSMT
4	05-05-17	COMMENTS
5	09-06-17	VE

DRAWING TITLE:
VAPOR REMEDIATION ATTIC & MEZZANINE PLAN

PROJECT #: 14-534
DRAWN BY:
CHECKED BY: FRM

DRAWING NO:
FO-502.00

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VAPOR REMEDIATION GENERAL NOTES

A. SCOPE

1. ALL CONSTRUCTION SHALL COMPLY WITH THE NYSDEC APPROVED POST CONSTRUCTION CUSTODIAL CARE PLAN DATED OCTOBER 2013, PREPARED BY NYC DPR, INCLUDING THE APPROPRIATE HANDLING OF COVER, SOIL, SHAPING LAYER MATERIAL, DEMARCATION LAYER MATERIALS, AND MSW, AND INSPECTION AND CONSTRUCTION CERTIFICATION REQUIREMENTS.
2. THE GAS MITIGATION SYSTEM IS TO BE INSTALLED BY A LICENSED GAS MITIGATION CONTRACTOR IN THE STATE OF NEW YORK. CONTRACTOR TO SUBMIT DESIGN SHOP DRAWINGS FOR REVIEW PRIOR TO CONSTRUCTION.
3. THE REQUIREMENTS ADDRESSED IN THE GAS MITIGATION SYSTEM (GMS) INCLUDE THE FOLLOWING CATEGORIES OF CONTRACTOR ACTIVITY: GENERAL PRACTICES, WORKER HEALTH AND SAFETY, SYSTEMS INSTALLATION, MATERIALS, MONITORS AND LABELING, POST-MITIGATION TESTING, AND CONTRACTS AND DOCUMENTATION.

B. IMPLEMENTATION

1. THE GMS INCLUDES REQUIREMENTS FOR INSTALLATION OF GAS REMEDIATION SYSTEMS AND PROVIDES A BASIS FOR EVALUATING THE QUALITY OF THOSE INSTALLATIONS. IT MAY BE ADOPTED BY STATE REGULATORY AGENCIES FOR STATE OR LOCAL GAS MITIGATION CONTRACTOR LICENSURE PROGRAMS. IT MAY ALSO BE USED AS A REFERENCE DURING INSPECTION OF IN-PROGRESS OR COMPLETED GAS MITIGATION WORK.
2. CONTRACTORS SHALL PERSONALLY CONDUCT FOLLOW-UP INSPECTION OF ANY GAS MITIGATION SYSTEMS INSTALLED BY THEIR FIRM OR BY SUBCONTRACTORS TO INSURE CONFORMANCE WITH THE REQUIREMENTS OF THE GMS. THIS REQUIREMENT SHALL INCLUDE THE POST-MITIGATION TESTING PRESCRIBED IN THIS SPECIFICATION.
3. THOSE PROVISIONS OF THE GMS THAT ARE CONSIDERED TO BE MANDATORY ARE PREFACED BY THE TERM "SHALL." PROVISIONS THAT ARE CONSIDERED GOOD PRACTICE BUT WHICH ARE NOT MANDATORY ARE PREFACED BY THE TEGMS "SHOULD" OR "RECOMMENDED."

C. LIMITATIONS

1. ALTHOUGH THE PROVISIONS OF THE GMS HAVE BEEN CAREFULLY REVIEWED FOR POTENTIAL CONFLICTS WITH OTHER REGULATORY REQUIREMENTS, ADHERENCE TO THE GMS DOES NOT GUARANTEE COMPLIANCE WITH THE APPLICABLE CODES OR REGULATIONS OF ANY OTHER FEDERAL, STATE, OR LOCAL AGENCY HAVING JURISDICTION.
2. WHERE DISCREPANCIES EXIST BETWEEN PROVISIONS OF THE GMS AND LOCAL CODES OR REGULATIONS, LOCAL CODES SHALL TAKE PRECEDENCE. HOWEVER, WHERE COMPLIANCE WITH LOCAL CODES NECESSITATES A DEVIATION FROM THE GMS, EPA RECOMMENDS THAT RPP LISTED MITIGATION SERVICE PROVIDERS (MITIGATION CONTRACTORS) REPORT THE DEVIATION IN WRITING TO THE APPROPRIATE EPA REGIONAL OFFICE AND THE APPROPRIATE STATE REGULATORY OFFICIAL WITHIN 30 DAYS. IT SHOULD BE NOTED THAT EPA IS NOT REQUIRING THE REPORTING THAT IS RECOMMENDED IN THIS PARAGRAPH. STATES WITH GAS MITIGATION CONTRACTOR CERTIFICATION PROGRAMS MAY REQUIRE THAT CONTRACTORS GIVE PRIOR NOTIFICATION OF THEIR INTENT TO DEVIATE FROM THE GMS FOR RESEARCH OR OTHER PURPOSES.
3. THE GMS IS NOT INTENDED TO BE USED AS A DESIGN MANUAL, AND COMPLIANCE WITH ITS PROVISIONS WILL NOT GUARANTEE REDUCTION OF INDOOR GAS CONCENTRATIONS TO ANY SPECIFIC LEVEL.
4. BECAUSE OF THE WIDE VARIATION IN BUILDING DESIGN, SIZE, OPERATION AND USE, THE GMS DOES NOT INCLUDE DETAILED GUIDANCE ON HOW TO SELECT THE MOST APPROPRIATE MITIGATION STRATEGY FOR A GIVEN BUILDING. THAT GUIDANCE IS PROVIDED IN THE DOCUMENTS REFERENCED IN IN THIS SPECIFICATION.
5. CONTRACTORS WHO EXPECT TO DEVIATE FROM PROVEN GAS MITIGATION TECHNOLOGIES AND METHODS FOR PURPOSES OF RESEARCH ON INNOVATIVE MITIGATION TECHNIQUES, SHALL OBTAIN PRIOR APPROVAL FROM STATE REGULATORY OFFICES, DOCUMENT THE NON-STANDARD TECHNIQUES, AND INFORM THE CLIENT OF THE DEVIATION FROM STANDARD PROCEDURES. IN CASES WHERE GAS MITIGATION IS NOT REGULATED BY THE STATE, CONTRACTORS SHALL OBTAIN PRIOR APPROVAL FROM A REGIONAL EPA OFFICE.

D. WORKER HEALTH AND SAFETY

1. CONTRACTORS SHALL COMPLY WITH ALL OSHA, STATE AND LOCAL STANDARDS OR REGULATIONS RELATING TO WORKER SAFETY AND OCCUPATIONAL GAS EXPOSURE. APPLICABLE REFERENCES IN THE CODE OF FEDERAL REGULATIONS AND NIOSH PUBLICATIONS.
2. IN ADDITION TO THE OSHA AND NIOSH STANDARDS, THE FOLLOWING REQUIREMENTS THAT ARE SPECIFICALLY OR UNIQUELY APPLICABLE FOR THE SAFETY AND PROTECTION OF GAS MITIGATION WORKERS SHALL BE MET:
   a. THE CONTRACTOR SHALL ADVISE WORKERS OF THE HAZARDS OF EXPOSURE TO GAS AND THE NEED TO APPLY PROTECTIVE MEASURES WHEN WORKING IN AREAS OF ELEVATED GAS CONCENTRATIONS.
   b. THE CONTRACTOR SHALL HAVE A WORKER PROTECTION PLAN ON FILE THAT IS AVAILABLE TO ALL EMPLOYEES AND IS APPROVED BY ANY STATE OR LOCAL REGULATING AGENCIES THAT REQUIRE SUCH A PLAN. EXCEPTION: A WORKER PROTECTION PLAN IS NOT REQUIRED FOR A CONTRACTOR WHO IS A SOLE PROPRIETOR UNLESS REQUIRED BY STATE OR LOCAL REGULATIONS.
   c. THE CONTRACTOR SHALL ENSURE THAT APPROPRIATE SAFETY EQUIPMENT SUCH AS HARD HATS, FACE SHIELDS, EAR PLUGS, STEEL-TOE BOOTS AND PROTECTIVE GLOVES ARE AVAILABLE ON THE JOB SITE DURING CUTTING, DRILLING, GRINDING, POLISHING, DEMOLISHING OR OTHER ACTIVITY ASSOCIATED WITH GAS MITIGATION PROJECTS.
   d. ALL ELECTRICAL EQUIPMENT USED DURING GAS MITIGATION PROJECTS SHALL BE PROPERLY GROUNDED. CIRCUITS USED AS A POWER SOURCE SHOULD BE PROTECTED BY GROUND-FAULT CIRCUIT INTERRUPTERS (GFCI).
   e. WHEN WORK IS REQUIRED AT ELEVATIONS ABOVE THE GROUND OR FLOOR, THE CONTRACTOR SHALL ENSURE THAT LADDERS OR SCAFFOLDING ARE SAFELY INSTALLED AND OPERATED.
   f. WORK AREAS SHALL BE VENTILATED TO REDUCE WORKER EXPOSURE TO GAS DECAY PRODUCTS, DUST, OR OTHER AIRBORNE POLLUTANTS. IN WORK AREAS WHERE VENTILATION IS IMPRACTICAL OR WHERE VENTILATION CANNOT REDUCE GAS LEVELS TO LESS THAN 0.3 WL (BASED ON A SHORT TERM DIAGNOSTIC TEST, E.G., GRAB SAMPLE), THE CONTRACTOR SHALL ENSURE THAT RESPIRATORY PROTECTION CONFOGMS WITH THE REQUIREMENTS IN THE NIOSH GUIDE TO INDUSTRIAL RESPIRATORY PROTECTION. ((NOTE: IF UNABLE TO MAKE WORKING LEVEL MEASUREMENTS, A GAS LEVEL OF 30 PCI/L SHALL BE USED.)
   g. WHERE COMBUSTIBLE MATERIALS EXIST IN THE SPECIFIC AREA OF THE BUILDING WHERE GAS MITIGATION WORK IS TO BE CONDUCTED AND THE CONTRACTOR IS CREATING ANY TEMPERATURES HIGH ENOUGH TO INDUCE A FLAME, THE CONTRACTOR SHALL ENSURE THAT FIRE EXTINGUISHERS SUITABLE FOR TYPE A, B, AND C FIRES ARE AVAILABLE IN THE IMMEDIATE WORK AREA.
   h. PENDING DEVELOPMENT OF AN APPROVED PERSONAL GAS EXPOSURE DEVICE AND A PROTOCOL FOR ITS USE, CONTRACTORS SHALL RECORD EMPLOYEE EXPOSURE TO GAS AT EACH WORK SITE, BASED ON:
      1) THE HIGHEST PRE-MITIGATION INDOOR GAS OR WORKING LEVEL MEASUREMENT AVAILABLE, AND
      2) THE TIME EMPLOYEES ARE EXPOSED (WITHOUT RESPIRATOR PROTECTION) AT THAT LEVEL

      (NOTE: THIS APPROACH IS NOT INTENDED TO PRECLUDE THE ALTERNATIVE USE OF ON-SITE GAS OR GAS DECAY PRODUCT MEASUREMENTS TO DETERMINE EXACT EXPOSURE.) CONSISTENT WITH OSHA PERMISSIBLE EXPOSURE LIMITS, CONTRACTORS SHALL ENSURE THAT EMPLOYEES ARE EXPOSED TO NO MORE THAN 4 WORKING LEVEL MONTHS (WLM) OVER A 12 MONTH PERIOD. (AN EQUILIBRIUM RATIO OF 50 PERCENT SHALL BE USED TO CONVERT GAS EXPOSURE TO WLM.)
   i. WHEN MITIGATION WORK REQUIRES THE USE OF SEALANTS, ADHESIVES, PAINTS, OR OTHER SUBSTANCES THAT MAY BE HAZARDOUS TO HEALTH, CONTRACTORS SHALL PROVIDE EMPLOYEES WITH THE APPLICABLE MATERIAL SAFETY DATA SHEETS (MSDS) AND EXPLAIN THE REQUIRED SAFETY PROCEDURES.

E. SYSTEMS REQUIREMENT

1. ALL GAS MITIGATION SYSTEMS SHALL BE INSTALLED AS PERMANENT, INTEGRAL ADDITIONS TO THE BUILDING, EXCEPT WHERE A TEMPORARY SYSTEM HAS BEEN INSTALLED.
2. ALL GAS MITIGATION SYSTEMS SHALL BE INSTALLED TO AVOID THE CREATION OF OTHER HEALTH, SAFETY, OR ENVIRONMENTAL HAZARDS TO BUILDING OCCUPANTS, SUCH AS BACKDRAFTING OF NATURAL DRAFT COMBUSTION APPLIANCES.
3. ALL GAS MITIGATION SYSTEMS SHALL MAXIMIZE GAS REDUCTION AND IN CONSIDERATION OF THE NEED TO MINIMIZE EXCESS ENERGY USAGE, TO AVOID COMPROMISING MOISTURE AND TEMPERATURE CONTROLS AND OTHER COMFORT FEATURES, AND TO MINIMIZE NOISE.
4. ALL GAS MITIGATION SYSTEMS AND THEIR COMPONENTS SHALL COMPLY WITH THE LAWS, ORDINANCES, CODES, AND REGULATIONS OF RELEVANT JURISDICTIONAL AUTHORITIES, INCLUDING APPLICABLE MECHANICAL, ELECTRICAL, BUILDING, PLUMBING, ENERGY, AND FIRE PREVENTION CODES.

F. SYSTEMS INSTALLATION

1. GENERAL REQUIREMENTS
   a. ALL COMPONENTS OF GAS MITIGATION SYSTEMS INSTALLED IN COMPLIANCE WITH PROVISIONS OF THE GMS SHALL ALSO BE IN COMPLIANCE WITH THE APPLICABLE MECHANICAL, ELECTRICAL, BUILDING, PLUMBING, ENERGY AND FIRE PREVENTION CODES, STANDARDS, AND REGULATIONS OF THE LOCAL JURISDICTION.
   b. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED LICENSES AND PERMITS, AND DISPLAY THEM IN THE WORK AREAS AS REQUIRED BY LOCAL ORDINANCES.
   c. WHERE PORTIONS OF STRUCTURAL FRAMING MATERIAL MUST BE REMOVED TO ACCOMMODATE GAS VENT PIPES, MATERIAL REMOVED SHALL BE NO GREATER THAN THAT PERMITTED FOR PLUMBING INSTALLATIONS BY APPLICABLE BUILDING OR PLUMBING CODES.
   d. WHERE INSTALLATION OF A GAS MITIGATION SYSTEM REQUIRES PIPES OR DUCTS TO PENETRATE A FIREWALL OR OTHER FIRE RESISTANCE RATED WALL OR FLOOR, PENETRATIONS SHALL BE PROTECTED IN ACCORDANCE WITH APPLICABLE BUILDING, MECHANICAL, FIRE, AND ELECTRICAL CODES.
2. GAS VENT PIPE INSTALLATION REQUIREMENTS
   a. ALL JOINTS AND CONNECTIONS IN GAS MITIGATION SYSTEMS USING PLASTIC VENT PIPES SHALL BE PERMANENTLY SEALED WITH ADHESIVES AS SPECIFIED BY THE MANUFACTURER OF THE PIPE MATERIAL USED. JOINTS OR CONNECTIONS IN OTHER VENT PIPE MATERIALS SHALL BE MADE AIR TIGHT.
   b. ATTIC AND EXTERNAL PIPING RUNS IN AREAS SUBJECT TO SUBFREEZING CONDITIONS SHOULD BE PROTECTED TO AVOID THE RISK OF VENT PIPE FREEZE-UP.
   c. GAS VENT PIPES SHALL BE FASTENED TO THE STRUCTURE OF THE BUILDING WITH HANGERS, STRAPPING, OR OTHER SUPPORTS THAT WILL ADEQUATELY SECURE THE VENT MATERIAL. EXISTING PLUMBING PIPES, DUCTS, OR MECHANICAL EQUIPMENT SHALL NOT BE USED TO SUPPORT OR SECURE A GAS VENT PIPE.
   d. SUPPORTS FOR GAS VENT PIPES SHALL BE INSTALLED AT LEAST EVERY 6 FEET ON HORIZONTAL RUNS. VERTICAL RUNS SHALL BE SECURED EITHER ABOVE OR BELOW THE POINTS OF PENETRATION THRU FLOORS, CEILINGS, AND ROOFS, OR AT LEAST EVERY 8 FEET ON RUNS THAT DO NOT PENETRATE FLOORS, CEILINGS, OR ROOFS.
   e. TO PREVENT BLOCKAGE OF AIR FLOW INTO THE BOTTOM OF GAS VENT PIPES, THESE PIPES SHALL BE SUPPORTED OR SECURED IN A PERMANENT MANNER THAT PREVENTS THEIR DOWNWARD MOVEMENT TO THE BOTTOM OF SUCTION PITS OR SUMP PITS, OR INTO THE SOIL BENEATH AN AGGREGATE LAYER UNDER A SLAB.
   f. GAS VENT PIPES SHALL BE INSTALLED IN A CONFIGURATION THAT ENSURES THAT ANY RAIN WATER OR CONDENSATION WITHIN THE PIPES DRAINS DOWNWARD INTO THE GROUND BENEATH THE SLAB OR SOIL-GAS RETARDER MEMBRANE.
   g. GAS VENT PIPES SHALL NOT BLOCK ACCESS TO ANY AREAS REQUIRING MAINTENANCE OR INSPECTION. GAS VENTS SHALL NOT BE INSTALLED IN FRONT OF OR INTERFERE WITH ANY LIGHT, OPENING, DOOR, WINDOW OR EQUIPMENT ACCESS AREA REQUIRED BY CODE. IF GAS VENT PIPES ARE INSTALLED IN SUMP PITS, THE SYSTEM SHALL BE DESIGNED WITH REMOVABLE OR FLEXIBLE COUPLINGS TO FACILITATE REMOVAL OF THE SUMP PIT COVER FOR SUMP PUMP MAINTENANCE.
3. GAS VENT FAN INSTALLATION REQUIREMENTS
   a. VENT FANS USED IN GAS MITIGATION SYSTEMS SHALL BE SEALED TO REDUCE THE POTENTIAL FOR LEAKAGE OF SOIL GAS FROM THE FAN HOUSING.
   b. GAS VENT FANS SHALL BE SIZED TO PROVIDE THE PRESSURE DIFFERENCE AND AIR FLOW CHARACTERISTICS NECESSARY TO ACHIEVE THE GAS REDUCTION GOALS ESTABLISHED FOR THE SPECIFIC MITIGATION PROJECT
   c. GAS VENT FANS USED IN ACTIVE SOIL DEPRESSURIZATION OR BLOCK WALL DEPRESSURIZATION SYSTEMS SHALL NOT BE INSTALLED BELOW GROUND NOR IN THE CONDITIONED (HEATED/COOLED) SPACE OF A BUILDING, NOR IN ANY BASEMENT, CRAWLSPACE, OR OTHER INTERIOR LOCATION DIRECTLY BENEATH THE CONDITIONED SPACES OF A BUILDING. ACCEPTABLE LOCATIONS FOR GAS VENT FANS INCLUDE ATTICS NOT SUITABLE FOR OCCUPANCY (INCLUDING ATTICS OVER OCCUPIED) OR ON THE EXTERIOR OF THE BUILDING.
   d. GAS VENT FANS SHALL BE INSTALLED IN A CONFIGURATION THAT AVOIDS CONDENSATION BUILDUP IN THE FAN HOUSING. WHENEVER POSSIBLE, FANS SHOULD BE INSTALLED IN VERTICAL RUNS OF THE VENT PIPE.
   e. GAS VENT FANS MOUNTED ON THE EXTERIOR OF BUILDINGS SHALL BE RATED FOR OUTDOOR USE OR INSTALLED IN A WATER TIGHT PROTECTIVE HOUSING.
   f. GAS VENT FANS SHALL BE MOUNTED AND SECURED IN A MANNER THAT MINIMIZES TRANSFER OF VIBRATION TO THE STRUCTURAL FRAMING OF THE BUILDING.
   g. TO FACILITATE MAINTENANCE AND FUTURE REPLACEMENT, GAS VENT FANS SHALL BE INSTALLED IN THE VENT PIPE USING REMOVABLE COUPLINGS OR FLEXIBLE CONNECTIONS THAT CAN BE TIGHTLY SECURED TO BOTH THE FAN AND THE VENT PIPE.
5. SEALING REQUIREMENTS
   a. SUMP PITS THAT PERMIT ENTRY OF SOIL-GAS OR THAT WOULD ALLOW CONDITIONED AIR TO BE DRAWN INTO A SUB-SLAB DEPRESSURIZATION SYSTEM SHALL BE COVERED AND SEALED. THE COVERS ON SUMPS THAT PREVIOUSLY PROVIDED PROTECTION OR RELIEF FROM SURFACE WATER COLLECTION SHALL BE FITTED WITH A WATER OR MECHANICALLY TRAPPED DRAIN. WATER TRAPS SHOULD BE FITTED WITH AN AUTOMATIC SUPPLY OF PRIMING WATER.
   b. OPENINGS AROUND GAS VENT PIPE PENETRATIONS OF THE SLAB, THE FOUNDATION WALLS, OR THE CRAWLSPACE SOIL-GAS RETARDER MEMBRANE SHALL BE CLEANED, PREPARED, AND SEALED IN A PERMANENT, AIR-TIGHT MANNER USING COMPATIBLE CAULKS OR OTHER SEALANT MATERIALS. OPENINGS AROUND OTHER UTILITY PENETRATIONS OF THE SLAB, WALLS, OR SOIL-GAS RETARDER SHALL ALSO BE SEALED.
   c. OPENINGS, PERIMETER CHANNEL DRAINS, OR CRACKS THAT EXIST WHERE THE SLAB MEETS THE FOUNDATION WALL (FLOOR-WALL JOINT), SHALL BE SEALED WITH URETHANE CAULK OR EQUIVALENT MATERIAL. WHEN THE OPENING OR CHANNEL IS GREATER THAN 1/2 INCH IN WIDTH, A FOAM BACKER ROD OR OTHER COMPARABLE FILLER MATERIAL SHALL BE INSERTED IN THE CHANNEL BEFORE APPLICATION OF THE SEALANT. THIS SEALING TECHNIQUE SHALL BE DONE IN A MANNER THAT RETAINS THE CHANNEL FEATURE AS A WATER CONTROL SYSTEM. OTHER OPENINGS OR CRACKS IN SLABS OR AT EXPANSION OR CONTROL JOINTS SHOULD ALSO BE SEALED. OPENINGS OR CRACKS THAT ARE DETERMINED TO BE INACCESSIBLE OR BEYOND THE ABILITY OF THE CONTRACTOR TO SEAL SHALL BE DISCLOSED TO THE CLIENT AND INCLUDED IN THE DOCUMENTATION.
   d. WHEN INSTALLING BASEBOARD-TYPE SUCTION SYSTEMS, ALL SEAMS AND JOINTS IN THE BASEBOARD MATERIAL SHALL BE JOINED AND SEALED USING MATERIALS RECOMMENDED BY THE MANUFACTURER OF THE BASEBOARD SYSTEM. BASEBOARDS SHALL BE SECURED TO WALLS AND FLOORS WITH ADHESIVES DESIGNED AND RECOMMENDED FOR SUCH INSTALLATIONS. IF A BASEBOARD SYSTEM IS INSTALLED ON A BLOCK WALL FOUNDATION, THE TOPS OF THE BLOCKWALL SHALL BE CLOSED AND SEALED.

G. ELECTRICAL REQUIREMENTS

1. WIRING FOR ALL ACTIVE GAS MITIGATION SYSTEMS SHALL CONFORM TO PROVISIONS OF THE NATIONAL ELECTRIC CODE AND ANY ADDITIONAL LOCAL REGULATIONS.
2. WIRING MAY NOT BE LOCATED IN OR CHASED THRU THE MITIGATION INSTALLATION DUCTING OR ANY OTHER HEATING OR COOLING DUCTWORK.
3. GAS MITIGATION FANS INSTALLED ON THE EXTERIOR OF BUILDINGS SHALL BE HARD-WIRED INTO AN ELECTRICAL CIRCUIT. PLUGGED FANS SHALL NOT BE USED OUTDOORS.
4. IF THE RATED ELECTRICITY REQUIREMENTS OF A GAS MITIGATION SYSTEM FAN EXCEEDS 50 PERCENT OF THE CIRCUIT CAPACITY INTO WHICH IT WILL BE CONNECTED, OR IF THE TOTAL CONNECTED LOAD ON THE CIRCUIT (INCLUDING THE GAS VENT FAN) EXCEEDS 80 PERCENT OF THE CIRCUIT'S RATED CAPACITY, A SEPARATE, DEDICATED CIRCUIT SHALL BE INSTALLED TO POWER THE FAN.
5. AN ELECTRICAL DISCONNECT SWITCH OR CIRCUIT BREAKER SHALL BE INSTALLED IN GAS MITIGATION SYSTEM FAN CIRCUITS TO PERMIT DEACTIVATION OF THE FAN FOR MAINTENANCE OR REPAIR BY THE BUILDING OWNER OR SERVICING CONTRACTOR (DISCONNECT SWITCHES ARE NOT REQUIRED WITH PLUGGED FANS).

H. MATERIALS

1. ALL MITIGATION SYSTEM ELECTRICAL COMPONENTS SHALL BE U.L. LISTED OR OF EQUIVALENT SPECIFICATIONS.
2. AS A MINIMUM, ALL PLASTIC VENT PIPES IN MITIGATION SYSTEMS SHALL BE MADE OF SCHEDULE 80 PVC OR EQUIVALENT PIPING MATERIAL.
3. VENT PIPE FITTINGS IN A MITIGATION SYSTEM SHALL BE OF THE SAME MATERIAL AS THE VENT PIPES.
4. CLEANING SOLVENTS AND ADHESIVES USED TO JOIN PLASTIC PIPES AND FITTINGS SHALL BE AS RECOMMENDED BY MANUFACTURERS FOR USE WITH THE TYPE OF PIPE MATERIAL USED IN THE MITIGATION SYSTEM.
5. WHEN SEALING CRACKS IN SLABS AND OTHER SMALL OPENINGS AROUND PENETRATIONS OF THE SLAB AND FOUNDATION WALLS, CAULKS AND SEALANTS DESIGNED FOR SUCH APPLICATION SHALL BE USED. URETHANE SEALANTS ARE RECOMMENDED BECAUSE OF THEIR DURABILITY.
6. WHEN SEALING HOLES FOR PLUMBING ROUGH-IN OR OTHER LARGE OPENINGS IN SLABS AND FOUNDATION WALLS THAT ARE BELOW THE GROUND SURFACE, NON-SHRINK MORTAR, GROUTS, EXPANDING FOAM, OR SIMILAR MATERIALS DESIGNED FOR SUCH APPLICATION SHALL BE USED.

I. MONITORS AND LABELING

1. ALL ACTIVE SOIL DEPRESSURIZATION AND BLOCK WALL DEPRESSURIZATION GAS MITIGATION SYSTEMS SHALL INCLUDE A MECHANISM TO MONITOR SYSTEM PERFORMANCE AND WARN OF SYSTEM FAILURE. THE MECHANISM SHALL BE SIMPLE TO READ OR INTERPRET AND BE LOCATED WHERE IT IS EASILY SEEN OR HEARD BY BUILDING OCCUPANTS AND PROTECTED FROM DAMAGE OR DESTRUCTION.
2. ELECTRICAL GAS MITIGATION SYSTEM MONITORS (WHETHER VISUAL OR AUDIBLE) SHALL BE INSTALLED ON NON-SWITCHED CIRCUITS AND BE DESIGNED TO RESET AUTOMATICALLY WHEN POWER IS RESTORED AFTER SERVICE OR POWER SUPPLY FAILURE. BATTERY OPERATED MONITORING DEVICES SHALL NOT BE USED UNLESS THEY ARE EQUIPPED WITH A LOW POWER WARNING FEATURE.
3. MECHANICAL GAS MITIGATION SYSTEM MONITORS, SUCH AS MANOMETER TYPE PRESSURE GAUGES, SHALL BE CLEARLY MARKED TO INDICATE THE RANGE OR ZONE OF PRESSURE READINGS THAT EXISTED WHEN THE SYSTEM WAS INITIALLY ACTIVATED.
4. A SYSTEM DESCRIPTION LABEL SHALL BE PLACED ON THE MITIGATION SYSTEM, THE ELECTRIC SERVICE ENTRANCE PANEL, OR OTHER PROMINENT LOCATION. THIS LABEL SHALL BE LEGIBLE FROM A DISTANCE OF AT LEAST THREE FEET AND INCLUDE THE FOLLOWING INFORMATION: "GAS REDUCTION SYSTEM," THE INSTALLER'S NAME, PHONE NUMBER, AND RCP IDENTIFICATION NUMBER, THE DATE OF INSTALLATION, AND AN ADVISORY THAT THE BUILDING SHOULD BE TESTED FOR GAS AT LEAST EVERY TWO YEARS OR AS REQUIRED OR RECOMMENDED BY STATE OR LOCAL AGENCIES. IN ADDITION, ALL EXPOSED AND VISIBLE INTERIOR GAS MITIGATION SYSTEM VENT PIPE SECTIONS SHALL BE IDENTIFIED WITH AT LEAST ONE LABEL ON EACH FLOOR LEVEL. THE LABEL SHALL READ, "GAS REDUCTION SYSTEM."
5. THE CIRCUIT BREAKERS CONTROLLING THE CIRCUITS ON WHICH THE GAS VENT FAN AND SYSTEM FAILURE WARNING DEVICES OPERATE SHALL BE LABELED "GAS SYSTEM."

J. POST-MITIGATION TESTING

1. AFTER INSTALLATION OF AN ACTIVE GAS CONTROL SYSTEM (E.G., SSD), THE CONTRACTOR SHALL RE-EXAMINE AND VERIFY THE INTEGRITY OF THE FAN MOUNTING SEALS AND ALL JOINTS IN THE INTERIOR VENT PIPING.
2. AFTER INSTALLATION OF ANY ACTIVE GAS MITIGATION SYSTEM, THE CONTRACTOR SHALL PERFORM TESTS. SEE SPECIFICATION SECTION 072727 'SUBSLAB DEPRESSURIZATION SYSTEM' FOR ADDITIONAL INFORMATION.
3. IMMEDIATELY AFTER INSTALLATION AND ACTIVATION OF ANY ACTIVE (FAN-POWERED) SUB-SLAB DEPRESSURIZATION OR BLOCK WALL DEPRESSURIZATION SYSTEM IN BUILDINGS CONTAINING NATURAL DRAFT COMBUSTION APPLIANCES, THE BUILDING SHALL BE TESTED FOR BACKDRAFTING OF THOSE APPLIANCES. ANY BACKDRAFTING CONDITION THAT RESULTS FROM INSTALLATION OF THE GAS MITIGATION SYSTEM SHALL BE CORRECTED BEFORE THE SYSTEM IS PLACED IN OPERATION.
4. UPON COMPLETION OF GAS MITIGATION WORK, A TEST OF MITIGATION SYSTEM EFFECTIVENESS SHALL BE CONDUCTED. SEE SPECIFICATION SECTION 072726 'GAS VAPOR BARRIER (FLUID APPLIED) FOR ADDITIONAL INFORMATION.
5. TO ENSURE CONTINUED EFFECTIVENESS OF THE GAS MITIGATION SYSTEM(S) INSTALLED, THE CONTRACTOR SHALL ADVISE THE CLIENT TO RETEST THE BUILDING AT LEAST EVERY TWO YEARS OR AS REQUIRED OR RECOMMENDED BY STATE OR LOCAL AUTHORITY. RETESTING IS ALSO RECOMMENDED IF THE BUILDING UNDERGOES SIGNIFICANT ALTERATION.

K. CONTRACTS AND DOCUMENTATION

1. EPA RECOMMENDS THAT CONTRACTORS PROVIDE THE FOLLOWING WRITTEN INFORMATION TO CLIENTS PRIOR TO INITIATION OF WORK:
   a. THE CONTRACTOR'S EPA RPP MITIGATION SERVICE PROVIDER IDENTIFICATION NUMBER.
   b. A STATEMENT THAT DESCRIBES THE PLANNED SCOPE OF THE WORK AND THAT INCLUDES AN ESTIMATE OF THE TIME NEEDED TO COMPLETE THE WORK.
   c. A STATEMENT DESCRIBING ANY KNOWN HAZARDS ASSOCIATED WITH CHEMICALS USED IN OR AS PART OF THE INSTALLATION.
   d. A STATEMENT INDICATING COMPLIANCE WITH AND IMPLEMENTATION OF ALL EPA STANDARDS AND THOSE OF OTHER AGENCIES HAVING JURISDICTION (E.G., CODE REQUIREMENTS).
   e. A STATEMENT DESCRIBING ANY SYSTEM MAINTENANCE THAT THE BUILDING OWNER WOULD BE REQUIRED TO PERFORM.
   f. AN ESTIMATE OF THE INSTALLATION COST AND ANNUAL OPERATING COSTS OF THE SYSTEM.
   g. THE CONDITIONS OF ANY WARRANTY OR GUARANTEE.
2. EPA RECOMMENDS THAT RPP LISTED MITIGATION CONTRACTORS KEEP RECORDS OF ALL GAS MITIGATION WORK PERFORMED AND MAINTAIN THOSE RECORDS FOR 3 YEARS OR FOR THE PERIOD OF ANY WARRANTY OR GUARANTEE, WHICHEVER IS LONGER. THESE RECORDS SHOULD INCLUDE:
3. THE BUILDING INVESTIGATION SUMMARY AND FLOOR PLAN SKETCH.
4. PRE- AND POST-MITIGATION GAS TEST DATA.
5. PRE- AND POST-MITIGATION DIAGNOSTIC TEST DATA.
6. COPIES OF CONTRACTS AND WARRANTIES.
7. A NARRATIVE OR PICTORIAL DESCRIPTION OF MITIGATION SYSTEM(S) INSTALLED.
8. APPENDIX A CONTAINS A SUGGESTED STANDARD FORMAT FOR COMPILING MITIGATION PROJECT RECORDS.
9. OTHER RECORDS OR BOOKKEEPING REQUIRED BY LOCAL, STATE, OR FEDERAL STATUTES AND REGULATIONS SHALL BE MAINTAINED FOR THE PERIOD(S) PRESCRIBED BY THOSE REQUIREMENTS.
10. EPA RECOMMENDS THAT HEALTH AND SAFETY RECORDS, INCLUDING WORKER GAS EXPOSURE LOGS, BE MAINTAINED FOR A MINIMUM OF 20 YEARS.
11. UPON COMPLETION OF THE MITIGATION PROJECT, CONTRACTORS SHALL PROVIDE CLIENTS WITH AN INFORMATION PACKAGE THAT INCLUDES:
12. ANY BUILDING PERMITS REQUIRED BY LOCAL CODES.
13. COPIES OF THE BUILDING INVESTIGATION SUMMARY AND FLOOR PLAN SKETCH.
14. PRE-AND POST-MITIGATION GAS TEST DATA.
15. COPIES OF CONTRACTS AND WARRANTIES.
16. A DESCRIPTION OF THE MITIGATION SYSTEM INSTALLED AND ITS BASIC OPERATING PRINCIPLES.
17. A DESCRIPTION OF ANY DEVIATIONS FROM THE GMS OR STATE REQUIREMENTS.
18. A DESCRIPTION OF THE PROPER OPERATING PROCEDURES OF ANY MECHANICAL OR ELECTRICAL SYSTEMS INSTALLED, INCLUDING MANUFACTURER'S OPERATION AND MAINTENANCE INSTRUCTIONS AND WARRANTIES.
19. A LIST OF APPROPRIATE ACTIONS FOR CLIENTS TO TAKE IF THE SYSTEM FAILURE WARNING DEVICE INDICATES SYSTEM DEGRADATION OR FAILURE.
20. THE NAME, TELEPHONE NUMBER, AND EPA RPP MITIGATION SERVICE PROVIDER IDENTIFICATION NUMBER OF THE CONTRACTOR, AND THE PHONE NUMBER OF THE STATE GAS OFFICE.

THE ACCEPTANCE TESTING SHALL BE AS FOLLOWS:

1. THE EXPLOSIVE GAS MONITORING SYSTEM CONTRACTOR SHALL COMPLETE ACCEPTANCE TESTING TO DEMONSTRATE THAT THE ENTIRE SYSTEMS FUNCTIONS AS DESIGNED. TESTING SHALL INCLUDE:
   A. TESTING EACH FUNCTION OF THE INTEGRATED CONTROLS AT THE CONTROLLER.
   B. CONFIRMATION OF THE CALIBRATIONS OF ALL SENSORS.
   C. TESTING OF ALL COMMUNICATIONS BETWEEN SENSORS AND CONTROLLERS AND BETWEEN THE CONTROLLER AND ALARMS AND AUTO DIALER.
   D. TESTING OF ALL ALARM FUNCTIONS OF ALL SENSORS (ABILITY TO DETECT EXPLOSIVE GAS CONCENTRATIONS) AND OTHER TROUBLE ALARM/DIAGNOSTIC CONDITIONS.
   E. THE CONTRACTOR SHALL CORRECT ALL DEFICIENCIES AND REPEAT THE TESTING FOR ANY ITEMS THAT FAIL INITIAL TESTING. OWNER SHALL NOT ACCEPT THE SYSTEM UNTIL ALL COMPONENTS AND THE ENTIRE COORDINATED SYSTEM HAVE BEEN DEMONSTRATED TO BE OPERATING AS DESIGNED.

FAN SCHEDULE

SF X

PLAN NO	MANUFACTURER MODEL	LOCATION	AREA SERVED	FAN TYPE	FAN PERFORMANCE			ELECTRICAL DATA				dBA	WEIGHT LBS	REMARKS
					CFM	TOTAL SP	FAN RPM	HP/ WATTS	RPM	VOLTS/Ø	DRIVE			
SF-1	FAN AM CAV-100	MEZZ	AS SHOWN	CENT	175	2.38	3450	1/2	3450	115/1	DIRECT	65	48	SEE NOTES
SF-2	FAN AM CAV-100	MEZZ	AS SHOWN	CENT	130	1.40	3450	1/2	3450	115/1	DIRECT	55	45	SEE NOTES

NOTES:
1. PROVIDE ELECTRICAL DISCONNECT, VIBRATION ISOLATION WITH MOUNTING BRACKETS.
2. PROVIDE CONTROLS FROM ATC CONTRACTOR.

FOR CONSTRUCTION

NEW YORK ALTERATION WARNING

IT IS A VIOLATION OF NEW YORK PROFESSIONAL ENGINEER & LAND SURVEY LAWS SECTION 7209.2 FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM IN AN

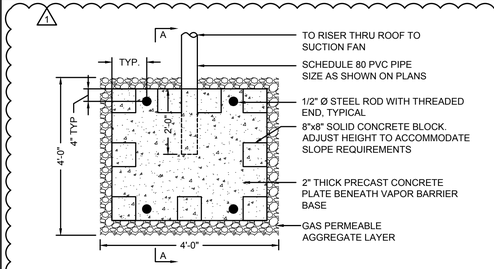

PLAN VIEW - TYPICAL SUB-SLAB DEPRESSURIZATION PIT — 1A
NOT TO SCALE

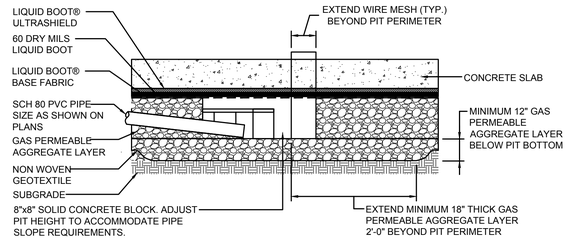

TYPICAL SUB-SLAB DEPRESSURIZATION PIT - SECTION A-A — 1B
NOT TO SCALE

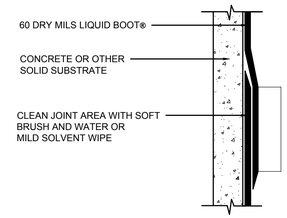

GAS VAPOR BARRIER MEMBRANE LAP JOINTS ON SOLID SUBSTRATE — 2A
NOT TO SCALE

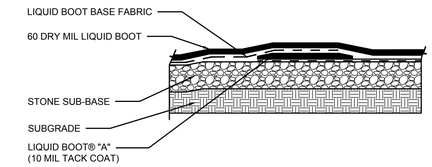

GAS VAPOR BARRIER MEMBRANE LAP JOINTS ON SOLID SUBSTRATE — 2B
NOT TO SCALE

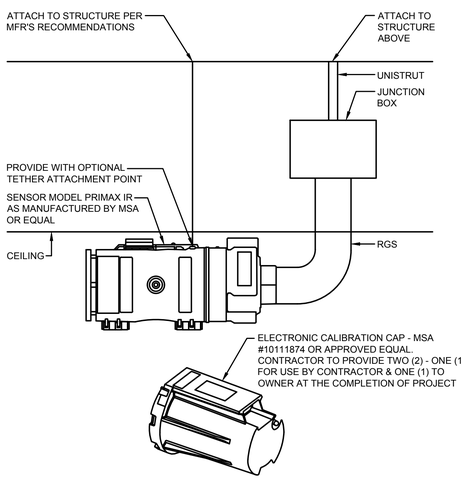

GAS SENSOR DETAIL — 3
NOT TO SCALE

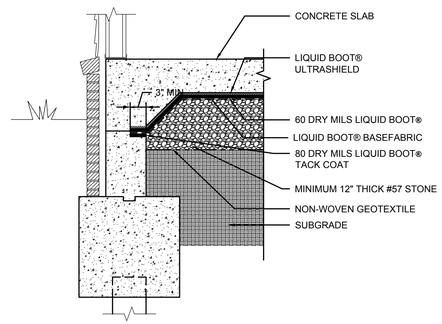

GAS VAPOR BARRIER AT EXTERIOR WALL DETAIL — 4
NOT TO SCALE

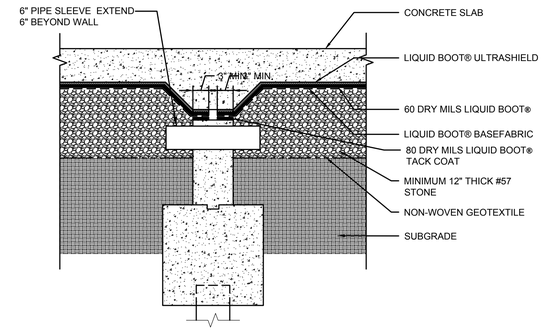

GAS VAPOR BARRIER AT INTERIOR WALL DETAIL — 5
NOT TO SCALE

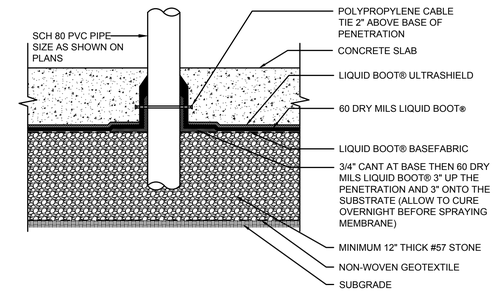

TYPICAL GAS VAPOR BARRIER PENETRATION DETAIL WITHOUT SLEEVE — 6
NOT TO SCALE

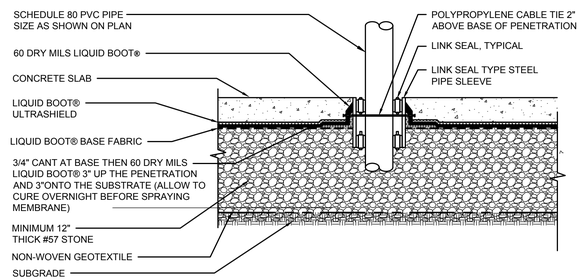

TYPICAL GAS VAPOR BARRIER PENETRATION DETAIL — 7
NOT TO SCALE

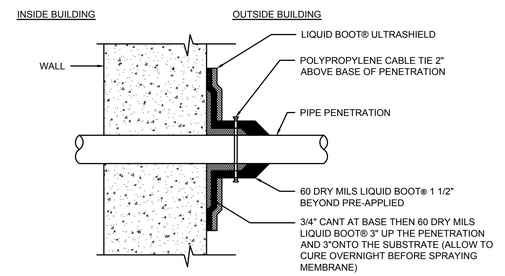

TYPICAL GAS VAPOR BARRIER PENETRATION THRU WALL BELOW GRADE DETAIL WITHOUT SLEEVE — 8A
NOT TO SCALE

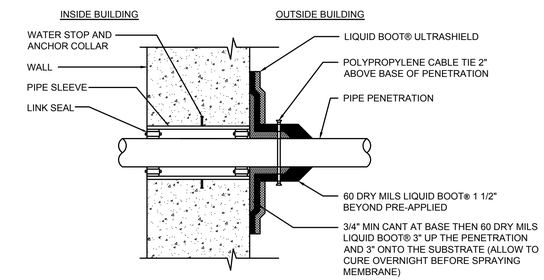

TYPICAL GAS VAPOR BARRIER PENETRATION THRU WALL BELOW GRADE DETAIL WITH SLEEVE — 8B
NOT TO SCALE

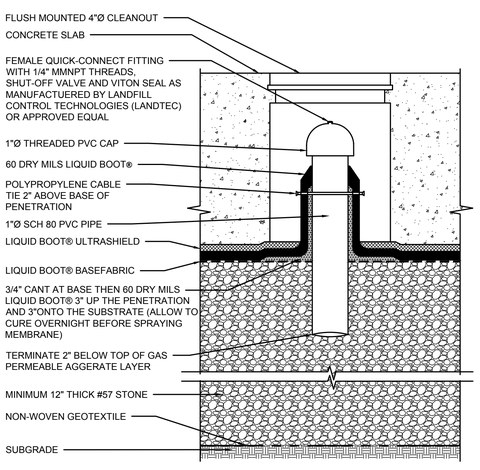

SUB-SLAB MONITORING POINT DETAIL — 9
NOT TO SCALE

NOTES:
1. CONTRACTOR TO SUPPLY SHOP DRAWINGS OF PROPOSED CONSTRUCTION DETAILS FOR APPROVAL. ALL PENETRATIONS SHALL BE CLEANED PER SPECIFICATIONS BEFORE LIQUID BOOT IS APPLIED.
2. CONTRACTOR SHALL SUBMIT TO SCALE SKETCHES SHOWING PROPOSED PIPE JOINT LOCATIONS. ENGINEERS APPROVAL OF PIPE JOINT LOCATIONS SHALL BE REQUIRED PRIOR TO CONSTRUCTION.
3. FURNISH ESCUTCHEONS AS SPECIFIED.

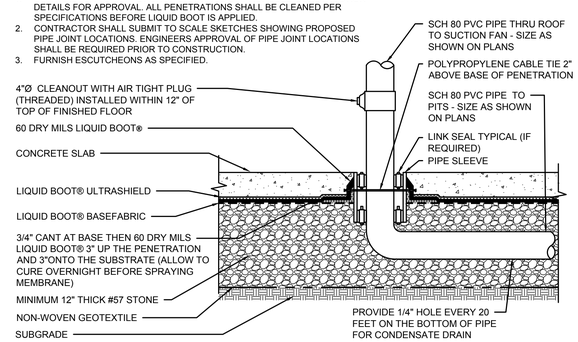

TYPICAL SSDS RISER DETAIL AT FLOOR SLAB — 10
NOT TO SCALE

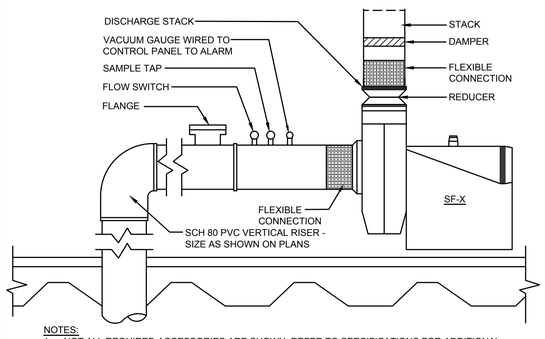

NOTES:
1. NOT ALL REQUIRED ACCESSORIES ARE SHOWN. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. ELECTRICAL WIRING & EQUIPMENT NOT SHOW. REFER TO ELECTRICAL DWGS AND SPECIFICATIONS FOR REQUIREMENTS.
3. PIPE AND EQUIPMENT ARRANGEMENT SHOW FOR SCHEMATIC PURPOSES ONLY. SUBMIT TO SCALE DRAWINGS SHOWING PROPOSED ARRANGEMENT. CONTRACTOR IS REQUIRED TO OBTAIN ENGINEER REVIEW OF ARRANGEMENT.
4. THE SUCTION FAN EXHAUST MUST BE A MINIMUM OF 10 FEET FROM ANY BUILDING INTAKE OR OPERABLE WINDOW.

SUCTION FAN DETAIL — 11
NOT TO SCALE

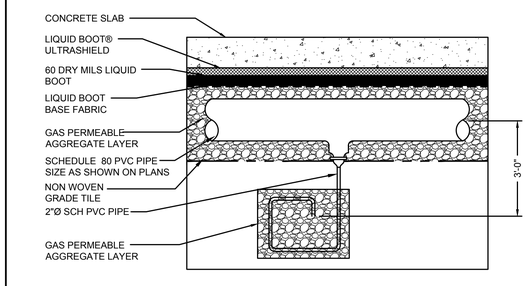

TYPICAL LOW POINT CONDENSATE DRAIN DETAIL — 12
NOT TO SCALE

FOR CONSTRUCTION

NEW YORK ALTERATION WARNING

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FRENCH & PARRELLO ASSOCIATES
Corporate Office
1800 Route 34, Suite 101
Wall, NJ 07719
732 312-9800
Regional Offices
Hackettstown, NJ
New York, NY

JONATHAN V. CRAWFORD, PE
PROFESSIONAL ENGINEER, NY LIC. No. 91249

HART | HOWERTON
PLANNERS ARCHITECTS
LANDSCAPE ARCHITECTS
HART/HOWERTON, PLANNING, ARCHITECTURE AND LANDSCAPE ARCHITECTURE, P.C.
10 East 40th Street New York, NY 10016
Tel: 212 683 5631 Fax: 212 481 3768
E-mail: NY@harthowerton.com

TRUMP
THE TRUMP ORGANIZATION

TRUMP GOLF LINKS FERRY POINT PARK
500 Hutchinson River Parkway
Bronx, New York 10465

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SCALE:
NOTE: IF THIS DRAWING IS NOT 24"X36", IT HAS BEEN REVISED FROM ITS ORIGINAL SIZE. SCALE IS NO LONGER APPLICABLE.

DATE	ISSUE
04-16-15	100% DD
06-02-15	30% CD
07-01-15	70% CD
07-27-15	90% CD
09-15-17	FOR CONSTRUCTION

REVISIONS

NO	DATE	ISSUE
	02-17-17	REMOVE BSMT
	03-30-17	DEC REVIEW
3	04-07-17	RE-BID/ REMOVE BSMT
4	05-05-17	COMMENTS

DRAWING TITLE: VAPOR REMEDIATION DETAILS

PROJECT #: 14-534
DRAWN BY:
CHECKED BY: FRM
DRAWING NO: FO-504.00

O:\9K\9600\9834 - Ferry Point Clubhouse\CADD\DWG\9834.001 - FO-503.dwg

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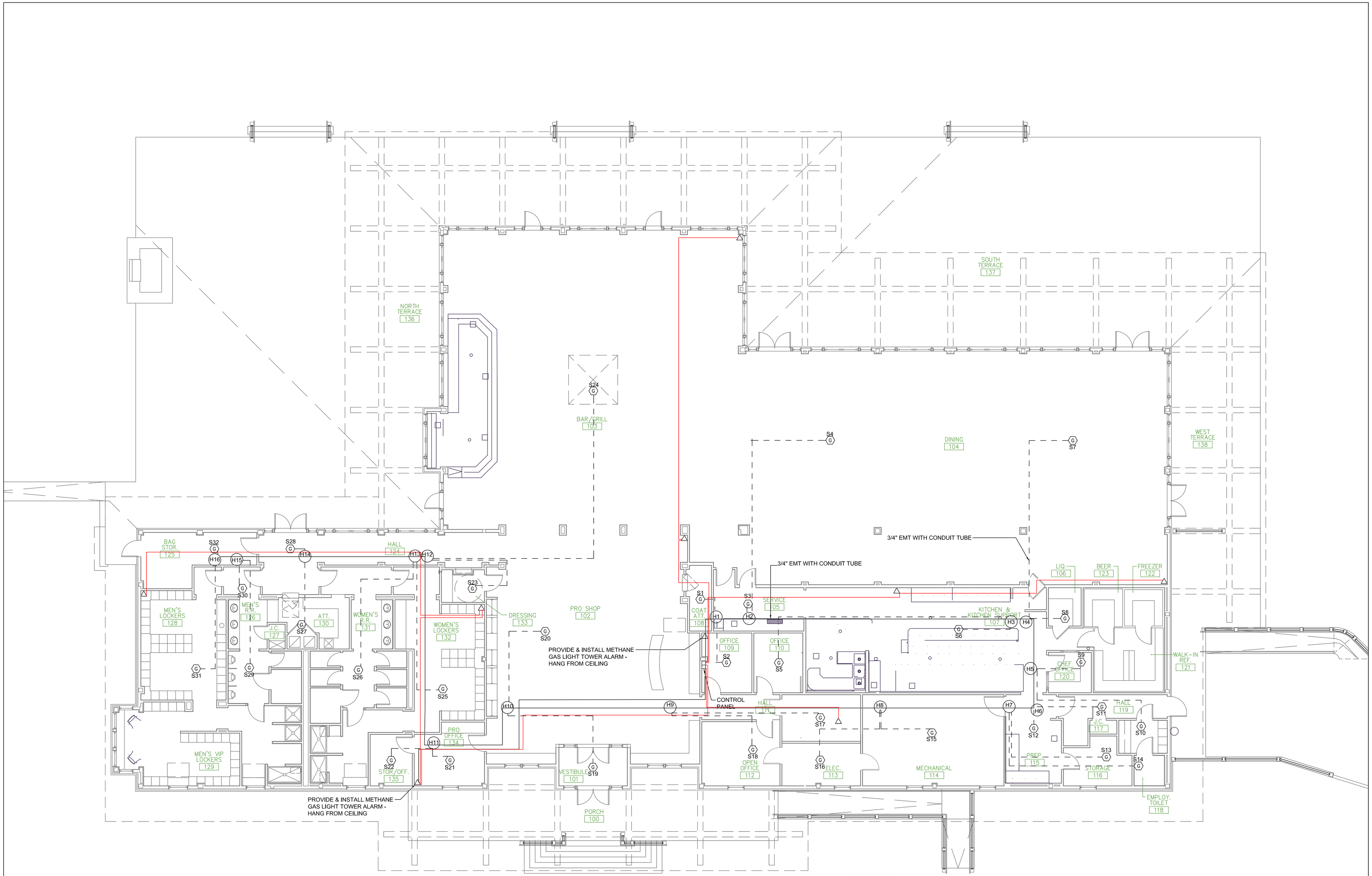

LEGEND

- GAS SENSOR
- METHANE GAS SENSOR CONTROL PANEL
- METHANE GAS LIGHT TOWER ALARM
- 3/4" EMT WITH CONDUIT TUBE
- 3/4" EMT WITH CONDUIT TUBE
- POWER SUPPLY/ TRANSMITTER WITH POWER
- RED FIREWIRE ALARM CABLE

Environmental Management Services

50 Prescott Street
Jersey City, NJ 07304
Phone: 201-395-0010
Fax: 201-395-0020

No.	Date	Revision

Designer:		
Drawn by:	CM	
Checked by:	ML	
Scale: 1/8" = 1'		Date: 9/21/2017

Project:
FERRY POINT CLUBHOUSE

Address:
300 HUTCHINSON RIVER PARKWAY
BRONX, NEW YORK 10465

Drawing Title:
METHANE MONITORING SYSTEM
CEILING PLAN

Drawing No.:
SD201

Sheets in Drawing Set:
01 of 01

APPENDIX D

Letter from NYSDEC to Trump Golf Links at Ferry Point re: "Ferry Point Park SSDS Foundation Drawings – Trump Golf Links Clubhouse" dated June 22, 2017

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4996 I F: (718) 482-6391
www.dec.ny.gov

June 22, 2017

Joe Roediger
General Manager
Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, NY 10465

Re: Ferry Point Park
SSDS/Foundation Drawings – Trump Golf Links Clubhouse

Dear Mr. Roediger,

New York State Department of Environmental Conservation (department) staff have reviewed the Ferry Point Park Sub-Slab Depressurization System plan and included attachments, prepared by French & Parrello Associates, which was provided by your letter dated June 12th, 2017.

The above-referenced plan appears to comply with the applicable regulations, and, therefore, is approved on the following conditions:

1) The alarm set point for the gas monitoring system is set to 25% LEL.

2) On the completion of the project and prior to occupancy of the building, a construction certification letter from a New York State registered professional engineer must be sent to the department for approval stating that the Ferry Point Park Sub-Slab Depressurization System and Foundation was constructed in accordance with the above-referenced plan and attachments. If there are deviations to the construction, they must be specified.

If you have any questions you may contact me at 718-482-4996.

Sincerely yours,

Kenneth B. Brezner

Kenneth B. Brezner, P.E.
Regional Material Management Engineer

ec: J. O'Connell/W. Frank, R2 DMM
K. Zias, NYC DPR

FPP_SSDSFoundation_Plan_Approval.2017-06-22.Letter.docx

APPENDIX E

Maser Consulting P.A. Letter of Transmittal to NYSDEC (via the Trump Organization) re: "Construction Certification – SSDS" dated June 7, 2018

MASER CONSULTING P.A.

Engineers
Planners
Surveyors
Landscape Architects
Environmental Scientists

2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
T: 856.797.0412
F: 856.722.1120
www.maserconsulting.com

LETTER OF TRANSMITTAL

To: NYS Dept. of Environmental Conservation
Division of Materials Management, Reg. 2
47-40 21st Street
Long Island City, NY 11101

Date: 06/07/2018	Job No.: 17002426A
Attention:	Kenneth B. Brezner, P.E.
	Regional Material Management Engineer
RE:	Construction Certification
	Subslab Depressurization System (SSDS)
	Trump Golf Links at Ferry Point Clubhouse, Bronx NY
VIA	

WE ARE SENDING YOU:

- [ ] **CD**
- [ ] **Under separate cover** _____ **the following items:**

- [ ] **Shop Drawings**
- [ ] **Samples**
- [ ] **Change order**
- [ ] **Prints**
- [ ] **Specifications**
- [ ] **Plans**
- [ ] **Copy of Letter**

COPIES	DATE	NO.	Description
1	06/22/17	1	Letter from NYSDEC to Trump Golf Links at Ferry Point (Joe Roediger) re: Ferry Point Park – SSDS/Foundation Drawings – Trump Golf Links Clubhouse
1	06/07/18	1	Construction Certification Statement from Donald Bowman, P.E., New York Registration No. 095674
1	06/07/18	1	Site Summary
1	09/15/17	1	Drawing No. FO-500.00 "Vapor Remediation Underslab Plan" issued for construction
1	09/15/17	1	Drawing No. FO-501.00 "Vapor Remediation Floor Plan" issued for construction
1	09/15/17	1	Drawing No. FO-502.00 "Vapor Remediation Attic & Mezzanine Plan" issued for construction
1	09/15/17	1	Drawing No. FO-503.00 "Vapor Remediation Notes & Schedule" issued for construction
1	09/15/17	1	Drawing No. FO-504.00 "Vapor Remediation Details" issued for construction
1	06/07/18	1	Drawing Nos. FO-500, FP-501, FO-502 & FO-504 showing deviations from design
1	06/07/18	1	CD of Construction Daily Field Reports

THESE ARE TRANSMITTED as checked below:

- [x] **For approval**
- [ ] **For your use**
- [ ] **As Requested**
- [ ] **For review and comment**
- [ ] **FOR BIDS DUE:**
- [ ] **Approved as submitted**
- [ ] **Approved as noted**
- [ ] **Returned for corrections**
- [ ] **Resubmit copies for approval**
- [ ] **Submit copies for distribution**
- [ ] **Returned corrected prints**
- [ ] **PRINTS RETURNED AFTER LOAN TO US**

REMARKS:

Signed: Donald Bowman, P.E.

Copy To: Kay Zias, NYC Department of Parks & Recreation
Steve Lauria, P.E., Woodard & Curran
John Gruber, Construction Manager, The Trump Organization
Joe Roediger, General Manager, The Trump Organization

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4996 I F: (718) 482-6391
www.dec.ny.gov

June 22, 2017

Joe Roediger
General Manager
Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, NY 10465

Re: Ferry Point Park
SSDS/Foundation Drawings – Trump Golf Links Clubhouse

Dear Mr. Roediger,

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2) On the completion of the project and prior to occupancy of the building, a construction certification letter from a New York State registered professional engineer must be sent to the department for approval stating that the Ferry Point Park Sub-Slab Depressurization System and Foundation was constructed in accordance with the above-referenced plan and attachments. If there are deviations to the construction, they must be specified.

If you have any questions you may contact me at 718-482-4996.

Sincerely yours,

Kenneth B. Brezner

Kenneth B. Brezner, P.E.
Regional Material Management Engineer

ec: J. O'Connell/W. Frank, R2 DMM
K. Zias, NYC DPR

FPP_SSDSFoundation_Plan_Approval.2017-06-22.Letter.docx

Certification Statement

I, Donald Bowman, an employee of Maser Consulting P.A. and a Registered Professional Engineer licensed by the State of New York, exercising independent judgment and discretion do hereby certify that this Subslab Depressurization System (SSDS) for the Trump Golf Links at Ferry Point Clubhouse was constructed under my direction and supervision. The information contained herein is based upon: (1) work which I have personally inspected both during and after construction from July 2017 to date; (2) information provided to me by those directly employed by Maser Consulting P.A.; (3) Design Consultants; and (4) contractors responsible for construction pursuant to their contracts except as indicated[1].

I certify that, from July 2017 to date, Maser Consulting representatives observed the installation of the critical elements of the SSDS for the Trump Golf Links at Ferry Point Clubhouse, with the following deviations from design:

- Drawing No. FO-500.00 "Vapor Remediation Underslab Plan" – lateral piping to SSDS pits DP-2B & DP-2C built approximately 2 feet offset from design due to piping conflicts
- Drawing No. FO-501.00 "Vapor Remediation Floor Plan" – riser piping for fan units SF-1 & SF built within walls to conceal system and prevent unauthorized access; gas sensors in Hall 124, Vestibule 101 & Electrical 113 ceilings built approximately 3-5 feet from design due to piping conflicts
- Drawing No. FO-502.00 "Vapor Remediation Attic & Mezzanine Plan" – fan unit SF-1 built approximately 10 feet to the left of design due to piping conflicts
- Drawing No. FO-504.00 "Vapor Remediation Details" – detail 1B built using hollow (instead of solid) concrete blocks; 'Methane Gas Sensor Detail (option 1)' & 'Methane Gas Sensor Detail (option 2)' added for sensor plenum boxes

STATE OF NEW YORK
DONALD F. BOWMAN
No. 095674
LICENSED PROFESSIONAL ENGINEER

Donald Bowman, P.E.
Maser Consulting P.A.

6/7/2018
Date

[1] Certification means a statement of professional opinion based upon investigation, analysis, knowledge and belief that is stated to be true and accurate. 6 NYCRR Part 360-1.2(b)24.

Site Summary[1]

Ferry Point Park in the Bronx (the "Site") is a former landfill covering 222 acres that is bound by the Bronx-Whitestone Bridge and Hutchinson River Parkway to the west, Balcom/Miles/Emerson Avenues to the east, Schley Avenue and St. Raymond's Cemetery to the north, and the East River to the south. The project was originally managed under Ferry Point Partners, LLC and was taken over solely by the City of New York Department of Parks and Recreation in October 2007.

The origins of the site back to the early 1900s. At that time an available 1900 map of the Bronx showed the western edge of the site which now contains the expressway and Whitestone Bridge was a long narrow peninsula extending out to the same area that the northern landing of the Whitestone Bridge now extends. Immediately east of this peninsula was a large open bay which is the area that the Ferry Point Golf Course is now located. Northeast of the bay and well inlandwas the Baxter Creek that drained into the bay. The eastern landfall of this embayment area is a larger peninsula that contains roadways and a residential development. The road patterns do not resemble the roadways that currently exist in that area and appear to have been changed.

A 1938 aerial photo showing the construction of the Whitestone Bridge shows the Bay, mooring, residential area and land to the west to be virtually the same as shown in the 1900 map. The significant change is in the widening of the western peninsula where the expressway was being constructed leading to the bridge ramps. The widening was not significant at this time but a rectangular area in the extreme northwest corner of what is now the site appears to be filled and graded – possibly to support construction staging area for the bridge/expressway. Areas of filling can be readily identified in the photograph by the contrasting lighter color typically indicative of sandy dredge sand placement. Other areas along the shoreline can be seen as containing a lighter colored band of fill material and this includes much of the new Ferry Point Park located west of the Whitestone Bridge. Much of the park area was filled and graded by 1938. Bulkheads were constructed with linear components to present a smooth shoreline but one that does not appear to contain a beach where water diminishes in depth to 0. Photos of the eastern area of the bay where mooring and docks can be seen showing large vessels moored against the shore. This would indicate the water had significant depth all of the way to the center of the bay.

Aerial photographs from the 1950s show a drastic change in the area currently referred to as the site. Large expansion of the filling that was evident in 1938-39 up in the northeast corner can be clearly seen. The filling extends well into the bay and it appears that a connective bridge was constructed from the eastern shore to the fill area. It is difficult to discern if this is a usable structure for crossing or if it had some other purpose. The filling operation appears from the photo to consist of the same light-colored material that was placed in the Ferry Point Park and from photos showing a large number of barges in the water filled with material of the same light color. There is specific documentation that presents the specific origin and consistency of the

[1] Reference: "Ferry Point Park Golf Course & Community Park, Bronx New York, Final Construction Certification Report, NYSDEC Permit #2-6006-00014 / 00013 (SW)" prepared by the City of New York Department of Parks and Recreation dated October 19, 2015

material. but from the prior aerials showing filling and this large expansion, it appears to be of a similar origin which would be dredge sand. In the 1951 aerial, no specific municipal solid waste dumping and disposal can be seen; however, records indicate the landfill operated during this approximate time period. It is therefore assumed that municipal solid waste was disposed shortly after the photo was taken. The landfilling shown in the aerial may have been the initial construction of the upper portion of the landfill with the tidal gate or bridge closing in the upper bay area. Additional aerials of the landfilling were not identified and more recent aerials document the completion of filling as well as the more recent golf course construction.

What can be discerned from this compilation of photos is that the landfill could be located in an area that may have been open water as well as some area that was previously reclaimed land with dredge material.

The Site operated as a landfill from before 1951 to the 1960s. The landfill reportedly accepted municipal solid waste during its operating period and was closed and covered in the mid-1960s, with additional closure operations conducted more recently in the 1980s. Prior Site use was determined from historic aerial photographs from 1938 thru 1991. The aerial photographs span the entire operational period of the prior landfill, from its initial operations to the present, and provides substantial information about the Site's development.

The original project scope included the construction of three main elements including a golf course, a community park, and a waterfront park over the 222-acre Site as follows:

- An 18-hole golf course with practice facility, driving range, clubhouse, maintenance facility, irrigation lake, stormwater retention ponds, and a parking lot (192.5 acres);
- A passive recreation waterfront park with walkways and a comfort station (19.5 acres); and
- A community park with baseball fields, basketball court, walkways, comfort station, and landscaped stormwater retention area (10 acres)

Construction of a permanent clubhouse in the southern corner of the site began in July 2017, with a projected completion date of June 2018.

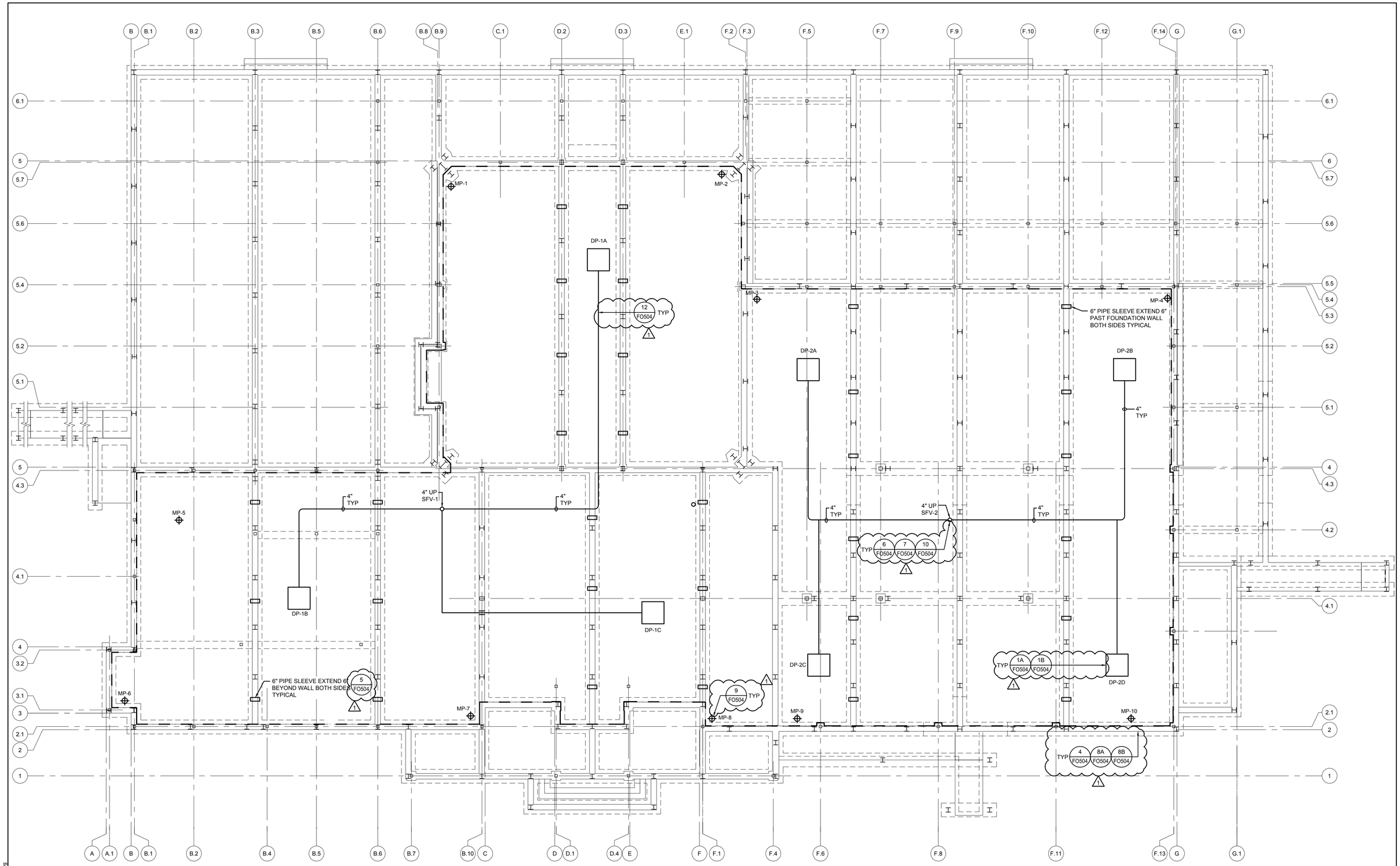

UNDERSLAB PLAN

SCALE: 1/8" = 1'-0"

NOTES :

1. DRAWINGS NOT TO BE USED FOR STRUCTURAL, ARCHITECTURAL OR OTHER REFERENCE EXCEPT FOR SUB-SLAB DEPRESSURIZATION SYSTEM.
2. THE EXTENTS OF BUILDING CONSTRUCTION BENEATH THE FLOOR SLABS SHALL BE LINED WITH GAS VAPOR BARRIER. AS PART OF BUILDING CONSTRUCTION, THE GAS VAPOR BARRIER SHALL ALSO BE APPLIED VERTICALLY TO BELOW GRADE WALLS AND WALLS OF PITS AND SUMPS AS SHOWN AND SPECIFIED.
3. SLOPE HORIZONTAL PIPE UNIFORMLY A MINIMUM OF 1% TOWARD SUB-SLAB DEPRESSION SYSTEM PITS OR TO CONDENSATE DRAINS WHEN PIPING CANNOT BE SLOPED TO PIT.
4. SECURE VERTICAL RISER TO WALL IN ACCORDANCE WITH ARCHITECTURAL AND PLUMBING REQUIREMENTS.
5. ELECTRICAL WIRING AND EQUIPMENT NOT SHOWN. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR REFERENCES.
6. SEAL ALL JOINTS IN SLAB ON GRADE, INCLUDING BUT NOT LIMITED TO, CONTROL JOINTS, EXPANSION JOINTS, CRACKS, WALL JOINTS, PENETRATIONS ETC. WITH NON-CRACKING CAULK. POLYURETHANE TYPE PREFERRED.
7. COORDINATE GAS VENTING SYSTEM WITH ALL TRADES, INCLUDE VENTING SYSTEM PIPING ON COORDINATION DRAWINGS.
8. ALL GAS VENTS SHALL BE CONTINUOUS FROM UNDERSLAB STONE BASE TO 36" ABOVE ROOF LINE OR PARAPET (WHICHEVER IS HIGHER). ALL VENTS SHALL BE 10'-0" MIN FROM LOT LINES, OUTSIDE AIR INTAKES, WINDOWS, ETC.
9. DRAWING ILLUSTRATES WALLS AND ALL SLAB ON GRADE FLOOR AREAS. COORDINATE THIS WORK WITH ARCHITECTURAL, MECHANICAL, AND STRUCTURAL PLANS.
10. ALL GAS VENT PIPING SHALL BE PVC PIPING. WHERE PIPING IS LOCATED IN RETURN AIR PLENUMS CHANGE MATERIAL TO NO-HUB CAST IRON PIPE.
11. LABEL GAS PIPING AT INTERVALS OF NOT MORE THAN 25 FT IN CONCEALED LOCATIONS AND NOT MORE THAN 50 FT ON EXPOSED AND NOT LESS THAN ONCE IN ANY ROOM OR SPACE.
12. GAS VAPOR BARRIER TO BE INSTALLED IMMEDIATELY BELOW FLOOR SLAB AS INDICATED ON THE STRUCTURAL DRAWINGS. PROVIDE 12" MINIMUM CLEAN #57 STONE SUB-BASE FOR GAS MITIGATION SYSTEM.
13. SLOPE HORIZONTAL PIPE A MINIMUM OF 1% UNIFORMLY TOWARD SUCTION PITS.
14. REFER TO SPECIFICATION FOR ADDITIONAL SUB-SLAB DEPRESSURIZATION SYSTEM AND ACCESSORIES REQUIREMENTS.

LEGEND

- EXTENT OF GAS PERMEABLE AGGREGATE LAYER BENEATH FLOOR SLAB
- 4" SCHEDULE 80 PVC PIPE
- SFV-1 — SUCTION FAN VERTICAL 4" RISER AND IDENTIFICATION NUMBER. EXTEND THRU ATTIC TO SUCTION FAN
- MP-1 — SUB-SLAB MONITORING POINT AND IDENTIFICATION NUMBER
- DP-1A — SUB-SLAB DEPRESURAIZATION PIT AND IDENTIFICATION NUMBER

PROVIDE LIQUID BOOT GAS VAPOR BARRIER SYSTEM UNDER SLAB AS MANUFACTURED BY CETCO CONSISTING OF ULTRASHIELD G-1000, 60 DRY MILS LIQUID BOOT AND LIQUID BOOT BASE FABRIC. SYSTEM SHALL INSTALLED BY AUTHORIZED INSTALLER. REFER TO DETAILS FOR ADDITIONAL INFORMATION. REFER TO CONTRACT DOCUMENTS FOR LOCATIONS OF PENETRATIONS THROUGH THE SLAB.

OFFSET VENT ABOVE CEILING AT ROOF AND EXTEND THROUGH ROOF APPROXIMATELY 3' FROM PARAPET WALLS AND TERMINATE 24" ABOVE FINISHED ROOF.

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09-15-17	FOR CONSTRUCTION

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	03-30-17	DEC REVIEW
	04-07-17	RE-BID/ REMOVE BSMT
4	05-05-17	COMMENTS

DRAWING TITLE: VAPOR REMEDIATION UNDERSLAB PLAN

PROJECT #: 14-534
DRAWN BY:
CHECKED BY: FRM

DRAWING NO: FO-500.00

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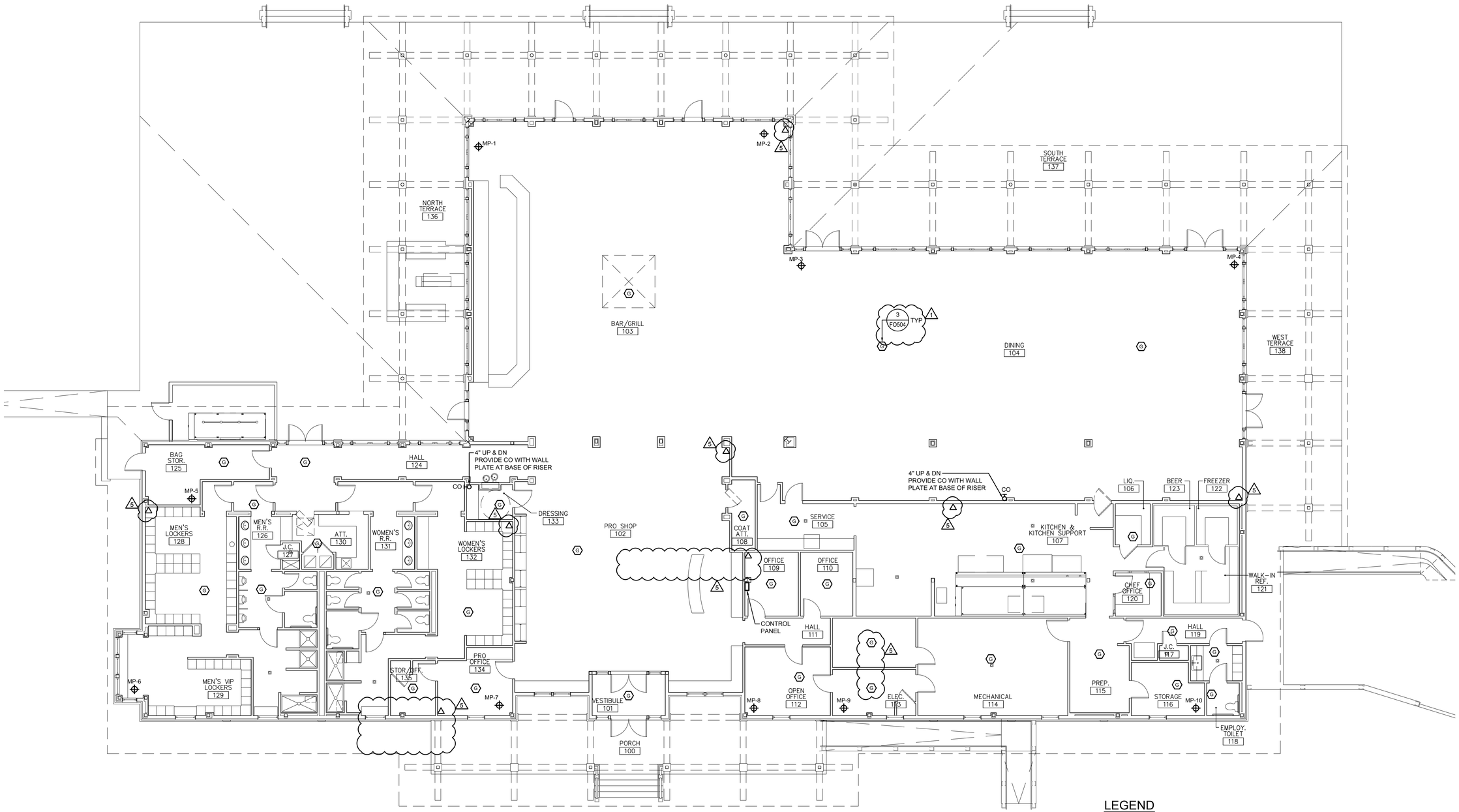

FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

LEGEND

SFV-1	SUCTION FAN VERTICAL 4" RISER AND IDENTIFICATION NUMBER. EXTEND THRU ATTIC TO SUCTION FAN
MP-1	SUB-SLAB MONITORING POINT AND IDENTIFICATION NUMBER
G	GAS SENSOR
	METHANE GAS SENSOR CONTROL PANEL
△	METHANE GAS LIGHT TOWER ALARM - HANG FROM CEILING

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5	06-06-17	DEC COMMENTS

DRAWING TITLE: VAPOR REMEDIATION FLOOR PLAN

PROJECT #: 14-534
DRAWN BY:
CHECKED BY: FRM

DRAWING NO: FO-501.00

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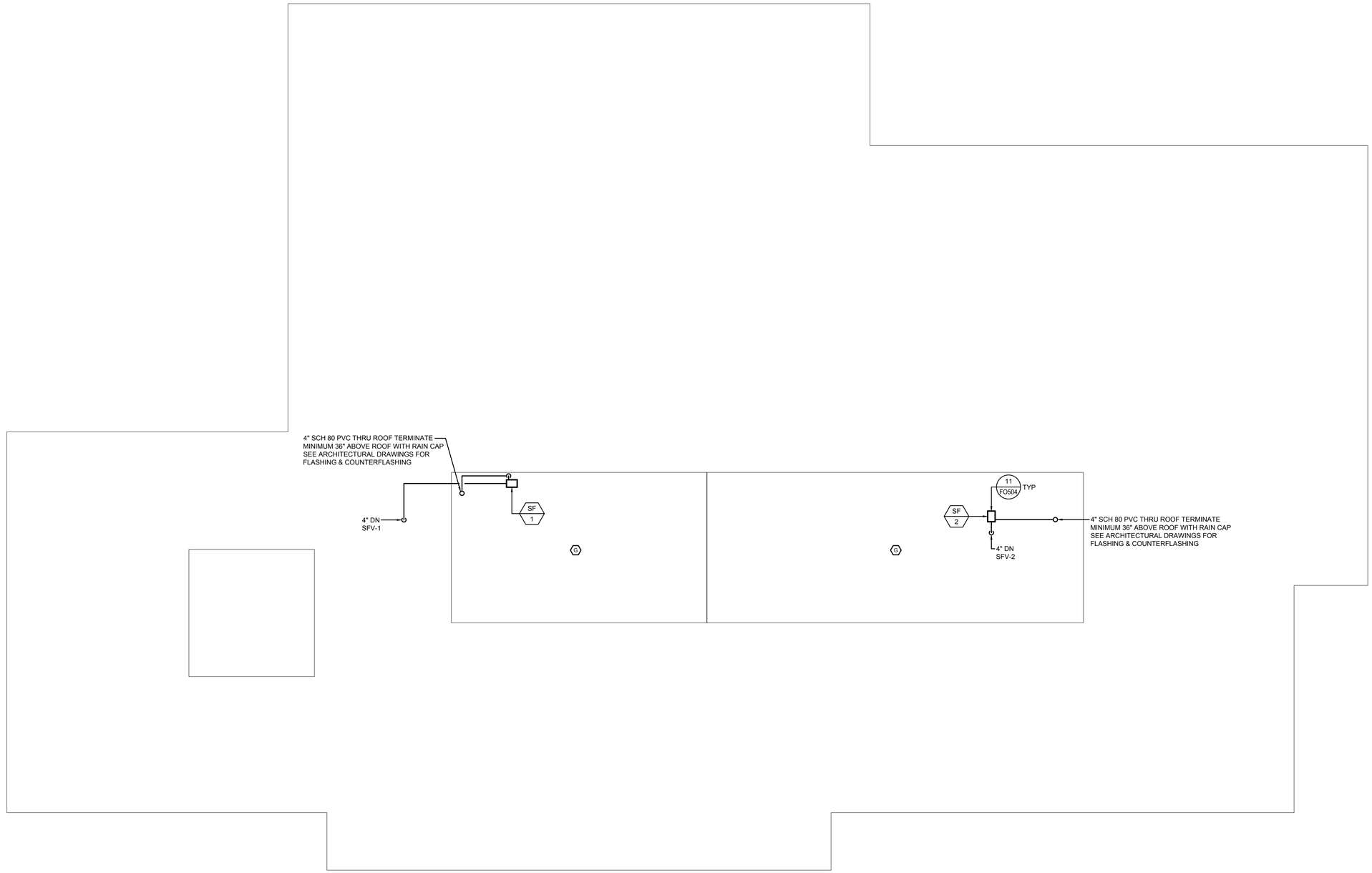

ATTIC/MEZZANINE PLAN

SCALE: 1/8" = 1'-0"

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4	05-05-17	COMMENTS
5	09-06-17	VE

DRAWING TITLE:
VAPOR REMEDIATION ATTIC & MEZZANINE PLAN

PROJECT #: 14-534
DRAWN BY:
CHECKED BY: FRM

DRAWING NO:
FO-502.00

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VAPOR REMEDIATION GENERAL NOTES

A. SCOPE

1. ALL CONSTRUCTION SHALL COMPLY WITH THE NYSDEC APPROVED POST CONSTRUCTION CUSTODIAL CARE PLAN DATED OCTOBER 2013, PREPARED BY NYC DPR, INCLUDING THE APPROPRIATE HANDLING OF COVER, SOIL, SHAPING LAYER MATERIAL, DEMARCATION LAYER MATERIALS, AND MSW, AND INSPECTION AND CONSTRUCTION CERTIFICATION REQUIREMENTS.
2. THE GAS MITIGATION SYSTEM IS TO BE INSTALLED BY A LICENSED GAS MITIGATION CONTRACTOR IN THE STATE OF NEW YORK. CONTRACTOR TO SUBMIT DESIGN SHOP DRAWINGS FOR REVIEW PRIOR TO CONSTRUCTION.
3. THE REQUIREMENTS ADDRESSED IN THE GAS MITIGATION SYSTEM (GMS) INCLUDE THE FOLLOWING CATEGORIES OF CONTRACTOR ACTIVITY: GENERAL PRACTICES, WORKER HEALTH AND SAFETY, SYSTEMS INSTALLATION, MATERIALS, MONITORS AND LABELING, POST-MITIGATION TESTING, AND CONTRACTS AND DOCUMENTATION.

B. IMPLEMENTATION

1. THE GMS INCLUDES REQUIREMENTS FOR INSTALLATION OF GAS REMEDIATION SYSTEMS AND PROVIDES A BASIS FOR EVALUATING THE QUALITY OF THOSE INSTALLATIONS. IT MAY BE ADOPTED BY STATE REGULATORY AGENCIES FOR STATE OR LOCAL GAS MITIGATION CONTRACTOR LICENSURE PROGRAMS. IT MAY ALSO BE USED AS A REFERENCE DURING INSPECTION OF IN-PROGRESS OR COMPLETED GAS MITIGATION WORK.
2. CONTRACTORS SHALL PERSONALLY CONDUCT FOLLOW-UP INSPECTION OF ANY GAS MITIGATION SYSTEMS INSTALLED BY THEIR FIRM OR BY SUBCONTRACTORS TO INSURE CONFORMANCE WITH THE REQUIREMENTS OF THE GMS. THIS REQUIREMENT SHALL INCLUDE THE POST-MITIGATION TESTING PRESCRIBED IN THIS SPECIFICATION.
3. THOSE PROVISIONS OF THE GMS THAT ARE CONSIDERED TO BE MANDATORY ARE PREFACED BY THE TERM "SHALL." PROVISIONS THAT ARE CONSIDERED GOOD PRACTICE BUT WHICH ARE NOT MANDATORY ARE PREFACED BY THE TEGMS "SHOULD" OR "RECOMMENDED."

C. LIMITATIONS

1. ALTHOUGH THE PROVISIONS OF THE GMS HAVE BEEN CAREFULLY REVIEWED FOR POTENTIAL CONFLICTS WITH OTHER REGULATORY REQUIREMENTS, ADHERENCE TO THE GMS DOES NOT GUARANTEE COMPLIANCE WITH THE APPLICABLE CODES OR REGULATIONS OF ANY OTHER FEDERAL, STATE, OR LOCAL AGENCY HAVING JURISDICTION.
2. WHERE DISCREPANCIES EXIST BETWEEN PROVISIONS OF THE GMS AND LOCAL CODES OR REGULATIONS, LOCAL CODES SHALL TAKE PRECEDENCE. HOWEVER, WHERE COMPLIANCE WITH LOCAL CODES NECESSITATES A DEVIATION FROM THE GMS, EPA RECOMMENDS THAT RPP LISTED MITIGATION SERVICE PROVIDERS (MITIGATION CONTRACTORS) REPORT THE DEVIATION IN WRITING TO THE APPROPRIATE EPA REGIONAL OFFICE AND THE APPROPRIATE STATE REGULATORY OFFICIAL WITHIN 30 DAYS. IT SHOULD BE NOTED THAT EPA IS NOT REQUIRING THE REPORTING THAT IS RECOMMENDED IN THIS PARAGRAPH. STATES WITH GAS MITIGATION CONTRACTOR CERTIFICATION PROGRAMS MAY REQUIRE THAT CONTRACTORS GIVE PRIOR NOTIFICATION OF THEIR INTENT TO DEVIATE FROM THE GMS FOR RESEARCH OR OTHER PURPOSES.
3. THE GMS IS NOT INTENDED TO BE USED AS A DESIGN MANUAL, AND COMPLIANCE WITH ITS PROVISIONS WILL NOT GUARANTEE REDUCTION OF INDOOR GAS CONCENTRATIONS TO ANY SPECIFIC LEVEL.
4. BECAUSE OF THE WIDE VARIATION IN BUILDING DESIGN, SIZE, OPERATION AND USE, THE GMS DOES NOT INCLUDE DETAILED GUIDANCE ON HOW TO SELECT THE MOST APPROPRIATE MITIGATION STRATEGY FOR A GIVEN BUILDING. THAT GUIDANCE IS PROVIDED IN THE DOCUMENTS REFERENCED IN IN THIS SPECIFICATION.
5. CONTRACTORS WHO EXPECT TO DEVIATE FROM PROVEN GAS MITIGATION TECHNOLOGIES AND METHODS FOR PURPOSES OF RESEARCH ON INNOVATIVE MITIGATION TECHNIQUES, SHALL OBTAIN PRIOR APPROVAL FROM STATE REGULATORY OFFICES, DOCUMENT THE NON-STANDARD TECHNIQUES, AND INFORM THE CLIENT OF THE DEVIATION FROM STANDARD PROCEDURES. IN CASES WHERE GAS MITIGATION IS NOT REGULATED BY THE STATE, CONTRACTORS SHALL OBTAIN PRIOR APPROVAL FROM A REGIONAL EPA OFFICE.

D. WORKER HEALTH AND SAFETY

1. CONTRACTORS SHALL COMPLY WITH ALL OSHA, STATE AND LOCAL STANDARDS OR REGULATIONS RELATING TO WORKER SAFETY AND OCCUPATIONAL GAS EXPOSURE. APPLICABLE REFERENCES IN THE CODE OF FEDERAL REGULATIONS AND NIOSH PUBLICATIONS.
2. IN ADDITION TO THE OSHA AND NIOSH STANDARDS, THE FOLLOWING REQUIREMENTS THAT ARE SPECIFICALLY OR UNIQUELY APPLICABLE FOR THE SAFETY AND PROTECTION OF GAS MITIGATION WORKERS SHALL BE MET:
   a. THE CONTRACTOR SHALL ADVISE WORKERS OF THE HAZARDS OF EXPOSURE TO GAS AND THE NEED TO APPLY PROTECTIVE MEASURES WHEN WORKING IN AREAS OF ELEVATED GAS CONCENTRATIONS.
   b. THE CONTRACTOR SHALL HAVE A WORKER PROTECTION PLAN ON FILE THAT IS AVAILABLE TO ALL EMPLOYEES AND IS APPROVED BY ANY STATE OR LOCAL REGULATING AGENCIES THAT REQUIRE SUCH A PLAN. EXCEPTION: A WORKER PROTECTION PLAN IS NOT REQUIRED FOR A CONTRACTOR WHO IS A SOLE PROPRIETOR UNLESS REQUIRED BY STATE OR LOCAL REGULATIONS.
   c. THE CONTRACTOR SHALL ENSURE THAT APPROPRIATE SAFETY EQUIPMENT SUCH AS HARD HATS, FACE SHIELDS, EAR PLUGS, STEEL-TOE BOOTS AND PROTECTIVE GLOVES ARE AVAILABLE ON THE JOB SITE DURING CUTTING, DRILLING, GRINDING, POLISHING, DEMOLISHING OR OTHER ACTIVITY ASSOCIATED WITH GAS MITIGATION PROJECTS.
   d. ALL ELECTRICAL EQUIPMENT USED DURING GAS MITIGATION PROJECTS SHALL BE PROPERLY GROUNDED. CIRCUITS USED AS A POWER SOURCE SHOULD BE PROTECTED BY GROUND-FAULT CIRCUIT INTERRUPTERS (GFCI).
   e. WHEN WORK IS REQUIRED AT ELEVATIONS ABOVE THE GROUND OR FLOOR, THE CONTRACTOR SHALL ENSURE THAT LADDERS OR SCAFFOLDING ARE SAFELY INSTALLED AND OPERATED.
   f. WORK AREAS SHALL BE VENTILATED TO REDUCE WORKER EXPOSURE TO GAS DECAY PRODUCTS, DUST, OR OTHER AIRBORNE POLLUTANTS. IN WORK AREAS WHERE VENTILATION IS IMPRACTICAL OR WHERE VENTILATION CANNOT REDUCE GAS LEVELS TO LESS THAN 0.3 WL (BASED ON A SHORT TERM DIAGNOSTIC TEST, E.G., GRAB SAMPLE), THE CONTRACTOR SHALL ENSURE THAT RESPIRATORY PROTECTION CONFOGMS WITH THE REQUIREMENTS IN THE NIOSH GUIDE TO INDUSTRIAL RESPIRATORY PROTECTION. ((NOTE: IF UNABLE TO MAKE WORKING LEVEL MEASUREMENTS, A GAS LEVEL OF 30 PCI/L SHALL BE USED.)
   g. WHERE COMBUSTIBLE MATERIALS EXIST IN THE SPECIFIC AREA OF THE BUILDING WHERE GAS MITIGATION WORK IS TO BE CONDUCTED AND THE CONTRACTOR IS CREATING ANY TEMPERATURES HIGH ENOUGH TO INDUCE A FLAME, THE CONTRACTOR SHALL ENSURE THAT FIRE EXTINGUISHERS SUITABLE FOR TYPE A, B, AND C FIRES ARE AVAILABLE IN THE IMMEDIATE WORK AREA.
   h. PENDING DEVELOPMENT OF AN APPROVED PERSONAL GAS EXPOSURE DEVICE AND A PROTOCOL FOR ITS USE, CONTRACTORS SHALL RECORD EMPLOYEE EXPOSURE TO GAS AT EACH WORK SITE, BASED ON:
      1) THE HIGHEST PRE-MITIGATION INDOOR GAS OR WORKING LEVEL MEASUREMENT AVAILABLE, AND
      2) THE TIME EMPLOYEES ARE EXPOSED (WITHOUT RESPIRATOR PROTECTION) AT THAT LEVEL

      (NOTE: THIS APPROACH IS NOT INTENDED TO PRECLUDE THE ALTERNATIVE USE OF ON-SITE GAS OR GAS DECAY PRODUCT MEASUREMENTS TO DETERMINE EXACT EXPOSURE.) CONSISTENT WITH OSHA PERMISSIBLE EXPOSURE LIMITS, CONTRACTORS SHALL ENSURE THAT EMPLOYEES ARE EXPOSED TO NO MORE THAN 4 WORKING LEVEL MONTHS (WLM) OVER A 12 MONTH PERIOD. (AN EQUILIBRIUM RATIO OF 50 PERCENT SHALL BE USED TO CONVERT GAS EXPOSURE TO WLM.)
   i. WHEN MITIGATION WORK REQUIRES THE USE OF SEALANTS, ADHESIVES, PAINTS, OR OTHER SUBSTANCES THAT MAY BE HAZARDOUS TO HEALTH, CONTRACTORS SHALL PROVIDE EMPLOYEES WITH THE APPLICABLE MATERIAL SAFETY DATA SHEETS (MSDS) AND EXPLAIN THE REQUIRED SAFETY PROCEDURES.

E. SYSTEMS REQUIREMENT

1. ALL GAS MITIGATION SYSTEMS SHALL BE INSTALLED AS PERMANENT, INTEGRAL ADDITIONS TO THE BUILDING, EXCEPT WHERE A TEMPORARY SYSTEM HAS BEEN INSTALLED.
2. ALL GAS MITIGATION SYSTEMS SHALL BE INSTALLED TO AVOID THE CREATION OF OTHER HEALTH, SAFETY, OR ENVIRONMENTAL HAZARDS TO BUILDING OCCUPANTS, SUCH AS BACKDRAFTING OF NATURAL DRAFT COMBUSTION APPLIANCES.
3. ALL GAS MITIGATION SYSTEMS SHALL MAXIMIZE GAS REDUCTION AND IN CONSIDERATION OF THE NEED TO MINIMIZE EXCESS ENERGY USAGE, TO AVOID COMPROMISING MOISTURE AND TEMPERATURE CONTROLS AND OTHER COMFORT FEATURES, AND TO MINIMIZE NOISE.
4. ALL GAS MITIGATION SYSTEMS AND THEIR COMPONENTS SHALL COMPLY WITH THE LAWS, ORDINANCES, CODES, AND REGULATIONS OF RELEVANT JURISDICTIONAL AUTHORITIES, INCLUDING APPLICABLE MECHANICAL, ELECTRICAL, BUILDING, PLUMBING, ENERGY, AND FIRE PREVENTION CODES.

F. SYSTEMS INSTALLATION

1. GENERAL REQUIREMENTS
   a. ALL COMPONENTS OF GAS MITIGATION SYSTEMS INSTALLED IN COMPLIANCE WITH PROVISIONS OF THE GMS SHALL ALSO BE IN COMPLIANCE WITH THE APPLICABLE MECHANICAL, ELECTRICAL, BUILDING, PLUMBING, ENERGY AND FIRE PREVENTION CODES, STANDARDS, AND REGULATIONS OF THE LOCAL JURISDICTION.
   b. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED LICENSES AND PERMITS, AND DISPLAY THEM IN THE WORK AREAS AS REQUIRED BY LOCAL ORDINANCES.
   c. WHERE PORTIONS OF STRUCTURAL FRAMING MATERIAL MUST BE REMOVED TO ACCOMMODATE GAS VENT PIPES, MATERIAL REMOVED SHALL BE NO GREATER THAN THAT PERMITTED FOR PLUMBING INSTALLATIONS BY APPLICABLE BUILDING OR PLUMBING CODES.
   d. WHERE INSTALLATION OF A GAS MITIGATION SYSTEM REQUIRES PIPES OR DUCTS TO PENETRATE A FIREWALL OR OTHER FIRE RESISTANCE RATED WALL OR FLOOR, PENETRATIONS SHALL BE PROTECTED IN ACCORDANCE WITH APPLICABLE BUILDING, MECHANICAL, FIRE, AND ELECTRICAL CODES.
2. GAS VENT PIPE INSTALLATION REQUIREMENTS
   a. ALL JOINTS AND CONNECTIONS IN GAS MITIGATION SYSTEMS USING PLASTIC VENT PIPES SHALL BE PERMANENTLY SEALED WITH ADHESIVES AS SPECIFIED BY THE MANUFACTURER OF THE PIPE MATERIAL USED. JOINTS OR CONNECTIONS IN OTHER VENT PIPE MATERIALS SHALL BE MADE AIR TIGHT.
   b. ATTIC AND EXTERNAL PIPING RUNS IN AREAS SUBJECT TO SUBFREEZING CONDITIONS SHOULD BE PROTECTED TO AVOID THE RISK OF VENT PIPE FREEZE-UP.
   c. GAS VENT PIPES SHALL BE FASTENED TO THE STRUCTURE OF THE BUILDING WITH HANGERS, STRAPPING, OR OTHER SUPPORTS THAT WILL ADEQUATELY SECURE THE VENT MATERIAL. EXISTING PLUMBING PIPES, DUCTS, OR MECHANICAL EQUIPMENT SHALL NOT BE USED TO SUPPORT OR SECURE A GAS VENT PIPE.
   d. SUPPORTS FOR GAS VENT PIPES SHALL BE INSTALLED AT LEAST EVERY 6 FEET ON HORIZONTAL RUNS. VERTICAL RUNS SHALL BE SECURED EITHER ABOVE OR BELOW THE POINTS OF PENETRATION THRU FLOORS, CEILINGS, AND ROOFS, OR AT LEAST EVERY 8 FEET ON RUNS THAT DO NOT PENETRATE FLOORS, CEILINGS, OR ROOFS.
   e. TO PREVENT BLOCKAGE OF AIR FLOW INTO THE BOTTOM OF GAS VENT PIPES, THESE PIPES SHALL BE SUPPORTED OR SECURED IN A PERMANENT MANNER THAT PREVENTS THEIR DOWNWARD MOVEMENT TO THE BOTTOM OF SUCTION PITS OR SUMP PITS, OR INTO THE SOIL BENEATH AN AGGREGATE LAYER UNDER A SLAB.
   f. GAS VENT PIPES SHALL BE INSTALLED IN A CONFIGURATION THAT ENSURES THAT ANY RAIN WATER OR CONDENSATION WITHIN THE PIPES DRAINS DOWNWARD INTO THE GROUND BENEATH THE SLAB OR SOIL-GAS RETARDER MEMBRANE.
   g. GAS VENT PIPES SHALL NOT BLOCK ACCESS TO ANY AREAS REQUIRING MAINTENANCE OR INSPECTION. GAS VENTS SHALL NOT BE INSTALLED IN FRONT OF OR INTERFERE WITH ANY LIGHT, OPENING, DOOR, WINDOW OR EQUIPMENT ACCESS AREA REQUIRED BY CODE. IF GAS VENT PIPES ARE INSTALLED IN SUMP PITS, THE SYSTEM SHALL BE DESIGNED WITH REMOVABLE OR FLEXIBLE COUPLINGS TO FACILITATE REMOVAL OF THE SUMP PIT COVER FOR SUMP PUMP MAINTENANCE.
3. GAS VENT FAN INSTALLATION REQUIREMENTS
   a. VENT FANS USED IN GAS MITIGATION SYSTEMS SHALL BE SEALED TO REDUCE THE POTENTIAL FOR LEAKAGE OF SOIL GAS FROM THE FAN HOUSING.
   b. GAS VENT FANS SHALL BE SIZED TO PROVIDE THE PRESSURE DIFFERENCE AND AIR FLOW CHARACTERISTICS NECESSARY TO ACHIEVE THE GAS REDUCTION GOALS ESTABLISHED FOR THE SPECIFIC MITIGATION PROJECT
   c. GAS VENT FANS USED IN ACTIVE SOIL DEPRESSURIZATION OR BLOCK WALL DEPRESSURIZATION SYSTEMS SHALL NOT BE INSTALLED BELOW GROUND NOR IN THE CONDITIONED (HEATED/COOLED) SPACE OF A BUILDING, NOR IN ANY BASEMENT, CRAWLSPACE, OR OTHER INTERIOR LOCATION DIRECTLY BENEATH THE CONDITIONED SPACES OF A BUILDING. ACCEPTABLE LOCATIONS FOR GAS VENT FANS INCLUDE ATTICS NOT SUITABLE FOR OCCUPANCY (INCLUDING ATTICS OVER OCCUPIED) OR ON THE EXTERIOR OF THE BUILDING.
   d. GAS VENT FANS SHALL BE INSTALLED IN A CONFIGURATION THAT AVOIDS CONDENSATION BUILDUP IN THE FAN HOUSING. WHENEVER POSSIBLE, FANS SHOULD BE INSTALLED IN VERTICAL RUNS OF THE VENT PIPE.
   e. GAS VENT FANS MOUNTED ON THE EXTERIOR OF BUILDINGS SHALL BE RATED FOR OUTDOOR USE OR INSTALLED IN A WATER TIGHT PROTECTIVE HOUSING.
   f. GAS VENT FANS SHALL BE MOUNTED AND SECURED IN A MANNER THAT MINIMIZES TRANSFER OF VIBRATION TO THE STRUCTURAL FRAMING OF THE BUILDING.
   g. TO FACILITATE MAINTENANCE AND FUTURE REPLACEMENT, GAS VENT FANS SHALL BE INSTALLED IN THE VENT PIPE USING REMOVABLE COUPLINGS OR FLEXIBLE CONNECTIONS THAT CAN BE TIGHTLY SECURED TO BOTH THE FAN AND THE VENT PIPE.
5. SEALING REQUIREMENTS
   a. SUMP PITS THAT PERMIT ENTRY OF SOIL-GAS OR THAT WOULD ALLOW CONDITIONED AIR TO BE DRAWN INTO A SUB-SLAB DEPRESSURIZATION SYSTEM SHALL BE COVERED AND SEALED. THE COVERS ON SUMPS THAT PREVIOUSLY PROVIDED PROTECTION OR RELIEF FROM SURFACE WATER COLLECTION SHALL BE FITTED WITH A WATER OR MECHANICALLY TRAPPED DRAIN. WATER TRAPS SHOULD BE FITTED WITH AN AUTOMATIC SUPPLY OF PRIMING WATER.
   b. OPENINGS AROUND GAS VENT PIPE PENETRATIONS OF THE SLAB, THE FOUNDATION WALLS, OR THE CRAWLSPACE SOIL-GAS RETARDER MEMBRANE SHALL BE CLEANED, PREPARED, AND SEALED IN A PERMANENT, AIR-TIGHT MANNER USING COMPATIBLE CAULKS OR OTHER SEALANT MATERIALS. OPENINGS AROUND OTHER UTILITY PENETRATIONS OF THE SLAB, WALLS, OR SOIL-GAS RETARDER SHALL ALSO BE SEALED.
   c. OPENINGS, PERIMETER CHANNEL DRAINS, OR CRACKS THAT EXIST WHERE THE SLAB MEETS THE FOUNDATION WALL (FLOOR-WALL JOINT), SHALL BE SEALED WITH URETHANE CAULK OR EQUIVALENT MATERIAL. WHEN THE OPENING OR CHANNEL IS GREATER THAN 1/2 INCH IN WIDTH, A FOAM BACKER ROD OR OTHER COMPARABLE FILLER MATERIAL SHALL BE INSERTED IN THE CHANNEL BEFORE APPLICATION OF THE SEALANT. THIS SEALING TECHNIQUE SHALL BE DONE IN A MANNER THAT RETAINS THE CHANNEL FEATURE AS A WATER CONTROL SYSTEM. OTHER OPENINGS OR CRACKS IN SLABS OR AT EXPANSION OR CONTROL JOINTS SHOULD ALSO BE SEALED. OPENINGS OR CRACKS THAT ARE DETERMINED TO BE INACCESSIBLE OR BEYOND THE ABILITY OF THE CONTRACTOR TO SEAL SHALL BE DISCLOSED TO THE CLIENT AND INCLUDED IN THE DOCUMENTATION.
   d. WHEN INSTALLING BASEBOARD-TYPE SUCTION SYSTEMS, ALL SEAMS AND JOINTS IN THE BASEBOARD MATERIAL SHALL BE JOINED AND SEALED USING MATERIALS RECOMMENDED BY THE MANUFACTURER OF THE BASEBOARD SYSTEM. BASEBOARDS SHALL BE SECURED TO WALLS AND FLOORS WITH ADHESIVES DESIGNED AND RECOMMENDED FOR SUCH INSTALLATIONS. IF A BASEBOARD SYSTEM IS INSTALLED ON A BLOCK WALL FOUNDATION, THE TOPS OF THE BLOCKWALL SHALL BE CLOSED AND SEALED.

G. ELECTRICAL REQUIREMENTS

1. WIRING FOR ALL ACTIVE GAS MITIGATION SYSTEMS SHALL CONFORM TO PROVISIONS OF THE NATIONAL ELECTRIC CODE AND ANY ADDITIONAL LOCAL REGULATIONS.
2. WIRING MAY NOT BE LOCATED IN OR CHASED THRU THE MITIGATION INSTALLATION DUCTING OR ANY OTHER HEATING OR COOLING DUCTWORK.
3. GAS MITIGATION FANS INSTALLED ON THE EXTERIOR OF BUILDINGS SHALL BE HARD-WIRED INTO AN ELECTRICAL CIRCUIT. PLUGGED FANS SHALL NOT BE USED OUTDOORS.
4. IF THE RATED ELECTRICITY REQUIREMENTS OF A GAS MITIGATION SYSTEM FAN EXCEEDS 50 PERCENT OF THE CIRCUIT CAPACITY INTO WHICH IT WILL BE CONNECTED, OR IF THE TOTAL CONNECTED LOAD ON THE CIRCUIT (INCLUDING THE GAS VENT FAN) EXCEEDS 80 PERCENT OF THE CIRCUIT'S RATED CAPACITY, A SEPARATE, DEDICATED CIRCUIT SHALL BE INSTALLED TO POWER THE FAN.
5. AN ELECTRICAL DISCONNECT SWITCH OR CIRCUIT BREAKER SHALL BE INSTALLED IN GAS MITIGATION SYSTEM FAN CIRCUITS TO PERMIT DEACTIVATION OF THE FAN FOR MAINTENANCE OR REPAIR BY THE BUILDING OWNER OR SERVICING CONTRACTOR (DISCONNECT SWITCHES ARE NOT REQUIRED WITH PLUGGED FANS).

H. MATERIALS

1. ALL MITIGATION SYSTEM ELECTRICAL COMPONENTS SHALL BE U.L. LISTED OR OF EQUIVALENT SPECIFICATIONS.
2. AS A MINIMUM, ALL PLASTIC VENT PIPES IN MITIGATION SYSTEMS SHALL BE MADE OF SCHEDULE 80 PVC OR EQUIVALENT PIPING MATERIAL.
3. VENT PIPE FITTINGS IN A MITIGATION SYSTEM SHALL BE OF THE SAME MATERIAL AS THE VENT PIPES.
4. CLEANING SOLVENTS AND ADHESIVES USED TO JOIN PLASTIC PIPES AND FITTINGS SHALL BE AS RECOMMENDED BY MANUFACTURERS FOR USE WITH THE TYPE OF PIPE MATERIAL USED IN THE MITIGATION SYSTEM.
5. WHEN SEALING CRACKS IN SLABS AND OTHER SMALL OPENINGS AROUND PENETRATIONS OF THE SLAB AND FOUNDATION WALLS, CAULKS AND SEALANTS DESIGNED FOR SUCH APPLICATION SHALL BE USED. URETHANE SEALANTS ARE RECOMMENDED BECAUSE OF THEIR DURABILITY.
6. WHEN SEALING HOLES FOR PLUMBING ROUGH-IN OR OTHER LARGE OPENINGS IN SLABS AND FOUNDATION WALLS THAT ARE BELOW THE GROUND SURFACE, NON-SHRINK MORTAR, GROUTS, EXPANDING FOAM, OR SIMILAR MATERIALS DESIGNED FOR SUCH APPLICATION SHALL BE USED.

I. MONITORS AND LABELING

1. ALL ACTIVE SOIL DEPRESSURIZATION AND BLOCK WALL DEPRESSURIZATION GAS MITIGATION SYSTEMS SHALL INCLUDE A MECHANISM TO MONITOR SYSTEM PERFORMANCE AND WARN OF SYSTEM FAILURE. THE MECHANISM SHALL BE SIMPLE TO READ OR INTERPRET AND BE LOCATED WHERE IT IS EASILY SEEN OR HEARD BY BUILDING OCCUPANTS AND PROTECTED FROM DAMAGE OR DESTRUCTION.
2. ELECTRICAL GAS MITIGATION SYSTEM MONITORS (WHETHER VISUAL OR AUDIBLE) SHALL BE INSTALLED ON NON-SWITCHED CIRCUITS AND BE DESIGNED TO RESET AUTOMATICALLY WHEN POWER IS RESTORED AFTER SERVICE OR POWER SUPPLY FAILURE. BATTERY OPERATED MONITORING DEVICES SHALL NOT BE USED UNLESS THEY ARE EQUIPPED WITH A LOW POWER WARNING FEATURE.
3. MECHANICAL GAS MITIGATION SYSTEM MONITORS, SUCH AS MANOMETER TYPE PRESSURE GAUGES, SHALL BE CLEARLY MARKED TO INDICATE THE RANGE OR ZONE OF PRESSURE READINGS THAT EXISTED WHEN THE SYSTEM WAS INITIALLY ACTIVATED.
4. A SYSTEM DESCRIPTION LABEL SHALL BE PLACED ON THE MITIGATION SYSTEM, THE ELECTRIC SERVICE ENTRANCE PANEL, OR OTHER PROMINENT LOCATION. THIS LABEL SHALL BE LEGIBLE FROM A DISTANCE OF AT LEAST THREE FEET AND INCLUDE THE FOLLOWING INFORMATION: "GAS REDUCTION SYSTEM," THE INSTALLER'S NAME, PHONE NUMBER, AND RCP IDENTIFICATION NUMBER, THE DATE OF INSTALLATION, AND AN ADVISORY THAT THE BUILDING SHOULD BE TESTED FOR GAS AT LEAST EVERY TWO YEARS OR AS REQUIRED OR RECOMMENDED BY STATE OR LOCAL AGENCIES. IN ADDITION, ALL EXPOSED AND VISIBLE INTERIOR GAS MITIGATION SYSTEM VENT PIPE SECTIONS SHALL BE IDENTIFIED WITH AT LEAST ONE LABEL ON EACH FLOOR LEVEL. THE LABEL SHALL READ, "GAS REDUCTION SYSTEM."
5. THE CIRCUIT BREAKERS CONTROLLING THE CIRCUITS ON WHICH THE GAS VENT FAN AND SYSTEM FAILURE WARNING DEVICES OPERATE SHALL BE LABELED "GAS SYSTEM."

J. POST-MITIGATION TESTING

1. AFTER INSTALLATION OF AN ACTIVE GAS CONTROL SYSTEM (E.G., SSD), THE CONTRACTOR SHALL RE-EXAMINE AND VERIFY THE INTEGRITY OF THE FAN MOUNTING SEALS AND ALL JOINTS IN THE INTERIOR VENT PIPING.
2. AFTER INSTALLATION OF ANY ACTIVE GAS MITIGATION SYSTEM, THE CONTRACTOR SHALL PERFORM TESTS. SEE SPECIFICATION SECTION 072727 'SUBSLAB DEPRESSURIZATION SYSTEM' FOR ADDITIONAL INFORMATION.
3. IMMEDIATELY AFTER INSTALLATION AND ACTIVATION OF ANY ACTIVE (FAN-POWERED) SUB-SLAB DEPRESSURIZATION OR BLOCK WALL DEPRESSURIZATION SYSTEM IN BUILDINGS CONTAINING NATURAL DRAFT COMBUSTION APPLIANCES, THE BUILDING SHALL BE TESTED FOR BACKDRAFTING OF THOSE APPLIANCES. ANY BACKDRAFTING CONDITION THAT RESULTS FROM INSTALLATION OF THE GAS MITIGATION SYSTEM SHALL BE CORRECTED BEFORE THE SYSTEM IS PLACED IN OPERATION.
4. UPON COMPLETION OF GAS MITIGATION WORK, A TEST OF MITIGATION SYSTEM EFFECTIVENESS SHALL BE CONDUCTED. SEE SPECIFICATION SECTION 072726 'GAS VAPOR BARRIER (FLUID APPLIED) FOR ADDITIONAL INFORMATION.
5. TO ENSURE CONTINUED EFFECTIVENESS OF THE GAS MITIGATION SYSTEM(S) INSTALLED, THE CONTRACTOR SHALL ADVISE THE CLIENT TO RETEST THE BUILDING AT LEAST EVERY TWO YEARS OR AS REQUIRED OR RECOMMENDED BY STATE OR LOCAL AUTHORITY. RETESTING IS ALSO RECOMMENDED IF THE BUILDING UNDERGOES SIGNIFICANT ALTERATION.

K. CONTRACTS AND DOCUMENTATION

1. EPA RECOMMENDS THAT CONTRACTORS PROVIDE THE FOLLOWING WRITTEN INFORMATION TO CLIENTS PRIOR TO INITIATION OF WORK:
   a. THE CONTRACTOR'S EPA RPP MITIGATION SERVICE PROVIDER IDENTIFICATION NUMBER.
   b. A STATEMENT THAT DESCRIBES THE PLANNED SCOPE OF THE WORK AND THAT INCLUDES AN ESTIMATE OF THE TIME NEEDED TO COMPLETE THE WORK.
   c. A STATEMENT DESCRIBING ANY KNOWN HAZARDS ASSOCIATED WITH CHEMICALS USED IN OR AS PART OF THE INSTALLATION.
   d. A STATEMENT INDICATING COMPLIANCE WITH AND IMPLEMENTATION OF ALL EPA STANDARDS AND THOSE OF OTHER AGENCIES HAVING JURISDICTION (E.G., CODE REQUIREMENTS).
   e. A STATEMENT DESCRIBING ANY SYSTEM MAINTENANCE THAT THE BUILDING OWNER WOULD BE REQUIRED TO PERFORM.
   f. AN ESTIMATE OF THE INSTALLATION COST AND ANNUAL OPERATING COSTS OF THE SYSTEM.
   g. THE CONDITIONS OF ANY WARRANTY OR GUARANTEE.
2. EPA RECOMMENDS THAT RPP LISTED MITIGATION CONTRACTORS KEEP RECORDS OF ALL GAS MITIGATION WORK PERFORMED AND MAINTAIN THOSE RECORDS FOR 3 YEARS OR FOR THE PERIOD OF ANY WARRANTY OR GUARANTEE, WHICHEVER IS LONGER. THESE RECORDS SHOULD INCLUDE:
3. THE BUILDING INVESTIGATION SUMMARY AND FLOOR PLAN SKETCH.
4. PRE- AND POST-MITIGATION GAS TEST DATA.
5. PRE- AND POST-MITIGATION DIAGNOSTIC TEST DATA.
6. COPIES OF CONTRACTS AND WARRANTIES.
7. A NARRATIVE OR PICTORIAL DESCRIPTION OF MITIGATION SYSTEM(S) INSTALLED.
8. APPENDIX A CONTAINS A SUGGESTED STANDARD FORMAT FOR COMPILING MITIGATION PROJECT RECORDS.
9. OTHER RECORDS OR BOOKKEEPING REQUIRED BY LOCAL, STATE, OR FEDERAL STATUTES AND REGULATIONS SHALL BE MAINTAINED FOR THE PERIOD(S) PRESCRIBED BY THOSE REQUIREMENTS.
10. EPA RECOMMENDS THAT HEALTH AND SAFETY RECORDS, INCLUDING WORKER GAS EXPOSURE LOGS, BE MAINTAINED FOR A MINIMUM OF 20 YEARS.
11. UPON COMPLETION OF THE MITIGATION PROJECT, CONTRACTORS SHALL PROVIDE CLIENTS WITH AN INFORMATION PACKAGE THAT INCLUDES:
12. ANY BUILDING PERMITS REQUIRED BY LOCAL CODES.
13. COPIES OF THE BUILDING INVESTIGATION SUMMARY AND FLOOR PLAN SKETCH.
14. PRE-AND POST-MITIGATION GAS TEST DATA.
15. COPIES OF CONTRACTS AND WARRANTIES.
16. A DESCRIPTION OF THE MITIGATION SYSTEM INSTALLED AND ITS BASIC OPERATING PRINCIPLES.
17. A DESCRIPTION OF ANY DEVIATIONS FROM THE GMS OR STATE REQUIREMENTS.
18. A DESCRIPTION OF THE PROPER OPERATING PROCEDURES OF ANY MECHANICAL OR ELECTRICAL SYSTEMS INSTALLED, INCLUDING MANUFACTURER'S OPERATION AND MAINTENANCE INSTRUCTIONS AND WARRANTIES.
19. A LIST OF APPROPRIATE ACTIONS FOR CLIENTS TO TAKE IF THE SYSTEM FAILURE WARNING DEVICE INDICATES SYSTEM DEGRADATION OR FAILURE.
20. THE NAME, TELEPHONE NUMBER, AND EPA RPP MITIGATION SERVICE PROVIDER IDENTIFICATION NUMBER OF THE CONTRACTOR, AND THE PHONE NUMBER OF THE STATE GAS OFFICE.

THE ACCEPTANCE TESTING SHALL BE AS FOLLOWS:

1. THE EXPLOSIVE GAS MONITORING SYSTEM CONTRACTOR SHALL COMPLETE ACCEPTANCE TESTING TO DEMONSTRATE THAT THE ENTIRE SYSTEMS FUNCTIONS AS DESIGNED. TESTING SHALL INCLUDE:
   A. TESTING EACH FUNCTION OF THE INTEGRATED CONTROLS AT THE CONTROLLER.
   B. CONFIRMATION OF THE CALIBRATIONS OF ALL SENSORS.
   C. TESTING OF ALL COMMUNICATIONS BETWEEN SENSORS AND CONTROLLERS AND BETWEEN THE CONTROLLER AND ALARMS AND AUTO DIALER.
   D. TESTING OF ALL ALARM FUNCTIONS OF ALL SENSORS (ABILITY TO DETECT EXPLOSIVE GAS CONCENTRATIONS) AND OTHER TROUBLE ALARM/DIAGNOSTIC CONDITIONS.
   E. THE CONTRACTOR SHALL CORRECT ALL DEFICIENCIES AND REPEAT THE TESTING FOR ANY ITEMS THAT FAIL INITIAL TESTING. OWNER SHALL NOT ACCEPT THE SYSTEM UNTIL ALL COMPONENTS AND THE ENTIRE COORDINATED SYSTEM HAVE BEEN DEMONSTRATED TO BE OPERATING AS DESIGNED.

FAN SCHEDULE

SF X

PLAN NO	MANUFACTURER MODEL	LOCATION	AREA SERVED	FAN TYPE	FAN PERFORMANCE			ELECTRICAL DATA				dBA	WEIGHT LBS	REMARKS
					CFM	TOTAL SP	FAN RPM	HP/ WATTS	RPM	VOLTS/Ø	DRIVE			
SF-1	FAN AM CAV-100	MEZZ	AS SHOWN	CENT	175	2.38	3450	1/2	3450	115/1	DIRECT	65	48	SEE NOTES
SF-2	FAN AM CAV-100	MEZZ	AS SHOWN	CENT	130	1.40	3450	1/2	3450	115/1	DIRECT	55	45	SEE NOTES

NOTES:
1. PROVIDE ELECTRICAL DISCONNECT, VIBRATION ISOLATION WITH MOUNTING BRACKETS.
2. PROVIDE CONTROLS FROM ATC CONTRACTOR.

FOR CONSTRUCTION

NEW YORK ALTERATION WARNING

IT IS A VIOLATION OF NEW YORK PROFESSIONAL ENGINEER & LAND SURVEY LAWS SECTION 7209.2 FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM IN AN

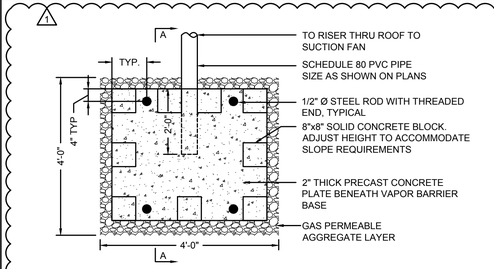

PLAN VIEW - TYPICAL SUB-SLAB DEPRESSURIZATION PIT — 1A
NOT TO SCALE

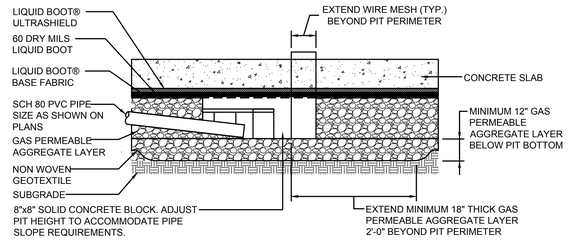

TYPICAL SUB-SLAB DEPRESSURIZATION PIT - SECTION A-A — 1B
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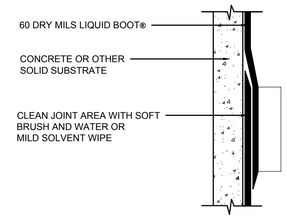

GAS VAPOR BARRIER MEMBRANE LAP JOINTS ON SOLID SUBSTRATE — 2A
NOT TO SCALE

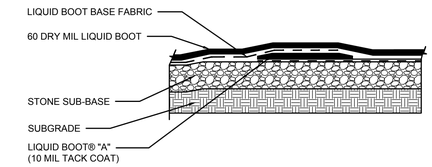

GAS VAPOR BARRIER MEMBRANE LAP JOINTS ON SOLID SUBSTRATE — 2B
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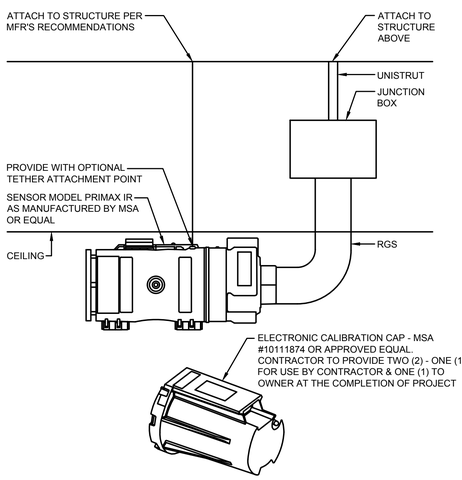

GAS SENSOR DETAIL — 3
NOT TO SCALE

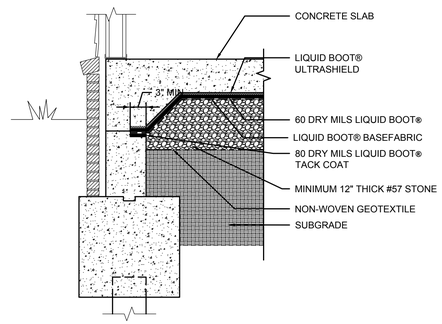

GAS VAPOR BARRIER AT EXTERIOR WALL DETAIL — 4
NOT TO SCALE

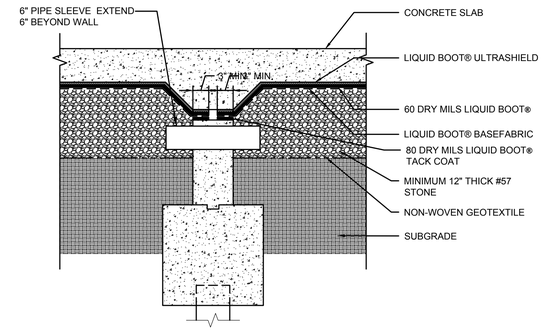

GAS VAPOR BARRIER AT INTERIOR WALL DETAIL — 5
NOT TO SCALE

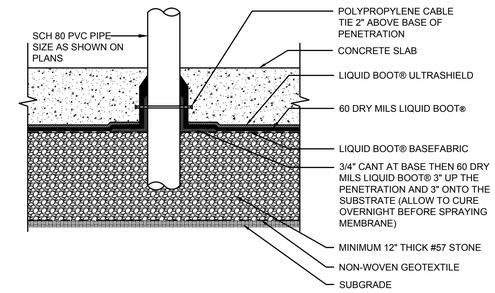

TYPICAL GAS VAPOR BARRIER PENETRATION DETAIL WITHOUT SLEEVE — 6
NOT TO SCALE

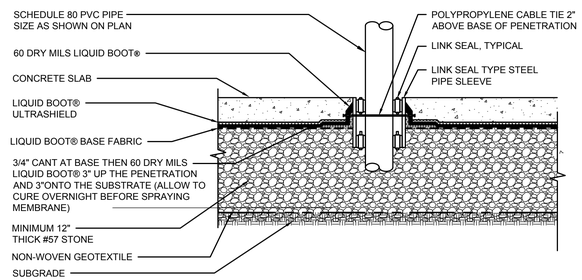

TYPICAL GAS VAPOR BARRIER PENETRATION DETAIL — 7
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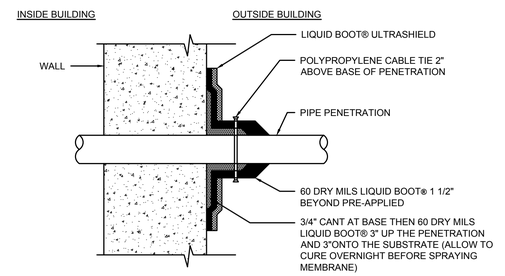

TYPICAL GAS VAPOR BARRIER PENETRATION THRU WALL BELOW GRADE DETAIL WITHOUT SLEEVE — 8A
NOT TO SCALE

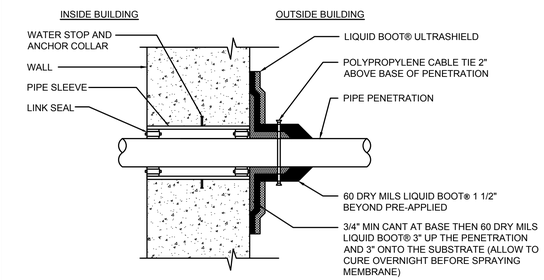

TYPICAL GAS VAPOR BARRIER PENETRATION THRU WALL BELOW GRADE DETAIL WITH SLEEVE — 8B
NOT TO SCALE

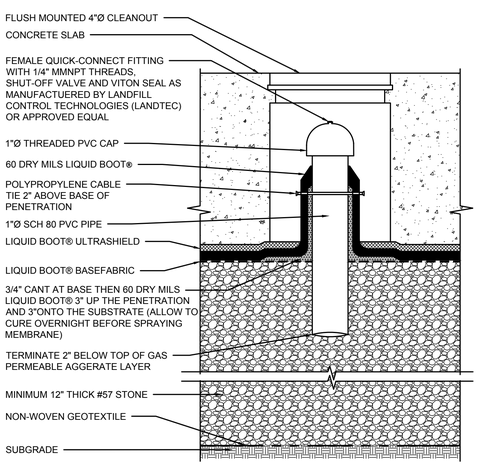

SUB-SLAB MONITORING POINT DETAIL — 9
NOT TO SCALE

NOTES:
1. CONTRACTOR TO SUPPLY SHOP DRAWINGS OF PROPOSED CONSTRUCTION DETAILS FOR APPROVAL. ALL PENETRATIONS SHALL BE CLEANED PER SPECIFICATIONS BEFORE LIQUID BOOT IS APPLIED.
2. CONTRACTOR SHALL SUBMIT TO SCALE SKETCHES SHOWING PROPOSED PIPE JOINT LOCATIONS. ENGINEERS APPROVAL OF PIPE JOINT LOCATIONS SHALL BE REQUIRED PRIOR TO CONSTRUCTION.
3. FURNISH ESCUTCHEONS AS SPECIFIED.

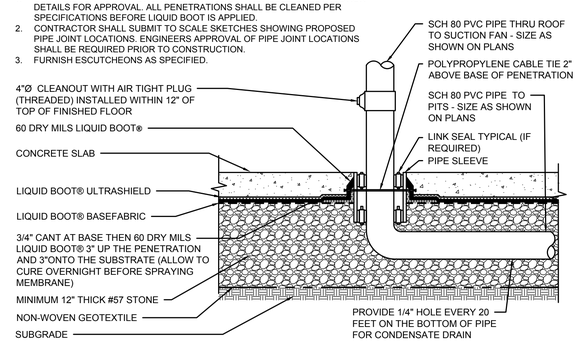

TYPICAL SSDS RISER DETAIL AT FLOOR SLAB — 10
NOT TO SCALE

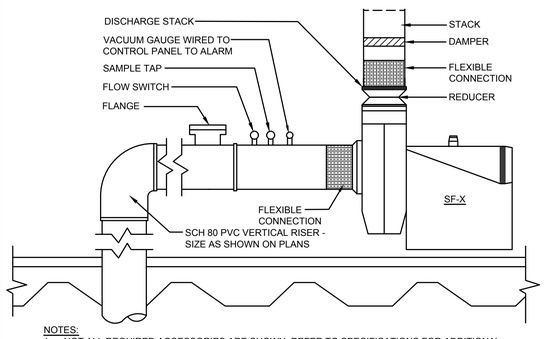

NOTES:
1. NOT ALL REQUIRED ACCESSORIES ARE SHOWN. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. ELECTRICAL WIRING & EQUIPMENT NOT SHOW. REFER TO ELECTRICAL DWGS AND SPECIFICATIONS FOR REQUIREMENTS.
3. PIPE AND EQUIPMENT ARRANGEMENT SHOW FOR SCHEMATIC PURPOSES ONLY. SUBMIT TO SCALE DRAWINGS SHOWING PROPOSED ARRANGEMENT. CONTRACTOR IS REQUIRED TO OBTAIN ENGINEER REVIEW OF ARRANGEMENT.
4. THE SUCTION FAN EXHAUST MUST BE A MINIMUM OF 10 FEET FROM ANY BUILDING INTAKE OR OPERABLE WINDOW.

SUCTION FAN DETAIL — 11
NOT TO SCALE

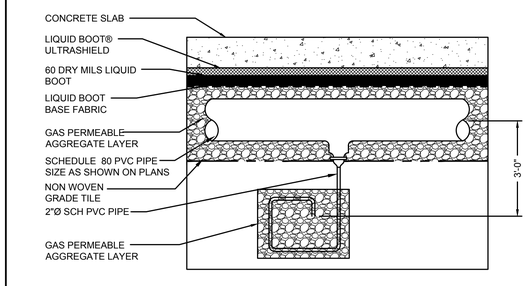

TYPICAL LOW POINT CONDENSATE DRAIN DETAIL — 12
NOT TO SCALE

FOR CONSTRUCTION

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DRAWING TITLE: VAPOR REMEDIATION DETAILS

PROJECT #: 14-534
DRAWN BY:
CHECKED BY: FRM
DRAWING NO: FO-504.00

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STATE OF NEW YORK
DONALD F. BOWMAN
NO. 095674
LICENSED PROFESSIONAL ENGINEER

Donald Bowman
6/7/2018

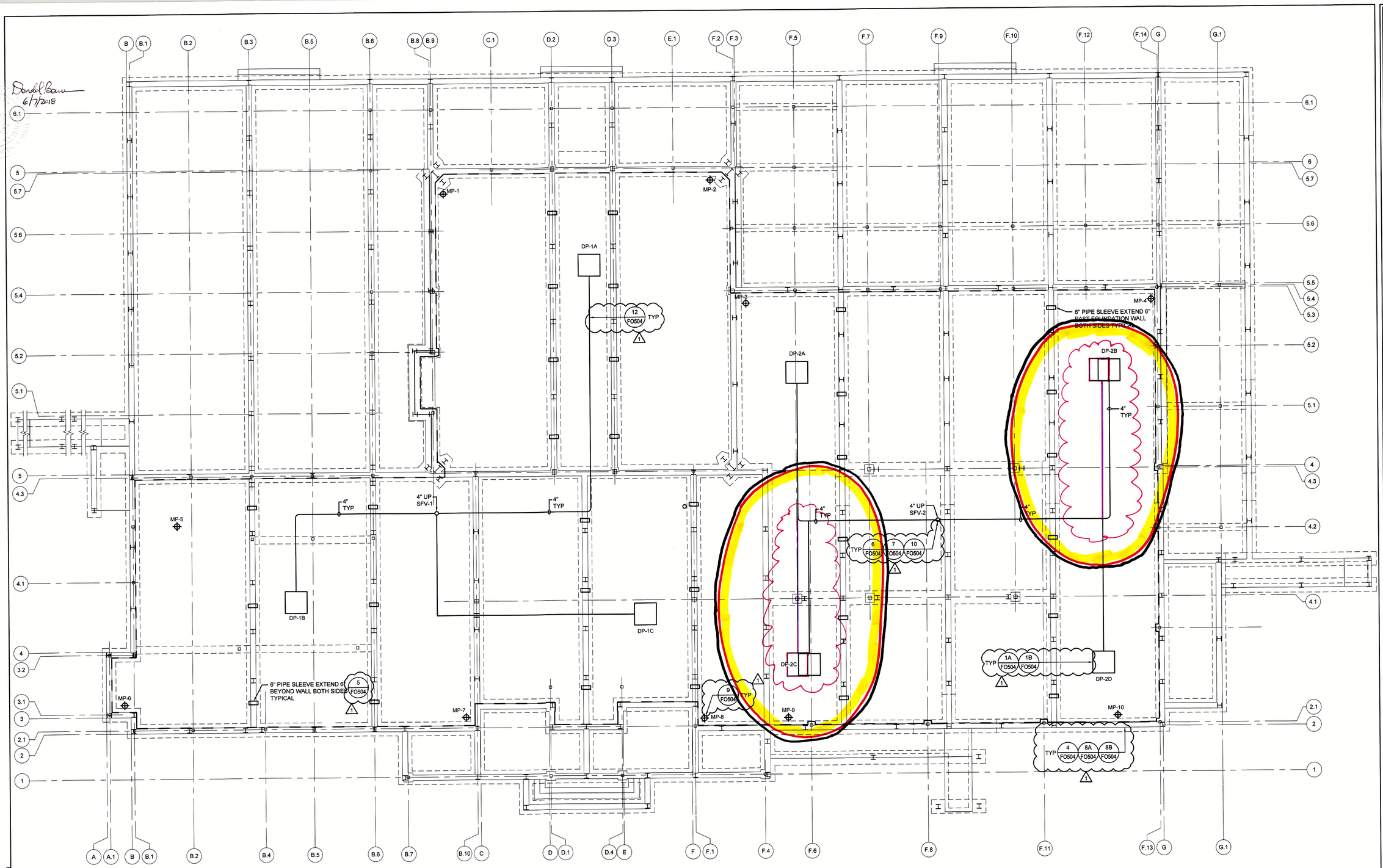

UNDERSLAB PLAN

SCALE: 1/8" = 1'-0"

NOTES :

1. DRAWINGS NOT TO BE USED FOR STRUCTURAL, ARCHITECTURAL OR OTHER REFERENCE EXCEPT FOR SUB-SLAB DEPRESSURIZATION SYSTEM.
2. THE EXTENTS OF BUILDING CONSTRUCTION BENEATH THE FLOOR SLABS SHALL BE LINED WITH GAS VAPOR BARRIER, AS PART OF BUILDING CONSTRUCTION. THE GAS VAPOR BARRIER SHALL ALSO BE APPLIED VERTICALLY TO BELOW GRADE WALLS AND WALLS OF PITS AND SUMPS AS SHOWN AND SPECIFIED.
3. SLOPE HORIZONTAL PIPE UNIFORMLY A MINIMUM OF 1% TOWARD SUB-SLAB DEPRESSION SYSTEM PITS OR TO CONDENSATE DRAINS WHEN PIPING CANNOT BE SLOPED TO PIT.
4. SECURE VERTICAL RISER TO WALL IN ACCORDANCE WITH ARCHITECTURAL AND PLUMBING REQUIREMENTS.
5. ELECTRICAL WIRING AND EQUIPMENT NOT SHOWN. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR REFERENCES.
6. SEAL ALL JOINTS IN SLAB ON GRADE, INCLUDING BUT NOT LIMITED TO, CONTROL JOINTS, EXPANSION JOINTS, CRACKS, WALL JOINTS, PENETRATIONS ETC. WITH NON-CRACKING CAULK. POLYURETHANE TYPE PREFERRED.
7. COORDINATE GAS VENTING SYSTEM WITH ALL TRADES, INCLUDE VENTING SYSTEM PIPING ON COORDINATION DRAWINGS.
8. ALL GAS VENTS SHALL BE CONTINUOUS FROM UNDERSLAB STONE BASE TO 36" ABOVE ROOF LINE OR PARAPET (WHICHEVER IS HIGHER). ALL VENTS SHALL BE 10'-0" MIN FROM LOT LINES, OUTSIDE AIR INTAKES, WINDOWS, ETC.
9. DRAWING ILLUSTRATES WALLS AND ALL SLAB ON GRADE FLOOR AREAS. COORDINATE THIS WORK WITH ARCHITECTURAL, MECHANICAL, AND STRUCTURAL PLANS.
10. ALL GAS VENT PIPING SHALL BE PVC PIPING. WHERE PIPING IS LOCATED IN RETURN AIR PLENUMS CHANGE MATERIAL TO NO-HUB CAST IRON PIPE.
11. LABEL GAS PIPING AT INTERVALS OF NOT MORE THAN 25 FT IN CONCEALED LOCATIONS AND NOT MORE THAN 50 FT ON EXPOSED AND NOT LESS THAN ONCE IN ANY ROOM OR SPACE.
12. GAS VAPOR BARRIER TO BE INSTALLED IMMEDIATELY BELOW FLOOR SLAB AS INDICATED ON THE STRUCTURAL DRAWINGS. PROVIDE 12" MINIMUM CLEAN #57 STONE SUB-BASE FOR GAS MITIGATION SYSTEM.
13. SLOPE HORIZONTAL PIPE A MINIMUM OF 1% UNIFORMLY TOWARD SUCTION PITS.
14. REFER TO SPECIFICATION FOR ADDITIONAL SUB-SLAB DEPRESSURIZATION SYSTEM AND ACCESSORIES REQUIREMENTS.

LEGEND

- EXTENT OF GAS PERMEABLE AGGREGATE LAYER BENEATH FLOOR SLAB
- 4" SCHEDULE 80 PVC PIPE
- SFV-1 — SUCTION FAN VERTICAL 4" RISER AND IDENTIFICATION NUMBER. EXTEND THRU ATTIC TO SUCTION FAN
- MP-1 — SUB-SLAB MONITORING POINT AND IDENTIFICATION NUMBER
- DP-1A — SUB-SLAB DEPRESURAIZATION PIT AND IDENTIFICATION NUMBER

FOR CONSTRUCTION

PROVIDE LIQUID BOOT GAS VAPOR BARRIER SYSTEM UNDER SLAB AS MANUFACTURED BY CETCO CONSISTING OF ULTRASHIELD G-1000, 60 DRY MILS LIQUID BOOT AND LIQUID BOOT BASE FABRIC. SYSTEM SHALL INSTALLED BY AUTHORIZED INSTALLER. REFER TO DETAILS FOR ADDITIONAL INFORMATION. REFER TO CONTRACT DOCUMENTS FOR LOCATIONS OF PENETRATIONS THROUGH THE SLAB.

OFFSET VENT ABOVE CEILING AT ROOF AND EXTEND THROUGH ROOF APPROXIMATELY 3' FROM PARAPET WALLS AND TERMINATE 24" ABOVE FINISHED ROOF.

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DRAWING TITLE: VAPOR REMEDIATION UNDERSLAB PLAN

PROJECT #: 14-534
DRAWN BY:
CHECKED BY: FRM

DRAWING NO: FO-500.00

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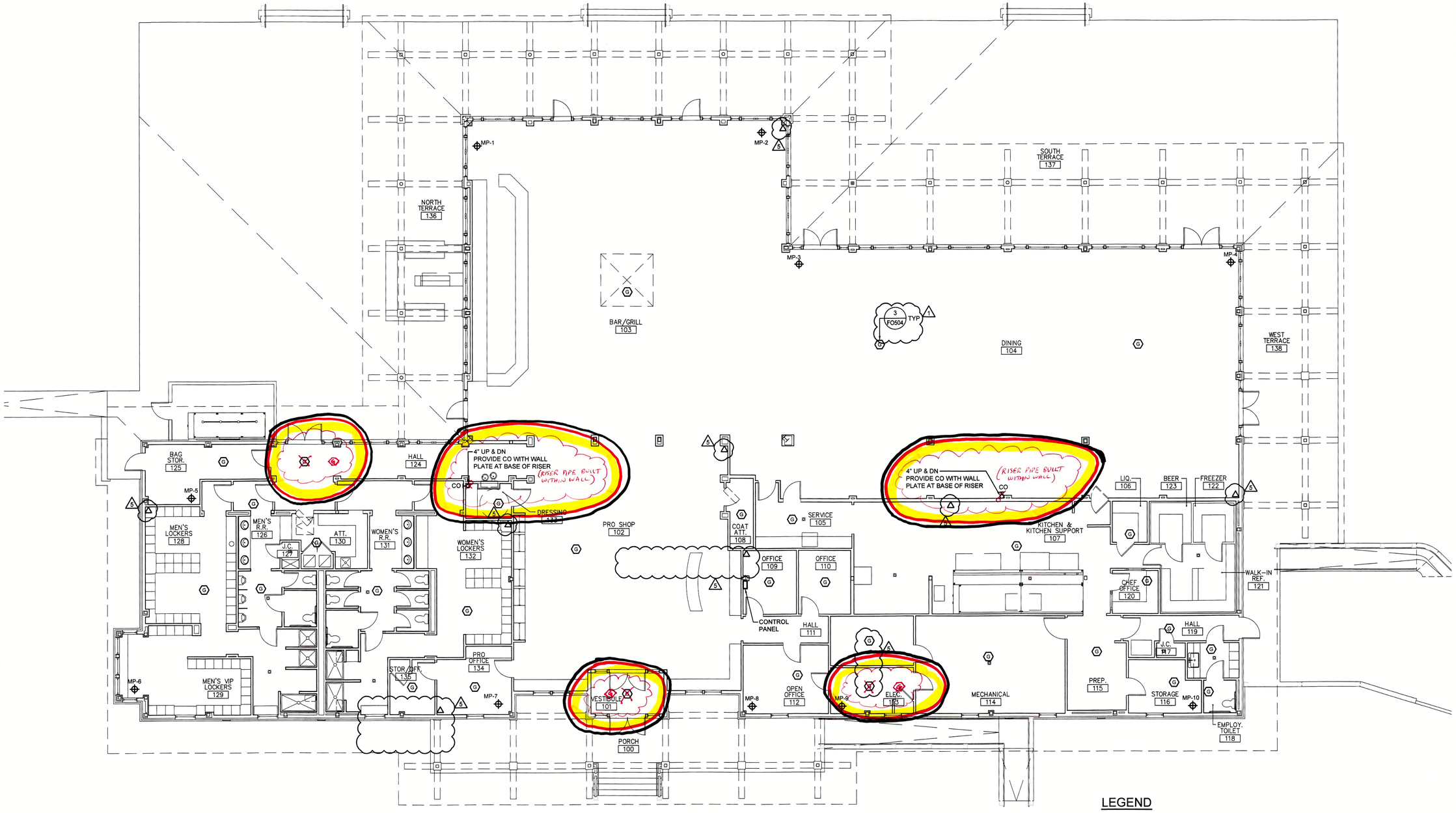

FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

LEGEND

SFV-1	SUCTION FAN VERTICAL 4" RISER AND IDENTIFICATION NUMBER. EXTEND THRU ATTIC TO SUCTION FAN
MP-1	SUB-SLAB MONITORING POINT AND IDENTIFICATION NUMBER
G	GAS SENSOR
	METHANE GAS SENSOR CONTROL PANEL
	METHANE GAS LIGHT TOWER ALARM - HANG FROM CEILING

Donald Bowman 6/7/2018

STATE OF NEW YORK
DONALD F. BOWMAN
No. 095674
LICENSED PROFESSIONAL ENGINEER

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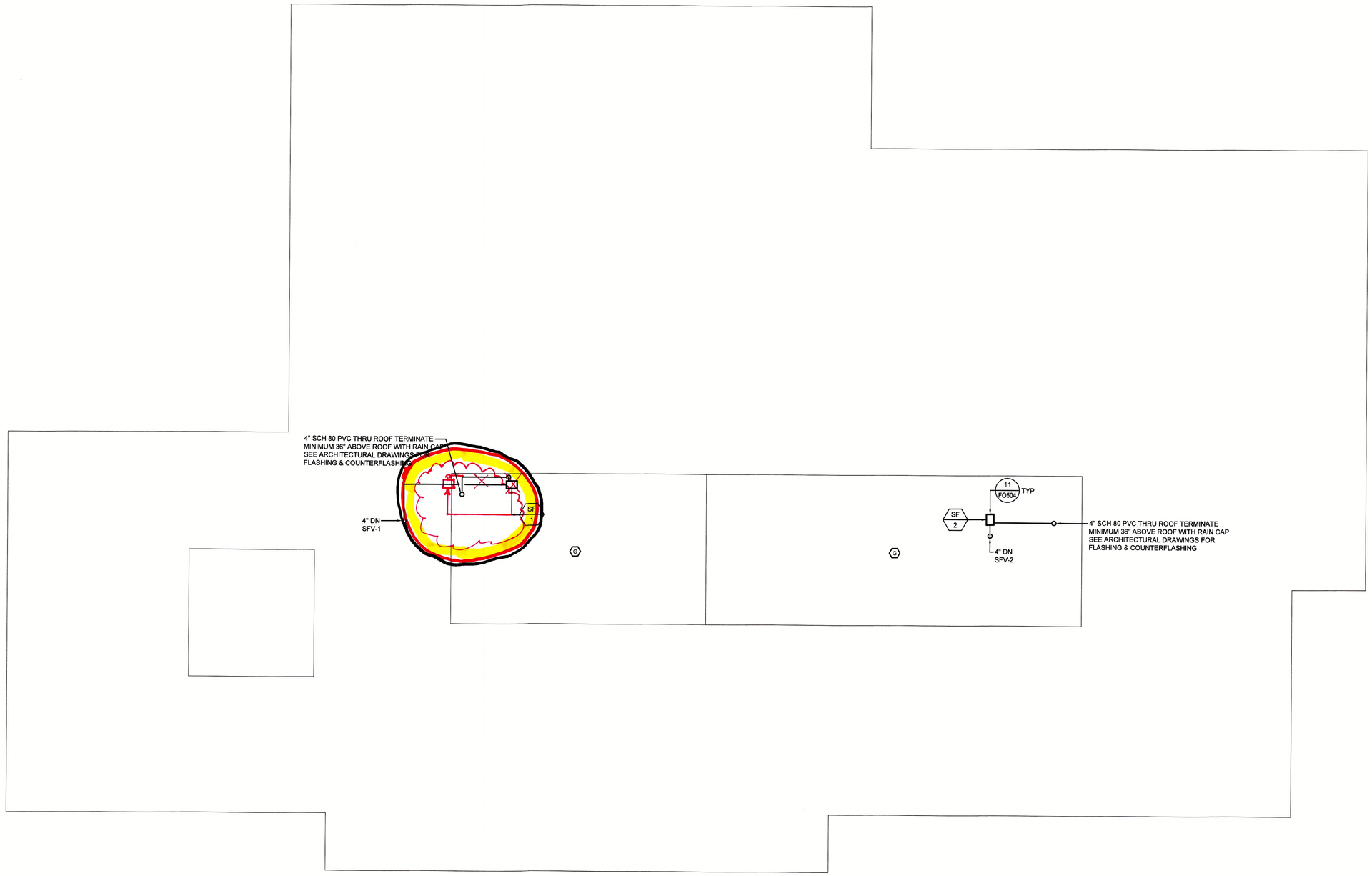

ATTIC/MEZZANINE PLAN

SCALE: 1/8" = 1'-0"

Donald Bowman
6/7/2018

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VAPOR REMEDIATION ATTIC & MEZZANINE PLAN

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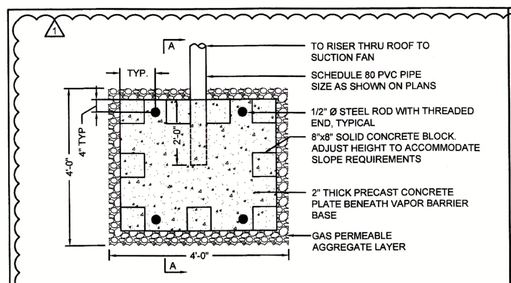

PLAN VIEW - TYPICAL SUB-SLAB DEPRESSURIZATION PIT 1A
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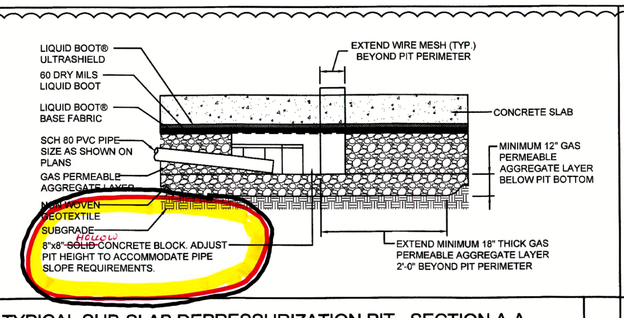

TYPICAL SUB-SLAB DEPRESSURIZATION PIT - SECTION A-A 1B
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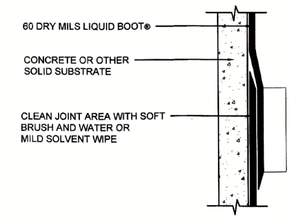

GAS VAPOR BARRIER MEMBRANE LAP JOINTS ON SOLID SUBSTRATE 2A
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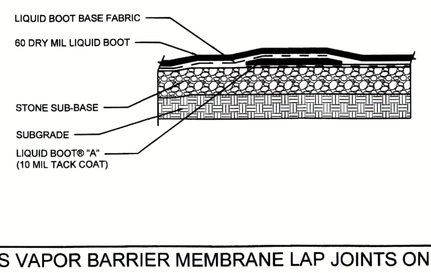

GAS VAPOR BARRIER MEMBRANE LAP JOINTS ON SOLID SUBSTRATE 2B
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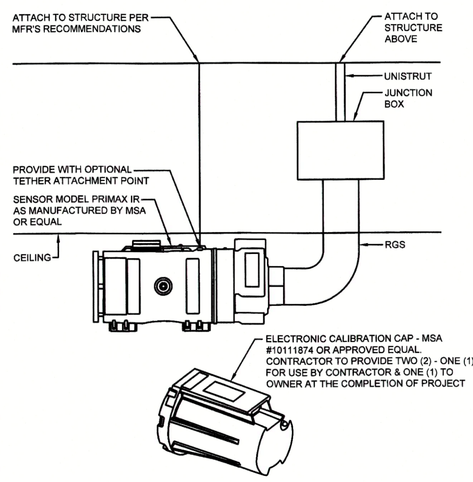

GAS SENSOR DETAIL 3
NOT TO SCALE

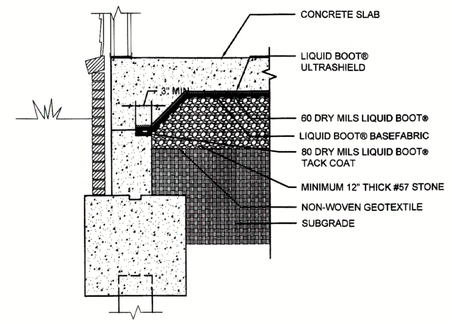

GAS VAPOR BARRIER AT EXTERIOR WALL DETAIL 4
NOT TO SCALE

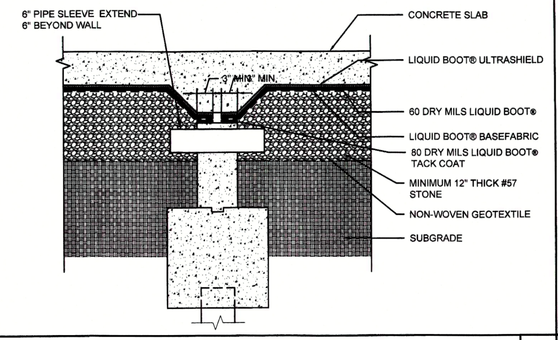

GAS VAPOR BARRIER AT INTERIOR WALL DETAIL 5
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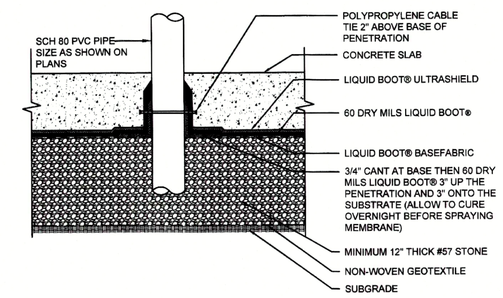

TYPICAL GAS VAPOR BARRIER PENETRATION DETAIL WITHOUT SLEEVE 6
NOT TO SCALE

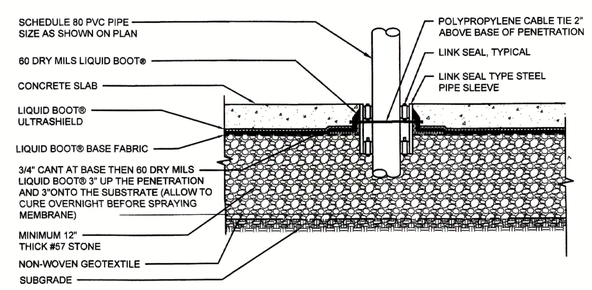

TYPICAL GAS VAPOR BARRIER PENETRATION DETAIL 7
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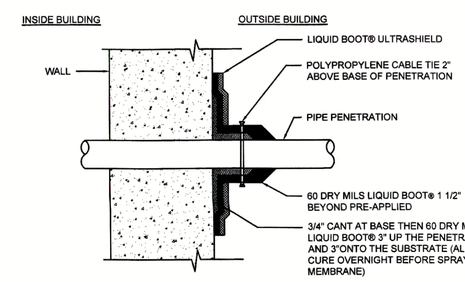

TYPICAL GAS VAPOR BARRIER PENETRATION THRU WALL BELOW GRADE DETAIL WITHOUT SLEEVE 8A
NOT TO SCALE

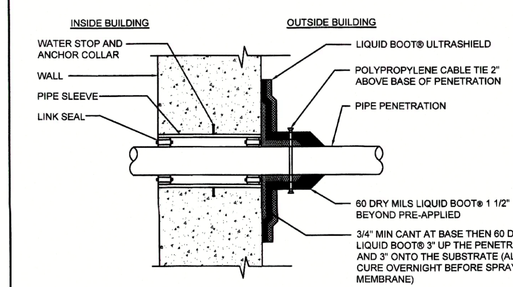

TYPICAL GAS VAPOR BARRIER PENETRATION THRU WALL BELOW GRADE DETAIL WITH SLEEVE 8B
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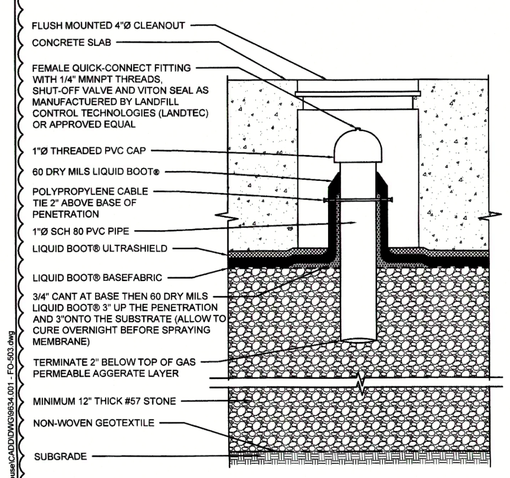

SUB-SLAB MONITORING POINT DETAIL 9
NOT TO SCALE

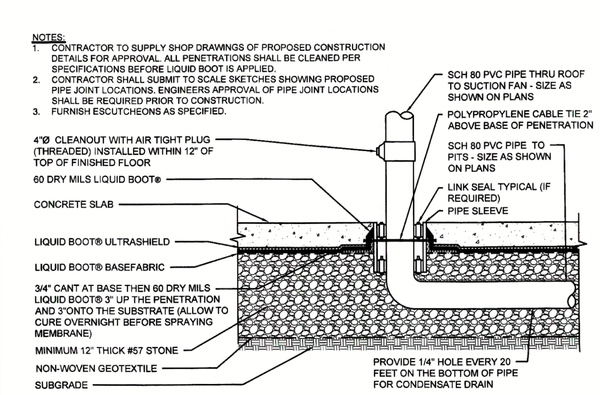

TYPICAL SSDS RISER DETAIL AT FLOOR SLAB 10
NOT TO SCALE

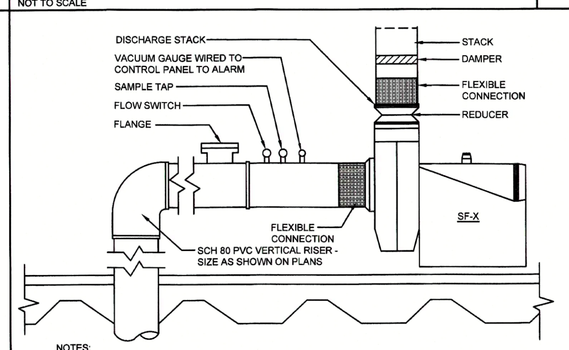

SUCTION FAN DETAIL 11
NOT TO SCALE

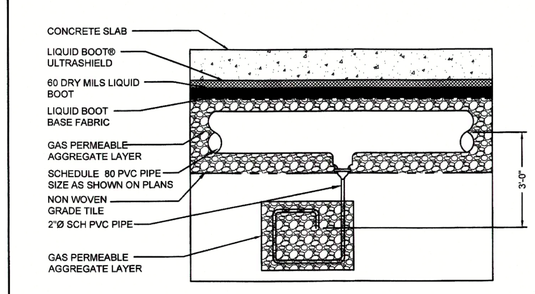

TYPICAL LOW POINT CONDENSATE DRAIN DETAIL 12
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JONATHAN V. CRAWFORD, PE
PROFESSIONAL ENGINEER, NY LIC. No. 91249

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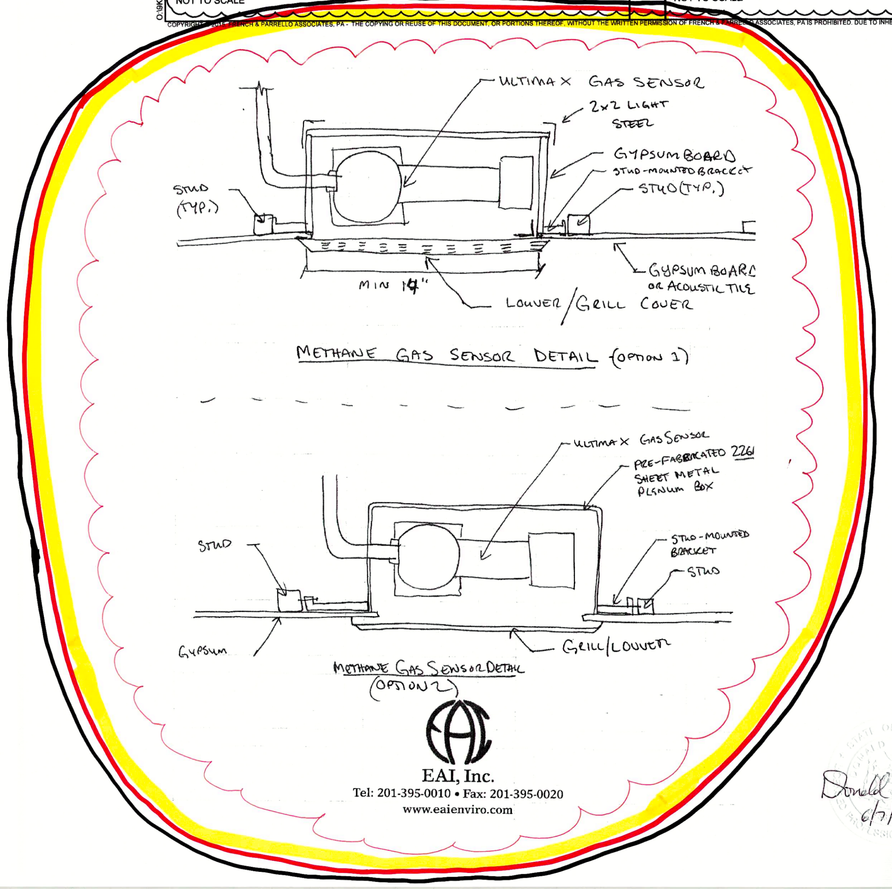

Donald Bowen 6/7/2018

STATE OF NEW YORK · DONALD F. BOWEN · No. 090824 · LICENSED PROFESSIONAL ENGINEER

HART | HOWERTON
PLANNERS · ARCHITECTS · LANDSCAPE ARCHITECTS

HARTHOWERTON, PLANNING, ARCHITECTURE AND LANDSCAPE ARCHITECTURE, PC
110 FIFTH AVENUE, NEW YORK, NY 10016
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TRUMP
THE TRUMP ORGANIZATION

TRUMP GOLF LINKS FERRY POINT PARK

500 Hutchinson River Parkway
Bronx, New York 10465

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Planners, Architects, Landscape Architects PC
The designs and concepts shown are the sole property of Hart Howerton and may not be used without the prior written consent of Hart Howerton.

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DATE	ISSUE
04-16-15	100% DD
06-02-15	30% CD
07-01-15	70% CD
07-27-15	90% CD
09-15-17	FOR CONSTRUCTION

REVISIONS

NO	DATE	ISSUE
	02-17-17	REMOVE BSMT
	03-30-17	DHC REVIEW
3	04-07-17	RE-BID/ REMOVE BSMT
4	05-05-17	COMMENTS

DRAWING TITLE: VAPOR REMEDIATION DETAILS

PROJECT #: 14-534
DRAWN BY:
CHECKED BY: FRM

DRAWING NO: FO-504.00

APPENDIX F

Letter from NYSDEC to NYCDPR re: "Ferry Point Park Golf Course Permanent Clubhouse Sub-Slab Depressurization System (SSDS) Construction Certification Report" dated July 2, 2018

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4996 I F: (718) 482-6391
www.dec.ny.gov

July 2, 2018

Kay Zias
Director of Environmental Remediation
Olmstead Center
Flushing Meadows
Corona Park
Flushing, NY 11368

Re: Ferry Point Park Golf Course
Permanent Clubhouse Sub-Slab Depressurization System (SSDS)
Construction Certification Report

Dear Ms. Zias,

New York State Department of Environmental Conservation (Department) staff have reviewed the Ferry Point Park Permanent Clubhouse Sub-Slab Depressurization System (SSDS) Construction Certification Report Sub-Slab Depressurization System plan and included drawings dated June 8, 2018 and found the report to be incomplete. Please resubmit the report incorporating the following comments:

1) The Construction Certification Report (CCR) needs to be one single document rather a compilation of various documents
2) The text needs significant expansion to describe the original problem that required addressing, proposed design including reasons for that design, the construction, including any and all problems and deviations, and timeframe. Also, all tests showing the proper operation of the system should be included in the report; it should not be included as printed e-mails. As discussed during the June 6, 2018 site visit, the level of detail necessary is such that the general public will understand the entire process.
3) During our discussion on June 6, 2018, it was request that this CRR include stamped and signed As-Built Drawings and Red-Line Drawings. They were not included. Please correct.

If you have any questions you may contact me at 718-482-4996.

Sincerely,

Kenneth B. Brezner, P.E.
Regional Material Management Engineer

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

ec: J. O'Connell/W. Frank, R2 DMM
FPP_SSDS_CCR_Comments.2018-07-02.Letter.docx

APPENDIX G

Maser Consulting P.A. Letter to NYSDEC re: "Ferry Point Park Golf Course Permanent Clubhouse Sub-Slab Depressurization System (SSDS) Construction Certification Report" dated July 11, 2018

MASER CONSULTING P.A.

Engineers
Planners
Surveyors
Landscape Architects
Environmental Scientists

Corporate Headquarters
331 Newman Springs Road, Suite 203
Red Bank, NJ 07701
T: 732.383.1950
F: 732.383.1984
www.maserconsulting.com

July 11, 2018

VIA E-MAIL & U.S. MAIL

Kenneth B. Brezner, P.E.
Regional Material Management Engineer
New York State Department of Environmental Conservation (NYSDEC)
Division of Materials Management, Region 2
47-40 21st Street
Long Island City, NY 11101

Re: Ferry Point Park Golf Course
Permanent Clubhouse Sub-Slab Depressurization System (SSDS)
Construction Certification
MC Project No. 17002426A

Dear Mr. Brezner:

Maser Consulting P.A. (Maser Consulting) has reviewed your July 2, 2018 letter (copy enclosed) to the New York City Department of Parks and Recreation ("NYC Parks") regarding our June 8, 2018 SSDS Construction Certification submittal, and provides the following clarifications based on our site meeting on June 6, 2018 attended by NYSDEC, NYC Parks, Woodard & Curran, The Trump Organization, EAI and Maser Consulting:

1) Our June 8, 2018 submittal was not the Construction Certification Report, instead it was the minimum information needed for NYSDEC's consideration to issue a temporary Certificate of Occupancy for June 11, 2018; this information (Construction Certification Statement with deviations, site summary, SSDS drawings issued for construction, SSDS drawings showing deviations from design, and daily field observation reports) was specifically detailed by you during our June 6, 2018 site meeting
2) The objective of the June 8, 2018 submittal was to demonstrate that the clubhouse is built with engineering controls (i.e. Liquid Boot® and SSDS) that, when functioning properly, will adequately protect occupants
3) The June 8, 2018 submittal did satisfy NYSDEC's requirements, as a temporary Certificate of Occupancy was issued for the June 11, 2018 clubhouse opening
4) Our final Construction Certification As-Built Report will be issued within 90 days of June 11, 2018 in accordance with NYSDEC's statutory timeframe

Please contact us if you have any questions regarding this review.

Very truly yours,
MASER CONSULTING P.A.

Robert L. Zelley, P.G.
Senior Principal
Director of Environmental Services

Donald F. Bowman, P.E.
Senior Project Manager
New York License No. 095674

RLZ/DFB/dw

Enclosure

cc: Kay Zias, Director of Environmental Remediation, NYC Department of Parks & Recreation (via e-mail)
Steven Lauria, P.E., Project Manager/Principal, Woodard & Curran (via e-mail)
Joe Roediger, General Manager, Trump Golf Links Ferry Point (via e-mail)
John Gruber, Construction Manager, The Trump Organization (via e-mail)
David Keil, P.G., Maser Consulting P.A (via e-mail)

njncad\\projects\2017\17002426a\180711 rlz dfb Trump Ferry Pt Pk clubhouse SSDS.docx

ENCLOSURE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4996 I F: (718) 482-6391
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July 2, 2018

Kay Zias
Director of Environmental Remediation
Olmstead Center
Flushing Meadows
Corona Park
Flushing, NY 11368

Re: Ferry Point Park Golf Course
Permanent Clubhouse Sub-Slab Depressurization System (SSDS)
Construction Certification Report

Dear Ms. Zias,

New York State Department of Environmental Conservation (Department) staff have reviewed the Ferry Point Park Permanent Clubhouse Sub-Slab Depressurization System (SSDS) Construction Certification Report Sub-Slab Depressurization System plan and included drawings dated June 8, 2018 and found the report to be incomplete. Please resubmit the report incorporating the following comments:

1) The Construction Certification Report (CCR) needs to be one single document rather a compilation of various documents
2) The text needs significant expansion to describe the original problem that required addressing, proposed design including reasons for that design, the construction, including any and all problems and deviations, and timeframe. Also, all tests showing the proper operation of the system should be included in the report; it should not be included as printed e-mails. As discussed during the June 6, 2018 site visit, the level of detail necessary is such that the general public will understand the entire process.
3) During our discussion on June 6, 2018, it was request that this CRR include stamped and signed As-Built Drawings and Red-Line Drawings. They were not included. Please correct.

If you have any questions you may contact me at 718-482-4996.

Sincerely,

Kenneth B. Brezner, P.E.
Regional Material Management Engineer

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

ec: J. O'Connell/W. Frank, R2 DMM
FPP_SSDS_CCR_Comments.2018-07-02.Letter.docx

APPENDIX H

NYSDEC Construction Duration Inspections performed by Maser Consulting P.A.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 7/21/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☐ ☑ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☑ ☐ Joints constructed by wrapping the two ends together for continuous support.
☐ ☑ ☐ Fabric buried 6 inches minimum.
☑ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes No NA

☐ ☐ ☑ Installed concrete blocks lengthwise so open ends face outward, not upward.
☐ ☐ ☑ Placed wire screen between No. 3 crushed stone and concrete blocks.
☐ ☐ ☑ Drainage area is 1acre or less.
☐ ☐ ☑ Excavated area is 900 cubic feet.
☐ ☐ ☑ Excavated side slopes should be 2:1.
☐ ☐ ☑ 2" x 4" frame is constructed and structurally sound.
☐ ☐ ☑ Posts 3-foot maximum spacing between posts.
☐ ☐ ☑ Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes No NA

☐ ☐ ☑ Outlet structure is constructed per the approved plan or drawing.
☐ ☐ ☑ Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes No NA

☐ ☐ ☑ Basin and outlet structure constructed per the approved plan.
☐ ☐ ☑ Basin side slopes are stabilized with seed/mulch.
☐ ☐ ☑ Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes
Cover material to approximately 1' in depth was stockpiled to a temporary location on the Clubhouse construction area and then moved onto tarp in the parking lot location. Maser Consulting observed silt fence installed around the perimeter of Clubhouse construction area and parking lot. Parking lot stockpile tarped and anchored with sandbags. Storm drain inlet protection was installed in the parking lot area. Maser Consulting and Woodard & Curran advised the Contractor to bury the silt fence approximately 6" in depth.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

General Notes:
Clean cover material to approximately 1' in depth was stockpiled to a temporary location on the Clubhouse construction area and then moved onto tarp in the parking lot location. Maser Consulting observed silt fence installed around the perimeter of Clubhouse construction area and parking lot. Parking lot stockpile tarped and anchored with sandbags. Storm drain inlet protection was installed in the parking lot area. Maser Consulting and Woodard & Curran advised the Contractor to bury the silt fence.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 7/28/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☑ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes
Silt fencing buried 6" into soil in construction site area. Tarping placed over silt fencing in parking lot since the area surrounds pavement. Maser Consulting informed foreman that the temporary shaping layer stockpile within the construction area will require a silt fence boundary and tarping with sand bags as anchors.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

General Notes
Silt fencing buried 6" into soil in construction site area. Tarping placed over silt fencing in parking lot since the area surrounds pavement. Maser Consulting informed foreman that the temporary shaping layer stockpile within the construction area will require a silt fence boundary and tarping with sand bags as anchors.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 8/04/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☑ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes
Silt fencing installed around base of the shaping layer stockpile and buried 6" into soil in construction site area. Maser Consulting informed foreman that the temporary shaping layer stockpile within the construction area will require tarping/hydroseeding. Silt fencing and tarping after storm event caused some sumping and uncovered stockpiles as shown. Silt fencing and tarping was readjusted to be tight immediately.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Haybales were not installed at up-slope of the parking lot area since water would not be exiting this area through the stockpiles. Temporary shaping stockpile installed onsite to contain remaining shaping layer soil for backfill.

General Notes
Silt fencing installed around base of the shaping layer stockpile and buried 6" into soil in construction site area. Maser Consulting informed foreman that the temporary shaping layer stockpile within the construction area will require tarping/hydroseeding. Silt fencing and tarping after storm event caused some sumping and uncovered stockpiles as shown. Silt fencing and tarping was readjusted to be tight immediately.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 8/11/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☑ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes:
Maser Consulting and Woodard & Curran informed the foreman that the shaping layer temporary stockpile could not exceed a height over the temporary fence. The stockpile was lowered so that the pile height was lower than the temporary fence. The foreman was also informed to hydroseed the temporary stockpile.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Haybales were not installed at up-slope of the parking lot area since water would not be exiting this area through the stockpiles. Temporary shaping stockpile installed onsite to contain remaining shaping layer soil for backfill.

General Notes:
Maser Consulting and Woodard & Curran informed the foreman that the shaping layer temporary stockpile could not exceed a height over the temporary fence. The stockpile was lowered so that the pile height was lower than the temporary fence. The foreman was also informed to hydroseed the temporary stockpile.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 8/22/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes:
Additional stormwater drain inlet protection drains were intalled in the parking lot. Co-mingled temporary stockpile soil was backfilled to small area locations.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Co-mingled construction area temporary stockpile to be tarped and anchored instead of hydroseeded,

General Notes:
Additional stormwater drain inlet protection drains were intalled in the parking lot. Co-mingled temporary stockpile soil was backfilled to small area locations for concrete base installation.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 8/29/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes:
The co-mingled temporary stockpile on-site was tarped and anchored. The silt fencing around it was taken down towards the center where pile driving activities were done.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Orange-brown coating coming off of parking lot stockpiles. Coating doesn`t reach drains. Additional sheeting was placed under the haybales to better retain coating. The silt fence around the co-mingled stockpile was opened as to allow pile driving activities to commence.

General Notes:
The co-mingled temporary stockpile on-site was tarped and anchored. The silt fencing around it was taken down towards the center where pile driving activities were done.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 9/05/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes:
Heavy wind dislogged tarping on the parking lot and temporary on-site stockpiles. The stockpiles were fixed immediately.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

General Notes:
Heavy wind dislogged tarping on the parking lot and temporary on-site stockpiles. The stockpiles were fixed immediately. Co-mingled soil was used to backfill and hold concrete forms.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 9/11/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes:
Soil from co-mingled soil stockpile on-site was backfilled into concrete base. Stockpile uncovered as backfilled.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

General Notes:
Soil from co-mingled soil stockpile on-site was backfilled into concrete base. Soil uncovered as soil was backfilled.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 9/29/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes:
Clean fill will be brought on the site and sampled by Maser Consulting to assure QAQC.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

General Notes:
Clean fill will be brought on to the site and sampled by Maser Consulting to assure QAQC.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 10/06/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes:
Co-mingled soil towards the southern end of the building compacted in lifts. Clean fill will be brought on to the site and sampled by Maser Consulting to assure QAQC for remaining backfill. Site currently prepared for installation of SSDS.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

General Notes:
Co-mingled soil towards the southern end of the building compacted in lifts. Clean fill will be brought on to the site and sampled by Maser Consulting to assure QAQC for remaining backfill. Site currently prepared for installation of SSDS.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

John Fortunato — 10/11/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes:
Co-mingled soil towards the southern end of the building compacted in lifts. Clean gravel brought in and spread across compacted areas in preparation for installation of SSDS.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

General Notes:
Co-mingled soil towards the southern end of the building compacted in lifts. Clean gravel brought in and spread across compacted areas in preparation for installation of SSDS.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 10/25/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

General Notes:
Co-mingled soil stockpile is located towards the eastern side of the construction site. Clean crushed stone is stockpiled on the western side in preparation for installation of SSDS components.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 11/01/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☐ ☑ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes No NA

☐ ☐ ☐ Installed concrete blocks lengthwise so open ends face outward, not upward.
☐ ☐ ☐ Placed wire screen between No. 3 crushed stone and concrete blocks.
☐ ☐ ☐ Drainage area is 1acre or less.
☐ ☐ ☐ Excavated area is 900 cubic feet.
☐ ☐ ☐ Excavated side slopes should be 2:1.
☐ ☐ ☐ 2" x 4" frame is constructed and structurally sound.
☐ ☐ ☐ Posts 3-foot maximum spacing between posts.
☐ ☐ ☐ Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☐ ☐ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes No NA

☐ ☐ ☐ Outlet structure is constructed per the approved plan or drawing.
☐ ☐ ☐ Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes No NA

☐ ☐ ☐ Basin and outlet structure constructed per the approved plan.
☐ ☐ ☐ Basin side slopes are stabilized with seed/mulch.
☐ ☐ ☐ Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

General Notes:
Co-mingled soil towards the southern end of the building compacted in lifts. Clean gravel brought in and spread across compacted areas in preparation for installation of SSDS.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 11/08/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes	No	NA	
☐	☐	☑	Is channel stable? (flow is not eroding soil underneath or around the structure).
☐	☐	☑	Check is in good condition (rocks in place and no permanent pools behind the structure).
☐	☐	☑	Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes	No	NA	
☐	☐	☑	Installed per plan.
☐	☐	☑	Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes	No	NA	
☐	☑	☐	Stockpiles are stabilized with vegetation and/or mulch.
☑	☐	☐	Sediment control is installed at the toe of the slope.

2. Revegetation

Yes	No	NA	
☐	☐	☑	Temporary seedings and mulch have been applied to idle areas.
☐	☐	☑	4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes	No	NA	
☑	☐	☐	Stone is clean enough to effectively remove mud from vehicles.
☑	☐	☐	Installed per standards and specifications?
☑	☐	☐	Does all traffic use the stabilized entrance to enter and leave site?
☑	☐	☐	Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes	No	NA	
☑	☐	☐	Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑	☐	☐	Joints constructed by wrapping the two ends together for continuous support.
☑	☐	☐	Fabric buried 6 inches minimum.
☑	☑	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 5 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 11/29/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 12/6/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — December 13, 2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

High winds displaced several tarps that were used to cover the soil stockpile in the parking lot. Tarps are being replaced and secured.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 12/22/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

During the week, new sheeting and tarps were placed over the soils stockpiled in the parking lot.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 12/27/2017

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — January 3, 2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

all stockpile soils inside the construction area have been spread to grade level(s). Soil stockpile in the parking area continues to require re-tarping and anchoring as a result of high winds. Security screening between the construction site and the golf course has-for the most part, been taken down also due to high wind conditions.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil
Inspector (print name)

January 10, 2018
Date of Inspection

David Keil
Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Weathered sections of non-essential silt fence surrounding the soil stockpile in the parking lot are scheduled for removal and replacement. Repairs are expected on or before January 17, 2018.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 01/17/2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 0 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Storm Drain Sediment filters--downslope of the soil stockpile in the parking lot--were cleaned and reinstalled over the past week.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — January 24, 2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 0 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

20 to 25mph winds today displaced some of the tarps used to cover the soil stockpile in the parking lot. By day's end, new tarps were spread over the soil stockpile and anchored.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — January 31, 2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 0 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 02/07/2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 5% % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Soil stockpile and hay bails to be covered (tarped) following the snow/rain event of 2/7/2018. Hay Bails are to be re-set as well.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave keil
Inspector (print name)

February 14, 2018
Date of Inspection

David Keil
Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes	No	NA	
☐	☐	☑	Is channel stable? (flow is not eroding soil underneath or around the structure).
☐	☐	☑	Check is in good condition (rocks in place and no permanent pools behind the structure).
☐	☐	☑	Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes	No	NA	
☐	☐	☑	Installed per plan.
☐	☐	☑	Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes	No	NA	
☐	☑	☐	Stockpiles are stabilized with vegetation and/or mulch.
☑	☐	☐	Sediment control is installed at the toe of the slope.

2. Revegetation

Yes	No	NA	
☐	☐	☑	Temporary seedings and mulch have been applied to idle areas.
☐	☐	☑	4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes	No	NA	
☑	☐	☐	Stone is clean enough to effectively remove mud from vehicles.
☑	☐	☐	Installed per standards and specifications?
☑	☐	☐	Does all traffic use the stabilized entrance to enter and leave site?
☑	☐	☐	Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes	No	NA	
☑	☐	☐	Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑	☐	☐	Joints constructed by wrapping the two ends together for continuous support.
☐	☑	☐	Fabric buried 6 inches minimum.
☑	☑	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 0 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

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2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

New silt fence was installed around the soil stockpile in the parking area. The silt fence is staked in-place above the curb-line in the grassy islands of the northern parking lot. New tarps and tarp-anchors were set in place on this same stockpile.

Storm sewer sediment traps were also cleaned and replaced.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 02/23/2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes	No	NA	
☐	☐	☑	Is channel stable? (flow is not eroding soil underneath or around the structure).
☐	☐	☑	Check is in good condition (rocks in place and no permanent pools behind the structure).
☐	☐	☑	Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes	No	NA	
☐	☐	☑	Installed per plan.
☐	☐	☑	Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes	No	NA	
☐	☑	☐	Stockpiles are stabilized with vegetation and/or mulch.
☑	☐	☐	Sediment control is installed at the toe of the slope.

2. Revegetation

Yes	No	NA	
☐	☐	☑	Temporary seedings and mulch have been applied to idle areas.
☐	☐	☑	4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes	No	NA	
☑	☐	☐	Stone is clean enough to effectively remove mud from vehicles.
☑	☐	☐	Installed per standards and specifications?
☑	☐	☐	Does all traffic use the stabilized entrance to enter and leave site?
☑	☐	☐	Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes	No	NA	
☑	☐	☐	Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑	☐	☐	Joints constructed by wrapping the two ends together for continuous support.
☑	☐	☐	Fabric buried 6 inches minimum.
☑	☑	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 5 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

All erosion control features were found to be in satisfactory condition

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 02/28/2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes	No	NA	
☐	☐	☑	Is channel stable? (flow is not eroding soil underneath or around the structure).
☐	☐	☑	Check is in good condition (rocks in place and no permanent pools behind the structure).
☐	☐	☑	Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes	No	NA	
☐	☐	☑	Installed per plan.
☐	☐	☑	Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes	No	NA	
☐	☑	☐	Stockpiles are stabilized with vegetation and/or mulch.
☑	☐	☐	Sediment control is installed at the toe of the slope.

2. Revegetation

Yes	No	NA	
☐	☐	☑	Temporary seedings and mulch have been applied to idle areas.
☐	☐	☑	4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes	No	NA	
☑	☐	☐	Stone is clean enough to effectively remove mud from vehicles.
☑	☐	☐	Installed per standards and specifications?
☑	☐	☐	Does all traffic use the stabilized entrance to enter and leave site?
☑	☐	☐	Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes	No	NA	
☑	☐	☐	Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑	☐	☐	Joints constructed by wrapping the two ends together for continuous support.
☑	☐	☐	Fabric buried 6 inches minimum.
☑	☑	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 5 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

All erosion control features were found to be in satisfactory condition

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 03/08/2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes	No	NA	
☐	☐	☑	Is channel stable? (flow is not eroding soil underneath or around the structure).
☐	☐	☑	Check is in good condition (rocks in place and no permanent pools behind the structure).
☐	☐	☑	Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes	No	NA	
☐	☐	☑	Installed per plan.
☐	☐	☑	Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes	No	NA	
☐	☑	☐	Stockpiles are stabilized with vegetation and/or mulch.
☑	☐	☐	Sediment control is installed at the toe of the slope.

2. Revegetation

Yes	No	NA	
☐	☐	☑	Temporary seedings and mulch have been applied to idle areas.
☐	☐	☑	4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes	No	NA	
☑	☐	☐	Stone is clean enough to effectively remove mud from vehicles.
☑	☐	☐	Installed per standards and specifications?
☑	☐	☐	Does all traffic use the stabilized entrance to enter and leave site?
☑	☐	☐	Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes	No	NA	
☑	☐	☐	Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑	☐	☐	Joints constructed by wrapping the two ends together for continuous support.
☑	☐	☐	Fabric buried 6 inches minimum.
☑	☑	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 5 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

All erosion control features were found to be in satisfactory condition following the March 7, 2018 Nor'easter. Only minor displacements to the tarps covering the soil stockpile in the parking lot were noted. It was recommended that the contractor adjust the tarp anchors where they may have loosed to form a more wind-resistant cover.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil
Inspector (print name)

March 23, 2018
Date of Inspection

David Keil
Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 5 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 5 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

The post-storm inspection of the soil pile in the parking lot showed that several tarps have been displaced. JCS has been directed to re-trap and re-anchor the tarps as soon as possible.

Excess soils from the electrical trench for the clock tower remain on-site. The soil will be re-used in the construction area in the near future.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

David Keil — 3/28/2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes	No	NA	
☐	☐	☑	Is channel stable? (flow is not eroding soil underneath or around the structure).
☐	☐	☑	Check is in good condition (rocks in place and no permanent pools behind the structure).
☐	☐	☑	Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes	No	NA	
☐	☐	☑	Installed per plan.
☐	☐	☑	Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes	No	NA	
☐	☑	☐	Stockpiles are stabilized with vegetation and/or mulch.
☑	☐	☐	Sediment control is installed at the toe of the slope.

2. Revegetation

Yes	No	NA	
☐	☐	☑	Temporary seedings and mulch have been applied to idle areas.
☐	☐	☑	4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes	No	NA	
☑	☐	☐	Stone is clean enough to effectively remove mud from vehicles.
☑	☐	☐	Installed per standards and specifications?
☑	☐	☐	Does all traffic use the stabilized entrance to enter and leave site?
☑	☐	☐	Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes	No	NA	
☑	☐	☐	Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑	☐	☐	Joints constructed by wrapping the two ends together for continuous support.
☑	☐	☐	Fabric buried 6 inches minimum.
☑	☑	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Cover tarps on the soil stockpile in the parking lot need to be re-adjusted. Winds have displaced them again. JCS has been advised to address this matter asap and to clean the silt traps in the storm sewer at the same time.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 4/04/2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes	No	NA	
☐	☐	☑	Is channel stable? (flow is not eroding soil underneath or around the structure).
☐	☐	☑	Check is in good condition (rocks in place and no permanent pools behind the structure).
☐	☐	☑	Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes	No	NA	
☐	☐	☑	Installed per plan.
☐	☐	☑	Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes	No	NA	
☐	☑	☐	Stockpiles are stabilized with vegetation and/or mulch.
☑	☐	☐	Sediment control is installed at the toe of the slope.

2. Revegetation

Yes	No	NA	
☐	☐	☑	Temporary seedings and mulch have been applied to idle areas.
☐	☐	☑	4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes	No	NA	
☑	☐	☐	Stone is clean enough to effectively remove mud from vehicles.
☑	☐	☐	Installed per standards and specifications?
☑	☐	☐	Does all traffic use the stabilized entrance to enter and leave site?
☑	☐	☐	Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes	No	NA	
☑	☐	☐	Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑	☐	☐	Joints constructed by wrapping the two ends together for continuous support.
☑	☐	☐	Fabric buried 6 inches minimum.
☑	☑	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Cover tarps on soil stockpile in parking lot have been re-secured and re-anchored.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 4-18-2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 5 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

soil stockpile in parking lot was not re-used on site this week as planned. Re-use is scheduled for next week.
Tarps need to be re-secured until re-use is in progress.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — May 4, 2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

soil stockpile remains in the parking lot. Re-use fo material behind the new club house is scheduled for next week.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 5-8-2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

movement of soils from parking lot into the construction site did not take place as scheduled this week.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 5-16-2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☑ ☐ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑ ☐ ☐ Joints constructed by wrapping the two ends together for continuous support.
☑ ☐ ☐ Fabric buried 6 inches minimum.
☑ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 10 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Movement of soils from parking lot stockpile to the construction site began this week. Approximately 50% of the stockpiled material was re-used.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 5-23-2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes	No	NA	
☐	☐	☑	Is channel stable? (flow is not eroding soil underneath or around the structure).
☐	☐	☑	Check is in good condition (rocks in place and no permanent pools behind the structure).
☐	☐	☑	Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes	No	NA	
☐	☐	☑	Installed per plan.
☐	☐	☑	Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes	No	NA	
☐	☑	☐	Stockpiles are stabilized with vegetation and/or mulch.
☑	☐	☐	Sediment control is installed at the toe of the slope.

2. Revegetation

Yes	No	NA	
☐	☐	☑	Temporary seedings and mulch have been applied to idle areas.
☐	☐	☑	4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes	No	NA	
☑	☐	☐	Stone is clean enough to effectively remove mud from vehicles.
☑	☐	☐	Installed per standards and specifications?
☑	☐	☐	Does all traffic use the stabilized entrance to enter and leave site?
☑	☐	☐	Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes	No	NA	
☑	☐	☐	Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑	☐	☐	Joints constructed by wrapping the two ends together for continuous support.
☑	☐	☐	Fabric buried 6 inches minimum.
☑	☑	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

with the soil re-use in progress, the silt fence has limited use and has been taken down in areas where the stockpile has been removed. Hay bails continue to surround the pile. Materials are being moved to areas on the construction site.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — 5-31-2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes	No	NA	
☐	☐	☑	Is channel stable? (flow is not eroding soil underneath or around the structure).
☐	☐	☑	Check is in good condition (rocks in place and no permanent pools behind the structure).
☐	☐	☑	Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes	No	NA	
☐	☐	☑	Installed per plan.
☐	☐	☑	Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes	No	NA	
☐	☑	☐	Stockpiles are stabilized with vegetation and/or mulch.
☑	☐	☐	Sediment control is installed at the toe of the slope.

2. Revegetation

Yes	No	NA	
☐	☐	☑	Temporary seedings and mulch have been applied to idle areas.
☐	☐	☑	4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes	No	NA	
☑	☐	☐	Stone is clean enough to effectively remove mud from vehicles.
☑	☐	☐	Installed per standards and specifications?
☑	☐	☐	Does all traffic use the stabilized entrance to enter and leave site?
☑	☐	☐	Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes	No	NA	
☑	☐	☐	Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☑	☐	☐	Joints constructed by wrapping the two ends together for continuous support.
☑	☐	☐	Fabric buried 6 inches minimum.
☑	☑	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation 10 % of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

approximately 1/4 of the soils stockpiled in the parking lot remains. The balance has been moved to the construction site for the new club house.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil
Inspector (print name)

June 8, 2018
Date of Inspection

David Keil
Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☐ ☑ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☐ ☐ ☑ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☐ ☑ Joints constructed by wrapping the two ends together for continuous support.
☐ ☐ ☑ Fabric buried 6 inches minimum.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is 10 % of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

most of the soil stockpile from the parking lot has been relocated to the club house construction site for regrading.

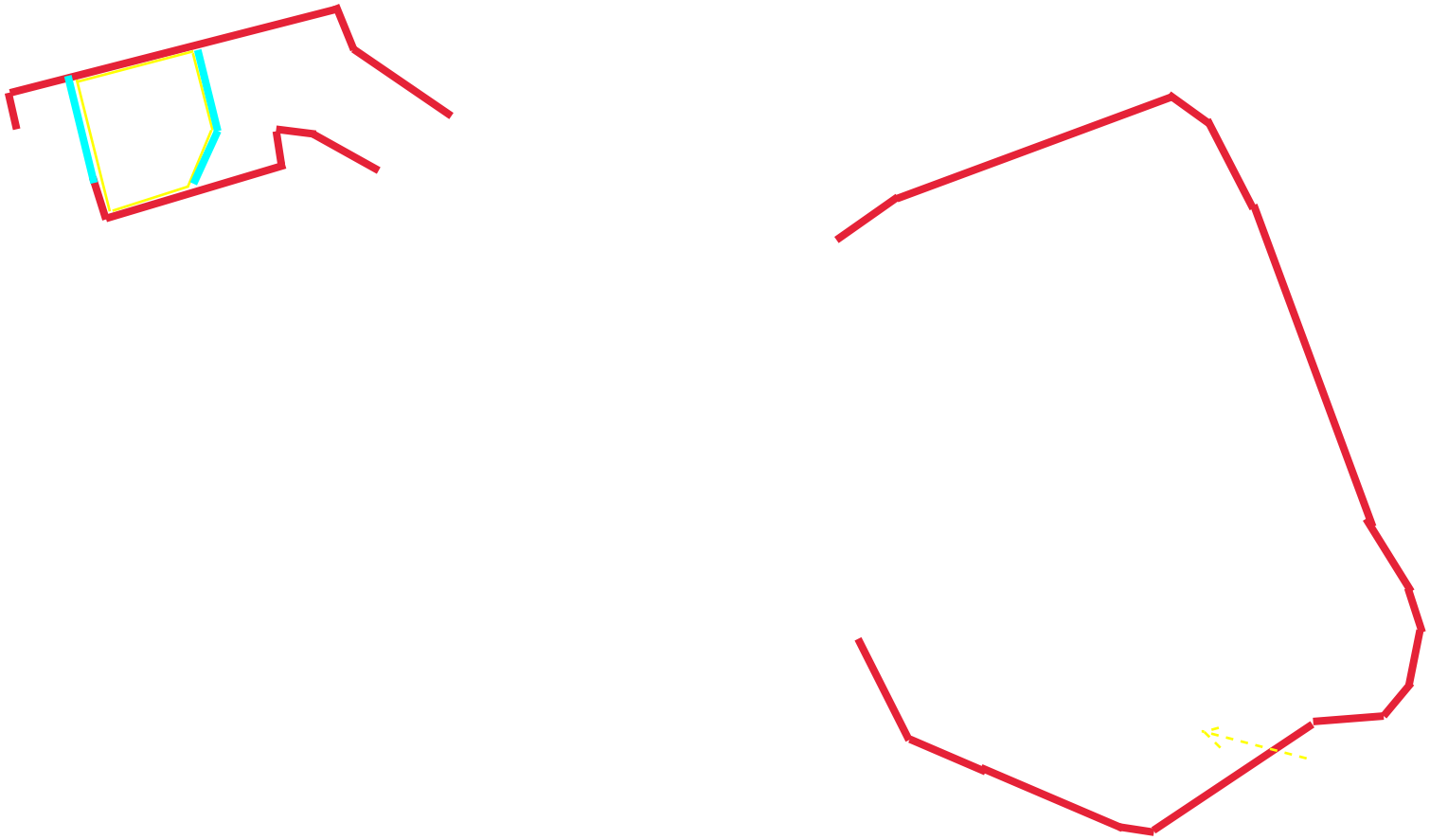

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

SITE PLAN/SKETCH

Dave Keil — June 20, 2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance

Yes No NA

☑ ☐ ☐ Stone is clean enough to effectively remove mud from vehicles.
☑ ☐ ☐ Installed per standards and specifications?
☑ ☐ ☐ Does all traffic use the stabilized entrance to enter and leave site?
☑ ☐ ☐ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

☐ ☑ ☐ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☑ ☐ Joints constructed by wrapping the two ends together for continuous support.
☐ ☑ ☐ Fabric buried 6 inches minimum.
☐ ☑ ☐ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is 10 % of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

minor volumes of soil remain in the parking lot (estimate 2 yards of material)

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

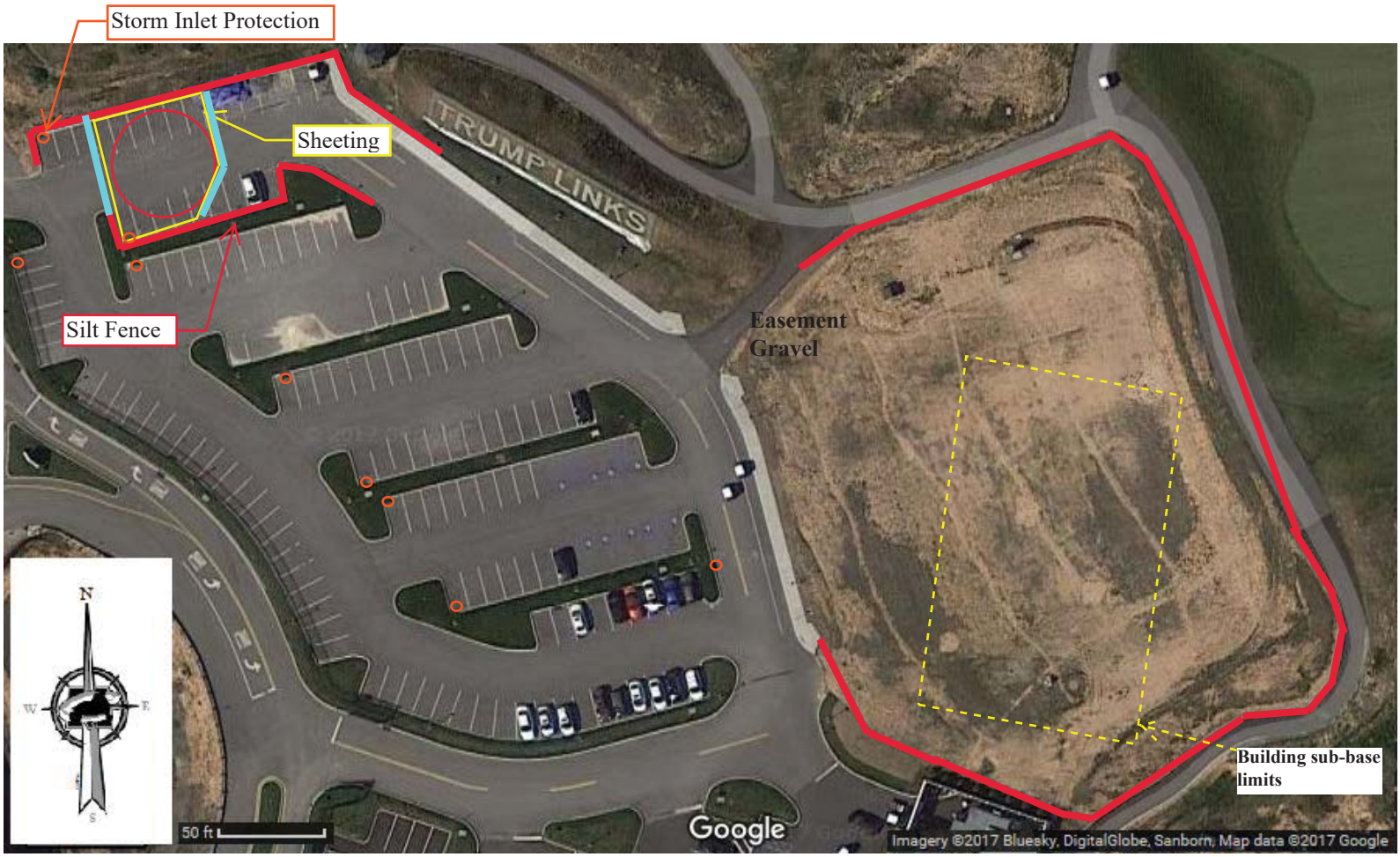

SITE PLAN/SKETCH

Dave Keil — June 27, 2018

Inspector (print name) — **Date of Inspection**

David Keil

Qualified Professional (print name) — **Qualified Professional Signature**

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☑ ☐ ☐ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☐ ☐ ☑ Stone is clean enough to effectively remove mud from vehicles.
☐ ☐ ☑ Installed per standards and specifications?
☐ ☐ ☑ Does all traffic use the stabilized entrance to enter and leave site?
☐ ☐ ☑ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☐ ☐ ☑ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☐ ☑ Joints constructed by wrapping the two ends together for continuous support.
☐ ☐ ☑ Fabric buried 6 inches minimum.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is 25 % of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Sediment traps in storm sewers require cleaning & maintenance. Contractor has been advised.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

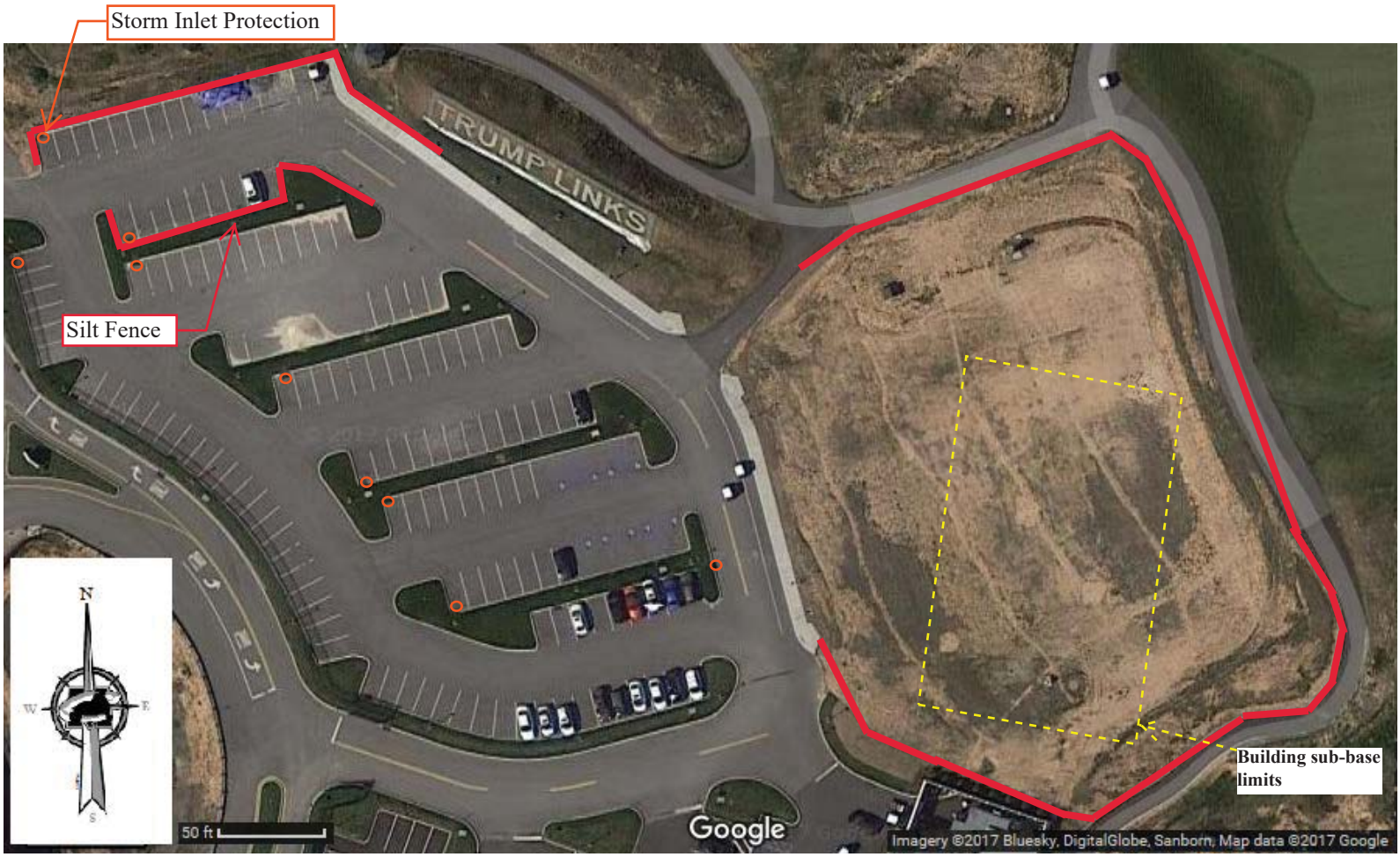

SITE PLAN/SKETCH

Dave Keil
Inspector (print name)

July 5, 2018
Date of Inspection

David Keil
Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☐ ☐ ☑ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☐ ☐ ☑ Stone is clean enough to effectively remove mud from vehicles.
☐ ☐ ☑ Installed per standards and specifications?
☐ ☐ ☑ Does all traffic use the stabilized entrance to enter and leave site?
☐ ☐ ☑ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☐ ☐ ☑ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☐ ☑ Joints constructed by wrapping the two ends together for continuous support.
☐ ☐ ☑ Fabric buried 6 inches minimum.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is 25 % of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Sediment traps in storm sewers require cleaning & maintenance. Traps are filling with sand and grass clippings. Contractor has been advised.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

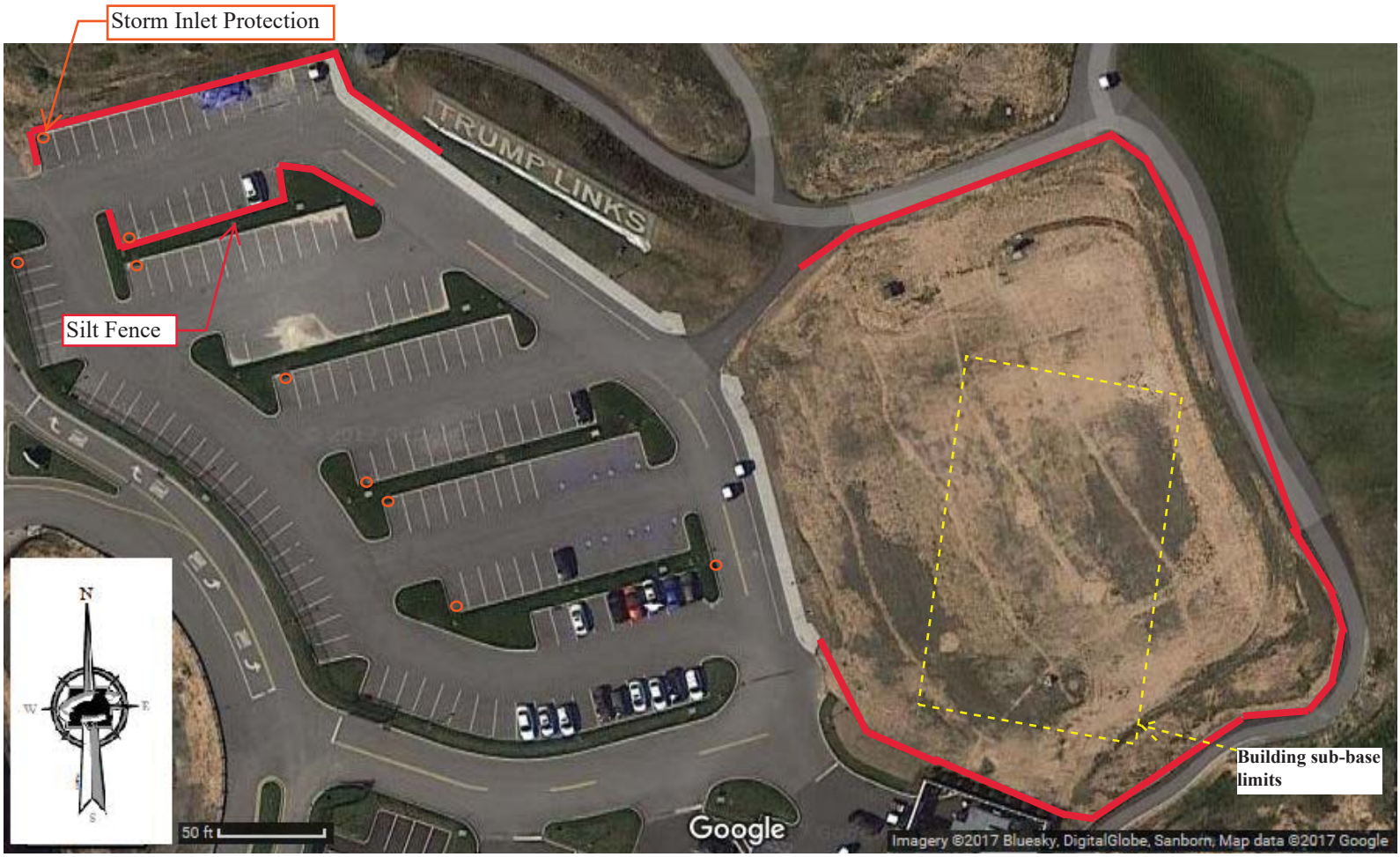

SITE PLAN/SKETCH

Dave Keil
Inspector (print name)

July 11, 2018
Date of Inspection

David Keil
Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☐ ☐ ☑ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☐ ☐ ☑ Stone is clean enough to effectively remove mud from vehicles.
☐ ☐ ☑ Installed per standards and specifications?
☐ ☐ ☑ Does all traffic use the stabilized entrance to enter and leave site?
☐ ☐ ☑ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☐ ☐ ☑ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☐ ☑ Joints constructed by wrapping the two ends together for continuous support.
☐ ☐ ☑ Fabric buried 6 inches minimum.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is 25 % of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Sediment traps in storm sewers require cleaning & maintenance. Traps are filling with sand and grass clippings. Contractor has been advised.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

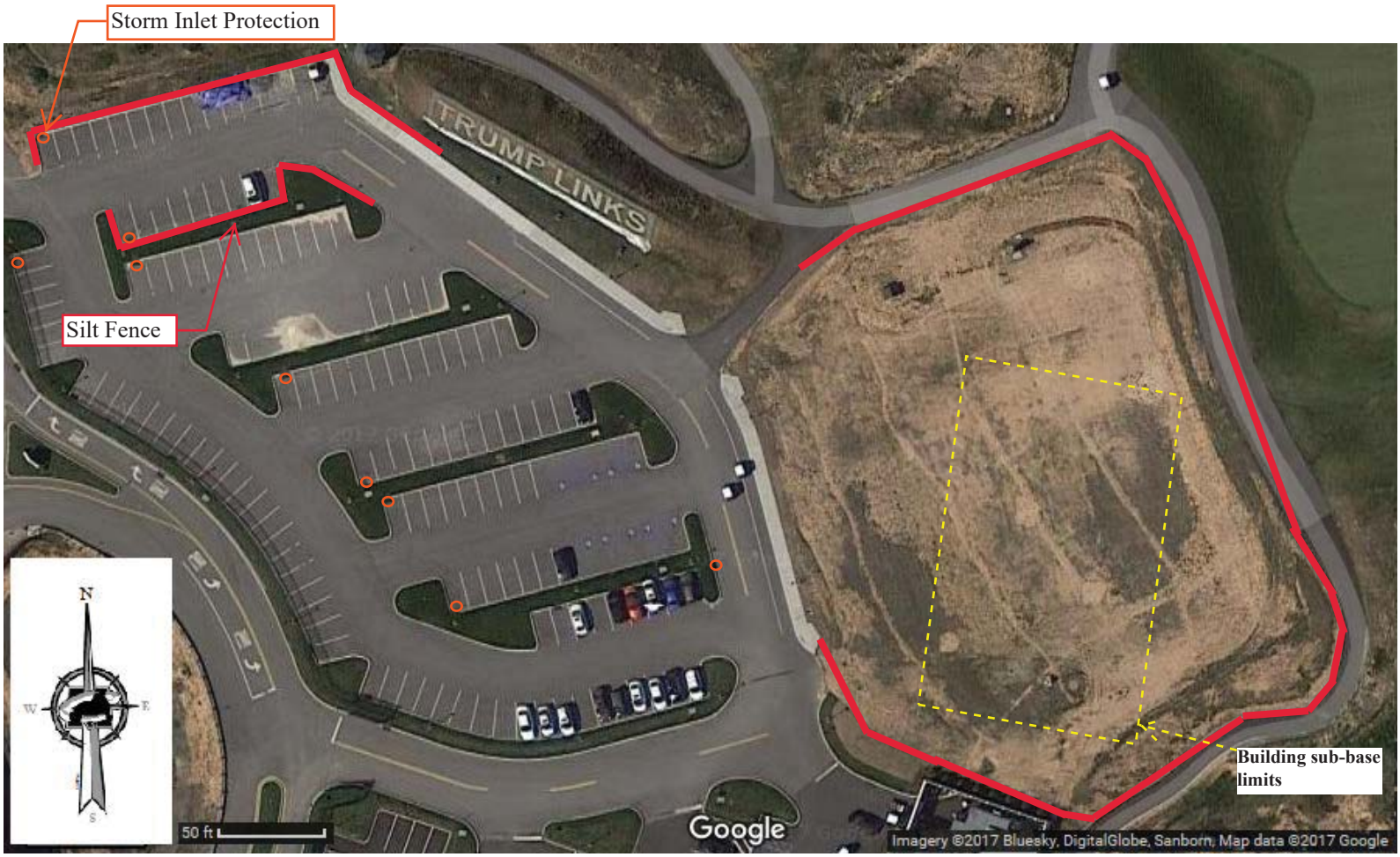

SITE PLAN/SKETCH

Dave Keil
Inspector (print name)

July 17, 2018
Date of Inspection

David Keil
Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☐ ☐ ☑ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☐ ☐ ☑ Stone is clean enough to effectively remove mud from vehicles.
☐ ☐ ☑ Installed per standards and specifications?
☐ ☐ ☑ Does all traffic use the stabilized entrance to enter and leave site?
☐ ☐ ☑ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☐ ☐ ☑ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☐ ☑ Joints constructed by wrapping the two ends together for continuous support.
☐ ☐ ☑ Fabric buried 6 inches minimum.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes	No	NA	
☐	☑	☐	Installed concrete blocks lengthwise so open ends face outward, not upward.
☐	☐	☑	Placed wire screen between No. 3 crushed stone and concrete blocks.
☑	☐	☐	Drainage area is 1acre or less.
☑	☐	☐	Excavated area is 900 cubic feet.
☑	☐	☐	Excavated side slopes should be 2:1.
☑	☐	☐	2" x 4" frame is constructed and structurally sound.
☑	☐	☐	Posts 3-foot maximum spacing between posts.
☑	☐	☐	Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☑	☐	☐	Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes	No	NA	
☐	☐	☑	Outlet structure is constructed per the approved plan or drawing.
☐	☐	☑	Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is 25 % of design capacity.

5. Temporary Sediment Basin

Yes	No	NA	
☐	☐	☑	Basin and outlet structure constructed per the approved plan.
☐	☐	☑	Basin side slopes are stabilized with seed/mulch.
☐	☐	☑	Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Sediment traps in storm sewers require cleaning & maintenance. Traps are filling with sand and grass clippings. Contractor has been advised.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

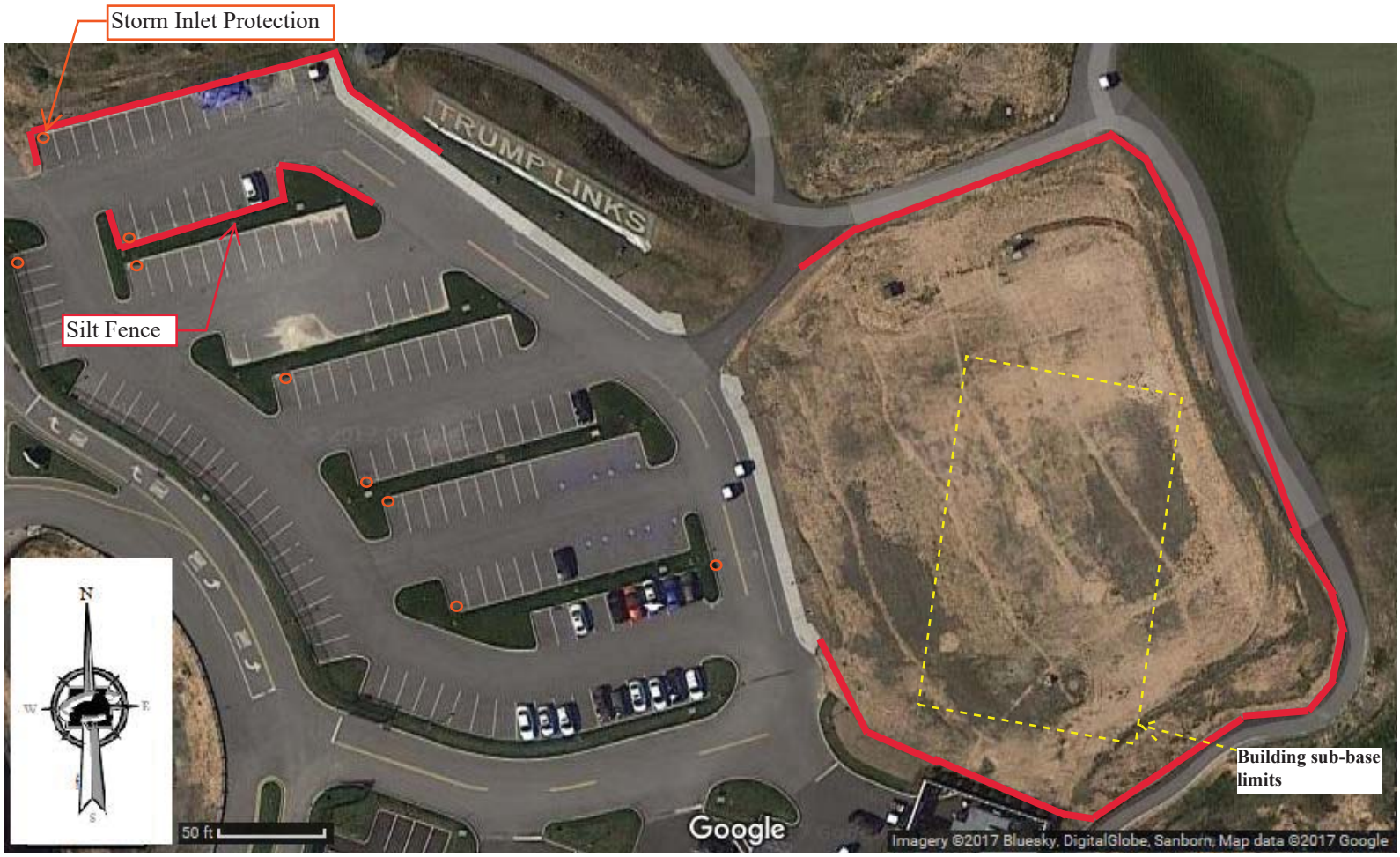

SITE PLAN/SKETCH

Dave Keil
Inspector (print name)

July 25, 2018
Date of Inspection

David Keil
Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☑ ☐ Stockpiles are stabilized with vegetation and/or mulch.
☐ ☐ ☑ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☐ ☐ ☑ Stone is clean enough to effectively remove mud from vehicles.
☐ ☐ ☑ Installed per standards and specifications?
☐ ☐ ☑ Does all traffic use the stabilized entrance to enter and leave site?
☐ ☐ ☑ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☐ ☐ ☑ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☐ ☑ Joints constructed by wrapping the two ends together for continuous support.
☐ ☐ ☑ Fabric buried 6 inches minimum.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is 0 % of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes No NA

☐ ☑ ☐ Installed concrete blocks lengthwise so open ends face outward, not upward.
☐ ☐ ☑ Placed wire screen between No. 3 crushed stone and concrete blocks.
☐ ☐ ☑ Drainage area is 1acre or less.
☐ ☐ ☑ Excavated area is 900 cubic feet.
☐ ☐ ☑ Excavated side slopes should be 2:1.
☐ ☐ ☑ 2" x 4" frame is constructed and structurally sound.
☐ ☐ ☑ Posts 3-foot maximum spacing between posts.
☐ ☐ ☑ Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes No NA

☐ ☐ ☑ Outlet structure is constructed per the approved plan or drawing.
☐ ☐ ☑ Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is 25 % of design capacity.

5. Temporary Sediment Basin

Yes No NA

☐ ☐ ☑ Basin and outlet structure constructed per the approved plan.
☐ ☐ ☑ Basin side slopes are stabilized with seed/mulch.
☐ ☐ ☑ Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

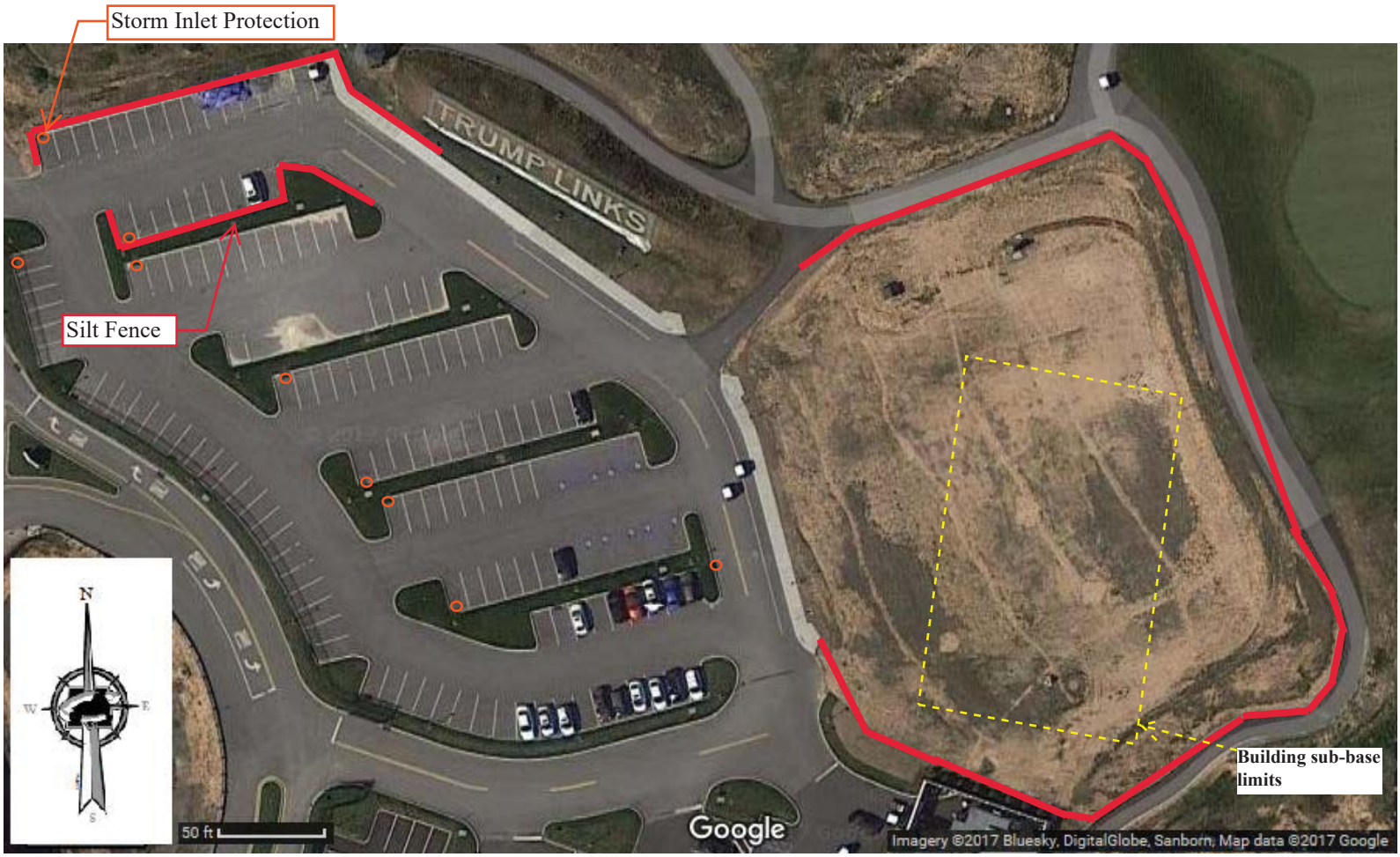

SITE PLAN/SKETCH

Dave Keil
Inspector (print name)

August 1, 2018
Date of Inspection

David Keil
Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☐ ☑ Stockpiles are stabilized with vegetation and/or mulch.
☐ ☐ ☑ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☐ ☐ ☑ Stone is clean enough to effectively remove mud from vehicles.
☐ ☐ ☑ Installed per standards and specifications?
☐ ☐ ☑ Does all traffic use the stabilized entrance to enter and leave site?
☐ ☐ ☑ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☐ ☐ ☑ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☐ ☑ Joints constructed by wrapping the two ends together for continuous support.
☐ ☐ ☑ Fabric buried 6 inches minimum.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes No NA

☐ ☐ ☑ Installed concrete blocks lengthwise so open ends face outward, not upward.
☐ ☐ ☑ Placed wire screen between No. 3 crushed stone and concrete blocks.
☐ ☐ ☑ Drainage area is 1acre or less.
☐ ☐ ☑ Excavated area is 900 cubic feet.
☐ ☐ ☑ Excavated side slopes should be 2:1.
☐ ☐ ☑ 2" x 4" frame is constructed and structurally sound.
☐ ☐ ☑ Posts 3-foot maximum spacing between posts.
☐ ☐ ☑ Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes No NA

☐ ☐ ☑ Outlet structure is constructed per the approved plan or drawing.
☐ ☐ ☑ Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is 25 % of design capacity.

5. Temporary Sediment Basin

Yes No NA

☐ ☐ ☑ Basin and outlet structure constructed per the approved plan.
☐ ☐ ☑ Basin side slopes are stabilized with seed/mulch.
☐ ☐ ☑ Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:
1. There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or
2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Sediment traps in storm sewers require cleaning & maintenance. Traps are filling with sand and grass clippings. Contractor has been advised.

Erosion and Sediment Control Inspection
Trump Golf Links at Ferry Point Park
500 Hutchinson River Parkway
Bronx, NY 10453

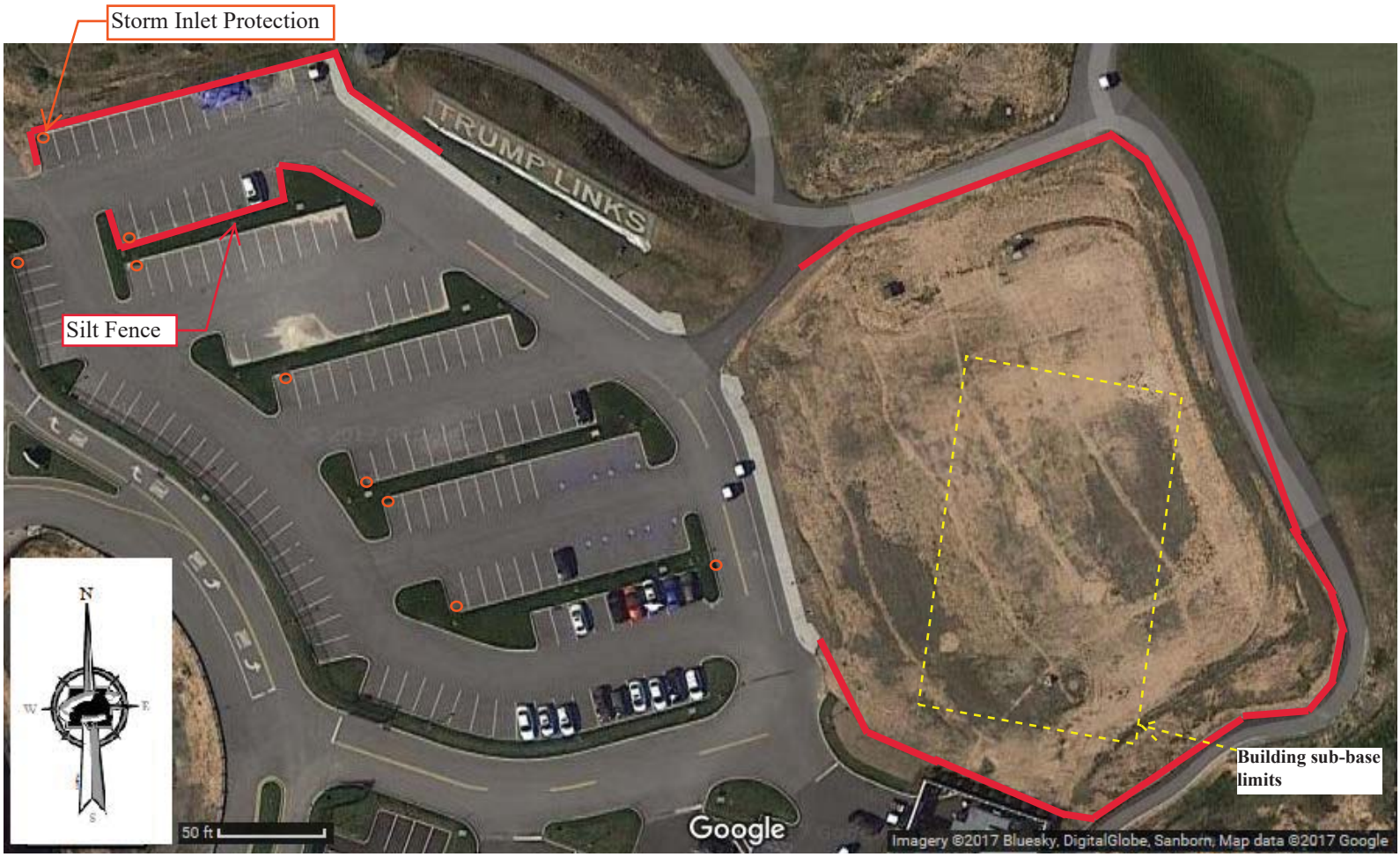

SITE PLAN/SKETCH

Dave Keil
Inspector (print name)

August 8, 2018
Date of Inspection

David Keil
Qualified Professional (print name)

Qualified Professional Signature

The above signed acknowledges that, to the best of his/her knowledge, all information provided on the forms is accurate and complete.

Maintaining Water Quality

Yes No NA
☐ ☐ ☑ Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
☐ ☐ ☑ Is there residue from oil and floating substances, visible oil film, or globules or grease?
☐ ☐ ☑ All disturbance is within the limits of the approved plans.
☐ ☐ ☑ Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions
Yes No NA
☑ ☐ ☐ Is construction site litter and debris appropriately managed?
☑ ☐ ☐ Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
☐ ☑ ☐ Is construction impacting the adjacent property?
☑ ☐ ☐ Is dust adequately controlled?

2. Temporary Stream Crossing
Yes No NA
☐ ☐ ☑ Maximum diameter pipes necessary to span creek without dredging are installed.
☐ ☐ ☑ Installed non-woven geotextile fabric beneath approaches.
☐ ☐ ☑ Is fill composed of aggregate (no earth or soil)?
☐ ☐ ☑ Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering
Yes No NA
☐ ☐ ☑ Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
☐ ☐ ☑ Clean water from upstream pool is being pumped to the downstream pool.
☐ ☐ ☑ Sediment laden water from work area is being discharged to a silt-trapping device.
☐ ☐ ☑ Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
☐ ☐ ☑ Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales
Yes No NA
☐ ☐ ☑ Installed per plan with minimum side slopes 2H:1V or flatter.
☐ ☐ ☑ Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
☐ ☐ ☑ Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS
Runoff Control Practices (continued)

4. Stone Check Dam
Yes No NA
☐ ☐ ☑ Is channel stable? (flow is not eroding soil underneath or around the structure).
☐ ☐ ☑ Check is in good condition (rocks in place and no permanent pools behind the structure).
☐ ☐ ☑ Has accumulated sediment been removed?.

5. Rock Outlet Protection
Yes No NA
☐ ☐ ☑ Installed per plan.
☐ ☐ ☑ Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles
Yes No NA
☐ ☐ ☑ Stockpiles are stabilized with vegetation and/or mulch.
☐ ☐ ☑ Sediment control is installed at the toe of the slope.

2. Revegetation
Yes No NA
☐ ☐ ☑ Temporary seedings and mulch have been applied to idle areas.
☐ ☐ ☑ 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

1. Stabilized Construction Entrance
Yes No NA
☐ ☐ ☑ Stone is clean enough to effectively remove mud from vehicles.
☐ ☐ ☑ Installed per standards and specifications?
☐ ☐ ☑ Does all traffic use the stabilized entrance to enter and leave site?
☐ ☐ ☑ Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence
Yes No NA
☐ ☐ ☑ Installed on Contour, 10 feet from toe of slope (not across conveyance channels).
☐ ☐ ☑ Joints constructed by wrapping the two ends together for continuous support.
☐ ☐ ☑ Fabric buried 6 inches minimum.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.
Sediment accumulation is ___% of design capacity.

Sediment Control Practices (continued)

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices)

Yes No NA

☐ ☐ ☑ Installed concrete blocks lengthwise so open ends face outward, not upward.
☐ ☐ ☑ Placed wire screen between No. 3 crushed stone and concrete blocks.
☐ ☐ ☑ Drainage area is 1acre or less.
☐ ☐ ☑ Excavated area is 900 cubic feet.
☐ ☐ ☑ Excavated side slopes should be 2:1.
☐ ☐ ☑ 2" x 4" frame is constructed and structurally sound.
☐ ☐ ☑ Posts 3-foot maximum spacing between posts.
☐ ☐ ☑ Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8-inch spacing.
☐ ☐ ☑ Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ___% of design capacity.

4. Temporary Sediment Trap

Yes No NA

☐ ☐ ☑ Outlet structure is constructed per the approved plan or drawing.
☐ ☐ ☑ Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is 25 % of design capacity.

5. Temporary Sediment Basin

Yes No NA

☐ ☐ ☑ Basin and outlet structure constructed per the approved plan.
☐ ☐ ☑ Basin side slopes are stabilized with seed/mulch.
☐ ☐ ☑ Drainage structure flushed and basin surface restored upon removal of sediment basin facility.

Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.
Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

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2. The SWPPP proves to be ineffective in:
   a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
   b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and
3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

Sediment traps in storm sewers require cleaning & maintenance. Traps are filling with sand and grass clippings. Contractor has been advised.

APPENDIX I

DORs for New Clubhouse Construction

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy/Slight Sun and wind** **Humidity**

Date: July 19, 2017 **Time: 0700** **Temp: 80-90** °F High Med Low

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Trump Construction

Active Site Work Areas: Sonotube installation.

Site Work Progress: An approximately 5' x 5' x 6' deep hole was dug for the installation of a Sonotube Security Camera towards the northeastern bounds of the Trump Golf Links golf course. Soil from the camera location (cover and shaping) was placed separately (cover material placed in one stockpile; shaping material in a separate stockpile) and on top of plywood. In addition a 2' x 60' x 2' trench was cut from the Sonotube location to a nearby "hotbox" in order to power the camera.

The shaping layer soil was marked by a demarcation layer prior to stockpiling. The orange snow sheeting was cut out with a box cutter and the shaping layer was dug out. To avoid hitting a fiber optic electrical line, the area was hand dug with shovels until the line was located.

The two separate stockpiles along the Sonotube location and trench (cover and shaping) were covered with tarps and anchored with surrounding rocks after soil disturbance was complete.

Remarks: Two locations are proposed to have the security cameras installed. The first location is outlined in today`s report in the north east outer limits of the golf course. The second location is proposed to be towards the north western limits of the golf course property and will be solar powered rather than powered by the "hotbox".

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato **Reviewed By:**
Date:

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Sonotube location (Cover layer to the left on plywood, shaping layer to the right on plywood).

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Both cover and shaping layer soil tarped after soil disturbance activities.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Cloudy/Slight Sun and wind** **Humidity**

Date: July 20, 2017 **Time: 0700** **Temp: 90-100** °F High Med (Low)

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Trump Construction

Active Site Work Areas: Sonotube Installation.

Site Work Progress: Two conduit PVC 40 pipes (1" dia.) were placed in the trench from the previous day (roughly 60' long). Pipes were spread out in the trench as to reduce interference from each line.

The pipes were fitted with elbows into the "hotbox" and had caution tape placed over them. The pipes were then covered with surrounding shaping layer material and the demarcation boundary re-established. The trench was backfilled with surrounding cover layer material.

Caution tape was also placed on top of the fiber optic cable as a demarcation barrier/caution warning to future excavators.

Remarks: Shaping layer material was covered overnight and anchored with a tarp to eliminate disturbance.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato **Reviewed By:**
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Trench going into hotbox, demarcation layer shown.

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PVC piping going from the hotbox to the Sonotube location.

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Trench was backfilled after the electrical conduit installation was completed. Remaining shaping soil (right side on plywood) redistributed next to Sonotube location (North). Capped with 1.5 feet of cover soil.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sun and Slight wind** **Humidity**

Date: Trump Golf Links **Time: 0700** **Temp: 90-100** °F High Med Low

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Removal and stockpile of Cover layer in proposed building location

Site Work Progress: Cover layer soil was excavated within the building location. Soil was stockpiled on the construction site at first until approval by DEC was met. Once approved, soil was transferred to the back parking lot on top of clear polyethylene sheeting.

Remarks: Soil was scanned with a PID after being transferred off site. No detection above regulatory limits was found. Careful attention by the excavator was paid as to not cross contaminate the cover with shaping. Clean fill manifests were supposedly brought in for the soil.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunaato

Reviewed By:
Date: 7/21/2017

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU (SA circled)

Weather: Sun and Slight wind

Humidity High Med Low (Low circled)

Date: Trump Golf Links **Time: 0700**

Temp: 85-95 °F

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Removal and stockpile of Cover layer in proposed building location

Site Work Progress: Additional cover layer soil was moved to stockpile site. Soil was prepared as to comply with soil and erosion control plans. Haybales and drainage prevention systems were installed and a tarp with anchors (sandbags) placed on top. Asphault over the top of the golf cart roadway was broken up and stockpiled within the construction area.

Remarks: No detection above regulatory limits was found in scanning the soil.

Site Photographs: Yes (Yes circled) No

Additional Action Required by Project Mgr. or Eng.:

YES NO (NO circled)

Observed By: John Fortunato

Reviewed By:
Date: 7/22/2017

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100 American Metro Blvd., Suite 152
Hamilton, NJ 08619
Tel: 609.587.8200 ▪ Fax: 609.587.8260

DAILY FIELD OBSERVATION REPORT

M T W TH F SA SU

Date: 7/24/2017 **Time:** 0645

Weather: RAIN/WIND **Wind:** GUSTY

Temp: 65-70°

Humidity High Med Low

Name of Project: TRUMP LINKS

Municipality: BRONX, NY

Job No: 17007426A

Site Contractors: TSC

Active Site Work Areas:

EXCAVATION OF ELECTRICAL CONDUITS AT THE TO-BE-CONSTRUCTED TRUMP LINKS CLUB HOUSE

Site Work Progress:

APPROXIMATELY 150 LINEAR FEET OF ELECTRICAL CONDUIT WAS EXPOSED ALONG THE EASTERN SIDE OF THE CONSTRUCTION AREA.

Remarks:

HEAVY RAINS ON THE MORNING DELAYED WORK TO SOME DEGREE - BUT MEASURABLE PROGRESS WAS MADE BY DAY'S END.

NO DEMARCATION LAYER OR WASTE WAS ENCOUNTERED DURING THE EXCAVATION. PERIODIC AIR MEASUREMENTS DID NOT DETECT ANY LANDFILL GASES.

ALL WORK PERFORMED TODAY WAS DONE IN COMPLIANCE WITH ESTABLISHED GUIDELINES & PROTOCOLS

Site Photographs: YES

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: D. KELL

Reviewed By:

Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sun and Slight wind** **Humidity**

Date: July 25, 2017 **Time: 0700** **Temp: 70-80** °F High Med Low

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Excavation of existing underground electrical conduits, Trenching of new electrical conduits, spreading of Aeration core piles into non-play areas.

Site Work Progress: Roughly 100 ft. of underground electrical conduit was exposed from the eastern trench to the current clubhouse/office building in the construction site. A similar trench was excavated along the outer limits of the current conduit trench, with the exception of the eastern side which expanded over the former asphalt golf cart roadway. Two parallel PVC pipes (4" dia.) for the electrical conduits were then laid in the outer trench. Silt fencing along the lower elevation limits was trenched as to have 6" of fencing in the ground, preventing erosion/ runoff. The upgradient area of the aeration piles was excavated and aeration soil was distributed behind Hole 18 in a non-playing area of the golf course.

Remarks: Water accumulated towards the center of the construction area from the previous rain event. JCS proposes to dig the soil with the water and see if there is recharge. If recharge occurs-against expectation, water will be pumped and containerized in advance of off-site disposal at an approved facility.

No detection from the down-wind gas monitor was seen, with the exception of % oxygen which peaked at 21.7% (up from 20.9). PID readings were found from 10:00 to 10:30 am around the perimeter of the excavation at 0.8 ppm (average) and 2.5 ppm (peak). Readings inside the trailer were found 0.0 ppm and the PID was recalibrated inside the trailer. No odor was observed on site and readings returned to 0.0 ppm after 10:30 am; humidity may have affected PID. Silt fencing was installed between the aeration core and hole 18.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato **Reviewed By:**
Date:

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Photo 1: Rain water accumulation towards southern and center construction area (Blue marking indicates water utility, Pink marking indicates axis line).

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Photo 2: Silt fencing lower elevation towards parking lot of construction area (Lower half trenched).

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Photo 3: New conduit trench (40 PVC 4" dia. Piping) located in northeastern side.

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Photo 4: Existing conduit (40 PVC 4" dia. Piping) located in south eastern side.

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Photo 5: Aeration core pile (facing East).

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Photo 7: Aeration core pile (facing West). Bottom of pile noted by soil color and characteristic change (right), remaining aeration pile (left).

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T (W) TH F SA SU **Weather: Sun and Slight wind** **Humidity**

Date: July 26, 2017 **Time: 0700** **Temp: 70-80** °F High Med (Low)

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, Trump Construction

Active Site Work Areas: Accumulation of trenching and cover soil stockpile, Trenching of proposed electrical conduits, Aeration pile excavation and stockpiling in non-play area behind Hole 18.

Site Work Progress: Brown fine-course sand from the proposed conduit trench at the southern end of the construction area and soil from the cover layer stockpile was moved to the north-eastern end. PVC 40 (4" dia.) piping was installed along the eastern and southern reaches of the conduit trench. Roughly 4 – 6" of excavated soil (shaping and cover layer materials) around the trench was placed on top of the conduit piping and electrical warning label tape was placed on top. Aeration core stockpiling continued behind Hole 18. Roughly 1/4 of the pile up gradient of the aeration pile was hauled with two alternating John Deere tractors piling roughly 3' high, silt fenced at the stockpile location. Trenching for new conduit moved roughly 10' south into asphalt. Asphalt stockpile moved north roughly 25' (see Photo #3).

Remarks: Rain water accumulation from the previous storm event was trenched to act as a retention basin. Bulk of the water mass either percolated through soil or evaporated (no recharge). Fencing towards the southern part of the construction area was offset roughly 10' in order to follow site construction plans and allow for trenching next to office building. Silt fencing in this area was reinstalled on the outer temporary fencing side (asphalt blocking inside) and anchored with sandbags.

No detections from the PID or gas monitor were encountered throughout the day, with the exception of oxygen at 20.5% (down from 20.9).

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By: Dave Keil
Date: 7/27/2017

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Photo 1: Aeration core soil stockpile (located in non-playing behind Hole 18). Silt fence is trenched (6" of fence in ground).

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Photo 2: Red warning label tape placed on top of electrical conduit location.

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Photo 3: Brown fine to course sand from new conduit trenching (upper right) and cover sand from July 19-20 stockpile middle stockpiled in northeast corner of site. Asphalt stockpile moved north of previous location (left).

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Photo 4: New electrical conduit trench into asphalt located in southern construction area (near Office/current club building)

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Sun and Slight wind** **Humidity**

Date: July 27, 2017 Time: 0700 **Temp: 70-80 °F** (High) Med Low

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Stockpiling of soil, Trenching and installation of new electrical conduits, Pile driving preparation.

Site Work Progress: New electrical conduit piping in the vicinity of the existing club house building was completed. Warning label tape was placed on top of the 40 PVC (4" dia.) electrical conduit. Trench was later backfilled with original cover material. Electrical wiring was installed through the conduit piping. Shaping layer soil was stockpiled to roughly 20'. Sediment and erosion control plans are proposed to be installed for the stockpile (silt fence, tarped, etc.) once the pile is completely gathered. The "Septic box" was prepared to be relocated away from pile driving activities (disconnection of PVC piping and wiring). Pile driving locations were leveled to grade as needed and marked out. Soil from the piles was gray fine to course sand with rock fragments and moved next to shaping layer stockpile.

Remarks: Rain water accumulation from the previous storm event lowered about 7-9". High humidity throughout the day resulting in a "spotty" PID; readings fluctuated from 3-10 ppm on and off site. No gas detections were made throughout the day. Conduit piping openings were covered with duct tape to prevent water infiltration. PVC 40 (3" dia.) drainage lines into the septic tank were broken when attempting to locate the lines. Water accumulation from the line was drained back into the septic box. Repairs to be made.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato **Reviewed By:**
Date:

Customer Loyalty *through* Client Satisfaction

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Photo 1: Broken PVC 40 drainage line going into "Septic Box" to be removed.

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Photo 2: Conduit trenching pipe going into existing club house-- to be connected.

Photo 3: Pile driving location pit.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: Sun and heavy fog** **Humidity**

Date: July 28, 2017 Time: 0700 **Temp: 70-80** °F (High) Med Low

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, Trump Construction

Active Site Work Areas: Construction site for proposed new Club House; soil stockpiling in parking area.
Activities included: Grading in construction area; stockpiling of shaping material in the parking area with erosion controls; stockpiling of co-mingled material with erosion controls; stockpiling of aeration cores with controls and removal of septic box.

Site Work Progress: Shaping layer soil was stockpiled in the back parking lot from grading activities taking place to the southeast. Sheeting and silt fencing was installed prior to soil stocking. Sheeting was placed over the concrete curb with silt fencing underneath and anchored with large rocks on top. The stock pile lies next to the cover layer material pile with no observable cross-contamination or co-mingling of materials. Stockpiles are to be covered with a tarp, anchored with sand bags, and have hay bales surrounding them once completed. Drainage and erosion controls are in place. Brown shaping soil derived from "Septic" box removal was added to the stockpile on the construction site. The stockpile will have a silt fence surrounding it and either tarping or seeding once stockpiling is complete. Roughly half of the aeration core material has been relocated to the nearby placement location. Odors are very potent in the aeration pile location and aeration stockpile area. A PID peak reading 12.7 ppm (Likely due to humidity).

Remarks: Very high humidity and heavy fog; PID not working properly even with hydrophobic filter. Some rain water accumulation from the previous storm event remains in the construction area. PID is calibrated every morning within the JCS construction trailer with Isobutylene (100 ppm). Trevor from Woodard and Curran recommended using a newer model such as the MiniRAE 3000, as it is less sensitive to moisture. Large boulders (4' dia.) were encountered during the grading activities. These will be segregated and stockpiled in the construction area until removed from site.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato **Reviewed By:**
Date:

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Photo 1: Septic-box trenching for relocation. Temporary PVC attached to broken off end. Surrounding water body assumed to be municipal discharge.

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Photo 2: Shaping layer soil stockpile in back of parking lot. Cover material stockpile next to it (blue tarping), shaping material will be covered with blue tarping, and anchored with sandbags.

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Photo 3: Grading of construction site. Shaping layer soil gathered to the right is moved to Photo 2 location.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sun, slight wind** **Humidity**

Date: July 31, 2017 **Time: 0700** High Med Low

Temp: 70-80 °F

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G, Trump Construction, GZA Environmental, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Club House

Activities included: PDA Test Pile Driving, Shaping layer stockpiling in construction area; Asphalt stockpiling away from backfill materials; stockpiling of aeration cores with controls and removal of septic box.

Site Work Progress: Shaping layer on the eastern bounds of the construction site was stockpiled as depicted in Photo # 4. Soil in this area had trace amounts of construction material such as rebar, blasting rope/materials and scrap metal. These types of materials were previously noted in a meeting from July 17, 2017 that they may be encountered. A water tight roll off was ordered to store any municipal solid waste that may be encountered. The shaping layer stockpile was spread-out (lowered) so as not to exceed the height of the construction fence and to minimize to migration of sediments that could potentially be transported by high winds.

PDA test piles were installed to a depth of 70'. Steel beams were roughly 40' length wise and were welded throughout the interlocking joints. In-between welds, the breathing zone area was scanned with a PID MiniRAE 2000 showing 0.0 ppm for all piles. For additional safety, a MAXX AIR PRO portable fan was set up as an engineering control to vent any gases arising from the piles.

Leftover asphalt from new electrical conduit trenching activities was stockpiled from stockpiled soil. Asphalt is being temporary staged prior to off-site disposal.

Aeration core stockpiling continued with about half of the pile remaining. Some odors were detected but a scan on the area with the PID/gas detectors indicated no sustained readings. The PID MiniRAE 2000 showed 0.0 ppm. Test Drive Piling began with gas monitoring and engineering controls throughout the process.

Remarks: Low humidity; PID working properly. PID readings of about 0.7 ppm were encountered during disturbance of the shaping layer with construction debris around 13:50 to 14:00. PID readings were not detected throughout the day. A newer model such as the MiniRAE 3000 was proposed to be ordered for better PID readings. Gas monitoring indicated that oxygen sporadically increased to 23.0% (up from 20.9%).

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

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Observed By: John Fortunato

Reviewed By:
Date:

Photo 1: Temporary Asphalt Stockpile location (~3 yards of Asphalt).

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Photo 2: Electrical conduit next to Septic-Box location (4" dia. PVC 40 Piping).

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Photo 3: PDA Test Pile Driving setup (P-46 Pile). Fan placed next to welder for H&S.

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Photo 4: Co-mingled (Shaping and Cover soil) on-site stockpile location.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU (T circled)

Weather: Sun, slight wind

Humidity High Med Low (Med circled)

Date: August 1, 2017 Time: 0700

Temp: 70-85 °F

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G, Trump Construction, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Club House

Activities included: Pile driving and welding of steel beams. Soil and erosion control plans for co-mingled soil stockpile on site. Aeration core stock piling

Site Work Progress:

Twelve piles were driven to a depth of about 35'. Of those twelve, seven were welded and driven to about 70'. Steel beams were roughly 40' length wise and were welded between the interlocking wedge plates of each beam and across the flange. Before welding, the piles were monitored at ground surface elevation (without ventilation fan) with a 4-gas MiniRAE Meter. If no detections were found above the Lower Explosive Limit (LEL) for methane gas (determined by OSHA), welding was deemed safe and a Maxx Air Pro industrial fan was placed next to the base of the beam and turned on for additional safety. Industrial fire safety equipment (fire extinguisher) is present near driving piles.

A silt fence was installed around the co-mingled soil stockpile and trenched (6" of fence in the ground). Tarping/seeding is proposed to be placed on top of the pile within the week.

Aeration core stockpiling continued. About of 1/3 of the pile remains.

Remarks: PID hits were detected during marking activities (spray paint). Gas meter detections were found for carbon monoxide (32 ppm peak) during welding activities (attributed to exhaust fumes from the welder itself). Oxygen content was found to increase to 21.4% (up from 20.9%) from 12:00 to 13:00.

Site Photographs: Yes (Yes circled) No

Additional Action Required by Project Mgr. or Eng.:

YES NO (NO circled)

Observed By: John Fortunato

Reviewed By:
Date:

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Photo 1: Air monitoring setup during pile driving.

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Photo 2 : Location of gas monitoring before welding (fan not turned on).

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Photo 3: Silt fence for co-mingled stockpile (trenched in 6").

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sun, slightly cloudy** **Humidity**

Date: August 2, 2017 Time: 0700 **Temp: 70-85 °F** High Med Low

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G, Trump Construction, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Club House

Activities included: Pile driving and welding of steel beams. Aeration core stock piling.

Site Work Progress:

Twelve piles were driven to a depth of about 35'. Of those twelve, seven were welded and driven to about 70'. Steel beams were roughly 40' length wise and were welded between the interlocking wedge plates of each beam and across the flange. Before welding, the piles were monitored with the four-gas meter as per protocol. The ventilation fan was not in use during the monitoring. During welding activities that fan was utilized for an added measure of safety.The 4-gas MiniRAE Meter was mounted to a PVC pipe and placed next to the pile during all welding and driving. Industrial fire safety equipment (fire extinguisher) is present near driving piles.

Remarks: Grindings and cuttings from beams tended to hit the 4-gas monitor. To protect the instrument, the meter was placed in a protected position with the tubing extending into the pile hole. The gas monitor was then observed from a safe distance with a set of binoculars. Hydrogen sulfide and LEL were found in low concentrations briefly when grindings hit the monitor of 0.8 ppm and 2% (Not high enough to trigger alarm systems).

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato **Reviewed By:**
Date:

Customer Loyalty *through* Client Satisfaction

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Photo 1: Setup of fan, monitor, and fire extinguisher during all grinding and welding. (Note: Monitor mounted onto PVC joint. Construction tile was laid on top to protect the meter from welding sparks/cuttings).

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Photo 2: Gas monitor, fan, and fire extinguisher set up during pile driving. (Note; Fire extinguisher not shown in photo.)

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Sunny, slightly cloudy** **Humidity**

Date: August 3, 2017 Time: 0700 **Temp: 70-85** °F (High) Med Low

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G, Trump Construction, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Club House, Aeration core piling behind Hole 18

Activities included: Pile driving and welding of steel beams. Aeration core stock piling.

Site Work Progress:

Nine piles were driven to depth a depth of roughly 40' and four piles were driven to roughly 70'. Before welding, the piles were checked at the inlet (ground surface elevation) with a 4-gas MiniRAE Meter. If no alarms were triggered by the meter, an industrial fan was turned on, pointed towards the pile location, and welding was conducted. The meter alarm is triggered if concentrations of the carbon monoxide, hydrogen sulfide, oxygen, and methane are above OSHA exposure limits. The 4-gas MiniRAE Meter was mounted to a PVC pipe and placed next to the pile during all welding and driving. A piece of construction debris was laid on top of the meter to prevent damage from welding activities. A fire extinguisher was present near driving piles.

Aeration core stockpile relocation was completed and grass seeding was placed over the old stockpile location. The new stockpile location (Behind Hole 18) was roughly 8' high and 100' in length.

Small asphalt pile still remains on-site, bulk majority was disposed of off-site when the asphalt was originally broken up.

Remarks: No alarms were triggered with the exception of carbon monoxide early in the day. Closer investigation of OSHA Permissible Exposure Limits (PEL) indicated that 200 ppm was the recommended PEL for carbon monoxide. Inspection of the meter determined that the PEL was actually set to the Time Weighted Average (TWA) of 35 ppm. The 4-gas meter alarm was thus changed to the correct 200 ppm alarm limit for carbon monoxide. No alarm triggers occurred after this. Hydrogen sulfide was detected at a peak 1.2 ppm during the pile driving, below all OSHA exposure limits.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato **Reviewed By:**
Date:

Customer Loyalty *through* Client Satisfaction

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Photo 1: Setup of fan, monitor, and fire extinguisher during all grinding and welding. Same setup for driving without

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industrial fan. (Note: Monitor mounted onto PVC joint. Construction debris laid on top to avoid damage to 4-gas Meter.)

Photo 2: Form Aeration Core location. (Note: Grass seeding applied).

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Photo 3: Completed aeration core stockpile behind Hole 18. (Note: Non-playing).

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: Thunderstorms, Sunny & slightly cloudy** **Humidity**

Date: August 4, 2017 Time: 0700 **Temp: 70-85** °F (High) Med Low

Name of Project: Trump Golf Links **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Club House

Activities included: Pile driving and welding of steel beams.

Site Work Progress:

Nine piles were driven to their completion depths of roughly 70'. Before welding, the piles were checked at the inlet (ground surface elevation) with a 4-gas MiniRAE Meter. The 4-gas MiniRAE Meter was mounted to a PVC pipe and placed next to the pile during welding and pile driving. The 4-gas MiniRAE Meter was calibrated in the field successfully. A piece of construction debris was placed on top of the meter to prevent damage from welding activities. A fire extinguisher was present near pile driving and welding activities. The meter alarm is triggered if concentrations of the carbon monoxide, hydrogen sulfide, oxygen, and methane are above OSHA exposure limits; the alarm was not triggered for these four gases during today's activities. Since no alarms were triggered by the meter, an explosion-proof? industrial fan was turned on, pointed toward the pile location, and welding was conducted.

Approximately xx tons (truckloads?) of cover material was excavated and transported to its dedicated stockpile area. Approximately yy tons (truckloads?) of shaping material was excavated and transported to its dedicated stockpile area.

Remarks: Thunderstorms occurred early in the morning in the morning from 7:00 to 9:30, no piles were driven during this time. After the thunderstorms passed, conditions were sunny with some clouds. Large pools of water (from the storm event) remained on site. Silt fencing was inspected for the cover and shaping material stockpiles and the perimeter of the construction site with no soil visibly penetrating the haybale barriers.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato **Reviewed By:**
Date:

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Photo 1: Piles driven (water pools from morning storm event)

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Photo 2: Silt fence around on-site co-mingled stockpile (no soil escaping barrier).

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Rain, light to heavy** **Humidity**

Date: August 7, 2017 Time: 0700 **Temp: 70 °F** High Med Low

Name of Project: Trump Golf Links – Ferry Point Park Municipality: Bronx, NY Job No: 17002426A

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams

Site Work Progress:

Four piles were driven to their completion depths of approximately 75 feet, three piles were driven to their intermediate depths of approximately 40 feet, and six completed pilings were cut to grade by the welder. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas MiniRAE Meter. The 4-gas MiniRAE Meter was mounted to a PVC pipe and placed next to the pile during welding and pile driving. A piece of construction debris was placed on top of the meter to prevent damage from welding activities. A fire extinguisher was present near pile driving and welding activities and a fan was turned on, aimed at the active piling. The meter alarms is triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are above OSHA exposure limits; the alarm was not triggered for these four gases during today's activities.

Remarks: Rain was light to heavy for this workday, and site activities (including pile driving and cutting) concluded at 1400. Silt fencing and haybales were observed for the stockpiles and the perimeter of the construction site with no soil visibly penetrating the barriers.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Don Bowman Donald Bowman

Reviewed By:
Date:

Customer Loyalty *through* Client Satisfaction

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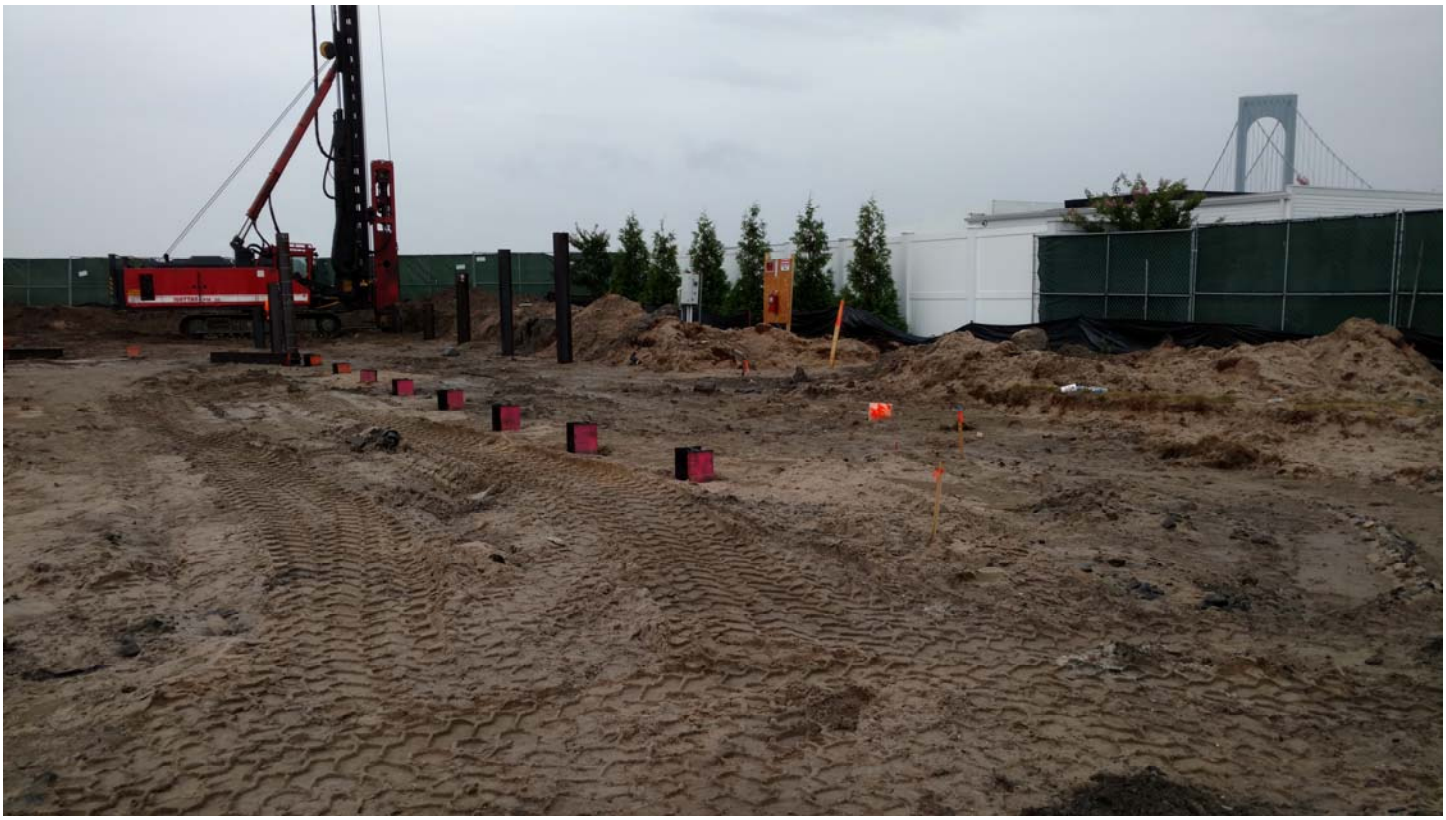

View of site at conclusion of workday showing piles driven (background) on 08/07/2017

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU (T circled)

Weather: Overcast, mostly cloudy

Humidity High Med Low (High circled)

Date: August 8, 2017 Time: 0700

Temp: 67 °F

Name of Project: Trump Golf Links – Ferry Point Park Municipality: Bronx, NY Job No: 17002426A

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams

Site Work Progress:

11 piles were driven to their completion depths of approximately 75 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas MiniRAE Meter. The 4-gas MiniRAE Meter was mounted to a PVC pipe and placed next to the pile during welding and pile driving. A piece of construction debris was placed on top of the meter to prevent damage from welding activities. A fire extinguisher was present near pile driving and welding activities and a fan was turned on, aimed at the active piling. The meter alarms is triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are above OSHA exposure limits; the alarm was not triggered for these four gases during today's activities.

Remarks: Site activities (including pile driving and cutting) concluded at 1630. Silt fencing and haybales were observed for the stockpiles and the perimeter of the construction site with no soil visibly penetrating the barriers.

Site Photographs: Yes (Yes circled) No

Additional Action Required by Project Mgr. or Eng.:

YES NO (NO circled)

Observed By: Eric Sergent

Reviewed By: Donald Bowman
Date: 08/09/2017

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View #1 of site showing piles driven on 08/08/2017

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View #2 of site showing piles driven on 08/08/2017

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny and slightly cloudy** **Humidity**

Date: August 9, 2017 Time: 0700 High Med Low

Temp: 70 - 80 °F

Name of Project: Trump Golf Links – Ferry Point Park Municipality: Bronx, NY Job No: 17002426A

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams

Site Work Progress:

Seven piles were driven to their completion depths of approximately 75 feet and three completed pilings were cut to grade by the welder. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter II. The 4-gas Q RAE II Meter was mounted to a PVC pipe and placed next to the pile during welding and pile driving. A piece of construction debris was placed on top of the meter to prevent damage from welding activities. A fire extinguisher was present near pile driving and welding activities and a fan was turned on, aimed at the active piling. The meter alarms is set to trigger if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are above OSHA exposure limits; the alarm was not triggered for these four gases or on the PID during today's activities.

Remarks: The Q RAE II gas meter and he MiniRAE 2000 PID were calibrated and used prior to welding and pile driving as an added measure of safety. A new Q RAE III gas meter was delivered from Pine Environmental LLC and switched with the old Q RAE II meter at 14:30. The new meter was calibrated on site and placed with the same setup as the Q RAE II (PVC joint mounted with cover for protection).

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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View of monitor setup while Q RAE II was switched with Q RAE III and calibrated (0.0 ppm on PID in PVC pipe).

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny, semi-cloudy** **Humidity**

Date: August 11, 2017 Time: 0700 – 17:00 High Med Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park Municipality: Bronx, NY Job No: 17002426A

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams

Site Work Progress:

Ten piles were driven to their completion depths of approximately 75 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. The 4-gas Q RAE III Meter was used to scan the piles prior to welding and placed next to the pile if gas concentrations didn`t trigger any alarms. A piece of construction debris was placed on top of the meter to prevent damage from welding activities. A fire extinguisher was present near pile driving and welding activities and a fan was used to ventilate the area during welding/driving. The meter alarms is triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are above OSHA exposure limits; the alarm was not triggered for these four gases or on the PID during today's activities.

Remarks: The survey markings for pile P-213 couldn`t be located, measurements were estimated by Byan`s Quality Plus personnel. No utilities were hit during the driving. Piles that were cut to grade by the welder were stockpiled next to the asphalt stockpile location.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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View of monitor setup with Q RAE III 4-gas meter.

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Steel beam cuts stockpile location (next to asphalt stockpile).

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny, cloudy later in day** **Humidity**

Date: August 14, 2017 Time: 0700 – 17:00 High Med Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park Municipality: Bronx, NY Job No: 17002426A

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete perimeter preparation

Site Work Progress:

Ten piles were driven to their completion depths of approximately 75 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. A piece of construction debris was placed on top of the meter to prevent damage from welding activities. A fire extinguisher was present near pile driving and welding activities and a fan was turned on, aimed at the active piling during welding. The meter alarms are triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are above OSHA exposure limits. The alarm was triggered for pile P-155, with 51% LEL for methane towards the end of the work day. This pile was driven down to roughly 37' and no welding was done on it. The pile was labeled "CAUTION METHANE" and welders were informed not to work on it. The pile will be rescanned with the 4-gas meter before any further work resumes. Work will only be allowed if safe conditions are re-established.

Remarks: A water line leading into the temporary clubhouse building was cracked during trenching for new clubhouse concrete perimeter. Water was determined to be clean municipal water which was pumped onto a grassy area next to the temporary clubhouse on-site. The leak has been fixed.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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View of Pile Driving progress and concrete perimeter setup.

Water pipe leakage going into temporary clubhouse.

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Pile P-155 detected for methane and labeled with CAUTION. No welding was done, the pile will be rescanned following day.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny and slightly cloudy, Rainy later in day** **Humidity**

Date: August 15, 2017 Time: 0700 – 16:45 High Med Low

Temp: 70 - 80 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation

Site Work Progress:

Two piles were driven to their completion depths of approximately 75 feet, ten piles were cut to grade level, and 2 piles were driven halfway to the completion depth of approximately 37'. Before welding/cutting, the piles were monitored at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. Welding is not permitted when combustible gases are present. As an added measure of safety, any space between the pile and the surrounding soils was filled and foot-tamped to eliminate any open pathways. In addition—as an engineering control, the fan was used to ventilate the immediate area and to dissipate any potential vapors. A fire extinguisher was also present. The meter alarms are set to trigger if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are measured above OSHA exposure limits. At two pile locations, the meter was triggered for LEL methane at pile P-155 (51%) and P-154 (13%). The space between the piles were filled with surrounding co-mingled soil and the industrial fan was used to ventilate the work zone. No LEL (0%) was detected after filling and ventilation. A PID MiniRAE 2000 is being used as backup to the 4-gas meter.

Remarks: The JUNTAN pile driver developed minor hydraulic leaks which led to a stoppage of work until the problem was fixed. Leaking hydraulic fluid was captured in a 5-gallon bucket and stored on-site. The hydraulic leak was quickly fixed, however rain later in the day prevented welding from resuming.

The asphalt and construction debris stockpiles were loaded on to a disposal truck and transported off-site to a disposal facility. No leftover debris was observed on the former stockpile soil location.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato **Reviewed By:**

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Pile P-155 covered with surrounding co-mingled soil (0% LEL at inlet).

Maintenance setup of JUNTAN pile driver due to minor hydraulic leak.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny and slightly cloudy, Rainy later in day** **Humidity**

Date: August 16, 2017 Time: 0700 – 17:00 High Med Low

Temp: 70 - 80 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation

Site Work Progress:

11 piles were driven to their completion depths of approximately 75 feet and 2 piles were driven to halfway depth of approximately 37'. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. Although no gas detections were recorded, an industrial fan was used to ventilate the work zone. A fire extinguisher was also present near pile driving and welding activities. The meter alarms are set to trigger if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are measured above OSHA exposure limits. The meter was not triggered for any gases during the course of the work day. A PID MiniRAE 2000 is being used as backup to the 4-gas meter.

Remarks:

Boulders roughly 3-4' in diameter were encountered at pile P-95. An excavator was used to remove the boulders which were approximately four feet below grade. No municipal solid waste was encountered; trace amounts of construction debris was observed in the shaping soil. Debris is being stockpiled for proper disposal.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato **Reviewed By:**
Date:

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Pile driving environmental monitoring setup.

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Large boulders from P-95 pile, trace construction debris mixed.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Sunny and slightly cloudy** **Humidity**

Date: August 16, 2017 Time: 0700 – 17:00 High (Med) Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park Municipality: Bronx, NY Job No: 17002426A

Site Contractors: Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation, soil and erosion inspection

Site Work Progress:

10 piles were driven to their completion depths of approximately 70 feet and 2 piles were driven to halfway completion depth of roughly 37'. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. A piece of construction debris was placed on top of the meter to prevent damage from welding activities. A fire extinguisher was present near pile driving and welding activities and a fan was turned on, aimed at the active piling during welding. The meter alarms are triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are above OSHA exposure limits; the meter was triggered for pile P-80 for methane LEL at 99%. The pile was at it`s completion depth of 70 feet when the gas was detected. An odor was present at the pile and surrounding co-mingled soil was filled into the inlet. The inlet was then rescanned reading 0% for methane LEL. Later in the day the pile was rescanned showing 5% LEL (below the alarm trigger) and was labeled to have the fan turned on prior to cutting. The pile was not cut today. A PID MiniRAE 2000 was on site as backup if the 4-gas meter wasn`t working properly.

Remarks: Boulders roughly 3-4' in diameter were hit on pile P-80. An excavator was brought in and the boulders were dug out to roughly 4' below ground surface. No municipal solid waste was encountered; trace amounts of construction debris was observed in the shaping soil.

The area where leakage was seen on August 15 from the JUNTAN pile driver was inspected. Some visual staining was present (roughly 5 gallons of soil). JCS agreed to have the soil placed into buckets and set aside until later disposed of.

JCS was notified to hydro seed the on-site co-mingled soil stockpile. Currently the Triple-G is scheduling the hydro seeder to arrive on-site as soon as possible.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato **Reviewed By:**
Date:

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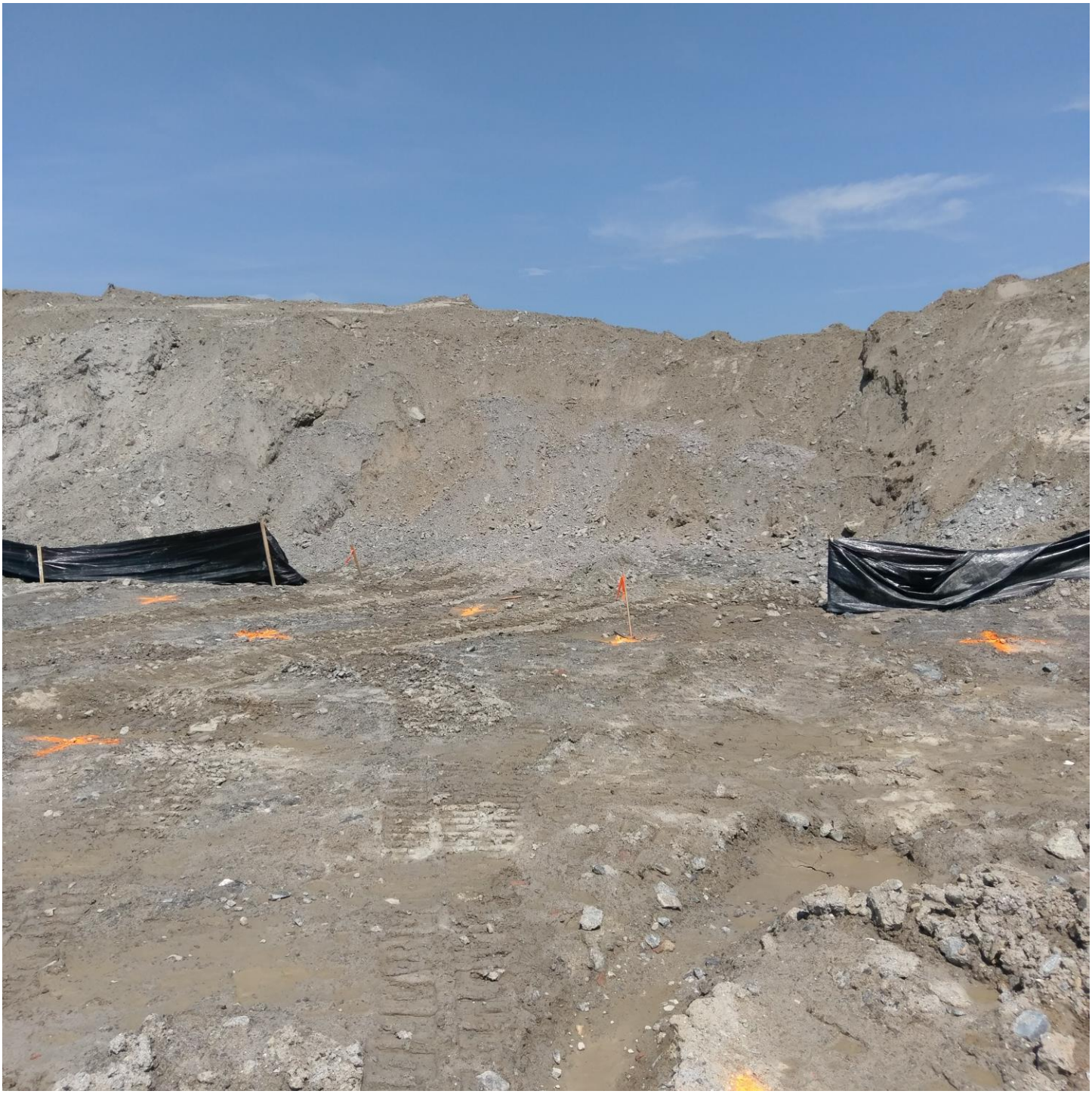

Co-mingled stockpile soil moved for pile driving (silt fence temporary moved, stockpile will be seeded).

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Minor soil staining from August 15 pile driving leakage.

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Boulders from P-80 pile, odor and methane reading after completion depth (~70').

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather:** Cloudy with Heavy Rain **Wind:** **Humidity**

Date: 8/18/17 **Time: 7:00** **Temp:** **82** °F High Med Low

Name of Project: Trump Golf Links-Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002624A**

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for the proposed new Clubhouse

Activities Included: Pile driving and welding of steel beams

Site Work Progress:

8 piles were driven to their completion depths of approximately 75 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas MiniRAE meter. The 4-gas MiniRAE meter was mounted to a PVC pipe and placed next to the pile during welding and pile driving. A protective cover was placed over top of the meter to prevent damage from welding activities. A fire extinguisher was present near pile driving and welding activites, and a fan was turned on, and aimed at the active piling. The meter alarms are triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen, and methane (as Lower Explosive Limit) are above OSHA exposure limits. There were no alarms during today's efforts, and no readings were above ambient air levels.

Remarks:

Efforts for the day began at 0700, and site activities were concluded at 1500.

Site Photographs: Yes No

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Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date: 08/18/2017

View #1 of site showing piles driven on 08/18/2017

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny** **Wind:** **Humidity**

Date: 8/21/17 **Time: 7:00** **Temp: 88** °F High Med Low

Name of Project: Trump Golf Links-Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002624A**

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for the proposed new Clubhouse

Activities Included: Pile driving and welding of steel beams

Site Work Progress:

12 ½ piles were driven to their completion depths of approximately 75 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas MiniRAE meter. The 4-gas MiniRAE meter was mounted to a PVC pipe and placed next to the pile during welding and pile driving. A protective cover was placed over top of the meter to prevent damage from welding activities. A fire extinguisher was present near pile driving and welding activites, and a fan was turned on, and aimed at the active piling. The meter alarms are triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen, and methane (as Lower Explosive Limit) are above OSHA exposure limits. There were no alarms during today's efforts, and no readings were above ambient air levels.

Remarks:

Efforts for the day began at 0700, and site activities were concluded at 1700.

Site Photographs: Yes No

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Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date: 08/21/2017

View #1 of site showing piles driven on 08/18/2017

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny and Cloudy** **Wind: Medium** **Humidity**

Date: August 22, 2017 Time: 0700 – 15:30 **Temp: 70 - 95** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation, Soil and erosion inspection

Site Work Progress:

9 piles were driven to their completion depths of approximately 70 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. No alarm triggers were activated at any time and all safety measures (ventilation fan, fire extinguisher etc) were in-place during the operations.

Remarks: Piles P-110 and P-105 had methane's level detected of 5% and 6% (below alarm limit). The inlets of the piles were covered in surrounding co-mingled soil for safety. No readings were detected after piles were covered.

Areas were trenched roughly 10 ft. deeper for certain piles per specs for concrete slabs. No municipal solid waste observed.

Currently the co-mingled pile is now scheduled to be tarped and anchored with sandbags rather than hydro seeding. Tarping is expected to take place on August 23, 2017. Storm water inlet drains were covered with sediment erosion catch basins all around the parking lot construction area.

Soils previously stained with oil from the pile driver leakage was disposed of properly.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Piles to completion depth (~70').

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Storm water drain inlet cover.

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Trench for concrete base slab (No municipal solid waste observed).

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny and Cloudy** **Wind: Medium** **Humidity**

Date: August 23, 2017 Time: 0700 – 16:30 High Med Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation, Soil and erosion inspection

Site Work Progress:

10 piles were driven to their completion depths of approximately 70 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. The meter was not triggered for any alarms over OSHA standards.

Remarks: Some of the tarping from the parking lot stockpiles was slightly displaced from the high winds/rain in yesterday's storm event. There was no visual evidence that any of the soils had been disturbed or had been blown or washed away. The JCS foreman was informed that the tarping needed to be re-secured. The tarps were replaced over the stockpiles and additional haybales were staged on the downslope side of the stockpile.

Pile P-73 had methane's level detected 3% (below alarm limit). Shortly after measuring P-73, a reading was not observed (0%). No action was needed.

The co-mingled pile was tarped over and anchored with sandbags rather than hydro seeded.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Parking lot shaping and cover layer stockpiles (Tarping unanchored after storm event, stockpile recovered in the morning).

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Co-mingled on-site soil stockpile covered with tarping and anchored with sandbags.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Sunny and Cloudy** **Wind: Medium** **Humidity**

Date: August 24, 2017 Time: 0700 – 17:00 High (Med) Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation, Soil and erosion inspection

Site Work Progress:

11 piles were driven to their completion depths of approximately 70 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. The meter was not triggered for any alarms over OSHA standards. A PID MiniRAE 2000 was on site as backup.

Remarks: The silt fence on the construction side of the co-mingled stockpile was knocked over during pile driving set up. The foreman was notified and a new silt fence will be put in.

An obstruction (large boulders) was hit on P-59. Excavator called in to move boulders and continue driving.

No methane readings were detected throughout the day.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By:
Date:

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Silt fencing knocked over on construction side. New fencing to be put up tomorrow.

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Boulders hit on P-59 (roughly 4-5' dia.). No methane readings.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny** **Wind:** **Humidity**

Date: 8/25/17 **Time: 7:00** **Temp: 85** °F High Med Low

Name of Project: Trump Golf Links-Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002624A**

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for the proposed new Clubhouse

Activities Included: Pile driving and welding of steel beams

Site Work Progress:

9 piles were driven to their completion depths of approximately 75 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas MiniRAE meter.. The meter alarms are triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen, and methane (as Lower Explosive Limit) are above OSHA exposure limits. There were no alarms during today's efforts, and no readings were above ambient air levels.

Remarks:

Efforts for the day began at 0700, and site activities were concluded at 1500.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

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Observed By: Eric Sergent

Reviewed By:
Date: 08/25/2017

View #1 of site showing piles driven on 08/25/2017

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny** **Wind:** **Humidity**

Date: 8/28/17 **Time: 7:00** **Temp: 80** °F High Med Low

Name of Project: Trump Golf Links-Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002624A**

Site Contractors: JCS Construction, Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for the proposed new Clubhouse

Activities Included: Pile driving and welding of steel beams

Site Work Progress:

12 piles were driven to their completion depths of approximately 75 feet, and 2 pile bottoms were driven to a depth of approximately 40 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas MiniRAE meter. The meter alarms are triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen, and methane (as Lower Explosive Limit) are above OSHA exposure limits. There were no alarms during today's efforts, and no readings were above ambient air levels.

Remarks:

Efforts for the day began at 0700, and site activities were concluded at 1530.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

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YES NO

Observed By: Eric Sergent

Reviewed By:
Date: 08/28/2017

View #1 of site showing piles driven on 08/28/2017

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy and Rainy** **Wind: Medium** **Humidity**

Date: August 29, 2017 Time: 0700 – 1445 **Temp: 70 - 80** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation

Site Work Progress:

2 piles were driven to their completion depths of approximately 75 feet, 6 piles were driven halfway to the completion depth of roughly 37'. Two (2) piles were driven to roughly 82'. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. The meter was not triggered for any alarms over OSHA standards. A PID MiniRAE 2000 is used as a backup if the 4-gas meter.

Remarks: The silt fence on the construction side of the co-mingled stockpile was taken down to make room for pile driving towards the northern bounds of the pile area. The silt fence will be re-established immediately following the pile-driving; despite rainy conditions, no sediment was observed to migrate or slump.

Rain towards the end of the day prevented welding, bottoms (40' depth piles) were driven instead.

No methane readings were detected throughout the day.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Boulders hit on P-59 (roughly 4-5' dia.). No methane readings. Silt fence to be re-established.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny/cloudy** **Wind: Medium** **Humidity** High Med Low

Date: August 30, 2017 Time: 0700 – 1530 **Temp: 70 - 78** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation

Site Work Progress:

9 piles were driven to their completion depths of approximately 75 feet and 1 pile was driven halfway to the completion depth of approximately 37'. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. The meter was triggered for one (1) pile over OSHA Lower Explosive Limit (LEL) standards of 10%. A PID MiniRAE2000 is used as a backup.

Remarks: Pile P-33 was the only pile to trigger an alarm for methane (at 23%). The alarm sounded at the pile completion depth of 70'. The gap between the pile and the surrounding soil was filled with co-mingled soil material to eliminate a gas migration pathway. No readings (0%) were detected after the space was closed. The fan was moved closer to the pile to increase ventilation in the immediate vicinity of the work zone.

Pile P-47 hit refusal at 50 feet below grade. A sister pile (P-47S) was installed immediately to the southeast. P-47S also hit refusal at 50 feet below grade.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Sister pile P-47S (Right pile) was installed one foot southeast of P-47.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Sunny/cloudy** **Wind: Medium** **Humidity** High (Med) Low

Date: August 31, 2017 Time: 0700 – 1530 **Temp: 70 - 80** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation

Site Work Progress:

7 piles were driven to their completion depths of approximately 75 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. The meter was triggered for one (1) pile over OSHA Lower Explosive Limit (LEL) standards of 10%. Mitigation measures were taken to eliminate the vapor migration pathway. A PID MiniRAE2000 was used as a backup to the 4-gas meter.

Remarks: Pile P-38 was the only pile to trigger the alarm limits for methane at completion depth (~70'). A reading of 17% of the LEL was measured. The void space between the pile and surrounding soil was filled with co-mingled soil. No readings (0%) were detected after the gap was closed. The fan was re-oriented to maximize ventilation.

Additional pile driving beyond the 80 foot level--remains pending at the piles that will support the future access ramp to the clubhouse located on the north side of the building. The engineer of record will determine if further driving is necessary. When that decision is made, appropriate measures will be enacted.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By:
Date:

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Pile P-38 (Right pile) covered with soil at the inlet.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: Sunny/cloudy** **Wind: Medium** **Humidity** High Med (Low)

Date: September 1, 2017 **Time: 0700 – 1700** **Temp: 60 - 85** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation

Site Work Progress:

8 piles were driven to their completion depths of approximately 75 feet. Two (2) piles were driven to 82'. Three (3) piles were driven to 40'. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. The meter was triggered for one (1) pile over OSHA Lower Explosive Limit (LEL) standards for methane. Mitigation measures were taken before welding was allowed to continue. A PID MiniRAE2000 is used as a backup to the 4-gas meter.

Remarks:

Piles driven past 80' were located in the northern end of the clubhouse building for the proposed ramp for heavy vehicles. Cement that was poured yesterday August 31, 2017 has cured. Some soil from the co-mingled soil stockpile on-site was used to backfill the outer bounds of the cement.

Pile P-16 was found to have high levels of methane (91%) after being driven 40'. The industrial fan was turned on and pointed towards the pile. Soil cuttings were placed and tamped around the pile. No methane detections were recorded and work was allowed to proceed. The 4-gas meter was placed adjacent to the pile. The alarm was not triggered during welding.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By:
Date:

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Co-mingled soil from the construction area stockpile. Soil will be used as backfill around the southeastern bounds of the clubhouse.

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Pile driving at the proposed ramp for heavy vehicles at the clubhouse. Pile P-16 is shown loaded onto the pile driver.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU (SA circled)

Weather: Sunny, partially cloudy **Wind: Medium** **Humidity** High Med Low (Low circled)

Date: September 2, 2017 **Time: 0700 – 1700** **Temp: 60 - 70** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation

Site Work Progress:

8 piles were driven to their completion depths of approximately 75 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. The meter was not triggered for any alarms over OSHA standards.

Remarks:

Due to deflection, Pile P-16 was abandoned. A new sister pile is proposed to be placed near the original P-16 location and driven to completion once approved. Once this pile is completed, the only pile remaining to driven will be P-25.

No detections were found above ambient levels throughout the day.

Site Photographs: Yes (Yes circled) No

Additional Action Required by Project Mgr. or Eng.:

YES NO (NO circled)

Observed By: John Fortunato

Reviewed By:
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Pile driving progress on-site. Pile P-16 outlined in red.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny** **Wind: Medium** **Humidity**

Date: September 5, 2017 **Time: 0700 – 1430** High Med Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G, Bryans Quality Plus Pile Driving

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Pile driving and welding of steel beams, concrete base preparation

Site Work Progress:

3 piles were driven to their completion depths of approximately 70 feet. Before welding/cutting, the piles were checked at the inlet (ground surface elevation) with a 4-gas Q RAE Meter III. The meter was not triggered for any alarms over OSHA standards.

Remarks:

Pile P-16 was abandoned due to deflection. Two sister piles located approximately 3' north and west of the original P-16 location were driven to completion depth. No gas detections were found above ambient levels throughout the day. Pile driving work is now complete.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Two sister piles located next to P-16.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny/Cloudy** **Wind: Low** **Humidity**

Date: September 11, 2017 **Time: 0700 – 1500** High Med Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Co-mingled on-site soil backfill, concrete base preparation

Site Work Progress:

Plywood forms and reinforcing bars were placed on the northern side of the new clubhouse. The forms are to be filled with concrete. Co-mingled soil was backfilled and compacted between the plywood forms and perimeter of the forms. Approximately 150 yd^3 of soil was backfilled from the co-mingled on-site pile. The parking lot stockpiles remain covered and untouched, however soils from the stockpile may be used on the clubhouse construction site if additional material is required.

Remarks:

A new 4-gas meter was ordered from Pine Environmental to replace the original meter whose sensors were beginning to wear. The new QRAE II delivered on-site had sensors that worked properly except for LEL. A new 4-gas meter will be delivered tomorrow.

Soil was periodically scanned throughout the day with a PID. The perimeter of the construction site was also scanned with PID throughout the day. No detections were found above ambient levels throughout the day from either the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
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Co-mingled soil stockpile backfill location.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny and Cloudy** **Wind: Low** **Humidity**

Date: September 12, 2017 **Time: 0700 – 1500** High Med Low

Temp: 70 - 80 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Co-mingled on-site soil backfill, concrete base preparation

Site Work Progress:

Plywood forms and reinforcing bars continue to be placed on the northern side of the clubhouse. Forms will be filled with concrete. Co-mingled soil was backfilled and compacted between the plywood forms and perimeter of the forms. Approximately 128 yd^3 of soil was backfilled from the co-mingled on-site pile. The parking lot stockpiles remains covered.

Remarks:

A new 4-gas meter was delivered to the site. The sensors on the new VRAE all worked properly.

Soil was periodically scanned throughout the day with the new 4 gas meter and the PID. The perimeter of the construction site was also scanned throughout the day. No detections were found above ambient levels throughout the day from either the PID nor 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Soil moved from co-mingled location to the side of building.

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View of the Co-mingled stockpile at end of day.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny and Cloudy** **Wind: Low** **Humidity**

Date: September 13, 2017 **Time: 0700 – 1500** **Temp: 70 - 85** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G, American Pumping Inc.

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Concrete base fill, environmental air monitoring

Site Work Progress:

Concrete was poured into wooden forms with reinforcing bars. Air was continuously monitored during all concrete pouring and soil movement activities. A 4-gas meter was placed near the temporary clubhouse and continuously monitored. The perimeter of the construction site was also scanned with a PID throughout the day.

Remarks:

No detections were found above ambient levels throughout the day from either the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
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Concrete subbase after pouring.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Cloudy** **Wind: Low** **Humidity**

Date: September 14, 2017 **Time: 0700 – 1500** High (Med) Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Footing concrete form removal, environmental air monitoring

Site Work Progress:

The contractor spent the day removing the concrete forms for the footings. Air was continuously monitored during all soil movement activities. A 4-gas meter was placed near the temporary clubhouse and continuously monitored. The perimeter of the construction site was also scanned with a PID throughout the day.

Remarks:

No detections were found above ambient levels throughout the day from either the PID or the 4-gas meter.

Site Photographs: Yes (No)

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Eric Sergent

Reviewed By:
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: Sunny and Cloudy** **Wind: Low** **Humidity**

Date: September 15, 2017 **Time: 0700 – 1430** **Temp: 70 - 85** °F (High) Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Concrete form removal, Co-mingled soil backfill, environmental air monitoring

Site Work Progress:

Wooden forms were removed from the concrete base and soil from the co-mingled stockpile area was used to backfill. Air was continuously monitored during all soil disturbance and movement activities. A 4-gas meter was placed near the temporary clubhouse and continuously monitored. The perimeter of the construction site was also scanned with a PID throughout the day. Roughly 130 yd^3 of co-mingled soil was backfilled.

Remarks:

No detections were found above ambient levels throughout the day from either the PID or the 4-gas meter.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By:
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Co-mingled soil backfill.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy** **Wind: Low** **Humidity**

Date: September 18, 2017 **Time: 0700 – 1530** High Med Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Footing concrete form removal, environmental air monitoring

Site Work Progress:

The contractor spent the day backfilling the areas between footings. Air was continuously monitored during all soil movement. A 4-gas meter was placed near the temporary clubhouse and continuously monitored. The perimeter of the construction site was also scanned with a PID throughout the day.

Remarks:

No detections were found above ambient levels throughout the day from either the PID nor 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date:

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Picture 1: Area between footings being backfilled and compacted using a Jumping Jack.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy** **Wind: Low** **Humidity** High Med Low

Date: September 19, 2017 **Time: 0700 – 1530** **Temp: 70 - 85** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Footing concrete form removal, environmental air monitoring

Site Work Progress:

The contractor spent the day backfilling the areas between footings. Air was continuously monitored during all soil movement. A 4-gas meter was placed near the temporary clubhouse and continuously monitored. The perimeter of the construction site was also scanned with a PID throughout the day.

Remarks:

No detections were found above ambient levels throughout the day from either the PID nor 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date:

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Picture 1: Area between footings being backfilled and compacted using a Jumping Jack.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny and Cloudy** **Wind: breezy** **Humidity**

Date: September 20, 2017 **Time: 0645 – 1530** High Med Low

Temp: 67 - 81 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Co-mingled soil backfill and compact, environmental air monitoring

Site Work Progress:

Co-mingled soil from the construction zone stockpile was placed around the concrete forms to raise the grade level. Compaction was performed via backhoe bucket, 'jumping-jack' compactors and with sled compactors.

Air monitoring was performed around the entire work zone multiple times during the course of the day.

Remarks:

No air monitoring detections were identified throughout the day from either the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Co-mingled soils being compacted with 'jumping jack' and sled compaction equipment.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Cloudy** **Wind: Low** **Humidity**

Date: September 21, 2017 **Time: 0700 – 1530** High (Med) Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Footing concrete form removal, environmental air monitoring

Site Work Progress:

The contractor spent the day backfilling the areas between footings. Air was continuously monitored during all soil movement. A 4-gas meter was placed near the temporary clubhouse and continuously monitored. The perimeter of the construction site was also scanned with a PID throughout the day.

Remarks:

No detections were found above ambient levels throughout the day from either the PID nor 4-gas meter.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Eric Sergent

Reviewed By:
Date:

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Picture 1: Area between footings being backfilled and compacted.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy** **Wind: Low** **Humidity**

Date: September 22, 2017 **Time: 0700 – 1500** High Med Low

Temp: 70 - 85 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Backfill around footings, set forms for foundation walls, environmental air monitoring

Site Work Progress:

The contractor spent the day backfilling the areas between footings, and set concrete forms for foundation walls. Air was monitored during all soil movement activities. A 4-gas meter was placed near the temporary clubhouse and monitored. The perimeter of the construction site was also scanned with a PID throughout the day.

Remarks:

No detections were found above ambient levels throughout the day from either the PID nor 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy** **Wind: Low** **Humidity**

Date: September 25, 2017 **Time: 0700 – 1530** High Med Low

Temp: 70 -88 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Footing concrete form removal, soil compaction, environmental air monitoring

Site Work Progress:

There was minimum backfilling taking place in 2 small areas between the footings, contractor spent most of the day setting concrete forms for foundation walls on top of footings.

Inspected an excavation on the east side of the pond (behind maintenance building)/. The excavation had been opened by Trump Maintenance personnel to install an isolation a valve in the irrigation system. Shaping and cover material had been properly segregated into two piles- above lying sand and the below lying stone material.

Air was continuously monitored during all soil movement. A 4-gas meter was placed near the temporary clubhouse and continuously monitored. The perimeter of the construction site was also scanned with a PID throughout the day.

Remarks:

No detections were found above ambient levels throughout the day from either the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date:

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Picture 1: Area between footings being backfilled and compacted using a Jumping Jack

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Picture 1: Area between footings being backfilled and later compacted using a Jumping Jack.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy** **Wind: Low** **Humidity** High Med Low

Date: September 26, 2017 **Time: 0700 – 1530** **Temp: 72-88** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Footing concrete form removal, environmental air monitoring

Site Work Progress:

There was no backfilling taking place during the day, excess soil from around the perimeter of the building footprint was compiled into one area in the north corner of the site (east of job trailer), contractor spent most of the day setting concrete forms for foundation walls on top of footings. Air was continuously monitored during all soil movement activities. A 4-gas meter was placed near the temporary clubhouse and continuously monitored. The perimeter of the construction site was also scanned with a PID throughout the day.

Remarks:

No detections were found above ambient levels throughout the day from either the PID nor 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date:

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Picture 1: Excess soil pile.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy** **Wind: Low** **Humidity** High Med Low

Date: September 27, 2017 **Time: 0700 – 1500** **Temp: 68 - 88** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, Trimble Surveying, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse, Soil Stockpile Staging Area in Parking Lot

Activities included: Cutting & bending of re-enforcing bar, survey, movement of soils from parking lot staging area to the construction site, environmental air monitoring.

The excavation located behind the 7th green-which had been opened to install an isolation valve for the irrigation system-was properly backfilled. (No valve was installed as the location was determined to be infeasible).

Offsite: soil samples were collected at New York Recycling located at 475 Exterior Road Bronx, NY. Sample results will help determine whether the material is suitable of importation to the Ferry Point construction site.

Site Work Progress:

The contractor spent the day preparing re-enforcement bars in advance of an upcoming concrete pour.

Approximately 110 cubic yards of soil was taken from the soil stockpile in the parking lot and moved to three locations on the construction site. The material will be utilized to raise grade level on the construction site at some point in the near future.

Air monitoring was performed during the soil movement activities.

Remarks:

Air monitoring identified no detections above background levels throughout the day from either the PID nor 4-gas meter. Soil samples collected at New York Recycling were delivered to Hampton Clarke/Veritech labs.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo #1: Moving Soil from Parking Lot Stockpile to the Construction site

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy** **Wind: Low** **Humidity**

Date: September 27, 2017 **Time: 0700 – 1500** High Med Low

Temp: 68 - 88 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Offsite Work Area: Irrigation pipeline behind the 7th Green

Trump Links Maintenance personnel had opened an excavation behind the 7th Green during the week of September 20. The purpose of the excavation was to install a new isolation valve in the irrigation line so that sections of the golf course could be isolated in the event of and irrigation line leak. Total size of the excavation was approximately 8 feet long, 8 feet wide and 6 feet deep. Based on discussions with a contractor, no isolation valve was installed. The location was deemed to be infeasible. The excavated soils were segregated; cover material on the north side of the excavation; shaping material on the south side. No demarcation barrier or waste was observed. Excavation was covered with plywood sheets supported by 2inch x 10 inch planks.

Site Work Progress:

After determining that the location was not suitable for the installation of an isolation valve, Trump Maintenance personnel, backfilled the excavation. Material that had been segregated was placed back into the hole in the same stratigraphic sequence. Materials were compacted in lifts of approximately 1 foot each using a small backhoe. All excavated material was successfully replaced into the hole—leaving no excess material for disposal. The vegetative layer at the surface was restored to the extent practical. Maintenance personnel are expected to seed the area.

Remarks:

Air monitoring data collected from the open excavation and during the backfilling activities, recorded no detections above background.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

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Photo #1: Backfilling of small excavation area behind the 7th Green.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy** **Wind: Low** **Humidity** High Med Low

Date: September 27, 2017 **Time: 0700 – 1500** **Temp: 68 - 88** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Offsite Work Area: Offsite Shaping Layer Material Sampling and Investigation: New York Recycling, 475 Exterior Street, Bronx, NY

It is noted that this site was previously reviewed and approved (desktop level) by Woodard Curran and NYSDEC during the pre-closure phase of the project.

New York Recycling NYSDEC Permit # 03W87

Site Work Progress:

Soil sampling was conducted at New York Recycling located at 475 Exterior Street. Facility Manager Roger Freitas sectioned-off an approximately 2,500 cubic yard area from which the composite sample was collected. It is noted that the sample for VOC's was a discrete grab sample. Soils were screened with a PID with no indications of contamination. The soil pile was also inspected for signs of asphalt, slag, brick, concrete and other debris. No unauthorized debris was observed in the soil pile. A shovel was used to dig into the pile approximately 1 to 2 feet. Thereafter a dedicated trowel was used to collect representative point samples from approximately 12 locations. Samples were composited in a stainless steel bowl and troweled into the laboratory-supplied sample jars. Samples were placed on ice under chain of custody control.

Remarks:

Samples were delivered to Hampton Clarke Labs in Fairfield, NJ. Analyses to include all the parameters noted in "Table 1 Chemical Permit Limits Ferry Point" as provided by Woodard Curran.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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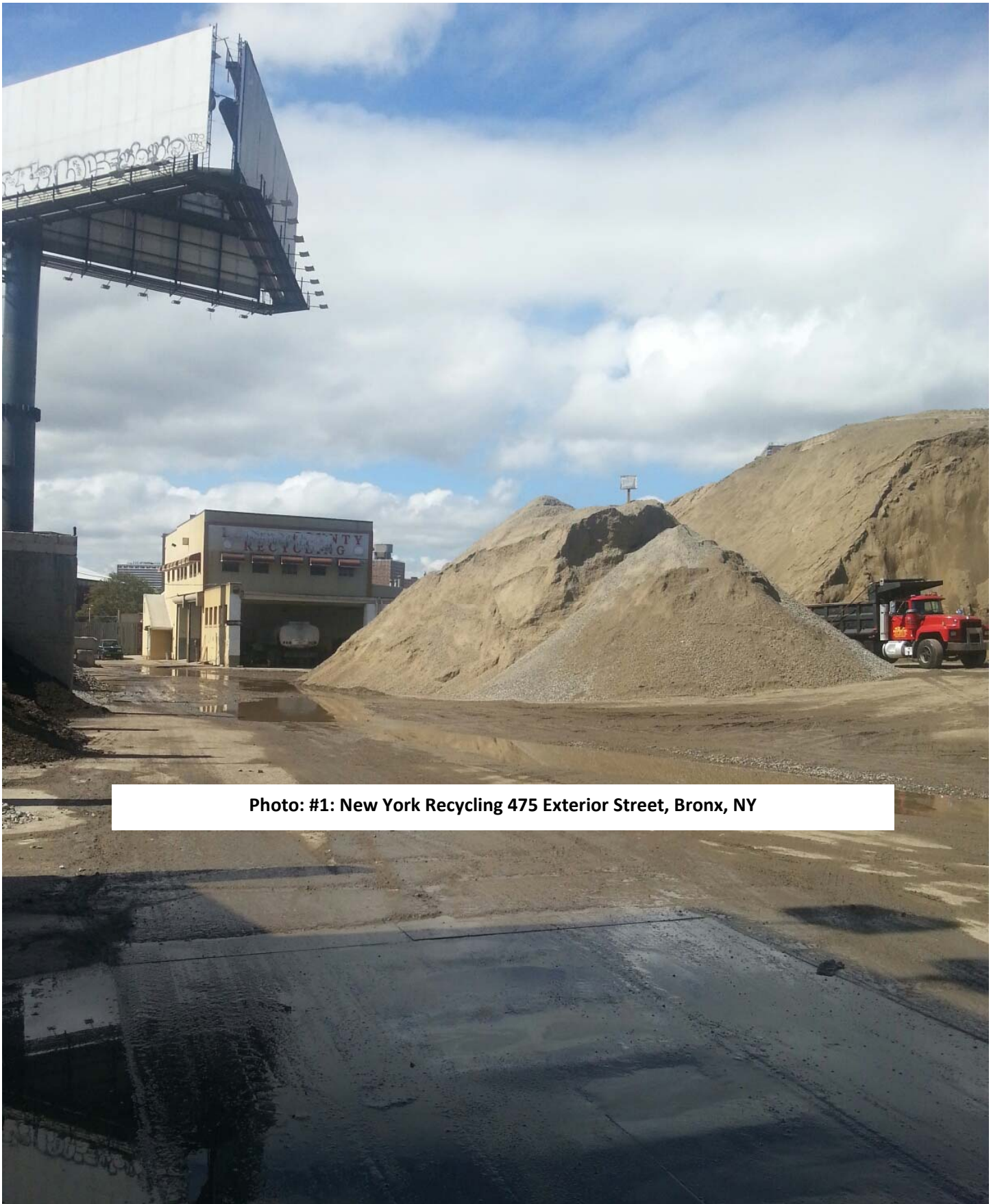

Photo: #1: New York Recycling 475 Exterior Street, Bronx, NY

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy** **Wind: Low** **Humidity** High Med Low

Date: September 27, 2017 **Time: 0700 – 1500** **Temp: 68 - 88** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Offsite Work Area: Offsite Shaping Layer Material Sampling and Investigation: New York Recycling, 475 Exterior Street, Bronx, NY

It is noted that this site was previously reviewed and approved (desktop level) by Woodard Curran and NYSDEC during the pre-closure phase of the project.

New York Recycling NYSDEC Permit # 03W87

Site Work Progress:

Soil sampling was conducted at New York Recycling located at 475 Exterior Street. Facility Manager Roger Freitas sectioned-off an approximately 2,500 cubic yard area from which the composite sample was collected. It is noted that the sample for VOC's was a discrete grab sample. Soils were screened with a PID with no indications of contamination. The soil pile was also inspected for signs of asphalt, slag, brick, concrete and other debris. No unauthorized debris was observed in the soil pile. A shovel was used to dig into the pile approximately 1 to 2 feet. Thereafter a dedicated trowel was used to collect representative point samples from approximately 12 locations. Samples were composited in a stainless steel bowl and troweled into the laboratory-supplied sample jars. Samples were placed on ice under chain of custody control.

Remarks:

Samples were delivered to Hampton Clarke Labs in Fairfield, NJ. Analyses to include all the parameters noted in "Table 1 Chemical Permit Limits Ferry Point" as provided by Woodard Curran.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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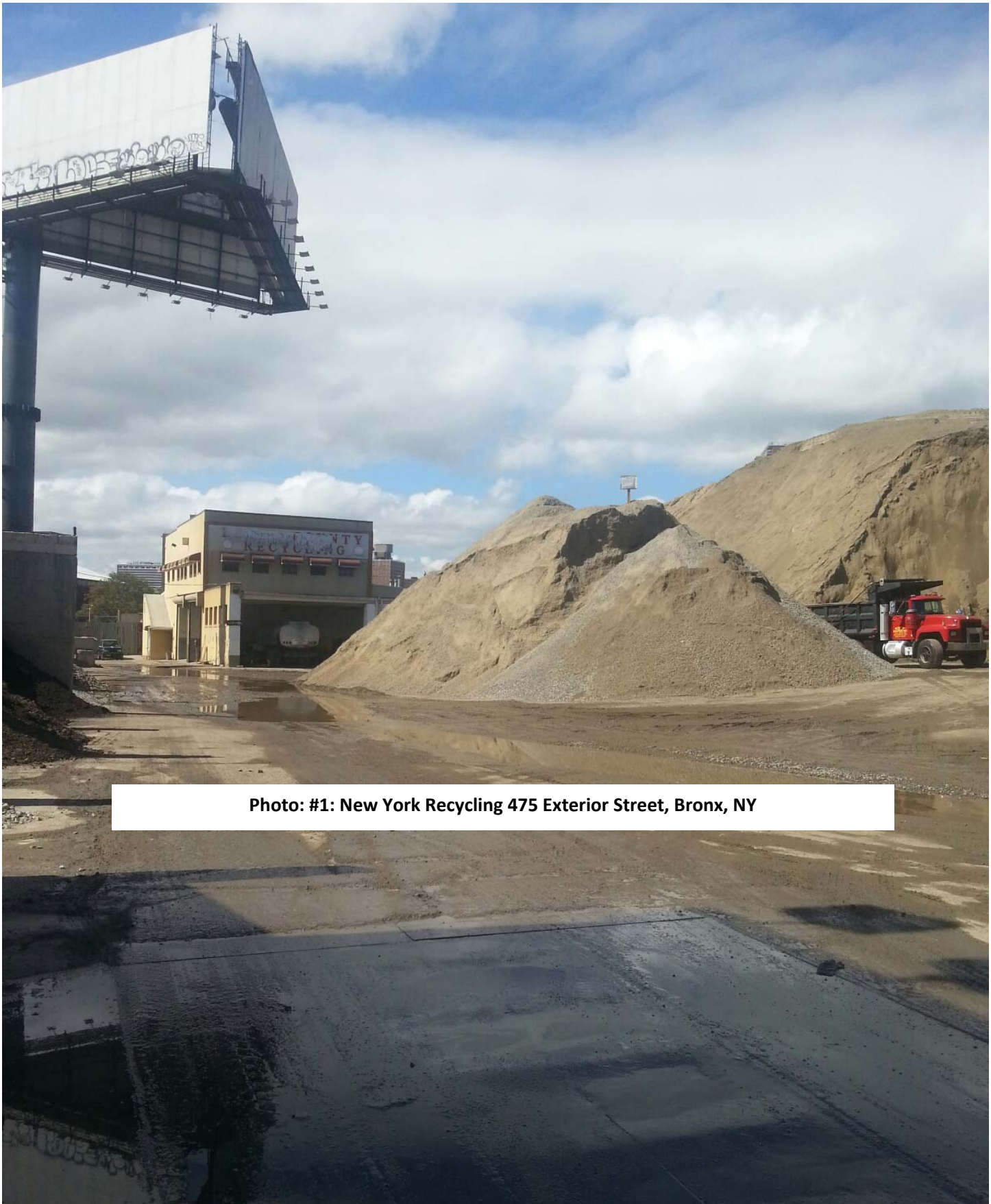

Photo: #1: New York Recycling 475 Exterior Street, Bronx, NY

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: Sunny** **Wind: Low** **Humidity**

Date: September 29, 2017 **Time: 0700 – 1500** **Temp: 60 - 75 °F** High Med (Low)

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse, Soil Stockpile Staging Area in Parking Lot

Activities included: Movement of soils from on-site co-mingled stockpile in parking lot to the construction site, backfill, compaction of co-mingled soil backfill, environmental air monitoring.

Site Work Progress:

The contractor spent the day preparing re-enforcement bars in advance of an upcoming concrete pour.

Approximately 100 cubic yards of soil was taken from the soil stockpile in the parking lot and moved to three locations on the construction site. The material will be utilized to raise grade level on the construction site at some point in the near future.

Air monitoring was performed during the soil movement activities.

Remarks:

Air monitoring identified no detections above background levels throughout the day from either the PID nor 4-gas meter.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By:
Date:

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Photo #1: Remaining co-mingled stockpile on- site.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny** **Wind: Low** **Humidity** High Med Low

Date: October 2, 2017 **Time: 0700 – 1530** **Temp: 85** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Footing concrete form removal, environmental air monitoring

Site Work Progress:

Contractor spent the day removing concrete forms and backfilling between open areas between foundation walls after forms were removed. Air was continuously monitored during all soil movement. A 4-gas meter was placed near the temporary clubhouse and continuously monitored. The perimeter of the construction site was also scanned with a PID throughout the day.

Remarks:

No detections were found above ambient levels throughout the day from either the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date:

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Photo1: concrete from removal and compaction of material.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny** **Wind: Low** **Humidity** High Med Low

Date: October 3, 2017 **Time: 0700 – 1530** **Temp: 82** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Footing concrete form removal, environmental air monitoring

Site Work Progress:

Contractor spent the day removing concrete forms and backfilling between open areas between foundation walls after forms were removed.. Air was continuously monitored during all soil movement. A 4-gas meter was placed near the temporary clubhouse and continuously monitored. The perimeter of the construction site was also scanned with a PID throughout the day.

Remarks:

No detections were found above ambient levels throughout the day from either the PID nor 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny** **Wind: Low** **Humidity**

Date: October 4, 2017 Time: 0700 – 1530 **Temp: 60 - 80** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse, Soil Stockpile Staging Area in Parking Lot

Activities included: Backfill of soils from co-mingled stockpile remaining on-site. Compaction of co-mingled soil backfill and environmental air monitoring.

Site Work Progress:

Approximately 50 cubic yards of soil was taken from the co-mingled soil stockpile on-site and moved towards the southern end of the construction site. The material will be utilized to raise grade level on the construction site at some point in the future. The soil was sprinkled with water before compaction to improve dust control and increase compaction.

Air monitoring was performed during the soil movement activities.

Remarks:

Air monitoring identified no detections above background levels throughout the day from either the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Photo #1: Co-mingled soil after compaction.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Sunny/Cloudy** **Wind: Low** **Humidity** High Med (Low)

Date: October 5, 2017 Time: 0700 – 1530 **Temp: 60 - 80** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse, Soil Stockpile Staging Area in Parking Lot

Activities included: Movement of soils from on-site co-mingled stockpile and shaping layer soil. Compaction of co-mingled soil backfill and environmental air monitoring.

Site Work Progress:

Soil backfilled between the concrete sub-structure was screened to remove any large rocks/boulders and compacted. The soil was sprinkled with water before compaction to improve dust control and increase compaction.

Air monitoring was performed during the soil movement activities with a 4-gas meter and PID.

Remarks:

Air monitoring identified no detections above background levels throughout the day from either the PID or the 4-gas meter.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By:
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Photo #1: Co-mingled soil after compaction.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny/Cloudy** **Wind: Low** **Humidity**

Date: October 6, 2017 Time: 0700 – 1530 **Temp: 60 - 85** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse, Soil Stockpile Staging Area in Parking Lot

Activities included: Movement of soils from on-site co-mingled stockpile and shaping layer soil. Compaction of co-mingled soil backfill and environmental air monitoring.

Site Work Progress:

Soil backfilled between the concrete sub-structure was screened to remove any large rocks/boulders and compacted. The soil was sprinkled with water before compaction to improve dust control and increase compaction. Soil was compacted in lifts approximately 8" of soil per a lift to meet specifications.

Air monitoring was performed during the soil movement activities with a 4-gas meter and PID. The 4-gas meter was stationed near the intersection between the construction site and temporary clubhouse. The perimeter of the site was monitored with a PID throughout the day.

Remarks:

Air monitoring identified no detections above background levels throughout the day from either the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Photo 1: Compacted co-mingled soil. Area continuously scanned with PID during compaction.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy** **Wind: Light** **Humidity**

Date: October 11, 2017 **Time: 0900 – 1230** High Med Low

Temp: 68 - 76 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Importation of crushed stone to raise grade elevations under the footprint of the new club house. Installation of sub-grade plumbing and electrical conduits.

Site Work Progress:

Crushed stone was imported to the site and stockpiled. This material will be used later in the week to raise the grade elevations under the footprint of the new club house building.

Air monitoring was performed along the perimeter of the site with the PID and the 4-gas meter.

Remarks:

Air monitoring was conducted throughout the day. No detections above background were recorded on the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo #1: importation of crushed stone to the club house construction area.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Sunny/Cloudy** **Wind: Breezy** **Humidity**

Date: October 12, 2017 **Time: 1400 – 1600** High Med (Low)

Temp: 68-70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: spreading of crushed stone to raise grade under the footprint of the club house, continued installation of sub-grade plumbing and electrical conduits.

Site Work Progress:

Crushed stone was place inside the club house footprint and spread to raise elevations 1 foot as per specifications.
Air monitoring was performed around the perimeter of the construction area and at select locations of work activities.

Remarks:

Air monitoring was conducted throughout the day. No detections above background were recorded on the PID or the 4-gas

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo #1: Crushed stone being laid to raise base elevations 1 foot as per specifications.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Overcast Skies** **Wind:Windy** **Humidity**

Date: October 13, 2017 **Time: 1300 – 1500** High Med Low

Temp: 60-68 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: spreading of crushed stone to raise grade under the footprint of the club house, continued installation of sub-grade plumbing and electrical conduits.

Site Work Progress:

Crushed stone was place inside the club house footprint and spread to raise elevations 1 foot as per specifications.
Air monitoring was performed around the perimeter of the construction area and at select locations of work activities.

Remarks:

Air monitoring was conducted throughout the day. No detections above background were recorded on the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo #1: Crushed stone stockpile. Stone was being laid to raise base elevations 1 foot as per specifications.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Clear Skies** **Wind:Windy** **Humidity**

Date: October 19, 2017 **Time: 0900 – 1300** High Med Low

Temp: 66 - 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: continued installation of sub-grade plumbing and electrical conduits; inspection of anchor bolts; weekly construction meeting.

Site Work Progress:

Sub-grade electrical and plumbing work contined. Air monitoring was performed around the perimeter of the construction area and at select locations including the 'honeycombs'.

Remarks:

Air monitoring was conducted. No detections above background were recorded on the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo #1: Crushed stone stockpile to be used to raise sub-grade and later for SSDS installation.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: partly cloudy** **Wind: breezy** **Humidity**

Date: October 25, 2017 **Time: 0800 – 1200** High Med Low

Temp: 64 - 68 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: continued installation of sub-grade plumbing and electrical conduits; inspection and repair of anchor bolts; weekly construction meeting.

Site Work Progress:

Sub-grade electrical and plumbing work continued. Air monitoring was performed around the perimeter of the construction area and at select locations.

Remarks:

Air monitoring identified no detections above background on the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo #1: Crushed stone used to raise sub-grade in advance of SSDS installation.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: partly cloudy** **Wind: light and variable**
Humidity

Date: November 1, 2017 **Time: 0800 – 1200** High Med Low
Temp: 56 - 60 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: continued installation of sub-grade plumbing and electrical conduits; staging of crushed stone for use in SSDS; weekly construction meeting.

Site Work Progress:

Staging of Liquid Boot materials including spray-on solutions, fabric and protective layers. Material is being temporarily stored on pallets. It is expected that the materials will be used to create a vapor barrier during the week of November 6. Sub-grade electrical and plumbing work continued. Completion of re-inforcing bar installation in proposed outdoor patio area; Air monitoring was performed around the perimeter of the construction area and at select locations.

Remarks:

Air monitoring identified no detections above background on the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo #1: Staging of Liquid Boot Materials for use in the SSDS .

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny** **Wind: Medium-Low** **Humidity**

Date: November 2 , 2017 **Time: 0700 – 1500** **Temp: 50°F** High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, EAI Environmental

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Backfilling the stone sub base, and install sections of the SSDS pipping.

Site Work Progress:

EAI Environmental was onsite laying down the SSDS piping for the section with 3 vent pits. EAI installed all of the piping for that section and also prepared the 3 pits to the point that only the concrete cap needed to be set into place. (See photos below)

Tomorrow's planned activities is to start laying down the green plastic barrier to prep for applying the Liquid Boot compound within the building footprint

Remarks:

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date:

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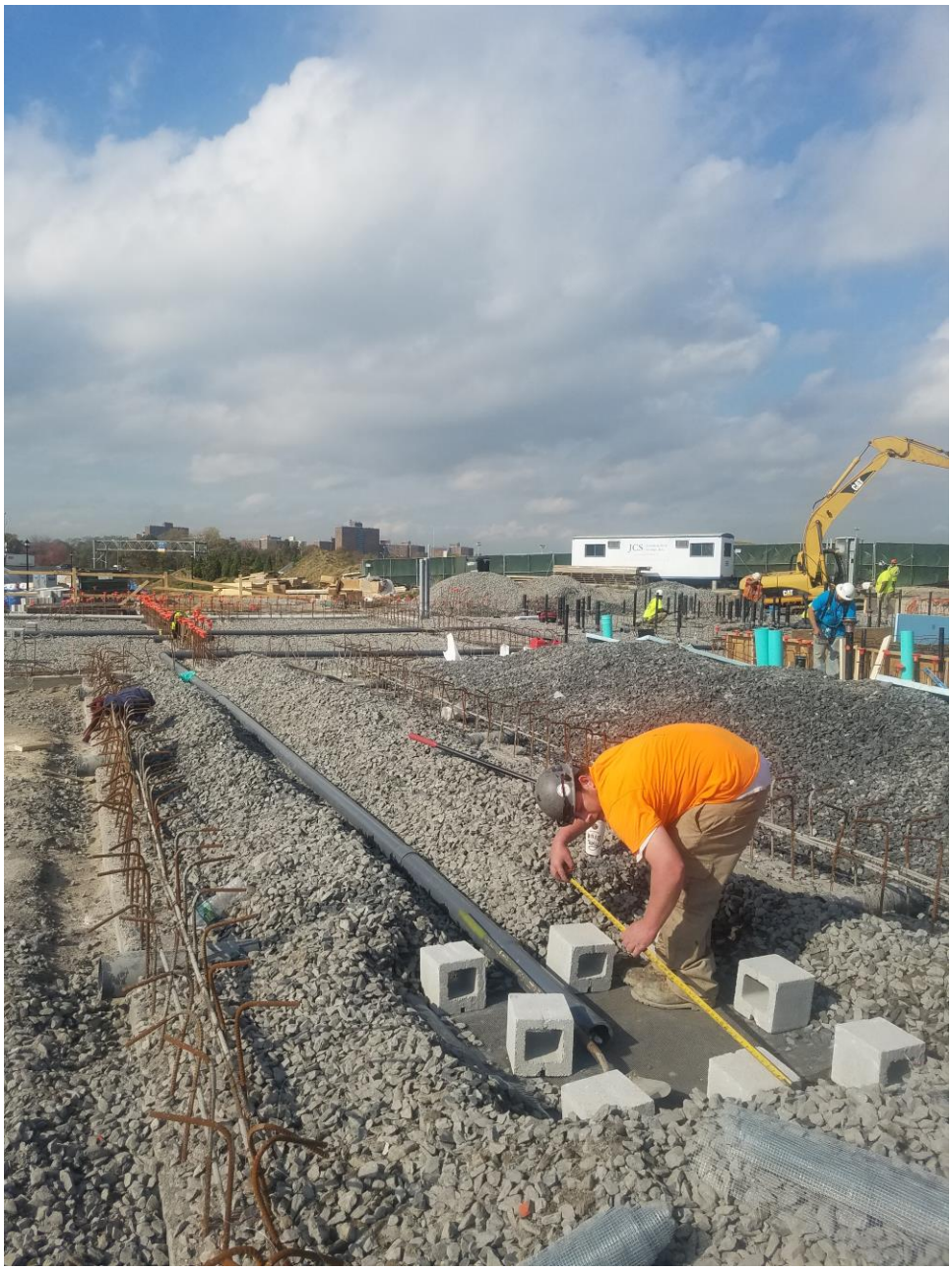

Photo 1: EAI employee measuring the dimensions of the SSDS Air Pit

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Photo 2: Partially completed air pit for the SSDS system.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: Sunny and Cloudy** **Wind: Light-midium** **Humidity**

Date: November 3, 2017 **Time: 0700 – 1300** **Temp: 56 - 60** °F (High) Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Continued installation of sub-grade plumbing and electrical conduits; SSDS installation of crushed stone, PVC piping, and concrete cage pits

Site Work Progress:

The second installation of the SSDS piping was advanced by EAI and inspected by Maser Consulting. The configuration consisted of header 4" dia. Schedule 80 PVC piping connecting to four (4) sub-slab depressurization pits and one (1) riser 4" dia. Schedule 80 PVC pipe.

Deviations to the original EAI site plan denoted as Drawing No. SD004 were made to account for as-built utilities. The pit locations did not change, however the PVC piping was altered slightly. Minor changes includeded PVC piping entering from a different pit side and removal of unnecessary elbows. All pits were constructed based on EAI's approved spec, which slightly differs from the SD004 spec in regard to the concrete block configuration and steel rods. DP-2B was the only pit left unconstructed at the end of the day however, Triple G will be installing the final pit prior to liquid boot installation.

As-built dimensions were measured for both first and second SSDS piping advancements.

A 4-gas meter was kept on-hand and checked periodically throughout the day.

Remarks:

Air monitoring identified no detections above background on the PID or the 4-gas meter.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By:
Date:

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Photo #1: DP-2A Sub-slab depressurization pit. PVC piping heading toward T couple and SD2-C pit.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny-Partly Cloudy** **Wind: Light-medium** **Humidity**

Date: November 4, 2017 **Time: 0700 – 1330** High Med Low

Temp: 60 - 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Continued installation of reinforcement bar cages around patio area.

Site Work Progress:

Re-inforcement bar around the patio area of the clubhouse was reworked by Triple G to meet inspection standards. Extra gravel below the rebar cages was removed and placed within the SSDS sub-slab area.

A 4-gas meter was mounted near the clubhouse area and checked periodically throughout the day.

Remarks:

Air monitoring identified no detections above background on the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Photo #1: Photo of the DP-2B SSDS pit area

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: 100% cloudy; misty in the morning, some showers in the afternoon**

Humidity High Med Low

Date: November 6, 2017 **Time: 8:00am**

Temp: 64 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G, EAI (Newark, NJ)

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: SSDS installation

Site Work Progress:

The 7th and final SSDS pit (DP-2B) was excavated and connected to the lateral SSDS collection piping. EAI stated that low point drains were installed in the lateral collection piping at intervals of no more than 20 feet. Measurements of the SSDS system component installed locations were taken for use in the P.E.'s as-built report. The vent risers were found to be uncovered, and temporary duct tape covers were placed over these two open pipes; the standing water needs to be removed from these pipes, and more permanent covers need to cap these pipes until construction of the remaining piping to the roof begins.

A fire extinguisher was present near work activities. The VRAE meter alarms is triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are above OSHA exposure limits; the alarm was not triggered for these four gases during morning and afternoon walkarounds of today's activities.

A walkdown of the soil stockpiles for erosion and sediment control was conducted, with the haybales and tarps found to be satisfactory.

Tomorrow's planned activities include pouring stone cover over the lateral SSDS collection piping, with Liquid Boot® installation planned for Wednesday/Thursday of this week.

Remarks:

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Donald Bowman, P.E. Donald Bowman **Reviewed By:**

Date:

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View of eastern section of SSDS, showing lateral collection piping (dark gray), pit DP-1B with white concrete slab cover (far background, in front of backhoe bucket), and vent riser SFV-1 (far right side) (11/06/2017)

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View of western section of SSDS, showing lateral collection piping (dark gray), pit DP-2A (far left side), pit DP-2B being constructed in the southwest corner of building footprint (far background), and vent riser SFV-2 (far right side) (11/06/2017)

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Mostly sunny, then turned 100% cloudy** **Humidity**

Date: November 7, 2017 **Time: 6:45am** High Med Low

Temp: 45 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: SSDS installation

Site Work Progress:

Stone was poured to an approximate depth of 12 inches per design over the eastern third of the lateral SSDS collection piping.

A fire extinguisher was present near work activities. The VRAE meter alarms is triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are above OSHA exposure limits; the alarm was not triggered for these four gases during morning and afternoon walkarounds of today's activities.

A walkdown of the soil stockpiles for erosion and sediment control was conducted, with the haybales and tarps found to be satisfactory.

Tomorrow's planned activities include pouring stone cover over the balance of the lateral SSDS collection piping, with (weather permitting) Liquid Boot® installation in parallel over the eastern third (i.e. area that was covered with stone today).

Remarks:

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Donald Bowman, P.E. Donald Bowman

Reviewed By:
Date:

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View of eastern section of SSDS, showing lateral collection piping (dark gray) and vent riser SFV-1 (far right side): at the conclusion of 11/06/2017 (above) & at the conclusion of 11/07/2017 (below)

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast** **Wind: easterly wind** **Humidity**

Date: November 8, 2017 **Time: 0700 – 1400** High Med Low

Temp: 40 - 50 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction, EAI (Liquid Boot Application)

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: spreading of crushed stone for use in SSDS; weekly construction meeting; application of base layer and liquid boot application in the northwestern section of new clubhouse.

Site Work Progress:

20ML thick vapor barrier base layer was placed over completed floor sections in the northwest corner of the clubhouse. Application of Liquid Boot was delayed until ambient temperatures reached and climbed above 45 degrees. Two floor sections were completed before a pump malfunction forced an early shutdown. Liquid Boot will cure overnight. Smoke and swatch thickness testing will be performed tomorrow. Air monitoring was performed around the perimeter of the construction area and at select locations.

Remarks:

Base layer was measured at a thickness of 20.5 ML. Vapor barrier base layers were overlapped a minimum of 6 inches as per the specification. Liquid Boot spray was also applied as per specifications and only when ambient temperatures climbed above 45 degrees.

Air monitoring identified no detections above background on the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo #1: Liquid Boot application in the northwest floor section of the new clubhouse building.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Sunny/Partialy Cloudy** **Wind: Low Wind** **Humidity**

Date: November 9, 2017 **Time: 0700 – 1500** High (Med) Low

Temp: 40 - 55 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction, EAI (Liquid Boot Application)

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Spreading of crushed stone for use in SSDS; application of base layer geomembrane and liquid boot in the northwestern section of new clubhouse.

Site Work Progress:

The floor sections where liquid boot was applied on November 8th were smoke tested today. A total of five (5) coupon samples (1 per concrete section) were taken from the area designated as Area A. The coupon sampling frequency complies with the specifications. Four (4) smoke tests were performed in Area A. Representatives Ethan and Jen from Woodard & Curran were present during the smoke test. A protective geotextile fabric was placed on top of the liquid boot section following successful smoke testing and coupon thickness testing.

A 20 mil thick geomembrane base layer (VI-20) and liquid boot was placed over the completed floor sections in Area B. This area is south of Area A. After 6 hours of curing time, Area B was smoke tested. A total of three (3) coupon samples and (4) smoke tests were performed in Area B. Portions of the area where smoke was visibly escaping the barrier were re-sprayed with liquid boot. A protective geotextile fabric was placed over the barrier following successful testing.
Smoke testing was also performed on the SSDS piping network to confirm no blockages. During the test, visible smoke was observed from pits DP-1A and DP-1C.

Air monitoring was performed around the perimeter of the construction area and at select locations.

Remarks:

Coupon samples were measured with digital calipers. Coupon thicknesses met or exceeded the 60 ml specification with most coupons measuring thicknesses of 70-90 mils. Vapor barrier base layers were overlapped a minimum of 6 inches as per the specification. Liquid Boot spray was also applied as per specifications and only when ambient temperatures climbed above 45 degrees. Air monitoring identified no detections above background on the PID or the 4-gas meter.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato **Reviewed By:**

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Date:

Photo #1: Liquid Boot application in the northwest floor section of the new clubhouse building (Area A and B).

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Heavy Rain** **Wind: High** **Humidity**

Date: November 13 , 2017 **Time: 0700 – 1500** **Temp: 37°F** High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, EAI Environmental

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Backfilling the stone sub base, and install sections of the SSDS pipping.

Site Work Progress:

EAI Environmental was onsite however it was determined that it was raining too hard to begin applying the Liquid Boot Compound, so they left for the day. Triple G contractor was on site for the day setting up the concrete forms for the floor slab of the remaining areas within the building footprint

Tomorrow's planned activities is to complete spraying the remaining areas with Liquid Boot compound followed by steam testing and cutting out coupons to confirm the thickness of the Liquid Boot.

Remarks:

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Overcast** **Wind: High** **Humidity**

Date: November 14 , 2017 **Time: 0700 – 1500** **Temp: 46**°F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, EAI Environmental

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Backfilling the stone sub base, and install sections of the SSDS pipping.

Site Work Progress:

EAI Environmental was onsite spraying the areas within the building footprint with the Liquid Boot compound.

Tomorrow's planned activities is the complete spraying the remaining areas with Liquid Boot compound followed by steam testing and cutting out coupons to confirm the thickness of the Liquid Boot.

Remarks:

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent **Reviewed By:**
Date:

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Photo 1: Liquid Boot spraying

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Photo 2: Spraying Liquid Boot Compound and laying down the Green GeoLayer barrier.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny** **Wind: light and variable**
Humidity High Med Low

Date: November 15, 2017 **Time: 0800 – 1200**
Temp: 45 - 50 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction, EAI (Liquid Boot)

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: spraying of Liquid Boot over remaining floor sections, smoke testing, liner thickness testing; air monitoring

Site Work Progress:

The remaining floor sections of the new clubhouse interior were lined, sprayed and smoke tested today. All coupons were measured for thickness and all were found to exceed the minimum thickness requirements. Smoke testing was performed to identify areas that were not vapor tight. Multiple areas were found to emit smoke, however all leaks were appropriately sealed before the protective fabric layer was placed over the remaining floor sections. This phase of the Liquid Boot application is now complete.

Remarks:

Air monitoring performed during the course of the day revealed no detections above background on the PID or the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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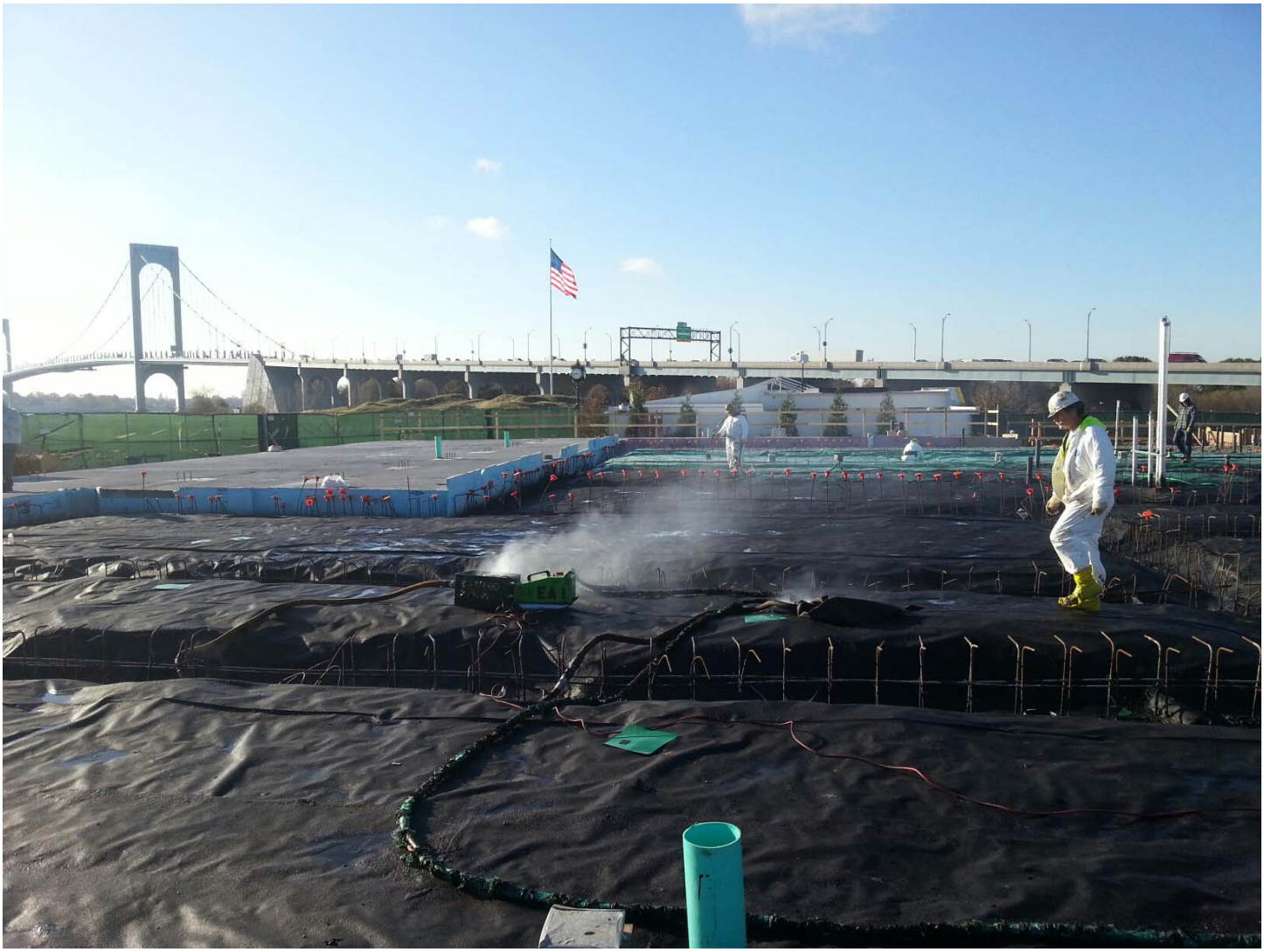

Photo #1: Base layer installation (green fabric), Liquid Boot Spraying and smoke testing in progress.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: light rain ending** **Wind: light and variable**
Humidity High Med Low

Date: November 22, 2017 **Time: 0800 – 1200**
Temp: 55 - 60 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors and JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: steel work by subcontractors; air monitoring and inspection of liquid boot for any damages caused during steel work.

Site Work Progress:

Due to early morning rains limited work is being performed on site. To the extent practical, Maser inspections liquid boot layer for any signs of damage from the steel work that has taken place during the past week. A second round of smoke testing is planned following the completion of steel and re-bar work to verify liquid boot integrity.

Air monitoring performed during the course of the day revealed no detections above background on the 4-gas meter.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo #1: Installation of steel frame work for new clubhouse.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny, Partially cloudy** **Wind: Medium** **Humidity**

Date: November 27, 2017 **Time: 0700 – 1530** High Med Low

Temp: 40 - 45 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse, Clean Soil Fill \Imported to Site, Steel beam frame construction continued.

Activities included: Visual and PID inspection of clean fill imports from New York Recycling 475 Exterior Street.

Site Work Progress:

Soil was filled around the eastern perimeter of the concrete sub-structure (future patio). Prior to filling the soil was visually inspected for any solid debris. The soil was characterized as brown fine-course sand with gravel/rock fragments roughly 1-1.5" in diameter. Once dumped, the fill was visually inspected again and scanned with a PID. All loads were found to be acceptable. Clean fill was imported by DJCI Trucking LLC and IEV Trucking Corp. Two trucks were loaded and unloaded continuously throughout the day. Soil Manifests were completed for all loads.

Remarks:

There were no PID readings recorded on the imported materials. All loads passed visual and PID screenings

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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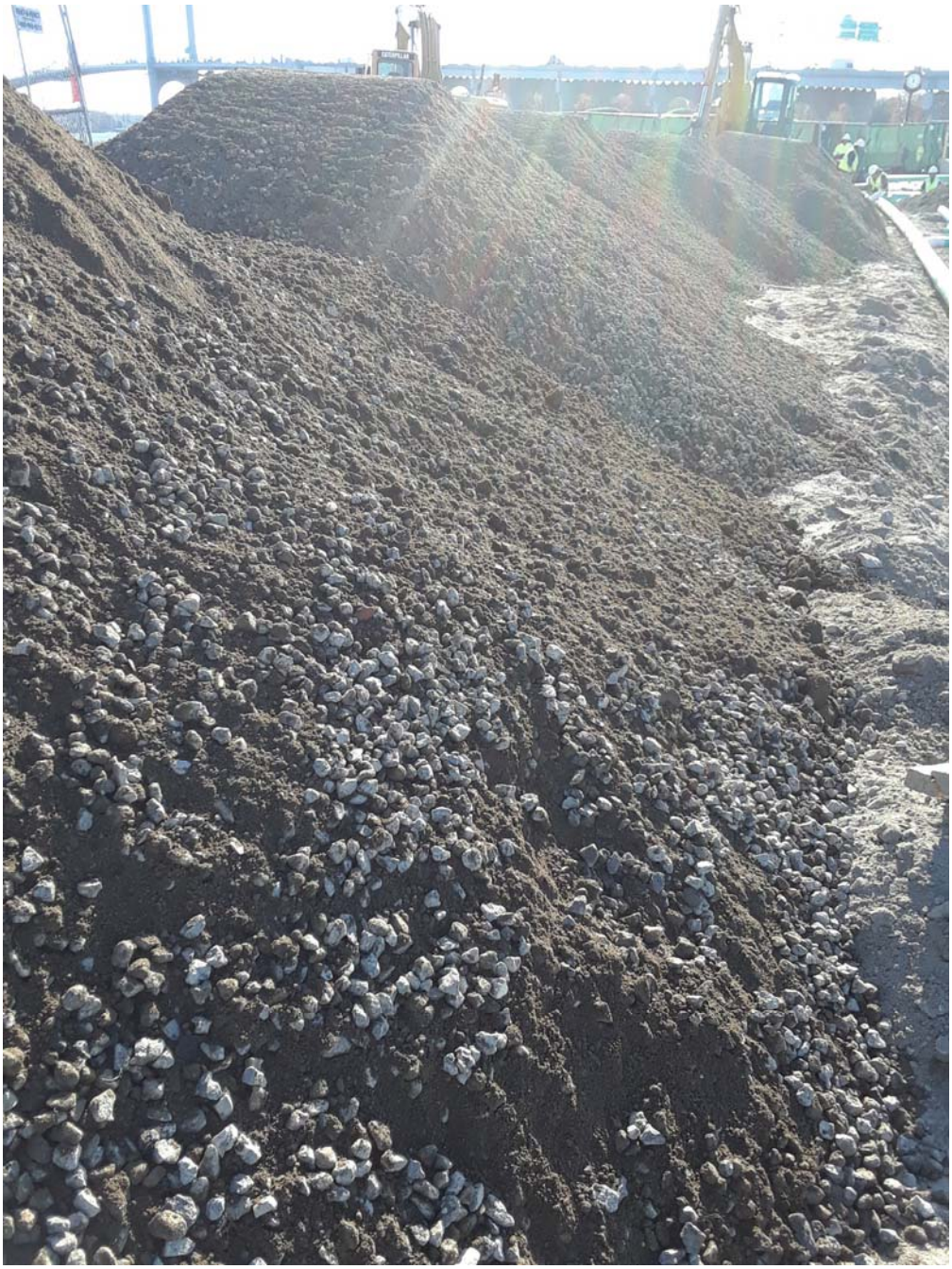

Photo 1: Clean fill imported to the site.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: clear sunny** **Wind: light and variable** **Humidity**

Date: November 29, 2017 **Time: 0800 – 1200** High Med Low

Temp: 55 - 60 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors and JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: steel work by subcontractors; air monitoring and inspection of liquid boot for any damages caused during steel work; importation of two loads of soil from 475 Exterior Street. Weekly Construction Meeting.

Site Work Progress:

Steel work continued. To the extent practical, Maser inspected the liquid boot layer for any signs of damage from the steel work that has taken place during the past week. A second round of smoke testing is planned following the completion of steel work to verify liquid boot integrity.

Air monitoring performed during the course of the day revealed no detections above background on the PID. Visual and PID inspection of two loads for soil from New York Reclycling showed no evidence of VOC's or any visual signs of debris within the material.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo #1: Installation of steel frame work for new clubhouse.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Cloudy** **Wind: Low** **Humidity** High Med (Low)

Date: November 30, 2017 **Time: 0700 – 1430** **Temp: 40 - 45** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse, Clean Soil Fill, Steel beam frame construction

Activities included: Inspection of clean fill.

Site Work Progress:

Approximately 180 yd^3 of clean fill was imported to the site today (10 loads; 18 yd^3 each). Soil was backfilled around the eastern, northern, and western perimeters of the concrete sub-structure. Prior to filling the soil was visually inspected for any solid debris. The soil was characterized as brown fine-course sand with occasional crushed stone roughly 1-1.5" thick in diameter. Once dumped the fill was visually inspected a second time and scanned with a PID. Clean fill was imported by DJCI Trucking LLC and IEV Trucking Corp. Two trucks were loaded and unloaded continuously throughout the day.

Remarks:

Two loads were brought onto the site yesterday November 29, 2017—and segregated for inspection. The loads were visually inspected and scanned with a PID. Manifests for the loads were collected from the truck drivers.

No readings were detected on the PID. No staining or solid waste was observed in any of the imported materials.

Total loads of fill imported: 11/27/2017 (14 Loads), 11/29/2017 (2 Loads), 11/30/2017 (10 Loads)

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By:
Date:

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Photo 1: Clean fill imported to the eastern perimeter being spread and leveled.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny** **Wind: Light** **Humidity** High Med Low

Date: December 4, 2017 **Time: 0700 – 1500** **Temp: 40 - 50** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse, Clean Soil Fill, Steel beam frame construction

Activities included: Inspection of clean fill.

Site Work Progress:

Approximately 126 yd^3 of clean fill was imported to the site today (7 loads; 18 yd^3 each). Soil was backfilled around the north-northwestern perimeter of the building. Prior to filling the soil was visually inspected for any debris. The soil was characterized as brown fine-course sand with recycled crushed concrete stone 1-1.5" thick in diameter. Once dumped the backfill material was scanned with a PID. Clean fill was imported by DJCI Trucking LLC. There was only one truck running throughout the entire day.

Remarks:

No readings were detected on the PID. No staining or solid waste was observed in any of the imported materials.

All material imported for the day passed visual and PID inspections.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Eric Sergent

Reviewed By:
Date:

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Photo 1: Clean fill pile once off-loaded from truck.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M (T) W TH F SA SU **Weather: Mostly Cloudy** **Wind: Moderate** **Humidity** High (Med) Low

Date: December 5, 2017 **Time: 0700 – 1500** **Temp: 45** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse, Clean Soil Fill, Steel beam frame construction

Activities included: Inspection of clean fill imports.

Site Work Progress:

Approximately 108 yd^3 of clean fill was imported to the site today (6 loads; 18 yd^3 each). Soil was backfilled around the north-northwestern corner of the building. Prior to filling the soil was visually inspected for any large debris within the material. The soil was characterized as brown fine-course sand with recycled crushed concrete stone 1-1.5" thick in diameter. Once dumped the backfill material was scanned with a PID. Clean fill was imported by DJCI Trucking LLC. There was only one truck running throughout the entire day.

Remarks:

No readings were detected on the PID. No staining or solid waste was observed in any of the imported materials.

All material imported for the day passed visual and PID inspections.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Eric Sergent

Reviewed By:
Date:

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Photo 1: Clean fill pile staged along the northern perimeter of the construction site.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: clear sunny** **Wind: steady wind** **Humidity**

Date: December 6, 2017 **Time: 0800 – 1200** High Med Low

Temp: 40-45 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors and JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: steel work by subcontractors; air monitoring and inspection of liquid boot for any damages caused during steel work; Weekly Construction Meeting.

Site Work Progress:

Steel work continued. To the extent practical, Maser inspected the liquid boot layer for any signs of damage from the steel work that has taken place during the past week. Several areas were identified where the liquid boot barrier had been compromised/cut to facilitate steel work. A second round of smoke testing is planned following the completion of steel work to verify liquid boot integrity. Smoke testing is tentatively scheduled for December 8.

Air monitoring performed during the course of the day revealed no detections above background on the PID. Visual and PID re-inspection of previously-delivered soils from New York Reclycling showed no evidence of VOC's or any visual signs of debris.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo #1: depicts liquid boot barrier having been cut to facilitate steel work. Repairs required.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Mostly sunny** **Humidity**

Date: December 7, 2017 **Time: 6 : 10 am** High (Med) Low

Temp: 37-45 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G; DJCI (soils transporter)

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: Soils Importing

Site Work Progress:

Importation of 7 loads of soil (~ 126 cubic yards) from New York Recycling, a donor source located at 475 Exterior Street in the Bronx. Air monitoring performed during the course of the workday revealed no detections above background on the photoionization detector (PID). Visual observation and PID monitoring of each load of soil from New York Recycling showed no evidence of VOCs or visual signs of debris within the material.

Imported soil was backfilled and graded around the northern and eastern perimeters of the concrete sub-structure. The soil was characterized as brown fine-course sand with occasional crushed stone roughly 1-1.5 inches thick in diameter. Fill was imported by DJCI Trucking LLC, with a single truck loaded and unloaded throughout the day.

A fire extinguisher was present near work activities. A Royal Carting 4-cubic yard municipal solid waste (MSW) commercial container was present near the work area, should MSW be generated from construction activities. A walkdown of the soil stockpiles for erosion and sediment control was conducted, with the haybales and tarps found to be satisfactory.

Tomorrow's planned activities include continuation of soils importing from New York Recycling, and EAI resuming smoke testing and repairs of the vapor barrier.

Remarks:

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Donald Bowman, P.E. Donald Bowman

Reviewed By:
Date:

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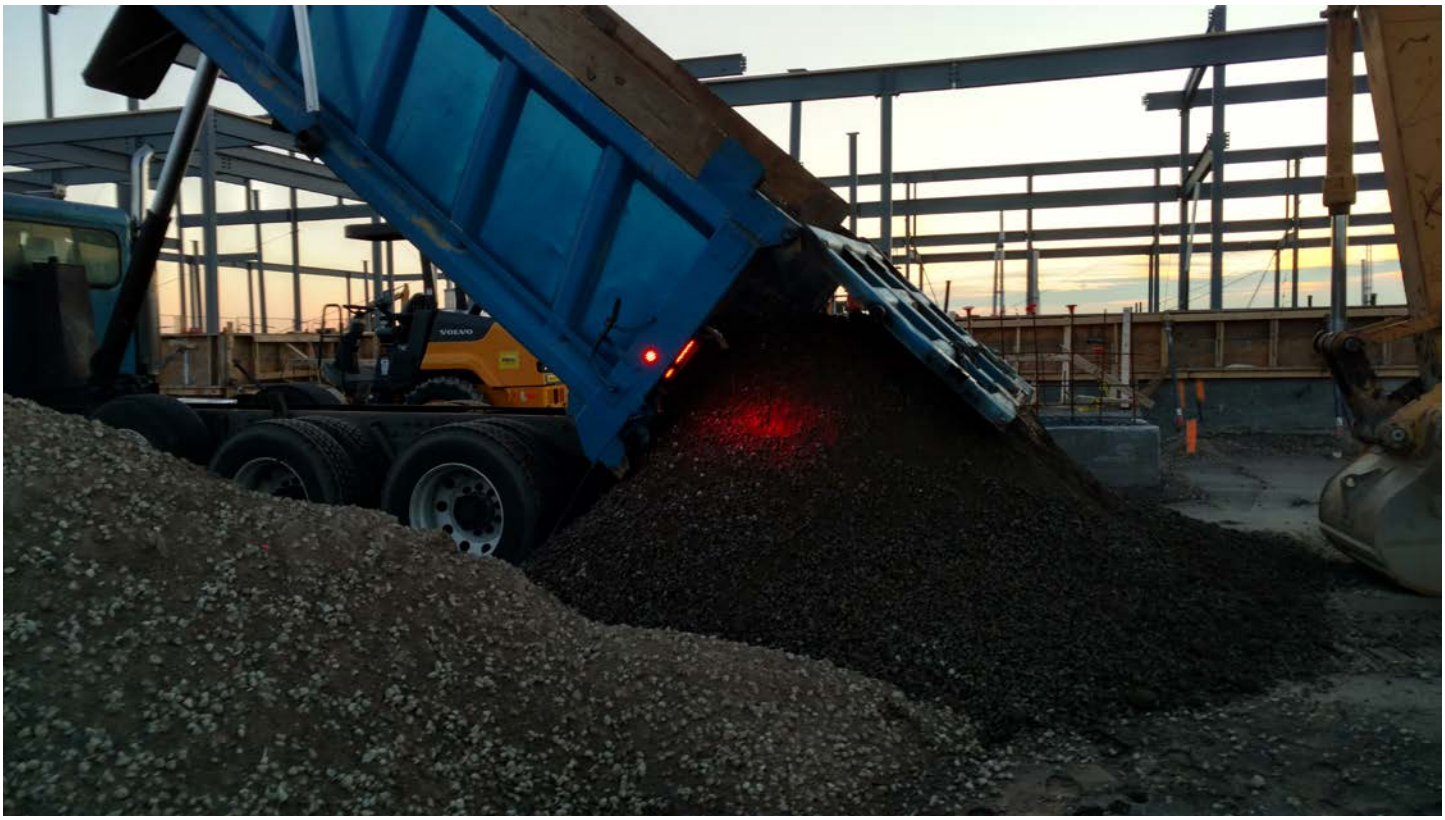

View of first load of soil imported from New York Recycling being tipped by DJCI (12/07/2017)

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View of afternoon loads of soils imported from New York Recycling after being tipped by DJCI, with area graded by morning loads of soil on the right (12/07/2017)

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View of clubhouse eastern footprint, showing Liquid Boot® and its cover fabric (12/07/2017)

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View of clubhouse western footprint, showing Liquid Boot® and its cover fabric (12/07/2017)

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: Mostly Cloudy** **Wind: Moderate** **Humidity** High Med (Low)

Date: December 8, 2017 **Time: 0600 – 1500** **Temp: 30-40 °F**

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction, DJCI Trucking (Soil Transpiration), EAI Environmental

Active Site Work Areas: Construction site for proposed new Clubhouse, Clean Soil Fill, Steel beam frame construction

Activities included: Inspection of clean fill.

Site Work Progress:

One DJCI truck was running throughout the day hauling in approximately 108 yd^3 of clean fill to the site today (6 loads; 18 yd^3 each). Visual observation and PID monitoring of each load of soil from New York Recycling showed no evidence of VOC's or signs of large debris within the soil.
The soil was characterized as brown fine-course sand with recycled crushed concrete stone 1-1.5" thick in diameter.
Imported soil was dumped and stock piled on the south-southwest side of the building. Some of the imported soil was used for backfilling around the steps leading to the patio bar and grill area on the eastern side of the clubhouse. Backfilling was completed using 1ft lifts and compacted using a jumping jack compactor.
EAI was onsite today to perform spot treatment of all locations where the LiquidBoot barrier was damaged causing holes to be put in the LiquidBoot. Smoke testing was performed a second time to help in locating all damaged areas of the Liquid Boot.
EAI said no coupon thickness testing was required because everything already passed the thickness test during the first smoke test.
The plan for Monday December 11th 2017, is for the steel structure of the building to continue being put up as well as the rebar for the floor slab to begin being installed.

Remarks:

No readings were detected on the PID. No staining or solid waste was observed in any of the imported materials.

All material imported for the day passed visual and PID inspections.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Eric Sergent

Reviewed By:
Date:

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Photo 1: Truck #1 dumping imported clean fill.

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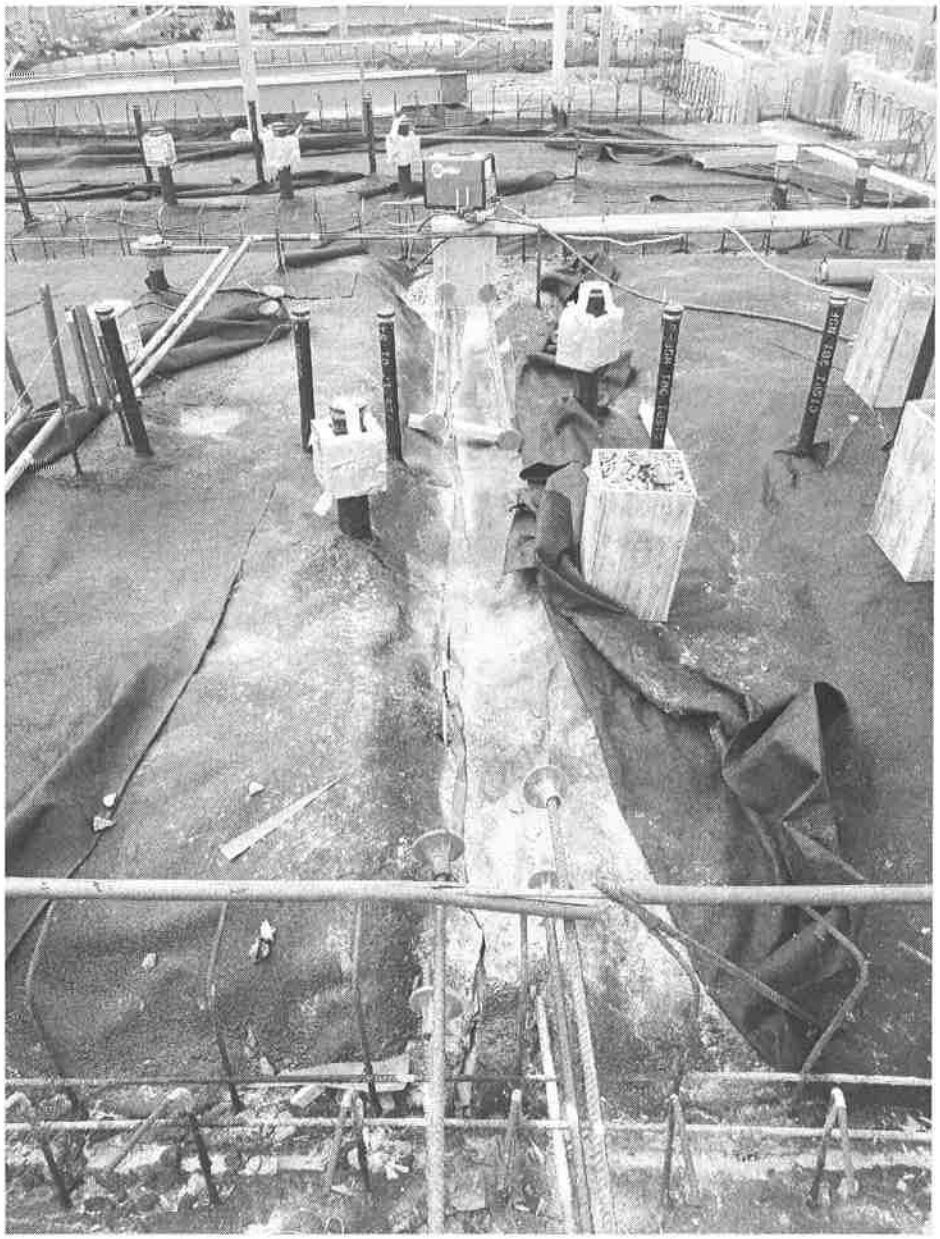

Photo 2: Area for Liquid Boot to be resprayed.

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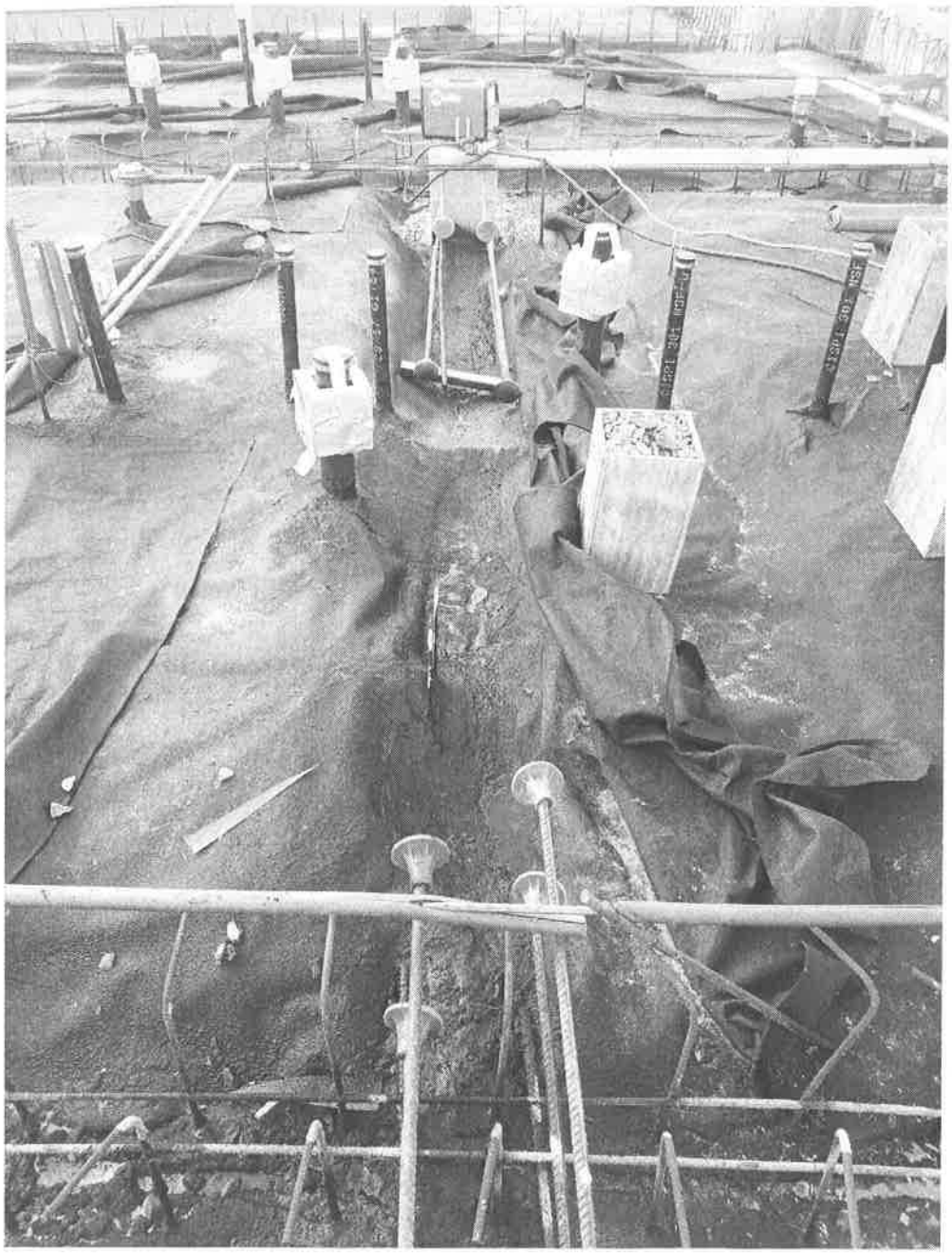

Photo 3: Resprayed area from Photo #2.

Location Trump Golf Links Date 12/8/17

Project / Client Ferry Point

MC# 17002426 A Pg. 1 of 2

6:00 - Eric Sergent arrives onsite.

6:25 - DJCT truck #1 arrives onsite Plate#: 69405ME Truck ID#: 24

7:00 - Load #1 of imported fill dumped, 0.0 on PID, no debris observed, 18 cy - Ticket # 134317

830 - Load #2 imported fill dumped, 0.0 PID reading, no debris observed, 18 cy - Ticket # 134327

950 - Load #3 imported fill dumped, 0.0 PID reading, no debris observed, 18 cy, Ticket # 134342

(*) EAI arrived on site around 800AM. Current temp is 36°F w/ a HIGH - 40°F. Liquid Boot compound was stored outside for the night w/ Heat cords, Heating Blankets + Tarps.

(*) 900 - EAI Begin Smoke Test

(*) EAI said No coupon testing b/c Everything already passed smoke test

Scanned by CamScanner

Location

Date 12/8/17

Project / Client Trump Links Golf Ferry Point

MC #: 17002426A

1100 - Load #4 imported fill dumped, 0.0 PID Reading, no debris observed, 18 cy, Ticket #134348

1210 - Load #5 imported fill dumped 0.0 PID Reading, no debris observed, 18 cy, Ticket # 134362

1345 Load #6 imported fill dumped 0.0 PID Reading, no debris observed, 18 cy, Ticket #.

* 1215 - EAI completed smoke testing and spot treatment of any + all holes caused when the steel was being erected.

* 2nd smoke test *

* Potential 3rd smoke test after * the floor slab rebar is put in.

1245 - EAI Leaves site.

1430 - E. Sergent departs site.

Scanned by CamScanner

TK#: 134317

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. NY 1054

Date: 12/8/17 Time: 6:01 AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10541 Block/Lot: 134317

Owner of Excavation Site:

Operator of Excavation Site: Has Excavation Site been Tested for Contamination: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Dan Bowman Received:

Load Identifier: License No.: 69405 ME Load No.: 1-Total-48 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Sand w/ recycled concrete 1"-1½"

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: 12/8/17 Sample No.:

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

Scanned by CamScanner

TK# 134327

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: _____ Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: JUAN Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: JUAN Rivas Company: Triple G.

Address: 300 Hutchinson River Pkwy Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. 10541

Date: 12/8/17 Time: 7:59AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No. If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10541 Block/Lot: 134327

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman Received:

Load Identifier: License No.: _____ Load No.: Z - Total 49 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: 12/8/17 Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

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TX# 134342

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: _____ Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G

Address: 300 Hutchinson River Pwy. Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street Bronx. 10451

Date: 12/8/17 Time: 9:11AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No. If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx. NY 10451 Block/Lot: 134342

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

upervisor Name: Don Bowman Received:

oad Identifier: License No.: _____ Load No.: 3-Total 50 Estimated Volume: 18 *Cubic Yards*

laced in Stockpile Bin No.:

asic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

mple Collected By (Name): _____ Date: 12/8/17 Sample No.: _____

sults Received By (Name): _____ Date: _____

mpling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

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TKT# 134348

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rios
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rios Company: Triple G

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. 10451

Date: 12/8/17 Time: 10:18AM Truck License Plate No.: 69405 MF State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10451 Block/Lot: 134348

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Dan Bowman Received:

Load Identifier: License No.: _____ Load No.: 4-Total-51 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: 12/8/17 Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

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TK# 134362

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: _ Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: HUAN RIVAS
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: HUAN RIVAS Company: Triple G.

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. 10451

Date: 12/8/17 Time: 11:28AM Truck License Plate No.: 69405 MC State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10451 Block/Lot: 134362

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bouman Received:

Load Identifier: License No.: _____ Load No.: 5-Total-52 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: 12/8/17 Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

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TK# 134369

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G.

Address: 300 Hutchinson River Pkwy. Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. 10451

Date: 12/8/17 Time: 12:43pm Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results
☐ No. If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10451 Block/Lot: 134369

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bauman Received:

Load Identifier: License No.: Load No.: 6-Tota-53 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: 12/8/17 Sample No.:

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: partly cloudy** **Wind: high winds** **Humidity**

Date: December 13, 2017 **Time: 0900 – 1130** High Med Low

Temp: 20-25 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors and JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: steel work by subcontractors; inspection of liquid boot for any damages; Weekly Construction Meeting.

Site Work Progress:

Steel work continued. Maser inspected the liquid boot layer for any signs of damage since the smoke testing of December 8. All areas inspected appeared to be intact. A third and final smoke test is planned for the week of December 18.

Air monitoring performed revealed no detections above background on the PID.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo #1: steel frame superstructure of the new clubhouse .

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast skies** **Wind: light** **Humidity**

Date: December 18, 2017 **Time: 0600-1200** High Med Low

Temp: 30-38 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction, NV5 (Re-bar work, concrete pour, concrete testing); EAI (smoke testing)

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: reinforcing bar installation by subcontractors; smoke testing by EAI, air monitoring and concrete pouring.

Site Work Progress:

Steel reinforcing bar installation continued on the south side of the new clubhouse; smoke testing of the vapor barrier was completed in advance of the concrete pour. Smoke testing revealed several areas of the liquid boot barrier to have been compromised during the re-bar installation. All vapor barrier defects were properly repaired with trowel grade by EAI in advance of the concrete pour. This was the third and final round of smoke testing.

Air monitoring revealed no detections above background on the PID.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo #1: smoke testing was conducted following the installation of re-bar; concrete trucks in background preparing for a pour.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast skies** **Wind: light** **Humidity**

Date: December 22, 2017 **Time: 0900-1100** High Med Low

Temp: 25 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general

Site Work Progress:
Inspection of Erosion Control measures at clubhouse construction site and soil stockpile in parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: partly cloudy skies** **Wind: light** **Humidity**

Date: December 27, 2017 **Time: 0900-1100** High Med Low

Temp: 20 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general

Site Work Progress:

Inspection of Erosion Control measures at clubhouse construction site and soil stockpile in parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny** **Wind: light** **Humidity** High Med Low

Date: January 3, 2018 **Time: 0900-1100** **Temp: 20** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks; weekly construction meeting; erosion control inspection

Site Work Progress:

Inspection of Erosion Control measures at clubhouse construction site and soil stockpile in parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Soil Stockpile in Parking Lot

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny** **Wind: light** **Humidity** High Med Low

Date: January 10, 2018 **Time: 1000-1100** **Temp: 30** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Triple G Contractors, JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks; weekly construction meeting; erosion control inspection

Site Work Progress:

Inspection of Erosion Control measures at clubhouse construction site and soil stockpile in parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Soil Stockpile in Parking Lot

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: snow** **Wind: light** **Humidity**

Date: January 17, 2018 **Time: 1000-1200** **Temp: 34** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks; weekly construction meeting; erosion control inspection

Site Work Progress:

Inspection of Erosion Control measures at clubhouse construction site and soil stockpile in parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Progress on New Club House

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Photo 2: Sediment control features in catch basins

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: snow** **Wind: 20mph** **Humidity**

Date: January 24, 2018 **Time: 0900-1500** **Temp: 30-35** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, EAI (for SSDS piping modifications), Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks; weekly construction meeting; erosion control inspection, oversight of SSDS piping modifications.

Site Work Progress:

Inspection of Erosion Control measures at clubhouse construction site and soil stockpile in parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: SSDS vertical piping relocated. Pipe was moved to be enclosed inside an interior wall of the new clubhouse.

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Photo 2: Workers secure tarps on soil stockpile in parking area

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: snow** **Wind: light** **Humidity**

Date: January 25, 2018 **Time: 0800-0900** **Temp: 25** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks

Site Work Progress:

Arrived at the site to meet EAI to complete the work to relocate SSDS risers. JCS reports that EAI will not be on-site today. JCS to notify Maser when EAI will be back on-site (probably next week).

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Work Progress at New Club House

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: clear** **Wind: moderate** **Humidity**

Date: January 31, 2018 **Time: 0900-1100** **Temp: 25** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks, weekly construction meeting, erosion control measures inspection

Site Work Progress:

General work tasks at new club house, weld inspections. Weekly construction meeting, inspection of former aeration core disposal area and former excavation site near the 7th green.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Work Progress at New Club House

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Photo 2: Soil stockpile in parking area

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: snow/rain** **Wind: moderate** **Humidity**

Date: February 7, 2018 **Time: 1130 - 1400** **Temp: 30** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks, weekly construction meeting, erosion control measures inspection

Site Work Progress:

General work tasks at new club house were being performed by subcontractors. Limited work force was on-site due to the weather. Weekly construction meeting, inspection of erosion control measures, inspection of former aeration core disposal area and former excavation site near the 7th green.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Customer Loyalty through Client Satisfaction.

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Photo 1: Work Progress at New Club House

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Photo 2: Soil stockpile in parking area. Contractor to re-tarp and secure hay bails folowing the storm.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: clearing skies** **Wind:light**
Humidity

Date: February 14, 2018 **Time: 0900 - 1200** High Med Low
Temp: 45 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks, weekly construction meeting, erosion control measures inspection

Site Work Progress:

Club House: General work tasks being performed by subcontractors.
Weekly construction meeting, inspection of erosion control measures, inspection of former aeration core disposal area and former excavation site near the 7th green.

New silt fence was installed around the soil stockpile in the parking lot. New tarps and tarp anchors were placed over the same stockpile. Storm sewer sediment traps were also cleaned and replaced.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Work Progress at New Club House

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Photo 2: Soil stockpile in parking area. New silt fence installed; new tarps securely cover the pile.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: rain** **Wind:light** **Humidity**

Date: February 22, 2018 **Time: 1000 - 1200** **Temp: 45** °F (High) Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks, oversight of EAI SSDS modifications

Site Work Progress:

Eai was a no-show today. Informs JCS they will be on-sitre tomorrow for SSDS modifications

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Dave Keil **Reviewed By:**
Date:

Photo 1: Work Progress at New Club House

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: light rain** **Wind:light** **Humidity**

Date: February 23, 2018 **Time: 0700 - 1300** **High Med Low**

Temp: 35 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks, erosion control measures inspection, oversight of EAI SSDS piping modifications

Site Work Progress:

Club House: General work tasks being performed by subcontractors. EAI modifies SSDS riser pipes inside the clubhouse. Makes ceiling and roof penetrations at two locations.

Weekly inspection of erosion control measures, inspection of former aeration core disposal area and former excavation site near the 7th green.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Work Progress at New Club House

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Photo 2: SSDS Ceiling penetration (typical)

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: partly cloudy** **Wind:light** **Humidity**

Date: February 28, 2018 **Time: 0900 - 1200** High Med Low

Temp: 50 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks, erosion control measures inspection, weekly construction meeting

Site Work Progress:

Club House: General work tasks being performed by subcontractors.

Weekly inspection of erosion control measures, inspection of former aeration core disposal area and former excavation site near the 7th green.

Two (2) piles of sand were observed in the construction area. It was reported—and observed—that the sand is being used to mix mortar for brick-laying.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Imported sand being mixed to make mortar.

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Photo 2: Soil Stockpile in parking lot

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny & clear** **Wind:light** **Humidity**

Date: March 6, 2018 Time: 0800 - 1600 High Med Low

Temp: 40-45 °F

Name of Project: Trump Golf Links – Ferry Point Park Municipality: Bronx, NY Job No: 17002426A

Site Contractors: JCS Construction, Triple G, IEV Trucking

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks, soil importation from New York Recycling, trenching of new electical conduit for clock tower relocation, oversight of EAI SSDS installations

Site Work Progress:

Club House: General work tasks being performed by subcontractors including roof shingles and cupola installation

No SSDS work was conducted as EAI was not on-site as scheduled.

Inspection of former aeration core disposal area and former excavation site near the 7th green. Tarps and sand bags for the soil stockpile in the Parking Lot were being secured inadvance of tomorrow's forecast nor'easter.

Soil importation from New York Recylcing: a total of 108 cubic yards in 6 loads. Maser visited New York Recycling to confirm that stockpiled materials from that facility (which were sampled in September 2017) were still being used as the source of fill material for the new club house construction site.

Trenching for the installation of new electrical conduit to the new location of the clock tower. Trench is approximately 40 feet long, 2 feet deep, 18 inches wide. No obervations of demarcation layer, odors, smells, debris or PID readings.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo 1: Soil Importation from New York Recycling. 108 cubic yards delivered in 6 loads.

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Photo 2: New electrical conduit trench for the relocation of the clock tower.

Photo 3: Dump Truck bound for Trump Links Ferry Point being loaded at New York Recycling 475 Exterior Street, Bronx, NY. Dedicated bays with materials from the "Trump Pile" appear on the right side to the photograph.

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Photo #4: IEV Truck leaving New York Recycling with materials bound for the new Club House site at Trump Links, Ferry Point.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: increasing clouds** **Wind:light** **Humidity**

Date: March 8, 2018 Time: 0800 - 1200 High Med (Low)

Temp: 35- 40 °F

Name of Project: Trump Golf Links – Ferry Point Park Municipality: Bronx, NY Job No: 17002426A

Site Contractors: JCS Construction, Triple G

Active Site Work Areas: Construction site for proposed new Clubhouse

Activities included: general work tasks, excavation to install the new foundation for the soon-to-be relocated clock tower, weekly construction meeting.

Site Work Progress:

Club House: General work tasks being performed by subcontractors.

Assessment of tarps covering the soil stockpile in the Parking Lot and other erosion control features. All found to be in satisfactory condition-with only minor displacements--following yesterday's nor'easter. Recommended to JCS that the tarp anchors be re-adjusted at the earliest opportunity.

Excavation for the installation of the new clock tower foundation was completed. The excavation is approximately 4 feet long, 4 feet wide and 4 feet deep. No groundwater, debris, smells or wastes were observed. The demarcation barrier was not encountered. Surplus cover and shaping material is being stockpiled adjacent to the construction area until it is ready to be used on-site and appropriately covered.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo #1: Excavation of the foundation for the soon-to-be-relocated clock tower

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Photo #2: post storm condition of the soil stockpile in the parking lot

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Photo #3: Work progress at the new club house. Concrete in foreground-derived from the perimeter sidewalk-is scheduled to be transported off-site for recycling.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny/Partially Cloudy** **Wind: moderate** **Humidity** High Med Low

Date: March 12, 2018 Time: 0900 - 1230 **Temp: 40 - 45** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: EAI, Inc., JCS Construction, Triple G

Active Site Work Areas: Maintenance Building, Two (2) Comfort Stations, Construction site for Clubhouse

Activities included: Methane Detection Alarm System Upgrading, Erosion Control Measures Inspection

Site Work Progress:

General documentation of methane detection improvements at the comfort stations and maintenance building. Note one of the comfort stations was off-site and owned by Ferry Point Park. Victor and Mike from EAI made the improvements to the system, which consisted of installing a RACO Thervotim into the sytem. This improved system is designed to send an alert message to monitors indicating a system malfunction.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato **Reviewed By:**
Date:

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Photo 1: Trump Golf Links Comfort Station

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Photo 2: Control System Installed.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sun with increasing clouds** **Wind: light** **Humidity** High Med Low

Date: March 14, 2018 Time: 0900 - 1130 **Temp: 40 - 45** °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS Construction, Triple G

Active Site Work Areas: Construction site for Clubhouse

Activities included: general work tasks being performed by subcontractors; weekly construction meeting, erosion control inspections

Site Work Progress:

General work tasks being performed by contractors; weekly erosion control inspections performed. No soil importation today. No SSDS work by EAI. Inspection of former aeration core and excavation areas.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Construction progress at the new Club House

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Photo 2: Surplus Cover/Shaping material from the Clock Tower electrical trench. Material will be re-used on site and covered

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Snow** **Wind: moderate** **Humidity**

Date: March 21, 2018 Time: 1000 - 1100 High Med Low

Temp: 30 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: No site contractors on-site today. All work cancelled due to weather

Active Site Work Areas: No active site work is being conducted today.

Activities included: weekly construction meeting cancelled. Inspection of erosion control features to the extent practical.

Site Work Progress:

Due to weather, no site work is being performed today. Inspection of former aeration core and excavation areas.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Construction progress at the new Club House

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Photo 2: Soil Stockpile in the parking lot

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: clear, sunny** **Wind: light** **Humidity**

Date: March 23, 2018 Time: 1100 - 1300 High Med Low

Temp: 50 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior work at the new club house continues. General storm clean-up activities have been completed

Activities included: Inspection of erosion control features.

Site Work Progress:

Interior work at the new club house continues.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo 1: Construction progress at the new Club House

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Photo 2: Soil Stockpile in the parking lot. JCS informed to re-tarp the pile.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast** **Wind: light** **Humidity**

Date: March 28, 2018 Time: 0930 - 1200 High Med Low

Temp: 45 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior work at the new club house.

Activities included: Inspection of erosion control features, weekly construction meeting

Site Work Progress:

Interior work at the new club house continues.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

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Photo 1: Construction progress at the new Club House

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast/fog/rain** **Wind: light** **Humidity**

Date: April 4, 2018 **Time: 0930 - 1400** High Med Low

Temp: 45 - 50 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior work at the new club house.

Activities included: Inspection of erosion control features, weekly construction meeting, oversight of new cart path excavations.

Site Work Progress:

Interior work at the new club house continues. Excavation for new cart path installation at the rear of the clubhouse.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Stakes marking out the proposed new cart path at the rear of the new club house.

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Photo 2: shallow excavations in cover material for the installation of the new cart path.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather:clear skies** **Wind: windy/gusty** **Humidity**

Date: April 5, 2018 **Time: 0800 - 1530** High Med Low

Temp: 45 - 50 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior work at the new club house.

Activities included: Inspection of erosion control features, oversight of new cart path excavations, soil importation

Site Work Progress:

Interior work at the new club house continues. Excavation for new cart path installation at the rear of the clubhouse continues. Soil importation: soils from NY Recycling, transporation by IEV Trucking. Total imported today 135 cubic yards in 5 loads.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Shallow excavations for new cart path along the 18th fairway at rear of new clubhouse.

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Photo 2: Third of five (5) 27 cubic yard loads delivered today. Total 135 cubic yards delivered today.

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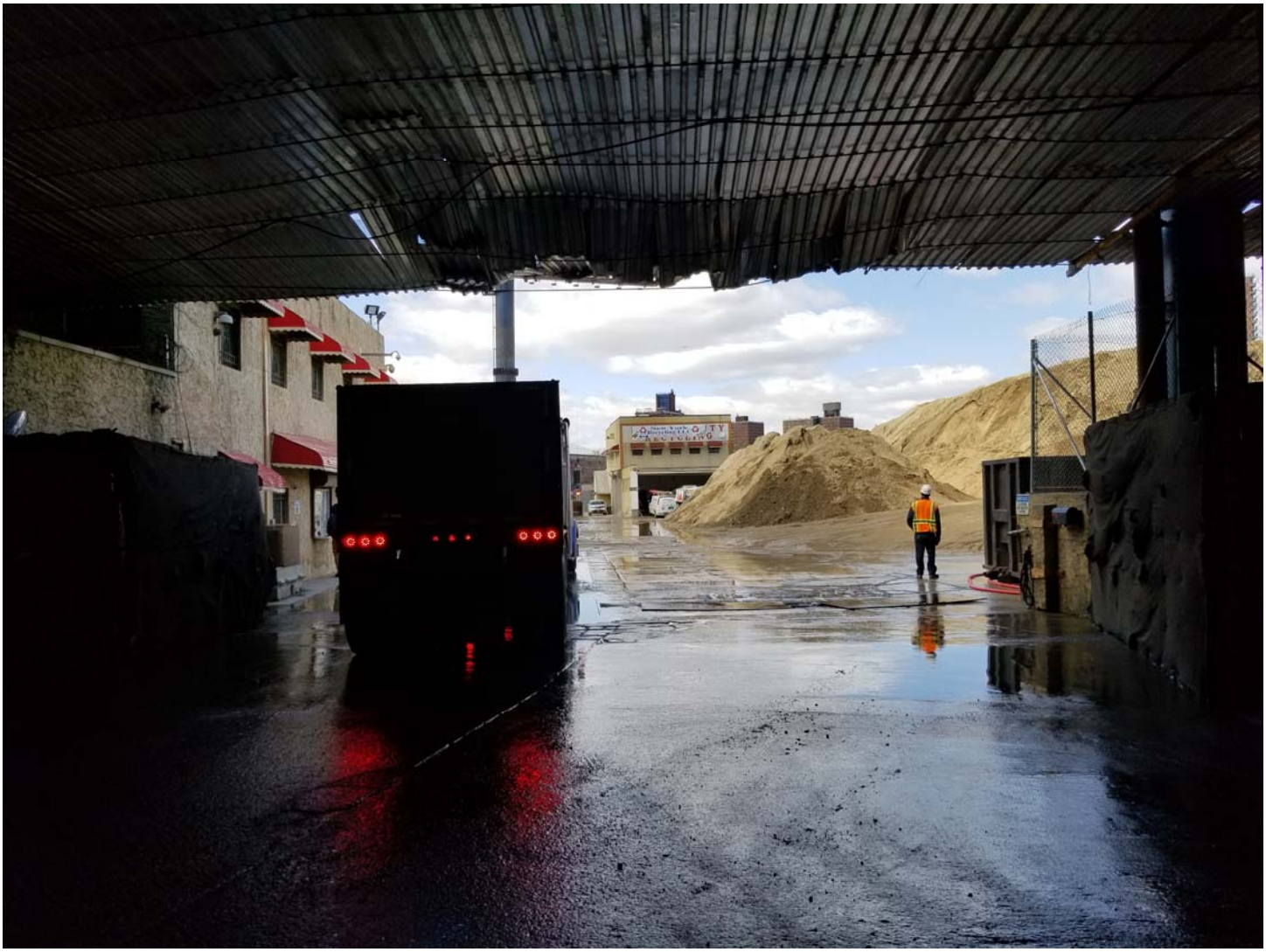

Photo 3: IEV Truck at New York Recycling for soil pick-up.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly clear skies** **Wind: breezy** **Humidity**

Date: April 9, 2018 **Time: 0930 - 1200** High Med Low

Temp: 45 - 50 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior work at the new club house.

Activities included: Inspection of erosion control features, oversight of new cart path excavations, soil stockpile in parking lot

Site Work Progress:

Interior work at the new club house continues. Excavation for new cart path installation at the rear of the clubhouse continues. Soil from the parking lot was originally scheduled to be re-used on site today. Contractor reports that parking lot soil stockpile might be used later in the week or next week. .

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Shallow excavations for new cart path along the 18th fairway at rear of new clubhouse.

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Photo 2: View of club house rear yard with new cart path being installed.

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Photo 3: Soil pile from the parking area is schedule for re-use on site in the near future. This material is classified as shaping material.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: most sunny skies** **Wind: light breeze** **Humidity**

Date: April 11, 2018 **Time: 0930 - 1430** High Med Low

Temp: 45 - 55 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior work at the new club house.

Activities included: Inspection of erosion control features, oversight of new cart path excavations, soil stockpile in parking lot

Site Work Progress:

Interior work at the new club house continues. Excavation for new cart path installation at the rear of the clubhouse continues. Soil from the parking lot was originally scheduled to be re-used on site this week. Contractor reports that parking lot soil stockpile might be used later in the week or next week. Soil which was imported from NY Recycling last week is being distributed at the rear of the clubhouse to bring elevations closer to final grade.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Shallow excavations for new cart path along the 18th fairway at rear of new clubhouse.

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Photo 2: View of club house rear yard with new cart path being installed.

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Photo 3: Soil pile from the parking area is schedule for re-use on site in the near future. This material is classified as shaping material.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: most cloudy skies** **Wind: light breeze** **Humidity**

Date: April 18, 2018 **Time: 0930 - 1430** High Med Low

Temp: 45 - 55 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Activities included: Inspection of erosion control features, oversight of new cart path excavations, soil stockpile in parking lot, weekly construction meeting and trenching for installation of storm water system

Site Work Progress:

Interior work at the new club house continues. There were no new excavations for new cart path installation at the rear of the clubhouse. Soil from the parking lot was originally scheduled to be re-used on site this week. This work has been delayed until next week. Contractor will provide Maser with advanced notice of the work schedule. Trenching for the installation of pipe for the stormwater system is underway. Trenching is through soils imported from NY Recycling. No indication of any MSW or debris in the trenches. No odors or PID readings.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo 1: Shallow excavations for stormwater transmission at front of new clubhouse.

Photo 2: View of club house rear yard in area of new cart path.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: most sunny skies** **Wind: light breeze** **Humidity**

Date: April 23, 2018 **Time: 1300 - 1600** High Med Low

Temp: 60 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Activities included: oversight of new cart path installation

Site Work Progress:

Interior work at the new club house continues. There were no new excavations for the cart path installation at the rear of the clubhouse. However a 6-inch layer of crushed stone and 4 inches of asphalt was installed along a 600 foot long pathway at the rear of the club house for the new cart path. A 2-inch thick layer of sealing material will be applied over the asphalt according to the contractor. Once completed, this will bring the total cover thickness to 12-inches. Soil from the parking lot stockpile remains in the parking lot—although there are plans to re-use this material on the construction site soon. Contractor will provide Maser with advanced notice of the work schedule. Trenching for the installation of pipe for the stormwater system has been completed. There were no obsevations of MSW, the demarcation barrier or debris in the trenches. Surplus materials are being stockpiled and temporarily covered before re-use on site. No odors or PID readings recorded.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo 1: New golf cart path at rear of new Club House.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: rain** **Wind: breezy** **Humidity**

Date: April 25, 2018 **Time: 1200 - 1400** **Temp: 50** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, EAI

Active Site Work Areas: Interior and exterior work at the new club house.

Activities included: installation of SSDS piping inside the new clubhouse

Site Work Progress:

EAI informed Maser (via e-mail this morning) that they would be in-site today to resume installation of the piping in the SSDS system. Work involved the SSDS pit on the southern side of the builing

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: New SSDS piping and blower installation above the new offices at the Club House.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: most sunny skies** **Wind: breezey** **Humidity**

Date: April 26, 2018 **Time: 1000 - 1500** High Med Low

Temp: 55-65 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, EAI

Active Site Work Areas: Interior and exterior work at the new club house.

Activities included: weekly construction meeting, movement of soils, SSDS piping, blower and monitor installation. Inspection of Erosion Control meaures.

Site Work Progress:

EAI resumed the installation of SSDS piping by installing the riser on the northern SSDS pit into the utility spaces above the new offices. Piping for the southern SSDS pit was also configured and later connected to the SSDS blower. SSDS monitors were also installed. SSDS Sensors will be installed once their proposed new locations are reviewed and approved.

Soils (imported earlier from NY Recycling) were relocated from the front of the clubhouse to the rear of the building—to elevate the grade levels. Soils from the parking lot stockpile remain in-place in the parking lot.

Minor trenching work was implemented for the irrigation system between the club house and the new cart path. Excavations were shallow (12”) and through soils that were relocated to the rear of the building—with no potential to encounter MSW.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: SSDS monitors installed in the utility space above the new offices.

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Photo: 2 SSDS blower installed in the utility space above the new offices.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: light rain** **Wind: light** **Humidity**

Date: April 27, 2018 **Time: 1300 - 1430** **Temp: 55** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, EAI

Active Site Work Areas: Interior and exterior work at the new club house.

Activities included: EAI running electrical conduits for the SSDS sensors.

Site Work Progress:

EAI continued the installation of SSDS components by installing the electrical conduits for the sensors above the ceiling of the new offices, bathrooms etc. The actual SSDS Sensors will be installed once their proposed new locations are reviewed and approved.

There was no re-use of the soil stockpile in the parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: SSDS monitors installed in the utility space above the new offices.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: hot & humid** **Wind: light** **Humidity**

Date: May 4, 2018 **Time: 1300 - 1430** **Temp: 75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Activities included: Grading of area behind the clubhouse. Installation of filter fabric to provide drainage channels--prior to movement of soils from soil stock-pile in the parking lot.

Site Work Progress:

No new work on the SSDS this week. Some grading at the rear of the clubhouse took place today to accommodate the eventual movement of stockpiled soils from the parking lot to the rear of the clubhouse. Installation of filter fabric at the rear of the clubhouse—between club house and the new cart path.

There was no re-use of the soil stockpile in the parking lot this week.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: grading activities at the rear of the clubhouse .

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Photo #2: installation of filter fabric and crushed stone to facilitate drainage.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: warm & sunny** **Wind: light** **Humidity**

Date: May 7, 2018 **Time: 1200 - 1430** High Med Low

Temp: 75 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, Rinaldi

Active Site Work Areas: Interior and exterior work at the new club house.

Activities included: Re-use of soil stockpile in the parking lot; transport material to rear of clubhouse and used to increase the grade elevation.

Site Work Progress:

Contractor Rinaldi used a backhoe and small dump truck to begin the re-use process for soils stockpiled in the parking lot for the past several months. Soils were transported to the rear (eastern side) of the clubhouse and used to increase the grade elevation. Additional material is planned to be moved to the northern side of the clubhouse of the next several days or weeks.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: reuse of parking lot soils.

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Photo #2: re-use of parking lot soils to elevated grade at the rear of the clubhouse.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: warm & sunny** **Wind: light** **Humidity**

Date: May 8, 2018 **Time: 1000 - 1430** High Med Low

Temp: 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, Rinaldi

Active Site Work Areas: Interior and exterior work at the new club house.

Activities included: Re-use of soil stockpile in the parking lot; transport material to rear of clubhouse and used to increase the grade elevation.

Site Work Progress:

Contractor Rinaldi used a backhoe and small dump truck to begin the re-use process for soils stockpiled in the parking lot for the past several months. Soils were transported to the rear (eastern side) of the clubhouse and used to increase the grade elevation.

Weekly Erosion Control Inspections were conducted.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo 1: re-use of soils from parking lot stockpile for grading activities at the rear of the clubhouse .

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Photo #2: remaining soils in parking lot.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: warm & sunny** **Wind: light** **Humidity**

Date: May 16, 2018 **Time: 0900 - 1330** High Med Low

Temp: 75 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, Rinaldi, EAI

Active Site Work Areas: Interior and exterior work at the new club house.

Activities included: Re-use of soil stockpile in the parking lot; transport material to rear of clubhouse and used to increase the grade elevation.

EAI continues installation of SSDS components including sensors and monitors

Site Work Progress:

Contractor Rinaldi used a backhoe and small dump truck to begin the re-use process for soils stockpiled in the parking lot for the past several months. Soils were transported to the rear (eastern side) of the clubhouse and used to increase the grade elevation.

EAI continues work on SSDS component installations.

Weekly Erosion Control Inspections were conducted.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo 1: re-use of soils from parking lot stockpile for grading activities at the rear of the clubhouse .

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Photo #2: remaining soils in parking lot.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast** **Wind: light** **Humidity**

Date: May 23, 2018 **Time: 0900 - 1430** **Temp: 60** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, Rinaldi, EAI

Active Site Work Areas: Interior and exterior work at the new club house.

Activities included: Re-use of soil stockpile in the parking lot; transport material to rear of clubhouse and used to increase the grade elevation.

EAI continues installation of SSDS components including sensors and monitors

Site Work Progress:

Contractor Rinaldi used a backhoe and small dump truck to begin the re-use process for soils stockpiled in the parking lot for the past several months. Soils were transported to the rear (eastern side) of the clubhouse and used to increase the grade elevation.

EAI continues work on SSDS component installations.

Weekly Erosion Control Inspections were conducted.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: re-use of soils from parking lot stockpile for grading activities at the rear of the clubhouse .

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Photo #2: Methane Sensor in ball room ceiling.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny** **Wind: light** **Humidity**

Date: May 25, 2018 **Time: 0900 - 1400** High Med Low

Temp: 70-75 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, EAI, Spinella Landscaping/Dynamic Environmental

Active Site Work Areas: Interior and exterior work at the new club house.

Importation of top soil for landscape beds on the western side (front) of the clubhouse. Topsoil was delivered by Dynamic Environmental Contractors from Spinella Landscaping Long Island, NY.

EAI continues installation of SSDS components including sensors and monitors

Site Work Progress:

Five, 30 yard loads of topsoil was delivered to the site from a commercial landscape source.

Installation of new sewer pump on the southern side of the clubhouse. Excavation did not encounter any MSW or demarcation Barriers. No PID readi ngs were measured above background concentrations.

EAI continues work on SSDS component installations.

Weekly Erosion Control Inspections were conducted.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo 1: installation of new sewer pump/housing on southern side of clubhouse. No demarcation barrier or MSW was encountered.

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Photo #2:Topsoil importation from Spinella Landscaping.

Photo #3: Methane sensor installation by EAI.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast, drizzle** **Wind: light** **Humidity**

Date: May 31, 2018 **Time: 1000 - 1430** **Temp: 60** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, EAI

Active Site Work Areas: Interior and exterior work at the new club house.

The previous sewer pump installation was found to have been performed incorrectly. The unit will have to be re-excavated, re-oriented and piped.

Con Ed is on site for the installation of natural gas supply lines to the new club house. Trenching was performed to facilitate gas pipe installation. Excavations were shallow and through materials that were previously imported from NY Reclycling. Excavations did not encounter any demarcation barriers, MSW or debris. No odors or PID readings were recorded.

EAI continues installation of SSDS components including sensors and monitors. EAI reinstalled the suction blower on the southern side of the club house—which had been dismantled to allow the trades to install components of the HVAC-without interference.

Site Work Progress:

EAI continues work on SSDS component installations. Senors and monitors were installed. Sampling and calibration lines were prepared for installation.

Trenching for gas line installation was performed on the western (front) side of the clubhouse. Con Ed will be installing the servce line.

Weekly Erosion Control Inspections were conducted.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo 1: Topsoil from Spinella Landscaping staged on site for use in the landscape beds on the western side of the clubhouse.

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Photo #2: Trenching for gas line installation by Con Ed (western side of clubhouse)

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Photo #3: Suction blower re-installed—southern side of the clubhouse.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: partly cloudy** **Wind: light** **Humidity**

Date: June 1, 2018 **Time: 0900 - 1430** High Med Low

Temp: 75 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Continued movement of soils from the parking to lot the berm on the northwestern side of the new club house.

Site Work Progress:

EAI continues work on SSDS component installations. Senors and monitors were installed. Sampling and calibration lines were prepared for installation.

Trenching for gas line installation on the western (front) side of the clubhouse has been completed. Sewer pump installation is on-going on the southern side of the building.

Weekly Erosion Control Inspections were conducted.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo 1: Remnants of parking lot soil pile being moved to the construction site.

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Photo #2: Material being moved to the berm on the northwestern side of the clubhouse.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: partly cloudy** **Wind: light** **Humidity**

Date: June 6, 2018 **Time: 1300 - 1700** High Med Low

Temp: 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Continued movement of soils from the parking to lot the berm on the northwestern side of the new club house.

Inspections of SSDS components.

Meeting with NYSDEC –requirements for clubhouse opening June 11.

Site Work Progress:

in preparation for the meeting with NYSDEC, compliance inspections were conducted on the SSDS components.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Remnants of parking lot soil pile being moved to the construction site.

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Photo #2: Southern SSDS stack on roof of the new club house.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: partly cloudy** **Wind: light** **Humidity**

Date: June 7, 2018 **Time: 0930 - 1300** **Temp: 70** °F (High) Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G, Woodard Curran, EAI

Active Site Work Areas: Interior and exterior work at the new club house.

Continued movement of soils from the parking to lot the berm on the northwestern side of the new club house.

Inspections of SSDS components and testing of suction blowers and sub-slab monitoring ports by EAI and WC.

Site Work Progress:

EAI and Woodard Curran tested the suction blowers and select sub-slab monitoring ports for the presence of a vacuum beneath the building. Ports on the northeastern and southwestern sides of the new clubhouse were tested. Vacuum pressures greater than -1 inch of water were record at both locations indicating the SSDS is functioning as designed.

Only a few yards of soil remains in the parking lot.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Remnants of parking lot soil pile being moved to the construction site.

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Photo #2: Clock tower relocation has been completed.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly cloudy** **Wind: light** **Humidity**

Date: June 8, 2018 **Time: 1300 - 1600** High Med Low

Temp: 75 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Work progress on the re-installation of the sewer pump on the southern side of the clubhouse. No MSW, demarcation barrier or waste was encountered during the excavavtions.

Site Work Progress:

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components.

Paving of the delivery and cart path areas on the northern side of the club house continues.

Only a few yards of soil remains in the parking lot.

Erosion Control inspections were performed.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Paving operations in progress.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny, clear** **Wind: breezy** **Humidity**

Date: June 14, 2018 **Time: 1300 - 1600** High Med Low

Temp: 80 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Site Work Progress:

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components.

Only a few yards of soil remains in the parking lot.

Erosion Control Inspections were completed.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Typical pressure probe port in floor of banquet hall.

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Photo 2: New Clubhouse following the June 11, 2018 Grand Opening.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast skies** **Wind: breezy** **Humidity**

Date: June 20, 2018 **Time: 0900 - 1200** High Med Low

Temp: 75 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Site Work Progress:

Weekly construction meeting teleconference.

Erosion Control Inspcetions conducted.

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components.

Only a few yards of soil remains in the parking lot.

Erosion Control Inspections completed.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Typical pressure probe port in floor of men's locker room.

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Photo 2: Remnants of soil stockpile in the parking lot.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast skies** **Wind: breezy** **Humidity**

Date: June 27, 2018 **Time: 0930 - 1130** High Med Low

Temp: 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Site Work Progress:

Weekly construction meeting.

Erosion Control Inspcetions conducted.

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components.

Only a few yards of soil remains in the parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Site Traps in parking lot. Maintenance required.

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Photo 2: Remnants of soil stockpile in the parking lot.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny skies** **Wind: breezy** **Humidity**

Date: July 5, 2018 **Time: 0900 - 1330** High Med Low

Temp: 80 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Site Work Progress:

Erosion Control Inspcetions conducted.

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components.

Only a few yards of soil remains in the parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny skies** **Wind: breezy** **Humidity**

Date: July 11, 2018 **Time: 0930 - 1330** High Med Low

Temp: 80 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, Triple G

Active Site Work Areas: Interior and exterior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Site Work Progress:

Weekly construction meeting

Erosion Control Inspcetions conducted.

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components.

Only a few yards of soil remains in the parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: remnants of soil pile from parking lot.

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Photo 2: typical sediment trap. Traps are at approximately 25 to 50% capacity with sand and grass clippings. Maintenance needed and requested.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: cloudy** **Wind: light** **Humidity**

Date: July 17, 2018 **Time: 1200- 1300** **Temp: 90** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS

Active Site Work Areas: Interior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Site Work Progress:

Erosion Control Inspcetions conducted.

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components.

Only a few yards of soil remains in the parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: remnants of soil pile from parking lot.

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Photo 2: service room

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny** **Wind: light** **Humidity**

Date: July 20, 2018 **Time: 1000 - 1200** **Temp: 85** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS

Active Site Work Areas: Interior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Site Work Progress:

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components. Replacement methane sensors are expected form the manufacturer next week.

Only a few yards of soil remains in the parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast** **Wind: moderate**
Humidity

Date: July 25, 2018 **Time: 1000 - 1200** High Med Low
Temp: 75 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS

Active Site Work Areas: Interior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Site Work Progress:

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components. Replacement methane sensors are expected form the manufacturer this week according to EAI.

Only a few yards of soil remains in the parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: intermittent rain** **Wind: moderate**
Humidity

Date: August 1, 2018 Time: 1000 - 1200 High Med Low
Temp: 80 °F

Name of Project: Trump Golf Links – Ferry Point Park Municipality: Bronx, NY Job No: 17002426A

Site Contractors: JCS

Active Site Work Areas: Interior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Site Work Progress:

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components. Replacement methane sensors are expected from the manufacturer this week according to EAI.

Only a few yards of soil remains in the parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: hazy, hot, humid** **Wind: light & variable** **Humidity**

Date: August 8, 2018 Time: 1000 - 1200 **Temp: 90** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS

Active Site Work Areas: Interior work at the new club house.

Remnants of the soil stockpile remain in the parking lot.

Site Work Progress:

SSDS blowers are operating. EAI is scheduling the installation of the remaining SSDS components. Several replacement methane sensors were reported to have been received by EAI. The balance of the sensors are expected this week. Sensor installation and testing is tentatively scheduled for the week of August 13 thru 17.

Only a few yards of soil remains in the parking lot.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: hot & humid** **Wind: light & variable** **Humidity**

Date: August 14, 2018 **Time: 1000 - 1200** High Med Low

Temp: 80 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: JCS, EAI

Active Site Work Areas: Interior work at the new club house.

Remnants of the soil stockpile from the parking lot have been removed. Parking lot is now clear of all stockpiled soils.

Site Work Progress:

SSDS blowers are operating. EAI is on-site installing new methane sensors and sensor heads. Testing of the new replacement equipment is also taking place.

All soils stockpiled in the parking lot have been removed. Sediment traps in the stockpile areas have been cleaned and removed. Only one sediment trap remains in an area where equipment is still being staged.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo 1: EAI personnel install, calibrate and test replacement methane sensors and heads.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: hot & humid** **Wind: light & variable** **Humidity**

Date: August 15, 2018 **Time: 0900 - 1700** High Med Low

Temp: 85 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Ranco Snad & Stone, Manorville, NY

Active Site Work Areas: All work today was conducted off-site at Ranco Sand & Stone South Street, Manorville (Suffolk Couny), NY

Site Work Progress:

Collection of soil sampls for Cover Material Quality Analyses. Site visit to Ranco Sand & Stone, Manorville, NY.

Samples collected as per Chemical Permit LimitsTable provided by Steve Lauria, Woodard Curran

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Photo 1: Ranco Sand & Stone facility, Manorville, NY.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: partly cloudy** **Wind: breezy** **Humidity**

Date: August 22, 2018 **Time: 1000 - 1230** High Med Low

Temp: 75 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: JCS

Active Site Work Areas: Interior work at the new club house.

Remnants of the soil stockpile from the parking lot have been removed. Parking lot is now clear of all stockpiled soils.

Site Work Progress: SSDS blowers are operating. EAI installed new methane sensors and sensor heads last week. Testing results have been requested.

All soils stockpiled in the parking lot have been removed. Sediment traps in the stockpile areas have been cleaned and removed. Only one sediment trap remains in an area where equipment is still being staged.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo 1: SSDS Control Monitor in New Club House

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DAILY FIELD OBSERVATION REPORT

M T W TH F SA SU **Weather:** Weather **Wind:** 0-5 mph **Humidity** (High Med Low)
Date: 8-24-2018 **Time:** 7:30 **Temp:** 90+

Name of Project: Trump Links Golf Course - Ferry Point **Municipality:** Bronx, NY **Job No:** 17002426C

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Proposed Gas Main installation & excavation

Site Work Progress: Arrived on-site at 7:30am

8:00am - Was informed by that excavation cannot commence until umbrella insurance issue is resolved.

9:00 am laying down plywood and began digging up the telecom line.

10:30am - met with Joe Rodinger. He explained that the demarcation barrier is a caution that says the msw is approximately 1-4 feet below that.

Standard SOP (according to Joe) is that we can dig to depth, replace demarcation barrier with a new one and then sand, pipe, etc.

Demarcation barrier varies from 10"-24". Barrier closest to road has no shaping material on top.

13:15 - Called and spoke to Anthony of Bellisimo, was told I was not needed anymore today.

Remarks: N/A

Site Photographs: Yes **Additional Action Required by Project Mgr. or Eng.: (YES NO)**

Observed By: Vince Carbone **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT

M T W TH F SA SU **Weather:** Weather **Wind:** 0-5 mph **Humidity** (High Med Low)
Date: 8-27-2018 **Time:** 7:30 **Temp:** 90+

Name of Project: Trump Links Golf Course - Ferry Point **Municipality:** Bronx, NY **Job No:**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Proposed Gas Main installation & excavation

Site Work Progress: Arrived on-site at 7:30am

8:00am - Walked down to construction area, the rest of the plywood has been staged on each side of the proposed excavation

Umbrella Insurance policy has not been agreed to, cannot progress without.

Departed site around 13:00 after Joe Rodinger dismissed me.

Remarks: N/A

Site Photographs: Yes **Additional Action Required by Project Mgr. or Eng.: (YES NO)**

Observed By: Vince Carbone **Reviewed By:**
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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny** **Wind: breezy** **Humidity**

Date: August 28, 2018 **Time: 0900 - 1500** High Med Low

Temp: 95 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation along the northern side of the golf course just south of Schley Drive.

Site Work Progress: Over 500 linear feet of gas line trench was dug today. Cover material and shaping material was segregated on either side of the trench on plywood sheets for re-use after the gas main is installed.

No readings above background concentration on 4-gas meter or PID. No demarcation barriers or waste materials encountered.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Gas Main Trench along the northern side of the Golf Course south of Schley Drive. Cover and shaping material are segregated on either side of the trench for reuse.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny** **Wind: breezy** **Humidity**

Date: August 29, 2018 **Time: 1000 - 1500** High Med Low

Temp: 95 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation along the northern side of the golf course just south of Schley Drive. Gas main pipeline trench was extended southward to the golf cart path.

Site Work Progress: Gas Line trench was extended to its first intersection with the golf cart path along fairway #6. Cover material and shaping material was segregated on either side of the trench on plywood sheets for re-use after the gas main is installed.

No air monitoring measurements exceeded background concentrations. No waste materials encountered.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo 1: Looking northward, Gas Main Trench along the northern side of the Golf Course south of Schley Drive. Cover and shaping material are segregated on either side of the trench.

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Photo 2: Looking southward, the gas line pipeline route-heading south toward the golf cart path- prior to excavation.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: clear & sunny** **Wind: light & variable** **Humidity**

Date: September 4, 2018 **Time: 1000 - 1400** High Med Low

Temp: 90 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation pipeline: saw cutting in the maintenance area in preparation for trenching.

Also area between Buttrick & Schley is being prepared for pipeline installation by Con Edison.

No PID or four gas meter measurements above background levels.

Site Work Progress: Saw cutting from the cart path into the maintenance area was initiated today (contractor was to have completed this yesterday however they experienced problems with the saw cutting machine).

Con Edison is transporting and staging plastic 6-inch pipe at the trench on the northside of the golf course in preparation for installation.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo 1: Looking southward, Gas Main Trench along the northern side of the Golf Course along golf cart path Fairway #6.

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Photo 2: Saw cutting asphalt in the golf course maintenance area (north side of maintenance building).

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DAILY FIELD OBSERVATION REPORT

M T W TH F SA SU **Weather:** Weather **Wind:** 0-5 mph **Humidity** (High Med Low)
Date: 9-5-2018 **Time:** 7:30 **Temp:** 90+

Name of Project: Trump Links Golf Course - Ferry Point **Municipality:** Bronx, NY **Job No:** 17002426C

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Proposed Gas Main installation & excavation

Site Work Progress: Arrived on-site at 7:30am

Upon arrival, gas meter located in Chris' office was not working. Called Pine Environmental and had them deliver a new one.

7:45am - Began preliminary observations, asphalt in front on maintenance garage has been saw cut, had to offset in fron of bay door No. due to natural gas cap.

8:30am - ConEd arrived on-site.

9:15am - Orange Demarcation barrier is being laid down in trench (See attached map for location) (BLUE AREA)

9:20am - 3" of sand is being laid on top of orange demarcation barrier (Checking with measured broom stick handle)

10:00am - Anthony (Bellisimo) began removal asphalt layer from north and east side of the maintenance garage.
10:10am - Measured trench in asphalt - ranged from 36"-42"

Remarks: N/A

~~11:00am - Spoke to ConEd workers, they explained the bonding process. 20 min of intense heat (400-450 degrees)~~ to bond two sections together and 20 minutes for the pieces to cool down before they can be placed in trench.

11:15am - Anthony (Bellisimo) began trenching across golf cart path (See attached map, YELLOW AREA). Steel plate placed over trench.

11:40am - Pine Environmental delivered new gas meter

12:00pm - ConEd front loader broke down, need to replace with new one

13:30pm - New front loader arrives and bonding continues
14:30 - Anthony (Bellisimo) was trenching along east side of maintenance garage. Exposed current 4"gas line (See attached map, GREEN AREA)

15:40pm - Orange demarcation barrier has been laid with 3" of sand on top from Buttrick Avenue to where the trench first crosses the golf cart path (See attached map)

15:45pm - 8 sections of new 6" gas pipe has been bonded and placed in trench.

16:30pm - Trenching has ended for the day

Site Photographs: Yes **Additional Action Required by Project Mgr. or Eng.: (YES NO)**

Observed By: Vince Carbone **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny/Slightly Cloud** **Wind: light to mild** **Humidity**

Date: September 6, 2018 **Time: 0900 - 1630** High Med Low

Temp: 90 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation pipeline: saw cutting, trenching, and backfilling in the maintenance area.

Piping welded from Buttrick & Schley Ave to the cart path on Fairway #6 for pipeline installation by Con Edison.

No PID or four gas meter measurements above background levels.

Site Work Progress: The trench on the northeastern and northwestern sides of the maintenance building were backfilled with a minimum of 3" of clean fill. Thickness of the fill measured every 10' throughout an estimated ~170 LF trench. Trench on the northwestern side was extended 10 – 20 LF by cutting asphalt and excavating soil material nearby.

Con Edison welding and installing plastic 6-inch pipe at the trench on the northside of the golf course . Note: Areas with <18" of soil above the pipe require steel section above the pipe.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Photo 1: Trench Along the west side of Maintenance Building.

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Photo 2: Trench Along Maintenance Building prepared for Backfill.

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Photo 3: Con-Ed Welding & Installation Staging Area north side of golf course.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: cloudy** **Wind: breezy** **Humidity**

Date: September 7, 2018 **Time: 1100 - 1630** High Med Low

Temp: 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation along the northern and western sides of the maintenance facility. Testing of fittings and connections by RECONN. Gas main pipeline trench was saw cut and extended southward toward the golf cart path near the 8th tee box.

Site Work Progress: Pipeline pressure tests conducted by Con Edison. All fittings, joints and welds tested for integrity by RECONN.

No air monitoring measurements exceeded background concentrations.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo 1: Con Ed laborers preparing to install gas line along the northern side of the maintenance facility.

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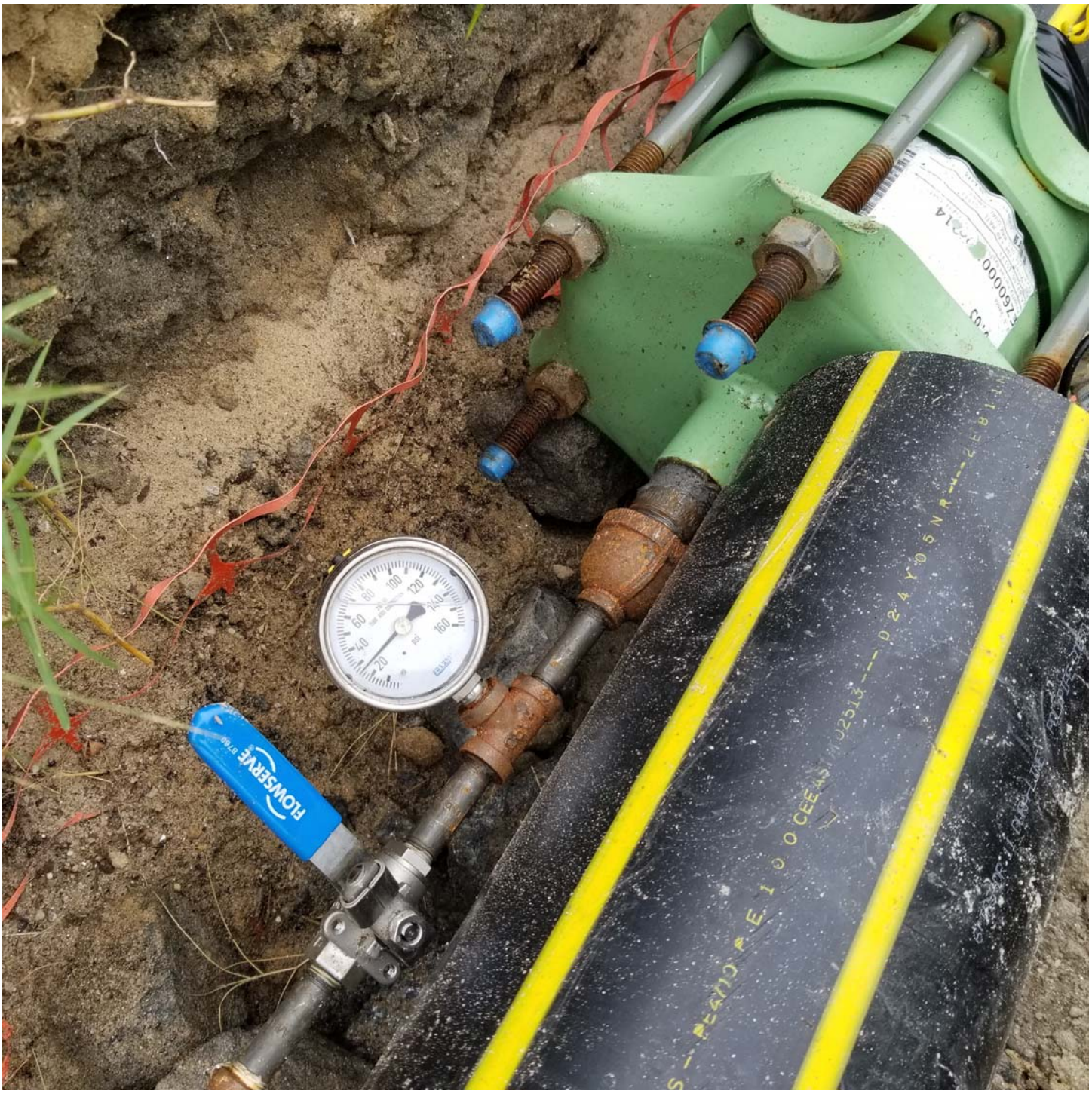

Photo 2: Pressure tesing of the newly installed 6-inch gas line.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: rain** **Wind: breezy** **Humidity**

Date: September 10, 2018 **Time: 1100 - 1530** High Med Low

Temp: 55 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation along the northern and western sides of the maintenance facility. Testing of fittings and connections by RECONN. Gas main pipeline trench was saw cut and extended southward toward the golf cart path near the 8th tee box. Pipeline installed.

Site Work Progress: Gas Line trench was extended to its first intersection with the golf cart path along fairway #8. Backfilling of pipeline in trenches on the northern and western sides of the maintenance facility. Weather slowed the progress of work today. All pipes that could be installaed, were installed.

No air monitoring measurements exceeded background concentrations.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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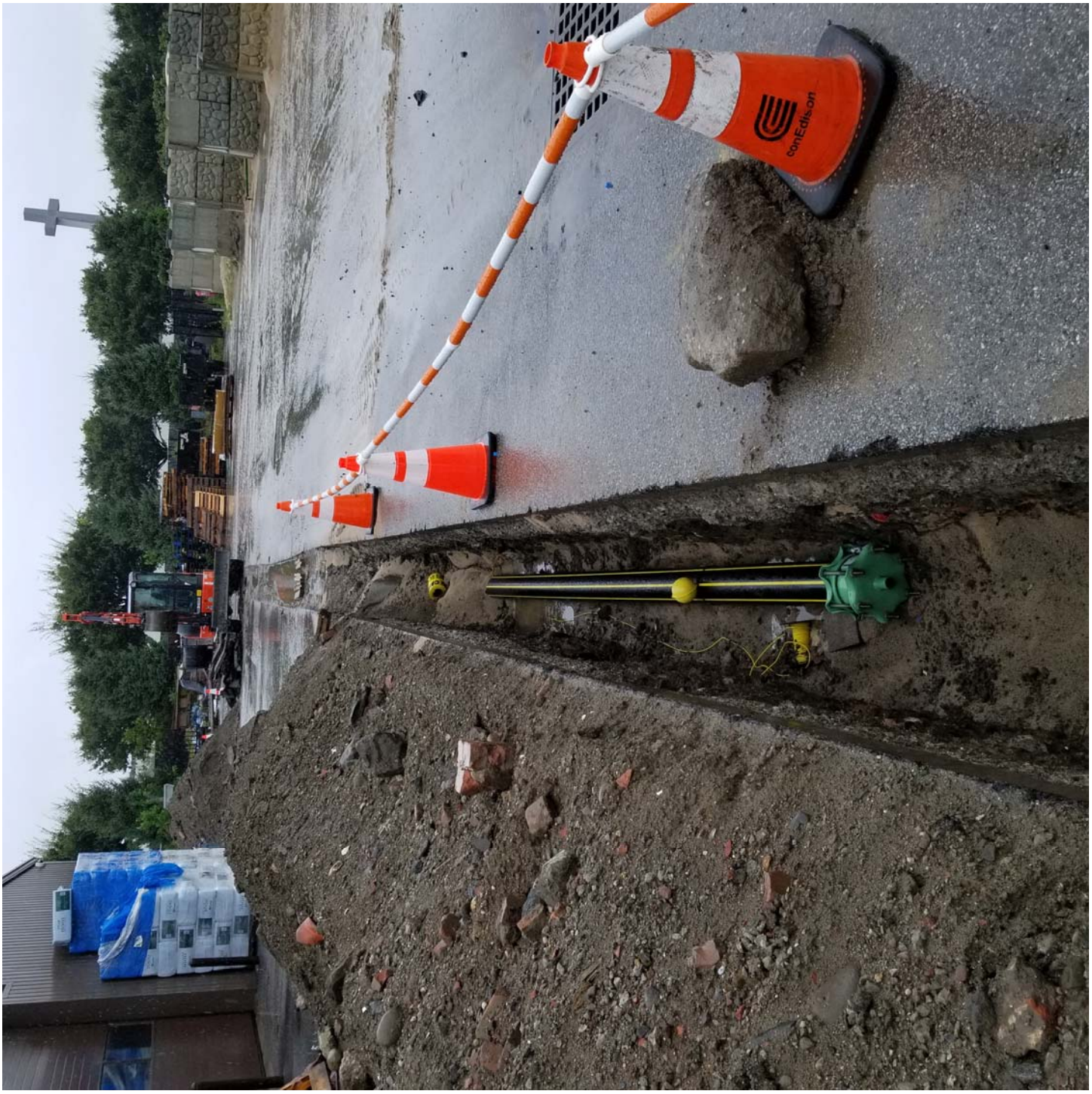

Photo 1:Gas line along the northern side of the maintenance facility.

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P **Photo 2 :Pipeline installation along the west side of the maintenance building.**

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast with occasional drizzle** **Wind: calm** **Humidity**

Date: September 11, 2018 **Time: 1030 - 1530** High Med Low

Temp: 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation along the northern side of the maintenance facility northward toward the 7th fairway. Testing of fittings and connections by RECONN. Gas main pipeline along fairway #6 was backfilled to specifications. Approximatley 450 linear feet of backfill was completed today.

Site Work Progress: Backfilling of pipeline from the northern side of the golf course southward toward the cart path along Fairway #6. Pipeline installation continued from the maintenance facility northward toward the 7th Tee Box.

No air monitoring measurements exceeded background concentrations.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo 1:Gas line along the northern side of the maintenace facility.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy/Slightly Rainy** **Wind: light to mild** **Humidity**

Date: September 12, 2018 **Time: 0900 - 1700** High Med Low

Temp: 60 - 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation pipeline - Backfilling in the Trenches North of Maintenance Garage

Piping welded around trench bends for installation by Con Edison.

No 4-gas meter measurements above background levels.

Site Work Progress: Trenches in various locations were backfilled north of the maintenance building. Toward the northern end of the course near Buttrick & Dewey Ave prior backfilling and near the maintenance building area, clean cover sand was backfilled to a minimum of 3" thick above the gas pipe and shaping material soil was covered over. Areas near the intersection of the golf course were backfilled with a minimum of 3" thick clean fill sand at the base of the trench. Thickness of the clean fill above and below pipes were measured every 10' throughout the trench.

79,500 lbs of clean cover fill from Ranco Sand & Stone was delivered to the site and stored at the maintenance building.

Con Edison welded and installed plastic 6-inch pipe at trench bends near the trail intersection of the gas installation .

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Photo 1: Northern Trench Near Buttrick and Dewey Ave Backfilled to Grade with Shaping S

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Photo 2: Northern Trench Near Maintenance Building Backfilled to Grade with Shaping Soil

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy/Slightly Rainy** **Wind: light to mild** **Humidity**

Date: September 13, 2018 **Time: 0800 - 1500** High Med Low

Temp: 60 - 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation pipeline – Excavating Trenches South of Maintenance Garage toward clubhouse

Piping welded around trench bends for installation by Con Edison.

No 4-gas meter measurements above background levels.

Site Work Progress: Roughly 500' of trench south of the maintenance building from the rear entrance along the path to the clubhouse was excavated. Trench depth ranged from 30 – 40" below ground surface. Near the fence line of the trench, gravel, plastic piping, and plastic liner was encountered. Roughly 10' of perforated pipe was damaged during the disturbance. The contractor (Anthony) was notified to repair the drainage area. Unmarked utilities were also encountered, but were not damaged. All materials were stocked onto plywood panels adjacent to the trench. Shaping layer soil was placed on one side of the trench, while cover sand was placed on the oppostie side for later backfilling.

Excess shaping material from backfilling activities was stockpiled in the bin northwest end of the maintenance building.

Con Edison continued welding and installing plastic 6-inch pipe at trenches north of the maintenance building.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
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Photo 1: Trench South of Maintenance Building Along Hutchinson River Parkway service road.

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Photo 2: Damaged Perforated Piping from Drainage Area. Repairs were made.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: Cloudy/Slightly Sunny** **Wind: light to mild** **Humidity**

Date: September 14, 2018 **Time: 0800 - 1500** High (Med) Low

Temp: 60 - 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation – Excavating Trenches South of Maintenance Garage toward clubhouse, Backfilling Trenches North of Maintenance Garage

Piping installed in southern trenches by Con Edison.

No 4-gas meter measurements above background levels.

Site Work Progress: Roughly 400' of trench south of the maintenance building along the western property line was excavated. Trench depth ranged from 30 – 40" below ground surface. Gravel, plastic piping, and plastic liner was encountered. Roughly 2' of perforated pipe was damaged during the disturbance. The contractor (Anthony) was notified to repair the drainage area. Portions of the trench were primarily composed of gravel from a drainage system and will be backfilled. Asphalt was cut and concrete was broken on the eastern rear gate prior to trenching. All materials were stocked onto plywood panels along the trench. Shaping layer soil was placed on one side while cover sand soil was placed on the other.

Roughly 20' of clean cover soil was backfilled over piping in trenches north of the maintenance building to a minimum thickness of 3". Caution tape was placed on top of the backfilled sand.

Con Edison performed a pressure tests on the pipeline sections near the automated gate located south of the maintenance garage. The test was successful with no leaks in the system. Plastic 6" pipe was installed in the trenches south of the maintenance building. The trench was not backfilled with 3" minimum of bedding. Anthony and Con Edison were notified that clean cover sand must be backfilled on the bedding of the trench either prior to installation or worked around the piping. Con Edison responded that the bedding will be installed.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By:
Date:

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Photo 1: Trench South of Maintenance Building Along Hutchinson River Parkway service road.

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Photo 2: Piping Installed in Trench near Rear Entrance Gate, Asphalt and Concrete to be Trenched.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny/Slightly Cloudy** **Wind: light to mild** **Humidity**

Date: September 13, 2018 **Time: 0800 - 1500** **Temp: 60 - 70** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation pipeline – Excavating Trenches South of Maintenance Garage toward clubhouse, Backfilling Trenches North of Maintenance Garage

Piping installed in southern trenches by Con Edison.

No 4-gas meter measurements above background levels.

Site Work Progress: Roughly 250' of trench south of the maintenance building was excavated. The trench was generally 36" below ground surface. Roughly 6' of perforated pipe was observed to be damaged during the trenching. The contractor (Anthony) was notified to repair the drainage areas prior.

Asphalt was cut and concrete was broken up near the rear gate prior to trenching. Broken up asphalt and concrete were stockpile separately for disposal. Remaining materials were stockpiled onto plywood panels along side the trench.

Clean cover soil was backfilled over 80 linear feet of piping in trenches north of the maintenance building to a minimum thickness of 3". Caution tape was placed on top of the backfilled sand.

Plastic 6" pipe at trenches south of the maintenance building were installed. The trenches were not initially backfilled with 3" minimum of bedding. Anthony and Con Edison are aware that clean cover sand must be backfilled on the bedding of the trench either prior to installation or worked around the piping. Con Edison responded that the bedding will be installed.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Photo 1: Trench South of Maintenance Building Along Hutchinson River Parkway service road (~1/2 Length from Rear Gate to Clubhouse, Gravel & Runoff Sand Excavated and stockpiled).

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Photo 2: Trench Between Buttrick & Dewey Ave and trail Crossroad backfilled with minimum of 3" thick clean Sand (Backfill subsequently leveled and caution tape placed above).

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather; Variable with heavy rains** **Wind: moderate** **Humidity**

Date: September 18, 2018 **Time: 1000 - 1400** **Temp: 75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation and Trenching along the cart path adjacent to Fairway #8.

No 4-gas meter measurements above background levels.

Site Work Progress: Work was slowed to to heavy rains that were once Hurricane Florence. Trenching was advanced on the western side of the cart path near Fairway #8. Con Edison installed 6-inch gas line sections along this same route. Section couplings were tested and approved by RECONN.

Trenching operation is approximately 800 feet ahead of the pipeline installation.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Con Edison installing 6 inch pipeline section west of the cart path near Fairway #8.

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Photo 2: Trench on the east side of the cart path adjacent to Fairway #6 is backfilled.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather; mostly sunny and warm** **Wind: light & variable** **Humidity**

Date: September 19, 2018 **Time: 1000 - 1500** **Temp: 70-75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation and Trenching along the cart path adjacent to Fairway #8.

No 4-gas meter measurements above background levels.

Site Work Progress: Gas line installation work continued along the utility cart path adjacent to Fairway #8. Con Edison crews were short manpower as most were getting re-certified for pipeline work installations. Bellisimo continued trenching and backfilling as appropriate.

To date: approximately 4,000 feet has been trenched; 2,800 feet has had pipeline installed, pressure tested and backfilled; 900 feet of open trench with pipe tested but not backfilled; 300 feet of open trench ready for pipeline installation.

Approximatley 1,000 feet of trenching remains.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather; mostly sunny** **Wind: light & variable** **Humidity**

Date: September 20, 2018 **Time: 1000 - 1500** **Temp: 70 °F** High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation and Trenching along the cart path adjacent to Fairway #8 up to the intersection with the parking lot.

No 4-gas meter measurements above background levels.

Site Work Progress: Gas line installation work continued along the utility cart path adjacent to Fairway #8 and up to the parking lot. Con Edison crews worked to weld, install and pressure test to pipe sections-monitoring by RECONN. Bellisimo continued trenching and backfilling as appropriate.

To date: approximately 4,500 feet has been trenched

Approximatley 500 feet of trenching remains. Trump is awaiting word from the engineer how close the new pipeline needs to to get to the new clubhouse to have sufficient gas supply.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT

M T W TH F SA SU **Weather: Cloudy** **Wind: 10-15mph** **Humidity** (High Med Low)
Date: 9/21/2018 **Time: 7:30am**
Temp: 65 degrees

Name of Project: Trump Links Gas Main **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Bellisimo Construction, ConEdison

Active Site Work Areas:

Site Work Progress: **Trenching began along west side of entrance to service road.**
Trenching extended to wrap around to the front of the "Trump Links" sign
Began ripping up asphalt to connect to current gas box
Encountered water from either irrigation lines or rainfall in trench
ConEd connected gas main and pressure tested it (Passed)
Backfilled areas include only across the service road to allow access for cars

Remarks: N/A

Site Photographs: Yes **Additional Action Required by Project Mgr. or Eng.: (YES NO)**

Observed By: VJC **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather; mostly cloudy & wiindy** **Wind: windy** **Humidity**

Date: September 24, 2018 **Time: 1000 - 1500** **Temp: 60-65** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation and Trenching extended to the Trump Links sign and across the driveway to the gas vault. Con Edison continued to weld sections of pipeline, install and test with RECONN inspections.

No 4-gas meter measurements above background levels.

Site Work Progress: Gas line installation trenching is almost completed. Con Edison crews worked to weld, install and pressure test pipe sections-monitoring by RECONN. Bellisimo continued trenching and backfilling as appropriate.

To date: approximately 5,000 feet has been trenched

Con Edison engineer indicated that the because a 6-inch line was intstalled instead of a 4-inch line there will be a sufficient volume of fuel for the new clubhouse.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Gas Main Trench is extended beyond the Trump Links Sign to the existing gas vault.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: heavy rain** **Wind: gusty** **Humidity**

Date: September 25, 2018 **Time: 1200 - 1500** **Temp: 65-70** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation and Trenching in front of New Club House

No 4-gas meter measurements above background levels.

Site Work Progress: Heavy rain hampered work progress today.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 Trenching in front of the new club house.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny & warm** **Wind: light & variable** **Humidity**

Date: September 26, 2018 **Time: 1200 - 1500** **Temp: 75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison

Active Site Work Areas: Gas Main Installation and Trenching in front of New Club House. Attempts made to locate existing gas service to connect it to the new 6 inch main.

No 4-gas meter measurements above background levels.

Site Work Progress: Backfilling of trench in front of new clubhouse after pipeline installation and testing by Con Edison. Locate existing 2-inch service line so that it can be connected to the new 6-inch gas main.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 Trenching in front of the new club house in the vicinity of the existing 2-inch service line.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny & warm** **Wind: calm** **Humidity**

Date: October 1, 2018 **Time: 1200 - 1400** **Temp: 70** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: topping of backfilled areas with cover material to bring grade a minimum of 27" above the top of the gas line. Cover material was imported from Ranco Sand & Stone.

No 4-gas meter measurements above background levels.

Site Work Progress: areas of the gas line on the northern side of the golf course were prepared with cover material. Work areas include the gas line route along Fairways #6 and #7.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 Cover material from Ranco Sand & Stone placed over the gas line to provide adequate cover thickness.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny & warm** **Wind: calm** **Humidity**

Date: October 2, 2018 **Time: 1200 - 1400** **Temp: 75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: topping of backfilled areas with cover material to bring grade a minimum of 27" above the top of the gas line. Cover material was imported from Ranco Sand & Stone. Miscellaneous work throughout the job site as Con Edison was not on-site today.

No 4-gas meter measurements above background levels.

Site Work Progress: areas of the gas line on the northern side of the golf course were prepared with cover material. Work areas include the gas line route along Fairways #6, #7 and #8.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 Cover material at pipeline route adjacent to Fairway #7.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny & warm** **Wind: calm** **Humidity**

Date: October 3, 2018 **Time: 1200 - 1400** **Temp: 75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: topping of backfilled areas with cover material to bring grade a minimum of 27" above the top of the gas line. Cover material was imported from Ranco Sand & Stone. Miscellaneous work throughout the job site as Con Edison was not on-site today.

No 4-gas meter measurements above background levels.

Site Work Progress: areas of the gas line on the northern side of the golf course were prepared with cover material. Work areas include the gas line route along Fairways #6, #7 and #8.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 Cover material at pipeline route adjacent to Fairway #6.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast & warm** **Wind: calm** **Humidity**

Date: October 9, 2018 **Time: 1000 - 1500** **Temp: 70- 75 °F** High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas:Bellision Construction worked the gas pipeline route along side Fairway #6 adding sufficient cover material and grading. Additional landscaping work was conducted in from of the "Trump Links' sign. Con Edison workers were staged on the roadway north of the golf course-opening the roadway in preparation to make the connection with the gas main at Schley and Buttrick.

No 4-gas meter measurements above background levels.

Site Work Progress: Most of the cover material along side Fairway #6 was placed above the new gasline-elevating the area as per the design specifications. Excavations in the road north of the golf course were slow and meticulous due to the abundance of underground utilities.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo: 1 Cover material at pipeline route adjacent to Fairway #6.

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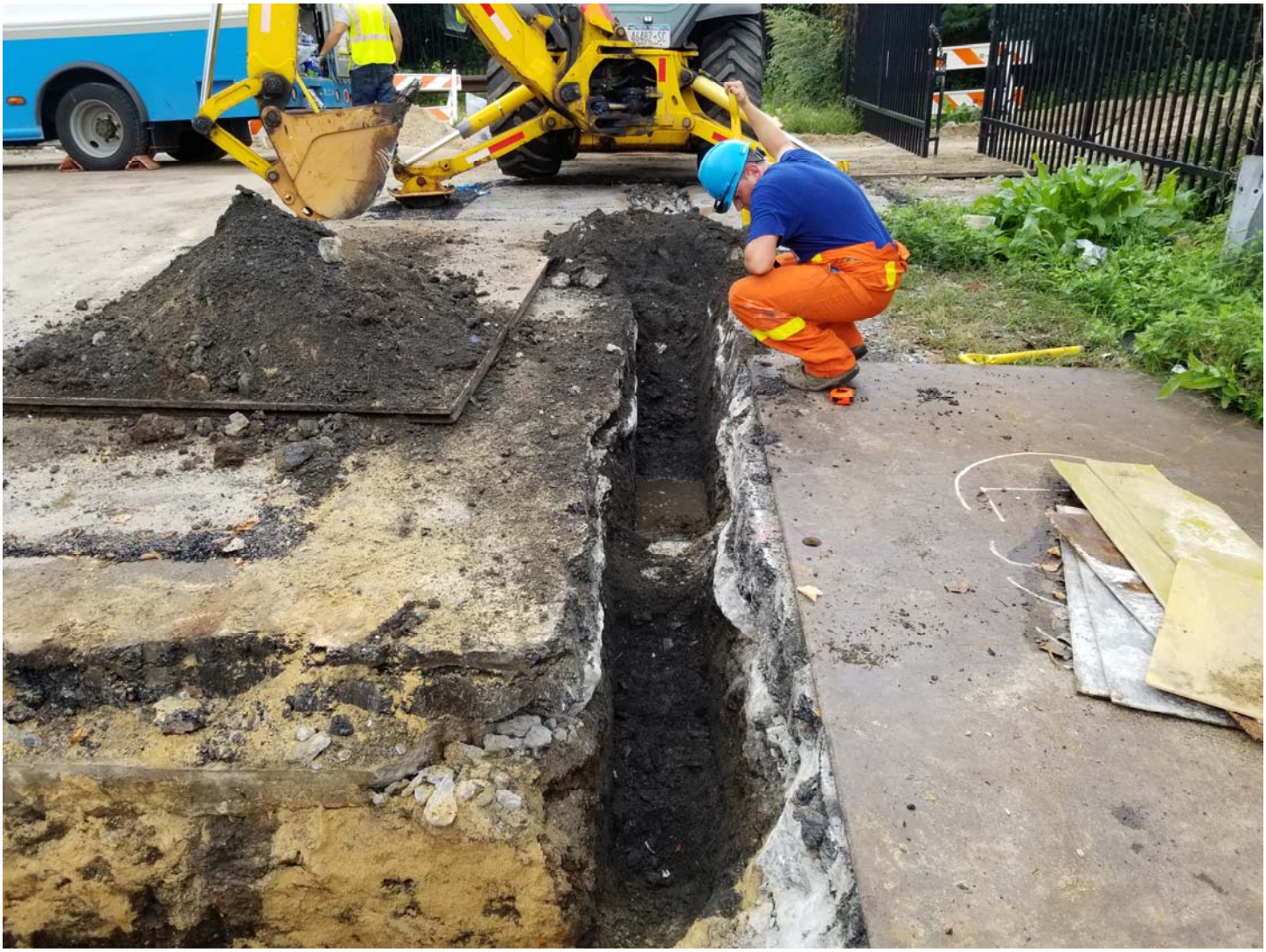

Photo #2: excavations to connect the new gas line with the existing main near the intersection of Buttrick and Schley.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny & warm** **Wind: light** **Humidity**

Date: October 10, 2018 **Time: 1030 - 1430** **Temp: 75-78** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Bellisimo continued construction work along the gas pipeline route along side Fairway #6 adding sufficient cover material and grading. Additional landscaping work was conducted in from of the "Trump Links' sign. Con Edison workers were not on-site today.

No 4-gas meter measurements above background levels.

Site Work Progress: Most of the cover material along side Fairway #6 was placed above the new gasline-elevating the area as per the design specifications. Excavations in the road north of the golf course have been backfilled. Con Edison was not on-site today so the schedule for the new gas line to be connectred to the Main is unclear.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo: 1 Cover material at pipeline route adjacent to Fairway #6.

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Photo #2: Area where the new gas line will be connected to the existing main at intersection of Schley and Buttrick.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: cloudy & mild** **Wind: steady winds** **Humidity**

Date: October 15, 2018 **Time: 1030 - 1430** **Temp: 65** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Bellisimo continues miscellaneous construction work along the gas pipeline route along side Fairway #6 adding sufficient cover material and grading. Additional landscaping work was conducted in front of the "Trump Links' sign. Con Edison workers were not on-site today.

No 4-gas meter measurements above background levels.

Site Work Progress: Most of the cover material along side Fairway #6 was placed above the new gasline-elevating the area as per the design specifications. Excavations in the road north of the golf course have been covered with protective steel road plates. Con Edison was not on-site today so the schedule for the new gas line to be connected to the Main is unclear. Cover material was staged in the vicinity of open excavations so that it's ready to be deployed as soon as Con Edison makes the final gas line connections.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 Cover material staged at the northern end of the pipeline route in preparation for the connection to the gas main at Buttrick & Schley.

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Photo #2: Area where the new gas line will be connected to the existing main.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather:mostly sunny** **Wind: steady winds** **Humidity**

Date: October 16, 2018 **Time: 1130 - 1430** **Temp: 50-55** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony) (offsite)

Active Site Work Areas: Bellisimo continues miscellaneous construction work along the gas pipeline route along side Fairway #6 adding sufficient cover material and grading—although they were not observed to be on-site today. Additional landscaping work was conducted in from of the "Trump Links' sign. Con Edison workers were not on-site today. Gas Main connection still needs to be accomplished at Buttrick & Schley and at the Club House.

No 4-gas meter measurements above background levels.

Site Work Progress: Most of the cover material along side Fairway #6 was placed above the new gasline-elevating the area as per the design specifications. Excavations in the road north of the golf course have been protected with steel road plates. Con Edison was not on-site today so the schedule for the new gas line to be connected to the Main is unclear. Cover material was staged in the vicinity of open excavations so that it's ready to be deployed as soon as Con Edison makes the final gas line connections.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo: 1 Steel road plates cover the gas line excavation trench at Buttrick & Schley .

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Photo #2: Area where the new gas line will be connected to the existing service branch for the club house.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: clear & sunny** **Wind: steady winds** **Humidity**

Date: October 18, 2018 **Time: 1100 - 1530** **Temp: 45** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Bellisimo continues miscellaneous construction work along the gas pipeline route along side Fairway #6. They are also restoring the cart path adjacent to Fairway #6.

Con Edison makes the connection of the 6-inch Gas Line to the 2-inch supply line near the new club house. RECONN inspects and tests all joints and connections.

No 4-gas meter measurements above background levels.

Site Work Progress: Most of the cover material along side Fairway #6 was placed above the new gasline-elevating the area as per the design specifications. Excavations in the road north of the golf course have been protected with steel road plates. Con Edison was on-site today and made the connection of the 6-ich gas line to the 2-inch supply line near the club house.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo: 1 Con Edison making the connection of the 6-inch gas line to the 2-inch supply line near the Club house.

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Photo #2: Bellisimo working on the cart path adjacent to Fairway #6/Tee Box for Hole #7.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: mostly sunny & mild** **Wind: light** **Humidity**

Date: October 19, 2018 **Time: 1200 - 1530** **Temp: 55 °F** High (Med) Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Bellisimo continues miscellaneous construction work along the gas pipeline route at multiple locations.

Con Edison makes the connection of the 6-inch Gas Line to the main gas line at the intersection for Buttrick & Schley. RECONN inspects and tests all joints and connections.

No 4-gas meter measurements above background levels.

Site Work Progress: the new 6-inch gas line has now been connected to the gas main. Following testing, the new 5,000 foot gasline can be activated.

Site Photographs: Yes (No)

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Dave Keil **Reviewed By:**
Date:

Customer Loyalty through Client Satisfaction.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly overcast skies** **Wind: breezy** **Humidity**

Date: October 22, 2018 **Time: 1200 - 1500** **Temp: 50- 55** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: No contractors on site today

Active Site Work Areas: No active work areas as contractors were not onsite today. Open trenches at the new clubhouse and the connection point for the gas line were checked for air quality.

No 4-gas meter measurements above background levels.

Site Work Progress: Contractors were not on-site today. Air quality measurements were collected at open trenches at the northern and southern end of the pipeline route. No measurements recorded above background levels.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Customer Loyalty through Client Satisfaction.

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Photo: 1 Gas Line connected at northern end of pipeline route.

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Photo #2: Pipeline connection area at southern end of pipeline route near the new clubhouse.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly overcast skies** **Wind: light** **Humidity**

Date: January 15, 2019 **Time: 1200 - 1400** **Temp: 35** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: No contractors on site today

Active Site Work Areas: Contractors excavating area for the new back-up generator located between the new club house and the temporary club house.

Site Work Progress: Electrical conduit runs have been cut into the subsurface. No disturbance of the demarcation barrier or any signs for solid waste. No PID readings, odors or smells.

Digging is being done mostly by hand due to the fact that heavy equipment cannot access the area. Sawcutting and jacking of the highly compacted subsurface material is taking place. Contractors are attemping to complete the excavation since the pour fo the concrete pad is scheduled for tomorrow.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Customer Loyalty through Client Satisfaction.

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Photo: 1 contractors hand dig area for new generator installation.

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Photo #2: Sawcutting existing concrete in order to run electrical service to the new generator pad.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny skies** **Wind: moderate** **Humidity**

Date: January 16, 2019 **Time: 1100 - 1300** **Temp: 35** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Contractors on site today

Active Site Work Areas: Contractors excavating area for the new back-up generator located between the new club house and the temporary club house.

Site Work Progress: Electrical conduit runs have been cut into the subsurface. No disturbance of the demarcation barrier or any signs for solid waste. No PID readings, odors or smells.

Digging is being done mostly by hand due to the fact that heavy equipment cannot access the area. Sawcutting and jacking of the highly compacted subsurface material is taking place.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Customer Loyalty through Client Satisfaction.

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Photo: 1 new generator pad in ready condition for the concrete pour

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny skies, very mild** **Wind: light**
Humidity

Date: February 5, 2019 **Time: 1200 - 1520** **Temp: 55 - 60** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Control Point Surveyors on site.

Active Site Work Areas: Photographs of completed concrete pad for the generator. Photographs of gas main route and SSDS components.

Site Work Progress: All exterior work related to the pouring of the concrete pad for the new generator has been completed. Generator has not yet been installed. Inspection of the previous gas line installation work shows that cover material has compacted in some areas. Hydroseeded areas are generally protected from wind and runoff. Future inspections will be scheduled.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Customer Loyalty through Client Satisfaction.

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Photo: 1 new generator pad between new club house and temporary club house.

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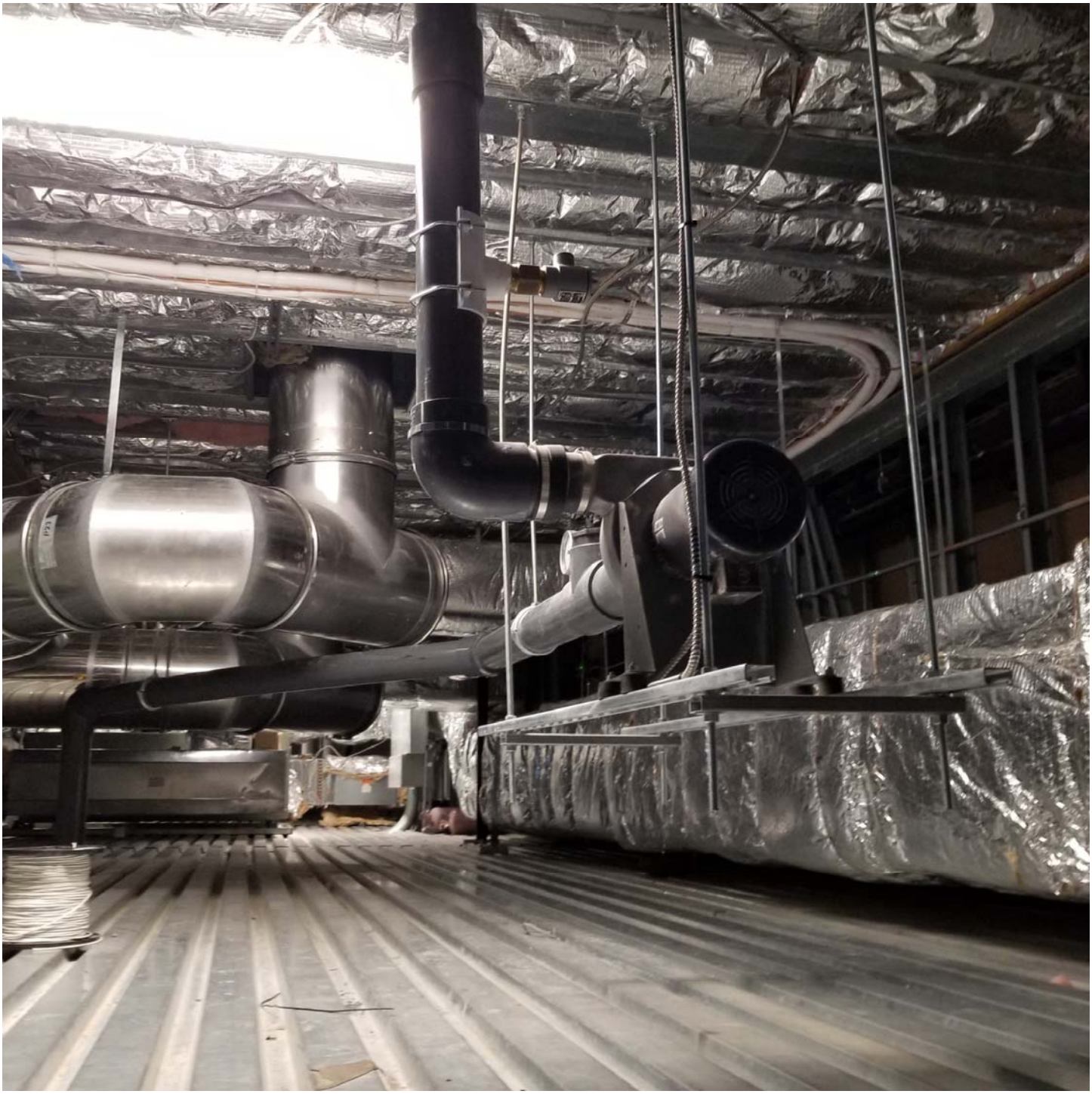

Photo 2: SSDS fan in operation in mezzanine section south side of club house.

APPENDIX J

Hampton-Clarke Project No. 7092827 Report dated October 30, 2017

Hampton-Clarke
Analytical & Field Services

175 ROUTE 46 WEST, UNIT D · FAIRFIELD, NJ 07004
2 MADISON ROAD, FAIRFIELD, NJ 07004
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: Trump Links

Client PO: Not Available

Report To: Maser Consulting
50 Chestnut Ridge Road
Montvale, NJ 07645

Attn: David Keil

Received Date: 9/28/2017

Report Date: 10/30/2017

Deliverables: NYDOH-R

Lab ID: AD00298

Lab Project No: 7092827

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

Robin Cousineau - Quality Assurance Director OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

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- Form 1 Sample and Blank Results
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- Form 5 Tune Summary & DFTPP Spectra
- Form 6,7 Calibration & RT Summary
- Form 8 Internal Standard Area Summary

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- Form 1 Sample and Blank Results
- Form 2 Surrogate Recovery
- Form 3 Spike Recovery
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Form 1 Sample and Blank Results

Form 2 Surrogate Recovery

Form 3 Spike Recovery

Form 4 Method Blank Summary

Form 5 Run Logs & RT Shift Summary

Form 6, 7 Calibration Summary

Herbicide Data **171**

Form 1 Sample and Blank Results

Form 2 Surrogate Recovery

Form 3 Spike Recovery

Form 4 Method Blank Summary

Form 5 Run Logs & RT Shift Summary

Form 6, 7 Calibration Summary

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Sample Summary

Client: Maser Consulting

Project: Trump Links

HC Project #: 7092827

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD00298-001	475 EXTERIOR NYRECYCLE Grab	Soil/Terracore	9/28/2017	9/28/2017
AD00298-002	475 EXTERIOR NYRECYCLE COMP	Aqueous	9/28/2017	9/28/2017

HC Case Narrative

Client: Maser Consulting
Project: Trump Links

HC Project: 7092827

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batch 64307 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and Matrix Spike Duplicate for batch 64307 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

TCLP Volatile Organic Analysis:

The Method Blank Spike for batch 64316 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and Matrix Spike Duplicate for batch 64316 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

Sample AD00298-002 was analyzed at a dilution due to high concentration of target analytes.

The Method Blank Spike for batch 63050 and 63067 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and Matrix Spike Duplicate for batch 63050 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

PCB Analysis:

Data conforms to method requirements.

Pesticide Analysis:

The Matrix Spike and Matrix Spike Duplicate for batch 63043 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Herbicide Analysis:

Data conforms to method requirements.

Metals Analysis:

Due to contamination in LCS/LCSMR, batch 62650 was reset for Ba.

The Matrix Spike and Matrix Spike Duplicate for batch 62650 had recoveries outside QC limits. Please refer to the applicable Form 5/7 for the recoveries.

The RPD between the QC sample and the Method Replicate had recoveries outside QC limits in batches 62644 and 62650. Please refer to the applicable Form 6/9 for the recoveries.

The MS/MSD RPD had recoveries outside QC limits in batch 62650. Please refer to the applicable Form 6/9 for the recoveries.

The serial dilution for batches 62644 and 62650 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

TCLP Metals Analysis:

Data conforms to method requirements.

Wet Chemistry Analysis:

Sample AD00298-002 was analyzed for Reactivity using SW-846 7.3. SW-846 7.3 is not a NELAP accredited parameter.

Subcontracted Analysis:

Please refer to attached subcontracted laboratory report. Sample AD00298-001 submitted to eurofins for Dioxin Scan (1613) analysis, PCDD & PCDF (8290) analysis, and Organophosphorous Pesticides (8141) analysis.

Robin Cousineau Quality Assurance Director	Or	Jean Revolus Laboratory Director	10/30/2017 Date

HC Executive Summary

Client: Maser Consulting

HC Project #: 7092827

Project: Trump Links

Lab#: AD00298-002 **Sample ID: 475 EXTERIOR NYRECYCLE CO**

Analyte	Units	RL	Result	Analytical Method
2,3,7,8-TCDD			Attached	EPA 1613
Barium	mg/kg	11	200	EPA 6010C
Barium	mg/l	0.25	0.41	EPA 6010C
Chromium	mg/kg	5.4	46	EPA 6010C
Copper	mg/kg	5.4	58	EPA 6010C
Lead	mg/kg	5.4	120	EPA 6010C
Arsenic	mg/kg	0.22	6.0	EPA 6020A
Mercury	mg/kg	0.091	0.37	EPA 7471B
a-Chlordane	mg/kg	0.0054	0.0082	EPA 8081B
Chlordane (Technical)	mg/kg	0.027	0.055	EPA 8081B
Chlordane (Total)	mg/kg	0.0054	0.016	EPA 8081B
p,p'-DDE	mg/kg	0.0027	0.0052	EPA 8081B
p,p'-DDT	mg/kg	0.0027	0.0091	EPA 8081B
y-Chlordane	mg/kg	0.0054	0.0076	EPA 8081B
Parathion			Attached	EPA 8141
Anthracene	mg/kg	0.18	0.24	EPA 8270D
Benzo[a]anthracene	mg/kg	0.18	0.95	EPA 8270D
Benzo[a]pyrene	mg/kg	0.18	0.94	EPA 8270D
Benzo[b]fluoranthene	mg/kg	0.18	1.2	EPA 8270D
Benzo[g,h,i]perylene	mg/kg	0.18	0.69	EPA 8270D
Benzo[k]fluoranthene	mg/kg	0.18	0.35	EPA 8270D
Chrysene	mg/kg	0.18	0.93	EPA 8270D
Dibenzo[a,h]anthracene	mg/kg	0.18	0.20	EPA 8270D
Fluoranthene	mg/kg	0.18	1.5	EPA 8270D
Indeno[1,2,3-cd]pyrene	mg/kg	0.18	0.62	EPA 8270D
Phenanthrene	mg/kg	0.18	0.61	EPA 8270D
Pyrene	mg/kg	0.18	1.7	EPA 8270D
PCDD & PCDF			Attached	EPA 8290

HC Report of Analysis

Client: Maser Consulting
Project: Trump Links

HC Project #: 7092827

Sample ID: 475 EXTERIOR NYRECYCLE Grab
Lab#: AD00298-001
Matrix: Soil/Terracore

Collection Date: 9/28/2017
Receipt Date: 9/28/2017

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		91

TCLP Volatiles 8260

Analyte	DF	Units	RL	Result
1,1-Dichloroethene	1	mg/l	0.0010	ND
1,2-Dichloroethane	1	mg/l	0.00050	ND
1,4-Dichlorobenzene	1	mg/l	0.0010	ND
2-Butanone	1	mg/l	0.0010	ND
Benzene	1	mg/l	0.00050	ND
Carbon tetrachloride	1	mg/l	0.0010	ND
Chlorobenzene	1	mg/l	0.0010	ND
Chloroform	1	mg/l	0.0010	ND
Tetrachloroethene	1	mg/l	0.0010	ND
Trichloroethene	1	mg/l	0.0010	ND
Vinyl chloride	1	mg/l	0.0010	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1.46	mg/kg	0.0032	ND
1,1,2,2-Tetrachloroethane	1.46	mg/kg	0.0032	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1.46	mg/kg	0.0032	ND
1,1-Dichloroethane	1.46	mg/kg	0.0032	ND
1,1-Dichloroethene	1.46	mg/kg	0.0032	ND
1,2,3-Trichloropropane	1.46	mg/kg	0.0032	ND
1,2,4-Trichlorobenzene	1.46	mg/kg	0.0032	ND
1,2-Dichlorobenzene	1.46	mg/kg	0.0032	ND
1,2-Dichloroethane	1.46	mg/kg	0.0032	ND
1,3-Dichlorobenzene	1.46	mg/kg	0.0032	ND
1,3-Dichloropropane	1.46	mg/kg	0.0032	ND
1,4-Dichlorobenzene	1.46	mg/kg	0.0032	ND
2-Butanone	1.46	mg/kg	0.0032	ND
4-Methyl-2-pentanone	1.46	mg/kg	0.0032	ND
Acetone	1.46	mg/kg	0.016	ND
Benzene	1.46	mg/kg	0.0016	ND
Carbon disulfide	1.46	mg/kg	0.0032	ND
Carbon tetrachloride	1.46	mg/kg	0.0032	ND
Chlorobenzene	1.46	mg/kg	0.0032	ND
Chloroethane	1.46	mg/kg	0.0032	ND
Chloroform	1.46	mg/kg	0.0032	ND
Dibromochloromethane	1.46	mg/kg	0.0032	ND
Ethylbenzene	1.46	mg/kg	0.0016	ND
m&p-Xylenes	1.46	mg/kg	0.0016	ND
Methylene chloride	1.46	mg/kg	0.0032	ND
o-Xylene	1.46	mg/kg	0.0016	ND
Tetrachloroethene	1.46	mg/kg	0.0032	ND
Toluene	1.46	mg/kg	0.0016	ND
trans-1,2-Dichloroethene	1.46	mg/kg	0.0032	ND
Trichloroethene	1.46	mg/kg	0.0032	ND

Sample ID: 475 EXTERIOR NYRECYCLE Grab
Lab#: AD00298-001
Matrix: Soil/Terracore

Collection Date: 9/28/2017
Receipt Date: 9/28/2017

Vinyl chloride	1.46	mg/kg	0.0032	ND
Xylenes (Total)	1.46	mg/kg	0.0016	ND

Sample ID: 475 EXTERIOR NYRECYCLE COMP
Lab#: AD00298-002
Matrix: Aqueous

Collection Date: 9/28/2017
Receipt Date: 9/28/2017

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		92

2,3,7,8-TCDD Scan

Analyte	DF	Units	RL	Result
2,3,7,8-TCDD	1			Attached

Chlorinated Herbicides 8151

Analyte	DF	Units	RL	Result
2,4,5-T	1	mg/kg	0.011	ND
2,4-D	1	mg/kg	0.011	ND
Silvex	1	mg/kg	0.011	ND

Mercury (Soil/Waste) 7471B

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.091	0.37

Mercury (TCLP) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	mg/l	0.00050	ND

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
a-Chlordane	1	mg/kg	0.0054	0.0082
Aldrin	1	mg/kg	0.0054	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane (Technical)	1	mg/kg	0.027	0.055
Chlordane (Total)	1	mg/kg	0.0054	0.016
delta-BHC	1	mg/kg	0.0054	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0054	ND
Endosulfan II	1	mg/kg	0.0054	ND
Endosulfan Sulfate	1	mg/kg	0.0054	ND
Endrin	1	mg/kg	0.0054	ND
Endrin Aldehyde	1	mg/kg	0.0054	ND
Endrin Ketone	1	mg/kg	0.0054	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0054	ND
Heptachlor Epoxide	1	mg/kg	0.0054	ND
Methoxychlor	1	mg/kg	0.0054	ND
p,p'-DDD	1	mg/kg	0.0027	ND
p,p'-DDE	1	mg/kg	0.0027	0.0052
p,p'-DDT	1	mg/kg	0.0027	0.0091
Toxaphene	1	mg/kg	0.027	ND
y-Chlordane	1	mg/kg	0.0054	0.0076

Organophosphorous Pesticides 8141

Analyte	DF	Units	RL	Result
Parathion	1			Attached

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND

Sample ID: 475 EXTERIOR NYRECYCLE COMP **Collection Date: 9/28/2017**
Lab#: AD00298-002 **Receipt Date: 9/28/2017**
Matrix: Aqueous

Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

PCDD & PCDF (8290)

Analyte	DF	Units	RL	Result
PCDD & PCDF	**1**			**Attached**

RCRA Metals 6010

Analyte	DF	Units	RL	Result
Barium	**1**	**mg/kg**	**11**	**200**
Chromium	**1**	**mg/kg**	**5.4**	**46**
Copper	**1**	**mg/kg**	**5.4**	**58**
Lead	**1**	**mg/kg**	**5.4**	**120**

RCRA Metals ICP-MS 6020

Analyte	DF	Units	RL	Result
Arsenic	**1**	**mg/kg**	**0.22**	**6.0**
Cadmium	1	mg/kg	0.43	ND
Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND

Reactive Cyanide

Analyte	DF	Units	RL	Result
Cyanide (Reactive)	1	mg/kg	0.50	ND

Reactive Sulfide

Analyte	DF	Units	RL	Result
Sulfide (Reactive)	1	mg/kg	100	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
2,4,5-Trichlorophenol	5	mg/kg	0.18	ND
2,4-Dichlorophenol	5	mg/kg	0.045	ND
2,4-Dinitrophenol	5	mg/kg	0.91	ND
2,6-Dinitrotoluene	5	mg/kg	0.18	ND
2-Chlorophenol	5	mg/kg	0.18	ND
2-Methylnaphthalene	5	mg/kg	0.18	ND
2-Methylphenol	5	mg/kg	0.045	ND
2-Nitroaniline	5	mg/kg	0.18	ND
2-Nitrophenol	5	mg/kg	0.18	ND
3&4-Methylphenol	5	mg/kg	0.045	ND
3,3'-Dichlorobenzidine	5	mg/kg	0.18	ND
3-Nitroaniline	5	mg/kg	0.18	ND
4-Chloro-3-methylphenol	5	mg/kg	0.18	ND
4-Chloroaniline	5	mg/kg	0.045	ND
4-Nitrophenol	5	mg/kg	0.18	ND
Acenaphthene	5	mg/kg	0.18	ND
Acenaphthylene	5	mg/kg	0.18	ND
Aniline	5	mg/kg	0.045	ND
Anthracene	**5**	**mg/kg**	**0.18**	**0.24**
Benzo[a]anthracene	**5**	**mg/kg**	**0.18**	**0.95**
Benzo[a]pyrene	**5**	**mg/kg**	**0.18**	**0.94**
Benzo[b]fluoranthene	**5**	**mg/kg**	**0.18**	**1.2**
Benzo[g,h,i]perylene	**5**	**mg/kg**	**0.18**	**0.69**

Sample ID: 475 EXTERIOR NYRECYCLE COMP
Lab#: AD00298-002
Matrix: Aqueous

Collection Date: 9/28/2017
Receipt Date: 9/28/2017

Benzo[k]fluoranthene	**5**	**mg/kg**	**0.18**	**0.35**
bis(2-Ethylhexyl)phthalate	5	mg/kg	0.18	ND
Butylbenzylphthalate	5	mg/kg	0.18	ND
Chrysene	**5**	**mg/kg**	**0.18**	**0.93**
Dibenzo[a,h]anthracene	**5**	**mg/kg**	**0.18**	**0.20**
Dibenzofuran	5	mg/kg	0.045	ND
Diethylphthalate	5	mg/kg	0.18	ND
Dimethylphthalate	5	mg/kg	0.18	ND
Di-n-butylphthalate	5	mg/kg	0.045	ND
Di-n-octylphthalate	5	mg/kg	0.18	ND
Fluoranthene	**5**	**mg/kg**	**0.18**	**1.5**
Fluorene	5	mg/kg	0.18	ND
Hexachlorobenzene	5	mg/kg	0.18	ND
Indeno[1,2,3-cd]pyrene	**5**	**mg/kg**	**0.18**	**0.62**
Isophorone	5	mg/kg	0.18	ND
Naphthalene	5	mg/kg	0.045	ND
Nitrobenzene	5	mg/kg	0.18	ND
Pentachlorophenol	5	mg/kg	0.91	ND
Phenanthrene	**5**	**mg/kg**	**0.18**	**0.61**
Phenol	5	mg/kg	0.18	ND
Pyrene	**5**	**mg/kg**	**0.18**	**1.7**

TCLP Metals 6010

Analyte	DF	Units	RL	Result
Arsenic	1	mg/l	0.10	ND
Barium	**1**	**mg/l**	**0.25**	**0.41**
Cadmium	1	mg/l	0.050	ND
Chromium	1	mg/l	0.10	ND
Lead	1	mg/l	0.050	ND
Selenium	1	mg/l	0.10	ND
Silver	1	mg/l	0.050	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

MDL = Method Detection Limit

RL* = Reporting Limit

ND = Not Detected

RT = Retention Time

NA = Not Applicable

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Maser Consulting

Project: Trump Links

HC Project #: 7092827

Lab#: AD00298-001 **Sample ID: 475 EXTERIOR NYRECYCLE Grab**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	9/29/17 00:00	jessica
TCLP Volatiles 8260	EPA 5030C			EPA 8260C	10/2/17 09:16	SG
TCLP Zero Headspace Extraction	EPA 1311	09/29/17 16:15	jprevilon			
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	9/29/17 08:03	SG

Lab#: AD00298-002 **Sample ID: 475 EXTERIOR NYRECYCLE COMP**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	9/29/17 00:00	jessica
2,3,7,8-TCDD Scan	EPA 1613			EPA 1613	10/21/17 19:41	eurofins
Chlorinated Herbicides 8151		10/03/17 10:30	marie	EPA 8151A	10/4/17 16:37	MLC/MS/ZM
Mercury (Soil/Waste) 7471B	EPA 7471B	09/30/17 11:00	CARMELA	EPA 7471B	10/2/17 12:38	CJA
Mercury (TCLP) 7470A	EPA 7470A	10/04/17 09:00	aadewusi	EPA 7470A	10/4/17 18:04	OA
Organochlorine Pesticides 8081	3510C/3550C	10/03/17 07:15	jkr	EPA 8081B	10/4/17 03:39	MS/MLC/ZM
Organophosphorous Pesticides 8141				EPA 8141	10/9/17 20:24	eurofins
PCB 8082	3510C/3550C	10/03/17 07:15	jkr	EPA 8082A	10/3/17 21:37	MS/MLC/ZM
PCDD & PCDF (8290)				EPA 8290	10/5/17 00:00	eurofins
RCRA Metals 6010	3005&10/3050	09/30/17 11:00	CARMELA	EPA 6010C	10/4/17 12:51	CJA
RCRA Metals 6010	3005&10/3050	09/30/17 11:00	CARMELA	EPA 6010C	10/4/17 16:51	CJA
RCRA Metals ICP-MS 6020	3005&10/3050	09/30/17 11:00	Carmela	EPA 6020A	10/2/17 14:35	PC
RCRA Metals ICP-MS 6020	3005&10/3050	09/30/17 11:00	Carmela	EPA 6020A	10/3/17 14:25	PC
Reactive Cyanide	SW846 7.3.3	10/03/17	jessica	SW846 7.3.3	10/3/17 14:51	JMP
Reactive Sulfide	SW846 7.3.4	10/03/17	JMP	SW846 7.3.4	10/3/17 00:00	JMP
Semivolatile Organics (no search) 8270	3510C/3550C	10/03/17 11:15	lynda	EPA 8270D	10/4/17 15:12	AH/JB
TCLP Metals 6010	3005&10/3050	10/04/17 09:00	aadewusi	EPA 6010C	10/4/17 16:32	OA
TCLP Metals Extraction 1311	EPA 1311	10/02/17 13:22	Ramos		10/3/17 10:15	Ramos

Chain of Custody

7092827 0013

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

CHAIN OF CUSTODY RECORD

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Project # (Lab Use Only): 7092827

Page 1 of 1

Customer Information

1a) Customer: Prater Consulting
Address: 50 Chestnut Ridge Road, Montvale, NJ 07645
1b) Email/Cell/Fax/Ph: (201) 937-3515
1c) Send Invoice to: D. Keil
1d) Send Report to: D. Keil

Project Information

2a) Project: Trump Links
2b) Project Mgr: D. Keil
2c) Project Location (City/State): 475 Exterior, Bronx, NY
2d) Quote/PO # (If Applicable):

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%)*	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%)*	Reduced:	EnviroData
3 Business Days (50%)*	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%)*	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY ↓

Batch # AN00298

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water, S - Soil, A - Air
GW - Ground Water, SL - Sludge
WW - Waste Water, OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Composite (C)	Grab (G)	PCB's	Pesticides	2,3,7,8-TCDD	VO TCLP	SO Solids	VO Tetracore	RCRA Metals	BNA	PAST / HERB	SVOC	TCLP Metals	8) # of Bottles None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
001/002	475 Exterior Nyklyne	S	9/25	1400	X		X	X	X	X	X	X	X	X	X	X	X	6	2						2	
																					RS 9/28/17					

10) Relinquished by:	Accepted by:	Date	Time
D. Keil	[signature]	9/25/17	15:15

11) Sampler (print name): Date:

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270D SIM)
- [ ] VOC (8260C SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2-3

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

PROJECT MODIFICATIONS

Client: MASER
Project: Trump Links

HC Project #: 7092827

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csmith192.168.1.73
10/3/2017 12:04:19 PM

Per David Kiel, The Total VO and TCLP VO are grab samples; expedite all analysis possible to a 4 day TAT.

CONDITION UPON RECEIPT

Batch Number AD00298

Entered By: Ricardo
Date Entered 9/28/2017 4:04:00 PM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	NO	Are the COC seals intact?
4	T0056	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.3
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify
14	NA	Corrective actions (Specify item number and corrective action taken).

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD00298-001	09/28/17 15:15	RICAR	0	M	Received
AD00298-001	09/28/17 16:04	RICAR	0	M	Login
AD00298-001	09/28/17 16:09	R31	1	A	NONE
AD00298-001	09/28/17 18:38	WP	1	A	VOA
AD00298-001	09/28/17 18:43	R31	1	A	NONE
AD00298-001	09/28/17 16:09	F18	2	A	NONE
AD00298-001	09/28/17 16:09	F18	4	A	NONE
AD00298-001	09/29/17 07:35	SG	4	A	VOA
AD00298-001	09/29/17 10:24	JMP	10	A	SOLIDS
AD00298-001	09/29/17 10:26	R12	10	A	NONE
AD00298-001	09/29/17 15:46	R12	10	A	NONE
AD00298-001	09/29/17 15:46	JP	10	A	tclp-zhe
AD00298-002	09/28/17 15:15	RICAR	0	M	Received
AD00298-002	09/28/17 16:38	RICAR	0	M	Login
AD00298-002	09/29/17 10:24	JMP	1	A	SOLIDS
AD00298-002	09/29/17 10:26	R12	1	A	NONE
AD00298-002	09/30/17 11:04	CJA	1	M	TDSI-HG
AD00298-002	09/30/17 16:04	R12	1	A	NONE
AD00298-002	10/02/17 12:07	CJA	1	A	TDSI
AD00298-002	10/02/17 16:30	R12	1	A	NONE
AD00298-002	10/03/17 07:01	JKR	1	A	P/P
AD00298-002	10/03/17 07:02	R12	1	A	NONE
AD00298-002	10/03/17 11:00	JP	1	A	bna
AD00298-002	10/03/17 11:02	R12	1	A	NONE
AD00298-002	10/04/17 10:37	JP	1	A	bna
AD00298-002	10/04/17 10:39	R12	1	A	NONE
AD00298-002	10/03/17 09:03	JMP	5	A	RCN/BN/RS
AD00298-002	10/03/17 09:45	R12	5	A	NONE
AD00298-002	10/03/17 10:29	R12	5	A	NONE
AD00298-002	10/03/17 10:29	MSL	5	A	herb

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD00298-001
Client Id: 475 EXTERIOR NYRECYC
Data File: 6M59253.D
Analysis Date: 09/29/17 08:03
Date Rec/Extracted: 09/28/17-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 3.43g
Final Vol: NA
Dilution: 1.46
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0032	U	75-15-0	Carbon Disulfide	0.0032	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0032	U	56-23-5	Carbon Tetrachloride	0.0032	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0032	U	108-90-7	Chlorobenzene	0.0032	U
75-34-3	1,1-Dichloroethane	0.0032	U	75-00-3	Chloroethane	0.0032	U
75-35-4	1,1-Dichloroethene	0.0032	U	67-66-3	Chloroform	0.0032	U
96-18-4	1,2,3-Trichloropropane	0.0032	U	124-48-1	Dibromochloromethane	0.0032	U
120-82-1	1,2,4-Trichlorobenzene	0.0032	U	100-41-4	Ethylbenzene	0.0016	U
95-50-1	1,2-Dichlorobenzene	0.0032	U	79601-23-1	m&p-Xylenes	0.0016	U
107-06-2	1,2-Dichloroethane	0.0032	U	75-09-2	Methylene Chloride	0.0032	U
541-73-1	1,3-Dichlorobenzene	0.0032	U	95-47-6	o-Xylene	0.0016	U
142-28-9	1,3-Dichloropropane	0.0032	U	127-18-4	Tetrachloroethene	0.0032	U
106-46-7	1,4-Dichlorobenzene	0.0032	U	108-88-3	Toluene	0.0016	U
78-93-3	2-Butanone	0.0032	U	156-60-5	trans-1,2-Dichloroethene	0.0032	U
108-10-1	4-Methyl-2-Pentanone	0.0032	U	79-01-6	Trichloroethene	0.0032	U
67-64-1	Acetone	0.016	U	75-01-4	Vinyl Chloride	0.0032	U
71-43-2	Benzene	0.0016	U	1330-20-7	Xylenes (Total)	0.0016	U

Worksheet #: 439138

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

7092827 0019

SampleID : AD00298-001 Operator : SG Qt Meth : 6M_S09074M
Data File: 6M59253.D Sam Mult : 1 Vial# : 9 Qt On : 09/29/17 08:53
Acq On : 09/29/17 08:03 Misc : S,5g!4 Qt Upd On: 09/07/17 10:00

Data Path : G:\GcMsData\2017\GCMS_6\Data\09-29-17\
Qt Path : G:\GcMsData\2017\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
4) Fluorobenzene	4.750	96	163949	30.00 ug/l	-0.01
52) Chlorobenzene-d5	6.321	117	84388	30.00 ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.567	152	31276	30.00 ug/l	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	4.371	111	49551	36.58 ug/l	-0.01
Spiked Amount 30.000			Recovery	= 121.93%	
39) 1,2-Dichloroethane-d4	4.569	67	21279	34.02 ug/l	-0.01
Spiked Amount 30.000			Recovery	= 113.40%	
66) Toluene-d8	5.574	98	138950	30.33 ug/l	0.00
Spiked Amount 30.000			Recovery	= 101.10%	
76) Bromofluorobenzene	6.935	174	29705	32.41 ug/l	0.00
Spiked Amount 30.000			Recovery	= 108.03%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

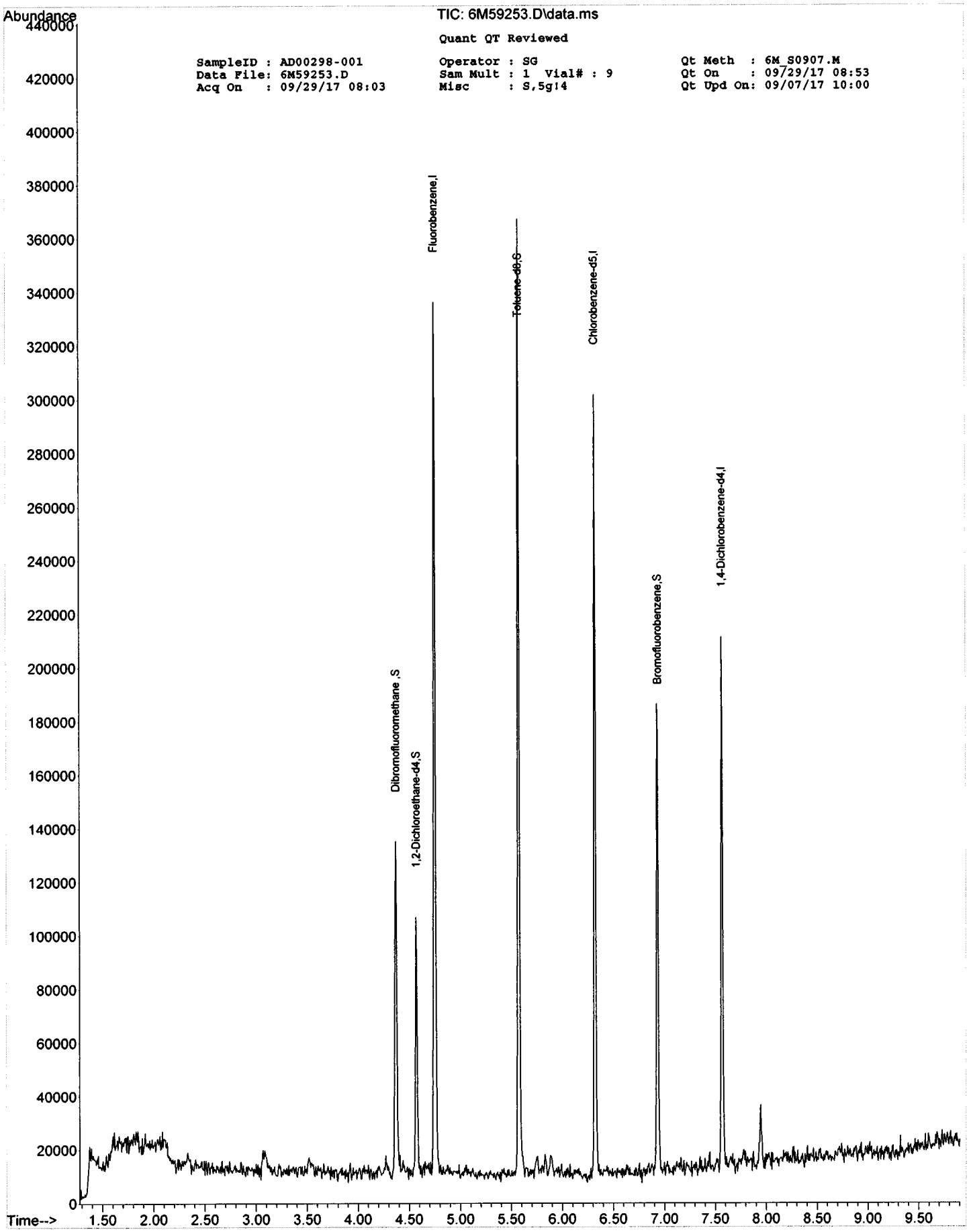
Abundance
TIC: 6M59253.D\data.ms
Quant QT Reviewed
SampleID : AD00298-001
Data File: 6M59253.D
Acq On : 09/29/17 08:03
Operator : SG
Sam Mult : 1 Vial# : 9
Misc : S,5g!4
Qt Meth : 6M_S0907.M
Qt On : 09/29/17 08:53
Qt Upd On: 09/07/17 10:00
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 6M59251.D
Analysis Date: 09/29/17 07:22
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	75-15-0	Carbon Disulfide	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	75-00-3	Chloroethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	67-66-3	Chloroform	0.0020	U
96-18-4	1,2,3-Trichloropropane	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	79601-23-1	m&p-Xylenes	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	75-09-2	Methylene Chloride	0.0020	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	95-47-6	o-Xylene	0.0010	U
142-28-9	1,3-Dichloropropane	0.0020	U	127-18-4	Tetrachloroethene	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-88-3	Toluene	0.0010	U
78-93-3	2-Butanone	0.0020	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	79-01-6	Trichloroethene	0.0020	U
67-64-1	Acetone	0.010	U	75-01-4	Vinyl Chloride	0.0020	U
71-43-2	Benzene	0.0010	U				

Worksheet #: 439138

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT/LSC Reviewed)

7092827 0022

SampleID : DAILY BLANK
Data File: 6M59251.D
Acq On : 09/29/17 07:22

Operator : SG
Sam Mult : 1 Vial# : 7
Misc : S,5g

Qt Meth : 6M_S0907.M
Qt On : 09/29/17 07:38
Qt Upd On: 09/07/17 10:00

Data Path : G:\GcMsData\2017\GCMS_6\Data\09-29-17\
Qt Path : G:\GcMsData\2017\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.750	96	175495	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.321	117	92814	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.566	152	34937	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.371	111	55101	38.00	ug/l	-0.01
Spiked Amount 30.000			Recovery = 126.67%			
39) 1,2-Dichloroethane-d4	4.569	67	22522	33.64	ug/l	-0.01
Spiked Amount 30.000			Recovery = 112.13%			
66) Toluene-d8	5.574	98	146197	29.01	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.70%			
76) Bromofluorobenzene	6.934	174	30854	30.13	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.43%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

lu

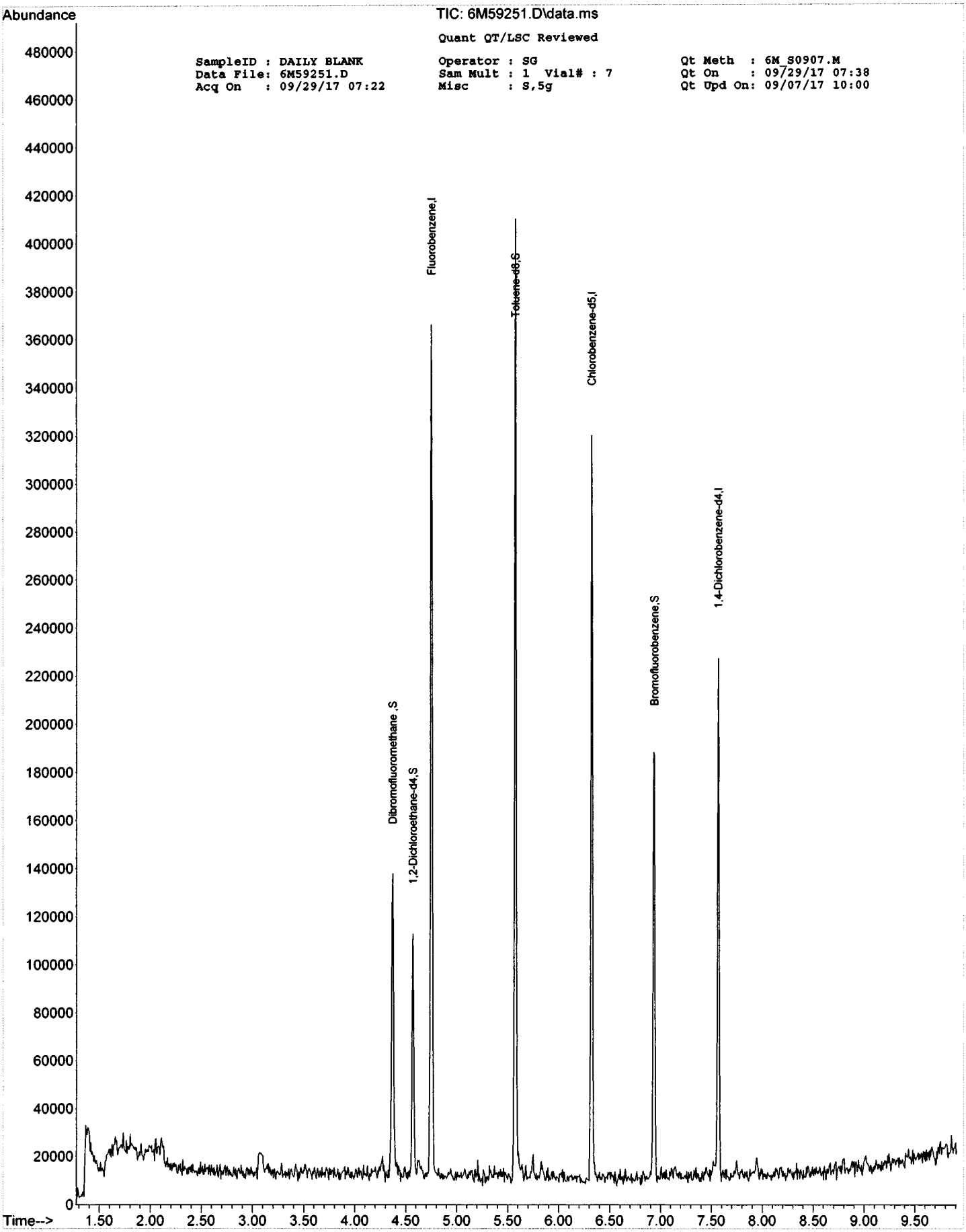
Abundance
TIC: 6M59251.D\data.ms
Quant QT/LSC Reviewed
SampleID : DAILY BLANK
Data File: 6M59251.D
Acq On : 09/29/17 07:22
Operator : SG
Sam Mult : 1 Vial# : 7
Misc : S,5g
Qt Meth : 6M_S0907.M
Qt On : 09/29/17 07:38
Qt Upd On: 09/07/17 10:00
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8260C

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
6M59251.D	DAILY BLANK	S	09/29/17 07:22	1		127	112	97	100		
6M59253.D	AD00298-001	S	09/29/17 08:03	1		122	113	101	108		
6M59256.D	MBS64307	S	09/29/17 08:53	1		112	118	100	102		
6M59257.D	AD00091-024(MS)	S	09/29/17 09:09	1		91	82	122	104		
6M59258.D	AD00091-024(MSD)	S	09/29/17 09:26	1		90	75	122	103		
6M59277.D	AD00091-024	S	09/29/17 14:42	1		123	123	94	102		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260C

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	63-140
S2=1,2-Dichloroethane-d4	30	63-143
S3=Toluene-d8	30	68-122
S4=Bromofluorobenzene	30	64-129

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64307

Data File	Sample ID:	Analysis Date
Spike or Dup: 6M59256.D	MBS64307	9/29/2017 8:53:00 AM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	58.4125	0	50	117	20	130
Dichlorodifluoromethane	1	21.1145	0	50	42	20	130
Chloromethane	1	47.4999	0	50	95	20	130
Bromomethane	1	51.6614	0	50	103	20	130
Vinyl Chloride	1	47.4669	0	50	95	20	130
Chloroethane	1	47.7232	0	50	95	20	130
Trichlorofluoromethane	1	61.2703	0	50	123	20	130
Ethyl ether	1	43.8466	0	50	88	50	130
Furan	1	45.888	0	50	92	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	46.7675	0	50	94	50	130
Methylene Chloride	1	47.7871	0	50	96	50	130
Acrolein	1	169.7341	0	200	85	20	130
Acrylonitrile	1	41.7925	0	50	84	20	130
Iodomethane	1	61.7347	0	50	123	50	130
Acetone	1	298.4298	0	200	149*	20	130
Carbon Disulfide	1	64.7424	0	50	129	50	130
t-Butyl Alcohol	1	216.1739	0	200	108	20	130
n-Hexane	1	43.7846	0	50	88	50	130
Di-isopropyl-ether	1	43.5546	0	50	87	50	130
1,1-Dichloroethene	1	32.3067	0	50	65	50	130
Methyl Acetate	1	41.647	0	50	83	50	130
Methyl-t-butyl ether	1	38.5845	0	50	77	50	130
1,1-Dichloroethane	1	48.3268	0	50	97	50	130
trans-1,2-Dichloroethene	1	47.8015	0	50	96	50	130
Ethyl-t-butyl ether	1	39.1607	0	50	78	50	130
cis-1,2-Dichloroethene	1	46.4619	0	50	93	50	130
Bromochloromethane	1	33.8689	0	50	68	50	130
2,2-Dichloropropane	1	43.548	0	50	87	50	130
Ethyl acetate	1	48.5455	0	50	97	50	130
1,4-Dioxane	1	2603.958	0	2500	104	50	130
1,1-Dichloropropene	1	48.8289	0	50	98	50	130
Chloroform	1	45.3348	0	50	91	50	130
Cyclohexane	1	40.9155	0	50	82	50	130
1,2-Dichloroethane	1	49.0922	0	50	98	50	130
2-Butanone	1	48.1217	0	50	96	20	130
1,1,1-Trichloroethane	1	46.0366	0	50	92	50	130
Carbon Tetrachloride	1	48.3382	0	50	97	50	130
Vinyl Acetate	1	39.3918	0	50	79	50	130
Bromodichloromethane	1	43.3777	0	50	87	50	130
Methylcyclohexane	1	42.7708	0	50	86	50	130
Dibromomethane	1	50.6767	0	50	101	50	130
1,2-Dichloropropane	1	40.7171	0	50	81	50	130
Trichloroethene	1	44.1908	0	50	88	50	130
Benzene	1	45.0411	0	50	90	50	130
tert-Amyl methyl ether	1	36.0946	0	50	72	50	130
Iso-propylacetate	1	42.6147	0	50	85	50	130
Methyl methacrylate	1	45.4727	0	50	91	50	130
Dibromochloromethane	1	50.3179	0	50	101	50	130
2-Chloroethylvinylether	1	40.0014	0	50	80	50	130
cis-1,3-Dichloropropene	1	40.8153	0	50	82	50	130
trans-1,3-Dichloropropene	1	38.0716	0	50	76	50	130
Ethyl methacrylate	1	40.3793	0	50	81	50	130
1,1,2-Trichloroethane	1	45.5803	0	50	91	50	130
1,2-Dibromoethane	1	46.4988	0	50	93	50	130
1,3-Dichloropropane	1	45.5561	0	50	91	50	130
4-Methyl-2-Pentanone	1	40.1342	0	50	80	20	130
2-Hexanone	1	39.6314	0	50	79	20	130
Tetrachloroethene	1	47.3499	0	50	95	50	130
Toluene	1	44.3817	0	50	89	50	130
1,1,1,2-Tetrachloroethane	1	49.465	0	50	99	50	130
Chlorobenzene	1	42.187	0	50	84	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64307

n-Butyl acrylate	1	31.4529	0	50	63	50	130
n-Amyl acetate	1	38.1759	0	50	76	50	130
Bromoform	1	42.5865	0	50	85	20	130
Ethylbenzene	1	45.454	0	50	91	50	130
1,1,2,2-Tetrachloroethane	1	36.7101	0	50	73	50	130
Styrene	1	45.9495	0	50	92	50	130
m&p-Xylenes	1	83.3752	0	100	83	50	130
o-Xylene	1	41.5956	0	50	83	50	130
trans-1,4-Dichloro-2-butene	1	40.0909	0	50	80	20	130
1,3-Dichlorobenzene	1	42.7266	0	50	85	50	130
1,4-Dichlorobenzene	1	41.7483	0	50	83	50	130
1,2-Dichlorobenzene	1	42.9087	0	50	86	50	130
Isopropylbenzene	1	40.9099	0	50	82	50	130
Cyclohexanone	1	180.514	0	250	72	50	130
Camphene	1	42.2603	0	50	85	50	130
1,2,3-Trichloropropane	1	42.8148	0	50	86	50	130
2-Chlorotoluene	1	44.6097	0	50	89	50	130
p-Ethyltoluene	1	43.9309	0	50	88	50	130
4-Chlorotoluene	1	46.2716	0	50	93	50	130
n-Propylbenzene	1	41.7214	0	50	83	50	130
Bromobenzene	1	43.2018	0	50	86	50	130
1,3,5-Trimethylbenzene	1	38.2972	0	50	77	50	130
Butyl methacrylate	1	37.392	0	50	75	50	130
t-Butylbenzene	1	41.8507	0	50	84	50	130
1,2,4-Trimethylbenzene	1	39.9484	0	50	80	50	130
sec-Butylbenzene	1	40.1796	0	50	80	50	130
4-Isopropyltoluene	1	39.7219	0	50	79	50	130
n-Butylbenzene	1	40.1306	0	50	80	50	130
p-Diethylbenzene	1	42.2301	0	50	84	50	130
1,2,4,5-Tetramethylbenzene	1	39.2736	0	50	79	50	130
1,2-Dibromo-3-Chloropropane	1	36.5137	0	50	73	50	130
Camphor	1	251.0284	0	500	50	50	130
Hexachlorobutadiene	1	35.0004	0	50	70	50	130
1,2,4-Trichlorobenzene	1	31.5375	0	50	63	50	130
1,2,3-Trichlorobenzene	1	28.6857	0	50	57	50	130
Naphthalene	1	25.1884	0	50	50	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64307

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M59257.D	AD00091-024(MS)	9/29/2017 9:09:00 AM
Non Spike(If applicable):	6M59277.D	AD00091-024	9/29/2017 2:42:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	39.8635	0	50	80	20	130
Dichlorodifluoromethane	1	28.0765	0	50	56	20	130
Chloromethane	1	38.262	0	50	77	20	130
Bromomethane	1	36.6432	0	50	73	20	130
Vinyl Chloride	1	23.5948	0	50	47	20	130
Chloroethane	1	39.7443	0	50	79	20	130
Trichlorofluoromethane	1	51.533	0	50	103	20	130
Ethyl ether	1	33.119	0	50	66	50	130
Furan	1	23.7085	0	50	47*	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	42.5205	0	50	85	50	130
Methylene Chloride	1	35.7875	0	50	72	50	130
Acrolein	1	143.4806	0	200	72	20	130
Acrylonitrile	1	35.1931	0	50	70	20	130
Iodomethane	1	23.0118	0	50	46*	50	130
Acetone	1	242.5282	0	200	121	20	130
Carbon Disulfide	1	51.9508	0	50	104	50	130
t-Butyl Alcohol	1	171.1774	0	200	86	20	130
n-Hexane	1	35.3117	0	50	71	50	130
Di-isopropyl-ether	1	37.3683	0	50	75	50	130
1,1-Dichloroethene	1	28.6575	0	50	57	50	130
Methyl Acetate	1	37.8856	0	50	76	50	130
Methyl-t-butyl ether	1	32.7981	0	50	66	50	130
1,1-Dichloroethane	1	40.3315	0	50	81	50	130
trans-1,2-Dichloroethene	1	40.6148	0	50	81	50	130
Ethyl-t-butyl ether	1	31.8889	0	50	64	50	130
cis-1,2-Dichloroethene	1	40.2079	0	50	80	50	130
Bromochloromethane	1	28.7757	0	50	58	50	130
2,2-Dichloropropane	1	40.0924	0	50	80	50	130
Ethyl acetate	1	38.2165	0	50	76	50	130
1,4-Dioxane	1	2254.419	0	2500	90	50	130
1,1-Dichloropropene	1	41.0603	0	50	82	50	130
Chloroform	1	36.4694	0	50	73	50	130
Cyclohexane	1	34.9404	0	50	70	50	130
1,2-Dichloroethane	1	41.4891	0	50	83	50	130
2-Butanone	1	42.0447	0	50	84	20	130
1,1,1-Trichloroethane	1	40.9569	0	50	82	50	130
Carbon Tetrachloride	1	36.4267	0	50	73	50	130
Vinyl Acetate	1	29.7231	0	50	59	50	130
Bromodichloromethane	1	34.544	0	50	69	50	130
Methylcyclohexane	1	35.2553	0	50	71	50	130
Dibromomethane	1	41.5451	0	50	83	50	130
1,2-Dichloropropane	1	34.4827	0	50	69	50	130
Trichloroethene	1	25.9108	0	50	52	50	130
Benzene	1	32.5597	0	50	65	50	130
tert-Amyl methyl ether	1	30.1705	0	50	60	50	130
Iso-propylacetate	1	43.3083	0	50	87	50	130
Methyl methacrylate	1	49.3727	0	50	99	50	130
Dibromochloromethane	1	45.803	0	50	92	50	130
2-Chloroethylvinylether	1	39.5237	0	50	79	50	130
cis-1,3-Dichloropropene	1	48.503	0	50	97	50	130
trans-1,3-Dichloropropene	1	47.0076	0	50	94	50	130
Ethyl methacrylate	1	45.1695	0	50	90	50	130
1,1,2-Trichloroethane	1	54.801	0	50	110	50	130
1,2-Dibromoethane	1	45.668	0	50	91	50	130
1,3-Dichloropropane	1	54.2007	0	50	108	50	130
4-Methyl-2-Pentanone	1	45.1533	0	50	90	20	130
2-Hexanone	1	49.1212	0	50	98	20	130
Tetrachloroethene	1	55.7929	0	50	112	50	130
Toluene	1	47.8545	0	50	96	50	130
1,1,1,2-Tetrachloroethane	1	52.9831	0	50	106	50	130
Chlorobenzene	1	48.1178	0	50	96	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64307

n-Butyl acrylate	1	23.586	0	50	47*	50	130
n-Amyl acetate	1	29.9631	0	50	60	50	130
Bromoform	1	35.2066	0	50	70	20	130
Ethylbenzene	1	30.0534	0	50	60	50	130
1,1,2,2-Tetrachloroethane	1	31.8168	0	50	64	50	130
Styrene	1	34.5728	0	50	69	50	130
m&p-Xylenes	1	59.6228	0	100	60	50	130
o-Xylene	1	28.8077	0	50	58	50	130
trans-1,4-Dichloro-2-butene	1	32.54	0	50	65	20	130
1,3-Dichlorobenzene	1	31.4532	0	50	63	50	130
1,4-Dichlorobenzene	1	32.1446	0	50	64	50	130
1,2-Dichlorobenzene	1	32.6726	0	50	65	50	130
Isopropylbenzene	1	31.0477	0	50	62	50	130
Cyclohexanone	1	138.9404	0	250	56	50	130
Camphene	1	34.5305	0	50	69	50	130
1,2,3-Trichloropropane	1	37.4488	0	50	75	50	130
2-Chlorotoluene	1	39.8861	0	50	80	50	130
p-Ethyltoluene	1	32.4194	0	50	65	50	130
4-Chlorotoluene	1	37.2774	0	50	75	50	130
n-Propylbenzene	1	33.5616	0	50	67	50	130
Bromobenzene	1	37.7389	0	50	75	50	130
1,3,5-Trimethylbenzene	1	29.9986	0	50	60	50	130
Butyl methacrylate	1	32.1586	0	50	64	50	130
t-Butylbenzene	1	31.3335	0	50	63	50	130
1,2,4-Trimethylbenzene	1	29.3475	0	50	59	50	130
sec-Butylbenzene	1	29.1259	0	50	58	50	130
4-Isopropyltoluene	1	30.9337	0	50	62	50	130
n-Butylbenzene	1	31.3014	0	50	63	50	130
p-Diethylbenzene	1	33.1163	0	50	66	50	130
1,2,4,5-Tetramethylbenzene	1	30.4027	0	50	61	50	130
1,2-Dibromo-3-Chloropropane	1	31.0564	0	50	62	50	130
Camphor	1	478.3473	0	500	96	50	130
Hexachlorobutadiene	1	27.3384	0	50	55	50	130
1,2,4-Trichlorobenzene	1	24.5874	0	50	49*	50	130
1,2,3-Trichlorobenzene	1	22.9994	0	50	46*	50	130
Naphthalene	1	25.0174	0	50	50	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64307

Data File	Sample ID:	Analysis Date
Spike or Dup: 6M59258.D	AD00091-024(MSD)	9/29/2017 9:26:00 AM
Non Spike(If applicable): 6M59277.D	AD00091-024	9/29/2017 2:42:00 PM
Inst Blank(If applicable):		

Method: 8260C Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	53.6212	0	50	107	20	130
Dichlorodifluoromethane	1	28.9838	0	50	58	20	130
Chloromethane	1	40.4329	0	50	81	20	130
Bromomethane	1	36.0111	0	50	72	20	130
Vinyl Chloride	1	39.9415	0	50	80	20	130
Chloroethane	1	38.6589	0	50	77	20	130
Trichlorofluoromethane	1	52.2923	0	50	105	20	130
Ethyl ether	1	35.0986	0	50	70	50	130
Furan	1	36.181	0	50	72	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	43.0554	0	50	86	50	130
Methylene Chloride	1	37.3463	0	50	75	50	130
Acrolein	1	91.0123	0	200	46	20	130
Acrylonitrile	1	32.1245	0	50	64	20	130
Iodomethane	1	41.4824	0	50	83	50	130
Acetone	1	275.4014	0	200	138*	20	130
Carbon Disulfide	1	53.4698	0	50	107	50	130
t-Butyl Alcohol	1	160.889	0	200	80	20	130
n-Hexane	1	35.5929	0	50	71	50	130
Di-isopropyl-ether	1	34.7625	0	50	70	50	130
1,1-Dichloroethene	1	43.7102	0	50	87	50	130
Methyl Acetate	1	32.7766	0	50	66	50	130
Methyl-t-butyl ether	1	31.4797	0	50	63	50	130
1,1-Dichloroethane	1	38.4997	0	50	77	50	130
trans-1,2-Dichloroethene	1	39.1524	0	50	78	50	130
Ethyl-t-butyl ether	1	28.8234	0	50	58	50	130
cis-1,2-Dichloroethene	1	37.6711	0	50	75	50	130
Bromochloromethane	1	28.3662	0	50	57	50	130
2,2-Dichloropropane	1	34.4102	0	50	69	50	130
Ethyl acetate	1	37.7287	0	50	75	50	130
1,4-Dioxane	1	1891.192	0	2500	76	50	130
1,1-Dichloropropene	1	39.9262	0	50	80	50	130
Chloroform	1	33.3975	0	50	67	50	130
Cyclohexane	1	30.9365	0	50	62	50	130
1,2-Dichloroethane	1	37.4186	0	50	75	50	130
2-Butanone	1	29.4387	0	50	59	20	130
1,1,1-Trichloroethane	1	37.3736	0	50	75	50	130
Carbon Tetrachloride	1	36.4686	0	50	73	50	130
Vinyl Acetate	1	31.3002	0	50	63	50	130
Bromodichloromethane	1	32.535	0	50	65	50	130
Methylcyclohexane	1	34.8658	0	50	70	50	130
Dibromomethane	1	36.4936	0	50	73	50	130
1,2-Dichloropropane	1	33.3567	0	50	67	50	130
Trichloroethene	1	28.3944	0	50	57	50	130
Benzene	1	33.1748	0	50	66	50	130
tert-Amyl methyl ether	1	28.6872	0	50	57	50	130
Iso-propylacetate	1	37.9272	0	50	76	50	130
Methyl methacrylate	1	37.4277	0	50	75	50	130
Dibromochloromethane	1	38.0323	0	50	76	50	130
2-Chloroethylvinylether	1	35.7998	0	50	72	50	130
cis-1,3-Dichloropropene	1	40.2917	0	50	81	50	130
trans-1,3-Dichloropropene	1	39.9803	0	50	80	50	130
Ethyl methacrylate	1	40.0629	0	50	80	50	130
1,1,2-Trichloroethane	1	44.1038	0	50	88	50	130
1,2-Dibromoethane	1	41.3371	0	50	83	50	130
1,3-Dichloropropane	1	46.0973	0	50	92	50	130
4-Methyl-2-Pentanone	1	37.722	0	50	75	20	130
2-Hexanone	1	39.8634	0	50	80	20	130
Tetrachloroethene	1	47.2322	0	50	94	50	130
Toluene	1	40.6097	0	50	81	50	130
1,1,1,2-Tetrachloroethane	1	39.9707	0	50	80	50	130
Chlorobenzene	1	44.2151	0	50	88	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64307

n-Butyl acrylate	1	20.3952	0	50	41*	50	130
n-Amyl acetate	1	23.2272	0	50	46*	50	130
Bromoform	1	34.8214	0	50	70	20	130
Ethylbenzene	1	26.5404	0	50	53	50	130
1,1,2,2-Tetrachloroethane	1	27.6131	0	50	55	50	130
Styrene	1	31.6457	0	50	63	50	130
m&p-Xylenes	1	55.3437	0	100	55	50	130
o-Xylene	1	27.0899	0	50	54	50	130
trans-1,4-Dichloro-2-butene	1	29.4915	0	50	59	20	130
1,3-Dichlorobenzene	1	30.6817	0	50	61	50	130
1,4-Dichlorobenzene	1	29.6723	0	50	59	50	130
1,2-Dichlorobenzene	1	29.872	0	50	60	50	130
Isopropylbenzene	1	28.853	0	50	58	50	130
Cyclohexanone	1	153.7055	0	250	61	50	130
Camphene	1	31.1778	0	50	62	50	130
1,2,3-Trichloropropane	1	34.4503	0	50	69	50	130
2-Chlorotoluene	1	33.5518	0	50	67	50	130
p-Ethyltoluene	1	30.0788	0	50	60	50	130
4-Chlorotoluene	1	35.8599	0	50	72	50	130
n-Propylbenzene	1	31.107	0	50	62	50	130
Bromobenzene	1	36.0617	0	50	72	50	130
1,3,5-Trimethylbenzene	1	27.9892	0	50	56	50	130
Butyl methacrylate	1	30.3549	0	50	61	50	130
t-Butylbenzene	1	30.664	0	50	61	50	130
1,2,4-Trimethylbenzene	1	26.1812	0	50	52	50	130
sec-Butylbenzene	1	26.3274	0	50	53	50	130
4-Isopropyltoluene	1	28.8711	0	50	58	50	130
n-Butylbenzene	1	29.2496	0	50	58	50	130
p-Diethylbenzene	1	30.5	0	50	61	50	130
1,2,4,5-Tetramethylbenzene	1	28.6909	0	50	57	50	130
1,2-Dibromo-3-Chloropropane	1	28.5557	0	50	57	50	130
Camphor	1	407.6238	0	500	82	50	130
Hexachlorobutadiene	1	24.6675	0	50	49*	50	130
1,2,4-Trichlorobenzene	1	25.6733	0	50	51	50	130
1,2,3-Trichlorobenzene	1	23.2643	0	50	47*	50	130
Naphthalene	1	26.5186	0	50	53	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: MBS64307

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M59258.D	AD00091-024(MSD)	9/29/2017 9:26:00 AM
Duplicate(If applicable):	6M59257.D	AD00091-024(MS)	9/29/2017 9:09:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	53.6212	39.8635	29	30
Dichlorodifluoromethane	1	28.9838	28.0765	3.2	30
Chloromethane	1	40.4329	38.262	5.5	30
Bromomethane	1	36.0111	36.6432	1.7	30
Vinyl Chloride	1	39.9415	23.5948	51*	40
Chloroethane	1	38.6589	39.7443	2.8	30
Trichlorofluoromethane	1	52.2923	51.533	1.5	30
Ethyl ether	1	35.0986	33.119	5.8	30
Furan	1	36.181	23.7085	42*	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	43.0554	42.5205	1.3	30
Methylene Chloride	1	37.3463	35.7875	4.3	30
Acrolein	1	91.0123	143.4806	45*	30
Acrylonitrile	1	32.1245	35.1931	9.1	30
Iodomethane	1	41.4824	23.0118	57*	30
Acetone	1	275.4014	242.5282	13	30
Carbon Disulfide	1	53.4698	51.9508	2.9	30
t-Butyl Alcohol	1	160.889	171.1774	6.2	30
n-Hexane	1	35.5929	35.3117	0.79	30
Di-isopropyl-ether	1	34.7625	37.3683	7.2	30
1,1-Dichloroethene	1	43.7102	28.6575	42*	40
Methyl Acetate	1	32.7766	37.8856	14	30
Methyl-t-butyl ether	1	31.4797	32.7981	4.1	30
1,1-Dichloroethane	1	38.4997	40.3315	4.6	40
trans-1,2-Dichloroethene	1	39.1524	40.6148	3.7	30
Ethyl-t-butyl ether	1	28.8234	31.8889	10	30
cis-1,2-Dichloroethene	1	37.6711	40.2079	6.5	30
Bromochloromethane	1	28.3662	28.7757	1.4	30
2,2-Dichloropropane	1	34.4102	40.0924	15	30
Ethyl acetate	1	37.7287	38.2165	1.3	30
1,4-Dioxane	1	1891.192	2254.419	18	30
1,1-Dichloropropene	1	39.9262	41.0603	2.8	30
Chloroform	1	33.3975	36.4694	8.8	40
Cyclohexane	1	30.9365	34.9404	12	30
1,2-Dichloroethane	1	37.4186	41.4891	10	40
2-Butanone	1	29.4387	42.0447	35	40
1,1,1-Trichloroethane	1	37.3736	40.9569	9.1	30
Carbon Tetrachloride	1	36.4686	36.4267	0.11	40
Vinyl Acetate	1	31.3002	29.7231	5.2	30
Bromodichloromethane	1	32.535	34.544	6	30
Methylcyclohexane	1	34.8658	35.2553	1.1	30
Dibromomethane	1	36.4936	41.5451	13	30
1,2-Dichloropropane	1	33.3567	34.4827	3.3	30
Trichloroethene	1	28.3944	25.9108	9.1	40
Benzene	1	33.1748	32.5597	1.9	40
tert-Amyl methyl ether	1	28.6872	30.1705	5	30
Iso-propylacetate	1	37.9272	43.3083	13	30
Methyl methacrylate	1	37.4277	49.3727	28	30
Dibromochloromethane	1	38.0323	45.803	19	30
2-Chloroethylvinylether	1	35.7998	39.5237	9.9	30
cis-1,3-Dichloropropene	1	40.2917	48.503	18	30
trans-1,3-Dichloropropene	1	39.9803	47.0076	16	30
Ethyl methacrylate	1	40.0629	45.1695	12	30
1,1,2-Trichloroethane	1	44.1038	54.801	22	30
1,2-Dibromoethane	1	41.3371	45.668	10	30
1,3-Dichloropropane	1	46.0973	54.2007	16	30
4-Methyl-2-Pentanone	1	37.722	45.1533	18	30
2-Hexanone	1	39.8634	49.1212	21	30
Tetrachloroethene	1	47.2322	55.7929	17	40
Toluene	1	40.6097	47.8545	16	40
1,1,1,2-Tetrachloroethane	1	39.9707	52.9831	28	30
Chlorobenzene	1	44.2151	48.1178	8.5	40
n-Butyl acrylate	1	20.3952	23.586	15	30
n-Amyl acetate	1	23.2272	29.9631	25	30

Form3
RPD Data Laboratory Limits
QC Batch: MBS64307

Bromoform	1	34.8214	35.2066	1.1	30
Ethylbenzene	1	26.5404	30.0534	12	30
1,1,2,2-Tetrachloroethane	1	27.6131	31.8168	14	30
Styrene	1	31.6457	34.5728	8.8	30
m&p-Xylenes	1	55.3437	59.6228	7.4	30
o-Xylene	1	27.0899	28.8077	6.1	30
trans-1,4-Dichloro-2-butene	1	29.4915	32.54	9.8	30
1,3-Dichlorobenzene	1	30.6817	31.4532	2.5	30
1,4-Dichlorobenzene	1	29.6723	32.1446	8	40
1,2-Dichlorobenzene	1	29.872	32.6726	9	40
Isopropylbenzene	1	28.853	31.0477	7.3	30
Cyclohexanone	1	153.7055	138.9404	10	30
Camphene	1	31.1778	34.5305	10	30
1,2,3-Trichloropropane	1	34.4503	37.4488	8.3	30
2-Chlorotoluene	1	33.5518	39.8861	17	30
p-Ethyltoluene	1	30.0788	32.4194	7.5	30
4-Chlorotoluene	1	35.8599	37.2774	3.9	30
n-Propylbenzene	1	31.107	33.5616	7.6	40
Bromobenzene	1	36.0617	37.7389	4.5	30
1,3,5-Trimethylbenzene	1	27.9892	29.9986	6.9	30
Butyl methacrylate	1	30.3549	32.1586	5.8	30
t-Butylbenzene	1	30.664	31.3335	2.2	30
1,2,4-Trimethylbenzene	1	26.1812	29.3475	11	30
sec-Butylbenzene	1	26.3274	29.1259	10	40
4-Isopropyltoluene	1	28.8711	30.9337	6.9	30
n-Butylbenzene	1	29.2496	31.3014	6.8	30
p-Diethylbenzene	1	30.5	33.1163	8.2	30
1,2,4,5-Tetramethylbenzene	1	28.6909	30.4027	5.8	30
1,2-Dibromo-3-Chloropropane	1	28.5557	31.0564	8.4	30
Camphor	1	407.6238	478.3473	16	30
Hexachlorobutadiene	1	24.6675	27.3384	10	30
1,2,4-Trichlorobenzene	1	25.6733	24.5874	4.3	30
1,2,3-Trichlorobenzene	1	23.2643	22.9994	1.1	30
Naphthalene	1	26.5186	25.0174	5.8	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 6M59251.D
Matrix: Soil

Blank Analysis Date: 09/29/17 07:22
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260C

Sample Number	Data File	Analysis Date
AD00298-001	6M59253.D	09/29/17 08:03
AD00091-024	6M59277.D	09/29/17 14:42
AD00091-024(MSD	6M59258.D	09/29/17 09:26
AD00091-024(MS)	6M59257.D	09/29/17 09:09
MBS64307	6M59256.D	09/29/17 08:53

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6

Data File: 6M58197.D
Analysis Date: 09/07/17 05:28
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.059 to 4.069 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	23.5	113196	PASS
75	95	30	60	54.2	261536	PASS
95	95	100	100	100.0	482336	PASS
96	95	5	9	6.8	32948	PASS
173	174	0.00	2	1.3	4869	PASS
174	95	50	100	79.1	381472	PASS
175	174	5	9	7.0	26632	PASS
176	174	95	101	97.7	372576	PASS
177	176	5	9	5.9	21908	PASS

Data File	Sample Number	Analysis Date:
6M58200.D	CAL @ 0.5 PPB	09/07/17 06:11
6M58201.D	CAL @ 1 PPB	09/07/17 06:28
6M58202.D	CAL @ 2 PPB	09/07/17 06:45
6M58203.D	CAL @ 5 PPB	09/07/17 07:01
6M58204.D	CAL @ 20 PPB	09/07/17 07:18
6M58206.D	CAL @ 50 PPB	09/07/17 07:51
6M58208.D	CAL @ 500 PPB	09/07/17 08:25
6M58210.D	CAL @ 250 PPB	09/07/17 08:58
6M58212.D	CAL @ 100 PPB	09/07/17 09:31
6M58216.D	ICV	09/07/17 10:38

Data Path : G:\GcMsData\2017\GCMS_6\Data\09-07-17\
Data File : 6M58197.D
Acq On : 7 Sep 2017 5:28
Operator : SG
Sample : BFB TUNE
Misc : S,5g
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2017\GCMS_6\MethodQt\6M_S0724.M
Title : @GCMS_6,ug,624,8260
Last Update : Mon Jul 24 14:56:44 2017

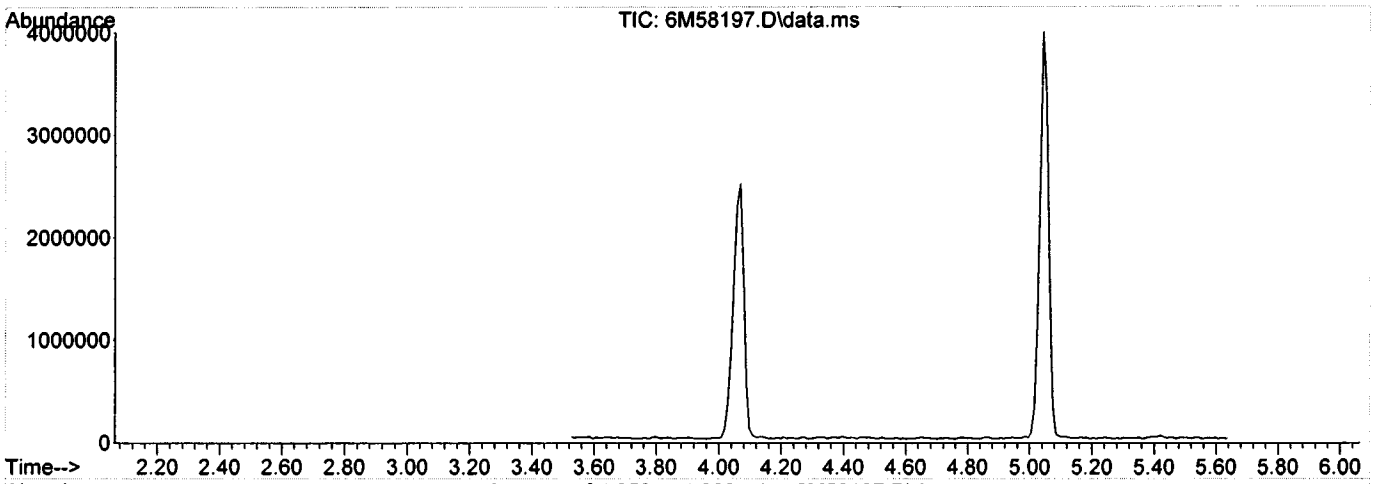

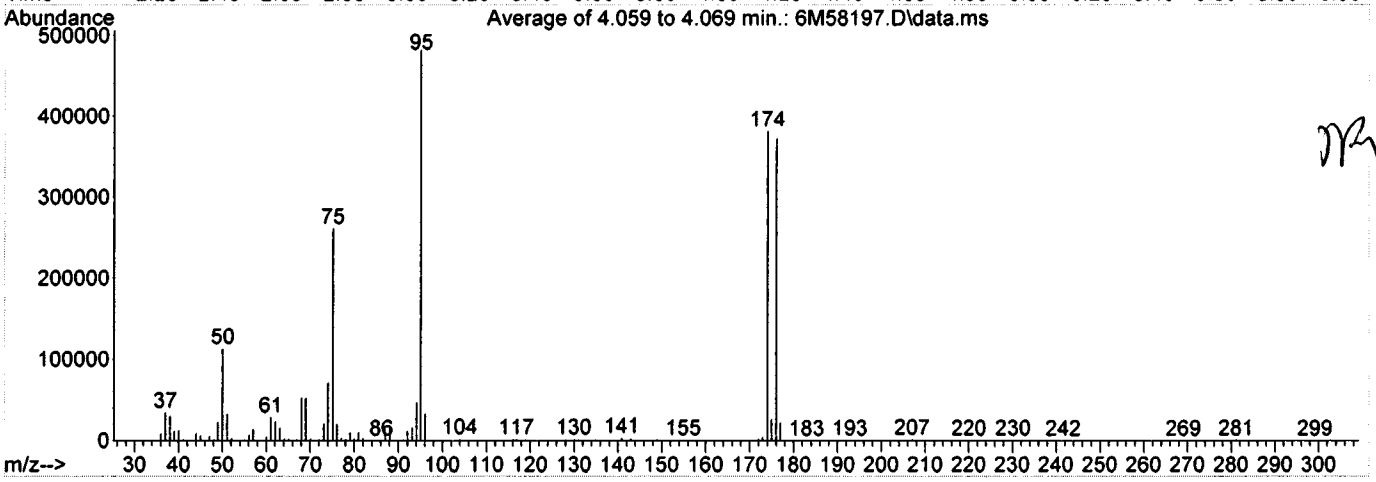

Spectrum Information: Average of 4.059 to 4.069 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	113196	PASS
75	95	30	60	54.2	261536	PASS
95	95	100	100	100.0	482336	PASS
96	95	5	9	6.8	32948	PASS
173	174	0.00	2	1.3	4869	PASS
174	95	50	100	79.1	381472	PASS
175	174	5	9	7.0	26632	PASS
176	174	95	101	97.7	372576	PASS
177	176	5	9	5.9	21908	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6

Data File: 6M59245.D
Analysis Date: 09/29/17 05:45
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.032 to 4.052 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	22.8	115475	PASS
75	95	30	60	52.6	267029	PASS
95	95	100	100	100.0	507520	PASS
96	95	5	9	7.3	36965	PASS
173	174	0.00	2	0.3	1184	PASS
174	95	50	100	87.5	444096	PASS
175	174	5	9	7.3	32605	PASS
176	174	95	101	96.1	426773	PASS
177	176	5	9	7.0	29712	PASS

Data File	Sample Number	Analysis Date:
6M59246.D	BLK	09/29/17 05:54
6M59247.D	50 PPB	09/29/17 06:15
6M59248.D	CAL @ 50 PPB	09/29/17 06:32
6M59249.D	BLK	09/29/17 06:48
6M59250.D	BLK	09/29/17 07:05
6M59251.D	DAILY BLANK	09/29/17 07:22
6M59252.D	BLK	09/29/17 07:46
6M59253.D	AD00298-001	09/29/17 08:03
6M59254.D	AD00289-008	09/29/17 08:19
6M59255.D	AD00289-007	09/29/17 08:36
6M59256.D	MBS64307	09/29/17 08:53
6M59257.D	AD00091-024(MS)	09/29/17 09:09
6M59258.D	AD00091-024(MSD	09/29/17 09:26
6M59259.D	BLK	09/29/17 09:43
6M59260.D	AD00296-011	09/29/17 09:59
6M59261.D	AD00289-001	09/29/17 10:16
6M59262.D	AD00289-002	09/29/17 10:32
6M59263.D	AD00289-003	09/29/17 10:49
6M59264.D	AD00289-004	09/29/17 11:06
6M59265.D	AD00289-005	09/29/17 11:22
6M59266.D	AD00289-006	09/29/17 11:39
6M59267.D	AD00289-009	09/29/17 11:56
6M59268.D	AD00290-001	09/29/17 12:12
6M59269.D	AD00290-003	09/29/17 12:29
6M59270.D	AD00290-005	09/29/17 12:46
6M59271.D	AD00290-007	09/29/17 13:02
6M59272.D	AD00290-009	09/29/17 13:19
6M59273.D	AD00290-013	09/29/17 13:36
6M59274.D	AD00290-011	09/29/17 13:52
6M59275.D	AD00316-023	09/29/17 14:09
6M59276.D	AD00316-025	09/29/17 14:26
6M59277.D	AD00091-024	09/29/17 14:42

Data Path : G:\GcMsData\2017\GCMS_6\Data\09-29-17\
Data File : 6M59245.D
Acq On : 29 Sep 2017 5:45
Operator : SG
Sample : BFB TUNE
Misc : S,5g
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2017\GCMS_6\MethodQt\6M_S0907.M
Title : @GCMS_6,ug,624,8260
Last Update : Thu Sep 07 09:58:16 2017

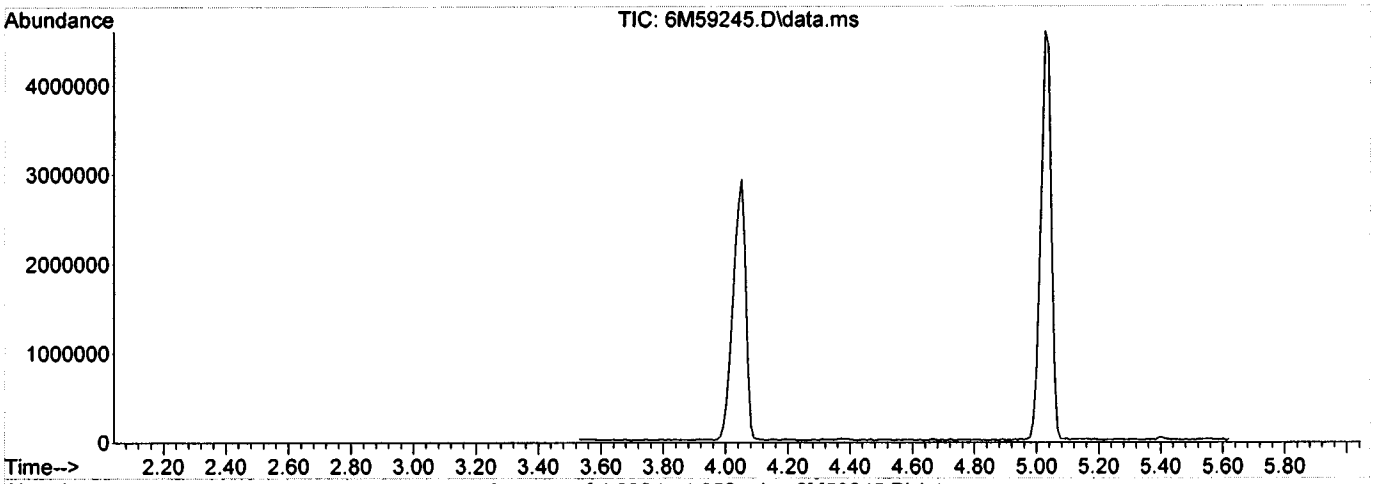

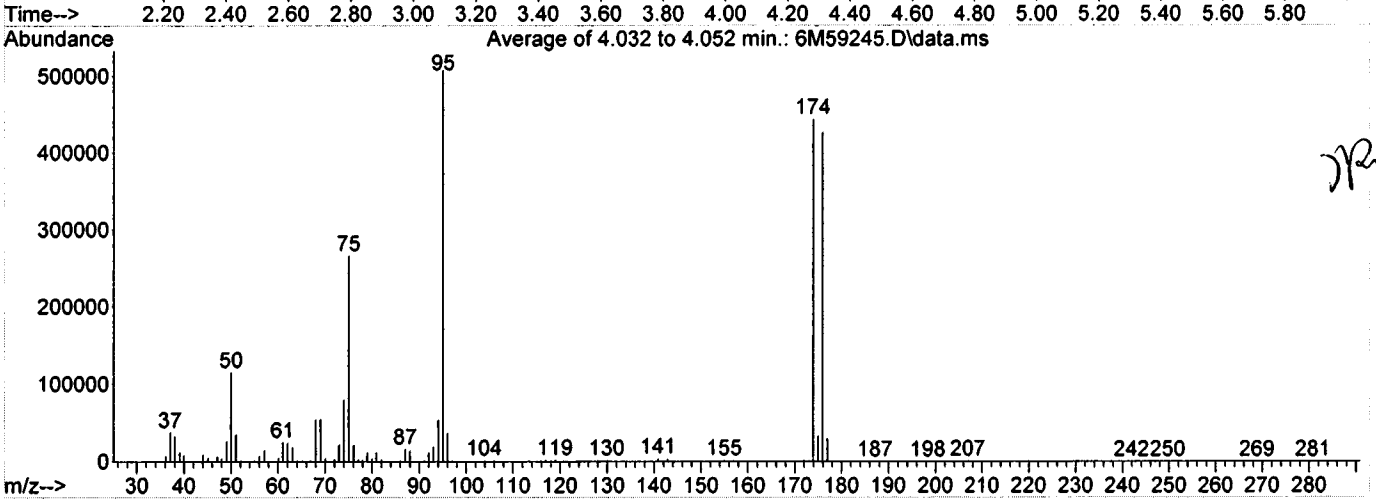

Spectrum Information: Average of 4.032 to 4.052 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.8	115475	PASS
75	95	30	60	52.6	267029	PASS
95	95	100	100	100.0	507520	PASS
96	95	5	9	7.3	36965	PASS
173	174	0.00	2	0.3	1184	PASS
174	95	50	100	87.5	444096	PASS
175	174	5	9	7.3	32605	PASS
176	174	95	101	96.1	426773	PASS
177	176	5	9	7.0	29712	PASS

7092827 0038

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M58204.D	CAL @ 20 PPB	09/07/17 07:18	2	6M58203.D	CAL @ 5 PPB	09/07/17 07:01
3	6M58202.D	CAL @ 2 PPB	09/07/17 06:45	4	6M58206.D	CAL @ 50 PPB	09/07/17 07:51
5	6M58212.D	CAL @ 100 PPB	09/07/17 09:31	6	6M58210.D	CAL @ 250 PPB	09/07/17 08:58
7	6M58208.D	CAL @ 500 PPB	09/07/17 08:25	8	6M58201.D	CAL @ 1 PPB	09/07/17 06:28
9	6M58200.D	CAL @ 0.5 PPB	09/07/17 06:11				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.9855	1.2130	1.4696	0.9316	1.3288	1.1575	1.0733	----	----	1.17	1.45	0.996	0.999	16	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dichlorodifluorometha	1	0	Avg	0.6286	0.7638	0.7601	0.6418	0.9041	0.7814	0.7223	----	----	0.743	1.44	0.996	0.999	13	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloromethane	1	0	Avg	0.5564	0.6122	0.4689	0.5251	0.7607	0.6574	0.6127	----	----	0.599	1.61	0.996	0.998	16	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromomethane	1	0	Avg	0.3476	0.3865	0.4270	0.3155	0.4289	0.3815	0.3573	----	----	0.378	1.98	0.997	0.999	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Chloride	1	0	Avg	0.4862	0.4896	0.4890	0.4606	0.6501	0.5525	0.5186	----	----	0.521	1.69	0.996	0.998	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroethane	1	0	Avg	0.3451	0.4040	0.4811	0.3144	0.4340	0.3708	0.3533	----	----	0.386	2.06	0.997	0.999	15	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichlorofluoromethan	1	0	Avg	0.4718	0.6437	0.6954	0.4284	0.5396	0.5360	0.5101	----	----	0.546	2.28	0.999	0.999	17	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl ether	1	0	Avg	0.1905	0.2165	0.2817	0.1791	0.2514	0.2206	0.2192	----	----	0.223	2.49	0.999	0.999	16	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Furan	1	0	Avg	1.1019	0.8798	1.4430	1.0667	1.4483	1.2551	1.2446	----	----	1.21	2.54	0.998	0.999	17	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.5356	0.6290	0.7726	0.5218	0.6954	0.6153	0.5492	----	----	0.617	2.70	0.995	0.999	15	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methylene Chloride	1	0	Avg	0.3826	0.4081	0.4676	0.3354	0.4076	0.3748	0.3629	----	----	0.391	3.09	0.999	1.00	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acrolein	1	0	Qua	0.0115	0.0140	0.0169	0.0177	0.0219	0.0191	0.0201	----	----	0.0174	2.62	0.999	0.999	21		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Acrylonitrile	1	0	Avg	0.0424	0.0447	0.0489	0.0362	0.0480	0.0422	0.0439	----	----	0.0438	3.29	0.999	0.999	9.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iodomethane	1	0	Avg	0.5496	0.5746	0.4021	0.5431	0.7086	0.6458	0.6293	----	----	0.579	2.83	0.999	0.999	17		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acetone	1	0	Avg	0.0319	0.0326	0.0475	0.0352	0.0489	0.0397	0.0411	----	----	0.0396	2.73	0.998	0.998	17	0.10 a	100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Carbon Disulfide	1	0	Avg	1.2081	1.3518	0.9110	1.1995	1.5693	1.4637	1.3894	----	----	1.30	2.89	0.998	0.999	17	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butyl Alcohol	1	0	Avg	0.0085	0.0083	0.0104	0.0069	0.0081	0.0068	0.0077	----	----	0.00815	3.14	0.996	0.998	15		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
n-Hexane	1	0	Avg	0.7547	0.7978	0.8706	0.7509	1.0524	0.9545	0.8709	----	----	0.865	3.53	0.996	0.999	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Di-isopropyl-ether	1	0	Avg	1.2050	1.2505	1.4864	1.2252	1.5430	1.4212	1.3863	----	----	1.36	3.69	0.999	0.999	9.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1-Dichloroethene	1	0	Avg	0.9675	0.9759	0.8666	0.8869	1.2386	1.0937	0.9824	----	----	1.00	2.70	0.995	0.999	13	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl Acetate	1	0	Qua	0.2013	0.2143	0.3120	0.1554	0.1918	0.1593	0.1635	----	----	0.200	2.99	0.998	0.998	27	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl-t-butyl ether	1	0	Avg	0.4427	0.5302	0.5099	0.4308	0.5229	0.4887	0.4964	0.6765	----	0.512	3.30	1.00	1.00	15	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethane	1	0	Avg	0.9166	0.8143	0.9638	0.8640	1.0577	0.9820	0.9225	----	----	0.932	3.66	0.998	1.00	8.6	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,2-Dichloroethe	1	0	Avg	0.4241	0.5329	0.6859	0.4795	0.5879	0.5497	0.5064	----	----	0.538	3.31	0.997	0.999	16	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl-t-butyl ether	1	0	Avg	0.8647	0.8741	0.9587	0.8381	0.9999	0.9523	0.9698	----	----	0.923	3.96	1.00	1.00	6.7	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,2-Dichloroethene	1	0	Avg	0.8733	0.9239	1.0941	0.8172	1.0170	0.9600	0.9019	----	----	0.941	4.08	0.998	1.00	9.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromochloromethane	1	0	Avg	0.3751	0.2790	0.3042	0.3484	0.3814	0.3725	0.3653	----	----	0.347	4.24	1.00	1.00	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2,2-Dichloropropane	1	0	Avg	0.7768	0.8940	0.9527	0.7439	0.9413	0.9020	0.8590	----	----	0.867	4.09	0.999	0.999	9.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl acetate	1	0	Avg	0.1347	0.1732	0.1381	0.1401	0.1525	0.1334	0.1488	----	----	0.146	4.11	0.997	0.999	9.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dioxane	1	0	Avg	0.0013	0.0014	0.0016	0.0010	0.0013	0.0010	0.0013	----	----	0.00132	5.14	0.989	0.996	16		1000.	250.0	100.0	2500.	5000.	1250	2500		
1,1-Dichloropropene	1	0	Avg	0.8568	0.9170	0.9840	0.8681	0.9979	0.9242	0.8447	----	----	0.913	4.50	0.997	1.00	6.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroform	1	0	Avg	0.9441	1.0540	1.2008	0.8363	0.9368	0.9110	0.8767	----	----	0.966	4.28	0.999	1.00	13	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromofluoromethan	1	0	Avg	0.2588	0.2585	0.2724	0.2334	0.2439	0.2284	0.2295	0.2458	0.2599	0.248	4.38	-1	-1	6.3		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	1.0396	1.1238	1.3353	1.0782	1.3387	1.2673	1.1670	----	----	1.19	4.44	0.997	0.999	10	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloroethane-d4	1	0	Avg	0.1158	0.1166	0.1216	0.1123	0.1091	0.1087	0.1047	0.1233	0.1175	0.114	4.58	-1	-1	5.4		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.5499	0.6325	0.7422	0.4895	0.5216	0.4949	0.4650	----	----	0.557	4.62	0.999	1.00	18	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Butanone	1	0	Avg	0.0978	0.0980	0.0659	0.0651	0.0820	0.0606	0.0712	----	----	0.0773	4.09	0.992	0.995	20	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,1-Trichloroethane	1	0	Avg	0.9381	1.0202	1.2661	0.9165	1.0844	1.0273	0.9548	----	----	1.03	4.40	0.998	1.00	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Carbon Tetrachloride	1	0	Avg	0.8502	0.9424	1.1111	0.8444	0.9511	0.8579	0.8079	----	----	0.909	4.50	0.998	1.00	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Acetate	1	0	Avg	0.1647	0.1788	0.2381	0.1603	0.1882	0.1694	0.1729	----	----	0.182	3.30	0.999	0.999	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromodichloromethan	1	0	Avg	0.5366	0.6522	0.6420	0.5029	0.5541	0.5278	0.5411	----	----	0.565	5.21	1.00	1.00	10	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 12.5
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

7092827 0039

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M58204.D	CAL @ 20 PPB	09/07/17 07:18	2	6M58203.D	CAL @ 5 PPB	09/07/17 07:01
3	6M58202.D	CAL @ 2 PPB	09/07/17 06:45	4	6M58206.D	CAL @ 50 PPB	09/07/17 07:51
5	6M58212.D	CAL @ 100 PPB	09/07/17 09:31	6	6M58210.D	CAL @ 250 PPB	09/07/17 08:58
7	6M58208.D	CAL @ 500 PPB	09/07/17 08:25	8	6M58201.D	CAL @ 1 PPB	09/07/17 06:28
9	6M58200.D	CAL @ 0.5 PPB	09/07/17 06:11				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.8900	1.0053	0.9958	0.9252	1.1791	1.0555	0.9620	-----	-----	1.00	5.06	0.996	0.999	9.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromomethane	1	0	Avg	0.1751	0.1846	0.2297	0.1568	0.1761	0.1698	0.1619	-----	-----	0.179	5.15	0.999	1.00	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloropropane	1	0	Avg	0.4115	0.5062	0.5648	0.3877	0.4342	0.4145	0.3967	-----	-----	0.445	5.08	0.999	1.00	15	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichloroethene	1	0	Avg	0.5428	0.6586	0.7625	0.5201	0.6066	0.5759	0.5304	-----	-----	0.600	4.95	0.998	1.00	14	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Benzene	1	0	Avg	1.7013	1.9042	2.2314	1.6574	1.9156	1.8400	1.7344	2.5945	-----	1.95	4.62	0.999	1.00	16	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
tert-Amyl methyl ether	1	0	Avg	0.5402	0.5701	0.6738	0.4908	0.5584	0.5975	0.5699	-----	-----	0.572	4.65	0.999	0.999	9.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iso-propylacetate	1	0	Avg	0.6358	0.6650	0.7267	0.5466	0.5990	0.6259	0.6599	-----	-----	0.637	4.62	0.999	1.00	8.9	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl methacrylate	1	0	Avg	0.3443	0.3178	0.4920	0.2886	0.3695	0.3602	0.3324	-----	-----	0.358	5.11	0.998	0.999	18	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromochloromethan	1	0	Avg	0.4903	0.5270	0.5493	0.4688	0.4920	0.5135	0.5154	-----	-----	0.508	6.03	1.00	1.00	5.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chloroethylvinylethe	1	0	Avg	0.1428	0.1677	0.2082	0.1384	0.1476	0.1576	0.1679	-----	-----	0.162	5.35	0.999	1.00	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,3-Dichloropropen	1	0	Avg	0.8414	0.8550	0.9530	0.8275	0.9438	0.9880	1.0012	-----	-----	0.916	5.44	1.00	1.00	7.9	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,3-Dichloroprop	1	0	Avg	0.5790	0.6140	0.7303	0.5779	0.6622	0.6932	0.7204	-----	-----	0.654	5.71	0.999	1.00	9.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl methacrylate	1	0	Avg	0.3924	0.4618	0.4379	0.4159	0.4520	0.4559	0.4719	-----	-----	0.441	5.73	1.00	1.00	6.4	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloroethane	1	0	Avg	0.3432	0.3955	0.4822	0.3241	0.3246	0.3287	0.3198	-----	-----	0.360	5.82	1.00	1.00	17	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromoethane	1	0	Qua	0.3125	0.3546	0.4647	0.3116	0.3125	0.3118	0.3137	0.7011	-----	0.385	6.10	1.00	1.00	36	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.6469	0.7026	0.9231	0.5957	0.6307	0.6033	0.5751	-----	-----	0.668	5.91	0.999	1.00	18		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Methyl-2-Pentanone	1	0	Avg	0.2497	0.2569	0.3432	0.2482	0.2409	0.2505	0.2652	-----	-----	0.265	5.50	0.999	1.00	13	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Hexanone	1	0	Avg	0.1691	0.1803	0.1913	0.1496	0.1597	0.1567	0.1720	-----	-----	0.168	5.92	0.998	1.00	8.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Tetrachloroethene	1	0	Avg	0.8468	0.9224	1.1001	0.8383	0.9308	0.9632	0.7954	-----	-----	0.914	5.90	0.990	0.999	11	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Toluene-d8	1	0	Avg	1.6645	1.5936	1.5853	1.6589	1.6482	1.5838	1.6599	1.6328	1.6319	1.63	5.58	-1	-1	2.0		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Qua	1.8397	1.9737	2.5301	1.8715	2.0815	2.0415	1.8871	3.4195	-----	2.21	5.62	0.998	1.00	24	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.5935	0.6554	0.6883	0.5724	0.5887	0.5830	0.5119	-----	-----	0.599	6.38	0.996	1.00	9.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chlorobenzene	1	0	Avg	1.8482	1.9392	2.3874	1.7659	1.9481	1.9023	1.7687	-----	-----	1.94	6.35	0.998	1.00	11	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Butyl acrylate	1	0	Avg	0.9928	1.3316	1.2073	1.1633	1.3924	1.7152	1.6248	-----	-----	1.35	6.59	0.998	0.998	19	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Amyl acetate	1	0	Avg	0.9551	0.8607	1.1576	1.0239	1.1747	1.3319	1.2847	-----	-----	1.11	6.70	0.999	0.999	16	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromoform	1	0	Avg	0.4624	0.4880	0.5808	0.4943	0.5160	0.6843	0.6049	-----	-----	0.547	6.78	0.994	0.996	14	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethylbenzene	1	0	Avg	1.9349	2.0525	2.5132	1.9599	2.4383	2.7262	1.8905	2.9938	-----	2.31	6.39	0.963	0.993	18	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.7210	0.8888	1.1081	0.7034	0.7127	0.7650	0.6570	-----	-----	0.794	7.00	0.994	0.999	20	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromofluorobenzene	1	0	Avg	0.8713	0.8126	0.8598	0.8784	0.8513	1.0214	0.9570	0.8229	0.8379	0.879	6.94	-1	-1	7.7		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	3.2097	3.3073	3.4640	3.4512	3.9728	4.4071	3.5374	-----	-----	3.62	6.66	0.986	0.997	12	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
m&p-Xylenes	1	0	Avg	2.5808	2.6654	2.8194	2.6178	3.0702	3.3541	2.5448	4.2092	3.8700	3.08	6.44	0.981	0.996	20	0.10	40.00	10.00	4.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	2.2947	2.3327	2.5953	2.2911	2.6847	2.9618	2.3058	3.7432	-----	2.65	6.66	0.983	0.997	19	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	1.0968	1.1082	1.1584	0.9954	1.1921	1.2485	1.0246	-----	-----	1.12	7.00	0.989	0.998	8.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3-Dichlorobenzene	1	0	Avg	2.8489	3.1830	3.7342	2.8214	3.0918	2.9791	2.7711	-----	-----	3.06	7.54	0.998	1.00	11	0.60	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dichlorobenzene	1	0	Avg	2.6564	3.0420	3.7248	2.6183	2.8438	2.7935	2.6359	-----	-----	2.90	7.59	0.999	1.00	14	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichlorobenzene	1	0	Avg	2.1727	2.4036	2.3665	2.1265	2.2590	2.2241	2.1919	-----	-----	2.25	7.81	1.00	1.00	4.5	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Isopropylbenzene	1	0	Avg	7.5749	7.8566	8.6469	7.9080	9.3649	10.503	7.8148	12.287	-----	8.99	6.84	0.976	0.995	18	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.0906	0.1181	0.1366	0.0936	0.1150	0.1218	0.0955	-----	-----	0.110	7.00	0.983	0.997	16		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Camphene	1	0	Avg	4.2415	4.2962	4.8482	4.4280	5.4963	5.9631	4.4777	-----	-----	4.82	7.00	0.976	0.996	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichloropropane	1	0	Avg	0.9349	0.9589	1.3388	0.9421	0.9915	1.1117	0.9781	-----	-----	1.04	7.03	0.996	0.998	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chlorotoluene	1	0	Avg	5.7267	5.8593	6.3699	5.2714	6.0729	5.7292	5.1714	-----	-----	5.74	7.13	0.997	1.00	7.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 12.5
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

7092827 0040

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M58204.D	CAL @ 20 PPB	09/07/17 07:18	2	6M58203.D	CAL @ 5 PPB	09/07/17 07:01
3	6M58202.D	CAL @ 2 PPB	09/07/17 06:45	4	6M58206.D	CAL @ 50 PPB	09/07/17 07:51
5	6M58212.D	CAL @ 100 PPB	09/07/17 09:31	6	6M58210.D	CAL @ 250 PPB	09/07/17 08:58
7	6M58208.D	CAL @ 500 PPB	09/07/17 08:25	8	6M58201.D	CAL @ 1 PPB	09/07/17 06:28
9	6M58200.D	CAL @ 0.5 PPB	09/07/17 06:11				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	8.3057	8.4325	9.2306	8.3989	9.6699	9.2599	8.0542	-----	-----	8.76	7.12	0.994	1.00	7.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Chlorotoluene	1	0	Avg	4.6568	5.4643	5.6493	5.1257	5.4221	5.2224	5.1605	-----	-----	5.24	7.19	1.00	1.00	6.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Propylbenzene	1	0	Avg	9.6266	10.020	11.144	9.8545	11.709	11.700	8.7871	13.364	-----	10.8	7.06	0.977	0.998	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	3.2378	3.5793	3.7149	3.1082	3.4030	3.7082	3.2631	-----	-----	3.43	7.04	0.996	0.999	7.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3,5-Trimethylbenzen	1	0	Avg	6.1813	6.6712	7.1546	6.4763	7.1088	6.5669	5.8401	9.1803	-----	6.90	7.15	0.996	1.00	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	1.8301	1.6302	2.0508	1.8511	2.0833	2.0762	2.0771	-----	-----	1.94	7.16	1.00	1.00	9.1	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butylbenzene	1	0	Avg	5.5780	5.9066	6.4134	6.0816	7.0553	6.6183	6.0290	8.4928	-----	6.52	7.34	0.997	1.00	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	6.0862	6.4055	6.5033	6.2198	7.0171	6.6303	6.1509	9.3944	-----	6.80	7.36	0.998	1.00	16		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	8.2784	8.4703	8.7845	8.6620	10.339	9.6921	8.0878	10.845	-----	9.15	7.45	0.990	0.999	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	6.3764	6.5063	6.8248	6.7663	7.7643	7.2045	6.4565	8.1324	-----	7.00	7.52	0.996	1.00	9.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	8.5859	9.2774	9.3854	9.1061	10.276	9.6351	8.4520	11.412	-----	9.52	7.75	0.995	1.00	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	3.9941	3.8505	3.9646	4.3071	4.8018	4.5481	4.0465	-----	-----	4.22	7.74	0.996	1.00	8.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4,5-Tetramethylbe	1	0	Avg	4.1160	4.3912	4.5243	4.6022	5.1245	5.2238	4.9187	-----	-----	4.70	8.19	0.999	1.00	8.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromo-3-Chloro	1	0	Avg	0.0807	0.0704	0.0983	0.0763	0.0700	0.0854	0.0944	-----	-----	0.0822	8.25	0.996	1.00	14	0.05	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Camphor	1	0	Avg	0.0159	0.0172	0.0171	0.0142	0.0180	0.0191	0.0219	-----	-----	0.0177	8.67	0.996	1.00	14		200.0	50.00	20.00	500.0	1000.	2500.	5000.		
Hexachlorobutadiene	1	0	Avg	1.3338	1.5418	2.2860	1.4181	1.6495	1.6728	1.5093	-----	-----	1.63	8.81	0.997	0.999	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4-Trichlorobenzen	1	0	Avg	1.1332	1.0844	1.3321	1.1534	1.2257	1.2600	1.2406	-----	-----	1.20	8.72	1.00	1.00	7.1	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichlorobenzen	1	0	Avg	0.7929	0.9783	0.9256	0.7811	0.8138	0.8272	0.8253	-----	-----	0.849	9.02	1.00	1.00	8.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Naphthalene	1	0	Avg	0.8774	1.0627	1.1434	0.9209	1.0636	1.0073	1.0664	1.1192	-----	1.03	8.88	0.999	1.00	9.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 12.5
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 6M59248.D **Instrument:** GCMS 6

Cont Calibration Date/Time 9/29/2017 6:32:00 A Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	4.75	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.43	30.51	50	20	0.1	1.166	0.711	38.97	C1
Dichlorodifluoromethane	1	0		1.42	41.32	50	20	0.1	0.743	0.614	17.36	
Chloromethane	1	0		1.58	56.23	50	20	0.1	0.599	0.674	12.46	
Bromomethane	1	0		1.96	54.91	50	20	0.1	0.378	0.415	9.81	
Vinyl Chloride	1	0		1.68	53.91	50	20	0.1	0.521	0.562	7.83	
Chloroethane	1	0		2.04	56.64	50	20	0.1	0.386	0.437	13.28	
Trichlorofluoromethane	1	0		2.26	64.31	50	20	0.1	0.546	0.703	28.61	C1
Ethyl ether	1	0		2.49	50.05	50	20	0.5	0.223	0.223	0.09	
Furan	1	0		2.52	54.51	50	20	0.5	1.206	1.314	9.01	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.67	57.31	50	20	0.1	0.617	0.707	14.62	
Methylene Chloride	1	0		3.07	51.71	50	20	0.1	0.391	0.405	3.43	
Acrolein	1	0		2.60	237.31	250	20		0.017	0.018	5.08	
Acrylonitrile	1	0		3.28	52.64	50	20		0.044	0.046	5.27	
Iodomethane	1	0		2.81	53.49	50	20		0.579	0.620	6.99	
Acetone	1	0		2.72	242.78	250	20	0.1	0.040	0.038	2.89	
Carbon Disulfide	1	0		2.87	57.69	50	20	0.1	1.299	1.499	15.39	
t-Butyl Alcohol	1	0		3.12	211.61	250	20		0.008	0.007	15.36	
n-Hexane	1	0		3.51	54.39	50	20		0.865	0.940	8.77	
Di-isopropyl-ether	1	0		3.67	54.23	50	20		1.360	1.475	8.45	
1,1-Dichloroethene	1	0		2.68	59.67	50	20	0.1	1.002	1.195	19.34	
Methyl Acetate	1	0		2.98	40.53	50	20	0.1	0.200	0.136	18.95	
Methyl-t-butyl ether	1	0		3.28	46.54	50	20	0.1	0.512	0.477	6.92	
1,1-Dichloroethane	1	0		3.64	56.77	50	20	0.2	0.932	1.058	13.53	
trans-1,2-Dichloroethene	1	0		3.29	59.78	50	20	0.1	0.538	0.643	19.55	
Ethyl-t-butyl ether	1	0		3.94	49.18	50	20	0.5	0.923	0.907	1.64	
cis-1,2-Dichloroethene	1	0		4.07	59.21	50	20	0.1	0.941	1.115	18.43	
Bromochloromethane	1	0		4.23	44.94	50	20		0.347	0.312	10.12	
2,2-Dichloropropane	1	0		4.07	59.93	50	20		0.867	1.039	19.87	
Ethyl acetate	1	0		4.10	53.30	50	20		0.146	0.155	6.60	
1,4-Dioxane	1	0		5.13	3108.35	2500	20		0.001	0.002	24.33	C1
1,1-Dichloropropene	1	0		4.49	59.94	50	20		0.913	1.095	19.87	
Chloroform	1	0		4.27	58.54	50	20	0.2	0.966	1.131	17.09	
Dibromofluoromethane	1	0	S	4.37	30.16	75	**		0.248	0.249	0.52	
Cyclohexane	1	0		4.43	50.21	50	20	0.1	1.193	1.198	0.41	
1,2-Dichloroethane-d4	1	0	S	4.57	29.62	75	**		0.114	0.113	1.25	
1,2-Dichloroethane	1	0		4.61	59.58	50	20	0.1	0.557	0.663	19.16	
2-Butanone	1	0		4.08	52.64	50	20	0.1	0.077	0.081	5.28	
1,1,1-Trichloroethane	1	0		4.39	59.75	50	20	0.1	1.030	1.231	19.50	
Carbon Tetrachloride	1	0		4.49	54.94	50	20	0.1	0.909	0.999	9.88	
Vinyl Acetate	1	0		3.28	47.33	50	20		0.182	0.172	5.35	
Bromodichloromethane	1	0		5.20	55.72	50	20	0.2	0.565	0.630	11.45	
Methylcyclohexane	1	0		5.05	57.02	50	20	0.1	1.002	1.143	14.04	
Dibromomethane	1	0		5.14	59.54	50	20		0.179	0.213	19.08	
1,2-Dichloropropane	1	0		5.07	53.93	50	20	0.1	0.445	0.480	7.86	
Trichloroethene	1	0		4.95	47.29	50	20	0.2	0.600	0.567	5.42	
Benzene	1	0		4.61	51.46	50	20	0.5	1.947	2.004	2.91	
tert-Amyl methyl ether	1	0		4.64	46.79	50	20		0.572	0.535	6.42	
Chlorobenzene-d5	1	0	I	6.32	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.61	57.09	50	20	0.5	0.637	0.727	14.18	
Methyl methacrylate	1	0		5.10	61.48	50	20	0.5	0.358	0.440	22.95	C1
Dibromochloromethane	1	0		6.02	62.09	50	20	0.1	0.508	0.631	24.18	C1

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 6M59248.D **Instrument:** GCMS 6

Cont Calibration Date/Time 9/29/2017 6:32:00 A Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.34	60.44	50	20		0.162	0.195	20.89	C1
cis-1,3-Dichloropropene	1	0		5.43	73.22	50	20	0.2	0.916	1.341	46.45	C1
trans-1,3-Dichloropropene	1	0		5.71	70.98	50	20	0.1	0.654	0.928	41.96	C1
Ethyl methacrylate	1	0		5.73	65.96	50	20	0.5	0.441	0.582	31.92	C1
1,1,2-Trichloroethane	1	0		5.81	73.28	50	20	0.1	0.360	0.527	46.55	C1
1,2-Dibromoethane	1	0		6.10	65.85	50	20	0.1	0.385	0.410	31.70	C1
1,3-Dichloropropane	1	0		5.90	72.26	50	20		0.668	0.966	44.52	C1
4-Methyl-2-Pentanone	1	0		5.50	59.75	50	20	0.1	0.265	0.317	19.50	
2-Hexanone	1	0		5.91	58.27	50	20	0.1	0.168	0.196	16.54	
Tetrachloroethene	1	0		5.89	80.56	50	20	0.2	0.914	1.472	61.11	C1
Toluene-d8	1	0	S	5.58	36.72	75	**		1.629	1.994	22.41	
Toluene	1	0		5.61	68.65	50	20	0.4	2.206	2.896	37.31	C1
1,1,1,2-Tetrachloroethane	1	0		6.37	69.26	50	20		0.599	0.830	38.51	C1
Chlorobenzene	1	0		6.34	70.43	50	20	0.5	1.937	2.729	40.86	C1
1,4-Dichlorobenzene-d4	1	0	I	7.57	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.58	46.42	50	20	0.5	1.347	1.250	7.15	
n-Amyl acetate	1	0		6.70	50.24	50	20	0.5	1.113	1.118	0.48	
Bromoform	1	0		6.77	61.20	50	20	0.1	0.547	0.670	22.40	C1
Ethylbenzene	1	0		6.38	49.26	50	20	0.1	2.314	2.279	1.49	
1,1,2,2-Tetrachloroethane	1	0		6.99	53.37	50	20	0.1	0.794	0.847	6.74	
Bromofluorobenzene	1	0	S	6.93	32.09	75	**		0.879	0.940	6.96	
Styrene	1	0		6.65	59.90	50	20	0.3	3.621	4.339	19.80	
m&p-Xylenes	1	0		6.44	101.61	100	20	0.1	3.081	3.131	1.61	
o-Xylene	1	0		6.65	50.75	50	20	0.3	2.651	2.691	1.49	
trans-1,4-Dichloro-2-butene	1	0		7.00	56.95	50	20		1.118	1.273	13.91	
1,3-Dichlorobenzene	1	0		7.54	54.73	50	20	0.6	3.061	3.351	9.45	
1,4-Dichlorobenzene	1	0		7.59	54.45	50	20	0.5	2.902	3.160	8.90	
1,2-Dichlorobenzene	1	0		7.80	54.43	50	20	0.4	2.249	2.449	8.86	
Isopropylbenzene	1	0		6.83	52.55	50	20	0.1	8.995	9.453	5.10	
Cyclohexanone	1	0		7.00	246.23	250	20		0.110	0.109	1.51	
Camphene	1	0		7.00	59.69	50	20		4.822	5.756	19.38	
1,2,3-Trichloropropane	1	0		7.03	59.91	50	20		1.037	1.242	19.82	
2-Chlorotoluene	1	0		7.12	57.53	50	20		5.743	6.608	15.07	
p-Ethyltoluene	1	0		7.11	57.87	50	20		8.765	10.145	15.75	
4-Chlorotoluene	1	0		7.18	60.72	50	20		5.243	6.367	21.44	C1
n-Propylbenzene	1	0		7.06	56.95	50	20		10.776	12.274	13.90	
Bromobenzene	1	0		7.03	58.31	50	20		3.431	4.001	16.62	
1,3,5-Trimethylbenzene	1	0		7.14	50.61	50	20		6.897	6.981	1.21	
Butyl methacrylate	1	0		7.15	53.14	50	20	0.5	1.943	2.065	6.28	
t-Butylbenzene	1	0		7.33	55.82	50	20		6.522	7.281	11.63	
1,2,4-Trimethylbenzene	1	0		7.35	51.28	50	20		6.801	6.975	2.56	
sec-Butylbenzene	1	0		7.45	50.23	50	20		9.145	9.187	0.46	
4-Isopropyltoluene	1	0		7.52	52.43	50	20		7.004	7.344	4.85	
n-Butylbenzene	1	0		7.75	51.90	50	20		9.517	9.879	3.80	
p-Diethylbenzene	1	0		7.74	55.05	50	20		4.216	4.642	10.10	
1,2,4,5-Tetramethylbenzene	1	0		8.18	52.16	50	20		4.700	4.903	4.31	
1,2-Dibromo-3-Chloropropane	1	0		8.25	41.62	50	20	0.05	0.082	0.068	16.75	
Camphor	1	0		8.67	430.96	500	20		0.018	0.015	13.81	
Hexachlorobutadiene	1	0		8.80	50.37	50	20		1.630	1.642	0.74	
1,2,4-Trichlorobenzene	1	0		8.72	48.10	50	20	0.2	1.204	1.158	3.80	
1,2,3-Trichlorobenzene	1	0		9.01	43.78	50	20		0.849	0.743	12.45	
Naphthalene	1	0		8.88	47.20	50	20		1.033	0.975	5.59	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

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FORM8

Internal Standard Areas

Evaluation Std Data File: 6M58204.D Method: EPA 8260C

Analysis Date/Time: 09/07/17 07:18

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	221245	4.76	122422	6.33	58835	7.57								
Eval File Area Limit:	110622-442490		61211-244844		29418-117670									
Eval File Rt Limit:	4.26-5.26		5.83-6.83		7.07-8.07									

Data File	Sample						
6M58200.D	CAL @ 0.5 PPB	201509	4.76	107609	6.33	46309	7.57
6M58201.D	CAL @ 1 PPB	200880	4.76	109155	6.33	51276	7.57
6M58202.D	CAL @ 2 PPB	215580	4.76	121488	6.33	56120	7.58
6M58203.D	CAL @ 5 PPB	202042	4.76	114052	6.33	54207	7.58
6M58204.D	CAL @ 20 PPB	221245	4.76	122422	6.33	58835	7.57
6M58206.D	CAL @ 50 PPB	265114	4.76	143311	6.33	67986	7.58
6M58208.D	CAL @ 500 PPB	238632	4.77	132837	6.35	57930	7.59
6M58210.D	CAL @ 250 PPB	268404	4.76	143282	6.33	54251	7.57
6M58212.D	CAL @ 100 PPB	242458	4.76	138078	6.33	61562	7.58
6M58216.D	ICV	226291	4.76	124385	6.33	52478	7.58

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

7092827 0044

FORM8

Internal Standard Areas

Evaluation Std Data File: 6M59248.D Method: EPA 8260C

Analysis Date/Time: 09/29/17 06:32

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	203204	4.75	85877	6.32	43315	7.57								
Eval File Area Limit:	101602-406408		42938-171754		21658-86630									
Eval File Rt Limit:	4.25-5.25		5.82-6.82		7.07-8.07									

Data File	Sample						
6M59246.D	BLK	150344	4.75	89253	6.32	35124	7.57
6M59247.D	50 PPB	204742	4.75	108935	6.32	46425	7.57
6M59249.D	BLK	165083	4.75	81669	6.32	32302	7.57
6M59250.D	BLK	161638	4.75	71539	6.32	29403	7.57
6M59251.D	DAILY BLANK	175495	4.75	92814	6.32	34937	7.57
6M59252.D	BLK	186777	4.74	96998	6.32	31318	7.57
6M59253.D	AD00298-001	163949	4.75	84388	6.32	31276	7.57
6M59254.D	AD00289-008	157573	4.76	63242	6.33	29725	7.58
6M59255.D	AD00289-007	154530	4.75	84315	6.32	31881	7.57
6M59256.D	MBS64307	183073	4.75	95624	6.32	43542	7.57
6M59257.D	AD00091-024(MS)	198746	4.75	75341	6.32	43489	7.57
6M59258.D	AD00091-024(MSD)	180476	4.75	78934	6.32	43504	7.57
6M59259.D	BLK	187962	4.75	100510	6.32	39515	7.57
6M59260.D	AD00296-011	162045	4.75	68317	6.32	31653	7.57
6M59261.D	AD00289-001	159547	4.75	89263	6.32	35374	7.57
6M59262.D	AD00289-002	166357	4.75	94201	6.32	35770	7.57
6M59263.D	AD00289-003	177309	4.75	93416	6.32	35381	7.57
6M59264.D	AD00289-004	158735	4.75	70914	6.32	30697	7.57
6M59265.D	AD00289-005	159040	4.76	91093	6.33	33557	7.57
6M59266.D	AD00289-006	157378	4.75	87858	6.32	31671	7.57
6M59267.D	AD00289-009	162437	4.76	91094	6.33	33537	7.58
6M59268.D	AD00290-001	147882	4.76	77572	6.33	27198	7.58
6M59269.D	AD00290-003	157726	4.75	85924	6.33	31330	7.57
6M59270.D	AD00290-005	152620	4.75	81606	6.33	23353	7.57
6M59271.D	AD00290-007	160854	4.75	85959	6.32	26901	7.57
6M59272.D	AD00290-009	168350	4.75	95438	6.32	28973	7.57
6M59273.D	AD00290-013	161326	4.75	83527	6.33	33673	7.57
6M59274.D	AD00290-011	162709	4.75	77938	6.32	32211	7.57
6M59275.D	AD00316-023	147107	4.76	83235	6.33	28018	7.58
6M59276.D	AD00316-025	142192	4.76	59310	6.33	26903	7.57
6M59277.D	AD00091-024	162201	4.75	88966	6.32	29979	7.57

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

TCLP Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD00298-001(T)
Client Id: 475 EXTERIOR NYRECYC
Data File: 3M117852.D
Analysis Date: 10/02/17 09:16
Date Rec/Extracted: 09/28/17-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
75-35-4	1,1-Dichloroethene	0.0010	U	108-90-7	Chlorobenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.00050	U	67-66-3	Chloroform	0.0010	U
106-46-7	1,4-Dichlorobenzene	0.0010	U	127-18-4	Tetrachloroethene	0.0010	U
78-93-3	2-Butanone	0.0010	U	79-01-6	Trichloroethene	0.0010	U
71-43-2	Benzene	0.00050	U	75-01-4	Vinyl Chloride	0.0010	U
56-23-5	Carbon Tetrachloride	0.0010	U				

Worksheet #: 439213

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

7092827 0047

SampleID : AD00298-001(T) Operator : SG Qt Meth : 3M_A0830.M
Data File: 3M117852.D Sam Mult : 1 Vial# : 10 Qt On : 10/02/17 09:39
Acq On : 10/ 2/17 09:16 Misc : A,5ML!11 Qt Upd On: 08/31/17 08:56

Data Path : G:\GcMsData\2017\GCMS_3\Data\10-02-17\
Qt Path : G:\GcMsData\2017\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.934	96	267821	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.766	117	243367	30.00	ug/l	-0.03
70) 1,4-Dichlorobenzene-d4	8.207	152	102317	30.00	ug/l	-0.03
System Monitoring Compounds						
37) Dibromofluoromethane	4.513	111	83110	33.34	ug/l	-0.02
Spiked Amount 30.000			Recovery = 111.13%			
39) 1,2-Dichloroethane-d4	4.735	67	64006	33.73	ug/l	-0.02
Spiked Amount 30.000			Recovery = 112.43%			
66) Toluene-d8	5.889	98	289766	27.04	ug/l	-0.03
Spiked Amount 30.000			Recovery = 90.13%			
76) Bromofluorobenzene	7.474	174	103961	27.93	ug/l	-0.03
Spiked Amount 30.000			Recovery = 93.10%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

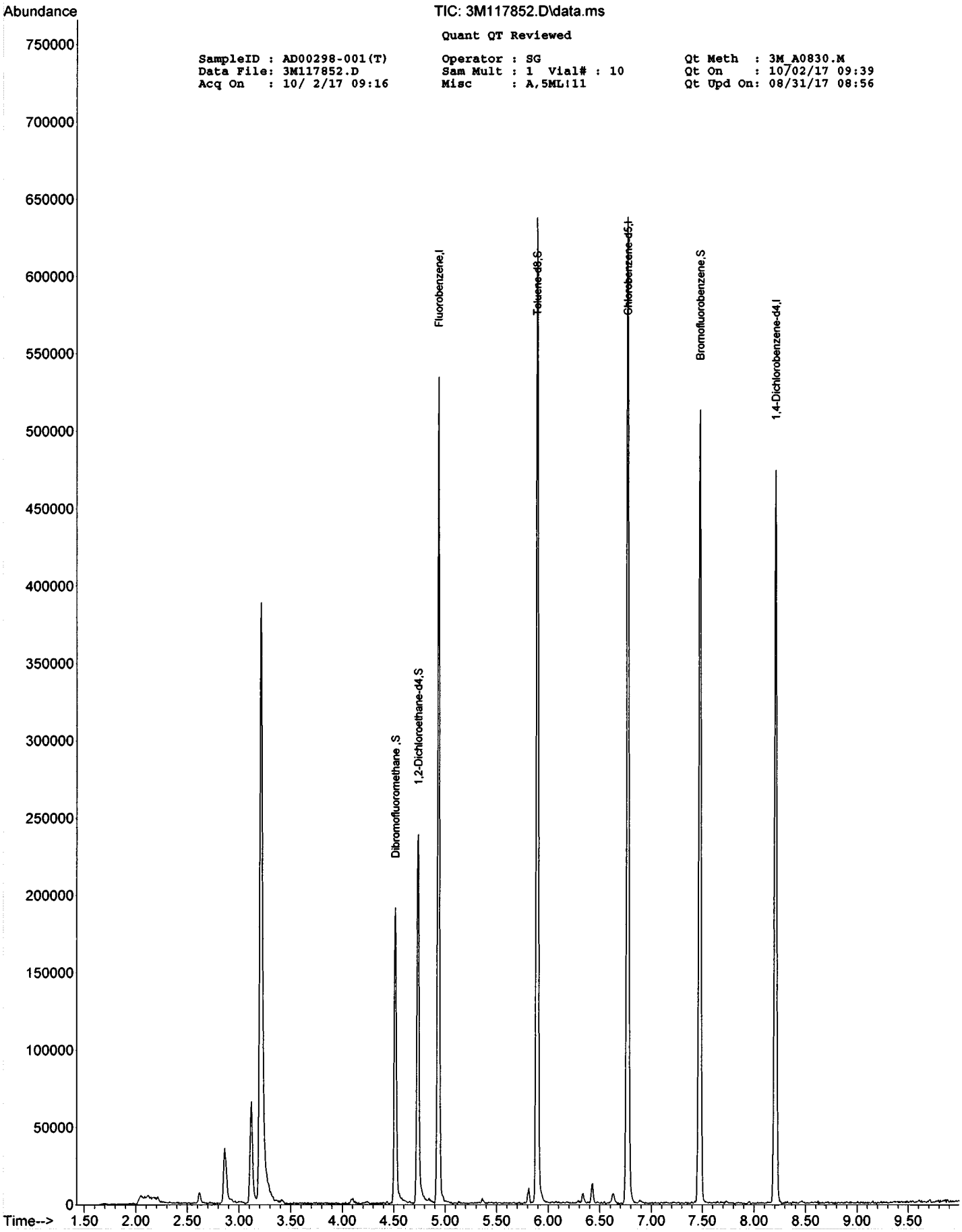
Abundance
TIC: 3M117852.D\data.ms
Quant QT Reviewed
SampleID : AD00298-001(T)
Data File: 3M117852.D
Acq On : 10/ 2/17 09:16
Operator : SG
Sam Mult : 1 Vial# : 10
Misc : A,5ML;11
Qt Meth : 3M_A0830.M
Qt On : 10/02/17 09:39
Qt Upd On: 08/31/17 08:56
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 3M117850.D
Analysis Date: 10/02/17 08:38
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
75-35-4	1,1-Dichloroethene	0.0010	U	108-90-7	Chlorobenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.00050	U	67-66-3	Chloroform	0.0010	U
106-46-7	1,4-Dichlorobenzene	0.0010	U	127-18-4	Tetrachloroethene	0.0010	U
78-93-3	2-Butanone	0.0010	U	79-01-6	Trichloroethene	0.0010	U
71-43-2	Benzene	0.00050	U	75-01-4	Vinyl Chloride	0.0010	U
56-23-5	Carbon Tetrachloride	0.0010	U				

Worksheet #: 439213

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

7092827 0050

SampleID : DAILY BLANK
Data File: 3M117850.D
Acq On : 10/ 2/17 08:38

Operator : SG
Sam Mult : 1 Vial# : 8
Misc : A,5ML

Qt Meth : 3M_A0830.M
Qt On : 10/02/17 09:11
Qt Upd On: 08/31/17 08:56

Data Path : G:\GcMsData\2017\GCMS_3\Data\10-02-17\
Qt Path : G:\GcMsData\2017\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
4) Fluorobenzene	4.934	96	294126	30.00 ug/l	-0.02
52) Chlorobenzene-d5	6.766	117	276144	30.00 ug/l	-0.03
70) 1,4-Dichlorobenzene-d4	8.208	152	114800	30.00 ug/l	-0.03
System Monitoring Compounds					
37) Dibromofluoromethane	4.513	111	91176	33.31 ug/l	-0.02
Spiked Amount 30.000			Recovery	= 111.03%	
39) 1,2-Dichloroethane-d4	4.736	67	71645	34.38 ug/l	-0.02
Spiked Amount 30.000			Recovery	= 114.60%	
66) Toluene-d8	5.889	98	324448	26.68 ug/l	-0.03
Spiked Amount 30.000			Recovery	= 88.93%	
76) Bromofluorobenzene	7.475	174	115858	27.75 ug/l	-0.03
Spiked Amount 30.000			Recovery	= 92.50%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

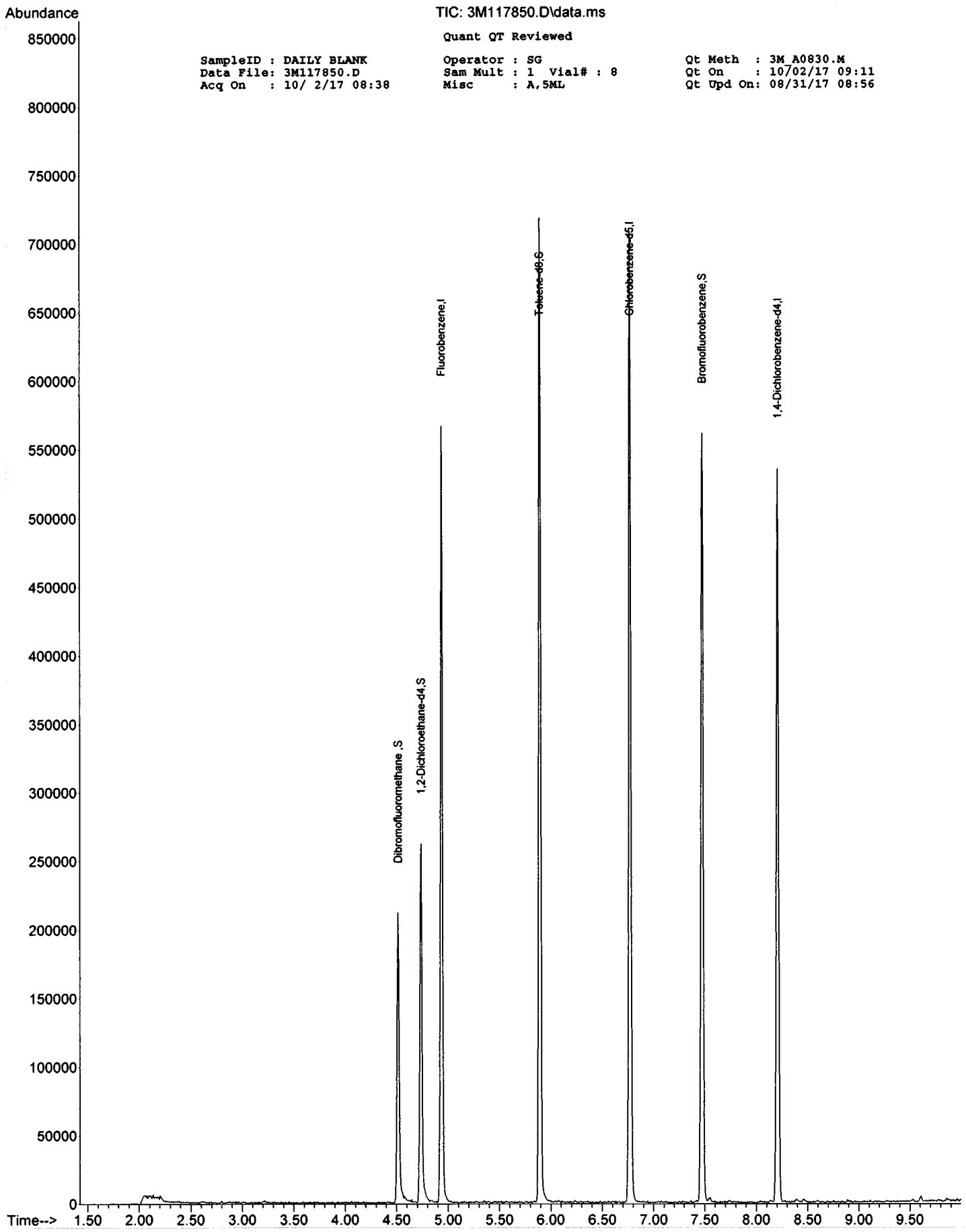
Abundance
TIC: 3M117850.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 3M117850.D
Acq On : 10/ 2/17 08:38
Operator : SG
Sam Mult : 1 Vial# : 8
Misc : A,5ML
Qt Meth : 3M_A0830.M
Qt On : 10/02/17 09:11
Qt Upd On: 08/31/17 08:56
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: EF-1V-264202(093017)
Client Id:
Data File: 3M117858.D
Analysis Date: 10/02/17 10:57
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
75-35-4	1,1-Dichloroethene	0.0010	U	108-90-7	Chlorobenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.00050	U	67-66-3	Chloroform	0.0010	U
106-46-7	1,4-Dichlorobenzene	0.0010	U	127-18-4	Tetrachloroethene	0.0010	U
78-93-3	2-Butanone	0.0010	U	79-01-6	Trichloroethene	0.0010	U
71-43-2	Benzene	0.00050	U	75-01-4	Vinyl Chloride	0.0010	U
56-23-5	Carbon Tetrachloride	0.0010	U				

Worksheet #: 439213 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

7092827 0053

SampleID : EF-1V-264202(093017 Operator : SG Qt Meth : 3M_A0830.M
Data File: 3M117858.D Sam Mult : 1 Vial# : 16 Qt On : 10/02/17 11:20
Acq On : 10/ 2/17 10:57 Misc : A,5ML!34 Qt Upd On: 08/31/17 08:56

Data Path : G:\GcMsData\2017\GCMS_3\Data\10-02-17\
Qt Path : G:\GcMsData\2017\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
4) Fluorobenzene	4.935	96	293549	30.00 ug/l	-0.02
52) Chlorobenzene-d5	6.767	117	269102	30.00 ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	8.209	152	114493	30.00 ug/l	-0.02
System Monitoring Compounds					
37) Dibromofluoromethane	4.514	111	91783	33.59 ug/l	-0.02
Spiked Amount 30.000			Recovery	= 111.97%	
39) 1,2-Dichloroethane-d4	4.737	67	70683	33.99 ug/l	-0.02
Spiked Amount 30.000			Recovery	= 113.30%	
66) Toluene-d8	5.890	98	312038	26.34 ug/l	-0.02
Spiked Amount 30.000			Recovery	= 87.80%	
76) Bromofluorobenzene	7.476	174	115431	27.72 ug/l	-0.02
Spiked Amount 30.000			Recovery	= 92.40%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

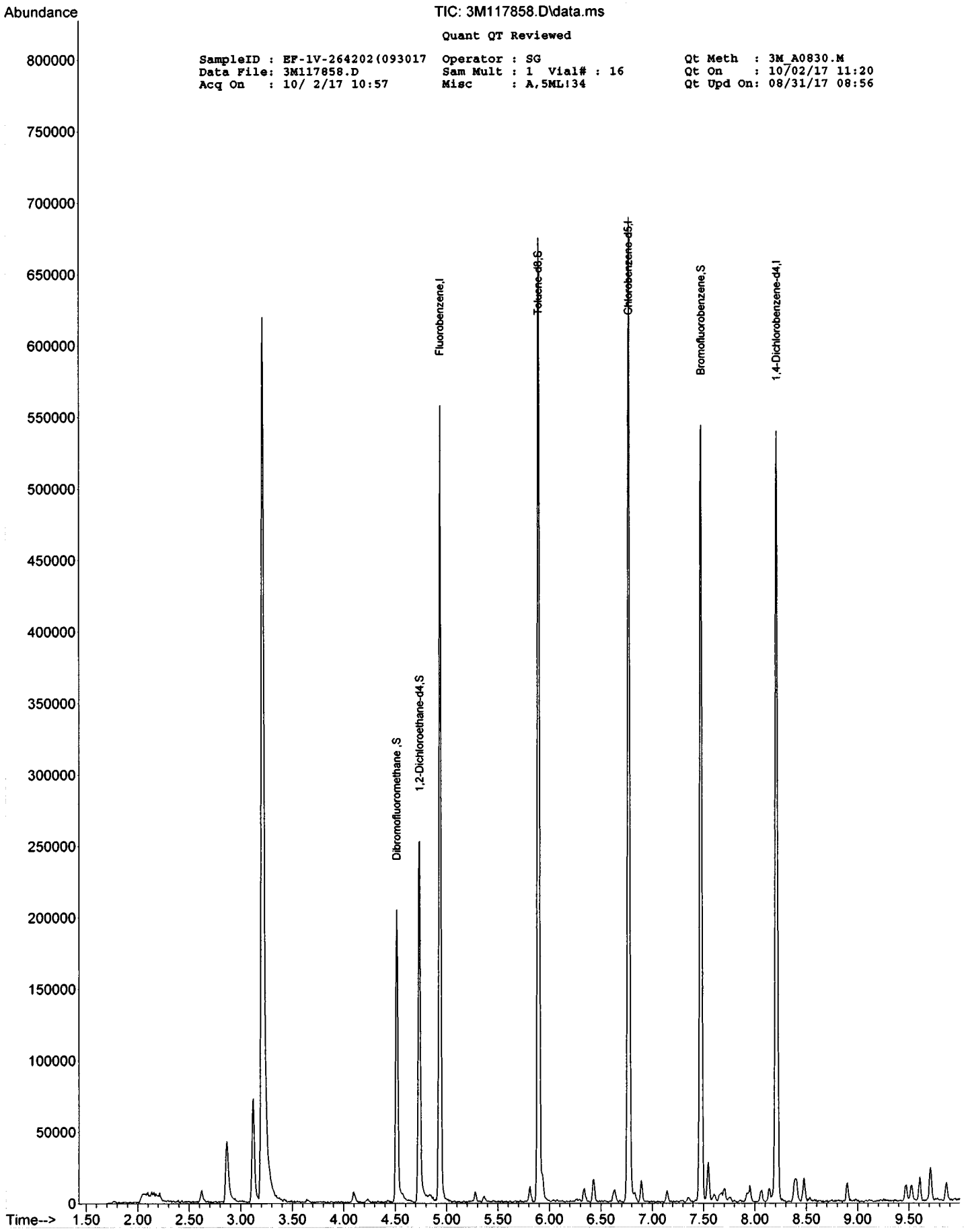
Abundance
TIC: 3M117858.D\data.ms
Quant QT Reviewed
SampleID : EF-1V-264202(093017
Data File: 3M117858.D
Acq On : 10/ 2/17 10:57
Operator : SG
Sam Mult : 1 Vial# : 16
Misc : A,5ML!34
Qt Meth : 3M_A0830.M
Qt On : 10/02/17 11:20
Qt Upd On: 08/31/17 08:56
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8260C

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
3M117850.D	DAILY BLANK	A	10/02/17 08:38	1		111	115	89	92		
3M117858.D	EF-1V-264202(093017)	A	10/02/17 10:57	1		112	113	88	92		
3M117852.D	AD00298-001(T)	A	10/02/17 09:16	1		111	112	90	93		
3M117855.D	MBS64316	A	10/02/17 10:06	1		109	115	90	92		
3M117856.D	AD00298-001(T:MS)	A	10/02/17 10:23	1		111	118	88	93		
3M117857.D	AD00298-001(T:MSD)	A	10/02/17 10:40	1		112	111	89	92		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260C

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	73-131
S2=1,2-Dichloroethane-d4	30	78-128
S3=Toluene-d8	30	79-111
S4=Bromofluorobenzene	30	82-112

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64316

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M117855.D	MBS64316	10/2/2017 10:06:00 AM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	26.5785	0	20	133	50	150
Dichlorodifluoromethane	1	31.65	0	20	158*	50	150
Chloromethane	1	26.0383	0	20	130	50	150
Bromomethane	1	19.4432	0	20	97	50	150
Vinyl Chloride	1	21.9915	0	20	110	50	150
Chloroethane	1	25.6002	0	20	128	50	150
Trichlorofluoromethane	1	26.6957	0	20	133	50	150
Ethyl ether	1	22.7419	0	20	114	50	150
Furan	1	27.3193	0	20	137	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	27.7815	0	20	139	50	150
Methylene Chloride	1	23.5352	0	20	118	70	130
Acrolein	1	48.5203	0	100	49*	50	150
Acrylonitrile	1	22.3408	0	20	112	50	150
Iodomethane	1	24.3437	0	20	122	50	150
Acetone	1	122.608	0	100	123	50	150
Carbon Disulfide	1	26.6617	0	20	133	50	150
t-Butyl Alcohol	1	79.2683	0	100	79	50	150
n-Hexane	1	28.4752	0	20	142*	70	130
Di-isopropyl-ether	1	24.3658	0	20	122	70	130
1,1-Dichloroethene	1	25.2091	0	20	126	70	130
Methyl Acetate	1	22.1348	0	20	111	50	150
Methyl-t-butyl ether	1	24.0075	0	20	120	70	130
1,1-Dichloroethane	1	24.5353	0	20	123	70	130
trans-1,2-Dichloroethene	1	24.3665	0	20	122	70	130
Ethyl-t-butyl ether	1	24.8354	0	20	124	70	130
cis-1,2-Dichloroethene	1	24.8089	0	20	124	70	130
Bromochloromethane	1	23.1528	0	20	116	70	130
2,2-Dichloropropane	1	29.585	0	20	148*	70	130
Ethyl acetate	1	22.899	0	20	114	50	130
1,4-Dioxane	1	1159.251	0	1000	116	50	150
1,1-Dichloropropene	1	27.4763	0	20	137*	70	130
Chloroform	1	23.7502	0	20	119	70	130
Cyclohexane	1	28.3176	0	20	142*	70	130
1,2-Dichloroethane	1	25.4495	0	20	127	70	130
2-Butanone	1	24.2526	0	20	121	50	150
1,1,1-Trichloroethane	1	26.0128	0	20	130	70	130
Carbon Tetrachloride	1	25.925	0	20	130	50	150
Vinyl Acetate	1	26.4368	0	20	132	50	150
Bromodichloromethane	1	22.9821	0	20	115	70	130
Methylcyclohexane	1	27.9987	0	20	140*	70	130
Dibromomethane	1	22.5756	0	20	113	70	130
1,2-Dichloropropane	1	24.3515	0	20	122	70	130
Trichloroethene	1	24.8547	0	20	124	70	130
Benzene	1	25.6476	0	20	128	70	130
tert-Amyl methyl ether	1	26.4672	0	20	132*	70	130
Iso-propylacetate	1	20.4978	0	20	102	70	130
Methyl methacrylate	1	19.4786	0	20	97	70	130
Dibromochloromethane	1	17.7329	0	20	89	70	130
2-Chloroethylvinylether	1	17.4371	0	20	87	70	130
cis-1,3-Dichloropropene	1	18.3138	0	20	92	70	130
trans-1,3-Dichloropropene	1	18.035	0	20	90	70	130
Ethyl methacrylate	1	19.417	0	20	97	70	130
1,1,2-Trichloroethane	1	17.4882	0	20	87	70	130
1,2-Dibromoethane	1	17.5703	0	20	88	70	130
1,3-Dichloropropane	1	19.5984	0	20	98	70	130
4-Methyl-2-Pentanone	1	18.87	0	20	94	50	150
2-Hexanone	1	19.5436	0	20	98	50	150
Tetrachloroethene	1	20.318	0	20	102	50	130
Toluene	1	19.986	0	20	100	70	130
1,1,1,2-Tetrachloroethane	1	20.0233	0	20	100	70	130
Chlorobenzene	1	18.6185	0	20	93	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64316

n-Butyl acrylate	1	11.9279	0	20	60*	70	130
n-Amyl acetate	1	17.7899	0	20	89	70	130
Bromoform	1	13.2229	0	20	66*	70	130
Ethylbenzene	1	20.4479	0	20	102	70	130
1,1,2,2-Tetrachloroethane	1	14.163	0	20	71	70	130
Styrene	1	18.0976	0	20	90	70	130
m&p-Xylenes	1	37.2107	0	40	93	70	130
o-Xylene	1	18.4604	0	20	92	70	130
trans-1,4-Dichloro-2-butene	1	18.5113	0	20	93	50	150
1,3-Dichlorobenzene	1	16.1821	0	20	81	70	130
1,4-Dichlorobenzene	1	15.7936	0	20	79	70	130
1,2-Dichlorobenzene	1	14.8427	0	20	74	70	130
Isopropylbenzene	1	17.8161	0	20	89	70	130
Cyclohexanone	1	157.8638	0	100	158*	50	150
Camphene	1	18.7145	0	20	94	70	130
1,2,3-Trichloropropane	1	16.5216	0	20	83	70	130
2-Chlorotoluene	1	19.8479	0	20	99	70	130
p-Ethyltoluene	1	15.8297	0	20	79	70	130
4-Chlorotoluene	1	18.4702	0	20	92	70	130
n-Propylbenzene	1	18.6961	0	20	93	70	130
Bromobenzene	1	18.8272	0	20	94	70	130
1,3,5-Trimethylbenzene	1	19.5672	0	20	98	70	130
Butyl methacrylate	1	17.8162	0	20	89	70	130
t-Butylbenzene	1	16.8719	0	20	84	70	130
1,2,4-Trimethylbenzene	1	17.9837	0	20	90	70	130
sec-Butylbenzene	1	17.5815	0	20	88	70	130
4-Isopropyltoluene	1	15.8823	0	20	79	70	130
n-Butylbenzene	1	18.4638	0	20	92	70	130
p-Diethylbenzene	1	17.2749	0	20	86	70	130
1,2,4,5-Tetramethylbenzene	1	17.1464	0	20	86	70	130
1,2-Dibromo-3-Chloropropane	1	8.5498	0	20	43*	50	150
Camphor	1	131.6018	0	200	66	50	150
Hexachlorobutadiene	1	10.9505	0	20	55	50	150
1,2,4-Trichlorobenzene	1	13.948	0	20	70	70	130
1,2,3-Trichlorobenzene	1	12.5877	0	20	63*	70	130
Naphthalene	1	13.1773	0	20	66	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64316

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M117856.D	AD00298-001(T:MS)	10/2/2017 10:23:00 AM
Non Spike(If applicable):	3M117852.D	AD00298-001(T)	10/2/2017 9:16:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	25.7503	0	20	129	50	150
Dichlorodifluoromethane	1	20.7432	0	20	104	50	150
Chloromethane	1	23.5767	0	20	118	50	150
Bromomethane	1	16.1622	0	20	81	50	150
Vinyl Chloride	1	17.2151	0	20	86	50	150
Chloroethane	1	23.2441	0	20	116	50	150
Trichlorofluoromethane	1	21.4193	0	20	107	50	150
Ethyl ether	1	20.1451	0	20	101	50	150
Furan	1	23.6126	0	20	118	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.1374	0	20	111	50	150
Methylene Chloride	1	69.6851	0	20	348*	70	130
Acrolein	1	45.8559	0	100	46*	50	150
Acrylonitrile	1	20.6433	0	20	103	50	150
Iodomethane	1	20.5077	0	20	103	50	150
Acetone	1	158.9283	0	100	159*	50	150
Carbon Disulfide	1	21.7324	0	20	109	50	150
t-Butyl Alcohol	1	76.0062	0	100	76	50	150
n-Hexane	1	23.5922	0	20	118	70	130
Di-isopropyl-ether	1	20.7803	0	20	104	70	130
1,1-Dichloroethene	1	19.5318	0	20	98	70	130
Methyl Acetate	1	40.3987	0	20	202*	50	150
Methyl-t-butyl ether	1	20.5004	0	20	103	70	130
1,1-Dichloroethane	1	21.334	0	20	107	70	130
trans-1,2-Dichloroethene	1	21.6352	0	20	108	70	130
Ethyl-t-butyl ether	1	21.3198	0	20	107	70	130
cis-1,2-Dichloroethene	1	22.0185	0	20	110	70	130
Bromochloromethane	1	20.1735	0	20	101	70	130
2,2-Dichloropropane	1	25.9992	0	20	130	70	130
Ethyl acetate	1	26.191	0	20	131*	50	130
1,4-Dioxane	1	1042.757	0	1000	104	50	150
1,1-Dichloropropene	1	23.6903	0	20	118	70	130
Chloroform	1	20.6277	0	20	103	70	130
Cyclohexane	1	23.4473	0	20	117	70	130
1,2-Dichloroethane	1	21.5976	0	20	108	70	130
2-Butanone	1	14.2542	0	20	71	50	150
1,1,1-Trichloroethane	1	21.555	0	20	108	70	130
Carbon Tetrachloride	1	21.8262	0	20	109	50	150
Vinyl Acetate	1	23.8046	0	20	119	50	150
Bromodichloromethane	1	19.9474	0	20	100	70	130
Methylcyclohexane	1	24.072	0	20	120	70	130
Dibromomethane	1	19.2599	0	20	96	70	130
1,2-Dichloropropane	1	20.591	0	20	103	70	130
Trichloroethene	1	21.6731	0	20	108	70	130
Benzene	1	22.4149	0	20	112	70	130
tert-Amyl methyl ether	1	22.8645	0	20	114	70	130
Iso-propylacetate	1	16.6278	0	20	83	70	130
Methyl methacrylate	1	16.7031	0	20	84	70	130
Dibromochloromethane	1	15.4876	0	20	77	70	130
2-Chloroethylvinylether	1	15.1528	0	20	76	70	130
cis-1,3-Dichloropropene	1	15.2533	0	20	76	70	130
trans-1,3-Dichloropropene	1	15.2512	0	20	76	70	130
Ethyl methacrylate	1	16.454	0	20	82	70	130
1,1,2-Trichloroethane	1	15.261	0	20	76	70	130
1,2-Dibromoethane	1	15.3008	0	20	77	70	130
1,3-Dichloropropane	1	16.6773	0	20	83	70	130
4-Methyl-2-Pentanone	1	16.8565	0	20	84	50	150
2-Hexanone	1	16.1262	0	20	81	50	150
Tetrachloroethene	1	16.9423	0	20	85	50	130
Toluene	1	16.927	0	20	85	70	130
1,1,1,2-Tetrachloroethane	1	16.7706	0	20	84	70	130
Chlorobenzene	1	15.8841	0	20	79	70	130

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Form3
Recovery Data Laboratory Limits
QC Batch: MBS64316

n-Butyl acrylate	1	10.1536	0	20	51*	70	130
n-Amyl acetate	1	15.5528	0	20	78	70	130
Bromoform	1	11.5419	0	20	58*	70	130
Ethylbenzene	1	16.1844	0	20	81	70	130
1,1,2,2-Tetrachloroethane	1	12.5463	0	20	63*	70	130
Styrene	1	14.9223	0	20	75	70	130
m&p-Xylenes	1	30.8253	0	40	77	70	130
o-Xylene	1	15.7245	0	20	79	70	130
trans-1,4-Dichloro-2-butene	1	16.1536	0	20	81	50	150
1,3-Dichlorobenzene	1	13.533	0	20	68*	70	130
1,4-Dichlorobenzene	1	13.4358	0	20	67*	70	130
1,2-Dichlorobenzene	1	13.2098	0	20	66*	70	130
Isopropylbenzene	1	15.4041	0	20	77	70	130
Cyclohexanone	1	127.7919	0	100	128	50	150
Camphene	1	16.2738	0	20	81	70	130
1,2,3-Trichloropropane	1	14.4698	0	20	72	70	130
2-Chlorotoluene	1	16.5302	0	20	83	70	130
p-Ethyltoluene	1	14.6902	0	20	73	70	130
4-Chlorotoluene	1	16.3309	0	20	82	70	130
n-Propylbenzene	1	15.7837	0	20	79	70	130
Bromobenzene	1	14.2328	0	20	71	70	130
1,3,5-Trimethylbenzene	1	17.7035	0	20	89	70	130
Butyl methacrylate	1	15.8353	0	20	79	70	130
t-Butylbenzene	1	14.5616	0	20	73	70	130
1,2,4-Trimethylbenzene	1	15.3996	0	20	77	70	130
sec-Butylbenzene	1	15.081	0	20	75	70	130
4-Isopropyltoluene	1	13.8305	0	20	69*	70	130
n-Butylbenzene	1	15.839	0	20	79	70	130
p-Diethylbenzene	1	15.0486	0	20	75	70	130
1,2,4,5-Tetramethylbenzene	1	14.4518	0	20	72	70	130
1,2-Dibromo-3-Chloropropane	1	8.0623	0	20	40*	50	150
Camphor	1	124.2357	0	200	62	50	150
Hexachlorobutadiene	1	10.1634	0	20	51	50	150
1,2,4-Trichlorobenzene	1	11.4416	0	20	57*	70	130
1,2,3-Trichlorobenzene	1	11.2716	0	20	56*	70	130
Naphthalene	1	11.942	0	20	60	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS64316

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M117857.D	AD00298-001(T:MSD)	10/2/2017 10:40:00 AM
Non Spike(If applicable):	3M117852.D	AD00298-001(T)	10/2/2017 9:16:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	26.4471	0	20	132	50	150
Dichlorodifluoromethane	1	22.9858	0	20	115	50	150
Chloromethane	1	21.769	0	20	109	50	150
Bromomethane	1	17.6941	0	20	88	50	150
Vinyl Chloride	1	17.8576	0	20	89	50	150
Chloroethane	1	21.984	0	20	110	50	150
Trichlorofluoromethane	1	23.2215	0	20	116	50	150
Ethyl ether	1	21.5629	0	20	108	50	150
Furan	1	24.5687	0	20	123	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	23.3772	0	20	117	50	150
Methylene Chloride	1	76.3627	0	20	382*	70	130
Acrolein	1	51.0922	0	100	51	50	150
Acrylonitrile	1	20.8867	0	20	104	50	150
Iodomethane	1	22.3012	0	20	112	50	150
Acetone	1	162.8284	0	100	163*	50	150
Carbon Disulfide	1	23.4113	0	20	117	50	150
t-Butyl Alcohol	1	82.7668	0	100	83	50	150
n-Hexane	1	24.6315	0	20	123	70	130
Di-isopropyl-ether	1	22.3161	0	20	112	70	130
1,1-Dichloroethene	1	20.2802	0	20	101	70	130
Methyl Acetate	1	43.7527	0	20	219*	50	150
Methyl-t-butyl ether	1	21.5158	0	20	108	70	130
1,1-Dichloroethane	1	21.8663	0	20	109	70	130
trans-1,2-Dichloroethene	1	22.5309	0	20	113	70	130
Ethyl-t-butyl ether	1	22.3311	0	20	112	70	130
cis-1,2-Dichloroethene	1	23.5239	0	20	118	70	130
Bromochloromethane	1	20.6859	0	20	103	70	130
2,2-Dichloropropane	1	27.118	0	20	136*	70	130
Ethyl acetate	1	28.2578	0	20	141*	50	130
1,4-Dioxane	1	1083.956	0	1000	108	50	150
1,1-Dichloropropene	1	25.0456	0	20	125	70	130
Chloroform	1	22.018	0	20	110	70	130
Cyclohexane	1	24.9968	0	20	125	70	130
1,2-Dichloroethane	1	23.2411	0	20	116	70	130
2-Butanone	1	13.5683	0	20	68	50	150
1,1,1-Trichloroethane	1	22.8	0	20	114	70	130
Carbon Tetrachloride	1	23.7839	0	20	119	50	150
Vinyl Acetate	1	24.4428	0	20	122	50	150
Bromodichloromethane	1	21.4372	0	20	107	70	130
Methylcyclohexane	1	25.4819	0	20	127	70	130
Dibromomethane	1	20.068	0	20	100	70	130
1,2-Dichloropropane	1	22.0094	0	20	110	70	130
Trichloroethene	1	22.3153	0	20	112	70	130
Benzene	1	23.6188	0	20	118	70	130
tert-Amyl methyl ether	1	24.2649	0	20	121	70	130
Iso-propylacetate	1	17.8647	0	20	89	70	130
Methyl methacrylate	1	18.3321	0	20	92	70	130
Dibromochloromethane	1	16.0823	0	20	80	70	130
2-Chloroethylvinylether	1	14.6868	0	20	73	70	130
cis-1,3-Dichloropropene	1	15.9388	0	20	80	70	130
trans-1,3-Dichloropropene	1	16.4992	0	20	82	70	130
Ethyl methacrylate	1	18.1806	0	20	91	70	130
1,1,2-Trichloroethane	1	15.8892	0	20	79	70	130
1,2-Dibromoethane	1	15.8912	0	20	79	70	130
1,3-Dichloropropane	1	18.0447	0	20	90	70	130
4-Methyl-2-Pentanone	1	18.3201	0	20	92	50	150
2-Hexanone	1	16.8195	0	20	84	50	150
Tetrachloroethene	1	18.6877	0	20	93	50	130
Toluene	1	17.911	0	20	90	70	130
1,1,1,2-Tetrachloroethane	1	17.4204	0	20	87	70	130
Chlorobenzene	1	16.4979	0	20	82	70	130

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Form3
Recovery Data Laboratory Limits
QC Batch: MBS64316

n-Butyl acrylate	1	11.0714	0	20	55*	70	130
n-Amyl acetate	1	16.5036	0	20	83	70	130
Bromoform	1	12.066	0	20	60*	70	130
Ethylbenzene	1	16.0583	0	20	80	70	130
1,1,2,2-Tetrachloroethane	1	13.2803	0	20	66*	70	130
Styrene	1	16.2237	0	20	81	70	130
m&p-Xylenes	1	33.3128	0	40	83	70	130
o-Xylene	1	16.1477	0	20	81	70	130
trans-1,4-Dichloro-2-butene	1	16.9728	0	20	85	50	150
1,3-Dichlorobenzene	1	14.4343	0	20	72	70	130
1,4-Dichlorobenzene	1	14.3289	0	20	72	70	130
1,2-Dichlorobenzene	1	14.365	0	20	72	70	130
Isopropylbenzene	1	15.9204	0	20	80	70	130
Cyclohexanone	1	102.9977	0	100	103	50	150
Camphene	1	18.9428	0	20	95	70	130
1,2,3-Trichloropropane	1	15.1801	0	20	76	70	130
2-Chlorotoluene	1	17.9384	0	20	90	70	130
p-Ethyltoluene	1	14.9363	0	20	75	70	130
4-Chlorotoluene	1	16.6947	0	20	83	70	130
n-Propylbenzene	1	16.5972	0	20	83	70	130
Bromobenzene	1	16.8712	0	20	84	70	130
1,3,5-Trimethylbenzene	1	19.0686	0	20	95	70	130
Butyl methacrylate	1	16.5494	0	20	83	70	130
t-Butylbenzene	1	15.4145	0	20	77	70	130
1,2,4-Trimethylbenzene	1	15.9981	0	20	80	70	130
sec-Butylbenzene	1	15.517	0	20	78	70	130
4-Isopropyltoluene	1	14.7588	0	20	74	70	130
n-Butylbenzene	1	16.6225	0	20	83	70	130
p-Diethylbenzene	1	16.2374	0	20	81	70	130
1,2,4,5-Tetramethylbenzene	1	15.8952	0	20	79	70	130
1,2-Dibromo-3-Chloropropane	1	9.0425	0	20	45*	50	150
Camphor	1	126.2721	0	200	63	50	150
Hexachlorobutadiene	1	10.8944	0	20	54	50	150
1,2,4-Trichlorobenzene	1	12.6757	0	20	63*	70	130
1,2,3-Trichlorobenzene	1	12.222	0	20	61*	70	130
Naphthalene	1	12.7867	0	20	64	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: MBS64316

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M117857.D	AD00298-001(T:MSD)	10/2/2017 10:40:00 AM
Duplicate(If applicable):	3M117856.D	AD00298-001(T:MS)	10/2/2017 10:23:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	26.4471	25.7503	2.7	20
Dichlorodifluoromethane	1	22.9858	20.7432	10	20
Chloromethane	1	21.769	23.5767	8	20
Bromomethane	1	17.6941	16.1622	9	20
Vinyl Chloride	1	17.8576	17.2151	3.7	40
Chloroethane	1	21.984	23.2441	5.6	20
Trichlorofluoromethane	1	23.2215	21.4193	8.1	20
Ethyl ether	1	21.5629	20.1451	6.8	20
Furan	1	24.5687	23.6126	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	1	23.3772	22.1374	5.4	20
Methylene Chloride	1	76.3627	69.6851	9.1	20
Acrolein	1	51.0922	45.8559	11	20
Acrylonitrile	1	20.8867	20.6433	1.2	20
Iodomethane	1	22.3012	20.5077	8.4	20
Acetone	1	162.8284	158.9283	2.4	20
Carbon Disulfide	1	23.4113	21.7324	7.4	20
t-Butyl Alcohol	1	82.7668	76.0062	8.5	20
n-Hexane	1	24.6315	23.5922	4.3	20
Di-isopropyl-ether	1	22.3161	20.7803	7.1	20
1,1-Dichloroethene	1	20.2802	19.5318	3.8	40
Methyl Acetate	1	43.7527	40.3987	8	20
Methyl-t-butyl ether	1	21.5158	20.5004	4.8	20
1,1-Dichloroethane	1	21.8663	21.334	2.5	40
trans-1,2-Dichloroethene	1	22.5309	21.6352	4.1	20
Ethyl-t-butyl ether	1	22.3311	21.3198	4.6	20
cis-1,2-Dichloroethene	1	23.5239	22.0185	6.6	20
Bromochloromethane	1	20.6859	20.1735	2.5	20
2,2-Dichloropropane	1	27.118	25.9992	4.2	20
Ethyl acetate	1	28.2578	26.191	7.6	20
1,4-Dioxane	1	1083.956	1042.757	3.9	20
1,1-Dichloropropene	1	25.0456	23.6903	5.6	20
Chloroform	1	22.018	20.6277	6.5	40
Cyclohexane	1	24.9968	23.4473	6.4	20
1,2-Dichloroethane	1	23.2411	21.5976	7.3	40
2-Butanone	1	13.5683	14.2542	4.9	40
1,1,1-Trichloroethane	1	22.8	21.555	5.6	20
Carbon Tetrachloride	1	23.7839	21.8262	8.6	40
Vinyl Acetate	1	24.4428	23.8046	2.6	20
Bromodichloromethane	1	21.4372	19.9474	7.2	20
Methylcyclohexane	1	25.4819	24.072	5.7	20
Dibromomethane	1	20.068	19.2599	4.1	20
1,2-Dichloropropane	1	22.0094	20.591	6.7	20
Trichloroethene	1	22.3153	21.6731	2.9	40
Benzene	1	23.6188	22.4149	5.2	40
tert-Amyl methyl ether	1	24.2649	22.8645	5.9	20
Iso-propylacetate	1	17.8647	16.6278	7.2	20
Methyl methacrylate	1	18.3321	16.7031	9.3	20
Dibromochloromethane	1	16.0823	15.4876	3.8	20
2-Chloroethylvinylether	1	14.6868	15.1528	3.1	20
cis-1,3-Dichloropropene	1	15.9388	15.2533	4.4	20
trans-1,3-Dichloropropene	1	16.4992	15.2512	7.9	20
Ethyl methacrylate	1	18.1806	16.454	10	20
1,1,2-Trichloroethane	1	15.8892	15.261	4	20
1,2-Dibromoethane	1	15.8912	15.3008	3.8	20
1,3-Dichloropropane	1	18.0447	16.6773	7.9	20
4-Methyl-2-Pentanone	1	18.3201	16.8565	8.3	20
2-Hexanone	1	16.8195	16.1262	4.2	20
Tetrachloroethene	1	18.6877	16.9423	9.8	40
Toluene	1	17.911	16.927	5.6	40
1,1,1,2-Tetrachloroethane	1	17.4204	16.7706	3.8	20
Chlorobenzene	1	16.4979	15.8841	3.8	40
n-Butyl acrylate	1	11.0714	10.1536	8.6	20
n-Amyl acetate	1	16.5036	15.5528	5.9	20

Form3
RPD Data Laboratory Limits
QC Batch: MBS64316

Bromoform	1	12.066	11.5419	4.4	20
Ethylbenzene	1	16.0583	16.1844	0.78	20
1,1,2,2-Tetrachloroethane	1	13.2803	12.5463	5.7	20
Styrene	1	16.2237	14.9223	8.4	20
m&p-Xylenes	1	33.3128	30.8253	7.8	20
o-Xylene	1	16.1477	15.7245	2.7	20
trans-1,4-Dichloro-2-butene	1	16.9728	16.1536	4.9	20
1,3-Dichlorobenzene	1	14.4343	13.533	6.4	20
1,4-Dichlorobenzene	1	14.3289	13.4358	6.4	40
1,2-Dichlorobenzene	1	14.365	13.2098	8.4	40
Isopropylbenzene	1	15.9204	15.4041	3.3	20
Cyclohexanone	1	102.9977	127.7919	21 *	20
Camphene	1	18.9428	16.2738	15	20
1,2,3-Trichloropropane	1	15.1801	14.4698	4.8	20
2-Chlorotoluene	1	17.9384	16.5302	8.2	20
p-Ethyltoluene	1	14.9363	14.6902	1.7	20
4-Chlorotoluene	1	16.6947	16.3309	2.2	20
n-Propylbenzene	1	16.5972	15.7837	5	40
Bromobenzene	1	16.8712	14.2328	17	20
1,3,5-Trimethylbenzene	1	19.0686	17.7035	7.4	20
Butyl methacrylate	1	16.5494	15.8353	4.4	20
t-Butylbenzene	1	15.4145	14.5616	5.7	20
1,2,4-Trimethylbenzene	1	15.9981	15.3996	3.8	20
sec-Butylbenzene	1	15.517	15.081	2.8	40
4-Isopropyltoluene	1	14.7588	13.8305	6.5	20
n-Butylbenzene	1	16.6225	15.839	4.8	20
p-Diethylbenzene	1	16.2374	15.0486	7.6	20
1,2,4,5-Tetramethylbenzene	1	15.8952	14.4518	9.5	20
1,2-Dibromo-3-Chloropropane	1	9.0425	8.0623	11	20
Camphor	1	126.2721	124.2357	1.6	20
Hexachlorobutadiene	1	10.8944	10.1634	6.9	20
1,2,4-Trichlorobenzene	1	12.6757	11.4416	10	20
1,2,3-Trichlorobenzene	1	12.222	11.2716	8.1	20
Naphthalene	1	12.7867	11.942	6.8	20

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 3M117850.D
Matrix: Aqueous

Blank Analysis Date: 10/02/17 08:38
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260C

Sample Number	Data File	Analysis Date
AD00298-001(T)	3M117852.D	10/02/17 09:16
EF-1V-264202(093	3M117858.D	10/02/17 10:57
AD00298-001(T:M	3M117857.D	10/02/17 10:40
AD00298-001(T:M	3M117856.D	10/02/17 10:23
MBS64316	3M117855.D	10/02/17 10:06

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 3

Data File: 3M116065.D
Analysis Date: 08/30/17 07:56
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.926 to 5.005 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	20.5	13736	PASS
75	95	30	60	55.9	37424	PASS
95	95	100	100	100.0	66989	PASS
96	95	5	9	7.6	5102	PASS
173	174	0.00	2	0.7	311	PASS
174	95	50	100	71.0	47548	PASS
175	174	5	9	7.4	3518	PASS
176	174	95	101	95.3	45310	PASS
177	176	5	9	7.4	3351	PASS

Data File	Sample Number	Analysis Date:
3M116066.D	BLK	08/30/17 08:06
3M116067.D	CAL @ 0.5 PPB	08/30/17 08:23
3M116068.D	1 PPB	08/30/17 08:40
3M116069.D	CAL @ 5 PPB	08/30/17 08:57
3M116070.D	CAL @ 10 PPB	08/30/17 09:13
3M116071.D	CAL @ 20 PPB	08/30/17 09:30
3M116072.D	CAL @ 500 PPB	08/30/17 09:46
3M116074.D	CAL @ 250 PPB	08/30/17 10:20
3M116076.D	CAL @ 100 PPB	08/30/17 10:54
3M116078.D	CAL @ 50 PPB	08/30/17 11:27
3M116091.D	CAL @ 1 PPB	08/30/17 14:54
3M116092.D	ICV	08/30/17 15:16

Data Path : G:\GcMsData\2017\GCMS_3\Data\08-30-17\
Data File : 3M116065.D
Acq On : 30 Aug 2017 7:56
Operator : SG
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2017\GCMS_3\MethodQt\3M_A0731.M
Title : @GCMS_3,ug,624,8260
Last Update : Mon Jul 31 14:52:13 2017

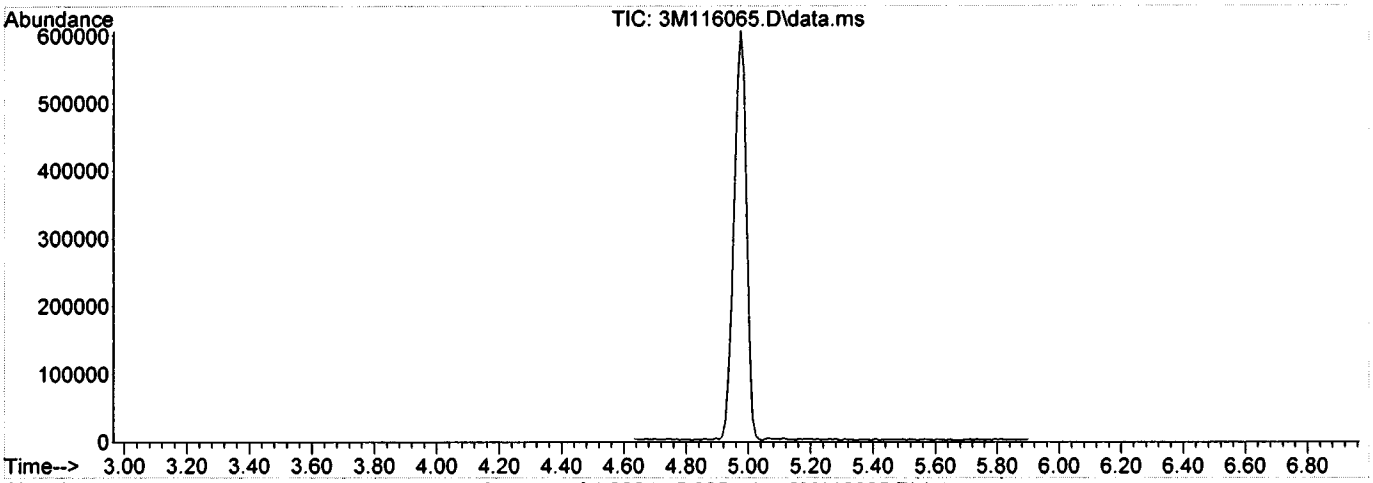

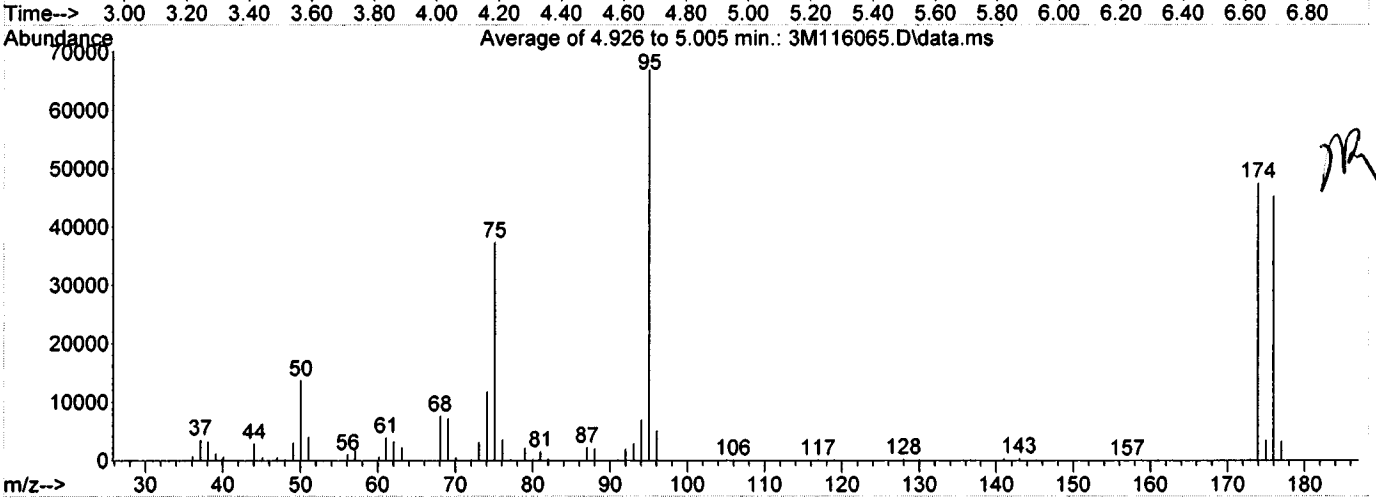

Spectrum Information: Average of 4.926 to 5.005 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.5	13736	PASS
75	95	30	60	55.9	37424	PASS
95	95	100	100	100.0	66989	PASS
96	95	5	9	7.6	5102	PASS
173	174	0.00	2	0.7	311	PASS
174	95	50	100	71.0	47548	PASS
175	174	5	9	7.4	3518	PASS
176	174	95	101	95.3	45310	PASS
177	176	5	9	7.4	3351	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 3

Data File: 3M117845.D
Analysis Date: 10/02/17 07:08
Method: EPA 8260C

Tune Scan/Time Range: Average of 5.039 to 5.049 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	20.9	44880	PASS
75	95	30	60	55.4	118644	PASS
95	95	100	100	100.0	214304	PASS
96	95	5	9	6.3	13531	PASS
173	174	0.00	2	0.4	572	PASS
174	95	50	100	65.0	139196	PASS
175	174	5	9	7.7	10739	PASS
176	174	95	101	98.7	137380	PASS
177	176	5	9	7.3	10068	PASS

Data File	Sample Number	Analysis Date:
3M117846.D	20 PPB	10/02/17 07:27
3M117847.D	CAL @ 20 PPB	10/02/17 07:44
3M117848.D	BLK	10/02/17 08:04
3M117849.D	DAILY BLANK	10/02/17 08:21
3M117850.D	DAILY BLANK	10/02/17 08:38
3M117851.D	AD00297-001(T)	10/02/17 08:59
3M117852.D	AD00298-001(T)	10/02/17 09:16
3M117853.D	AD00319-002(T)	10/02/17 09:32
3M117854.D	MBS64315	10/02/17 09:49
3M117855.D	MBS64316	10/02/17 10:06
3M117856.D	AD00298-001(T:M	10/02/17 10:23
3M117857.D	AD00298-001(T:M	10/02/17 10:40
3M117858.D	EF-1V-264202(093	10/02/17 10:57
3M117859.D	EF-3V-10896(0928	10/02/17 11:13
3M117860.D	EF-3V-10896(0929	10/02/17 11:30
3M117861.D	AD00308-017	10/02/17 11:50
3M117862.D	AD00301-015	10/02/17 12:07
3M117863.D	AD00301-016	10/02/17 12:23
3M117864.D	00295-002	10/02/17 12:40
3M117865.D	AD00308-015	10/02/17 12:57
3M117866.D	AD00311-008	10/02/17 13:14
3M117867.D	AD00311-009	10/02/17 13:30
3M117868.D	AD00311-001	10/02/17 13:47
3M117869.D	AD00311-002	10/02/17 14:04
3M117870.D	AD00311-003	10/02/17 14:21
3M117871.D	AD00311-004	10/02/17 14:37
3M117872.D	AD00311-005	10/02/17 14:54
3M117873.D	AD00311-007	10/02/17 15:11
3M117874.D	AD00311-006	10/02/17 15:28
3M117875.D	AD00308-005	10/02/17 15:44
3M117876.D	AD00308-009	10/02/17 16:01
3M117877.D	AD00277-001	10/02/17 16:18
3M117878.D	BLK	10/02/17 16:34
3M117879.D	AD00311-002	10/02/17 16:51
3M117880.D	AD00311-004	10/02/17 17:08
3M117881.D	AD00311-005	10/02/17 17:25
3M117882.D	AD00311-006	10/02/17 17:41
3M117883.D	AD00311-003	10/02/17 17:58
3M117884.D	AD00311-007	10/02/17 18:12

Data Path : G:\GcMsData\2017\GCMS_3\Data\10-02-17\
Data File : 3M117845.D
Acq On : 2 Oct 2017 7:08
Operator : SG
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2017\GCMS_3\MethodQt\3M_A0830.M
Title : @GCMS_3,ug,624,8260
Last Update : Wed Aug 30 15:24:38 2017

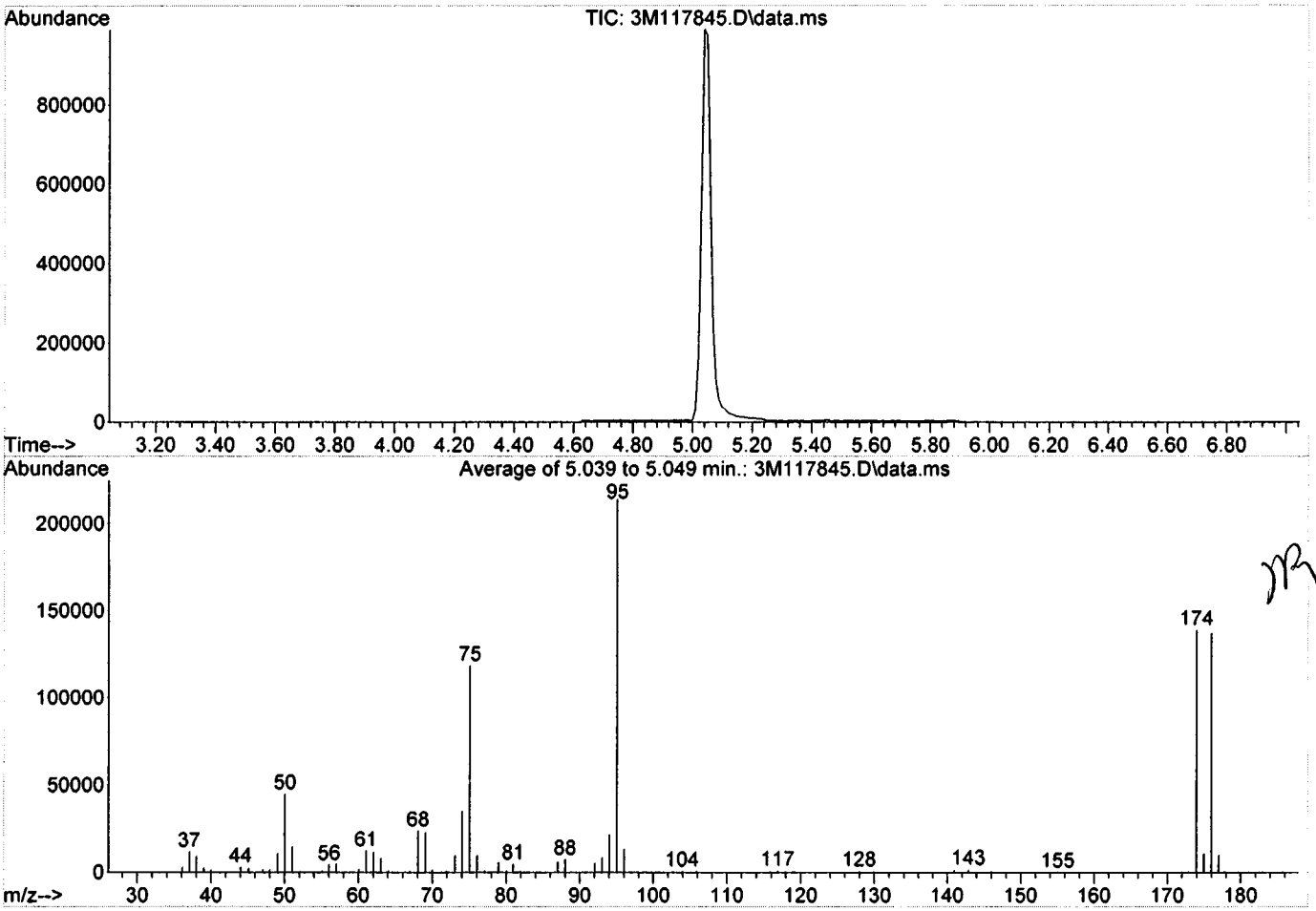

Spectrum Information: Average of 5.039 to 5.049 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.9	44880	PASS
75	95	30	60	55.4	118644	PASS
95	95	100	100	100.0	214304	PASS
96	95	5	9	6.3	13531	PASS
173	174	0.00	2	0.4	572	PASS
174	95	50	100	65.0	139196	PASS
175	174	5	9	7.7	10739	PASS
176	174	95	101	98.7	137380	PASS
177	176	5	9	7.3	10068	PASS

7092827 0059

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3M116071.D	CAL @ 20 PPB	08/30/17 09:30	2	3M116069.D	CAL @ 5 PPB	08/30/17 08:57
3	3M116070.D	CAL @ 10 PPB	08/30/17 09:13	4	3M116078.D	CAL @ 50 PPB	08/30/17 11:27
5	3M116076.D	CAL @ 100 PPB	08/30/17 10:54	6	3M116074.D	CAL @ 250 PPB	08/30/17 10:20
7	3M116072.D	CAL @ 500 PPB	08/30/17 09:46	8	3M116091.D	CAL @ 1 PPB	08/30/17 14:54
9	3M116067.D	CAL @ 0.5 PPB	08/30/17 08:23				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.3531	0.2097	0.3334	0.3556	0.3793	0.3822	----	0.2780	----	0.327	1.58	1.00	1.00	19	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Dichlorodifluorometha	1	0	Qua	0.1005	0.0863	0.0941	0.0984	0.1068	0.1083	0.1106	0.0234	----	0.0911	1.58	1.00	1.00	31	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloromethane	1	0	Avg	0.1631	0.1450	0.1767	0.1610	0.1644	0.1668	0.1733	0.1299	----	0.160	1.73	1.00	1.00	9.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromomethane	1	0	Avg	0.1020	0.0959	0.0956	0.0842	0.0752	----	----	0.1077	----	0.0935	2.12	0.994	0.999	13	0.10 a	20.00	5.00	10.00	50.00	100.0			1.00	
Vinyl Chloride	1	0	Avg	0.1921	0.1666	0.1887	0.1801	0.1844	0.1850	0.1863	0.1466	----	0.179	1.83	1.00	1.00	8.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroethane	1	0	Avg	0.1143	0.0776	0.1133	0.1124	0.1114	0.1005	----	0.0891	----	0.103	2.20	0.998	1.00	14	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Trichlorofluoromethan	1	0	Avg	0.3422	0.3262	0.3476	0.3472	0.3487	0.3312	0.3099	0.2565	----	0.326	2.41	0.999	1.00	9.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl ether	1	0	Avg	0.2148	0.1568	0.1993	0.2189	0.2187	0.2191	0.2017	0.2211	----	0.206	2.63	0.998	1.00	11	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Furan	1	0	Avg	0.3791	0.3139	0.3599	0.3941	0.3902	0.3850	0.3490	0.3530	----	0.366	2.68	0.997	1.00	7.4	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1330	0.1241	0.1360	0.1429	0.1502	0.1416	0.1342	0.1288	----	0.136	2.82	0.999	1.00	6.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methylene Chloride	1	0	Avg	0.2538	0.2111	0.2462	0.2577	0.2635	0.2646	0.2456	0.2964	----	0.255	3.23	0.999	1.00	9.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acrolein	1	0	Avg	0.0391	0.0322	0.0369	0.0418	0.0438	0.0459	0.0413	0.0318	----	0.0392	2.75	0.997	1.00	13		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Acrylonitrile	1	0	Avg	0.0781	0.0653	0.0683	0.0855	0.0873	0.0911	0.0782	0.0670	----	0.0776	3.45	0.994	0.999	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iodomethane	1	0	Avg	0.2232	0.1781	0.2082	0.2225	0.2360	0.2379	0.2242	0.2058	----	0.217	2.97	0.999	1.00	9.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acetone	1	0	Avg	0.0814	0.0602	0.0807	0.0881	0.0879	0.0897	0.0787	0.0899	----	0.0821	2.88	0.996	1.00	12	0.10 a	100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Carbon Disulfide	1	0	Avg	0.4503	0.3433	0.4288	0.4670	0.5034	0.5066	0.4732	0.3631	----	0.442	3.03	0.999	1.00	14	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butyl Alcohol	1	0	Qua	0.0216	0.0173	0.0215	0.0282	0.0302	0.0322	0.0278	0.0217	----	0.0251	3.31	0.994	0.999	21		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
n-Hexane	1	0	Avg	0.0825	0.0663	0.0723	0.0811	0.0920	0.0909	0.0914	0.0858	----	0.0829	3.67	1.00	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Di-isopropyl-ether	1	0	Avg	0.6388	0.4974	0.6027	0.6706	0.6625	0.6633	0.5688	0.6838	----	0.624	3.83	0.994	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethene	1	0	Avg	0.3374	0.2926	0.3225	0.3482	0.3536	0.3459	0.3176	0.1794	----	0.312	2.83	0.998	1.00	18	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl Acetate	1	0	Avg	0.2738	0.2240	0.2692	0.2966	0.2991	0.3106	0.2845	0.2934	----	0.281	3.14	0.998	1.00	9.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl-t-butyl ether	1	0	Avg	0.6642	0.5156	0.6307	0.6912	0.6881	0.6489	0.5318	0.6298	0.6008	0.622	3.45	0.989	1.00	10	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
1,1-Dichloroethane	1	0	Avg	0.4011	0.3301	0.4028	0.4082	0.4217	0.4134	0.3703	0.3842	----	0.392	3.81	0.997	1.00	7.6	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,2-Dichloroethe	1	0	Avg	0.2217	0.1801	0.2173	0.2365	0.2355	0.2280	0.1983	0.1726	----	0.211	3.46	0.995	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl-t-butyl ether	1	0	Avg	0.7748	0.6179	0.7392	0.8182	0.8242	0.7895	0.6714	0.7001	----	0.742	4.09	0.993	1.00	9.9	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,2-Dichloroethene	1	0	Avg	0.4520	0.3585	0.4296	0.4507	0.4526	0.4411	0.3893	0.4739	----	0.431	4.22	0.996	1.00	8.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromochloromethane	1	0	Avg	0.1780	0.1553	0.1764	0.1877	0.1899	0.1836	0.2297	0.2228	----	0.190	4.39	0.991	0.999	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2,2-Dichloropropane	1	0	Avg	0.3372	0.2745	0.3176	0.3235	0.3420	0.3258	0.2779	0.2387	----	0.305	4.23	0.993	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl acetate	1	0	Avg	0.2298	0.1924	0.1928	0.2752	0.2486	0.2688	0.2247	0.1873	----	0.227	4.25	0.992	0.999	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dioxane	1	0	Avg	0.0031	0.0023	0.0031	0.0033	0.0033	0.0033	0.0028	0.0027	----	0.00302	5.40	0.992	1.00	12		1000.	250.0	500.0	2500.	5000.	1250	2500	50.00	
1,1-Dichloropropene	1	0	Avg	0.3025	0.2562	0.2899	0.3098	0.3099	0.2898	0.2448	0.2778	----	0.285	4.65	0.992	1.00	8.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroform	1	0	Avg	0.4938	0.4339	0.4850	0.5017	0.4993	0.4710	0.4213	0.5127	----	0.477	4.43	0.996	1.00	7.0	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromofluoromethan	1	0	Avg	0.2898	0.2937	0.2932	0.2754	0.2773	0.2662	0.2397	0.2906	0.2864	0.279	4.53	-1	-1	6.3		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.1732	0.1418	0.1618	0.1753	0.1900	0.1894	0.1795	0.1153	----	0.166	4.59	0.999	1.00	15	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloroethane-d4	1	0	Avg	0.2177	0.2299	0.2208	0.2056	0.2081	0.1911	0.1801	0.2258	0.2334	0.213	4.76	-1	-1	8.5		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.5132	0.4506	0.5335	0.4943	0.4690	0.4194	0.3338	0.6030	0.5484	0.485	4.80	0.984	1.00	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
2-Butanone	1	0	Avg	0.1352	0.0806	0.1432	0.1612	0.1355	0.1551	0.1456	0.1170	----	0.134	4.24	0.999	0.999	19	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1-Trichloroethane	1	0	Avg	0.4286	0.3531	0.4095	0.4247	0.4274	0.4067	0.3461	0.3707	----	0.396	4.56	0.993	1.00	8.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Carbon Tetrachloride	1	0	Avg	0.3173	0.2750	0.3060	0.3034	0.3082	0.2817	0.2271	0.2779	----	0.287	4.66	0.986	1.00	10	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Acetate	1	0	Avg	0.4435	0.3373	0.4283	0.4659	0.4705	0.4620	0.3977	0.4386	----	0.431	3.82	0.994	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromodichloromethan	1	0	Avg	0.4046	0.3204	0.3766	0.4044	0.4088	0.3986	0.3396	0.3506	----	0.376	5.48	0.993	1.00	9.2	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 12.5
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form 6
Initial Calibration

Method: EPA 8260C

Instrument: GCMS_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3M116071.D	CAL @ 20 PPB	08/30/17 09:30	2	3M116069.D	CAL @ 5 PPB	08/30/17 08:57
3	3M116070.D	CAL @ 10 PPB	08/30/17 09:13	4	3M116078.D	CAL @ 50 PPB	08/30/17 11:27
5	3M116076.D	CAL @ 100 PPB	08/30/17 10:54	6	3M116074.D	CAL @ 250 PPB	08/30/17 10:20
7	3M116072.D	CAL @ 500 PPB	08/30/17 09:46	8	3M116091.D	CAL @ 1 PPB	08/30/17 14:54
9	3M116067.D	CAL @ 0.5 PPB	08/30/17 08:23				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.1299	0.1023	0.1219	0.1335	0.1358	0.1463	0.1352	0.0813	-----	0.123	5.30	0.998	1.00	17	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromomethane	1	0	Avg	0.1971	0.1503	0.1901	0.1967	0.1980	0.1850	0.1549	0.2183	-----	0.186	5.40	0.991	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloropropane	1	0	Avg	0.2184	0.1736	0.2114	0.2244	0.2283	0.2258	0.2051	0.1961	-----	0.210	5.33	0.998	1.00	8.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichloroethene	1	0	Avg	0.2363	0.1962	0.2398	0.2487	0.2536	0.2449	0.2116	0.1860	-----	0.227	5.18	0.994	1.00	11	0.20 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Benzene	1	0	Avg	0.7988	0.6618	0.7732	0.8051	0.8047	0.7357	0.5737	0.7970	0.8635	0.757	4.79	0.982	1.00	12	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.6779	0.5361	0.6498	0.7137	0.7008	0.6468	0.5053	0.5753	-----	0.626	4.83	0.982	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iso-propylacetate	1	0	Avg	0.6679	0.4958	0.6319	0.7345	0.7192	0.6836	0.5801	0.5867	-----	0.638	4.79	0.992	1.00	13	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl methacrylate	1	0	Avg	0.3933	0.2947	0.3655	0.4010	0.4344	0.4079	0.3659	0.3783	-----	0.380	5.36	0.996	1.00	11	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromochloromethan	1	0	Avg	0.3824	0.2990	0.3639	0.3935	0.3991	0.3912	0.3548	0.3226	-----	0.363	6.44	0.997	1.00	10	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chloroethylvinylethe	1	0	Avg	0.2097	0.1757	0.1852	0.2348	0.2350	0.2408	0.2366	0.1590	-----	0.210	5.64	1.00	1.00	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,3-Dichloropropen	1	0	Avg	0.5105	0.3821	0.4788	0.5439	0.5448	0.5484	0.5157	0.4221	-----	0.493	5.75	0.999	1.00	13	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,3-Dichloroprop	1	0	Avg	0.5108	0.3555	0.4923	0.5507	0.5492	0.5370	0.4917	0.3797	-----	0.483	6.07	0.998	1.00	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl methacrylate	1	0	Avg	0.3755	0.2666	0.3647	0.4117	0.3972	0.3987	0.3532	0.3338	-----	0.363	6.08	0.996	1.00	13	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloroethane	1	0	Avg	0.3025	0.2716	0.3004	0.3208	0.3122	0.3153	0.2851	0.3318	-----	0.305	6.19	0.997	1.00	6.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromoethane	1	0	Avg	0.3186	0.2627	0.3179	0.3402	0.3371	0.3360	0.3169	0.3244	-----	0.319	6.53	0.999	1.00	7.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.5316	0.4330	0.5217	0.5557	0.5323	0.5029	0.4357	0.5338	-----	0.506	6.29	0.994	1.00	9.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.3191	0.2464	0.2993	0.3604	0.3640	0.3833	0.3649	0.2368	-----	0.322	5.82	0.999	1.00	18	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Hexanone	1	0	Avg	0.2380	0.1578	0.2289	0.2622	0.2562	0.2603	0.2399	0.1867	-----	0.229	6.31	0.998	1.00	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Tetrachloroethene	1	0	Avg	0.2007	0.1724	0.1882	0.2023	0.1899	0.1823	0.1487	0.1699	-----	0.182	6.29	0.988	1.00	9.8	0.20 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Toluene-d8	1	0	Avg	1.2946	1.3204	1.3162	1.3156	1.2970	1.3413	1.3766	1.3028	1.3230	1.32	5.91	-1	-1	1.9		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.6536	0.5769	0.6517	0.6753	0.6570	0.6397	0.5789	0.6844	-----	0.640	5.96	0.997	1.00	6.3	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.2989	0.2367	0.2882	0.2980	0.2900	0.2564	0.2009	0.3049	-----	0.272	6.85	0.981	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chlorobenzene	1	0	Avg	0.7352	0.6666	0.7516	0.7608	0.7469	0.7155	0.6432	0.7933	-----	0.727	6.81	0.997	1.00	6.9	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butyl acrylate	1	0	Qua	1.7730	1.2091	1.6473	1.9980	1.9464	2.1462	1.9939	1.1407	-----	1.73	7.07	0.999	0.999	22	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Amyl acetate	1	0	Avg	1.4072	0.9853	1.3358	1.5447	1.4771	1.5877	1.4704	1.0975	-----	1.36	7.21	0.999	1.00	16	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromoform	1	0	Avg	0.6566	0.4591	0.5835	0.6868	0.6699	0.7580	0.7183	0.5419	-----	0.634	7.32	0.999	0.999	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethylbenzene	1	0	Avg	0.5416	0.4036	0.5243	0.5775	0.5392	0.5285	0.3971	0.5410	-----	0.507	6.85	0.977	0.999	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.9956	0.7463	0.9615	1.0396	1.0107	1.0786	1.0245	0.8840	-----	0.968	7.56	0.999	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromofluorobenzene	1	0	Avg	1.0726	1.0207	1.0607	1.0792	1.0567	1.1594	1.2344	1.0530	1.0836	1.09	7.50	-1	-1	6.0		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.9030	1.4468	1.8511	1.9457	1.8392	1.8376	1.4491	1.5065	-----	1.72	7.17	0.985	0.999	12	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
m&p-Xylenes	1	0	Avg	0.9217	0.7824	0.9420	0.9584	0.8817	0.8946	0.7150	0.9555	0.8276	0.875	6.92	0.987	0.999	9.6	0.10	40.00	10.00	20.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.9890	0.7445	0.9902	1.0135	0.9348	0.9436	0.7650	0.8720	-----	0.907	7.17	0.988	0.999	11	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.4379	0.2682	0.3982	0.4409	0.4356	0.4740	0.4198	0.2968	-----	0.396	7.59	0.996	0.999	19		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichlorobenzene	1	0	Avg	1.1114	0.8169	1.1202	1.1460	1.0372	1.1207	1.0054	1.1776	-----	1.07	8.20	0.997	0.999	11	0.60	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dichlorobenzene	1	0	Avg	1.1681	0.9111	1.1664	1.1938	1.0901	1.1865	1.0501	1.2909	-----	1.13	8.25	0.996	0.999	10	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichlorobenzene	1	0	Avg	1.1945	0.8686	1.1377	1.1830	1.1022	1.1874	1.0581	1.1466	-----	1.11	8.50	0.997	0.999	9.7	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Isopropylbenzene	1	0	Avg	1.9987	1.5767	1.9572	2.1091	1.8792	2.0768	1.8286	1.6128	-----	1.88	7.38	0.996	0.999	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Qua	0.0485	0.0368	0.0492	0.0541	0.0537	0.0592	0.0562	0.0788	-----	0.0546	7.48	0.999	0.999	22		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Camphene	1	0	Avg	0.6378	0.4252	0.6114	0.6980	0.6184	0.6784	0.5350	0.4753	-----	0.585	7.57	0.985	0.998	17		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichloropropane	1	0	Avg	1.2826	0.9690	1.2210	1.3257	1.2823	1.3349	1.1782	1.1475	-----	1.22	7.60	0.996	1.00	9.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chlorotoluene	1	0	Avg	1.2840	1.0503	1.3009	1.3531	1.1776	1.1184	0.8325	1.1077	-----	1.15	7.72	0.974	0.999	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 12.5
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

7092827 0070

7092827 0071

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3M116071.D	CAL @ 20 PPB	08/30/17 09:30	2	3M116069.D	CAL @ 5 PPB	08/30/17 08:57
3	3M116070.D	CAL @ 10 PPB	08/30/17 09:13	4	3M116078.D	CAL @ 50 PPB	08/30/17 11:27
5	3M116076.D	CAL @ 100 PPB	08/30/17 10:54	6	3M116074.D	CAL @ 250 PPB	08/30/17 10:20
7	3M116072.D	CAL @ 500 PPB	08/30/17 09:46	8	3M116091.D	CAL @ 1 PPB	08/30/17 14:54
9	3M116067.D	CAL @ 0.5 PPB	08/30/17 08:23				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.1459	1.7497	2.2822	2.3141	2.0467	2.1222	1.9103	1.8553	-----	2.05	7.70	0.997	1.00	9.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Chlorotoluene	1	0	Avg	1.4128	1.0498	1.3277	1.3756	1.2451	1.3154	1.0872	1.2415	-----	1.26	7.78	0.991	0.999	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Propylbenzene	1	0	Avg	2.1133	1.5878	2.0600	2.1692	1.8719	2.0608	1.7144	1.6555	-----	1.90	7.63	0.992	0.998	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.8594	1.5783	1.8366	2.1248	1.9743	2.0104	1.7196	1.8763	-----	1.87	7.61	0.994	1.00	9.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3,5-Trimethylbenzen	1	0	Avg	1.5435	1.0736	1.3842	1.4207	1.1915	1.1935	0.8100	1.2921	-----	1.24	7.73	0.956	0.998	18		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	1.1485	0.9188	1.1503	1.2386	1.1470	1.1319	0.9415	0.8802	-----	1.07	7.73	0.991	1.00	13	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.3339	1.0132	1.3318	1.4568	1.2420	1.4081	1.2216	1.0958	-----	1.26	7.95	0.995	0.999	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.8226	1.3245	1.7748	1.8479	1.6252	1.8200	1.5173	1.3651	-----	1.64	7.97	0.992	0.998	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	1.5524	1.0827	1.4564	1.6163	1.4064	1.6486	1.4371	1.1705	-----	1.42	8.08	0.995	0.998	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	1.3648	0.9230	1.3145	1.4135	1.2159	1.4232	1.1975	1.2258	-----	1.26	8.16	0.992	0.998	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	1.5134	1.0150	1.4434	1.6175	1.3919	1.5953	1.3586	1.1910	-----	1.39	8.43	0.994	0.998	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.8774	0.5458	0.7932	0.8966	0.7741	0.9092	0.7641	0.6292	-----	0.774	8.41	0.992	0.998	17		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4,5-Tetramethylbe	1	0	Avg	1.3685	0.8160	1.2821	1.2942	1.1749	1.4789	1.0222	0.9824	-----	1.18	8.92	0.963	0.992	19		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromo-3-Chloro	1	0	Qua	0.1966	0.1312	0.1792	0.2137	0.2185	0.2533	0.2540	0.1443	-----	0.199	9.01	0.999	0.999	23	0.05	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Camphor	1	0	Qua	0.1002	0.0609	0.0920	0.1080	0.1065	0.1142	0.1031	0.0642	0.0717	0.0912	9.49	0.998	0.999	22		200.0	50.00	100.0	500.0	1000.	2500.	5000.	10.00	5.00
Hexachlorobutadiene	1	0	Qua	0.2579	0.1813	0.2602	0.3633	0.2870	0.3036	0.2496	0.6205	-----	0.315	9.64	0.989	0.999	42		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trichlorobenzen	1	0	Avg	0.5387	0.3230	0.5233	0.5630	0.4944	0.5772	0.4813	0.5457	-----	0.506	9.55	0.992	0.998	16	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichlorobenzen	1	0	Avg	0.4836	0.3246	0.4801	0.5323	0.4769	0.5583	0.4509	0.5264	-----	0.479	9.90	0.988	0.997	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Naphthalene	1	0	Avg	1.6370	1.0211	1.4730	1.6344	1.5313	1.8257	1.3774	1.3943	-----	1.49	9.73	0.979	0.995	16		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 12.5
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 3M117847.D **Instrument:** GCMS 3

Cont Calibration Date/Time 10/2/2017 7:44:00 A Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	4.94	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.58	15.07	20	20	0.1	0.327	0.247	24.65	C1
Dichlorodifluoromethane	1	0		1.58	36.44	20	20	0.1	0.091	0.192	82.20	C1
Chloromethane	1	0		1.73	26.77	20	20	0.1	0.160	0.214	33.87	C1
Bromomethane	1	0		2.10	19.77	20	20	0.1	0.093	0.092	1.14	
Vinyl Chloride	1	0		1.81	22.25	20	20	0.1	0.179	0.199	11.25	
Chloroethane	1	0		2.18	22.31	20	20	0.1	0.103	0.115	11.54	
Trichlorofluoromethane	1	0		2.39	23.49	20	20	0.1	0.326	0.383	17.44	
Ethyl ether	1	0		2.62	22.93	20	20	0.5	0.206	0.237	14.67	
Furan	1	0		2.66	23.49	20	20	0.5	0.366	0.429	17.47	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.80	23.66	20	20	0.1	0.136	0.161	18.32	
Methylene Chloride	1	0		3.22	21.44	20	20	0.1	0.255	0.273	7.19	
Acrolein	1	0		2.74	99.71	100	20		0.039	0.039	0.29	
Acrylonitrile	1	0		3.43	23.27	20	20		0.078	0.090	16.37	
Iodomethane	1	0		2.96	18.05	20	20		0.217	0.196	9.73	
Acetone	1	0		2.86	114.95	100	20	0.1	0.082	0.094	14.95	
Carbon Disulfide	1	0		3.01	19.55	20	20	0.1	0.442	0.432	2.26	
t-Butyl Alcohol	1	0		3.29	80.17	100	20		0.025	0.027	19.83	
n-Hexane	1	0		3.65	25.49	20	20		0.083	0.106	27.46	C1
Di-isopropyl-ether	1	0		3.81	23.64	20	20		0.624	0.737	18.18	
1,1-Dichloroethene	1	0		2.81	23.07	20	20	0.1	0.312	0.360	15.37	
Methyl Acetate	1	0		3.12	22.74	20	20	0.1	0.281	0.320	13.69	
Methyl-t-butyl ether	1	0		3.43	23.85	20	20	0.1	0.622	0.742	19.23	
1,1-Dichloroethane	1	0		3.79	22.69	20	20	0.2	0.392	0.444	13.43	
trans-1,2-Dichloroethene	1	0		3.44	23.11	20	20	0.1	0.211	0.244	15.56	
Ethyl-t-butyl ether	1	0		4.08	23.99	20	20	0.5	0.742	0.890	19.97	
cis-1,2-Dichloroethene	1	0		4.21	23.96	20	20	0.1	0.431	0.516	19.81	
Bromochloromethane	1	0		4.37	23.18	20	20		0.190	0.221	15.90	
2,2-Dichloropropane	1	0		4.21	28.24	20	20		0.305	0.430	41.18	C1
Ethyl acetate	1	0		4.23	19.07	20	20		0.227	0.217	4.67	
1,4-Dioxane	1	0		5.38	1122.96	1000	20		0.003	0.003	12.30	
1,1-Dichloropropene	1	0		4.64	23.85	20	20		0.285	0.340	19.25	
Chloroform	1	0		4.41	23.20	20	20	0.2	0.477	0.554	16.02	
Dibromofluoromethane	1	0	S	4.52	32.72	30	**		0.279	0.305	9.06	
Cyclohexane	1	0		4.57	25.44	20	20	0.1	0.166	0.211	27.19	C1
1,2-Dichloroethane-d4	1	0	S	4.74	32.87	30	**		0.213	0.233	9.58	
1,2-Dichloroethane	1	0		4.78	23.50	20	20	0.1	0.485	0.570	17.52	
2-Butanone	1	0		4.22	20.13	20	20	0.1	0.134	0.135	0.65	
1,1,1-Trichloroethane	1	0		4.54	22.59	20	20	0.1	0.396	0.447	12.94	
Carbon Tetrachloride	1	0		4.65	23.64	20	20	0.1	0.287	0.339	18.21	
Vinyl Acetate	1	0		3.81	23.92	20	20		0.431	0.515	19.58	
Bromodichloromethane	1	0		5.47	23.50	20	20	0.2	0.376	0.441	17.50	
Methylcyclohexane	1	0		5.28	24.70	20	20	0.1	0.123	0.152	23.50	C1
Dibromomethane	1	0		5.39	21.38	20	20		0.186	0.199	6.91	
1,2-Dichloropropane	1	0		5.31	23.95	20	20	0.1	0.210	0.252	19.77	
Trichloroethene	1	0		5.16	21.67	20	20	0.2	0.227	0.246	8.35	
Benzene	1	0		4.78	23.44	20	20	0.5	0.757	0.887	17.21	
tert-Amyl methyl ether	1	0		4.81	23.63	20	20		0.626	0.739	18.14	
Chlorobenzene-d5	1	0	I	6.77	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.77	20.35	20	20	0.5	0.638	0.649	1.75	
Methyl methacrylate	1	0		5.34	20.62	20	20	0.5	0.380	0.392	3.12	
Dibromochloromethane	1	0		6.42	18.49	20	20	0.1	0.363	0.336	7.53	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 3M117847.D **Instrument:** GCMS 3

Cont Calibration Date/Time 10/2/2017 7:44:00 A Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.62	18.16	20	20		0.210	0.190	9.19	
cis-1,3-Dichloropropene	1	0		5.73	19.20	20	20	0.2	0.493	0.474	3.99	
trans-1,3-Dichloropropene	1	0		6.05	19.91	20	20	0.1	0.483	0.481	0.44	
Ethyl methacrylate	1	0		6.07	20.58	20	20	0.5	0.363	0.373	2.89	
1,1,2-Trichloroethane	1	0		6.17	18.85	20	20	0.1	0.305	0.287	5.76	
1,2-Dibromoethane	1	0		6.51	18.14	20	20	0.1	0.319	0.290	9.32	
1,3-Dichloropropane	1	0		6.28	19.79	20	20		0.506	0.501	1.04	
4-Methyl-2-Pentanone	1	0		5.81	19.53	20	20	0.1	0.322	0.314	2.36	
2-Hexanone	1	0		6.29	19.67	20	20	0.1	0.229	0.225	1.67	
Tetrachloroethene	1	0		6.27	19.28	20	20	0.2	0.182	0.175	3.59	
Toluene-d8	1	0	S	5.90	27.49	30	**		1.321	1.211	8.35	
Toluene	1	0		5.94	18.46	20	20	0.4	0.640	0.591	7.69	
1,1,1,2-Tetrachloroethane	1	0		6.83	19.37	20	20		0.272	0.263	3.14	
Chlorobenzene	1	0		6.79	18.62	20	20	0.5	0.727	0.676	6.91	
1,4-Dichlorobenzene-d4	1	0	I	8.21	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.05	17.27	20	20	0.5	1.732	1.863	13.64	
n-Amyl acetate	1	0		7.19	17.72	20	20	0.5	1.363	1.208	11.40	
Bromoform	1	0		7.30	14.57	20	20	0.1	0.634	0.462	27.14	C1
Ethylbenzene	1	0		6.83	17.26	20	20	0.1	0.507	0.437	13.71	
1,1,2,2-Tetrachloroethane	1	0		7.54	16.81	20	20	0.1	0.968	0.813	15.95	
Bromofluorobenzene	1	0	S	7.48	27.42	30	**		1.091	0.997	8.60	
Styrene	1	0		7.16	17.32	20	20	0.3	1.722	1.492	13.39	
m&p-Xylenes	1	0		6.90	34.28	40	20	0.1	0.875	0.750	14.29	
o-Xylene	1	0		7.15	17.41	20	20	0.3	0.907	0.789	12.94	
trans-1,4-Dichloro-2-butene	1	0		7.57	19.29	20	20		0.396	0.382	3.55	
1,3-Dichlorobenzene	1	0		8.18	16.27	20	20	0.6	1.067	0.868	18.64	
1,4-Dichlorobenzene	1	0		8.23	15.59	20	20	0.5	1.132	0.883	22.03	C1
1,2-Dichlorobenzene	1	0		8.48	15.58	20	20	0.4	1.110	0.865	22.10	C1
Isopropylbenzene	1	0		7.36	16.26	20	20	0.1	1.880	1.529	18.69	
Cyclohexanone	1	0		7.46	134.35	100	20		0.055	0.079	34.35	C1
Camphene	1	0		7.55	17.79	20	20		0.585	0.520	11.04	
1,2,3-Trichloropropane	1	0		7.59	16.77	20	20		1.218	1.021	16.13	
2-Chlorotoluene	1	0		7.70	18.72	20	20		1.153	1.079	6.39	
p-Ethyltoluene	1	0		7.68	16.89	20	20		2.053	1.734	15.53	
4-Chlorotoluene	1	0		7.76	18.16	20	20		1.257	1.141	9.22	
n-Propylbenzene	1	0		7.61	17.12	20	20		1.904	1.630	14.40	
Bromobenzene	1	0		7.60	18.26	20	20		1.873	1.710	8.70	
1,3,5-Trimethylbenzene	1	0		7.71	17.66	20	20		1.239	1.094	11.70	
Butyl methacrylate	1	0		7.71	19.71	20	20	0.5	1.070	1.054	1.43	
t-Butylbenzene	1	0		7.93	15.99	20	20		1.263	1.010	20.04	
1,2,4-Trimethylbenzene	1	0		7.96	16.69	20	20		1.637	1.367	16.53	
sec-Butylbenzene	1	0		8.06	16.15	20	20		1.421	1.147	19.27	
4-Isopropyltoluene	1	0		8.14	15.41	20	20		1.260	0.971	22.93	C1
n-Butylbenzene	1	0		8.41	16.80	20	20		1.391	1.168	16.01	
p-Diethylbenzene	1	0		8.39	16.22	20	20		0.774	0.627	18.92	
1,2,4,5-Tetramethylbenzene	1	0		8.91	16.95	20	20		1.177	0.998	15.24	
1,2-Dibromo-3-Chloropropane	1	0		8.99	10.36	20	20	0.05	0.199	0.122	48.22	C1
Camphor	1	0		9.48	128.79	200	20		0.091	0.076	35.60	C1
Hexachlorobutadiene	1	0		9.61	10.47	20	20		0.315	0.177	47.66	C1
1,2,4-Trichlorobenzene	1	0		9.53	14.84	20	20	0.2	0.506	0.375	25.81	C1
1,2,3-Trichlorobenzene	1	0		9.87	13.25	20	20		0.479	0.317	33.76	C1
Naphthalene	1	0		9.72	14.65	20	20		1.487	1.089	26.74	C1

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

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FORM8

Internal Standard Areas

Evaluation Std Data File: 3M116071.D Method: EPA 8260C

Analysis Date/Time: 08/30/17 09:30

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	364306	4.96	273923	6.80	105153	8.24								
Eval File Area Limit:	182153-728612		136962-547846		52576-210306									
Eval File Rt Limit:	4.46-5.46		6.3-7.3		7.74-8.74									

Data File	Sample						
3M116066.D	BLK	353021	4.96	274151	6.79	106563	8.23
3M116067.D	CAL @ 0.5 PPB	336206	4.96	259608	6.80	96458	8.24
3M116068.D	1 PPB	357134	4.96	263337	6.80	107813	8.23
3M116069.D	CAL @ 5 PPB	369383	4.96	267997	6.80	109499	8.24
3M116070.D	CAL @ 10 PPB	362525	4.96	266489	6.80	103754	8.24
3M116071.D	CAL @ 20 PPB	364306	4.96	273923	6.80	105153	8.24
3M116072.D	CAL @ 500 PPB	376570	4.96	267343	6.80	91959	8.24
3M116074.D	CAL @ 250 PPB	382080	4.96	290851	6.80	105324	8.24
3M116076.D	CAL @ 100 PPB	393642	4.96	301549	6.80	120814	8.24
3M116078.D	CAL @ 50 PPB	399843	4.96	295879	6.80	114444	8.24
3M116091.D	CAL @ 1 PPB	353172	4.96	261085	6.80	102692	8.24
3M116092.D	ICV	344812	4.96	263983	6.80	97855	8.24

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 3M117847.D Method: EPA 8260C

Analysis Date/Time: 10/02/17 07:44

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	329680	4.94	302353	6.77	134029	8.21								
Eval File Area Limit:	164840-659360		151176-604706		67014-268058									
Eval File Rt Limit:	4.44-5.44		6.27-7.27		7.71-8.71									

Data File	Sample						
3M117846.D	20 PPB	333888	4.93	306713	6.77	127979	8.21
3M117848.D	BLK	314942	4.93	291671	6.77	114826	8.21
3M117849.D	DAILY BLANK	289557	4.93	268254	6.77	115278	8.21
3M117850.D	DAILY BLANK	294126	4.93	276144	6.77	114800	8.21
3M117851.D	AD00297-001(T)	267390	4.93	249852	6.77	95983	8.21
3M117852.D	AD00298-001(T)	267821	4.93	243367	6.77	102317	8.21
3M117853.D	AD00319-002(T)	294417	4.93	263189	6.77	115767	8.21
3M117854.D	MBS64315	285460	4.93	274612	6.77	116376	8.21
3M117855.D	MBS64316	282470	4.94	265249	6.77	116506	8.21
3M117856.D	AD00298-001(T:MS)	308338	4.93	299919	6.77	128143	8.21
3M117857.D	AD00298-001(T:MSD)	281025	4.93	271404	6.77	117379	8.21
3M117858.D	EF-1V-264202(093017	293549	4.93	269102	6.77	114493	8.21
3M117859.D	EF-3V-10896(092817)	287283	4.93	268289	6.77	115211	8.21
3M117860.D	EF-3V-10896(092917)	206726	4.93	193741	6.77	83822	8.21
3M117861.D	AD00308-017	268379	4.94	247753	6.77	95780	8.21
3M117862.D	AD00301-015	298146	4.94	277127	6.77	116122	8.21
3M117863.D	AD00301-016	250623	4.94	238465	6.77	101582	8.21
3M117864.D	00295-002	257904	4.93	240765	6.77	97806	8.21
3M117865.D	AD00308-015	268267	4.93	253681	6.77	101980	8.21
3M117866.D	AD00311-008	268108	4.94	260054	6.77	108630	8.21
3M117867.D	AD00311-009	255510	4.94	239794	6.77	98326	8.21
3M117868.D	AD00311-001	263293	4.93	249001	6.77	103471	8.21
3M117869.D	AD00311-002	250411	4.94	231165	6.77	96142	8.21
3M117870.D	AD00311-003	281200	4.94	266660	6.77	110496	8.21
3M117871.D	AD00311-004	243642	4.94	239419	6.77	96014	8.21
3M117872.D	AD00311-005	240751	4.94	230035	6.77	98097	8.21
3M117873.D	AD00311-007	263460	4.94	250238	6.77	108361	8.21
3M117874.D	AD00311-006	243578	4.93	229372	6.77	94926	8.21
3M117875.D	AD00308-005	243987	4.94	228505	6.77	96320	8.21
3M117876.D	AD00308-009	245721	4.94	233333	6.77	101485	8.21
3M117877.D	AD00277-001	255181	4.94	247021	6.77	109395	8.21
3M117878.D	BLK	250532	4.94	244722	6.77	105563	8.21

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

7092827 0076

FORM8

Internal Standard Areas

Evaluation Std Data File: 3M117847.D Method: EPA 8260C

Analysis Date/Time: 10/02/17 07:44

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	329680	4.94	302353	6.77	134029	8.21								
Eval File Area Limit:	164840-659360		151176-604706		67014-268058									
Eval File Rt Limit:	4.44-5.44		6.27-7.27		7.71-8.71									

Data File	Sample						
3M117879.D	AD00311-002	250470	4.94	243400	6.77	105963	8.21
3M117880.D	AD00311-004	269216	4.93	257447	6.77	111679	8.21
3M117881.D	AD00311-005	270076	4.94	257810	6.77	113197	8.21
3M117882.D	AD00311-006	269796	4.94	263173	6.77	111231	8.21
3M117883.D	AD00311-003	253185	4.94	242366	6.77	103293	8.21
3M117884.D	AD00311-007	264953	4.94	255959	6.77	110200	8.21

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

Base Neutral/Acid Extractable Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD00298-002(5X)(R)
Client Id: 475 EXTERIOR NYRECYC
Data File: 7M87023.D
Analysis Date: 10/04/17 15:12
Date Rec/Extracted: 09/28/17-10/04/17
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 5
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-95-4	2,4,5-Trichlorophenol	0.18	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.18**	**0.69**
120-83-2	2,4-Dichlorophenol	0.045	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.18**	**0.35**
51-28-5	2,4-Dinitrophenol	0.91	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.18	U
606-20-2	2,6-Dinitrotoluene	0.18	U	85-68-7	Butylbenzylphthalate	0.18	U
95-57-8	2-Chlorophenol	0.18	U	**218-01-9**	**Chrysene**	**0.18**	**0.93**
91-57-6	2-Methylnaphthalene	0.18	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.18**	**0.20**
95-48-7	2-Methylphenol	0.045	U	132-64-9	Dibenzofuran	0.045	U
88-74-4	2-Nitroaniline	0.18	U	84-66-2	Diethylphthalate	0.18	U
88-75-5	2-Nitrophenol	0.18	U	131-11-3	Dimethylphthalate	0.18	U
106-44-5	3&4-Methylphenol	0.045	U	84-74-2	Di-n-butylphthalate	0.045	U
91-94-1	3,3'-Dichlorobenzidine	0.18	U	117-84-0	Di-n-octylphthalate	0.18	U
99-09-2	3-Nitroaniline	0.18	U	**206-44-0**	**Fluoranthene**	**0.18**	**1.5**
59-50-7	4-Chloro-3-methylphenol	0.18	U	86-73-7	Fluorene	0.18	U
106-47-8	4-Chloroaniline	0.045	U	118-74-1	Hexachlorobenzene	0.18	U
100-02-7	4-Nitrophenol	0.18	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.18**	**0.62**
83-32-9	Acenaphthene	0.18	U	78-59-1	Isophorone	0.18	U
208-96-8	Acenaphthylene	0.18	U	91-20-3	Naphthalene	0.045	U
62-53-3	Aniline	0.045	U	98-95-3	Nitrobenzene	0.18	U
120-12-7	**Anthracene**	**0.18**	**0.24**	87-86-5	Pentachlorophenol	0.91	U
56-55-3	**Benzo[a]anthracene**	**0.18**	**0.95**	**85-01-8**	**Phenanthrene**	**0.18**	**0.61**
50-32-8	**Benzo[a]pyrene**	**0.18**	**0.94**	108-95-2	Phenol	0.18	U
205-99-2	**Benzo[b]fluoranthene**	**0.18**	**1.2**	**129-00-0**	**Pyrene**	**0.18**	**1.7**

Worksheet #: 439254 *Total Target Concentration* 9.9 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

7092827 0079

SampleID : AD00298-002(5X)(R) Operator : AH/JB Qt Meth : 7M_0911.M
Data File: 7M87023.D Sam Mult : 1 Vial# : 17 Qt On : 10/04/17 15:29
Acq On : 10/ 4/17 15:12 Misc : S,BNA:5 Qt Upd On: 09/11/17 15:53

Data Path : G:\GcMsData\2017\GCMS_7\Data\10-04-17\
Qt Path : G:\GCMSDATA\2017\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.658	96	26606	40.00	ng	-0.01
21) 1,4-Dichlorobenzene-d4	5.879	152	61959	40.00	ng	0.00
31) Naphthalene-d8	6.889	136	248060	40.00	ng	-0.01
50) Acenaphthene-d10	8.321	164	158164	40.00	ng	-0.02
77) Phenanthrene-d10	9.784	188	262066	40.00	ng	-0.01
91) Chrysene-d12	12.840	240	251270	40.00	ng	0.00
103) Perylene-d12	14.480	264	253946	40.00	ng	-0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.698	112	26093	14.90	ng	0.01
Spiked Amount 100.000			Recovery = 14.90%			
16) Phenol-d5	5.575	99	36379	15.07	ng	0.00
Spiked Amount 100.000			Recovery = 15.07%			
32) Nitrobenzene-d5	6.328	128	6631	6.20	ng	0.00
Spiked Amount 50.000			Recovery = 12.40%			
55) 2-Fluorobiphenyl	7.728	172	37403	7.13	ng	-0.02
Spiked Amount 50.000			Recovery = 14.26%			
80) 2,4,6-Tribromophenol	9.063	330	8610	12.90	ng	0.00
Spiked Amount 100.000			Recovery = 12.90%			
94) Terphenyl-d14	11.585	244	30360	8.14	ng	0.00
Spiked Amount 50.000			Recovery = 16.28%			
Target Compounds						Qvalue
86) Phenanthrene	9.811	178	49209	6.7345	ng	98
87) Anthracene	9.864	178	19070	2.6300	ng	96
90) Fluoranthene	11.141	202	140787	17.0777	ng	93
92) Pyrene	11.408	202	130475	19.1437	ng	88
100) Benzo[a]anthracene	12.829	228	73885	10.5063	ng	97
101) Chrysene	12.872	228	67599	10.2675	ng	97
105) Benzo[b]fluoranthene	14.053	252	106150m	13.7889	ng	
106) Benzo[k]fluoranthene	14.079	252	28786m	3.8884	ng	
107) Benzo[a]pyrene	14.416	252	73612	10.3263	ng	90
108) Indeno[1,2,3-cd]pyrene	15.826	276	49690	6.8006	ng	75
109) Dibenzo[a,h]anthracene	15.832	278	13764	2.2307	ng	85
110) Benzo[g,h,i]perylene	16.211	276	46107	7.6481	ng	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed

lce

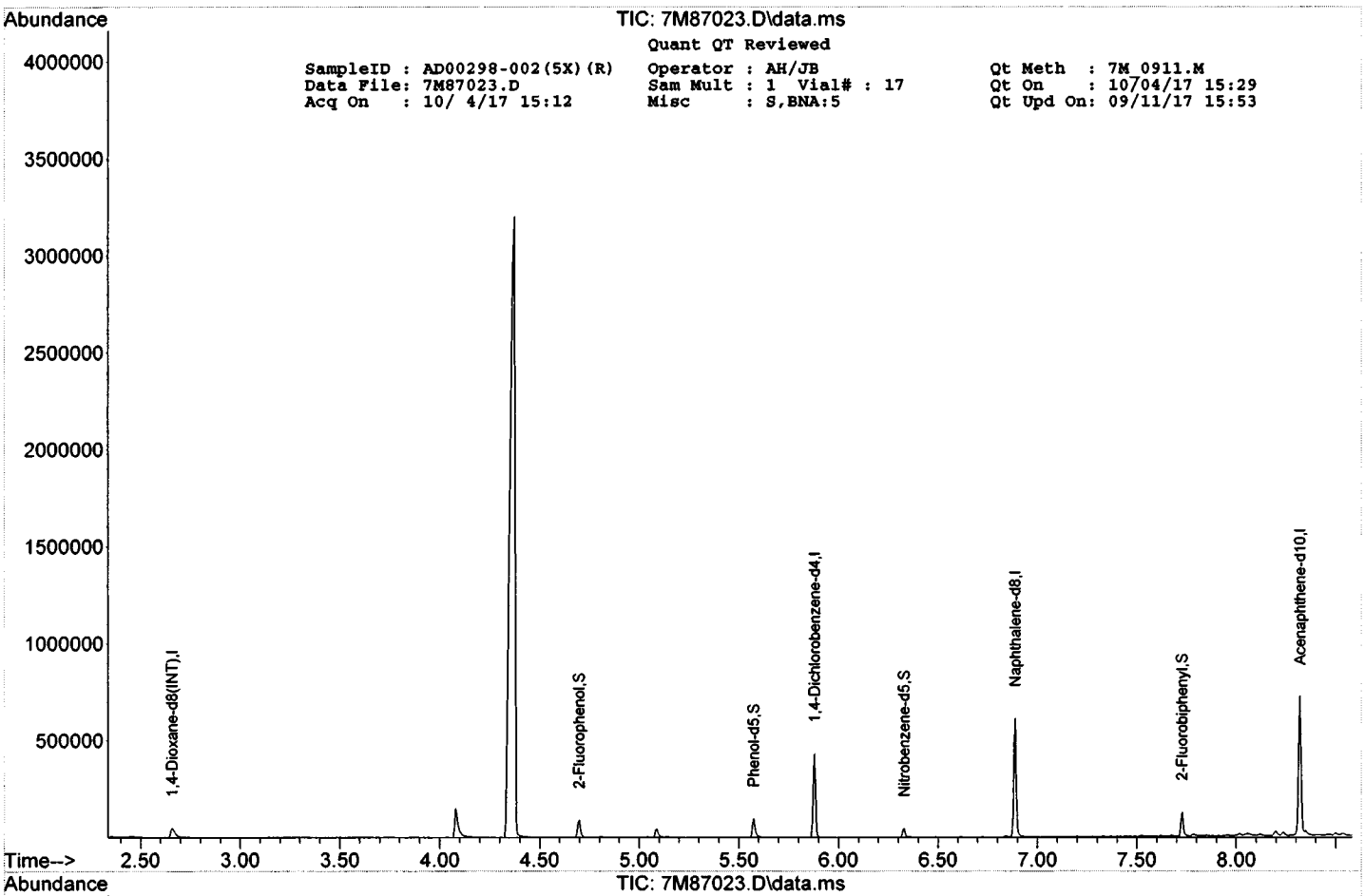
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TIC: 7M87023.D\data.ms
Quant QT Reviewed
SampleID : AD00298-002(5X)(R)
Data File: 7M87023.D
Acq On : 10/ 4/17 15:12
Operator : AH/JB
Sam Mult : 1 Vial# : 17
Misc : S,BNA:5
Qt Meth : 7M_0911.M
Qt On : 10/04/17 15:29
Qt Upd On: 09/11/17 15:53
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Time-->

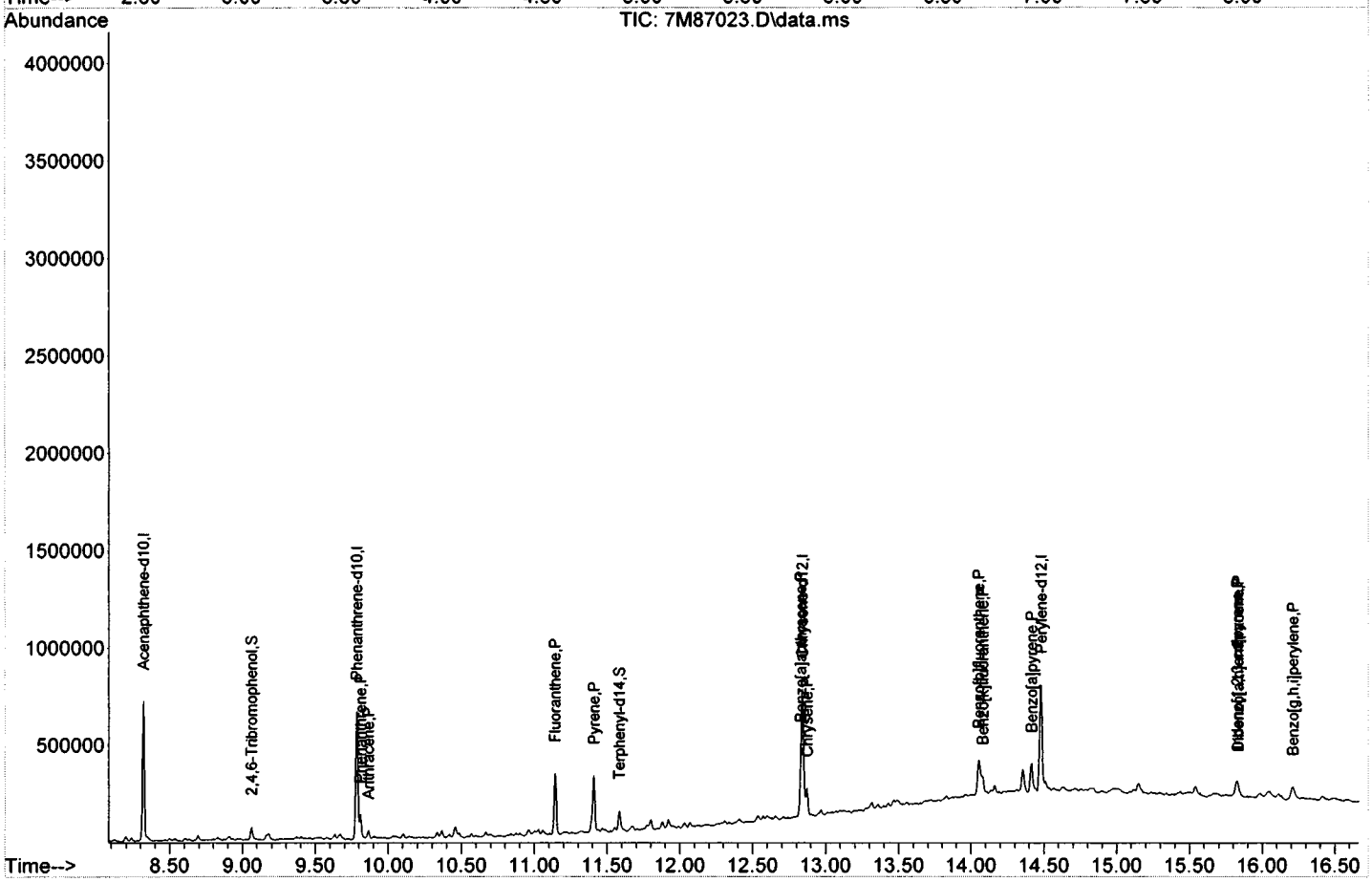
Abundance
TIC: 7M87023.D\data.ms
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB63067
Client Id:
Data File: 7M87029.D
Analysis Date: 10/04/17 17:58
Date Rec/Extracted: NA-10/04/17
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-95-4	2,4,5-Trichlorophenol	0.033	U	191-24-2	Benzo[g,h,i]perylene	0.033	U
120-83-2	2,4-Dichlorophenol	0.0083	U	207-08-9	Benzo[k]fluoranthene	0.033	U
51-28-5	2,4-Dinitrophenol	0.17	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	85-68-7	Butylbenzylphthalate	0.033	U
95-57-8	2-Chlorophenol	0.033	U	218-01-9	Chrysene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
95-48-7	2-Methylphenol	0.0083	U	132-64-9	Dibenzofuran	0.0083	U
88-74-4	2-Nitroaniline	0.033	U	84-66-2	Diethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	131-11-3	Dimethylphthalate	0.033	U
106-44-5	3&4-Methylphenol	0.0083	U	84-74-2	Di-n-butylphthalate	0.0083	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	117-84-0	Di-n-octylphthalate	0.033	U
99-09-2	3-Nitroaniline	0.033	U	206-44-0	Fluoranthene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	86-73-7	Fluorene	0.033	U
106-47-8	4-Chloroaniline	0.0083	U	118-74-1	Hexachlorobenzene	0.033	U
100-02-7	4-Nitrophenol	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
83-32-9	Acenaphthene	0.033	U	78-59-1	Isophorone	0.033	U
208-96-8	Acenaphthylene	0.033	U	91-20-3	Naphthalene	0.0083	U
62-53-3	Aniline	0.0083	U	98-95-3	Nitrobenzene	0.033	U
120-12-7	Anthracene	0.033	U	87-86-5	Pentachlorophenol	0.17	U
56-55-3	Benzo[a]anthracene	0.033	U	85-01-8	Phenanthrene	0.033	U
50-32-8	Benzo[a]pyrene	0.033	U	108-95-2	Phenol	0.033	U
205-99-2	Benzo[b]fluoranthene	0.033	U	129-00-0	Pyrene	0.033	U

Worksheet #: 439254

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

7092827 0082

SampleID : SMB63067 Operator : AH/JB Qt Meth : 7M_0911.M
Data File: 7M87029.D Sam Mult : 1 Vial# : 23 Qt On : 10/05/17 09:12
Acq On : 10/ 4/17 17:58 Misc : S,BNA Qt Upd On: 09/11/17 15:53

Data Path : G:\GcMsData\2017\GCMS_7\Data\10-0417\
Qt Path : G:\GCMSDATA\2017\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.652	96	17090	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.879	152	40852	40.00	ng	0.00
31) Naphthalene-d8	6.884	136	165593	40.00	ng	-0.02
50) Acenaphthene-d10	8.321	164	115584	40.00	ng	-0.02
77) Phenanthrene-d10	9.784	188	218795	40.00	ng	-0.01
91) Chrysene-d12	12.840	240	264833	40.00	ng	0.00
103) Perylene-d12	14.470	264	241614	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.699	112	95209	84.67	ng	0.01
Spiked Amount 100.000			Recovery = 84.67%			
16) Phenol-d5	5.575	99	137397	88.61	ng	0.00
Spiked Amount 100.000			Recovery = 88.61%			
32) Nitrobenzene-d5	6.328	128	25712	35.99	ng	0.00
Spiked Amount 50.000			Recovery = 71.98%			
55) 2-Fluorobiphenyl	7.728	172	131837	34.40	ng	-0.02
Spiked Amount 50.000			Recovery = 68.80%			
80) 2,4,6-Tribromophenol	9.063	330	42103	72.35	ng	0.00
Spiked Amount 100.000			Recovery = 72.35%			
94) Terphenyl-d14	11.585	244	166451	42.33	ng	0.00
Spiked Amount 50.000			Recovery = 84.66%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

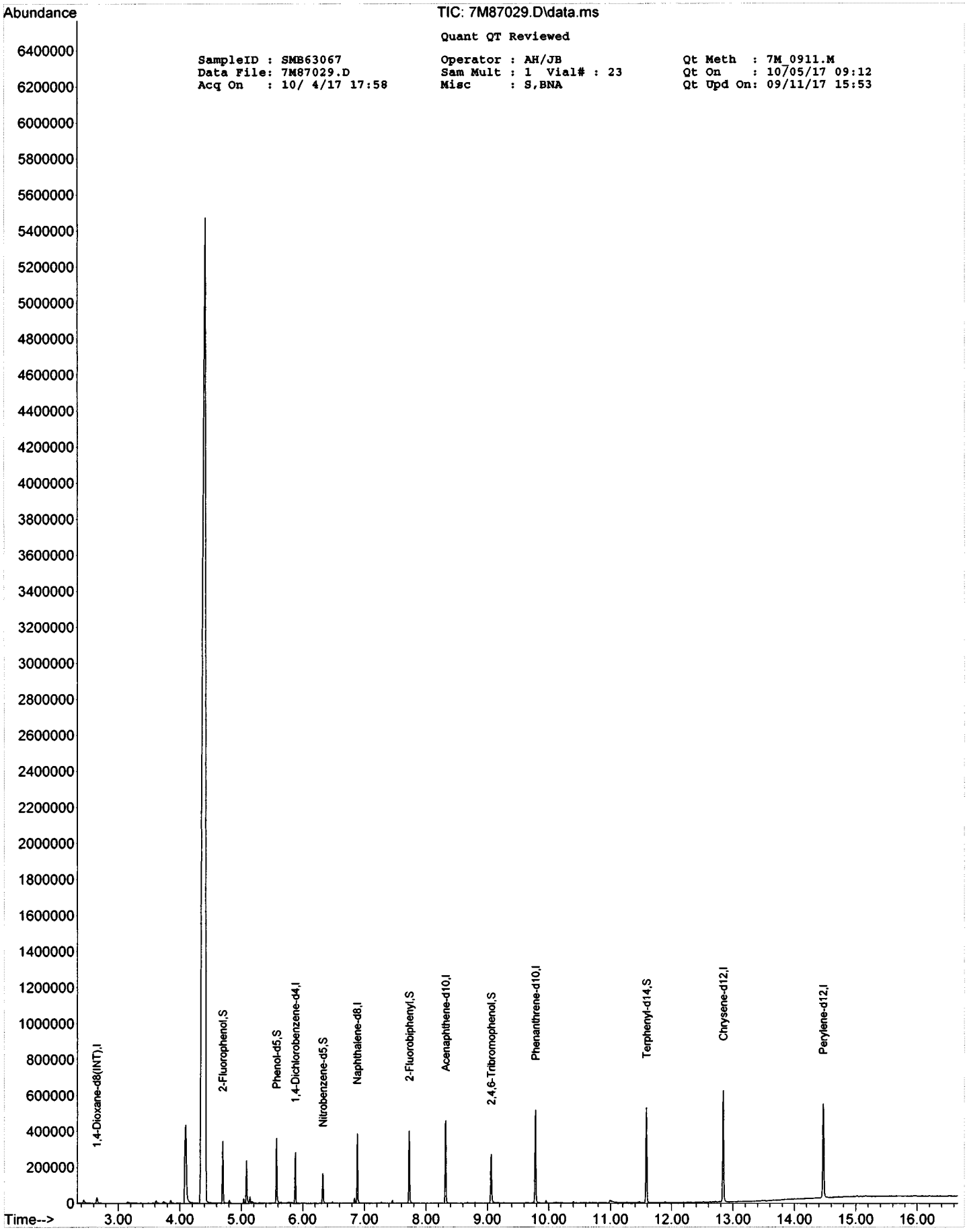
Abundance
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Quant QT Reviewed
SampleID : SMB63067
Data File: 7M87029.D
Acq On : 10/ 4/17 17:58
Operator : AH/JB
Sam Mult : 1 Vial# : 23
Misc : S,BNA
Qt Meth : 7M_0911.M
Qt On : 10/05/17 09:12
Qt Upd On: 09/11/17 15:53
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8270D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
7M87029.D	SMB63067	S	10/04/17 17:58	1		85	89	72	69	72	85
7M87023.D	AD00298-002(5X)(R)	S	10/04/17 15:12	5		75	75	62	71	64	81
10M65319.D	AD00192-002	S	10/04/17 10:14	1		69	65	69	69	64	79
10M65320.D	AD00192-002(MS)	S	10/04/17 10:36	1		75	70	75	77	70	85
10M65321.D	AD00192-002(MSD)	S	10/04/17 10:58	1		63	60	63	62	67	71
7M86988.D	SMB63050(MS)	S	10/03/17 16:42	1		77	75	77	77	94	88
7M87026.D	SMB63067(MS)	S	10/04/17 16:48	1		96	99	80	80	101	91

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	43-128
S2=Phenol-d5	100	49-129
S3=Nitrobenzene-d5	50	52-129
S4=2-Fluorobiphenyl	50	58-125
S5=2,4,6-Tribromophenol	100	54-145
S6=Terphenyl-d14	50	58-148

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63050

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M86988.D	SMB63050(MS)	10/3/2017 4:42:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	21.3416	0	50	43	1	150
N-Nitrosodimethylamine	1	32.0069	0	50	64	50	130
Benzaldehyde	1	168.6354	0	50	337*	20	150
Aniline	1	16.3428	0	50	33	20	150
Pentachloroethane	1	33.0758	0	50	66	50	130
bis(2-Chloroethyl)ether	1	34.0368	0	50	68	50	130
Phenol	1	67.4203	0	100	67	20	150
2-Chlorophenol	1	79.5835	0	100	80	50	130
N-Decane	1	25.2053	0	50	50	20	130
1,3-Dichlorobenzene	1	37.0572	0	50	74	60	130
1,4-Dichlorobenzene	1	32.921	0	50	66	60	130
1,2-Dichlorobenzene	1	33.2569	0	50	67	50	130
Benzyl alcohol	1	35.4988	0	50	71	20	130
bis(2-chloroisopropyl)ether	1	24.2352	0	50	48	40	130
2-Methylphenol	1	67.301	0	100	67	50	130
Acetophenone	1	33.5584	0	50	67	50	130
Hexachloroethane	1	31.0418	0	50	62	50	130
N-Nitroso-di-n-propylamine	1	30.5864	0	50	61	40	130
3&4-Methylphenol	1	70.619	0	100	71	70	130
Nitrobenzene	1	32.9035	0	50	66*	70	130
Isophorone	1	31.5424	0	50	63	60	130
2-Nitrophenol	1	76.5438	0	100	77	70	130
2,4-Dimethylphenol	1	69.372	0	100	69	50	130
Benzoic Acid	1	20.9231	0	100	21	20	130
bis(2-Chloroethoxy)methane	1	32.938	0	50	66	60	130
2,4-Dichlorophenol	1	79.1435	0	100	79	70	130
1,2,4-Trichlorobenzene	1	38.2419	0	50	76	50	130
Naphthalene	1	36.8148	0	50	74	50	130
4-Chloroaniline	1	14.7205	0	50	29	10	150
Hexachlorobutadiene	1	38.9587	0	50	78	60	130
Caprolactam	1	36.8607	0	50	74	50	130
4-Chloro-3-methylphenol	1	71.0293	0	100	71	50	130
2-Methylnaphthalene	1	37.1061	0	50	74	70	130
1-Methylnaphthalene	1	35.608	0	50	71	70	130
1,1'-Biphenyl	1	32.6442	0	50	65	60	130
1,2,4,5-Tetrachlorobenzene	1	40.2642	0	50	81	70	130
Hexachlorocyclopentadiene	1	9.335	0	50	19*	20	160
2,4,6-Trichlorophenol	1	77.1389	0	100	77	70	130
2,4,5-Trichlorophenol	1	85.6992	0	100	86	70	130
2-Chloronaphthalene	1	38.0423	0	50	76	70	130
1,4-Dimethylnaphthalene	1	33.2807	0	50	67*	70	130
Diphenyl Ether	1	40.382	0	50	81	70	130
2-Nitroaniline	1	37.9763	0	50	76	50	130
Coumarin	1	30.2444	0	50	60*	70	130
Acenaphthylene	1	39.8497	0	50	80	70	130
Dimethylphthalate	1	37.9734	0	50	76	70	130
2,6-Dinitrotoluene	1	40.4598	0	50	81	70	130
Acenaphthene	1	38.6334	0	50	77	50	130
3-Nitroaniline	1	27.3563	0	50	55	10	130
2,4-Dinitrophenol	1	43.3121	0	100	43	20	150
Dibenzofuran	1	39.0418	0	50	78	70	130
2,4-Dinitrotoluene	1	35.1075	0	50	70	40	130
4-Nitrophenol	1	55.3616	0	100	55	20	150
2,3,4,6-Tetrachlorophenol	1	67.3612	0	100	67*	70	130
Fluorene	1	38.6452	0	50	77	50	130
4-Chlorophenyl-phenylether	1	37.6722	0	50	75	70	130
Diethylphthalate	1	38.0735	0	50	76	70	130
4-Nitroaniline	1	33.5186	0	50	67	50	130
Atrazine	1	54.4084	0	50	109	50	130
4,6-Dinitro-2-methylphenol	1	55.5465	0	100	56*	70	130
n-Nitrosodiphenylamine	1	34.7586	0	50	70	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63050

1,2-Diphenylhydrazine	1	35.1154	0	50	70	70	130
4-Bromophenyl-phenylether	1	43.5057	0	50	87	70	130
Hexachlorobenzene	1	42.8388	0	50	86	70	130
N-Octadecane	1	36.4933	0	50	73	70	130
Pentachlorophenol	1	54.0356	0	100	54	40	130
Phenanthrene	1	37.698	0	50	75	70	130
Anthracene	1	37.7846	0	50	76	70	130
Carbazole	1	36.4269	0	50	73	70	130
Di-n-butylphthalate	1	37.8923	0	50	76	70	130
Fluoranthene	1	37.1053	0	50	74	70	130
Pyrene	1	41.3455	0	50	83	50	130
Benzidine	1	4.5485	0	50	9.1	1	130
Butylbenzylphthalate	1	38.5479	0	50	77	50	130
3,3'-Dichlorobenzidine	1	28.8804	0	50	58	10	130
Benzo[a]anthracene	1	37.7711	0	50	76	70	130
Chrysene	1	37.0367	0	50	74	60	130
bis(2-Ethylhexyl)phthalate	1	39.7979	0	50	80	70	130
Di-n-octylphthalate	1	38.5701	0	50	77	70	130
Benzo[b]fluoranthene	1	41.343	0	50	83	70	130
Benzo[k]fluoranthene	1	35.5482	0	50	71	70	130
Benzo[a]pyrene	1	34.9528	0	50	70	70	130
Indeno[1,2,3-cd]pyrene	1	45.33	0	50	91	70	130
Dibenzo[a,h]anthracene	1	44.2942	0	50	89	60	130
Benzo[g,h,i]perylene	1	43.0936	0	50	86	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63067

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M87026.D	SMB63067(MS)	10/4/2017 4:48:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	27.6852	0	50	55	1	150
N-Nitrosodimethylamine	1	36.9587	0	50	74	50	130
Benzaldehyde	1	197.0764	0	50	394*	20	150
Aniline	1	25.9898	0	50	52	20	150
Pentachloroethane	1	37.1931	0	50	74	50	130
bis(2-Chloroethyl)ether	1	41.2106	0	50	82	50	130
Phenol	1	87.9877	0	100	88	20	150
2-Chlorophenol	1	98.6432	0	100	99	50	130
N-Decane	1	28.3078	0	50	57	20	130
1,3-Dichlorobenzene	1	43.1339	0	50	86	60	130
1,4-Dichlorobenzene	1	35.5642	0	50	71	60	130
1,2-Dichlorobenzene	1	35.4298	0	50	71	50	130
Benzyl alcohol	1	40.6696	0	50	81	20	130
bis(2-chloroisopropyl)ether	1	26.9898	0	50	54	40	130
2-Methylphenol	1	78.7206	0	100	79	50	130
Acetophenone	1	35.9083	0	50	72	50	130
Hexachloroethane	1	33.5739	0	50	67	50	130
N-Nitroso-di-n-propylamine	1	34.292	0	50	69	40	130
3&4-Methylphenol	1	83.9791	0	100	84	70	130
Nitrobenzene	1	34.3119	0	50	69*	70	130
Isophorone	1	33.8782	0	50	68	60	130
2-Nitrophenol	1	79.4834	0	100	79	70	130
2,4-Dimethylphenol	1	76.6252	0	100	77	50	130
Benzoic Acid	1	14.8411	0	100	15*	20	130
bis(2-Chloroethoxy)methane	1	34.8591	0	50	70	60	130
2,4-Dichlorophenol	1	85.7291	0	100	86	70	130
1,2,4-Trichlorobenzene	1	38.4001	0	50	77	50	130
Naphthalene	1	38.0644	0	50	76	50	130
4-Chloroaniline	1	31.4522	0	50	63	10	150
Hexachlorobutadiene	1	40.3544	0	50	81	60	130
Caprolactam	1	43.78	0	50	88	50	130
4-Chloro-3-methylphenol	1	80.659	0	100	81	50	130
2-Methylnaphthalene	1	38.8321	0	50	78	70	130
1-Methylnaphthalene	1	36.8443	0	50	74	70	130
1,1'-Biphenyl	1	34.4286	0	50	69	60	130
1,2,4,5-Tetrachlorobenzene	1	38.6971	0	50	77	70	130
Hexachlorocyclopentadiene	1	5.9279	0	50	12*	20	160
2,4,6-Trichlorophenol	1	82.2442	0	100	82	70	130
2,4,5-Trichlorophenol	1	90.9691	0	100	91	70	130
2-Chloronaphthalene	1	38.0268	0	50	76	70	130
1,4-Dimethylnaphthalene	1	32.4388	0	50	65*	70	130
Diphenyl Ether	1	39.2967	0	50	79	70	130
2-Nitroaniline	1	41.0683	0	50	82	50	130
Coumarin	1	33.0124	0	50	66*	70	130
Acenaphthylene	1	41.1968	0	50	82	70	130
Dimethylphthalate	1	41.2	0	50	82	70	130
2,6-Dinitrotoluene	1	44.0035	0	50	88	70	130
Acenaphthene	1	39.8922	0	50	80	50	130
3-Nitroaniline	1	36.3219	0	50	73	10	130
2,4-Dinitrophenol	1	24.2912	0	100	24	20	150
Dibenzofuran	1	41.2626	0	50	83	70	130
2,4-Dinitrotoluene	1	39.5367	0	50	79	40	130
4-Nitrophenol	1	65.0832	0	100	65	20	150
2,3,4,6-Tetrachlorophenol	1	76.331	0	100	76	70	130
Fluorene	1	41.2377	0	50	82	50	130
4-Chlorophenyl-phenylether	1	40.3431	0	50	81	70	130
Diethylphthalate	1	42.7262	0	50	85	70	130
4-Nitroaniline	1	40.2379	0	50	80	50	130
Atrazine	1	62.0752	0	50	124	50	130
4,6-Dinitro-2-methylphenol	1	38.5657	0	100	39*	70	130
n-Nitrosodiphenylamine	1	35.7474	0	50	71	50	130

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Form3
Recovery Data Laboratory Limits
QC Batch: SMB63067

1,2-Diphenylhydrazine	1	34.9725	0	50	70	70	130
4-Bromophenyl-phenylether	1	42.3703	0	50	85	70	130
Hexachlorobenzene	1	44.1522	0	50	88	70	130
N-Octadecane	1	35.4803	0	50	71	70	130
Pentachlorophenol	1	46.7548	0	100	47	40	130
Phenanthrene	1	39.4792	0	50	79	70	130
Anthracene	1	40.3045	0	50	81	70	130
Carbazole	1	39.0425	0	50	78	70	130
Di-n-butylphthalate	1	41.4142	0	50	83	70	130
Fluoranthene	1	41.9716	0	50	84	70	130
Pyrene	1	41.9414	0	50	84	50	130
Benzidine	1	4.0945	0	50	8.2	1	130
Butylbenzylphthalate	1	40.3143	0	50	81	50	130
3,3'-Dichlorobenzidine	1	33.44	0	50	67	10	130
Benzo[a]anthracene	1	41.1277	0	50	82	70	130
Chrysene	1	39.7914	0	50	80	60	130
bis(2-Ethylhexyl)phthalate	1	41.9914	0	50	84	70	130
Di-n-octylphthalate	1	41.0963	0	50	82	70	130
Benzo[b]fluoranthene	1	46.4548	0	50	93	70	130
Benzo[k]fluoranthene	1	48.3074	0	50	97	70	130
Benzo[a]pyrene	1	37.612	0	50	75	70	130
Indeno[1,2,3-cd]pyrene	1	46.5218	0	50	93	70	130
Dibenzo[a,h]anthracene	1	45.8085	0	50	92	60	130
Benzo[g,h,i]perylene	1	43.9976	0	50	88	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63050

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M65320.D	AD00192-002(MS)	10/4/2017 10:36:00 AM
Non Spike(If applicable):	10M65319.D	AD00192-002	10/4/2017 10:14:00 AM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	23.976	0	50	48	1	150
N-Nitrosodimethylamine	1	38.8938	0	50	78	50	130
Benzaldehyde	1	196.0863	0	50	392*	20	150
Aniline	1	36.8252	0	50	74	20	150
Pentachloroethane	1	33.5301	0	50	67	50	130
bis(2-Chloroethyl)ether	1	36.5408	0	50	73	50	130
N-Decane	1	29.2106	0	50	58	20	130
1,3-Dichlorobenzene	1	37.7069	0	50	75	60	130
1,4-Dichlorobenzene	1	36.604	0	50	73	60	130
1,2-Dichlorobenzene	1	37.116	0	50	74	50	130
Benzyl alcohol	1	22.7423	0	50	45	20	130
bis(2-chloroisopropyl)ether	1	30.614	0	50	61	40	130
Acetophenone	1	37.1195	0	50	74	50	130
Hexachloroethane	1	36.8005	0	50	74	50	130
N-Nitroso-di-n-propylamine	1	35.9766	0	50	72	40	130
Nitrobenzene	1	38.2174	0	50	76	70	130
Isophorone	1	36.2956	0	50	73	60	130
Benzoic Acid	1	33.7762	0	100	34	20	130
bis(2-Chloroethoxy)methane	1	37.4913	0	50	75	60	130
1,2,4-Trichlorobenzene	1	37.2483	0	50	74	50	130
Naphthalene	1	37.6562	0	50	75	50	130
4-Chloroaniline	1	20.8207	0	50	42	10	150
Hexachlorobutadiene	1	37.4395	0	50	75	60	130
Caprolactam	1	34.7538	0	50	70	50	130
2-Methylnaphthalene	1	39.8049	0	50	80	70	130
1-Methylnaphthalene	1	36.159	0	50	72	70	130
1,1'-Biphenyl	1	32.3346	0	50	65	60	130
1,2,4,5-Tetrachlorobenzene	1	38.6796	0	50	77	70	130
Hexachlorocyclopentadiene	1	22.6568	0	50	45	20	160
2-Chloronaphthalene	1	40.7661	0	50	82	70	130
1,4-Dimethylnaphthalene	1	33.3417	0	50	67*	70	130
Diphenyl Ether	1	40.0665	0	50	80	70	130
2-Nitroaniline	1	41.9534	0	50	84	50	130
Coumarin	1	29.9343	0	50	60*	70	130
Acenaphthylene	1	40.5689	0	50	81	70	130
Dimethylphthalate	1	37.7649	0	50	76	70	130
2,6-Dinitrotoluene	1	38.7303	0	50	77	70	130
Acenaphthene	1	39.9672	0	50	80	50	130
3-Nitroaniline	1	37.581	0	50	75	10	130
Dibenzofuran	1	39.9336	0	50	80	70	130
2,4-Dinitrotoluene	1	37.1099	0	50	74	40	130
Fluorene	1	38.2987	0	50	77	50	130
4-Chlorophenyl-phenylether	1	36.7266	0	50	73	70	130
Diethylphthalate	1	39.1037	0	50	78	70	130
4-Nitroaniline	1	36.2324	0	50	72	50	130
Atrazine	1	50.1497	0	50	100	50	130
n-Nitrosodiphenylamine	1	35.3882	0	50	71	50	130
1,2-Diphenylhydrazine	1	42.008	0	50	84	70	130
4-Bromophenyl-phenylether	1	39.0838	0	50	78	70	130
Hexachlorobenzene	1	37.9735	0	50	76	70	130
N-Octadecane	1	41.1796	0	50	82	70	130
Phenanthrene	1	37.4295	0	50	75	70	130
Anthracene	1	38.3569	0	50	77	70	130
Carbazole	1	35.6751	0	50	71	70	130
Di-n-butylphthalate	1	39.6897	0	50	79	70	130
Fluoranthene	1	36.1979	0	50	72	70	130
Pyrene	1	43.5488	0	50	87	50	130
Benzidine	1	2.8332	0	50	5.7	1	130
Butylbenzylphthalate	1	44.0485	0	50	88	50	130
3,3'-Dichlorobenzidine	1	36.9177	0	50	74	10	130
Benzo[a]anthracene	1	39.5341	0	50	79	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63050

Chrysene	1	40.7117	0	50	81	60	130
bis(2-Ethylhexyl)phthalate	1	51.6863	0	50	103	70	130
Di-n-octylphthalate	1	45.6219	0	50	91	70	130
Benzo[b]fluoranthene	1	43.8019	0	50	88	70	130
Benzo[k]fluoranthene	1	39.6632	0	50	79	70	130
Benzo[a]pyrene	1	37.8062	0	50	76	70	130
Indeno[1,2,3-cd]pyrene	1	45.0624	0	50	90	70	130
Dibenzo[a,h]anthracene	1	43.711	0	50	87	60	130
Benzo[g,h,i]perylene	1	40.6352	0	50	81	70	130

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Form3
Recovery Data Laboratory Limits
QC Batch: SMB63050

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M65321.D	AD00192-002(MSD)	10/4/2017 10:58:00 AM
Non Spike(If applicable):	10M65319.D	AD00192-002	10/4/2017 10:14:00 AM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	16.9002	0	50	34	1	150
N-Nitrosodimethylamine	1	30.2766	0	50	61	50	130
Benzaldehyde	1	154.6572	0	50	309*	20	150
Aniline	1	25.5507	0	50	51	20	150
Pentachloroethane	1	26.6588	0	50	53	50	130
bis(2-Chloroethyl)ether	1	29.2281	0	50	58	50	130
N-Decane	1	21.9958	0	50	44	20	130
1,3-Dichlorobenzene	1	29.8352	0	50	60	60	130
1,4-Dichlorobenzene	1	28.5361	0	50	57*	60	130
1,2-Dichlorobenzene	1	30.019	0	50	60	50	130
Benzyl alcohol	1	18.4885	0	50	37	20	130
bis(2-chloroisopropyl)ether	1	25.9249	0	50	52	40	130
Acetophenone	1	32.3165	0	50	65	50	130
Hexachloroethane	1	29.5268	0	50	59	50	130
N-Nitroso-di-n-propylamine	1	31.5149	0	50	63	40	130
Nitrobenzene	1	32.4802	0	50	65*	70	130
Isophorone	1	31.3054	0	50	63	60	130
Benzoic Acid	1	31.6089	0	100	32	20	130
bis(2-Chloroethoxy)methane	1	32.3697	0	50	65	60	130
1,2,4-Trichlorobenzene	1	31.7084	0	50	63	50	130
Naphthalene	1	31.5364	0	50	63	50	130
4-Chloroaniline	1	17.7385	0	50	35	10	150
Hexachlorobutadiene	1	31.0968	0	50	62	60	130
Caprolactam	1	31.7415	0	50	63	50	130
2-Methylnaphthalene	1	33.4525	0	50	67*	70	130
1-Methylnaphthalene	1	29.991	0	50	60*	70	130
1,1'-Biphenyl	1	27.8371	0	50	56*	60	130
1,2,4,5-Tetrachlorobenzene	1	32.3682	0	50	65*	70	130
Hexachlorocyclopentadiene	1	16.7664	0	50	34	20	160
2-Chloronaphthalene	1	32.5325	0	50	65*	70	130
1,4-Dimethylnaphthalene	1	27.7725	0	50	56*	70	130
Diphenyl Ether	1	32.432	0	50	65*	70	130
2-Nitroaniline	1	35.0531	0	50	70	50	130
Coumarin	1	25.8098	0	50	52*	70	130
Acenaphthylene	1	34.7987	0	50	70	70	130
Dimethylphthalate	1	32.6059	0	50	65*	70	130
2,6-Dinitrotoluene	1	32.9958	0	50	66*	70	130
Acenaphthene	1	33.2576	0	50	67	50	130
3-Nitroaniline	1	31.5136	0	50	63*	70	130
Dibenzofuran	1	34.2244	0	50	68*	70	130
2,4-Dinitrotoluene	1	32.4474	0	50	65	40	130
Fluorene	1	33.4713	0	50	67	50	130
4-Chlorophenyl-phenylether	1	32.4091	0	50	65*	70	130
Diethylphthalate	1	33.2411	0	50	66*	70	130
4-Nitroaniline	1	31.0631	0	50	62	50	130
Atrazine	1	44.3305	0	50	89	50	130
n-Nitrosodiphenylamine	1	31.9087	0	50	64	50	130
1,2-Diphenylhydrazine	1	38.2866	0	50	77	70	130
4-Bromophenyl-phenylether	1	34.494	0	50	69*	70	130
Hexachlorobenzene	1	35.3516	0	50	71	70	130
N-Octadecane	1	37.9436	0	50	76	70	130
Phenanthrene	1	33.7033	0	50	67*	70	130
Anthracene	1	32.975	0	50	66*	70	130
Carbazole	1	32.1721	0	50	64*	70	130
Di-n-butylphthalate	1	36.4139	0	50	73	70	130
Fluoranthene	1	34.5143	0	50	69*	70	130
Pyrene	1	41.5287	0	50	83	50	130
Benzidine	1	0	0	50	0*	1	130
Butylbenzylphthalate	1	38.9847	0	50	78	50	130
3,3'-Dichlorobenzidine	1	31.5403	0	50	63	10	130
Benzo[a]anthracene	1	35.2053	0	50	70	70	130

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Form3
Recovery Data Laboratory Limits
QC Batch: SMB63050

Chrysene	1	34.5529	0	50	69	60	130
bis(2-Ethylhexyl)phthalate	1	43.4302	0	50	87	70	130
Di-n-octylphthalate	1	38.3515	0	50	77	70	130
Benzo[b]fluoranthene	1	39.6434	0	50	79	70	130
Benzo[k]fluoranthene	1	34.212	0	50	68 *	70	130
Benzo[a]pyrene	1	31.5291	0	50	63 *	70	130
Indeno[1,2,3-cd]pyrene	1	40.6191	0	50	81	70	130
Dibenzo[a,h]anthracene	1	37.9492	0	50	76	60	130
Benzo[g,h,i]perylene	1	35.1535	0	50	70	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: SMB63050

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M65321.D	AD00192-002(MSD)	10/4/2017 10:58:00 AM
Duplicate(If applicable):	10M65320.D	AD00192-002(MS)	10/4/2017 10:36:00 AM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Pyridine	1	16.9002	23.976	35*	30
N-Nitrosodimethylamine	1	30.2766	38.8938	25	30
Benzaldehyde	1	154.6572	196.0863	24	30
Aniline	1	25.5507	36.8252	36*	30
Pentachloroethane	1	26.6588	33.5301	23	30
bis(2-Chloroethyl)ether	1	29.2281	36.5408	22	30
N-Decane	1	21.9958	29.2106	28	30
1,3-Dichlorobenzene	1	29.8352	37.7069	23	30
1,4-Dichlorobenzene	1	28.5361	36.604	25	40
1,2-Dichlorobenzene	1	30.019	37.116	21	30
Benzyl alcohol	1	18.4885	22.7423	21	30
bis(2-chloroisopropyl)ether	1	25.9249	30.614	17	30
Acetophenone	1	32.3165	37.1195	14	30
Hexachloroethane	1	29.5268	36.8005	22	30
N-Nitroso-di-n-propylamine	1	31.5149	35.9766	13	40
Nitrobenzene	1	32.4802	38.2174	16	30
Isophorone	1	31.3054	36.2956	15	30
Benzoic Acid	1	31.6089	33.7762	6.6	30
bis(2-Chloroethoxy)methane	1	32.3697	37.4913	15	30
1,2,4-Trichlorobenzene	1	31.7084	37.2483	16	40
Naphthalene	1	31.5364	37.6562	18	40
4-Chloroaniline	1	17.7385	20.8207	16	30
Hexachlorobutadiene	1	31.0968	37.4395	19	30
Caprolactam	1	31.7415	34.7538	9.1	30
2-Methylnaphthalene	1	33.4525	39.8049	17	30
1-Methylnaphthalene	1	29.991	36.159	19	30
1,1'-Biphenyl	1	27.8371	32.3346	15	30
1,2,4,5-Tetrachlorobenzene	1	32.3682	38.6796	18	30
Hexachlorocyclopentadiene	1	16.7664	22.6568	30	30
2-Chloronaphthalene	1	32.5325	40.7661	22	30
1,4-Dimethylnaphthalene	1	27.7725	33.3417	18	30
Diphenyl Ether	1	32.432	40.0665	21	30
2-Nitroaniline	1	35.0531	41.9534	18	30
Coumarin	1	25.8098	29.9343	15	30
Acenaphthylene	1	34.7987	40.5689	15	30
Dimethylphthalate	1	32.6059	37.7649	15	30
2,6-Dinitrotoluene	1	32.9958	38.7303	16	30
Acenaphthene	1	33.2576	39.9672	18	40
3-Nitroaniline	1	31.5136	37.581	18	30
Dibenzofuran	1	34.2244	39.9336	15	30
2,4-Dinitrotoluene	1	32.4474	37.1099	13	40
Fluorene	1	33.4713	38.2987	13	40
4-Chlorophenyl-phenylether	1	32.4091	36.7266	12	30
Diethylphthalate	1	33.2411	39.1037	16	30
4-Nitroaniline	1	31.0631	36.2324	15	30
Atrazine	1	44.3305	50.1497	12	30
n-Nitrosodiphenylamine	1	31.9087	35.3882	10	30
1,2-Diphenylhydrazine	1	38.2866	42.008	9.3	30
4-Bromophenyl-phenylether	1	34.494	39.0838	12	30
Hexachlorobenzene	1	35.3516	37.9735	7.2	30
N-Octadecane	1	37.9436	41.1796	8.2	30
Phenanthrene	1	33.7033	37.4295	10	30
Anthracene	1	32.975	38.3569	15	30
Carbazole	1	32.1721	35.6751	10	30
Di-n-butylphthalate	1	36.4139	39.6897	8.6	30
Fluoranthene	1	34.5143	36.1979	4.8	30
Pyrene	1	41.5287	43.5488	4.7	40
Benzidine	1	0	2.8332	200*	30
Butylbenzylphthalate	1	38.9847	44.0485	12	40
3,3'-Dichlorobenzidine	1	31.5403	36.9177	16	30
Benzo[a]anthracene	1	35.2053	39.5341	12	30
Chrysene	1	34.5529	40.7117	16	30
bis(2-Ethylhexyl)phthalate	1	43.4302	51.6863	17	30

Form3
RPD Data Laboratory Limits
QC Batch: SMB63050

Di-n-octylphthalate	1	38.3515	45.6219	17	30
Benzo[b]fluoranthene	1	39.6434	43.8019	10	30
Benzo[k]fluoranthene	1	34.212	39.6632	15	30
Benzo[a]pyrene	1	31.5291	37.8062	18	30
Indeno[1,2,3-cd]pyrene	1	40.6191	45.0624	10	30
Dibenzo[a,h]anthracene	1	37.9492	43.711	14	30
Benzo[g,h,i]perylene	1	35.1535	40.6352	14	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: SMB63050
Blank Data File: 10M65317.D
Matrix: Soil

Blank Analysis Date: 10/04/17 09:29
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8270D

Sample Number	Data File	Analysis Date
SMB63050(MS)	7M86988.D	10/03/17 16:42
AD00192-002(MSD	10M65321.D	10/04/17 10:58
AD00192-002(MS)	10M65320.D	10/04/17 10:36
AD00192-002	10M65319.D	10/04/17 10:14

FORM 4
Blank Summary

Blank Number: SMB63067
Blank Data File: 7M87029.D
Matrix: Soil

Blank Analysis Date: 10/04/17 17:58
Blank Extraction Date: 10/04/17
(If Applicable)
Method: EPA 8270D

Sample Number	Data File	Analysis Date
AD00298-002(5X)(	7M87023.D	10/04/17 15:12
SMB63067(MS)	7M87026.D	10/04/17 16:48

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10

Data File: 10M64974.D
Analysis Date: 09/11/17 08:41
Method: EPA 8270D

Tune Scan/Time Range: Scan 1444

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	31.8	25200	PASS
68	69	0.00	2	1.7	488	PASS
69	198	0.00	100	36.5	28856	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	47.0	37192	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	79128	PASS
199	198	5	9	7.1	5647	PASS
275	198	10	30	26.4	20928	PASS
365	198	1	100	3.3	2636	PASS
441	443	0.01	100	73.4	7335	PASS
442	198	40	100	59.3	46936	PASS
443	442	17	23	21.3	9998	PASS

Data File	Sample Number	Analysis Date:
10M64975.D	CAL BNA@10PPM	09/11/17 09:07
10M64976.D	CAL BNA@196PP	09/11/17 09:32
10M64977.D	CAL BNA@160PP	09/11/17 09:55
10M64978.D	CAL BNA@120PP	09/11/17 10:17
10M64979.D	CAL BNA@80PPM	09/11/17 10:39
10M64980.D	CAL BNA@50PPM	09/11/17 11:01
10M64981.D	CAL BNA@20PPM	09/11/17 11:23
10M64982.D	CAL BNA@2PPM	09/11/17 11:46
10M64983.D	CAL BNA@.5PPM	09/11/17 12:08
10M64984.D	CAL BNA@.25PP	09/11/17 12:30
10M64985.D	CAL BNA@50PPM	09/11/17 12:53
10M64986.D	ICV BNA@50PPM	09/11/17 13:15
10M64987.D	EXT MIX#1	09/11/17 14:09
10M64988.D	EXT MIX#1(2ND)	09/11/17 14:31

Data Path : G:\GcMsData\2017\GCMS_10\Data\09-11-17\
Data File : 10M64974.D
Acq On : 11 Sep 2017 8:41
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2017\GCMS_10\METHODQT\10M_0808.M
Title : @GCMS_10,mg,625,8270
Last Update : Mon Sep 11 13:08:39 2017

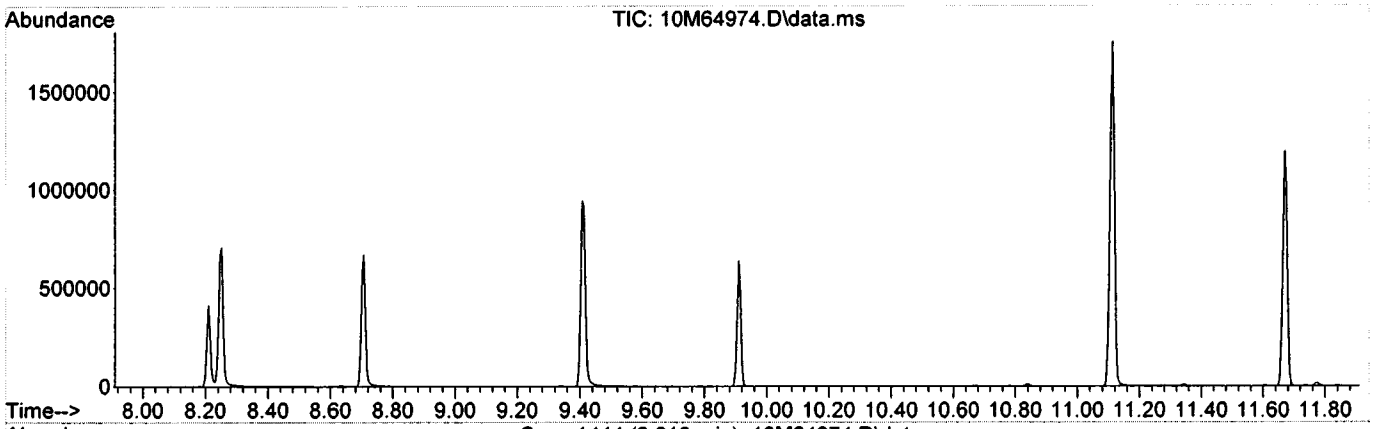

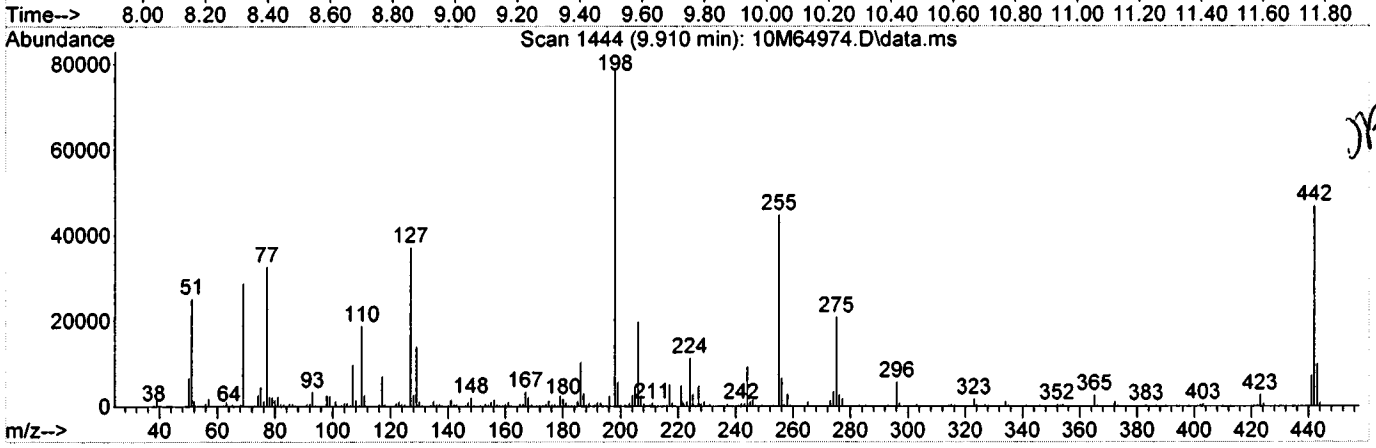

Spectrum Information: Scan 1444

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.8	25200	PASS
68	69	0.00	2	1.7	488	PASS
69	198	0.00	100	36.5	28856	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	47.0	37192	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	79128	PASS
199	198	5	9	7.1	5647	PASS
275	198	10	30	26.4	20928	PASS
365	198	1	100	3.3	2636	PASS
441	443	0.01	100	73.4	7335	PASS
442	198	40	100	59.3	46936	PASS
443	442	17	23	21.3	9998	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7

Data File: 7M86401.D
Analysis Date: 09/11/17 08:45
Method: EPA 8270D

Tune Scan/Time Range: Scan 1452

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	35.7	69000	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.8	84784	PASS
70	69	0.00	2	0.7	582	PASS
127	198	40	60	49.3	95416	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	193472	PASS
199	198	5	9	6.9	13323	PASS
275	198	10	30	25.7	49744	PASS
365	198	1	100	3.0	5758	PASS
441	443	0.01	100	78.3	17192	PASS
442	198	40	100	60.0	116064	PASS
443	442	17	23	18.9	21968	PASS

Data File	Sample Number	Analysis Date:
7M86402.D	CAL BNA@10PPM	09/11/17 09:11
7M86403.D	CAL BNA@10PPM	09/11/17 11:02
7M86404.D	CAL BNA@196PP	09/11/17 11:25
7M86405.D	CAL BNA@160PP	09/11/17 11:49
7M86406.D	CAL BNA@120PP	09/11/17 12:12
7M86407.D	CAL BNA@80PPM	09/11/17 12:35
7M86408.D	CAL BNA@10PPM	09/11/17 12:59
7M86409.D	CAL BNA@50PPM	09/11/17 13:22
7M86410.D	CAL BNA@20PPM	09/11/17 13:46
7M86411.D	CAL BNA@2PPM	09/11/17 14:09
7M86412.D	CAL BNA@.25PP	09/11/17 14:41
7M86413.D	CAL BNA@.5PPM	09/11/17 15:05
7M86414.D	ICV BNA@50PPM	09/11/17 15:30

7092827 0100

Data Path : G:\GcMsData\2017\GCMS_7\Data\09-11-17\
Data File : 7M86401.D
Acq On : 11 Sep 2017 8:45
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2017\GCMS_7\METHODQT\7M_0807.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Aug 14 13:34:47 2017

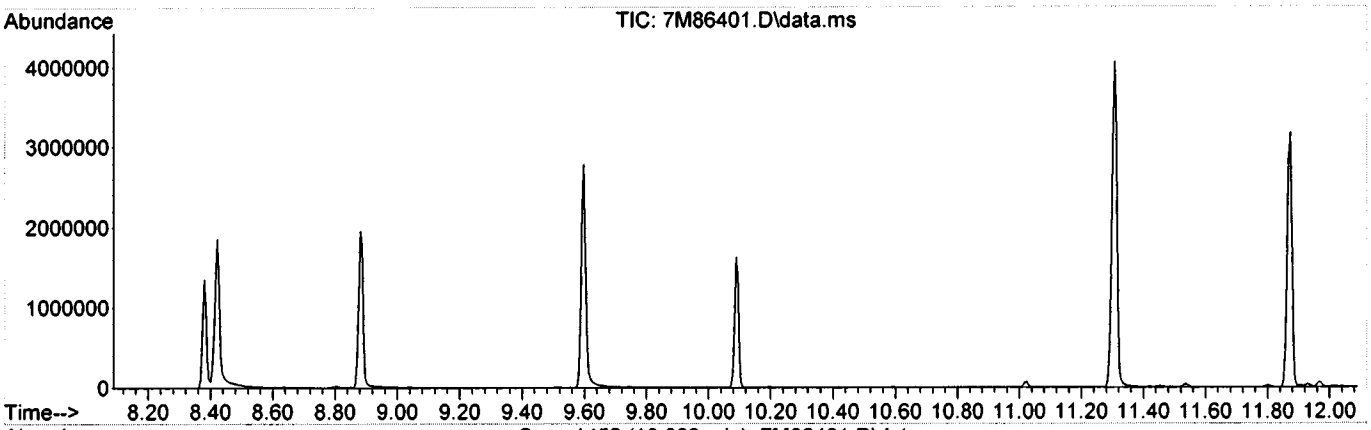

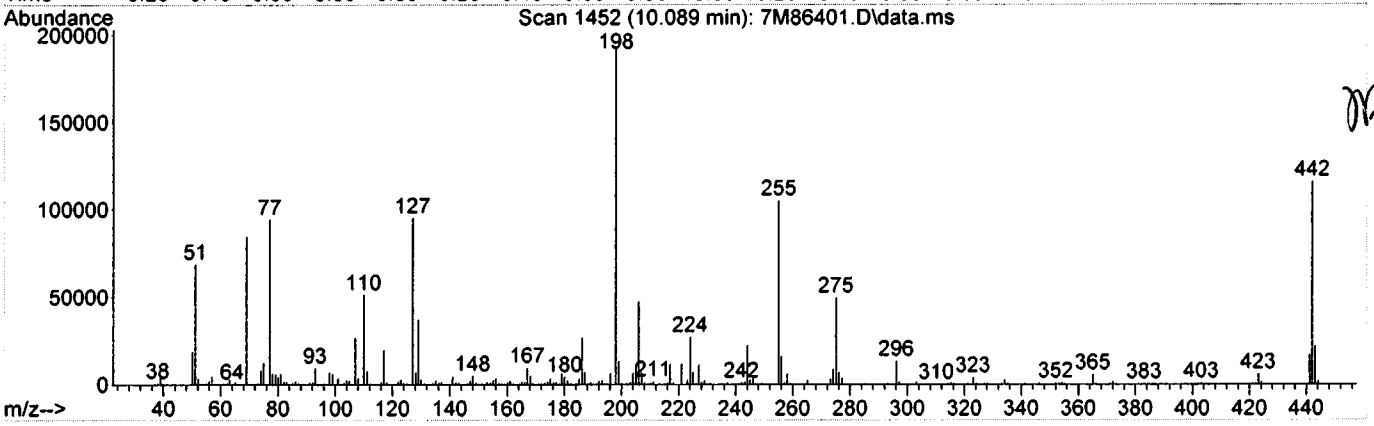

Spectrum Information: Scan 1452

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.7	69000	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.8	84784	PASS
70	69	0.00	2	0.7	582	PASS
127	198	40	60	49.3	95416	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	193472	PASS
199	198	5	9	6.9	13323	PASS
275	198	10	30	25.7	49744	PASS
365	198	1	100	3.0	5758	PASS
441	443	0.01	100	78.3	17192	PASS
442	198	40	100	60.0	116064	PASS
443	442	17	23	18.9	21968	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7

Data File: 7M86985.D
Analysis Date: 10/03/17 15:07
Method: EPA 8270D

Tune Scan/Time Range: Average of 10.073 to 10.073 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	33.6	33664	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.4	40568	PASS
70	69	0.00	2	0.9	372	PASS
127	198	40	60	46.8	46936	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	100336	PASS
199	198	5	9	6.7	6715	PASS
275	198	10	30	26.5	26616	PASS
365	198	1	100	2.7	2728	PASS
441	443	0.01	100	68.4	11067	PASS
442	198	40	100	75.2	75432	PASS
443	442	17	23	21.4	16179	PASS

Data File	Sample Number	Analysis Date:
7M86986.D	CAL BNA@50PPM	10/03/17 15:31
7M86987.D	AD00319-002(3X)	10/03/17 16:19
7M86988.D	SMB63050(MS)	10/03/17 16:42
7M86989.D	SMB63051(MS)	10/03/17 17:06
7M86990.D	SMB63050	10/03/17 17:29
7M86991.D	SMB63051	10/03/17 17:53
7M86992.D	AD00275-021(R)	10/03/17 18:16
7M86993.D	AD00298-002(5X)	10/03/17 18:39
7M86994.D	AD00316-026(3X)	10/03/17 19:03
7M86995.D	AD00275-006(3X)	10/03/17 19:26
7M86996.D	AD00275-015(3X)	10/03/17 19:50
7M86997.D	AD00275-025(3X)	10/03/17 20:13
7M86998.D	AD00275-016	10/03/17 20:36
7M86999.D	AD00275-017	10/03/17 21:00
7M87000.D	AD00275-018	10/03/17 21:23
7M87001.D	AD00275-019	10/03/17 21:46
7M87002.D	AD00275-020	10/03/17 22:09
7M87003.D	AD00275-022	10/03/17 22:33
7M87004.D	AD00275-023	10/03/17 22:56
7M87005.D	AD00275-024	10/03/17 23:19
7M87006.D	AD00275-026	10/03/17 23:42

Data Path : G:\GcMsData\2017\GCMS_7\Data\10-0317\
Data File : 7M86985.D
Acq On : 3 Oct 2017 15:07
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2017\GCMS_7\METHODQT\7M_0911.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Sep 11 15:43:33 2017

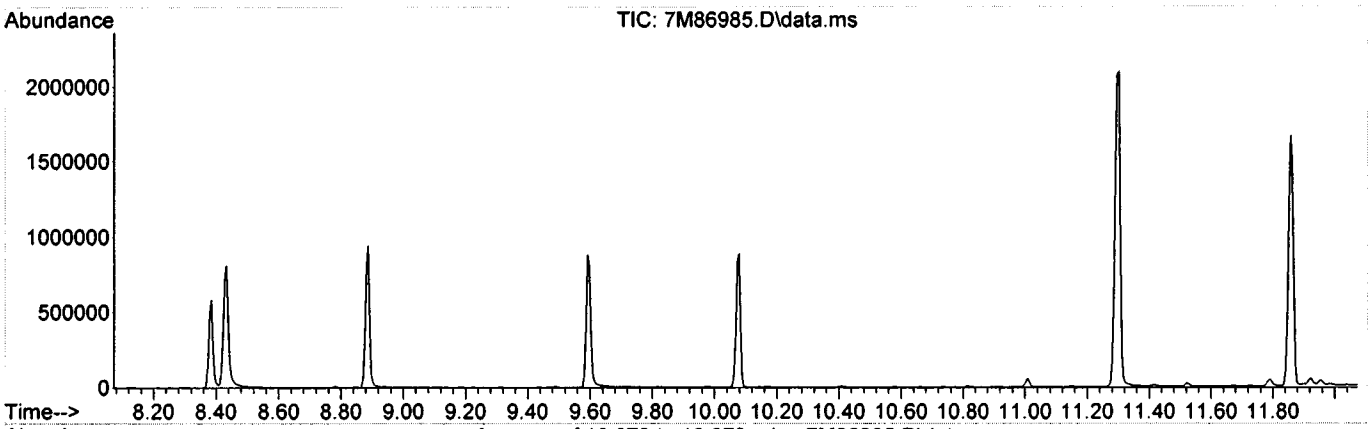

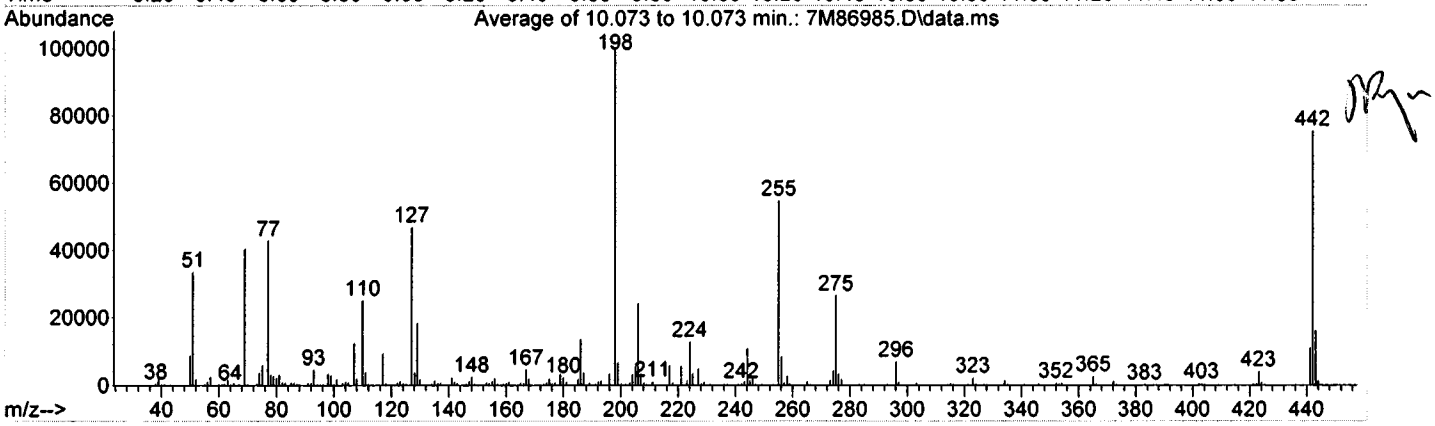

Spectrum Information: Average of 10.073 to 10.073 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	33.6	33664	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.4	40568	PASS
70	69	0.00	2	0.9	372	PASS
127	198	40	60	46.8	46936	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	100336	PASS
199	198	5	9	6.7	6715	PASS
275	198	10	30	26.5	26616	PASS
365	198	1	100	2.7	2728	PASS
441	443	0.01	100	68.4	11067	PASS
442	198	40	100	75.2	75432	PASS
443	442	17	23	21.4	16179	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10

Data File: 10M65315.D
Analysis Date: 10/04/17 08:26
Method: EPA 8270D

Tune Scan/Time Range: Average of 9.894 to 9.905 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.2	27936	PASS
68	69	0.00	2	1.0	314	PASS
69	198	0.00	100	40.4	30369	PASS
70	69	0.00	2	0.2	61	PASS
127	198	40	60	50.1	37684	PASS
197	198	0.00	1	0.3	257	PASS
198	198	100	100	100.0	75181	PASS
199	198	5	9	6.9	5223	PASS
275	198	10	30	24.8	18661	PASS
365	198	1	100	3.2	2372	PASS
441	443	0.01	100	73.8	5998	PASS
442	198	40	100	53.9	40543	PASS
443	442	17	23	20.1	8130	PASS

Data File	Sample Number	Analysis Date:
10M65316.D	CAL BNA@50PPM	10/04/17 08:55
10M65317.D	SMB63050	10/04/17 09:29
10M65318.D	TEST63051	10/04/17 09:52
10M65319.D	AD00192-002	10/04/17 10:14
10M65320.D	AD00192-002(MS)	10/04/17 10:36
10M65321.D	AD00192-002(MSD	10/04/17 10:58
10M65322.D	AD00192-005	10/04/17 11:20
10M65323.D	AD00290-002	10/04/17 11:43
10M65324.D	AD00290-004	10/04/17 12:05
10M65325.D	AD00290-006	10/04/17 12:27
10M65326.D	AD00290-008	10/04/17 12:49
10M65327.D	AD00290-010	10/04/17 13:11
10M65328.D	AD00290-012	10/04/17 13:34
10M65329.D	AD00290-014	10/04/17 13:56
10M65330.D	SMB63051	10/04/17 14:18
10M65331.D	WMB63064	10/04/17 14:41
10M65332.D	AD00333-001	10/04/17 15:44
10M65333.D	AD00333-003	10/04/17 16:06
10M65334.D	AD00346-025	10/04/17 16:29
10M65335.D	AD00354-001	10/04/17 16:51
10M65336.D	AD00354-002	10/04/17 17:13
10M65337.D	AD00354-003	10/04/17 17:35
10M65338.D	AD00354-004	10/04/17 17:57
10M65339.D	AD00354-005	10/04/17 18:20

Data Path : G:\GcMsData\2017\GCMS_10\Data\10-04-17\
Data File : 10M65315.D
Acq On : 4 Oct 2017 8:26
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2017\GCMS_10\METHODQT\10M_0911.M
Title : @GCMS_10,mg,625,8270
Last Update : Mon Sep 11 13:11:29 2017

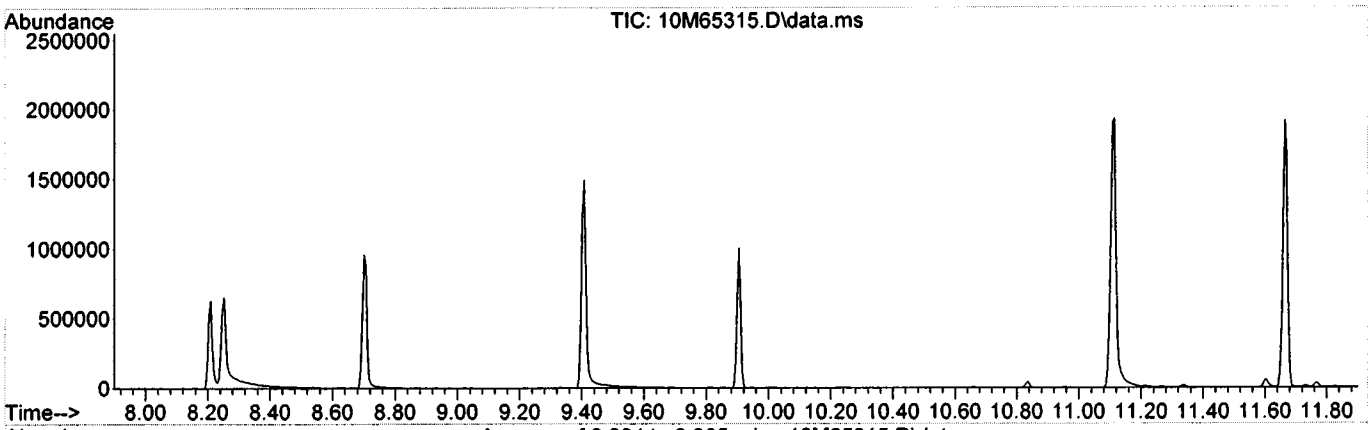

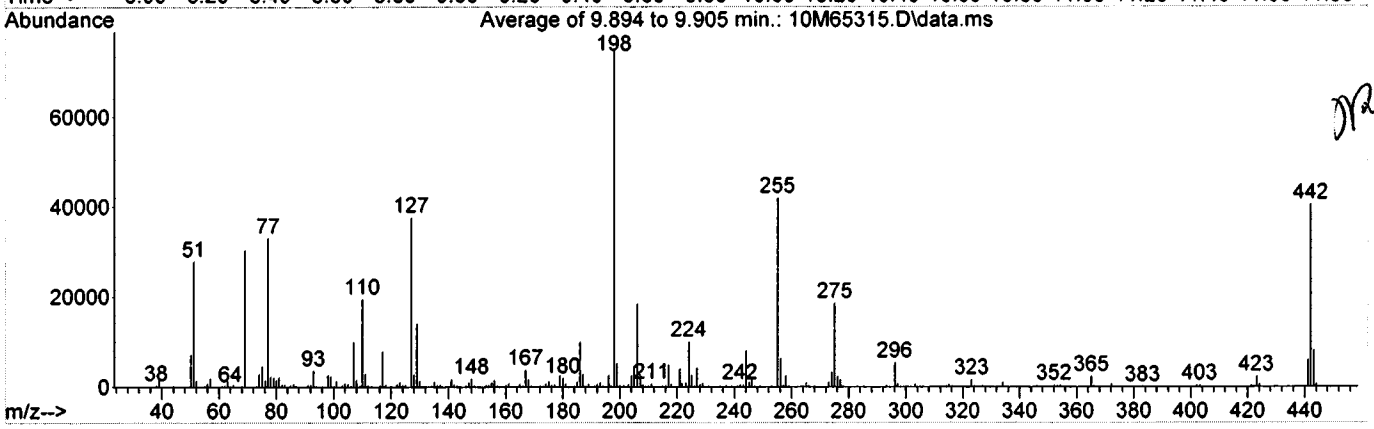

Spectrum Information: Average of 9.894 to 9.905 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.2	27936	PASS
68	69	0.00	2	1.0	314	PASS
69	198	0.00	100	40.4	30369	PASS
70	69	0.00	2	0.2	61	PASS
127	198	40	60	50.1	37684	PASS
197	198	0.00	1	0.3	257	PASS
198	198	100	100	100.0	75181	PASS
199	198	5	9	6.9	5223	PASS
275	198	10	30	24.8	18661	PASS
365	198	1	100	3.2	2372	PASS
441	443	0.01	100	73.8	5998	PASS
442	198	40	100	53.9	40543	PASS
443	442	17	23	20.1	8130	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7

Data File: 7M87007.D
Analysis Date: 10/04/17 08:28
Method: EPA 8270D

Tune Scan/Time Range: Average of 10.057 to 10.067 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.5	17679	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.7	20608	PASS
70	69	0.00	2	0.6	131	PASS
127	198	40	60	48.9	23063	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	47194	PASS
199	198	5	9	6.9	3262	PASS
275	198	10	30	27.1	12776	PASS
365	198	1	100	2.7	1289	PASS
441	443	0.01	100	79.0	5233	PASS
442	198	40	100	71.0	33524	PASS
443	442	17	23	19.8	6625	PASS

Data File	Sample Number	Analysis Date:
7M87008.D	CAL BNA@50PPM	10/04/17 08:55
7M87009.D	AD00361-027	10/04/17 09:46
7M87010.D	AD00361-029	10/04/17 10:09
7M87011.D	AD00356-001(5X)(	10/04/17 10:33
7M87012.D	AD00350-001	10/04/17 10:56
7M87013.D	AD00275-035	10/04/17 11:19
7M87014.D	AD00286-001(5X)	10/04/17 11:43
7M87015.D	AD00356-001(5X)	10/04/17 12:06
7M87016.D	AD00356-001(5X)(	10/04/17 12:29
7M87017.D	AD00361-020(5X)	10/04/17 12:52
7M87018.D	AD00361-021(5X)	10/04/17 13:16
7M87019.D	AD00361-022(5X)	10/04/17 13:39
7M87020.D	AD00361-023(5X)	10/04/17 14:02
7M87021.D	AD00361-024(5X)	10/04/17 14:25
7M87022.D	AD00361-025(5X)	10/04/17 14:49
7M87023.D	AD00298-002(5X)(	10/04/17 15:12

Data Path : G:\GcMsData\2017\GCMS_7\Data\10-04-17\
Data File : 7M87007.D
Acq On : 4 Oct 2017 8:28
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2017\GCMS_7\METHODQT\7M_0911.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Sep 11 15:43:33 2017

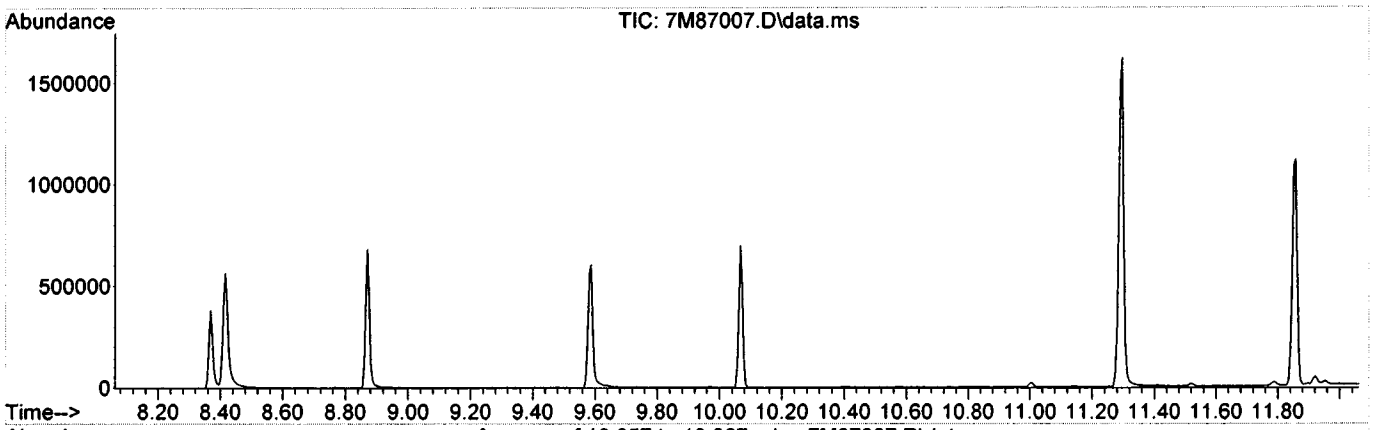

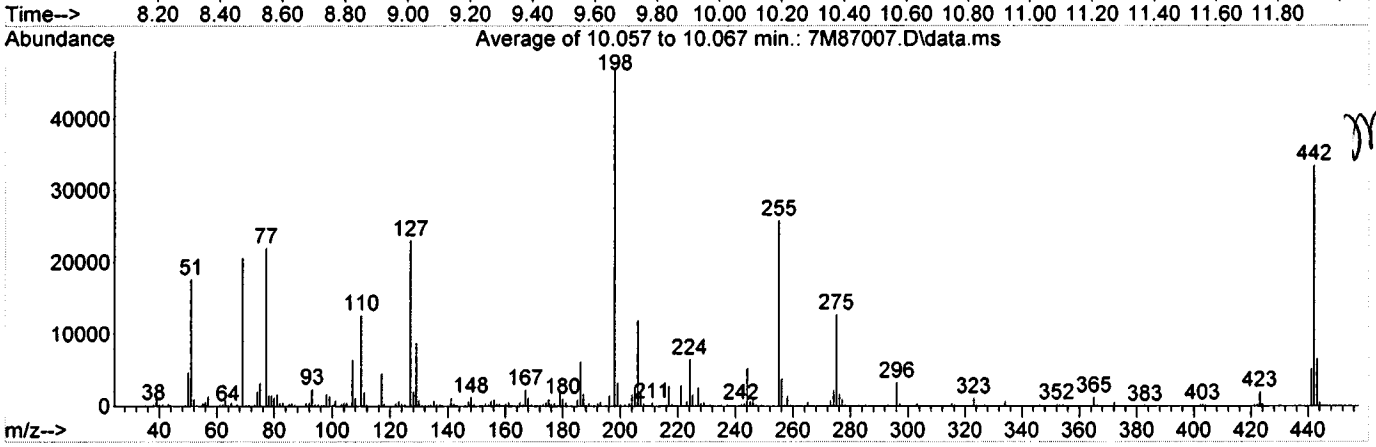

Spectrum Information: Average of 10.057 to 10.067 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.5	17679	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.7	20608	PASS
70	69	0.00	2	0.6	131	PASS
127	198	40	60	48.9	23063	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	47194	PASS
199	198	5	9	6.9	3262	PASS
275	198	10	30	27.1	12776	PASS
365	198	1	100	2.7	1289	PASS
441	443	0.01	100	79.0	5233	PASS
442	198	40	100	71.0	33524	PASS
443	442	17	23	19.8	6625	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7

Data File: 7M87024.D
Analysis Date: 10/04/17 15:50
Method: EPA 8270D

Tune Scan/Time Range: Average of 10.062 to 10.068 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	33.1	22476	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.1	26524	PASS
70	69	0.00	2	0.5	125	PASS
127	198	40	60	47.2	31996	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	67828	PASS
199	198	5	9	6.6	4478	PASS
275	198	10	30	29.0	19644	PASS
365	198	1	100	3.4	2288	PASS
441	443	0.01	100	80.7	9113	PASS
442	198	40	100	87.0	58984	PASS
443	442	17	23	19.1	11290	PASS

Data File	Sample Number	Analysis Date:
7M87025.D	CAL BNA@50PPM	10/04/17 16:13
7M87026.D	SMB63067(MS)	10/04/17 16:48
7M87027.D	SMB63071(MS)	10/04/17 17:11
7M87028.D	SMB63071	10/04/17 17:35
7M87029.D	SMB63067	10/04/17 17:58
7M87030.D	AD00346-004	10/04/17 18:22
7M87031.D	AD00346-004(MS)	10/04/17 18:45
7M87032.D	AD00346-004(MSD	10/04/17 19:09
7M87033.D	AD00172-001	10/04/17 19:32
7M87034.D	AD00172-001(MS)	10/04/17 19:55
7M87035.D	AD00172-001(MSD	10/04/17 20:19
7M87036.D	AD00374-002	10/04/17 20:42
7M87037.D	AD00361-026(5X)	10/04/17 21:05
7M87038.D	AD00361-028(5X)	10/04/17 21:29
7M87039.D	AD00361-023(3X)	10/04/17 21:52
7M87040.D	AD00275-030(3X)	10/04/17 22:15
7M87041.D	AD00275-027(3X)	10/04/17 22:38
7M87042.D	AD00275-028	10/04/17 23:01
7M87043.D	AD00275-029	10/04/17 23:25
7M87044.D	AD00275-031	10/04/17 23:48
7M87045.D	AD00275-032	10/05/17 00:11
7M87046.D	AD00275-033	10/05/17 00:35
7M87047.D	AD00275-034	10/05/17 00:58
7M87048.D	AD00286-001(3X)	10/05/17 01:21

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Data Path : G:\GcMsData\2017\GCMS_7\Data\10-0417\
Data File : 7M87024.D
Acq On : 4 Oct 2017 15:50
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2017\GCMS_7\METHODQT\7M_0911.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Sep 11 15:43:33 2017

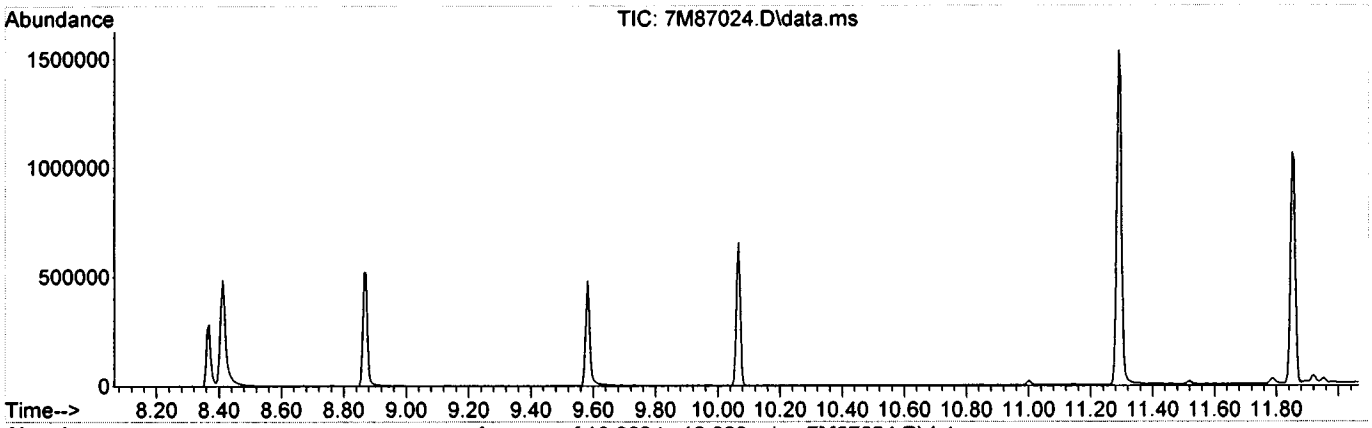

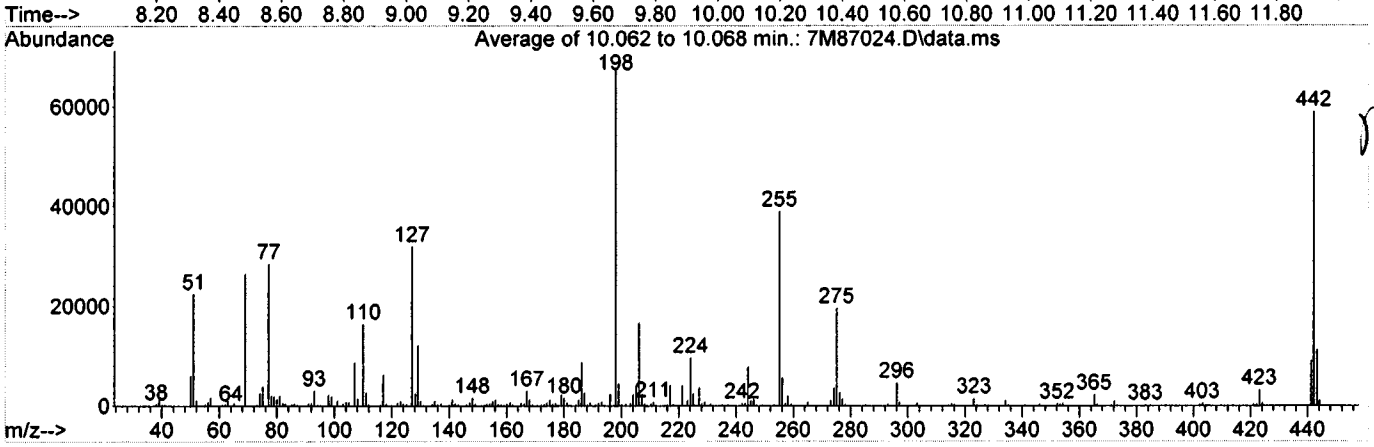

Spectrum Information: Average of 10.062 to 10.068 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	33.1	22476	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.1	26524	PASS
70	69	0.00	2	0.5	125	PASS
127	198	40	60	47.2	31996	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	67828	PASS
199	198	5	9	6.6	4478	PASS
275	198	10	30	29.0	19644	PASS
365	198	1	100	3.4	2288	PASS
441	443	0.01	100	80.7	9113	PASS
442	198	40	100	87.0	58984	PASS
443	442	17	23	19.1	11290	PASS

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Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M64985.D	CAL BNA@50PPM	09/11/17 12:53	2	10M64982.D	CAL BNA@2PPM	09/11/17 11:46
3	10M64975.D	CAL BNA@10PPM	09/11/17 09:07	4	10M64981.D	CAL BNA@20PPM	09/11/17 11:23
5	10M64979.D	CAL BNA@80PPM	09/11/17 10:39	6	10M64978.D	CAL BNA@120PPM	09/11/17 10:17
7	10M64977.D	CAL BNA@160PPM	09/11/17 09:55	8	10M64976.D	CAL BNA@196PPM	09/11/17 09:32
9	10M64983.D	CAL BNA@.5PPM	09/11/17 12:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Qua	1.0601	1.4241	1.0861	1.0124	1.0517	0.9868	1.0213	1.0228	1.0994	1.09	2.53	0.999	0.999	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.8158	2.2933	2.3681	2.4254	2.9464	2.6773	2.8615	2.9264	----	2.66	3.00	0.998	0.998	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Qua	1.5473	0.8309	1.2596	1.3839	1.5797	1.5628	1.6303	1.6459	----	1.43	2.91	0.999	1.00	19		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.6004	2.4060	2.4238	2.4521	2.7507	2.5765	2.6999	2.6699	----	2.57	4.55	0.999	0.999	5.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	0.4650	0.4192	0.4131	0.4595	0.4710	0.4712	0.4789	0.4812	----	0.457	5.37	1.00	1.00	5.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	4.1946	3.2044	3.3610	3.6873	4.2588	4.0569	4.1284	4.0212	2.7386	3.74	5.47	0.999	1.00	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	1.0256	1.1971	1.0060	0.9903	1.0462	0.9841	0.9951	0.9940	----	1.03	5.51	1.00	1.00	6.9	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.8719	3.3501	2.8392	2.8350	2.7805	2.6441	2.7274	2.5257	3.1043	2.85	5.53	0.997	0.999	8.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	3.5295	3.6054	3.2599	3.3396	3.5386	3.3201	3.4968	3.3792	----	3.43	5.44	0.999	0.999	3.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.9098	4.3703	3.6466	3.7395	3.9522	3.6327	3.8294	3.6268	----	3.84	5.45	0.998	0.998	6.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	3.1156	3.2917	2.9405	2.9842	3.1097	2.9409	3.0510	3.0170	----	3.06	5.57	0.999	0.999	3.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.9645	3.5512	2.9447	2.9673	2.8107	2.6240	2.6223	2.5794	----	2.88	5.63	0.999	0.999	11	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	3.3095	4.0112	3.3374	3.3114	3.3808	3.1679	3.2855	3.2006	----	3.38	5.71	0.999	0.999	7.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.6327	2.0319	1.6478	1.6164	1.5478	1.5055	1.5355	1.4760	----	1.62	5.76	0.999	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.5257	1.8481	1.5788	1.5523	1.4688	1.4316	1.4335	1.3917	----	1.53	5.89	0.999	1.00	9.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.9286	0.8977	0.8187	0.9072	0.9213	0.8701	0.9128	0.8910	----	0.893	5.87	0.999	0.999	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.7675	2.2017	1.7590	1.7280	1.6487	1.5653	1.6136	1.5229	----	1.73	5.98	0.998	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Qua	1.3150	1.4851	1.2953	1.2763	1.2882	1.2351	1.2753	1.2236	1.2995	1.30	5.96	0.999	0.999	5.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.8185	2.0244	1.7877	1.8420	1.7587	1.6027	1.6442	1.5205	----	1.75	6.08	0.996	0.999	9.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5931	0.6858	0.5618	0.5730	0.5731	0.5421	0.5592	0.5387	----	0.578	6.17	0.999	0.999	8.1	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.9257	0.9942	0.8902	0.9485	0.8951	0.8089	0.8282	0.7706	0.9103	0.886	6.08	0.996	0.999	8.0	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.3321	1.5286	1.3154	1.3860	1.3071	1.1715	1.2116	1.0960	1.2577	1.29	6.08	0.993	0.998	9.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1749	0.1765	0.1535	0.1647	0.1773	0.1758	0.1780	0.1719	----	0.172	6.20	0.999	1.00	4.9		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3561	0.3771	0.3389	0.3466	0.3426	0.3289	0.3378	0.3302	----	0.345	6.21	0.999	1.00	4.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6437	0.6806	0.5904	0.6293	0.6352	0.5985	0.6159	0.6028	----	0.625	6.40	0.999	0.999	4.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1968	0.1751	0.1664	0.1835	0.2057	0.1960	0.2011	0.1977	----	0.190	6.47	0.999	0.999	7.2	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Qua	0.3593	0.3845	0.3415	0.3490	0.3550	0.3333	0.3451	0.3305	0.3341	0.348	6.49	0.999	0.999	4.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.3373	----	0.0563	0.2124	0.4304	0.4464	0.4841	0.4605	----	0.347	6.59	0.997	0.997	46		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.4155	0.4646	0.4060	0.4032	0.4027	0.3696	0.3866	0.3648	----	0.402	6.57	0.997	0.998	7.7	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Qua	0.3176	0.3141	0.2888	0.3079	0.3237	0.3025	0.3103	0.2905	0.2238	0.298	6.65	0.997	0.999	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3417	0.4175	0.3351	0.3325	0.3392	0.3146	0.3229	0.3170	----	0.340	6.72	0.999	0.999	9.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Qua	1.1548	1.4265	1.1039	1.0909	1.0834	1.0003	1.0180	0.9688	1.3895	1.14	6.78	0.997	0.999	14	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Qua	0.4126	0.3984	0.3527	0.3730	0.3771	0.3415	0.3075	0.2623	0.3386	0.352	6.81	0.965	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1911	0.2262	0.1889	0.1892	0.1941	0.1840	0.1904	0.1876	----	0.194	6.87	1.00	1.00	6.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Qua	0.1169	0.0796	0.0842	0.1100	0.1201	0.1117	0.1306	0.1226	----	0.109	7.09	0.995	0.995	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.3192	0.3095	0.2919	0.2998	0.3173	0.2952	0.3091	0.2911	----	0.304	7.17	0.998	0.999	3.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.7718	0.9317	0.7760	0.7665	0.7501	0.6888	0.7168	0.6614	----	0.758	7.31	0.996	0.998	11	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.7503	0.9068	0.7604	0.7280	0.7170	0.6581	0.6895	0.6474	----	0.732	7.39	0.997	0.998	11	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (	1	0	Avg	0.7606	0.9171	0.7648	0.7520	0.7299	0.6734	0.6993	0.6513	----	0.744	7.31	0.997	0.998	11		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	1.0068	1.2421	1.0208	0.9880	0.9803	0.9112	0.9236	0.8729	----	0.993	7.67	0.997	0.999	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5551	0.6764	0.5389	0.5473	0.5291	0.5119	0.5214	0.5082	----	0.549	7.44	0.999	1.00	9.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.45
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M64985.D	CAL BNA@50PPM	09/11/17 12:53	2	10M64982.D	CAL BNA@2PPM	09/11/17 11:46
3	10M64975.D	CAL BNA@10PPM	09/11/17 09:07	4	10M64981.D	CAL BNA@20PPM	09/11/17 11:23
5	10M64979.D	CAL BNA@80PPM	09/11/17 10:39	6	10M64978.D	CAL BNA@120PPM	09/11/17 10:17
7	10M64977.D	CAL BNA@160PPM	09/11/17 09:55	8	10M64976.D	CAL BNA@196PPM	09/11/17 09:32
9	10M64983.D	CAL BNA@.5PPM	09/11/17 12:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.3169	0.1786	0.2137	0.2746	0.3327	0.3349	0.3397	0.3403	----	0.291	7.43	1.00	1.00	22	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.4023	0.3348	0.3222	0.3518	0.3695	0.3742	0.3621	0.3583	----	0.359	7.52	0.999	1.00	6.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3748	0.3509	0.3618	0.3822	0.4076	0.3630	0.3928	0.3871	----	0.378	7.56	0.999	0.999	4.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.3840	1.6338	1.3148	1.3350	1.3505	1.2815	1.3232	1.2869	----	1.36	7.59	0.999	1.00	8.4		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1345	1.4336	1.1200	1.1150	1.1211	1.0523	1.0635	1.0298	----	1.13	7.70	0.999	1.00	11	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.9966	1.2432	0.9897	0.9934	0.9537	0.8827	0.8778	0.8178	----	0.969	7.97	0.996	1.00	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.9966	1.2432	0.9897	0.9934	0.9537	0.8827	0.8778	0.8178	----	0.969	7.97	0.996	1.00	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8185	1.0169	0.7924	0.8081	0.7899	0.7441	0.7464	0.7076	----	0.803	7.76	0.997	1.00	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3705	0.3434	0.3158	0.3543	0.3635	0.3416	0.3528	0.3327	----	0.347	7.77	0.998	0.999	5.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.5320	0.5921	0.5163	0.5280	0.5122	0.4783	0.4918	0.4548	----	0.513	7.96	0.996	0.999	8.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.8223	2.0202	1.7326	1.7443	1.7724	1.6492	1.6747	1.6048	----	1.75	8.05	0.998	0.999	7.3	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3423	1.5052	1.2785	1.2958	1.2957	1.2240	1.2390	1.2181	----	1.30	7.92	0.999	1.00	7.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3057	0.2874	0.2830	0.2924	0.2953	0.2750	0.2729	0.2522	----	0.283	7.97	0.996	0.999	5.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1528	1.4734	1.1475	1.1404	1.1088	1.0430	1.0533	1.0084	----	1.14	8.20	0.998	1.00	13	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3307	0.2819	0.2837	0.3191	0.2996	0.2687	0.2623	0.2404	----	0.286	8.12	0.988	0.999	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1306	----	0.0200	0.0754	0.1635	0.1745	0.1937	0.1849	----	0.135	8.21	0.996	0.997	48	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Qua	1.6995	2.0874	1.6507	1.6477	1.6446	1.5310	1.5765	1.5220	2.0824	1.72	8.35	0.999	0.999	13	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.4205	0.3332	0.3442	0.3973	0.4201	0.3945	0.4245	0.4015	----	0.392	8.33	0.999	0.999	8.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2458	0.1516	0.1818	0.2149	0.2361	0.2268	0.2381	0.2282	----	0.215	8.25	0.999	0.999	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3519	0.3085	0.3092	0.3207	0.3612	0.3364	0.3591	0.3514	----	0.337	8.46	0.999	0.999	6.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.3611	1.6409	1.3348	1.3287	1.3033	1.2027	1.2426	1.1614	----	1.32	8.67	0.997	0.999	11	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6580	0.7461	0.6362	0.6538	0.6525	0.5974	0.6318	0.6018	----	0.647	8.66	0.998	0.998	7.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2988	1.4701	1.2244	1.2473	1.3046	1.2115	1.2728	1.2082	----	1.28	8.55	0.998	0.999	6.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3883	0.3314	0.3161	0.3661	0.3795	0.3588	0.3905	0.3623	----	0.362	8.67	0.998	0.998	7.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.2774	0.2526	0.2219	0.2541	0.2817	0.2535	0.2816	0.2600	----	0.260	9.30	0.996	0.996	7.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.1287	----	0.0602	0.0967	0.1430	0.1413	0.1508	0.1538	----	0.125	8.71	0.999	1.00	28	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6800	0.7467	0.6592	0.6429	0.6427	0.6143	0.6231	0.6178	----	0.653	8.77	0.999	1.00	6.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.1188	0.0928	0.0950	0.1037	0.1190	0.1173	0.1225	0.1263	----	0.112	8.90	0.999	1.00	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.7209	0.7381	0.6709	0.6597	0.6680	0.6424	0.6384	0.7047	----	0.680	8.81	0.997	0.998	5.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2335	0.2346	0.2167	0.2166	0.2289	0.2213	0.2260	0.2276	----	0.226	9.15	1.00	1.00	3.1	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2472	0.2937	0.2326	0.2304	0.2412	0.2352	0.2438	0.2446	----	0.246	9.21	0.998	0.999	8.2	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.4609	0.4198	0.4175	0.4267	0.4241	0.3986	0.3939	0.3780	----	0.415	9.49	0.997	0.999	6.1	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1327	----	0.0634	0.0935	0.1449	0.1475	0.1555	0.1591	----	0.128	9.41	0.999	1.00	28	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.1755	1.4418	1.1589	1.1476	1.1145	1.0470	1.0745	1.0391	----	1.15	9.64	0.999	0.999	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.1826	1.3522	1.1454	1.1359	1.1420	1.0855	1.0955	1.0654	----	1.15	9.70	0.999	1.00	7.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.1167	1.2016	1.0846	1.0783	1.0793	1.0072	1.0476	0.9986	----	1.08	9.86	0.998	0.999	6.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Qua	1.2786	1.0950	1.0500	1.1718	1.2526	1.1956	1.2143	1.1779	1.0069	1.16	10.24	0.999	1.00	7.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.3030	1.3564	1.2143	1.2290	1.2383	1.1591	1.2105	1.1811	----	1.24	10.96	0.999	0.999	5.2	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.2157	1.2944	1.1433	1.1157	1.1728	1.0654	1.0790	1.0783	----	1.15	11.22	0.998	0.999	6.9	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.6028	0.2147	0.2860	0.4457	0.5716	0.5320	0.4952	0.4772	----	0.453	11.11	0.990	0.999	30		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6331	0.6402	0.5793	0.5758	0.6442	0.5962	0.6191	0.6366	----	0.616	11.41	0.999	0.999	4.5		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.45
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M64985.D	CAL BNA@50PPM	09/11/17 12:53	2	10M64982.D	CAL BNA@2PPM	09/11/17 11:46
3	10M64975.D	CAL BNA@10PPM	09/11/17 09:07	4	10M64981.D	CAL BNA@20PPM	09/11/17 11:23
5	10M64979.D	CAL BNA@80PPM	09/11/17 10:39	6	10M64978.D	CAL BNA@120PPM	09/11/17 10:17
7	10M64977.D	CAL BNA@160PPM	09/11/17 09:55	8	10M64976.D	CAL BNA@196PPM	09/11/17 09:32
9	10M64983.D	CAL BNA@.5PPM	09/11/17 12:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2675	0.2626	0.2320	0.2338	0.2708	0.2492	0.2627	0.2633	-----	0.255	11.34	0.999	0.999	5.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4939	0.4360	0.4286	0.4478	0.4981	0.4670	0.4873	0.4749	-----	0.467	11.74	0.999	0.999	5.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.5170	0.3779	0.3797	0.4469	0.5229	0.4856	0.5064	0.4932	-----	0.466	11.99	0.999	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.4307	0.3343	0.3620	0.3791	0.4378	0.4076	0.4252	0.4153	-----	0.399	12.09	0.999	0.999	9.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.3446	0.3131	0.3185	0.3142	0.3170	0.3104	0.2921	0.2742	-----	0.311	12.61	0.993	1.00	6.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.1220	1.2411	1.0420	1.0490	1.0988	1.0490	1.0776	1.0655	-----	1.09	12.63	1.00	1.00	6.0	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.0865	1.3022	1.0475	1.0389	1.0540	0.9951	1.0266	0.9732	-----	1.07	12.68	0.999	0.999	9.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.7123	0.4982	0.5454	0.6422	0.7132	0.6651	0.6677	0.6472	-----	0.636	12.69	0.998	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.2986	0.8085	0.8517	1.1209	1.3242	1.2542	1.2821	1.2592	-----	1.15	13.43	0.999	0.999	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1509	1.3112	1.1196	1.1035	1.0958	1.0661	1.1702	1.2210	-----	1.15	13.84	0.997	0.999	6.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1195	1.2649	1.1197	1.1011	1.1515	1.0525	1.1256	1.1797	-----	1.14	13.87	0.997	0.998	5.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.1533	1.1851	1.0326	1.0758	1.1462	1.0993	1.1317	1.1143	-----	1.12	14.18	1.00	1.00	4.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.3004	1.3209	1.1994	1.1920	1.2929	1.2225	1.3468	1.3039	-----	1.27	15.50	0.999	0.999	4.6	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.1028	1.1541	1.0048	1.0038	1.0925	1.0420	1.1390	1.1102	-----	1.08	15.52	0.998	0.998	5.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.0875	1.2182	1.0414	1.0348	1.0840	1.0144	1.1246	1.1031	-----	1.09	15.86	0.997	0.998	5.9	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.45
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Form 6
Initial Calibration

Method: EPA 8270D

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M86409.D	CAL BNA@50PPM	09/11/17 13:22	2	7M86411.D	CAL BNA@2PPM	09/11/17 14:09
3	7M86403.D	CAL BNA@10PPM	09/11/17 11:02	4	7M86410.D	CAL BNA@20PPM	09/11/17 13:46
5	7M86407.D	CAL BNA@80PPM	09/11/17 12:35	6	7M86406.D	CAL BNA@120PPM	09/11/17 12:12
7	7M86405.D	CAL BNA@160PPM	09/11/17 11:49	8	7M86404.D	CAL BNA@196PPM	09/11/17 11:25
9	7M86413.D	CAL BNA@.5PPM	09/11/17 15:05				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Qua	1.0569	1.7276	1.2302	1.1017	1.0647	1.0295	1.0602	1.0125	0.4239	1.08	2.71	0.999	0.999	31		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Qua	3.2878	2.9063	3.1981	3.1833	3.1918	3.1680	3.2757	3.4070	----	3.20	3.19	0.998	1.00	4.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Qua	1.8639	1.4640	1.6667	1.6920	1.8879	1.9515	1.9631	1.9935	----	1.81	3.10	1.00	1.00	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.6190	2.3063	2.3331	2.4168	2.7055	2.8077	2.9298	2.9371	----	2.63	4.69	0.994	1.00	9.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	0.5451	0.5814	0.5647	0.5725	0.5419	0.5192	0.5011	0.4768	----	0.538	5.51	0.997	1.00	6.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Qua	4.5737	3.3974	3.6271	4.0988	4.5567	4.6557	4.6932	4.6896	2.7945	4.12	5.60	1.00	1.00	17		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.9143	1.0557	0.8934	0.9095	0.9118	0.9028	0.9308	0.9082	----	0.928	5.64	1.00	1.00	5.7	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Qua	2.8584	3.2662	2.9370	2.9766	2.7998	2.8107	2.8505	2.7884	3.1942	2.94	5.65	1.00	1.00	6.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	3.6727	2.9597	3.2880	3.4887	3.7442	3.8553	3.9837	4.0427	----	3.63	5.57	0.999	1.00	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	4.2285	3.7372	3.8210	4.0792	4.2048	4.3130	4.4020	4.4230	----	4.15	5.58	1.00	1.00	6.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.8003	2.5786	2.6268	2.7793	2.8375	2.9035	2.9783	2.9558	----	2.81	5.70	1.00	1.00	5.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.6209	3.3517	2.7773	2.7059	2.5578	2.4582	2.4418	2.2988	----	2.65	5.76	0.997	1.00	12	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.9343	3.4856	3.0098	3.0052	2.9011	2.9044	2.9310	2.8597	----	3.00	5.84	1.00	1.00	6.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.6368	2.0341	1.6261	1.5822	1.5787	1.5016	1.5238	1.4973	----	1.62	5.90	0.999	1.00	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.5532	1.9323	1.5559	1.5379	1.5129	1.4374	1.4608	1.4319	----	1.55	6.02	0.999	1.00	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	1.0640	0.8225	0.9793	0.9714	1.0622	1.0454	1.0645	1.0828	----	1.01	6.00	1.00	1.00	8.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.8832	2.2754	1.8928	1.8761	1.8026	1.7062	1.7045	1.6993	----	1.86	6.11	0.999	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Qua	1.5099	1.2841	1.3758	1.4443	1.4800	1.4437	1.4723	1.4896	1.1138	1.40	6.09	1.00	1.00	9.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	2.1802	2.3715	2.1986	2.1997	2.0749	1.9370	1.8907	1.8463	----	2.09	6.21	0.997	1.00	8.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5909	0.7210	0.5835	0.5652	0.5829	0.5569	0.5713	0.5600	----	0.592	6.30	1.00	1.00	9.1	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	1.1875	1.2152	1.2006	1.2134	1.1220	1.0403	1.0093	0.9828	1.0408	1.11	6.21	0.995	1.00	8.5	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Qua	1.5537	1.4489	1.4986	1.4981	1.4910	1.4059	1.3855	1.3639	0.9316	1.40	6.21	0.998	1.00	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1808	0.1687	0.1603	0.1633	0.1781	0.1742	0.1794	0.1754	----	0.173	6.33	1.00	1.00	4.4		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.4224	0.4736	0.4125	0.3965	0.4100	0.3891	0.3934	0.3851	----	0.410	6.34	0.999	1.00	7.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.8012	0.7702	0.7564	0.7507	0.7837	0.7476	0.7561	0.7460	----	0.764	6.54	0.999	1.00	2.6	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Qua	0.2074	0.1553	0.1810	0.1793	0.2074	0.2031	0.2087	0.2062	----	0.194	6.60	1.00	1.00	10	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Qua	0.3984	0.3569	0.3742	0.3747	0.3875	0.3729	0.3794	0.3704	0.2577	0.364	6.63	0.999	1.00	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.2758	----	0.0087	0.0597	0.3846	0.4587	0.5015	0.5366	----	0.318	6.71	0.992	0.999	67		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.4745	0.5103	0.4630	0.4533	0.4582	0.4345	0.4365	0.4278	----	0.457	6.70	0.999	1.00	5.8	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Qua	0.3195	0.2359	0.2745	0.2891	0.3151	0.3071	0.3126	0.3043	0.1719	0.281	6.79	1.00	1.00	17	0.20 a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3371	0.4113	0.3348	0.3255	0.3256	0.3126	0.3198	0.3102	----	0.335	6.85	0.999	1.00	9.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Qua	1.1200	1.4644	1.1372	1.0920	1.0769	1.0166	1.0202	0.9886	1.4970	1.16	6.92	0.999	1.00	16	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4080	0.3592	0.3710	0.3812	0.3758	0.4690	0.3988	----	0.2782	0.380	6.95	0.987	0.987	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0		0.50
Hexachlorobutadiene	1	0	Avg	0.1862	0.2124	0.1797	0.1733	0.1794	0.1725	0.1770	0.1716	----	0.182	7.01	0.999	0.999	7.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Qua	0.1384	0.0763	0.1207	0.1242	0.1427	0.1417	0.1467	0.1618	----	0.132	7.22	0.994	0.998	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Qua	0.3675	0.3174	0.3321	0.3311	0.3631	0.3545	0.3612	0.3615	----	0.349	7.32	1.00	1.00	5.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.8052	0.9515	0.8052	0.7761	0.7783	0.7444	0.7380	0.7121	----	0.789	7.46	0.998	1.00	9.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.7774	0.9143	0.7711	0.7461	0.7402	0.7069	0.7128	0.6891	----	0.757	7.54	0.999	1.00	9.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (	1	0	Avg	0.7904	0.9328	0.7873	0.7616	0.7582	0.7259	0.7250	0.7004	----	0.773	7.46	0.999	1.00	9.3		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	1.0401	1.2568	1.0536	1.0102	0.9946	0.9579	0.9549	0.9317	----	1.03	7.83	0.999	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5442	0.6401	0.5074	0.5124	0.5177	0.4829	0.4927	0.4779	----	0.522	7.59	0.998	0.999	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.7
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M86409.D	CAL BNA@50PPM	09/11/17 13:22	2	7M86411.D	CAL BNA@2PPM	09/11/17 14:09
3	7M86403.D	CAL BNA@10PPM	09/11/17 11:02	4	7M86410.D	CAL BNA@20PPM	09/11/17 13:46
5	7M86407.D	CAL BNA@80PPM	09/11/17 12:35	6	7M86406.D	CAL BNA@120PPM	09/11/17 12:12
7	7M86405.D	CAL BNA@160PPM	09/11/17 11:49	8	7M86404.D	CAL BNA@196PPM	09/11/17 11:25
9	7M86413.D	CAL BNA@.5PPM	09/11/17 15:05				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.3114	0.1344	0.2053	0.2377	0.3163	0.3054	0.3207	0.3104	-----	0.268	7.58	0.999	0.999	26	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Qua	0.3809	0.2829	0.3097	0.3290	0.3801	0.3693	0.3645	0.3531	-----	0.346	7.67	0.998	1.00	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Qua	0.3899	0.3047	0.3681	0.3721	0.3814	0.3678	0.3927	0.3897	-----	0.371	7.71	0.999	0.999	7.7	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.3632	1.5825	1.3119	1.3073	1.3272	1.2405	1.2584	1.2185	-----	1.33	7.74	0.999	1.00	8.6		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Qua	1.1476	1.3218	1.0959	1.0862	1.0894	1.0192	1.0224	0.9866	-----	1.10	7.85	0.998	0.999	9.6	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	1.0132	1.1686	1.0071	0.9897	0.9578	0.8828	0.8711	0.8101	-----	0.963	8.13	0.995	1.00	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	1.0132	1.1686	1.0071	0.9897	0.9578	0.8828	0.8711	0.8101	-----	0.963	8.13	0.995	1.00	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8007	0.9205	0.7889	0.7735	0.7664	0.7171	0.7150	0.6845	-----	0.771	7.91	0.997	1.00	9.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.4406	0.3650	0.4008	0.4078	0.4240	0.3970	0.3954	0.3818	-----	0.402	7.93	0.998	1.00	5.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.5583	0.5743	0.5450	0.5400	0.5412	0.5101	0.5097	0.4885	-----	0.533	8.11	0.998	1.00	5.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.8267	1.9410	1.7376	1.7398	1.7476	1.6343	1.6372	1.5881	-----	1.73	8.21	0.998	1.00	6.6	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3940	1.5062	1.3589	1.3316	1.3617	1.2812	1.2858	1.2561	-----	1.35	8.07	0.999	1.00	5.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3213	0.2703	0.2946	0.3078	0.3114	0.2918	0.2851	0.2669	-----	0.294	8.13	0.995	1.00	6.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1834	1.3863	1.1575	1.1296	1.1341	1.0487	1.0433	1.0071	-----	1.14	8.36	0.997	0.999	10	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Qua	0.3477	0.2591	0.3199	0.3270	0.3409	0.3161	0.3002	0.2879	-----	0.312	8.28	0.994	1.00	9.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1251	-----	0.0201	0.0486	0.1647	0.1715	0.1893	0.1898	-----	0.130	8.37	0.997	0.998	53	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Qua	1.7181	2.1102	1.7063	1.6642	1.6620	1.5520	1.5464	1.4992	2.1149	1.73	8.52	0.998	1.00	13	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Qua	0.4499	0.3098	0.3909	0.4035	0.4500	0.4352	0.4410	0.4390	-----	0.415	8.49	1.00	1.00	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2678	0.1064	0.1833	0.2272	0.2784	0.2808	0.2856	0.2928	-----	0.240	8.41	0.999	1.00	27	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Qua	0.3547	0.2158	0.3115	0.3107	0.3724	0.3631	0.3664	0.3614	-----	0.332	8.63	1.00	1.00	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.3871	1.5767	1.3733	1.3429	1.3385	1.2466	1.2354	1.1928	-----	1.34	8.84	0.998	1.00	9.0	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6822	0.7906	0.6586	0.6436	0.6632	0.6342	0.6473	0.6299	-----	0.669	8.83	0.999	1.00	7.8	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.3893	1.3782	1.3233	1.3223	1.3738	1.3138	1.3144	1.2861	-----	1.34	8.71	0.999	1.00	2.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Qua	0.4071	0.2895	0.3768	0.3682	0.4058	0.3878	0.3919	0.3887	-----	0.377	8.84	1.00	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Qua	0.2893	0.2327	0.2526	0.2622	0.2942	0.2894	0.2934	0.2907	-----	0.276	9.46	1.00	1.00	8.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.1206	-----	0.0493	0.0743	0.1333	0.1352	0.1441	0.1442	-----	0.114	8.87	0.999	0.999	33	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6456	0.6645	0.6202	0.6184	0.6244	0.5865	0.5934	0.5810	-----	0.617	8.94	0.999	1.00	4.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.1046	0.0601	0.0841	0.0930	0.1096	0.1081	0.1141	0.1153	-----	0.0987	9.07	0.999	1.00	19		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.7945	0.7795	0.7536	0.7626	0.7560	0.7011	0.7019	0.6713	-----	0.740	8.98	0.997	1.00	5.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2204	0.2281	0.2030	0.2075	0.2207	0.2158	0.2210	0.2208	-----	0.217	9.31	1.00	1.00	3.8	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2404	0.2720	0.2249	0.2273	0.2376	0.2321	0.2389	0.2364	-----	0.239	9.39	0.999	0.999	6.1	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.4542	0.4015	0.4146	0.4297	0.4288	0.3851	0.3813	0.3497	-----	0.406	9.66	0.991	0.999	8.2	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1132	-----	0.0547	0.0669	0.1336	0.1409	0.1497	0.1532	-----	0.116	9.59	0.998	1.00	35	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.1356	1.3962	1.1331	1.1027	1.0966	1.0266	1.0277	1.0034	-----	1.12	9.82	0.998	1.00	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.1544	1.2164	1.1237	1.1108	1.1206	1.0514	1.0574	1.0187	-----	1.11	9.88	0.998	1.00	5.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.1165	1.1463	1.0944	1.0685	1.0898	1.0369	1.0306	1.0114	-----	1.07	10.04	0.999	1.00	4.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Qua	1.2994	0.9796	1.1302	1.1783	1.2849	1.2380	1.2320	1.1992	0.7501	1.14	10.42	0.999	1.00	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.2958	1.3448	1.2405	1.2340	1.2908	1.2338	1.2236	1.2027	-----	1.26	11.15	0.999	1.00	3.8	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.1463	1.1185	1.0327	1.0654	1.1137	1.0672	1.0823	1.0533	-----	1.08	11.41	0.999	1.00	3.5	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.5749	0.1828	0.3492	0.4147	0.5808	0.5470	0.5042	0.4748	-----	0.454	11.30	0.988	0.999	30		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6063	0.5887	0.5356	0.5524	0.6119	0.6009	0.6220	0.6334	-----	0.594	11.59	0.999	1.00	5.7		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.7
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

7092827 0114

Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M86409.D	CAL BNA@50PPM	09/11/17 13:22	2	7M86411.D	CAL BNA@2PPM	09/11/17 14:09
3	7M86403.D	CAL BNA@10PPM	09/11/17 11:02	4	7M86410.D	CAL BNA@20PPM	09/11/17 13:46
5	7M86407.D	CAL BNA@80PPM	09/11/17 12:35	6	7M86406.D	CAL BNA@120PPM	09/11/17 12:12
7	7M86405.D	CAL BNA@160PPM	09/11/17 11:49	8	7M86404.D	CAL BNA@196PPM	09/11/17 11:25
9	7M86413.D	CAL BNA@.5PPM	09/11/17 15:05				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2491	0.2314	0.2154	0.2259	0.2500	0.2502	0.2570	0.2556	-----	0.242	11.53	1.00	1.00	6.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4932	0.3884	0.4124	0.4352	0.4965	0.4864	0.5021	0.4922	-----	0.463	11.93	0.999	0.999	9.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.5238	0.3139	0.4132	0.4464	0.5280	0.5138	0.5252	0.5156	-----	0.473	12.18	1.00	1.00	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.4200	0.2380	0.3282	0.3566	0.4266	0.4132	0.4258	0.4104	-----	0.377	12.28	0.999	0.999	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.3786	0.2498	0.3294	0.3260	0.3830	0.3651	0.3341	0.3180	-----	0.336	12.80	0.991	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.1504	1.2133	1.0945	1.0751	1.1423	1.0972	1.1018	1.0812	-----	1.12	12.83	0.999	1.00	4.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.0585	1.2638	1.0406	1.0279	1.0493	0.9917	0.9954	0.9572	-----	1.05	12.87	0.999	1.00	8.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Qua	0.7134	0.4678	0.6044	0.6299	0.6972	0.6497	0.6410	0.6131	-----	0.627	12.87	0.996	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.3528	0.6832	1.0555	1.0930	1.3747	1.3346	1.3539	1.2875	-----	1.19	13.63	0.998	0.999	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.3013	1.2146	1.1738	1.1429	1.2726	1.1706	1.2074	1.2169	-----	1.21	14.07	0.999	0.999	4.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.2503	1.3108	1.0829	1.1410	1.2341	1.0462	1.1616	1.1014	-----	1.17	14.10	0.995	0.995	7.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.1784	1.1015	1.0550	1.0510	1.1703	1.1367	1.1552	1.1344	-----	1.12	14.43	1.00	1.00	4.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.1836	1.1540	1.0734	1.0760	1.2041	1.1535	1.1925	1.1697	-----	1.15	15.83	0.999	0.999	4.4	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0018	0.9772	0.9137	0.9199	1.0225	0.9669	0.9972	0.9756	-----	0.972	15.85	0.999	0.999	3.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9632	1.0359	0.9052	0.8931	0.9783	0.9275	0.9570	0.9361	-----	0.950	16.21	0.999	0.999	4.8	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.7
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M86986.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/3/2017 3:31:00 P Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.66	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.70	41.50	50	**		1.079	0.895	17.00	
Pyridine	1	0		3.18	51.33	50	**		3.202	3.188	2.67	
N-Nitrosodimethylamine	1	0		3.10	49.25	50	**		1.810	1.841	1.50	
2-Fluorophenol	1	0	S	4.69	56.03	50	**		2.632	2.949	12.06	
Benzaldehyde	1	0		5.51	32.57	50	20	0.01	0.538	0.350	34.85	C1
Aniline	1	0		5.60	51.85	50	**		4.121	4.719	3.70	
Pentachloroethane	1	0		5.64	56.04	50	**	0.05	0.928	1.041	12.09	
bis(2-Chloroethyl)ether	1	0		5.65	52.82	50	20	0.7	2.942	3.009	5.64	
Phenol-d5	1	0	S	5.57	55.43	50	**		3.629	4.024	10.86	
Phenol	1	0		5.59	53.44	50	20	0.8	4.151	4.436	6.87	
2-Chlorophenol	1	0		5.70	59.15	50	20	0.8	2.808	3.321	18.30	
N-Decane	1	0		5.75	51.07	50	**	0.05	2.652	2.708	2.13	
1,3-Dichlorobenzene	1	0		5.83	58.33	50	**		3.004	3.505	16.67	
1,4-Dichlorobenzene-d4	1	0	I	5.88	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.90	53.21	50	20		1.623	1.727	6.41	
1,2-Dichlorobenzene	1	0		6.02	52.51	50	**		1.553	1.631	5.02	
Benzyl alcohol	1	0		5.99	50.88	50	**		1.012	1.029	1.75	
bis(2-chloroisopropyl)ether	1	0		6.10	44.75	50	20	0.01	1.855	1.660	10.50	
2-Methylphenol	1	0		6.09	52.27	50	20	0.7	1.402	1.522	4.54	
Acetophenone	1	0		6.21	45.97	50	20	0.01	2.087	1.919	8.06	
Hexachloroethane	1	0		6.29	51.14	50	20	0.3	0.592	0.605	2.28	
N-Nitroso-di-n-propylamine	1	0		6.21	50.90	50	20	0.5	1.112	1.133	1.81	
3&4-Methylphenol	1	0		6.21	52.51	50	20		1.398	1.571	5.02	
Naphthalene-d8	1	0	I	6.89	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.33	28.61	25	**		0.173	0.197	14.43	
Nitrobenzene	1	0		6.34	48.39	50	20	0.2	0.410	0.397	3.21	
Isophorone	1	0		6.53	49.39	50	20	0.4	0.764	0.755	1.23	
2-Nitrophenol	1	0		6.59	55.86	50	20	0.1	0.194	0.229	11.72	
2,4-Dimethylphenol	1	0		6.62	52.49	50	20	0.2	0.364	0.407	4.98	
Benzoic Acid	1	0		6.70	20.02	50	**		0.318	0.045	59.96	
bis(2-Chloroethoxy)methane	1	0		6.69	49.97	50	20	0.3	0.457	0.457	0.05	
2,4-Dichlorophenol	1	0		6.78	56.81	50	20	0.2	0.281	0.358	13.62	
1,2,4-Trichlorobenzene	1	0		6.85	55.14	50	**		0.335	0.369	10.27	
Naphthalene	1	0		6.90	53.99	50	20	0.7	1.157	1.171	7.99	
4-Chloroaniline	1	0		6.94	62.72	50	20	0.01	0.380	0.477	25.44	C1
Hexachlorobutadiene	1	0		7.00	59.21	50	20	0.01	0.182	0.215	18.43	
Caprolactam	1	0		7.21	47.06	50	20	0.01	0.132	0.122	5.89	
4-Chloro-3-methylphenol	1	0		7.31	51.94	50	20	0.2	0.349	0.372	3.88	
2-Methylnaphthalene	1	0		7.44	54.81	50	**	0.4	0.789	0.865	9.63	
1-Methylnaphthalene	1	0		7.52	54.20	50	**	0.4	0.757	0.821	8.40	
Methylnaphthalenes	1	0		7.44	109.13	100	**			0.843	9.13	
1,1'-Biphenyl	1	0		7.81	54.60	50	20	0.01	1.025	1.119	9.21	
Acenaphthene-d10	1	0	I	8.32	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.58	49.76	50	20	0.01	0.522	0.519	0.48	
Hexachlorocyclopentadiene	1	0		7.57	17.40	50	20	0.05	0.268	0.107	65.20	C1
2,4,6-Trichlorophenol	1	0		7.67	53.74	50	20	0.2	0.346	0.410	7.48	
2,4,5-Trichlorophenol	1	0		7.71	57.63	50	20	0.2	0.371	0.432	15.26	
2-Fluorobiphenyl	1	0	S	7.73	27.49	25	**		1.326	1.459	9.98	
2-Chloronaphthalene	1	0		7.84	54.01	50	20	0.8	1.096	1.186	8.01	
1,4-Dimethylnaphthalene	1	0		8.12	55.58	50	**		0.963	1.070	11.16	
Dimethylnaphthalenes	1	0		8.12	55.58	50	20			1.070	11.16	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M86986.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/3/2017 3:31:00 P Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.90	49.22	50	**		0.771	0.759	1.55	
2-Nitroaniline	1	0		7.91	49.55	50	20	0.01	0.402	0.398	0.89	
Coumarin	1	0		8.10	51.95		**		0.533			
Acenaphthylene	1	0		8.20	54.19	50	20	0.9	1.732	1.877	8.37	
Dimethylphthalate	1	0		8.06	53.89	50	20	0.01	1.347	1.452	7.77	
2,6-Dinitrotoluene	1	0		8.12	57.69	50	20	0.2	0.294	0.339	15.38	
Acenaphthene	1	0		8.35	53.64	50	20	0.9	1.136	1.219	7.27	
3-Nitroaniline	1	0		8.27	53.80	50	20	0.01	0.312	0.370	7.59	
2,4-Dinitrophenol	1	0		8.37	41.26	50	20	0.01	0.130	0.106	17.48	
Dibenzofuran	1	0		8.51	53.95	50	20	0.8	1.730	1.799	7.91	
2,4-Dinitrotoluene	1	0		8.48	52.77	50	20	0.2	0.415	0.467	5.53	
4-Nitrophenol	1	0		8.41	38.35	50	20	0.01	0.240	0.204	23.29	C1
2,3,4,6-Tetrachlorophenol	1	0		8.62	49.17	50	20	0.01	0.332	0.358	1.67	
Fluorene	1	0		8.83	54.84	50	20	0.9	1.337	1.466	9.69	
4-Chlorophenyl-phenylether	1	0		8.82	54.89	50	20	0.4	0.669	0.734	9.77	
Diethylphthalate	1	0		8.69	53.53	50	20	0.01	1.338	1.432	7.05	
4-Nitroaniline	1	0		8.83	51.02	50	20	0.01	0.377	0.408	2.05	
Atrazine	1	0		9.45	47.82	50	20	0.01	0.276	0.278	4.36	
Phenanthrene-d10	1	0	I	9.78	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.87	45.83	50	20	0.01	0.114	0.114	8.35	
n-Nitrosodiphenylamine	1	0		8.92	56.14	50	20	0.01	0.617	0.693	12.29	
2,4,6-Tribromophenol	1	0	S	9.06	64.92	50	**		0.099	0.137	29.83	
1,2-Diphenylhydrazine	1	0		8.97	53.23	50	**		0.740	0.788	6.47	
4-Bromophenyl-phenylether	1	0		9.30	59.74	50	20	0.1	0.217	0.260	19.48	
Hexachlorobenzene	1	0		9.38	60.68	50	20	0.1	0.239	0.290	21.36	C1
N-Octadecane	1	0		9.63	53.09	50	**	0.05	0.406	0.431	6.19	
Pentachlorophenol	1	0		9.58	29.90	50	20	0.05	0.116	0.071	40.21	C1
Phenanthrene	1	0		9.81	53.31	50	20	0.7	1.115	1.189	6.62	
Anthracene	1	0		9.86	55.59	50	20	0.7	1.107	1.230	11.18	
Carbazole	1	0		10.04	52.73	50	20	0.01	1.074	1.133	5.46	
Di-n-butylphthalate	1	0		10.40	53.10	50	20	0.01	1.144	1.366	6.20	
Fluoranthene	1	0		11.14	54.28	50	20	0.6	1.258	1.366	8.55	
Chrysene-d12	1	0	I	12.84	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.41	56.00	50	20	0.6	1.085	1.215	12.01	
Benzidine	1	0		11.29	52.07	50	**		0.454	0.611	4.13	
Terphenyl-d14	1	0	S	11.58	28.89	25	**		0.594	0.686	15.56	
4,4'-DDE	1	0		11.52	58.24		**		0.242			
4,4'-DDD	1	0		11.92	59.15		**		0.463			
Butylbenzylphthalate	1	0		12.17	52.07	50	20	0.01	0.473	0.542	4.14	
4,4'-DDT	1	0		12.27	56.43		**		0.377			
3,3'-Dichlorobenzidine	1	0		12.79	63.53	50	20	0.01	0.336	0.489	27.06	C1
Benzo[a]anthracene	1	0		12.83	53.48	50	20	0.8	1.120	1.197	6.95	
Chrysene	1	0		12.87	50.19	50	20	0.7	1.048	1.052	0.37	
bis(2-Ethylhexyl)phthalate	1	0		12.86	52.97	50	20	0.01	0.627	0.741	5.94	
Perylene-d12	1	0	I	14.47	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.60	52.25	50	20	0.01	1.192	1.434	4.50	
Benzo[b]fluoranthene	1	0		14.05	55.68	50	20	0.7	1.213	1.350	11.35	
Benzo[k]fluoranthene	1	0		14.08	50.27	50	20	0.7	1.166	1.172	0.54	
Benzo[a]pyrene	1	0		14.42	53.96	50	20	0.7	1.123	1.212	7.92	
Indeno[1,2,3-cd]pyrene	1	0		15.82	56.09	50	20	0.5	1.151	1.291	12.18	
Dibenzo[a,h]anthracene	1	0		15.84	56.31	50	20	0.4	0.972	1.095	12.62	
Benzo[g,h,i]perylene	1	0		16.21	56.88	50	20	0.5	0.950	1.080	13.75	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M86986.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/3/2017 3:31:00 P Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.773	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.963	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M65316.D **Instrument:** GCMS 10

Cont Calibration Date/Time 10/4/2017 8:55:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.49	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.52	47.91	50	**		1.085	0.981	4.17	
Pyridine	1	0		3.01	43.06	50	**		2.664	2.294	13.89	
N-Nitrosodimethylamine	1	0		2.90	50.19	50	**		1.430	1.533	0.39	
2-Fluorophenol	1	0	S	4.55	48.23	50	**		2.572	2.481	3.54	
Benzaldehyde	1	0		5.37	39.94	50	20	0.01	0.457	0.365	20.12	
Aniline	1	0		5.47	55.01	50	**		3.739	4.114	10.03	
Pentachloroethane	1	0		5.51	49.18	50	**	0.05	1.030	1.013	1.64	
bis(2-Chloroethyl)ether	1	0		5.52	48.59	50	20	0.7	2.853	2.773	2.82	
Phenol-d5	1	0	S	5.43	46.19	50	**		3.434	3.172	7.63	
Phenol	1	0		5.44	45.76	50	20	0.8	3.838	3.513	8.47	
2-Chlorophenol	1	0		5.57	48.79	50	20	0.8	3.056	2.982	2.43	
N-Decane	1	0		5.62	49.28	50	**	0.05	2.883	2.842	1.43	
1,3-Dichlorobenzene	1	0		5.70	49.37	50	**		3.376	3.333	1.27	
1,4-Dichlorobenzene-d4	1	0	I	5.75	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.76	48.71	50	20		1.624	1.582	2.58	
1,2-Dichlorobenzene	1	0		5.89	48.94	50	**		1.529	1.497	2.11	
Benzyl alcohol	1	0		5.87	31.95	50	**		0.893	0.571	36.11	
bis(2-chloroisopropyl)ether	1	0		5.97	47.89	50	20	0.01	1.726	1.653	4.23	
2-Methylphenol	1	0		5.96	48.69	50	20	0.7	1.299	1.263	2.63	
Acetophenone	1	0		6.08	49.90	50	20	0.01	1.750	1.746	0.20	
Hexachloroethane	1	0		6.17	48.21	50	20	0.3	0.578	0.558	3.57	
N-Nitroso-di-n-propylamine	1	0		6.08	52.30	50	20	0.5	0.886	0.927	4.61	
3&4-Methylphenol	1	0		6.08	47.63	50	20		1.290	1.228	4.75	
Naphthalene-d8	1	0	I	6.75	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.20	25.64	25	**		0.172	0.176	2.55	
Nitrobenzene	1	0		6.21	49.86	50	20	0.2	0.345	0.344	0.27	
Isophorone	1	0		6.40	49.85	50	20	0.4	0.625	0.623	0.30	
2-Nitrophenol	1	0		6.46	51.04	50	20	0.1	0.190	0.194	2.08	
2,4-Dimethylphenol	1	0		6.49	48.25	50	20	0.2	0.348	0.342	3.50	
Benzoic Acid	1	0		6.58	47.85	50	**		0.347	0.385	4.29	
bis(2-Chloroethoxy)methane	1	0		6.56	49.89	50	20	0.3	0.402	0.401	0.22	
2,4-Dichlorophenol	1	0		6.65	46.17	50	20	0.2	0.298	0.300	7.66	
1,2,4-Trichlorobenzene	1	0		6.71	49.08	50	**		0.340	0.334	1.84	
Naphthalene	1	0		6.77	49.52	50	20	0.7	1.137	1.089	0.95	
4-Chloroaniline	1	0		6.81	54.21	50	20	0.01	0.352	0.439	8.42	
Hexachlorobutadiene	1	0		6.87	50.32	50	20	0.01	0.194	0.195	0.64	
Caprolactam	1	0		7.08	48.30	50	20	0.01	0.109	0.111	3.39	
4-Chloro-3-methylphenol	1	0		7.17	46.80	50	20	0.2	0.304	0.285	6.40	
2-Methylnaphthalene	1	0		7.30	51.33	50	**	0.4	0.758	0.778	2.65	
1-Methylnaphthalene	1	0		7.38	51.20	50	**	0.4	0.732	0.750	2.40	
Methylnaphthalenes	1	0		7.38	101.78	100	**			0.757	1.78	
1,1'-Biphenyl	1	0		7.67	50.19	50	20	0.01	0.993	0.997	0.38	
Acenaphthene-d10	1	0	I	8.17	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.43	47.21	50	20	0.01	0.549	0.518	5.59	
Hexachlorocyclopentadiene	1	0		7.43	29.90	50	20	0.05	0.291	0.192	40.20	C1
2,4,6-Trichlorophenol	1	0		7.52	48.21	50	20	0.2	0.359	0.347	3.57	
2,4,5-Trichlorophenol	1	0		7.56	47.46	50	20	0.2	0.378	0.358	5.09	
2-Fluorobiphenyl	1	0	S	7.59	24.74	25	**		1.364	1.349	1.05	
2-Chloronaphthalene	1	0		7.70	49.16	50	20	0.8	1.134	1.115	1.68	
1,4-Dimethylnaphthalene	1	0		7.97	51.51	50	**		0.969	0.999	3.02	
Dimethylnaphthalenes	1	0		7.97	51.51	50	20			0.999	3.02	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M65316.D **Instrument:** GCMS 10

Cont Calibration Date/Time 10/4/2017 8:55:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.75	47.69	50	**		0.803	0.766	4.62	
2-Nitroaniline	1	0		7.77	50.87	50	20	0.01	0.347	0.353	1.74	
Coumarin	1	0		7.95	50.18		**		0.513			
Acenaphthylene	1	0		8.05	50.72	50	20	0.9	1.753	1.778	1.45	
Dimethylphthalate	1	0		7.92	50.62	50	20	0.01	1.300	1.316	1.25	
2,6-Dinitrotoluene	1	0		7.97	52.72	50	20	0.2	0.283	0.298	5.44	
Acenaphthene	1	0		8.20	50.29	50	20	0.9	1.141	1.148	0.59	
3-Nitroaniline	1	0		8.12	58.14	50	20	0.01	0.286	0.332	16.29	
2,4-Dinitrophenol	1	0		8.21	36.41	50	20	0.01	0.135	0.109	27.17	C1
Dibenzofuran	1	0		8.35	50.98	50	20	0.8	1.716	1.674	1.96	
2,4-Dinitrotoluene	1	0		8.32	52.11	50	20	0.2	0.392	0.409	4.23	
4-Nitrophenol	1	0		8.25	26.65	50	20	0.01	0.215	0.127	46.70	C1
2,3,4,6-Tetrachlorophenol	1	0		8.46	48.41	50	20	0.01	0.337	0.327	3.18	
Fluorene	1	0		8.67	50.60	50	20	0.9	1.322	1.338	1.20	
4-Chlorophenyl-phenylether	1	0		8.66	49.42	50	20	0.4	0.647	0.640	1.15	
Diethylphthalate	1	0		8.54	50.70	50	20	0.01	1.280	1.298	1.40	
4-Nitroaniline	1	0		8.67	51.25	50	20	0.01	0.362	0.371	2.50	
Atrazine	1	0		9.29	50.14	50	20	0.01	0.260	0.261	0.27	
Phenanthrene-d10	1	0	I	9.61	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.71	45.65	50	20	0.01	0.125	0.120	8.71	
n-Nitrosodiphenylamine	1	0		8.77	51.37	50	20	0.01	0.653	0.671	2.74	
2,4,6-Tribromophenol	1	0	S	8.90	48.48	50	**		0.112	0.110	3.05	
1,2-Diphenylhydrazine	1	0		8.81	51.20	50	**		0.680	0.697	2.40	
4-Bromophenyl-phenylether	1	0		9.14	50.04	50	20	0.1	0.226	0.226	0.07	
Hexachlorobenzene	1	0		9.22	48.73	50	20	0.1	0.246	0.240	2.54	
N-Octadecane	1	0		9.48	54.70	50	**	0.05	0.415	0.454	9.40	
Pentachlorophenol	1	0		9.41	44.98	50	20	0.05	0.128	0.121	10.04	
Phenanthrene	1	0		9.64	49.86	50	20	0.7	1.150	1.147	0.27	
Anthracene	1	0		9.69	51.05	50	20	0.7	1.151	1.175	2.11	
Carbazole	1	0		9.86	51.14	50	20	0.01	1.077	1.101	2.28	
Di-n-butylphthalate	1	0		10.24	51.45	50	20	0.01	1.160	1.287	2.91	
Fluoranthene	1	0		10.95	52.10	50	20	0.6	1.237	1.288	4.20	
Chrysene-d12	1	0	I	12.64	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.22	50.58	50	20	0.6	1.146	1.159	1.16	
Benzidine	1	0		11.11	45.57	50	**		0.453	0.530	8.87	
Terphenyl-d14	1	0	S	11.40	24.42	25	**		0.616	0.601	2.32	
4,4'-DDE	1	0		11.34	49.67		**		0.255			
4,4'-DDD	1	0		11.73	51.56		**		0.467			
Butylbenzylphthalate	1	0		11.99	51.12	50	20	0.01	0.466	0.519	2.24	
4,4'-DDT	1	0		12.09	49.91		**		0.399			
3,3'-Dichlorobenzidine	1	0		12.60	63.46	50	20	0.01	0.311	0.420	26.92	C1
Benzo[a]anthracene	1	0		12.63	49.59	50	20	0.8	1.093	1.084	0.83	
Chrysene	1	0		12.67	49.70	50	20	0.7	1.066	1.059	0.60	
bis(2-Ethylhexyl)phthalate	1	0		12.68	56.02	50	20	0.01	0.636	0.713	12.03	
Perylene-d12	1	0	I	14.24	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.42	51.37	50	20	0.01	1.150	1.324	2.75	
Benzo[b]fluoranthene	1	0		13.84	51.15	50	20	0.7	1.155	1.181	2.31	
Benzo[k]fluoranthene	1	0		13.87	50.11	50	20	0.7	1.139	1.142	0.21	
Benzo[a]pyrene	1	0		14.18	51.23	50	20	0.7	1.117	1.145	2.46	
Indeno[1,2,3-cd]pyrene	1	0		15.50	51.38	50	20	0.5	1.272	1.307	2.76	
Dibenzo[a,h]anthracene	1	0		15.52	51.43	50	20	0.4	1.081	1.112	2.86	
Benzo[g,h,i]perylene	1	0		15.85	50.22	50	20	0.5	1.089	1.093	0.44	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M65316.D **Instrument:** GCMS 10

Cont Calibration Date/Time 10/4/2017 8:55:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.744	0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.969	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M87008.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/4/2017 8:55:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.65	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.69	42.84	50	**		1.079	0.923	14.33	
Pyridine	1	0		3.17	52.81	50	**		3.202	3.282	5.62	
N-Nitrosodimethylamine	1	0		3.09	47.68	50	**		1.810	1.781	4.64	
2-Fluorophenol	1	0	S	4.69	54.26	50	**		2.632	2.856	8.51	
Benzaldehyde	1	0		5.50	30.98	50	20	0.01	0.538	0.333	38.04	C1
Aniline	1	0		5.60	50.57	50	**		4.121	4.601	1.14	
Pentachloroethane	1	0		5.64	56.18	50	**	0.05	0.928	1.043	12.36	
bis(2-Chloroethyl)ether	1	0		5.65	51.39	50	20	0.7	2.942	2.928	2.79	
Phenol-d5	1	0	S	5.57	53.43	50	**		3.629	3.879	6.86	
Phenol	1	0		5.59	50.96	50	20	0.8	4.151	4.231	1.92	
2-Chlorophenol	1	0		5.70	57.42	50	20	0.8	2.808	3.224	14.83	
N-Decane	1	0		5.74	51.95	50	**	0.05	2.652	2.755	3.90	
1,3-Dichlorobenzene	1	0		5.83	56.48	50	**		3.004	3.394	12.97	
1,4-Dichlorobenzene-d4	1	0	I	5.88	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.89	52.96	50	20		1.623	1.719	5.91	
1,2-Dichlorobenzene	1	0		6.02	52.87	50	**		1.553	1.642	5.75	
Benzyl alcohol	1	0		5.99	49.06	50	**		1.012	0.992	1.89	
bis(2-chloroisopropyl)ether	1	0		6.10	44.85	50	20	0.01	1.855	1.664	10.30	
2-Methylphenol	1	0		6.09	51.14	50	20	0.7	1.402	1.489	2.27	
Acetophenone	1	0		6.21	44.10	50	20	0.01	2.087	1.841	11.80	
Hexachloroethane	1	0		6.29	50.75	50	20	0.3	0.592	0.600	1.50	
N-Nitroso-di-n-propylamine	1	0		6.20	49.19	50	20	0.5	1.112	1.094	1.63	
3&4-Methylphenol	1	0		6.21	50.44	50	20		1.398	1.512	0.89	
Naphthalene-d8	1	0	I	6.89	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.33	28.11	25	**		0.173	0.194	12.44	
Nitrobenzene	1	0		6.34	49.19	50	20	0.2	0.410	0.404	1.62	
Isophorone	1	0		6.53	48.74	50	20	0.4	0.764	0.745	2.53	
2-Nitrophenol	1	0		6.60	55.59	50	20	0.1	0.194	0.227	11.18	
2,4-Dimethylphenol	1	0		6.62	52.54	50	20	0.2	0.364	0.408	5.08	
Benzoic Acid	1	0		6.71	26.15	50	**		0.318	0.097	47.70	
bis(2-Chloroethoxy)methane	1	0		6.69	49.66	50	20	0.3	0.457	0.454	0.68	
2,4-Dichlorophenol	1	0		6.79	56.03	50	20	0.2	0.281	0.353	12.07	
1,2,4-Trichlorobenzene	1	0		6.85	55.41	50	**		0.335	0.371	10.83	
Naphthalene	1	0		6.91	56.11	50	20	0.7	1.157	1.216	12.22	
4-Chloroaniline	1	0		6.94	61.52	50	20	0.01	0.380	0.468	23.04	C1
Hexachlorobutadiene	1	0		7.00	59.71	50	20	0.01	0.182	0.217	19.42	
Caprolactam	1	0		7.21	46.48	50	20	0.01	0.132	0.121	7.04	
4-Chloro-3-methylphenol	1	0		7.32	50.60	50	20	0.2	0.349	0.362	1.20	
2-Methylnaphthalene	1	0		7.44	53.54	50	**	0.4	0.789	0.845	7.07	
1-Methylnaphthalene	1	0		7.52	52.88	50	**	0.4	0.757	0.801	5.76	
Methylnaphthalenes	1	0		7.44	106.45	100	**			0.823	6.45	
1,1'-Biphenyl	1	0		7.82	53.29	50	20	0.01	1.025	1.093	6.58	
Acenaphthene-d10	1	0	I	8.33	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.58	50.66	50	20	0.01	0.522	0.529	1.31	
Hexachlorocyclopentadiene	1	0		7.57	13.59	50	20	0.05	0.268	0.084	72.81	C1
2,4,6-Trichlorophenol	1	0		7.67	54.42	50	20	0.2	0.346	0.415	8.85	
2,4,5-Trichlorophenol	1	0		7.71	56.35	50	20	0.2	0.371	0.422	12.69	
2-Fluorobiphenyl	1	0	S	7.73	27.70	25	**		1.326	1.470	10.81	
2-Chloronaphthalene	1	0		7.85	54.50	50	20	0.8	1.096	1.197	9.01	
1,4-Dimethylnaphthalene	1	0		8.13	55.07	50	**		0.963	1.060	10.14	
Dimethylnaphthalenes	1	0		8.13	55.07	50	20			1.060	10.14	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M87008.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/4/2017 8:55:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.90	49.54	50	**		0.771	0.764	0.92	
2-Nitroaniline	1	0		7.92	50.05	50	20	0.01	0.402	0.402	0.11	
Coumarin	1	0		8.11	51.11		**		0.533			
Acenaphthylene	1	0		8.20	54.44	50	20	0.9	1.732	1.885	8.88	
Dimethylphthalate	1	0		8.06	53.05	50	20	0.01	1.347	1.429	6.10	
2,6-Dinitrotoluene	1	0		8.12	57.13	50	20	0.2	0.294	0.336	14.26	
Acenaphthene	1	0		8.36	53.94	50	20	0.9	1.136	1.226	7.87	
3-Nitroaniline	1	0		8.27	52.56	50	20	0.01	0.312	0.362	5.12	
2,4-Dinitrophenol	1	0		8.37	43.03	50	20	0.01	0.130	0.112	13.95	
Dibenzofuran	1	0		8.51	53.41	50	20	0.8	1.730	1.781	6.83	
2,4-Dinitrotoluene	1	0		8.49	52.26	50	20	0.2	0.415	0.462	4.52	
4-Nitrophenol	1	0		8.42	39.89	50	20	0.01	0.240	0.212	20.22	
2,3,4,6-Tetrachlorophenol	1	0		8.63	49.06	50	20	0.01	0.332	0.357	1.87	
Fluorene	1	0		8.83	54.10	50	20	0.9	1.337	1.446	8.20	
4-Chlorophenyl-phenylether	1	0		8.82	54.42	50	20	0.4	0.669	0.728	8.85	
Diethylphthalate	1	0		8.69	52.46	50	20	0.01	1.338	1.404	4.93	
4-Nitroaniline	1	0		8.84	50.55	50	20	0.01	0.377	0.404	1.10	
Atrazine	1	0		9.46	47.17	50	20	0.01	0.276	0.274	5.67	
Phenanthrene-d10	1	0	I	9.79	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.88	47.29	50	20	0.01	0.114	0.118	5.41	
n-Nitrosodiphenylamine	1	0		8.93	56.46	50	20	0.01	0.617	0.697	12.93	
2,4,6-Tribromophenol	1	0	S	9.07	62.85	50	**		0.099	0.133	25.70	
1,2-Diphenylhydrazine	1	0		8.98	54.08	50	**		0.740	0.801	8.16	
4-Bromophenyl-phenylether	1	0		9.31	58.19	50	20	0.1	0.217	0.253	16.39	
Hexachlorobenzene	1	0		9.39	59.06	50	20	0.1	0.239	0.282	18.13	
N-Octadecane	1	0		9.64	56.04	50	**	0.05	0.406	0.455	12.07	
Pentachlorophenol	1	0		9.59	34.10	50	20	0.05	0.116	0.081	31.81	C1
Phenanthrene	1	0		9.82	53.85	50	20	0.7	1.115	1.201	7.70	
Anthracene	1	0		9.87	55.84	50	20	0.7	1.107	1.236	11.68	
Carbazole	1	0		10.04	53.25	50	20	0.01	1.074	1.144	6.50	
Di-n-butylphthalate	1	0		10.40	53.07	50	20	0.01	1.144	1.365	6.15	
Fluoranthene	1	0		11.15	54.21	50	20	0.6	1.258	1.364	8.42	
Chrysene-d12	1	0	I	12.85	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.41	54.81	50	20	0.6	1.085	1.189	9.62	
Benzidine	1	0		11.29	51.26	50	**		0.454	0.602	2.53	
Terphenyl-d14	1	0	S	11.58	27.90	25	**		0.594	0.663	11.58	
4,4'-DDE	1	0		11.52	56.05		**		0.242			
4,4'-DDD	1	0		11.92	57.74		**		0.463			
Butylbenzylphthalate	1	0		12.17	50.91	50	20	0.01	0.473	0.530	1.83	
4,4'-DDT	1	0		12.28	54.49		**		0.377			
3,3'-Dichlorobenzidine	1	0		12.80	63.67	50	20	0.01	0.336	0.490	27.34	C1
Benzo[a]anthracene	1	0		12.83	52.36	50	20	0.8	1.120	1.172	4.72	
Chrysene	1	0		12.87	50.86	50	20	0.7	1.048	1.066	1.72	
bis(2-Ethylhexyl)phthalate	1	0		12.86	52.79	50	20	0.01	0.627	0.738	5.58	
Perylene-d12	1	0	I	14.47	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.61	50.74	50	20	0.01	1.192	1.394	1.48	
Benzo[b]fluoranthene	1	0		14.05	53.30	50	20	0.7	1.213	1.293	6.60	
Benzo[k]fluoranthene	1	0		14.08	51.66	50	20	0.7	1.166	1.205	3.31	
Benzo[a]pyrene	1	0		14.42	54.05	50	20	0.7	1.123	1.214	8.11	
Indeno[1,2,3-cd]pyrene	1	0		15.83	58.31	50	20	0.5	1.151	1.342	16.61	
Dibenzo[a,h]anthracene	1	0		15.84	58.61	50	20	0.4	0.972	1.139	17.23	
Benzo[g,h,i]perylene	1	0		16.21	59.14	50	20	0.5	0.950	1.123	18.29	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M87008.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/4/2017 8:55:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.773	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.963	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M87025.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/4/2017 4:13:00 P Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.66	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.70	42.09	50	**		1.079	0.907	15.81	
Pyridine	1	0		3.18	52.36	50	**		3.202	3.254	4.73	
N-Nitrosodimethylamine	1	0		3.10	50.23	50	**		1.810	1.878	0.47	
2-Fluorophenol	1	0	S	4.69	57.07	50	**		2.632	3.004	14.15	
Benzaldehyde	1	0		5.51	33.93	50	20	0.01	0.538	0.365	32.14	C1
Aniline	1	0		5.60	52.97	50	**		4.121	4.823	5.95	
Pentachloroethane	1	0		5.64	58.51	50	**	0.05	0.928	1.086	17.02	
bis(2-Chloroethyl)ether	1	0		5.65	54.40	50	20	0.7	2.942	3.098	8.80	
Phenol-d5	1	0	S	5.57	56.19	50	**		3.629	4.079	12.39	
Phenol	1	0		5.59	53.92	50	20	0.8	4.151	4.477	7.85	
2-Chlorophenol	1	0		5.70	60.81	50	20	0.8	2.808	3.415	21.62	C1
N-Decane	1	0		5.75	54.39	50	**	0.05	2.652	2.884	8.78	
1,3-Dichlorobenzene	1	0		5.83	60.04	50	**		3.004	3.607	20.08	
1,4-Dichlorobenzene-d4	1	0	I	5.88	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.90	52.97	50	20		1.623	1.719	5.94	
1,2-Dichlorobenzene	1	0		6.02	52.33	50	**		1.553	1.625	4.66	
Benzyl alcohol	1	0		5.99	48.45	50	**		1.012	0.980	3.10	
bis(2-chloroisopropyl)ether	1	0		6.10	44.47	50	20	0.01	1.855	1.650	11.06	
2-Methylphenol	1	0		6.09	51.69	50	20	0.7	1.402	1.505	3.39	
Acetophenone	1	0		6.21	44.20	50	20	0.01	2.087	1.845	11.59	
Hexachloroethane	1	0		6.29	50.66	50	20	0.3	0.592	0.599	1.32	
N-Nitroso-di-n-propylamine	1	0		6.21	49.98	50	20	0.5	1.112	1.112	0.04	
3&4-Methylphenol	1	0		6.21	52.33	50	20		1.398	1.566	4.66	
Naphthalene-d8	1	0	I	6.89	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.33	28.03	25	**		0.173	0.193	12.13	
Nitrobenzene	1	0		6.34	48.22	50	20	0.2	0.410	0.396	3.55	
Isophorone	1	0		6.53	48.88	50	20	0.4	0.764	0.747	2.24	
2-Nitrophenol	1	0		6.59	54.41	50	20	0.1	0.194	0.223	8.82	
2,4-Dimethylphenol	1	0		6.62	52.08	50	20	0.2	0.364	0.404	4.17	
Benzoic Acid	1	0		6.71	18.85	50	**		0.318	0.036	62.30	
bis(2-Chloroethoxy)methane	1	0		6.69	49.48	50	20	0.3	0.457	0.453	1.05	
2,4-Dichlorophenol	1	0		6.78	55.90	50	20	0.2	0.281	0.352	11.80	
1,2,4-Trichlorobenzene	1	0		6.85	55.66	50	**		0.335	0.373	11.32	
Naphthalene	1	0		6.91	53.79	50	20	0.7	1.157	1.167	7.58	
4-Chloroaniline	1	0		6.94	61.79	50	20	0.01	0.380	0.470	23.59	C1
Hexachlorobutadiene	1	0		7.00	58.72	50	20	0.01	0.182	0.213	17.44	
Caprolactam	1	0		7.21	48.28	50	20	0.01	0.132	0.126	3.44	
4-Chloro-3-methylphenol	1	0		7.31	51.18	50	20	0.2	0.349	0.366	2.37	
2-Methylnaphthalene	1	0		7.44	53.83	50	**	0.4	0.789	0.849	7.65	
1-Methylnaphthalene	1	0		7.52	53.13	50	**	0.4	0.757	0.805	6.26	
Methylnaphthalenes	1	0		7.44	106.90	100	**			0.826	6.90	
1,1'-Biphenyl	1	0		7.81	54.26	50	20	0.01	1.025	1.112	8.53	
Acenaphthene-d10	1	0	I	8.32	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.58	50.66	50	20	0.01	0.522	0.529	1.33	
Hexachlorocyclopentadiene	1	0		7.57	12.62	50	20	0.05	0.268	0.078	74.75	C1
2,4,6-Trichlorophenol	1	0		7.67	53.06	50	20	0.2	0.346	0.405	6.13	
2,4,5-Trichlorophenol	1	0		7.71	57.05	50	20	0.2	0.371	0.427	14.09	
2-Fluorobiphenyl	1	0	S	7.73	27.28	25	**		1.326	1.447	9.11	
2-Chloronaphthalene	1	0		7.84	54.15	50	20	0.8	1.096	1.189	8.31	
1,4-Dimethylnaphthalene	1	0		8.12	55.26	50	**		0.963	1.064	10.52	
Dimethylnaphthalenes	1	0		8.12	55.26	50	20			1.064	10.52	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M87025.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/4/2017 4:13:00 P Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.90	49.40	50	**		0.771	0.762	1.20	
2-Nitroaniline	1	0		7.91	50.78	50	20	0.01	0.402	0.408	1.56	
Coumarin	1	0		8.10	52.94		**		0.533			
Acenaphthylene	1	0		8.20	54.49	50	20	0.9	1.732	1.887	8.97	
Dimethylphthalate	1	0		8.06	54.10	50	20	0.01	1.347	1.457	8.19	
2,6-Dinitrotoluene	1	0		8.12	57.41	50	20	0.2	0.294	0.337	14.82	
Acenaphthene	1	0		8.35	54.20	50	20	0.9	1.136	1.232	8.41	
3-Nitroaniline	1	0		8.27	54.27	50	20	0.01	0.312	0.373	8.55	
2,4-Dinitrophenol	1	0		8.37	41.12	50	20	0.01	0.130	0.105	17.75	
Dibenzofuran	1	0		8.51	54.03	50	20	0.8	1.730	1.801	8.06	
2,4-Dinitrotoluene	1	0		8.48	52.68	50	20	0.2	0.415	0.466	5.37	
4-Nitrophenol	1	0		8.41	38.97	50	20	0.01	0.240	0.207	22.06	C1
2,3,4,6-Tetrachlorophenol	1	0		8.62	50.21	50	20	0.01	0.332	0.366	0.41	
Fluorene	1	0		8.83	55.25	50	20	0.9	1.337	1.477	10.51	
4-Chlorophenyl-phenylether	1	0		8.82	55.06	50	20	0.4	0.669	0.736	10.12	
Diethylphthalate	1	0		8.69	54.03	50	20	0.01	1.338	1.446	8.07	
4-Nitroaniline	1	0		8.83	51.10	50	20	0.01	0.377	0.408	2.20	
Atrazine	1	0		9.45	47.86	50	20	0.01	0.276	0.278	4.29	
Phenanthrene-d10	1	0	I	9.78	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.87	45.29	50	20	0.01	0.114	0.113	9.41	
n-Nitrosodiphenylamine	1	0		8.93	55.90	50	20	0.01	0.617	0.690	11.79	
2,4,6-Tribromophenol	1	0	S	9.07	63.49	50	**		0.099	0.134	26.97	
1,2-Diphenylhydrazine	1	0		8.97	48.36	50	**		0.740	0.716	3.29	
4-Bromophenyl-phenylether	1	0		9.30	58.83	50	20	0.1	0.217	0.256	17.66	
Hexachlorobenzene	1	0		9.38	59.28	50	20	0.1	0.239	0.283	18.55	
N-Octadecane	1	0		9.63	54.29	50	**	0.05	0.406	0.440	8.57	
Pentachlorophenol	1	0		9.59	29.83	50	20	0.05	0.116	0.071	40.33	C1
Phenanthrene	1	0		9.81	53.43	50	20	0.7	1.115	1.192	6.85	
Anthracene	1	0		9.86	55.34	50	20	0.7	1.107	1.225	10.68	
Carbazole	1	0		10.04	53.58	50	20	0.01	1.074	1.151	7.17	
Di-n-butylphthalate	1	0		10.40	53.60	50	20	0.01	1.144	1.378	7.19	
Fluoranthene	1	0		11.15	54.08	50	20	0.6	1.258	1.361	8.17	
Chrysene-d12	1	0	I	12.85	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.41	55.89	50	20	0.6	1.085	1.213	11.79	
Benzidine	1	0		11.29	52.95	50	**		0.454	0.620	5.90	
Terphenyl-d14	1	0	S	11.58	28.84	25	**		0.594	0.685	15.36	
4,4'-DDE	1	0		11.52	58.02		**		0.242			
4,4'-DDD	1	0		11.92	59.11		**		0.463			
Butylbenzylphthalate	1	0		12.17	53.23	50	20	0.01	0.473	0.554	6.46	
4,4'-DDT	1	0		12.27	57.41		**		0.377			
3,3'-Dichlorobenzidine	1	0		12.80	64.99	50	20	0.01	0.336	0.499	29.99	C1
Benzo[a]anthracene	1	0		12.83	53.17	50	20	0.8	1.120	1.191	6.35	
Chrysene	1	0		12.87	51.43	50	20	0.7	1.048	1.078	2.86	
bis(2-Ethylhexyl)phthalate	1	0		12.86	53.71	50	20	0.01	0.627	0.751	7.42	
Perylene-d12	1	0	I	14.47	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.60	51.61	50	20	0.01	1.192	1.417	3.23	
Benzo[b]fluoranthene	1	0		14.05	56.33	50	20	0.7	1.213	1.366	12.66	
Benzo[k]fluoranthene	1	0		14.08	48.73	50	20	0.7	1.166	1.136	2.54	
Benzo[a]pyrene	1	0		14.41	53.51	50	20	0.7	1.123	1.202	7.03	
Indeno[1,2,3-cd]pyrene	1	0		15.82	57.43	50	20	0.5	1.151	1.322	14.86	
Dibenzo[a,h]anthracene	1	0		15.84	57.18	50	20	0.4	0.972	1.112	14.37	
Benzo[g,h,i]perylene	1	0		16.21	57.20	50	20	0.5	0.950	1.086	14.41	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M87025.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/4/2017 4:13:00 P Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.963	0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.773	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

7092827 0127

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M64985.D Method: EPA 8270D

Analysis Date/Time: 09/11/17 12:53

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	35265	2.50	75383	5.75	289381	6.76	181964	8.17	315451	9.62	354383	12.64	329776	14.24
Eval File Area Limit:	17632-70530		37692-150766		144690-578762		90982-363928		157726-630902		177192-708766		164888-659552	
Eval File Rt Limit:	2-3		5.25-6.25		6.26-7.26		7.67-8.67		9.12-10.12		12.14-13.14		13.74-14.74	

Data File	Sample														
10M64975.D	CAL BNA@10PPM	32208	2.50	68334	5.75	268864	6.76	171388	8.17	292677	9.61	338284	12.64	311911	14.24
10M64976.D	CAL BNA@196PPM	32571	2.50	72234	5.75	280842	6.77	177681	8.18	300829	9.62	337898	12.65	308802	14.25
10M64977.D	CAL BNA@160PPM	27541	2.50	60515	5.75	238187	6.76	154215	8.17	276473	9.62	320557	12.65	299384	14.25
10M64978.D	CAL BNA@120PPM	34615	2.50	74837	5.75	292395	6.76	186508	8.18	323232	9.62	362088	12.65	337174	14.25
10M64979.D	CAL BNA@80PPM	31993	2.50	71282	5.75	276755	6.76	178149	8.17	315241	9.62	345890	12.65	321889	14.24
10M64981.D	CAL BNA@20PPM	33868	2.50	71905	5.75	283028	6.76	178213	8.17	315136	9.62	366732	12.64	342612	14.24
10M64982.D	CAL BNA@2PPM	33915	2.50	71735	5.75	281829	6.76	176962	8.17	318752	9.61	366364	12.64	341565	14.24
10M64983.D	CAL BNA@.5PPM	36310	2.50	76457	5.75	299549	6.76	188660	8.17	329396	9.61	392746	12.64	367922	14.24
10M64984.D	CAL BNA@.25PPM	31693	2.50	66518	5.75	259327	6.76	161586	8.17	288281	9.61	323988	12.64	302006	14.24
10M64985.D	CAL BNA@50PPM	35265	2.50	75383	5.75	289381	6.76	181964	8.17	315451	9.62	354383	12.64	329776	14.24
10M64986.D	ICV BNA@50PPM	35339	2.50	74232	5.75	285410	6.76	181175	8.17	317546	9.62	350852	12.64	322097	14.24
10M64987.D	EXT MIX#1	34412	2.50	72975	5.75	284416	6.76	179882	8.17	318593	9.62	361962	12.64	339291	14.24
10M64988.D	EXT MIX#1(2ND)	35118	2.50	72552	5.75	292736	6.76	186676	8.17	327627	9.61	376144	12.64	348626	14.24

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12	**625/8270 Internal Standard concentration = 40 mg/L (in final extract)**
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10			**624/8260 Internal Standard concentration = 30ug/L**
I3 =	Naphthalene-d8	I6 =	Chrysene-d12			**524 Internal Standard concentration =5ug/L**

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

7092827 0128

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M86409.D Method: EPA 8270D

Analysis Date/Time: 09/11/17 13:22

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	44513	2.67	81341	5.88	333846	6.90	216185	8.34	407318	9.79	481166	12.85	436287	14.49
Eval File Area Limit:	22256-89026		40670-162682		166923-667692		108092-432370		203659-814636		240583-962332		218144-872574	
Eval File Rt Limit:	2.17-3.17		5.38-6.38		6.4-7.4		7.84-8.84		9.29-10.29		12.35-13.35		13.99-14.99	

Data File	Sample														
7M86403.D	CAL BNA@10PPM	36744	2.67	69500	5.88	291390	6.90	197241	8.34	382882	9.80	502748	12.84	473995	14.47
7M86404.D	CAL BNA@196PPM	36644	2.67	71365	5.88	312983	6.90	220438	8.34	422789	9.80	490801	12.85	460132	14.48
7M86405.D	CAL BNA@160PPM	37494	2.67	73689	5.88	311629	6.90	213898	8.34	408480	9.80	472636	12.85	433207	14.47
7M86406.D	CAL BNA@120PPM	39940	2.67	78143	5.88	329897	6.90	226107	8.34	434083	9.80	514554	12.85	478323	14.47
7M86407.D	CAL BNA@80PPM	41904	2.67	77920	5.88	323618	6.90	213313	8.34	408041	9.79	486212	12.85	451475	14.47
7M86409.D	CAL BNA@50PPM	44513	2.67	81341	5.88	333846	6.90	216185	8.34	407318	9.79	481166	12.85	436287	14.49
7M86410.D	CAL BNA@20PPM	39352	2.67	75725	5.88	321177	6.90	210445	8.34	396180	9.80	491773	12.84	452925	14.47
7M86411.D	CAL BNA@2PPM	36733	2.67	66985	5.88	272600	6.89	183277	8.33	355503	9.79	469676	12.84	434780	14.47
7M86412.D	CAL BNA@.25PPM	42687	2.67	69978	5.88	275839	6.90	179986	8.33	343013	9.80	418646	12.85	385512	14.51
7M86413.D	CAL BNA@.5PPM	46233	2.67	84320	5.88	338640	6.89	219575	8.33	410815	9.79	494741	12.84	455189	14.48
7M86414.D	ICV BNA@50PPM	45954	2.67	71832	5.88	282544	6.90	180658	8.34	340042	9.80	447040	12.85	432302	14.47

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12	**625/8270 Internal Standard concentration = 40 mg/L (in final extract)**
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10			**624/8260 Internal Standard concentration = 30ug/L**
I3 =	Naphthalene-d8	I6 =	Chrysene-d12			**524 Internal Standard concentration =5ug/L**

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

7092827 0129

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M86986.D Method: EPA 8270D

Analysis Date/Time: 10/03/17 15:31

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	25616	2.66	52859	5.88	213322	6.89	141694	8.32	263152	9.78	303745	12.84	269184	14.47
Eval File Area Limit:	12808-51232		26430-105718		106661-426644		70847-283388		131576-526304		151872-607490		134592-538368	
Eval File Rt Limit:	2.16-3.16		5.38-6.38		6.39-7.39		7.82-8.82		9.28-10.28		12.34-13.34		13.97-14.97	

Data File	Sample														
7M86987.D	AD00319-002(3X)	25980	2.66	56242	5.88	222103	6.89	144451	8.32	255419	9.78	264475	12.84	237699	14.47
7M86988.D	SMB63050(MS)	26095	2.66	55585	5.88	211307	6.89	133545	8.32	237116	9.78	248184	12.84	222447	14.47
7M86989.D	SMB63051(MS)	26393	2.66	57227	5.88	216383	6.89	136845	8.32	238333	9.78	243618	12.84	219889	14.47
7M86990.D	SMB63050	28185	2.66	58611	5.88	225972	6.89	142420	8.32	249508	9.78	256794	12.83	225468	14.47
7M86991.D	SMB63051	23886	2.66	50240	5.88	196061	6.89	123943	8.32	220347	9.78	228791	12.83	202169	14.47
7M86992.D	AD00275-021(R)	27209	2.66	57679	5.88	222254	6.88	138810	8.32	239313	9.78	241301	12.84	215365	14.47
7M86993.D	AD00298-002(5X)	26586	2.66	57292	5.88	220122	6.88	144445	8.32	257515	9.78	258554	12.84	240885	14.47
7M86994.D	AD00316-026(3X)	27834	2.66	58712	5.88	227238	6.89	145992	8.32	255399	9.78	249236	12.84	231785	14.47
7M86995.D	AD00275-006(3X)	26685	2.66	57210	5.88	221159	6.89	144119	8.32	254470	9.78	253675	12.84	240553	14.47
7M86996.D	AD00275-015(3X)	27687	2.66	58049	5.88	220919	6.89	143363	8.32	253640	9.78	250733	12.84	232680	14.47
7M86997.D	AD00275-025(3X)	28925	2.66	62322	5.88	243974	6.89	157587	8.32	274740	9.78	263825	12.84	251209	14.47
7M86998.D	AD00275-016	28561	2.66	58915	5.88	227259	6.89	144108	8.32	252040	9.78	249137	12.84	236400	14.47
7M86999.D	AD00275-017	30291	2.66	64057	5.88	244280	6.89	156993	8.32	267612	9.78	269718	12.84	269742	14.47
7M87000.D	AD00275-018	25506	2.66	53874	5.88	206795	6.89	133818	8.32	230988	9.78	230293	12.84	220353	14.47
7M87001.D	AD00275-019	28018	2.66	58801	5.88	227087	6.89	143386	8.32	249891	9.78	254887	12.83	238439	14.47
7M87002.D	AD00275-020	28136	2.66	60034	5.88	230257	6.89	147901	8.32	253890	9.78	258405	12.84	249075	14.47
7M87003.D	AD00275-022	27538	2.66	58600	5.88	223963	6.89	141496	8.32	243770	9.78	245591	12.84	239973	14.47
7M87004.D	AD00275-023	27602	2.66	59273	5.88	227261	6.89	145570	8.32	254580	9.78	253437	12.84	239437	14.47
7M87005.D	AD00275-024	28048	2.66	59577	5.88	229935	6.89	146789	8.32	253619	9.78	253325	12.84	240039	14.47
7M87006.D	AD00275-026	24662	2.66	51266	5.88	200985	6.89	130876	8.32	228661	9.78	228377	12.84	218659	14.47

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10			624/8260 Internal Standard concentration = 30ug/L
I3 =	Naphthalene-d8	I6 =	Chrysene-d12			524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

7092827 0130

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M65316.D Method: EPA 8270D

Analysis Date/Time: 10/04/17 08:55

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	24874	2.49	53031	5.75	204317	6.75	129314	8.17	222634	9.61	257094	12.64	241376	14.24
Eval File Area Limit:	12437-49748		26516-106062		102158-408634		64657-258628		111317-445268		128547-514188		120688-482752	
Eval File Rt Limit:	1.99-2.99		5.25-6.25		6.25-7.25		7.67-8.67		9.11-10.11		12.14-13.14		13.74-14.74	

Data File	Sample														
10M65317.D	SMB63050	37140	2.50	77220	5.75	299445	6.75	179670	8.17	301901	9.61	307964	12.64	250691	14.24
10M65318.D	TEST63051	33368	2.50	68964	5.75	263685	6.75	158078	8.17	258943	9.61	256358	12.64	215658	14.24
10M65319.D	AD00192-002	35240	2.50	73551	5.75	272709	6.75	167898	8.17	276762	9.61	262695	12.64	229293	14.24
10M65320.D	AD00192-002(MS)	36464	2.50	79422	5.75	304925	6.75	177766	8.17	282055	9.61	251890	12.64	223051	14.24
10M65321.D	AD00192-002(MSD)	36216	2.50	80060	5.75	301004	6.75	181376	8.17	276660	9.61	258894	12.64	238932	14.24
10M65322.D	AD00192-005	32369	2.50	66560	5.75	245688	6.75	145915	8.17	241863	9.61	261228	12.64	241236	14.24
10M65323.D	AD00290-002	32721	2.50	71662	5.75	265785	6.75	159891	8.17	253788	9.61	257389	12.64	237576	14.24
10M65324.D	AD00290-004	29756	2.50	65621	5.75	240523	6.75	144152	8.17	231718	9.61	227498	12.64	219284	14.24
10M65325.D	AD00290-006	32231	2.50	70808	5.75	262070	6.75	154134	8.17	249427	9.61	230419	12.64	219589	14.24
10M65326.D	AD00290-008	35644	2.50	77427	5.75	287670	6.75	168335	8.17	270181	9.61	251835	12.64	238484	14.24
10M65327.D	AD00290-010	28613	2.50	63844	5.75	248942	6.75	149228	8.17	243796	9.61	234173	12.64	231196	14.24
10M65328.D	AD00290-012	31053	2.50	69072	5.75	261462	6.75	159633	8.17	259442	9.61	244244	12.64	238751	14.24
10M65329.D	AD00290-014	34310	2.50	68423	5.75	256750	6.75	153657	8.17	247024	9.61	233344	12.64	226548	14.24
10M65330.D	SMB63051	31312	2.50	67093	5.75	254024	6.75	147840	8.17	237039	9.61	221177	12.64	211698	14.24
10M65331.D	WMB63064	23985	2.50	51941	5.75	206276	6.75	134951	8.17	242320	9.61	265256	12.64	246404	14.24
10M65332.D	AD00333-001	23250	2.49	46838	5.75	184139	6.75	114597	8.17	200305	9.61	225840	12.64	208934	14.24
10M65333.D	AD00333-003	23481	2.50	47638	5.75	183903	6.75	114390	8.17	199988	9.61	224793	12.64	207159	14.24
10M65334.D	AD00346-025	25196	2.49	52275	5.75	206673	6.75	133104	8.17	232703	9.61	245977	12.64	222374	14.24
10M65335.D	AD00354-001	29183	2.49	61007	5.75	242217	6.75	152697	8.17	263279	9.61	286229	12.64	254528	14.24
10M65336.D	AD00354-002	28365	2.50	58745	5.75	230525	6.75	147009	8.17	254042	9.61	277411	12.64	253069	14.24
10M65337.D	AD00354-003	25082	2.50	52481	5.75	206414	6.75	128103	8.17	225692	9.61	247175	12.64	214220	14.24
10M65338.D	AD00354-004	31084	2.50	64497	5.75	251620	6.75	159974	8.17	272510	9.61	295583	12.64	268902	14.24
10M65339.D	AD00354-005	27629	2.50	57557	5.75	223105	6.75	141046	8.17	253816	9.61	269823	12.64	246067	14.24

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12	**625/8270 Internal Standard concentration = 40 mg/L (in final extract)**
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10			**624/8260 Internal Standard concentration = 30ug/L**
I3 =	Naphthalene-d8	I6 =	Chrysene-d12			**524 Internal Standard concentration =5ug/L**

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 7M87008.D Method: EPA 8270D

Analysis Date/Time: 10/04/17 08:55

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	24726	2.65	49934	5.88	195904	6.89	126546	8.33	229824	9.79	273089	12.85	253383	14.47
Eval File Area Limit:	12363-49452		24967-99868		97952-391808		63273-253092		114912-459648		136544-546178		126692-506766	
Eval File Rt Limit:	2.15-3.15		5.38-6.38		6.39-7.39		7.83-8.83		9.29-10.29		12.35-13.35		13.97-14.97	

Data File	Sample														
7M87009.D	AD00361-027	26082	2.66	58080	5.88	221275	6.89	140802	8.32	240678	9.78	243759	12.84	224396	14.47
7M87010.D	AD00361-029	24364	2.66	54103	5.88	204060	6.89	129893	8.33	225022	9.79	224328	12.84	215785	14.48
7M87011.D	AD00356-001(5X)(MS)	25751	2.66	57213	5.88	225935	6.89	147181	8.33	256564	9.79	248290	12.84	244431	14.48
7M87012.D	AD00350-001	24290	2.66	51327	5.88	200969	6.89	129012	8.33	217336	9.79	203604	12.84	200209	14.49
7M87013.D	AD00275-035	29051	2.66	62072	5.88	230513	6.89	140106	8.33	236427	9.79	218866	12.84	211203	14.48
7M87014.D	AD00286-001(5X)	26839	2.66	59304	5.88	232172	6.89	150330	8.33	240109	9.79	254479	12.85	263043	14.51
7M87015.D	AD00356-001(5X)	26353	2.66	57945	5.88	228932	6.89	148693	8.33	250991	9.79	242614	12.85	245296	14.49
7M87016.D	AD00356-001(5X)(MS	26484	2.66	57217	5.88	231021	6.89	148818	8.33	254579	9.79	242709	12.84	245117	14.49
7M87017.D	AD00361-020(5X)	27993	2.66	61646	5.88	244301	6.89	166534	8.33	288053	9.79	284228	12.84	274387	14.48
7M87018.D	AD00361-021(5X)	28486	2.66	62633	5.88	244666	6.89	158548	8.33	266910	9.78	256272	12.84	250892	14.49
7M87019.D	AD00361-022(5X)	27538	2.66	61349	5.88	238065	6.89	153390	8.32	265841	9.78	259111	12.84	248682	14.49
7M87020.D	AD00361-023(5X)	30870	2.66	62553	5.88	233668	6.89	148855	8.32	252395	9.78	261785	12.84	258230	14.47
7M87021.D	AD00361-024(5X)	26717	2.66	56921	5.88	223009	6.89	142392	8.32	241553	9.78	239736	12.84	229777	14.51
7M87022.D	AD00361-025(5X)	30881	2.66	62967	5.88	239110	6.89	148439	8.33	246554	9.78	242226	12.84	235651	14.48
7M87023.D	AD00298-002(5X)(R)	26606	2.66	61959	5.88	248060	6.89	158164	8.32	262066	9.78	251270	12.84	253946	14.48

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10			624/8260 Internal Standard concentration = 30ug/L
I3 =	Naphthalene-d8	I6 =	Chrysene-d12			524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 7M87025.D Method: EPA 8270D

Analysis Date/Time: 10/04/17 16:13

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	23890	2.66	51374	5.88	204664	6.89	133354	8.32	250122	9.78	288807	12.85	264566	14.47
Eval File Area Limit:	11945-47780		25687-102748		102332-409328		66677-266708		125061-500244		144404-577614		132283-529132	
Eval File Rt Limit:	2.16-3.16		5.38-6.38		6.39-7.39		7.82-8.82		9.28-10.28		12.35-13.35		13.97-14.97	

Data File	Sample														
7M87026.D	SMB63067(MS)	18935	2.65	44297	5.88	182833	6.89	123304	8.33	237641	9.79	282796	12.84	263683	14.47
7M87027.D	SMB63071(MS)	20133	2.65	48104	5.88	187992	6.89	121098	8.32	217378	9.78	242532	12.84	222717	14.47
7M87028.D	SMB63071	18086	2.65	43333	5.88	174844	6.88	116788	8.32	217996	9.78	246076	12.84	225290	14.47
7M87029.D	SMB63067	17090	2.65	40852	5.88	165593	6.88	115584	8.32	218795	9.78	264833	12.84	241614	14.47
7M87030.D	AD00346-004	18669	2.66	42687	5.88	175306	6.89	116895	8.32	218436	9.78	249520	12.84	231087	14.47
7M87031.D	AD00346-004(MS)	17072	2.65	41643	5.88	170994	6.89	116162	8.32	224403	9.78	265331	12.84	240350	14.47
7M87032.D	AD00346-004(MSD)	17747	2.65	43894	5.88	184916	6.89	126128	8.32	244032	9.78	291319	12.84	267836	14.47
7M87033.D	AD00172-001	16965	2.65	39795	5.88	167113	6.89	115368	8.32	222500	9.78	264823	12.84	241282	14.47
7M87034.D	AD00172-001(MS)	17965	2.65	42360	5.88	172509	6.89	115183	8.32	215614	9.78	253888	12.84	226551	14.47
7M87035.D	AD00172-001(MSD)	17880	2.65	43993	5.88	184390	6.89	122845	8.32	231976	9.78	273526	12.84	254238	14.47
7M87036.D	AD00374-002	21739	2.65	54449	5.88	215150	6.88	136843	8.32	241770	9.78	236647	12.84	220917	14.47
7M87037.D	AD00361-026(5X)	23334	2.65	54604	5.88	221151	6.88	148662	8.32	264669	9.78	252864	12.84	228408	14.47
7M87038.D	AD00361-028(5X)	22747	2.65	55025	5.88	228734	6.88	156857	8.32	282440	9.78	269699	12.84	247133	14.47
7M87039.D	AD00361-023(3X)	24391	2.65	56790	5.88	233953	6.88	155134	8.32	274439	9.78	260474	12.84	243641	14.47
7M87040.D	AD00275-030(3X)	22774	2.65	55481	5.88	227218	6.88	151686	8.32	272285	9.78	257843	12.84	240387	14.47
7M87041.D	AD00275-027(3X)	24605	2.65	58707	5.88	239208	6.88	158749	8.32	275716	9.78	258826	12.84	240503	14.47
7M87042.D	AD00275-028	20381	2.65	48078	5.88	194365	6.88	129027	8.32	225009	9.78	216634	12.84	206683	14.47
7M87043.D	AD00275-029	21759	2.65	55321	5.88	225300	6.89	148243	8.32	260038	9.78	255006	12.84	250697	14.47
7M87044.D	AD00275-031	22372	2.65	52750	5.88	216141	6.89	141422	8.32	245497	9.78	236417	12.84	227687	14.47
7M87045.D	AD00275-032	21337	2.65	52752	5.88	214287	6.89	138698	8.32	240484	9.78	232534	12.84	223053	14.47
7M87046.D	AD00275-033	20621	2.65	51251	5.88	206448	6.89	135832	8.32	236447	9.78	229181	12.84	220350	14.47
7M87047.D	AD00275-034	21936	2.65	52833	5.88	219549	6.88	147337	8.32	260928	9.78	248842	12.84	235910	14.47
7M87048.D	AD00286-001(3X)	23981	2.66	56603	5.88	230092	6.89	148104	8.32	238339	9.78	255902	12.86	268635	14.51

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10			624/8260 Internal Standard concentration = 30ug/L
I3 =	Naphthalene-d8	I6 =	Chrysene-d12			524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

PCB Data

Form1

ORGANICS PCB REPORT

Sample Number: AD00298-002
Client Id: 475 EXTERIOR NYRECYC
Data File: 3G103989.D
Analysis Date: 10/03/17 21:37
Date Rec/Extracted: 09/28/17-10/03/17
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.027	U	11097-69-1	Aroclor-1254	0.027	U
11104-28-2	Aroclor-1221	0.027	U	11096-82-5	Aroclor-1260	0.027	U
11141-16-5	Aroclor-1232	0.027	U	37324-23-5	Aroclor-1262	0.027	U
53469-21-9	Aroclor-1242	0.027	U	11100-14-4	Aroclor-1268	0.027	U
12672-29-6	Aroclor-1248	0.027	U	1336-36-3	Aroclor (Total)	0.027	U

Worksheet #: 439171

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2017\GC_3\Data\10-03-17\
Data File : 3G103989.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 3 Oct 2017 21:37
Operator : MS/MLC/ZM
Sample : AD00298-002
Misc : S,PCB
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 12:36:03 2017
Quant Method : G:\GCDATA\2017\GC_3\METHODQT\3G_C0911.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Sep 12 09:39:25 2017
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.827	3.865	351085	579830	70.384	70.601
45)DCB-Surrogate	9.979	10.655	318236	558327	61.801	64.608

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2017\GC_3\Data\10-03-17\
Data File : 3G103989.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 3 Oct 2017 21:37
Operator : MS/MLC/ZM
Sample : AD00298-002
Misc : S,PCB
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 12:36:03 2017
Quant Method : G:\GCDATA\2017\GC_3\METHODQT\3G_C0911.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Sep 12 09:39:25 2017
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

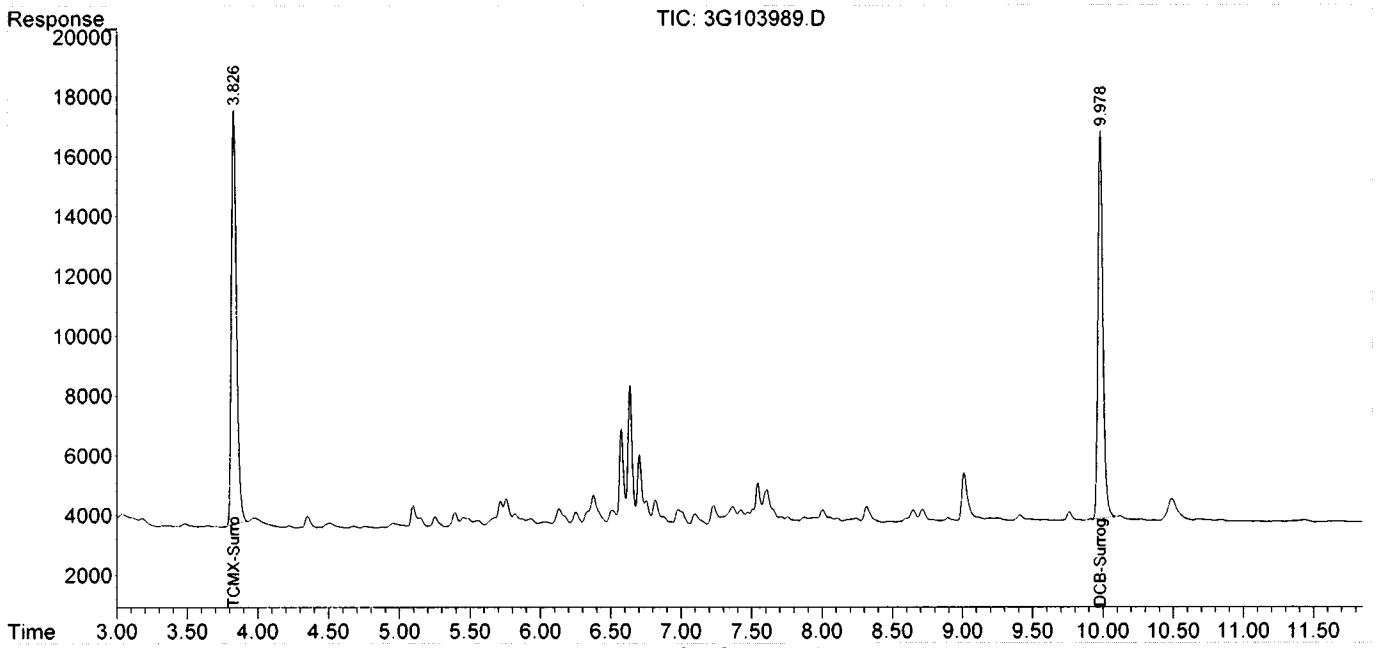

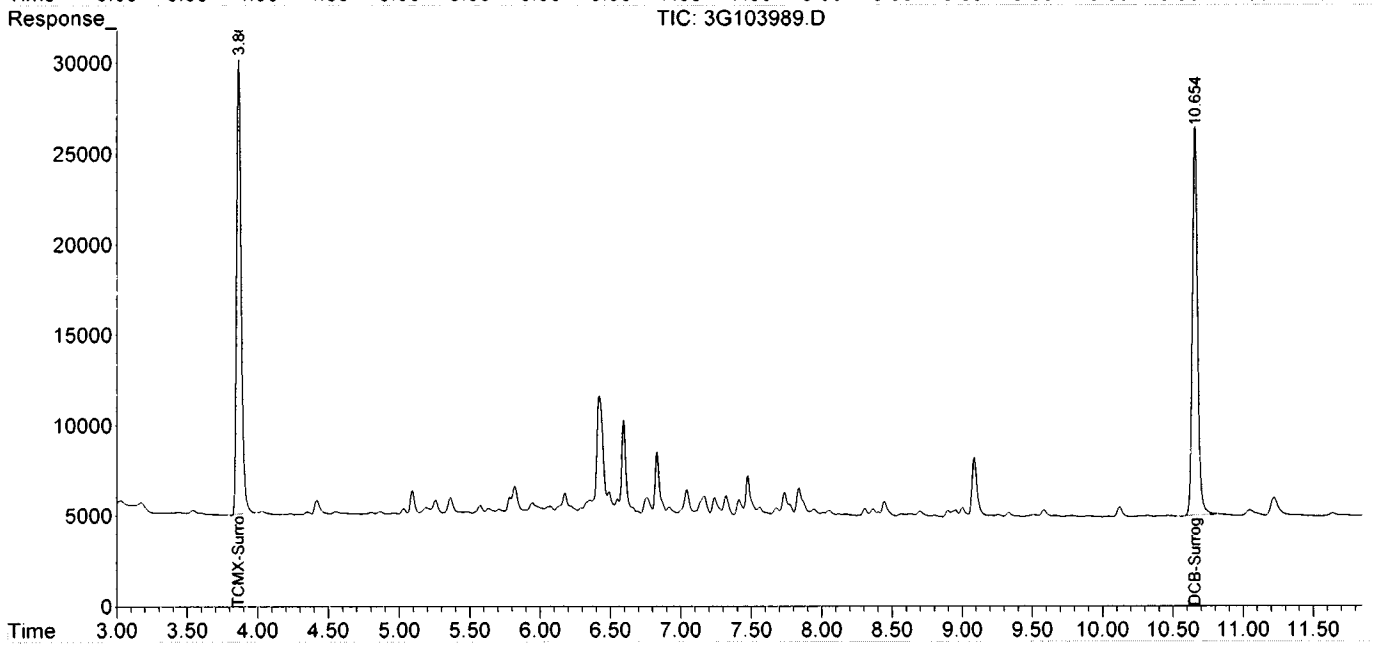

Form1

ORGANICS PCB REPORT

Sample Number: SMB63044
Client Id:
Data File: 3G103966.D
Analysis Date: 10/03/17 14:47
Date Rec/Extracted: NA-10/03/17
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.025	U	11097-69-1	Aroclor-1254	0.025	U
11104-28-2	Aroclor-1221	0.025	U	11096-82-5	Aroclor-1260	0.025	U
11141-16-5	Aroclor-1232	0.025	U	37324-23-5	Aroclor-1262	0.025	U
53469-21-9	Aroclor-1242	0.025	U	11100-14-4	Aroclor-1268	0.025	U
12672-29-6	Aroclor-1248	0.025	U				

Worksheet #: 439171

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2017\GC_3\Data\10-03-17\
Data File : 3G103966.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 3 Oct 2017 14:47
Operator : MS/MLC/ZM
Sample : SMB63044
Misc : S,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 03 16:25:12 2017
Quant Method : G:\GCDATA\2017\GC_3\METHODQT\3G_C0911.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Sep 12 09:39:25 2017
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.829	3.863	429523	702966	86.109	85.594
45)DCB-Surrogate	9.984	10.654	352237	662667	68.483	76.916m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2017\GC_3\Data\10-03-17\
Data File : 3G103966.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 3 Oct 2017 14:47
Operator : MS/MLC/ZM
Sample : SMB63044
Misc : S,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 03 16:25:12 2017
Quant Method : G:\GCDATA\2017\GC_3\METHODQT\3G_C0911.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Tue Sep 12 09:39:25 2017
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

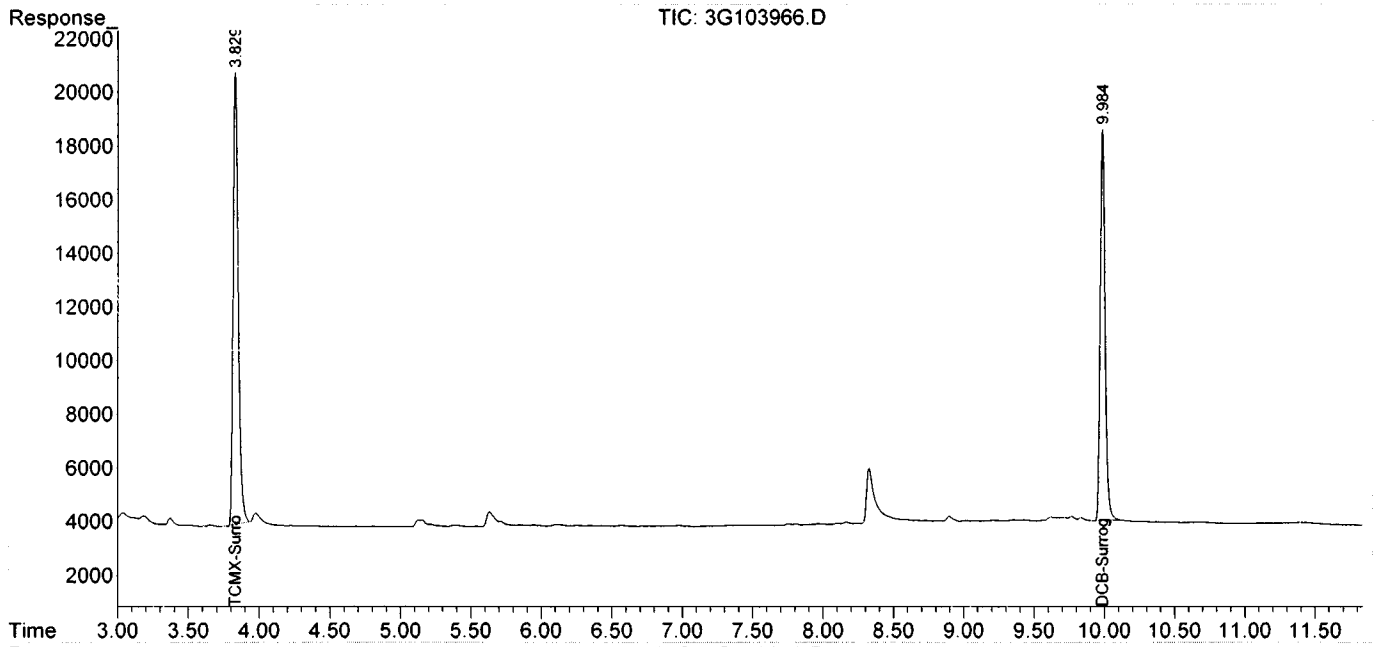

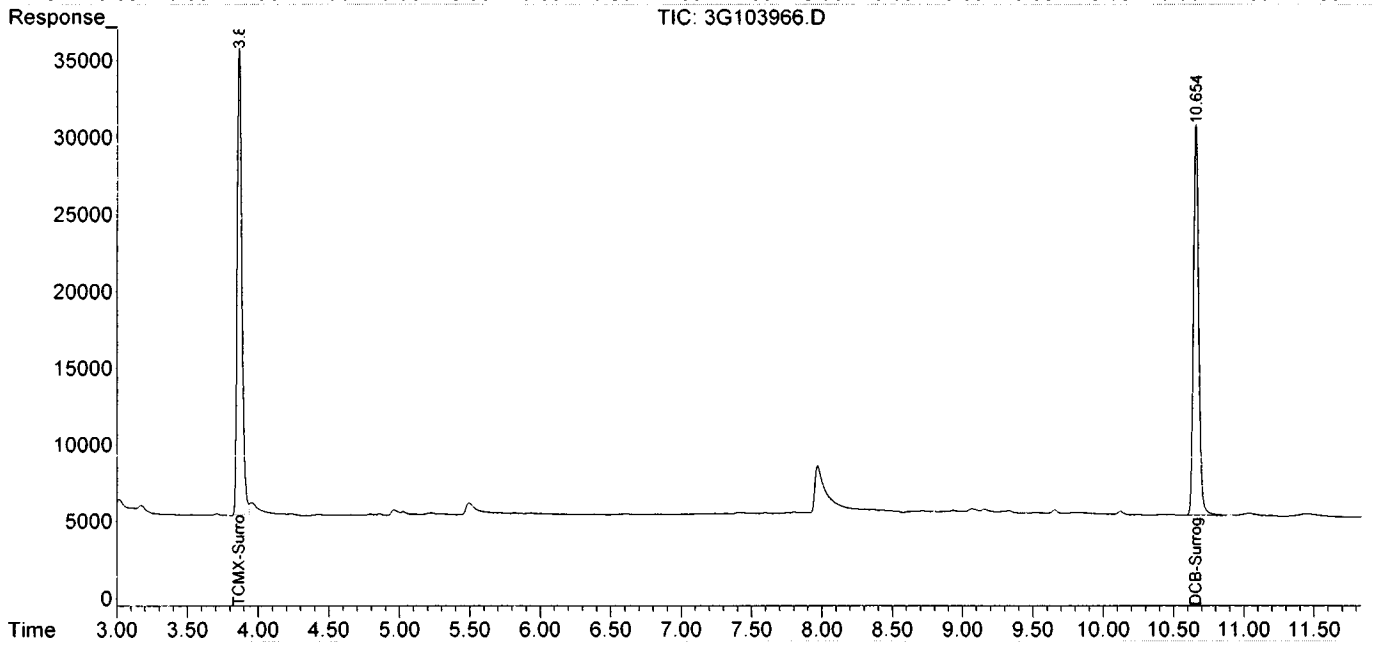

FORM2

Surrogate Recovery

Method: EPA 8082A

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column1 S3 Recov	Column2 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
3G103966.D	SMB63044	S	10/03/17 14:47	1		86	86	68	77		
3G103989.D	AD00298-002	S	10/03/17 21:37	1		70	71	62	65		
3G103967.D	SMB63044(MS)	S	10/03/17 15:02	1		85	84	70	77		
3G103984.D	AD00316-027(MS)	S	10/03/17 20:22	1		91	84	87	89		
3G103985.D	AD00316-027(MSD)	S	10/03/17 20:37	1		84	80	74	82		
3G103986.D	AD00316-027	S	10/03/17 20:52	1		90	86	79	85		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8082A

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	37-141
S2=TCMX-Surrogate	100	37-141
S3=DCB-Surrogate	100	34-146
S4=DCB-Surrogate	100	34-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63044

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G103967.D	SMB63044(MS)	10/3/2017 3:02:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	904.983	0	1000	90	30	163
Aroclor-1260 -Total	1	939.611	0	1000	94	25	166

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63044

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G103984.D	AD00316-027(MS)	10/3/2017 8:22:00 PM
Non Spike(If applicable):	3G103986.D	AD00316-027	10/3/2017 8:52:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	938.805	0	1000	94	30	163
Aroclor-1260 -Total	1	1101.776	0	1000	110	25	166

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G103985.D	AD00316-027(MSD)	10/3/2017 8:37:00 PM
Non Spike(If applicable):	3G103986.D	AD00316-027	10/3/2017 8:52:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	909.366	0	1000	91	30	163
Aroclor-1260 -Total	1	1057.785	0	1000	106	25	166

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: SMB63044

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G103985.D	AD00316-027(MSD)	10/3/2017 8:37:00 PM
Duplicate(If applicable):	3G103984.D	AD00316-027(MS)	10/3/2017 8:22:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Aroclor-1016 -Total	1	909.366	938.805	3.2	40
Aroclor-1260 -Total	1	1057.785	1101.776	4.1	37

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: SMB63044
Blank Data File: 3G103966.D
Matrix: Soil

Blank Analysis Date: 10/03/17 14:47
Blank Extraction Date: 10/03/17
(If Applicable)
Method: EPA 8082A

Sample Number	Data File	Analysis Date
AD00298-002	3G103989.D	10/03/17 21:37
AD00316-027	3G103986.D	10/03/17 20:52
AD00316-027(MSD	3G103985.D	10/03/17 20:37
AD00316-027(MS)	3G103984.D	10/03/17 20:22
SMB63044(MS)	3G103967.D	10/03/17 15:02

Form 5

Method: EPA 8082A

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G103438.D	1000	09/11/17 12:16	Soil					
3G103442.D	CAL 3268@500PPB	09/11/17 13:55	Soil	3G10345	9.9848	0.007	10.6554	0.0131
3G103443.D	CAL 1242@500PPB	09/11/17 14:10	Soil	3G10345	9.9856	0.015	10.6559	0.0178
3G103444.D	CAL 1248@500PPB	09/11/17 14:28	Soil	3G10345	9.9886	0.0451	10.6574	0.0319
3G103445.D	CAL 2154@500PPB	09/11/17 14:43	Soil	3G10345	9.9847	0.006	10.6534	0.0056
3G103446.D	CAL 1262@500PPB	09/11/17 14:58	Soil	3G10345	9.9849	0.008	10.6548	0.0075
3G103447.D	50PPB	09/11/17 15:13	Soil	3G10345	9.9859	0.018	10.6562	0.0206
3G103448.D	CAL 1660@200PPB	09/11/17 15:28	Soil	3G10345	9.9849	0.008	10.6558	0.0169
3G103449.D	50PPB	09/11/17 16:04	Soil	3G10345	9.9963	0.1221	10.6614	0.0694
3G103450.D	4000PPB	09/11/17 17:18	Soil	3G10345	9.9875	0.034	10.6542	0.0019
3G103451.D	CAL 1660@500PPB	09/11/17 17:33	Soil	3G10345	9.9847	0.006	10.6537	0.0028
3G103452.D	CAL 1660@1000PPB	09/11/17 17:48	Soil	3G10345	9.9831	0.01	10.6530	0.0094
3G103453.D	CAL 1660@2000PPB	09/11/17 18:03	Soil	3G10345	9.9827	0.014	10.6526	0.0131
3G103454.D	CAL 1660@50PPB	09/11/17 18:18	Soil	3G10345	9.9841	0	10.6540	0
3G103455.D	CAL 1660@4000PPB	09/11/17 18:33	Soil	3G10345	9.9825	0.016	10.6528	0.0113
3G103456.D	ICV	09/11/17 18:48	Soil	3G10345	9.9822	0.019	10.6531	0.0085
3G103457.D	PEST WS	09/11/17 19:03	Soil	3G10345	0.0000	200 *	0.0000	200 *

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8082A

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G103962.D	CAL 1660@500PPB	10/03/17 10:53	Soil	3G10396	9.9827	0	10.6515	0
3G103963.D	271-001	10/03/17 13:05	Soil	3G10396	9.9856	0.029	10.6544	0.0272
3G103964.D	AD00271-001	10/03/17 13:45	Soil	3G10396	9.9865	0.0381	10.6556	0.0385
3G103965.D	CAL 1660@500PPB	10/03/17 14:26	Soil	3G10396	9.9860	0.033	10.6550	0.0329
3G103966.D	SMB63044	10/03/17 14:47	Soil	3G10396	9.9843	0.017	10.6541	0.0084
3G103967.D	SMB63044(MS)	10/03/17 15:02	Soil	3G10396	9.9790	0.0701	10.6533	0.016
3G103968.D	SMB63045	10/03/17 15:17	Soil	3G10396	9.9793	0.0671	10.6544	0.0056
3G103969.D	SMB63045(MS)	10/03/17 15:32	Soil	3G10396	9.9780	0.0801	10.6538	0.0113
3G103970.D	WMB63055(MS)	10/03/17 15:46	Aqueous	3G10396	9.9787	0.0731	10.6549	0.0009
3G103971.D	WMB63055	10/03/17 16:21	Aqueous	3G10396	9.9854	0.006	10.6544	0.0056
3G103972.D	AD00301-015	10/03/17 17:12	Aqueous	3G10396	9.9861	0.001	10.6551	0.0009
3G103973.D	AD00358-011	10/03/17 17:27	Aqueous	3G10396	9.9793	0.0671	10.6548	0.0019
3G103974.D	AD00317-011	10/03/17 17:41	Aqueous	3G10396	9.9783	0.0771	10.6540	0.0094
3G103975.D	AD00309-007	10/03/17 17:56	Aqueous	3G10396	9.9772	0.0882	10.6533	0.016
3G103976.D	TEST(PCB SPK)	10/03/17 18:11	Aqueous	3G10396	9.9777	0.0831	10.6539	0.0103
3G103977.D	AD00301-001	10/03/17 18:38	Soil	3G10396	9.9852	0.008	10.6559	0.0084
3G103978.D	AD00301-002	10/03/17 18:53	Soil	3G10396	9.9802	0.0581	10.6539	0.0103
3G103979.D	AD00301-003	10/03/17 19:08	Soil	3G10396	9.9795	0.0651	10.6537	0.0122
3G103980.D	AD00301-004	10/03/17 19:23	Soil	3G10396	9.9787	0.0731	10.6535	0.0141
3G103981.D	AD00301-005	10/03/17 19:38	Soil	3G10396	9.9792	0.0681	10.6538	0.0113
3G103982.D	1000PPB	10/03/17 19:53	Soil	3G10396	9.9795	0.0651	10.6556	0.0056
3G103983.D	CAL 1660@2000PPB	10/03/17 20:07	Soil	3G10396	9.9794	0.0661	10.6554	0.0038
3G103984.D	AD00316-027(MS)	10/03/17 20:22	Soil	3G10398	9.9793	0.001	10.6550	0.0038
3G103985.D	AD00316-027(MSD)	10/03/17 20:37	Soil	3G10398	9.9787	0.007	10.6545	0.0084
3G103986.D	AD00316-027	10/03/17 20:52	Soil	3G10398	9.9790	0.004	10.6551	0.0028
3G103987.D	AD00316-026	10/03/17 21:07	Soil	3G10398	9.9788	0.006	10.6537	0.016
3G103988.D	AD00316-028	10/03/17 21:22	Soil	3G10398	9.9800	0.006	10.6559	0.0047
3G103989.D	AD00298-002	10/03/17 21:37	Soil	3G10398	9.9793	0.001	10.6548	0.0056
3G103990.D	AD00301-006	10/03/17 21:51	Soil	3G10398	9.9802	0.008	10.6557	0.0028
3G103991.D	AD00301-007	10/03/17 22:06	Soil	3G10398	9.9794	0	10.6561	0.0066
3G103992.D	AD00301-008	10/03/17 22:21	Soil	3G10398	9.9797	0.003	10.6561	0.0066
3G103993.D	AD00301-009	10/03/17 22:36	Soil	3G10398	9.9812	0.018	10.6565	0.0103
3G103994.D	AD00301-010	10/03/17 22:52	Soil	3G10398	9.9804	0.01	10.6556	0.0019
3G103995.D	AD00301-011	10/03/17 23:06	Soil	3G10398	9.9793	0.001	10.6551	0.0028
3G103996.D	AD00301-012	10/03/17 23:21	Soil	3G10398	9.9798	0.004	10.6556	0.0019
3G103997.D	AD00301-013	10/03/17 23:36	Soil	3G10398	9.9810	0.016	10.6568	0.0131
3G103998.D	AD00301-014	10/03/17 23:52	Soil	3G10398	9.9800	0.006	10.6560	0.0056
3G103999.D	1000PPB	10/04/17 00:06	Soil	3G10398	9.9798	0.004	10.6567	0.0122
3G104000.D	CAL 1660@2000PPB	10/04/17 00:21	Soil	3G10398	9.9805	0.011	10.6562	0.0075
3G104001.D	AD00309-001(MS)	10/04/17 00:37	Soil	3G10400	9.9794	0.011	10.6537	0.0235
3G104002.D	AD00309-001(MSD)	10/04/17 00:52	Soil	3G10400	9.9808	0.003	10.6559	0.0028
3G104003.D	AD00309-001	10/04/17 01:07	Soil	3G10400	9.9814	0.009	10.6571	0.0084
3G104004.D	AD00309-006	10/04/17 01:22	Soil	3G10400	9.9827	0.022	10.6584	0.0206
3G104005.D	AD00309-004	10/04/17 01:37	Soil	3G10400	9.9834	0.0291	10.6587	0.0235
3G104006.D	AD00309-005	10/04/17 01:52	Soil	3G10400	9.9828	0.023	10.6578	0.015
3G104007.D	AD00296-012	10/04/17 02:07	Soil	3G10400	9.9829	0.024	10.6579	0.0159
3G104008.D	BLK	10/04/17 02:22	Soil	3G10400	9.9831	0.026	10.6580	0.0169
3G104009.D	1000PPB	10/04/17 02:37	Soil	3G10400	9.9820	0.015	10.6584	0.0206
3G104010.D	CAL 1660@2000PPB	10/04/17 02:53	Soil	3G10400	9.9831	0.026	10.6585	0.0216

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G103454.D	CAL 1660@50PPB	09/11/17 18:18	2	3G103448.D	CAL 1660@200PPB	09/11/17 15:28
3	3G103451.D	CAL 1660@500PPB	09/11/17 17:33	4	3G103452.D	CAL 1660@1000PPB	09/11/17 17:48
5	3G103453.D	CAL 1660@2000PPB	09/11/17 18:03	6	3G103455.D	CAL 1660@4000PPB	09/11/17 18:33
7	3G103442.D	CAL 3268@500PPB	09/11/17 13:55	8	3G103443.D	CAL 1242@500PPB	09/11/17 14:10
9	3G103444.D	CAL 1248@500PPB	09/11/17 14:28	10	3G103445.D	CAL 2154@500PPB	09/11/17 14:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	Avg	0.5051	0.4680	0.4982	0.5036	0.5073	0.5105	----	----	0.499	3.83	1.00	1.00	3.1	5.00	20.00	50.00	100.0	200.0	400.0		
Aroclor-1016	1	1	Qua	0.0183	0.0150	0.0143	0.0136	0.0125	0.0120	----	----	0.0143	4.32	0.999	1.00	16	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	2	Qua	0.0338	0.0298	0.0274	0.0259	0.0237	0.0218	----	----	0.0271	4.68	0.997	1.00	16	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	3	Qua	0.0637	0.0539	0.0518	0.0498	0.0463	0.0432	----	----	0.0515	5.13	0.998	1.00	14	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	4	Avg	0.0178	0.0160	0.0160	0.0158	0.0151	0.0145	----	----	0.0159	5.37	0.999	1.00	7.0	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	5	Qua	0.0427	0.0380	0.0357	0.0350	0.0322	0.0301	----	----	0.0357	5.49	0.998	1.00	13	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	1	Qua	0.0361	0.0383	0.0301	0.0290	0.0266	0.0255	----	----	0.0310	6.98	0.999	1.00	17	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	2	Qua	0.0420	0.0484	0.0359	0.0335	0.0309	0.0294	----	----	0.0367	7.23	0.999	0.999	20	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	3	Avg	0.0196	0.0212	0.0172	0.0171	0.0166	0.0169	----	----	0.0182	7.42	1.00	1.00	10	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	4	Qua	0.0263	0.0224	0.0221	0.0217	0.0203	0.0200	----	----	0.0222	8.00	1.00	1.00	10	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	5	Avg	0.0366	0.0336	0.0345	0.0357	0.0322	0.0334	----	----	0.0344	8.72	0.999	0.999	4.7	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1221	1	1	Avg	----	----	----	----	----	----	----	----	0.00675	4.12	-1	-1	Lvl=10	500.0							
Aroclor-1221	1	2	Avg	----	----	----	----	----	----	----	----	0.00420	4.26	-1	-1	Lvl=10	500.0							
Aroclor-1221	1	3	Avg	----	----	----	----	----	----	----	----	0.0204	4.32	-1	-1	Lvl=10	500.0							
Aroclor-1232	1	1	Avg	----	----	----	----	----	----	----	----	0.0144	4.32	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	2	Avg	----	----	----	----	----	----	----	----	0.0124	4.68	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	3	Avg	----	----	----	----	----	----	----	----	0.0215	5.14	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	4	Avg	----	----	----	----	----	----	----	----	0.0101	5.27	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	5	Avg	----	----	----	----	----	----	----	----	0.00994	5.73	-1	-1	Lvl=7	500.0							
Aroclor-1242	1	1	Avg	----	----	----	----	----	----	----	----	0.0124	4.32	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	2	Avg	----	----	----	----	----	----	----	----	0.0220	4.68	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	3	Avg	----	----	----	----	----	----	----	----	0.0405	5.14	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	4	Avg	----	----	----	----	----	----	----	----	0.0272	5.49	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	5	Avg	----	----	----	----	----	----	----	----	0.0168	5.73	-1	-1	Lvl=8	500.0							
Aroclor-1248	1	1	Avg	----	----	----	----	----	----	----	----	0.0106	4.68	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	2	Avg	----	----	----	----	----	----	----	----	0.0239	5.14	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	3	Avg	----	----	----	----	----	----	----	----	0.0411	5.48	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	4	Avg	----	----	----	----	----	----	----	----	0.0209	5.83	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	5	Avg	----	----	----	----	----	----	----	----	0.0239	6.42	-1	-1	Lvl=9	500.0							
Aroclor-1254	1	1	Avg	----	----	----	----	----	----	----	----	0.0107	6.62	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	2	Avg	----	----	----	----	----	----	----	----	0.0353	6.82	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	3	Avg	----	----	----	----	----	----	----	----	0.0240	6.98	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	4	Avg	----	----	----	----	----	----	----	----	0.0376	7.10	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	5	Avg	----	----	----	----	----	----	----	----	0.0150	7.48	-1	-1	Lvl=10	500.0							
Aroclor-1262	1	1	Avg	----	----	----	----	----	----	----	----	0.0365	7.65	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	2	Avg	----	----	----	----	----	----	----	----	0.0208	8.65	-1	-1	Lvl=11	500.0							

Avg Rsd Col 1: 11.78 Avg Rsd Col 2: 18.49

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

7092827 0147

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G103454.D	CAL 1660@50PPB	09/11/17 18:18	2	3G103448.D	CAL 1660@200PPB	09/11/17 15:28
3	3G103451.D	CAL 1660@500PPB	09/11/17 17:33	4	3G103452.D	CAL 1660@1000PPB	09/11/17 17:48
5	3G103453.D	CAL 1660@2000PPB	09/11/17 18:03	6	3G103455.D	CAL 1660@4000PPB	09/11/17 18:33
7	3G103442.D	CAL 3268@500PPB	09/11/17 13:55	8	3G103443.D	CAL 1242@500PPB	09/11/17 14:10
9	3G103444.D	CAL 1248@500PPB	09/11/17 14:28	10	3G103445.D	CAL 2154@500PPB	09/11/17 14:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
^Aroclor-1262	1	3	Avg	----	----	----	----	----	----	----	----	0.0416	8.71	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	4	Avg	----	----	----	----	----	----	----	----	0.0203	9.42	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	5	Avg	----	----	----	----	----	----	----	----	0.00670	9.77	-1	-1	Lvl=11	500.0							
Aroclor-1268	1	1	Avg	----	----	----	----	----	----	----	----	0.00524	8.00	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	2	Avg	----	----	----	----	----	----	----	----	0.00569	8.32	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	3	Avg	----	----	----	----	----	----	----	----	0.0505	8.89	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	4	Avg	----	----	----	----	----	----	----	----	0.0140	8.99	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	5	Avg	----	----	----	----	----	----	----	----	0.168	9.77	-1	-1	Lvl=7	500.0							
DCB-Surrogate	1	0	Qua	0.6581	0.5317	0.5356	0.5222	0.4959	0.4851	----	----	0.538	9.98	1.00	1.00	12	5.00	20.00	50.00	100.0	200.0	400.0		
TCMX-Surrogate	2	0	Avg	0.9085	0.8043	0.8058	0.8086	0.8021	0.7981	----	----	0.821	3.86	1.00	1.00	5.2	5.00	20.00	50.00	100.0	200.0	400.0		
Aroclor-1016	2	1	Qua	0.0332	0.0246	0.0210	0.0196	0.0180	0.0162	----	----	0.0221	4.45	0.997	1.00	28	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	2	Qua	0.0591	0.0499	0.0421	0.0390	0.0352	0.0322	----	----	0.0430	4.87	0.997	1.00	23	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	3	Qua	0.1143	0.0955	0.0835	0.0790	0.0732	0.0687	----	----	0.0858	5.25	0.999	1.00	20	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	4	Qua	0.0503	0.0424	0.0371	0.0353	0.0324	0.0302	----	----	0.0380	5.57	0.998	1.00	19	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	5	Qua	0.0361	0.0293	0.0267	0.0253	0.0235	0.0219	----	----	0.0272	5.94	0.998	1.00	19	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	1	Qua	0.0722	0.0587	0.0513	0.0483	0.0438	0.0413	----	----	0.0526	7.23	0.999	1.00	22	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	2	Qua	0.0771	0.0616	0.0550	0.0512	0.0471	0.0446	----	----	0.0562	7.32	0.999	1.00	21	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	3	Qua	0.0379	0.0245	0.0263	0.0219	0.0201	0.0190	----	----	0.0250	7.94	0.998	0.999	28	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	4	Qua	0.0563	0.0508	0.0489	0.0441	0.0424	0.0425	----	----	0.0476	8.30	1.00	1.00	12	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	5	Qua	0.0528	0.0427	0.0399	0.0401	0.0376	0.0382	----	----	0.0419	9.00	1.00	1.00	13	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1221	2	1	Avg	----	----	----	----	----	----	----	----	0.0118	4.24	-1	-1	Lvl=10	500.0							
Aroclor-1221	2	2	Avg	----	----	----	----	----	----	----	----	0.00783	4.38	-1	-1	Lvl=10	500.0							
Aroclor-1221	2	3	Avg	----	----	----	----	----	----	----	----	0.0260	4.45	-1	-1	Lvl=10	500.0							
Aroclor-1232	2	1	Avg	----	----	----	----	----	----	----	----	0.0193	4.45	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	2	Avg	----	----	----	----	----	----	----	----	0.0208	4.87	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	3	Avg	----	----	----	----	----	----	----	----	0.0362	5.25	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	4	Avg	----	----	----	----	----	----	----	----	0.0149	5.94	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	5	Avg	----	----	----	----	----	----	----	----	0.0123	6.08	-1	-1	Lvl=7	500.0							
Aroclor-1242	2	1	Avg	----	----	----	----	----	----	----	----	0.0187	4.45	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	2	Avg	----	----	----	----	----	----	----	----	0.0350	4.87	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	3	Avg	----	----	----	----	----	----	----	----	0.0671	5.24	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	4	Avg	----	----	----	----	----	----	----	----	0.0294	5.57	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	5	Avg	----	----	----	----	----	----	----	----	0.0248	5.94	-1	-1	Lvl=8	500.0							
Aroclor-1248	2	1	Avg	----	----	----	----	----	----	----	----	0.0166	4.87	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	2	Avg	----	----	----	----	----	----	----	----	0.0407	5.24	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	3	Avg	----	----	----	----	----	----	----	----	0.0318	5.57	-1	-1	Lvl=9	500.0							

Avg Rsd Col 1: 11.78 Avg Rsd Col 2: 18.49

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

7092827 0148

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G103454.D	CAL 1660@50PPB	09/11/17 18:18	2	3G103448.D	CAL 1660@200PPB	09/11/17 15:28
3	3G103451.D	CAL 1660@500PPB	09/11/17 17:33	4	3G103452.D	CAL 1660@1000PPB	09/11/17 17:48
5	3G103453.D	CAL 1660@2000PPB	09/11/17 18:03	6	3G103455.D	CAL 1660@4000PPB	09/11/17 18:33
7	3G103442.D	CAL 3268@500PPB	09/11/17 13:55	8	3G103443.D	CAL 1242@500PPB	09/11/17 14:10
9	3G103444.D	CAL 1248@500PPB	09/11/17 14:28	10	3G103445.D	CAL 2154@500PPB	09/11/17 14:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aroclor-1248	2	4	Avg	----	----	----	----	----	----	----	----	0.0293	6.08	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	5	Avg	----	----	----	----	----	----	----	----	0.0392	6.21	-1	-1	Lvl=9	500.0							
Aroclor-1254	2	1	Avg	----	----	----	----	----	----	----	----	0.0554	6.43	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	2	Avg	----	----	----	----	----	----	----	----	0.0183	6.77	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	3	Avg	----	----	----	----	----	----	----	----	0.0457	7.16	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	4	Avg	----	----	----	----	----	----	----	----	0.0216	7.67	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	5	Avg	----	----	----	----	----	----	----	----	0.0194	8.36	-1	-1	Lvl=10	500.0							
Aroclor-1262	2	1	Avg	----	----	----	----	----	----	----	----	0.0465	7.74	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	2	Avg	----	----	----	----	----	----	----	----	0.0362	8.89	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	3	Avg	----	----	----	----	----	----	----	----	0.0391	9.00	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	4	Avg	----	----	----	----	----	----	----	----	0.0449	9.58	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	5	Avg	----	----	----	----	----	----	----	----	0.0124	10.12	-1	-1	Lvl=11	500.0							
Aroclor-1268	2	1	Avg	----	----	----	----	----	----	----	----	0.00908	8.40	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	2	Avg	----	----	----	----	----	----	----	----	0.0148	8.44	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	3	Avg	----	----	----	----	----	----	----	----	0.0818	9.33	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	4	Avg	----	----	----	----	----	----	----	----	0.0213	9.48	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	5	Avg	----	----	----	----	----	----	----	----	0.274	10.12	-1	-1	Lvl=7	500.0							
DCB-Surrogate	2	0	Qua	1.1135	0.9019	0.9228	0.8717	0.8227	0.7938	----	----	0.904	10.65	0.999	1.00	13	5.00	20.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 11.78 Avg Rsd Col 2: 18.49

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

7092827 0149

Form7
Continuing Calibration

Method: EPA 8082A

Data File:				3G103965.D			3G103983.D			3G104000.D													
Method:				8082			8082			8082													
Calibration Name:				CAL 1660@500PP			CAL 1660@2000PP			CAL 1660@2000PP													
Calibration Date/Time				10/03/17 14:26			10/03/17 20:07			10/04/17 00:21													
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
TCMX-Surrogate	20	1	0	47.75	50	4.5	202.8	200	1.4	213.8	200	6.9						
Aroclor-1016	20	1	1	561.4	500	12.3	2100	2000	5.0	2212	2000	10.6						
Aroclor-1016	20	1	2	541.7	500	8.3	2010	2000	0.5	2117	2000	5.9						
Aroclor-1016	20	1	3	513.2	500	2.6	2006	2000	0.3	2219	2000	11.0						
Aroclor-1016	20	1	4	492.5	500	1.5	1937	2000	3.1	2031	2000	1.6						
Aroclor-1016	20	1	5	505.3	500	1.1	2085	2000	4.3	2208	2000	10.4						
Aroclor-1260	20	1	1	536.8	500	7.4	2110	2000	5.5	2226	2000	11.3						
Aroclor-1260	20	1	2	521	500	4.2	2103	2000	5.2	2227	2000	11.3						
Aroclor-1260	20	1	3	487.6	500	2.5	2013	2000	0.6	2140	2000	7.0						
Aroclor-1260	20	1	4	528.4	500	5.7	2143	2000	7.1	2258	2000	12.9						
Aroclor-1260	20	1	5	464.8	500	7.0	2032	2000	1.6	2132	2000	6.6						
DCB-Surrogate	20	1	0	39.88	50	20.2	170.6	200	14.7	166.7	200	16.7						
Average Difference	20	1	0			6.4			4.1			9.3						
TCMX-Surrogate	20	2	0	48.12	50	3.8	199.4	200	0.3	211.5	200	5.8						
Aroclor-1016	20	2	1	575.5	500	15.1	2106	2000	5.3	2218	2000	10.9						
Aroclor-1016	20	2	2	571.7	500	14.3	2059	2000	2.9	2178	2000	8.9						
Aroclor-1016	20	2	3	552.1	500	10.4	2100	2000	5.0	2226	2000	11.3						
Aroclor-1016	20	2	4	556.1	500	11.2	2082	2000	4.1	2200	2000	10.0						
Aroclor-1016	20	2	5	546.3	500	9.3	2072	2000	3.6	2196	2000	9.8						
Aroclor-1260	20	2	1	571.2	500	14.2	2203	2000	10.1	2316	2000	15.8						
Aroclor-1260	20	2	2	567.2	500	13.4	2222	2000	11.1	2332	2000	16.6						
Aroclor-1260	20	2	3	532.7	500	6.5	2172	2000	8.6	2275	2000	13.8						
Aroclor-1260	20	2	4	547.9	500	9.6	2126	2000	6.3	2212	2000	10.6						
Aroclor-1260	20	2	5	531.5	500	6.3	2158	2000	7.9	2221	2000	11.1						
DCB-Surrogate	20	2	0	47.17	50	5.7	176.3	200	11.8	168.3	200	15.9						
Average Difference	20	2	0			10.0			6.4			11.7						

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
RtWindow Summary

Method: EPA 8082A

Data File:			3G103454.D		3G103965.D		3G103983.D					
Calibration Name:			CAL 1660@50PPB		CAL 1660@500PPB		CAL 1660@2000PPB					
Calibration Date/Time			9/11/2017 6:18:00 PM		10/3/2017 2:26:00 PM		10/3/2017 8:07:00 PM					
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
TCMX-Surrogate	1	0	3.82	(3.76 - 3.88)	3.83	(3.77 - 3.89)	3.83	(3.77 - 3.89)				
Aroclor-1016	1	1	4.32	(4.28 - 4.36)	4.32	(4.28 - 4.36)	4.32	(4.28 - 4.36)				
Aroclor-1016	1	2	4.67	(4.63 - 4.71)	4.68	(4.64 - 4.72)	4.67	(4.63 - 4.71)				
Aroclor-1016	1	3	5.13	(5.09 - 5.17)	5.14	(5.10 - 5.18)	5.13	(5.09 - 5.17)				
Aroclor-1016	1	4	5.37	(5.33 - 5.41)	5.38	(5.34 - 5.42)	5.37	(5.33 - 5.41)				
Aroclor-1016	1	5	5.49	(5.45 - 5.53)	5.49	(5.45 - 5.53)	5.49	(5.45 - 5.53)				
Aroclor-1260	1	1	6.98	(6.94 - 7.02)	6.98	(6.94 - 7.02)	6.97	(6.93 - 7.01)				
Aroclor-1260	1	2	7.23	(7.19 - 7.27)	7.23	(7.19 - 7.27)	7.22	(7.18 - 7.26)				
Aroclor-1260	1	3	7.42	(7.38 - 7.46)	7.43	(7.39 - 7.47)	7.42	(7.38 - 7.46)				
Aroclor-1260	1	4	8.00	(7.96 - 8.04)	8.01	(7.97 - 8.05)	8.00	(7.96 - 8.04)				
Aroclor-1260	1	5	8.72	(8.68 - 8.76)	8.72	(8.68 - 8.76)	8.71	(8.67 - 8.75)				
Aroclor-1221	1	1	4.12	(4.08 - 4.16)								
Aroclor-1221	1	2	4.26	(4.22 - 4.30)								
Aroclor-1221	1	3	4.32	(4.28 - 4.36)								
Aroclor-1232	1	1	4.32	(4.28 - 4.36)								
Aroclor-1232	1	2	4.67	(4.63 - 4.71)								
Aroclor-1232	1	3	5.14	(5.10 - 5.18)								
Aroclor-1232	1	4	5.27	(5.23 - 5.31)								
Aroclor-1232	1	5	5.72	(5.68 - 5.76)								
Aroclor-1242	1	1	4.32	(4.28 - 4.36)								
Aroclor-1242	1	2	4.68	(4.64 - 4.72)								
Aroclor-1242	1	3	5.14	(5.10 - 5.18)								
Aroclor-1242	1	4	5.49	(5.45 - 5.53)								
Aroclor-1242	1	5	5.73	(5.69 - 5.77)								
Aroclor-1248	1	1	4.68	(4.64 - 4.72)								
Aroclor-1248	1	2	5.14	(5.10 - 5.18)								
Aroclor-1248	1	3	5.48	(5.44 - 5.52)								
Aroclor-1248	1	4	5.83	(5.79 - 5.87)								
Aroclor-1248	1	5	6.42	(6.38 - 6.46)								
Aroclor-1254	1	1	6.62	(6.58 - 6.66)								
Aroclor-1254	1	2	6.82	(6.78 - 6.86)								
Aroclor-1254	1	3	6.98	(6.94 - 7.02)								
Aroclor-1254	1	4	7.10	(7.06 - 7.14)								
Aroclor-1254	1	5	7.48	(7.44 - 7.52)								
Aroclor-1262	1	1	7.65	(7.61 - 7.69)								
Aroclor-1262	1	2	8.65	(8.61 - 8.69)								
Aroclor-1262	1	3	8.71	(8.67 - 8.75)								
Aroclor-1262	1	4	9.42	(9.38 - 9.46)								
Aroclor-1262	1	5	9.77	(9.73 - 9.81)								
Aroclor-1268	1	1	8.01	(7.97 - 8.05)								
Aroclor-1268	1	2	8.32	(8.28 - 8.36)								
Aroclor-1268	1	3	8.89	(8.85 - 8.93)								
Aroclor-1268	1	4	8.99	(8.95 - 9.03)								
Aroclor-1268	1	5	9.77	(9.73 - 9.81)								
DCB-Surrogate	1	0	9.98	(9.92 - 10.04)	9.99	(9.93 - 10.05)	9.98	(9.92 - 10.04)				
TCMX-Surrogate	2	0	3.86	(3.80 - 3.92)	3.86	(3.80 - 3.92)	3.86	(3.80 - 3.92)				
Aroclor-1016	2	1	4.45	(4.41 - 4.49)	4.45	(4.41 - 4.49)	4.45	(4.41 - 4.49)				
Aroclor-1016	2	2	4.87	(4.83 - 4.91)	4.87	(4.83 - 4.91)	4.87	(4.83 - 4.91)				
Aroclor-1016	2	3	5.24	(5.20 - 5.28)	5.25	(5.21 - 5.29)	5.25	(5.21 - 5.29)				
Aroclor-1016	2	4	5.57	(5.53 - 5.61)	5.57	(5.53 - 5.61)	5.57	(5.53 - 5.61)				
Aroclor-1016	2	5	5.94	(5.90 - 5.98)	5.94	(5.90 - 5.98)	5.94	(5.90 - 5.98)				
Aroclor-1260	2	1	7.23	(7.19 - 7.27)	7.24	(7.20 - 7.28)	7.24	(7.20 - 7.28)				
Aroclor-1260	2	2	7.32	(7.28 - 7.36)	7.32	(7.28 - 7.36)	7.32	(7.28 - 7.36)				
Aroclor-1260	2	3	7.94	(7.90 - 7.98)	7.95	(7.91 - 7.99)	7.95	(7.91 - 7.99)				
Aroclor-1260	2	4	8.30	(8.26 - 8.34)	8.30	(8.26 - 8.34)	8.30	(8.26 - 8.34)				
Aroclor-1260	2	5	9.00	(8.96 - 9.04)	9.00	(8.96 - 9.04)	9.00	(8.96 - 9.04)				
Aroclor-1221	2	1	4.24	(4.20 - 4.28)								
Aroclor-1221	2	2	4.38	(4.34 - 4.42)								
Aroclor-1221	2	3	4.45	(4.41 - 4.49)								
Aroclor-1232	2	1	4.45	(4.41 - 4.49)								
Aroclor-1232	2	2	4.87	(4.83 - 4.91)								
Aroclor-1232	2	3	5.25	(5.21 - 5.29)								
Aroclor-1232	2	4	5.94	(5.90 - 5.98)								
Aroclor-1232	2	5	6.08	(6.04 - 6.12)								
Aroclor-1242	2	1	4.45	(4.41 - 4.49)								
Aroclor-1242	2	2	4.87	(4.83 - 4.91)								
Aroclor-1242	2	3	5.24	(5.20 - 5.28)								
Aroclor-1242	2	4	5.57	(5.53 - 5.61)								
Aroclor-1242	2	5	5.94	(5.90 - 5.98)								
Aroclor-1248	2	1	4.86	(4.82 - 4.90)								
Aroclor-1248	2	2	5.24	(5.20 - 5.28)								
Aroclor-1248	2	3	5.57	(5.53 - 5.61)								
Aroclor-1248	2	4	6.08	(6.04 - 6.12)								
Aroclor-1248	2	5	6.21	(6.17 - 6.25)								
Aroclor-1254	2	1	6.43	(6.39 - 6.47)								
Aroclor-1254	2	2	6.77	(6.73 - 6.81)								
Aroclor-1254	2	3	7.16	(7.12 - 7.20)								
Aroclor-1254	2	4	7.67	(7.63 - 7.71)								
Aroclor-1254	2	5	8.36	(8.32 - 8.40)								
Aroclor-1262	2	1	7.74	(7.70 - 7.78)								
Aroclor-1262	2	2	8.89	(8.85 - 8.93)								
Aroclor-1262	2	3	9.00	(8.96 - 9.04)								
Aroclor-1262	2	4	9.58	(9.54 - 9.62)								
Aroclor-1262	2	5	10.12	(10.08 - 10.16)								
Aroclor-1268	2	1	8.40	(8.36 - 8.44)								
Aroclor-1268	2	2	8.44	(8.40 - 8.48)								
Aroclor-1268	2	3	9.33	(9.29 - 9.37)								
Aroclor-1268	2	4	9.48	(9.44 - 9.52)								
Aroclor-1268	2	5	10.12	(10.08 - 10.16)								
DCB-Surrogate	2	0	10.65	(10.59 - 10.71)	10.66	(10.59 - 10.71)	10.66	(10.60 - 10.72)				

Pesticide Data

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD00298-002
Client Id: 475 EXTERIOR NYRECYC
Data File: 6G81158.D
Analysis Date: 10/04/17 03:39
Date Rec/Extracted: 09/28/17-10/03/17
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	**a-chlordane**	**0.0054**	**0.0082**	7421-93-4	Endrin Aldehyde	0.0054	U
309-00-2	Aldrin	0.0054	U	53494-70-5	Endrin Ketone	0.0054	U
319-84-6	alpha-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
319-85-7	beta-BHC	0.0011	U	76-44-8	Heptachlor	0.0054	U
12789-03-6	**(^)Chlordane (Technical)**	**0.027**	**0.055**	1024-57-3	Heptachlor Epoxide	0.0054	U
319-86-8	delta-BHC	0.0054	U	72-43-5	Methoxychlor	0.0054	U
60-57-1	Dieldrin	0.0011	U	72-54-8	p,p'-DDD	0.0027	U
959-98-8	Endosulfan I	0.0054	U	**72-55-9**	**(^)p,p'-DDE**	**0.0027**	**0.0052**
33213-65-9	Endosulfan II	0.0054	U	**50-29-3**	**(^)p,p'-DDT**	**0.0027**	**0.0091**
1031-07-8	Endosulfan Sulfate	0.0054	U	8001-35-2	Toxaphene	0.027	U
72-20-8	Endrin	0.0054	U	**5103-74-2**	**(^)y-chlordane**	**0.0054**	**0.0076**
57-74-9	**Chlordane (Total)**	**0.0054**	**0.016**				

Worksheet #: 439173

Total Target Concentration 0.0082

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2017\GC_6\Data\10-04-17\
Data File : 6G81158.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 4 Oct 2017 3:39
Operator : MS/MLC/ZM
Sample : AD00298-002
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 16:24:57 2017
Quant Method : G:\GCDATA\2017\GC_6\METHODQT\6G_P0919AA.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Tue Sep 19 10:00:32 2017
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	4.573	4.649	655862	332993	68.821	75.925
9)y-chlordane	8.192	7.960	113780	64009	10.220m	13.972m#
10)a-chlordane	8.262	8.167	163166	52418	15.158m	12.281m
12)p,p'-DDE	8.355	8.465	73918	42797	7.808m	9.523m
17)p,p'-DDT	9.525	9.551	64499	41584	13.087m	16.781m#
22)DCB-Surrogate	11.760	12.386	596473	431243	66.669m	93.101m#
24)Chlordane (Techni	8.192	7.960	113657	91398	91.300m	101.453m
25)Chlordane (Techni	8.262	8.167	163132	52503	84.663m	101.972m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2017\GC_6\Data\10-04-17\
Data File : 6G81158.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 4 Oct 2017 3:39
Operator : MS/MLC/ZM
Sample : AD00298-002
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 16:24:57 2017
Quant Method : G:\GCDATA\2017\GC_6\METHODQT\6G_P0919AA.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Tue Sep 19 10:00:32 2017
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

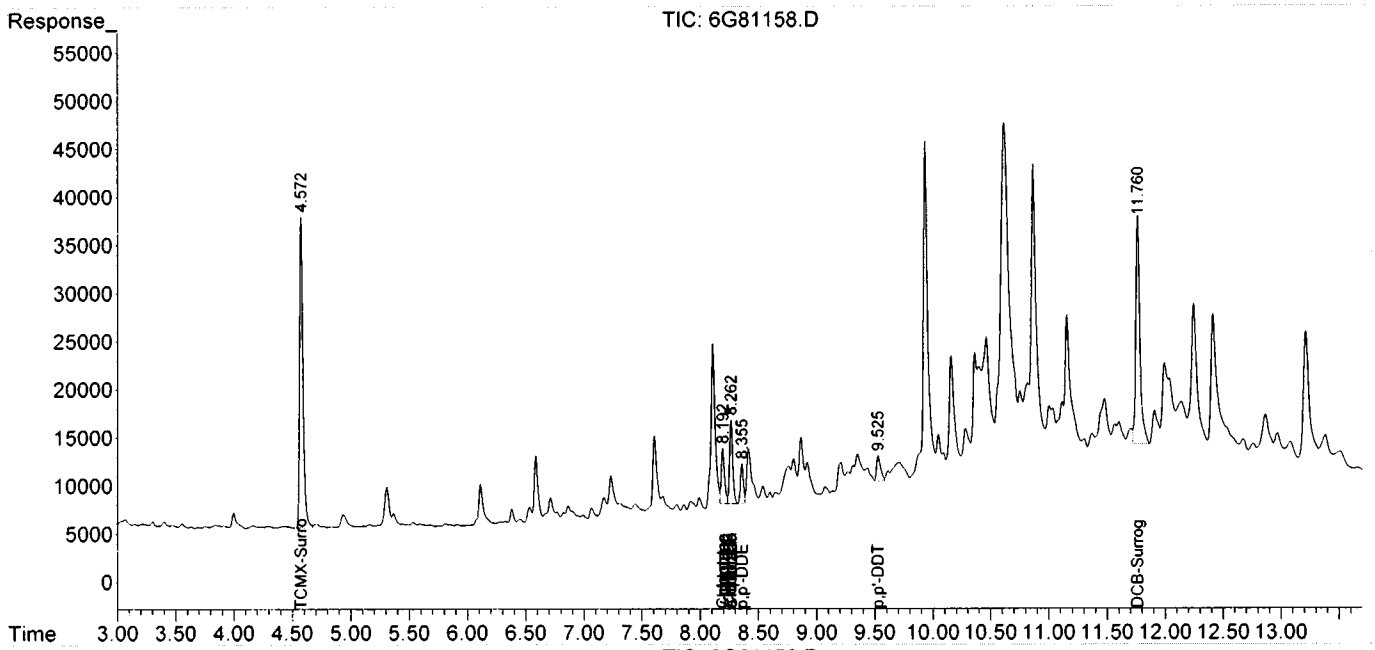

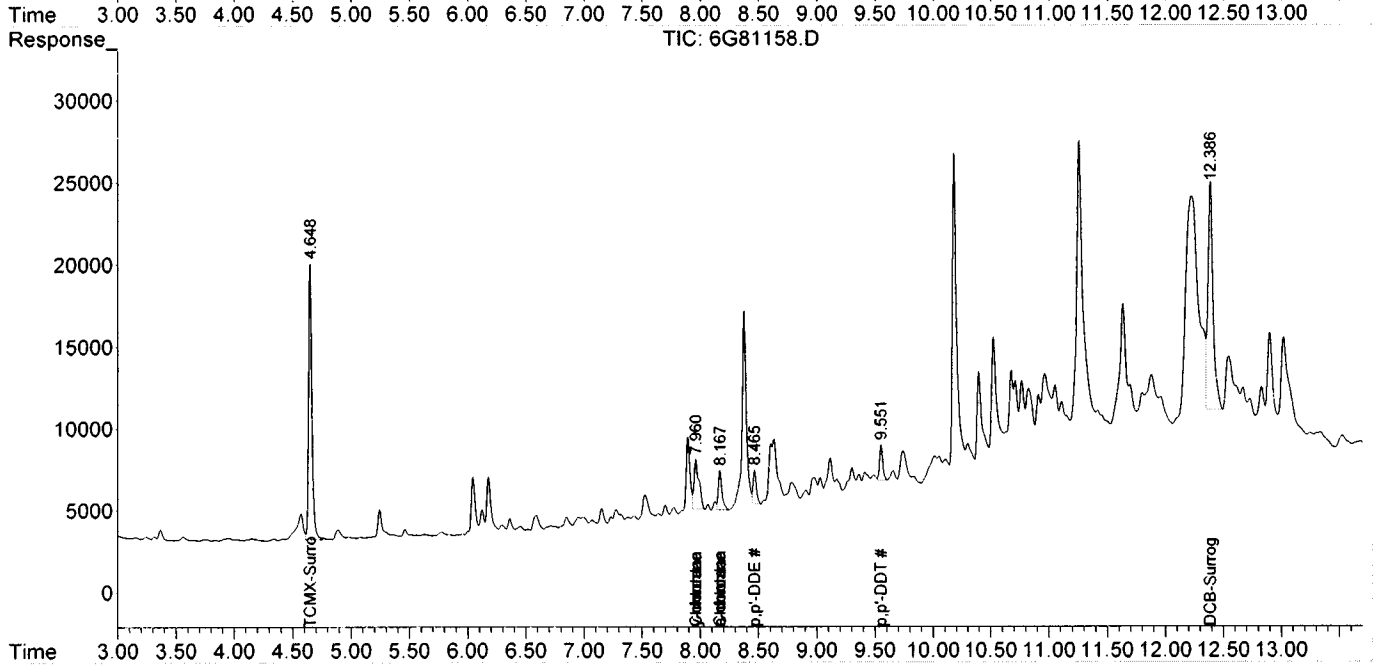

Form1

ORGANICS PESTICIDE REPORT

Sample Number: SMB63043
Client Id:
Data File: 6G81145.D
Analysis Date: 10/03/17 15:07
Date Rec/Extracted: NA-10/03/17
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.0050	U	7421-93-4	Endrin Aldehyde	0.0050	U
309-00-2	Aldrin	0.0050	U	53494-70-5	Endrin Ketone	0.0050	U
319-84-6	alpha-BHC	0.0010	U	58-89-9	gamma-BHC	0.0010	U
319-85-7	beta-BHC	0.0010	U	76-44-8	Heptachlor	0.0050	U
12789-03-6	Chlordane (Technical)	0.025	U	1024-57-3	Heptachlor Epoxide	0.0050	U
319-86-8	delta-BHC	0.0050	U	72-43-5	Methoxychlor	0.0050	U
60-57-1	Dieldrin	0.0010	U	72-54-8	p,p'-DDD	0.0025	U
959-98-8	Endosulfan I	0.0050	U	72-55-9	p,p'-DDE	0.0025	U
33213-65-9	Endosulfan II	0.0050	U	50-29-3	p,p'-DDT	0.0025	U
1031-07-8	Endosulfan Sulfate	0.0050	U	8001-35-2	Toxaphene	0.025	U
72-20-8	Endrin	0.0050	U	5103-74-2	y-chlordane	0.0050	U

Worksheet #: 439173 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2017\GC_6\Data\10-03-17\
Data File : 6G81145.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 3 Oct 2017 15:07
Operator : MS/MLC/ZM
Sample : SMB63043
Misc : S,PEST
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 03 17:06:12 2017
Quant Method : G:\GCDATA\2017\GC_6\METHODQT\6G_P0919AA.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Tue Sep 19 10:00:32 2017
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	4.567	4.643	857816	398337	91.022	90.824
22)DCB-Surrogate	11.758	12.384	814924	427625	92.341	92.278

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2017\GC_6\Data\10-03-17\
Data File : 6G81145.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 3 Oct 2017 15:07
Operator : MS/MLC/ZM
Sample : SMB63043
Misc : S,PEST
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 03 17:06:12 2017
Quant Method : G:\GCDATA\2017\GC_6\METHODQT\6G_P0919AA.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Tue Sep 19 10:00:32 2017
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

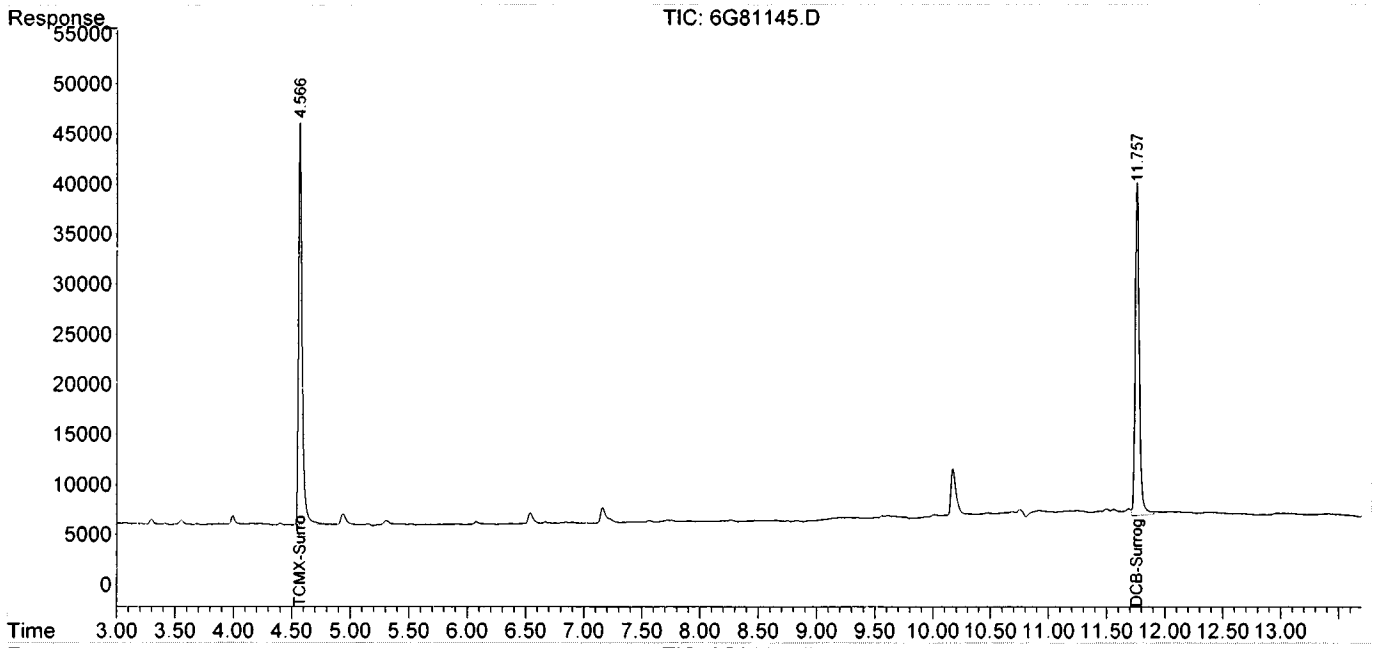

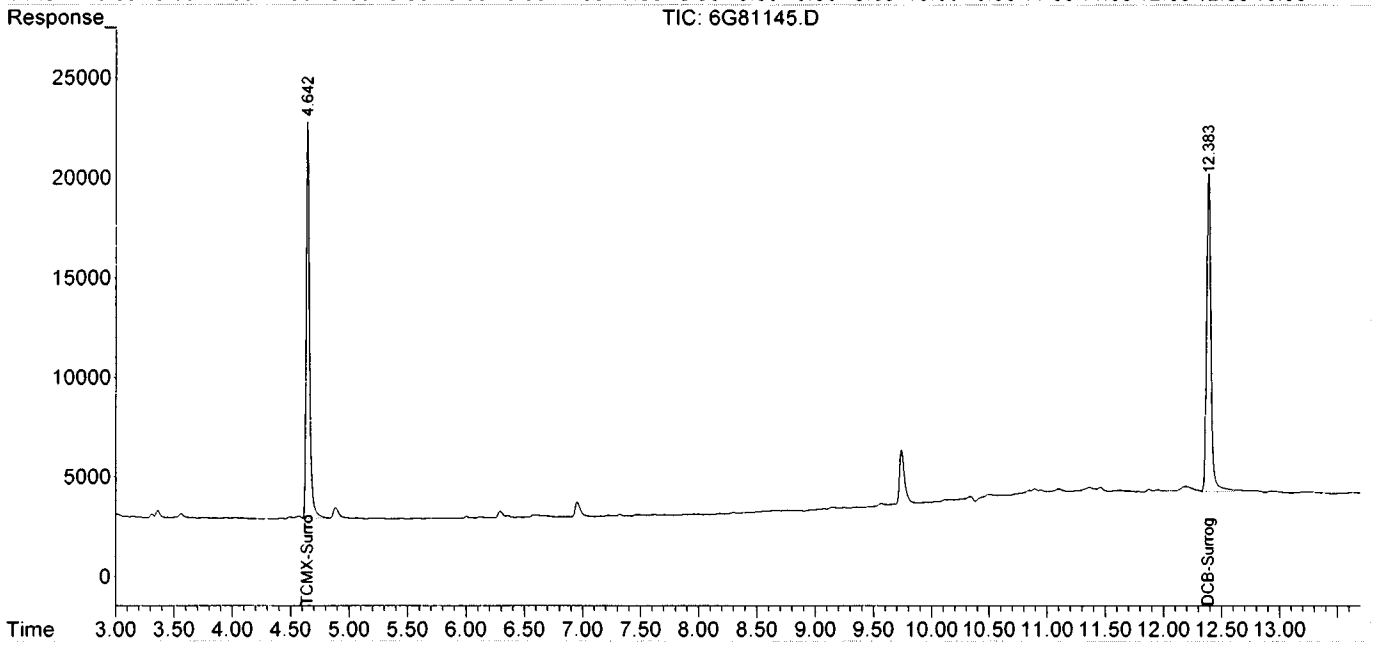

FORM2

Surrogate Recovery

Method: EPA 8081B

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column1 S3 Recov	Column2 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
6G81145.D	SMB63043	S	10/03/17 15:07	1		91	91	92	92		
6G81158.D	AD00298-002	S	10/04/17 03:39	1		69	76	67	93		
6G81144.D	SMB63043(MS)	S	10/03/17 14:49	1		92	94	95	90		
6G81153.D	AD00316-027(MS)	S	10/04/17 02:12	1		83	83	95	90		
6G81154.D	AD00316-027(MSD)	S	10/04/17 02:29	1		77	78	109	138		
6G81155.D	AD00316-027	S	10/04/17 02:47	1		88	92	87	119		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8081B

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	37-141
S2=TCMX-Surrogate	100	37-141
S3=DCB-Surrogate	100	33-146
S4=DCB-Surrogate	100	33-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63043

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G81144.D	SMB63043(MS)	10/3/2017 2:49:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	82.92	0	100	83	60	130
gamma-BHC	1	89.17	0	100	89	60	130
beta-BHC	1	91.58	0	100	92	60	130
Heptachlor	1	94.97	0	100	95	60	130
delta-BHC	1	84.68	0	100	85	60	130
Aldrin	1	89.25	0	100	89	70	130
Heptachlor Epoxide	1	87.3	0	100	87	70	130
y-chlordane	1	86.78	0	100	87	70	130
a-chlordane	1	86.26	0	100	86	70	130
Endosulfan I	1	83.71	0	100	84	70	130
p,p'-DDE	1	88.28	0	100	88	70	130
Dieldrin	1	88.7	0	100	89	70	130
Endrin	1	91.92	0	100	92	70	130
p,p'-DDD	1	80.84	0	100	81	70	130
Endosulfan II	1	83.43	0	100	83	70	130
p,p'-DDT	1	97.7	0	100	98	70	130
Endrin Aldehyde	1	60.82	0	100	61	10	130
Endosulfan Sulfate	1	89.84	0	100	90	70	130
Methoxychlor	1	108.13	0	100	108	60	130
Endrin Ketone	1	100.46	0	100	100	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63043

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G81153.D	AD00316-027(MS)	10/4/2017 2:12:00 AM
Non Spike(If applicable):	6G81155.D	AD00316-027	10/4/2017 2:47:00 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	73.84	0	100	74	60	130
gamma-BHC	1	72.57	0	100	73	60	130
beta-BHC	1	90.75	0	100	91	60	130
Heptachlor	1	81.29	0	100	81	60	130
delta-BHC	1	74	0	100	74	60	130
Aldrin	1	80.31	0	100	80	70	130
Heptachlor Epoxide	1	80.54	0	100	81	70	130
y-chlordane	1	103.45	0	100	103	70	130
a-chlordane	1	86.84	0	100	87	70	130
Endosulfan I	1	90.13	0	100	90	70	130
p,p'-DDE	1	227.33	150.3	100	77	70	130
Dieldrin	1	88.89	0	100	89	70	130
Endrin	1	153.2	0	100	153 *	70	130
p,p'-DDD	1	193.07	97.33	100	96	70	130
Endosulfan II	1	86.69	0	100	87	70	130
p,p'-DDT	1	237.69	140.64	100	97	70	130
Endrin Aldehyde	1	279.35	0	100	279 *	10	130
Endosulfan Sulfate	1	89.12	0	100	89	70	130
Methoxychlor	1	124.67	0	100	125	60	130
Endrin Ketone	1	108.85	0	100	109	70	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G81154.D	AD00316-027(MSD)	10/4/2017 2:29:00 AM
Non Spike(If applicable):	6G81155.D	AD00316-027	10/4/2017 2:47:00 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	66.47	0	100	66	60	130
gamma-BHC	1	64.85	0	100	65	60	130
beta-BHC	1	86.91	0	100	87	60	130
Heptachlor	1	78.02	0	100	78	60	130
delta-BHC	1	62.35	0	100	62	60	130
Aldrin	1	67.61	0	100	68 *	70	130
Heptachlor Epoxide	1	66.51	0	100	67 *	70	130
y-chlordane	1	81.65	0	100	82	70	130
a-chlordane	1	77.03	0	100	77	70	130
Endosulfan I	1	79.92	0	100	80	70	130
p,p'-DDE	1	209.88	150.3	100	60 *	70	130
Dieldrin	1	79.46	0	100	79	70	130
Endrin	1	170.78	0	100	171 *	70	130
p,p'-DDD	1	188.97	97.33	100	92	70	130
Endosulfan II	1	77.64	0	100	78	70	130
p,p'-DDT	1	203.75	140.64	100	63 *	70	130
Endrin Aldehyde	1	308.45	0	100	308 *	10	130
Endosulfan Sulfate	1	94.95	0	100	95	70	130
Methoxychlor	1	118.38	0	100	118	60	130
Endrin Ketone	1	133.31	0	100	133 *	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: SMB63043

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G81154.D	AD00316-027(MSD)	10/4/2017 2:29:00 AM
Duplicate(If applicable):	6G81153.D	AD00316-027(MS)	10/4/2017 2:12:00 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
alpha-BHC	1	66.47	73.84	11	40
gamma-BHC	1	64.85	72.57	11	40
beta-BHC	1	86.91	90.75	4.3	40
Heptachlor	1	78.02	81.29	4.1	40
delta-BHC	1	62.35	74	17	40
Aldrin	1	67.61	80.31	17	40
Heptachlor Epoxide	1	66.51	80.54	19	40
y-chlordane	1	81.65	103.45	24	40
a-chlordane	1	77.03	86.84	12	40
Endosulfan I	1	79.92	90.13	12	40
p,p'-DDE	1	209.88	227.33	8	40
Dieldrin	1	79.46	88.89	11	40
Endrin	1	170.78	153.2	11	40
p,p'-DDD	1	188.97	193.07	2.1	40
Endosulfan II	1	77.64	86.69	11	40
p,p'-DDT	1	203.75	237.69	15	40
Endrin Aldehyde	1	308.45	279.35	9.9	40
Endosulfan Sulfate	1	94.95	89.12	6.3	40
Methoxychlor	1	118.38	124.67	5.2	40
Endrin Ketone	1	133.31	108.85	20	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: SMB63043
Blank Data File: 6G81145.D
Matrix: Soil

Blank Analysis Date: 10/03/17 15:07
Blank Extraction Date: 10/03/17
(If Applicable)
Method: EPA 8081B

Sample Number	Data File	Analysis Date
AD00298-002	6G81158.D	10/04/17 03:39
AD00316-027	6G81155.D	10/04/17 02:47
AD00316-027(MSD	6G81154.D	10/04/17 02:29
AD00316-027(MS)	6G81153.D	10/04/17 02:12
SMB63043(MS)	6G81144.D	10/03/17 14:49

Form 5

Method: EPA 8081B

Instrument: GC_6 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
6G80609.D	CAL EVAL	09/18/17 22:31	Soil					
6G80610.D	EVAL	09/18/17 22:49	Soil					
6G80611.D	CAL PEST@100PPB	09/18/17 23:07	Soil	6G80613.	11.7612	0.0145	12.3903	0.0153
6G80612.D	CAL PEST@50PPB	09/18/17 23:24	Soil	6G80613.	11.7630	0.0008	12.3919	0.0024
6G80613.D	CAL PEST@2PPB	09/18/17 23:42	Soil	6G80613.	11.7629	0	12.3922	0
6G80614.D	2PPB	09/18/17 23:59	Soil	6G80613.	11.7643	0.0119	12.3932	0.0081
6G80615.D	CAL PEST@10PPB	09/19/17 00:17	Soil	6G80613.	11.7634	0.0042	12.3928	0.0048
6G80616.D	CAL PEST@200PPB	09/19/17 00:34	Soil	6G80613.	11.7621	0.0068	12.3904	0.0145
6G80617.D	CAL PEST@400PPB	09/19/17 00:52	Soil	6G80613.	11.7627	0.0017	12.3920	0.0016
6G80618.D	CAL CHLOR@100PPB	09/19/17 01:10	Soil	6G80613.	11.7634	0.0042	12.3925	0.0024
6G80619.D	CAL TOX@500PPB	09/19/17 01:27	Soil	6G80613.	11.7625	0.0034	12.3917	0.004
6G80620.D	ICV	09/19/17 01:45	Soil	6G80613.	11.7628	0.0009	12.3919	0.0024
6G80621.D	WMB62248(MS)	09/19/17 02:02	Aqueous	6G80613.	11.7637	0.0068	12.3930	0.0064
6G80622.D	WMB62248	09/19/17 02:20	Aqueous	6G80613.	11.7622	0.006	12.3923	0.0008
6G80623.D	AD00032-002(T)(MS)	09/19/17 02:38	Aqueous	6G80613.	11.7629	0	12.3917	0.004
6G80624.D	AD00032-002(T)(MSD)	09/19/17 02:55	Aqueous	6G80613.	11.7630	0.0008	12.3924	0.0016
6G80625.D	AD00052-003(T)(MS)	09/19/17 03:13	Aqueous	6G80613.	11.7623	0.0051	12.3914	0.0065
6G80626.D	AD00052-003(T)(MSD)	09/19/17 03:30	Aqueous	6G80613.	11.7637	0.0068	12.3924	0.0016
6G80627.D	AD00052-003(T)	09/19/17 03:48	Aqueous	6G80613.	11.7635	0.0051	12.3925	0.0024
6G80628.D	AD00021-001	09/19/17 04:06	Aqueous	6G80613.	11.7633	0.0034	12.3925	0.0024
6G80629.D	AC99991-002	09/19/17 04:23	Soil	6G80613.	11.7629	0	12.3913	0.0073
6G80630.D	AD00068-009	09/19/17 04:41	Soil	6G80613.	11.7624	0.0043	12.3922	0
6G80631.D	AD00044-001	09/19/17 04:58	Soil	6G80613.	11.7619	0.0085	12.3909	0.0105
6G80632.D	AD00009-001	09/19/17 05:16	Soil	6G80613.	11.7626	0.0026	12.3927	0.004
6G80633.D	AD00009-003	09/19/17 05:33	Soil	6G80613.	11.7629	0	12.3903	0.0153
6G80634.D	AD00068-006	09/19/17 05:51	Soil	6G80613.	11.7622	0.006	12.3919	0.0024
6G80635.D	AD00068-007	09/19/17 06:09	Soil	6G80613.	11.7628	0.0009	12.3911	0.0089
6G80636.D	AD00071-001	09/19/17 06:26	Soil	6G80613.	11.7632	0.0025	12.3923	0.0008
6G80637.D	AD00009-005(5X)	09/19/17 06:44	Soil	6G80613.	11.7640	0.0093	12.3902	0.0161
6G80638.D	CAL EVAL	09/19/17 10:01	Soil					
6G80639.D	CAL PEST@100PPB	09/19/17 10:19	Soil	6G80613.	11.7640	0.0093	12.3918	0.0032
6G80640.D	AC99876-005	09/19/17 10:39	Aqueous	6G80639.	11.7654	0.0119	12.3926	0.0065
6G80641.D	AC99876-006	09/19/17 10:56	Aqueous	6G80639.	11.7647	0.006	12.3928	0.0081
6G80642.D	62244(MS)	09/19/17 11:14	Soil	6G80639.	11.7647	0.006	12.3935	0.0137
6G80643.D	62262(MS)	09/19/17 16:04	Aqueous	6G80639.	11.7686	0.0391	12.3915	0.0024
6G80644.D	WMB62262	09/19/17 16:22	Aqueous	6G80639.	11.7648	0.0068	12.3914	0.0032
6G80645.D	CAL PEST@200PPB	09/19/17 16:39	Aqueous	6G80639.	11.7647	0.006	12.3919	0.0008

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B

Instrument: GC_6 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
6G81112.D	CAL EVAL	10/03/17 01:01	Soil					
6G81113.D	EVAL	10/03/17 01:19	Soil					
6G81114.D	CAL PEST@100PPB	10/03/17 01:36	Soil	6G81114.	11.7562	0	12.3824	0
6G81115.D	200PPB	10/03/17 01:54	Soil	6G81114.	11.7570	0.0068	12.3827	0.0024
6G81116.D	SMB63038(MS)	10/03/17 02:12	Soil	6G81114.	11.7571	0.0077	12.3839	0.0121
6G81117.D	SMB63039(MS)	10/03/17 02:29	Soil	6G81114.	11.7584	0.0187	12.3843	0.0153
6G81118.D	SMB63038	10/03/17 02:47	Soil	6G81114.	11.7579	0.0145	12.3839	0.0121
6G81119.D	SMB63039	10/03/17 03:04	Soil	6G81114.	11.7574	0.0102	12.3831	0.0057
6G81120.D	AD00282-001	10/03/17 03:22	Soil	6G81114.	11.7578	0.0136	12.3837	0.0105
6G81121.D	AD00282-027	10/03/17 03:40	Soil	6G81114.	11.7586	0.0204	12.3841	0.0137
6G81122.D	AD00282-019	10/03/17 03:57	Soil	6G81114.	11.7582	0.017	12.3837	0.0105
6G81123.D	AD00282-023	10/03/17 04:15	Soil	6G81114.	11.7585	0.0196	12.3848	0.0194
6G81124.D	AD00282-025	10/03/17 04:32	Soil	6G81114.	11.7590	0.0238	12.3847	0.0186
6G81125.D	AD00282-029	10/03/17 04:50	Soil	6G81114.	11.7583	0.0179	12.3837	0.0105
6G81126.D	AD00283-045	10/03/17 05:07	Soil	6G81114.	11.7593	0.0264	12.3842	0.0145
6G81127.D	AD00283-017	10/03/17 05:25	Soil	6G81114.	11.7585	0.0196	12.3842	0.0145
6G81128.D	AD00283-019	10/03/17 05:43	Soil	6G81114.	11.7579	0.0145	12.3843	0.0153
6G81129.D	AD00283-021	10/03/17 06:00	Soil	6G81114.	11.7587	0.0213	12.3842	0.0145
6G81130.D	AD00283-037	10/03/17 06:18	Soil	6G81114.	11.7604	0.0357	12.3851	0.0218
6G81131.D	AD00283-003	10/03/17 06:35	Soil	6G81114.	11.7602	0.034	12.3795	0.0234
6G81132.D	AD00283-039	10/03/17 06:53	Soil	6G81114.	11.7589	0.023	12.3845	0.017
6G81133.D	AD00283-025	10/03/17 07:10	Soil	6G81114.	11.7582	0.017	12.3837	0.0105
6G81134.D	AD00283-043	10/03/17 07:28	Soil	6G81114.	11.7596	0.0289	12.3854	0.0242
6G81135.D	AD00283-001	10/03/17 07:45	Soil	6G81114.	11.7594	0.0272	12.3843	0.0153
6G81136.D	CAL EVAL	10/03/17 11:22	Soil					
6G81137.D	CAL PEST@100PPB	10/03/17 11:45	Soil	6G81114.	11.7588	0.0221	12.3823	0.0008
6G81138.D	271-001	10/03/17 12:14	Soil	6G81137.	11.7605	0.0145	12.3834	0.0089
6G81139.D	AD00271-001	10/03/17 12:52	Soil	6G81137.	11.7598	0.0085	12.3807	0.0129
6G81140.D	AD00283-033	10/03/17 13:09	Soil	6G81137.	11.7586	0.0017	12.3797	0.021
6G81141.D	AD00283-027	10/03/17 13:27	Soil	6G81137.	11.7580	0.0068	12.3767	0.0452
6G81142.D	AD00283-047	10/03/17 13:45	Soil	6G81137.	11.7576	0.0102	12.3822	0.0008
6G81143.D	AD00283-023	10/03/17 14:02	Soil	6G81137.	11.7582	0.0051	12.3763	0.0485
6G81144.D	SMB63043(MS)	10/03/17 14:49	Soil	6G81137.	11.7583	0.0042	12.3822	0.0008
6G81145.D	SMB63043	10/03/17 15:07	Soil	6G81137.	11.7579	0.0076	12.3836	0.0105
6G81146.D	WMB63054(MS)	10/03/17 15:39	Aqueous	6G81137.	11.7621	0.0281	12.3842	0.0153
6G81147.D	WMB63054	10/03/17 15:57	Aqueous	6G81137.	11.7576	0.0102	12.3824	0.0008
6G81148.D	CAL PEST@100PPB	10/03/17 16:14	Aqueous	6G81137.	11.7578	0.0085	12.3827	0.0032

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B

Instrument: GC_6 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
6G81149.D	CAL EVAL	10/04/17 01:01	Soil					
6G81150.D	EVAL	10/04/17 01:19	Soil					
6G81151.D	CAL PEST@100PPB	10/04/17 01:36	Soil	6G81151.	11.7586	0	12.3838	0
6G81152.D	200PPB	10/04/17 01:54	Soil	6G81151.	11.7576	0.0085	12.3833	0.004
6G81153.D	AD00316-027(MS)	10/04/17 02:12	Soil	6G81151.	11.7596	0.0085	12.3852	0.0113
6G81154.D	AD00316-027(MSD)	10/04/17 02:29	Soil	6G81151.	11.7604	0.0153	12.3846	0.0065
6G81155.D	AD00316-027	10/04/17 02:47	Soil	6G81151.	11.7591	0.0042	12.3837	0.0008
6G81156.D	AD00316-026	10/04/17 03:04	Soil	6G81151.	11.7588	0.0017	12.3832	0.0048
6G81157.D	AD00316-028	10/04/17 03:22	Soil	6G81151.	11.7599	0.0111	12.3875	0.0299
6G81158.D	AD00298-002	10/04/17 03:39	Soil	6G81151.	11.7604	0.0153	12.3855	0.0137
6G81159.D	AD00301-001	10/04/17 03:57	Soil	6G81151.	11.7604	0.0153	12.3864	0.021
6G81160.D	AD00301-002	10/04/17 04:15	Soil	6G81151.	11.7600	0.0119	12.3857	0.0153
6G81161.D	AD00301-003	10/04/17 04:32	Soil	6G81151.	11.7610	0.0204	12.3866	0.0226
6G81162.D	AD00301-004	10/04/17 04:50	Soil	6G81151.	11.7606	0.017	12.3865	0.0218
6G81163.D	AD00301-005	10/04/17 05:07	Soil	6G81151.	11.7616	0.0255	12.3868	0.0242
6G81164.D	AD00301-006	10/04/17 05:25	Soil	6G81151.	11.7600	0.0119	12.3866	0.0226
6G81165.D	AD00301-007	10/04/17 05:43	Soil	6G81151.	11.7613	0.023	12.3866	0.0226
6G81166.D	AD00301-008	10/04/17 06:00	Soil	6G81151.	11.7609	0.0196	12.3862	0.0194
6G81167.D	AD00301-009	10/04/17 06:18	Soil	6G81151.	11.7610	0.0204	12.3865	0.0218
6G81168.D	AD00301-010	10/04/17 06:35	Soil	6G81151.	11.7603	0.0145	12.3865	0.0218
6G81169.D	AD00301-011	10/04/17 06:53	Soil	6G81151.	11.7618	0.0272	12.3874	0.0291
6G81170.D	AD00301-012	10/04/17 07:10	Soil	6G81151.	11.7617	0.0264	12.3861	0.0186
6G81171.D	AD00301-013	10/04/17 07:28	Soil	6G81151.	11.7608	0.0187	12.3859	0.017
6G81172.D	AD00301-014	10/04/17 07:45	Soil	6G81151.	11.7607	0.0179	12.3864	0.021
6G81173.D	CAL EVAL	10/04/17 11:26	Soil					
6G81174.D	CAL PEST@200PPB	10/04/17 11:56	Soil	6G81151.	11.7642	0.0476	12.3869	0.025
6G81175.D	SMB63076(MS)	10/04/17 14:31	Soil	6G81174.	11.7667	0.0212	12.3860	0.0073
6G81176.D	SMB63076	10/04/17 14:49	Soil	6G81174.	11.7631	0.0094	12.3866	0.0024
6G81177.D	AD00370-001	10/04/17 15:06	Soil	6G81174.	11.7620	0.0187	12.3866	0.0024
6G81178.D	00265-004	10/04/17 15:24	Soil	6G81174.	11.7639	0.0026	12.3889	0.0161
6G81179.D	00265-004	10/04/17 15:49	Soil	6G81174.	11.7668	0.0221	12.3885	0.0129
6G81180.D	WMB63065(MS)	10/04/17 16:27	Aqueous	6G81174.	11.7613	0.0247	12.3854	0.0121
6G81181.D	WMB63065	10/04/17 16:45	Aqueous	6G81174.	11.7616	0.0221	12.3851	0.0145
6G81182.D	CAL PEST@200PPB	10/04/17 17:03	Aqueous	6G81174.	11.7609	0.0281	12.3857	0.0097
6G81183.D	AD00316-028(5X)	10/04/17 17:24	Soil	6G81182.	11.7625	0.0136	12.3865	0.0065
6G81184.D	CAL PEST@200PPB	10/04/17 17:42	Soil	6G81182.	11.7622	0.0111	12.3858	0.0008

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6G80613.D	CAL PEST@2PPB	09/18/17 23:42	2	6G80615.D	CAL PEST@10PPB	09/19/17 00:17
3	6G80612.D	CAL PEST@50PPB	09/18/17 23:24	4	6G80611.D	CAL PEST@100PPB	09/18/17 23:07
5	6G80616.D	CAL PEST@200PPB	09/19/17 00:34	6	6G80617.D	CAL PEST@400PPB	09/19/17 00:52
7	6G80618.D	CAL CHLOR@100PP	09/19/17 01:10	8	6G80619.D	CAL TOX@500PPB	09/19/17 01:27

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	Qua	1.0717	1.0307	0.9473	0.9881	0.8731	0.7968	----	----	0.951	4.57	0.996	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	1	0	Qua	0.9646	1.0296	1.1336	1.3060	1.1956	1.1507	----	----	1.13	5.76	0.998	0.999	11	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	1	0	Avg	0.9570	1.0238	1.0872	1.2251	1.1097	1.0575	----	----	1.08	6.29	0.998	0.999	8.4	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	1	0	Qua	0.7591	0.7220	0.6490	0.6904	0.5902	0.5410	----	----	0.659	7.20	0.995	0.999	12	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	1	0	Avg	1.0502	0.9553	0.8626	0.9361	0.8362	0.7902	----	----	0.905	6.58	0.998	0.999	10	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	1	0	Avg	0.9026	0.9140	0.9939	1.1455	1.0424	1.0014	----	----	1.00	7.53	0.998	0.999	8.9	2.00	10.00	50.00	100.0	200.0	400.0		
Aldrin	1	0	Avg	0.9762	0.9782	1.0188	1.1508	1.0329	0.9834	----	----	1.02	6.95	0.998	0.999	6.5	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	1	0	Avg	1.0386	1.0260	0.9756	1.0620	0.9328	0.8742	----	----	0.985	7.79	0.997	0.999	7.3	2.00	10.00	50.00	100.0	200.0	400.0		
γ-chlordane	1	0	Avg	1.1277	1.0916	1.0792	1.2141	1.1128	1.0544	----	----	1.11	8.20	0.998	1.00	5.0	2.00	10.00	50.00	100.0	200.0	400.0		
α-chlordane	1	0	Avg	1.1259	1.0927	1.0616	1.1655	1.0316	0.9809	----	----	1.08	8.27	0.998	0.999	6.2	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	1	0	Avg	0.8950	0.8657	0.8374	0.9021	0.7700	0.7036	----	----	0.829	8.15	0.994	0.999	9.4	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	1	0	Avg	0.8804	0.8858	0.9444	1.0756	0.9651	0.9286	----	----	0.947	8.36	0.998	0.999	7.5	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	1	0	Avg	0.9196	0.9000	0.9126	1.0284	0.9155	0.8675	----	----	0.924	8.60	0.997	0.999	5.9	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	1	0	Avg	0.8929	0.8222	0.8279	0.9328	0.8111	0.7465	----	----	0.839	8.86	0.995	0.999	7.8	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	1	0	Avg	0.9029	0.8420	0.7984	0.8736	0.7780	0.7352	----	----	0.822	9.32	0.998	0.999	7.6	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	1	0	Avg	0.9250	0.9060	0.8736	0.9465	0.8414	0.7901	----	----	0.880	9.43	0.997	0.999	6.6	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	1	0	Qua	0.1493	0.3229	0.4390	0.5266	0.4869	0.4932	----	----	0.403	9.53	0.999	0.999	36	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	1	0	Avg	0.7530	0.7892	0.7074	0.7454	0.6656	0.6328	----	----	0.716	9.92	0.998	0.999	8.2	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	1	0	Avg	0.7290	0.7195	0.6973	0.7494	0.7047	0.6713	----	----	0.712	10.29	0.999	1.00	3.8	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	1	0	Qua	0.2174	0.2951	0.3111	0.3344	0.3081	0.2870	----	----	0.292	10.23	0.997	1.00	14	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	1	0	Avg	0.6660	0.7272	0.7355	0.8256	0.7480	0.7133	----	----	0.736	10.80	0.998	0.999	7.1	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	1	0	Qua	1.2160	1.1141	0.9296	0.9481	0.8015	0.7393	----	----	0.958	11.76	0.995	0.999	19	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	1	1	Avg	----	----	----	----	----	----	----	----	0.0520	6.58	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	2	Avg	----	----	----	----	----	----	----	----	0.124	8.20	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	3	Avg	----	----	----	----	----	----	----	----	0.193	8.27	-1	-1	Lvl=7	100.0							
Toxaphene	1	1	Avg	----	----	----	----	----	----	----	----	0.0147	8.99	-1	-1	Lvl=8	500.0							
Toxaphene	1	2	Avg	----	----	----	----	----	----	----	----	0.00783	9.12	-1	-1	Lvl=8	500.0							
Toxaphene	1	3	Avg	----	----	----	----	----	----	----	----	0.0161	9.46	-1	-1	Lvl=8	500.0							
Toxaphene	1	4	Avg	----	----	----	----	----	----	----	----	0.0147	9.79	-1	-1	Lvl=8	500.0							
Toxaphene	1	5	Avg	----	----	----	----	----	----	----	----	0.0233	10.25	-1	-1	Lvl=8	500.0							
TCMX-Surrogate	2	0	Avg	0.4748	0.4379	0.4283	0.4730	0.4199	0.3973	----	----	0.439	4.65	0.997	0.999	7.0	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	2	0	Qua	0.3897	0.4116	0.4951	0.6121	0.5745	0.5712	----	----	0.509	5.59	0.999	0.999	18	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	2	0	Qua	0.3947	0.4140	0.4800	0.5760	0.5289	0.5178	----	----	0.485	6.13	0.999	0.999	14	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	2	0	Avg	0.3249	0.3138	0.3046	0.3331	0.2903	0.2716	----	----	0.306	6.21	0.996	0.999	7.4	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	2	0	Avg	0.4088	0.3812	0.3777	0.4356	0.3940	0.3908	----	----	0.398	6.57	0.999	0.999	5.4	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	2	0	Qua	0.3813	0.3896	0.4564	0.5622	0.5185	0.5107	----	----	0.470	6.71	0.999	0.999	16	2.00	10.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 9.94 Avg Rsd Col 2: 10.04

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

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Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6G80613.D	CAL PEST@2PPB	09/18/17 23:42	2	6G80615.D	CAL PEST@10PPB	09/19/17 00:17
3	6G80612.D	CAL PEST@50PPB	09/18/17 23:24	4	6G80611.D	CAL PEST@100PPB	09/18/17 23:07
5	6G80616.D	CAL PEST@200PPB	09/19/17 00:34	6	6G80617.D	CAL PEST@400PPB	09/19/17 00:52
7	6G80618.D	CAL CHLOR@100PP	09/19/17 01:10	8	6G80619.D	CAL TOX@500PPB	09/19/17 01:27

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aldrin	2	0	Avg	0.4051	0.4012	0.4311	0.5162	0.4785	0.4726	----	----	0.451	7.02	0.999	0.999	10	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	2	0	Avg	0.4289	0.4009	0.4060	0.4715	0.4246	0.4156	----	----	0.425	7.75	0.999	0.999	6.0	2.00	10.00	50.00	100.0	200.0	400.0		
v-chlordane	2	0	Avg	0.4773	0.4193	0.4306	0.5041	0.4605	0.4568	----	----	0.458	7.96	0.999	0.999	6.7	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	2	0	Avg	0.4157	0.3994	0.4149	0.4809	0.4323	0.4174	----	----	0.427	8.17	0.998	0.999	6.7	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	2	0	Avg	0.4488	0.4212	0.4166	0.4847	0.4454	0.4465	----	----	0.444	8.22	0.999	0.999	5.5	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	2	0	Qua	0.3730	0.3632	0.3950	0.4756	0.4386	0.4372	----	----	0.414	8.47	0.999	0.999	11	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	2	0	Avg	0.3782	0.3771	0.3876	0.4646	0.4261	0.4237	----	----	0.410	8.61	0.999	0.999	8.5	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	2	0	Avg	0.3407	0.3244	0.3411	0.4044	0.3617	0.3499	----	----	0.354	9.08	0.998	0.999	7.8	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	2	0	Avg	0.3437	0.3304	0.3350	0.3900	0.3527	0.3459	----	----	0.350	9.17	0.998	0.998	6.1	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	2	0	Avg	0.4618	0.4042	0.3908	0.4480	0.4046	0.3918	----	----	0.417	9.31	0.999	0.999	7.3	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	2	0	Qua	0.1497	0.1808	0.2180	0.2706	0.2480	0.2572	----	----	0.221	9.56	0.999	0.999	21	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	2	0	Qua	0.4379	0.3725	0.3436	0.3800	0.3359	0.3192	----	----	0.365	9.71	0.998	0.999	12	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	2	0	Avg	0.3742	0.3378	0.3192	0.3692	0.3279	0.3158	----	----	0.341	9.86	0.998	0.999	7.4	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	2	0	Qua	0.1177	0.1361	0.1471	0.1683	0.1472	0.1396	----	----	0.143	10.62	0.997	0.999	12	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	2	0	Avg	0.4180	0.3899	0.4013	0.4644	0.4120	0.3965	----	----	0.414	10.84	0.998	0.999	6.5	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	2	0	Qua	0.6412	0.5778	0.4745	0.5040	0.4195	0.3865	----	----	0.501	12.39	0.994	0.998	19	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	2	1	Avg	----	----	----	----	----	----	----	----	0.0213	6.58	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	2	Avg	----	----	----	----	----	----	----	----	0.0901	7.97	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	3	Avg	----	----	----	----	----	----	----	----	0.0515	8.17	-1	-1	Lvl=7	100.0							
Toxaphene	2	1	Avg	----	----	----	----	----	----	----	----	0.00428	8.86	-1	-1	Lvl=8	500.0							
Toxaphene	2	2	Avg	----	----	----	----	----	----	----	----	0.00522	9.11	-1	-1	Lvl=8	500.0							
Toxaphene	2	3	Avg	----	----	----	----	----	----	----	----	0.00506	9.60	-1	-1	Lvl=8	500.0							
Toxaphene	2	4	Avg	----	----	----	----	----	----	----	----	0.00801	10.35	-1	-1	Lvl=8	500.0							
Toxaphene	2	5	Avg	----	----	----	----	----	----	----	----	0.00567	10.43	-1	-1	Lvl=8	500.0							

Avg Rsd Col 1: 9.94 Avg Rsd Col 2: 10.04

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

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Form7
Continuing Calibration

Method: EPA 8081B

Data File:				6G81137.D			6G81148.D			6G81151.D			6G81174.D										
Method:				8081			8081			8081			8081										
Calibration Name:				CAL PEST@100PP			CAL PEST@100PP			CAL PEST@100PP			CAL PEST@200PP										
Calibration Date/Time				10/03/17 11:45			10/03/17 16:14			10/04/17 01:36			10/04/17 11:56										
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
TCMX-Surrogate	20	1	0	103.6	100	3.6	105.5	100	5.5	99.58	100	0.4	197.8	200	1.1								
alpha-BHC	20	1	0	103.1	100	3.1	105.2	100	5.2	98.03	100	2.0	203.9	200	1.9								
gamma-BHC	20	1	0	111.8	100	11.8	114.2	100	14.2	106	100	6.0	212.2	200	6.1								
beta-BHC	20	1	0	105.4	100	5.4	104.4	100	4.4	101.0	100	1.0	197.8	200	1.1								
Heptachlor	20	1	0	105	100	5.0	108.5	100	8.5	92.25	100	7.8	198.3	200	0.9								
delta-BHC	20	1	0	112.4	100	12.4	115.5	100	15.5	104.7	100	4.7	212.5	200	6.2								
Aldrin	20	1	0	109	100	9.0	110.8	100	10.8	106	100	6.0	205.3	200	2.7								
Heptachlor Epoxide	20	1	0	105.9	100	5.9	107.4	100	7.4	102.7	100	2.7	193.6	200	3.2								
y-chlordane	20	1	0	107.7	100	7.7	109.3	100	9.3	104.3	100	4.3	200.8	200	0.4								
a-chlordane	20	1	0	106.4	100	6.4	107.3	100	7.3	102.9	100	2.8	193.1	200	3.4								
Endosulfan I	20	1	0	105.8	100	5.8	106	100	6.0	102.8	100	2.8	187	200	6.5								
p,p'-DDE	20	1	0	111.5	100	11.5	112.0	100	12.0	108.4	100	8.4	207.1	200	3.5								
Dieldrin	20	1	0	109.0	100	9.0	109.8	100	9.8	105.2	100	5.2	201	200	0.5								
Endrin	20	1	0	105.7	100	5.7	101.3	100	1.3	94.56	100	5.4	193.7	200	3.2								
p,p'-DDD	20	1	0	105.3	100	5.3	107.9	100	7.9	100.9	100	0.8	191.0	200	4.5								
Endosulfan II	20	1	0	106.3	100	6.3	107.2	100	7.2	102.7	100	2.7	192.3	200	3.9								
p,p'-DDT	20	1	0	114.1	100	14.1	106.3	100	6.3	93.33	100	6.7	211.6	200	5.8								
Endrin Aldehyde	20	1	0	100.6	100	0.6	101.7	100	1.7	97.34	100	2.7	182.1	200	8.9								
Endosulfan Sulfate	20	1	0	101.5	100	1.5	104.2	100	4.2	93.15	100	6.8	185.3	200	7.3								
Methoxychlor	20	1	0	107.6	100	7.6	102.1	100	2.1	85.19	100	14.8	202.7	200	1.3								
Endrin Ketone	20	1	0	119.5	100	19.5	122.3	100	22.3*	109.3	100	9.3	207.3	200	3.7								
DCB-Surrogate	20	1	0	112.1	100	12.1	108.5	100	8.5	105.6	100	5.6	193.5	200	3.3								
Average Difference	20	1	0			7.7			8.1			5.0			3.6								
TCMX-Surrogate	20	2	0	102.2	100	2.2	104.8	100	4.8	102.9	100	2.9	193	200	3.5								
alpha-BHC	20	2	0	99.22	100	0.8	100.9	100	0.9	99.04	100	1.0	199.5	200	0.3								
gamma-BHC	20	2	0	99.92	100	0.1	102.1	100	2.1	99.2	100	0.8	199.0	200	0.5								
beta-BHC	20	2	0	103.6	100	3.6	105.2	100	5.2	103.3	100	3.3	190.4	200	4.8								
Heptachlor	20	2	0	101.5	100	1.5	106	100	6.0	93.18	100	6.8	201.2	200	0.6								
delta-BHC	20	2	0	99.94	100	0.1	102.3	100	2.3	97.31	100	2.7	198.6	200	0.7								
Aldrin	20	2	0	107.8	100	7.8	108.7	100	8.7	108.9	100	8.9	210.5	200	5.3								
Heptachlor Epoxide	20	2	0	104.8	100	4.8	106	100	6.0	105.3	100	5.3	199.2	200	0.4								
y-chlordane	20	2	0	104.5	100	4.4	105.0	100	5.0	104.4	100	4.4	198.3	200	0.9								
a-chlordane	20	2	0	106.6	100	6.6	107.2	100	7.2	107.1	100	7.1	198.7	200	0.6								
Endosulfan I	20	2	0	103.5	100	3.5	104.6	100	4.6	103.4	100	3.4	199	200	0.5								
p,p'-DDE	20	2	0	101.2	100	1.2	102.3	100	2.3	100.8	100	0.8	196.8	200	1.6								
Dieldrin	20	2	0	106.8	100	6.8	107.4	100	7.4	106	100	6.0	205.0	200	2.5								
Endrin	20	2	0	104	100	3.9	99.27	100	0.7	94.81	100	5.2	199.1	200	0.5								
p,p'-DDD	20	2	0	106.3	100	6.3	110.7	100	10.7	101	100	1.0	201.9	200	0.9								
Endosulfan II	20	2	0	101.3	100	1.3	101.9	100	1.9	100.9	100	0.9	189.1	200	5.5								
p,p'-DDT	20	2	0	101.5	100	1.5	102.6	100	2.6	85.15	100	14.9	193.9	200	3.1								
Endrin Aldehyde	20	2	0	102.7	100	2.7	108.1	100	8.1	101.8	100	1.8	194.5	200	2.8								
Endosulfan Sulfate	20	2	0	99.92	100	0.1	102.7	100	2.7	95.04	100	5.0	184.3	200	7.8								
Methoxychlor	20	2	0	98.7	100	1.3	101.1	100	1.1	79.6	100	20.4	185.4	200	7.3								
Endrin Ketone	20	2	0	111.8	100	11.8	111.5	100	11.5	105.6	100	5.6	198.9	200	0.5								
DCB-Surrogate	20	2	0	107.3	100	7.3	109	100	9.0	104.5	100	4.5	196.4	200	1.8								
Average Difference	20	2	0			3.6			5.0			5.1			2.4								

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8081B

			Data File:		6G80613.D		6G81137.D		6G81151.D					
			Calibration Name:		CAL PEST@2PPB		CAL PEST@100PPB		CAL PEST@100PPB					
			Calibration Date/Time		9/18/2017 11:42:00 PM		10/3/2017 11:45:00 AM		10/4/2017 1:36:00 AM					
Compound	Col	Mr		Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
TCMX-Surrogate	1	0		4.57	(4.51 - 4.63)	4.57	(4.51 - 4.63)	4.57	(4.51 - 4.63)				
alpha-BHC	1	0		5.76	(5.72 - 5.80)	5.75	(5.71 - 5.79)	5.75	(5.71 - 5.79)				
gamma-BHC	1	0		6.29	(6.25 - 6.33)	6.28	(6.24 - 6.32)	6.28	(6.24 - 6.32)				
beta-BHC	1	0		7.20	(7.12 - 7.28)	7.19	(7.11 - 7.27)	7.19	(7.11 - 7.27)				
Heptachlor	1	0		6.58	(6.54 - 6.62)	6.58	(6.54 - 6.62)	6.58	(6.54 - 6.62)				
delta-BHC	1	0		7.53	(7.45 - 7.61)	7.52	(7.44 - 7.60)	7.52	(7.44 - 7.60)				
Aldrin	1	0		6.95	(6.87 - 7.03)	6.95	(6.87 - 7.03)	6.95	(6.87 - 7.03)				
Heptachlor Epoxide	1	0		7.79	(7.75 - 7.83)	7.79	(7.75 - 7.83)	7.79	(7.75 - 7.83)				
g-chlordane	1	0		8.20	(8.16 - 8.24)	8.19	(8.15 - 8.23)	8.19	(8.15 - 8.23)				
a-chlordane	1	0		8.26	(8.22 - 8.30)	8.26	(8.22 - 8.30)	8.26	(8.22 - 8.30)				
Endosulfan I	1	0		8.15	(8.11 - 8.19)	8.15	(8.11 - 8.19)	8.15	(8.11 - 8.19)				
p,p'-DDE	1	0		8.36	(8.28 - 8.44)	8.36	(8.28 - 8.44)	8.35	(8.27 - 8.43)				
Dieldrin	1	0		8.60	(8.52 - 8.68)	8.60	(8.52 - 8.68)	8.60	(8.52 - 8.68)				
Endrin	1	0		8.86	(8.82 - 8.90)	8.86	(8.82 - 8.90)	8.86	(8.82 - 8.90)				
p,p'-DDD	1	0		9.32	(9.24 - 9.40)	9.31	(9.23 - 9.39)	9.31	(9.23 - 9.39)				
Endosulfan II	1	0		9.43	(9.35 - 9.51)	9.42	(9.34 - 9.50)	9.42	(9.34 - 9.50)				
p,p'-DDT	1	0		9.53	(9.45 - 9.61)	9.52	(9.44 - 9.60)	9.52	(9.44 - 9.60)				
Endrin Aldehyde	1	0		9.92	(9.84 - 10.00)	9.91	(9.83 - 9.99)	9.91	(9.83 - 9.99)				
Endosulfan Sulfate	1	0		10.29	(10.25 - 10.33)	10.28	(10.24 - 10.32)	10.28	(10.24 - 10.32)				
Methoxychlor	1	0		10.23	(10.19 - 10.27)	10.22	(10.18 - 10.26)	10.22	(10.18 - 10.26)				
Endrin Ketone	1	0		10.80	(10.72 - 10.88)	10.79	(10.71 - 10.87)	10.79	(10.71 - 10.87)				
DCB-Surrogate	1	0		11.76	(11.70 - 11.82)	11.76	(11.70 - 11.82)	11.76	(11.70 - 11.82)				
Chlordane (Technical	1	1											
Chlordane (Technical	1	2											
Chlordane (Technical	1	3											
Toxaphene	1	1		8.99	(8.95 - 9.03)								
Toxaphene	1	2		9.12	(9.08 - 9.16)								
Toxaphene	1	3		9.46	(9.42 - 9.50)								
Toxaphene	1	4		9.79	(9.75 - 9.83)								
Toxaphene	1	5		10.25	(10.21 - 10.29)								
TCMX-Surrogate	2	0		4.65	(4.59 - 4.71)	4.64	(4.58 - 4.70)	4.64	(4.58 - 4.70)				
alpha-BHC	2	0		5.59	(5.55 - 5.63)	5.58	(5.54 - 5.62)	5.59	(5.55 - 5.63)				
gamma-BHC	2	0		6.13	(6.09 - 6.17)	6.12	(6.08 - 6.16)	6.12	(6.08 - 6.16)				
beta-BHC	2	0		6.21	(6.13 - 6.29)	6.21	(6.13 - 6.29)	6.21	(6.13 - 6.29)				
Heptachlor	2	0		6.57	(6.53 - 6.61)	6.57	(6.53 - 6.61)	6.57	(6.53 - 6.61)				
delta-BHC	2	0		6.71	(6.63 - 6.79)	6.71	(6.63 - 6.79)	6.71	(6.63 - 6.79)				
Aldrin	2	0		7.02	(6.94 - 7.10)	7.02	(6.94 - 7.10)	7.02	(6.94 - 7.10)				
Heptachlor Epoxide	2	0		7.75	(7.71 - 7.79)	7.75	(7.71 - 7.79)	7.75	(7.71 - 7.79)				
g-chlordane	2	0		7.96	(7.92 - 8.00)	7.96	(7.92 - 8.00)	7.96	(7.92 - 8.00)				
a-chlordane	2	0		8.17	(8.13 - 8.21)	8.16	(8.12 - 8.20)	8.16	(8.12 - 8.20)				
Endosulfan I	2	0		8.22	(8.18 - 8.26)	8.21	(8.17 - 8.25)	8.21	(8.17 - 8.25)				
p,p'-DDE	2	0		8.47	(8.39 - 8.55)	8.46	(8.38 - 8.54)	8.46	(8.38 - 8.54)				
Dieldrin	2	0		8.61	(8.53 - 8.69)	8.61	(8.53 - 8.69)	8.61	(8.53 - 8.69)				
Endrin	2	0		9.08	(9.04 - 9.12)	9.08	(9.04 - 9.12)	9.08	(9.04 - 9.12)				
p,p'-DDD	2	0		9.17	(9.09 - 9.25)	9.17	(9.09 - 9.25)	9.17	(9.09 - 9.25)				
Endosulfan II	2	0		9.31	(9.23 - 9.39)	9.30	(9.22 - 9.38)	9.30	(9.22 - 9.38)				
p,p'-DDT	2	0		9.56	(9.48 - 9.64)	9.55	(9.47 - 9.63)	9.55	(9.47 - 9.63)				
Endrin Aldehyde	2	0		9.71	(9.63 - 9.79)	9.71	(9.63 - 9.79)	9.71	(9.63 - 9.79)				
Endosulfan Sulfate	2	0		9.86	(9.82 - 9.90)	9.86	(9.82 - 9.90)	9.86	(9.82 - 9.90)				
Methoxychlor	2	0		10.62	(10.58 - 10.66)	10.61	(10.57 - 10.65)	10.61	(10.57 - 10.65)				
Endrin Ketone	2	0		10.84	(10.76 - 10.92)	10.84	(10.76 - 10.92)	10.84	(10.76 - 10.92)				
DCB-Surrogate	2	0		12.39	(12.33 - 12.45)	12.38	(12.32 - 12.44)	12.38	(12.32 - 12.44)				
Chlordane (Technical	2	1											
Chlordane (Technical	2	2											
Chlordane (Technical	2	3											
Toxaphene	2	1		8.86	(8.82 - 8.90)								
Toxaphene	2	2		9.11	(9.07 - 9.15)								
Toxaphene	2	3		9.60	(9.56 - 9.64)								
Toxaphene	2	4		10.35	(10.31 - 10.39)								
Toxaphene	2	5		10.43	(10.39 - 10.47)								

Herbicide Data

Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD00298-002
Client Id: 475 EXTERIOR NYRECYC
Data File: 12G14889.D
Analysis Date: 10/04/17 16:37
Date Rec/Extracted: 09/28/17-10/03/17
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Soil
Initial Vol: 50g
Final Vol: 10ml
Dilution: 1
Solids: 92

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.011	U	93-72-1	Silvex	0.011	U
94-75-7	2,4-D	0.011	U				

Worksheet #: 439202

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2017\GC_12\Data\10-04-17\
Data File : 12G14889.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04-Oct-17, 16:37:34
Operator : MLC/MS/ZM
Sample : AD00298-002
Misc : S,HERB
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 17:29:19 2017
Quant Method : G:\GCDATA\2017\GC_12\METHODQT\12G_HERB928.M
Quant Title : @GC_12,ug,8151
QLast Update : Wed Oct 04 15:55:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
2)Dcaa-Surrogate	8.155	8.122	155.4E6	49533554	811.160m	786.244m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2017\GC_12\Data\10-04-17\
Data File : 12G14889.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04-Oct-17, 16:37:34
Operator : MLC/MS/ZM
Sample : AD00298-002
Misc : S,HERB
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 17:29:19 2017
Quant Method : G:\GCDATA\2017\GC_12\METHODQT\12G_HERB928.M
Quant Title : @GC_12,ug,8151
QLast Update : Wed Oct 04 15:55:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

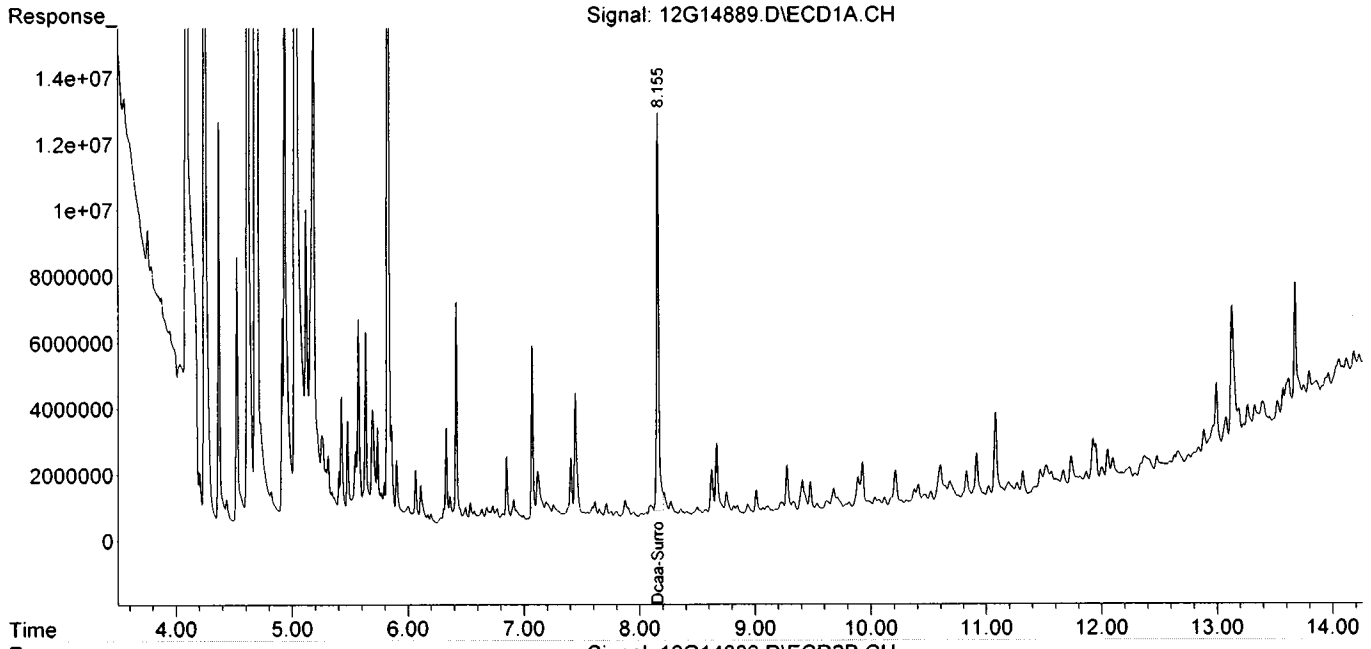

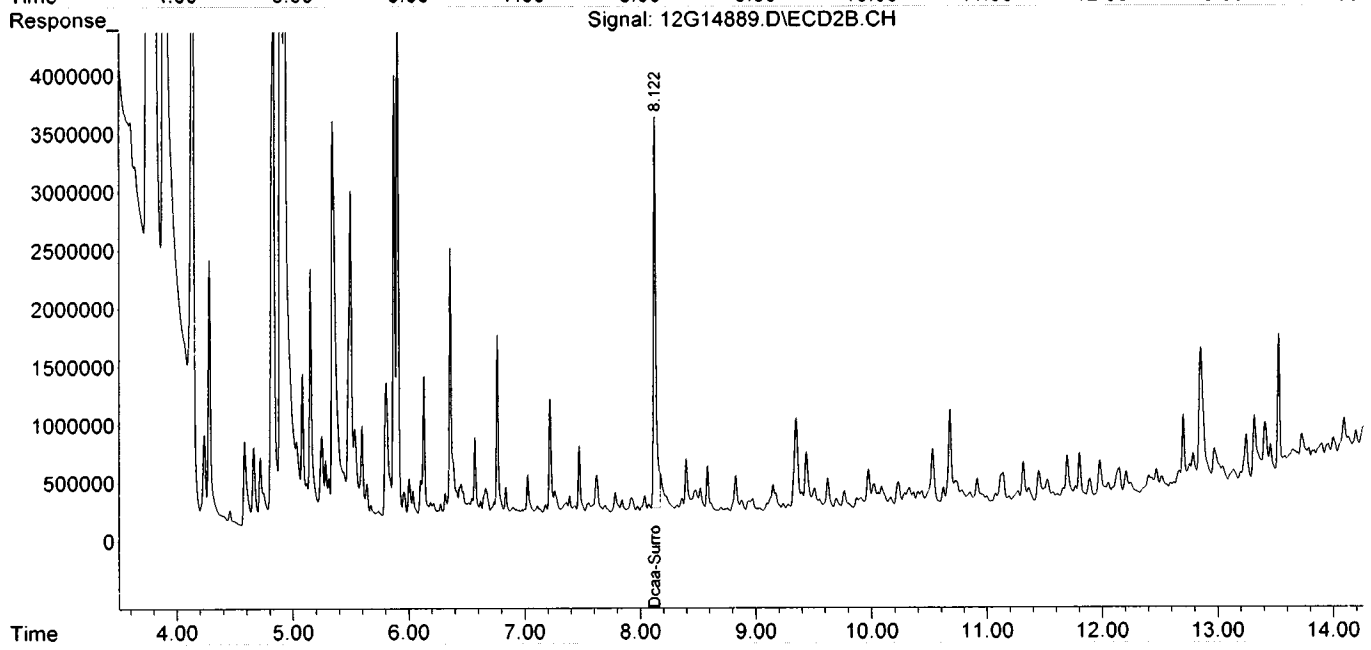

Form1

ORGANICS HERBICIDE REPORT

Sample Number: SMB63053
Client Id:
Data File: 12G14890.D
Analysis Date: 10/04/17 16:56
Date Rec/Extracted: NA-10/03/17
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Soil
Initial Vol: 50g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.010	U	93-72-1	Silvex	0.010	U
94-75-7	2,4-D	0.010	U				

Worksheet #: 439202 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2017\GC_12\Data\10-04-17\
Data File : 12G14890.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04-Oct-17, 16:56:54
Operator : MLC/MS/ZM
Sample : SMB63053
Misc : S,HERB
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 17:32:43 2017
Quant Method : G:\GCDATA\2017\GC_12\METHODQT\12G_HERB928.M
Quant Title : @GC_12,ug,8151
QLast Update : Wed Oct 04 15:55:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
2)Dcaa-Surrogate	8.156	8.124	125.0E6	40709721	652.584m	646.184m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2017\GC_12\Data\10-04-17\
Data File : 12G14890.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04-Oct-17, 16:56:54
Operator : MLC/MS/ZM
Sample : SMB63053
Misc : S,HERB
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 04 17:32:43 2017
Quant Method : G:\GCDATA\2017\GC_12\METHODQT\12G_HERB928.M
Quant Title : @GC_12,ug,8151
QLast Update : Wed Oct 04 15:55:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

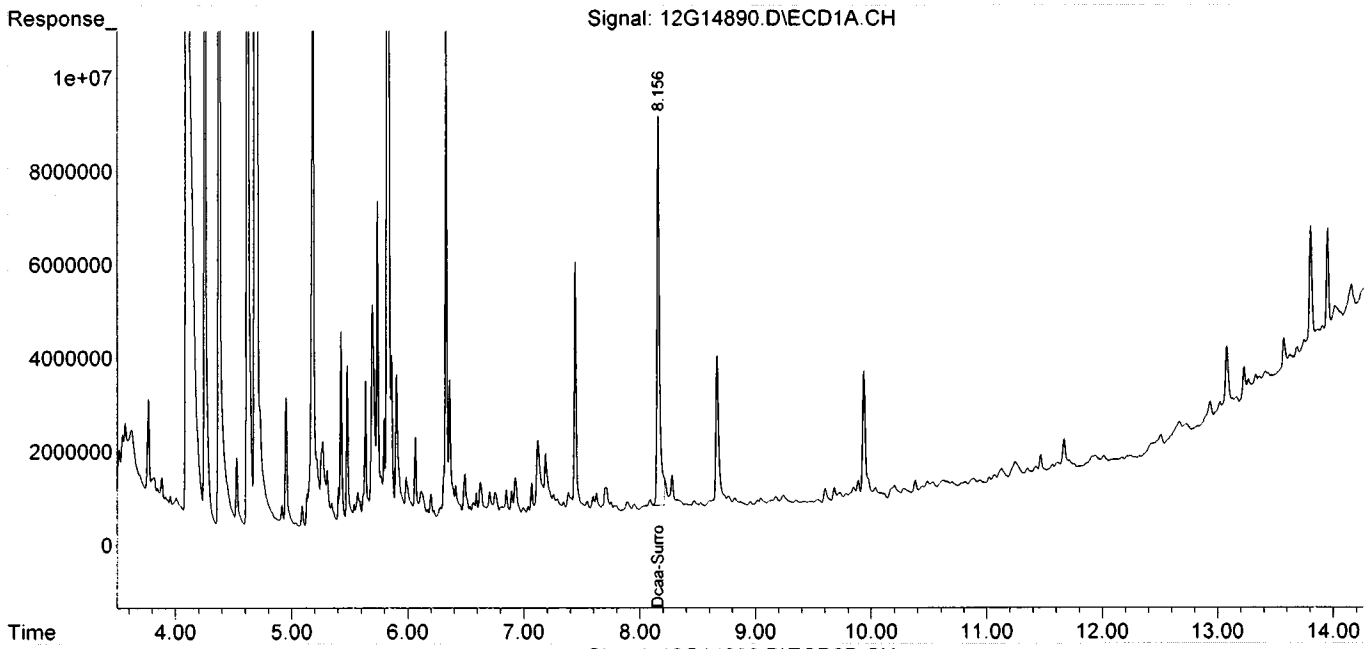

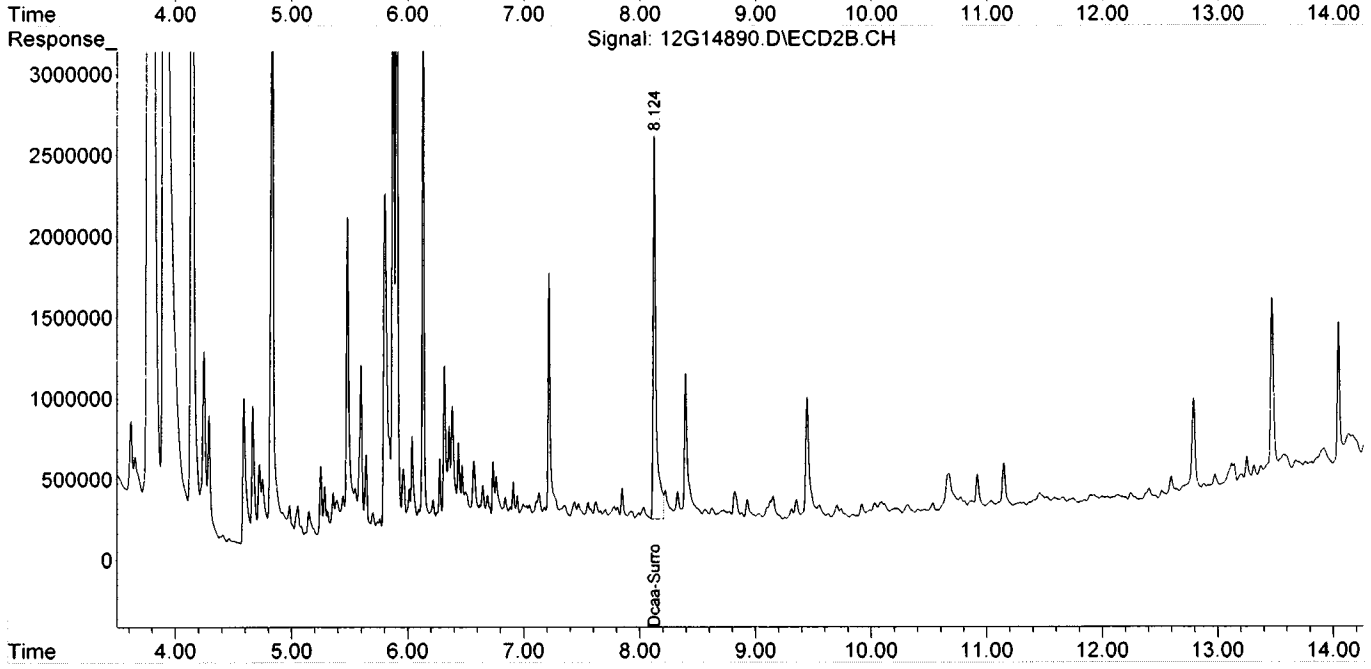

FORM2

Surrogate Recovery

Method: EPA 8151A

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
12G14890.D	SMB63053	S	10/04/17 16:56	1		65	65				
12G14889.D	AD00298-002	S	10/04/17 16:37	1		81	79				
12G14900.D	SMB63053(MS)	S	10/04/17 21:49	1		76	82				
12G14906.D	AD00356-001(MS)	S	10/04/17 23:46	1		85	104				
12G14907.D	AD00356-001(MSD)	S	10/05/17 00:05	1		78	87				
12G14908.D	AD00356-001	S	10/05/17 00:25	1		59	62				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8151A

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dcaa-Surrogate	1000	25-138
S2=Dcaa-Surrogate	1000	25-138

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63053

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G14900.D	SMB63053(MS)	10/4/2017 9:49:20 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	244.77	0	400	61	25	130
2,4-D	1	222.59	0	400	56	10	130
Silvex	1	269.2	0	400	67	25	130
2,4,5-T	1	228.5	0	400	57	25	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB63053

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G14906.D	AD00356-001(MS)	10/4/2017 11:46:08 PM
Non Spike(If applicable):	12G14908.D	AD00356-001	10/5/2017 12:25:06 AM
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	260.27	0	400	65	25	130
2,4-D	1	279.55	0	400	70	10	130
Silvex	1	301.24	0	400	75	25	130
2,4,5-T	1	298.53	0	400	75	25	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G14907.D	AD00356-001(MSD)	10/5/2017 12:05:38 AM
Non Spike(If applicable):	12G14908.D	AD00356-001	10/5/2017 12:25:06 AM
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	234.75	0	400	59	25	130
2,4-D	1	258.86	0	400	65	10	130
Silvex	1	270.22	0	400	68	25	130
2,4,5-T	1	259.59	0	400	65	25	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: SMB63053

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G14907.D	AD00356-001(MSD)	10/5/2017 12:05:38 AM
Duplicate(If applicable):	12G14906.D	AD00356-001(MS)	10/4/2017 11:46:08 PM
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Dicamba	1	234.75	260.27	10	40
2,4-D	1	258.86	279.55	7.7	40
Silvex	1	270.22	301.24	11	40
2,4,5-T	1	259.59	298.53	14	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: SMB63053
Blank Data File: 12G14890.D
Matrix: Soil

Blank Analysis Date: 10/04/17 16:56
Blank Extraction Date: 10/03/17
(If Applicable)
Method: EPA 8151A

Sample Number	Data File	Analysis Date
AD00298-002	12G14889.D	10/04/17 16:37
AD00356-001	12G14908.D	10/05/17 00:25
AD00356-001(MSD	12G14907.D	10/05/17 00:05
AD00356-001(MS)	12G14906.D	10/04/17 23:46
SMB63053(MS)	12G14900.D	10/04/17 21:49

Form 5

Method: EPA 8151A

Instrument: GC_12 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
12G14825.D	CAL HERB@50PPB	09/28/17 11:05	Soil	12G1482	8.2239	0	8.1908	0
12G14826.D	CAL HERB@100PPB	09/28/17 11:24	Soil	12G1482	8.2017	0.2703	8.1658	0.3057
12G14827.D	CAL HERB@200PPB	09/28/17 11:44	Soil	12G1482	8.1804	0.5303	8.1447	0.5644
12G14828.D	CAL HERB@400PPB	09/28/17 12:03	Soil	12G1482	8.1684	0.6771	8.1348	0.686
12G14829.D	CAL HERB@500PPB	09/28/17 12:22	Soil	12G1482	8.1660	0.7065	8.1319	0.7217
12G14830.D	CAL HERB@600PPB	09/28/17 12:42	Soil	12G1482	8.1623	0.7518	8.1293	0.7537
12G14831.D	ICV	09/28/17 13:01	Soil	12G1482	8.1960	0.3398	8.1599	0.378
12G14832.D	TEST	09/28/17 13:30	Soil	12G1482	8.1582	0.8021	8.1953	0.0549
12G14833.D	WMB63020	09/28/17 13:49	Aqueous	12G1482	8.1738	0.6111	8.1355	0.6774
12G14834.D	WMB63020(MS)	09/28/17 14:09	Aqueous	12G1482	8.1541	0.8524	8.1262	0.7918
12G14835.D	AD00197-006(T)(MS)	09/28/17 14:28	Aqueous	12G1482	8.1535	0.8597	8.1263	0.7906
12G14836.D	AD00197-006(T)(MSD)	09/28/17 14:48	Aqueous	12G1482	8.1536	0.8585	8.1265	0.7881
12G14837.D	MB	09/28/17 15:07	Aqueous	12G1482	8.2609	0.4489	8.1800	0.1319
12G14838.D	AD00197-006(T)	09/28/17 15:27	Aqueous	12G1482	8.1707	0.649	8.1348	0.686
12G14839.D	AD00263-001(T)	09/28/17 15:46	Aqueous	12G1482	8.1758	0.5866	8.1374	0.6541
12G14840.D	AD00263-002(T)	09/28/17 16:06	Aqueous	12G1482	8.1742	0.6062	8.1363	0.6676
12G14841.D	EF-1-V-263495(9/26)	09/28/17 16:25	Aqueous	12G1482	8.1830	0.4986	8.1431	0.5841
12G14842.D	SMB62335	09/28/17 16:55	Soil	12G1482	8.1555	0.8352	8.1263	0.7906
12G14843.D	CAL HERB@200PPB	09/28/17 17:15	Aqueous	12G1482	8.1778	0.5621	8.1426	0.5902

Drift Compound: Dcaa-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8151A

Instrument: GC_12 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
12G14887.D	400PPB	10/04/17 14:07	Aqueous					
12G14888.D	CAL HERB@200PPB	10/04/17 14:27	Aqueous	12G1488	8.1800	0	8.1461	0
12G14889.D	AD00298-002	10/04/17 16:37	Soil	12G1488	8.1550	0.3061	8.1217	0.3
12G14890.D	SMB63053	10/04/17 16:56	Soil	12G1488	8.1556	0.2987	8.1243	0.268
12G14891.D	CAL HERB@400PPB	10/04/17 17:16	Soil	12G1488	8.1595	0.2509	8.1290	0.2101

Drift Compound: Dcaa-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8151A
Instrument: GC_12 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
12G14892.D	CAL HERB@50PPB	10/04/17 19:13	Soil	12G1489	8.2341	0	8.1991	0
12G14893.D	50PPB	10/04/17 19:33	Soil	12G1489	8.2341	0	8.1962	0.0354
12G14894.D	CAL HERB@100PPB	10/04/17 19:52	Soil	12G1489	8.2076	0.3224	8.1730	0.3188
12G14895.D	CAL HERB@200PPB	10/04/17 20:11	Soil	12G1489	8.1803	0.6555	8.1457	0.6534
12G14896.D	CAL HERB@400PPB	10/04/17 20:31	Soil	12G1489	8.1610	0.8917	8.1304	0.8414
12G14897.D	CAL HERB@500PPB	10/04/17 20:50	Soil	12G1489	8.1597	0.9077	8.1290	0.8586
12G14898.D	CAL HERB@600PPB	10/04/17 21:10	Soil	12G1489	8.1545	0.9714	8.1248	0.9103
12G14899.D	ICV	10/04/17 21:29	Soil	12G1489	8.2032	0.376	8.1783	0.254
12G14900.D	SMB63053(MS)	10/04/17 21:49	Soil	12G1489	8.1459	1.0769	8.1215	0.9509
12G14901.D	WMB63062	10/04/17 22:08	Aqueous	12G1489	8.1689	0.795	8.1332	0.807
12G14902.D	WMB63062(MS)	10/04/17 22:28	Aqueous	12G1489	8.1459	1.0769	8.1220	0.9448
12G14903.D	AD00291-001(T)(MS)	10/04/17 22:47	Aqueous	12G1489	8.1448	1.0904	8.1205	0.9633
12G14904.D	AD00291-001(T)(MSD)	10/04/17 23:07	Aqueous	12G1489	8.1451	1.0868	8.1216	0.9497
12G14905.D	AD00291-001(T)	10/04/17 23:26	Aqueous	12G1489	8.1708	0.7717	8.1358	0.775
12G14906.D	AD00356-001(MS)	10/04/17 23:46	Soil	12G1489	8.1441	1.099	8.1198	0.9719
12G14907.D	AD00356-001(MSD)	10/05/17 00:05	Soil	12G1489	8.1440	1.1003	8.1187	0.9854
12G14908.D	AD00356-001	10/05/17 00:25	Soil	12G1489	8.1510	1.0143	8.1211	0.9559
12G14909.D	AD00291-002(T)	10/05/17 00:44	Aqueous	12G1489	8.1628	0.8697	8.1279	0.8722
12G14910.D	AD00350-003(T)	10/05/17 01:04	Aqueous	12G1489	8.1618	0.8819	8.1274	0.8783
12G14911.D	AD00350-005(T)	10/05/17 01:23	Aqueous	12G1489	8.1659	0.8317	8.1308	0.8365
12G14912.D	AD00366-001(T)	10/05/17 01:43	Aqueous	12G1489	8.1612	0.8893	8.1273	0.8795
12G14913.D	EF-1-V-264501(10/3)	10/05/17 02:02	Aqueous	12G1489	8.1716	0.7619	8.1349	0.7861
12G14914.D	BLK	10/05/17 02:21	Aqueous	12G1489	8.2907	0.685	8.2159	0.2047
12G14915.D	BLK	10/05/17 02:41	Aqueous	12G1489	8.2902	0.679	8.2140	0.1816
12G14916.D	200PPB	10/05/17 03:00	Aqueous	12G1489	8.1769	0.6971	8.1428	0.689
12G14917.D	CAL HERB@400PPB	10/05/17 03:20	Aqueous	12G1489	8.1596	0.9089	8.1292	0.8562

Drift Compound: Dcaa-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

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Form 6
Initial Calibration

Method: EPA 8151A

Instrument: GC_12

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	12G14825.D	CAL HERB@50PPB	09/28/17 11:05	2	12G14826.D	CAL HERB@100PPB	09/28/17 11:24
3	12G14827.D	CAL HERB@200PPB	09/28/17 11:44	4	12G14828.D	CAL HERB@400PPB	09/28/17 12:03
5	12G14829.D	CAL HERB@500PPB	09/28/17 12:22	6	12G14830.D	CAL HERB@600PPB	09/28/17 12:42

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Dalapon	1	0	Avg	28.766	29.415	31.302	30.320	29.079	30.539	----	----	29.9	4.52	0.998	0.998	3.3	50.00	100.0	200.0	400.0	500.0	600.0		
Dcaa-Surrogate	1	0	Avg	17.693	17.936	19.085	19.738	19.140	21.361	----	----	19.2	8.22	0.994	0.997	6.9	250.0	500.0	1000.	2000.	2500.	3000.		
Dicamba	1	0	Avg	96.362	93.421	94.665	82.997	86.764	86.724	----	----	90.2	8.35	0.998	0.998	6.0	50.00	100.0	200.0	400.0	500.0	600.0		
Dichloroprop	1	0	Avg	23.718	23.298	23.545	21.554	20.377	21.606	----	----	22.4	8.93	0.997	0.997	6.1	50.00	100.0	200.0	400.0	500.0	600.0		
2.4-D	1	0	Avg	26.836	26.555	26.876	25.902	24.540	26.214	----	----	26.2	9.26	0.997	0.997	3.3	50.00	100.0	200.0	400.0	500.0	600.0		
Silvex	1	0	Avg	110.43	110.48	116.85	117.04	111.83	122.03	----	----	115	9.80	0.996	0.997	4.1	50.00	100.0	200.0	400.0	500.0	600.0		
2.4.5-T	1	0	Avg	102.97	103.62	110.25	110.38	105.36	115.21	----	----	108	10.22	0.996	0.997	4.4	50.00	100.0	200.0	400.0	500.0	600.0		
2.4-DB	1	0	Avg	13.050	13.881	14.976	14.885	14.088	15.278	----	----	14.4	10.62	0.996	0.997	5.8	50.00	100.0	200.0	400.0	500.0	600.0		
Dinoseb	1	0	Avg	70.251	71.520	76.143	75.876	72.335	79.341	----	----	74.2	11.07	0.995	0.996	4.6	50.00	100.0	200.0	400.0	500.0	600.0		
Picloram	1	0	Avg	118.29	126.04	138.62	145.28	140.66	157.31	----	----	138	12.13	0.994	0.996	10	50.00	100.0	200.0	400.0	500.0	600.0		
Dalapon	2	0	Avg	9.6118	9.6949	10.020	9.6898	9.2475	9.6354	----	----	9.65	4.36	0.998	0.998	2.6	50.00	100.0	200.0	400.0	500.0	600.0		
Dcaa-Surrogate	2	0	Avg	6.0838	6.0500	6.3207	6.4085	6.2032	6.7336	----	----	6.30	8.19	0.996	0.998	4.0	250.0	500.0	1000.	2000.	2500.	3000.		
Dicamba	2	0	Avg	31.623	30.194	30.046	28.622	27.068	28.803	----	----	29.4	8.34	0.997	0.997	5.4	50.00	100.0	200.0	400.0	500.0	600.0		
Dichloroprop	2	0	Avg	10.707	10.177	9.8279	8.3384	7.8042	8.1242	----	----	9.16	8.76	0.995	0.995	13	50.00	100.0	200.0	400.0	500.0	600.0		
2.4-D	2	0	Avg	10.739	10.195	9.9854	9.4615	8.8776	9.4168	----	----	9.78	9.13	0.997	0.997	6.8	50.00	100.0	200.0	400.0	500.0	600.0		
Silvex	2	0	Avg	40.495	40.975	42.515	41.077	38.959	41.548	----	----	40.9	9.61	0.997	0.997	2.9	50.00	100.0	200.0	400.0	500.0	600.0		
2.4.5-T	2	0	Avg	19.992	23.364	27.112	28.314	27.610	30.450	----	----	26.1	10.06	0.998	0.998	15	50.00	100.0	200.0	400.0	500.0	600.0		
2.4-DB	2	0	Avg	7.7049	8.0508	8.1720	7.7062	7.1983	7.5529	----	----	7.73	10.42	0.997	0.997	4.5	50.00	100.0	200.0	400.0	500.0	600.0		
Dinoseb	2	0	Avg	44.852	42.264	41.139	37.864	35.554	37.235	----	----	39.8	10.11	0.997	0.997	8.8	50.00	100.0	200.0	400.0	500.0	600.0		
Picloram	2	0	Avg	43.930	46.156	50.245	50.214	48.526	53.366	----	----	48.7	12.05	0.995	0.997	6.8	50.00	100.0	200.0	400.0	500.0	600.0		

Avg Rsd Col 1: 5.46 Avg Rsd Col 2: 6.96

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

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Form 6
Initial Calibration

Method: EPA 8151A

Instrument: GC_12

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	12G14892.D	CAL HERB@50PPB	10/04/17 19:13	2	12G14894.D	CAL HERB@100PPB	10/04/17 19:52
3	12G14895.D	CAL HERB@200PPB	10/04/17 20:11	4	12G14896.D	CAL HERB@400PPB	10/04/17 20:31
5	12G14897.D	CAL HERB@500PPB	10/04/17 20:50	6	12G14898.D	CAL HERB@600PPB	10/04/17 21:10

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Dalapon	1	0	Avg	29.676	32.469	32.693	31.656	29.370	31.378	----	----	31.2	4.53	0.996	0.996	4.5	50.00	100.0	200.0	400.0	500.0	600.0		
Dcaa-Surrogate	1	0	Avg	17.465	18.498	19.079	19.625	18.337	20.886	----	----	19.0	8.23	0.991	0.994	6.2	250.0	500.0	1000.	2000.	2500.	3000.		
Dicamba	1	0	Avg	95.933	97.820	97.068	93.151	77.114	85.825	----	----	91.2	8.36	0.984	0.985	8.9	50.00	100.0	200.0	400.0	500.0	600.0		
Dichloroprop	1	0	Avg	23.454	24.546	24.221	22.731	19.858	21.560	----	----	22.7	8.93	0.991	0.991	7.8	50.00	100.0	200.0	400.0	500.0	600.0		
2,4-D	1	0	Avg	26.035	27.497	27.620	26.016	23.866	26.110	----	----	26.2	9.27	0.994	0.994	5.2	50.00	100.0	200.0	400.0	500.0	600.0		
Silvex	1	0	Avg	107.22	112.31	116.17	115.70	107.44	119.79	----	----	113	9.80	0.993	0.994	4.5	50.00	100.0	200.0	400.0	500.0	600.0		
2,4,5-T	1	0	Avg	101.46	106.36	109.79	109.73	101.50	113.02	----	----	107	10.21	0.994	0.994	4.4	50.00	100.0	200.0	400.0	500.0	600.0		
2,4-DB	1	0	Avg	17.461	15.782	15.767	15.262	14.078	15.428	----	----	15.6	10.61	0.994	0.995	7.0	50.00	100.0	200.0	400.0	500.0	600.0		
Dinoseb	1	0	Avg	70.790	75.649	77.970	76.716	71.712	79.394	----	----	75.4	11.06	0.994	0.995	4.6	50.00	100.0	200.0	400.0	500.0	600.0		
Picloram	1	0	Avg	135.66	124.70	129.04	149.93	146.11	160.45	----	----	141	12.11	0.994	0.998	9.6	50.00	100.0	200.0	400.0	500.0	600.0		
Dalapon	2	0	Avg	9.5084	9.9927	10.045	9.6310	9.0508	9.5728	----	----	9.63	4.37	0.997	0.997	3.8	50.00	100.0	200.0	400.0	500.0	600.0		
Dcaa-Surrogate	2	0	Avg	5.6667	5.9273	6.0795	6.1393	5.7275	6.3968	----	----	5.99	8.20	0.993	0.995	4.6	250.0	500.0	1000.	2000.	2500.	3000.		
Dicamba	2	0	Avg	29.316	29.808	29.337	27.938	25.662	27.908	----	----	28.3	8.35	0.995	0.995	5.4	50.00	100.0	200.0	400.0	500.0	600.0		
Dichloroprop	2	0	Avg	10.374	10.442	9.0879	8.2415	8.0001	7.9257	----	----	9.01	8.77	0.999	0.999	13	50.00	100.0	200.0	400.0	500.0	600.0		
2,4-D	2	0	Avg	10.392	11.217	10.819	9.4879	8.6798	----	----	----	10.1	9.14	0.989	1.00	10	50.00	100.0	200.0	400.0	500.0			
Silvex	2	0	Avg	36.974	40.596	40.963	39.656	36.580	39.832	----	----	39.1	9.61	0.995	0.995	4.8	50.00	100.0	200.0	400.0	500.0	600.0		
2,4,5-T	2	0	Avg	19.113	22.799	25.262	26.830	25.228	28.413	----	----	24.6	10.05	0.997	0.997	13	50.00	100.0	200.0	400.0	500.0	600.0		
2,4-DB	2	0	Avg	6.5009	6.9393	8.6501	7.8788	7.1191	7.5722	----	----	7.44	10.41	0.992	0.993	10	50.00	100.0	200.0	400.0	500.0	600.0		
Dinoseb	2	0	Avg	40.615	42.619	40.824	37.671	34.550	36.836	----	----	38.9	10.11	0.995	0.995	7.7	50.00	100.0	200.0	400.0	500.0	600.0		
Picloram	2	0	Avg	47.432	46.051	47.147	51.994	50.655	54.610	----	----	49.6	12.04	0.997	0.999	6.7	50.00	100.0	200.0	400.0	500.0	600.0		

Avg Rsd Col 1: 6.27 Avg Rsd Col 2: 7.95

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8151A

Data File:				12G14888.D			12G14891.D			12G14917.D									
Method:				8151			8151			8151									
Calibration Name:				CAL HERB@200P			CAL HERB@400P			CAL HERB@400P									
Calibration Date/Time				10/04/17 14:27			10/04/17 17:16			10/05/17 03:20									
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
Dalapon	15	1	0	210.1	200	5.0	431.3	400	7.8	399.6	400	0.1						
Dcaa-Surrogate	15	1	0	974	1000	2.6	2227	2000	11.3	2081	2000	4.1						
Dicamba	15	1	0	207.1	200	3.5	388.1	400	3.0	360.8	400	9.8						
Dichloroprop	15	1	0	205.7	200	2.9	395.1	400	1.2	379.1	400	5.2						
2,4-D	15	1	0	201.8	200	0.9	394.9	400	1.3	380.6	400	4.8						
Silvex	15	1	0	198.6	200	0.7	419.9	400	5.0	394.6	400	1.3						
2,4,5-T	15	1	0	199.8	200	0.1	427.8	400	7.0	395.1	400	1.2						
2,4-DB	15	1	0	206.7	200	3.3	435.5	400	8.9	369.4	400	7.6						
Dinoseb	15	1	0	199.3	200	0.3	433.6	400	8.4	396.1	400	1.0						
Picloram	15	1	0	207.4	200	3.7	335.2	400	16.2*	354.7	400	11.3						
Average Difference	15	1	0			2.3			7.0			4.7						
Dalapon	15	2	0	204.4	200	2.2	417.2	400	4.3	403.8	400	0.9						
Dcaa-Surrogate	15	2	0	987.2	1000	1.3	2175	2000	8.7	2085	2000	4.2						
Dicamba	15	2	0	201.5	200	0.8	407.2	400	1.8	392.6	400	1.9						
Dichloroprop	15	2	0	215.1	200	7.5	363.8	400	9.1	359.6	400	10.1						
2,4-D	15	2	0	213.2	200	6.6	384.3	400	3.9	348.7	400	12.8						
Silvex	15	2	0	205.3	200	2.6	405.8	400	1.4	401.9	400	0.5						
2,4,5-T	15	2	0	198.7	200	0.7	450.5	400	12.6	449.9	400	12.5						
2,4-DB	15	2	0	220.6	200	10.3	391	400	2.3	399	400	0.3						
Dinoseb	15	2	0	207.6	200	3.8	386.3	400	3.4	385.3	400	3.7						
Picloram	15	2	0	211.9	200	5.9	325.1	400	18.7*	382.9	400	4.3						
Average Difference	15	2	0			4.2			6.6			5.1						

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8151A

Data File:			12G14825.D		12G14892.D		12G14888.D		12G14892.D			
Calibration Name:			CAL HERB@50PPB		CAL HERB@50PPB		CAL HERB@200PPB		CAL HERB@50PPB			
Calibration Date/Time			9/28/2017 11:05:12 AM		10/4/2017 7:13:37 PM		10/4/2017 2:27:01 PM		10/4/2017 7:13:37 PM			
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
Dalapon	1	0	4.53	(4.49 - 4.57)	4.53	(4.49 - 4.57)	4.52	(4.48 - 4.56)	4.53	(4.49 - 4.57)		
Dcaa-Surrogate	1	0										
Dicamba	1	0	8.32	(8.28 - 8.36)	8.31	(8.27 - 8.35)	8.31	(8.27 - 8.35)	8.36	(8.32 - 8.40)		
Dichloroprop	1	0	8.90	(8.86 - 8.94)	8.90	(8.86 - 8.94)	8.90	(8.86 - 8.94)	8.93	(8.89 - 8.97)		
2,4-D	1	0	9.23	(9.19 - 9.27)	9.23	(9.19 - 9.27)	9.23	(9.19 - 9.27)	9.27	(9.23 - 9.31)		
Silvex	1	0	9.78	(9.74 - 9.82)	9.78	(9.74 - 9.82)	9.78	(9.74 - 9.82)	9.80	(9.76 - 9.84)		
2,4,5-T	1	0	10.19	(10.15 - 10.23)	10.19	(10.15 - 10.23)	10.19	(10.15 - 10.23)	10.21	(10.17 - 10.25)		
2,4-DB	1	0	10.60	(10.56 - 10.64)	10.59	(10.55 - 10.63)	10.60	(10.56 - 10.64)	10.61	(10.57 - 10.65)		
Dinoseb	1	0	11.06	(11.02 - 11.10)	11.05	(11.01 - 11.09)	11.05	(11.01 - 11.09)	11.06	(11.02 - 11.10)		
Picloram	1	0	12.10	(12.06 - 12.14)	12.09	(12.05 - 12.13)	12.10	(12.06 - 12.14)	12.11	(12.07 - 12.15)		
Dalapon	2	0	4.37	(4.33 - 4.41)	4.37	(4.33 - 4.41)	4.37	(4.33 - 4.41)	4.37	(4.33 - 4.41)		
Dcaa-Surrogate	2	0										
Dicamba	2	0	8.32	(8.28 - 8.36)	8.32	(8.28 - 8.36)	8.31	(8.27 - 8.35)	8.35	(8.31 - 8.39)		
Dichloroprop	2	0	8.73	(8.69 - 8.77)	8.74	(8.70 - 8.78)	8.74	(8.70 - 8.78)	8.77	(8.73 - 8.81)		
2,4-D	2	0	9.10	(9.06 - 9.14)	9.11	(9.07 - 9.15)	9.10	(9.06 - 9.14)	9.14	(9.10 - 9.18)		
Silvex	2	0	9.59	(9.55 - 9.63)	9.59	(9.55 - 9.63)	9.59	(9.55 - 9.63)	9.61	(9.57 - 9.65)		
2,4,5-T	2	0	10.03	(9.99 - 10.07)	10.03	(9.99 - 10.07)	10.03	(9.99 - 10.07)	10.05	(10.01 - 10.09)		
2,4-DB	2	0	10.39	(10.35 - 10.43)	10.39	(10.35 - 10.43)	10.39	(10.35 - 10.43)	10.41	(10.37 - 10.45)		
Dinoseb	2	0	10.09	(10.05 - 10.13)	10.09	(10.05 - 10.13)	10.09	(10.05 - 10.13)	10.11	(10.07 - 10.15)		
Picloram	2	0	12.03	(11.99 - 12.07)	12.02	(11.98 - 12.06)	12.03	(11.99 - 12.07)	12.04	(12.00 - 12.08)		

Metal Data

Form1
Inorganic Analysis Data Sheet

Sample ID:	AD00298-002	% Solid:	92	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	475 EXTERIOR NYRE	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	9/29/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-47-3	Chromium	5.4	46	1	0.5	50	10/04/17	62644	S21541J4	36	P	PEICP4A
7440-50-8	Copper	5.4	58	1	0.5	50	10/04/17	62644	S21541J4	36	P	PEICP4A
7439-92-1	Lead	5.4	120	1	0.5	50	10/04/17	62644	S21541J4	36	P	PEICP4A
7439-97-6	Mercury	0.091	0.37	1	0.15	25	10/02/17	62644	H21541S	29	CV	HGCV2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AD00298-002	% Solid:	92	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	475 EXTERIOR NYRE	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	9/29/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.22	6.0	1	0.5	100	10/03/17	62645	S100317A	28	MS	MS2_7500SWA
7440-43-9	Cadmium	0.43	ND	1	0.5	100	10/02/17	62645	S100217A	40	MS	MS2_7500SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	10/02/17	62645	S100217A	40	MS	MS2_7500SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	10/02/17	62645	S100217A	40	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AD00298-002	% Solid:	92	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	475 EXTERIOR NYRE	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	9/29/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-39-3	Barium	11	200	1	0.5	50	10/04/17	62650	S21541K4	36	P	PEICP4A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 62644 (100) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 62644 (100) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-36-0	Antimony	4.0	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-38-2	Arsenic	4.0	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-41-7	Beryllium	1.2	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-43-9	Cadmium	1.2	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-70-2	Calcium	1000	ND	1	0.5	50	09/30/17	62644	S21541B3	11	P	PEICPRAD3A
7440-47-3	Chromium	5.0	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-48-4	Cobalt	2.5	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-50-8	Copper	5.0	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7439-89-6	Iron	200	ND	1	0.5	50	09/30/17	62644	S21541B3	11	P	PEICPRAD3A
7439-92-1	Lead	5.0	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7439-95-4	Magnesium	500	ND	1	0.5	50	09/30/17	62644	S21541B3	11	P	PEICPRAD3A
7439-96-5	Manganese	10	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7439-98-7	Molybdenum	2.5	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-02-0	Nickel	5.0	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-09-7	Potassium	500	ND	1	0.5	50	09/30/17	62644	S21541B3	11	P	PEICPRAD3A
7782-49-2	Selenium	3.0	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-22-4	Silver	1.5	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-23-5	Sodium	250	ND	1	0.5	50	09/30/17	62644	S21541B3	11	P	PEICPRAD3A
7440-28-0	Thallium	1.5	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-31-5	Tin	20	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-32-6	Titanium	10	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-62-2	Vanadium	10	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A
7440-66-6	Zinc	10	ND	1	0.5	50	10/04/17	62644	S21541J4	12	P	PEICP4A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 62645
Client Id: MB 62645
Matrix: SOIL
Level: LOW

% Solid: 0
Units: MG/KG

Lab Name: Hampton-Clarke
Lab Code:

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.80	ND	1	0.5	100	10/02/17	62645	S100217A	15	MS	MS2_7500SWA
7440-38-2	Arsenic	0.20	ND	1	0.5	100	10/02/17	62645	S100217A	15	MS	MS2_7500SWA
7440-41-7	Beryllium	0.20	ND	1	0.5	100	10/02/17	62645	S100217A	15	MS	MS2_7500SWA
7440-43-9	Cadmium	0.40	ND	1	0.5	100	10/02/17	62645	S100217A	15	MS	MS2_7500SWA
7782-49-2	Selenium	2.0	ND	1	0.5	100	10/02/17	62645	S100217A	15	MS	MS2_7500SWA
7440-22-4	Silver	0.20	ND	1	0.5	100	10/02/17	62645	S100217A	15	MS	MS2_7500SWA
7440-28-0	Thallium	0.40	ND	1	0.5	100	10/02/17	62645	S100217A	15	MS	MS2_7500SWA

Comments:

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 62650 (100) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 62650 (100) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-39-3	Barium	10	ND	1	0.5	50	10/04/17	62650	S21541K4	12	P	PEICP4A

Comments:

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 62644 (167) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 62644 (167) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.083	ND	1	0.15	25	10/02/17	62644	H21541S	11	CV	HGCV2A

Comments:

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM 2
(ICV/CCV Summary)

Date Analyzed: 10/02/17
Data File: S100217A
Prep Batch: 62645
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-264480-8	Rec	CCV V-264484-21	Rec	CCV V-264484-34	Rec	CCV V-264484-47	Rec	CCV V-264484-59	Rec		Rec		Rec		Rec
Antimony	50/50	46.67000	93	48.98000	98	48.11000	96	47.71000	95	47.27000	95						
Arsenic	50/50	49.28000	99	50.29000	101	49.94000	100	50.24000	100	48.79000	98						
Beryllium	50/50	50.44000	101	50.95000	102	50.77000	102	50.93000	102	48.67000	97						
Cadmium	50/50	49.64000	99	50.70000	101	50.23000	100	49.56000	99	48.63000	97						
Selenium	50/250	51.02000	102	255.00000	102	257.50000	103	257.30000	103	257.20000	103						
Silver	10/50	9.78700	98	49.85000	100	48.56000	97	48.27000	97	47.02000	94						
Thallium	50/50	48.47000	97	50.96000	102	50.42000	101	50.00000	100	50.36000	101						

Notes: a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits: ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 10/02/17
Data File: S100217A
Prep Batch: 62645
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SPEX

Analyte	LLICV/ LLCCV Amt	LLICV V-264485-9	Rec	LLCCV V-264485-22	Rec	LLCCV V-264485-35	Rec	LLCCV V-264485-48	Rec	LLCCV V-264485-60	Rec		Rec		Rec		Rec
Antimony	4/4	3.834	96	3.713	93	3.563	89	3.531	88	3.517	88						
Arsenic	1/1	1.014	101	9.845E-01	98	9.895E-01	99	1.476	148 c	9.726E-01	97						
Beryllium	1/1	1.001	100	1.011	101	1.002	100	9.917E-01	99	9.462E-01	95						
Cadmium	2/2	1.995	100	1.941	97	1.903	95	1.888	94	1.865	93						
Selenium	10/10	9.887	99	10.13	101	10.15	102	10.65	106	10.06	101						
Silver	1/1	9.567E-01	96	9.346E-01	93	8.916E-01	89	9.098E-01	91	8.818E-01	88						
Thallium	2/2	1.777	89	1.761	88	1.711	86	1.662	83	1.676	84						

Notes: a-indicates analyte failed the LLICV limits for 6010B, 6010C, 6020, 6020A
c-indicates analyte failed the LLCCV limits for 6010B, 6010C, 6020, 6020A

Qc Limits: LLCCV- 6010B/6010C/6020/6020A (70-130)
LLICV -6010B/6010C/6020/6020A :70-130

FORM 2
(ICV/CCV Summary)

Date Analyzed: 10/04/17
Data File: S21541J4
Prep Batch: 62644
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-263834-7	Rec	CCV V-263834-20	Rec	CCV V-263834-27	Rec	CCV V-263834-39	Rec	CCV V-263834-51	Rec	Rec	Rec	Rec
Aluminum	5/5	5.37332	107	5.26724	105	5.09699	102	5.39469	108	4.78728	96			
Chromium	.5/.5	0.54347	109	0.52831	106	0.51575	103	0.54545	109	0.48411	97			
Cobalt	.5/.5	0.53016	106	0.52524	105	0.51073	102	0.52933	106	0.47306	95			
Copper	.5/.5	0.52288	105	0.50974	102	0.49464	99	0.52273	105	0.46071	92			
Lead	.5/.5	0.53575	107	0.52632	105	0.50827	102	0.52002	104	0.45902	92			
Manganese	.5/.5	0.53047	106	0.52334	105	0.50820	102	0.53317	107	0.47405	95			
Nickel	.5/.5	0.52859	106	0.51155	102	0.49363	99	0.50554	101	0.44880	90			
Vanadium	.5/.5	0.53571	107	0.52841	106	0.51009	102	0.53628	107	0.47720	95			
Zinc	.5/.5	0.53529	107	0.53042	106	0.51502	103	0.53572	107	0.49750	100			

Notes:
a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits:
ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 10/04/17
Data File: S21541J4
Prep Batch: 62644
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SPEX

Analyte	LLICV/ LLCCV Amt	LLICV [soil] V-264209-8	Rec	LLCCV [soil] V-264209-21	Rec	LLCCV [soil] V-264209-28	Rec	LLCCV [soil] V-264209-40	Rec	LLCCV [soil] V-264209-52	Rec		Rec		Rec		Rec
Aluminum	2.0/2	2.16638	108	2.17743	109	2.18325	109	2.20092	110	2.22157	111						
Chromium	0.05/0.05	0.0573422	115	0.0573953	115	0.0581169	116	0.0584665	117	0.0585404	117						
Cobalt	0.025/0.025	0.0257912	103	0.0266585	107	0.0263405	105	0.0262496	105	0.0265941	106						
Copper	0.05/0.05	0.0495298	99	0.0496562	99	0.0482655	97	0.0496048	99	0.0486095	97						
Lead	0.05/0.05	0.0530059	106	0.0532838	107	0.0499243	100	0.0574914	115	0.0517542	104						
Manganese	0.1/0.1	0.105863	106	0.107176	107	0.107930	108	0.108292	108	0.108801	109						
Nickel	0.05/0.05	0.0531728	106	0.0527349	105	0.0524619	105	0.0514905	103	0.0542751	109						
Vanadium	0.1/0.1	0.107947	108	0.108093	108	0.108949	109	0.109344	109	0.109891	110						
Zinc	0.1/0.1	0.102726	103	0.103701	104	0.103106	103	0.104214	104	0.118382	118						

Notes: a-indicates analyte failed the LLICV limits for 6010B, 6010C, 6020, 6020A
c-indicates analyte failed the LLCCV limits for 6010B, 6010C, 6020, 6020A

Qc Limits: LLCCV- 6010B/6010C/6020/6020A (70-130)
LLICV -6010B/6010C/6020/6020A :70-130

FORM 2
(ICV/CCV Summary)

Date Analyzed: 10/04/17
Data File: S21541K4
Prep Batch: 62650
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-263834-7	Rec	CCV V-263834-20	Rec	CCV V-263834-33	Rec	CCV V-263834-45	Rec	CCV V-263834-56	Rec	CCV V-263834-64	Rec		Rec		Rec
Barium	.5/.5	0.48423	97	0.46536	93	0.46544	93	0.47000	94	0.47573	95	0.48046	96				

Notes:
a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits:
ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 10/04/17
Data File: S21541K4
Prep Batch: 62650
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SPEX

Analyte	LLICV/ LLCCV Amt	LLICV [soil] V-264209-8	Rec	LLCCV [soil] V-264209-21	Rec	LLCCV [soil] V-264209-34	Rec	LLCCV [soil] V-264209-46	Rec	LLCCV [soil] V-264209-57	Rec	LLCCV [soil] V-264209-65	Rec	Rec	Rec
Barium	0.1/0.1	0.104516	105	0.103643	104	0.104443	104	0.104138	104	0.105677	106	0.105400	105		

Notes: a-indicates analyte failed the LLICV limits for 6010B, 6010C, 6020, 6020A
c-indicates analyte failed the LLCCV limits for 6010B, 6010C, 6020, 6020A

Qc Limits: LLCCV- 6010B/6010C/6020/6020A (70-130)
LLICV -6010B/6010C/6020/6020A :70-130

FORM 2
(ICV/CCV Summary)

Date Analyzed: 10/02/17
Data File: H21541S
Prep Batch: 62644
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: HGCV2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

		ICV (2)-9		CCV-21		CCV-33		CCV-37					
Analyte	ICV/CCV Amt		Rec		Rec		Rec		Rec	Rec	Rec	Rec	Rec
Mercury	20/10	18.66000	93	9.74200	97	9.66400	97	9.67000	97				

Notes: a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits: ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/02/17
Data File: S100217A
Prep Batch: 62645
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-264481-10	CCB V-264481-23	CCB V-264481-36	CCB V-264481-49	CCB V-264481-61	MB 62645-15
Antimony	4 U	4 U	4 U	4 U	4 U	800 U
Arsenic	1 U	1 U	1 U	1 U	1 U	200 U
Beryllium	1 U	1 U	1 U	1 U	1 U	200 U
Cadmium	2 U	2 U	2 U	2 U	2 U	400 U
Selenium	10 U	10 U	10 U	10 U	10 U	2000 U
Silver	1 U	1 U	1 U	1 U	1 U	200 U
Thallium	2 U	2 U	2 U	2 U	2 U	400 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/04/17
Data File: S21541J4
Prep Batch: 62644
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-261851-9	CCB-22	CCB-29	CCB-41	CCB-53	MB 62644 (100)-12
Aluminum	2 U	2 U	2 U	2 U	2 U	200 U
Chromium	.05 U	.05 U	.05 U	.05 U	.05 U	5 U
Cobalt	.025 U	.025 U	.025 U	.025 U	.025 U	2.5 U
Copper	.05 U	.05 U	.05 U	.05 U	.05 U	5 U
Lead	.05 U	.05 U	.05 U	.05 U	.05 U	5 U
Manganese	.1 U	.1 U	.1 U	.1 U	.1 U	10 U
Nickel	.05 U	.05 U	.05 U	.05 U	.05 U	5 U
Vanadium	.1 U	.1 U	.1 U	.1 U	.1 U	10 U
Zinc	.1 U	.1 U	.1 U	.1 U	.1 U	10 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/04/17
Data File: S21541K4
Prep Batch: 62650
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-261851-9	CCB-22	CCB-35	CCB-47	CCB-58	CCB-66	MB 62650 (100)-12
Barium	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U	10 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/02/17
Data File: H21541S
Prep Batch: 62644
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: HGCV2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB-10	CCB-22	CCB-34	CCB-38	MB 62644 (167)-11
Mercury	.5 U	.5 U	.5 U	.5 U	83 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 10/02/17
Data File: S100217A
Prep Batch: 62645
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-264482-11	Rec	ICSAB V-264483-12	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	50000	42480	85	47220.00000	94						
Antimony	0	U		0.21990							
Arsenic	100	U		105.00000	105						
Beryllium	0	U		0.00274							
Cadmium	100	U		98.20000	98						
Calcium	150000	133200	89	49000.00000	99						
Iron	125000	105000	84	116100.00000	93						
Magnesium	50000	42030	84	47350.00000	95						
Selenium	100	U		100.10000	100						
Silver	50	U		45.91000	92						
Thallium	0	U		-0.07650							

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 10/04/17
Data File: S21541J4
Prep Batch: 62644
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-263927-10	Rec	ICSAB V-263293-11	Rec	ICSA V-263927-25	Rec	ICSAB V-263293-26	Rec	ICSA V-263927-37	Rec	ICSAB V-263293-38	Rec	ICSA V-263927-49	Rec	ICSAB V-263293-50	Rec
Aluminum	500	511.122	102	533.26900	107	516.673	103	537.18900	107	515.205	103	530.25400	106	531.153	106	491.28000	98
Calcium	500	495.646	99	519.83600	104	492.996	99	521.81200	104	508.195	102	516.33900	103	513.348	103	494.17800	99
Chromium	.5	U		0.56179	112	U		0.56322	113	U		0.55936	112	U		0.53089	106
Cobalt	.5	U		0.48835	98	U		0.48408	97	U		0.47616	95	U		0.45242	90
Copper	.5	U		0.55051	110	U		0.55019	110	U		0.53988	108	U		0.52393	105
Iron	200	190.95	95	200.02400	100	194.437	97	201.84800	101	194.678	97	199.03300	100	199.959	100	186.45500	93
Lead	1	U		0.99214	99	U		0.96936	97	U		0.93898	94	U		0.87631	88
Magnesium	500	527.014	105	551.86400	110	535.354	107	554.41400	111	531.89	106	544.66800	109	548.549	110	508.36700	102
Manganese	.5	U		0.51503	103	U		0.51909	104	U		0.51050	102	U		0.48885	98
Nickel	1	U		0.95599	96	U		0.92747	93	U		0.89572	90	U		0.84613	85
Vanadium	.5	U		0.54754	110	U		0.54692	109	U		0.53940	108	U		0.51975	104
Zinc	1	U		1.00589	101	U		0.99639	100	U		0.98385	98	U		0.96818	97

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 10/04/17
Data File: S21541K4
Prep Batch: 62650
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-263927-10	Rec	ICSAB V-263293-11	Rec	ICSA V-263927-31	Rec	ICSAB V-263293-32	Rec	ICSA V-263927-43	Rec	ICSAB V-263293-44	Rec	ICSA V-293927-62	Rec	ICSAB V-263293-63	Rec
Aluminum	500	490.753	98	453.24400	91	489.789	98	475.38500	95	485.491	97	475.94300	95	490.909	98	479.28100	96
Barium	.5	U		0.44270	89	U		0.48306	97	U		0.48623	97	U		0.46410	93
Calcium	500	470.989	94	430.69100	86	457.221	91	451.13700	90	457.618	92	451.14500	90	456.937	91	448.38100	90
Iron	200	181.14	91	167.05100	84	179.836	90	174.69100	87	178.996	89	174.96100	87	177.638	89	174.14200	87
Magnesium	500	498.301	100	457.40200	91	493.419	99	477.27900	95	490.851	98	477.96200	96	484.874	97	475.47400	95

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 62644

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 62644

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Chromium	62644	1	S21541J4	14	0.6926	0.650	107		79	121
Copper	62644	1	S21541J4	14	0.5971	0.564	106		80	120
Lead	62644	1	S21541J4	14	0.8427	0.856	98		82	118
Mercury	62644	5	H21541S	15	13.1900	73.8	89		64	136

TxtQcType: LCS Matrix: SOIL SampleID: LCS 62644

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Chromium	62644	1	S21541J4	13	0.6743	0.650	104		79	121
Copper	62644	1	S21541J4	13	0.5793	0.564	103		80	120
Lead	62644	1	S21541J4	13	0.8328	0.856	97		82	118
Mercury	62644	5	H21541S	14	14.1300	73.8	96		64	136

TxtQcType: MSD Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Chromium	62644	1	S21541J4	18	S21541J4	15	0.6906	0.2317	0.5	92		75	125
Copper	62644	1	S21541J4	18	S21541J4	15	0.6917	0.2280	0.5	93		75	125
Lead	62644	1	S21541J4	18	S21541J4	15	0.7165	0.2488	0.5	94		75	125
Mercury	62644	1	H21541S	19	H21541S	16	9.2460	0.8030	10	84		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Chromium	62644	1	S21541J4	17	S21541J4	15	0.7134	0.2317	0.5	96		75	125
Copper	62644	1	S21541J4	17	S21541J4	15	0.7412	0.2280	0.5	103		75	125
Lead	62644	1	S21541J4	17	S21541J4	15	0.8040	0.2488	0.5	111		75	125
Mercury	62644	1	H21541S	18	H21541S	16	9.2250	0.8030	10	84		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 62644

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD00314-012

Analyte	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Chromium	1	S21541J4	19	S21541J4	15	0.7445	0.2317	0.50	103		80	120
Copper	1	S21541J4	19	S21541J4	15	0.7496	0.2280	0.50	104		80	120
Lead	1	S21541J4	19	S21541J4	15	0.7476	0.2488	0.50	100		80	120

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 62645

Instrument Type: ICPMS

Analytical Method(s):6020/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 62645

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	62645	1	S100217A	17	58.2200	57	102		75.1	124.9
Cadmium	62645	1	S100217A	17	77.7300	77.8	100		82.8	117.2
Selenium	62645	1	S100217A	17	80.4500	78.9	102		77.6	122.4
Silver	62645	1	S100217A	17	58.0500	54.2	107		74.7	125.3

TxtQcType: LCS Matrix: SOIL SampleID: LCS 62645

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	62645	1	S100217A	16	57.3700	57	101		75.1	124.9
Cadmium	62645	1	S100217A	16	76.3700	77.8	98		82.8	117.2
Selenium	62645	1	S100217A	16	78.2200	78.9	99		77.6	122.4
Silver	62645	1	S100217A	16	56.9200	54.2	105		74.7	125.3

TxtQcType: MSD Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	62645	1	S100217A	26	S100217A	18	234.2000	22.6200	250	85		75	125
Cadmium	62645	1	S100217A	26	S100217A	18	223.1000	2U	250	89		75	125
Selenium	62645	1	S100217A	26	S100217A	18	201.2000	10U	250	80		75	125
Silver	62645	1	S100217A	26	S100217A	18	41.5900	1U	50	83		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	62645	1	S100217A	25	S100217A	18	222.3000	22.6200	250	80		75	125
Cadmium	62645	1	S100217A	25	S100217A	18	213.0000	2U	250	85		75	125
Selenium	62645	1	S100217A	25	S100217A	18	197.6000	10U	250	79		75	125
Silver	62645	1	S100217A	25	S100217A	18	38.6800	1U	50	77		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 62645

Instrument Type: ICPMS

Analytical Method(s):6020/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD00314-012

Analyte	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	1	S100217A	27	S100217A	18	70.1200	22.6200	50	95		80	120
Cadmium	1	S100217A	27	S100217A	18	47.7900	2U	50	96		80	120
Selenium	1	S100217A	27	S100217A	18	236.4000	10U	250	95		80	120
Silver	1	S100217A	27	S100217A	18	46.1600	1U	50	92		80	120

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 62650

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 62650

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Barium	62650	1	S21541K4	14	1.0029	1.10	91		82	118

TxtQcType: LCS Matrix: SOIL SampleID: LCS 62650

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Barium	62650	1	S21541K4	13	0.9501	1.10	86		82	118

TxtQcType: MSD Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Barium	62650	1	S21541K4	18	S21541K4	15	1.4115	1.2108	0.5	40	a	75	125

TxtQcType: MS Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Barium	62650	1	S21541K4	17	S21541K4	15	1.1243	1.2108	0.5	-17	a	75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 62650

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD00314-012

Analyte	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Barium	1	S21541K4	19	S21541K4	15	1.8067	1.2108	0.50	119		80	120

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 62644

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 62644

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Chromium	62644	S21541J4	14	S21541J4	13	0.6926	0.6743	2.7		20
Copper	62644	S21541J4	14	S21541J4	13	0.5971	0.5793	3		20
Lead	62644	S21541J4	14	S21541J4	13	0.8427	0.8328	1.2		20
Mercury	62644	H21541S	15	H21541S	14	13.1900	14.1300	6.9		20

TxtQcType: MR Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Chromium	62644	S21541J4	16	S21541J4	15	0.2822	0.2317	20		20
Copper	62644	S21541J4	16	S21541J4	15	0.2925	0.2280	25	a	20
Lead	62644	S21541J4	16	S21541J4	15	0.4064	0.2488	48	a	20
Mercury	62644	H21541S	17	H21541S	16	0.6600	0.8030	20		20

TxtQcType: MSD Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	Data Fil	Seq#:	MS File	Seq#	Result 1	Result 2	RPD		Limit
Chromium	62644	S21541J4	18	S21541J4	17	0.6906	0.7134	3.2		20
Copper	62644	S21541J4	18	S21541J4	17	0.6917	0.7412	6.9		20
Lead	62644	S21541J4	18	S21541J4	17	0.7165	0.8040	12		20
Mercury	62644	H21541S	19	H21541S	18	9.2460	9.2250	.23		20

TxtQcType: SD Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Chromium	62644	S21541J4	23	S21541J4	15	5	0.0467	0.2317	0.78		10
Copper	62644	S21541J4	23	S21541J4	15	5	0.0457	0.2280	0.26		10
Lead	62644	S21541J4	23	S21541J4	15	5	0.0579	0.2488	16	a	10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 62645

Instrument Type: ICPMS

Analytical Method(s):6020/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 62645

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	62645	S100217A	17	S100217A	16	58.2200	57.3700	1.5	20
Cadmium	62645	S100217A	17	S100217A	16	77.7300	76.3700	1.8	20
Selenium	62645	S100217A	17	S100217A	16	80.4500	78.2200	2.8	20
Silver	62645	S100217A	17	S100217A	16	58.0500	56.9200	2	20

TxtQcType: MR Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	62645	S100217A	19	S100217A	18	21.8300	22.6200	3.6	20
Cadmium	62645	S100217A	19	S100217A	18	2U	2U	---	20
Selenium	62645	S100217A	19	S100217A	18	10U	10U	---	20
Silver	62645	S100217A	19	S100217A	18	1U	1U	---	20

TxtQcType: MSD Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	Data Fil	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	62645	S100217A	26	S100217A	25	234.2000	222.3000	5.2	20
Cadmium	62645	S100217A	26	S100217A	25	223.1000	213.0000	4.6	20
Selenium	62645	S100217A	26	S100217A	25	201.2000	197.6000	1.8	20
Silver	62645	S100217A	26	S100217A	25	41.5900	38.6800	7.3	20

TxtQcType: SD Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Arsenic	62645	S100217A	24	S100217A	18	5	4.6080	22.6200	1.9		10
Cadmium	62645	S100217A	24	S100217A	18	5	0.1353	0.6756	0.13		10
Selenium	62645	S100217A	24	S100217A	18	5	1.1160	5.7190	2.4		10
Silver	62645	S100217A	24	S100217A	18	5	0.0408	0.2603	22	c	10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 62650

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 62650

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Barium	62650	S21541K4	14	S21541K4	13	1.0029	0.9501	5.4		20

TxtQcType: MR Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Barium	62650	S21541K4	16	S21541K4	15	0.9825	1.2108	21	a	20

TxtQcType: MSD Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	Data Fil	Seq#:	MS File	Seq#	Result 1	Result 2	RPD		Limit
Barium	62650	S21541K4	18	S21541K4	17	1.4115	1.1243	23	a	20

TxtQcType: SD Matrix: SOIL SampleID: AD00314-012

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Barium	62650	S21541K4	23	S21541K4	15	5	0.2994	1.2108	24	a	10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B 200.7/200.8 OTHER_____

Batch No.: 21941 Analyst: CM

QC Number: 62644 Prep Date: 9/30/17

Matrix: SOIL Reviewed By: RB

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50mL	50mL				–	Balance used: 38
LCS	0.5g	↓				–	Pipettes used: 149,144
LCSD	↓	↓				–	
1. 00314-012	1.0g	100mL					Hot Block used: 4
MR -012	0.5g	↓					
MS -012	↓	↓					
MSD -012	↓	↓					
2. 00314-007	↓	↓					
3. -009	↓	↓					
4. -010	↓	↓					
5. 00294-001	↓	↓					
6. 00293-001	↓	↓					
7. 00297-002	↓	↓					
8. 00319-002	↓	↓					
9. 00298-002	↓	↓					
10. 00274-001	↓	↓					
11. -002	↓	↓					
12. -003	↓	↓					
13. -004	↓	↓					
14. -005	↓	↓					
15.							
16.							
17.							
18.							
19.							
20.							
21.							
22.							

Hot Plate Temperature: 93.7 C (90-95° C) Start Time: 11:00 End Time: 13:40

	Volume mL	Lot #
	0.5g	V-10950
LCSD		V-
	0.20mL	V-11062, 11063.
MSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5	V-11137
HCl	5	V-11019
H_2O_2	1.5	V-10899

Acid	Vol mL	Lot#
1:1 HNO_3	5	V-2[illegible]
1:1 HCl		V-

Relinquished By CM Date 9/30/17

Received By [illegible] Date 10/4/17

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RESET

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B 200.7/200.8 OTHER

Batch No.: 21541 Analyst: CM

QC Number: 62650 Prep Date: 10/2/17

Matrix: SOIL Reviewed By: SB

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50mL	50mL				--	Balance used: 4.38
LCS	0.5g					--	Pipettes used: 149, 144
LCSD						--	
1. 00314-012	1.0g	100mL					Hot Block used: 4
MR -012	0.5g	50mL					
MS -012							
MSD -012							
2. 00314-007							
3. -009							
4. -010							
5. 00294-001							
6. 00293-001							
7. 00297-002							
8. 00319-002							
9. 00298-002							
10. 00274-001							
11. -002							
12. -003							
13. -004							
14. -005							
15.							
16.							
17.							
18.							
19.							
20.							

Hot Plate Temperature: 93.1 C (90-95° C) Start Time: 11:45 End Time: 14:00

	Volume mL	Lot #
LCS, LCSD	0.5g	V- 10950
LLLCS, LLLCSD		V-
MS, MSD	0.25mL	V- 11062, 11063
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5	V-11137
HCl	5	V-11105
H_2O_2	1.5	V-10879

Acid	Vol mL	Lot#
1:1 HNO_3	5	V-2626
1:1 HCl		V-

Relinquished By CM Date 10/2/17

Received By CM Date 10/9/17

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Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B 200.7/200.8 OTHER_____

Batch No.: 21042 **Analyst:** CM

QC Number: 62647 **Prep Date:** 9/30/17

Matrix: SOIL - 6020 **Reviewed By:** m

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50mL	50mL	25mL	50mL		–	Balance used: 38
LCS	0.1g					–	Pipettes used: 149, 144
LCSD						–	
1. 00314-012	0.5g						Hot Block used: 4
MR -012							
MS -012							
MSD -012							
2. 00314-007							
3. -009							
4. -010.							
5. 00294-001							
6. 00293-001							
7. 00297-002							
8. 00182-016							
9. 00319-002							
10. 00298-002							
11. 00274-001							
12. -002							
13. -003							
14. -004							
15. -005							
16. 00324-001							
17. -002							
18. -003							
19. -004							
20. -005							

Hot Plate Temperature: 93.7 C (90-95° C) **Start Time:** 11:00 **End Time:** 13:20.

	Volume mL	Lot #
LCS, LCSD	0.1g	V-109550
LLLCS, LLLCSD		V-
MS, MSD	0.25	V-11062, 11063
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5	V-11137
HCl CM	~~5~~	V-~~11015~~
H_2O_2	1.5	V-10870

Acid	Vol mL	Lot#
1:1 HNO_3	5	V-262678.
1:1 HCl		V-

Relinquished By CM **Date** 9/30/17

Received By m **Date** 9/30/17

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HG SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 245.1 7470A (7471B) OTHER_____

Batch No.:* 21041

Number: 62644

Matrix: SOIL

Analyst: GJ

Prep Date: 9/30/17

Review By: QA

LAB ID#	MERCURY INITIAL	MERCURY FINAL	COMMENTS	STANDARDS
Blank	25mL	25mL		CAL CURVE BLK 0ppb V- 264464
	0.15g			
				STD 0.2 ppb V- 264465
314-012				STD 0.5 ppb V- 466
-012				STD 1.0 ppb V- 467
-012				STD 2.0 ppb V- 468
-012				STD 5.0 ppb V- 469
314-007				STD 10.0 ppb V- 470
-009				STD 25.0 ppb V- 471
-010				ICV 10.0 ppb V- 264462
294-001				CCV 20.0 ppb V- 264463
203-001				
207-002				
519-002				Balance used: 38
08-002				Pipettes used: 121, 132, 136, 150
74-001				
-002				Hot Block used: 7
-003				
-004				
-005				

Lot Numbers	Acid	Volume (mL)		Lot #
$KMnO_4$: V- 2506347	HNO_3			V-
$K_2S_2O_8$: V-	HCl			V-
NH_2OH: V- 2506349	H_2SO_4			V-
	Aqua Regia	1.25mL		V- 264461

**Block Temp: °C	92.4
Time In Block	12:00
Time Out of Block	12:30

Spike Volume & Lot #

☐ LCS V- 109970 0.15g / 0.25 ml

☐ MS V- 264460 0.250 ml

☐ Standards/Control Batch B- 23722

Start time: 11:00 End Time: 12:30

**Temperature
245.1 / 7470A: 90-95C
7471B : 92-98C

Relinquished By: GJ

*25 mLs of each standard was digested with this batch using the same reagents and at the same time as the above samples. The preparation of each standard may be referenced in Veriprog using the standard batch number and the corresponding V #s.

HG PREP 2016

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\HGCV2A\H21541S.txt

Analysis Date: 10/02/17

Instrument: HGCV2A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
Calibration Blank	1	CAL	11:57	1							0
.2 PPB	1	CAL	11:58	2							0
.5 PPB	1	CAL	12:00	3							0
1 PPB	1	CAL	12:01	4							0
2 PPB	1	CAL	12:02	5							0
5 PPB	1	CAL	12:04	6							0
10 PPB	1	CAL	12:05	7							0
25 PPB	1	CAL	12:07	8							0
ICV (2)	1	ICV	12:09	9							0
ICB	1	ICB	12:10	10							0
MB 62644 (167)	1	MB	12:12	11		SOIL	SOIL	SW846	62644		0
LCS 62644	1	NA	12:13	12		SOIL	SOIL	SW846	62644	over calibration range	0
LCS MR 62644	1	NA	12:15	13		SOIL	SOIL	SW846	62644	over calibration range	0
LCS 5D	5	LCS	12:16	14		SOIL	SOIL	SW846	62644		0
LCS MR 5D	5	LCS	12:18	15		SOIL	SOIL	SW846	62644		0
AD00314-012	1	SMP	12:20	16	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00314-012	1	MR	12:21	17	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00314-012	1	MS	12:22	18	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00314-012	1	MSD	12:24	19	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00314-007	1	SMP	12:26	20	HG-SOIL	SOIL	SOIL	SW846	62644		0
CCV	1	CCV	12:27	21							0
CCB	1	CCB	12:29	22							0
AD00314-009	1	SMP	12:30	23	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00314-010	1	SMP	12:32	24	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00294-001	1	SMP	12:33	25	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00293-001	1	SMP	12:34	26	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00297-002	1	SMP	12:36	27	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00319-002	1	SMP	12:37	28	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00298-002	1	SMP	12:38	29	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00274-001	1	SMP	12:39	30	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00274-002	1	SMP	12:41	31	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00274-003	1	SMP	12:42	32	HG-SOIL	SOIL	SOIL	SW846	62644		0
CCV	1	CCV	12:43	33							0
CCB	1	CCB	12:45	34							0
AD00274-004	1	SMP	12:47	35	HG-SOIL	SOIL	SOIL	SW846	62644		0
AD00274-005	1	SMP	12:48	36	HG-SOIL	SOIL	SOIL	SW846	62644		0
CCV	1	CCV	12:49	37							0
CCB	1	CCB	12:51	38							0

Comments/Reviewedby:

olufemi
192.168.1.25 10/2/2017 2:25:45 PM

RUN IS OK

R 10/4/17

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

V-264489

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS2_7500SWA\S100217A.b\S100217A.TXT

Analysis Date: 10/02/17 **Instrument:** MS2_7500SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
Rinse	1	NA	10:49	1	MET-SRS6020S	SOIL	SOIL	SW846	62645		0
CalBlk V-264474	1	ISBLK	10:55	2		SOIL	SOIL				V-264474(Cal Blk WARNING)
CalStd1 V-264475	1	CAL	11:01	3							V-264475(Cal Std-1 WARNING)
CalStd2 V-264476	1	CAL	11:08	4							V-264476(Cal Std-2 WARNING)
CalStd3 V-264477	1	CAL	11:14	5							V-264477(Cal Std-3 WARNING)
CalStd4 V-264478	1	CAL	11:20	6							V-264478(Cal Std-4 WARNING)
CalStd5 V-264479	1	CAL	11:25	7							V-264479(Cal Std-5 WARNING)
ICV V-264480	1	ICV	11:31	8							V-264480(ICV WARNING)
LLICV V-264485	1	LLICV	11:37	9	MET-SRS6020S	SOIL	SOIL	SW846	62645		V-264485(LL-ICV/CCV SOIL WARNING)
ICB V-264481	1	ICB	11:43	10							V-264481(ICB/CCB WARNING)
ICSA V-264482	1	ICSA	11:48	11							V-264482(ICSA WARNING)
ICSAB V-264483	1	ICSAB	11:54	12							V-264483(ICSAB WARNING)
RINSE	1	NA	12:00	13	MET-SRS6020S	SOIL	SOIL	SW846	62645		0
AD00268-001	2	SMP	12:06	14	MET-5-6020	SOIL	SOIL	SW846	62639	Report Be.	0
MB 62645	1	MB	12:12	15	MET-SRS6020S	SOIL	SOIL	SW846	62645		0
LCS 62645	1	LCS	12:17	16	MET-SRS6020S	SOIL	SOIL	SW846	62645		0
LCS MR 62645	1	LCS	12:23	17	MET-SRS6020S	SOIL	SOIL	SW846	62645		0
AD00314-012	1	SMP	12:29	18	MET-5-6020	SOIL	SOIL	SW846	62645		0
AD00314-012	1	MR	12:34	19	MET-5-6020	SOIL	SOIL	SW846	62645		0
RINSE	1	NA	12:40	20	MET-SRS6020S	SOIL	SOIL	SW846	62645		0
CCV V-264484	1	CCV	12:46	21							V-264484(CCV WARNING)
LLCCV V-264485	1	LLCCV	12:52	22	MET-SRS6020S	SOIL	SOIL	SW846	62645		V-264485(LL-ICV/CCV SOIL WARNING)
CCB V-264481	1	CCB	12:58	23							V-264481(ICB/CCB WARNING)
AD00314-012	5	SD	13:03	24	MET-5-6020	SOIL	SOIL	SW846	62645		0
AD00314-012	1	MS	13:09	25	MET-5-6020	SOIL	SOIL	SW846	62645		0
AD00314-012	1	MSD	13:15	26	MET-5-6020	SOIL	SOIL	SW846	62645		0
AD00314-012	1	PS	13:20	27	MET-5-6020	SOIL	SOIL	SW846	62645		0
AD00314-007	1	SMP	13:26	28	MET-5-6020	SOIL	SOIL	SW846	62645	Rerun Be.	0
AD00314-009	1	SMP	13:31	29	MET-5-6020	SOIL	SOIL	SW846	62645		0
AD00314-010	1	SMP	13:37	30	MET-5-6020	SOIL	SOIL	SW846	62645	Rerun Be.	0
AD00294-001	1	SMP	13:43	31	MET-SRS6020S	SOIL	SOIL	SW846	62645	Rerun Be.	0
AD00293-001	1	SMP	13:48	32	MET-TAL6020S	SOIL	SOIL	SW846	62645		0
RINSE	1	NA	13:55	33		SOIL	SOIL	SW846	62645		0
CCV V-264484	1	CCV	14:00	34							V-264484(CCV WARNING)
LLCCV V-264485	1	LLCCV	14:06	35		SOIL	SOIL	SW846	62645		V-264485(LL-ICV/CCV SOIL WARNING)
CCB V-264481	1	CCB	14:12	36							V-264481(ICB/CCB WARNING)
AD00297-002	1	SMP	14:18	37	MET-TAL6020S	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00182-016	1	SMP	14:23	38	MET-2-6020	SOIL	SOIL	SW846	62645		0
AD00319-002	1	SMP	14:29	39	MET-TAL6020S	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00298-002	1	SMP	14:35	40	MET-RCRA-MS	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00324-001	1	NA	14:40	41	MET-1-6020	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00324-002	1	NA	14:46	42	MET-1-6020	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00324-003	1	NA	14:52	43	MET-1-6020	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00324-004	1	NA	14:57	44	MET-1-6020	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00324-005	1	NA	15:03	45	MET-1-6020	SOIL	SOIL	SW846	62645	Rerun As.	0
RINSE	1	NA	15:09	46		SOIL	SOIL	SW846	62645		0
CCV V-264484	1	CCV	15:15	47							V-264484(CCV WARNING)
LLCCV V-264485	1	LLCCV	15:20	48		SOIL	SOIL	SW846	62645	As fail.	V-264485(LL-ICV/CCV SOIL WARNING)
CCB V-264481	1	CCB	15:26	49							V-264481(ICB/CCB WARNING)
AD00274-001	1	SMP	15:32	50	MET-RCRA-MS	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00274-002	1	SMP	15:38	51	MET-RCRA-MS	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00274-003	1	SMP	15:43	52	MET-RCRA-MS	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00274-004	1	SMP	15:49	53	MET-RCRA-MS	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00274-005	1	SMP	15:55	54	MET-RCRA-MS	SOIL	SOIL	SW846	62645	Rerun As.	0
AD00314-007	10	NA	16:01	55	MET-5-6020	SOIL	SOIL	SW846	62645		0
AD00314-010	2	NA	16:06	56	MET-5-6020	SOIL	SOIL	SW846	62645		0
AD00294-001	5	NA	16:12	57	MET-SRS6020S	SOIL	SOIL	SW846	62645		0
RINSE	1	NA	16:18	58		SOIL	SOIL	SW846	62645		0

Comments/Reviewedby:

pcousineau
192.168.1.28 10/3/2017 12:29:37 PM

Run ok. Report Ag, As, Be, Cd, Sb, Se, Tl. Rerun Be for 00314-007, 010, 00294-001 (int. std. 45 fail). Rerun As for 00297-002, 00319-002, 00298-002, 00274-001~005, 00324-001~005 (LLCCV fail). PC. B-21536 Report Be for 00268-001.

10/4/17

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 9/30/17

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS2_7500SWA\S100217A.b\S100217A.TXT

Analysis Date: 10/02/17

Instrument: MS2_7500SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CCV V-264484	1	CCV	16:24	59							V-264484(CCV WARNING)
LLCCV V-264485	1	LLCCV	16:30	60		SOIL	SOIL	SW846	62645		V-264485(LL-ICV/CCV SOIL WARNING)
CCB V-264481	1	CCB	16:36	61							V-264481(ICB/CCB WARNING)

Comments/Reviewedby:

pcousineau
192.168.1.28 10/3/2017 12:29:37 PM

Run ok. Report Ag, As, Be, Cd, Sb, Se, Tl. Rerun Be for 00314-007, 010, 00294-001 (int. std. 45 fail). Rerun As for 00297-002, 00319-002, 00298-002, 00274-001~005, 00324-001~005 (LLCCV fail). PC. B-21536 Report Be for 00268-001.

e 10/4/17

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 20 9/30/17

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP4A\S21541J4.txt

Analysis Date: 10/04/17

Instrument: PEICP4A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-261851	1	CAL	10:39	1							V-261851(ICB/CCB)
CALST1 V-263294	1	CAL	10:42	2							V-263294(ICS1 Lowest std)
CALST2 V-263538	1	CAL	10:46	3							V-263538(ICS2- Low Std)
CALST3 V-263925	1	CAL	10:49	4							V-263925(ICS3 - Middle Std)
CALST4 V-263540	1	CAL	10:52	5							V-263540(ICS4 High std)
ICS3 V-263925	1	ICS	10:56	6							V-263925(ICS3 - Middle Std)
ICV V-263834	1	ICV	10:59	7							V-263834(CCV)
LLICV [soil] V-264209	1	LLICV	11:03	8	MET-RCRA-S	SOIL	SOIL	SW846	62644		V-264209(LLICV/LLCCV soil)
ICB V-261851	1	ICB	11:06	9							V-261851(ICB/CCB)
ICSA V-263927	1	ICSA	11:09	10							V-263927(ICSA)
ICSAB V-263293	1	ICSAB	11:14	11							V-263293(ICSAB)
MB 62644 (100)	1	MB	11:19	12	MET-RCRA-S	SOIL	SOIL	SW846	62644		()
LCS 62644	1	LCS	11:22	13	MET-RCRA-S	SOIL	SOIL	SW846	62644	Ba failed in LCS	()
LCS MR 62644	1	LCS	11:27	14	MET-RCRA-S	SOIL	SOIL	SW846	62644	Ba failed in LCS	()
AD00314-012	1	SMP	11:31	15	SRSMETALS-S	SOIL	SOIL	SW846	62644		()
AD00314-012	1	MR	11:35	16	SRSMETALS-S	SOIL	SOIL	SW846	62644		()
AD00314-012	1	MS	11:38	17	SRSMETALS-S	SOIL	SOIL	SW846	62644		()
AD00314-012	1	MSD	11:42	18	SRSMETALS-S	SOIL	SOIL	SW846	62644		()
AD00314-012	1	PS	11:45	19	SRSMETALS-S	SOIL	SOIL	SW846	62644		()
CCV V-263834	1	CCV	11:49	20							V-263834(CCV)
LLCCV [soil] V-264209	1	LLCCV	11:52	21	MET-RCRA-S	SOIL	SOIL	SW846	62644		V-264209(LLICV/LLCCV soil)
CCB	1	CCB	11:56	22							()
AD00314-012	5	SD	11:59	23	SRSMETALS-S	SOIL	SOIL	SW846	62644		()
AD00314-007	1	SMP	12:02	24	SRSMETALS-S	SOIL	SOIL	SW846	62644	Mn not reported (higher than LR)	()
ICSA V-263927	1	ICSA	12:07	25							V-263927(ICSA)
ICSAB V-263293	1	ICSAB	12:12	26							V-263293(ICSAB)
CCV V-263834	1	CCV	12:17	27							V-263834(CCV)
LLCCV [soil] V-264209	1	LLCCV	12:20	28	MET-RCRA-S	SOIL	SOIL	SW846	62644		V-264209(LLICV/LLCCV soil)
CCB	1	CCB	12:24	29							()
AD00314-009	1	SMP	12:27	30	SRSMETALS-S	SOIL	SOIL	SW846	62644		()
AD00314-010	1	SMP	12:32	31	SRSMETALS-S	SOIL	SOIL	SW846	62644		()
AD00294-001	1	SMP	12:36	32	MET-SRS6010S	SOIL	SOIL	SW846	62644		()
AD00293-001	1	SMP	12:40	33	MET-TAL6010S	SOIL	SOIL	SW846	62644		()
AD00297-002	1	SMP	12:44	34	MET-TAL6010S	SOIL	SOIL	SW846	62644		()
AD00319-002	1	SMP	12:47	35	MET-TAL6010S	SOIL	SOIL	SW846	62644		()
AD00298-002	1	SMP	12:51	36	MET-RCRA-S	SOIL	SOIL	SW846	62644		()
ICSA V-263927	1	ICSA	12:55	37							V-263927(ICSA)
ICSAB V-263293	1	ICSAB	12:59	38							V-263293(ICSAB)
CCV V-263834	1	CCV	13:04	39							V-263834(CCV)
LLCCV [soil] V-264209	1	LLCCV	13:08	40	MET-RCRA-S	SOIL	SOIL	SW846	62644		V-264209(LLICV/LLCCV soil)
CCB	1	CCB	13:11	41							()
AD00274-001	1	SMP	13:14	42	MET-RCRA-S	SOIL	SOIL	SW846	62644		()
AD00274-002	1	SMP	13:18	43	MET-RCRA-S	SOIL	SOIL	SW846	62644		()
AD00274-003	1	SMP	13:22	44	MET-RCRA-S	SOIL	SOIL	SW846	62644	Cr not reported, (higher than LR)	()
AD00274-004	1	SMP	13:27	45	MET-RCRA-S	SOIL	SOIL	SW846	62644		()
AD00274-005	1	SMP	13:31	46	MET-RCRA-S	SOIL	SOIL	SW846	62644		()
AD00314-007	2	SMP	13:36	47	SRSMETALS-S	SOIL	SOIL	SW846	62644	Mn reported	()
AD00274-003	2	SMP	13:41	48	MET-RCRA-S	SOIL	SOIL	SW846	62644	Cr reported	()
ICSA V-263927	1	ICSA	13:45	49							V-263927(ICSA)
ICSAB V-263293	1	ICSAB	13:50	50							V-263293(ICSAB)
CCV V-263834	1	CCV	13:55	51							V-263834(CCV)
LLCCV [soil] V-264209	1	LLCCV	13:59	52	MET-RCRA-S	SOIL	SOIL	SW846	62644		V-264209(LLICV/LLCCV soil)
CCB	1	CCB	14:02	53							()
RINSE	1	SMP	14:05	54		SOIL	SOIL	SW846	62644		()

Comments/Reviewedby:

carmela
192.168.1.28 10/4/2017 2:32:13 PM

OK.
Ba not reported failed in LCS
10/5/17

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP4A\S21541K4.txt

Analysis Date: 10/04/17

Instrument: PEICP4A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-261851	1	CAL	14:38	1							V-261851(ICB/CCB)
CALST1 V-263294	1	CAL	14:41	2							V-263294(ICS1 Lowest std)
CALST2 V-263538	1	CAL	14:44	3							V-263538(ICS2- Low Std)
CALST3 V-263925	1	CAL	14:47	4							V-263925(ICS3 - Middle Std)
CALST4 V-263540	1	CAL	14:51	5							V-263540(ICS4 High std)
ICS3 V-263925	1	ICS	14:54	6							V-263925(ICS3 - Middle Std)
ICV V-263834	1	ICV	14:58	7							V-263834(CCV)
LLICV [soil] V-264209	1	LLICV	15:01	8		SOIL	SOIL	SW846	62650		V-264209(LLICV/LLCCV soil)
ICB V-261851	1	ICB	15:04	9							V-261851(ICB/CCB)
ICSA V-263927	1	ICSA	15:08	10							V-263927(ICSA)
ICSAB V-263293	1	ICSAB	15:13	11							V-263293(ICSAB)
MB 62650 (100)	1	MB	15:17	12		SOIL	SOIL	SW846	62650		()
LCS 62650	1	LCS	15:21	13		SOIL	SOIL	SW846	62650		()
LCS MR 62650	1	LCS	15:25	14		SOIL	SOIL	SW846	62650		()
AD00314-012	1	SMP	15:30	15	SRSMETALS-S	SOIL	SOIL	SW846	62650		()
AD00314-012	1	MR	15:34	16	SRSMETALS-S	SOIL	SOIL	SW846	62650		()
AD00314-012	1	MS	15:37	17	SRSMETALS-S	SOIL	SOIL	SW846	62650		()
AD00314-012	1	MSD	15:41	18	SRSMETALS-S	SOIL	SOIL	SW846	62650		()
AD00314-012	1	PS	15:44	19	SRSMETALS-S	SOIL	SOIL	SW846	62650		()
CCV V-263834	1	CCV	15:48	20							V-263834(CCV)
LLCCV [soil] V-264209	1	LLCCV	15:51	21		SOIL	SOIL	SW846	62650		V-264209(LLICV/LLCCV soil)
CCB	1	CCB	15:54	22							()
AD00314-012	5	SD	15:58	23	SRSMETALS-S	SOIL	SOIL	SW846	62650		()
AD00314-007	1	SMP	16:01	24	SRSMETALS-S	SOIL	SOIL	SW846	62650		()
AD00314-009	1	SMP	16:06	25	SRSMETALS-S	SOIL	SOIL	SW846	62650		()
AD00314-010	1	SMP	16:09	26	SRSMETALS-S	SOIL	SOIL	SW846	62650		()
AD00294-001	1	SMP	16:14	27	MET-SRS6010S	SOIL	SOIL	SW846	62650		()
AD00293-001	1	SMP	16:18	28	MET-TAL6010S	SOIL	SOIL	SW846	62650		()
AD00297-002	1	SMP	16:22	29	MET-TAL6010S	SOIL	SOIL	SW846	62650		()
AD00319-002	1	SMP	16:27	30	MET-TAL6010S	SOIL	SOIL	SW846	62650		()
ICSA V-263927	1	ICSA	16:31	31							V-263927(ICSA)
ICSAB V-263293	1	ICSAB	16:36	32							V-263293(ICSAB)
CCV V-263834	1	CCV	16:41	33							V-263834(CCV)
LLCCV [soil] V-264209	1	LLCCV	16:44	34		SOIL	SOIL	SW846	62650		V-264209(LLICV/LLCCV soil)
CCB	1	CCB	16:48	35							()
AD00298-002	1	SMP	16:51	36	MET-RCRA-S	SOIL	SOIL	SW846	62650		()
AD00274-001	1	SMP	16:54	37	MET-RCRA-S	SOIL	SOIL	SW846	62650		()
AD00274-002	1	SMP	16:58	38	MET-RCRA-S	SOIL	SOIL	SW846	62650		()
AD00274-003	1	SMP	17:03	39	MET-RCRA-S	SOIL	SOIL	SW846	62650		()
AD00274-004	1	NA	17:08	40	MET-RCRA-S	SOIL	SOIL	SW846	62650	Ba NOT reported (higher than LR)	()
AD00274-005	1	SMP	17:12	41	MET-RCRA-S	SOIL	SOIL	SW846	62650		()
AD00274-004	2	SMP	17:17	42	MET-RCRA-S	SOIL	SOIL	SW846	62650	Ba reported	()
ICSA V-263927	1	ICSA	17:21	43							V-263927(ICSA)
ICSAB V-263293	1	ICSAB	17:26	44							V-263293(ICSAB)
CCV V-263834	1	CCV	17:31	45							V-263834(CCV)
LLCCV [soil] V-264209	1	LLCCV	17:34	46		SOIL	SOIL	SW846	62650		V-264209(LLICV/LLCCV soil)
CCB	1	CCB	17:37	47							()
MB 62647 (100)	1	MB	17:40	48		SOIL	SOIL	SW846	62647		()
LCS 62647	1	LCS	17:44	49		SOIL	SOIL	SW846	62647		()
LCS MR 62647	1	LCS	17:48	50		SOIL	SOIL	SW846	62647		()
AD00316-027	1	SMP	17:53	51	MET-TAL6010S	SOIL	SOIL	SW846	62647		()
AD00316-027	1	MR	17:57	52	MET-TAL6010S	SOIL	SOIL	SW846	62647		()
AD00316-027	1	MS	18:00	53	MET-TAL6010S	SOIL	SOIL	SW846	62647		()
AD00316-027	1	MSD	18:04	54	MET-TAL6010S	SOIL	SOIL	SW846	62647		()
AD00316-027	1	PS	18:07	55	MET-TAL6010S	SOIL	SOIL	SW846	62647		()
CCV V-263834	1	CCV	18:11	56							V-263834(CCV)
LLCCV [soil] V-264209	1	LLCCV	18:14	57		SOIL	SOIL	SW846	62647		V-264209(LLICV/LLCCV soil)
CCB	1	CCB	18:17	58							()
AD00316-027	5	SD	18:21	59	MET-TAL6010S	SOIL	SOIL	SW846	62647		()
AD00316-026	1	SMP	18:24	60	MET-TAL6010S	SOIL	SOIL	SW846	62647		()

Comments/Reviewedby:

CARMELA
192.168.1.85 10/5/2017 1:12:39 PM

OK
BATCH# 21541/62650: Ba reported
BATHC# 21544/62647: ALL ELEMENTS EXCEPT EARTH ELEMENTS

10/5/17

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP4A\S21541K4.txt

Analysis Date: 10/04/17

Instrument: PEICP4A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
AD00316-028	1	SMP	18:28	61	MET-TAL6010S	SOIL	SOIL	SW846	62647		0
ICSA V-293927	1	ICSA	18:33	62							V-263927(ICSA)
ICSAB V-263293	1	ICSAB	18:37	63							V-263293(ICSAB)
CCV V-263834	1	CCV	18:42	64							V-263834(CCV)
LLCCV [soil] V-264209	1	LLCCV	18:46	65	MET-TAL6010S	SOIL	SOIL	SW846	62650		V-264209(LLICV/LLCCV soil)
CCB	1	CCB	18:49	66							0

Comments/Reviewedby:

CARMELA
192.168.1.85 10/5/2017 1:12:39 PM

OK.
BATCH# 21541/62650: Ba reported
BATHC# 21544/62647: ALL ELEMENTS EXCEPT EARTH ELEMENTS

10/5/17

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

ICPMS Internal Standard Summary Report

7092827 0231

TuneID: 1

Batch/FileID: S100217A Sample ID: CalBlk V-264474 Sample Date 10/02/17 Sample Time: 10:55

IS ID:	Area	Area Limit		
Ho-1	1197360	838152	-	1797237.36
In-1	477947.1	334562.97	-	717398.5971
Sc-1	100604.4	70423.08	-	151007.2044
Tb-1	1208543	845980.1	-	1814023.043

QcType	txtSamId:	Pos	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area	Area	Area	Area	Area
ISBLK	CalBlk V-264474	2	1197360	477947.1	100604.4	1208543				
SMP	Rinse	1	1100649	417652.3	91117.85	1117107				
CAL	CalStd1 V-26447	3	1211400	483454.0	99071.56	1230849				
CAL	CalStd2 V-26447	4	1227381	493981.3	102417.3	1255674				
CAL	CalStd3 V-26447	5	1231769	497798.0	104317.8	1250096				
CAL	CalStd4 V-26447	6	1257751	501722.4	109785.3	1270284				
CAL	CalStd5 V-26447	7	1234365	499363.8	111232.7	1261093				
ICV	ICV V-264480	8	1245568	504435.3	106355.1	1263477				
LLICV	LLICV V-264485	9	1263020	514318.2	108323.7	1296442				
ICB	ICB V-264481	10	1270785	513463.7	105672.4	1301578				
ICSA	ICSA V-264482	11	1184049	461520.2	127679.7	1206130				
ICSAB	ICSAB V-264483	12	1207629	470653.5	114937.8	1221839				
SMP	RINSE	13	1323002	545925.4	110404.4	1353531				
SMP	AD00268-001	14	1217043	483896.9	128548.6	1235493				
MB	MB 62645	15	1284468	528857.8	111629.9	1311292				
LCS	LCS 62645	16	1279405	516130.9	120330.2	1296028				
MR	LCS MR 62645	17	1266452	510337.4	119840.0	1290187				
SMP	AD00314-012	18	1307011	508095.8	152925.5 *	1321598				
MR	AD00314-012	19	1287418	491891.9	155090.6 *	1301521				
SMP	RINSE	20	1279636	530850.1	107659.3	1319766				
CCV	CCV V-264484	21	1254761	518201.5	111720.3	1287560				
LLCCV	LLCCV V-264485	22	1270473	521798.4	109297.8	1300594				
CCB	CCB V-264481	23	1263982	522880.6	107758.3	1291972				
SD	AD00314-012	24	1303944	524384.3	124435.6	1313557				
MS	AD00314-012	25	1258614	483968.1	144528.8	1271494				
MSD	AD00314-012	26	1261485	486885.8	144489.0	1269500				
PS	AD00314-012	27	1297616	501083.8	149004.8	1318502				
SMP	AD00314-007	28	1282232	458837.1	324072.4 *	1312773				
SMP	AD00314-009	29	1243088	450467.2	156238.5 *	1240227				
SMP	AD00314-010	30	1251567	464702.6	175775.5 *	1265681				
SMP	AD00294-001	31	1157541	409494.1	275458.4 *	1171220				
SMP	AD00293-001	32	1217493	464721.4	133582.5	1240297				
SMP	RINSE	33	1250361	518026.2	106052.4	1281446				
CCV	CCV V-264484	34	1235108	508374.8	109425.2	1252753				
LLCCV	LLCCV V-264485	35	1247860	511628.4	106641.0	1278304				
CCB	CCB V-264481	36	1235088	508269.2	104544.0	1249840				
SMP	AD00297-002	37	1227444	475994.8	140522.1	1236740				
SMP	AD00182-016	38	1427071	465349.3	219422.5 *	1431393				
SMP	AD00319-002	39	1219348	467240.4	140789.3	1241083				
SMP	AD00298-002	40	1178348	446902.8	152983.9 *	1181676				
SMP	AD00324-001	41	1148412	460225.9	110814.6	1172835				
SMP	AD00324-002	42	1131098	456426.9	117979.3	1135566				
SMP	AD00324-003	43	837980.2 *	334098.6 *	170280.1 *	851510.6				
SMP	AD00324-004	44	1003302	403048.6	124153.0	1034770				
SMP	AD00324-005	45	1062358	420771.0	135375.1	1077252				
SMP	RINSE	46	1219809	510548.6	106185.8	1229911				
CCV	CCV V-264484	47	1181132	489123.0	106120.3	1191955				
LLCCV	LLCCV V-264485	48	1177613	491111.7	102965.1	1202649				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

7092827 0232

TuneID: 1

CCB	CCB V-264481	49	1181420	493930.8	103414.1	1207704		
SMP	AD00274-001	50	1121996	462785.1	110338.0	1145994		
SMP	AD00274-002	51	1001140	405412.3	108055.7	1013363		
SMP	AD00274-003	52	1029742	418744.6	96328.24	1045665		
SMP	AD00274-004	53	1015311	408268.2	94360.87	1033882		
SMP	AD00274-005	54	798276.1 *	334287.9 *	82918.99	813488.8	*	101317
SMP	AD00314-007	55	1097959	434418.3	108660.5	1115288		
SMP	AD00314-010	56	1097101	412888.2	117637.1	1105808		
SMP	AD00294-001	57	1075037	414295.3	115404.9	1086875		
SMP	RINSE	58	1129011	450770.4	88669.43	1149545		
CCV	CCV V-264484	59	1036746	412951.1	85371.87	1055127		
LLCCV	LLCCV V-264485	60	1041020	415459.6	82619.75	1043765		
CCB	CCB V-264481	61	1053763	420892.3	81503.05	1073935		

ok 69.9%

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

7092827 0233

TuneID: 2

Batch/FileID: S100217A Sample ID: CalBlk V-264474 Sample Date 10/02/17 Sample Time: 10:55

IS ID:	Area	Area Limit		
Ho-2	2480116	1736081.2	-	3722654.116
In-2	1665487	1165840.9	-	2499895.987
Sc-2	1192548	834783.6	-	1790014.548
Tb-2	2531804	1772262.8	-	3800237.804

QcType	txtSamId:	Pos	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area		Area	Area	Area	Area
ISBLK	CalBlk V-264474	2	2480116	1665487	1192548	2531804					
SMP	Rinse	1	2410591	1649152	1180992	2477864					
CAL	CalStd1 V-26447	3	2460997	1669998	1169584	2511226					
CAL	CalStd2 V-26447	4	3268052	2224701	1548088	3313187					
CAL	CalStd3 V-26447	5	2516695	1690482	1211593	2539397					
CAL	CalStd4 V-26447	6	2542493	1690649	1249224	2551856					
CAL	CalStd5 V-26447	7	2509994	1676335	1270547	2541304					
ICV	ICV V-264480	8	2524084	1684770	1217977	2568773					
LLICV	LLICV V-264485	9	2528919	1688224	1213203	2561264					
ICB	ICB V-264481	10	2537836	1720605	1206866	2582457					
ICSA	ICSA V-264482	11	2423304	1603571	1374728	2462276					
ICSAB	ICSAB V-264483	12	2457736	1619434	1321133	2513187					
SMP	RINSE	13	2653194	1784157	1241874	2686149					
SMP	AD00268-001	14	2463979	1640034	1615066	2522172					
MB	MB 62645	15	2602812	1738410	1266600	2644464					
LCS	LCS 62645	16	2527186	1692916	1301796	2546953					
MR	LCS MR 62645	17	2554217	1686524	1319599	2603123					
SMP	AD00314-012	18	2584032	1648273	1641100	2623373					
MR	AD00314-012	19	2573359	1623015	1694702	2604324					
SMP	RINSE	20	2554727	1737342	1204298	2616813					
CCV	CCV V-264484	21	2528492	1688445	1235428	2580376					
LLCCV	LLCCV V-264485	22	2511426	1710454	1218264	2572261					
CCB	CCB V-264481	23	2526123	1713300	1201305	2573699					
SD	AD00314-012	24	2565249	1690050	1346617	2622508					
MS	AD00314-012	25	2554326	1613130	1582453	2598911					
MSD	AD00314-012	26	2544559	1619620	1596286	2582281					
PS	AD00314-012	27	2597977	1677897	1659793	2638308					
SMP	AD00314-007	28	2553875	1552098	3561511	* 2644221					
SMP	AD00314-009	29	2718718	1665083	1795286	* 2740826	OK. 150.5% 10/3/17 m				
SMP	AD00314-010	30	2536055	1566007	1939943	* 2558777					
SMP	AD00294-001	31	2492583	1494552	3046230	* 2526228					
SMP	AD00293-001	32	2481875	1560582	1504977	2523973					
SMP	RINSE	33	2541079	1723304	1186069	2600182					
CCV	CCV V-264484	34	2494731	1681907	1208369	2532196					
LLCCV	LLCCV V-264485	35	2477837	1704684	1177932	2532053					
CCB	CCB V-264481	36	2478218	1675927	1168882	2522532					
SMP	AD00297-002	37	2443418	1577878	1485473	2474934					
SMP	AD00182-016	38	2890057	1585493	2419574	* 2916108					
SMP	AD00319-002	39	2470321	1562031	1558682	2483314					
SMP	AD00298-002	40	2388811	1502683	1690135	2408952					
SMP	AD00324-001	41	2369089	1582074	1275628	2417154					
SMP	AD00324-002	42	2376096	1570269	1295461	2414204					
SMP	AD00324-003	43	1805676	1169254	1912647	* 1835331					
SMP	AD00324-004	44	2160677	1419184	1410510	2177474					
SMP	AD00324-005	45	2222502	1451782	1517741	2246532					
SMP	RINSE	46	2485411	1722434	1207435	2562724					
CCV	CCV V-264484	47	2381036	1624033	1173602	2436701					
LLCCV	LLCCV V-264485	48	2419755	1651289	1164747	2473431					

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

CCB	CCB V-264481	49	2418430		1647522	1146420	2450402	
SMP	AD00274-001	50	2235395		1513717	1149899	2304887	
SMP	AD00274-002	51	2048730		1395549	1105957	2081654	
SMP	AD00274-003	52	2164201		1426420	1027546	2185705	
SMP	AD00274-004	53	2083744		1397993	1048326	2136627	
SMP	AD00274-005	54	1684561	*	1183827	918081.9	1713868	*
SMP	AD00314-007	55	2249110		1453983	1205414	2280599	
SMP	AD00314-010	56	2286545		1408178	1341889	2315572	
SMP	AD00294-001	57	2218111		1433812	1291781	2250604	
SMP	RINSE	58	2199848		1460178	957094.1	2258849	
CCV	CCV V-264484	59	2217959		1431263	987192.3	2243952	
LLCCV	LLCCV V-264485	60	2167867		1419059	940864.1	2212064	
CCB	CCB V-264481	61	2105341		1388268	907597.5	2154282	

* Indicates Internal Standard Area outside of limits

TCLP Metal Data

Form1
Inorganic Analysis Data Sheet

Sample ID:	AD00298-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	475 EXTERIOR NYRE	Units:	MG/L	Lab Code:		Sdg No:	
Matrix:	TCLP	Date Rec:	9/29/2017	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.10	ND	1	50	50	10/04/17	62637	T21534B2	28	P	PEICP2A
7440-39-3	Barium	0.25	0.41	1	50	50	10/04/17	62637	T21534B2	28	P	PEICP2A
7440-43-9	Cadmium	0.050	ND	1	50	50	10/04/17	62637	T21534B2	28	P	PEICP2A
7440-47-3	Chromium	0.10	ND	1	50	50	10/04/17	62637	T21534B2	28	P	PEICP2A
7439-92-1	Lead	0.050	ND	1	50	50	10/04/17	62637	T21534B2	28	P	PEICP2A
7439-97-6	Mercury	0.00050	ND	1	25	25	10/04/17	62637	H21534T	17	CV	HGCV2A
7782-49-2	Selenium	0.10	ND	1	50	50	10/04/17	62637	T21534B2	28	P	PEICP2A
7440-22-4	Silver	0.050	ND	1	50	50	10/04/17	62637	T21534B2	28	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 62637 (1) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 62637 (1) Units: MG/L Lab Code:
Matrix: TCLP
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	1.0	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-36-0	Antimony	0.070	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-38-2	Arsenic	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-39-3	Barium	0.25	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-41-7	Beryllium	0.012	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-43-9	Cadmium	0.050	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-70-2	Calcium	5.0	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-47-3	Chromium	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-48-4	Cobalt	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-50-8	Copper	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7439-89-6	Iron	1.0	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7439-92-1	Lead	0.050	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7439-95-4	Magnesium	5.0	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7439-96-5	Manganese	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7439-97-6	Mercury	0.00050	ND	1	25	25	10/04/17	62637	H21534T	11	CV	HGCV2A
7439-98-7	Molybdenum	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-02-0	Nickel	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7782-49-2	Selenium	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-22-4	Silver	0.050	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-28-0	Thallium	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-31-5	Tin	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-32-6	Titanium	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-62-2	Vanadium	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A
7440-66-6	Zinc	0.10	ND	1	50	50	10/04/17	62637	T21534B2	12	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM 2
(ICV/CCV Summary)

Date Analyzed: 10/04/17
Data File: T21534B2
Prep Batch: 62637
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-263834-7	Rec	CCV V-263834-20	Rec	CCV V-263834-32	Rec		Rec		Rec		Rec		Rec		Rec
Arsenic	.5/.5	0.49708	99	0.46461	93	0.45403	91										
Barium	.5/.5	0.49754	100	0.46914	94	0.46000	92										
Cadmium	.5/.5	0.48972	98	0.46504	93	0.45626	91										
Chromium	.5/.5	0.50929	102	0.47841	96	0.47034	94										
Copper	.5/.5	0.50934	102	0.48774	98	0.47702	95										
Lead	.5/.5	0.50874	102	0.47346	95	0.46816	94										
Nickel	.5/.5	0.49264	99	0.46368	93	0.45705	91										
Selenium	.5/.5	0.50909	102	0.46870	94	0.45960	92										
Silver	0.1/0.1	0.09723	97	0.09154	92	0.09013	90										
Zinc	.5/.5	0.50923	102	0.46357	93	0.45893	92										

Notes:
a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits:
ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 10/04/17
Data File: T21534B2
Prep Batch: 62637
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SPEX

Analyte	LLICV/ LLCCV Amt	LLICV [leach] V-260724-	Rec	LLCCV [leach] V-260724-21	Rec	LLCCV [leach] V-260724-33	Rec		Rec		Rec		Rec		Rec		Rec
Arsenic	0.1/0.1	0.0999541	100	0.0925292	93	0.0894353	89										
Barium	0.25/0.25	0.256158	102	0.247389	99	0.237564	95										
Cadmium	0.05/0.05	0.0494421	99	0.0469915	94	0.0455704	91										
Chromium	0.1/0.1	0.101862	102	0.0981932	98	0.0940162	94										
Copper	0.1/0.1	0.102742	103	0.0993845	99	0.0961046	96										
Lead	0.05/0.05	0.0507517	102	0.0478495	96	0.0467657	94										
Nickel	0.1/0.1	0.101109	101	0.0952249	95	0.0921058	92										
Selenium	0.1/0.1	0.105464	105	0.0977493	98	0.0927124	93										
Silver	0.05/0.05	0.0477626	96	0.0457925	92	0.0435333	87										
Zinc	0.1/0.1	0.0998904	100	0.0931742	93	0.0904395	90										

Notes: a-indicates analyte failed the LLICV limits for 6010B, 6010C, 6020, 6020A
c-indicates analyte failed the LLCCV limits for 6010B, 6010C, 6020, 6020A

Qc Limits: LLCCV- 6010B/6010C/6020/6020A (70-130)
LLICV -6010B/6010C/6020/6020A :70-130

FORM 2
(ICV/CCV Summary)

Date Analyzed: 10/04/17
Data File: H21534T
Prep Batch: 62637
Analytical Method: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: HGCV2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV (2)-9	Rec	CCV-21	Rec	CCV-33	Rec	CCV-39	Rec		Rec		Rec		Rec		Rec
Mercury	20/10	20.82000	104	10.63000	106	10.52000	105	10.77000	108								

Notes:
a-indicates analyte failed the ICV limits for 6010B/6010C, 6020/6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B/6010C (Except Hg 7470/7470A,7471A/7471B),6020/6020A
d-indicates analyte failed the CCV limits Hg 7470A/7471A/7471B

Qc Limits:
ICV - 200.7 : 95-105
CCV- 200.7/200.8/6010B/6010C/245.1 : 90-110 (Except Hg 7470/7470A/ 7471A/7471B=80-120)
ICV -6010B/6010C/6020/6020A/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
CLP Hg ICV/CCV: 80-120

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/04/17
Data File: T21534B2
Prep Batch: 62637
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-261851-9	CCB-22	CCB-34	MB 62637 (1)-12	EF-V-264501-29			
Arsenic	.1 U	.1 U	.1 U	.1 U	.1 U			
Barium	.25 U	.25 U	.25 U	.25 U	.25 U			
Cadmium	.05 U	.05 U	.05 U	.05 U	.05 U			
Chromium	.1 U	.1 U	.1 U	.1 U	.1 U			
Copper	.1 U	.1 U	.1 U	.1 U	.1 U			
Lead	.05 U	.05 U	.05 U	.05 U	.05 U			
Nickel	.1 U	.1 U	.1 U	.1 U	.1 U			
Selenium	.1 U	.1 U	.1 U	.1 U	.1 U			
Silver	.05 U	.05 U	.05 U	.05 U	.05 U			
Zinc	.1 U	.1 U	.1 U	.1 U	.1 U			

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/04/17
Data File: H21534T
Prep Batch: 62637
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: HGCV2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB-10	CCB-22	CCB-34	CCB-40	MB 62637 (1)-11	EF-V-264501-38		
Mercury	.5 U	.5 U	.5 U	.5 U	.5 U	.5 U		

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 10/04/17
Data File: T21534B2
Prep Batch: 62637
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 7092827

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-263927-10	Rec	ICSAB V-263293-11	Rec	ICSA V-263927-30	Rec	ICSAB V-263293-31	Rec	Rec	Rec	Rec	Rec
Aluminum	500	488.287	98	477.98700	96	453.923	91	454.87800	91				
Arsenic	1	U		0.99364	99	U		0.90384	90				
Barium	.5	U		0.48740	97	U		0.45956	92				
Cadmium	1	U		0.98984	99	U		0.92063	92				
Calcium	500	479.84	96	471.67200	94	445.965	89	447.04900	89				
Chromium	.5	U		0.49206	98	U		0.46510	93				
Copper	.5	U		0.52829	106	U		0.50311	101				
Iron	200	188.526	94	186.41400	93	175.423	88	176.67600	88				
Lead	1	U		0.97954	98	U		0.89776	90				
Magnesium	500	496.633	99	489.52500	98	460.185	92	462.95400	93				
Nickel	1	U		0.94651	95	U		0.88193	88				
Selenium	1	U		1.01228	101	U		0.92865	93				
Silver	1	U		1.06038	106	U		1.00253	100				
Zinc	1	U		0.96940	97	U		0.89296	89				

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 62637

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: TCLP SampleID: LCSW MR 62637

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	62637	1	T21534B2	14	0.4957	0.5	99		80	120
Barium	62637	1	T21534B2	14	0.4975	0.5	99		80	120
Cadmium	62637	1	T21534B2	14	0.4920	0.5	98		80	120
Chromium	62637	1	T21534B2	14	0.4954	0.5	99		80	120
Lead	62637	1	T21534B2	14	0.5097	0.5	102		80	120
Mercury	62637	1	H21534T	13	10.6200	10	106		80	120
Selenium	62637	1	T21534B2	14	0.4984	0.5	100		80	120
Silver	62637	1	T21534B2	14	0.0952	0.100	95		80	120

TxtQcType: LCS Matrix: TCLP SampleID: LCSW 62637

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	62637	1	T21534B2	13	0.5033	0.5	101		80	120
Barium	62637	1	T21534B2	13	0.4999	0.5	100		80	120
Cadmium	62637	1	T21534B2	13	0.4973	0.5	99		80	120
Chromium	62637	1	T21534B2	13	0.5003	0.5	100		80	120
Lead	62637	1	T21534B2	13	0.5124	0.5	102		80	120
Mercury	62637	1	H21534T	12	10.7200	10	107		80	120
Selenium	62637	1	T21534B2	13	0.5056	0.5	101		80	120
Silver	62637	1	T21534B2	13	0.0966	0.100	97		80	120

TxtQcType: MS Matrix: TCLP SampleID: AD00292-002

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	62637	1	T21534B2	17	T21534B2	15	0.5038	0.1U	0.5	101		50	
Barium	62637	1	T21534B2	17	T21534B2	15	0.9722	0.4843	0.5	98		50	
Cadmium	62637	1	T21534B2	17	T21534B2	15	0.4884	0.05U	0.5	98		50	
Chromium	62637	1	T21534B2	17	T21534B2	15	0.4742	0.1U	0.5	95		50	
Lead	62637	1	T21534B2	17	T21534B2	15	0.4803	0.05U	0.5	96		50	
Mercury	62637	1	H21534T	16	H21534T	14	10.3500	0.50U	10	104		50	
Selenium	62637	1	T21534B2	17	T21534B2	15	0.5142	0.1U	0.5	103		50	
Silver	62637	1	T21534B2	17	T21534B2	15	0.0975	0.05U	0.10	97		50	

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 62637

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: TCLP SampleID: AD00292-002

Analyte	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	1	T21534B2	18	T21534B2	15	0.4871	0.1U	0.5	97		80	120
Barium	1	T21534B2	18	T21534B2	15	0.9162	0.4843	0.5	86		80	120
Cadmium	1	T21534B2	18	T21534B2	15	0.4748	0.05U	0.5	95		80	120
Chromium	1	T21534B2	18	T21534B2	15	0.4584	0.1U	0.5	92		80	120
Lead	1	T21534B2	18	T21534B2	15	0.4697	0.05U	0.5	94		80	120
Selenium	1	T21534B2	18	T21534B2	15	0.4984	0.1U	0.5	100		80	120
Silver	1	T21534B2	18	T21534B2	15	0.0821	0.05U	0.1	82		80	120

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 62637

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: TCLP SampleID: LCSW MR 62637

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	62637	T21534B2	14	T21534B2	13	0.4957	0.5033	1.5	20
Barium	62637	T21534B2	14	T21534B2	13	0.4975	0.4999	.5	20
Cadmium	62637	T21534B2	14	T21534B2	13	0.4920	0.4973	1.1	20
Chromium	62637	T21534B2	14	T21534B2	13	0.4954	0.5003	.99	20
Lead	62637	T21534B2	14	T21534B2	13	0.5097	0.5124	.53	20
Mercury	62637	H21534T	13	H21534T	12	10.6200	10.7200	.94	20
Selenium	62637	T21534B2	14	T21534B2	13	0.4984	0.5056	1.4	20
Silver	62637	T21534B2	14	T21534B2	13	0.0952	0.0966	1.5	20

TxtQcType: MR Matrix: TCLP SampleID: AD00292-002

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	62637	T21534B2	16	T21534B2	15	0.1U	0.1U	---	20
Barium	62637	T21534B2	16	T21534B2	15	0.4734	0.4843	2.3	20
Cadmium	62637	T21534B2	16	T21534B2	15	0.05U	0.05U	---	20
Chromium	62637	T21534B2	16	T21534B2	15	0.1U	0.1U	---	20
Lead	62637	T21534B2	16	T21534B2	15	0.05U	0.05U	---	20
Mercury	62637	H21534T	15	H21534T	14	0.50U	0.50U	---	20
Selenium	62637	T21534B2	16	T21534B2	15	0.1U	0.1U	---	20
Silver	62637	T21534B2	16	T21534B2	15	0.05U	0.05U	---	20

TxtQcType: SD Matrix: TCLP SampleID: AD00292-002

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff	Limit
Arsenic	62637	T21534B2	19	T21534B2	15	5	-0.0014	0.0002	---	10
Barium	62637	T21534B2	19	T21534B2	15	5	0.0898	0.4843	7.3	10
Cadmium	62637	T21534B2	19	T21534B2	15	5	-0.0006	0.0011	---	10
Chromium	62637	T21534B2	19	T21534B2	15	5	-0.0004	0.0037	---	10
Lead	62637	T21534B2	19	T21534B2	15	5	-0.0018	0.0150	---	10
Selenium	62637	T21534B2	19	T21534B2	15	5	-0.0081	-0.0063	---	10
Silver	62637	T21534B2	19	T21534B2	15	5	-0.0003	0.0002	---	10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: (3010A) 3005A 3050B 200.7/200.8 OTHER_____

Batch No.: 21534 Analyst: lm

QC Number: 62637 Prep Date: 10/4/17

Matrix: TCLP Reviewed By: ok.

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50ml	50ml				--	Balance used: N/A
LCS						--	Pipettes used: 149, 1660
LCSD						--	
1. ~~LD~~ 00292-002					V264501	00292-002	Hot Block used: 1
MR 00292-002							
MS 00292-002							
~~MSD~~							
2. 00291-001	50ml	50ml			V264501	00292-002	
3. 00291-002							
4. 00292-004							
5. -006							
6. -008							
7. -010							
8. -012							
9. 00296-012							
10. 00298-002							
11. 00319-002							
12. 00328-001							
13. 00316-026							
14. -027							
15. -028							
16. 00350-003							
17. 00350-005							
18. 00366-001					filtered		
19. V-264501					V264501		
20.							

Hot Plate Temperature: 93.0 C (90-95° C) Start Time: 9:00 End Time: 12:20

	Volume mL	Lot #
LCS, LCSD	0.25ml	V-11062, 11063
LLLCS, LLLCSD		V-
MS, MSD	0.25ml	V-11062, 11063
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	3ml	V-11137
HCl		V-
H_2O_2		V-

Acid	Vol mL	Lot#
1:1 HNO_3		V-
1:1 HCl	5ml	V-262677

Relinquished By lm Date 10/4/17

Received By ok. Date 10/04/2017

T:\QC\FORMS\LOGBOOK FORMS\METALS\ICP sample prep log 2016 DOD.DOC

HG SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 245.1 (7470A) 7471B OTHER_____

Batch No.:* 21534

QC Number: 62637

Matrix: TCLP

Analyst: [illegible]

Prep Date: 10/4/19

Review By: [illegible]

LAB ID#	MERCURY INITIAL	MERCURY FINAL	COMMENTS	STANDARDS
Method blank	25ML	25ML		CAL CURVE BLK 0ppb V-264643
LCS				
LCSD				STD 0.2 ppb V-264644
1 ~~LCS~~ 00292-002				STD 0.5 ppb V-264645
MR 00292-002				STD 1.0 ppb V-264646
MS 00292-002				STD 2.0 ppb V-264647
~~MSD~~				STD 5.0 ppb V-264648
2 00291-001				STD 10.0 ppb V-264649
3 -002				STD 25.0 ppb V-264650
4 -004				ICV 10.0 ppb V-264641
5 -006				CCV 20.0 ppb V-264642
6 -008				
7 -010				
8 -012				Balance used: N/A
9 00296-012				Pipettes used: 132, 135, 150, 121
10 00298-002				
11 00319-002				Hot Block used: 7
12 00328-001				
13 00316-026				
14 -027				
15 -028				
16 00350-003				
17 -005				
18 00366-001				
19 V-264501				
20				

Lot Numbers	Acid	Volume (mL)		Lot #
$KMnO_4$: V-264407	HNO_3	0.625ML		V- 11137
$K_2S_2O_8$: V-264408	HCl			V-
NH_2OH: V-264409	H_2SO_4	1.25ML		V- 11059
	Aqua Regia			V-

**Block Temp.: °C	92.3
Time In Block:	10:00
Time Out of Block:	12:00

Spike Volume & Lot #

☐ LCS V-264601 0.15g / 0.25 ml

☐ MS V-264601 0.250 ml

☐ Standards/Control Batch B-23789

Start time: 9:00 End Time: 12:00

**Temperature
245.1 / 7470A: 90-95C
7471B : 92-98C

Relinquished By: [illegible]

*25 mLs of each standard was digested with this batch using the same reagents and at the same time as the above samples. The preparation of each standard may be referenced in Veriprog using the standard batch number and the corresponding V #s.

HG PREP 2016

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP2A\T21534B2.txt

Analysis Date: 10/04/17 **Instrument:** PEICP2A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-261851	1	CAL	14:41	1							V-261851(ICB/CCB)
CALST1 V-263294	1	CAL	14:44	2							V-263294(ICS1 Lowest std)
CALST2 V-263538	1	CAL	14:47	3							V-263538(ICS2- Low Std)
CALST3 V-263925	1	CAL	14:50	4							V-263925(ICS3 - Middle Std)
CALST4 V-263540	1	CAL	14:55	5							V-263540(ICS4 High std)
ICS3 V-263925	1	ICS	15:00	6							V-263925(ICS3 - Middle Std)
ICV V-263834	1	ICV	15:05	7							V-263834(CCV)
LLICV [leach] V-260724	1	LLICV	15:10	8		TCLP	TCLP	SW846	62637		V-260724(LLICV/CCV leachate)
ICB V-261851	1	ICB	15:13	9							V-261851(ICB/CCB)
ICSA V-263927	1	ICSA	15:16	10							V-263927(ICSA)
ICSAB V-263293	1	ICSAB	15:22	11							V-263293(ICSAB)
MB 62637 (1)	1	MB	15:27	12		TCLP	TCLP	SW846	62637		0
LCSW 62637	1	LCS	15:31	13		TCLP	TCLP	SW846	62637		0
LCSW MR 62637	1	LCS	15:35	14		TCLP	TCLP	SW846	62637		0
AD00292-002	1	SMP	15:40	15	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-002	1	MR	15:44	16		TCLP	TCLP	SW846	62637		0
AD00292-002	1	MS	15:48	17		TCLP	TCLP	SW846	62637		0
AD00292-002	1	PS	15:53	18		TCLP	TCLP	SW846	62637		0
AD00292-002	5	SD	15:58	19		TCLP	TCLP	SW846	62637		0
CCV V-263834	1	CCV	16:02	20							V-263834(CCV)
LLCCV [leach] V-260724	1	LLCCV	16:07	21		TCLP	TCLP	SW846	62637		V-260724(LLICV/CCV leachate)
CCB	1	CCB	16:10	22							0
AD00291-001	1	SMP	16:13	23	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00328-001	1	SMP	16:17	24	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00316-026	1	SMP	16:21	25	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00316-027	1	SMP	16:25	26	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00316-028	1	SMP	16:29	27	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00298-002	1	SMP	16:32	28	METALS-TCLP	TCLP	TCLP	SW846	62637		0
EF-V-264501	1	EF	16:36	29		TCLP	TCLP	SW846	62637		V-264501(EF-1 WARNING)
ICSA V-263927	1	ICSA	16:40	30							V-263927(ICSA)
ICSAB V-263293	1	ICSAB	16:45	31							V-263293(ICSAB)
CCV V-263834	1	CCV	16:51	32							V-263834(CCV)
LLCCV [leach] V-260724	1	LLCCV	16:56	33		TCLP	TCLP	SW846	62637		V-260724(LLICV/CCV leachate)
CCB	1	CCB	16:59	34							0
AD00291-002	1	NA	17:02	35	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-004	1	NA	17:06	36	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-006	1	NA	17:10	37	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-008	1	NA	17:13	38	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-010	1	NA	17:17	39	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-012	1	NA	17:20	40	METALS-TCLP	TCLP	TCLP	SW846	62637		0
AD00296-012	1	NA	17:24	41	METALS-TCLP	TCLP	TCLP	SW846	62637		0
ICSA V-263927	1	ICSA	17:27	42						failed	V-263927(ICSA)

Comments/Reviewedby:

OLUFEMI
192 168 1 89 10/4/2017 5:08:29 PM

RUN IS OK
All elements reported

10/10/17

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\HGCV2A\H21534T.txt

Analysis Date: 10/04/17

Instrument: HGCV2A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
Calibration Blank	1	CAL	17:32	1							0
.2 PPB	1	CAL	17:33	2							0
.5 PPB	1	CAL	17:35	3							0
1 PPB	1	CAL	17:37	4							0
2 PPB	1	CAL	17:39	5							0
5 PPB	1	CAL	17:41	6							0
10 PPB	1	CAL	17:43	7							0
25 PPB	1	CAL	17:45	8							0
ICV (2)	1	ICV	17:48	9							0
ICB	1	ICB	17:50	10							0
MB 62637 (1)	1	MB	17:51	11	HG-TCLP	TCLP	TCLP	SW846	62637		0
LCSW 62637	1	LCS	17:53	12	HG-TCLP	TCLP	TCLP	SW846	62637		0
LCSW MR 62637	1	LCS	17:56	13	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-002	1	SMP	17:58	14	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-002	1	MR	18:00	15	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-002	1	MS	18:02	16	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00298-002	1	SMP	18:04	17	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00328-001	1	SMP	18:06	18	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00316-026	1	SMP	18:08	19	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00316-027	1	SMP	18:09	20	HG-TCLP	TCLP	TCLP	SW846	62637		0
CCV	1	CCV	18:11	21							0
CCB	1	CCB	18:13	22							0
AD00316-028	1	SMP	18:15	23	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00291-001	1	SMP	18:17	24	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00291-002	1	SMP	18:19	25	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-004	1	SMP	18:21	26	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-006	1	SMP	18:23	27	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-008	1	SMP	18:25	28	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-010	1	SMP	18:27	29	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00292-012	1	SMP	18:29	30	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00296-012	1	SMP	18:30	31	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00319-002	1	SMP	18:32	32	HG-TCLP	TCLP	TCLP	SW846	62637		0
CCV	1	CCV	18:34	33							0
CCB	1	CCB	18:36	34							0
AD00350-003	1	SMP	18:38	35	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00350-005	1	SMP	18:40	36	HG-TCLP	TCLP	TCLP	SW846	62637		0
AD00366-001	1	SMP	18:42	37	HG-TCLP	TCLP	TCLP	SW846	62637		0
EF-V-264501	1	EF	18:44	38		TCLP	TCLP	SW846	62637		V-264501(EF-1 WARNING)
CCV	1	CCV	18:46	39							0
CCB	1	CCB	18:48	40							0

Comments/Reviewedby:

olufemi
192.168.1.25 10/4/2017 7:23:35 PM

RUN IS OK

10/9/17

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

V-264640

Wet Chemistry Data

VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD00298-002
Matrix Soil
Client SampleID: 475 EXTERIOR NYRECY

Project Number: 7092827
Received Date: 9/28/2017
Collect Date: 9/28/2017

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Cyanide (Reactive)	CN-REACTIVE	1	ND	mg/Kg	0.50	10/03/17	10/03/17
Sulfide (Reactive)	S-REACTIVE	1	ND	mg/kg	100	10/03/17	10/03/17

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 7092827**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD00298-001	475 EXTERIOR N	Soil/Terracore	1	91	Percent			09/29/17	09/28/17	09/28/17
AD00298-002	475 EXTERIOR N	Aqueous	1	92	Percent			09/29/17	09/28/17	09/28/17

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-7155

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD00299-004	69	68.57888	Percent	1.36	9.03	6.62	09/29/17	jessica	4.2	5
Sample	AD00268-002	98	97.72296	Percent	1.35	11.89	11.65	09/29/17	jessica		
Sample	AD00292-012	86	86.01472	Percent	1.38	10.89	9.56	09/29/17	jessica		
Sample	AD00298-001	91	91.08159	Percent	1.35	11.89	10.95	09/29/17	jessica		
Sample	AD00299-004	72	71.52062	Percent	1.36	9.12	6.91	09/29/17	jessica		
Sample	AD00299-005	78	77.99443	Percent	1.36	8.54	6.96	09/29/17	jessica		
Sample	AD00299-006	64	64.31479	Percent	1.38	8.75	6.12	09/29/17	jessica		
Sample	AD00299-007	64	64.40972	Percent	1.35	7.11	5.06	09/29/17	jessica		
Sample	AD00298-002	92	92.02966	Percent	1.37	12.16	11.29	09/29/17	jessica		
Sample	AD00306-001	82	81.64094	Percent	1.35	13.66	11.40	09/29/17	jessica		
Sample	AD00306-002	87	87.10504	Percent	1.35	13.06	11.54	09/29/17	jessica		
Sample	AD00306-003	84	84.47099	Percent	1.35	13.07	11.25	09/29/17	jessica		
Sample	AD00306-004	84	84.25414	Percent	1.35	12.21	10.50	09/29/17	jessica		
Sample	AD00306-005	86	85.52515	Percent	1.35	12.68	11.04	09/29/17	jessica		
Sample	AD00306-006	80	80.04315	Percent	1.36	10.63	8.78	09/29/17	jessica		
Sample	AD00306-007	83	83.03477	Percent	1.34	10.83	9.22	09/29/17	jessica		
Sample	AD00306-008	84	83.71336	Percent	1.35	10.56	9.06	09/29/17	jessica		
Sample	AD00306-009	84	84.05694	Percent	1.36	15.41	13.17	09/29/17	jessica		
Sample	AD00306-010	83	83.14176	Percent	1.35	14.40	12.20	09/29/17	jessica		
Sample	AD00297-002	88	88.24663	Percent	1.36	11.74	10.52	09/29/17	jessica		

* - Indicates Failed Rpd Criteria

MS/MSD/DUP Recovery

7092827 0255

Prep Batch: S-1091 Sample ID: AD00291-001
Method: SW846 7.3.3 Matrix: Soil

Qc Type: MS		Limits			MS	Sample			MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov		Dil	Conc	Conc	% Rec	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Cyanide (Reactive)	0.4	75-125		1	0.4153	0	104		20171003135	13	10/03/17 14:21	20171003135	15	10/03/17 14:25

Qc Type: MSD		Limits			MSD	Sample			MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Rpd	Dil	Conc	Conc	% Rec	Rpd	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Cyanide (Reactive)	0.4	75-125	20	1	0.3907	0	98	6.1		20171003135	14	10/03/17 14:23	20171003135	15	10/03/17 14:25

LCS Recoveries

BatchRunID/RunID:====>				201710031353-12								
QcBatchID:====>				LCSS-1091								
Date/Time:====>				10/03/17 14:18								
Analytical Method:====>				SW846 7.3.3								
Matrix:====>				Soil		Soil		Soil		Soil		Soil
Analyte	SW846 7.3. Amt	Limits	Amt	Limits	% Rec	Flags	% Rec	Flags	% Rec	Flags	% Rec	Flags	% Rec	Flags
Cyanide (Rea	0.4	75-125			101									

Calibration Summary:

7092827 0257

Instrument: DA1
Analysis Meth: SW846 7.3.3

Analyte	Batch ID	Run#	Qc Type	Recov	Spk Amt	Limit
Cyanide (Reactive)	20171003135	9	ICV	99	0.4	90-110
Cyanide (Reactive)	20171003135	21	CCV	103	0.4	90-110
Cyanide (Reactive)	20171003135	33	CCV	103	0.4	90-110
Cyanide (Reactive)	20171003135	39	CCV	100	0.4	90-110

Blank Summary

Instrument: DA1

Qc Type: Method Blank Summary Prep Date: 10/3/17

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20171003135	10/3/17 14:16	MBS-1091	11	Cyanide (	ND	0.50

Qc Type: ICB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20171003135	10/3/17 14:14	CCB	10	Cyanide (	ND	0.020

Qc Type: CCB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20171003135	10/3/17 14:42	CCB	22	Cyanide (	ND	0.020
20171003135	10/3/17 15:10	CCB	34	Cyanide (	ND	0.020
20171003135	10/3/17 15:20	CCB	40	Cyanide (	ND	0.020

Analysis Type: RS

7092827 0259

Batch Number: RS-1091

Units: mg/kg

Qc Summary Results

Qc Type	Qc Name	SpkAmt	Rec Lim	Rpd Lim	Raw Result	Recov	Rpd	Flags
CAL-01	CAL-01-10/03/17	16	90-110	NA	16.8315	105	NA	
LCS	LCS	400	75-125	NA	410.76875	103	NA	
MS	AD00291-001	400	75-125	NA	430.80625	108	NA	
MSD	AD00291-001	400	75-125	20	440.825	110	2.3	

Calibration Curve Information

Analytical Method(s)

SW846 7.3.4

Sam #	Type	MB	Result	RL	Per Sol	Full Result	Titr Vol	Iod Vol	DF	Sam Wt (g)	Scrb Vol (ml)	Prep Date	Prep By	Anal Date	Anal By
CAL-01-10/03/17	CAL-01		17		100	16.831	5.8	10	1	250	250			10/03/17	JMP
MB-1-10/03/17	MB	MB-1-10/03/17	ND	100	100	10.019	9.9	10	1	10	250	10/03/17	JMP	10/03/17	JMP
LCS	LCS	MB-1-10/03/17	410	100	100	410.77	5.9	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00291-001	MS	MB-1-10/03/17	430	100	73	430.81	5.7	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00291-001	MSD	MB-1-10/03/17	440	100	73	440.82	5.6	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00291-001	Sample	MB-1-10/03/17	ND	100	73	10.019	9.9	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00291-002	Sample	MB-1-10/03/17	ND	100	80	20.038	9.8	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00292-002	Sample	MB-1-10/03/17	ND	100	89	40.075	9.6	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00292-004	Sample	MB-1-10/03/17	ND	100	86	30.056	9.7	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00292-006	Sample	MB-1-10/03/17	ND	100	86	20.038	9.8	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00292-008	Sample	MB-1-10/03/17	ND	100	85	10.019	9.9	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00292-010	Sample	MB-1-10/03/17	ND	100	88	10.019	9.9	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00292-012	Sample	MB-1-10/03/17	ND	100	86	30.056	9.7	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00296-012	Sample	MB-1-10/03/17	ND	100	92	50.094	9.5	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00298-002	Sample	MB-1-10/03/17	ND	100	92	20.038	9.8	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00316-026	Sample	MB-1-10/03/17	ND	100	90	30.056	9.7	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00316-027	Sample	MB-1-10/03/17	ND	100	93	20.038	9.8	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00316-028	Sample	MB-1-10/03/17	ND	100	88	20.038	9.8	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00319-002	Sample	MB-1-10/03/17	ND	100	91	40.075	9.6	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00331-002	Sample	MB-1-10/03/17	ND	100	83	10.019	9.9	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00331-004	Sample	MB-1-10/03/17	ND	100	84	30.056	9.7	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00328-001	Sample	MB-1-10/03/17	ND	100	100	40.075	9.6	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00350-003	Sample	MB-1-10/03/17	ND	100	90	10.019	9.9	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00350-005	Sample	MB-1-10/03/17	ND	100	91	20.038	9.8	10	1	10	250	10/03/17	JMP	10/03/17	JMP
AD00366-001	Sample	MB-1-10/03/17	ND	100	100	20.038	9.8	10	1	10	250	10/03/17	JMP	10/03/17	JMP

JMP 10/3/17

JW 10/4/17

Flag Codes: Ra - Recovery failed specified criteria (PVS/LCS/MS/MSD/ICV/CAL)
Na - Not Applicable
Rp - RPD failed specified criteria.
Nc - Not Checked ..either one or both values =ND

Miscellaneous Data

Hampton-Clarke

ZERO HEADSPACE EXTRACTION- SAMPLE ENTRY

Sample ID	Vessel #	Initial Pressure	Final Pressure	Ext. Fluid #	Wt./Vol. Of Sample	Start Date	Start Time	Finish Date	Finish Time	Ext. Type *	pH of HCl preserv vial	Analyst(s)	Transfer To**	Transfer To**	Comments
EF-3 10896	#17	10	10	EF-3 10896	500ml	9/28/17	4:15	9/29/17	9:39	SPLP	<2	SP			
AD 00289 -001	#08	↓	↓	↓	25g/500ml	↓	↓	↓	↓	↓	↓	↓			
-002	#15	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
-003	#18	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
-004	#21	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
-005	#20	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
-006	#13	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
-007	#22	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
-008	#23	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
-009	#14	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			
EF-1 264202	#34	10	10	EF-1 264202	500ml	9/29/17	4:15	9/30/17	12:15	TCLP	<2	SP			
AD 00297 -001	#28	↓	↓	↓	↓	↓		↓	↓	↓	↓	↓			
AD 00298 -001	#11	↓	↓	↓	↓	↓		↓	↓	↓	↓	↓			

*Ext. Type TCLP=T ASTM=A SPLP=S MEP = M
** Initials of person taking custody of extractions

Hampton-Clarke, Inc.

LEACHATE PREPARATION LOG
(TCLP, SPLP)

Start Date: 10/2/17 Time 13:22 Finish Date: 10/3/17

**TCLP Ext. Fluid #1 pH: 4.89 (criteria: 4.93 ± 0.5)
**TCLP Ext. Fluid #2 pH: (criteria: 2.88 ± 0.05)
**SPLP Ext. Fluid #3 pH: 4.20 (criteria: 4.20 ± 0.5)

Sample #	pH (units)	pH in HCL (units)	Final pH (units)	Ext. Fluid (number)	Wt./Vol of Sample (g or mL)	Start Time	Finish Time	Filter Time	Analyst (s)	Ext. Type*	Comments
00162 - 002	—	—	7.26	SPLP 264500	150g/3L	17:00	9:45	10:15	ER	P	Balance ID: 037 Metals & Org.
00162 - 005	—	—	7.81					10:35			pH Meter ID: D38/68
00162 - 003	—	—	7.72		100g/2L			10:45			Metals only
00162 - 004	—	—	7.55					10:15			Organics only.
00162 - 008	—	—	7.31					11:20			Metals only.
00162 - 009	—	—	7.64					10:45			
SPLP 264500	4.20	—	10.12		3L			10:10		T	Metals & Org.
00291 - 001	6.85	1.56	5.04	EFI 264501	150g/3L			2:30			
- 002	7.07	1.58	5.09					3:00			
00292 - 002	9.25	1.82	5.70		100g/2L			12:00			Metals only.
- 004	9.66	1.81	5.75					12:00			
- 006	9.55	1.82	5.43					11:40			
- 008	9.74	1.82	5.22					11:40			
- 010	9.18	1.81	5.19					1:20			
- 012	9.21	1.82	5.61					1:20			
00296 - 012	8.73	1.69	5.11					1:30			
00319 - 002	9.61	1.79	5.59		150g/3L			2:30			Metals & Org.
00328 - 001	10.04	1.86	5.81		100g/2L			11:30			Metals only.
00316 - 026	7.87	1.63	5.03					11:30			
- 027	7.44	1.62	5.01					11:30			
- 028	7.81	1.65	5.02					11:45			
00370 - 003	8.87	1.68	5.17		150g/3L			1:50			Metals & Org.
- 005	8.95	1.69	5.18					1:40			
EFI 264501	4.89	—	5.00		3L			10:10			

* Ext. Type: TCLP = T (Method 1311) LAMP=L (Methods 1311 / ANSI/NEMA C78.LL 1256-2003)
SPLP = P (Method 1312) MEP=M (Method 1320)
ZHE = Z (Method 1311/1312)

** The pH of the extraction fluid must be checked prior to use and must be within limits specified above

7092827 0263

Hampton-Clarke, Inc.

LEACHATE PREPARATION LOG
(TCLP, SPLP)

Start Date: 10/2/17 TIME 13:22 Finish Date: 10/3/17

**TCLP Ext. Fluid #1 pH: 4.89 (criteria: 4.93 ± 0.5)
**TCLP Ext. Fluid #2 pH: _____ (criteria: 2.88 ± 0.05)
**SPLP Ext. Fluid #3 pH: _____ (criteria: 4.20 ± 0.5)

Sample #	pH (units)	pH in HCL (units)	Final pH (units)	Ext. Fluid (number)	Wt./Vol of Sample (g or mL)	Start Time	Finish Time	Filter Time	Analyst (s)	Ext. Type*	Comments
00298-002	8.64	1.59	5.09	Ef1264501	100g/2L	17:00	9:45	10:15	GR	T	Balance ID: 037 Metals only
											pH Meter ID: B38168

* Ext. Type: TCLP = T (Method 1311) LAMP=L (Methods 1311 / ANSI/NEMA C78.LL 1256-2003)
SPLP = P (Method 1312) MEP=M (Method 1320)
ZHE = Z (Method 1311/1312)

** The pH of the extraction fluid must be checked prior to use and must be within limits specified above

Leachate prep log 2017]

Subcontracted Data

This is the last page of the data generated by Hampton-Clarke.
The following pages were submitted to HC by subcontracted laboratories.

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Environmental

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ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Hampton-Clarke Veritech
175 Route 46 West
Fairfield NJ 07004

Report Date: October 23, 2017 14:39

Project: 7092827

Account #: 10819
Group Number: 1857935
SDG: VRU58
PO Number: 7092827
State of Sample Origin: NY

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To Hampton-Clarke Veritech Attn: Reporting

Respectfully Submitted,

Lyssa M. Longenecker

Lyssa M. Longenecker
Specialist

(717) 556-7321

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
AD00298-002 Composite Soil	09/28/2017 14:00	9242194

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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Analysis Report

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Sample Description: **AD00298-002 Composite Soil**
475 Exterior NYRecycle Comp

Project Name: **7092827**

Submittal Date/Time: 10/03/2017 09:35
Collection Date/Time: 09/28/2017 14:00
SDG#: VRU58-01

Hampton-Clarke Veritech
ELLE Sample #: SW 9242194
ELLE Group #: 1857935
Matrix: Soil

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Pesticides		**SW-846 8141B**	**ug/kg**	**ug/kg**	
10594	Ethyl Parathion	56-38-2	N.D. D1	25	1
10594	Methyl Parathion	298-00-0	N.D. D1	25	1
Wet Chemistry		**SM 2540 G-1997 %Moisture Calc**	**%**	**%**	
00111	Moisture	n.a.	11.5	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

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Analysis Report

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Sample Description: AD00298-002 Composite Soil
475 Exterior NYRecycle Comp

Project Name: 7092827

Submittal Date/Time: 10/03/2017 09:35
Collection Date/Time: 09/28/2017 14:00
SDG#: VRU58-01

Hampton-Clarke Veritech
ELLE Sample #: SW 9242194
ELLE Group #: 1857935
Matrix: Soil

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL	Dilution Factor
Dioxins/Furans	**SW-846 8290A Feb 2007 Rev 1**		ng/kg	ng/kg	
12937	2378-TCDD	1746-01-6	0.122 JQ	0.108	1
12937	2378-TCDF	51207-31-9	0.678 JQ	0.108	1
12937	12378-PeCDF	57117-41-6	0.761 J	0.432	1
12937	23478-PeCDF	57117-31-4	1.82 J	0.324	1
12937	123478-HxCDF	70648-26-9	1.13 J	0.324	1
12937	123678-HxCDF	57117-44-9	0.838 JQ	0.324	1
12937	123789-HxCDF	72918-21-9	N.D.	0.540	1
12937	234678-HxCDF	60851-34-5	1.43 J	0.324	1
12937	1234678-HpCDF	67562-39-4	8.63	0.324	1
12937	1234789-HpCDF	55673-89-7	0.833 J	0.432	1
12937	OCDF	39001-02-0	19.3	0.540	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	88	40 - 135
13C12-12378-PeCDD	77	40 - 135
13C12-123478-HxCDD	85	40 - 135
13C12-123678-HxCDD	83	40 - 135
13C12-123789-HxCDD	82	40 - 135
13C12-1234678-HpCDD	61	40 - 135
13C12-OCDD	44	40 - 135
13C12-2378-TCDF	92	40 - 135
13C12-12378-PeCDF	82	40 - 135
13C12-23478-PeCDF	80	40 - 135
13C12-123478-HxCDF	86	40 - 135
13C12-123678-HxCDF	88	40 - 135
13C12-234678-HxCDF	85	40 - 135
13C12-123789-HxCDF	87	40 - 135
13C12-1234678-HpCDF	67	40 - 135
13C12-1234789-HpCDF	58	40 - 135
13C12-OCDF	43	40 - 135

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Reporting Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*
S	*Saturation of detection signal*

EDL = Estimated Detection Limit

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Analysis Report

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Sample Description: **AD00298-002 Composite Soil**
475 Exterior NYRecycle Comp

Project Name: **7092827**

Submittal Date/Time: 10/03/2017 09:35
Collection Date/Time: 09/28/2017 14:00
SDG#: VRU58-01

Hampton-Clarke Veritech
ELLE Sample #: SW 9242194
ELLE Group #: 1857935
Matrix: Soil

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10594	OP Pesticides in Soils	SW-846 8141B	1	172770023A	10/09/2017 20:24	Richard A Shober	1
11133	OP Pest Soils Update IV Ext	SW-846 3540C	1	172770023A	10/05/2017 15:15	Kelli M Barto	1
12937	Dioxins/Furans in Solids-8290	SW-846 8290A Feb 2007 Rev 1	1	17282009	10/21/2017 19:41	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	SW-846 8290A Feb 2007 Rev 1	1	17282009	10/10/2017 08:25	Alex L Barton	1
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	17277820006B	10/04/2017 09:42	Larry E Bevins	1

EDL = Estimated Detection Limit

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Quality Control Summary

Client Name: Hampton-Clarke Veritech
Reported: 10/23/2017 14:39

Group Number: 1857935

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL
	ug/kg	ug/kg
Batch number: 172770023A	Sample number(s): 9242194	
Ethyl Parathion	N.D.	22
Methyl Parathion	N.D.	22

Analysis Name	Result	EDL
	ng/kg	ng/kg
Batch number: 17282009	Sample number(s): 9242194	
2378-TCDD	N.D.	0.100
2378-TCDF	N.D.	0.100
12378-PeCDF	N.D.	0.400
23478-PeCDF	N.D.	0.300
123478-HxCDF	N.D.	0.300
123678-HxCDF	N.D.	0.300
123789-HxCDF	N.D.	0.500
234678-HxCDF	N.D.	0.300
1234678-HpCDF	N.D.	0.300
1234789-HpCDF	N.D.	0.400
OCDF	N.D.	0.500

LCS/LCSD

Analysis Name	LCS Spike Added ug/kg	LCS Conc ug/kg	LCSD Spike Added ug/kg	LCSD Conc ug/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 172770023A	Sample number(s): 9242194								
Ethyl Parathion	402	464.33			116*		81-115		
Methyl Parathion	400	460.93			115		81-115		
	%	%	%	%					
Batch number: 17277820006B	Sample number(s): 9242194								
Moisture	89.5	89.42			100		99-101		

Analysis Name	OPR Spike Added ng/kg	OPR Conc ng/kg	OPRD Spike Added ng/kg	OPRD Conc ng/kg	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 17282009	Sample number(s): 9242194								
2378-TCDD	20	19.83			99		67-158		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

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Quality Control Summary

Client Name: Hampton-Clarke Veritech
Reported: 10/23/2017 14:39

Group Number: 1857935

OPR/OPRD (continued)

Analysis Name	OPR Spike Added ng/kg	OPR Conc ng/kg	OPRD Spike Added ng/kg	OPRD Conc ng/kg	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
2378-TCDF	20	22.05			110		75-158		
12378-PeCDF	100	107.15			107		80-134		
23478-PeCDF	100	101.92			102		68-160		
123478-HxCDF	100	106.39			106		72-134		
123678-HxCDF	100	104.22			104		84-130		
123789-HxCDF	100	102.83			103		78-130		
234678-HxCDF	100	102.21			102		70-156		
1234678-HpCDF	100	99.64			100		82-122		
1234789-HpCDF	100	103.66			104		78-138		
OCDF	200	215.58			108		63-170		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/kg	MS Spike Added ug/kg	MS Conc ug/kg	MSD Spike Added ug/kg	MSD Conc ug/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 172770023A	Sample number(s): 9242194 UNSPK: P241510									
Ethyl Parathion	N.D.	400	401.58	402	418.76	100	104	81-115	4	35
Methyl Parathion	N.D.	398	387.38	399	403.02	97	101	81-115	4	35

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc %	DUP Conc %	DUP RPD	DUP RPD Max
Batch number: 17277820006B	Sample number(s): 9242194 BKG: P235022			
Moisture	25.29	24.69	2	5

Surrogate Quality Control

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Quality Control Summary

Client Name: Hampton-Clarke Veritech
Reported: 10/23/2017 14:39

Group Number: 1857935

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report. For dual column analyses, the surrogate (at least one surrogate for multi-surrogate tests) must be within the acceptance limits on at least one of the two columns.

Analysis Name: OP Pesticides in Soils
Batch number: 172770023A

	2-Nitro-m-xylene-D1	2-Nitro-m-xylene-D2
9242194	92	92
Blank	98	94
LCS	111	106
MS	89	86
MSD	93	90
Limits:	61-142	61-142

Analysis Name: Dioxins/Furans in Solids-8290
Batch number: 17282009

	13C12-2378-TCDD	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD	13C12-123789-HxCDD	13C12-1234678-HpCDD
9242194	88	77	85	83	82	61
Blank	54	56	68	71	68	75
OPR	50	57	63	65	62	67
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF
9242194	44	92	82	80	86	88
Blank	83	57	65	61	61	72
OPR	71	50	60	52	53	69
Limits:	40-135	40-135	40-135	40-135	40-135	40-135

	13C12-234678-HxCDF	13C12-123789-HxCDF	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF
9242194	85	87	67	58	43
Blank	66	66	96	61	67
OPR	56	48	88	46	49
Limits:	40-135	40-135	40-135	40-135	40-135

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

CHAIN OF CUSTODY RECORD

A# 10819 G#1857935
S# 9242194

Hampton-Clarke, Inc.
175 US Hwy 46 West
Fairfield, New Jersey, 07004
Ph:800-426-9992 Fax:973-439-1458

Report To:
Hampton-Clarke, Inc.:
Attn:Reporting
175 Route 46 West
Fairfield, New Jersey 07004

Invoice To:
Hampton-Clarke, Inc.:
Attn:Accounting
175 Route 46 West
Fairfield, New Jersey 07004

Project #: 7092827

CocID#: 5558

FINAL RESULTS TO: subresults@hcvlab.com
PRELIM/VERBAL RESULTS TO: subresults@hcvlab.com

EDD: NEW JERSEY HAZRESULT OR EQUIS EZEDD REQUIRED FOR ALL DATA SUBMITTALS!

Turn Around Time: ~~1 week~~ 4-days **Preliminary Due Date:** 10/9/2017
Report Type: NYDOH-R (REDUCED) **Hard Copy Due Date:** 10/23/2017

Sample Number:	Client ID	Matrix:	Date Collected:	Time Collected:	Analysis Requested
AD00298-002	475 EXTERIOR NYRECYCLE COMP	Soil	9/28/2017	2:00:00 PM	Organophosphorous Pesticides 8141:(Analysis Method:EPA 8141)
AD00298-002	475 EXTERIOR NYRECYCLE COMP	Soil	9/28/2017	2:00:00 PM	Dioxins/Furans 8290:(Analysis Method:EPA 8290)

Relinquished By:	Accepted By:	Date:	Time:	Comments, Notes, Special Requirements, HAZARDS
[signature]	UPS	10/2/17	1700	EPA 8141 - Methyl / Ethyl Parathion only DTW 10/2/17 EPA 8290 - 2,3,7,8 TCDD & PCDF only Polychlorinated dibenzo-furans
	[signature]	10/3/17	0935	Cooler Temp: 2.2°C

HC Lab Use Only: Subcontracted Lab Id and Contact: Lancaster, Angela Miller, (717) 556-7260, LabID: H, 2425 New Holland Pike, , Lancaster, PA, 17601

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Sample Administration Receipt Documentation Log

Doc Log ID: 196157

Group Number(s): 1857935

Client: HAMPTON-CLARKE, INC. ;

Delivery and Receipt Information

Delivery Method:	UPS	Arrival Timestamp:	10/03/2017 9:35
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	NJ		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Ruth Shank (12390) at 12:13 on 10/03/2017

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	32170023	2.2	IR	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

Conrad Burkholder

From: Stacy Hess
Sent: Tuesday, October 03, 2017 2:43 PM
To: Conrad Burkholder; !us19_dp39_Unassigned
Subject: RE: TAT and Data Package Question

Hi Conrad- Please enter as N-8. We notified the client that we are unable to offer an expedited TAT at this time. I'm not certain about the DP, we will have to confirm with the client. Please enter with an SDG code, and we will update with the DP scans if the client determines one is needed.

Thanks,
Stacy

-----Original Message-----
From: Conrad Burkholder
Sent: Tuesday, October 03, 2017 2:39 PM
To: !us19_dp39_Unassigned
Subject: FW: TAT and Data Package Question

Hello,

Is the TAT correct for this? Also, does this require a data package?

Thanks,
Conrad

-----Original Message-----
From: 42Scanmer@lancasterlabs.com [mailto:42Scanmer@lancasterlabs.com]
Sent: Tuesday, October 03, 2017 2:29 PM
To: Conrad Burkholder
Subject:

This E-mail was sent from "RNP0966B2" (MP 2851/LD528).

Scan Date: 10.03.2017 14:28:54 (-0400)
Queries to: 42Scanmer@lancasterlabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mg**	milligram(s)
C	degrees Celsius	**mL**	milliliter(s)
cfu	colony forming units	**MPN**	Most Probable Number
CP Units	cobalt-chloroplatinate units	**N.D.**	non-detect
F	degrees Fahrenheit	**ng**	nanogram(s)
g	gram(s)	**NTU**	nephelometric turbidity units
IU	International Units	**pg/L**	picogram/liter
kg	kilogram(s)	**RL**	Reporting Limit
L	liter(s)	**TNTC**	Too Numerous To Count
lb.	pound(s)	**µg**	microgram(s)
m3	cubic meter(s)	**µL**	microliter(s)
meq	milliequivalents	**umhos/cm**	micromhos/cm

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Lancaster Laboratories Environmental

Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

APPENDIX K

Manifests for Imported Fill from New York Recycling

Date	Manifest No.	License Plate No.	Weight (estimated)
11/27/2017	51001	25623MK	18 cubic yards
11/27/2017	51002	25623MK	18 cubic yards
11/27/2017	51003	25623MK	18 cubic yards
11/27/2017	51004	25623MK	18 cubic yards
11/27/2017	51005	69405ME	18 cubic yards
11/27/2017	51006	69405ME	18 cubic yards
11/27/2017	51007	69405ME	18 cubic yards
11/27/2017	51009	69405ME	18 cubic yards
11/27/2017	51010	69405ME	18 cubic yards
11/27/2017	51011	69405ME	18 cubic yards
11/27/2017	51012	69405ME	18 cubic yards
11/27/2017	51013	25623MK	18 cubic yards
11/27/2017	51014	25623MK	18 cubic yards
11/27/2017	51016	25623MK	18 cubic yards
11/30/2017	51015	25623MK	18 cubic yards
11/30/2017	51030	25623MK	18 cubic yards
11/30/2017	51031	25623MK	18 cubic yards
11/30/2017	51032	25623MK	18 cubic yards
11/30/2017	51033	69405ME	18 cubic yards
11/30/2017	51034	69405ME	18 cubic yards
11/30/2017	51035	69405ME	18 cubic yards
11/30/2017	51036	69405ME	18 cubic yards
11/30/2017	51037	69405ME	18 cubic yards
11/30/2017	51038	69405ME	18 cubic yards
11/30/2017	51039	69405ME	18 cubic yards
11/30/2017	51042	69405ME	18 cubic yards
12/04/2017	51017	69405ME	18 cubic yards
12/04/2017	51018	69405ME	18 cubic yards
12/04/2017	51040	69405ME	18 cubic yards
12/04/2017	51046	69405ME	18 cubic yards
12/04/2017	51047	69405ME	18 cubic yards
12/04/2017	51048	69405ME	18 cubic yards
12/04/2017	51049	69405ME	18 cubic yards
12/05/2017	51019	69405ME	18 cubic yards
12/05/2017	51020	69405ME	18 cubic yards
12/05/2017	51021	69405ME	18 cubic yards
12/05/2017	51022	69405ME	18 cubic yards

12/05/2017	51023	69405ME	18 cubic yards
12/05/2017	51045	69405ME	18 cubic yards
12/07/2017	51043	69405ME	18 cubic yards
12/07/2017	51044	69405ME	18 cubic yards
12/07/2017	(unknown)	69405ME	18 cubic yards
12/07/2017	(unknown)	69405ME	18 cubic yards
12/07/2017	(unknown)	69405ME	18 cubic yards
12/07/2017	(unknown)	69405ME	18 cubic yards
12/07/2017	(unknown)	69405ME	18 cubic yards
12/08/2017	134314	69405ME	18 cubic yards
12/08/2017	134317	69405ME	18 cubic yards
12/08/2017	134327	69405ME	18 cubic yards
12/08/2017	134342	69405ME	18 cubic yards
12/08/2017	134348	69405ME	18 cubic yards
12/08/2017	134362	69405ME	18 cubic yards
12/08/2017	134369	69405ME	18 cubic yards
03/06/2018	51050	25263MK	18 cubic yards
03/06/2018	51051	25263MK	18 cubic yards
03/06/2018	51052	25263MK	18 cubic yards
03/06/2018	51053	25263MK	18 cubic yards
03/06/2018	51054	25263MK	18 cubic yards
03/06/2018	51055	25263MK	18 cubic yards
GRAND TOTAL	**59 LOADS**		**1,062 CUBIC YARDS**

№ 51001

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yanic Flores Company: TEV Trucking
Address: 19 Caleb's Path Central Islip NY Phone: (631) 213 1059 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St Bx NY 10451

Date: 11/27/17 Time: 6:10 AM Truck License Plate No.: 25623MK State: NY

Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: _____

Address: _____ Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fontanato Received:

Load Identifier: License No.: 25623 MK Load No.: 1 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Crushed Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51006

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Gomez Company: I.E.N. Trucking

Address: 13 Jeffe[illegible] Bronx Phone: (631) 812-1053 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 11 Oneill Ave Bay Shore

Date: 11/9/1[illegible] Time: 8:52 AM Truck License Plate No.: 6GHOE ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: _____

Address: _____ Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fontanato Received: 0600

Load Identifier: License No.: 69405 ME Load No.: 2 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51002

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yanic Fides Company: JEV Hauling

Address: 117 Caleb's Path Central Islip NY Phone: (631) 813 1059 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St, Bx NY 10451

Date: 11/27/17 Time: 8:40AM Truck License Plate No.: 25623MK State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☐ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: _____

Address: _____ Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received:

Load Identifier: License No.: 25623 MK Load No.: 3 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ Gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☐ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51005

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Cadena Company: I E V Trucking

Address: _____ Phone: (631) [illegible] Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: H Oneill Ave Bay Shore NY

Date: 11/27/17 Time: 6:12 AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: _____

Address: _____ Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 0930

Load Identifier: License No.: 69405 ME Load No.: 4 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51003

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yanic Flores Company: T L V trucking

Address: 97 Caleb's Path Central Islip ny Phone: (631) 231 1059 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St Bx ny 10451

Date: 11-27-17 Time: 10:00 AM Truck License Plate No.: 25623 MK State: ny

Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes ❑ No, If Yes, attach laboratory results
If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling

Address: 475 Exterior St. Bx NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1030

Load Identifier: License No.: 25623 MK Load No.: 5 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51009

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: [illegible] Cedeno Company: [illegible]

Address: [illegible] Phone: [illegible] Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx, NY 10451

Date: November 21, 2017 Time: 10 - 11 am Truck License Plate No.: 69405ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St. Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1040

Load Identifier: License No.: 69405 ME Load No.: 6 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ Gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51004

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____ *Driver's Signature*

PLEASE PRINT CLEARLY

Driver Name: Yanic Flores Company: T & V Hauling

Address: 197 Caleb's Path Central Islip NY Phone: (631) 813 1059 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior ST Bx NY 10451

Date: 11-21-17 Time: 10:57AM Truck License Plate No.: 25623MK State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St. Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1120

Load Identifier: License No.: 25623 MK Load No.: 7 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse-Fine sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51007

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Cabrera Company: I.C.V. Trucks

Address: 11 O'Neill Ave Tarrytown Phone: (631) [illegible] Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx 10451

Date: 11-27-17 Time: 11:17AM Truck License Plate No. 69405ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1140

Load Identifier: License No.: 69405ME Load No.: 8 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse-fine Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51013

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yonic Flores Company: ILV trucking
Address: 4 oneal Ave Bayshore ny Phone: 631 881 1059 Fax: ( )
Truck Loaded: Site Name: New york recycling Address: 475 Exterior ST Bx 10451
Date: 11-27-17 Time: 10 29pM Truck License Plate No. 25623 MK State: NY
Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC
Address: 475 Exterior St. Bronx, NY 10451 Block/Lot: _____
Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:
Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____
Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1250
Load Identifier: License No.: 25623 MK Load No.: 9 Estimated Volume: 18 *Cubic Yards*
Placed in Stockpile Bin No.
Basic Description Of Material: Brown coarse Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No. _____
Results Received By (Name): _____ Date: _____
Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51012

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Jonado Cadenc' Company: I & V Trucking

Address: 11 O'neill Ave Bay Shore Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 1175 Exterior Street, Bronx

Date: 11-27-17 Time: 12:31pM Truck License Plate No.: _____ State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 1175 Exterior Street, Bronx, Ny 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Portunato Received: 1255

Load Identifier: License No.: 69405 ME Load No.: 10 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51014

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Yaine Flores
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yaine Flores Company: I/V Trucking

Address: 4 Great Ave Freyshore, NY Phone: (631) 813 1059 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St Bx 10451

Date: 11.27.17 Time: 1:18 PM Truck License Plate No. 25623 State: NY

Estimated Volume Loaded: 18 Cy *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot:

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1340

Load Identifier: License No.: 25623 MK Load No.: 11 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ❑ Acceptable ❑ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51011

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Cardona Company: I.S.V. Trucking

Address: 11 O'neill Ave Bay Shore Phone: (718) 742-0755 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx, NY 10451

Date: 11-27-17 Time: 1:25pM Truck License Plate No.: 69405ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☐ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1345

Load Identifier: License No.: 69405 ME Load No.: 12 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Course Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☐ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51016

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yunic Flores Company: I EV trucking

Address: 4 Orced Ave Bayshore NY Phone: 631 813 Fax: ( )

Truck Loaded: Site Name: Newyork recycling Address: 475 Exterior St BX 10541

Date: 11.27.17 Time: 2:14pM Truck License Plate No: 25623 MK State: NY

Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fontanto Received: 1440

Load Identifier: License No.: 25623 MK Load No.: 13 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Crushed Stone w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51010

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Jonado Cadena Company: I E V Trucking

Address: Howell Lay Street Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 1175 Exterior St Bronx NY 10451

Date: 11-27-17 Time: 2:16pM Truck License Plate No.: 6XH 65 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 1175 Exterior Street Bronx NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 11/15

Load Identifier: License No.: 69405 NE Load No.: 14 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown color sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

VG #05-452082-1 W-270587

City of New York
Parks & Recreation

№ 51033

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: _____ Company: _____

Address: _____ Phone: ( ) _____ Fax: ( ) _____

Truck Loaded: Site Name: New York [illegible] Address: 475 Exterior St. Bx NY 10451

Date: 11/30/17 Time: 6:00 AM Truck License Plate No.: _____ State: NY

Estimated Volume Loaded: _____ *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: _____

Address: _____ Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 0700

Load Identifier: License No.: 64405 ME Load No.: 15 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown consistent Sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

VG #05-452082-1 W

City of New York
Parks & Recreation

№ 51034

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: [illegible] Company: T E V Trucking

Address: [illegible] Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address:

Date: 11/13/17 Time: 6:01 AM Truck License Plate No.: [illegible] State: NY

Estimated Volume Loaded: Bpd. *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling

Address: 415 Exterior St. Bronx, NY Block/Lot: TM# 13668

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 06:45

Load Identifier: License No.: 69405 NE Load No.: 16 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown fine sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

VG #05-452082-1 W-270587

№ 51015

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yunic Figes Company: T & V Trucking

Address: 1 Circle Ave Bayshore NY Phone: (631) 213 5910 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St Bx

Date: 11.29.17 Time: Truck License Plate No. 295623-MK State: NY

Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☐ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling

Address: 475 Exterior St. Bx NY 10451 Block/Lot: TK # 133563

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 0800

Load Identifier: License No.: 295623 MK Load No.: 17 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown [illegible] Sand w/ crushed gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☐ Acceptable ☐ Unacceptable Action: _____

VG #05-452082-1 W-270587

City of New York
Parks & Recreation

№ 51035

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: _____ Company: _____

Address: _____ Phone: ( ) _____ Fax: ( ) _____

Truck Loaded: Site Name: _____ Address: _____

Date: _____ Time: _____ Truck License Plate No.: _____ State: _____

Estimated Volume Loaded: _____ *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Beyfile
Address: 1115 Sylvester St. Bx, NY. 10454 Block/Lot: Tax #1332(6)

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fordunato Received: 0845

Load Identifier: License No.: 69405 NE Load No.: 18 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown coarse-fine sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

VG #05-452082-1 W-270587

City of New York
Parks & Recreation

№ 51036

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: [illegible] Company: J.F.V. Trucking

Address: [illegible] Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 175 Exterior Street Bronx, NY 10451

Date: 11-30-17 Time: 7:36AM Truck License Plate No.: [illegible] State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 175 Exterior Street Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 0935

Load Identifier: License No.: 64495-ME Load No.: 19 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown coarse-fine sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

VG #05-452082-1 W-270587

City of New York
Parks & Recreation

№ 51037

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Tomasz Cz[illegible] Company: T.E.V. Trucking

Address: [illegible] Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street Bronx, 10451

Date: 11-30-17 Time: 10:57 AM Truck License Plate No.: [illegible] State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: 0

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1045

Load Identifier: License No.: 64105 ME Load No.: 20 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown coarse-fine sand w/ crushed gravel
CRUSHED STONES/SANDY/LOAMY ETC NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

VG #05-452082-1 W-270587

City of New York
Parks & Recreation

№ 51030

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yonic Flores Company: JCV Trucking

Address: 4 Wood St Bayside Phone: (631) 212 5910 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St BX

Date: 11.20.17 Time: 11:00AM Truck License Plate No. 25623 NK State: NY

Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1130

Load Identifier: License No.: 295023 MA Load No.: 21 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown concrete sand w/ crushed gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

VG #05-452082-1 W-270587

City of New York
Parks & Recreation

№ 51038

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: _____ Company: _____

Address: _____ Phone: ( ) _____ Fax: ( ) _____

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St Bronx NY 10451

Date: 11-30-17 Time: 11:13AM Truck License Plate No.: _____ State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 11-15

Load Identifier: License No.: 69105 ME Load No.: 22 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown course-fine Sand w/ crushed stone
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

VG #05-452082-1 W-270587

City of New York
Parks & Recreation

№ 51031

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Jonic Flores Company: ITV Trucking

Address: 4 Great St Paterson Phone: 646 313 5910 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St

Date: 11-20-17 Time: 12:08 PM Truck License Plate No.: 25623 MK State: NY

Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1250

Load Identifier: License No.: 25623 MK Load No.: 23 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown coarse-fine Sand w/ crushed Stone

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

VG #05-452082-1 W-2/0587

City of New York
Parks & Recreation

№ 51039

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: [illegible] Company: [illegible]

Address: [illegible] Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St Bronx

Date: 11-30-17 Time: 12:31PM Truck License Plate No.: [illegible] State: NY

Estimated Volume Loaded: 18 yd *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: 0

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1300

Load Identifier: License No.: 69405 NE Load No.: 24 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown medium-fine Sand w/ crushed stone
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

VG #05-4520R2-1 W-270587

№ 51032

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Jaime Flores Company: TLV Trucking

Address: 40 Neal Ave Bayshore Phone: (631) 816 1859 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St BK

Date: 11-30-17 Time: 1:18 PM Truck License Plate No.: 25623 MK State: NY

Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street, Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1345

Load Identifier: License No.: 25623 MK Load No.: 25 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Loam Sand w/ crushed stone

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

VG #05-452082-1 W-270587

City of New York
Parks & Recreation

№ 51042

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: _____ Company: _____

Address: _____ Phone: ( ) _____ Fax: ( ) _____

Truck Loaded: Site Name: _____ Address: _____

Date: _____ Time: _____ Truck License Plate No.: _____ State: _____

Estimated Volume Loaded: _____ *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: _____

Address: _____ Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1350

Load Identifier: License No.: 69405 ME Load No.: 26 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown course sand w/ crushed stone
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

№ 51020

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivera
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivera Company: TRIPLE G

Address: 300 Hutchinson Pwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: ~~[illegible]~~ NY Recycling Address: 475 Exterior Street

Date: 12/5/17 Time: 8:44AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☑ Yes ☐ No, If Yes, attach laboratory results

If No, has fill from this site previously been accepted at ☐ Yes ☑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10454 Block/Lot: 2134016

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: _____ Received:

Load Identifier: License No.: _____ Load No.: _____ Estimated Volume: _____ *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☐ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: **134016**
Date: **12/05/17**
NYR Ticketer: **RAVEN**

Outbound
8:43 AM

Customer: **749**
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836 Loads: 36
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: #51020

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:
Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

VG #05-452082-1 W-270587

City of New York
Parks & Recreation

№ 51022

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: — Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: JUAN RIVAS
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: JUAN RIVAS Company: Triple G

Address: 300 HUTCHINSON PKWY Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: NEW YORK Recycling Address: 475 Exterior St. Bronx. 10541

Date: 12/5/17 Time: 10:55AM Truck License Plate No.: 694105 MF State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☒ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St. Bronx. NY 10541 Block/Lot: 134047

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: _____ Received:

Load Identifier: License No.: _____ Load No.: _____ Estimated Volume: _____ *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☐ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134047
Date: 12/05/17
NYR Ticketer: RAVEN

Outbound
10:55 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 38
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: #51022

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

City of New York
Parks & Recreation

№ 51023

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Ramos
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Ramos Company: Triple G.

Address: 300 Hutchinson Pkwy Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx 10451

Date: 12/5/17 Time: 9:50 AM Truck License Plate No.: 609405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☑ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx NY 10451 Block/Lot: 2134033

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: _____ Received:

Load Identifier: License No.: _____ Load No.: _____ Estimated Volume: _____ *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☐ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: **134033**
Date: **12/05/17**
NYR Ticketer: **RAVEN**

Outbound

9:50 AM

Customer: **749**
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 37
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: #51023

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

№ 51045

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple 6.

Address: Phone: ( ) Fax: ( )

Truck Loaded: Site Name: Trump links Ferry Point Address: 475 Exterior St. Bronx, 10451

Date: 12/5/17 Time: 7:19AM Truck License Plate No.: 69405 MC State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx NY 10451 Block/Lot: 133998

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Received:

Load Identifier: License No.: Load No.: Estimated Volume: *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ☐ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 133998
Date: 12/05/17
NYR Ticketer: RAVEN

Outbound

7:19 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 35
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: #51045

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

VG #05-452082-1 W-270587

City of New York
Parks & Recreation

№ 51043

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: _____ Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: JUAN RIVAS
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: JUAN RIVAS Company: Triple G.

Address: 300 Hutchinson River prwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St Bx NY 10451

Date: 12/7/17 Time: 6:04 AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 cy *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes ☐ No, If Yes, attach laboratory results
If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: _____

Address: _____ Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman, Maser Consulting Received:

Load Identifier: License No.: 69405 ME (NY) Load No.: 1 Estimated Volume: 25T *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: soil with crushed stones
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Don Bowman Date: 12/7/2017 Sample No.: 1

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: using PID

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

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New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134224
Date: 12/07/17
NYR Ticketer: ROGER

Outbound
6:04 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836 Loads: 41
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: SFTS#51043

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:
Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

Scanned by CamScanner

VG #3-452082-1 W-270587

№ 51044

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G.

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. NY. 1054

Date: 12/7/17 Time: 7:46AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 1054 Block/Lot: 134 239

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman, Maser Consulting Received:

Load Identifier: License No.: 69405ME (NY) Load No.: 2 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: soil with crushed stones

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Don Bowman Date: 12/7/2017 Sample No.: 2

Results Received By (Name): Date:

Sampling Results: ☑ Acceptable ☐ Unacceptable Action: using PID

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

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New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134239
Date: 12/07/17
NYR Ticketer: RAVEN

Outbound

7:46 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 42
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: #51044

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

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Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

Scanned by CamScanner

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx NY 10541

Date: 12/7/17 Time: 9:02AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☐ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St. Bronx. NY 10541 Block/Lot: 134249

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman, Maser Consulting Received:

Load Identifier: License No.: 69405ME (NY) Load No.: 3 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: soil with crushed stones

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Don Bowman Date: 12/7/2017 Sample No.: 3

Results Received By (Name): _____ Date: _____

Sampling Results: ☑ Acceptable ☐ Unacceptable Action: using PID

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

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New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134249
Date: 12/07/17
NYR Ticketer: RAVEN

Outbound
9:02 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 43
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: DRIVER DOEST KNOW MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X: Juan Rivas

Driver Signature

Scanned by CamScanner

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: JUAN RIVAS
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: JUAN RIVAS Company: Triple G.

Address: 300 Hutchinson River Pkwy. Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. NY 10541

Date: 12/7/17 Time: 10:11 AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10541 Block/Lot: 0134257

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman, Maser Consulting Received:

Load Identifier: License No.: 69405ME (NY) Load No.: 4 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: soil with crushed stones

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Don Bowman Date: 12/7/2017 Sample No.: 4

Results Received By (Name): _____ Date: _____

Sampling Results: ☑ Acceptable ☐ Unacceptable Action: Using PID

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

Scanned by CamScanner

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134257
Date: 12/07/17
NYR Ticketer: RAVEN

Outbound
10:11 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836 Loads: 44
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: DRIVER DOES'NT KNOW MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

Scanned by CamScanner

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: ____ Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G.

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. NY 10541

Date: 12/7/17 Time: 11:17AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): ____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St. Bronx. NY. 10541 Block/Lot: 134268

Owner of Excavation Site: ____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # ____

Reason for Excavation of Soil at Site ____

Current and Past Usage of Site where Loading Took Place (if known): ____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman, Maser Consulting Received:

Load Identifier: License No.: 69405ME (NY) Load No.: 5 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: soil with crushed stones

CRUSHED STONES/SANDY/LOAMY ETC NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Don Bowman Date: 12/7/2017 Sample No.: 5

Results Received By (Name): ____ Date: ____

Sampling Results: ☑ Acceptable ☐ Unacceptable Action: using PID

WHITE: Exit Gate / PINK: Driver / YELLOW. Site / BLUE: Ind. Monitor / GREEN: Site Entry

Scanned by CamScanner

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134268
Date: 12/07/17
NYR Ticketer: RAVEN

Outbound
11:17 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 45
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: DRIVER DOES'NT KNOW MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X: Juan Ruiz

Driver Signature

Scanned by CamScanner

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G.

Address: 300 Hutchinson River Pkwy Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. NY 10541

Date: 12/7/17 Time: 12:34PM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10541 Block/Lot: 2134 282

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bouman, Maser Consulting Received:

Load Identifier: License No.: 69405 ME (NY) Load No.: 6 Estimated Volume 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: soil with crushed stone

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Don Bouman Date: 12/7/2017 Sample No.: 6

Results Received By (Name): Date:

Sampling Results: ☑ Acceptable ☐ Unacceptable Action: using PID

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

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New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134282
Date: 12/07/17
NYR Ticketer: RAVEN

Outbound
12:34 PM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 46
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: DRIVER DOES'NT KNOW MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

Scanned by CamScanner

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: JUAN RIVAS
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G.

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. 1054

Date: 12/7/17 Time: 1:22pm Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10541 Block/Lot: 134293

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bouman, Maser Consulting Received:

Load Identifier: License No.: 69405ME (NY) Load No.: 7 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: soil with crushed stone

CRUSHED STONES/SANDY/LOAMY ETC NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Don Bouman Date: 12/7/2017 Sample No.: 7

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: using PID

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

Scanned by CamScanner

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134293
Date: 12/07/17
NYR Ticketer: RAVEN

Outbound
1:22 PM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 47
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: DRIVER DOES'NT KNOW MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X: Juan Ramos

Driver Signature

Scanned by CamScanner

TK#: 134317

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. NY 1054

Date: 12/8/17 Time: 6:01 AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10541 Block/Lot: 134317

Owner of Excavation Site:

Operator of Excavation Site: Has Excavation Site been Tested for Contamination: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Dan Bowman Received:

Load Identifier: License No.: 69405 ME Load No.: 1-Total-48 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Sand w/ recycled concrete 1"-1½"

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: 12/8/17 Sample No.:

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

Scanned by CamScanner

TK# 134327

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: _____ Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: JUAN Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: JUAN Rivas Company: Triple G.

Address: 300 Hutchinson River Pkwy Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. 10541

Date: 12/8/17 Time: 7:59AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No. If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10541 Block/Lot: 134327

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman Received:

Load Identifier: License No.: _____ Load No.: Z - Total 49 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: 12/8/17 Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

Scanned by CamScanner

TX# 134342

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: _____ Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G

Address: 300 Hutchinson River Pwy. Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street Bronx. 10451

Date: 12/8/17 Time: 9:11AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No. If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx. NY 10451 Block/Lot: 134342

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

upervisor Name: Don Bowman Received:

oad Identifier: License No.: _____ Load No.: 3-Total 50 Estimated Volume: 18 *Cubic Yards*

laced in Stockpile Bin No.:

asic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

mple Collected By (Name): _____ Date: 12/8/17 Sample No.: _____

sults Received By (Name): _____ Date: _____

mpling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

Scanned by CamScanner

TKT# 134348

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rios
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rios Company: Triple G

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. 10451

Date: 12/8/17 Time: 10:18AM Truck License Plate No.: 69405 MF State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10451 Block/Lot: 134348

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Dan Bowman Received:

Load Identifier: License No.: _____ Load No.: 4-Total-51 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: 12/8/17 Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

Scanned by CamScanner

TK# 134362

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: _ Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: HUAN RIVAS
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: HUAN RIVAS Company: Triple G.

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. 10451

Date: 12/8/17 Time: 11:28AM Truck License Plate No.: 69405 MC State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10451 Block/Lot: 134362

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bouman Received:

Load Identifier: License No.: _____ Load No.: 5-Total-52 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: 12/8/17 Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

Scanned by CamScanner

TK# 134369

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G.

Address: 300 Hutchinson River Pkwy. Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. 10451

Date: 12/8/17 Time: 12:43pm Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results
☐ No. If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10451 Block/Lot: 134369

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bauman Received:

Load Identifier: License No.: Load No.: 6-Tota-53 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: 12/8/17 Sample No.:

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

Scanned by CamScanner

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134079
Date: 12/05/17
NYR Ticketer: RAVEN

Outbound

1:13 PM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Bellport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836 Loads: 40
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: #51019

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:
Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134224
Date: 12/07/17
NYR Ticketer: ROGER

Outbound

6:04 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 41
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: SFTS#51043

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:
Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134239
Date: 12/07/17
NYR Ticketer: RAVEN

Outbound

7:46 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 42
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: #51044

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134327
Date: 12/08/17
NYR Ticketer: RAVEN

Outbound

7:59 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 49
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: NO MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134342
Date: 12/08/17
NYR Ticketer: RAVEN

Outbound

9:11 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 50
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: NO MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134348
Date: 12/08/17
NYR Ticketer: RAVEN

Outbound

10:18 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 51
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: NO MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134362
Date: 12/08/17
NYR Ticketer: RAVEN

Outbound

11:28 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836 Loads: 52
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: NIO MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:
Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134369
Date: 12/08/17
NYR Ticketer: RAVEN

Outbound
12:43 PM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 53
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: NO MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:
Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X: Juan Rivas

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 134317
Date: 12/08/17
NYR Ticketer: RAVEN

Outbound

6:01 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 69405ME
Trucker: DJCI
Job No: 1836
Loads: 48
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: DRIVER DOES'NT KNOW MANIFEST NUMBER

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 138821
Date: 03/06/18
NYR Ticketer: RAVEN

Outbound

7:06 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 25623MK
Trucker: IEV
Job No: 1836
Loads: 54
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks:

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X: tito

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 138840
Date: 03/06/18
NYR Ticketer: RAVEN

Outbound

8:21 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Bellport NY, 11713

Truck Plate 25623MK
Trucker: IEV
Job No: 1836 Loads: 55
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks:

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X: tito

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 138859
Date: 03/06/18
NYR Ticketer: RAVEN

Outbound

9:39 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 25623MK
Trucker: IEV
Job No: 1836
Loads: 56
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks:

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 138881
Date: 03/06/18
NYR Ticketer: RAVEN

Outbound

11:22 AM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 25623MK
Trucker: IEV
Job No: 1836
Loads: 57
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks:

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 138901
Date: 03/06/18
NYR Ticketer: RAVEN

Outbound

12:56 PM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 25623MK
Trucker: IEV
Job No: 1836
Loads: 58
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: MANIFEST# 51054

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X:

Driver Signature

New York Recycling, LLC
475 Exterior Street
Bronx, NY 10451
718-742-0755 Fax 718-742-0754,

New York Recycling, LLC

Ticket No: 138919
Date: 03/06/18
NYR Ticketer: RAVEN

Outbound

2:03 PM

Customer: 749
Triple G Consulting Inc.
1481 Montauk Highway

Belllport NY, 11713

Truck Plate 25623MK
Trucker: IEV
Job No: 1836
Loads: 59
Job Description: Trump Links Ferry Point
Job Address: 500 Hutchinson Parkway
Town/Borough: BRONX

Remarks: MANI#51055

Material	Quantity	Unit Price	Delivery $	Misc $	Tax $	Total
06 Screened Fill	18.000 YD					

New York Recycling, LLC issues this receipt solely for calculating the unit of measure of the purchased materials. Customer/Hired Hauler/Trucker is solely responsible for operating the vehicle within its permitted weight limitation and for the safe and proper pick-up, hauling and delivery of materials. Customer/Hired Hauler/Trucker shall defend and indemnify New York Recycling, LLC against and all claims arising out of a failure to: (1) Comply with permitted weight limitations; and (2) Safely Pick-Up, Haul Truck and Deliver materials. TERMS (If applicable): Net 30 Days from invoice, interest accrued at the highest rate allowable under state law, or 1 1/2 % per month, whichever is less shall be charged and paid after due date.

Total Material:
Total Delivery:
Total Misc:
Total Tax:

Ticket Total:
Paid Amount:
Credit Card:
CC Auth #:

X: tito

Driver Signature

№ 51001

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yanic Flores Company: TEV Trucking

Address: 197 Caleb's Path Central Islip NY Phone: (631) 8131059 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St Bx NY 10451

Date: 11/27/17 Time: 6:10 AM Truck License Plate No.: 25623MK State: NY

Estimated Volume Loaded: 18 cy *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: _____

Address: _____ Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received:

Load Identifier: License No.: 25623 MK Load No.: 1 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Crushed Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51002

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yanic Flores Company: IFV trucking

Address: 197 Caleb's Path Central Islip ny Phone: (631) 813 1059 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St, Bx NY 10451

Date: 11/27/17 Time: 8:40AM Truck License Plate No.: 25623MK State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: _____

Address: _____ Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received:

Load Identifier: License No.: 25623 MK Load No.: 3 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51003

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yanic Flores Company: IEV trucking

Address: 197 celebs Path Central Islip ny Phone: (631) 831 1059 Fax: ( )

Truck Loaded: Site Name: Newyorkrecycling Address: 475 Exterior St Bx ny 10451

Date: 11.27.17 Time: 10:06 AM Truck License Plate No.: 25623 MK State: NY

Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling

Address: 475 EXTERIOR ST. BX NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1030

Load Identifier: License No.: 25623 MK Load No.: 5 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown coarse sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51004

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Vanic Flores Company: TEV Trucking

Address: 197 Caleb's Path Central Islip NY Phone: (631) 813 1059 Fax: ( )

Truck Loaded: Site Name: Newyork Recycling Address: 475 Exterior ST Bronx NY 10451

Date: 11-27-17 Time: 10:57AM Truck License Plate No.: 25623MK State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St. Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1120

Load Identifier: License No.: 25623 MK Load No.: 7 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse to fine sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51005

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Cordeoo Company: I. E. V. Trucking

Address: _____ Phone: (631) 813-1059 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 4 Oneill Ave Bay Shore NY

Date: 11/27/17 Time: 6:12AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: _____

Address: _____ Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 0430

Load Identifier: License No.: 64405 ME Load No.: 4 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51006

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Cardenas Company: I.E.V. Trucking

Address: 13 Jefferson Ave. Bentwood Phone: (630) 313-1059 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: H Oneill Ave Bay Shore

Date: 11/27/17 Time: 6:12 8:52 AM Truck License Plate No.: 69H05 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: _____

Address: 18 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 0600

Load Identifier: License No.: 69405 ME Load No.: 2 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Course Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51007

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Caldera Company: I.E.V. Trucking
Address: 11 Oneill Ave Bay Shore Phone: (631) 813 1059 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx 10451
Date: 11-27-17 Time: 11:17AM Truck License Plate No.: 69405ME State: NY
Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC
Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: _____
Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:
Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____
Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1140
Load Identifier: License No.: 69405ME Load No.: 8 Estimated Volume: 18 *Cubic Yards*
Placed in Stockpile Bin No.:
Basic Description Of Material: Brown Coarse-fine Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____
Results Received By (Name): _____ Date: _____
Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51009

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Cordero Company: I.E.V. Trucking

Address: 4 One 11 Ave. Bay Shore Phone: (631) 613 1039 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx, NY 10451

Date: November 27, 2017 Time: 10:11am Truck License Plate No.: 69405ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 EXTERIOR St Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1040

Load Identifier: License No.: 69405 ME Load No.: 6 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51010

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Cadena — Company: I.E.V. Trucking

Address: 40 Neill Bay Shore — Phone: ( ) _____ Fax: ( ) _____

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx, NY 10451

Date: 11-27-17 Time: 2:16pM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1445

Load Identifier: License No.: 69405 ME Load No.: 14 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown coarse Sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51011

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Cadeo Company: I.E.V. Trucking

Address: 11 Oneill Ave Boy Shor Phone: (718) 742-0755 Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx, NY 10451

Date: 11-27-17 Time: 1:25pM Truck License Plate No.: 69405ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1345

Load Identifier: License No.: 6AL105 ME Load No.: 12 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51012

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Fernando Cadena Company: I.E.V. Trucking

Address: H Oneill Ave Bay Shore Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx

Date: 11-27-17 Time: 12:31pM Truck License Plate No.: _____ State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx, Ny 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1255

Load Identifier: License No.: 69405 ME Load No.: 10 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Coarse Sand w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51013

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Yanic Flores
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yanic Flores Company: IEV Trucking
Address: 4 oneal Ave Bayshore ny Phone: (631)8131059 Fax: ( )
Truck Loaded: Site Name: New York Recycling Address: 475 Exterior ST Bx 10451
Date: 11-27-17 Time: 12:29PM Truck License Plate No.: 25623 MK State: NY
Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): *Pounds*
Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC
Address: 475 Exterior St. Bronx, NY 10451 Block/Lot:
Owner of Excavation Site: Has Excavation Site been Tested for Contamination:
Operator of Excavation Site: ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #
Reason for Excavation of Soil at Site:
Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1250
Load Identifier: License No.: 25623 MK Load No.: 9 Estimated Volume: 18 *Cubic Yards*
Placed in Stockpile Bin No.:
Basic Description Of Material: Brown course Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:
Results Received By (Name): Date:
Sampling Results: ❑ Acceptable ❑ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51014

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Yanic Flores
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yanic Flores Company: IEV trucking

Address: 4 Oneal Ave Bayshore, ny Phone: (631) 813 1059 Fax: ( )

Truck Loaded: Site Name: New york recycling Address: 475 Exterior ST Bx 10451

Date: 11.27.17 Time: 1:18 PM Truck License Plate No. 25623 State: NY

Estimated Volume Loaded: 18 Cy *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot:

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fortunato Received: 1340

Load Identifier: License No.: 25623 MK Load No.: 11 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Course Sand w/ gravel
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ❑ Acceptable ❑ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51016

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Yanic Flores Company: IEV trucking

Address: 4 oneal Ave Bayshore NY Phone: (631)813 Fax: ( )

Truck Loaded: Site Name: Newyork recycling Address: 475 Exterior st BX 10541

Date: 11-27-17 Time: 2:14pM Truck License Plate No. 25623 MK State: NY

Estimated Volume Loaded: 18 CY *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: _____

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: John Fontanato Received: 1440

Load Identifier: License No.: 25623 MK Load No.: 13 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: Brown Crushed Stone w/ gravel

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51017

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rua
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rua Company: Triple G

Address: 300 Hutchinson Pkwy. Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx 10451

Date: 12/4/17 Time: 12:29 PM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx NY 10451 Block/Lot: 2133939

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: _____ Received:

Load Identifier: License No.: _____ Load No.: _____ Estimated Volume: _____ *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51018

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Ruiz Company: Triple G

Address: 300 Hutchinson Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. 10451

Date: 12/4/07 Time: 1:24PM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx, NY 10451 Block/Lot: 3133953

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: _____ Received:

Load Identifier: License No.: _____ Load No.: _____ Estimated Volume: _____ *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51019

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

TICKET #
134079
12/5/2017

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Ruiz
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Ruiz Company: Triple G.

Address: 300 Hutchinson Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx ~~NY~~ 10541

Date: 12/5/17 Time: 1:13PM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx NY 10541 Block/Lot: 134079

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: _____ Received:

Load Identifier: License No.: _____ Load No.: _____ Estimated Volume: _____ *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☐ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51021

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

TICKET # 134079 12/5/2017

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Ramos
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Ramos Company: Triple G

Address: 300 Hutchinson Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx, 10541

Date: 12/5/17 Time: 12:28pM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☑ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10541 Block/Lot: 934063

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Received:

Load Identifier: License No.: Load No.: Estimated Volume: *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ☐ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51040

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivera
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivera Company: Triple G

Address: 300 Hutchinson prwy. Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx Ny 10451

Date: 12/4/17 Time: 5:56AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes ☐ No, If Yes, attach laboratory results

If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx Ny 10451 Block/Lot: 13389 2

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Received:

Load Identifier: License No.: Load No.: Estimated Volume: *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51043

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TICKET #
134224
12/7/2017

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: JUAN RIVAS
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: JUAN RIVAS Company: Triple G.

Address: 300 Hutchinson River prwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St Bx NY 10451

Date: 12/7/17 Time: 6:04 Am Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 cy *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes ☐ No, If Yes, attach laboratory results
If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name:

Address: Block/Lot:

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman, Maser Consulting Received:

Load Identifier: License No.: 69405 ME (NY) Load No.: 1 Estimated Volume: 25T *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: soil with crushed stones
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Don Bowman Date: 12/7/2017 Sample No.: 1

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: using PID

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51044

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TICKET # 134239
12/7/2017

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G.

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. NY. 10541

Date: 12/7/17 Time: 7:46AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes ☐ No, If Yes, attach laboratory results
If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx NY 10541 Block/Lot: 134239

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman, Maser Consulting Received:

Load Identifier: License No.: 69405ME (NY) Load No.: 2 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: soil with crushed stones
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Don Bowman Date: 12/7/2017 Sample No.: 2

Results Received By (Name): Date:

Sampling Results: ☑ Acceptable ☐ Unacceptable Action: using PID

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51046

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rios
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rios Company: Triple G.

Address: 300 Hutchinson PRWY Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street Bronx 10451

Date: 12/4/17 Time: 7:54AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results
☐ No, If No, has fill from this site previously been accepted at
☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St. Bronx NY 10451 Block/Lot: 0 133898

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: _____ Received:

Load Identifier: License No.: _____ Load No.: _____ Estimated Volume: _____ *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51047

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Ruiz
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Ruiz Company: Triple G.

Address: 300 Hutchinson Pkwy. Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx 10451

Date: 12/4/17 Time: 9:13AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St. Bronx, NY 10451 Block/Lot: 133907

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Received:

Load Identifier: License No.: Load No.: Estimated Volume: *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51048

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G.

Address: 300 Hutchinson pkwy. Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. 10451

Date: 12/4/17 Time: 10:17 AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results
❑ No, If No, has fill from this site previously been accepted at
❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx NY 10451 Block/Lot: 133915

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Received:

Load Identifier: License No.: Load No.: Estimated Volume: *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ❑ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51049

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: _____ *Driver's Signature*

PLEASE PRINT CLEARLY

Driver Name: Juan Ruiz Company: Triple G

Address: 300 Hutchinson Phone: ( ) Fax: ( )

Truck Loaded: Site Name: Trump Links Ferry Point Address: 475 Exterior St. Bronx 10451

Date: 12/4/17 Time: 11:09AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☑ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St. Bronx NY 10451 Block/Lot: 133985

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: _____ Received:

Load Identifier: License No.: _____ Load No.: _____ Estimated Volume: _____ *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

TK#: 134317

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas
Address: 300 Hutchinson River Pkwy Bronx
Company: Triple G
Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. NY 10541
Date: 12/8/17 Time: 6:01 AM Truck License Plate No.: 64405 ME State: NY
Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes ☐ No, If Yes, attach laboratory results
If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC
Address: 475 Exterior Street. Bronx. NY 10541 Block/Lot: 134317
Owner of Excavation Site:
Operator of Excavation Site:
Has Excavation Site been Tested for Contamination: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #
Reason for Excavation of Soil at Site
Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman
Load Identifier: License No.: 64405 ME Load No.: 1-Total-48 Received: Estimated Volume: 18 *Cubic Yards*
Placed in Stockpile Bin No.:
Basic Description Of Material: Brown Sand w/ recycled concrete 1"-1½"
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: 12/8/17 Sample No.:
Results Received By (Name): Date:
Sampling Results: ☒ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

TK# 134327

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: JUAN Rios
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: JUAN Rios Company: Triple G.

Address: 300 Hutchinson River Pkwy Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. 10541

Date: 12/8/17 Time: 7:59AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10541 Block/Lot: 134327

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman Received:

Load Identifier: License No.: _____ Load No.: Z - Total 49 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: 12/8/17 Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

TX# 134342

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G

Address: 300 Hutchinson River Pwy. Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. 10451

Date: 12/8/17 Time: 9:11AM Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes ☐ No, If Yes, attach laboratory results. If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10451 Block/Lot: 134342

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman Received:

Load Identifier: License No.: Load No.: 3-Total 50 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: 12/8/17 Sample No.:

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

TKH-134348

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior Street. Bronx. 10451

Date: 12/8/17 Time: 10:18AM Truck License Plate No.: 64405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10451 Block/Lot: 134348

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman Received:

Load Identifier: License No.: Load No.: 4-Total-51 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: 12/8/17 Sample No.:

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

TK# 134362

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: _ Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: JUAN RIVAS

Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: JUAN RIVAS Company: Triple G.

Address: 300 Hutchinson River Pkwy Bronx Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. 10451

Date: 12/8/17 Time: 11:28AM Truck License Plate No.: 69405 MC State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10451 Block/Lot: 134362

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman Received:

Load Identifier: License No.: _____ Load No.: 5-Total-52 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____

CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: 12/8/17 Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☒ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

TK# 134369

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Juan Rivas
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Juan Rivas Company: Triple G.

Address: 300 Hutchinson River Pkwy. Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx. 10451

Date: 12/8/17 Time: 12:43pm Truck License Plate No.: 69405 ME State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street. Bronx. NY 10451 Block/Lot: 134369

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Don Bowman Received:

Load Identifier: License No.: Load No.: 6-Tota-53 Estimated Volume: 18 *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: 12/8/17 Sample No.:

Results Received By (Name): Date:

Sampling Results: ☒ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51050

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: X titor
Driver's Signature

PLEASE PRINT CLEARLY

X Driver Name: TOTO X Company: Triple E. consulting INC

X Address: 500 HUTCHINSON PARKWAY Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx 10451

Date: 3/6/18 Time: 7:06AM X Truck License Plate No.: 25623MK State: NJ

Estimated Volume Loaded: 18yds *Cubic Yards* Weight (if known): ~~[illegible]~~ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☑ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St Block/Lot: 3 138, 821

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Received:

Load Identifier: License No.: Load No.: Estimated Volume: *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ☐ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51051

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Tito
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: TiTo Company: Triple G. consulting INC

Address: 500 HUTCHINSON PARKWAY Phone: ( ) Fax: ( )

Truck Loaded: Site Name: [illegible] Address: 475 Exterior St

Date: 3/6/18 Time: 8:21 A.M. Truck License Plate No: 256723 MK State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☑ Yes If Yes, attach laboratory results

NYJR TK# 138340 ☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name:

Address: Block/Lot:

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Received:

Load Identifier: License No.: Load No.: Estimated Volume: *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ☐ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51052

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Tito
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: Tito Company: Triple G Concrete Inc.

Address: 100 Hutchinson Parkway Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St.

Date: 3/6/18 Time: 9:39 A.M. Truck License Plate No.: 26623MK State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☑ Yes If Yes, attach laboratory results

NYRTK#138,859

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name:

Address: Block/Lot:

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Received:

Load Identifier: License No.: Load No.: Estimated Volume: *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ☐ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51053

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Tito
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: TITO Company: Triple B Consulting INC

Address: 500 Hutchinson Parkway Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St.

Date: 3/6/18 Time: 11:22AM Truck License Plate No.: 25623MK State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☑ Yes If Yes, attach laboratory results

NYR TX# 138,881 ☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: Block/Lot:

Owner of Excavation Site: Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load #

Reason for Excavation of Soil at Site:

Current and Past Usage of Site where Loading Took Place (if known):

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: Received:

Load Identifier: License No.: Load No.: Estimated Volume: *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material:
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): Date: Sample No.:

Results Received By (Name): Date:

Sampling Results: ☐ Acceptable ☐ Unacceptable Action:

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

City of New York
Parks & Recreation

№ 51054

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Tito
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: TITO Company: Triple S.

Address: 500 Hutchinson River Park. Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx 10451

Date: 3/6/18 Time: 12:56PM Truck License Plate No.: 25622 MK State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ☒ Yes If Yes, attach laboratory results

☐ No, If No, has fill from this site previously been accepted at ☐ Yes ☐ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior Street Bronx, NY 10451 Block/Lot: TK # 138,901

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ☐ No ☐ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: _____ Received:

Load Identifier: License No.: _____ Load No.: _____ Estimated Volume: _____ *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ☐ Acceptable ☐ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

№ 51055

City of New York
Parks & Recreation

SITE FILL TRACKING SYSTEM

TO BE COMPLETED BY HAULER PRIOR TO TRUCK ENTERING

Rules (Subject to change without notice)

1. All drivers must obtain authorization at the office trailer prior to driving onto the site.
2. Loads without valid permits at the point of loading will not be accepted.
3. Drivers must clean tires/wheels of any debris, using the high pressure hose provided, prior to leaving the site. Drivers who do not comply will be charged for the cleaning of: _____ Avenue and any fines or penalties imposed.

I have read and agree to comply with the above rules: Tito
Driver's Signature

PLEASE PRINT CLEARLY

Driver Name: TITO Company: Triple G.

Address: 500 HUTCHINSON RIVER PARKWAY Phone: ( ) Fax: ( )

Truck Loaded: Site Name: New York Recycling Address: 475 Exterior St. Bronx 10451

Date: 3/6/18 Time: 2:03pm Truck License Plate No.: 25 1623 MK State: NY

Estimated Volume Loaded: 18 *Cubic Yards* Weight (if known): _____ *Pounds*

Has a Sample from this Truck Load been Tested for Contamination: ❑ Yes If Yes, attach laboratory results

❑ No, If No, has fill from this site previously been accepted at ❑ Yes ❑ No

Original Site where Soil was Excavated: Site Name: New York Recycling LLC

Address: 475 Exterior St. Bronx NY, 10451 Block/Lot: 2138919

Owner of Excavation Site: _____ Has Excavation Site been Tested for Contamination:

Operator of Excavation Site: _____ ❑ No ❑ Yes If Yes, attach laboratory results or give load number with which they were previously submitted. Load # _____

Reason for Excavation of Soil at Site: _____

Current and Past Usage of Site where Loading Took Place (if known): _____

TO BE COMPLETED BY SOIL RECEIVING SUPERVISOR

Supervisor Name: _____ Received:

Load Identifier: License No.: _____ Load No.: _____ Estimated Volume: _____ *Cubic Yards*

Placed in Stockpile Bin No.:

Basic Description Of Material: _____
CRUSHED STONES/SANDY/LOAMY ETC. NOTE ANY LIQUIDS OR STAINING

TO BE COMPLETED BY ENGINEERING

Sample Collected By (Name): _____ Date: _____ Sample No.: _____

Results Received By (Name): _____ Date: _____

Sampling Results: ❑ Acceptable ❑ Unacceptable Action: _____

WHITE: Exit Gate / PINK: Driver / YELLOW: Site / BLUE: Ind. Monitor / GREEN: Site Entry

APPENDIX L

Manifests for Imported Fill from Ranco Sand & Stone

Date	Manifest No.		Weight (rounded off)
09/12/2018	Unknown (Load 1)		40 tons
09/13/2018	Unknown (Load 2)		40 tons
09/13/2018	490896 (Load 3)		39 tons
09/21/2018	488757 (Load 4)		40 tons
09/21/2018	Unknown (Load 5)		39 tons
09/21/2018	489108 (Load 6)		34 tons
09/24/2018	489111 (Load 7)		35 tons
09/24/2018	Unknown (Load 8)		38 tons
09/28/2018	Unknown (Load 9)		40 tons
09/28/2018	Unknown (Load 10)		40 tons
10/02/2018	490895 (Load 11)		41 tons
10/02/2018	490898 (Load 12)		38 tons
10/02/2018	488183 (Load 13)		39 tons
10/02/2018	489115 (Load 14)		35 tons
10/04/2018	48877? (Load 16)		39 tons
10/04/2018	481957 (Load 15)		39 tons
10/04/2018	488174 (Load 17)		41 tons
10/08/2018	488175 (Load 18)		37 tons
10/08/2018	312110 (Load 19)		38 tons
10/08/2018	488790 (Load 20)		39 tons
10/08/2018	Unknown (Load 21)		41 tons
10/08/2018	Unknown (Load 22)		38 tons
10/10/2018	489141 (Load 23)		33 tons
10/10/2018	488761 (Load 24)		38 tons
10/10/2018	491073 (Load 25)		37 tons
10/12/2018	488759 (Load 26)		39 tons
10/12/2018	491071 (Load 27)		38 tons
GRAND TOTAL	**27 LOADS**		**690 CUBIC YARDS (using 1.5 tons per cubic yard)**

LOAD #7

Almar Supplies

248-22 Brookville Blvd
Rosedale, NY 11422

489111

VIA ALMAR

9-24 20 18

M FROM RANCO SAND

10 TRUMP AT FERRY PT PARK

Truck # 88	Ticket #	Driver HENRY E
Concrete Sand		
Fine Sand	458333	35.02 TONS
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

LOAD #7

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 458333
Date 09/24/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISMO CONSTRUCTION
8 CLUSTERPINE STREET

MEDFORD,NY 11763

Order No. 1

Loads 5

Truck ALMA-88 ALMAR TRUCK #88
Material COVER COVER MATERIAL

Gross 105380 lb Scale 1 Out 7:56 am
Tare 35340 lb
Net 70040 lb
35.02 tn

Weigh Master

Driver

TRUMP AT FERRY POINT PARK

Henri E #88

LOAD # 10

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 456327
Date 09/24/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

MEDFORD,NY 11763

Loads: 4

Truck: ALMA-10 ALMAR TRUCK #10
Material: COVER COVER MATERIAL

Gross 113440 lb Scale 1 Out 7:30 am
Tare 37360 lb
Net 76080 lb
38.04 tn

Weigh Master: AC

Driver:

TRUMP AT FERRY POINT PARK

10

LOAD #9 LOAD #10

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 456594
Date 09/28/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

MEDFORD,NY 11763

Loads: 7

Truck: ALMA-49 ALMAR TRUCK #49
Material: COVER COVER MATERIAL

Gross 115480 lb Scale 1 Out 4:54 am
Tare 35400 lb
Net 80080 lb
40.04 tn

Weigh Master: AC

Driver:

TRUMP AT FERRY POINT PARK

Load # 10

Almar Supplies

248-22 Brookville Blvd
Rosedale, NY 11422

490895

VIA _____

M _____ 20 _____

Truck # | Ticket # | Driver

Concrete Sand		
Fine Sand		
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire _____ Hrs. _____

Accepted by _____

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

Load # 11

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 458747
Date 10/02/2018
Phone (631)874-3939
Fax (631)874-3653

BELLISIMO CONSTRUCTION
8 CLUSTER PINE STREET

Order No: 1

MEDFORD,NY 11763

Loads 12

Truck ALMA 3
Material ALMAR TRUCK #3 COVER MATERIAL COVER

Gross 114600 lb
Tare 33160 lb
Net 81440 lb
40.72 tn

Scale 1
Out 5:13 am

Weigh Master AC

Driver

TRUMP AT FERRY POINT PARK

Almar Supplies Load #12

490898

248-22 Brookville Blvd
Rosedale, NY 11422

VIA

M

10-2 20 18

To Trump Parks

Truck #	Ticket #	Driver
49		Ernesto

Concrete Sand	
Fine Sand	
Asphalt Sand	
LI Gravel	
3/4 Crushed Stone	
3/8 Crushed Stone	
Stone	
Topsoil	
Fill	
Regular Blend	
Dot Blend	
Removal	
On Hire	Hrs.
Accepted by	

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE
YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

Load #12

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Load #13

Ticket# 456742
Date 10/02/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

MEDFORD,NY 11763

Order No: 1

Loads: 10

Truck : ALMA-49 ALMAR TRUCK #49
Material: COVER COVER MATERIAL

Gross: 110920 lb Scale 1 Out 4:56 am
Tare: 35400 lb
Net: 75520 lb
37.76 tn

Weigh Master: AC

Driver:

TRUMP AT FERRY POINT PARK

Almar Supplies LOAD #13

488183/4

248-22 Brookville Blvd
Rosedale, NY 11422

VIA Almar

10-02 20 18

M Rami Ranco
to. Bellissimo construction
Ferry Point

Truck # 68	Ticket #	Driver Ronni
Concrete Sand		39.24 ton
Fine Sand		
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

LOAD #13

Rambo Sand & Stone
151 South Street
Mamaroneck, NY 11849

Ticket# 456746
Date 10/02/2018
Phone (631)874-3939
Fax (631)874-3563

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET
MEDFORD, NY 11763

Order No. 1
Loads: 1

Truck: ALMA-68
Material: COVER

ALMAR TRUCK #68
COVER MATERIAL

Gross: 115200 lb Scale 1 Out 5:10 am
Tare: 36720 lb
Net: 78480 lb
39.24 tn

Weigh Master:

Driver: Ronni

TRUMP AT FERRY POINT PARK

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 456748
Date 10/02/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

MEDFORD,NY 11763

Loads: 13

Truck: ALMA-34
Material: COVER ALMAR TRUCK #34 COVER MATERIAL

Gross 100360 lb Scale 1 Out 5:16 am
Tare: 39420 lb
Net 60940 lb
34.97 tn

WeighMaster: AC

Driver:

TRUMP AT PERRY POINT PARK

M & B ENTERPRISES (516) 623-0891

Ref. No: G 949401865

LOAD #14

Almar Supplies

248-22 Brookville Blvd
Rosedale, NY 11422

489115

VIA

M 10-2-18 20 18
Perry Point Trump-Park
Mike Stone

Truck # 34	Ticket #	Driver Francisco
Concrete Sand	MANIFEST # 456748	
Fine Sand		
Asphalt Sand	34.97 TONS	
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

M & B ENTERPRISES (516) 623-0891

Ref. No: G 94930

Almar Supplies

248-22 Brookville Blvd
Rosedale, NY 11422

48877

VIA

M 10-4 20

Br Ranco
to Trump Link
49 Canoly

Truck #	Ticket #	Driver
Concrete Sand		
Fine Sand		
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

Load # 14

Ranco Sand & Stone
151 South Street
Manorville, NY 11949

Ticket # 456891
Date 10/04/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

MEDFORD, NY 11763

Loads: 14

Truck: ALMA-49 ALMAR TRUCK #49
Material: COVER COVER MATERIAL

Gross 113900 lb Scale 1 Out 4:54 am
Tare 35400 lb

Net 78500 lb
39.25 tn

Weigh Master AC

Driver

TRUMP AT FERRY POINT PARK

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

LOAD #15

Ticket# 456992
Date 10/04/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET
MEDFORD,NY 11763

Order No: 1
Loads: 15

Truck: ALMA-34 ALMAR TRUCK #34
Material: COVER COVER MATERIAL

Gross: 116760 lb Scale 1 Out 4:58 am
Tare: 39420 lb
Net 77340 lb
38.67 tn

Weigh Master: AC
Driver:
TRUMP AT FERRY POINT PARK

481957

Almar Supplies

5705 47th Street
Maspeth, New York 11378

VIA _____

_____ 20____

M FERRY POINT GOLF COURSE
TRUMP - WHITE STONE

Truck # 34	Ticket #	Driver GIOVANNI
Concrete Sand		
Fine Sand	RANCO #	
Asphalt Sand		
LI Gravel	TONS	
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

cepted by _____

L PAYMENT MUST BE REMITTED FOR THE ABOVE
E OR TIME WITHOUT QUESTION IF THIS IS SIGNED

Almar Supplies

248-22 Brookville Blvd
Rosedale, NY 11422

488174

VIA Almar

10-04 20 18

M FROM. Ranco
TO. TRUMP At FERRY Point PAR

Truck # 68	Ticket # 456896	Driver Rowi
Concrete Sand		40.73 ton
Fine Sand		
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

Co Ra #17

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 456896
Date 10/04/2018
Phone (631)874-3930
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

MEDFORD,NY 11763

Loads: 16

Truck: ALMA-68 ALMAR TRUCK #68
Material: COVER COVER MATERIAL

Gross 118180 lb Scale 1 Out 5:10 am
Tare 36720 lb
Net 81460 lb
40.73 tn

Weigh Master: AQ

Driver: Rowi

TRUMP AT FERRY POINT PARK

Almar Supplies

248-22 Brookville Blvd
Rosedale, NY 11422

488175

VIA Almar

10-08 20 18

M From Ranco
To: Ferry Point Park

Truck # 68	Ticket # 457043	Driver Ronny
Concrete Sand		37.34 ton
Fine Sand		
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

Cond # 18

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 457043
Date 10/08/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTER PINE STREET
MEDFORD,NY 11763

Order No: 1
Loads: 18

Truck : ALMA-68 ALMAR TRUCK #68
Material: COVER COVER MATERIAL

Gross 111400 lb Scale 1 Out 5:19 am
Tare: 36720 lb
Net 74680 lb
37.34 tn

Weigh Master AC

Driver Ronny

TRUMP AT FERRY POINT PARK

DELUXE FOR BUSINESS 1-800-888-6327 Ref. No: G 3124073

312110

Almar Supplies

5705 47th Street
Maspeth, New York 11378

VIA

10/8 2018

M TRUMP GOLF COURSE
WHITESTON BRIDGE
BRONX

Truck # 34	Ticket #	Driver GIOVANNI
Concrete Sand		
Fine Sand	RANCO	# 457040
Asphalt Sand		
LI Gravel	TONS	37.93
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

Load #19

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 457046
Date 10/08/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET
MEDFORD,NY 11763

Order No: 1
Loads: 19

Truck: ALMA-34 ALMAR TRUCK #34
Material: COVER COVER MATERIAL

Gross: 115280 lb Scale 1 Out 6:30 am
Tare: 39420 lb

Net 75860 lb
37.93 tn

Weigh Master: AB

Driver:

TRUMP AT FERRY POINT PARK

M Almar

M & B ENTERPRISES (516) 623-0891

Ref. No: G 949401865

Almar Supplies

248-22 Brookville Blvd
Rosedale, NY 11422

488790

VIA _____

10-8 20 18

M Arrupo

to Trump Lin

Truck #	Ticket #	Driver
Concrete Sand		
Fine Sand		
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire _____ Hrs. _____

Accepted by _____

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIG

Cond # 80

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 457035
Date 10/08/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

MEDFORD,NY 11763

Loads: 17

Truck : ALMA-49 ALMAR TRUCK #49
Material: COVER COVER MATERIAL

Gross 114040 lb Scale 1 Out 4:55 am
Tare: 35400 lb

Net 78640 lb
39.32 tn

Weigh Master

Driver

TRUMP AT FERRY POINT PARK

LOAD # 21

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 457047
Date 10/08/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

MEDFORD,NY 11763

Loads: 20

Truck: ALMA-3 ALMAR TRUCK #3
Material: COVER COVER MATERIAL

Gross: 114660 lb Scale 1 Out 5:33 am
Tare: 33160 lb
Net: 81500 lb
40.75 tn

Weigh Master: AC

Driver:

TRUMP AT FERRY POINT PARK

LOAD # 22

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 457079
Date 10/08/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

MEDFORD,NY 11763

Loads: 21

Truck: ALMA-37 ALMAR TRUCK #37
Material: COVER COVER MATERIAL

Gross: 114620 lb MAN WT Out 11:48 am
Tare: 38120 lb
Net: 76500 lb
38.25 tn

Weigh Master: AC

Driver:

TRUMP AT FERRY POINT PARK

LOAD #6

Almar Supplies

248-22 Brookville Blvd
Rosedale, NY 11422

489108

VIA AL MAR

1-21 20 18

M FROM RANCO SAND

TRUMP FERRY POINT PARK

Truck # 88	Ticket #	Driver HENRY E
Concrete Sand		
Fine Sand	458251	34.10 TONS
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

LOAD #6

Ranco Sand & Stone
151 South Street
Manorville, NY 11949

Ticket # 458251
Date 09/21/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTER PINE STREET

Order No: 1

MEDFORD, NY 11763

Loads: 3

Truck: ALMA-88 ALMAR TRUCK #88
Material: COVER COVER MATERIAL

Gross 103540 lb MAN WT Out 8:01 am
Tare 35340 lb
Net 68200 lb
34.10 tn

Weigh Master:

Driver: Henry E #88

TRUMP AT FERRY POINT PARK

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 455720
Date 09/12/2018
Phone (631)874-3939
Fax (631)874-3553

TRUMP AT FERRY POINT
700 HUTCHINSON RIVER PKWY

BRONX,NY 10465

Order No: 1

Loads: 64

Truck : ALMA-88 ALMAR TRUCK #88
Material: COVER COVER MATERIAL

Gross 114840 lb Scale 1 Out 7:45 am
Tare 35340 lb
Net 79500 lb
39.75 tn

Weigh Master: AC

Driver:

SOURCE# 10-98F TEST# 03AF109

88

LOAD 1

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 455773
Date 09/13/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

MEDFORD,NY 11763

Order No: 1

Loads: 1

Truck : ALMA-88 ALMAR TRUCK #88
Material: COVER COVER MATERIAL

Gross 114480 lb Scale 1 Out 5:21 am
Tare 35340 lb
Net 79140 lb
39.57 tn

Weigh Master: MC

Driver:

TRUMP AT FERRY POINT PARK

88

LOAD #2

Almar Supplies

248-22 Brookville Blvd
Rosedale, NY 11422

490896

VIA LOAD # 3

9-13 20 18

M R Renco

L Trump-P

Truck #	Ticket #	Driver
49		Donald
Concrete Sand		
Fine Sand	✓	
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

LOAD #3

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket # 455769
Date 09/13/2018
Phone (631)874-3939
Fax (631)874-3563

LOAD # 3

ALMAR SUPPLIES INC
248-22 BROOKVILLE BLVD

Order No: 1

ROSEDALE,NY 11422

Loads: 37.365

Truck: ALMA-49 ALMAR TRUCK #49
Material: SCS STATE CONCRETE SAND

Gross: 113500 lb Scale 1 Out 4:57 am
Tare: 35400 lb
Net: 78100 lb
39.05 tn

Weigh Master AG

Driver

SOURCE# 10-98F TEST# 08AF104

LOAD #5

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 456245
Date 09/21/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No : 1

MEDFORD,NY 11763

Loads : 2

Truck : ALMA-10 ALMAR TRUCK #10
Material: COVER COVER MATERIAL

Gross: 114740 lb Scale 1 Out 5:27 am
Tare: 37360 lb
Net: 77380 lb
38.69 tn

Weigh Master: AC

Driver:

TRUMP AT FERRY POINT PARK

10

load #4

Ranco Sand & Stone
151 South Street
Manorville,NY 11949 #4

Ticket# 456236
Date 09/21/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

MEDFORD,NY 11763

Loads: 1

Truck: ALMA-49 ALMAR TRUCK #49
Material: COVER COVER MATERIAL

Gross: 115640 lb Scale 1 Out 4:55 am
Tare: 35400 lb
Net: 80240 lb
40.12 tn

Weigh Master: AG

Driver:

TRUMP AT FERRY POINT PARK

load #4

Almar Supplies
248-22 Brookville Blvd
Rosedale, NY 11422

488757

VIA

M 20

Truck #	Ticket #	Driver

Concrete Sand		
Fine Sand		
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone	load	#4
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		
On Hire		

Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

LOAD # 23

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 457202
Date 10/10/2018
Phone (631)874-3939
Fax (631)874-3563

BELLISIMO CONSTRUCTION
8 CLUSTERPINE STREET

MEDFORD,NY 11763

Order No: 1

Loads: 24

Truck: ALMA-5 ALMAR TRUCK #5
Material: COVER COVER MATERIAL

Gross: 102120 lb MAN WT Out 5:15 am
Tare: 35200 lb
Net: 66920 lb
33.46 tn

Weigh Master:

Driver:

TRUMP AT FERRY POINT PARK

Max Eder

Almar Supplies LOAD # 23
248-22 Brookville Blvd
Rosedale, NY 11422

M & B ENTERPRISES (516) 623-0991

Ref. No: G 949401865

489141

VIA

M FERRY POINT TRUMP GOLF 10/10 20 18
BRONX WHITESTONE

Truck #	Ticket #	Driver
05		GUSMAN

Concrete Sand		
Fine Sand	DANCO # 457202	
Asphalt Sand		
LI Gravel	33.46	
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		
On Hire		Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

Almar Supplies LOAD #27

248-22 Brookville Blvd
Rosedale, NY 11422

488761

VIA

10-1 20

M

Truck #	Ticket #	Driver
Concrete Sand		
Fine Sand		
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

LOAD #27

Ranco Sand & Stone
151 South Street
Nesconset, NY 11949

Ticket# 457197
Date 10/10/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

MEDFORD, NY 11763

Loads: 23

Truck: ALMA-49 ALMAR TRUCK #49
Material: COVER COVER MATERIAL

Gross 112100 lb MAN WT Out 4:56 am
Tare 35400 lb
Net 76700 lb
38.35 tn

Weigh Master:

Driver:

TRUMP AT FERRY POINT PARK

LOAD #27

Almar Supplies LOAD # 25

248-22 Brookville Blvd
Rosedale, NY 11422

491073

VIA ALMAR

10-10 20 12

M FROM RANCO SAND

TO TRUMP AT FERRY POINT PARK

Truck # 92	Ticket #	Driver HENRY E
Concrete Sand		
Fine Sand	457211	37 TONS
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

LOAD # 25

Ranco Sand & Stone
151 South Street
Manorville, NY 11949

Ticket # 457211
Date 10/10/2019
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
8 CLUSTER PINE STREET

Order No: 1

MEDFORD, NY 11763

Loads: 25

Truck: ALMA-92 ALMAR TRUCK #92
Material: COVER COVER MATERIAL

Gross 112420 lb MANVWT Out 7:41 am
Tare 38240 lb
Net 74180 lb
37.09 tn

Weigh Master:

Driver: Henri E #92

TRUMP AT FERRY POINT PARK

Almar Supplies LOAD #26

488759

248-22 Brookville Blvd
Rosedale, NY 11422

VIA _____

_____ 20 ____

M _____

Truck #	Ticket #	Driver
Concrete Sand		
Fine Sand		
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire _____ Hrs.

Accepted by _____

FULL PAYMENT MUST BEMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

Ranco Sand & Stone
151 South Street
Manorville,NY 11949

Ticket# 457352
Date 10/12/2018
Phone (631)874-3939
Fax (631)874-3563

BELLISMO CONSTRUCTION
8 CLUSTERPINE STREET

Order No: 1

Loads: 26

MEDFORD,NY 11763

Truck: ALMA-49 ALMAR TRUCK #49
Material: COVER COVER MATERIAL

Gross 113420 lb MANWT Out 4:[illegible]am
Tare 35400 lb
Net 78020 lb
39.01 tn

Weigh Master: AB

Driver:

TRUMP AT FERRY POINT PARK

Almar Supplies LOAD " of 1

491071

248-22 Brookville Blvd
Rosedale, NY 11422

VIA ALMAR

10-12 20 18

M FROM RANCO SAND

TO TRUMPET FERRY POINT PARK

Truck # 92	Ticket #	Driver HENRYE
Concrete Sand		
Fine Sand	457380	38.44 TONS
Asphalt Sand		
LI Gravel		
3/4 Crushed Stone		
3/8 Crushed Stone		
Stone		
Topsoil		
Fill		
Regular Blend		
Dot Blend		
Removal		

On Hire Hrs.

Accepted by

FULL PAYMENT MUST BE REMITTED FOR THE ABOVE YARDAGE OR TIME WITHOUT QUESTION IF THIS IS SIGNED

Ranco Sand & Stone
161 South Street
Manorville,NY 11949

Ticket# 457360
Date 10/12/2018
Phone (631)874-3939
Fax (631)874-3553

BELLISIMO CONSTRUCTION
6 CLUSTERPINE STREET

MEDFORD,NY 11763

Order No : 1

Loads: 27

Load # 27

Truck : ALMA-92 ALMAR TRUCK #92
Material: COVER COVER MATERIAL

Gross:	115120	lb	MAN WT	Out	5:45 am
Tare:	38240	lb			
Net:	76880	lb			
	38.44	tn			

Weigh Master: AC

Driver: Henri E #92

TRUMP AT FERRY POINT PARK

APPENDIX M

Minutes of Weekly Construction Progress Meetings

JCS Construction Group, Inc.

Meeting #1

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open
	Description: Review Submittal Log					
3.2	1	Kitchen Equipment	John Gruber **(Trump Ferry Point LLC)**, Ron Rainone **(Hart Howerton)**			Open
	Description: Review changing the design team to Sam Tell. We need to get this approved and in process					
3.3	1	South Ramp	John Gruber **(Trump Ferry Point LLC)**, Ron Rainone **(Hart Howerton)**			Open
	Description: Review location of the south ramp at loading doc. initiate any redesign					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	1	Roof Trusses	Ron Rainone **(Hart Howerton)**			Open
	Description: Review and release truss design					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	1	HVAC Redesign	John Gruber **(Trump Ferry Point LLC)**		High	Open
	Description: Has FP been release for new design? What is the timing on new bid docs?					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	1	Drainage	Ron Rainone **(Hart Howerton)**			Open
	Description:					

JCS | Construction Group, Inc.

Meeting #3

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 08/16/2017 **MEETING TIME:** 10:00 AM - Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:
Weekly Site meetings

ATTACHMENTS:

ATTENDEES:

Name	Company	Phone Number	Email
David Cerron		Tel: (212) 360-3457	david.cerron@parks.nyc.gov
Caitlin Pontrella		Tel: (212) 360-3471	caitlin.pontrella@parks.nyc.gov
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Kevin Dwyer	French & Parrello Associates	Tel: (732) 312-9800	kevin.dwyer@fpaengineers.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Jess Licata	JCS Construction Group, Inc.	Tel: (203) 485-9612	jess@jcsconstructiongroup.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Phiip Gauffreau	Maser Consulting P.A.	Tel:	pgauffreau@maserconsulting.com
Robert Zelley	Maser Consulting P.A.	Tel:	rzelley@maserconsulting.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
2.1	1	Stock Pile	Justin Shaw (JCS Construction Group, Inc.)			Open
	Description: Review current stock piles and confirm approach for securing them.					
2.2	2	Tarping of the Stock Pile	Caitlin Pontrella			Open
	Description: Woodard and Curran has requested we tarp the stock pile. Plans show we need to seed the pile if it will be present for more than 30 days. We do not have tarping it in our contract. Need a direction.					

JCS | Construction Group, Inc.

Meeting #3

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone (Hart Howerton)			Open
	Description: Review Submittal Log					
3.2	1	Kitchen Equipment	John Gruber (Trump Ferry Point LLC), Ron Rainone (Hart Howerton)			Open
	Description: Review changing the design team to Sam Tell. We need to get this approved and in process					
3.3	1	South Ramp	John Gruber (Trump Ferry Point LLC), Ron Rainone (Hart Howerton)			Open
	Description: Review location of the south ramp at loading dock, initiate any redesign					
3.6	1	Bluestone	Ron Rainone (Hart Howerton)			Open
	Description: Currently waiting on approved samples.					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	1	Roof Trusses	Ron Rainone (Hart Howerton)			Open
	Description: Review and release truss design					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	1	HVAC Redesign	John Gruber (Trump Ferry Point LLC)		High	Open
	Description: Has FP been release for new design? What is the timing on new bid docs?					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw (JCS Construction Group, Inc.)			Open
	Description: Review two week look ahead.					

JCS | Construction Group, Inc.

Meeting #3

Civil						
No	**Meeting Origin**	**Title**	**Assignment**	**Due Date**	**Priority**	**Status**
7.1	1	Drainage	Ron Rainone (Hart Howerton)			Open
	Description: We would like to look into bringing all building drainage to the existing system in the parking lot to avoid any disturbance to the Golf Course. We also have issues with the existing structures and their ability to implement the design intent.					

JCS Construction Group, Inc.

Meeting #9

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 09/27/2017 **MEETING TIME:** 10:00 AM - Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:
Weekly Site meetings

ATTACHMENTS:

ATTENDEES:

Name	Company	Phone Number	Email
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Caitlin Pontrella		Tel: (212) 360-3471	caitlin.pontrella@parks.nyc.gov
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Jess Licata	JCS Construction Group, Inc.	Tel: (203) 485-9612	jess@jcsconstructiongroup.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Robert Zelley	Maser Consulting P.A.	Tel:	rzelley@maserconsulting.com
Arthur Fisher	Sam Tell Companies	Tel:	afisher@samtell.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept. CP suggests not to present PDC with piecemeal submissions but three separate packages: roof, exterior elevation, and kitchen. If the potential exterior awning for outside kitchen area is a temporary, seasonal structure, then it becomes a non-issue, does not need to be approved by PDC.					

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

	Description: Has FP been release for new design? What is the timing on new bid docs?					
5.3	6	Vapor Pipe Locations	Ron Rainone **(Hart Howerton)**, Kevin Dwyer **(French & Parrello Associates)**	09/ 11/ 2017		Open
	Description: We need final direction on the elevations of the pipe sleeves and where we can penetrate the walls or haunch of the slab.					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
6.2	6	Delays	Ron Rainone **(Hart Howerton)**	09/ 11/ 2017		Open
	Description: At this time I am putting in writing that there will be a significant change forthcoming to the contractual completion dates and associated documents. The current contract states dates assuming a start date equal to the signing date of the contract. The actual start date was months later. we have also encountered delays relative to site conditions as well as delays in responses for remediation work. I will circulate an official memo for Rons review and approval per Article II of our contract.					
6.3	8	Permits	Ron Rainone **(Hart Howerton)**			Open
	Description: Ownership obtained a revised Earthwork permit reflecting change to Project Super.					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	1	Drainage	Ron Rainone **(Hart Howerton)**			Open
	Description: We would like to look into bringing all building drainage to the existing system in the parking lot to avoid any disturbance to the Golf Course. We also have issues with the existing structures and their ability to implement the design intent.					
7.2	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction.					

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
8.1	9	PCCO #003	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: JCS need PCCO #003 approved and signed for the changes to the SSDS system so it can be ordered and installed in the coming weeks. Any delay to that would potentially cause serious delays related to weather and the liquid boot. These changes are related to the 6/6/17 changes by DEC.					
	Attachments:					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Sep 26, 2017 at 04:10 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
No Spec Section	35	0	Additional Fill Material		Open	JCS Construction Group, Inc.		Justin Shaw	09/26/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/26/2017		10/10/2017	
28 3502 METHANE GAS DETECTION AND ALARM	34	0	Methane Detection Package	Product Information	Open	EAI North		Zarah Thanasides	09/21/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/21/2017		10/05/2017	
No Spec Section	33	0	Couplings		Open	A&M Warshaw Plumbing & Heating		Cristine Bruno		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/21/2017		10/05/2017	
No Spec Section	32	0	Charlotte No-Hub Cast Iron Pipe	Product Information	Open	A&M Warshaw Plumbing & Heating		Cristine Bruno	09/21/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/21/2017		10/05/2017	
No Spec Section	31	0	Soil Analytical Reports	Product Information	Open	Triple G		Eric Garrido	09/15/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/16/2017		09/30/2017	
No Spec Section	30	0	Ejector Pump and Pit		Open	JCS Construction Group, Inc.		Justin Shaw		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/13/2017		09/27/2017	
No Spec Section	28	0	Wood Stain Samples	Sample	Open	JCS Millshop		James Falk		Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	For Record Only Pending	08/30/2017 09/12/2017	09/05/2017	09/13/2017	
06 4100 Architectural Wood Casework	26	1	Exterior Column	Shop Drawing	Open	JCS Millshop		James Falk		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/14/2017		09/28/2017	
31 6216.16 Steel H Piles	22	1	Pile ID Plan	Shop Drawing	Open	Triple G		Eric Garrido	09/06/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/21/2017		10/05/2017	
31 6216.16 Steel H Piles	22	0	Pile ID Plan	Shop Drawing	Open	Triple G		Eric Garrido		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/31/2017		08/14/2017	
06 4100 Architectural Wood Casework	19	0	Millwork Drawings	Shop Drawing	Open	JCS Millshop		James Falk	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	
08 1400 Wood Doors	18	0	Interior Doors	Shop Drawing	Open	Church Door		Chuck Sweetman	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	
No Spec Section	11	1	SSDS Blower Package		Open	EAI North		Zarah Thanasides		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/21/2017		10/05/2017	
03 3000 Cast-In-Place Concrete	7	2	Anchor Bolt Layout and Details	Plans	Open	Schiavo Steel Co. Inc.	05/25/2017	Bart Schiavo		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	08/15/2017		08/29/2017	

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Sep 26, 2017 at 04:07 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
45	Ferry Point Bar Request for Dimension Confirmation	Open	JCS Millshop	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	09/25/2017	Fiona Rooney	09/28/2017		Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)					Falk, James (JCS Millshop)
44	Drain pipe in cover layer	Open	JCS Construction Group, Inc.	Rainone, Ron (Hart Howerton)	09/25/2017	Fiona Rooney	09/28/2017		Rainone, Ron (Hart Howerton)					None
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Hart Howerton)	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JCS Construction Group, Inc.)					Wiles, Craig (JCS Millshop)
27	Grade Beam Sleeve Question to GC	Open	A&M Warshaw Plumbing & Heating	Shaw, Justin (JCS Construction Group, Inc.)	08/11/2017	Fiona Rooney	08/14/2017		Rooney, Fiona (JCS Construction Group, Inc.)					Bruno, Cristine (A&M Warshaw Plumbing & Heating)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Hart Howerton)	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Hart Howerton)					Falk, James (JCS Millshop)
14	Load Letter	Open	A&M Warshaw Plumbing & Heating	Rainone, Ron (Hart Howerton)	07/05/2017	Fiona Rooney	07/08/2017		Rooney, Fiona (JCS Construction Group, Inc.)		15 days			Bruno, Cristine (A&M Warshaw Plumbing & Heating)
3	Door Hardware	Open	JCS Construction Group, Inc.	Pusser, Brittany (JCS Construction Group, Inc.)	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS Construction Group, Inc.)					Shaw, Justin (JCS Construction Group, Inc.)

JCS | Construction Group, LLC

TWO-WEEK LOOK AHEAD

September 27th 2017

Project Name: Ferry Point **Job # 16-031** **Weekly Project Meeting Wednesday 10AM**

ACTIVITY	Week 1							Week 2							Comments
DATE:	Mon 9/25	Tu 9/26	Wed 9/27	Th 9/28	Fri 9/29	Sat 9/30	Sun 9/31	Mon 10/01	Tu 10/2	Wed 10/03	Thu 10/4	Fri 10/5	Sat 10/6	Sun 10/7	
Forms/Rebar	x	x	x	x	x	x		x	x	x	x	x			Sleeves/Forming/Stripping
Concrete				x											Cheek walls (one pour)
Backfilling	x	x	x	x	x	x		x	x	x	x	x			Compacting
Utilities								x	x	x	x	x			Drainage/Utilities/Roughings
Inspections												x			Plumbing/Electrical
															JCS will notify Parks, Maser and W&C 48 hours prior to EAI starting

44 Homestead Avenue, Stamford, CT 06902 t:(203) 485-9612 f:(203) 724-3884

JCS Construction Group, Inc.

Meeting #10

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 09/27/2017 **MEETING TIME:** 10:00 AM - 10:31 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:
Weekly Site meetings

ATTACHMENTS:

ATTENDEES:

Name	Company	Phone Number	Email
David Cerron		Tel: (212) 360-3457	david.cerron@parks.nyc.gov
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Caitlin Pontrella		Tel: (212) 360-3471	caitlin.pontrella@parks.nyc.gov
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Robert Zelley	Maser Consulting P.A.	Tel:	rzelley@maserconsulting.com
Arthur Fisher	Sam Tell Companies	Tel:	afisher@samtell.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept. CP suggests not to present PDC with piecemeal submissions but three separate packages: roof, exterior elevation, and kitchen. If the potential exterior awning for outside kitchen area is a temporary, seasonal structure, then it becomes a non-issue, does not need to be approved by PDC.					

JCS Construction Group, Inc.

Meeting #10

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
2.1	1	Stock Pile	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review current stock piles and confirm approach for securing them.					

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open
	Description: Review Submittal Log					
3.6	1	Bluestone	Ron Rainone **(Hart Howerton)**			On Hold
	Description: Currently waiting on approved samples.					
3.7	7	Roof Trusses	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS requests additional securing detail on the wood stringers. JCS to send RFI about the Simpson ties that have a maximum impact of 5/16" JCS to send RFI regarding the detail shown on the truss shops calling for rigid insulation on the bottom of the trusses but there is no corresponding drawing or note in the plans to show this.					
3.8	7	Kitchen	Ron Rainone **(Hart Howerton)**			Open
	Description: - As drawn by Jim Bailey, the New Exterior Bar/Kitchen design doesn't work because the column line is 11' from the building and isn't in Hart Howerton's design scope. AF to provide pricing to determine whether HH, JCS, and Ownership wants to proceed.					
3.9	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after reciept of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open

	Description: Review two week look ahead.

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	1	Drainage	Ron Rainone **(Hart Howerton)**			Open
	Description: We would like to look into bringing all building drainage to the existing system in the parking lot to avoid any disturbance to the Golf Course. We also have issues with the existing structures and their ability to implement the design intent.					
7.2	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction.					

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Oct 3, 2017 at 04:10 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
No Spec Section	38	0	Drainage Materials		Open	JCS Construction Group, Inc.		Justin Shaw		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/02/2017		10/16/2017	
No Spec Section	31	0	Soil Analytical Reports	Product Information	Open	Triple G		Eric Garrido	09/15/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/16/2017		09/30/2017	
No Spec Section	28	1	Wood Stain Samples	Sample	Open	JCS Millshop		James Falk		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending	10/03/2017 10/03/2017		10/17/2017	
06 4100 Architectural Wood Casework	26	1	Exterior Column	Shop Drawing	Open	JCS Millshop		James Falk		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/14/2017		09/28/2017	
06 4100 Architectural Wood Casework	19	0	Millwork Drawings	Shop Drawing	Open	JCS Millshop		James Falk	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	
08 1400 Wood Doors	18	0	Interior Doors	Shop Drawing	Open	Church Door		Chuck Sweetman	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	
03 3000 Cast-In-Place Concrete	7	2	Anchor Bolt Layout and Details	Plans	Open	Schiavo Steel Co. Inc.	05/25/2017	Bart Schiavo		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	08/15/2017		08/29/2017	

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Oct 3, 2017 at 04:13 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
47	Wine Dispenser	Open	JCS Millshop	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	09/26/2017	Fiona Rooney	09/29/2017		Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Interior Bar				Falk, James (JCS Millshop)
44	Drain pipe in cover layer	Open	JCS Construction Group, Inc.	Rainone, Ron (Hart Howerton)	09/25/2017	Fiona Rooney	09/28/2017		Rainone, Ron (Hart Howerton)					None
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Hart Howerton)	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JCS Construction Group, Inc.)					Wiles, Craig (JCS Millshop)
27	Grade Beam Sleeve Question to GC	Open	A&M Warshaw Plumbing & Heating	Shaw, Justin (JCS Construction Group, Inc.)	08/11/2017	Fiona Rooney	08/14/2017		Rooney, Fiona (JCS Construction Group, Inc.)					Bruno, Cristine (A&M Warshaw Plumbing & Heating)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Hart Howerton)	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Hart Howerton)					Falk, James (JCS Millshop)
14	Load Letter	Open	A&M Warshaw Plumbing & Heating	Rainone, Ron (Hart Howerton)	07/05/2017	Fiona Rooney	07/08/2017		Rooney, Fiona (JCS Construction Group, Inc.)		15 days			Bruno, Cristine (A&M Warshaw Plumbing & Heating)
3	Door Hardware	Open	JCS Construction Group, Inc.	Pusser, Brittany (JCS Construction Group, Inc.)	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS Construction Group, Inc.)					Shaw, Justin (JCS Construction Group, Inc.)

JCS Construction Group, Inc.

Meeting #11

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 10/11/2017 **MEETING TIME:** 10:00 AM - 10:30 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:
Weekly Site meetings

ATTACHMENTS:
Project Meeting.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Caitlin Pontrella		Tel: (212) 360-3471	caitlin.pontrella@parks.nyc.gov
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept. CP suggests not to present PDC with piecemeal submissions but three separate packages: roof, exterior elevation, and kitchen. If the potential exterior awning for outside kitchen area is a temporary, seasonal structure, then it becomes a non-issue, does not need to be approved by PDC.					

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open

	Description: Review Submittal Log					
3.6	1	Bluestone	Ron Rainone **(Hart Howerton)**			On Hold
	Description: Currently waiting on approved samples.					
3.7	7	Roof Trusses	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS requests additional securing detail on the wood stringers. JCS to send RFI about the Simpson ties that have a maximum impact of 5/16" JCS to send RFI regarding the detail shown on the truss shops calling for rigid insulation on the bottom of the trusses but there is no corresponding drawing or note in the plans to show this. JS: detail pertaining to through-bolts (versus welded bolts)					
3.9	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after reciept of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					
3.10	10	SSDS	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS is doing the gravel and EAI North is doing the piping. Pipe is going to be set on top of the gravel and will dip for the pits. Pipe is on top of the knee walls and the only depression from there is for the pits, so JCS can set the grade now with the stone sumped for depressions. Start backfilling on Friday/Monday. SSDS work to start Wednesday (10/10) Chases for pipes are completed, all the sleeves for the SSDS are the black sleeves going through the haunches. Other sleeves that are trenched out on site are for the sewer lateral, which the plumbers are coming tomorrow (10/5) to start and the electricians are running their stuff now too. Most of the stuff after the electricians can go above the haunch walls.					
3.11	10	Beverages	Ron Rainone **(Hart Howerton)**			Open
	Description: Location of Beverages					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	10	Anchor Bolts				Open
	Description: On 9/27, per site walkthrough, JCS and RR of HH noticed that GGG was using the wrong plans. The correct plans were then given to them for a second time.					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					

JCS Construction Group, Inc.

Meeting #11

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	1	Drainage	Ron Rainone **(Hart Howerton)**			Open
	Description: We would like to look into bringing all building drainage to the existing system in the parking lot to avoid any disturbance to the Golf Course. We also have issues with the existing structures and their ability to implement the design intent.					
7.2	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction.					

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
8.1	11	PCCO #004	John Gruber **(Trump Ferry Point LLC)**	10/ 11/ 2017		Open
	Description: Change order to supply additional 1x10 nominal exterior molding for the column base and AZM-217 for the column base cap.					
	Attachments: PCCO #004.pdf					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Oct 10, 2017 at 12:36 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
No Spec Section	41	0	Anchor Bolt Remedy		Open	Triple G		Christopher James		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/09/2017		10/23/2017	
07 3126 Simulated Slate Roofing	40	0	Ecostar Submittal Package		Open	J&C Building Renovations LLC		Cezary Bartosiewicz		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/09/2017		10/23/2017	
No Spec Section	39	0	Sika		Open	Triple G		Eric Garrido		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/06/2017		10/20/2017	
No Spec Section	31	0	Soil Analytical Reports	Product Information	Open	Triple G		Eric Garrido	09/15/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/16/2017		09/30/2017	
No Spec Section	28	1	Wood Stain Samples	Sample	Open	JCS Millshop		James Falk		Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Void Pending	10/03/2017 10/03/2017	10/03/2017	10/17/2017	
08 5200 Wood Windows	23	1	Window Shop Drawings		Open	Pella Windows and Doors		Robb DeWitt		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/10/2017		10/24/2017	
06 4100 Architectural Wood Casework	19	0	Millwork Drawings	Shop Drawing	Open	JCS Millshop		James Falk	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	
08 1400 Wood Doors	18	0	Interior Doors	Shop Drawing	Open	Church Door		Chuck Sweetman	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Oct 10, 2017 at 12:36 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
51	Coupula	Open	JCS Millshop	Rainone, Ron (Hart Howerton)	10/09/2017	Fiona Rooney	10/12/2017		Rainone, Ron (Hart Howerton)			06 - Carpentry-06110 - Wood Framing - Wood Framing		Wiles, Craig (JCS Millshop)
50	Access Panel	Open	JCS Construction Group, Inc.	Rainone, Ron (Hart Howerton)	10/09/2017	Fiona Rooney	10/12/2017		Rainone, Ron (Hart Howerton)					Shaw, Justin (JCS Construction Group, Inc.)
49	Lead	Open	JCS Construction Group, Inc.	Rainone, Ron (Hart Howerton)	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Hart Howerton)					Shaw, Justin (JCS Construction Group, Inc.)
47	Wine Dispenser	Open	JCS Millshop	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	09/26/2017	Fiona Rooney	09/29/2017		Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Interior Bar				Falk, James (JCS Millshop)
44	Drain pipe in cover layer	Open	JCS Construction Group, Inc.	Rainone, Ron (Hart Howerton)	09/25/2017	Fiona Rooney	09/28/2017		Rainone, Ron (Hart Howerton)					None
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Hart Howerton)	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JCS Construction Group, Inc.)					Wiles, Craig (JCS Millshop)
27	Grade Beam Sleeve Question to GC	Open	A&M Warshaw Plumbing & Heating	Shaw, Justin (JCS Construction Group, Inc.)	08/11/2017	Fiona Rooney	08/14/2017		Rooney, Fiona (JCS Construction Group, Inc.)					Bruno, Cristine (A&M Warshaw Plumbing & Heating)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Hart Howerton)	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Hart Howerton)					Falk, James (JCS Millshop)
14	Load Letter	Open	A&M Warshaw Plumbing & Heating	Rainone, Ron (Hart Howerton)	07/05/2017	Fiona Rooney	07/08/2017		Rooney, Fiona (JCS Construction Group, Inc.)		15 days			Bruno, Cristine (A&M Warshaw Plumbing & Heating)
3	Door Hardware	Open	JCS Construction Group, Inc.	Pusser, Brittany (JCS Construction Group, Inc.)	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS Construction Group, Inc.)					Shaw, Justin (JCS Construction Group, Inc.)

JCS | Construction Group, LLC

TWO-WEEK LOOK AHEAD

October 10th 2017

Project Name: Ferry Point **Job # 16-031** **Weekly Project Meeting Wednesday 10AM**

ACTIVITY	Week 1							Week 2							Comments
DATE:	M 10/09	T 10/10	W 10/11	T 10/12	F 10/13	S 10/14	S 10/15	M 10/16	T 10/17	W 10/18	T 10/19	F 10/20	S 10/21	S 10/22	
Forms		x	x	x	x	x		x	x	x	x	x			Backfill/Rebar/Concrete
Utilities		x	x	x	x	x		x	x						
Backfilling	x	x	x	x	x	x	x	x	x	x	x	x			Compacting/Stone
Inspections									x						Plumbing
EAI								x	x	x	x	x	x		
Inspections									x						Plumbing/Rebar/Concrete
								x	x	x	x	x	x		Mobilize/Erect

44 Homestead Avenue, Stamford, CT 06902 t:(203) 485-9612 f:(203) 724-8884

JCS Construction Group, Inc.

Meeting #13

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 10/25/2017 **MEETING TIME:** 10:00 AM - Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

10.18.17 Project Meeting B.m4a 10.18.17 Project Meeting A.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Evan Comilloni		Tel:	ecomilloni@woodardcurran.com
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Caitlin Pontrella		Tel: (212) 360-3471	caitlin.pontrella@parks.nyc.gov
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Terry Young		Tel:	teryryoung@msn.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept.					
	Previous Meeting Minutes: **10/25/2017:** Parks has submittal package. Ron sent a description and explanation to Parks on why we had to do everything, along with Ownership's letter. Waiting on submittal status and response. Timing for response from Parks is unknown. Detailed Bid Set for bar grill roof, all revised i					

tems. All equipment is pretty much what was in the drawings that JCS has already received. Exception: the 6-burner stove stop has been replaced with a 4 burner. Size of the outside sink was condensed to accommodate decrease in size from 13 to 11 feet. Hand sink is known, but would we need a three-compartment sink? Engineer to advise but per RR, as long as all dishes are sterilized inside building only handwash is needed. JCS needs to know whether there is going to be a grease trap going outside, three-compartment. JG requests a call with Sam Tell to sort out issues, but ownership needs to determine the extent of their outside scope. Pair of cold plates, refrigeration unit for the island, storage, drain boards...

JCS needs to know whether the floor drain going into the grease line or not.

Per JR, there will not be a three-compartment sink in outdoor bar. Theoretically, being that there is cooking going on in that area, someone could dispose of grease in the handwash sink, but the ultimate determination is the engineer's call.

Sam Tell and JCS to put together some budgetary numbers for this scope.

Front stairs are built per the changed (and, as of yet, unapproved) drawings so if PDC decides that they don't like that, we are going to have to do something about that. Per JG, and embellished by RR in his submittal to PDC, these changes were made based on the abundance of safety concerns.

Driveway and Exterior Bar will require a formal submission, most likely in mid-November. Drainage changes and other smaller changes do not require formal submission review by Parks. Parks provide suggestions versus a flat no. There will be a formal letter/endorsement by Parks accompanying the submission. Ownership hopes to have something to give to Caitlin for the driveway in under a week. Per CP, be thorough in explanation because if changes are logical they are more likely to pass.

1.2	11	Earthwork	Dave Keil **(Maser Consulting P.A.)**			Open

Description:
Compaction tests and Soil test results

Previous Meeting Minutes:

10/25/2017:
JCS did receive the plumbing permit from the DOB. Backfilling is ongoing.
Regarding the Shaping layer test results, Maser is still waiting on the Dioxin and Furon analyses, which will be available on the 24th.

Maser has not yet released their final letter on Soil Compaction to F&P but anticipates doing so today. Nothing to worry about in Maser's opinion. Team to push for an approval because we are beyond the point of return when it comes to this stone. JG to get on a call with Joe Tierney at F&P after the meeting. 88% to 98% compaction results.

Maser requests documentation on the quality of the stone that is being shipped from the quarry.

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open

Description:
Review Submittal Log

Previous Meeting Minutes:

10/25/2017:
Open architectural submittals to be returned by RR between 10/23 and 10/25.

Ejector pit, alternate grease trap submittals have been sent to engineers.

3.2	1	Bluestone	Ron Rainone **(Hart Howerton)**			Open

Description:

	Currently waiting on approved samples.					
	Previous Meeting Minutes: **10/25/2017:** Civil: JS to obtain 1'x1' samples of cleft bluestone so that JG can approve based on a "true representation of the color" in order to determine which supplier to use. JG wants the stone to come from a single quarry, so that the mineral makeup and size of the stone is uniform, the wear and tear/color and installation is consistent throughout. Final approval on stone to come from Eric.					
3.3	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after reciept of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					
	Previous Meeting Minutes: **10/25/2017:** JG is anticipating the delivery of a wood stain control sample RR's only comment on Millwork drawings will be that the overall width of the bar to be in accordance with the size that he made the false-wall. Other than that, all Millwork is to be reviewed/signed off on by JG/GS. Where JF made the 60" ADA space at the bar, RR will provide a spec on the code-required knee space beneath so that the die-wall can be brought back a little further in that area.					
3.4	10	SSDS	Ron Rainone **(Hart Howerton)**			Closed
	Description: JCS is doing the gravel and EAI North is doing the piping. Pipe is going to be set on top of the gravel and will dip for the pits. Pipe is on top of the knee walls and the only depression from there is for the pits, so JCS can set the grade now with the stone sumped for depressions. Start backfilling on Friday/Monday. SSDS work to start Wednesday (10/10) Chases for pipes are completed, all the sleeves for the SSDS are the black sleeves going through the haunches. Other sleeves that are trenched out on site are for the sewer lateral, which the plumbers are coming tomorrow (10/5) to start and the electricians are running their stuff now too. Most of the stuff after the electricians can go above the haunch walls.					
	Previous Meeting Minutes: **10/25/2017:** *(None)*					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	13	Roof Trusses	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS requests additional securing detail on the wood stringers. JCS to send RFI about the Simpson ties that have a maximum impact of 5/16" JS: detail pertaining to through-bolts (versus welded bolts) JCS requires direction from F&P					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **10/25/2017:** Woodard and Curran conferenced in: SSDS pit is not yet on schedule. JCS just got the required information from the structural engineer and will put a schedule together. Schedule: JCS will redo two-week look ahead now that we have some structural direction from F&P. Backfilling, plumbing, electrical underground, drainage, concrete and anchor bolt repairs are ongoing; we will schedule surveyors and inspections as soon as possible					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.2	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction.					
	Previous Meeting Minutes: **10/25/2017:** Hernan has yet to respond to the question of DOB-approved electrical drawings. JCS is still waiting on civil, landscaping, structural, landscaping or electrical. The title block sheet still does not accurately reflect the current drawings. JG called Hernan during the meeting with no response.					
7.3	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					
	Previous Meeting Minutes: **10/25/2017:** Front drive: JS would like to buy all hardscape material in one shot. JS requests entry driveway plans (based on potential exterior changes) to determine how to set up the site. Would be ideal to work our way out of the site so that after steel goes up we can set grades, JCS needs to know what height to set the grade. The proposed changes need to be approved by PDC, the cost needs to be approved by Eric. JG to do tissue sketch, for which Hart Howerton is not responsible because this is a landscape and civil drawing change and this all going to cost more money. No catch basins in the way if we open up the bottom. Bag drop, extra electrical and all of the stuff that is not currently on drawings, which JR and JG advised Eric would be an extra charge. JS inquired how we will be proceeding with these types of changes: are we doing drawings, are we doing RFIs, are we doing things on the fly? JG says that he will draw a tissue sketch to give to PDC prior to spending the money to reengineer. Per conversation between JS & F&P, JCS will submit based on plans and then modify the submittals based on site conditions. Submittals to be marked up after the fact.					
7.4	12	Pro Shop				Open
	Description: Interior Design					
	Previous Meeting Minutes: **10/25/2017:** Terry Young working between Gia and Tanya on the fixture and retail needs of the design of the Pro-Shop. The current floor plan is the only For Construction drawing of the Pro Shop, and Ownership bought JCS based on installing all the perimeter fixtures in the POS station. Plan is to have a combination of metal and millwork. The metal supplier is one that TY/GS have worked with previously on other Pro Shops. The concept involves freestanding millwork that anchors on the wall, going about 12' high, discussing potential of					

	a rolling ladder going across a fixed shelf at about 8' and another 4' of shelving on top of that. Fixture finish still to be determined. Per JG, we cannot go over the dollar value assigned to the Pro Shop without GS going in front of Eric and requesting additional funds. JCS' scope includes anything that would be attached to a wall and the cash wrap station. Free standing floor fixtures are predominantly metal with the exception of wooden tables. This metal is not in JCS' scope. Integrated millwork that attaches to the wall with some flexibility. TY can send drawings. TY had been working with JF at JCSMS, who has the original schematic drawings for the Pro Shop which was designed to look like the Bar. Interior design team to simplify the details but use the same wood. Would be ideal to have JCS build the millwork component. JF's perimeter drawings to be the driving force of design and construction, TY to insert what he wants into these Millwork shop drawings, rather than the opposite. JG to be cc'd on all correspondence. TY/GS' drawings for Interior Layout and elevations are almost complete for this. Eric would not want the mirrors cladded on the columns in the Pro Shop to obscure the view. Cladding Columns in white raised millwork panels. TY to provide JF with any details and dimensions that he would need to input into his drawings.

JCS Construction Group, LLC

TWO-WEEK LOOK AHEAD

October 18th 2017

Project Name: Ferry Point **Job # 16-031** **Weekly Project Meeting Thursday 10AM**

ACTIVITY	Week 1							Week 2							Comments
DATE:	Mon. 10/23	Tues. 10/24	Wed. 10/25	Thurs. 10/26	Fri. 10/27	Sat. 10/28	Sun. 10/29	Mon. 10/30	Tues 10/31	Wed. 11/01	Thurs. 11/02	Fri. 11/03	Sat. 11/04	Sun. 11/05	
Rebar			x	x											Patio
Utilities		x	x	x	x	x		x	x	x					Plumbing
Backfilling	x	x	x	x	x	x		x	x	x	x	x	x		Stone
Inspections					x				x			x			Plumbing
Steel				x											Survey
EAI								x	x	x	x	x			Complete by 11/04
Concrete								x							Patio
Maser			x		x			x							Rebar/Repairs/Concrete

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JCS Construction Group, Inc.

JCS Construction Group Inc

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Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
No Spec Section	45	0	Palight	Product Information	Open	JCS Millshop		James Falk		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/23/2017		11/06/2017	
No Spec Section	43	0	Proposed Alternate Grease Trap		Open	A&M Warshaw Plumbing & Heating	10/19/2017	Cristine Bruno	10/16/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/16/2017		10/30/2017	
No Spec Section	42	0	Submittal for Sakarete Repairs		Open	Triple G		Eric Garrido		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending			10/25/2017	
07 3126 Simulated Slate Roofing	40	0	Ecostar Submittal Package		Open	J&C Building Renovations LLC		Cezary Bartosiewicz		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/09/2017		10/23/2017	
No Spec Section	31	0	Soil Analytical Reports	Product Information	Open	Triple G		Eric Garrido	09/15/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	09/16/2017		09/30/2017	
No Spec Section	30	1	Ejector Pump and Pit	Shop Drawing	Open	JCS Construction Group, Inc.	10/18/2017	Justin Shaw		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/13/2017		10/27/2017	
05 3100 Steel Decking	29	1	Deck Drawings	Shop Drawing	Open	Schiavo Steel Co. Inc.		Bart Schiavo		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/20/2017		11/03/2017	
No Spec Section	28	1	Wood Stain Samples	Sample	Open	JCS Millshop		James Falk		Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Void Pending	10/03/2017 10/03/2017	10/03/2017	10/17/2017	
06 4100 Architectural Wood Casework	19	2	Millwork Drawings	Shop Drawing	Open	JCS Millshop	10/25/2017	James Falk		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending			11/03/2017	
06 4100 Architectural Wood Casework	19	0	Millwork Drawings	Shop Drawing	Open	JCS Millshop		James Falk	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	
08 1400 Wood Doors	18	0	Interior Doors	Shop Drawing	Open	Church Door		Chuck Sweetman	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Oct 24, 2017 at 04:07 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
50	Access Panel	Open	JCS Construction Group, Inc.	Rainone, Ron (Hart Howerton)	10/09/2017	Fiona Rooney	10/12/2017		Rainone, Ron (Hart Howerton)					Shaw, Justin (JCS Construction Group, Inc.)
49	Lead	Open	JCS Construction Group, Inc.	Rainone, Ron (Hart Howerton)	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Hart Howerton)					Shaw, Justin (JCS Construction Group, Inc.)
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Hart Howerton)	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JCS Construction Group, Inc.)					Wiles, Craig (JCS Millshop)
27	Grade Beam Sleeve Question to GC	Open	A&M Warshaw Plumbing & Heating	Shaw, Justin (JCS Construction Group, Inc.)	08/11/2017	Fiona Rooney	08/14/2017		Rooney, Fiona (JCS Construction Group, Inc.)					Bruno, Cristine (A&M Warshaw Plumbing & Heating)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Hart Howerton)	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Hart Howerton)					Falk, James (JCS Millshop)
14	Load Letter	Open	A&M Warshaw Plumbing & Heating	Rainone, Ron (Hart Howerton)	07/05/2017	Fiona Rooney	07/08/2017		Rooney, Fiona (JCS Construction Group, Inc.)		15 days			Bruno, Cristine (A&M Warshaw Plumbing & Heating)
3	Door Hardware	Open	JCS Construction Group, Inc.	Pusser, Brittany (JCS Construction Group, Inc.)	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS Construction Group, Inc.)					Shaw, Justin (JCS Construction Group, Inc.)

JCS Construction Group, Inc.

Meeting #14

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 11/01/2017 **MEETING TIME:** 10:00 AM - Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

10.25.17 Project Meeting.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Evan Comilloni		Tel:	ecomilloni@woodardcurran.com
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Melissa Noto		Tel:	mnoto@trumporg.com
Caitlin Pontrella		Tel: (212) 360-3471	caitlin.pontrella@parks.nyc.gov
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept.					
	Previous Meeting Minutes: **10/25/2017:** *(None)*					
1.2	11	Earthwork	Dave Keil **(Maser Consulting P.A.)**			Open
	Description:					

	Compaction tests and Soil test results					
	Previous Meeting Minutes: **10/25/2017:** DK received the shaping materials test results during the meeting. Preliminary glance looks ok. JCS will get report from Maser and forward to W&C					
1.3	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: JG brought Sponzilli's the first-round draft of landscape drawing, LP-1. New design will allow for functional, safer traffic flow and increased ADA compliance at driveway. Undecided where the bag drop will be. This drawing has been sent to Ron. On first glance, Joe Conforti of NYC Parks agrees that this is a more functional design but will need to bring it to PDC for formal approval. Trump to take one more step on their end then they will push it back to landscape architect to do a more formal presentation that will then go to PDC.					
	Previous Meeting Minutes: **10/25/2017:** *(None)*					

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open
	Description: Review Submittal Log					
	Previous Meeting Minutes: **10/25/2017:** *(None)*					
3.2	1	Bluestone	Ron Rainone **(Hart Howerton)**			Open
	Description: Currently waiting on approved samples.					
	Previous Meeting Minutes: **10/25/2017:** Back paving area: JCS will not set the catch basin for now, will determine location later. Elevation issue is, as of yet, unresolved. Staging area for carts is undetermined. Exterior changes include: Grill, Bar, Back of Clubhouse/staging area, venting, roof changes and locations, grill is now going underneath the overhang, Horseshoe bar ties into the columns and has been approved by Eric Trump					
3.3	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after reciept of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					
	Previous Meeting Minutes: **10/25/2017:** Exterior bar to be white painted Azek.					

	Wood Finish: Oak control sample provided by GS, Millshop can now provide samples for color selection, which will go to Eric Trump for final approval. • Fire retardant wood will change finish color. Does code for NYC require this? Per GS, she is legally required to write this in her specs, but it just has to abide by local code. Whoever is doing the case goods will figure that out. Per JS and JS, because the building is sprinklered this is unnecessary. • Interior designer no longer wants walnut, does not care what species it is, defers to JG Plain sawn white oak stained to match color of sample given to JCS, whichever species of wood doesn't matter to GS. GS wants full grain. Will not be going with full fill, so the specs provided will be revised and distributed by EOD. Once GS determines spec, this will be the control sample for all wood.					
3.5	13	Stone Tops	Giavona Sullivan **(The Trump Organization)**			Open
	Description: There is no extra material at Ivanka's. GS brought with her the Calcutta stone sample. Per JG, Breccia being held in Italy for the locker rooms. GS rejected the 2 synthetic marble samples provided by JG. Synthetic is a quartz material, considerably cheaper, durable, doesn't have the salt and peppering that one gets with Calcutta, considerably cheaper alternative. Outdoor stone/Marble spec would be used for front bar, back bar, cash wrap/check-in, all tops in pro-shop. JG's concern is the durability. GS suggests a protective membrane, but this will peel over time. GS will initial the Calcutta. Chip in marble is a safety/liability. GS prefers waterfall edge if she can get ET to approve.					
	Previous Meeting Minutes: **10/25/2017:** *(None)*					
3.6	13	Chandeliers/Fixtures				Open
	Description: GS received sections from HH and measured chandeliers to fit 18' ceilings. Ballroom ceilings and Grill Room ceilings are 18'. Hang chandeliers on highest coffer/beam of the ceilings Specified chandeliers are $15K per quote acquired by Melissa Noto and weigh 750 lbs. The trusses will not support this weight. The flat ceilings in the pro shop can support the weight but the ceilings in the other locations may not. 176 lbs (3x) Chandeliers will come with a threaded rod, secure with air craft cable to prevent the fixture from coming loose. Spread a Kindorf inside a gem box, threaded rod through the gem box and run the aircraft cable with the wires into the ceiling. GS spoke to Isabella at HH who confirmed that HH is not contracted to do any interior fit out work, as per plans and specs, so there are no RCPs. JF has created the roof and ceiling details. Interior columns are big enough to hang chandeliers, all they need to be is big enough to hold a gem box. Pro Shop chandeliers to be Schonbek. Need to have a section in the ceiling that is removable so that the HVAC equipment can be accessed as needed. Per JG, instead of an access panel, Justin will design something that can come apart fairly easily so that it doesn't impact the location of the fixtures. This fixture will be 60" by 60" by 60".					
	Previous Meeting Minutes: **10/25/2017:** *(None)*					
3.7	13	Coordination PLans	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Since HH isn't contracted to do elevations, the Millwork shop drawings show the locations and look of the crown moldings which were sent to GS for approval (still pending, as GS needs to set up Procore account to approve/markup submittals and access all drawings and RFIs). GS to markup Millwork bar shops to reflect the locations and coordination of GFI wired lamps. GS to provide a sample of bar lamp. Per GS/JG, electrical contractor to use millwork drawings as his plans for wiring the GFI at the bar. GS and JCS to create a laundry list of items that need to be specified, and what is needed from either side, as the coordination plans are not in anybody's scope and this has not been talked about. As per their previous experiences in Trump projects, it will fall on GS & JG to get the coordination issues squared away. Submittal workflow will move from RR to JG/GS. GS/JG to sign off on Millwork drawings. Markups to include every detail from epoxy, drink rail, USB ports, etc.					

	Previous Meeting Minutes: **10/25/2017:** *(None)*					
3.8	13	Carpet	Giavona Sullivan **(The Trump Organization)**, John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Carpet installation, GS and JG specify double stick.					
	Previous Meeting Minutes: **10/25/2017:** *(None)*					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	13	Roof Trusses	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS requests additional securing detail on the wood stringers. JCS to send RFI about the Simpson ties that have a maximum impact of 5/16" JS: detail pertaining to through-bolts (versus welded bolts) JCS requires direction from F&P					
	Previous Meeting Minutes: **10/25/2017:** Jim Falk sent out drawings for cupola trusses, which JS sent to RR for initial approval. After RR provides feedback, JS will send these out as official. Basically, if we remove the top chord and make them all a 3x8 and then extend it all the way through ad then scab on ½" plywood to make up the difference in the truss width and then gusset the two together then we have at least a full rafter tail on the entire thing, then we don't have to do different connections. Connection detail for plate locations and bolt locations is approximately 4000 holes, and would require framer to shoot the Hilti nails into the steel, mark it, countersink and drill a hole to put a bolt on it. RR said last week to countersink the plate but this is not a viable solution.					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **10/25/2017:** Rebar guys didn't show up due to forecasted rain, which will potentially push back Maser's rebar inspection. Still waiting on F&P to release compaction approval. Friday plumbing inspections, Wednesday EAI is starting work					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.2	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction.					
	Previous Meeting Minutes: **10/25/2017:** Hernan has yet to respond to the question of DOB-approved electrical drawings. JCS is still waiting on civil, landscaping, structural, landscaping or electrical. The title block sheet still does not accurately reflect the current drawings. JG and JR called Hernan during 10/18 meeting with no response.					
7.3	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					
	Previous Meeting Minutes: **10/25/2017:** Front drive: JS would like to buy all hardscape material in one shot. JS requests entry driveway plans (based on potential exterior changes) to determine how to set up the site. Would be ideal to work our way out of the site so that after steel goes up we can set grades, JCS needs to know what height to set the grade. The proposed changes need to be approved by PDC, the cost needs to be approved by Eric. JG to do tissue sketch, for which Hart Howerton is not responsible because this is a landscape and civil drawing change and this all going to cost more money. No catch basins in the way if we open up the bottom. Bag drop, extra electrical and all of the stuff that is not currently on drawings, which JR and JG advised Eric would be an extra charge. JS inquired how we will be proceeding with these types of changes: are we doing drawings, are we doing RFIs, are we doing things on the fly? JG says that he will draw a tissue sketch to give to PDC prior to spending the money to reengineer. Per conversation between JS & F&P, JCS will submit based on plans and then modify the submittals based on site conditions. Submittals to be marked up after the fact.					
7.4	12	Pro Shop				Open
	Description: Interior Design					
	Previous Meeting Minutes: **10/25/2017:** Millwork drawings to be reviewed and marked up for approval by GS and JG					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Oct 31, 2017 at 04:13 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
50	Access Panel	Open	JCS Construction ...	Rainone, Ron (Har...	10/09/2017	Fiona Rooney	10/12/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
49	Lead	Open	JCS Construction ...	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Har...	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JC...					Wiles, Craig (JCS Millshop)
27	Grade Beam Sleeve Question to GC	Open	A&M Warshaw Plumb...	Shaw, Justin (JCS...	08/11/2017	Fiona Rooney	08/14/2017		Rooney, Fiona (JC...					Bruno, Cristine (A&M Warshaw Plumbing & Heating)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...					Falk, James (JCS Millshop)
14	Load Letter	Open	A&M Warshaw Plumb...	Rainone, Ron (Har...	07/05/2017	Fiona Rooney	07/08/2017		Rooney, Fiona (JC...		15 days			Bruno, Cristine (A&M Warshaw Plumbing & Heating)
3	Door Hardware	Open	JCS Construction ...	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Oct 31, 2017 at 04:14 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
No Spec Section	47	0	Typical Molding Details	Shop Drawing	Open	JCS Millshop		James Falk		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending	10/30/2017 10/30/2017		11/13/2017	
No Spec Section	46	0	Typical Trim Detail for Columns and Ceiling	Shop Drawing	Open	JCS Millshop		James Falk		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending	10/30/2017 10/30/2017		11/13/2017	
No Spec Section	42	0	Submittal for Sakarete Repairs		Open	Triple G		Eric Garrido		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending			10/25/2017	
07 3126 Simulated Slate Roofing	40	1	Ecostar Submittal Package	Product Information	Open	J&C Building Renovations LLC		Cezary Bartosiewicz		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/30/2017		11/13/2017	
06 4100 Architectural Wood Casework	19	2	Millwork Drawings	Shop Drawing	Open	JCS Millshop	10/25/2017	James Falk		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending			11/03/2017	
06 4100 Architectural Wood Casework	19	0	Millwork Drawings	Shop Drawing	Open	JCS Millshop		James Falk	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	

JCS | Construction Group, Inc.

Meeting #15

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 11/08/2017 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

11.1.17 Project Meeting.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Evan Comilloni		Tel:	ecomilloni@woodardcurran.com
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Melissa Noto		Tel:	mnoto@trumporg.com
Caitlin Pontrella		Tel: (212) 360-3471	caitlin.pontrella@parks.nyc.gov
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept.					
	Previous Meeting Minutes: **11/01/2017:** Regarding outdoor grill, we will need to pipe to old location and new location in case PDC says no to proposed plans. Ron to forward files to F&P and then Hernan will get those plans approved by the City. JG does not want to wait for PDC approval before sending these to the city.					

1.2	11	Earthwork	Dave Keil **(Maser Consulting P.A.)**			Open
	Description: Compaction tests and Soil test results					
	Previous Meeting Minutes: **11/01/2017:** Everything for W&C has been satisfied. We have fill and compaction approvals, everything soil related has been approved Underslab SSDS piping scheduled for Thursday so if W&C wants to be here they need to have someone onsite to do witness. Maser is going to be present throughout the process. EAI is also laying the pipes. Maser to send out DFPs per usual for Parks & W&C to review. Shaping layer material: Material to be brought in as needed so as not to jam-up the site. Trucking manifest for each load of soil signed by driver, source generator, Maser to sign manifest stating that they did a PID scan and a visual scan. W&C to provide a manifest template to Maser.					
1.3	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: JG brought Sponzilli's the first-round draft of landscape drawing, LP-1. New design will allow for functional, safer traffic flow and increased ADA compliance at driveway. Undecided where the bag drop will be. This drawing has been sent to Ron. On first glance, Joe Conforti of NYC Parks agrees that this is a more functional design but will need to bring it to PDC for formal approval. Trump to take one more step on their end then they will push it back to landscape architect to do a more formal presentation that will then go to PDC.					
	Previous Meeting Minutes: **11/01/2017:** *(None)*					

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open
	Description: Review Submittal Log					
	Previous Meeting Minutes: **11/01/2017:** *(None)*					
3.2	1	Bluestone	Ron Rainone **(Hart Howerton)**			Open
	Description: Currently waiting on larger samples from the supplier					
	Previous Meeting Minutes: **11/01/2017:** *(None)*					
3.3	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after reciept of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					

	Previous Meeting Minutes: **11/01/2017:** GS' sample is reddish while the inspiration pictures are a darker brown/mocha. Soffit Detail: JG provided a contact for Melton Classics who can cast corbels if necessary. Chuck Hicks: (770) 963-3060 mike@meltonclassics.com Typical Millshop Details: GS' comments Instead of beadboard GS wants V-Groove. Either MDF or poplar board. This can just be flipped over to show the V-Groove. Corbel rejected. JG to review submittals with GS today and get that back to JCS.					
3.5	13	Stone Tops	Giavona Sullivan **(The Trump Organization)**			Open
	Description: There is no extra material at Ivanka's. GS brought with her the Calcutta stone sample. Per JG, Breccia being held in Italy for the locker rooms. GS rejected the 2 synthetic marble samples provided by JG. Synthetic is a quartz material, considerably cheaper, durable, doesn't have the salt and peppering that one gets with Calcutta, considerably cheaper alternative. Outdoor stone/Marble spec would be used for front bar, back bar, cash wrap/check-in, all tops in pro-shop. JG's concern is the durability. GS suggests a protective membrane, but this will peel over time. GS will initial the Calcutta. Chip in marble is a safety/liability. GS prefers waterfall edge if she can get ET to approve.					
	Previous Meeting Minutes: **11/01/2017:** Final specification still needed.					
3.6	13	Chandeliers/Fixtures				Open
	Description: GS received sections from HH and measured chandeliers to fit 18' ceilings. Ballroom ceilings and Grill Room ceilings are 18'. Hang chandeliers on highest coffer/beam of the ceilings Specified chandeliers are $15K per quote acquired by Melissa Noto and weigh 750 lbs. The trusses will not support this weight. The flat ceilings in the pro shop can support the weight but the ceilings in the other locations may not. 176 lbs (3x) Chandeliers will come with a threaded rod, secure with air craft cable to prevent the fixture from coming loose. Spread a Kindorf inside a gem box, threaded rod through the gem box and run the aircraft cable with the wires into the ceiling. GS spoke to Isabella at HH who confirmed that HH is not contracted to do any interior fit out work, as per plans and specs, so there are no RCPs. JF has created the roof and ceiling details. Interior columns are big enough to hang chandeliers, all they need to be is big enough to hold a gem box. Pro Shop chandeliers to be Schonbek. Need to have a section in the ceiling that is removable so that the HVAC equipment can be accessed as needed. Per JG, instead of an access panel, Justin will design something that can come apart fairly easily so that it doesn't impact the location of the fixtures. This fixture will be 60" by 60" by 60".					
	Previous Meeting Minutes: **11/01/2017:** Final specification still needed.					
3.7	13	Coordination PLans	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Since HH isn't contracted to do elevations, the Millwork shop drawings show the locations and look of the crown moldings which were sent to GS for approval (still pending, as GS needs to set up Procore account to approve/markup submittals and access all drawings and RFIs). GS to markup Millwork bar shops to reflect the locations and coordination of GFI wired lamps. GS to provide a sample of bar lamp. Per GS/JG, electrical contractor to use millwork drawings as his plans for wiring the GFI at the bar. GS and JCS to create a laundry list of items that need to be specified, and what is needed from either side, as the coordination plans are not in anybody's scope and this has not been talked about. As per their previous experiences in Trump projects, it will fall on GS & JG to get the coordination issues squared away. Submittal workflow will move from RR to JG/GS. GS/JG to sign off on Millwork drawings. Markups to include every detail from epoxy, drink rail, USB ports, etc.					

	Previous Meeting Minutes: **11/01/2017:** *(None)*					
3.8	13	Carpet	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**			Open
	Description: Carpet installation, GS and JG specify double stick.					
	Previous Meeting Minutes: **11/01/2017:** Final specification still needed.					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	13	Roof Trusses	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS requests additional securing detail on the wood stringers. JCS to send RFI about the Simpson ties that have a maximum impact of 5/16" JS: detail pertaining to through-bolts (versus welded bolts) JCS requires direction from F&P					
	Previous Meeting Minutes: **11/01/2017:** Connection detail for the tube steel plate. As it is, we would have to shoot everything 12" on center, countersink, and then drill a main hole through the countersunk hole, which is 3 steps to do a one-step thing. The tops of the beams are okay—they will be bolted. JCS to issue an official RFI pertaining to the tube steel specifically. Staggered 12" on center (per details on S-500.00). JCS to obtain 2009 code compliant calculations for the cupula changes from the manufacturer. No one is providing the permanent bracing plan, this has not been requested as a submittal form the engineers.					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	14	Plumbing Fixtures	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: JG is meeting with Kohler rep immediately after this meeting to discuss plumbing fixtures. Will be using floor mounted flush valve toilets.					
	Previous Meeting Minutes: **11/01/2017:** *(None)*					
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					

	Previous Meeting Minutes: **11/01/2017:** *(None)*

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **11/01/2017:** Maser spoke to manufacturer of liquid boot who said that the boot can be poured at 35F and rising. JS might try to box the bar and kitchen areas because we need to have that inspected and we cant put the plumbing in for it now until the inspection on Friday so we cannot do the plumbing until Monday.					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.2	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction.					
	Previous Meeting Minutes: **11/01/2017:** Hernan Rojas brought a set of drawings stamped by the DOB. DOB does not require stamped electrical drawings onsite because the electrician files his own plans with the DOB and pulls his own permits with the city, which are then approved separately from the rest of the drawings/scope. Sprinkler, Public Assembly and Fire Alarm to be filed separately. Whatever civil drawings we may have were a part of the original drawings that included a basement. These plans have changed since we received approval from DOB, JG to determine how to go about having the revisions approved/submitted. Still need Structural and Civil from HR. Two-week turn around for drawings that have not been received by the DOB. Steel erection is scheduled for the 15th and inspections will need to be called in for the end of the month. Civil, structural, plumbing, electrical, sprinkler, HVAC. RR to print the full-sized set and bill JR from the electronic copy HR sent to JR.					
7.3	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					
	Previous Meeting Minutes: **11/01/2017:** JR and JG to go over the exterior redesign one more time, incorporating ET's comments and then have Sponzilli redraw it. Need to create some kind of podium and determine the material (wood frame vs. masonry, canvas vs. hard roof?) and location. Need to bring power and communications out there, where IT closet is currently located, put two 2" adjacent to that and bring it out to podium from there for lighting, computer and maybe heating. Maybe need 2-3 circuits.					
7.4	12	Pro Shop				Open
	Description: Interior Design					

	Previous Meeting Minutes: **11/01/2017:** *(None)*

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Nov 7, 2017 at 03:51 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
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49	Lead	Open	JCS Construction ...	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Har...	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JC...					Wiles, Craig (JCS Millshop)
27	Grade Beam Sleeve Question to GC	Open	A&M Warshaw Plumb...	Shaw, Justin (JCS...	08/11/2017	Fiona Rooney	08/14/2017		Rooney, Fiona (JC...					Bruno, Cristine (A&M Warshaw Plumbing & Heating)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...					Falk, James (JCS Millshop)
14	Load Letter	Open	A&M Warshaw Plumb...	Rainone, Ron (Har...	07/05/2017	Fiona Rooney	07/08/2017		Rooney, Fiona (JC...		15 days			Bruno, Cristine (A&M Warshaw Plumbing & Heating)
3	Door Hardware	Open	JCS Construction ...	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Nov 7, 2017 at 03:51 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
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No Spec Section	46	0	Typical Trim Detail for Columns and Ceiling	Shop Drawing	Open	JCS Millshop		James Falk		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending	10/30/2017 10/30/2017		11/13/2017	
No Spec Section	42	0	Submittal for Sakarete Repairs		Open	Triple G		Eric Garrido		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending			10/25/2017	
07 3126 Simulated Slate Roofing	40	1	Ecostar Submittal Package	Product Information	Open	J&C Building Renovations LLC		Cezary Bartosiewicz		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/30/2017		11/13/2017	
06 4100 Architectural Wood Casework	19	2	Millwork Drawings	Shop Drawing	Open	JCS Millshop	10/25/2017	James Falk		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending			11/03/2017	
06 4100 Architectural Wood Casework	19	0	Millwork Drawings	Shop Drawing	Open	JCS Millshop		James Falk	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	

Kevin Dwyer
732 312-5800
908 702 1613

JCS | Construction Group, Inc.

Meeting #16

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Kevin.dwyer@fpa engineers.com

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 11/08/2017

MEETING TIME: 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Project Meeting 11-8-17.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Evan Comilloni		Tel:	ecomilloni@woodardcurran.com
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Melissa Noto		Tel:	mnoto@trumporg.com
Caitlin Pontrella		Tel: (212) 360-3471	caitlin.pontrella@parks.nyc.gov
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept.					
	Previous Meeting Minutes: **11/15/2017:** Final package of rear outside changes have been sent to Parks, the front has not been submitted to Parks.\					

1.2	11	Earthwork	Dave Keil **(Maser Consulting P.A.)**			Open
	Description: Compaction tests and Soil test results					
	Previous Meeting Minutes: **11/15/2017:** Maser to continue to send erosion control reports along with DFRs. W&C and Maser have not received the letter from F&P. W&C owes Maser templates for soil manifests. Soil not needed onsite at this time. Will be delivered as needed. Maser's reports on SSDS should continue to document any and all deviations from drawings, re3dline drawings/as-builts. Sign off on deviations from F&P as the original designer of the SSDS. This will be in the cert report but it is not something that Maser is certifying. JG and DK to coordinate this with F&P.					
1.3	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: JG brought Sponzilli's the first-round draft of landscape drawing, LP-1. New design will allow for functional, safer traffic flow and increased ADA compliance at driveway. Undecided where the bag drop will be. This drawing has been sent to Ron. On first glance, Joe Conforti of NYC Parks agrees that this is a more functional design but will need to bring it to PDC for formal approval. Trump to take one more step on their end then they will push it back to landscape architect to do a more formal presentation that will then go to PDC.					
	Previous Meeting Minutes: **11/15/2017:** ET is going to be onsite on Friday. JS can meet with ownership and ET to discuss location of transformer in relation to the turning circle and associated elevations.					

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open
	Description: Review Submittal Log					
	Previous Meeting Minutes: **11/15/2017:** Window shops have been resubmitted, should be a quick turnaround because there was only a minor change in the resubmission. Three egress doors (104B, 103C, 101A) need to have ADA sills and require 3rd party certification or leave it as is sign off on JCS not being responsible for wind loads. need to have ownership determine how to proceed with sills as often ADA sills present the hazard of rain water to enter building,					
3.2	1	Bluestone	Ron Rainone **(Hart Howerton)**			Open
	Description: Currently waiting on larger samples from the supplier					
	Previous Meeting Minutes: **11/15/2017:** *(None)*					
3.3	9	Millwork	Ron Rainone **(Hart Howerton)**			Open

	Description: JCS Millshop requires at least 2 weeks after reciept of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					
	Previous Meeting Minutes: **11/15/2017:** Interior millwork sample of flat-sawn ash has an open cathedral grain and, per JG, looks similar to the furniture used throughout other Trump properties so will mostly be approved.					
3.5	13	Stone Tops	Giavona Sullivan **(The Trump Organization)**			Open
	Description: There is no extra material at Ivanka's. GS brought with her the Calcutta stone sample. Per JG, Breccia being held in Italy for the locker rooms. GS rejected the 2 synthetic marble samples provided by JG. Synthetic is a quartz material, considerably cheaper, durable, doesn't have the salt and peppering that one gets with Calcutta, considerably cheaper alternative. Outdoor stone/Marble spec would be used for front bar, back bar, cash wrap/check-in, all tops in pro-shop. JG's concern is the durability. GS suggests a protective membrane, but this will peel over time. GS will initial the Calcutta. Chip in marble is a safety/liability. GS prefers waterfall edge if she can get ET to approve.					
	Previous Meeting Minutes: **11/15/2017:** Final specification still needed.					
3.6	13	Chandeliers/Fixtures				Open
	Description: GS received sections from HH and measured chandeliers to fit 18' ceilings. Ballroom ceilings and Grill Room ceilings are 18'. Hang chandeliers on highest coffer/beam of the ceilings Specified chandeliers are $15K per quote acquired by Melissa Noto and weigh 750 lbs. The trusses will not support this weight. The flat ceilings in the pro shop can support the weight but the ceilings in the other locations may not. 176 lbs (3x) Chandeliers will come with a threaded rod, secure with air craft cable to prevent the fixture from coming loose. Spread a Kindorf inside a gem box, threaded rod through the gem box and run the aircraft cable with the wires into the ceiling. GS spoke to Isabella at HH who confirmed that HH is not contracted to do any interior fit out work, as per plans and specs, so there are no RCPs. JF has created the roof and ceiling details. Interior columns are big enough to hang chandeliers, all they need to be is big enough to hold a gem box. Pro Shop chandeliers to be Schonbek. Need to have a section in the ceiling that is removable so that the HVAC equipment can be accessed as needed. Per JG, instead of an access panel, Justin will design something that can come apart fairly easily so that it doesn't impact the location of the fixtures. This fixture will be 60" by 60" by 60".					
	Previous Meeting Minutes: **11/15/2017:** Final specification still needed.					
3.7	13	Coordination PLans	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Since HH isn't contracted to do elevations, the Millwork shop drawings show the locations and look of the crown moldings which were sent to GS for approval (still pending, as GS needs to set up Procore account to approve/markup submittals and access all drawings and RFIs). GS to markup Millwork bar shops to reflect the locations and coordination of GFI wired lamps. GS to provide a sample of bar lamp. Per GS/JG, electrical contractor to use millwork drawings as his plans for wiring the GFI at the bar. GS and JCS to create a laundry list of items that need to be specified, and what is needed from either side, as the coordination plans are not in anybody's scope and this has not been talked about. As per their previous experiences in Trump projects, it will fall on GS & JG to get the coordination issues squared away. Submittal workflow will move from RR to JG/GS. GS/JG to sign off on Millwork drawings. Markups to include every detail from epoxy, drink rail, USB ports, etc.					

	Previous Meeting Minutes: **11/15/2017:** *(None)*					
3.8	13	Carpet	Giavona Sullivan **(The Trump Organization)**, John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Carpet installation, GS and JG specify double stick.					
	Previous Meeting Minutes: **11/15/2017:** Final specification still needed.					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	13	Roof Trusses	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS requests additional securing detail on the wood stringers. JCS to send RFI about the Simpson ties that have a maximum impact of 5/16" JS: detail pertaining to through-bolts (versus welded bolts) JCS requires direction from F&P					
	Previous Meeting Minutes: **11/15/2017:** Cupula framing issue: everything aesthetic solution that JCS sends to design team as a means of remedying the off-center rafters is returned with an off-center structural review/notes. Original design didn't work, new designs work from a structural standpoint but not aesthetic. JCS submitted an on-center option. Truss manufacturer will not certify trusses that are not designed by their team.					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	14	Plumbing Fixtures	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: JG is meeting with Kohler rep immediately after this meeting to discuss plumbing fixtures. Will be using floor mounted flush valve toilets.					
	Previous Meeting Minutes: **11/15/2017:** Plumbing fixtures will be left in warehouse and delivered to site in JCS' care as needed.					
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **11/15/2017:** *(None)*					

JCS Construction Group, Inc.

Meeting #16

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open

Description:
Review two week look ahead. 3-4 Weeks

Previous Meeting Minutes:

11/15/2017:
Liquid boot installation has begun.
Boot, pouring back slab and wall adjacent to the loading dock, steel tentatively still schedule for next week. Rest of the slab is still scheduled for next week as well, along with all stairs but pouring the ramps is on hold due to potential changes in elevations. Assume the back grade is not changing, although JR might want to change it, Grades still not established for cart paths to be installed per JG 11/14/17
Wood framing is ongoing.
There will potential hold ups if submittals are not reviewed and returned by the proper parties in a timely fashion.

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.2	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open

Description:
JCS has yet to receive Civil drawings For Construction.

Previous Meeting Minutes:

11/15/2017: *(None)*

7.3	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open

Description:
Additional/Changes to Design and Scope

Previous Meeting Minutes:

11/15/2017:
JR and JG to go over the exterior redesign one more time, incorporating ET's comments and then have Sponzilli redraw it. Need to create some kind of podium and determine the material (wood frame vs. masonry, canvas vs. hard roof?) and location. Need to bring power and communications out there, where IT closet is currently located, put two 2" adjacent to that and bring it out to podium from there for lighting, computer and maybe heating. Maybe need 2-3 circuits.

7.4	12	Pro Shop				Open

Description:
Interior Design

Previous Meeting Minutes:

11/15/2017: *(None)*

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Nov 14, 2017 at 03:45 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
06 4100 Architectural Wood Casework	48	0	Exterior Pilasters	Shop Drawing	Open	JCS Millshop		James Falk		Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending	11/08/2017		11/22/2017	
06 4100 Architectural Wood Casework	47	0	Typical Molding Details	Shop Drawing	Open	JCS Millshop		James Falk		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending	10/30/2017 10/30/2017		11/13/2017	
06 4100 Architectural Wood Casework	46	0	Typical Trim Detail for Columns and Ceiling	Shop Drawing	Open	JCS Millshop		James Falk		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending	10/30/2017 10/30/2017		11/13/2017	
No Spec Section	42	0	Submittal for Sakarete Repairs		Open	Triple G		Eric Garrido		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending			10/25/2017	
07 3126 Simulated Slate Roofing	40	1	Ecostar Submittal Package	Product Information	Open	J&C Building Renovations LLC		Cezary Bartosiewicz		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	10/30/2017		11/13/2017	
08 5200 Wood Windows	23	2	Window Shop Drawings	Shop Drawing	Open	Pella Windows and Doors		Robb DeWitt		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	11/08/2017		11/22/2017	
06 4100 Architectural Wood Casework	19	2	Millwork Drawings	Shop Drawing	Open	JCS Millshop	10/25/2017	James Falk		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending	11/14/2017 11/14/2017		11/03/2017	
06 4100 Architectural Wood Casework	19	0	Millwork Drawings	Shop Drawing	Open	JCS Millshop		James Falk	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	
08 1400 Wood Doors	18	1	Interior Doors	Shop Drawing	Open	Church Door	11/28/2017	Chuck Sweetman	11/13/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	11/13/2017		11/27/2017	

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Nov 14, 2017 at 03:50 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
55	Translucent Glass Panels	Open		Rainone, Ron (Har...	11/10/2017	Justin Shaw	11/13/2017		Shaw, Justin (JCS...					None
54	Rise and Run Dimensions Requested	Open	Triple G	Rainone, Ron (Har...	11/08/2017	Fiona Rooney	11/11/2017		Rooney, Fiona (JC...					Garrido, Eric (Triple G)
53	CFM Roof Framing Connection	Open	JCS Construction ...	Rainone, Ron (Har...	11/07/2017	Justin Shaw	11/10/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)
51	Coupula	Open	JCS Millshop	Rainone, Ron (Har...	10/09/2017	Fiona Rooney	10/12/2017		Rooney, Fiona (JC...			06 - Carpentry-06110 - Wood Framing - Wood Framing		Wiles, Craig (JCS Millshop)
50	Access Panel	Open	JCS Construction ...	Rainone, Ron (Har...	10/09/2017	Fiona Rooney	10/12/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
49	Leaders	Open	JCS Construction ...	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Har...	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JC...					Wiles, Craig (JCS Millshop)
27	Grade Beam Sleeve Question to GC	Open	A&M Warshaw Plumb...	Shaw, Justin (JCS...	08/11/2017	Fiona Rooney	08/14/2017		Rooney, Fiona (JC...					Bruno, Cristine (A&M Warshaw Plumbing & Heating)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...					Falk, James (JCS Millshop)
14	Load Letter	Open	A&M Warshaw Plumb...	Rainone, Ron (Har...	07/05/2017	Fiona Rooney	07/08/2017		Rooney, Fiona (JC...		15 days			Bruno, Cristine (A&M Warshaw Plumbing & Heating)
3	Door Hardware	Open	JCS Construction ...	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)

JCS | Construction Group, Inc.

SMOKE TEST
FRIDAY
12/8

Meeting #19

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 11/29/2017 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Project Meeting 11.29.17.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Evan Comilloni		Tel:	ecomilloni@woodardcurran.com
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Melissa Noto		Tel:	mnoto@trumporg.com
Caitlin Pontrella		Tel: (212) 360-3471	caitlin.pontrella@parks.nyc.gov
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open

Description:
Ownership is responsible for getting all changes approved by City Hall and Parks Dept.

Previous Meeting Minutes:

11/29/2017:
Front entrance was discussed. RR to add his notes for JG to submit to ET. Sponzilli to provide an updated CAD drawing and F&P to modify grades. RR to coordinate.
RR to provide revised locations and details on railing, ramps, stairs based on PDC comments.

	Trump to determine how to screen windows, how to proceed with exterior bar glazing. Trump to determine access to septic tank, ejector pump					
1.2	11	Earthwork	Dave Keil **(Maser Consulting P.A.)**			Open
	Description: Compaction tests and Soil test results					
	Previous Meeting Minutes: **11/29/2017:** DK to send a copy of his working manifest to W&C for review and approval since it doesn't look like W&C will be able to provide in time.					
1.3	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: JG brought Sponzilli's the first-round draft of landscape drawing, LP-1. New design will allow for functional, safer traffic flow and increased ADA compliance at driveway. Undecided where the bag drop will be. This drawing has been sent to Ron. On first glance, Joe Conforti of NYC Parks agrees that this is a more functional design but will need to bring it to PDC for formal approval. Trump to take one more step on their end then they will push it back to landscape architect to do a more formal presentation that will then go to PDC.					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
2.1	18	SSDS Update	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS needed to cut back and correct some areas of the anchor bolts, needed to cut and fold back the membrane in these locations. EAI to fold it back and respray at a later date. Smoke test to be done after steel.					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open
	Description: Review Submittal Log					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					
3.2	1	Bluestone	Ron Rainone **(Hart Howerton)**			Open
	Description: Currently waiting on larger samples from the supplier					
	Previous Meeting Minutes: **11/29/2017:** All sandstone is from one lot.					

	How much is full color thermal vs full color cleft? How much is blue stone cleft vs bluestone thermal?					
3.3	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after reciept of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					
3.5	13	Stone Tops	Giavona Sullivan **(The Trump Organization)**			Open
	Description: There is no extra material at Ivanka's. GS brought with her the Calcutta stone sample. Per JG, Breccia being held in Italy for the locker rooms. GS rejected the 2 synthetic marble samples provided by JG. Synthetic is a quartz material, considerably cheaper, durable, doesn't have the salt and peppering that one gets with Calcutta, considerably cheaper alternative. Outdoor stone/Marble spec would be used for front bar, back bar, cash wrap/check-in, all tops in pro-shop. JG's concern is the durability. GS suggests a protective membrane, but this will peel over time. GS will initial the Calcutta. Chip in marble is a safety/liability. GS prefers waterfall edge if she can get ET to approve.					
	Previous Meeting Minutes: **11/29/2017:** Final specification still needed.					
3.6	13	Chandeliers/Fixtures				Open
	Description: GS received sections from HH and measured chandeliers to fit 18' ceilings. Ballroom ceilings and Grill Room ceilings are 18'. Hang chandeliers on highest coffer/beam of the ceilings Specified chandeliers are $15K per quote acquired by Melissa Noto and weigh 750 lbs: The trusses will not support this weight. The flat ceilings in the pro shop can support the weight but the ceilings in the other locations may not. 176 lbs (3x) Chandeliers will come with a threaded rod, secure with air craft cable to prevent the fixture from coming loose. Spread a Kindorf inside a gem box, threaded rod through the gem box and run the aircraft cable with the wires into the ceiling. GS spoke to Isabella at HH who confirmed that HH is not contracted to do any interior fit out work, as per plans and specs, so there are no RCPs. JF has created the roof and ceiling details. Interior columns are big enough to hang chandeliers, all they need to be is big enough to hold a gem box. Pro Shop chandeliers to be Schonbek. Need to have a section in the ceiling that is removable so that the HVAC equipment can be accessed as needed. Per JG, instead of an access panel, Justin will design something that can come apart fairly easily so that it doesn't impact the location of the fixtures. This fixture will be 60" by 60" by 60".					
	Previous Meeting Minutes: **11/29/2017:** Final specification still needed.					
3.8	13	Carpet	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**			Open
	Description: Carpet installation, GS and JG specify double stick.					

	Previous Meeting Minutes: **11/29/2017:** Final specification still needed.					
3.9	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **11/29/2017:** Final specification still needed on hardware.					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	14	Plumbing Fixtures	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: JG is meeting with Kohler rep immediately after this meeting to discuss plumbing fixtures. Will be using floor mounted flush valve toilets.					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					

JCS Construction Group, Inc.

Meeting #19

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.2	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction.					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					
7.3	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					
7.4	12	Pro Shop				Open
	Description: Interior Design					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Dec 5, 2017 at 04:36 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
No Spec Section	52	0	Brick	Product Information	Open	Gault Stone		Bryan Williamson		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	12/05/2017		12/19/2017	
No Spec Section	42	0	Submittal for Sakarete Repairs		Open	Triple G		Eric Garrido		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending			10/25/2017	
06 4100 Architectural Wood Casework	19	3	Millwork Drawings	Shop Drawing	Open	JCS Millshop	12/06/2017	James Falk	11/29/2017	Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending	11/29/2017 11/29/2017		12/13/2017	
06 4100 Architectural Wood Casework	19	0	Millwork Drawings	Shop Drawing	Open	JCS Millshop		James Falk	07/24/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	07/24/2017		08/07/2017	
08 1400 Wood Doors	18	1	Interior Doors	Shop Drawing	Open	Church Door	11/28/2017	Chuck Sweetman	11/13/2017	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	11/13/2017		11/27/2017	

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Dec 5, 2017 at 04:36 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
55	Translucent Glass Panels	Open		Sullivan, Giavona...	11/10/2017	Justin Shaw	11/13/2017		Sullivan, Giavona...					None
49	Leaders	Open	JCS Construction ...	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Har...	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JC...					Wiles, Craig (JCS Millshop)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...					Falk, James (JCS Millshop)
14	Load Letter	Open	A&M Warshaw Plumb...	Rainone, Ron (Har...	07/05/2017	Fiona Rooney	07/08/2017		Rooney, Fiona (JC...		15 days			Bruno, Cristine (A&M Warshaw Plumbing & Heating)
3	Door Hardware	Open	JCS Construction ...	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)

JCS | Construction Group, LLC

TWO-WEEK LOOK AHEAD

December 5th 2017

Project Name: Ferry Point **Job # 16-031** **Weekly Project Meeting Wednesday 10AM**

ACTIVITY	Week 1							Week 2							Comments
DATE:	M 12/04	T 12/05	W 12/06	T 12/07	F 12/08	S 12/09	S 12/10	M 12/11	T 12/12	W 12/13	T 12/14	F 12/15	S 12/16	S 12/17	
REBAR								x	x	x					
CONCRETE												x			
BACKFILLING	x	x	x	x	x	x									
STEEL			x	x	x	x		x	x						
EAI					x										repair/smoke test
MASER	x	x								x		x			rebar/concrete/backfill

44 Homestead Avenue, Stamford, CT 06902 t:(203) 485-9612 f:(203) 721-3884

JCS Construction Group, Inc.

Meeting #20

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 12/13/2017 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Project Meeting 12-6-17 1.m4a Project Meeting 12-6-17 2.m4a Project Meeting 12-6-17 3.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Kay Zias		Tel:	kay.zias@parks.nyc.gov
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept.					
	Previous Meeting Minutes: **11/29/2017:** JCS has yet to receive these drawings for Construction/Pricing					
1.2	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open

	Mahogany wood was decided upon The size of the crown molding will need to be increased in size in some areas from a 6" to an 8", larger molding will be foam/plastic, not be MDF. Shops were reviewed. Gia to provide JCS with redlines to revise and resubmit. The reuse of current cash drawers was discussed.					
3.4	13	Stone Tops	Giavona Sullivan **(The Trump Organization)**			Open
	Description: Calcutta v. Synthetic Installation differences Quantities					
	Previous Meeting Minutes: **11/29/2017:** Final specification still needed.					
3.5	13	Chandeliers/Fixtures				Open
	Previous Meeting Minutes: **11/29/2017:** Final specification still needed. Gia needs to specify a fixture in order for the structural engineer to provide a detail for support ET wants a chandelier hanging from the cupola: JCS needs spec, and structural detail					
3.6	13	Carpet	Giavona Sullivan **(The Trump Organization)**, John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Carpet installation, GS and JG specify double stick.					
	Previous Meeting Minutes: **11/29/2017:** Final specification still needed.					
3.7	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **11/29/2017:** Final specification still needed on hardware.					
3.8	12	Pro Shop				Open
	Description: Interior Design					

JCS Construction Group, Inc.

Meeting #20

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **11/29/2017:** *(None)*					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction. Final Grades still not established					
	Previous Meeting Minutes: **11/29/2017:** JCS is still waiting on this.					
7.2	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					
	Previous Meeting Minutes: **11/29/2017:** JCS has yet to receive these drawings for Construction/Pricing					

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Dec 12, 2017 at 04:10 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
56	Cupola Items	Open		Rainone, Ron (Har...	12/08/2017	Justin Shaw	12/11/2017		Shaw, Justin (JCS...				Yes (Unknown)	None
55	Translucent Glass Panels	Open		Sullivan, Giavona...	11/10/2017	Justin Shaw	11/13/2017		Shaw, Justin (JCS...					None
53	CFM Roof Framing Connection	Open	JCS Construction ...	Rainone, Ron (Har...	11/07/2017	Justin Shaw	11/10/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)
49	Leaders	Open	JCS Construction ...	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Har...	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JC...					Wiles, Craig (JCS Millshop)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...					Falk, James (JCS Millshop)
14	Load Letter	Open	A&M Warshaw Plumb...	Rainone, Ron (Har...	07/05/2017	Fiona Rooney	07/08/2017		Rooney, Fiona (JC...		15 days			Bruno, Cristine (A&M Warshaw Plumbing & Heating)
3	Door Hardware	Open	JCS Construction ...	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)

JCS Construction Group, Inc.

Meeting #21

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 01/03/2018 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Project Meeting 12.13.2017 2.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Kay Zias		Tel:	kay.zias@parks.nyc.gov
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept.					
	Previous Meeting Minutes: **12/13/2017:** JCS has yet to receive these drawings for Construction/Pricing					

WC CONTRACTS WITH GAI

SCHEDULE FOR FAI
REMINDER MID-FEB OR LATE FEB
SSDS

JCS | Construction Group, Inc.

Meeting #21

	JCS is no longer able to support another round of drafting without an approved change order for design costs as 6 revisions have already been provided. Finished fronts on equipment is not feasible. Ownership will be reusing the existing cash wraps. Requests that the liquor shelves be packed forward. Jim Falk to detail the base of column and how cash drawer will be integrated. JCS requests that the Interior Design team elect a single representative to be the point of contact for submittal review, RFI and design-related items. It was determined that GS would be this point of contact.					
3.4	13	Stone Tops	Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **12/13/2017:** GS to purchase. Quantities: Tile and slab counts for bar, bathrooms, locker rooms 3" Waterfall on all tops					
3.5	13	Chandeliers/Fixtures				Open
	Previous Meeting Minutes: **12/13/2017:** Final specification still needed. Gia needs to specify a fixture in order for the structural engineer to provide a detail for support ET wants a chandelier hanging from the cupola: JCS needs spec, and structural detail					
3.6	13	Carpet	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**			Open
	Description: Carpet installation, GS and JG specify double stick.					
	Previous Meeting Minutes: **12/13/2017:** Final specification still needed.					
3.7	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **12/13/2017:** Final specification still needed on hardware as well as the finish type for all door submittals					
3.8	12	Pro Shop				Open
	Description: Interior Design					
	Previous Meeting Minutes: **12/13/2017:** Pro-shop will remain as is until further notice					

	Previous Meeting Minutes: **12/13/2017:** Final specifications still needed					
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **12/13/2017:** JCS has yet to receive these drawings.					
5.3	20	Lighting	Giavona Sullivan **(The Trump Organization)**			Open
	Description: Lighting Plan					
	Previous Meeting Minutes: **12/13/2017:** Lighting plan will not be changed, due to time and cost of change orders.					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **12/13/2017:** *(None)*					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction. Final Grades still not established					
	Previous Meeting Minutes: **12/13/2017:** JCS is still waiting on this.					
7.2	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Jan 2, 2018 at 04:11 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
56	Cupola Items	Open		Rainone, Ron (Har...	12/08/2017	Justin Shaw	12/11/2017		Shaw, Justin (JCS...				Yes (Unknown)	None
55	Translucent Glass Panels	Open		Sullivan, Giavona...	11/10/2017	Justin Shaw	11/13/2017		Shaw, Justin (JCS...					None
53	CFM Roof Framing Connection	Open	JCS Construction ...	Rainone, Ron (Har...	11/07/2017	Justin Shaw	11/10/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)
49	Leaders	Open	JCS Construction ...	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Har...	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JC...					Wiles, Craig (JCS Millshop)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...					Falk, James (JCS Millshop)
3	Door Hardware	Open	JCS Construction ...	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)

JCS | Construction Group, Inc.

Meeting #22

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 01/03/2018 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Project Meeting 1.3.2018.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Kay Zias		Tel:	kay.zias@parks.nyc.gov
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open

Description:
Ownership is responsible for getting all changes approved by City Hall and Parks Dept.

Previous Meeting Minutes:

01/03/2018:
Per Joe Conforti, Sheena has no commitment on DEC submission.
No outright issues from Parks about changes
JC of DEC: Changes seem logical.

1.2	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/03/2018:** JCS has yet to receive these drawings for Construction/Pricing					

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
2.1	18	SSDS Update	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **01/03/2018:** EAI to remobilize at the end of February to do the rough piping of the SSDS JS confirmed with W&C that the changes to the SSDS determined during the construction of the Construction of the new Clubhosue will be picked up in the work done by EAI in other work thgroughout the Park. SL suggests coordinating mobilization of EAi . SL informs that the because there is no sitework or earth disturbance being done maser can scale down their presence onsite to one inspection per month if we put down hay mulch or tarp during the winter Less expensive to keep Maser on weekly and not put down temporary stabilization because hay mulch would destroy the course.					

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open
	Description: Review Submittal Log Ejector Pump drawings needs sign-off on in order to order basin and pump ASAP as this is a long lead time item.					
	Previous Meeting Minutes: **01/03/2018:** JG to follow up with F&P on ejector pump					
3.2	1	Bluestone	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **01/03/2018:** 24x24 samples have been shipped by supplier. JG will ask ET which stone he wants.					
3.3	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after receipt of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					
	Previous Meeting Minutes: **01/03/2018:** RFI #19 is still open Samples, bar revisions and new pricing still open.					

3.4	13	Stone Tops	Giavona Sullivan **(The Trump Organization)**			Closed
	Previous Meeting Minutes: **01/03/2018:** *(None)*					
3.5	13	Chandeliers/Fixtures				Open
	Previous Meeting Minutes: **01/03/2018:** Supports in the coffers for chandelier, as of now we are working with non-structural coffers. In order to hang chandeliers in dining room JCS to add structural 2x laying on the bottom chord that we can run a threaded rod into it. Will need locations later but proceed with structural. Chandelier to hang from Cupola still open.					
3.6	13	Carpet	Giavona Sullivan **(The Trump Organization)**, John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Carpet installation, GS and JG specify double stick.					
	Previous Meeting Minutes: **01/03/2018:** Final specification and quantities still needed.					
3.7	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **01/03/2018:** Final specification still needed on hardware as well as the finish type for all door submittals					
3.8	12	Pro Shop				Open
	Description: Interior Design					
	Previous Meeting Minutes: **01/03/2018:** Pro-shop will remain as is until further notice and approved pricing based on ID concept renderings					
3.10	19	Drawings for Exterior Changes	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **01/03/2018:** JCS has yet to receive these drawings for Construction/Pricing and will be building the back bar as per drawings received to date					
3.11	19	Exterior Door Hardware	Giavona Sullivan **(The Trump Organization)**			Open

	Previous Meeting Minutes: **01/03/2018:** JCS has yet to receive these specs.					
3.12	20	Cash Drop	Joe Roediger	12/ 20/ 2017		Open
	Description: Jewelry store-style cash-drop at comptroller's office					
	Previous Meeting Minutes: **01/03/2018:** Ownership to provide detail for pricing					
3.13	20	Radar at Cupola	Joe Roediger	12/ 20/ 2017		Open
	Description: Requirements will be provided by 12/20/2018 (AV, LV and what the roofer needs)					
	Previous Meeting Minutes: **01/03/2018:** RFI #56 Cupola Items: These details will need to be provided by Owner and this RFI shall remain open until it is completed. L shaped bracket on underside of soffit coming off the rafter tail. Power: regular 1 10, Cable is regular CAT6 We will run the wire up exterior sleeve and hide it.					
3.14	21	Brick	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: JCS to obtain less uniform/more tumbled looking brick					
	Previous Meeting Minutes: **01/03/2018:** *(None)*					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	21	RFI #53	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Bar room ceiling connection detail needed.					
	Previous Meeting Minutes: **01/03/2018:** *(None)*					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	14	Plumbing Fixtures	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/03/2018:** Final specifications still needed					

5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **01/03/2018:** JCS has yet to receive these drawings.					
5.3	20	Lighting	Giavona Sullivan **(The Trump Organization)**			Open
	Description: Lighting Plan					
	Previous Meeting Minutes: **01/03/2018:** Lighting plan will not be changed per previous meeting 12/13/17, due to time and cost of change orders, the change order received from GS on 12/20/2017 show additional sconces (see PCCO #012)					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **01/03/2018:** *(None)*					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction. Final Grades still not established					
	Previous Meeting Minutes: **01/03/2018:** JCS is still waiting on this.					
7.2	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					

	Previous Meeting Minutes: **01/03/2018:** JCS has yet to receive these drawings for Construction/Pricing

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
8.2	20	PCCO #012	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Wall Sconces					
	Attachments: PCCO #012.pdf					
	Previous Meeting Minutes: **01/03/2018:** JG passed on to GS' . The change to original lighting will require another round of Energy Calcs by F&P.					
8.3	20	PCCO #011	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Millwork Samples					
	Attachments: PCCO #011.pdf					
	Previous Meeting Minutes: **01/03/2018:** JG passed on to GS'					
8.4	20	PCCO #010	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Changes to Cupola Framing Materials					
	Attachments: PCCO #010.pdf					
	Previous Meeting Minutes: **01/03/2018:** Reduced by JCS, open.					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Jan 9, 2018 at 06:43 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
No Spec Section	56	0	Light GA Connections	Document	Open	JCS Construction Group, Inc.	01/02/2018	Fiona Rooney	12/28/2017	Fiona Rooney (JCS Construction Group, Inc.)	Rainone, Ron (Hart Howerton)	Rejected	12/28/2017	01/05/2018	01/11/2018	
No Spec Section	54	1	Pro Shop Drawings	Shop Drawing	Open	JCS Millshop	12/22/2017	James Falk	12/15/2017	Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending	12/15/2017		12/29/2017	
No Spec Section	52	0	Brick	Product Information	Open	Gault Stone		Bryan Williamson		Fiona Rooney (JCS Construction Group, Inc.)	Rainone, Ron (Hart Howerton)	Approved As Noted	12/05/2017	12/19/2017	12/19/2017	
No Spec Section	42	0	Submittal for Sakarete Repairs		Open	Triple G		Eric Garrido		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending			10/25/2017	
06 4100 Architectural Wood Casework	19	5	Millwork Drawings	Shop Drawing	Open	JCS Millshop	01/04/2018	James Falk	01/04/2018	Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending	01/04/2018		01/18/2018	
08 1400 Wood Doors	18	2	Interior Doors	Shop Drawing	Open	Church Door	11/28/2017	Chuck Sweetman		Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending	12/08/2017		12/22/2017	

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Jan 9, 2018 at 06:43 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
56	Cupola Items	Open		Rainone, Ron (Har...	12/08/2017	Justin Shaw	12/11/2017		Shaw, Justin (JCS...				Yes (Unknown)	None
55	Translucent Glass Panels	Open		Sullivan, Giavona...	11/10/2017	Justin Shaw	11/13/2017		Shaw, Justin (JCS...					None
53	CFM Roof Framing Connection	Open	JCS Construction ...	Rainone, Ron (Har...	11/07/2017	Justin Shaw	11/10/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)
49	Leaders	Open	JCS Construction ...	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Har...	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JC...					Wiles, Craig (JCS Millshop)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...					Falk, James (JCS Millshop)
3	Door Hardware	Open	JCS Construction ...	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)

JCS | Construction Group, Inc.

Attendance 1/17/2018

Meeting #23

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 01/17/2018

MEETING TIME: 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Project Meeting 10-10-2018 1.m4a Project Meeting 1-10-18 2.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Kay Zias		Tel:	kay.zias@parks.nyc.gov
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept.					
	Previous Meeting Minutes: **01/10/2018:** *(None)*					

1.2	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/10/2018:** JCS has yet to receive these drawings for Construction/Pricing					
1.3	22	Permits	Joe Roediger			Open
	Description: Ownership to do this:					
	Previous Meeting Minutes: **01/10/2018:** Who submits to the Board of Health? Is a Cabaret Permit permit required? Public Assembly?					

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
2.1	18	SSDS Update	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **01/10/2018:** No SSDS update.					
2.2	22	Maser	Dave Keil **(Maser Consulting P.A.)**			Open
	Description: Maser to email DFRs to Kay and Steve. Soil importation is on hold until winter breaks.					
	Previous Meeting Minutes: **01/10/2018:** Maser to email DFRs to Kay and Steve. Soil importation is on hold until winter breaks.					

RESPONSIBLE PARTY

THIS IS ALL TAKEN CARE OF.

WEEKLY EROSION CONTROL REPORT SENT WEEKLY

NO PLANS. ANYTHING TRUCKS

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open
	Description: Review Submittal Log					
	Previous Meeting Minutes: **01/10/2018:** Ejector Pump needs to be signed off on by F&P Molding details provided, to be reviewed by GS on Friday. GS to determine location (highlight an RCP) and typical detail for all interior trim. Interactions of trim to be worked out in the field.					
3.2	1	Bluestone	Ron Rainone **(Hart Howerton)**			Open
	Description:					

TALK TO MARK ABOUT TWO WEEK LOOK AHEAD SCHEDULE.

	ET selected Bluestone thermal					
	Previous Meeting Minutes: **01/10/2018:** 24x24 samples were requested. To be presented to ET on Friday.					
3.3	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after receipt of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					
	Previous Meeting Minutes: **01/10/2018:** *(None)*					
3.5	13	Chandeliers/Fixtures				Open
	Description: Chandelier in Cupola: Logistics, cost, design: This was eliminated but JCS will still provide structural support in case Ownership wants a chandelier in the future. Decided on ballroom chandeliers, PCCO pending detail by ID/HH.					
	Previous Meeting Minutes: **01/10/2018:** In order to hang chandeliers in dining room JCS to add structural 2x laying on the bottom chord that we can run a threaded rod into it. Will need locations later but proceed with structural.GS to markup a RCP with locations of chandeliers Chandelier to hang from Cupola to be discussed with ET on Friday 1/12/18					
3.6	13	Carpet	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**			
	Previous Meeting Minutes: **01/10/2018:** Final specification and quantities still needed.					
3.7	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **01/10/2018:** Final specification still needed on hardware as well as the finish type for all door submittals Changes to door scope via 10/26/17 markups will be reviewed by JCS and presented as a CO.					
3.8	12	Pro Shop				
	Description: Interior Design: Pro-Shop shop drawings are rejected. Per ET the checkout cash-wrap will be m the right side, so as to protect direct line of site/view of the bridge.					
	Previous Meeting Minutes: **01/10/2018:** To be discussed with ET on Friday.					

3.10	19	Drawings for Exterior Changes	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **01/10/2018:** Exterior changes were approved by Parks but JCS has yet to receive these drawings for Construction/Pricing and will be building the back bar as per drawings received to date. The only change that Parks made was to the roof, which will be enclosed and have an inline fan because Parks didn't want to see the two vent holes. RR to provide updated drawings illustrating the exterior changes.					
3.11	19	Exterior Door Hardware	Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **01/10/2018:** *(None)*					
3.12	20	Cash Drop	Joe Roediger	12/ 20/ 2017		Open
	Description: Jewelry store-style cash-drop at comptroller's office					
	Previous Meeting Minutes: **01/10/2018:** Ownership to provide detail for pricing					
3.13	20	Radar at Cupola	Joe Roediger	12/ 20/ 2017		Open
	Description: Requirements will be provided by 12/20/2018 (AV, LV and what the roofer needs)					
	Previous Meeting Minutes: **01/10/2018:** *(None)*					
3.14	21	Brick	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: JCS to obtain less uniform/more tumbled looking brick					
	Previous Meeting Minutes: **01/10/2018:** JCS to obtain less uniform/more tumbled looking brick to be presented to ET for approval					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	21	RFI #53	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Bar room ceiling connection detail needed.					
	Previous Meeting Minutes: **01/10/2018:** JCS has yet to receive this detail					

JCS Construction Group, Inc.

Meeting #23

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	14	Plumbing Fixtures	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/10/2018:** Final specifications still needed					
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **01/10/2018:** Hernan to reiterate what he needs from Joe/F&P/HH/JCS: sprinkler hydraulic calculations from vendors. JCS was hoping to buy HVAC & Sprinkler together but all of the bids we have received show the expensive BMS system, which was VE'd. Drawings need to be revised by F&P to reflect the reduction and simplification of scope. Suggestion of conference call between F&P, TO, HH & JCS. Changes to HVAC venting on enclosed roof at exterior also needs to be detailed in drawings.					
5.3	20	Lighting	Giavona Sullivan **(The Trump Organization)**			Open
	Description: Lighting Plan					
	Previous Meeting Minutes: **01/10/2018:** GS to provide JG with specs on the additional 27 sconces who will then submit to F&P to ensure energy code compliance. If energy code is a non-issue, JCS may bring price down.					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **01/10/2018:** *(None)*					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open

	Description: JCS has yet to receive Civil drawings For Construction. Final Grades still not established					
	Previous Meeting Minutes: **01/10/2018:** JCS is still waiting on this.					
7.2	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					
	Previous Meeting Minutes: **01/10/2018:** JCS has yet to receive these drawings for Construction/Pricing. Front entry is still several weeks away from approval. The submission is several weeks away from being approved by DEC/DPW.					

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
8.2	20	PCCO #012	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Wall Sconces					
	Attachments: PCCO #012.pdf					
	Previous Meeting Minutes: **01/10/2018:** GS to provide the specs and details for the addition of 27 sconces so that JG can send to F&P to determine if energy recalculations are needed. This item will remain open until that time.					
8.3	20	PCCO #011	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Millwork Samples					
	Attachments: PCCO #011.pdf					
	Previous Meeting Minutes: **01/10/2018:** This CO will remain open and will encompass all millwork changes, including: interior trim, bar, pro-shop, locker rooms, drafting, excessive samples required in absence of control samples.					
8.4	20	PCCO #010	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Changes to Cupola Framing Materials					

	Attachments: PCCO #010.pdf
	Previous Meeting Minutes: **01/10/2018:** Reduced by JCS, open.

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Jan 16, 2018 at 05:38 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
62	Stair Plans	Open	Triple G	Rainone, Ron (Har...	01/16/2018	Fiona Rooney	01/17/2018		Rooney, Fiona (JC...					Garrido, Eric (Triple G)
61	Elevations and Detail requested	Open	Triple G	Rainone, Ron (Har...	01/16/2018	Fiona Rooney	01/19/2018		Rainone, Ron (Har...					GGG, tommy (Triple G)
60	Window Framing	Open	JCS Construction ...	Rainone, Ron (Har...	01/15/2018	Justin Shaw	01/18/2018		Rainone, Ron (Har...					None
59	Missing Beam for Trusses	Open	French & Parrello...	Rainone, Ron (Har...	01/10/2018	Fiona Rooney	01/13/2018		Rainone, Ron (Har...	At grid line F11	5 days		Yes (Unknown)	None
56	Cupola Items	Open		Rainone, Ron (Har...	12/08/2017	Justin Shaw	12/11/2017		Shaw, Justin (JCS...				Yes (Unknown)	None
55	Translucent Glass Panels	Open		Sullivan, Giavona...	11/10/2017	Justin Shaw	11/13/2017		Shaw, Justin (JCS...					None
53	CFM Roof Framing Connection	Open	JCS Construction ...	Rainone, Ron (Har...	11/07/2017	Justin Shaw	11/10/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)
49	Leaders	Open	JCS Construction ...	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
41	Roof Trusses	Open	JCS Millshop	Rainone, Ron (Har...	09/15/2017	Fiona Rooney	09/18/2017		Rooney, Fiona (JC...					Wiles, Craig (JCS Millshop)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...					Falk, James (JCS Millshop)
3	Door Hardware	Open	JCS Construction ...	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Jan 16, 2018 at 05:38 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
No Spec Section	58	0	Plumbing Shops	Shop Drawing	Open	A&M Warshaw Plumbing & Heating		Cristine Bruno		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	01/10/2018		01/24/2018	
06 4100 Architectural Wood Casework	57	0	Cove Molding Details	Sample	Open	JCS Millshop		James Falk		Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending	01/10/2018		01/24/2018	
No Spec Section	56	0	Light GA Connections	Document	Open	JCS Construction Group, Inc.	01/02/2018	Fiona Rooney	12/28/2017	Fiona Rooney (JCS Construction Group, Inc.)	Rainone, Ron (Hart Howerton)	Rejected	12/28/2017	01/05/2018	01/11/2018	
No Spec Section	54	1	Pro Shop Drawings	Shop Drawing	Open	JCS Millshop	12/22/2017	James Falk	12/15/2017	Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending	12/15/2017		12/29/2017	
No Spec Section	52	1	Brick	Sample	Open	Gault Stone		Bryan Williamson		Ron Rainone (Hart Howerton) Giavona Sullivan (The Trump Organization)	Rainone, Ron (Hart Howerton) Sullivan, Giavona (The Trump Organization)	Pending Pending	01/16/2018 01/16/2018		01/17/2018	
06 4100 Architectural Wood Casework	47	2	Typical Molding Details	Shop Drawing	Open	JCS Millshop		James Falk		Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending			01/24/2018	
No Spec Section	42	0	Submittal for Sakarete Repairs		Open	Triple G		Eric Garrido		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending			10/25/2017	
06 4100 Architectural Wood Casework	19	5	Millwork Drawings	Shop Drawing	Open	JCS Millshop	01/04/2018	James Falk	01/04/2018	Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending	01/04/2018		01/18/2018	
08 1400 Wood Doors	18	2	Interior Doors	Shop Drawing	Open	Church Door	11/28/2017	Chuck Sweetman		Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending	12/08/2017		12/22/2017	

JCS Construction Group, Inc.

Meeting #24

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 01/24/2018 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Project Meeting #23 1-17-18.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Joe Conforti		Tel:	joe.conforti@parks.nyc.gov
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Kay Zias		Tel:	kay.zias@parks.nyc.gov
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Description: Ownership is responsible for getting all changes approved by City Hall and Parks Dept.					
	Previous Meeting Minutes: **01/17/2018:** JCS is still waiting on the drawings for construction, Joe Roediger is still waiting on Parks to submit something to him.					

	• Bar Hardware • Locker Room Concepts • Plumbing Shops • Cove Molding Details • Typical Molding Details GS to provide highlighted plan for desired location and detail for desired dimensions • Millwork Drawings (Bar Shops R8) • Interior Doors					
3.3	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after receipt of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					
	Previous Meeting Minutes: **01/17/2018:** Locker Concepts Bar finish sample rejected but no alternative provided Proshop drawings to be revised per ET comments Bar Drawings are open					
3.5	13	Chandeliers/Fixtures				Open
	Previous Meeting Minutes: **01/17/2018:** Chandelier in Cupola: Logistics, cost, design: This was eliminated but JCS will still provide structural support in case Ownership wants a chandelier in the future. Decided on ballroom chandeliers, PCCO pending detail by ID/HH					
3.6	13	Carpet	Giavona Sullivan **(The Trump Organization)**, John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/17/2018:** Final quantities still needed.					
3.7	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **01/17/2018:** Final specification still needed on hardware as well as the finish type for all door submittals Changes to door scope via 10/26/17 markups will be reviewed by JCS and presented as a CO.					
3.8	12	Pro Shop				Open
	Description: Interior Design: Pro-Shop shop drawings are rejected. Per ET the checkout cash-wrap will be moved from the center of the room to the right side, so as to protect direct line of site/view of the bridge.					

4.1	21	RFI #53	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Bar room ceiling connection detail needed.					
	Previous Meeting Minutes: **01/17/2018:** JCS has yet to receive this detail					
4.2	23	Missing Beam	Ron Rainone **(Hart Howerton)**	01/ 24/ 2018		Open
	Description: See RFI #59					
	Previous Meeting Minutes: **01/17/2018:** *(None)*					
4.3	23	Truss Issues	Ron Rainone **(Hart Howerton)**	01/ 26/ 2018	High	Open
	Description: T5B T64					
	Previous Meeting Minutes: **01/17/2018:** Issues related to these trusses were discussed, further investigation to be done in feild					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	14	Plumbing Fixtures	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/17/2018:** Final specifications still needed					
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **01/17/2018:** JCS has yet to receive these updates reflecting the changes to HVAC venting on enclosed roof at exterior.					
5.3	20	Lighting	Giavona Sullivan **(The Trump Organization)**			Open
	Description: Lighting Plan					

	Wall Sconces					
	Attachments: PCCO #012.pdf					
	Previous Meeting Minutes: **01/17/2018:** *(None)*					
8.3	20	PCCO #011	John Gruber **(Trump Ferry Point LLC)**			Open
	Attachments: PCCO #011.pdf					
	Previous Meeting Minutes: **01/17/2018:** Millwork Bar Change Order					
8.4	20	PCCO #010	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Changes to Cupola Framing Materials					
	Attachments: PCCO #010.pdf					
	Previous Meeting Minutes: **01/17/2018:** *(None)*					

- DAILY REPORT TO
WEEKLY EROSION CONTROL REPORT
- DEMOLITION OF SOIL MIXER
LOCATION MODIFICATIONS
- SOIL SEPARATE TO ASSUME
IN 2 LOCATIONS.

JCS Construction Group, Inc.

Meeting #25

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 01/31/2018 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

QUESTION TO OTHER RE:
ANY ADDITIONAL SAMPLING OF SOIL FROM NY REQUIRE?

ATTACHMENTS:

Project Meeting #24 1-24-18.m4a

ATTENDEES:

Name	Company	Phone Number	Email
Joe Conforti		Tel:	joe.conforti@parks.nyc.gov
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Kay Zias		Tel:	kay.zias@parks.nyc.gov
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Courtney Lyver	The Trump Organization	Tel:	clyver@trumpgolflinks.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open

Description:
Approved by Parks:

1. Relocation of outdoor kitchen on North Terrace;
2. Addition of V-groove paneled screen wall, which will be 4'-6" tall across its length, and rectilinear in profile;
3. Addition of 4" x 12" subway tile, in white sample color submitted for review, on southern wall of outdoor kitchen;

	Previous Meeting Minutes: **01/24/2018:** *(None)*					
3.3	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after receipt of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					
	Previous Meeting Minutes: **01/24/2018:** • Locker Concepts • Bar finish sample rejected but no alternative provided • ProShop drawings to be revised per ET comments. JCS to issue a false ProShop submittal revision so that GS can respond with Terry's ProShop design response. • Bar Drawings are open • Cove detail: double cove is 1 5/8, does this require two pieces of grounds? This submittal will remain open until JCS receives the highlighted plan with three different colors from GS. • JCS to reissue the unanswered/open cove Submittal SK1-5 dated 11/28/17 • Stainless Steel footrail • GS to pick out knobs and pulls & add this as a response to submittal #60.					
3.5	13	Chandeliers/Fixtures				Open
	Previous Meeting Minutes: **01/24/2018:** Chandelier in Cupola: Logistics, cost, design: This was eliminated but JCS will still provide structural support in case Ownership wants a chandelier in the future. Decided on ballroom chandeliers, PCCO pending detail by ID/HH					
3.6	13	Carpet	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **01/24/2018:** Final quantities still needed.					
3.7	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **01/24/2018:** Final specification still needed on hardware as well as the finish type for all door submittals Changes to door scope via 10/26/17 markups will be reviewed by JCS and presented as a CO.					
3.8	12	Pro Shop				Open
	Previous Meeting Minutes: **01/24/2018:** Interior Design: Pro-Shop shop drawings are rejected. Per ET the checkout cash-wrap will be moved from the center of the room to the right side, so as to protect direct line of site/view of the bridge. GS to provide new design to JCS for pricing and shop drawings					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	21	RFI #53	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Bar room ceiling connection detail needed.					
	Previous Meeting Minutes: **01/24/2018:** JCS has yet to receive this detail					
4.2	23	Missing Beam	Ron Rainone **(Hart Howerton)**	01/ 24/ 2018		Open
	Description: See RFI #59					
	Previous Meeting Minutes: **01/24/2018:** JCS still waiting on this					
4.3	23	Truss Issues	Ron Rainone **(Hart Howerton)**	01/ 26/ 2018	High	Open
	Description: T5B T64					
	Previous Meeting Minutes: **01/24/2018:** Further investigation to be done in feild					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	14	Plumbing Fixtures	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/24/2018:** JCS was told that they would receive this detail by EOW					
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **01/24/2018:** JCS has yet to receive these updates reflecting the changes to HVAC venting on enclosed roof at exterior. Hernan Rojas to attend next week's meeting.					

JCS Construction Group, Inc.

Meeting #25

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
8.2	20	PCCO #012	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Wall Sconces					
	Attachments: PCCO #012.pdf					
	Previous Meeting Minutes: **01/24/2018:** Will remain open for final spec/energy calculation deliberations					
8.3	20	PCCO #011	John Gruber **(Trump Ferry Point LLC)**			Open
	Attachments: PCCO #011.pdf					
	Previous Meeting Minutes: **01/24/2018:** Millwork Bar Change Order to remain open for approval					
8.4	20	PCCO #010	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Changes to Cupola Framing Materials					
	Attachments: PCCO #010.pdf					
	Previous Meeting Minutes: **01/24/2018:** Will remain open for approval.					
8.5	24	PCCO #014	John Gruber **(Trump Ferry Point LLC)**	01/ 23/ 2018	High	Open
	Description: PCCO for Door Changes via 10/26/17 redlines by HH.					
	Previous Meeting Minutes: **01/24/2018:** *(None)*					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Jan 30, 2018 at 06:04 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
65	Dining room	Open	Atkins Construction	Rainone, Ron (Har...	01/26/2018	Mark Smithson	01/29/2018		Smithson, Mark (J...					Smithson, Mark (JCS Construction Group, Inc.)
59	Missing Beam for Trusses	Open	French & Parrello...	Rainone, Ron (Har...	01/10/2018	Fiona Rooney	01/13/2018		Rooney, Fiona (JC...	At grid line F11	5 days		Yes (Unknown)	None
56	Cupola Items	Open		Rainone, Ron (Har...	12/08/2017	Justin Shaw	12/11/2017		Shaw, Justin (JCS...				Yes (Unknown)	None
55	Translucent Glass Panels	Open		Sullivan, Giavona...	11/10/2017	Justin Shaw	11/13/2017		Shaw, Justin (JCS...					None
53	CFM Roof Framing Connection	Open	JCS Construction ...	Rainone, Ron (Har...	11/07/2017	Justin Shaw	11/10/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)
49	Leaders	Open	JCS Construction ...	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...					Shaw, Justin (JCS Construction Group, Inc.)
19	JCS Millshop RFI #1	Open	JCS Millshop	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...					Falk, James (JCS Millshop)
3	Door Hardware	Open	JCS Construction ...	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...					Shaw, Justin (JCS Construction Group, Inc.)

JCS Construction Group, Inc.

Meeting #26

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 02/07/2018

MEETING TIME: 1:00 PM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW: SSDS meeting of 2/12/2018

ATTACHMENTS: Status Quo for soil importation

ATTENDEES:

Name	Company	Phone Number	Email
David Cerron		Tel: (212) 360-3457	david.cerron@parks.nyc.gov
Joe Conforti		Tel:	joe.conforti@parks.nyc.gov
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open

Description:
Approved by Parks:

1. Relocation of outdoor kitchen on North Terrace;
2. Addition of V-groove paneled screen wall, which will be 4'-6" tall across its length, and rectilinear in profile;
3. Addition of 4" x 12" subway tile, in white sample color submitted for review, on southern wall of outdoor kitchen;
4. Revision of dormer above outdoor kitchen to include intake and exhaust louvers.
5. Alteration of entry stairs at West Elevation to run straight instead of being accessible at an angle;

	6. Removal of plan bump-out at exterior wall behind Bar in Grill Room; 7. Change from Anderson A-Series windows to Pella Windows; 8. Change of operable doors (between gridlines F.5 and F.12, 5.1 and 5.5) to fixed units; 9. Introduction of interior "black-out" panels behind specified windows at Bar and in Mechanical and Electrical room					
	Previous Meeting Minutes: **01/31/2018:** JCS to obtain pricing on items 1-6, 8-9 Team discussed means by which the blacked out windows would be lit, which is necessary to know before blacking out the windows. JG/GS to issue this detail within the lighting package. Lighting consultant should be brought onto team. JCS to find out if Sam Tell will file for the ansel system on their own, or provide documents to Hernan to file JCS received subway tile control sample					
1.2	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/31/2018:** The front entry way is still not approved					

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
2.1	18	SSDS Update	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **01/31/2018:** SSDS to come back in the next couple weeks, simultaneous to rough-ins.					
2.2	22	Maser	Dave Keil **(Maser Consulting P.A.)**			Open
	Previous Meeting Minutes: **01/31/2018:** **Civil:** Maser to email DFRs to Kay and Steve.					

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open
	Description: Review Submittal Log					
	Previous Meeting Minutes: **01/31/2018:** *(None)*					
3.3	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after receipt of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					

	Previous Meeting Minutes: **01/31/2018:** Verbal approval on interior trim Footrail approved GS provided JCS with a new control sample for interior millwork Locker room wood to be stain grade not paint grade JG and GS to present and discuss ProShop pricing and Bar change order with ET tomorrow as he has been traveling for the past two weeks					
3.5	13	Chandeliers/Fixtures				Open
	Previous Meeting Minutes: **01/31/2018:** JG and GS to provide engineered lighting package for pricing					
3.6	13	Carpet	Giavona Sullivan **(The Trump Organization)**, John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/31/2018:** Final quantities still needed.					
3.7	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **01/31/2018:** Carried over from 1/24/18: Final specification still needed on hardware as well as the finish type for all door submittals Changes to door scope via 10/26/17 markups will be reviewed by JCS and presented as a CO.					
3.8	12	Pro Shop				Open
	Previous Meeting Minutes: **01/31/2018:** JCS awaits ProShop Pricing approval in order to proceed					
3.10	19	Drawings for Exterior Changes	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **01/31/2018:** Received					
3.11	19	Exterior Door Hardware	Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **01/31/2018:** Final specification still needed					

3.13	20	Radar at Cupola	Joe Roediger	12/ 20/ 2017		Open
	Description: Requirements will be provided by 12/20/2018 (AV, LV and what the roofer needs)					
	Previous Meeting Minutes: **01/31/2018:** *(None)*					
3.14	21	Brick	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/31/2018:** *(None)*					
3.15	23	Attic Windows	Ron Rainone **(Hart Howerton)**	01/ 31/ 2018		Open
	Description: See RFI #64					
	Previous Meeting Minutes: **01/31/2018:** Pending resolution of lighting issue					
3.16	24	Appliance Revisions	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Final Specifications/Changes still needed					
	Previous Meeting Minutes: **01/31/2018:** JCS to ascertain whether Sam Tell will file for their ansul system or provide Hernan Rojas with the documents to file for them					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	21	RFI #53	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Bar room ceiling connection detail needed.					
	Previous Meeting Minutes: **01/31/2018:** *(None)*					
4.2	23	Missing Beam	Ron Rainone **(Hart Howerton)**	01/ 24/ 2018		Open
	Description: See RFI #59					
	Previous Meeting Minutes: **01/31/2018:** *(None)*					
4.3	23	Truss Issues	Ron Rainone **(Hart Howerton)**	01/ 26/ 2018	High	Open

	Description: T5B T64
	Previous Meeting Minutes: **01/31/2018:** *(None)*

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	14	Plumbing Fixtures	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **01/31/2018:** JCS was told that they would receive this detail by EOW					
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **01/31/2018:** *(None)*					
5.3	20	Lighting	Giavona Sullivan **(The Trump Organization)**			Open
	Description: Lighting Plan					
	Previous Meeting Minutes: **01/31/2018:** - GS to provide JG with specs on the additional 27 sconces who will then submit to F&P to ensure energy code compliance. If energy code is a non-issue, JCS may bring price down. - Bollards - Uplighting on exterior - Final lighting package still needed - Attic/blackout window lighting - Ceiling mounted fixtures					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **01/31/2018:** Plumbing (waiting on Fixture schedule) Electric Roughs Mason ongoing					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS has yet to receive Civil drawings For Construction. Final Grades still not established					
	Previous Meeting Minutes: **01/31/2018:** JCS is still waiting on this.					
7.2	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					
	Previous Meeting Minutes: **01/31/2018:** JCS has yet to receive these drawings for Construction/Pricing. Front entry is still several weeks away from approval. The submission is several weeks away from being approved by DEC/DPW					

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
8.2	20	PCCO #012	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Wall Sconces					
	Attachments:					
	Previous Meeting Minutes: **01/31/2018:** Will remain open for final spec/energy calculation deliberations					
8.3	20	PCCO #011	John Gruber **(Trump Ferry Point LLC)**			Open
	Attachments:					
	Previous Meeting Minutes: **01/31/2018:** Millwork Bar Change Order to remain open for approval					

8.4	20	PCCO #010	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Changes to Cupola Framing Materials					
	Attachments:					
	Previous Meeting Minutes: **01/31/2018:** • Will remain open for approval.					
8.5	24	PCCO #014	John Gruber **(Trump Ferry Point LLC)**	01/ 23/ 2018	High	Open
	Description: PCCO for Door Changes via 10/26/17 redlines by HH.					
	Previous Meeting Minutes: **01/31/2018:** • Will remain open for approval.					

JCS Construction Group Inc

Printed on Wed Feb 7, 2018 at 11:37 am EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
06 6500 Simulated Wood Trim	65	0	Exterior Corbels	Shop Drawing	Open	JCS Millshop		James Falk		John Gruber (Trump Ferry Point LLC) Ron Rainone (Hart Howerton)	Gruber, John (Trump Ferry Point LLC) Rainone, Ron (Hart Howerton)	Pending Pending	02/05/2018 02/05/2018		02/07/2018	
07 2100 Thermal Insulation	64	0	Fiberglass Insulation	Product Manual	Open	JCS Construction Group, Inc.	02/07/2018	Fiona Rooney	02/05/2018	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	02/05/2018		02/07/2018	
07 2100 Thermal Insulation	62	0	Rigid Insulation	Product Information	Open	JCS Construction Group, Inc.	02/07/2018	Fiona Rooney	02/05/2018	Fiona Rooney (JCS Construction Group, Inc.)	Rainone, Ron (Hart Howerton)	Approved As Noted	02/05/2018	02/07/2018	02/07/2018	
No Spec Section	61	0	Denseglass Sheathing	Product Information	Open	JCS Construction Group, Inc.	02/07/2018	Fiona Rooney	02/05/2018	Fiona Rooney (JCS Construction Group, Inc.)	Rainone, Ron (Hart Howerton)	Approved As Noted	02/05/2018	02/06/2018	02/07/2018	
06 4100 Architectural Wood Casework	19	6	Millwork Drawings	Shop Drawing	Open	JCS Millshop	01/04/2018	James Falk		John Gruber (Trump Ferry Point LLC)	Sullivan, Giavona (The Trump Organization) Gruber, John (Trump Ferry Point LLC)	Approved As Noted Pending	01/23/2018	01/24/2018	02/07/2018	

JCS Construction Group Inc

Printed on Wed Feb 7, 2018 at 11:36 am EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact	Received From
69	Plumbing Fixtures	Open	A&M Warshaw Plumb...	Gruber, John (Tru...	02/06/2018	Fiona Rooney	02/09/2018		Gruber, John (Tru...					Warshaw, Mike (A&M Warshaw Plumbing & Heating)
68	Lighting Plan	Open	JCS Construction ...	Gruber, John (Tru...	02/06/2018	Fiona Rooney	02/09/2018		Gruber, John (Tru...		Yes (Unknown)		Yes (Unknown)	Rooney, Fiona (JCS Construction Group, Inc.)

Q: Fiona Rooney Sent Tue Feb 6, 2018 at 08:48 am EST
Please send the missing items in the plumbing schedule. This includes the water fountain, urinal and mop sink, and please go over the full package and make sure nothing else is missing.

Q: Fiona Rooney Sent Tue Feb 6, 2018 at 08:46 am EST
Please advise on the status of the lighting plan:

Interior:
Lighting detail for blacked out windows
Sconces
Ceiling-mounted fixtures

Exterior: Bollards
Uplighting on building facade

Q: Mark Smithson Sent Fri Jan 26, 2018 at 10:46 am EST
Please provide detail for the cross section in the 4 locations.

A: Ron Rainone (Hart Howerton) Responded Tue Jan 30, 2018 at 10:02 pm UTC
See attached sketches for the requested Dining Room Ceiling Details. Work these details with submittal package 46.2 provided by JCS.

Q: Justin Shaw Sent Fri Dec 8, 2017 at 12:03 pm EST
At yesterday's meeting a chandelier hanging from cupola was discussed as was mounting of a camera outside on the top. I believe both of these will need to be detailed and cleared by structural engineer.

A: Justin Shaw (JCS Construction Group, Inc.) Responded Fri Dec 8, 2017 at 10:59 pm UTC
These details will need to be provided by Owner and this RFI shall remain open until it is completed. Thanks

A: Ron Rainone (Hart Howerton) Responded Fri Dec 8, 2017 at 09:50 pm UTC
Please provide sketch of desired location of chandelier, hanging type and whether it will be on a motor (otherwise forget about changing bulbs). Also provide fixture product cut, dimensions and weight. The camera detailing is not our dicipline and needs to be done by A/V or security vendor.

Q: Justin Shaw Sent Tue Nov 7, 2017 at 04:05 pm EST
Please provide a connection detail from the C joists to the metal framing for the upper roof area.

A: Justin Shaw (JCS Construction Group, Inc.) Responded Wed Dec 6, 2017 at 06:23 pm UTC
I mean bar room ceiling.

A: Ron Rainone (Hart Howerton) Responded Fri Nov 10, 2017 at 05:26 pm UTC
See attached response from structural engineer.

INSTALLED NEW SILT FENCE

JCS Construction Group, Inc.

Meeting #27

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 02/14/2018 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Project Meeting 26 (1-3).m4a Project Meeting 26 (3-3).m4a Project Meeting 26 (2-3).m4a

ATTENDEES:

Name	Company	Phone Number	Email
David Cerron		Tel: (212) 360-3457	david.cerron@parks.nyc.gov
Joe Conforti		Tel:	joe.conforti@parks.nyc.gov
Ahmed Elmekati		Tel:	aelmekati@maserconsulting.com
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
Mark Smithson	JCS Construction Group, Inc.	Tel: (203) 485-9612	mark@jcsconstructiongroup.com
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open

Description:
Approved by Parks:

1. Relocation of outdoor kitchen on North Terrace;
2. Addition of V-groove paneled screen wall, which will be 4'-6" tall across its length, and rectilinear in profile;
3. Addition of 4" x 12" subway tile, in white sample color submitted for review, on southern wall of outdoor kitchen;
4. Revision of dormer above outdoor kitchen to include intake and exhaust louvers.
5. Alteration of entry stairs at West Elevation to run straight instead of being accessible at an angle;

	Previous Meeting Minutes: **02/07/2018:** Bar Back bar Lighting and hardware submissions Pro Shop One-single transaction desk-mahogany finish One-back of check in desk-mahogany finish One-double height 24' long men's clothing display-mahogany finish Two-hat etageres with drawers-decorative two tone painted finish Four-accessory etageres with drawers-decorative two tone painted finish Two-shoe tables with no drawers- decorative two tone painted finish Three-nested table sets (two tables per nest) - decorative two tone painted finish Two-club fixtures- decorative two tone painted finish Pro office shelving-details to be determined Built in dressing room bench-details to be determined Locker Rooms Attendant area Women's shower area Women's north wall Men's south wall Exterior Solid PVC louver Flared gable lower fronts					
3.3	13	Chandeliers/Fixtures				Open
	Previous Meeting Minutes: **02/07/2018:** JG and GS to provide engineered lighting package for pricing					
3.4	13	Carpet	Giavona Sullivan **(The Trump Organization),** John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **02/07/2018:** Final quantities still needed.					
3.5	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **02/07/2018:** Carried over from 1/24/18: Final specification still needed on hardware as well as the finish type for all door submittals Changes to door scope via 10/26/17 markups will be reviewed by JCS and presented as a CO.					
3.6	12	Pro Shop				Open

	Previous Meeting Minutes: **02/07/2018:** Per JS, RR to provide additional details					
4.3	23	Truss Issues	Ron Rainone **(Hart Howerton)**	01/ 26/ 2018	Medium	Open
	Description: T5B T64					
	Previous Meeting Minutes: **02/07/2018:** Ongoing					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **02/07/2018:** JCS is still waiting on this.					
5.3	20	Lighting	Giavona Sullivan **(The Trump Organization)**			Open
	Description: Lighting Plan					
	Previous Meeting Minutes: **02/07/2018:** - GS to provide JG with specs on the additional 27 sconces who will then submit to F&P to ensure energy code compliance. If energy code is a non-issue, JCS may bring price down. - Bollards - Uplighting on exterior - Final lighting package still needed - Attic/blackout window lighting - Ceiling mounted fixtures Per JG, hi hats will remain per plan and not be replaced with ceiling mounted fixtures per prior discussion. There is no plan to get an interior lighting consultant or revised RCPs.					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open

	Description: Wall Sconces					
	Attachments: PCCO #012.pdf					
	Previous Meeting Minutes: **02/07/2018:** Will remain open for final spec/energy calculation deliberations					
8.3	20	PCCO #011	John Gruber **(Trump Ferry Point LLC)**			Open
	Attachments: PCCO #011.pdf					
	Previous Meeting Minutes: **02/07/2018:** Millwork Bar Change Order to remain open for approval					
8.4	20	PCCO #010	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Changes to Cupola Framing Materials					
	Attachments: PCCO #010.pdf					
	Previous Meeting Minutes: **02/07/2018:** Will remain open for approval.					
8.5	24	PCCO #014	John Gruber **(Trump Ferry Point LLC)**	01/ 23/ 2018	High	Open
	Description: PCCO for Door Changes via 10/26/17 redlines by HH.					
	Previous Meeting Minutes: **02/07/2018:** • Will remain open for approval.					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Feb 13, 2018 at 04:47 pm EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
07 7200 Roof Accessories	70	0	PD10 Snowguards	Product Information	Open	J&C Building Renovations LLC		Cezary Bartosiewicz		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	02/12/2018		02/14/2018	
06 4100 Architectural Wood Casework	69	0	Louvered Panel	Shop Drawing	Open	JCS Millshop		James Falk		Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	02/12/2018		02/16/2018	
No Spec Section	60	0	Bar Hardware	Product Information	Open	JCS Millshop	01/26/2018	James Falk	01/23/2018	Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization) Rainone, Ron (Hart Howerton)	Pending Pending	01/23/2018		01/26/2018	
06 4100 Architectural Wood Casework	19	6	Millwork Drawings	Shop Drawing	Open	JCS Millshop	01/04/2018	James Falk		John Gruber (Trump Ferry Point LLC)	Sullivan, Giavona (The Trump Organization) Gruber, John (Trump Ferry Point LLC)	Approved As Noted Pending	01/23/2018	01/24/2018	02/07/2018	
09 3033 Stone Tiling	16	2	Bluestone Patio Stone	Document	Open	WESTCHESTER MASONRY DEPOT				Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	02/13/2018		02/16/2018	

JCS | Construction Group, LLC

TWO-WEEK LOOK AHEAD

February 14th 2018

Project Name: Ferry Point **Job # 16-031** **Weekly Project Meeting Wednesday 10AM**

ACTIVITY	Week 1							Week 2							Comments
DATE:	Mon 2/12	Tues 2/13	Wed 2/14	Thu 2/15	Fri 2/16	Sat 2/17	Sun 2/18	Mon 2/19	Tues 2/20	Wed 2/21	Thu 2/22	Fri 2/23	Sat 2/24	Sun 2/25	
Rebar	x							x		x					Ramps
Concrete	x							x							Front entry/ Maser scheduled
Plumbing	x	x	x	x	x			x	x	x	x	x			Roughings
Electric	x	x	x	x	x			x	x	x	x	x			Roughings
Roof	x	x	x	x	x	x		x	x		x	x	x		
Framing	x	x	x	x	x	x		x	x	x	x	x	x		Cupola, dining room, interior, windows
Mason	x	x	x	x	x	x		x	x	x	x	x	x		Patio area
EAI															

44 Homestead Avenue, Stamford, CT 06902 t:(203) 485-9612 f:(203) 724-3884

JCS Construction Group, Inc.

Meeting #29

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 02/28/2018 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Project Meeting 28.m4a

ATTENDEES:

Name	Company	Phone Number	Email
David Cerron		Tel: (212) 360-3457	david.cerron@parks.nyc.gov
Joe Conforti		Tel:	joe.conforti@parks.nyc.gov
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com
Quinton Davis	Maser Consulting P.A.	Tel:	qdavis@maserconsulting.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Giavona Sullivan	The Trump Organization	Tel:	gsulllvan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open

Previous Meeting Minutes:

02/21/2018:
This item will remain open until Mockup of Window Blackout detail is complete: there is no lighting behind the windows AS YET due to absence of any lighting plan, RCP, energy calculations etc.
Will radar installation require PDC approval?

1.2	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **02/21/2018:** Per JG, after Materials and design for the front entry are approved by PDC, the TO will commission an EXTERIOR lighting plan. Open Items Include: Drainage Belgian Blok Path Dimensions/Turning Radius Grades Lighting Plan					

DEC

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
2.1	18	SSDS Update	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **02/21/2018:** Previous changes to SSDS system were resolved via RFI and PCCO #013. All deviations from approved shops will be indicated in as-builts.					
2.2	22	Maser	Dave Keil **(Maser Consulting P.A.)**			Open
	Previous Meeting Minutes: **02/21/2018:** All Maser to email DFRs to Kay and Steve.					

Architectural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
3.1	1	Submittals	Ron Rainone **(Hart Howerton)**			Open
	Description: Review Submittal Log					
	Previous Meeting Minutes: **02/21/2018:** *(None)*					
3.2	9	Millwork	Ron Rainone **(Hart Howerton)**			Open
	Description: JCS Millshop requires at least 2 weeks after receipt of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.					
	Previous Meeting Minutes: **02/21/2018:** Bar Back bar Lighting and hardware submissions Locker Rooms Attendant area Women's shower area					

	Women's north wall Men's south wall Exterior Solid PVC louver					
3.3	13	Chandeliers/Fixtures				Open
	Previous Meeting Minutes: **02/21/2018:** GS to provide dimensioned ceiling plan for chandelier locations					
3.4	13	Carpet	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **02/21/2018:** *(None)*					
3.5	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **02/21/2018:** Interior Door scope and submittal to be revised per changes by TO.					
3.6	12	Pro Shop				Open
	Previous Meeting Minutes: **02/21/2018:** Proshop has been removed from JCS scope and will be backed out of contract via credit PCCO					
3.7	19	Drawings for Exterior Changes	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **02/21/2018:** JCS awaits PDC approval and direction on landscape.					
3.8	19	Exterior Door Hardware	Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **02/21/2018:** Final specification still needed					
3.10	23	Attic Windows	Ron Rainone **(Hart Howerton)**	01/ 31/ 2018		Open
	Description: See RFI #64					

	Previous Meeting Minutes: **02/21/2018:** *(None)*					
3.11	24	Appliance Revisions	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Final Specifications/Changes still needed. JCS received Shop Drawings, waiting on kitchen change order package to be broken out by Sam Tell					
	Previous Meeting Minutes: **02/21/2018:** Per Arthur Fisher, there are upcoming changes. TO to clarify					
3.12	29	Foil/FSK-Faced vs Unfaced Batting	Ron Rainone **(Hart Howerton)**	02/ 28/ 2018		Open
	Description: The drawings do not call for Foil Faced but per: Spec Section: 07 2100 - Thermal Insulation Submittal #: 64.0 Title: Fiberglass Insulation FSK: Additional $14,0000.00 Foil:Additional $10,000.00					
	Attachments: 300 Hutchinson FSK River Parkway Bronx, New York 10465. (Arl.- 3-7.5).pdf 300 Hutchinson Foil River Parkway Bronx, New York 10465. (Arl.- 3-7.5).pdf					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
4.1	21	RFI #53	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Bar room ceiling connection detail needed.					
	Previous Meeting Minutes: **02/21/2018:** JCS is still waiting on this.					
4.2	23	Missing Beam	Ron Rainone **(Hart Howerton)**	01/ 24/ 2018		Open
	Description: See RFI #59					
	Previous Meeting Minutes: **02/21/2018:** Per JS, RR to provide additional details					
4.3	23	Truss Issues	Ron Rainone **(Hart Howerton)**	01/ 26/ 2018	Medium	Open
	Description: T5B T64					

	Previous Meeting Minutes: **02/21/2018:** *(None)*					
4.4	27	Roof Bump Out	Ron Rainone **(Hart Howerton)**			Open
	Description: See attached photo					
	Attachments: 54075827858__EEE54269-2E7B-43E7-89D4-610711281954.jpeg					
	Previous Meeting Minutes: **02/21/2018:** *(None)*					

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **02/21/2018:** JCS is still waiting on this.					
5.3	20	Lighting	Giavona Sullivan **(The Trump Organization)**			Open
	Description: Lighting Plan					
	Previous Meeting Minutes: **02/21/2018:** *(None)*					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **02/21/2018:** *(None)*					
6.2	26	Schedule Delay	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**	02/ 01/ 2018	High	Open
	Previous Meeting Minutes: **02/21/2018:**					

All open change orders and lack of approvals on the follow will incur corresponding schedule delays:
Interior doors package
Dining room ceiling
Bar
Lighting plan: JG to send comprehensive delineation of the lighting plan scope by TO and JCS. Including specs for recessed downlights. Which fixtures are by owner? Does the quantity stay the same? Added lights will be $105/recessed and $70/box labor if TO provides fixture.

According to JG, the plan is to hold all change orders until the team has one, comprehensive change order "package" (ie: HVAC, doors, millwork, PDC exterior package, lighting plan, etc) to present to ET for approval. As pointed out by JR, this desire to adhere to protocol will exacerbate delays in schedule

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **02/21/2018:** Due to open Exterior PDC submission, JCS has yet to receive Civil drawings For Construction and final Grades are still not established					
7.2	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					
	Previous Meeting Minutes: **02/21/2018:** Due to open Exterior PDC submission, JCS has yet to receive these drawings for Construction/Pricing.					
7.3	27	Telecom	John Gruber **(Trump Ferry Point LLC)**	02/ 21/ 2018		Open
	Description: Earthwork					
	Previous Meeting Minutes: **02/21/2018:** Backcharge for damage to conduit to be backcharged to Atlas. JCS received one of two invoices for the BC. Credit to be issued through PCCO. American Integrated Security Group was in attendance to discuss the radar at cupola and consult on suggested means of pricing, powering and installing this item. Lightning Protection is desired by TO and requires the use of the highest point, which is the desired location for the radar due to maximum visibility, but the lightning Protection is pointless if not at peak. Is threaded rod enough support for lightning protection?					

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
8.2	20	PCCO #012	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Interior Lighting					

	Attachments: PCCO #012.pdf					
	Previous Meeting Minutes: **02/21/2018:** JCS received a partial lighting plan from TO showing desired locations. No energy calculations have been provided as of today because, per JG engineered lighting plan is not required if we are replacing in kind but we are not because there are additional lights at the bar, at the proshop ceiling, recessed downlights, window backlighting, etc.					
8.3	20	PCCO #011	John Gruber (**Trump Ferry Point LLC**)			Open
	Attachments: PCCO #011.pdf					
	Previous Meeting Minutes: **02/21/2018:** Millwork Bar Change Order to remain open for approval					
8.4	20	PCCO #010	John Gruber (**Trump Ferry Point LLC**)	01/ 02/ 2018	High	Open
	Description: Changes to Cupola Framing Materials					
	Attachments: PCCO #010.pdf					
	Previous Meeting Minutes: **02/21/2018:** Will remain open for approval.					
8.5	24	PCCO #014	John Gruber (**Trump Ferry Point LLC**)	01/ 23/ 2018	High	Open
	Description: PCCO for Door Changes					
	Previous Meeting Minutes: **02/21/2018:** Will remain open for further shop drawings review and potential reduction of scope.					
8.6	27	PCCO #15	Joe Roediger	02/ 21/ 2018		Open
	Description: APPROVED					
	Previous Meeting Minutes: **02/21/2018:** *(None)*					
8.7	27	PCCO #016	John Gruber (**Trump Ferry Point LLC**)	02/ 21/ 2018		Open
	Description: Changes to the Dormer per A3.02					

	Previous Meeting Minutes: **02/21/2018:** APPROVED					
8.8	27	PCCO #017	John Gruber **(Trump Ferry Point LLC)**	02/ 21/ 2018		Open
	Description: Lighting Protection					
	Previous Meeting Minutes: **02/21/2018:** Will remain open for approval.					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Wed Feb 28, 2018 at 09:58 am EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact
3	Door Hardware	Open	JCS Construction ...	Shaw, Justin (JCS Construction Group, Inc.)	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...				
19	JCS Millshop RFI #1	Open	JCS Millshop	Falk, James (JCS Millshop)	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...				
49	Leaders	Open	JCS Construction ...	Shaw, Justin (JCS Construction Group, Inc.)	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...				
53	CFM Roof Framing Connection	Open	JCS Construction ...	Shaw, Justin (JCS Construction Group, Inc.)	Rainone, Ron (Har...	11/07/2017	Justin Shaw	11/10/2017		Shaw, Justin (JCS...				
56	Cupola Items	Open		None	Rainone, Ron (Har...	12/08/2017	Justin Shaw	12/11/2017		Shaw, Justin (JCS...				Yes (Unknown)
59	Missing Beam for Trusses	Open	French & Parrello...	None	Rainone, Ron (Har...	01/10/2018	Fiona Rooney	01/13/2018		Rooney, Fiona (JC...	At grid line F11	5 days		Yes (Unknown)
68	Lighting Plan	Open	JCS Construction ...	Rooney, Fiona (JCS Construction Group, Inc.)	Gruber, John (Tru...	02/06/2018	Fiona Rooney	02/09/2018		Rooney, Fiona (JC...		Yes (Unknown)		Yes (Unknown)
72	electric RFI	Open	Linphill Electric...	Perez, Eddie (Linphill Electrical Contractors)	Gruber, John (Tru...	02/21/2018	Fiona Rooney	02/24/2018		Gruber, John (Tru...				
73	Rowlock	Open		None	Rainone, Ron (Har...	02/21/2018	Fiona Rooney	02/24/2018		Rainone, Ron (Har...				
75	Trump Links Gas Usage	Open	A&M Warshaw Plumb...	Bruno, Cristine (A&M Warshaw Plumbing & Heating)	Rainone, Ron (Har...	02/26/2018	Fiona Rooney	03/01/2018		Rainone, Ron (Har...				
76	Exterior Trim Louver	Open	JCS Construction ...	Shaw, Justin (JCS Construction Group, Inc.)	Rainone, Ron (Har...	02/28/2018	Fiona Rooney	03/03/2018		Rainone, Ron (Har...				
77	Foil/FSK-Faced vs Unfaced Batting	Open	Energy Spray Syst...	None	Rainone, Ron (Har...	02/28/2018	Fiona Rooney	03/03/2018		Rainone, Ron (Har...				Yes (Unknown)

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Wed Feb 28, 2018 at 09:57 am EST

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
No Spec Section	72	0	Captive Aire		Open	Sam Tell Companies	03/02/2018	Arthur Fisher	02/23/2018	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	02/23/2018		03/09/2018	
No Spec Section	60	0	Bar Hardware	Product Information	Open	JCS Millshop	01/26/2018	James Falk	01/23/2018	Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization) Rainone, Ron (Hart Howerton)	Pending Pending	01/23/2018		01/26/2018	
No Spec Section	59	1	Locker Room Concepts	Shop Drawing	Open	JCS Millshop	02/28/2018	James Falk		Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending	02/21/2018		02/28/2018	
06 4100 Architectural Wood Casework	19	6	Millwork Drawings	Shop Drawing	Open	JCS Millshop	01/04/2018	James Falk		John Gruber (Trump Ferry Point LLC)	Sullivan, Giavona (The Trump Organization) Gruber, John (Trump Ferry Point LLC)	Approved As Noted Pending	01/23/2018	01/24/2018	02/07/2018	

JCS Construction Group, Inc.

Meeting #31

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 03/14/2018 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Project Meeting #30.m4a

ATTENDEES:

Name	Company	Phone Number	Email
David Cerron		Tel: (212) 360-3457	david.cerron@parks.nyc.gov
Joe Conforti		Tel:	joe.conforti@parks.nyc.gov
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com
Quinton Davis	Maser Consulting P.A.	Tel:	qdavis@maserconsulting.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Previous Meeting Minutes: **02/08/2018:** Approved by PDC JCS needs the placement for slab and stone at the gazebo now in order to install pull box from the planting bed for conduit now					
1.2	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open

	Previous Meeting Minutes: **02/08/2018:** GS to provide Gemini weight, and support spec					
3.4	13	Carpet	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **02/08/2018:** 3600 SF PCCO for plank flooring install vs carpet Does ownership require shoe molding?					
3.5	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **02/08/2018:** JG will provide a color coded plan using schedule to show door #s, lock type and swing. JCS sent TO the door schedule.					
3.7	19	Drawings for Exterior Changes	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **02/08/2018:** Since last week's deadline of 2/28, TO received approval from PDC. JG sent the approval to F&P and should have grading and civil today. Lightolier sent something to JG late 3/7 The sidewalks, bollards and lighting are on LP-1.					
3.8	19	Exterior Door Hardware	Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **02/08/2018:** JG to provide hardware spec and color coded plan using schedule to show door #s, lock type and swing for exterior package. The door to coat closet is NOT a dutch door.					
3.10	23	Attic Windows	Ron Rainone **(Hart Howerton)**	01/ 31/ 2018		Open
	Description: See RFI #64					
	Previous Meeting Minutes: **02/08/2018:** This item will remain open until Mockup of Window Blackout detail is complete: there is no lighting behind the windows AS YET due to absence of any lighting plan, RCP, energy calculations etc.					

	Description: See item 1.2, 3.10, 8.2
	Previous Meeting Minutes: **02/08/2018:** JG to give bollard counts to Lightolier

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **02/08/2018:** Dirt infilling this week					
6.2	26	Schedule Delay	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**	02/ 01/ 2018	High	Open
	Previous Meeting Minutes: **02/08/2018:** Waiting on Sam Tell Change order Waiting on final grades/civil drawings per PDC submittal Waiting on pricing for changes on Interior Doors					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: As of 3/7/2018: F&P to begin the grading and drainage plan.					
	Previous Meeting Minutes: **02/08/2018:** Due to open Exterior PDC submission, JCS has yet to receive Civil drawings For Construction and final Grades are still not established but TO expects to be able to deliver these to JCS today					
7.2	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					
	Previous Meeting Minutes: **02/08/2018:**					

8.5	30	PCCO #019	John Gruber **(Trump Ferry Point LLC)**	03/ 07/ 2018		Open
	Description: Labor Associated with Plank Floor Install					
	Attachments: PCCO #019 Labor Associated with Plank Floor Install.pdf					
	Previous Meeting Minutes: **02/08/2018:** *(None)*					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Mar 13, 2018 at 03:19 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

All Submittals

Spec Section	#	Rev.	Title	Type	Status	Responsible Contractor	Submit By	Received From	Received Date	Ball In Court	Approvers	Response	Sent Date	Returned Date	Final Due Date	Distributed Date
No Spec Section	76	0	Trane		Open	COHO HVAC, INC	03/20/2018	Danny Yilmaz	03/13/2018	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	03/13/2018		03/20/2018	
No Spec Section	75	0	Distribution Components		Open	Linphill Electrical Contractors	03/19/2018	Floyd Caiazzo	03/12/2018	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	03/12/2018		03/19/2018	
11000 Equipment	73	0	Equipment Cut Book	Product Information	Open	Sam Tell Companies	03/07/2018	Arthur Fisher	03/02/2018	Kevin Dwyer (French & Parrello Associates) Ron Rainone (Hart Howerton)	Dwyer, Kevin (French & Parrello Associates) Rainone, Ron (Hart Howerton)	Pending Pending	03/05/2018 03/05/2018		03/07/2018	
No Spec Section	72	0	Captive Aire		Open	Sam Tell Companies	03/02/2018	Arthur Fisher	02/23/2018	Ron Rainone (Hart Howerton)	Rainone, Ron (Hart Howerton)	Pending	02/23/2018		03/09/2018	
No Spec Section	60	0	Bar Hardware	Product Information	Open	JCS Millshop	01/26/2018	James Falk	01/23/2018	Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization) Rainone, Ron (Hart Howerton)	Pending Pending	01/23/2018		01/26/2018	
No Spec Section	59	1	Locker Room Concepts	Shop Drawing	Open	JCS Millshop	02/28/2018	James Falk		Giavona Sullivan (The Trump Organization)	Sullivan, Giavona (The Trump Organization)	Pending	02/21/2018		02/28/2018	

JCS Construction Group, Inc.

Meeting #33

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 04/04/2018 **MEETING TIME:** 10:00 AM - 12:00 PM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Meeting 31.m4a

ATTENDEES:

Name	Company	Phone Number	Email
David Cerron		Tel: (212) 360-3457	david.cerron@parks.nyc.gov
Joe Conforti		Tel:	joe.conforti@parks.nyc.gov
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com
Quinton Davis	Maser Consulting P.A.	Tel:	qdavis@maserconsulting.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open

Previous Meeting Minutes:

03/29/2018:
03/14/18:
Approved by PDC
JCS needs the placement for slab and stone at the gazebo now in order to install pull box from the planting bed for conduit now
What is the cover detail for planting bed?
Pre-package top soil does not require testing.
Backfill with shaping layer to sub grade of -1ft, pour 1ft sand on top of that, dig a 2x2 hole and backfill with bagged material to top of sand does not require Maser or IEM present, W&C requests heads up to be in compliance with Parks requirements.

	TO to specify Television Mounting Bracket					
3.3	13	Chandeliers/Fixtures				Open
	Previous Meeting Minutes: **03/29/2018:** GS to provide Gemini weight, and support spec					
3.4	13	Carpet	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **03/29/2018:** 3600 SF PCCO for plank flooring install vs carpet Will address the need for shoe molding after install of flooring					
3.5	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **03/29/2018:** JG will provide a color coded plan using schedule to show door #s, lock type and swing. JCS sent TO the door schedule.					
3.6	19	Drawings for Exterior Changes	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **03/29/2018:** Since last week's deadline of 2/28, TO received approval from PDC. JG sent the approval to F&P and should have has grading and civil plans two weeks ago per JG Lightolier sent something to JG late 3/7 (WHAT WAS THIS?) The sidewalks, bollards and lighting are on LP-1 which JCS Has not received to date					
3.7	19	Exterior Door Hardware	Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **03/29/2018:** JG to provide hardware spec and color coded plan using schedule to show door #s, lock type and swing for exterior package.					
3.8	23	Attic Windows	Ron Rainone **(Hart Howerton)**	01/ 31/ 2018		Open
	Description: See RFI #64					
	Previous Meeting Minutes: **03/29/2018:** *(None)*					
3.9	29	Foil/FSK-Faced vs Unfaced Batting	Ron Rainone **(Hart Howerton)**	02/ 28/ 2018		On Hold

	Review two week look ahead.					
	Previous Meeting Minutes: **03/29/2018:** *(None)*					
6.2	26	Schedule Delay	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**	02/ 01/ 2018	High	Open
	Previous Meeting Minutes: **03/29/2018:** Waiting on final grades/civil drawings per PDC submittal					

Civil

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
7.1	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Description: As of 3/7/2018: F&P to begin the grading and drainage plan. JCS top work off of site plan that F&P provides.					
	Previous Meeting Minutes: **03/29/2018:** Due to open Exterior PDC submission, JCS has yet to receive Civil drawings For Construction and final Grades are still not established. TO expecTED to be able to deliver these to JCS 2 weeks ago.					
7.2	12	Front Driveway	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Additional/Changes to Design and Scope					
	Previous Meeting Minutes: **03/29/2018:** Due to open Exterior PDC submission, JCS has yet to receive these drawings for Construction/Pricing.					

Change Orders

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
8.1	20	PCCO #010	John Gruber **(Trump Ferry Point LLC)**	01/ 02/ 2018	High	Open
	Description: Changes to Cupola Framing Materials					
	Attachments: PCCO #010.pdf					
	Previous Meeting Minutes: **03/29/2018:** Will remain open for approval.					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue Apr 3, 2018 at 02:29 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact
3	Door Hardware	Open	JCS Construction ...	Shaw, Justin (JCS Construction Group, Inc.)	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...				
19	JCS Millshop RFI #1	Open	JCS Millshop	Falk, James (JCS Millshop)	Rainone, Ron (Har...	07/31/2017	Fiona Rooney	08/03/2017		Rainone, Ron (Har...				
49	Leaders	Open	JCS Construction ...	Shaw, Justin (JCS Construction Group, Inc.)	Rainone, Ron (Har...	10/06/2017	Fiona Rooney	10/09/2017		Rainone, Ron (Har...				
53	CFM Roof Framing Connection	Open	JCS Construction ...	Shaw, Justin (JCS Construction Group, Inc.)	Rainone, Ron (Har...	11/07/2017	Justin Shaw	11/10/2017		Shaw, Justin (JCS...				
56	Cupola Items	Open		None	Rainone, Ron (Har...	12/08/2017	Justin Shaw	12/11/2017		Shaw, Justin (JCS...				Yes (Unknown)
59	Missing Beam for Trusses	Open	French & Parrello...	None	Rainone, Ron (Har...	01/10/2018	Fiona Rooney	01/13/2018		Rooney, Fiona (JC...	At grid line F11	5 days		Yes (Unknown)
72	electric RFI	Open	Linphill Electric...	Perez, Eddie (Linphill Electrical Contractors)	Gruber, John (Tru...	02/21/2018	Fiona Rooney	02/24/2018		Rooney, Fiona (JC...		Yes (Unknown)		
75	Trump Links Gas Usage	Open	A&M Warshaw Plumb...	Bruno, Cristine (A&M Warshaw Plumbing & Heating)	Rainone, Ron (Har...	02/26/2018	Fiona Rooney	03/01/2018		Rooney, Fiona (JC...				

JCS Construction Group, Inc.

Meeting #35

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 04/18/2018 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

Meeting 34.m4a

ATTENDEES:

Name	Company	Phone Number	Email
David Cerron		Tel: (212) 360-3457	david.cerron@parks.nyc.gov
Joe Conforti		Tel:	joe.conforti@parks.nyc.gov
Steven Lauria		Tel:	slauria@woodardcurran.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com
Quinton Davis	Maser Consulting P.A.	Tel:	qdavis@maserconsulting.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Previous Meeting Minutes: **04/11/2018:** Curb PCCO open					
1.2	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open
	Previous Meeting Minutes: **04/11/2018:**					

2012-016 JCL
Samples

	JCS awaiting TO approval to proceed on plank flooring					
3.4	16	Doors and Hardware	Giavona Sullivan **(The Trump Organization)**	11/ 23/ 2017		Open
	Description: Interior Doors Hardware					
	Previous Meeting Minutes: **04/11/2018:** Door delivery first week of May					
3.5	19	Exterior Door Hardware	Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **04/11/2018:** JG to provide hardware spec and color coded plan using schedule to show door #s, lock type and swing for exterior package					
3.6	23	Attic Windows	Ron Rainone **(Hart Howerton)**	01/ 31/ 2018		Open
	Description: See RFI #64					
	Previous Meeting Minutes: **04/11/2018:** This item will remain open until Mockup of Window Blackout detail is complete: there is no lighting behind the windows AS YET due to absence of any lighting plan, RCP, energy calculations etc.					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.2	14	Plumbing Drawings	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Amended Plumbing drawings need to be signed and sealed and submitted for processing by DOB. Design team needs to bubble changes.					
	Previous Meeting Minutes: **04/11/2018:** JCS has yet to receive these drawings.					
5.3	20	Electrical	Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **04/11/2018:** FA Plan Review Objection, TO/Hernan to resolve.					

	Description: Interior Lighting					
	Attachments: PCCO #012.pdf					
	Previous Meeting Minutes: **04/11/2018:** Will remain open for approval.					
8.3	30	PCCO #019	John Gruber **(Trump Ferry Point LLC)**	03/ 07/ 2018		Open
	Description: Labor Associated with Plank Floor Install					
	Attachments: PCCO #019 Labor Associated with Plank Floor Install.pdf					
	Previous Meeting Minutes: **04/11/2018:** Will remain open for approval.					
8.4	31	PCCO #020	John Gruber **(Trump Ferry Point LLC)**			Open
	Description: Lower Urinal					
	Previous Meeting Minutes: **04/11/2018:** Will remain open for approval.					
8.5	33	PCCO #21	John Gruber **(Trump Ferry Point LLC)**	04/ 04/ 2018		Open
	Description: Low Volatge Installation					
	Previous Meeting Minutes: **04/11/2018:** Will remain open for approval.					
8.6	33	PCCO #022	John Gruber **(Trump Ferry Point LLC)**	04/ 05/ 2018		Open
	Description: Reinstall Underlayment					
	Previous Meeting Minutes: **04/11/2018:** Will remain open for approval.					
8.7	33	PCCO #023	John Gruber **(Trump Ferry Point LLC)**	04/ 10/ 2018		Open
	Description:					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Wed Apr 18, 2018 at 07:45 am EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact
80	Sam Tell RFI 1	Open	Sam Tell Companies	LoBianco, John (Sam Tell Companies)	Rainone, Ron (Har...	04/05/2018	Fiona Rooney	04/08/2018		Rooney, Fiona (JC...				
75	Trump Links Gas Usage	Open	A&M Warshaw Plumb...	Bruno, Cristine (A&M Warshaw Plumbing & Heating)	Rainone, Ron (Har...	02/26/2018	Fiona Rooney	03/01/2018		Rooney, Fiona (JC...				
72	electric RFI	Open	Linphill Electric...	Perez, Eddie (Linphill Electrical Contractors)	Gruber, John (Tru...	02/21/2018	Fiona Rooney	02/24/2018		Rooney, Fiona (JC...		Yes (Unknown)		
59	Missing Beam for Trusses	Open	French & Parrello...	None	Rainone, Ron (Har...	01/10/2018	Fiona Rooney	01/13/2018		Rooney, Fiona (JC...	At grid line F11	5 days		Yes (Unknown)
3	Door Hardware	Open	JCS Construction ...	Shaw, Justin (JCS Construction Group, Inc.)	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...				

EARTHWORK
PARKING LOT MATERIAL
BEING MOVED TODAY
SHOULD BE FINISHED THIS WEEK

JCS | Construction Group, Inc.

Meeting #38

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

AT FUR ALTED WARRIS
VARIZON

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Minutes

MEETING DATE: 05/16/2018 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

NOTES:

ATTACHMENTS:

ATTENDEES:

Name	Company	Phone Number	Email	Attendance
David Cerron		Tel: (212) 360-3457	david.cerron@parks.nyc.gov	Absent
Joe Conforti		Tel:	joe.conforti@parks.nyc.gov	Absent
Steven Lauria		Tel:	slauria@woodardcurran.com	Conference
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com	Present
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com	Present
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com	Present
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com	Present
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com	For Distribution Only
Quinton Davis	Maser Consulting P.A.	Tel:	qdavis@maserconsulting.com	Absent
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com	Absent
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com	Absent
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com	Absent
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com	Present

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Previous Meeting Minutes: **05/02/2018:** *(None)*					
1.2	13	Landscape	John Gruber **(Trump Ferry Point LLC)**			Open

These meeting minutes are believed to be an accurate reflection of those items discussed and the conclusions that were reached during the referenced meeting.
Please contact JCS Construction Group Inc if there are any discrepancies or questions with the content of these minutes.

	Previous Meeting Minutes: **05/02/2018:** JG to provide hardware spec and color coded plan using schedule to show door #s, lock type and swing for exterior package					
3.4	23	Attic Windows	Ron Rainone **(Hart Howerton)**	01/ 31/ 2018		Open
	Description: See RFI #64					
	Official Documented Meeting Minutes: This item will remain open until Mockup of Window Blackout detail is complete: there is no lighting behind the windows AS YET due to absence of any lighting plan, RCP, energy calculations etc.					
	Previous Meeting Minutes: **05/02/2018:** This item will remain open until Mockup of Window Blackout detail is complete: there is no lighting behind the windows AS YET due to absence of any lighting plan, RCP, energy calculations etc.					
3.5	38	Trex Rail Height	Ron Rainone **(Hart Howerton)**	05/ 17/ 2018		Open
	Description: Is it acceptable to 39" rail height vs 42"? WHAT IS CODE ???					

Structural

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status

MEP

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
5.1	37	Permit Applications	Arthur Fisher **(Sam Tell Companies)**	05/ 09/ 2018	High	Open
	Official Documented Meeting Minutes: Sam Tell to file duct permits, VFA and HH to amend permit application per plan.					
	Previous Meeting Minutes: **05/02/2018:** *(None)*					
5.2	20	Electrical	Giavona Sullivan **(The Trump Organization)**			Open
	Previous Meeting Minutes: **05/02/2018:** Lighting Scope is unclear					

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Official Documented Meeting Minutes: - Lighting Plan - Fire Alarm					

These meeting minutes are believed to be an accurate reflection of those items discussed and the conclusions that were reached during the referenced meeting.

Please contact JCS Construction Group Inc if there are any discrepancies or questions with the content of these minutes.

8.3	35	PCCO #024	John Gruber **(Trump Ferry Point LLC)**	05/ 16/ 2018	High	Open
	Description: New Sprinkler Design					
	Attachments: PCCO #024.pdf					
	Previous Meeting Minutes: **05/02/2018:** Under review pending submittal response					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Wed May 16, 2018 at 09:24 am EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact
75	Trump Links Gas Usage	Open	A&M Warshaw Plumb...	Bruno, Cristine (A&M Warshaw Plumbing & Heating)	Rainone, Ron (Har...	02/26/2018	Fiona Rooney	03/01/2018		Rooney, Fiona (JC...				
72	electric RFI	Open	Linphill Electric...	Perez, Eddie (Linphill Electrical Contractors)	Gruber, John (Tru...	02/21/2018	Fiona Rooney	02/24/2018		Rooney, Fiona (JC...		Yes (Unknown)		
59	Missing Beam for Trusses	Open	French & Parrello...	None	Rainone, Ron (Har...	01/10/2018	Fiona Rooney	01/13/2018		Rooney, Fiona (JC...	At grid line F11	5 days		Yes (Unknown)
3	Door Hardware	Open	JCS Construction ...	Shaw, Justin (JCS Construction Group, Inc.)	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...				

JCS Construction Group, Inc.

Meeting #40

JCS Construction Group Inc
44 Homestead Ave.
Stamford, Connecticut 06902
Phone: (203) 485-9612

Project: 16-031 - Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

Construction Meeting Agenda

MEETING DATE: 05/23/2018 **MEETING TIME:** 10:00 AM - 11:00 AM Eastern Time (US & Canada)

MEETING LOCATION: Ferry Point Site

OVERVIEW:

ATTACHMENTS:

ATTENDEES:

Name	Company	Phone Number	Email
Matt Calamari		Tel:	mcalamari@trumporg.com
David Cerron		Tel: (212) 360-3457	david.cerron@parks.nyc.gov
Joe Conforti		Tel:	joe.conforti@parks.nyc.gov
Steven Lauria		Tel:	slauria@woodardcurran.com
Ron Leiberman		Tel:	rlieberman@trumporganization.com
Scott Palma		Tel:	prplumbing@aol.com
Joe Roediger		Tel: (718) 414-1560	jroediger@trumpgolflinks.com
Ron Rainone	Hart Howerton	Tel: (212) 683-5631	rrainone@harthowerton.com
Fiona Rooney	JCS Construction Group, Inc.	Tel: (203) 485-9612 ext. 158	fiona@jcsconstructiongroup.com
Justin Shaw	JCS Construction Group, Inc.	Tel: (203) 485-9612	justin@jcsconstructiongroup.com
James Falk	JCS Millshop	Tel: (203) 485-9612 ext. 153	james@jcsconstructiongroup.com
Quinton Davis	Maser Consulting P.A.	Tel:	qdavis@maserconsulting.com
Dave Keil	Maser Consulting P.A.	Tel:	dkeil@maserconsulting.com
Arthur Fisher	Sam Tell Companies	Tel:	afisher@samtell.com
Giavona Sullivan	The Trump Organization	Tel:	gsullivan@trumporg.com
Brandon Torre	The Trump Organization	Tel:	btorre@trumpgolflinks.com
John Gruber	Trump Ferry Point LLC	Tel: (908) 296-6025	jgruber@trumporg.com

Parks

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
1.1	8	Exterior Changes	Joe Roediger			Open
	Previous Meeting Minutes: **05/16/2018:** *(None)*					

TREX

RR to determine if the standard 36" Trex railings can be used instead of the specified 42" height. RR responded saying that the conditions as built do not require the 42" rail by code so the 36" stock railing kits are acceptable.

3.2	9	Millwork	Ron Rainone **(Hart Howerton)**			On Hold

Description:
JCS Millshop requires at least 2 weeks after receipt of control sample and final approved interior drawings in order to create the next round of shops for approval. Upon approval, fabrication will begin.

Previous Meeting Minutes:
05/16/2018: *(None)*

3.3	19	Exterior Door Hardware	Giavona Sullivan **(The Trump Organization)**			Open

Previous Meeting Minutes:
05/16/2018:
Exterior lanterns, shower seats, grab bars are all onsite. Plumbing trim not delivered but is avail. All Interior hardware by Omni including closers are due Thursday or Friday. Exterior is mainly push-pulls, mortise locks and closers and are being delivered in the next couple of days. Carpenters to install four hinges per the metal doors. JG to check on Von Dubran.

3.4	23	Attic Windows	Ron Rainone **(Hart Howerton)**	01/ 31/ 2018		Open

Description:
See RFI #64

Previous Meeting Minutes:
05/16/2018:
The window treatments for the blackout windows: curtains have been installed, JG to put up a temporary light to determine how to proceed with permanent fixtures but will likely proceed with porcelain socket.=. This item will remain open until Mock-up of Window Blackout detail is complete: there is no lighting behind the windows AS YET due to absence of any lighting plan, RCP, energy calculations etc.

Per JG, we can add the lights at a later date because we do not need the attic windows illuminated right away and once we get the approval we can proceed

3.5	39	Masonry	John Gruber **(Trump Ferry Point LLC)**			Open

Previous Meeting Minutes:
05/16/2018:
Bluestone Patio:
Exterior Landscape, siding grading, seams of the bluestone needs to get cut and ground down.
MC does not like the bluestone installation because of the irregular, thickness of the seams and surfaces, etc.; this couldn't be helped because of the nature of the source from which the stone was quarried. Seams need to be sawed down.
Masons to cut the thickness of the stone down (and hadn't been onsite due to 90% thunderstorms predicted).

3.6	39	Carpentry				Open

Description:
Window Trim detail: The reveal is approved, mockup was poor, lack of consistency on the trim dimensions look odd (1x4 all the way around and then a stool with the 1x2 and 1x6). The TO should provide a trim detail. Carpenters need to tighten up their miters.

Description:
Sprinkler and Duct are the only trades that need to be working overtime/making use of extended hours HVAC equipment to be delivered to site before 5/18/2018. Bentzi to do layout when equipment,
Regarding the hatch above the mezzanine, since this is not a coordinated design by the engineers, will need to be laid out on the mezzanine and lasered up to determine locations of mechanical equipment on roof.
Kitchen equipment can be delivered, preformed metal curbs to sit on EPDM
Hatch in Proshop (JCS doesn't have detail for this, how does TO want this done? Previously discussed option of not doing the roof hatch and cutting the roof as needed if we need to get equipment out. Need to cut a 4x5 hole to get the equipment in, so the same hole would serve to remove the equipment as needed later on, but this would also result in an enormous hole in the ceiling and they do not make 5x5 access panels that are attractive for this purpose.
Perhaps JCS can fabricate a custom access panel for the oversized hatch door?

Previous Meeting Minutes:
05/16/2018: *(None)*

Schedule

No	Meeting Origin	Title	Assignment	Due Date	Priority	Status
6.1	9	For Construction Drawings	Ron Rainone **(Hart Howerton)**			Open
	Previous Meeting Minutes: **05/16/2018:** *(None)*					
6.2	1	Two Week Look Ahead	Justin Shaw **(JCS Construction Group, Inc.)**			Open
	Description: Review two week look ahead.					
	Previous Meeting Minutes: **05/16/2018:** Sam Tell: Stainless Steel Fab, Refrigeration Electricians Ductwork Roofer: Shingling, Flashing Carpenters: Trim in grill/bar room, Taping Painting, framing for Proshop diffusers, closing up walls, back door trim Masonry: Belgium Block/Bluestone					
6.3	26	Schedule Delay	John Gruber **(Trump Ferry Point LLC)**, Giavona Sullivan **(The Trump Organization)**	02/ 01/ 2018	High	On Hold
	Previous Meeting Minutes: **05/16/2018:** Per the AOR, this is a 16 to 18 month project. Sam Tell: The stainless custom fabrication will be delivered Wednesday May 23rd 2018. There are critical path open items in TO's court that must be resolved, Hard to deliver a hardline schedule if we cant identify our sprinkler system.					

JCS Construction Group, Inc.

JCS Construction Group Inc

Printed on Tue May 22, 2018 at 01:54 pm EDT

Job #: 16-031 Trump Golf Links at Ferry Point
500 Hutchinson River Parkway
Bronx, New York 10465

RFI LOG

#	Subject	Status	Responsible Contractor	Received From	Assignee	Date Initiated	RFI Manager	Due Date	Closed Date	Ball In Court	Location	Schedule Impact	Cost Code	Cost Impact
75	Trump Links Gas Usage	Open	A&M Warshaw Plumb...	Bruno, Cristine (A&M Warshaw Plumbing & Heating)	Rainone, Ron (Har...	02/26/2018	Fiona Rooney	03/01/2018		Rooney, Fiona (JC...				
72	electric RFI	Open	Linphill Electric...	Perez, Eddie (Linphill Electrical Contractors)	Gruber, John (Tru...	02/21/2018	Fiona Rooney	02/24/2018		Rooney, Fiona (JC...		Yes (Unknown)		
59	Missing Beam for Trusses	Open	French & Parrello...	None	Rainone, Ron (Har...	01/10/2018	Fiona Rooney	01/13/2018		Rooney, Fiona (JC...	At grid line F11	5 days		Yes (Unknown)
3	Door Hardware	Open	JCS Construction ...	Shaw, Justin (JCS Construction Group, Inc.)	Pusser, Brittany ...	05/08/2017	Justin Shaw	05/11/2017		Shaw, Justin (JCS...				

APPENDIX N

Hampton-Clarke Project No. 8081617 Report dated September 14, 2018

Hampton-Clarke
Analytical & Field Services

175 ROUTE 46 WEST, UNIT D · FAIRFIELD, NJ 07004
2 MADISON ROAD, FAIRFIELD, NJ 07004
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: Trump Links

Client PO: Not Available

Report To: Maser Consulting
50 Chestnut Ridge Rd.
Suite 101
Montvale, NJ 07645

Attn: Dave Keil

Received Date: 8/16/2018

Report Date: 9/14/2018

Deliverables: NYDOH-R

Lab ID: AD05999

Lab Project No: 8081617

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

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Robin Cousineau - Quality Assurance Director OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

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8081617_SUB.pdf

Sample Summary

Client: Maser Consulting
Project: Trump Links

HC Project #: 8081617

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD05999-001	SS-1	Soil	8/15/2018	8/16/2018
AD05999-002	SS-2	Soil	8/15/2018	8/16/2018

HC Case Narrative

Client: Maser Consulting
Project: Trump Links

HC Project: 8081617

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

Methylene chloride was recovered in sample AD05999-001 due to possible laboratory contamination.

The Method Blank Spike for batch 70991 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The Matrix Spike and Matrix Spike Duplicate for batch 70991 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

TCLP Volatile Organic Analysis:

The Method Blank Spike for batch 70993 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and Matrix Spike Duplicate for batch 70993 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

The Method Blank Spike for batch 69957 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and Matrix Spike Duplicate for batch 69957 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

PCB Analysis:

Data conforms to method requirements.

Pesticide Analysis:

Data conforms to method requirements.

Herbicide Analysis:

Data conforms to method requirements.

Metals Analysis:

The Matrix Spike and Matrix Spike Duplicate for batches 70604 and 70605 had recoveries outside QC limits. Please refer to the applicable Form 5/7 for the recoveries.

The RPD between the QC sample and the Method Replicate had recoveries outside QC limits in batch 70604. Please refer to the applicable Form 6/9 for the recoveries.

The serial dilution for batches 70604 and 70605 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

TCLP Metals Analysis:

Data conforms to method requirements.

Wet Chemistry Analysis:

Data conforms to method requirements.

Subcontracted Analysis:

Please refer to attached subcontracted laboratory report. Sample AD05999-001 was submitted to Pace Analytical for TCDD Scan (1613) analysis and PCDD/PCDF (8290) analysis.

Please refer to attached subcontracted laboratory report. Sample AD05999-001 was submitted to TestAmerica for Parathion (8141) analysis.

Robin Cousineau Quality Assurance Director	Or	Jean Revolus Laboratory Director	9/17/2018 Date

HC Executive Summary

Client: Maser Consulting

HC Project #: 8081617

Project: Trump Links

Lab#: AD05999-001 **Sample ID: SS-1**

Analyte	Units	RL	Result	Analytical Method
Aluminum	mg/kg	210	610	EPA 6010D
Calcium	mg/kg	1100	1100	EPA 6010D
Iron	mg/kg	210	1400	EPA 6010D
Magnesium	mg/kg	530	730	EPA 6010D
Manganese	mg/kg	11	18	EPA 6010D
Arsenic	mg/kg	0.21	0.39	EPA 6020B
Methylene chloride	mg/kg	0.0046	0.0053	EPA 8260C

NOTE: Soil Results are reported to Dry Weigh

HC Report of Analysis

Client: Maser Consulting
Project: Trump Links

HC Project #: 8081617

Sample ID: SS-1
Lab#: AD05999-001
Matrix: Soil

Collection Date: 8/15/2018
Receipt Date: 8/16/2018

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		95

2,3,7,8-TCDD Scan

Analyte	DF	Units	RL	Result
2,3,7,8-TCDD	1	ng/kg	0.92	ND

Chlorinated Herbicides 8151

Analyte	DF	Units	RL	Result
2,4,5-T	1	mg/kg	0.011	ND
2,4-D	1	mg/kg	0.011	ND
Silvex	1	mg/kg	0.011	ND

Cyanide (Soil/Waste) 9012B

Analyte	DF	Units	RL	Result
Cyanide	1	mg/kg	0.25	ND

Mercury (Soil/Waste) 7471B

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.088	ND

Mercury (TCLP) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	mg/l	0.00050	ND

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
a-Chlordane	1	mg/kg	0.0053	ND
Aldrin	1	mg/kg	0.0053	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane (Technical)	1	mg/kg	0.026	ND
Chlordane (Total)	1	mg/kg	0.0053	ND
delta-BHC	1	mg/kg	0.0053	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0053	ND
Endosulfan II	1	mg/kg	0.0053	ND
Endosulfan Sulfate	1	mg/kg	0.0053	ND
Endrin	1	mg/kg	0.0053	ND
Endrin Aldehyde	1	mg/kg	0.0053	ND
Endrin Ketone	1	mg/kg	0.0053	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0053	ND
Heptachlor Epoxide	1	mg/kg	0.0053	ND
Methoxychlor	1	mg/kg	0.0053	ND
p,p'-DDD	1	mg/kg	0.0026	ND
p,p'-DDE	1	mg/kg	0.0026	ND
p,p'-DDT	1	mg/kg	0.0026	ND
Toxaphene	1	mg/kg	0.026	ND
y-Chlordane	1	mg/kg	0.0053	ND

Sample ID: SS-1
Lab#: AD05999-001
Matrix: Soil

Collection Date: 8/15/2018
Receipt Date: 8/16/2018

Organophosphorous Pesticides 8141

Analyte	DF	Units	RL	Result
Parathion	1	ug/kg	5.2	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.026	ND
Aroclor-1016	1	mg/kg	0.026	ND
Aroclor-1221	1	mg/kg	0.026	ND
Aroclor-1232	1	mg/kg	0.026	ND
Aroclor-1242	1	mg/kg	0.026	ND
Aroclor-1248	1	mg/kg	0.026	ND
Aroclor-1254	1	mg/kg	0.026	ND
Aroclor-1260	1	mg/kg	0.026	ND
Aroclor-1262	1	mg/kg	0.026	ND
Aroclor-1268	1	mg/kg	0.026	ND

PCDD & PCDF (8290)

Analyte	DF	Units	RL	Result
PCDD & PCDF	1	ng/kg	0.92	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
2,4,5-Trichlorophenol	1	mg/kg	0.035	ND
2,4-Dichlorophenol	1	mg/kg	0.0088	ND
2,4-Dinitrophenol	1	mg/kg	0.11	ND
2,6-Dinitrotoluene	1	mg/kg	0.035	ND
2-Chlorophenol	1	mg/kg	0.035	ND
2-Methylnaphthalene	1	mg/kg	0.035	ND
2-Methylphenol	1	mg/kg	0.0088	ND
2-Nitroaniline	1	mg/kg	0.035	ND
2-Nitrophenol	1	mg/kg	0.035	ND
3&4-Methylphenol	1	mg/kg	0.0088	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.035	ND
3-Nitroaniline	1	mg/kg	0.035	ND
4-Chloro-3-methylphenol	1	mg/kg	0.035	ND
4-Chloroaniline	1	mg/kg	0.0088	ND
4-Nitrophenol	1	mg/kg	0.035	ND
Acenaphthene	1	mg/kg	0.035	ND
Acenaphthylene	1	mg/kg	0.035	ND
Aniline	1	mg/kg	0.0088	ND
Anthracene	1	mg/kg	0.035	ND
Benzo[a]anthracene	1	mg/kg	0.035	ND
Benzo[a]pyrene	1	mg/kg	0.035	ND
Benzo[b]fluoranthene	1	mg/kg	0.035	ND
Benzo[g,h,i]perylene	1	mg/kg	0.035	ND
Benzo[k]fluoranthene	1	mg/kg	0.035	ND
Benzoic acid	1	mg/kg	0.18	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.035	ND
Butylbenzylphthalate	1	mg/kg	0.035	ND
Chrysene	1	mg/kg	0.035	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.035	ND
Dibenzofuran	1	mg/kg	0.0088	ND
Diethylphthalate	1	mg/kg	0.035	ND
Dimethylphthalate	1	mg/kg	0.035	ND
Di-n-butylphthalate	1	mg/kg	0.0088	ND
Di-n-octylphthalate	1	mg/kg	0.035	ND

Sample ID: SS-1
Lab#: AD05999-001
Matrix: Soil

Collection Date: 8/15/2018
Receipt Date: 8/16/2018

Fluoranthene	1	mg/kg	0.035	ND
Fluorene	1	mg/kg	0.035	ND
Hexachlorobenzene	1	mg/kg	0.035	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.035	ND
Isophorone	1	mg/kg	0.035	ND
Naphthalene	1	mg/kg	0.0088	ND
Nitrobenzene	1	mg/kg	0.035	ND
Pentachlorophenol	1	mg/kg	0.075	ND
Phenanthrene	1	mg/kg	0.035	ND
Phenol	1	mg/kg	0.035	ND
Pyrene	1	mg/kg	0.035	ND

Sulfur Content ASTM D1552

Analyte	DF	Units	RL	Result
Sulfur Content	1	%	0.15	ND

TAL Metals 6010D

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**210**	**610**
Barium	1	mg/kg	11	ND
Calcium	**1**	**mg/kg**	**1100**	**1100**
Chromium	1	mg/kg	5.3	ND
Cobalt	1	mg/kg	2.6	ND
Copper	1	mg/kg	5.3	ND
Iron	**1**	**mg/kg**	**210**	**1400**
Lead	1	mg/kg	5.3	ND
Magnesium	**1**	**mg/kg**	**530**	**730**
Manganese	**1**	**mg/kg**	**11**	**18**
Nickel	1	mg/kg	5.3	ND
Potassium	1	mg/kg	530	ND
Sodium	1	mg/kg	260	ND
Vanadium	1	mg/kg	11	ND
Zinc	1	mg/kg	11	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.84	ND
Arsenic	**1**	**mg/kg**	**0.21**	**0.39**
Beryllium	1	mg/kg	0.21	ND
Cadmium	1	mg/kg	0.42	ND
Selenium	1	mg/kg	2.1	ND
Silver	1	mg/kg	0.21	ND
Thallium	1	mg/kg	0.42	ND

TCLP Metals 6010D

Analyte	DF	Units	RL	Result
Arsenic	1	mg/l	0.10	ND
Barium	1	mg/l	0.25	ND
Cadmium	1	mg/l	0.050	ND
Chromium	1	mg/l	0.10	ND
Lead	1	mg/l	0.050	ND
Selenium	1	mg/l	0.10	ND
Silver	1	mg/l	0.050	ND

TCLP Volatiles 8260

Analyte	DF	Units	RL	Result
1,1-Dichloroethene	1	mg/l	0.0010	ND
1,2-Dichloroethane	1	mg/l	0.00050	ND

Sample ID: SS-1
Lab#: AD05999-001
Matrix: Soil

Collection Date: 8/15/2018
Receipt Date: 8/16/2018

1,4-Dichlorobenzene	1	mg/l	0.0010	ND
2-Butanone	1	mg/l	0.0010	ND
Benzene	1	mg/l	0.00050	ND
Carbon tetrachloride	1	mg/l	0.0010	ND
Chlorobenzene	1	mg/l	0.0010	ND
Chloroform	1	mg/l	0.0010	ND
Tetrachloroethene	1	mg/l	0.0010	ND
Trichloroethene	1	mg/l	0.0010	ND
Vinyl chloride	1	mg/l	0.0010	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	2.18	mg/kg	0.0046	ND
1,1,2,2-Tetrachloroethane	2.18	mg/kg	0.0046	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	2.18	mg/kg	0.0046	ND
1,1-Dichloroethane	2.18	mg/kg	0.0046	ND
1,1-Dichloroethene	2.18	mg/kg	0.0046	ND
1,2,3-Trichloropropane	2.18	mg/kg	0.0046	ND
1,2,4-Trichlorobenzene	2.18	mg/kg	0.0046	ND
1,2-Dichlorobenzene	2.18	mg/kg	0.0046	ND
1,2-Dichloroethane	2.18	mg/kg	0.0046	ND
1,3-Dichlorobenzene	2.18	mg/kg	0.0046	ND
1,3-Dichloropropane	2.18	mg/kg	0.0046	ND
1,4-Dichlorobenzene	2.18	mg/kg	0.0046	ND
2,2-Dichloropropane	2.18	mg/kg	0.0046	ND
2-Butanone	2.18	mg/kg	0.0046	ND
4-Methyl-2-pentanone	2.18	mg/kg	0.0046	ND
Acetone	2.18	mg/kg	0.023	ND
Benzene	2.18	mg/kg	0.0023	ND
Carbon disulfide	2.18	mg/kg	0.0046	ND
Carbon tetrachloride	2.18	mg/kg	0.0046	ND
Chlorobenzene	2.18	mg/kg	0.0046	ND
Chloroethane	2.18	mg/kg	0.0046	ND
Chloroform	2.18	mg/kg	0.0046	ND
cis-1,2-Dichloroethene	2.18	mg/kg	0.0046	ND
cis-1,3-Dichloropropene	2.18	mg/kg	0.0046	ND
Dibromochloromethane	2.18	mg/kg	0.0046	ND
Ethylbenzene	2.18	mg/kg	0.0023	ND
m&p-Xylenes	2.18	mg/kg	0.0023	ND
Methylene chloride	**2.18**	**mg/kg**	**0.0046**	**0.0053**
o-Xylene	2.18	mg/kg	0.0023	ND
Tetrachloroethene	2.18	mg/kg	0.0046	ND
Toluene	2.18	mg/kg	0.0023	ND
Trichloroethene	2.18	mg/kg	0.0046	ND
Vinyl chloride	2.18	mg/kg	0.0046	ND
Xylenes (Total)	2.18	mg/kg	0.0023	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

MDL = Method Detection Limit

RL* = Reporting Limit

ND = Not Detected

RT = Retention Time

NA = Not Applicable

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Maser Consulting

Project: Trump Links

HC Project #: 8081617

Lab#: AD05999-001 **Sample ID:** SS-1

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	8/17/18 00:00	jessica
2,3,7,8-TCDD Scan	EPA 1613			EPA 1613	8/25/18 00:00	Pace Analytical
Chlorinated Herbicides 8151		08/17/18 06:30	jkr	EPA 8151A	8/20/18 13:40	MLC/MS/ZM
Cyanide (Soil/Waste) 9012B		08/17/18	jessica	EPA 9012B	8/17/18 12:01	JMP
Mercury (Soil/Waste) 7471B	EPA 7471B	08/21/18 10:45	aadewusi	EPA 7471B	8/23/18 16:37	CJA
Mercury (TCLP) 7470A	EPA 7470A	08/21/18 10:00	BAdeola	EPA 7470A	8/23/18 11:21	CJA
Organochlorine Pesticides 8081	3510C/3550C	08/23/18 06:30	jkr	EPA 8081B	8/24/18 05:45	MS/MLC/ZM
Organophosphorous Pesticides 8141		08/22/18 11:30		EPA 8141	8/23/18 07:30	TestAmerica
PCB 8082	3510C/3550C	08/23/18 06:30	jkr	EPA 8082A	8/23/18 16:39	MS/ZM/MLC
PCDD & PCDF (8290)				EPA 8290	8/25/18 00:00	Pace Analytical
Semivolatile Organics (no search) 8270	3510C/3550C	08/22/18 04:23	jprevilon	EPA 8270D	8/22/18 14:49	AH/JB
Sulfur Content ASTM D1552		08/23/18	dp/jw	ASTM D-1552	8/23/18 11:48	dp/jw
TAL Metals 6010D	3005&10/3050	08/21/18 10:45	aadewusi	EPA 6010D	8/24/18 07:35	OA
TAL Metals 6010D	3005&10/3050	08/21/18 10:45	aadewusi	EPA 6010D	8/24/18 02:05	OA
TAL Metals 6020B	3005&10/3050	08/21/18 10:45	aadewusi	EPA 6020B	8/24/18 01:20	SRB
TCLP Metals 6010D	3005&10/3050	08/21/18 10:00	BAdeola	EPA 6010D	8/21/18 20:42	OA
TCLP Metals Extraction 1311	EPA 1311	08/20/18 16:40	Ramos		8/21/18 11:32	Ramos
TCLP Volatiles 8260	EPA 5030C			EPA 8260C	8/22/18 16:27	WP
TCLP Zero Headspace Extraction	EPA 1311	08/21/18 00:43	jprevilon			
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	8/22/18 07:45	WP

Chain of Custody

8081617 0012

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 8081617

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%)*	Results + QC (Waste)	Excel Reg. NJ/NY PA
2 Business Days (75%)*	Reduced	EnviroData
3 Business Days (50%)*	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%)*	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Maser Consultants
Address: 50 Chestnut Ridge Road, Montvale, NJ
1b) Email/Cell/Fax/Ph: (201) 939-2515
1c) Send Invoice to: D. Keik
1d) Send Report to: D. Keik

Project Information

2a) Project: Thumpline Farm Air Rapid - Mahwah, NJ
2b) Project Mgr: D. Keik
2c) Project Location (City/State): 151 South Street, Mahwah, NJ
2d) Quote/PO # (If Applicable):

FOR LAB USE ONLY ↓

Batch # A005999

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water, S - Soil, A - Air
GW - Ground Water, SL - Sludge
WW - Waste Water, OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Composite (C)	Grab (G)	VOC	8260 SOILS	8260 TCLP	BNA, PAHs, HERB	PCB	TAL METAL + Co	TCLP METAL, S	2,3,7,8 TCDD	PCDF (1A3)	OP PEST PARATHION DIMETHOATE	8) # of Bottles None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other: Terra Core	9) Comments
-001	SS-1	S	8/15/18	1410		X	X	X	X	X	X	X	X	X	X	X	5							3	
																								3	
-002	SS-2	S	8/15/18	1415													5							3	HOLD

10) Relinquished by:	Accepted by:	Date	Time
[signature]	[signature]	8-16-18	11:58
[signature]	[signature]	8-16-18	12:30

11) Sampler (print name): Date:

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270D SIM)
- [ ] VOC (8260C SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.3°

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD05999

Entered By: Frantz
Date Entered 8/16/2018 1:07:00 PM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	No	Are the COC seals intact?
4	T0056	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 3.3
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify
14	NA	Corrective actions (Specify item number and corrective action taken).

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD05999-001	08/16/18 12:55	FRAN	0	M	Received
AD05999-001	08/16/18 13:07	FRAN	0	M	Login
AD05999-001	08/16/18 13:22	F19	1	A	NONE
AD05999-001	08/21/18 19:59	WP	1	A	VOA
AD05999-001	08/16/18 13:22	F19	2	A	NONE
AD05999-001	08/16/18 13:22	R21	3	A	NONE
AD05999-001	08/16/18 19:16	WP	3	A	VOA
AD05999-001	08/16/18 20:31	R31	3	A	NONE
AD05999-001	08/16/18 13:14	R12	4	A	NONE
AD05999-001	08/16/18 13:14	R12	5	A	NONE
AD05999-001	08/16/18 13:14	R12	6	A	NONE
AD05999-001	08/16/18 23:09	PA	6	A	mix
AD05999-001	08/16/18 23:09	R12	6	A	NONE
AD05999-001	08/17/18 06:07	JKR	6	A	HERB
AD05999-001	08/17/18 07:08	JMP	6	A	solids
AD05999-001	08/17/18 08:28	JMP	6	A	cn
AD05999-001	08/17/18 11:12	R12	6	A	NONE
AD05999-001	08/20/18 16:10	RAMO	6	A	tclp
AD05999-001	08/20/18 16:11	RAMO	6	A	r12
AD05999-001	08/20/18 23:51	R12	6	A	NONE
AD05999-001	08/20/18 23:51	JP	6	A	tclp-zhe
AD05999-001	08/21/18 09:40	AM	6	M	TDSI/HG
AD05999-001	08/21/18 11:44	R12	6	A	NONE
AD05999-001	08/22/18 04:23	JP	6	A	bna
AD05999-001	08/22/18 04:24	R12	6	A	NONE
AD05999-001	08/22/18 16:31	DP	6	A	SULFUR
AD05999-001	08/22/18 18:00	R12	6	A	NONE
AD05999-001	08/23/18 06:21	JKR	6	A	p/p
AD05999-001	08/23/18 08:23	R12	6	M	NONE
AD05999-001	08/16/18 13:14	R12	7	A	NONE
AD05999-001	08/16/18 13:14	R12	8	A	NONE
AD05999-002	08/16/18 12:55	FRAN	0	M	Received
AD05999-002	08/16/18 13:07	FRAN	0	M	Login
AD05999-002	08/16/18 13:14	R12	1	A	NONE
AD05999-002	08/16/18 13:14	R12	2	A	NONE
AD05999-002	08/16/18 13:14	R12	3	A	NONE
AD05999-002	08/16/18 13:14	R12	4	A	NONE
AD05999-002	08/16/18 13:22	F19	5	A	NONE
AD05999-002	08/16/18 13:22	R21	6	A	NONE
AD05999-002	08/16/18 19:16	WP	6	A	VOA
AD05999-002	08/16/18 20:31	R31	6	A	NONE
AD05999-002	08/16/18 13:22	F19	7	A	NONE
AD05999-002	08/21/18 19:59	WP	7	A	VOA
AD05999-002	08/16/18 13:14	R12	8	A	NONE

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD05999-001
Client Id: SS-1
Data File: 8M20100.D
Analysis Date: 08/22/18 07:45
Date Rec/Extracted: 08/16/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 2.29g
Final Vol: NA
Dilution: 2.18
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0046	U	75-15-0	Carbon Disulfide	0.0046	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0046	U	56-23-5	Carbon Tetrachloride	0.0046	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0046	U	108-90-7	Chlorobenzene	0.0046	U
75-34-3	1,1-Dichloroethane	0.0046	U	75-00-3	Chloroethane	0.0046	U
75-35-4	1,1-Dichloroethene	0.0046	U	67-66-3	Chloroform	0.0046	U
96-18-4	1,2,3-Trichloropropane	0.0046	U	156-59-2	cis-1,2-Dichloroethene	0.0046	U
120-82-1	1,2,4-Trichlorobenzene	0.0046	U	10061-01-5	cis-1,3-Dichloropropene	0.0046	U
95-50-1	1,2-Dichlorobenzene	0.0046	U	124-48-1	Dibromochloromethane	0.0046	U
107-06-2	1,2-Dichloroethane	0.0046	U	100-41-4	Ethylbenzene	0.0023	U
541-73-1	1,3-Dichlorobenzene	0.0046	U	79601-23-1	m&p-Xylenes	0.0023	U
142-28-9	1,3-Dichloropropane	0.0046	U	**75-09-2**	**Methylene Chloride**	**0.0046**	**0.0053**
106-46-7	1,4-Dichlorobenzene	0.0046	U	95-47-6	o-Xylene	0.0023	U
594-20-7	2,2-Dichloropropane	0.0046	U	127-18-4	Tetrachloroethene	0.0046	U
78-93-3	2-Butanone	0.0046	U	108-88-3	Toluene	0.0023	U
108-10-1	4-Methyl-2-Pentanone	0.0046	U	79-01-6	Trichloroethene	0.0046	U
67-64-1	Acetone	0.023	U	75-01-4	Vinyl Chloride	0.0046	U
71-43-2	Benzene	0.0023	U	1330-20-7	Xylenes (Total)	0.0023	U

Worksheet #: 477187

Total Target Concentration 0.0053

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD05999-001 Operator : WP Qt Meth : 8M_S0726.M
Data File: 8M20100.D Sam Mult : 1 Vial# : 98 Qt On : 08/22/18 13:18
Acq On : 08/22/18 07:45 Misc : S,5G!1 Qt Upd On: 07/27/18 11:49

Data Path : G:\GcMsData\2018\GCMS_8\Data\0822-18\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.111	96	456453	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.761	117	427439	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.021	152	224276	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.700	111	124387	31.53	ug/l	0.00
Spiked Amount 30.000			Recovery = 105.10%			
39) 1,2-Dichloroethane-d4	4.915	67	65120	28.89	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.30%			
66) Toluene-d8	5.983	98	490372	29.31	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.70%			
76) Bromofluorobenzene	7.381	174	167316	31.32	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.40%			
Target Compounds						Qvalue
15) Methylene Chloride	3.362	84	12923	2.2960	ug/l	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

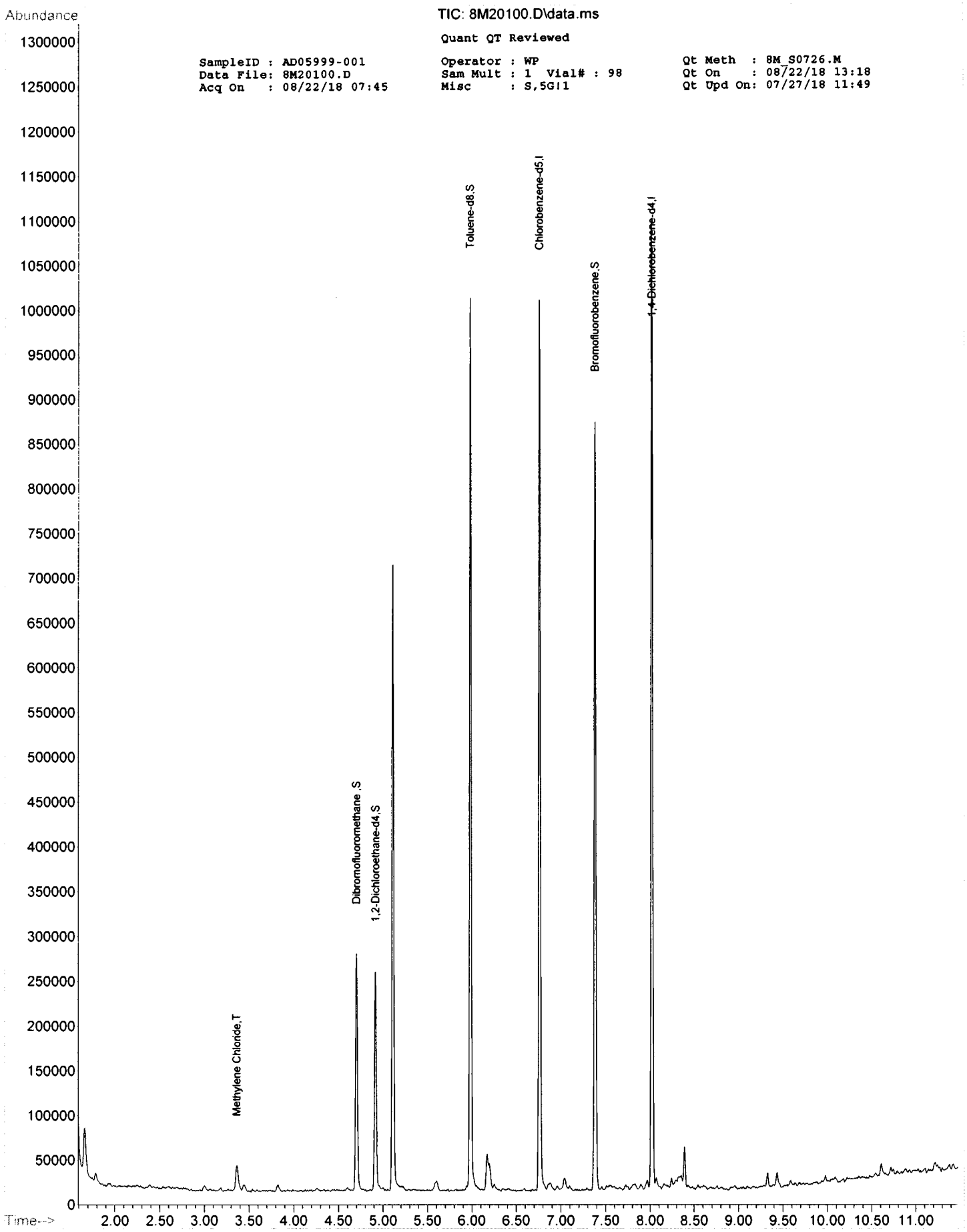
Abundance
TIC: 8M20100.D\data.ms
Quant QT Reviewed
SampleID : AD05999-001
Data File: 8M20100.D
Acq On : 08/22/18 07:45
Operator : WP
Sam Mult : 1 Vial# : 98
Misc : S,5G!1
Qt Meth : 8M_S0726.M
Qt On : 08/22/18 13:18
Qt Upd On: 07/27/18 11:49
Methylene Chloride,T
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 8M20083.D
Analysis Date: 08/22/18 01:52
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	75-15-0	Carbon Disulfide	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	75-00-3	Chloroethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	67-66-3	Chloroform	0.0020	U
96-18-4	1,2,3-Trichloropropane	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
107-06-2	1,2-Dichloroethane	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79601-23-1	m&p-Xylenes	0.0010	U
142-28-9	1,3-Dichloropropane	0.0020	U	75-09-2	Methylene Chloride	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	95-47-6	o-Xylene	0.0010	U
594-20-7	2,2-Dichloropropane	0.0020	U	127-18-4	Tetrachloroethene	0.0020	U
78-93-3	2-Butanone	0.0020	U	108-88-3	Toluene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	79-01-6	Trichloroethene	0.0020	U
67-64-1	Acetone	0.010	U	75-01-4	Vinyl Chloride	0.0020	U
71-43-2	Benzene	0.0010	U				

Worksheet #: 477187

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT/LSC Reviewed) **8081617 0020**

SampleID : DAILY BLANK
Data File: 8M20083.D
Acq On : 08/22/18 01:52

Operator : WP
Sam Mult : 1 Vial# : 98
Misc : S,5G

Qt Meth : 8M_S0726.M
Qt On : 08/22/18 13:17
Qt Upd On: 07/27/18 11:49

Data Path : G:\GcMsData\2018\GCMS_8\Data\0822-18\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.111	96	581280	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.761	117	542609	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.021	152	287567	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.700	111	150981	30.05	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.17%			
39) 1,2-Dichloroethane-d4	4.915	67	76252	26.56	ug/l	0.00
Spiked Amount 30.000			Recovery = 88.53%			
66) Toluene-d8	5.983	98	620343	29.21	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.37%			
76) Bromofluorobenzene	7.381	174	214709	31.34	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.47%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

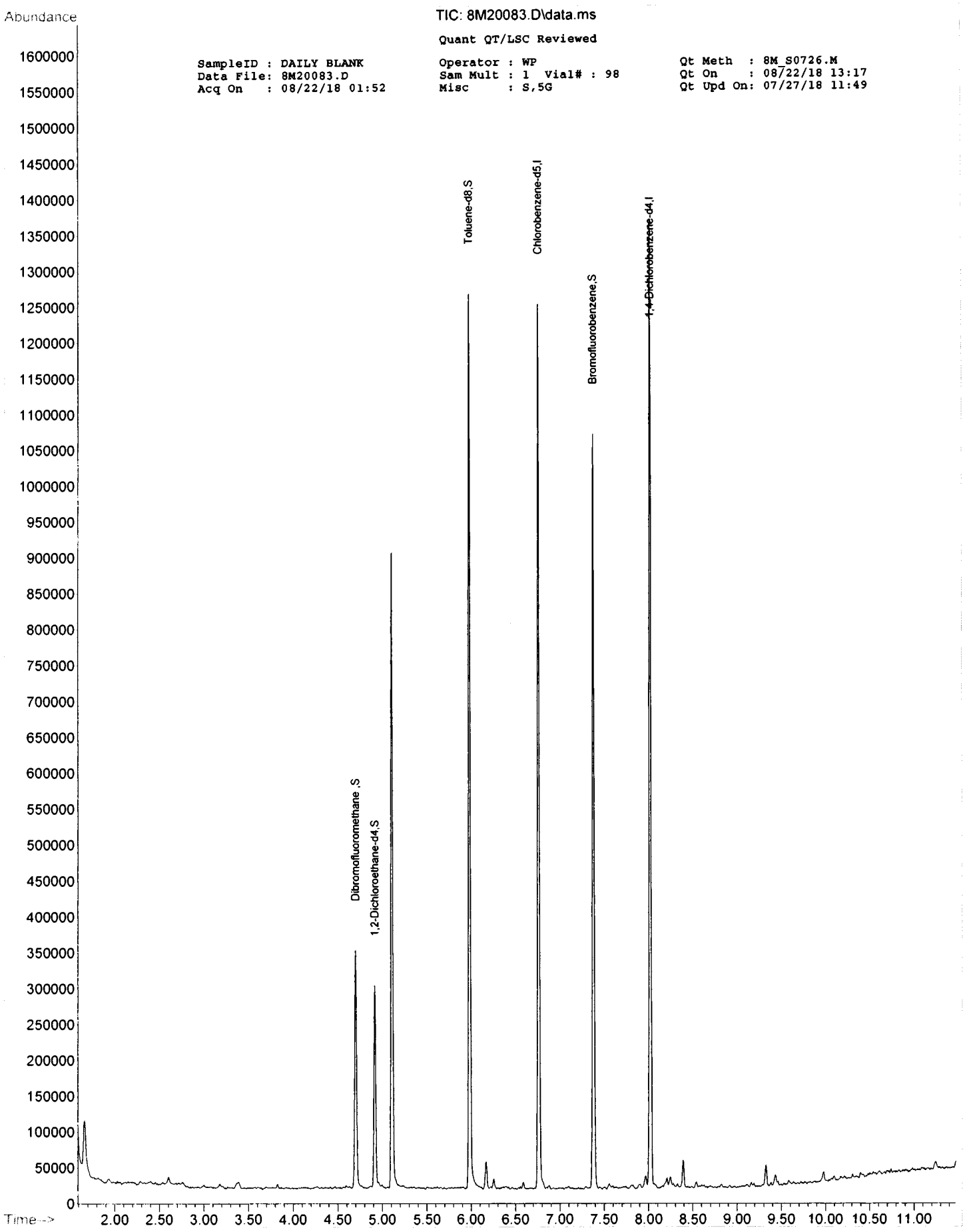
Abundance
TIC: 8M20083.D\data.ms
Quant QT/LSC Reviewed
SampleID : DAILY BLANK
Data File: 8M20083.D
Acq On : 08/22/18 01:52
Operator : WP
Sam Mult : 1 Vial# : 98
Misc : S,5G
Qt Meth : 8M_S0726.M
Qt On : 08/22/18 13:17
Qt Upd On: 07/27/18 11:49
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8260C

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8M20083.D	DAILY BLANK	S	08/22/18 01:52	1		100	89	97	104		
8M20100.D	AD05999-001	S	08/22/18 07:45	1		105	96	98	104		
8M20084.D	AD06068-002	S	08/22/18 02:13	1		103	95	98	106		
8M20087.D	MBS70991	S	08/22/18 03:15	1		104	96	100	103		
8M20088.D	AD06068-002(MS)	S	08/22/18 03:36	1		100	91	100	104		
8M20089.D	AD06068-002(MSD)	S	08/22/18 03:57	1		104	92	100	104		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260C

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	63-140
S2=1,2-Dichloroethane-d4	30	63-143
S3=Toluene-d8	30	68-122
S4=Bromofluorobenzene	30	64-129

Form3
Recovery Data Laboratory Limits
QC Batch: MBS70991

Data File	Sample ID:	Analysis Date
Spike or Dup: 8M20087.D	MBS70991	8/22/2018 3:15:00 AM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	76.9615	0	50	154*	20	130
Dichlorodifluoromethane	1	27.4529	0	50	55	20	130
Chloromethane	1	37.9321	0	50	76	20	130
Bromomethane	1	50.8322	0	50	102	20	130
Vinyl Chloride	1	44.4689	0	50	89	20	130
Chloroethane	1	49.9237	0	50	100	20	130
Trichlorofluoromethane	1	47.568	0	50	95	20	130
Ethyl ether	1	45.1077	0	50	90	50	130
Furan	1	41.322	0	50	83	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	61.4754	0	50	123	50	130
Methylene Chloride	1	50.2304	0	50	100	50	130
Acrolein	1	213.075	0	200	107	20	130
Acrylonitrile	1	48.2674	0	50	97	20	130
Iodomethane	1	46.8678	0	50	94	50	130
Acetone	1	207.2282	0	200	104	20	130
Carbon Disulfide	1	43.1451	0	50	86	50	130
t-Butyl Alcohol	1	215.3735	0	200	108	20	130
n-Hexane	1	62.5012	0	50	125	50	130
Di-isopropyl-ether	1	47.7478	0	50	95	50	130
1,1-Dichloroethene	1	43.7357	0	50	87	50	130
Methyl Acetate	1	44.1116	0	50	88	50	130
Methyl-t-butyl ether	1	54.8978	0	50	110	50	130
1,1-Dichloroethane	1	46.3209	0	50	93	50	130
trans-1,2-Dichloroethene	1	49.9898	0	50	100	50	130
Ethyl-t-butyl ether	1	48.5135	0	50	97	50	130
cis-1,2-Dichloroethene	1	47.3622	0	50	95	50	130
Bromochloromethane	1	45.7627	0	50	92	50	130
2,2-Dichloropropane	1	48.0523	0	50	96	50	130
Ethyl acetate	1	46.2276	0	50	92	50	130
1,4-Dioxane	1	2370.052	0	2500	95	50	130
1,1-Dichloropropene	1	47.6335	0	50	95	50	130
Chloroform	1	48.8442	0	50	98	50	130
Cyclohexane	1	46.9564	0	50	94	50	130
1,2-Dichloroethane	1	47.3	0	50	95	50	130
2-Butanone	1	40.8492	0	50	82	20	130
1,1,1-Trichloroethane	1	48.4876	0	50	97	50	130
Carbon Tetrachloride	1	49.2392	0	50	98	50	130
Vinyl Acetate	1	44.3328	0	50	89	50	130
Bromodichloromethane	1	50.3582	0	50	101	50	130
Methylcyclohexane	1	49.5675	0	50	99	50	130
Dibromomethane	1	56.4587	0	50	113	50	130
1,2-Dichloropropane	1	48.3909	0	50	97	50	130
Trichloroethene	1	51.0408	0	50	102	50	130
Benzene	1	49.7673	0	50	100	50	130
tert-Amyl methyl ether	1	51.7294	0	50	103	50	130
Iso-propylacetate	1	46.4086	0	50	93	50	130
Methyl methacrylate	1	46.3444	0	50	93	50	130
Dibromochloromethane	1	52.5871	0	50	105	50	130
2-Chloroethylvinylether	1	51.1047	0	50	102	50	130
cis-1,3-Dichloropropene	1	49.0302	0	50	98	50	130
trans-1,3-Dichloropropene	1	49.0118	0	50	98	50	130
Ethyl methacrylate	1	43.4706	0	50	87	50	130
1,1,2-Trichloroethane	1	51.8441	0	50	104	50	130
1,2-Dibromoethane	1	51.0392	0	50	102	50	130
1,3-Dichloropropane	1	49.3212	0	50	99	50	130
4-Methyl-2-Pentanone	1	44.9309	0	50	90	20	130
2-Hexanone	1	44.7344	0	50	89	20	130
Tetrachloroethene	1	51.9843	0	50	104	50	130
Toluene	1	48.5555	0	50	97	50	130
1,1,1,2-Tetrachloroethane	1	51.6021	0	50	103	50	130
Chlorobenzene	1	50.5313	0	50	101	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS70991

n-Butyl acrylate	1	42.2683	0	50	85	50	130
n-Amyl acetate	1	46.3392	0	50	93	50	130
Bromoform	1	53.5031	0	50	107	20	130
Ethylbenzene	1	48.1418	0	50	96	50	130
1,1,2,2-Tetrachloroethane	1	48.817	0	50	98	50	130
Styrene	1	51.8278	0	50	104	50	130
m&p-Xylenes	1	93.7666	0	100	94	50	130
o-Xylene	1	48.1452	0	50	96	50	130
trans-1,4-Dichloro-2-butene	1	42.7325	0	50	85	20	130
1,3-Dichlorobenzene	1	50.257	0	50	101	50	130
1,4-Dichlorobenzene	1	49.8714	0	50	100	50	130
1,2-Dichlorobenzene	1	50.6428	0	50	101	50	130
Isopropylbenzene	1	51.9369	0	50	104	50	130
Cyclohexanone	1	135.3124	0	250	54	50	130
Camphene	1	50.1343	0	50	100	50	130
1,2,3-Trichloropropane	1	46.5732	0	50	93	50	130
2-Chlorotoluene	1	51.0095	0	50	102	50	130
p-Ethyltoluene	1	49.7328	0	50	99	50	130
4-Chlorotoluene	1	50.3975	0	50	101	50	130
n-Propylbenzene	1	51.3161	0	50	103	50	130
Bromobenzene	1	47.7132	0	50	95	50	130
1,3,5-Trimethylbenzene	1	49.1388	0	50	98	50	130
Butyl methacrylate	1	41.4628	0	50	83	50	130
t-Butylbenzene	1	52.4169	0	50	105	50	130
1,2,4-Trimethylbenzene	1	49.6298	0	50	99	50	130
sec-Butylbenzene	1	54.1206	0	50	108	50	130
4-Isopropyltoluene	1	53.6949	0	50	107	50	130
n-Butylbenzene	1	51.1531	0	50	102	50	130
p-Diethylbenzene	1	52.8101	0	50	106	50	130
1,2,4,5-Tetramethylbenzene	1	53.164	0	50	106	50	130
1,2-Dibromo-3-Chloropropane	1	48.3497	0	50	97	50	130
Camphor	1	494.0095	0	500	99	50	130
Hexachlorobutadiene	1	56.2797	0	50	113	50	130
1,2,4-Trichlorobenzene	1	50.9872	0	50	102	50	130
1,2,3-Trichlorobenzene	1	50.2243	0	50	100	50	130
Naphthalene	1	45.6262	0	50	91	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS70991

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M20088.D	AD06068-002(MS)	8/22/2018 3:36:00 AM
Non Spike(If applicable):	8M20084.D	AD06068-002	8/22/2018 2:13:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	56.9887	0	50	114	20	130
Dichlorodifluoromethane	1	29.3449	0	50	59	20	130
Chloromethane	1	41.8806	0	50	84	20	130
Bromomethane	1	58.6029	0	50	117	20	130
Vinyl Chloride	1	49.2003	0	50	98	20	130
Chloroethane	1	55.2193	0	50	110	20	130
Trichlorofluoromethane	1	51.9224	0	50	104	20	130
Ethyl ether	1	49.5373	0	50	99	50	130
Furan	1	44.8261	0	50	90	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	65.9722	0	50	132*	50	130
Methylene Chloride	1	54.1705	0	50	108	50	130
Acrolein	1	182.3843	0	200	91	20	130
Acrylonitrile	1	50.5578	0	50	101	20	130
Iodomethane	1	52.8838	0	50	106	50	130
Acetone	1	226.7201	0	200	113	20	130
Carbon Disulfide	1	48.0785	0	50	96	50	130
t-Butyl Alcohol	1	237.0333	0	200	119	20	130
n-Hexane	1	66.6697	0	50	133*	50	130
Di-isopropyl-ether	1	51.2061	0	50	102	50	130
1,1-Dichloroethene	1	47.8302	0	50	96	50	130
Methyl Acetate	1	82.3903	0	50	165*	50	130
Methyl-t-butyl ether	1	59.4109	0	50	119	50	130
1,1-Dichloroethane	1	51.5734	0	50	103	50	130
trans-1,2-Dichloroethene	1	54.8616	0	50	110	50	130
Ethyl-t-butyl ether	1	51.6902	0	50	103	50	130
cis-1,2-Dichloroethene	1	49.3658	0	50	99	50	130
Bromochloromethane	1	49.6425	0	50	99	50	130
2,2-Dichloropropane	1	51.9358	0	50	104	50	130
Ethyl acetate	1	19.8675	0	50	40*	50	130
1,4-Dioxane	1	2558.537	0	2500	102	50	130
1,1-Dichloropropene	1	51.9853	0	50	104	50	130
Chloroform	1	52.9946	0	50	106	50	130
Cyclohexane	1	50.7481	0	50	101	50	130
1,2-Dichloroethane	1	51.0174	0	50	102	50	130
2-Butanone	1	48.5254	0	50	97	20	130
1,1,1-Trichloroethane	1	53.1834	0	50	106	50	130
Carbon Tetrachloride	1	54.0378	0	50	108	50	130
Vinyl Acetate	1	31.0428	0	50	62	50	130
Bromodichloromethane	1	56.3104	0	50	113	50	130
Methylcyclohexane	1	53.633	0	50	107	50	130
Dibromomethane	1	61.5686	0	50	123	50	130
1,2-Dichloropropane	1	53.2107	0	50	106	50	130
Trichloroethene	1	57.8309	0	50	116	50	130
Benzene	1	54.7419	0	50	109	50	130
tert-Amyl methyl ether	1	55.6052	0	50	111	50	130
Iso-propylacetate	1	37.4531	0	50	75	50	130
Methyl methacrylate	1	65.6528	0	50	131*	50	130
Dibromochloromethane	1	59.1551	0	50	118	50	130
2-Chloroethylvinylether	1	55.9552	0	50	112	50	130
cis-1,3-Dichloropropene	1	55.1819	0	50	110	50	130
trans-1,3-Dichloropropene	1	54.0948	0	50	108	50	130
Ethyl methacrylate	1	33.5091	0	50	67	50	130
1,1,2-Trichloroethane	1	57.0844	0	50	114	50	130
1,2-Dibromoethane	1	56.3886	0	50	113	50	130
1,3-Dichloropropane	1	55.126	0	50	110	50	130
4-Methyl-2-Pentanone	1	50.0993	0	50	100	20	130
2-Hexanone	1	49.9659	0	50	100	20	130
Tetrachloroethene	1	58.2675	0	50	117	50	130
Toluene	1	53.6774	0	50	107	50	130
1,1,1,2-Tetrachloroethane	1	57.8443	0	50	116	50	130
Chlorobenzene	1	56.2063	0	50	112	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS70991

n-Butyl acrylate	1	19.2672	0	50	39*	50	130
n-Amyl acetate	1	21.3994	0	50	43*	50	130
Bromoform	1	59.1282	0	50	118	20	130
Ethylbenzene	1	53.5893	0	50	107	50	130
1,1,2,2-Tetrachloroethane	1	50.6469	0	50	101	50	130
Styrene	1	57.3114	0	50	115	50	130
m&p-Xylenes	1	104.0683	0	100	104	50	130
o-Xylene	1	53.1828	0	50	106	50	130
trans-1,4-Dichloro-2-butene	1	45.6739	0	50	91	20	130
1,3-Dichlorobenzene	1	55.3176	0	50	111	50	130
1,4-Dichlorobenzene	1	55.2841	0	50	111	50	130
1,2-Dichlorobenzene	1	55.0526	0	50	110	50	130
Isopropylbenzene	1	57.3009	0	50	115	50	130
Cyclohexanone	1	238.1614	0	250	95	50	130
Camphene	1	53.4539	0	50	107	50	130
1,2,3-Trichloropropane	1	51.7972	0	50	104	50	130
2-Chlorotoluene	1	55.866	0	50	112	50	130
p-Ethyltoluene	1	54.3407	0	50	109	50	130
4-Chlorotoluene	1	54.8847	0	50	110	50	130
n-Propylbenzene	1	55.8298	0	50	112	50	130
Bromobenzene	1	52.0821	0	50	104	50	130
1,3,5-Trimethylbenzene	1	53.6035	0	50	107	50	130
Butyl methacrylate	1	33.9985	0	50	68	50	130
t-Butylbenzene	1	56.7766	0	50	114	50	130
1,2,4-Trimethylbenzene	1	53.5593	0	50	107	50	130
sec-Butylbenzene	1	57.9635	0	50	116	50	130
4-Isopropyltoluene	1	58.4368	0	50	117	50	130
n-Butylbenzene	1	55.2672	0	50	111	50	130
p-Diethylbenzene	1	57.416	0	50	115	50	130
1,2,4,5-Tetramethylbenzene	1	57.4098	0	50	115	50	130
1,2-Dibromo-3-Chloropropane	1	56.8676	0	50	114	50	130
Camphor	1	599.5587	0	500	120	50	130
Hexachlorobutadiene	1	60.2011	0	50	120	50	130
1,2,4-Trichlorobenzene	1	54.8222	0	50	110	50	130
1,2,3-Trichlorobenzene	1	53.8702	0	50	108	50	130
Naphthalene	1	50.1948	0	50	100	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS70991

Data File	Sample ID:	Analysis Date
Spike or Dup: 8M20089.D	AD06068-002(MSD)	8/22/2018 3:57:00 AM
Non Spike(If applicable): 8M20084.D	AD06068-002	8/22/2018 2:13:00 AM
Inst Blank(If applicable):		

Method: 8260C Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	58.2636	0	50	117	20	130
Dichlorodifluoromethane	1	29.9739	0	50	60	20	130
Chloromethane	1	42.7818	0	50	86	20	130
Bromomethane	1	58.508	0	50	117	20	130
Vinyl Chloride	1	49.8328	0	50	100	20	130
Chloroethane	1	55.5148	0	50	111	20	130
Trichlorofluoromethane	1	52.859	0	50	106	20	130
Ethyl ether	1	49.7563	0	50	100	50	130
Furan	1	44.9434	0	50	90	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	67.3384	0	50	135*	50	130
Methylene Chloride	1	54.5581	0	50	109	50	130
Acrolein	1	187.3566	0	200	94	20	130
Acrylonitrile	1	52.7185	0	50	105	20	130
Iodomethane	1	54.6758	0	50	109	50	130
Acetone	1	234.7971	0	200	117	20	130
Carbon Disulfide	1	48.9467	0	50	98	50	130
t-Butyl Alcohol	1	242.0818	0	200	121	20	130
n-Hexane	1	71.597	0	50	143*	50	130
Di-isopropyl-ether	1	51.8054	0	50	104	50	130
1,1-Dichloroethene	1	48.1898	0	50	96	50	130
Methyl Acetate	1	81.2909	0	50	163*	50	130
Methyl-t-butyl ether	1	60.6036	0	50	121	50	130
1,1-Dichloroethane	1	52.2435	0	50	104	50	130
trans-1,2-Dichloroethene	1	54.8148	0	50	110	50	130
Ethyl-t-butyl ether	1	53.017	0	50	106	50	130
cis-1,2-Dichloroethene	1	49.6774	0	50	99	50	130
Bromochloromethane	1	50.7596	0	50	102	50	130
2,2-Dichloropropane	1	51.8884	0	50	104	50	130
Ethyl acetate	1	20.7133	0	50	41*	50	130
1,4-Dioxane	1	2657.906	0	2500	106	50	130
1,1-Dichloropropene	1	52.6172	0	50	105	50	130
Chloroform	1	53.712	0	50	107	50	130
Cyclohexane	1	52.0963	0	50	104	50	130
1,2-Dichloroethane	1	50.9194	0	50	102	50	130
2-Butanone	1	48.8575	0	50	98	20	130
1,1,1-Trichloroethane	1	53.6358	0	50	107	50	130
Carbon Tetrachloride	1	54.1957	0	50	108	50	130
Vinyl Acetate	1	31.5629	0	50	63	50	130
Bromodichloromethane	1	55.259	0	50	111	50	130
Methylcyclohexane	1	55.4569	0	50	111	50	130
Dibromomethane	1	62.3189	0	50	125	50	130
1,2-Dichloropropane	1	52.7289	0	50	105	50	130
Trichloroethene	1	58.8387	0	50	118	50	130
Benzene	1	54.9117	0	50	110	50	130
tert-Amyl methyl ether	1	55.948	0	50	112	50	130
Iso-propylacetate	1	38.7684	0	50	78	50	130
Methyl methacrylate	1	66.8482	0	50	134*	50	130
Dibromochloromethane	1	59.7088	0	50	119	50	130
2-Chloroethylvinylether	1	55.9037	0	50	112	50	130
cis-1,3-Dichloropropene	1	55.4169	0	50	111	50	130
trans-1,3-Dichloropropene	1	54.3358	0	50	109	50	130
Ethyl methacrylate	1	34.0164	0	50	68	50	130
1,1,2-Trichloroethane	1	58.3607	0	50	117	50	130
1,2-Dibromoethane	1	56.9333	0	50	114	50	130
1,3-Dichloropropane	1	55.4269	0	50	111	50	130
4-Methyl-2-Pentanone	1	50.7778	0	50	102	20	130
2-Hexanone	1	50.2456	0	50	100	20	130
Tetrachloroethene	1	60.5614	0	50	121	50	130
Toluene	1	54.1547	0	50	108	50	130
1,1,1,2-Tetrachloroethane	1	59.0313	0	50	118	50	130
Chlorobenzene	1	56.7882	0	50	114	50	130

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Form3
Recovery Data Laboratory Limits
QC Batch: MBS70991

n-Butyl acrylate	1	20.4081	0	50	41*	50	130
n-Amyl acetate	1	22.9415	0	50	46*	50	130
Bromoform	1	59.4641	0	50	119	20	130
Ethylbenzene	1	53.6768	0	50	107	50	130
1,1,2,2-Tetrachloroethane	1	51.7182	0	50	103	50	130
Styrene	1	57.1592	0	50	114	50	130
m&p-Xylenes	1	105.6726	0	100	106	50	130
o-Xylene	1	53.4813	0	50	107	50	130
trans-1,4-Dichloro-2-butene	1	46.5813	0	50	93	20	130
1,3-Dichlorobenzene	1	55.9383	0	50	112	50	130
1,4-Dichlorobenzene	1	55.0325	0	50	110	50	130
1,2-Dichlorobenzene	1	55.3585	0	50	111	50	130
Isopropylbenzene	1	58.0502	0	50	116	50	130
Cyclohexanone	1	243.0123	0	250	97	50	130
Camphene	1	55.6087	0	50	111	50	130
1,2,3-Trichloropropane	1	51.9822	0	50	104	50	130
2-Chlorotoluene	1	56.2034	0	50	112	50	130
p-Ethyltoluene	1	54.9377	0	50	110	50	130
4-Chlorotoluene	1	55.2873	0	50	111	50	130
n-Propylbenzene	1	57.0384	0	50	114	50	130
Bromobenzene	1	52.1442	0	50	104	50	130
1,3,5-Trimethylbenzene	1	54.7092	0	50	109	50	130
Butyl methacrylate	1	34.5499	0	50	69	50	130
t-Butylbenzene	1	58.5689	0	50	117	50	130
1,2,4-Trimethylbenzene	1	54.1267	0	50	108	50	130
sec-Butylbenzene	1	59.7959	0	50	120	50	130
4-Isopropyltoluene	1	60.0813	0	50	120	50	130
n-Butylbenzene	1	57.0399	0	50	114	50	130
p-Diethylbenzene	1	59.5518	0	50	119	50	130
1,2,4,5-Tetramethylbenzene	1	59.2938	0	50	119	50	130
1,2-Dibromo-3-Chloropropane	1	58.5065	0	50	117	50	130
Camphor	1	613.6182	0	500	123	50	130
Hexachlorobutadiene	1	61.9501	0	50	124	50	130
1,2,4-Trichlorobenzene	1	55.8948	0	50	112	50	130
1,2,3-Trichlorobenzene	1	54.4538	0	50	109	50	130
Naphthalene	1	51.4899	0	50	103	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: MBS70991

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M20089.D	AD06068-002(MSD)	8/22/2018 3:57:00 AM
Duplicate(If applicable):	8M20088.D	AD06068-002(MS)	8/22/2018 3:36:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	58.2636	56.9887	2.2	30
Dichlorodifluoromethane	1	29.9739	29.3449	2.1	30
Chloromethane	1	42.7818	41.8806	2.1	30
Bromomethane	1	58.508	58.6029	0.16	30
Vinyl Chloride	1	49.8328	49.2003	1.3	40
Chloroethane	1	55.5148	55.2193	0.53	30
Trichlorofluoromethane	1	52.859	51.9224	1.8	30
Ethyl ether	1	49.7563	49.5373	0.44	30
Furan	1	44.9434	44.8261	0.26	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	67.3384	65.9722	2	30
Methylene Chloride	1	54.5581	54.1705	0.71	30
Acrolein	1	187.3566	182.3843	2.7	30
Acrylonitrile	1	52.7185	50.5578	4.2	30
Iodomethane	1	54.6758	52.8838	3.3	30
Acetone	1	234.7971	226.7201	3.5	30
Carbon Disulfide	1	48.9467	48.0785	1.8	30
t-Butyl Alcohol	1	242.0818	237.0333	2.1	30
n-Hexane	1	71.597	66.6697	7.1	30
Di-isopropyl-ether	1	51.8054	51.2061	1.2	30
1,1-Dichloroethene	1	48.1898	47.8302	0.75	40
Methyl Acetate	1	81.2909	82.3903	1.3	30
Methyl-t-butyl ether	1	60.6036	59.4109	2	30
1,1-Dichloroethane	1	52.2435	51.5734	1.3	40
trans-1,2-Dichloroethene	1	54.8148	54.8616	0.09	30
Ethyl-t-butyl ether	1	53.017	51.6902	2.5	30
cis-1,2-Dichloroethene	1	49.6774	49.3658	0.63	30
Bromochloromethane	1	50.7596	49.6425	2.2	30
2,2-Dichloropropane	1	51.8884	51.9358	0.09	30
Ethyl acetate	1	20.7133	19.8675	4.2	30
1,4-Dioxane	1	2657.906	2558.537	3.8	30
1,1-Dichloropropene	1	52.6172	51.9853	1.2	30
Chloroform	1	53.712	52.9946	1.3	40
Cyclohexane	1	52.0963	50.7481	2.6	30
1,2-Dichloroethane	1	50.9194	51.0174	0.19	40
2-Butanone	1	48.8575	48.5254	0.68	40
1,1,1-Trichloroethane	1	53.6358	53.1834	0.85	30
Carbon Tetrachloride	1	54.1957	54.0378	0.29	40
Vinyl Acetate	1	31.5629	31.0428	1.7	30
Bromodichloromethane	1	55.259	56.3104	1.9	30
Methylcyclohexane	1	55.4569	53.633	3.3	30
Dibromomethane	1	62.3189	61.5686	1.2	30
1,2-Dichloropropane	1	52.7289	53.2107	0.91	30
Trichloroethene	1	58.8387	57.8309	1.7	40
Benzene	1	54.9117	54.7419	0.31	40
tert-Amyl methyl ether	1	55.948	55.6052	0.61	30
Iso-propylacetate	1	38.7684	37.4531	3.5	30
Methyl methacrylate	1	66.8482	65.6528	1.8	30
Dibromochloromethane	1	59.7088	59.1551	0.93	30
2-Chloroethylvinylether	1	55.9037	55.9552	0.09	30
cis-1,3-Dichloropropene	1	55.4169	55.1819	0.42	30
trans-1,3-Dichloropropene	1	54.3358	54.0948	0.44	30
Ethyl methacrylate	1	34.0164	33.5091	1.5	30
1,1,2-Trichloroethane	1	58.3607	57.0844	2.2	30
1,2-Dibromoethane	1	56.9333	56.3886	0.96	30
1,3-Dichloropropane	1	55.4269	55.126	0.54	30
4-Methyl-2-Pentanone	1	50.7778	50.0993	1.3	30
2-Hexanone	1	50.2456	49.9659	0.56	30
Tetrachloroethene	1	60.5614	58.2675	3.9	40
Toluene	1	54.1547	53.6774	0.89	40
1,1,1,2-Tetrachloroethane	1	59.0313	57.8443	2	30
Chlorobenzene	1	56.7882	56.2063	1	40
n-Butyl acrylate	1	20.4081	19.2672	5.8	30
n-Amyl acetate	1	22.9415	21.3994	7	30

Form3
RPD Data Laboratory Limits
QC Batch: MBS70991

Bromoform	1	59.4641	59.1282	0.57	30
Ethylbenzene	1	53.6768	53.5893	0.16	30
1,1,2,2-Tetrachloroethane	1	51.7182	50.6469	2.1	30
Styrene	1	57.1592	57.3114	0.27	30
m&p-Xylenes	1	105.6726	104.0683	1.5	30
o-Xylene	1	53.4813	53.1828	0.56	30
trans-1,4-Dichloro-2-butene	1	46.5813	45.6739	2	30
1,3-Dichlorobenzene	1	55.9383	55.3176	1.1	30
1,4-Dichlorobenzene	1	55.0325	55.2841	0.46	40
1,2-Dichlorobenzene	1	55.3585	55.0526	0.55	40
Isopropylbenzene	1	58.0502	57.3009	1.3	30
Cyclohexanone	1	243.0123	238.1614	2	30
Camphene	1	55.6087	53.4539	4	30
1,2,3-Trichloropropane	1	51.9822	51.7972	0.36	30
2-Chlorotoluene	1	56.2034	55.866	0.6	30
p-Ethyltoluene	1	54.9377	54.3407	1.1	30
4-Chlorotoluene	1	55.2873	54.8847	0.73	30
n-Propylbenzene	1	57.0384	55.8298	2.1	40
Bromobenzene	1	52.1442	52.0821	0.12	30
1,3,5-Trimethylbenzene	1	54.7092	53.6035	2	30
Butyl methacrylate	1	34.5499	33.9985	1.6	30
t-Butylbenzene	1	58.5689	56.7766	3.1	30
1,2,4-Trimethylbenzene	1	54.1267	53.5593	1.1	30
sec-Butylbenzene	1	59.7959	57.9635	3.1	40
4-Isopropyltoluene	1	60.0813	58.4368	2.8	30
n-Butylbenzene	1	57.0399	55.2672	3.2	30
p-Diethylbenzene	1	59.5518	57.416	3.7	30
1,2,4,5-Tetramethylbenzene	1	59.2938	57.4098	3.2	30
1,2-Dibromo-3-Chloropropane	1	58.5065	56.8676	2.8	30
Camphor	1	613.6182	599.5587	2.3	30
Hexachlorobutadiene	1	61.9501	60.2011	2.9	30
1,2,4-Trichlorobenzene	1	55.8948	54.8222	1.9	30
1,2,3-Trichlorobenzene	1	54.4538	53.8702	1.1	30
Naphthalene	1	51.4899	50.1948	2.5	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 8M20083.D
Matrix: Soil

Blank Analysis Date: 08/22/18 01:52
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260C

Sample Number	Data File	Analysis Date
AD05999-001	8M20100.D	08/22/18 07:45
AD06068-002(MSD	8M20089.D	08/22/18 03:57
AD06068-002(MS)	8M20088.D	08/22/18 03:36
MBS70991	8M20087.D	08/22/18 03:15
AD06068-002	8M20084.D	08/22/18 02:13

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 8

Data File: 8M18958.D
Analysis Date: 07/26/18 17:03
Method: EPA 8260C

Tune Scan/Time Range: Average of 7.359 to 7.375 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	20.4	17022	PASS
75	95	30	60	51.3	42786	PASS
95	95	100	100	100.0	83458	PASS
96	95	5	9	7.4	6166	PASS
173	174	0.00	2	0.3	147	PASS
174	95	50	100	67.4	56241	PASS
175	174	5	9	8.1	4583	PASS
176	174	95	101	96.1	54047	PASS
177	176	5	9	6.6	3562	PASS

Data File	Sample Number	Analysis Date:
8M18960.D	CAL @ 0.5 PPB	07/26/18 17:39
8M18961.D	CAL @ 1 PPB	07/26/18 18:00
8M18962.D	CAL @ 2 PPB	07/26/18 18:21
8M18963.D	CAL @ 5 PPB	07/26/18 18:42
8M18964.D	CAL @ 20 PPB	07/26/18 19:02
8M18965.D	CAL @ 50 PPB	07/26/18 19:23
8M18966.D	CAL @ 500 PPB	07/26/18 19:44
8M18969.D	CAL @ 250 PPB	07/26/18 20:46
8M18972.D	CAL @ 100 PPB	07/26/18 21:48
8M18975.D	ICV	07/26/18 22:50
8M18979.D	daily blank	07/27/18 00:13

Data Path : G:\GcMsData\2018\GCMS_8\Data\07-2618\
Data File : 8M18958.D
Acq On : 26 Jul 2018 17:03
Operator : SG
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 26 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2018\GCMS_8\MethodQt\8M_S0707.M
Title : @GCMS_8,ug,624,8260
Last Update : Mon Jul 09 11:12:07 2018

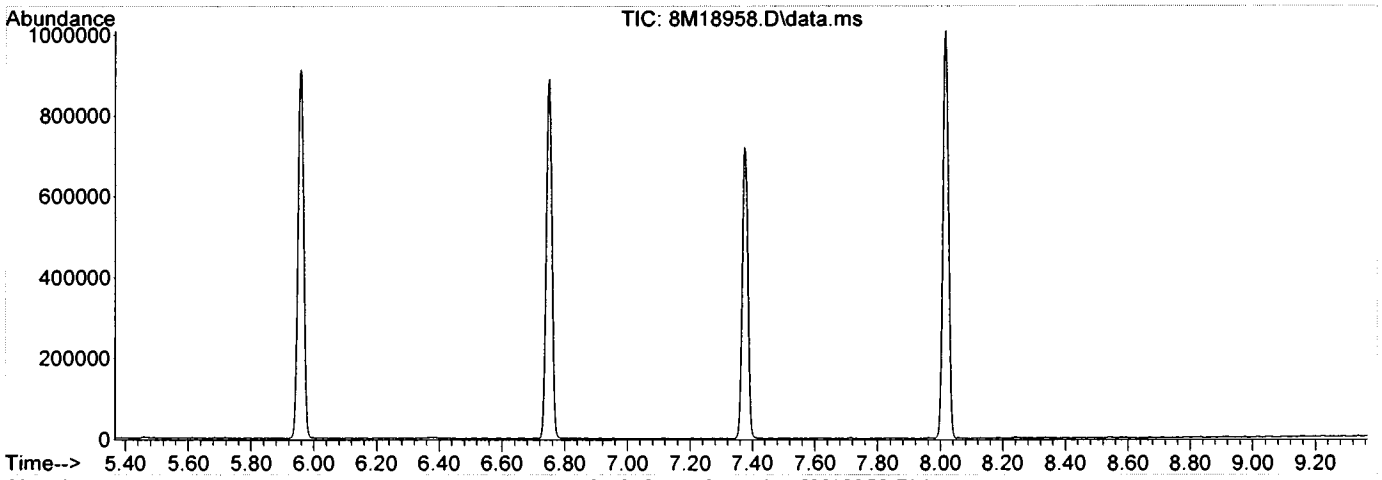

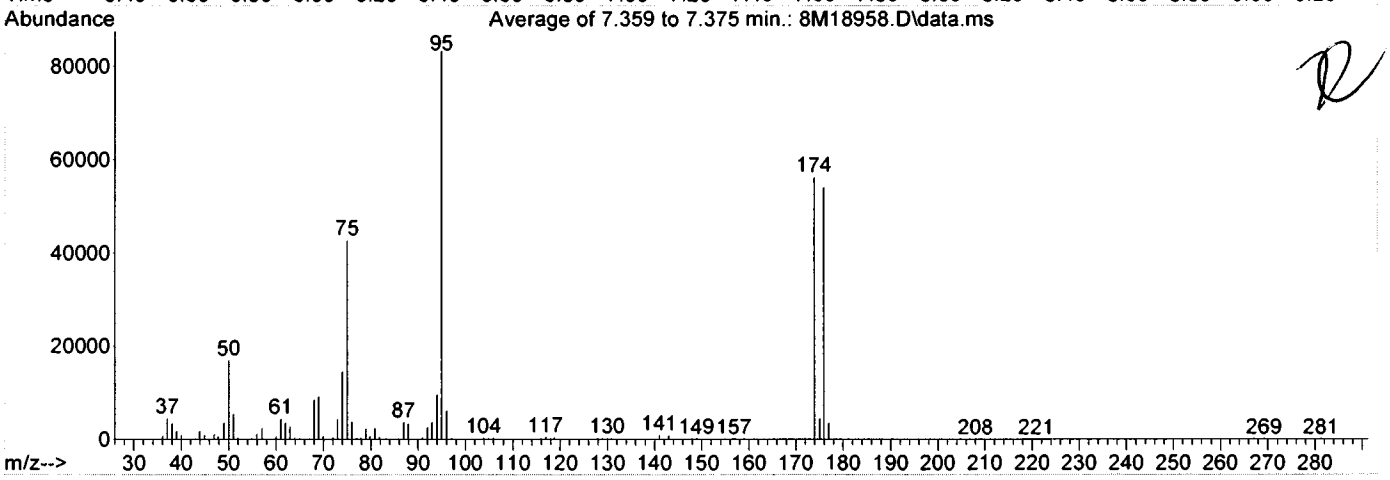

Spectrum Information: Average of 7.359 to 7.375 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.4	17022	PASS
75	95	30	60	51.3	42786	PASS
95	95	100	100	100.0	83458	PASS
96	95	5	9	7.4	6166	PASS
173	174	0.00	2	0.3	147	PASS
174	95	50	100	67.4	56241	PASS
175	174	5	9	8.1	4583	PASS
176	174	95	101	96.1	54047	PASS
177	176	5	9	6.6	3562	PASS

Form 5

Tune Name: BFB TUNE **Data File:** 8M20078.D
Instrument: GCMS 8 **Analysis Date:** 08/22/18 00:09
Method: EPA 8260C
Tune Scan/Time Range: Average of 7.362 to 7.397 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	16.1	18859	PASS
75	95	30	60	47.0	54914	PASS
95	95	100	100	100.0	116836	PASS
96	95	5	9	6.7	7836	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	79.8	93193	PASS
175	174	5	9	7.5	6974	PASS
176	174	95	101	96.4	89857	PASS
177	176	5	9	7.1	6407	PASS

Data File	Sample Number	Analysis Date:
8M20079.D	50 PPB	08/22/18 00:29
8M20080.D	CAL @ 50 PPB	08/22/18 00:50
8M20081.D	BLK	08/22/18 01:11
8M20082.D	BLK	08/22/18 01:32
8M20083.D	DAILY BLANK	08/22/18 01:52
8M20084.D	AD06068-002	08/22/18 02:13
8M20085.D	AD05993-006	08/22/18 02:34
8M20086.D	AD05993-007	08/22/18 02:55
8M20087.D	MBS70991	08/22/18 03:15
8M20088.D	AD06068-002(MS)	08/22/18 03:36
8M20089.D	AD06068-002(MSD	08/22/18 03:57
8M20090.D	BLK	08/22/18 04:18
8M20091.D	AD05993-008	08/22/18 04:38
8M20092.D	AD05993-009	08/22/18 04:59
8M20093.D	AD05993-010	08/22/18 05:20
8M20094.D	AD05993-011	08/22/18 05:41
8M20095.D	AD05993-012	08/22/18 06:01
8M20096.D	AD05993-013	08/22/18 06:22
8M20097.D	AD05993-014	08/22/18 06:43
8M20098.D	AD06019-004	08/22/18 07:04
8M20099.D	AD06019-005	08/22/18 07:24
8M20100.D	AD05999-001	08/22/18 07:45
8M20101.D	AD05999-002	08/22/18 08:06
8M20102.D	AD06051-001	08/22/18 08:27
8M20103.D	AD06051-002	08/22/18 08:48
8M20104.D	AD06051-003	08/22/18 09:08
8M20105.D	AD06051-004	08/22/18 09:29
8M20106.D	AD06051-005	08/22/18 09:50
8M20107.D	AD06065-001	08/22/18 10:11
8M20108.D	AD06051-001	08/22/18 10:32
8M20109.D	AD06051-002	08/22/18 10:52
8M20110.D	AD06051-003	08/22/18 11:13
8M20111.D	AD06051-004	08/22/18 11:34
8M20112.D	AD06051-005	08/22/18 11:55
8M20113.D	BLK	08/22/18 12:16

Data Path : G:\GcMsData\2018\GCMS_8\Data\0822-18\
Data File : 8M20078.D
Acq On : 22 Aug 2018 00:09
Operator : WP
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 98 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2018\GCMS_8\MethodQt\8M_S0726.M
Title : @GCMS_8,ug,624,8260
Last Update : Fri Jul 27 11:46:31 2018

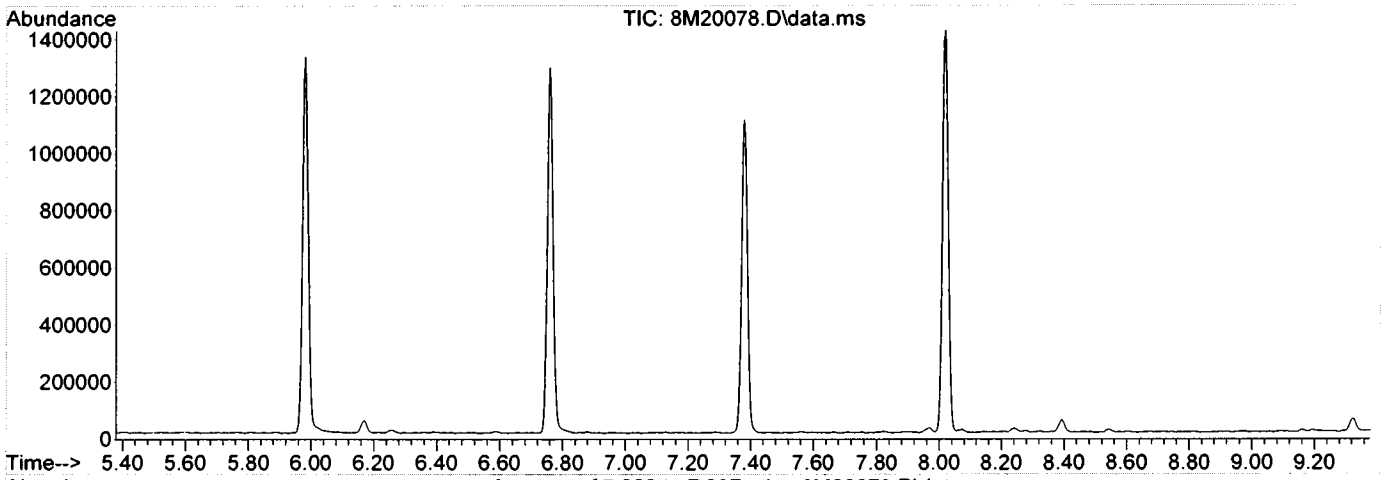

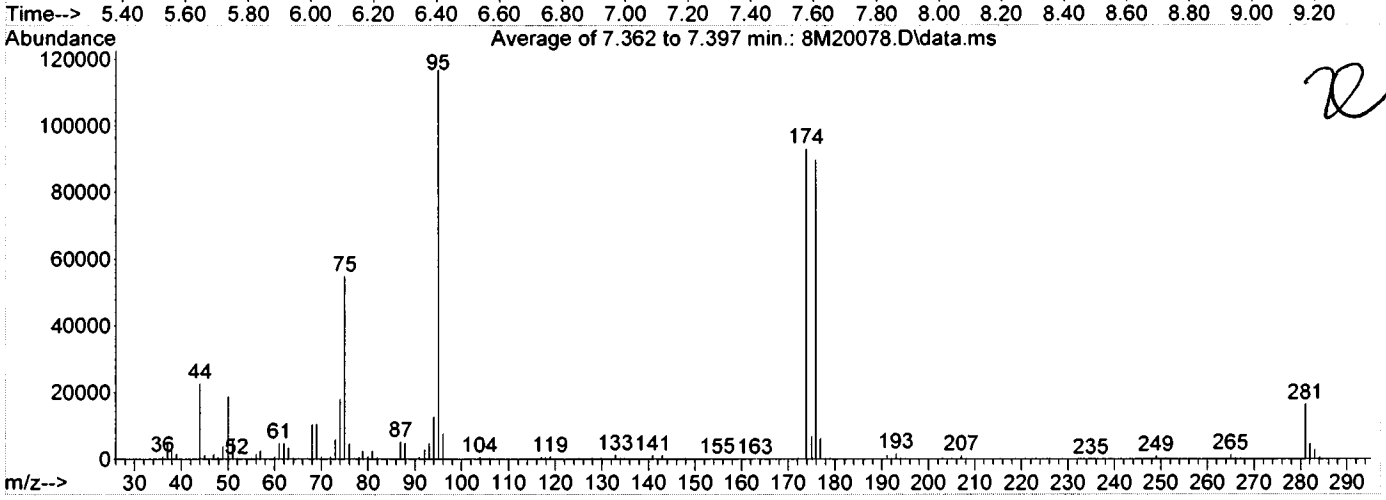

Spectrum Information: Average of 7.362 to 7.397 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.1	18859	PASS
75	95	30	60	47.0	54914	PASS
95	95	100	100	100.0	116836	PASS
96	95	5	9	6.7	7836	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	79.8	93193	PASS
175	174	5	9	7.5	6974	PASS
176	174	95	101	96.4	89857	PASS
177	176	5	9	7.1	6407	PASS

8081617 0036

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8M18964.D	CAL @ 20 PPB	07/26/18 19:02	2	8M18963.D	CAL @ 5 PPB	07/26/18 18:42
3	8M18962.D	CAL @ 2 PPB	07/26/18 18:21	4	8M18965.D	CAL @ 50 PPB	07/26/18 19:23
5	8M18972.D	CAL @ 100 PPB	07/26/18 21:48	6	8M18969.D	CAL @ 250 PPB	07/26/18 20:46
7	8M18966.D	CAL @ 500 PPB	07/26/18 19:44	8	8M18961.D	CAL @ 1 PPB	07/26/18 18:00
9	8M18960.D	CAL @ 0.5 PPB	07/26/18 17:39				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.4318	0.4212	0.4828	0.4372	0.4434	0.4655	0.4517	-----	-----	0.448	1.71	1.00	1.00	4.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dichlorodifluorometha	1	0	Avg	0.4372	0.4579	0.5291	0.4639	0.4834	0.4841	0.4681	-----	-----	0.475	1.69	1.00	1.00	6.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloromethane	1	0	Avg	0.4800	0.4818	0.5117	0.4870	0.5250	0.5389	0.4915	-----	-----	0.502	1.86	0.998	1.00	4.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromomethane	1	0	Avg	0.2067	0.2319	0.2733	0.2178	0.2463	0.2703	0.2381	-----	-----	0.241	2.24	0.996	0.999	10	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Chloride	1	0	Avg	0.4371	0.4196	0.4834	0.4529	0.4954	0.5084	0.4645	-----	-----	0.466	1.95	0.998	1.00	6.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroethane	1	0	Avg	0.2429	0.2421	0.2663	0.2410	0.2622	0.2704	0.2370	-----	-----	0.252	2.32	0.995	0.999	5.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichlorofluoromethan	1	0	Avg	0.5132	0.5319	0.6790	0.5243	0.5626	0.5595	0.5239	-----	-----	0.556	2.54	0.999	1.00	10	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl ether	1	0	Avg	0.3179	0.3206	0.3188	0.3135	0.3324	0.3459	0.3292	-----	-----	0.326	2.77	0.999	1.00	3.4	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Furan	1	0	Avg	0.6556	0.6582	0.6754	0.6635	0.6764	0.6987	0.6694	-----	-----	0.671	2.81	1.00	1.00	2.2	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1931	0.1948	0.2464	0.1989	0.2165	0.2122	0.2014	-----	-----	0.209	2.96	0.999	1.00	8.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methylene Chloride	1	0	Avg	0.3596	0.3543	0.3915	0.3536	0.3719	0.3865	0.3718	-----	-----	0.370	3.37	1.00	1.00	4.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acrolein	1	0	Avg	0.0647	0.0604	0.0625	0.0612	0.0625	0.0659	0.0630	-----	-----	0.0629	2.88	0.999	1.00	3.1		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Acrylonitrile	1	0	Avg	0.1341	0.1317	0.1461	0.1317	0.1343	0.1420	0.1365	-----	-----	0.137	3.56	1.00	1.00	4.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iodomethane	1	0	Qua	0.2644	0.1823	0.1448	0.3105	0.3403	0.3809	0.3571	-----	-----	0.283	3.11	0.999	0.999	32		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acetone	1	0	Qua	0.1172	0.1163	0.1911	0.1090	0.1080	0.1123	0.1061	-----	-----	0.123	3.00	0.999	1.00	25	0.10	100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Carbon Disulfide	1	0	Avg	1.0635	1.0883	1.3721	1.0778	1.1517	1.1475	1.0819	-----	-----	1.14	3.18	0.999	1.00	9.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butyl Alcohol	1	0	Avg	0.0503	0.0487	0.0648	0.0475	0.0496	0.0526	0.0493	-----	-----	0.0519	3.43	0.999	1.00	11		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
n-Hexane	1	0	Avg	0.3105	0.3033	0.4457	0.3124	0.3272	0.3254	0.3102	-----	-----	0.334	3.82	0.999	1.00	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Di-isopropyl-ether	1	0	Avg	1.1460	1.1032	1.1855	1.1716	1.1746	1.2111	1.1556	-----	-----	1.16	3.99	0.999	1.00	2.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1-Dichloroethene	1	0	Avg	0.5304	0.5172	0.6395	0.5318	0.5551	0.5593	0.5442	-----	-----	0.554	2.97	1.00	1.00	7.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl Acetate	1	0	Avg	0.4050	0.4126	0.4500	0.3851	0.3878	0.4012	0.3869	-----	-----	0.404	3.27	1.00	1.00	5.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl-t-butyl ether	1	0	Avg	0.8573	0.8212	0.8356	0.8617	0.8903	0.9348	0.9134	0.8257	-----	0.868	3.59	1.00	1.00	4.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethane	1	0	Avg	0.6733	0.6683	0.7427	0.6797	0.6885	0.7232	0.6859	-----	-----	0.695	3.95	0.999	1.00	4.0	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,2-Dichloroethe	1	0	Avg	0.3328	0.3541	0.3880	0.3382	0.3608	0.3662	0.3485	-----	-----	0.356	3.60	0.999	1.00	5.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl-t-butyl ether	1	0	Avg	1.0423	1.0401	1.0310	1.0620	1.0883	1.1327	1.0858	-----	-----	1.07	4.27	1.00	1.00	3.4	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,2-Dichloroethene	1	0	Avg	0.6459	0.6377	0.6697	0.6477	0.6556	0.6782	0.6553	-----	-----	0.656	4.39	1.00	1.00	2.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromochloromethane	1	0	Avg	0.3205	0.3241	0.3489	0.3193	0.3164	0.3223	0.3163	-----	-----	0.324	4.56	1.00	1.00	3.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2,2-Dichloropropane	1	0	Avg	0.5231	0.5276	0.6026	0.5315	0.5339	0.5591	0.5441	-----	-----	0.546	4.40	1.00	1.00	5.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl acetate	1	0	Avg	0.4258	0.4112	0.4174	0.4091	0.4084	0.4284	0.4163	-----	-----	0.417	4.42	1.00	1.00	1.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dioxane	1	0	Qua	0.0047	0.0046	0.0078	0.0046	0.0048	0.0050	0.0047	-----	-----	0.00521	5.51	0.999	1.00	22		1000.	250.0	100.0	2500.	5000.	1250	2500		
1,1-Dichloropropene	1	0	Avg	0.4764	0.4854	0.5703	0.4875	0.5078	0.5065	0.4932	-----	-----	0.504	4.83	1.00	1.00	6.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroform	1	0	Avg	0.6247	0.6274	0.7479	0.6289	0.6449	0.6638	0.6346	-----	-----	0.653	4.60	0.999	1.00	6.7	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromofluoromethan	1	0	Avg	0.2557	0.2580	0.2561	0.2598	0.2634	0.2603	0.2642	0.2545	0.2613	0.259	4.70	-1	-1	1.3		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.4851	0.4757	0.6316	0.5121	0.5341	0.5156	0.5046	-----	-----	0.523	4.78	1.00	1.00	9.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloroethane-d4	1	0	Avg	0.1497	0.1511	0.1532	0.1472	0.1423	0.1428	0.1438	0.1502	0.1528	0.148	4.91	-1	-1	2.9		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.4824	0.4874	0.5278	0.4733	0.4711	0.4881	0.4941	-----	-----	0.489	4.96	1.00	1.00	3.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Butanone	1	0	Avg	0.1787	0.1746	0.2081	0.1738	0.1753	0.1840	0.1735	-----	-----	0.181	4.39	0.999	1.00	6.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,1-Trichloroethane	1	0	Avg	0.5433	0.5502	0.6201	0.5515	0.5703	0.5817	0.5606	-----	-----	0.568	4.73	1.00	1.00	4.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Carbon Tetrachloride	1	0	Avg	0.4387	0.4150	0.4879	0.4589	0.4838	0.4919	0.4865	-----	-----	0.466	4.84	1.00	1.00	6.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Acetate	1	0	Avg	0.9059	0.8634	0.8931	0.9190	0.9165	0.9597	0.9444	-----	-----	0.915	3.98	1.00	1.00	3.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromodichloromethan	1	0	Avg	0.4655	0.4503	0.4949	0.4716	0.4859	0.5089	0.5083	-----	-----	0.484	5.59	1.00	1.00	4.6	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.36
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Form 6
Initial Calibration

Method: EPA 8260C

Instrument: GCMS_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8M18964.D	CAL @ 20 PPB	07/26/18 19:02	2	8M18963.D	CAL @ 5 PPB	07/26/18 18:42
3	8M18962.D	CAL @ 2 PPB	07/26/18 18:21	4	8M18965.D	CAL @ 50 PPB	07/26/18 19:23
5	8M18972.D	CAL @ 100 PPB	07/26/18 21:48	6	8M18969.D	CAL @ 250 PPB	07/26/18 20:46
7	8M18966.D	CAL @ 500 PPB	07/26/18 19:44	8	8M18961.D	CAL @ 1 PPB	07/26/18 18:00
9	8M18960.D	CAL @ 0.5 PPB	07/26/18 17:39				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.5237	0.4896	0.5790	0.5336	0.5726	0.5573	0.5432	-----	-----	0.543	5.44	1.00	1.00	5.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromomethane	1	0	Avg	0.1867	0.1809	0.1923	0.1857	0.1979	0.2065	0.2029	-----	-----	0.193	5.51	1.00	1.00	4.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloropropane	1	0	Avg	0.3843	0.3917	0.4315	0.3848	0.3983	0.4130	0.4070	-----	-----	0.402	5.45	1.00	1.00	4.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichloroethene	1	0	Avg	0.3258	0.3277	0.4010	0.3332	0.3530	0.3647	0.3538	-----	-----	0.351	5.32	1.00	1.00	7.5	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Benzene	1	0	Avg	1.4285	1.4427	1.6501	1.4197	1.4492	1.4359	1.2235	1.5791	-----	1.45	4.96	0.993	1.00	8.6	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
tert-Amyl methyl ether	1	0	Avg	0.9974	0.9642	0.9517	0.9969	1.0105	1.0329	0.9827	-----	-----	0.991	5.00	0.999	1.00	2.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iso-propylacetate	1	0	Avg	0.8718	0.8704	0.8603	0.8603	0.8412	0.8543	0.7881	-----	-----	0.850	4.96	0.998	1.00	3.4	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl methacrylate	1	0	Avg	0.4766	0.4657	0.4444	0.4626	0.4458	0.4534	0.4289	-----	-----	0.454	5.48	0.999	1.00	3.5	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromochloromethan	1	0	Avg	0.3533	0.3587	0.3623	0.3627	0.3786	0.3952	0.3900	-----	-----	0.372	6.45	1.00	1.00	4.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chloroethylvinylethe	1	0	Avg	0.2422	0.2321	0.2511	0.2457	0.2515	0.2598	0.2502	-----	-----	0.248	5.73	1.00	1.00	3.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,3-Dichloropropen	1	0	Avg	0.6321	0.6395	0.6624	0.6446	0.6499	0.6569	0.6261	-----	-----	0.645	5.83	0.999	1.00	2.0	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,3-Dichloroprop	1	0	Avg	0.5851	0.5592	0.6535	0.5919	0.5898	0.6009	0.5851	-----	-----	0.595	6.12	1.00	1.00	4.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl methacrylate	1	0	Avg	0.4407	0.4272	0.4588	0.4368	0.4340	0.4435	0.4357	-----	-----	0.440	6.14	1.00	1.00	2.3	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloroethane	1	0	Avg	0.3198	0.3297	0.3517	0.3188	0.3256	0.3291	0.3214	-----	-----	0.328	6.22	1.00	1.00	3.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromoethane	1	0	Avg	0.3211	0.3238	0.3470	0.3205	0.3314	0.3373	0.3318	0.3501	-----	0.333	6.52	1.00	1.00	3.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.5949	0.5911	0.6436	0.5842	0.5975	0.6037	0.5858	-----	-----	0.600	6.32	1.00	1.00	3.4		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Methyl-2-Pentanone	1	0	Avg	0.4347	0.4291	0.4455	0.4292	0.4284	0.4369	0.4131	-----	-----	0.431	5.90	0.999	1.00	2.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Hexanone	1	0	Avg	0.3328	0.3143	0.3112	0.3150	0.3154	0.3180	0.3052	-----	-----	0.316	6.34	1.00	1.00	2.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Tetrachloroethene	1	0	Avg	0.2586	0.2635	0.3130	0.2629	0.2778	0.2730	0.2598	-----	-----	0.273	6.32	0.999	1.00	7.0	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Toluene-d8	1	0	Avg	1.1907	1.1750	1.1997	1.1841	1.1706	1.1581	1.1196	1.1824	1.1878	1.17	5.98	-1	-1	2.0		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.9011	0.9349	1.1418	0.9097	0.9370	0.9175	0.8445	1.2159	-----	0.975	6.02	0.998	1.00	13	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.3231	0.3247	0.3685	0.3263	0.3403	0.3492	0.3425	-----	-----	0.339	6.81	1.00	1.00	4.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chlorobenzene	1	0	Avg	0.9594	0.9866	1.1775	0.9697	0.9834	0.9743	0.9082	-----	-----	0.994	6.78	0.999	1.00	8.6	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Butyl acrylate	1	0	Avg	1.5934	1.5568	1.6717	1.5358	1.6123	1.6062	1.4363	-----	-----	1.57	7.02	0.997	1.00	4.7	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Amyl acetate	1	0	Avg	1.3804	1.3676	1.4464	1.3211	1.3279	1.3245	1.2067	-----	-----	1.34	7.14	0.998	1.00	5.5	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromoform	1	0	Avg	0.4076	0.4115	0.4536	0.4116	0.4527	0.4689	0.4481	-----	-----	0.436	7.22	0.999	1.00	5.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethylbenzene	1	0	Avg	0.7458	0.7781	0.9067	0.7284	0.7954	0.7824	0.7077	1.0242	-----	0.809	6.82	0.997	1.00	13	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.8936	0.8742	0.9974	0.8367	0.8820	0.8711	0.8215	-----	-----	0.882	7.44	0.999	1.00	6.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromofluorobenzene	1	0	Avg	0.7117	0.7131	0.7344	0.6936	0.7322	0.7251	0.6865	0.7218	0.7129	0.715	7.38	-1	-1	2.3		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.8892	1.9093	2.1727	1.8656	1.9856	1.9469	1.6571	-----	-----	1.92	7.10	0.993	1.00	8.0	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
m&p-Xylenes	1	0	Qua	1.1408	1.1618	1.4413	1.1002	1.1590	1.1072	0.8951	1.6935	2.0471	1.31	6.88	0.988	1.00	28	0.10	40.00	10.00	4.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	1.1030	1.1506	1.3147	1.0884	1.1436	1.1368	1.0575	1.5342	-----	1.19	7.10	0.999	1.00	13	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.4238	0.4328	0.4611	0.4093	0.4254	0.4284	0.4161	-----	-----	0.428	7.46	1.00	1.00	3.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3-Dichlorobenzene	1	0	Avg	1.2575	1.2751	1.4933	1.2769	1.3004	1.3003	1.2529	-----	-----	1.31	7.99	1.00	1.00	6.4	0.60	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dichlorobenzene	1	0	Avg	1.2607	1.2966	1.5792	1.2721	1.2912	1.2810	1.2524	-----	-----	1.32	8.03	1.00	1.00	8.8	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichlorobenzene	1	0	Avg	1.2208	1.3030	1.4136	1.2322	1.2631	1.2542	1.2274	-----	-----	1.27	8.25	1.00	1.00	5.3	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Isopropylbenzene	1	0	Avg	2.8618	2.8266	3.1417	2.8027	2.9463	2.7702	1.9832	3.4880	-----	2.85	7.29	0.967	0.999	15	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.1015	0.1031	0.1193	0.0937	0.0953	0.1014	0.0868	-----	-----	0.100	7.36	0.994	0.999	10		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Camphene	1	0	Avg	1.2438	1.1280	1.2454	1.2548	1.3610	1.3377	1.2457	-----	-----	1.26	7.46	0.999	1.00	6.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichloropropane	1	0	Avg	1.1300	1.0974	1.2315	1.0572	1.0940	1.1244	1.0667	-----	-----	1.11	7.47	0.999	1.00	5.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chlorotoluene	1	0	Avg	1.7456	1.8440	2.0813	1.7436	1.7950	1.7235	1.2010	-----	-----	1.73	7.58	0.960	0.998	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.36
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8M18964.D	CAL @ 20 PPB	07/26/18 19:02	2	8M18963.D	CAL @ 5 PPB	07/26/18 18:42
3	8M18962.D	CAL @ 2 PPB	07/26/18 18:21	4	8M18965.D	CAL @ 50 PPB	07/26/18 19:23
5	8M18972.D	CAL @ 100 PPB	07/26/18 21:48	6	8M18969.D	CAL @ 250 PPB	07/26/18 20:46
7	8M18966.D	CAL @ 500 PPB	07/26/18 19:44	8	8M18961.D	CAL @ 1 PPB	07/26/18 18:00
9	8M18960.D	CAL @ 0.5 PPB	07/26/18 17:39				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	3.0952	3.1699	3.5721	3.0538	3.1225	2.9197	1.9570	-----	-----	2.98	7.57	0.949	0.999	17		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Chlorotoluene	1	0	Avg	1.7071	1.7100	1.9803	1.6900	1.7203	1.6534	1.2093	-----	-----	1.67	7.63	0.970	0.999	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Propylbenzene	1	0	Avg	3.4781	3.5680	4.0510	3.4557	3.5195	3.2017	2.0876	4.4789	-----	3.48	7.51	0.942	0.999	20		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.9892	2.0332	2.3241	1.9456	2.0058	1.9951	1.8954	-----	-----	2.03	7.48	0.999	1.00	6.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3,5-Trimethylbenzen	1	0	Avg	2.1981	2.2341	2.4881	2.2006	2.2946	2.2290	1.6286	2.7940	-----	2.26	7.59	0.972	0.999	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	1.0435	1.0049	1.0857	1.0462	1.0448	1.0319	1.0393	-----	-----	1.04	7.60	1.00	1.00	2.3	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butylbenzene	1	0	Avg	2.2805	2.2265	2.4737	2.2986	2.4262	2.3697	2.0538	2.6731	-----	2.35	7.78	0.995	1.00	7.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	2.4223	2.4896	2.9070	2.4207	2.4800	2.3835	1.8794	3.2217	-----	2.53	7.81	0.984	0.999	16		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	3.0325	3.0485	3.2583	3.0880	3.2111	2.9996	2.0515	3.5373	-----	3.03	7.90	0.956	0.999	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	2.4799	2.4098	2.6241	2.5307	2.6306	2.5283	1.9056	2.7860	-----	2.49	7.97	0.977	0.999	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	3.0151	2.9100	3.2535	3.0780	3.1030	2.9838	2.3429	3.5533	-----	3.03	8.20	0.984	1.00	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	1.5570	1.5222	1.6274	1.6340	1.6710	1.6798	1.5747	-----	-----	1.61	8.18	0.999	1.00	3.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4,5-Tetramethylbe	1	0	Avg	2.2980	2.2404	2.2443	2.4455	2.4880	2.4344	1.9178	-----	-----	2.30	8.63	0.984	0.999	8.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromo-3-Chloro	1	0	Avg	0.1804	0.1616	0.1925	0.1737	0.1860	0.1930	0.1855	-----	-----	0.182	8.69	1.00	1.00	6.1	0.05	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Camphor	1	0	Avg	0.1020	0.0952	0.1048	0.1014	0.1074	0.1104	0.1015	-----	-----	0.103	9.11	0.998	1.00	4.7		200.0	50.00	20.00	500.0	1000.	2500.	5000.		
Hexachlorobutadiene	1	0	Avg	0.4241	0.4079	0.4158	0.4325	0.4629	0.4741	0.4710	-----	-----	0.441	9.25	1.00	1.00	6.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4-Trichlorobenzen	1	0	Avg	0.7970	0.8028	0.8994	0.8356	0.8318	0.8420	0.8812	-----	-----	0.841	9.17	1.00	1.00	4.5	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichlorobenzen	1	0	Avg	0.7863	0.7961	0.8733	0.8297	0.8410	0.8440	0.8766	-----	-----	0.835	9.46	1.00	1.00	4.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Naphthalene	1	0	Qua	2.4618	2.4509	2.9933	2.4950	2.5650	2.4603	1.9746	4.8577	-----	2.78	9.32	0.987	1.00	32		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.36
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 8M20080.D **Instrument:** GCMS 8

Cont Calibration Date/Time 8/22/2018 12:50:00 Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.11	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.71	53.10	50	20	0.1	0.448	0.476	6.21	
Dichlorodifluoromethane	1	0		1.70	13.53	50	20	0.1	0.475	0.128	72.94	C1
Chloromethane	1	0		1.86	29.98	50	20	0.1	0.502	0.301	40.04	C1
Bromomethane	1	0		2.24	47.71	50	20	0.1	0.241	0.230	4.59	
Vinyl Chloride	1	0		1.95	35.12	50	20	0.1	0.466	0.327	29.76	C1
Chloroethane	1	0		2.32	45.06	50	20	0.1	0.252	0.227	9.89	
Trichlorofluoromethane	1	0		2.54	37.88	50	20	0.1	0.556	0.422	24.24	C1
Ethyl ether	1	0		2.77	48.09	50	20	0.5	0.326	0.313	3.83	
Furan	1	0		2.81	40.78	50	20	0.5	0.671	0.547	18.44	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.96	37.64	50	20	0.1	0.209	0.157	24.73	C1
Methylene Chloride	1	0		3.36	47.97	50	20	0.1	0.370	0.355	4.07	
Acrolein	1	0		2.88	129.67	250	20		0.063	0.033	48.13	C1
Acrylonitrile	1	0		3.56	42.63	50	20		0.137	0.117	14.74	
Iodomethane	1	0		3.11	42.51	50	20		0.283	0.318	14.98	
Acetone	1	0		3.00	190.33	250	20	0.1	0.123	0.087	23.87	C1
Carbon Disulfide	1	0		3.18	34.93	50	20	0.1	1.140	0.797	30.14	C1
t-Butyl Alcohol	1	0		3.42	214.79	250	20		0.052	0.045	14.09	
n-Hexane	1	0		3.82	32.59	50	20		0.334	0.217	34.83	C1
Di-isopropyl-ether	1	0		3.99	43.36	50	20		1.164	1.010	13.27	
1,1-Dichloroethene	1	0		2.97	37.25	50	20	0.1	0.554	0.413	25.50	C1
Methyl Acetate	1	0		3.27	41.26	50	20	0.1	0.404	0.334	17.48	
Methyl-t-butyl ether	1	0		3.59	47.46	50	20	0.1	0.868	0.823	5.08	
1,1-Dichloroethane	1	0		3.95	44.27	50	20	0.2	0.695	0.615	11.47	
trans-1,2-Dichloroethene	1	0		3.60	45.44	50	20	0.1	0.356	0.323	9.11	
Ethyl-t-butyl ether	1	0		4.27	45.61	50	20	0.5	1.069	0.975	8.78	
cis-1,2-Dichloroethene	1	0		4.39	43.71	50	20	0.1	0.656	0.573	12.58	
Bromochloromethane	1	0		4.55	42.70	50	20		0.324	0.277	14.59	
2,2-Dichloropropane	1	0		4.40	41.74	50	20		0.546	0.456	16.52	
Ethyl acetate	1	0		4.42	41.33	50	20		0.417	0.344	17.34	
1,4-Dioxane	1	0		5.51	2240.81	2500	20		0.005	0.005	10.37	
1,1-Dichloropropene	1	0		4.83	39.80	50	20		0.504	0.401	20.40	
Chloroform	1	0		4.60	45.47	50	20	0.2	0.653	0.594	9.07	
Dibromofluoromethane	1	0	S	4.70	31.45	75	**		0.259	0.272	4.84	
Cyclohexane	1	0		4.78	34.52	50	20	0.1	0.523	0.361	30.95	C1
1,2-Dichloroethane-d4	1	0	S	4.92	27.03	75	**		0.148	0.133	9.91	
1,2-Dichloroethane	1	0		4.96	42.67	50	20	0.1	0.489	0.417	14.66	
2-Butanone	1	0		4.39	43.71	50	20	0.1	0.181	0.158	12.58	
1,1,1-Trichloroethane	1	0		4.74	41.63	50	20	0.1	0.568	0.473	16.74	
Carbon Tetrachloride	1	0		4.84	41.37	50	20	0.1	0.466	0.386	17.26	
Vinyl Acetate	1	0		3.98	40.01	50	20		0.915	0.732	19.99	
Bromodichloromethane	1	0		5.59	45.20	50	20	0.2	0.484	0.437	9.61	
Methylcyclohexane	1	0		5.44	39.15	50	20	0.1	0.543	0.425	21.71	C1
Dibromomethane	1	0		5.51	54.80	50	20		0.193	0.212	9.60	
1,2-Dichloropropane	1	0		5.45	44.52	50	20	0.1	0.402	0.358	10.97	
Trichloroethene	1	0		5.32	46.18	50	20	0.2	0.351	0.325	7.64	
Benzene	1	0		4.96	45.46	50	20	0.5	1.454	1.322	9.09	
tert-Amyl methyl ether	1	0		5.01	47.97	50	20		0.991	0.951	4.05	
Chlorobenzene-d5	1	0	I	6.76	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.96	43.83	50	20	0.5	0.850	0.745	12.33	
Methyl methacrylate	1	0		5.47	43.35	50	20	0.5	0.454	0.394	13.30	
Dibromochloromethane	1	0		6.45	49.23	50	20	0.1	0.372	0.366	1.54	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 8M20080.D **Instrument:** GCMS 8

Cont Calibration Date/Time 8/22/2018 12:50:00 Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.73	49.06	50	20		0.248	0.243	1.88	
cis-1,3-Dichloropropene	1	0		5.83	46.41	50	20	0.2	0.645	0.598	7.18	
trans-1,3-Dichloropropene	1	0		6.12	44.99	50	20	0.1	0.595	0.536	10.01	
Ethyl methacrylate	1	0		6.14	42.41	50	20	0.5	0.440	0.373	15.17	
1,1,2-Trichloroethane	1	0		6.22	48.92	50	20	0.1	0.328	0.321	2.17	
1,2-Dibromoethane	1	0		6.52	47.72	50	20	0.1	0.333	0.318	4.56	
1,3-Dichloropropane	1	0		6.32	46.07	50	20		0.600	0.553	7.85	
4-Methyl-2-Pentanone	1	0		5.90	43.04	50	20	0.1	0.431	0.371	13.92	
2-Hexanone	1	0		6.33	41.92	50	20	0.1	0.316	0.265	16.15	
Tetrachloroethene	1	0		6.32	44.54	50	20	0.2	0.273	0.243	10.91	
Toluene-d8	1	0	S	5.98	29.98	75	**		1.174	1.174	0.06	
Toluene	1	0		6.02	42.30	50	20	0.4	0.975	0.825	15.39	
1,1,1,2-Tetrachloroethane	1	0		6.81	45.77	50	20		0.339	0.311	8.46	
Chlorobenzene	1	0		6.78	44.20	50	20	0.5	0.994	0.879	11.59	
1,4-Dichlorobenzene-d4	1	0	I	8.02	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.02	43.89	50	20	0.5	1.573	1.381	12.23	
n-Amyl acetate	1	0		7.14	42.07	50	20	0.5	1.339	1.127	15.87	
Bromoform	1	0		7.22	49.52	50	20	0.1	0.436	0.432	0.95	
Ethylbenzene	1	0		6.82	39.79	50	20	0.1	0.809	0.644	20.41	
1,1,2,2-Tetrachloroethane	1	0		7.43	45.04	50	20	0.1	0.882	0.795	9.92	
Bromofluorobenzene	1	0	S	7.38	30.80	75	**		0.715	0.734	2.68	
Styrene	1	0		7.10	44.66	50	20	0.3	1.918	1.713	10.69	
m&p-Xylenes	1	0		6.88	79.15	100	20	0.1	1.305	0.985	20.85	C1
o-Xylene	1	0		7.10	41.03	50	20	0.3	1.191	0.977	17.94	
trans-1,4-Dichloro-2-butene	1	0		7.46	40.30	50	20		0.428	0.345	19.40	
1,3-Dichlorobenzene	1	0		7.99	43.19	50	20	0.6	1.308	1.130	13.61	
1,4-Dichlorobenzene	1	0		8.03	43.28	50	20	0.5	1.319	1.142	13.44	
1,2-Dichlorobenzene	1	0		8.25	42.67	50	20	0.4	1.274	1.087	14.67	
Isopropylbenzene	1	0		7.29	43.42	50	20	0.1	2.853	2.477	13.15	
Cyclohexanone	1	0		7.36	138.63	250	20		0.100	0.056	44.55	C1
Camphene	1	0		7.46	43.90	50	20		1.260	1.106	12.20	
1,2,3-Trichloropropane	1	0		7.47	43.59	50	20		1.115	0.972	12.83	
2-Chlorotoluene	1	0		7.57	42.61	50	20		1.733	1.477	14.77	
p-Ethyltoluene	1	0		7.56	42.45	50	20		2.984	2.534	15.10	
4-Chlorotoluene	1	0		7.63	42.38	50	20		1.667	1.413	15.24	
n-Propylbenzene	1	0		7.51	42.24	50	20		3.480	2.940	15.51	
Bromobenzene	1	0		7.48	41.11	50	20		2.027	1.667	17.77	
1,3,5-Trimethylbenzene	1	0		7.59	40.74	50	20		2.258	1.840	18.53	
Butyl methacrylate	1	0		7.60	41.98	50	20	0.5	1.042	0.875	16.05	
t-Butylbenzene	1	0		7.78	43.11	50	20		2.350	2.027	13.77	
1,2,4-Trimethylbenzene	1	0		7.81	41.08	50	20		2.526	2.075	17.84	
sec-Butylbenzene	1	0		7.90	44.35	50	20		3.028	2.686	11.31	
4-Isopropyltoluene	1	0		7.97	44.75	50	20		2.487	2.226	10.51	
n-Butylbenzene	1	0		8.20	42.74	50	20		3.030	2.590	14.52	
p-Diethylbenzene	1	0		8.19	44.18	50	20		1.610	1.422	11.65	
1,2,4,5-Tetramethylbenzene	1	0		8.63	45.32	50	20		2.296	2.081	9.35	
1,2-Dibromo-3-Chloropropane	1	0		8.69	45.03	50	20	0.05	0.182	0.164	9.94	
Camphor	1	0		9.11	463.31	500	20		0.103	0.096	7.34	
Hexachlorobutadiene	1	0		9.25	48.22	50	20		0.441	0.426	3.56	
1,2,4-Trichlorobenzene	1	0		9.17	43.81	50	20	0.2	0.841	0.737	12.38	
1,2,3-Trichlorobenzene	1	0		9.46	43.07	50	20		0.835	0.720	13.85	
Naphthalene	1	0		9.32	39.35	50	20		2.782	2.183	21.30	C1

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

8081617 0041

FORM8

Internal Standard Areas

Evaluation Std Data File: 8M18964.D Method: EPA 8260C

Analysis Date/Time: 07/26/18 19:02

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	661110	5.11	604531	6.76	332203	8.02								
Eval File Area Limit:	330555-1322220		302266-1209062		166102-664406									
Eval File Rt Limit:	4.61-5.61		6.26-7.26		7.52-8.52									

Data File	Sample						
8M18960.D	CAL @ 0.5 PPB	655202	5.11	614835	6.76	321924	8.02
8M18961.D	CAL @ 1 PPB	656865	5.11	602584	6.76	321777	8.02
8M18962.D	CAL @ 2 PPB	618415	5.11	563802	6.76	301220	8.02
8M18963.D	CAL @ 5 PPB	679951	5.11	623677	6.76	335573	8.02
8M18964.D	CAL @ 20 PPB	661110	5.11	604531	6.76	332203	8.02
8M18965.D	CAL @ 50 PPB	681396	5.11	630354	6.76	362221	8.02
8M18966.D	CAL @ 500 PPB	685663	5.11	694028	6.76	416054	8.02
8M18969.D	CAL @ 250 PPB	735329	5.11	706628	6.76	397883	8.02
8M18972.D	CAL @ 100 PPB	776946	5.11	727267	6.76	404337	8.02
8M18975.D	ICV	762175	5.11	707056	6.76	392719	8.02
8M18979.D	daily blank	718153	5.11	664781	6.76	354587	8.02

I1 =	Fluorobenzene	I4 =		I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =			624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =			524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

8081617 0042

FORM8

Internal Standard Areas

Evaluation Std Data File: 8M20080.D Method: EPA 8260C

Analysis Date/Time: 08/22/18 00:50

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	601339	5.11	558447	6.76	312651	8.02								
Eval File Area Limit:	300670-1202678		279224-1116894		156326-625302									
Eval File Rt Limit:	4.61-5.61		6.26-7.26		7.52-8.52									

Data File	Sample						
8M20079.D	50 PPB	607897	5.11	555142	6.76	311596	8.02
8M20081.D	BLK	602369	5.11	553160	6.76	295629	8.02
8M20082.D	BLK	612034	5.11	577825	6.76	305393	8.02
8M20083.D	DAILY BLANK	581280	5.11	542609	6.76	287567	8.02
8M20084.D	AD06068-002	564660	5.11	527581	6.76	280393	8.02
8M20085.D	AD05993-006	563395	5.11	503091	6.76	244905	8.02
8M20086.D	AD05993-007	552905	5.11	501143	6.76	258458	8.02
8M20087.D	MBS70991	547874	5.11	511639	6.76	285074	8.02
8M20088.D	AD06068-002(MS)	556761	5.11	510788	6.76	285737	8.02
8M20089.D	AD06068-002(MSD)	545616	5.11	500179	6.76	282794	8.02
8M20090.D	BLK	543228	5.11	504415	6.76	269029	8.02
8M20091.D	AD05993-008	515563	5.11	474869	6.76	253452	8.02
8M20092.D	AD05993-009	522909	5.11	477209	6.76	234587	8.02
8M20093.D	AD05993-010	496798	5.11	455330	6.76	244161	8.02
8M20094.D	AD05993-011	493929	5.11	464525	6.76	246554	8.02
8M20095.D	AD05993-012	482899	5.11	438665	6.76	217451	8.02
8M20096.D	AD05993-013	461202	5.11	432929	6.76	231593	8.02
8M20097.D	AD05993-014	433209	5.11	382036	6.76	175838	8.02
8M20098.D	AD06019-004	464823	5.11	434745	6.76	227253	8.02
8M20099.D	AD06019-005	461747	5.11	430963	6.76	224675	8.02
8M20100.D	AD05999-001	456453	5.11	427439	6.76	224276	8.02
8M20101.D	AD05999-002	464845	5.11	438087	6.76	224566	8.02
8M20102.D	AD06051-001	437309	5.11	401401	6.76	198683	8.02
8M20103.D	AD06051-002	413827	5.11	389173	6.76	208141	8.02
8M20104.D	AD06051-003	421629	5.11	400120	6.76	214729	8.02
8M20105.D	AD06051-004	421051	5.11	394155	6.76	209964	8.02
8M20106.D	AD06051-005	422981	5.11	398017	6.76	207903	8.02
8M20107.D	AD06065-001	417604	5.11	368807	6.76	171142	8.02
8M20108.D	AD06051-001	418140	5.11	385979	6.76	190934	8.02
8M20109.D	AD06051-002	406187	5.11	388391	6.76	204793	8.02
8M20110.D	AD06051-003	395227	5.11	378581	6.76	199508	8.02
8M20111.D	AD06051-004	415935	5.11	398464	6.76	207027	8.02

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

8081617 0043

FORM8

Internal Standard Areas

Evaluation Std Data File: 8M20080.D Method: EPA 8260C

Analysis Date/Time: 08/22/18 00:50

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	601339	5.11	558447	6.76	312651	8.02								
Eval File Area Limit:	300670-1202678		279224-1116894		156326-625302									
Eval File Rt Limit:	4.61-5.61		6.26-7.26		7.52-8.52									

Data File	Sample						
8M20112.D	AD06051-005	386497	5.11	361615	6.76	195202	8.02
8M20113.D	BLK	390804	5.11	365255	6.76	193703	8.02

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

TCLP Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD05999-001(T)
Client Id: SS-1
Data File: 3M134840.D
Analysis Date: 08/22/18 16:27
Date Rec/Extracted: 08/16/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
75-35-4	1,1-Dichloroethene	0.0010	U	108-90-7	Chlorobenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.00050	U	67-66-3	Chloroform	0.0010	U
106-46-7	1,4-Dichlorobenzene	0.0010	U	127-18-4	Tetrachloroethene	0.0010	U
78-93-3	2-Butanone	0.0010	U	79-01-6	Trichloroethene	0.0010	U
71-43-2	Benzene	0.00050	U	75-01-4	Vinyl Chloride	0.0010	U
56-23-5	Carbon Tetrachloride	0.0010	U				

Worksheet #: 476727

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

8081617 0046

SampleID : AD05999-001(T) Operator : WP Qt Meth : 3M_A0713.M
Data File: 3M134840.D Sam Mult : 1 Vial# : 12 Qt On : 08/22/18 16:49
Acq On : 08/22/18 16:27 Misc : A,5ML!14 Qt Upd On: 07/16/18 14:59

Data Path : G:\GcMsData\2018\GCMS_3\Data\08-22-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
4) Fluorobenzene	4.940	96	170583	30.00 ug/l	-0.01
52) Chlorobenzene-d5	6.790	117	145151	30.00 ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.238	152	66569	30.00 ug/l	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	4.513	111	43754	29.39 ug/l	-0.02
Spiked Amount 30.000			Recovery = 97.97%		
39) 1,2-Dichloroethane-d4	4.736	67	30659	28.84 ug/l	-0.01
Spiked Amount 30.000			Recovery = 96.13%		
66) Toluene-d8	5.913	98	169785	26.91 ug/l	0.00
Spiked Amount 30.000			Recovery = 89.70%		
76) Bromofluorobenzene	7.505	174	63507	25.08 ug/l	0.00
Spiked Amount 30.000			Recovery = 83.60%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

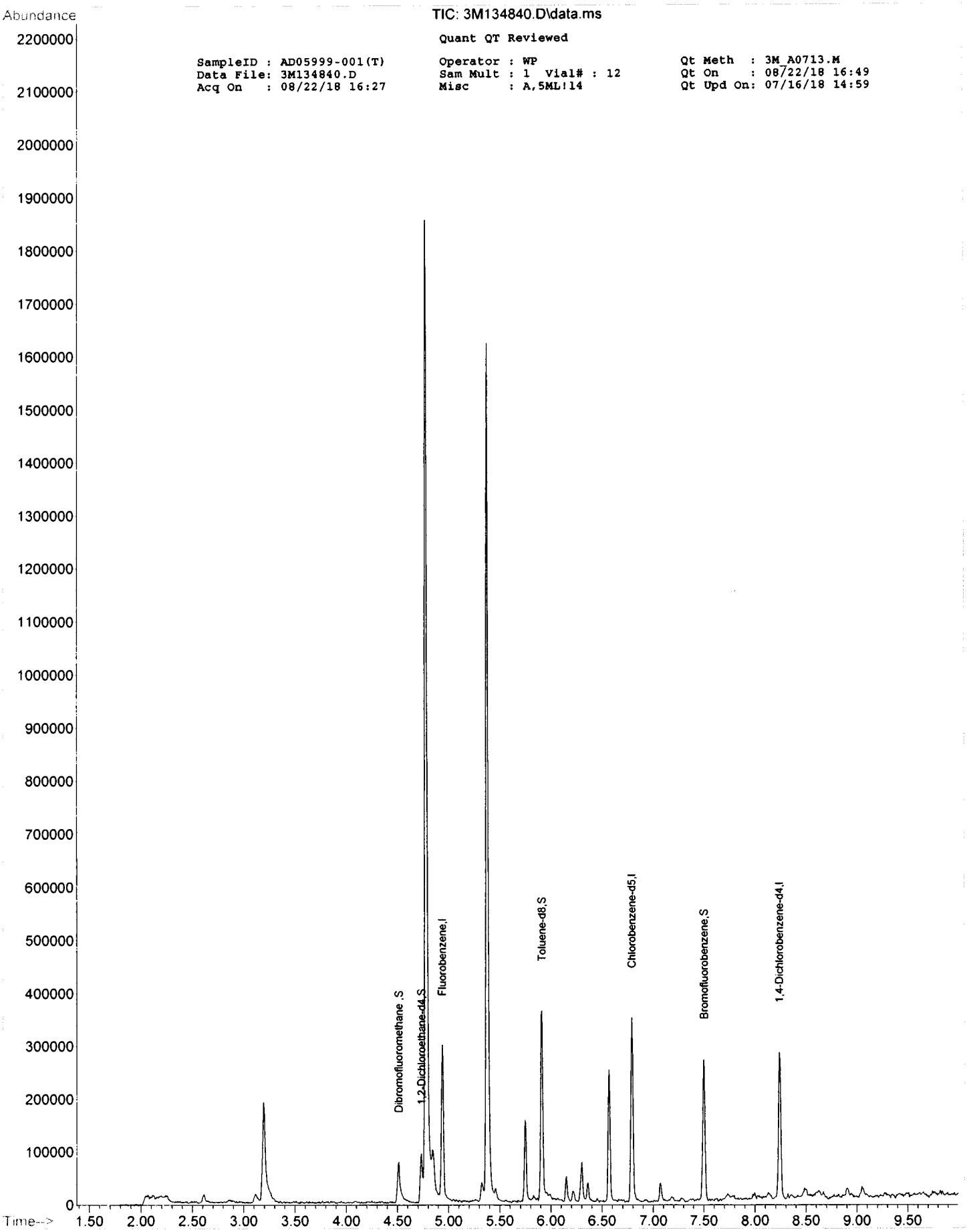
Abundance
TIC: 3M134840.D\data.ms
Quant QT Reviewed
SampleID : AD05999-001(T)
Data File: 3M134840.D
Acq On : 08/22/18 16:27
Operator : WP
Sam Mult : 1 Vial# : 12
Misc : A,5ML!14
Qt Meth : 3M_A0713.M
Qt On : 08/22/18 16:49
Qt Upd On: 07/16/18 14:59
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 3M134831.D
Analysis Date: 08/22/18 13:51
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
75-35-4	1,1-Dichloroethene	0.0010	U	108-90-7	Chlorobenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.00050	U	67-66-3	Chloroform	0.0010	U
106-46-7	1,4-Dichlorobenzene	0.0010	U	127-18-4	Tetrachloroethene	0.0010	U
78-93-3	2-Butanone	0.0010	U	79-01-6	Trichloroethene	0.0010	U
71-43-2	Benzene	0.00050	U	75-01-4	Vinyl Chloride	0.0010	U
56-23-5	Carbon Tetrachloride	0.0010	U				

Worksheet #: 476727

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT/LSC Reviewed) **8081617 0049**

SampleID : DAILY BLANK Operator : WP Qt Meth : 3M_A0713.M
Data File: 3M134831.D Sam Mult : 1 Vial# : 4 Qt On : 08/22/18 14:19
Acq On : 08/22/18 13:51 Misc : A,5ML Qt Upd On: 07/16/18 14:59

Data Path : G:\GcMsData\2018\GCMS_3\Data\08-22-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
4) Fluorobenzene	4.939	96	209886	30.00 ug/l	-0.01
52) Chlorobenzene-d5	6.789	117	182278	30.00 ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.237	152	83838	30.00 ug/l	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	4.513	111	55275	30.17 ug/l	-0.02
Spiked Amount 30.000			Recovery	= 100.57%	
39) 1,2-Dichloroethane-d4	4.729	67	44951	34.37 ug/l	-0.02
Spiked Amount 30.000			Recovery	= 114.57%	
66) Toluene-d8	5.912	98	222801	28.12 ug/l	0.00
Spiked Amount 30.000			Recovery	= 93.73%	
76) Bromofluorobenzene	7.504	174	80901	25.37 ug/l	0.00
Spiked Amount 30.000			Recovery	= 84.57%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

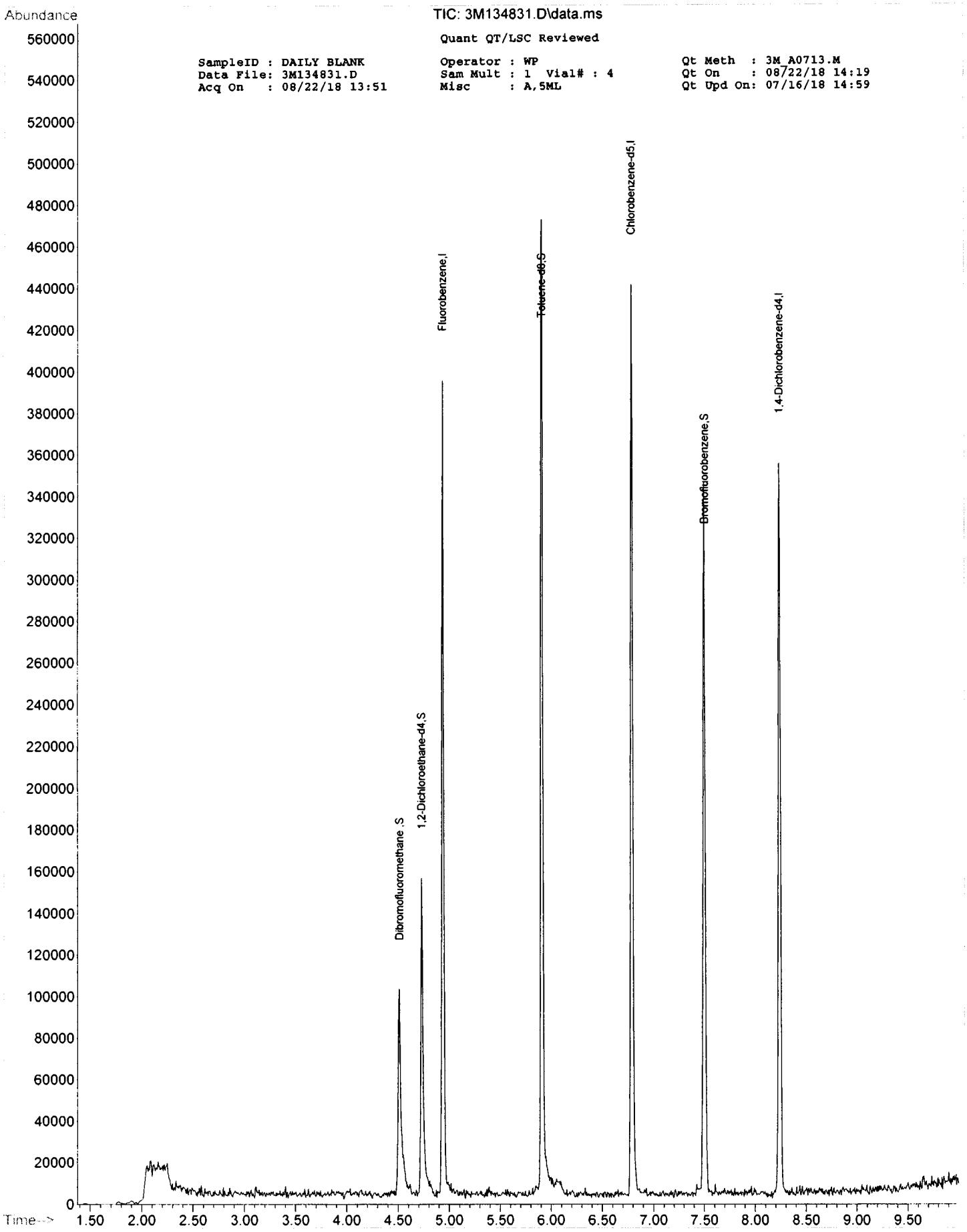
Abundance
TIC: 3M134831.D\data.ms
Quant QT/LSC Reviewed
SampleID : DAILY BLANK
Data File: 3M134831.D
Acq On : 08/22/18 13:51
Operator : WP
Sam Mult : 1 Vial# : 4
Misc : A,5ML
Qt Meth : 3M_A0713.M
Qt On : 08/22/18 14:19
Qt Upd On: 07/16/18 14:59
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: EF-1-V-285748(082118)
Client Id:
Data File: 3M134851.D
Analysis Date: 08/22/18 19:36
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
75-35-4	1,1-Dichloroethene	0.0010	U	108-90-7	Chlorobenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.00050	U	67-66-3	Chloroform	0.0010	U
106-46-7	1,4-Dichlorobenzene	0.0010	U	127-18-4	Tetrachloroethene	0.0010	U
78-93-3	2-Butanone	0.0010	U	79-01-6	Trichloroethene	0.0010	U
71-43-2	Benzene	0.00050	U	75-01-4	Vinyl Chloride	0.0010	U
56-23-5	Carbon Tetrachloride	0.0010	U				

Worksheet #: 476727

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

8081617 0052

SampleID : EF-1-V-285748(08211 Operator : WP Qt Meth : 3M_A0713.M
Data File: 3M134851.D Sam Mult : 1 Vial# : 18 Qt On : 08/22/18 20:14
Acq On : 08/22/18 19:36 Misc : A,5ML!19 Qt Upd On: 07/16/18 14:59

Data Path : G:\GcMsData\2018\GCMS_3\Data\08-22-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.934	96	244901	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.784	117	213965	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	8.232	152	98815	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.502	111	65806	30.78	ug/l	-0.03
Spiked Amount 30.000			Recovery = 102.60%			
39) 1,2-Dichloroethane-d4	4.724	67	48416	31.73	ug/l	-0.02
Spiked Amount 30.000			Recovery = 105.77%			
66) Toluene-d8	5.907	98	262796	28.26	ug/l	-0.01
Spiked Amount 30.000			Recovery = 94.20%			
76) Bromofluorobenzene	7.493	174	95862	25.51	ug/l	-0.01
Spiked Amount 30.000			Recovery = 85.03%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

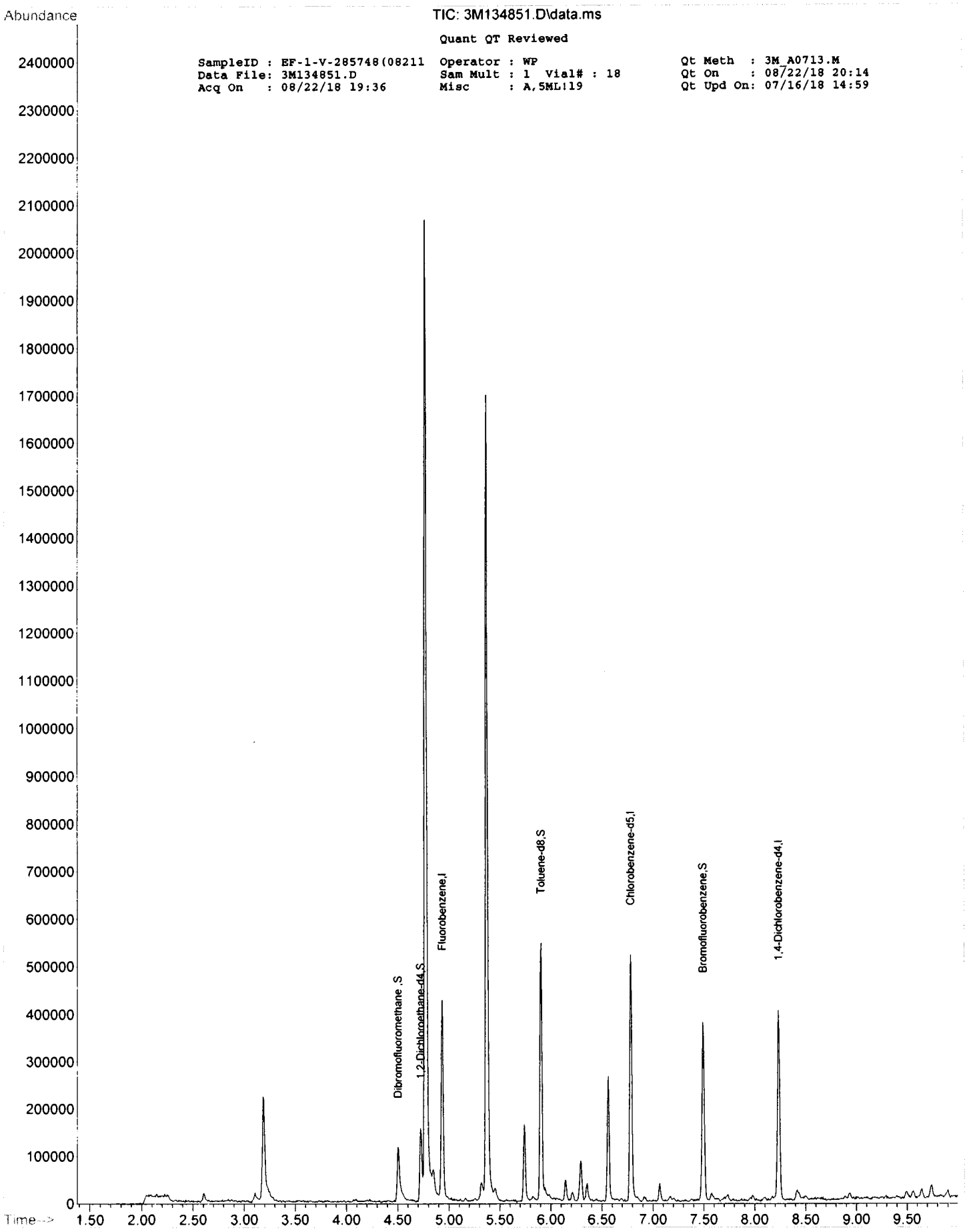
Abundance
TIC: 3M134851.D\data.ms
Quant QT Reviewed
SampleID : EF-1-V-285748(08211
Data File: 3M134851.D
Acq On : 08/22/18 19:36
Operator : WP
Sam Mult : 1 Vial# : 18
Misc : A,5ML!19
Qt Meth : 3M_A0713.M
Qt On : 08/22/18 20:14
Qt Upd On: 07/16/18 14:59
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8260C

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
3M134831.D	DAILY BLANK	A	08/22/18 13:51	1		101	115	94	85		
3M134851.D	EF-1-V-285748(082118)	A	08/22/18 19:36	1		103	106	94	85		
3M134840.D	AD05999-001(T)	A	08/22/18 16:27	1		98	96	90	84		
3M134837.D	MBS70993	A	08/22/18 15:35	1		106	106	91	93		
3M134839.D	AD06006-001(T)	A	08/22/18 16:10	1		92	103	91	93		
3M134849.D	AD06006-001(T:MS)	A	08/22/18 19:01	1		107	99	95	92		
3M134850.D	AD06006-001(T:MSD)	A	08/22/18 19:19	1		99	97	91	91		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260C

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	73-131
S2=1,2-Dichloroethane-d4	30	78-128
S3=Toluene-d8	30	79-111
S4=Bromofluorobenzene	30	82-112

Form3
Recovery Data Laboratory Limits
QC Batch: MBS70993

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M134837.D	MBS70993	8/22/2018 3:35:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	27.1855	0	20	136	50	150
Dichlorodifluoromethane	1	32.392	0	20	162*	50	150
Chloromethane	1	31.307	0	20	157*	50	150
Bromomethane	1	14.2932	0	20	71	50	150
Vinyl Chloride	1	28.2416	0	20	141	50	150
Chloroethane	1	15.4966	0	20	77	50	150
Trichlorofluoromethane	1	15.1465	0	20	76	50	150
Ethyl ether	1	17.3645	0	20	87	50	150
Furan	1	17.3119	0	20	87	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	19.2158	0	20	96	50	150
Methylene Chloride	1	20.4033	0	20	102	70	130
Acrolein	1	104.8688	0	100	105	50	150
Acrylonitrile	1	20.5741	0	20	103	50	150
Iodomethane	1	18.3188	0	20	92	50	150
Acetone	1	108.3179	0	100	108	50	150
Carbon Disulfide	1	24.6555	0	20	123	50	150
t-Butyl Alcohol	1	71.8048	0	100	72	50	150
n-Hexane	1	22.9405	0	20	115	70	130
Di-isopropyl-ether	1	20.0923	0	20	100	70	130
1,1-Dichloroethene	1	20.215	0	20	101	70	130
Methyl Acetate	1	17.8462	0	20	89	50	150
Methyl-t-butyl ether	1	21.1392	0	20	106	70	130
1,1-Dichloroethane	1	20.0269	0	20	100	70	130
trans-1,2-Dichloroethene	1	18.1868	0	20	91	70	130
Ethyl-t-butyl ether	1	19.9594	0	20	100	70	130
cis-1,2-Dichloroethene	1	21.5575	0	20	108	70	130
Bromochloromethane	1	22.7558	0	20	114	70	130
2,2-Dichloropropane	1	22.6199	0	20	113	70	130
Ethyl acetate	1	22.5657	0	20	113	50	150
1,4-Dioxane	1	1069.342	0	1000	107	50	150
1,1-Dichloropropene	1	24.1299	0	20	121	70	130
Chloroform	1	21.3755	0	20	107	70	130
Cyclohexane	1	17.5935	0	20	88	70	130
1,2-Dichloroethane	1	21.5199	0	20	108	70	130
2-Butanone	1	19.9776	0	20	100	50	150
1,1,1-Trichloroethane	1	19.9441	0	20	100	70	130
Carbon Tetrachloride	1	20.3116	0	20	102	50	150
Vinyl Acetate	1	20.1761	0	20	101	50	150
Bromodichloromethane	1	18.9768	0	20	95	70	130
Methylcyclohexane	1	21.4239	0	20	107	70	130
Dibromomethane	1	17.9557	0	20	90	70	130
1,2-Dichloropropane	1	22.2192	0	20	111	70	130
Trichloroethene	1	21.8866	0	20	109	70	130
Benzene	1	22.1699	0	20	111	70	130
tert-Amyl methyl ether	1	19.9329	0	20	100	70	130
Iso-propylacetate	1	17.6636	0	20	88	70	130
Methyl methacrylate	1	17.1984	0	20	86	70	130
Dibromochloromethane	1	16.2133	0	20	81	70	130
2-Chloroethylvinylether	1	17.378	0	20	87	70	130
cis-1,3-Dichloropropene	1	17.4469	0	20	87	70	130
trans-1,3-Dichloropropene	1	17.8249	0	20	89	70	130
Ethyl methacrylate	1	16.8906	0	20	84	70	130
1,1,2-Trichloroethane	1	17.0343	0	20	85	70	130
1,2-Dibromoethane	1	18.1263	0	20	91	70	130
1,3-Dichloropropane	1	19.5236	0	20	98	70	130
4-Methyl-2-Pentanone	1	17.443	0	20	87	50	150
2-Hexanone	1	16.7839	0	20	84	50	150
Tetrachloroethene	1	17.9357	0	20	90	50	150
Toluene	1	18.7313	0	20	94	70	130
1,1,1,2-Tetrachloroethane	1	19.355	0	20	97	70	130
Chlorobenzene	1	17.6816	0	20	88	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS70993

n-Butyl acrylate	1	17.046	0	20	85	70	130
n-Amyl acetate	1	18.9795	0	20	95	70	130
Bromoform	1	17.2341	0	20	86	70	130
Ethylbenzene	1	21.3045	0	20	107	70	130
1,1,2,2-Tetrachloroethane	1	19.8952	0	20	99	70	130
Styrene	1	21.4866	0	20	107	70	130
m&p-Xylenes	1	43.9273	0	40	110	70	130
o-Xylene	1	21.7296	0	20	109	70	130
trans-1,4-Dichloro-2-butene	1	21.7711	0	20	109	50	150
1,3-Dichlorobenzene	1	20.4311	0	20	102	70	130
1,4-Dichlorobenzene	1	19.9839	0	20	100	70	130
1,2-Dichlorobenzene	1	19.2985	0	20	96	70	130
Isopropylbenzene	1	21.6068	0	20	108	70	130
Cyclohexanone	1	105.253	0	100	105	50	150
Camphene	1	22.3489	0	20	112	70	130
1,2,3-Trichloropropane	1	19.8712	0	20	99	70	130
2-Chlorotoluene	1	23.1317	0	20	116	70	130
p-Ethyltoluene	1	21.4178	0	20	107	70	130
4-Chlorotoluene	1	19.5171	0	20	98	70	130
n-Propylbenzene	1	23.8395	0	20	119	70	130
Bromobenzene	1	20.2086	0	20	101	70	130
1,3,5-Trimethylbenzene	1	22.8247	0	20	114	70	130
Butyl methacrylate	1	22.2536	0	20	111	70	130
t-Butylbenzene	1	22.2777	0	20	111	70	130
1,2,4-Trimethylbenzene	1	22.8421	0	20	114	70	130
sec-Butylbenzene	1	22.6492	0	20	113	70	130
4-Isopropyltoluene	1	23.8051	0	20	119	70	130
n-Butylbenzene	1	24.594	0	20	123	70	130
p-Diethylbenzene	1	22.6925	0	20	113	70	130
1,2,4,5-Tetramethylbenzene	1	17.9591	0	20	90	70	130
1,2-Dibromo-3-Chloropropane	1	17.2974	0	20	86	50	150
Camphor	1	207.4034	0	200	104	20	150
Hexachlorobutadiene	1	23.543	0	20	118	50	150
1,2,4-Trichlorobenzene	1	20.4855	0	20	102	70	130
1,2,3-Trichlorobenzene	1	20.7128	0	20	104	70	130
Naphthalene	1	19.4964	0	20	97	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS70993

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M134849.D	AD06006-001(T:MS)	8/22/2018 7:01:00 PM
Non Spike(If applicable):	3M134839.D	AD06006-001(T)	8/22/2018 4:10:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	22.6652	0	20	113	50	150
Dichlorodifluoromethane	1	44.231	0	20	221*	50	150
Chloromethane	1	29.9385	0	20	150	50	150
Bromomethane	1	28.2127	0	20	141	50	150
Vinyl Chloride	1	27.2391	0	20	136	50	150
Chloroethane	1	24.7812	0	20	124	50	150
Trichlorofluoromethane	1	17.412	0	20	87	50	150
Ethyl ether	1	21.1367	0	20	106	50	150
Furan	1	18.5994	0	20	93	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	24.8152	0	20	124	50	150
Methylene Chloride	1	65.6708	0	20	328*	70	130
Acrolein	1	43.824	0	100	44*	50	150
Acrylonitrile	1	19.8269	0	20	99	50	150
Iodomethane	1	24.2332	0	20	121	50	150
Acetone	1	107.4245	0	100	107	50	150
Carbon Disulfide	1	25.3488	0	20	127	50	150
t-Butyl Alcohol	1	63.7768	0	100	64	50	150
n-Hexane	1	23.5213	0	20	118	70	130
Di-isopropyl-ether	1	19.9717	0	20	100	70	130
1,1-Dichloroethene	1	19.5333	0	20	98	70	130
Methyl Acetate	1	8.9175	0	20	45*	50	150
Methyl-t-butyl ether	1	19.0784	0	20	95	70	130
1,1-Dichloroethane	1	16.312	0	20	82	70	130
trans-1,2-Dichloroethene	1	21.9621	0	20	110	70	130
Ethyl-t-butyl ether	1	18.5357	0	20	93	70	130
cis-1,2-Dichloroethene	1	22.2442	0	20	111	70	130
Bromochloromethane	1	16.4838	0	20	82	70	130
2,2-Dichloropropane	1	22.8178	0	20	114	70	130
Ethyl acetate	1	16.7808	0	20	84	50	150
1,4-Dioxane	1	736.7535	0	1000	74	50	150
1,1-Dichloropropene	1	23.5275	0	20	118	70	130
Chloroform	1	22.3523	0	20	112	70	130
Cyclohexane	1	21.5052	0	20	108	70	130
1,2-Dichloroethane	1	21.851	0	20	109	70	130
2-Butanone	1	16.981	0	20	85	50	150
1,1,1-Trichloroethane	1	21.4352	0	20	107	70	130
Carbon Tetrachloride	1	24.6198	0	20	123	50	150
Vinyl Acetate	1	13.4634	0	20	67	50	150
Bromodichloromethane	1	20.7498	0	20	104	70	130
Methylcyclohexane	1	22.9002	0	20	115	70	130
Dibromomethane	1	19.2626	0	20	96	70	130
1,2-Dichloropropane	1	21.621	0	20	108	70	130
Trichloroethene	1	39.0936	0	20	195*	70	130
Benzene	1	23.3642	0	20	117	70	130
tert-Amyl methyl ether	1	19.9888	0	20	100	70	130
Iso-propylacetate	1	19.2833	0	20	96	70	130
Methyl methacrylate	1	13.4226	0	20	67*	70	130
Dibromochloromethane	1	18.0628	0	20	90	70	130
2-Chloroethylvinylether	1	16.8775	0	20	84	70	130
cis-1,3-Dichloropropene	1	16.5072	0	20	83	70	130
trans-1,3-Dichloropropene	1	16.873	0	20	84	70	130
Ethyl methacrylate	1	13.7287	0	20	69*	70	130
1,1,2-Trichloroethane	1	17.2324	0	20	86	70	130
1,2-Dibromoethane	1	17.5039	0	20	88	70	130
1,3-Dichloropropane	1	18.6256	0	20	93	70	130
4-Methyl-2-Pentanone	1	14.9457	0	20	75	50	150
2-Hexanone	1	18.9472	0	20	95	50	150
Tetrachloroethene	1	20.8719	0	20	104	50	150
Toluene	1	20.3738	0	20	102	70	130
1,1,1,2-Tetrachloroethane	1	20.1137	0	20	101	70	130
Chlorobenzene	1	18.5715	0	20	93	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS70993

n-Butyl acrylate	1	11.4067	0	20	57*	70	130
n-Amyl acetate	1	13.4376	0	20	67*	70	130
Bromoform	1	16.1006	0	20	81	70	130
Ethylbenzene	1	19.7282	0	20	99	70	130
1,1,2,2-Tetrachloroethane	1	1.6575	0	20	8.3*	70	130
Styrene	1	19.8814	0	20	99	70	130
m&p-Xylenes	1	42.9695	0	40	107	70	130
o-Xylene	1	22.5996	0	20	113	70	130
trans-1,4-Dichloro-2-butene	1	18.6116	0	20	93	50	150
1,3-Dichlorobenzene	1	20.3803	0	20	102	70	130
1,4-Dichlorobenzene	1	19.8517	0	20	99	70	130
1,2-Dichlorobenzene	1	19.207	0	20	96	70	130
Isopropylbenzene	1	20.852	0	20	104	70	130
Cyclohexanone	1	91.3364	0	100	91	50	150
Camphene	1	20.8159	0	20	104	70	130
1,2,3-Trichloropropane	1	19.4175	0	20	97	70	130
2-Chlorotoluene	1	21.1279	0	20	106	70	130
p-Ethyltoluene	1	22.0208	0	20	110	70	130
4-Chlorotoluene	1	22.5092	0	20	113	70	130
n-Propylbenzene	1	22.8785	0	20	114	70	130
Bromobenzene	1	19.5985	0	20	98	70	130
1,3,5-Trimethylbenzene	1	24.2659	0	20	121	70	130
Butyl methacrylate	1	16.5452	0	20	83	70	130
t-Butylbenzene	1	21.1626	0	20	106	70	130
1,2,4-Trimethylbenzene	1	23.7791	0	20	119	70	130
sec-Butylbenzene	1	21.6484	0	20	108	70	130
4-Isopropyltoluene	1	23.0301	0	20	115	70	130
n-Butylbenzene	1	24.8108	0	20	124	70	130
p-Diethylbenzene	1	23.6301	0	20	118	70	130
1,2,4,5-Tetramethylbenzene	1	20.5175	0	20	103	70	130
1,2-Dibromo-3-Chloropropane	1	18.0248	0	20	90	50	150
Camphor	1	184.0101	0	200	92	20	150
Hexachlorobutadiene	1	19.5984	0	20	98	50	150
1,2,4-Trichlorobenzene	1	20.9784	0	20	105	70	130
1,2,3-Trichlorobenzene	1	20.5683	0	20	103	70	130
Naphthalene	1	17.0543	0	20	85	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS70993

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M134850.D	AD06006-001(T:MSD)	8/22/2018 7:19:00 PM
Non Spike(If applicable):	3M134839.D	AD06006-001(T)	8/22/2018 4:10:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	20.066	0	20	100	50	150
Dichlorodifluoromethane	1	39.0242	0	20	195*	50	150
Chloromethane	1	24.7621	0	20	124	50	150
Bromomethane	1	25.9955	0	20	130	50	150
Vinyl Chloride	1	27.6917	0	20	138	50	150
Chloroethane	1	19.8363	0	20	99	50	150
Trichlorofluoromethane	1	16.3702	0	20	82	50	150
Ethyl ether	1	18.3949	0	20	92	50	150
Furan	1	15.998	0	20	80	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.3766	0	20	112	50	150
Methylene Chloride	1	58.1619	0	20	291*	70	130
Acrolein	1	33.6142	0	100	34*	50	150
Acrylonitrile	1	17.1687	0	20	86	50	150
Iodomethane	1	20.9294	0	20	105	50	150
Acetone	1	116.0941	0	100	116	50	150
Carbon Disulfide	1	24.2597	0	20	121	50	150
t-Butyl Alcohol	1	71.9261	0	100	72	50	150
n-Hexane	1	21.8713	0	20	109	70	130
Di-isopropyl-ether	1	18.0719	0	20	90	70	130
1,1-Dichloroethene	1	20.3885	0	20	102	70	130
Methyl Acetate	1	5.9833	0	20	30*	50	150
Methyl-t-butyl ether	1	17.9897	0	20	90	70	130
1,1-Dichloroethane	1	13.7187	0	20	69*	70	130
trans-1,2-Dichloroethene	1	18.9076	0	20	95	70	130
Ethyl-t-butyl ether	1	17.4973	0	20	87	70	130
cis-1,2-Dichloroethene	1	18.7184	0	20	94	70	130
Bromochloromethane	1	14.8535	0	20	74	70	130
2,2-Dichloropropane	1	20.6382	0	20	103	70	130
Ethyl acetate	1	14.5963	0	20	73	50	150
1,4-Dioxane	1	944.2716	0	1000	94	50	150
1,1-Dichloropropene	1	21.368	0	20	107	70	130
Chloroform	1	18.933	0	20	95	70	130
Cyclohexane	1	18.0213	0	20	90	70	130
1,2-Dichloroethane	1	19.4501	0	20	97	70	130
2-Butanone	1	20.5253	0	20	103	50	150
1,1,1-Trichloroethane	1	19.5485	0	20	98	70	130
Carbon Tetrachloride	1	21.2724	0	20	106	50	150
Vinyl Acetate	1	12.0675	0	20	60	50	150
Bromodichloromethane	1	20.1894	0	20	101	70	130
Methylcyclohexane	1	18.8545	0	20	94	70	130
Dibromomethane	1	18.2324	0	20	91	70	130
1,2-Dichloropropane	1	20.0119	0	20	100	70	130
Trichloroethene	1	37.2769	0	20	186*	70	130
Benzene	1	21.2493	0	20	106	70	130
tert-Amyl methyl ether	1	18.1508	0	20	91	70	130
Iso-propylacetate	1	17.6494	0	20	88	70	130
Methyl methacrylate	1	12.2185	0	20	61*	70	130
Dibromochloromethane	1	15.9192	0	20	80	70	130
2-Chloroethylvinylether	1	13.5281	0	20	68*	70	130
cis-1,3-Dichloropropene	1	15.9895	0	20	80	70	130
trans-1,3-Dichloropropene	1	16.1989	0	20	81	70	130
Ethyl methacrylate	1	12.2712	0	20	61*	70	130
1,1,2-Trichloroethane	1	15.9042	0	20	80	70	130
1,2-Dibromoethane	1	16.6605	0	20	83	70	130
1,3-Dichloropropane	1	17.3267	0	20	87	70	130
4-Methyl-2-Pentanone	1	15.2333	0	20	76	50	150
2-Hexanone	1	16.2549	0	20	81	50	150
Tetrachloroethene	1	19.4785	0	20	97	50	150
Toluene	1	18.1877	0	20	91	70	130
1,1,1,2-Tetrachloroethane	1	19.04	0	20	95	70	130
Chlorobenzene	1	16.926	0	20	85	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS70993

n-Butyl acrylate	1	9.3357	0	20	47*	70	130
n-Amyl acetate	1	10.2759	0	20	51*	70	130
Bromoform	1	15.6346	0	20	78	70	130
Ethylbenzene	1	22.5838	0	20	113	70	130
1,1,2,2-Tetrachloroethane	1	0	0	20	0*	70	130
Styrene	1	19.0058	0	20	95	70	130
m&p-Xylenes	1	39.5373	0	40	99	70	130
o-Xylene	1	19.8183	0	20	99	70	130
trans-1,4-Dichloro-2-butene	1	15.9844	0	20	80	50	150
1,3-Dichlorobenzene	1	17.5319	0	20	88	70	130
1,4-Dichlorobenzene	1	17.8658	0	20	89	70	130
1,2-Dichlorobenzene	1	17.9907	0	20	90	70	130
Isopropylbenzene	1	18.3504	0	20	92	70	130
Cyclohexanone	1	90.742	0	100	91	50	150
Camphene	1	18.9935	0	20	95	70	130
1,2,3-Trichloropropane	1	17.048	0	20	85	70	130
2-Chlorotoluene	1	19.2832	0	20	96	70	130
p-Ethyltoluene	1	17.8598	0	20	89	70	130
4-Chlorotoluene	1	18.707	0	20	94	70	130
n-Propylbenzene	1	20.1094	0	20	101	70	130
Bromobenzene	1	17.8895	0	20	89	70	130
1,3,5-Trimethylbenzene	1	24.6396	0	20	123	70	130
Butyl methacrylate	1	15.1435	0	20	76	70	130
t-Butylbenzene	1	19.8401	0	20	99	70	130
1,2,4-Trimethylbenzene	1	22.1853	0	20	111	70	130
sec-Butylbenzene	1	19.9153	0	20	100	70	130
4-Isopropyltoluene	1	20.875	0	20	104	70	130
n-Butylbenzene	1	23.4368	0	20	117	70	130
p-Diethylbenzene	1	21.2673	0	20	106	70	130
1,2,4,5-Tetramethylbenzene	1	21.4128	0	20	107	70	130
1,2-Dibromo-3-Chloropropane	1	17.5751	0	20	88	50	150
Camphor	1	181.0298	0	200	91	20	150
Hexachlorobutadiene	1	20.566	0	20	103	50	150
1,2,4-Trichlorobenzene	1	21.96	0	20	110	70	130
1,2,3-Trichlorobenzene	1	20.9538	0	20	105	70	130
Naphthalene	1	17.8588	0	20	89	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: MBS70993

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M134850.D	AD06006-001(T:MSD)	8/22/2018 7:19:00 PM
Duplicate(If applicable):	3M134849.D	AD06006-001(T:MS)	8/22/2018 7:01:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	20.066	22.6652	12	30
Dichlorodifluoromethane	1	39.0242	44.231	13	30
Chloromethane	1	24.7621	29.9385	19	30
Bromomethane	1	25.9955	28.2127	8.2	30
Vinyl Chloride	1	27.6917	27.2391	1.6	40
Chloroethane	1	19.8363	24.7812	22	30
Trichlorofluoromethane	1	16.3702	17.412	6.2	30
Ethyl ether	1	18.3949	21.1367	14	30
Furan	1	15.998	18.5994	15	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.3766	24.8152	10	30
Methylene Chloride	1	58.1619	65.6708	12	30
Acrolein	1	33.6142	43.824	26	30
Acrylonitrile	1	17.1687	19.8269	14	30
Iodomethane	1	20.9294	24.2332	15	30
Acetone	1	116.0941	107.4245	7.8	30
Carbon Disulfide	1	24.2597	25.3488	4.4	30
t-Butyl Alcohol	1	71.9261	63.7768	12	30
n-Hexane	1	21.8713	23.5213	7.3	30
Di-isopropyl-ether	1	18.0719	19.9717	10	30
1,1-Dichloroethene	1	20.3885	19.5333	4.3	40
Methyl Acetate	1	5.9833	8.9175	39*	30
Methyl-t-butyl ether	1	17.9897	19.0784	5.9	30
1,1-Dichloroethane	1	13.7187	16.312	17	40
trans-1,2-Dichloroethene	1	18.9076	21.9621	15	30
Ethyl-t-butyl ether	1	17.4973	18.5357	5.8	30
cis-1,2-Dichloroethene	1	18.7184	22.2442	17	30
Bromochloromethane	1	14.8535	16.4838	10	30
2,2-Dichloropropane	1	20.6382	22.8178	10	30
Ethyl acetate	1	14.5963	16.7808	14	30
1,4-Dioxane	1	944.2716	736.7535	25	30
1,1-Dichloropropene	1	21.368	23.5275	9.6	30
Chloroform	1	18.933	22.3523	17	40
Cyclohexane	1	18.0213	21.5052	18	30
1,2-Dichloroethane	1	19.4501	21.851	12	40
2-Butanone	1	20.5253	16.981	19	40
1,1,1-Trichloroethane	1	19.5485	21.4352	9.2	30
Carbon Tetrachloride	1	21.2724	24.6198	15	40
Vinyl Acetate	1	12.0675	13.4634	11	30
Bromodichloromethane	1	20.1894	20.7498	2.7	30
Methylcyclohexane	1	18.8545	22.9002	19	30
Dibromomethane	1	18.2324	19.2626	5.5	30
1,2-Dichloropropane	1	20.0119	21.621	7.7	30
Trichloroethene	1	37.2769	39.0936	4.8	40
Benzene	1	21.2493	23.3642	9.5	40
tert-Amyl methyl ether	1	18.1508	19.9888	9.6	30
Iso-propylacetate	1	17.6494	19.2833	8.8	30
Methyl methacrylate	1	12.2185	13.4226	9.4	30
Dibromochloromethane	1	15.9192	18.0628	13	30
2-Chloroethylvinylether	1	13.5281	16.8775	22	30
cis-1,3-Dichloropropene	1	15.9895	16.5072	3.2	30
trans-1,3-Dichloropropene	1	16.1989	16.873	4.1	30
Ethyl methacrylate	1	12.2712	13.7287	11	30
1,1,2-Trichloroethane	1	15.9042	17.2324	8	30
1,2-Dibromoethane	1	16.6605	17.5039	4.9	30
1,3-Dichloropropane	1	17.3267	18.6256	7.2	30
4-Methyl-2-Pentanone	1	15.2333	14.9457	1.9	30
2-Hexanone	1	16.2549	18.9472	15	30
Tetrachloroethene	1	19.4785	20.8719	6.9	40
Toluene	1	18.1877	20.3738	11	40
1,1,1,2-Tetrachloroethane	1	19.04	20.1137	5.5	30
Chlorobenzene	1	16.926	18.5715	9.3	40
n-Butyl acrylate	1	9.3357	11.4067	20	30
n-Amyl acetate	1	10.2759	13.4376	27	30

Form3
RPD Data Laboratory Limits
QC Batch: MBS70993

Bromoform	1	15.6346	16.1006	2.9	30
Ethylbenzene	1	22.5838	19.7282	13	30
1,1,2,2-Tetrachloroethane	1	0	1.6575	200*	30
Styrene	1	19.0058	19.8814	4.5	30
m&p-Xylenes	1	39.5373	42.9695	8.3	30
o-Xylene	1	19.8183	22.5996	13	30
trans-1,4-Dichloro-2-butene	1	15.9844	18.6116	15	30
1,3-Dichlorobenzene	1	17.5319	20.3803	15	30
1,4-Dichlorobenzene	1	17.8658	19.8517	11	40
1,2-Dichlorobenzene	1	17.9907	19.207	6.5	40
Isopropylbenzene	1	18.3504	20.852	13	30
Cyclohexanone	1	90.742	91.3364	0.65	30
Camphene	1	18.9935	20.8159	9.2	30
1,2,3-Trichloropropane	1	17.048	19.4175	13	30
2-Chlorotoluene	1	19.2832	21.1279	9.1	30
p-Ethyltoluene	1	17.8598	22.0208	21	30
4-Chlorotoluene	1	18.707	22.5092	18	30
n-Propylbenzene	1	20.1094	22.8785	13	40
Bromobenzene	1	17.8895	19.5985	9.1	30
1,3,5-Trimethylbenzene	1	24.6396	24.2659	1.5	30
Butyl methacrylate	1	15.1435	16.5452	8.8	30
t-Butylbenzene	1	19.8401	21.1626	6.5	30
1,2,4-Trimethylbenzene	1	22.1853	23.7791	6.9	30
sec-Butylbenzene	1	19.9153	21.6484	8.3	40
4-Isopropyltoluene	1	20.875	23.0301	9.8	30
n-Butylbenzene	1	23.4368	24.8108	5.7	30
p-Diethylbenzene	1	21.2673	23.6301	11	30
1,2,4,5-Tetramethylbenzene	1	21.4128	20.5175	4.3	30
1,2-Dibromo-3-Chloropropane	1	17.5751	18.0248	2.5	30
Camphor	1	181.0298	184.0101	1.6	30
Hexachlorobutadiene	1	20.566	19.5984	4.8	30
1,2,4-Trichlorobenzene	1	21.96	20.9784	4.6	30
1,2,3-Trichlorobenzene	1	20.9538	20.5683	1.9	30
Naphthalene	1	17.8588	17.0543	4.6	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 3M134831.D
Matrix: Aqueous

Blank Analysis Date: 08/22/18 13:51
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260C

Sample Number	Data File	Analysis Date
AD05999-001(T)	3M134840.D	08/22/18 16:27
EF-1-V-285748(082	3M134851.D	08/22/18 19:36
AD06006-001(T:M	3M134850.D	08/22/18 19:19
AD06006-001(T:M	3M134849.D	08/22/18 19:01
AD06006-001(T)	3M134839.D	08/22/18 16:10
MBS70993	3M134837.D	08/22/18 15:35

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 3

Data File: 3M132618.D
Analysis Date: 07/13/18 19:52
Method: EPA 8260C

Tune Scan/Time Range: Scan 34

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	18.7	11574	PASS
75	95	30	60	44.6	27616	PASS
95	95	100	100	100.0	61856	PASS
96	95	5	9	7.0	4317	PASS
173	174	0.00	2	1.1	563	PASS
174	95	50	100	84.0	51952	PASS
175	174	5	9	8.3	4335	PASS
176	174	95	101	96.7	50232	PASS
177	176	5	9	7.7	3883	PASS

Data File	Sample Number	Analysis Date:
3M132620.D	CAL @ 0.5 PPB	07/13/18 20:24
3M132621.D	CAL @ 1 PPB	07/13/18 20:41
3M132622.D	CAL @ 5 PPB	07/13/18 20:58
3M132623.D	CAL @ 10 PPB	07/13/18 21:14
3M132624.D	CAL @ 20 PPB	07/13/18 21:31
3M132625.D	CAL @ 500 PPB	07/13/18 21:48
3M132628.D	CAL @ 250 PPB	07/13/18 22:37
3M132631.D	CAL @ 100 PPB	07/13/18 23:28
3M132634.D	CAL @ 50 PPB	07/14/18 00:22
3M132637.D	ICV	07/14/18 01:13
3M132643.D	DAILY BLANK	07/14/18 02:55
3M132644.D	AD05312-001	07/14/18 03:12
3M132645.D	AD05377-001	07/14/18 03:29
3M132646.D	AD05357-003	07/14/18 03:45
3M132647.D	AD05357-005	07/14/18 04:03
3M132648.D	MBS70502	07/14/18 04:19
3M132649.D	AD05357-008(MS)	07/14/18 04:36
3M132650.D	AD05357-008(MSD	07/14/18 04:53
3M132651.D	AD05357-008	07/14/18 05:10
3M132652.D	AD05357-002	07/14/18 05:27
3M132653.D	AD05357-001	07/14/18 05:44
3M132654.D	AD05357-006	07/14/18 06:01
3M132655.D	AD05357-004	07/14/18 06:18
3M132656.D	AD05357-007	07/14/18 06:35
3M132657.D	MBS70503	07/14/18 06:51

8081617 0065

Data Path : G:\GcMsData\2018\GCMS_3\Data\07-13-18\
Data File : 3M132618.D
Acq On : 13 Jul 2018 19:52
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 26 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2018\GCMS_3\MethodQt\3M_A0713.M
Title : @GCMS_3,ug,624,8260
Last Update : Mon Jul 16 14:57:47 2018

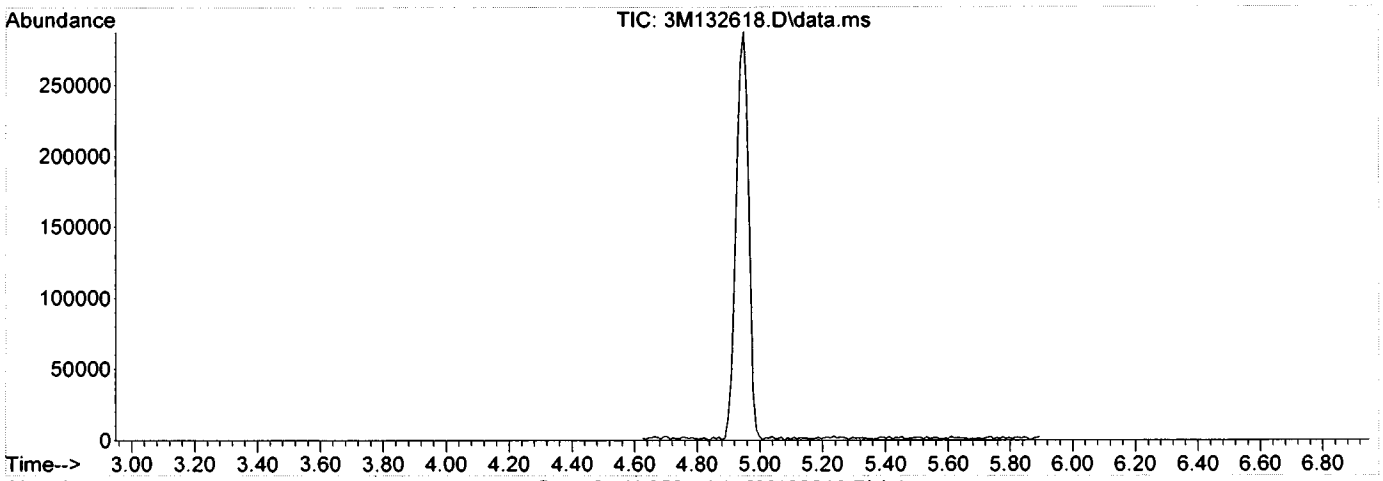

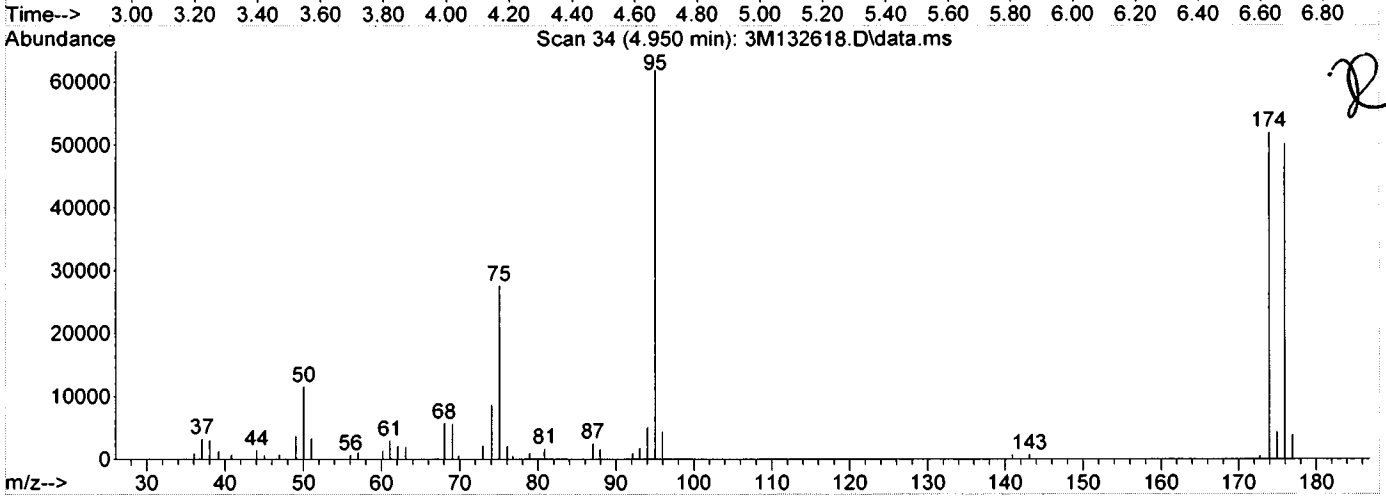

Spectrum Information: Scan 34

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	11574	PASS
75	95	30	60	44.6	27616	PASS
95	95	100	100	100.0	61856	PASS
96	95	5	9	7.0	4317	PASS
173	174	0.00	2	1.1	563	PASS
174	95	50	100	84.0	51952	PASS
175	174	5	9	8.3	4335	PASS
176	174	95	101	96.7	50232	PASS
177	176	5	9	7.7	3883	PASS

Form 5

8081617 0066

Tune Name: BFB TUNE
Instrument: GCMS 3

Data File: 3M134826.D
Analysis Date: 08/22/18 12:30
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.913 to 4.992 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	22.1	6132	PASS
75	95	30	60	48.6	13487	PASS
95	95	100	100	100.0	27743	PASS
96	95	5	9	7.3	2021	PASS
173	174	0.00	2	0.3	60	PASS
174	95	50	100	76.4	21201	PASS
175	174	5	9	7.5	1593	PASS
176	174	95	101	97.0	20575	PASS
177	176	5	9	6.9	1420	PASS

Data File	Sample Number	Analysis Date:
3M134827.D	20 PPB	08/22/18 12:39
3M134828.D	CAL @ 20 PPB	08/22/18 12:56
3M134829.D	BLK	08/22/18 13:17
3M134830.D	DAILY BLANK	08/22/18 13:34
3M134831.D	DAILY BLANK	08/22/18 13:51
3M134832.D	AD06007-003	08/22/18 14:09
3M134833.D	AD06026-002	08/22/18 14:26
3M134834.D	MBS70992	08/22/18 14:43
3M134835.D	AD06069-001(MS)	08/22/18 15:00
3M134836.D	AD06069-001(MSD	08/22/18 15:18
3M134837.D	MBS70993	08/22/18 15:35
3M134838.D	AD06069-001	08/22/18 15:53
3M134839.D	AD06006-001(T)	08/22/18 16:10
3M134840.D	AD05999-001(T)	08/22/18 16:27
3M134841.D	AD06064-001(T)	08/22/18 16:45
3M134842.D	AD06064-002(T)	08/22/18 17:02
3M134843.D	AD06064-003(T)	08/22/18 17:19
3M134844.D	AD06027-001(T)	08/22/18 17:36
3M134845.D	AD05997-004(5X)	08/22/18 17:53
3M134846.D	BLK	08/22/18 18:08
3M134847.D	AD05997-005(10X)	08/22/18 18:27
3M134848.D	BLK	08/22/18 18:44
3M134849.D	AD06006-001(T:M	08/22/18 19:01
3M134850.D	AD06006-001(T:M	08/22/18 19:19
3M134851.D	EF-1-V-285748(082	08/22/18 19:36
3M134852.D	AD06079-003	08/22/18 19:53
3M134853.D	AD06079-004	08/22/18 20:10
3M134854.D	AD06079-003	08/22/18 20:27
3M134855.D	AD06077-001	08/22/18 20:45
3M134856.D	EF-1-285748(0821	08/22/18 21:02
3M134857.D	AD05962-017(T)	08/22/18 21:20
3M134858.D	AD05962-018(T)	08/22/18 21:37
3M134859.D	AD05962-019(T)	08/22/18 21:54
3M134860.D	AD05962-020(T)	08/22/18 22:08
3M134861.D	AD05962-021(T)	08/22/18 22:25
3M134862.D	AD05962-022(T)	08/22/18 22:43
3M134863.D	AD05962-023(T)	08/22/18 23:02
3M134864.D	AD06079-002	08/22/18 23:17
3M134865.D	AD06079-001	08/22/18 23:37
3M134866.D	BLK	08/22/18 23:54
3M134867.D	BLK	08/23/18 00:11
3M134868.D	AD06085-001	08/23/18 00:28
3M134869.D	BLK	08/23/18 00:45

8081617 0067

Data Path : G:\GcMsData\2018\GCMS_3\Data\08-22-18\
Data File : 3M134826.D
Acq On : 22 Aug 2018 12:30
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 17 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2018\GCMS_3\MethodQt\3M_A0713.M
Title : @GCMS_3,ug,624,8260
Last Update : Mon Jul 16 14:57:47 2018

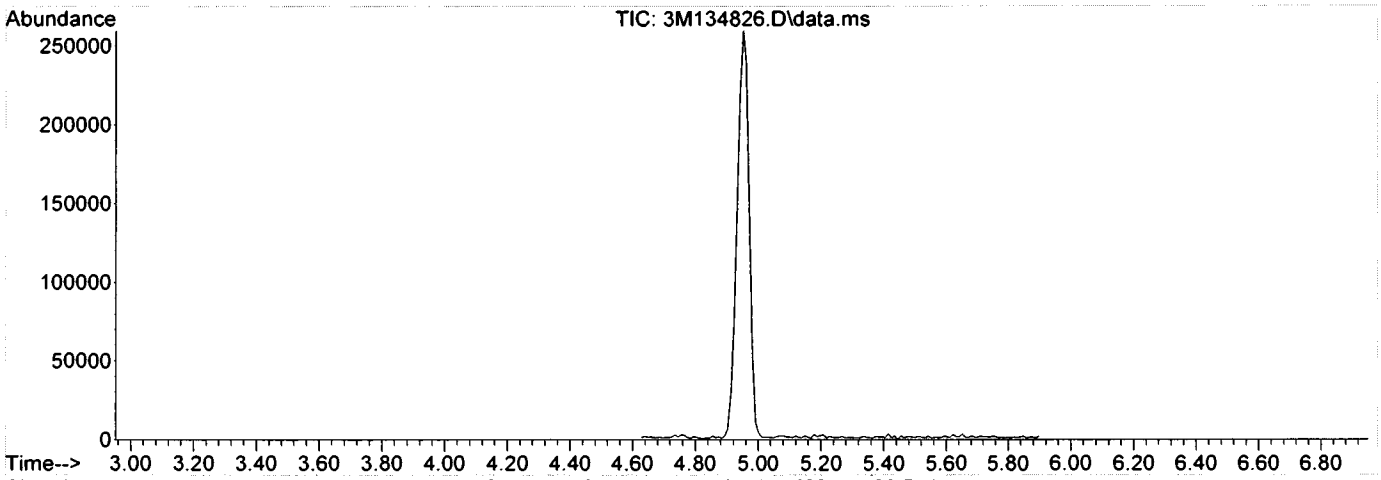

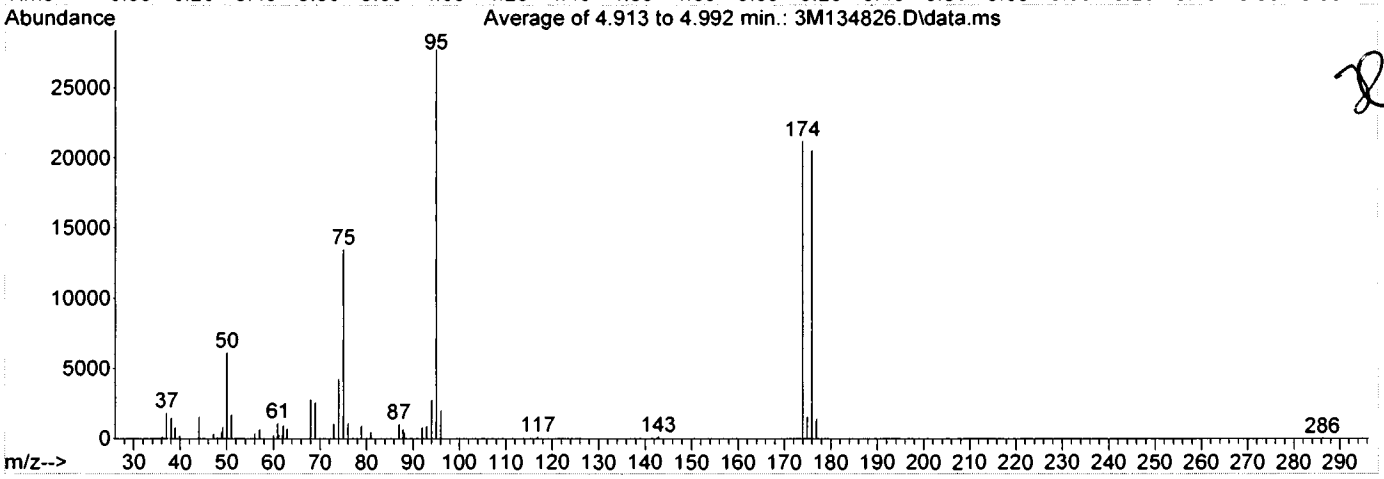

Spectrum Information: Average of 4.913 to 4.992 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.1	6132	PASS
75	95	30	60	48.6	13487	PASS
95	95	100	100	100.0	27743	PASS
96	95	5	9	7.3	2021	PASS
173	174	0.00	2	0.3	60	PASS
174	95	50	100	76.4	21201	PASS
175	174	5	9	7.5	1593	PASS
176	174	95	101	97.0	20575	PASS
177	176	5	9	6.9	1420	PASS

8081617 0068

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3M132624.D	CAL @ 20 PPB	07/13/18 21:31	2	3M132622.D	CAL @ 5 PPB	07/13/18 20:58
3	3M132623.D	CAL @ 10 PPB	07/13/18 21:14	4	3M132634.D	CAL @ 50 PPB	07/14/18 00:22
5	3M132631.D	CAL @ 100 PPB	07/13/18 23:28	6	3M132628.D	CAL @ 250 PPB	07/13/18 22:37
7	3M132625.D	CAL @ 500 PPB	07/13/18 21:48	8	3M132621.D	CAL @ 1 PPB	07/13/18 20:41
9	3M132620.D	CAL @ 0.5 PPB	07/13/18 20:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Qua	0.3510	0.4710	0.3974	0.3687	0.3853	0.3794	0.3749	0.6123	-----	0.418	1.68	1.00	1.00	21	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dichlorodifluorometha	1	0	Avg	0.0833	0.0724	0.0948	0.0876	0.0857	0.0936	0.0944	0.0730	-----	0.0856	1.61	1.00	1.00	11	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloromethane	1	0	Avg	0.1616	0.1690	0.1859	0.1475	0.1454	0.1510	0.1467	0.1020	-----	0.151	1.81	1.00	1.00	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromomethane	1	0	Avg	0.0662	0.0722	0.0730	0.0705	0.0703	0.0486	-----	0.0586	-----	0.0657	2.13	0.969	0.999	14	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Vinyl Chloride	1	0	Avg	0.1268	0.1443	0.1552	0.1331	0.1375	0.1347	0.1359	0.1592	-----	0.141	1.84	1.00	1.00	8.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroethane	1	0	Qua	0.0807	0.0784	0.0824	0.0700	0.0757	0.0650	0.0490	0.1103	-----	0.0765	2.21	0.974	1.00	23	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichlorofluoromethan	1	0	Avg	0.2515	0.3028	0.2649	0.2628	0.2560	0.2618	0.2501	0.2027	-----	0.257	2.42	1.00	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl ether	1	0	Avg	0.2444	0.2483	0.2577	0.2435	0.2468	0.2209	0.2123	0.2194	-----	0.237	2.65	0.999	1.00	7.0	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Furan	1	0	Avg	0.5621	0.6583	0.6615	0.6194	0.5994	0.5780	0.5351	0.6410	-----	0.607	2.69	0.998	1.00	7.6	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1340	0.1491	0.1327	0.1190	0.1236	0.1177	0.1035	0.1225	-----	0.125	2.84	0.996	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methylene Chloride	1	0	Avg	0.2515	0.2964	0.2733	0.2461	0.2536	0.2312	0.2148	0.2073	-----	0.247	3.23	0.998	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acrolein	1	0	Avg	0.0437	0.0480	0.0487	0.0435	0.0421	0.0427	0.0397	0.0470	-----	0.0445	2.77	0.999	1.00	7.1		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Acrylonitrile	1	0	Avg	0.1001	0.1006	0.1129	0.1061	0.1056	0.0971	0.0939	0.0939	-----	0.101	3.44	0.999	1.00	6.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iodomethane	1	0	Avg	0.2459	0.2288	0.2485	0.2491	0.2514	0.2433	0.2332	0.2522	-----	0.244	2.98	0.999	1.00	3.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acetone	1	0	Avg	0.0966	0.1067	0.0997	0.0906	0.0956	0.0900	0.0845	0.1049	-----	0.0961	2.92	0.999	1.00	7.9	0.10 a	100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Carbon Disulfide	1	0	Avg	0.4774	0.4973	0.5048	0.4986	0.5018	0.4970	0.4663	0.5384	-----	0.498	3.05	0.999	1.00	4.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butyl Alcohol	1	0	Avg	0.0279	0.0270	0.0276	0.0265	0.0279	0.0290	0.0278	0.0309	-----	0.0281	3.35	1.00	1.00	4.9		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
n-Hexane	1	0	Avg	0.1049	0.1259	0.1056	0.0970	0.0998	0.1101	0.1005	0.1294	-----	0.109	3.68	0.998	0.999	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Di-isopropyl-ether	1	0	Avg	0.9419	0.9275	1.0613	0.9574	0.9188	0.8352	0.6926	1.0667	-----	0.925	3.84	0.989	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethene	1	0	Avg	0.3164	0.3471	0.3433	0.3347	0.3396	0.3238	0.3034	0.3052	-----	0.327	2.85	0.999	1.00	5.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl Acetate	1	0	Avg	0.3600	0.4007	0.3868	0.3613	0.3608	0.3567	0.3327	0.4831	-----	0.380	3.14	0.999	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl-t-butyl ether	1	0	Avg	0.6184	0.7110	0.7012	0.6563	0.6349	0.5624	0.4782	0.5921	0.6349	0.621	3.46	0.991	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
1,1-Dichloroethane	1	0	Avg	0.4187	0.4633	0.4572	0.4390	0.4211	0.4068	0.3718	0.4846	-----	0.433	3.80	0.998	1.00	8.3	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,2-Dichloroethe	1	0	Avg	0.2064	0.2435	0.2484	0.2105	0.2132	0.1938	0.1713	0.2697	-----	0.220	3.46	0.995	1.00	15	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl-t-butyl ether	1	0	Avg	0.8065	0.8333	0.9293	0.8213	0.8275	0.7471	0.6292	0.8974	-----	0.812	4.10	0.991	1.00	11	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,2-Dichloroethene	1	0	Avg	0.4883	0.4951	0.5440	0.4818	0.4640	0.4191	0.3667	0.4760	-----	0.467	4.22	0.994	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromochloromethane	1	0	Avg	0.3104	0.3320	0.3406	0.3068	0.2973	0.2897	0.2678	0.3177	-----	0.308	4.39	0.998	1.00	7.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2,2-Dichloropropane	1	0	Avg	0.3301	0.3565	0.3863	0.3033	0.3066	0.2866	0.2383	0.3482	-----	0.320	4.22	0.991	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl acetate	1	0	Avg	0.3592	0.3077	0.4324	0.3746	0.3525	0.3306	0.3071	0.3861	-----	0.356	4.25	0.998	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dioxane	1	0	Avg	0.0026	0.0027	0.0031	0.0026	0.0027	0.0026	0.0023	0.0022	-----	0.00265	5.41	0.997	1.00	11		1000.	250.0	500.0	2500.	5000.	1250	2500	50.00	
1,1-Dichloropropene	1	0	Avg	0.3008	0.3564	0.3224	0.3015	0.2894	0.2648	0.2164	0.3176	-----	0.296	4.66	0.988	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroform	1	0	Avg	0.4571	0.4824	0.5004	0.4719	0.4457	0.4329	0.3949	0.4677	-----	0.457	4.42	0.998	1.00	7.1	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromofluoromethan	1	0	Avg	0.2591	0.2618	0.2853	0.2683	0.2535	0.2553	0.2507	0.2634	0.2590	0.262	4.53	-1	-1	3.9		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.2326	0.2337	0.2444	0.2322	0.2269	0.2381	0.2088	0.2381	-----	0.232	4.60	0.996	0.999	4.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloroethane-d4	1	0	Avg	0.1821	0.2006	0.1967	0.1884	0.1915	0.1801	0.1672	0.1860	0.1893	0.187	4.75	-1	-1	5.3		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.4325	0.4818	0.4866	0.4252	0.4012	0.3432	0.2891	0.5478	0.4692	0.431	4.80	0.990	1.00	18	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
2-Butanone	1	0	Avg	0.1488	0.1776	0.1303	0.1347	0.1274	0.1282	0.0958	0.1770	-----	0.140	4.24	0.977	0.999	20	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1-Trichloroethane	1	0	Avg	0.3469	0.4099	0.3833	0.3654	0.3587	0.3368	0.2913	0.3695	-----	0.358	4.56	0.994	1.00	9.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Carbon Tetrachloride	1	0	Avg	0.2755	0.2720	0.3099	0.2814	0.2660	0.2432	0.2062	0.2461	-----	0.263	4.66	0.992	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Acetate	1	0	Avg	0.7093	0.7479	0.7589	0.7055	0.6759	0.6379	0.5479	0.8162	-----	0.700	3.84	0.994	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromodichloromethan	1	0	Avg	0.3542	0.3862	0.3965	0.3748	0.3819	0.3616	0.3127	0.3777	-----	0.368	5.48	0.994	1.00	7.1	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.4
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

8081617 0069

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3M132624.D	CAL @ 20 PPB	07/13/18 21:31	2	3M132622.D	CAL @ 5 PPB	07/13/18 20:58
3	3M132623.D	CAL @ 10 PPB	07/13/18 21:14	4	3M132634.D	CAL @ 50 PPB	07/14/18 00:22
5	3M132631.D	CAL @ 100 PPB	07/13/18 23:28	6	3M132628.D	CAL @ 250 PPB	07/13/18 22:37
7	3M132625.D	CAL @ 500 PPB	07/13/18 21:48	8	3M132621.D	CAL @ 1 PPB	07/13/18 20:41
9	3M132620.D	CAL @ 0.5 PPB	07/13/18 20:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.1405	0.1686	0.1619	0.1394	0.1460	0.1441	0.1226	0.1670	-----	0.149	5.31	0.993	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromomethane	1	0	Avg	0.2497	0.2594	0.2847	0.2376	0.2292	0.2006	0.1667	0.2560	-----	0.236	5.40	0.989	1.00	16		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloropropane	1	0	Avg	0.2744	0.2846	0.3327	0.2754	0.2721	0.2536	0.2087	0.2420	-----	0.268	5.32	0.989	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichloroethene	1	0	Avg	0.2489	0.2676	0.2864	0.2628	0.2469	0.2272	0.1883	0.2876	-----	0.252	5.18	0.990	1.00	13	0.20 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Benzene	1	0	Avg	0.9238	1.0203	0.9729	0.8748	0.8092	0.6635	0.5136	0.9419	0.9874	0.856	4.79	0.976	1.00	20	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.7756	0.7899	0.7973	0.7409	0.7312	0.6321	0.5403	0.7816	-----	0.724	4.84	0.991	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iso-propylacetate	1	0	Avg	0.9434	0.8422	0.8851	0.8920	0.8879	0.7961	0.6198	1.0295	-----	0.862	4.79	0.981	1.00	14	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl methacrylate	1	0	Avg	0.5071	0.4615	0.5363	0.4954	0.5462	0.5435	0.4864	0.6384	-----	0.527	5.35	0.997	1.00	10	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromochloromethan	1	0	Avg	0.3755	0.3320	0.3444	0.3742	0.3912	0.3816	0.3311	0.3249	-----	0.357	6.44	0.995	1.00	7.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chloroethylvinylethe	1	0	Avg	0.2399	0.1928	0.2342	0.2398	0.2484	0.2538	0.2298	0.2186	-----	0.232	5.64	0.998	1.00	8.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,3-Dichloropropen	1	0	Avg	0.6062	0.5512	0.5705	0.5609	0.6023	0.5918	0.5076	0.5869	-----	0.572	5.74	0.994	1.00	5.7	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,3-Dichloroprop	1	0	Avg	0.5467	0.6006	0.5334	0.5247	0.5643	0.5554	0.4709	0.4712	-----	0.533	6.07	0.993	1.00	8.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl methacrylate	1	0	Avg	0.5039	0.4951	0.4942	0.5145	0.5117	0.5071	0.4381	0.4704	-----	0.492	6.09	0.994	1.00	5.2	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloroethane	1	0	Avg	0.3197	0.3242	0.3372	0.3108	0.3111	0.3026	0.2652	0.4143	-----	0.323	6.19	0.996	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromoethane	1	0	Avg	0.3362	0.3015	0.3112	0.3184	0.3328	0.3287	0.2852	0.2782	-----	0.312	6.53	0.995	1.00	7.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.5672	0.5776	0.5692	0.5384	0.5209	0.4812	0.3859	0.6342	-----	0.534	6.29	0.986	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.4417	0.4221	0.4530	0.4476	0.4664	0.4778	0.4437	0.4237	-----	0.447	5.82	0.999	1.00	4.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Hexanone	1	0	Avg	0.3193	0.2945	0.3137	0.3186	0.3212	0.3227	0.2882	0.3302	-----	0.314	6.31	0.997	1.00	4.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Tetrachloroethene	1	0	Qua	0.2539	0.2896	0.2652	0.2256	0.2170	0.1827	0.1351	0.2558	-----	0.228	6.30	0.970	1.00	22	0.20 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Toluene-d8	1	0	Avg	1.2609	1.2387	1.3042	1.2837	1.3223	1.3874	1.4031	1.2554	1.2793	1.30	5.92	-1	-1	4.4		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.6828	0.7706	0.7403	0.6772	0.6904	0.6415	0.5319	0.7970	-----	0.692	5.95	0.990	1.00	12	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.3070	0.2877	0.3038	0.2966	0.2902	0.2491	0.1977	0.2416	-----	0.272	6.85	0.982	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chlorobenzene	1	0	Avg	0.7976	0.8339	0.8457	0.7846	0.7815	0.7148	0.5879	0.9010	-----	0.781	6.81	0.989	1.00	12	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butyl acrylate	1	0	Avg	1.6052	1.3828	1.5425	1.6706	1.7794	1.8110	1.5570	1.5117	-----	1.61	7.08	0.994	0.999	8.8	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Amyl acetate	1	0	Avg	1.5159	1.4883	1.4992	1.5563	1.5915	1.6486	1.4381	1.7194	-----	1.56	7.21	0.995	0.999	5.9	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromoform	1	0	Avg	0.6271	0.5919	0.5878	0.6542	0.6845	0.7037	0.6046	0.5022	-----	0.620	7.32	0.994	0.999	10	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethylbenzene	1	0	Qua	0.4180	0.5272	0.4661	0.4576	0.4263	0.3883	0.2876	0.7641	-----	0.467	6.86	0.973	1.00	30	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.8183	0.8485	0.7869	0.7779	0.7957	0.8385	0.7389	0.9074	-----	0.814	7.56	0.996	0.999	6.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromofluorobenzene	1	0	Avg	1.0959	1.1597	1.1029	1.1113	1.1162	1.1789	1.2399	1.1227	1.1403	1.14	7.50	-1	-1	4.0		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.5345	1.5950	1.6236	1.5425	1.4887	1.3460	1.0307	1.5201	-----	1.46	7.17	0.978	1.00	13	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
m&p-Xylenes	1	0	Avg	0.7379	0.8464	0.7884	0.7681	0.7430	0.6943	0.5179	0.7611	0.7453	0.734	6.92	0.975	1.00	12	0.10	40.00	10.00	20.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.8126	0.8517	0.8296	0.7886	0.7604	0.6981	0.5399	0.8705	-----	0.769	7.17	0.981	1.00	14	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.3441	0.3071	0.3336	0.3315	0.3433	0.3754	0.3174	0.4246	-----	0.347	7.58	0.993	0.999	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichlorobenzene	1	0	Avg	1.0101	1.0712	1.0769	0.9851	1.0164	0.9717	0.8002	1.1173	-----	1.01	8.20	0.990	1.00	9.6	0.60	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dichlorobenzene	1	0	Avg	1.0277	1.1248	1.1420	1.0236	1.0100	0.9794	0.8246	1.2033	-----	1.04	8.26	0.992	1.00	11	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichlorobenzene	1	0	Avg	1.0735	1.2126	1.1057	1.0399	1.0207	0.9837	0.8465	1.2189	-----	1.06	8.51	0.994	1.00	11	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Isopropylbenzene	1	0	Avg	1.5183	1.7023	1.6267	1.5670	1.5930	1.6460	1.3891	1.5483	-----	1.57	7.38	0.993	0.999	6.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.1098	0.0897	0.1013	0.0896	0.1135	0.1014	0.1024	0.1443	-----	0.107	7.48	0.999	0.999	16		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Camphene	1	0	Avg	0.4735	0.4945	0.4767	0.4240	0.4336	0.4774	0.3841	0.6747	-----	0.480	7.58	0.988	0.998	18		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichloropropane	1	0	Avg	1.0119	1.0942	1.1257	1.0239	1.0429	1.0250	0.8356	0.9908	-----	1.02	7.60	0.989	0.999	8.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chlorotoluene	1	0	Avg	0.9887	1.1707	1.0530	0.9426	0.9333	0.8217	0.6481	1.1072	-----	0.958	7.72	0.983	1.00	17		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.4
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

8081617 0070

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3M132624.D	CAL @ 20 PPB	07/13/18 21:31	2	3M132622.D	CAL @ 5 PPB	07/13/18 20:58
3	3M132623.D	CAL @ 10 PPB	07/13/18 21:14	4	3M132634.D	CAL @ 50 PPB	07/14/18 00:22
5	3M132631.D	CAL @ 100 PPB	07/13/18 23:28	6	3M132628.D	CAL @ 250 PPB	07/13/18 22:37
7	3M132625.D	CAL @ 500 PPB	07/13/18 21:48	8	3M132621.D	CAL @ 1 PPB	07/13/18 20:41
9	3M132620.D	CAL @ 0.5 PPB	07/13/18 20:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	1.6003	1.7529	1.7171	1.6238	1.7439	1.6777	1.2854	1.7762	-----	1.65	7.70	0.980	0.999	9.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Chlorotoluene	1	0	Avg	1.0377	1.0889	1.1012	1.0533	1.0281	0.9879	0.7789	1.2256	-----	1.04	7.79	0.984	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Propylbenzene	1	0	Avg	1.5533	1.8148	1.7237	1.6614	1.6678	1.7346	1.4299	1.6753	-----	1.66	7.64	0.991	0.999	7.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.6105	1.7279	1.7822	1.6335	1.6548	1.5869	1.3073	1.8697	-----	1.65	7.61	0.990	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3,5-Trimethylbenzen	1	0	Qua	1.1932	1.4808	1.1470	1.1385	0.9756	0.9170	0.6826	0.9627	-----	1.06	7.74	0.974	0.999	22		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	1.2745	1.2191	1.2805	1.2051	1.2306	1.1806	0.9365	1.0511	-----	1.17	7.74	0.985	1.00	10	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.0552	1.2129	1.1016	1.0460	1.0720	1.1298	0.9369	1.2009	-----	1.09	7.96	0.991	0.999	8.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.3729	1.4304	1.4779	1.3642	1.3541	1.3692	1.1417	1.3250	-----	1.35	7.99	0.992	0.999	7.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	1.1131	1.2832	1.2195	1.1657	1.1835	1.2856	1.1350	1.3423	-----	1.22	8.10	0.996	0.999	6.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	1.0037	1.0276	1.0786	1.0026	1.0302	1.0850	0.9099	1.1017	-----	1.03	8.17	0.992	0.999	6.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	1.0961	1.1568	1.1278	1.0670	1.0924	1.1916	1.0286	1.2136	-----	1.12	8.44	0.995	0.999	5.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.6336	0.7438	0.6704	0.6606	0.6715	0.6990	0.6067	0.6613	-----	0.668	8.42	0.995	0.999	6.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4,5-Tetramethylbe	1	0	Avg	0.9435	1.0447	0.9956	1.0077	1.0081	1.1149	0.9609	1.3682	-----	1.06	8.93	0.995	0.999	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromo-3-Chloro	1	0	Avg	0.1698	0.1819	0.1709	0.1840	0.1836	0.1979	0.1913	0.1782	-----	0.182	9.01	1.00	1.00	5.2	0.05	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Camphor	1	0	Avg	0.0760	0.0658	0.0754	0.0736	0.0756	0.0785	0.0684	0.0880	0.0721	0.0749	9.50	0.996	0.999	8.5		200.0	50.00	100.0	500.0	1000.	2500.	5000.	10.00	5.00
Hexachlorobutadiene	1	0	Avg	0.3145	0.3942	0.3421	0.3240	0.3238	0.3569	0.3009	0.5075	-----	0.358	9.66	0.993	0.998	19		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trichlorobenzen	1	0	Avg	0.5431	0.5799	0.5712	0.5191	0.5169	0.5287	0.4664	0.6313	-----	0.545	9.56	0.996	1.00	9.1	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichlorobenzen	1	0	Avg	0.5022	0.5563	0.5185	0.4962	0.4729	0.5047	0.4544	0.6507	-----	0.520	9.90	0.997	0.999	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Naphthalene	1	0	Avg	1.1900	1.2449	1.1589	1.1803	1.2305	1.2677	1.1769	1.5613	-----	1.25	9.74	0.999	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.4
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 3M134828.D **Instrument:** GCMS 3

Cont Calibration Date/Time 8/22/2018 12:56:00 P Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	4.93	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.59	21.70	20	20	0.1	0.418	0.416	8.51	
Dichlorodifluoromethane	1	0		1.54	20.89	20	20	0.1	0.086	0.089	4.44	
Chloromethane	1	0		1.74	28.41	20	20	0.1	0.151	0.215	42.03	C1
Bromomethane	1	0		2.08	29.00	20	20	0.1	0.066	0.095	45.02	C1
Vinyl Chloride	1	0		1.79	22.34	20	20	0.1	0.141	0.157	11.70	
Chloroethane	1	0		2.16	22.89	20	20	0.1	0.076	0.091	14.47	
Trichlorofluoromethane	1	0		2.37	16.73	20	20	0.1	0.257	0.215	16.33	
Ethyl ether	1	0		2.61	20.64	20	20	0.5	0.237	0.244	3.21	
Furan	1	0		2.64	19.44	20	20	0.5	0.607	0.590	2.81	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.79	16.71	20	20	0.1	0.125	0.105	16.46	
Methylene Chloride	1	0		3.19	22.38	20	20	0.1	0.247	0.276	11.88	
Acrolein	1	0		2.72	59.31	100	20		0.044	0.026	40.69	C1
Acrylonitrile	1	0		3.40	19.70	20	20		0.101	0.100	1.52	
Iodomethane	1	0		2.93	19.97	20	20		0.244	0.244	0.16	
Acetone	1	0		2.84	100.07	100	20	0.1	0.096	0.096	0.07	
Carbon Disulfide	1	0		3.00	20.93	20	20	0.1	0.498	0.521	4.64	
t-Butyl Alcohol	1	0		3.28	75.09	100	20		0.028	0.021	24.91	C1
n-Hexane	1	0		3.64	11.05	20	20		0.109	0.060	44.77	C1
Di-isopropyl-ether	1	0		3.81	19.79	20	20		0.925	0.915	1.06	
1,1-Dichloroethene	1	0		2.79	17.54	20	20	0.1	0.327	0.287	12.28	
Methyl Acetate	1	0		3.11	21.82	20	20	0.1	0.380	0.415	9.12	
Methyl-t-butyl ether	1	0		3.42	18.85	20	20	0.1	0.621	0.585	5.76	
1,1-Dichloroethane	1	0		3.77	21.70	20	20	0.2	0.433	0.470	8.50	
trans-1,2-Dichloroethene	1	0		3.42	20.98	20	20	0.1	0.220	0.230	4.92	
Ethyl-t-butyl ether	1	0		4.07	18.82	20	20	0.5	0.812	0.764	5.89	
cis-1,2-Dichloroethene	1	0		4.19	19.76	20	20	0.1	0.467	0.461	1.22	
Bromochloromethane	1	0		4.36	22.61	20	20		0.308	0.348	13.07	
2,2-Dichloropropane	1	0		4.19	14.27	20	20		0.320	0.228	28.65	C1
Ethyl acetate	1	0		4.22	21.61	20	20		0.356	0.385	8.03	
1,4-Dioxane	1	0		5.40	1177.68	1000	20		0.003	0.003	17.77	
1,1-Dichloropropene	1	0		4.63	21.74	20	20		0.296	0.322	8.70	
Chloroform	1	0		4.40	21.92	20	20	0.2	0.457	0.501	9.62	
Dibromofluoromethane	1	0	S	4.51	29.93	30	**		0.262	0.261	0.24	
Cyclohexane	1	0		4.57	15.89	20	20	0.1	0.232	0.184	20.57	C1
1,2-Dichloroethane-d4	1	0	S	4.73	32.43	30	**		0.187	0.202	8.12	
1,2-Dichloroethane	1	0		4.78	21.21	20	20	0.1	0.431	0.457	6.03	
2-Butanone	1	0		4.21	18.67	20	20	0.1	0.140	0.131	6.63	
1,1,1-Trichloroethane	1	0		4.53	20.30	20	20	0.1	0.358	0.363	1.52	
Carbon Tetrachloride	1	0		4.64	22.55	20	20	0.1	0.263	0.296	12.76	
Vinyl Acetate	1	0		3.80	18.79	20	20		0.700	0.658	6.06	
Bromodichloromethane	1	0		5.47	22.13	20	20	0.2	0.368	0.408	10.66	
Methylcyclohexane	1	0		5.29	19.07	20	20	0.1	0.149	0.142	4.63	
Dibromomethane	1	0		5.38	19.45	20	20		0.236	0.229	2.76	
1,2-Dichloropropane	1	0		5.31	20.84	20	20	0.1	0.268	0.279	4.22	
Trichloroethene	1	0		5.16	20.20	20	20	0.2	0.252	0.255	1.01	
Benzene	1	0		4.77	23.73	20	20	0.5	0.856	1.016	18.63	
tert-Amyl methyl ether	1	0		4.82	18.85	20	20		0.724	0.682	5.73	
Chlorobenzene-d5	1	0	I	6.78	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.77	17.13	20	20	0.5	0.862	0.738	14.35	
Methyl methacrylate	1	0		5.34	16.89	20	20	0.5	0.527	0.445	15.56	
Dibromochloromethane	1	0		6.43	18.69	20	20	0.1	0.357	0.334	6.55	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 3M134828.D **Instrument:** GCMS 3

Cont Calibration Date/Time 8/22/2018 12:56:00 P Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.62	17.09	20	20		0.232	0.198	14.55	
cis-1,3-Dichloropropene	1	0		5.73	16.41	20	20	0.2	0.572	0.470	17.93	
trans-1,3-Dichloropropene	1	0		6.06	16.69	20	20	0.1	0.533	0.445	16.55	
Ethyl methacrylate	1	0		6.08	16.86	20	20	0.5	0.492	0.415	15.70	
1,1,2-Trichloroethane	1	0		6.18	18.56	20	20	0.1	0.323	0.300	7.18	
1,2-Dibromoethane	1	0		6.52	18.33	20	20	0.1	0.312	0.286	8.35	
1,3-Dichloropropane	1	0		6.28	20.83	20	20		0.534	0.557	4.16	
4-Methyl-2-Pentanone	1	0		5.81	16.27	20	20	0.1	0.447	0.364	18.67	
2-Hexanone	1	0		6.30	15.93	20	20	0.1	0.314	0.250	20.36	
Tetrachloroethene	1	0		6.28	17.22	20	20	0.2	0.228	0.198	13.88	
Toluene-d8	1	0	S	5.91	28.33	30	**		1.304	1.231	5.56	
Toluene	1	0		5.95	19.23	20	20	0.4	0.692	0.665	3.86	
1,1,1,2-Tetrachloroethane	1	0		6.84	21.48	20	20		0.272	0.292	7.39	
Chlorobenzene	1	0		6.80	18.07	20	20	0.5	0.781	0.706	9.65	
1,4-Dichlorobenzene-d4	1	0	I	8.24	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.08	15.32	20	20	0.5	1.608	1.231	23.40	C1
n-Amyl acetate	1	0		7.21	16.28	20	20	0.5	1.557	1.267	18.62	
Bromoform	1	0		7.31	18.35	20	20	0.1	0.620	0.568	8.28	
Ethylbenzene	1	0		6.85	18.13	20	20	0.1	0.467	0.428	9.37	
1,1,2,2-Tetrachloroethane	1	0		7.55	19.89	20	20	0.1	0.814	0.810	0.54	
Bromofluorobenzene	1	0	S	7.50	27.84	30	**		1.141	1.059	7.19	
Styrene	1	0		7.17	20.61	20	20	0.3	1.460	1.504	3.03	
m&p-Xylenes	1	0		6.92	41.68	40	20	0.1	0.734	0.764	4.20	
o-Xylene	1	0		7.17	20.68	20	20	0.3	0.769	0.795	3.41	
trans-1,4-Dichloro-2-butene	1	0		7.58	17.29	20	20		0.347	0.300	13.53	
1,3-Dichlorobenzene	1	0		8.19	19.61	20	20	0.6	1.006	0.987	1.93	
1,4-Dichlorobenzene	1	0		8.25	19.07	20	20	0.5	1.042	0.993	4.66	
1,2-Dichlorobenzene	1	0		8.51	19.09	20	20	0.4	1.063	1.014	4.56	
Isopropylbenzene	1	0		7.38	19.75	20	20	0.1	1.574	1.554	1.23	
Cyclohexanone	1	0		7.47	41.06	100	20		0.107	0.044	58.94	C1
Camphene	1	0		7.58	20.11	20	20		0.480	0.483	0.56	
1,2,3-Trichloropropane	1	0		7.60	19.69	20	20		1.019	1.003	1.55	
2-Chlorotoluene	1	0		7.72	21.77	20	20		0.958	1.043	8.87	
p-Ethyltoluene	1	0		7.70	17.77	20	20		1.647	1.463	11.17	
4-Chlorotoluene	1	0		7.78	20.54	20	20		1.038	1.066	2.71	
n-Propylbenzene	1	0		7.64	20.98	20	20		1.658	1.739	4.92	
Bromobenzene	1	0		7.61	19.90	20	20		1.647	1.639	0.48	
1,3,5-Trimethylbenzene	1	0		7.73	20.10	20	20		1.062	1.116	0.48	
Butyl methacrylate	1	0		7.73	18.76	20	20	0.5	1.172	1.099	6.22	
t-Butylbenzene	1	0		7.95	17.72	20	20		1.094	0.970	11.38	
1,2,4-Trimethylbenzene	1	0		7.98	21.01	20	20		1.354	1.423	5.04	
sec-Butylbenzene	1	0		8.09	20.12	20	20		1.216	1.223	0.61	
4-Isopropyltoluene	1	0		8.17	20.99	20	20		1.030	1.081	4.95	
n-Butylbenzene	1	0		8.44	21.97	20	20		1.122	1.232	9.85	
p-Diethylbenzene	1	0		8.42	18.64	20	20		0.668	0.623	6.80	
1,2,4,5-Tetramethylbenzene	1	0		8.93	16.42	20	20		1.056	0.867	17.88	
1,2-Dibromo-3-Chloropropane	1	0		9.01	18.95	20	20	0.05	0.182	0.173	5.26	
Camphor	1	0		9.50	176.81	200	20		0.075	0.066	11.60	
Hexachlorobutadiene	1	0		9.64	20.27	20	20		0.358	0.363	1.36	
1,2,4-Trichlorobenzene	1	0		9.55	21.59	20	20	0.2	0.545	0.588	7.94	
1,2,3-Trichlorobenzene	1	0		9.89	21.80	20	20		0.520	0.566	8.98	
Naphthalene	1	0		9.74	19.09	20	20		1.251	1.195	4.53	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

8081617 0073

FORM8

Internal Standard Areas

Evaluation Std Data File: 3M132624.D Method: EPA 8260C

Analysis Date/Time: 07/13/18 21:31

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	334343	4.94	251682	6.78	127867	8.23								
Eval File Area Limit:	167172-668686		125841-503364		63934-255734									
Eval File Rt Limit:	4.44-5.44		6.28-7.28		7.73-8.73									

Data File	Sample						
3M132620.D	CAL @ 0.5 PPB	347928	4.95	273171	6.78	132705	8.23
3M132621.D	CAL @ 1 PPB	322366	4.95	262629	6.78	125201	8.23
3M132622.D	CAL @ 5 PPB	326196	4.95	261678	6.78	126198	8.23
3M132623.D	CAL @ 10 PPB	314063	4.95	261884	6.78	127378	8.23
3M132624.D	CAL @ 20 PPB	334343	4.94	251682	6.78	127867	8.23
3M132625.D	CAL @ 500 PPB	319125	4.95	231944	6.78	107063	8.23
3M132628.D	CAL @ 250 PPB	334590	4.95	242058	6.78	110343	8.23
3M132631.D	CAL @ 100 PPB	321193	4.95	245256	6.78	120410	8.23
3M132634.D	CAL @ 50 PPB	327811	4.95	257776	6.78	126573	8.23
3M132637.D	ICV	324657	4.95	254995	6.78	125929	8.23
3M132643.D	DAILY BLANK	322128	4.94	248010	6.78	127977	8.23
3M132644.D	AD05312-001	321676	4.94	248795	6.78	126579	8.23
3M132645.D	AD05377-001	319350	4.93	250133	6.78	127384	8.23
3M132646.D	AD05357-003	330036	4.94	256205	6.78	128578	8.23
3M132647.D	AD05357-005	326494	4.94	255272	6.78	132275	8.23
3M132648.D	MBS70502	325965	4.94	247894	6.78	133417	8.23
3M132649.D	AD05357-008(MS)	336966	4.95	263831	6.78	125326	8.23
3M132650.D	AD05357-008(MSD)	321984	4.94	261215	6.78	125056	8.23
3M132651.D	AD05357-008	323339	4.94	253278	6.78	130228	8.23
3M132652.D	AD05357-002	329529	4.94	252921	6.78	126682	8.23
3M132653.D	AD05357-001	323525	4.94	253114	6.78	128850	8.23
3M132654.D	AD05357-006	327324	4.94	258881	6.78	131450	8.23
3M132655.D	AD05357-004	327270	4.94	248709	6.78	134956	8.23
3M132656.D	AD05357-007	323273	4.94	246588	6.78	157539	8.23
3M132657.D	MBS70503	339995	4.95	264803	6.78	141847	8.23

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

8081617 0074

FORM8

Internal Standard Areas

Evaluation Std Data File: 3M134828.D Method: EPA 8260C

Analysis Date/Time: 08/22/18 12:56

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	222547	4.93	193531	6.78	89371	8.24								
Eval File Area Limit:	111274-445094		96766-387062		44686-178742									
Eval File Rt Limit:	4.43-5.43		6.28-7.28		7.74-8.74									

Data File	Sample						
3M134827.D	20 PPB	238911	4.95	203179	6.80	99356	8.25
3M134829.D	BLK	215070	4.93	188678	6.78	85201	8.23
3M134830.D	DAILY BLANK	208719	4.93	184158	6.78	83223	8.24
3M134831.D	DAILY BLANK	209886	4.94	182278	6.79	83838	8.24
3M134832.D	AD06007-003	204883	4.93	183667	6.79	82707	8.23
3M134833.D	AD06026-002	216081	4.93	202001	6.78	117780	8.24
3M134834.D	MBS70992	233183	4.93	208392	6.78	97444	8.23
3M134835.D	AD06069-001(MS)	214220	4.93	190705	6.79	96906	8.24
3M134836.D	AD06069-001(MSD)	214494	4.93	197760	6.79	90255	8.24
3M134837.D	MBS70993	215658	4.94	198030	6.78	87130	8.24
3M134838.D	AD06069-001	235078	4.93	205029	6.79	95994	8.24
3M134839.D	AD06006-001(T)	237725	4.94	204191	6.78	87836	8.24
3M134840.D	AD05999-001(T)	170583	4.94	145151	6.79	66569	8.24
3M134841.D	AD06064-001(T)	210252	4.93	186053	6.79	84681	8.24
3M134842.D	AD06064-002(T)	204618	4.93	180973	6.78	85727	8.24
3M134843.D	AD06064-003(T)	210783	4.94	186580	6.79	81834	8.24
3M134844.D	AD06027-001(T)	198933	4.95	179939	6.80	78783	8.25
3M134845.D	AD05997-004(5X)	214392	4.94	193802	6.78	90585	8.24
3M134846.D	BLK	223165	4.94	187374	6.79	88312	8.24
3M134847.D	AD05997-005(10X)	231005	4.93	211378	6.78	93962	8.24
3M134848.D	BLK	233012	4.93	201848	6.78	93452	8.24
3M134849.D	AD06006-001(T:MS)	221008	4.94	200220	6.79	93559	8.24
3M134850.D	AD06006-001(T:MSD)	237380	4.94	214857	6.79	101535	8.24
3M134851.D	EF-1-V-285748(08211	244901	4.93	213965	6.78	98815	8.23
3M134852.D	AD06079-003	231236	4.93	200658	6.78	91834	8.23
3M134853.D	AD06079-004	217303	4.93	189168	6.78	88411	8.23
3M134854.D	AD06079-003	237306	4.93	208076	6.78	94421	8.23
3M134855.D	AD06077-001	235913	4.93	204560	6.78	90458	8.23
3M134856.D	EF-1-285748(082118)	209563	4.93	189022	6.78	86610	8.23
3M134857.D	AD05962-017(T)	159007	4.93	136889	6.78	65191	8.23
3M134858.D	AD05962-018(T)	217307	4.93	191982	6.78	86697	8.23
3M134859.D	AD05962-019(T)	225126	4.93	199363	6.78	92932	8.23

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

8081617 0075

FORM8

Internal Standard Areas

Evaluation Std Data File: 3M134828.D Method: EPA 8260C

Analysis Date/Time: 08/22/18 12:56

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	222547	4.93	193531	6.78	89371	8.24								
Eval File Area Limit:	111274-445094		96766-387062		44686-178742									
Eval File Rt Limit:	4.43-5.43		6.28-7.28		7.74-8.74									

Data File	Sample						
3M134860.D	AD05962-020(T)	225789	4.93	201634	6.78	92802	8.23
3M134861.D	AD05962-021(T)	224047	4.93	194582	6.78	88844	8.23
3M134864.D	AD06079-002	245772	4.93	214785	6.78	97523	8.23
3M134865.D	AD06079-001	210862	4.93	182123	6.78	82440	8.23
3M134866.D	BLK	225865	4.93	193564	6.78	93162	8.24
3M134867.D	BLK	222672	4.93	190306	6.78	94656	8.23
3M134868.D	AD06085-001	220083	4.93	189991	6.78	95352	8.23
3M134869.D	BLK	201736	4.93	175412	6.78	81415	8.23

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

Base Neutral/Acid Extractable Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD05999-001
Client Id: SS-1
Data File: 7M94025.D
Analysis Date: 08/22/18 14:49
Date Rec/Extracted: 08/16/18-08/22/18
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-95-4	2,4,5-Trichlorophenol	0.035	U	207-08-9	Benzo[k]fluoranthene	0.035	U
120-83-2	2,4-Dichlorophenol	0.0088	U	65-85-0	Benzoic Acid	0.18	U
51-28-5	2,4-Dinitrophenol	0.11	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.035	U
606-20-2	2,6-Dinitrotoluene	0.035	U	85-68-7	Butylbenzylphthalate	0.035	U
95-57-8	2-Chlorophenol	0.035	U	218-01-9	Chrysene	0.035	U
91-57-6	2-Methylnaphthalene	0.035	U	53-70-3	Dibenzo[a,h]anthracene	0.035	U
95-48-7	2-Methylphenol	0.0088	U	132-64-9	Dibenzofuran	0.0088	U
88-74-4	2-Nitroaniline	0.035	U	84-66-2	Diethylphthalate	0.035	U
88-75-5	2-Nitrophenol	0.035	U	131-11-3	Dimethylphthalate	0.035	U
106-44-5	3&4-Methylphenol	0.0088	U	84-74-2	Di-n-butylphthalate	0.0088	U
91-94-1	3,3'-Dichlorobenzidine	0.035	U	117-84-0	Di-n-octylphthalate	0.035	U
99-09-2	3-Nitroaniline	0.035	U	206-44-0	Fluoranthene	0.035	U
59-50-7	4-Chloro-3-methylphenol	0.035	U	86-73-7	Fluorene	0.035	U
106-47-8	4-Chloroaniline	0.0088	U	118-74-1	Hexachlorobenzene	0.035	U
100-02-7	4-Nitrophenol	0.035	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.035	U
83-32-9	Acenaphthene	0.035	U	78-59-1	Isophorone	0.035	U
208-96-8	Acenaphthylene	0.035	U	91-20-3	Naphthalene	0.0088	U
62-53-3	Aniline	0.0088	U	98-95-3	Nitrobenzene	0.035	U
120-12-7	Anthracene	0.035	U	87-86-5	Pentachlorophenol	0.075	U
56-55-3	Benzo[a]anthracene	0.035	U	85-01-8	Phenanthrene	0.035	U
50-32-8	Benzo[a]pyrene	0.035	U	108-95-2	Phenol	0.035	U
205-99-2	Benzo[b]fluoranthene	0.035	U	129-00-0	Pyrene	0.035	U
191-24-2	Benzo[g,h,i]perylene	0.035	U				

Worksheet # 477023 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

8081617 0078

SampleID : AD05999-001 Operator : AH/JB Qt Meth : 7M_0821.M
Data File: 7M94025.D Sam Mult : 1 Vial# : 15 Qt On : 08/22/18 15:13
Acq On : 08/22/18 14:49 Misc : S,BNA Qt Upd On: 08/21/18 12:40

Data Path : G:\GcMsData\2018\GCMS_7\Data\08-22-18\
Qt Path : G:\GCMSDATA\2018\GCMS_7\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
7) 1,4-Dioxane-d8(INT)	2.542	96	67422	40.00 ng	-0.03
21) 1,4-Dichlorobenzene-d4	5.784	152	122121	40.00 ng	0.00
31) Naphthalene-d8	6.794	136	440404	40.00 ng	-0.01
50) Acenaphthene-d10	8.220	164	273502	40.00 ng	-0.02
77) Phenanthrene-d10	9.668	188	474571	40.00 ng	-0.02
91) Chrysene-d12	12.713	240	447943	40.00 ng	-0.02
103) Perylene-d12	14.359	264	376600	40.00 ng	-0.06
System Monitoring Compounds					
11) 2-Fluorophenol	4.598	112	184152	47.50 ng	0.00
Spiked Amount 100.000			Recovery = 47.50%		
16) Phenol-d5	5.475	99	323774	55.68 ng	0.00
Spiked Amount 100.000			Recovery = 55.68%		
32) Nitrobenzene-d5	6.228	128	54068	37.16 ng	0.00
Spiked Amount 50.000			Recovery = 74.32%		
55) 2-Fluorobiphenyl	7.633	172	329955	38.75 ng	-0.02
Spiked Amount 50.000			Recovery = 77.50%		
80) 2,4,6-Tribromophenol	8.952	330	96344	91.97 ng	-0.02
Spiked Amount 100.000			Recovery = 91.97%		
94) Terphenyl-d14	11.469	244	389760	51.31 ng	0.00
Spiked Amount 50.000			Recovery = 102.62%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

M

TIC: 7M94025.D\data.ms

Quant QT Reviewed

SampleID : AD05999-001
Data File: 7M94025.D
Acq On : 08/22/18 14:49

Operator : AH/JB
Sam Mult : 1 Vial# : 15
Misc : S,BNA

Qt Meth : 7M_0821.M
Qt On : 08/22/18 15:13
Qt Upd On: 08/21/18 12:40

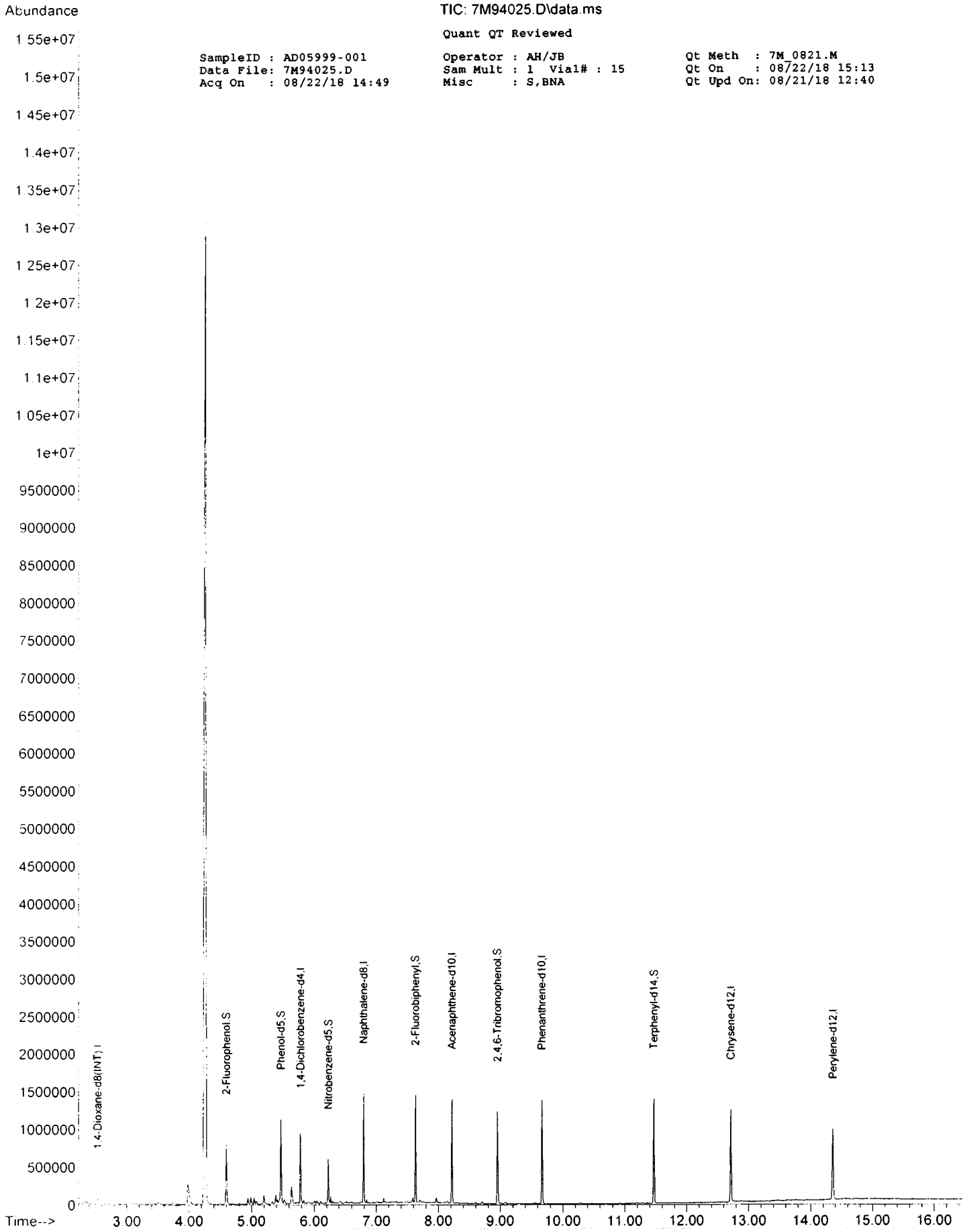

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB69957
Client Id:
Data File: 7M94015.D
Analysis Date: 08/22/18 10:55
Date Rec/Extracted: NA-08/22/18
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-95-4	2,4,5-Trichlorophenol	0.033	U	207-08-9	Benzo[k]fluoranthene	0.033	U
120-83-2	2,4-Dichlorophenol	0.0083	U	65-85-0	Benzoic Acid	0.17	U
51-28-5	2,4-Dinitrophenol	0.10	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	85-68-7	Butylbenzylphthalate	0.033	U
95-57-8	2-Chlorophenol	0.033	U	218-01-9	Chrysene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
95-48-7	2-Methylphenol	0.0083	U	132-64-9	Dibenzofuran	0.0083	U
88-74-4	2-Nitroaniline	0.033	U	84-66-2	Diethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	131-11-3	Dimethylphthalate	0.033	U
106-44-5	3&4-Methylphenol	0.0083	U	84-74-2	Di-n-butylphthalate	0.0083	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	117-84-0	Di-n-octylphthalate	0.033	U
99-09-2	3-Nitroaniline	0.033	U	206-44-0	Fluoranthene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	86-73-7	Fluorene	0.033	U
106-47-8	4-Chloroaniline	0.0083	U	118-74-1	Hexachlorobenzene	0.033	U
100-02-7	4-Nitrophenol	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
83-32-9	Acenaphthene	0.033	U	78-59-1	Isophorone	0.033	U
208-96-8	Acenaphthylene	0.033	U	91-20-3	Naphthalene	0.0083	U
62-53-3	Aniline	0.0083	U	98-95-3	Nitrobenzene	0.033	U
120-12-7	Anthracene	0.033	U	87-86-5	Pentachlorophenol	0.071	U
56 55-3	Benzo[a]anthracene	0.033	U	85-01-8	Phenanthrene	0.033	U
50-32-8	Benzo[a]pyrene	0.033	U	108-95-2	Phenol	0.033	U
205-99-2	Benzo[b]fluoranthene	0.033	U	129-00-0	Pyrene	0.033	U
191-24-2	Benzo[g,h,i]perylene	0.033	U				

Worksheet # 477023 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

8081617 0081

SampleID : SMB69957 Operator : AH/JB Qt Meth : 7M_0821.M
Data File: 7M94015.D Sam Mult : 1 Vial# : 5 Qt On : 08/22/18 11:30
Acq On : 08/22/18 10:55 Misc : S,BNA Qt Upd On: 08/21/18 12:40

Data Path : G:\GcMsData\2018\GCMS_7\Data\08-22-18\
Qt Path : G:\GCMSDATA\2018\GCMS_7\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
7) 1,4-Dioxane-d8(INT)	2.542	96	57345	40.00 ng	-0.03
21) 1,4-Dichlorobenzene-d4	5.785	152	105379	40.00 ng	0.00
31) Naphthalene-d8	6.794	136	373037	40.00 ng	-0.01
50) Acenaphthene-d10	8.221	164	231378	40.00 ng	-0.02
77) Phenanthrene-d10	9.668	188	401366	40.00 ng	-0.02
91) Chrysene-d12	12.713	240	386758	40.00 ng	-0.02
103) Perylene-d12	14.364	264	323054	40.00 ng	-0.05
System Monitoring Compounds					
11) 2-Fluorophenol	4.599	112	267754	81.20 ng	0.00
Spiked Amount 100.000			Recovery = 81.20%		
16) Phenol-d5	5.475	99	416655	84.25 ng	0.00
Spiked Amount 100.000			Recovery = 84.25%		
32) Nitrobenzene-d5	6.228	128	71770	58.24 ng	0.00
Spiked Amount 50.000			Recovery = 116.48%		
55) 2-Fluorobiphenyl	7.633	172	370094	51.37 ng	-0.02
Spiked Amount 50.000			Recovery = 102.74%		
80) 2,4,6-Tribromophenol	8.952	330	87556	97.31 ng	-0.02
Spiked Amount 100.000			Recovery = 97.31%		
94) Terphenyl-d14	11.469	244	370211	56.45 ng	0.00
Spiked Amount 50.000			Recovery = 112.90%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

TIC: 7M94015.D\data.ms

Quant QT Reviewed

SampleID : SMB69957
Data File: 7M94015.D
Acq On : 08/22/18 10:55

Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : S,BNA

Qt Meth : 7M_0821.M
Qt On : 08/22/18 11:30
Qt Upd On: 08/21/18 12:40

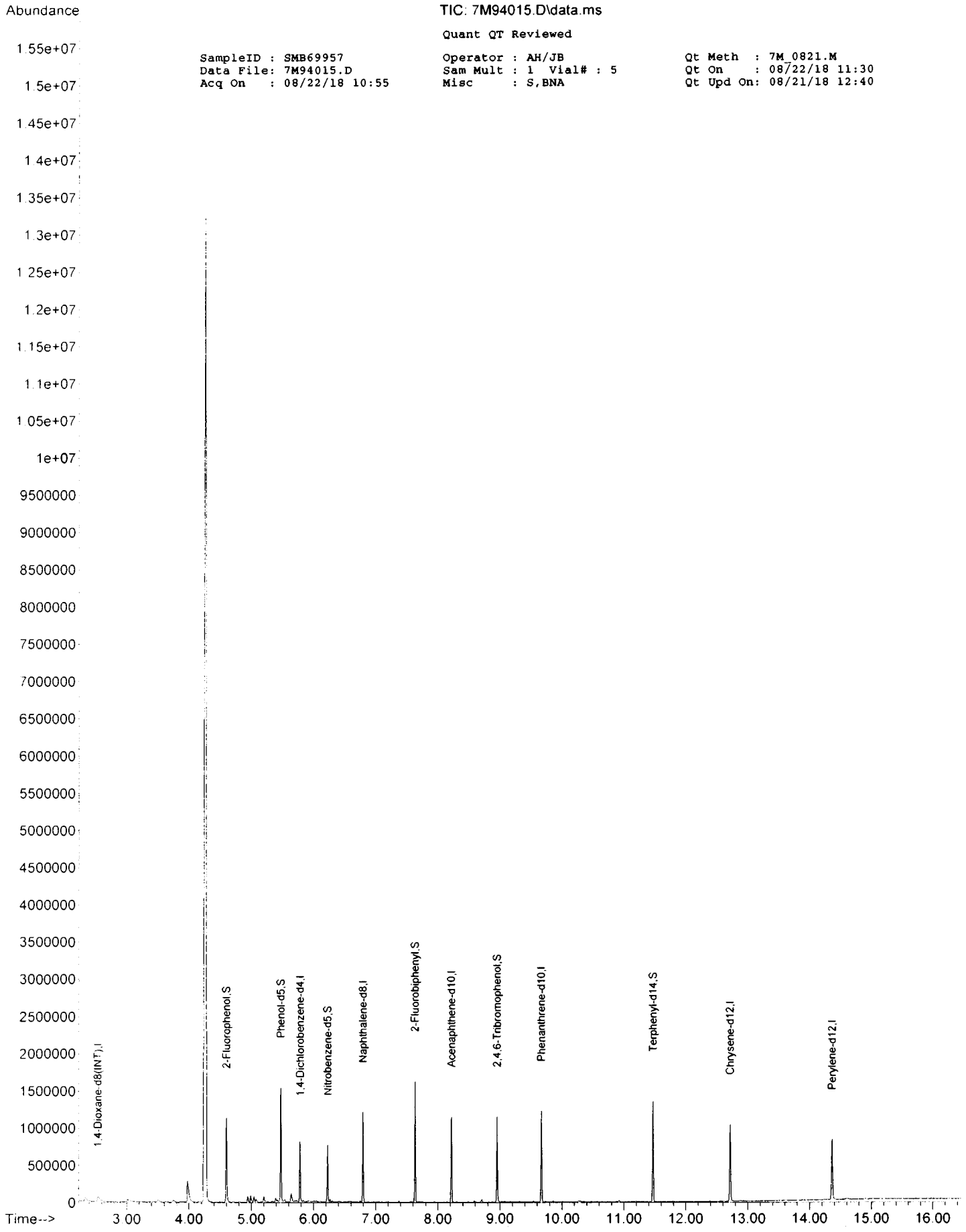

FORM2

Surrogate Recovery

Method: EPA 8270D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
7M94015.D	SMB69957	S	08/22/18 10:55	1		81	84	116	103	97	113
7M94025.D	AD05999-001	S	08/22/18 14:49	1		47	56	74	77	92	103
7M94014.D	SMB69957(MS)	S	08/22/18 10:32	1		76	85	114	108	110	122
7M94028.D	AD05999-001(MS)	S	08/22/18 16:11	1		72	77	109	100	104	111
7M94029.D	AD05999-001(MSD)	S	08/22/18 16:34	1		68	71	101	88	95	101

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	43-128
S2=Phenol-d5	100	49-129
S3=Nitrobenzene-d5	50	52-129
S4=2-Fluorobiphenyl	50	58-125
S5=2,4,6-Tribromophenol	100	54-145
S6=Terphenyl-d14	50	58-148

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69957

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M94014.D	SMB69957(MS)	8/22/2018 10:32:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	21.2454	0	50	42	1	150
N-Nitrosodimethylamine	1	34.2517	0	50	69	50	130
Benzaldehyde	1	47.0609	0	50	94	20	220
Aniline	1	31.6574	0	50	63	20	150
Pentachloroethane	1	41.0771	0	50	82	50	130
bis(2-Chloroethyl)ether	1	38.7689	0	50	78	50	130
Phenol	1	70.6897	0	100	71	20	150
2-Chlorophenol	1	69.6614	0	100	70	50	130
N-Decane	1	28.9335	0	50	58	20	130
1,3-Dichlorobenzene	1	31.3299	0	50	63	60	130
1,4-Dichlorobenzene	1	32.3883	0	50	65	60	130
1,2-Dichlorobenzene	1	33.5977	0	50	67	50	130
Benzyl alcohol	1	45.0837	0	50	90	20	130
bis(2-chloroisopropyl)ether	1	32.4313	0	50	65	40	130
2-Methylphenol	1	79.0156	0	100	79	50	130
Acetophenone	1	46.7098	0	50	93	50	130
Hexachloroethane	1	31.7125	0	50	63	50	130
N-Nitroso-di-n-propylamine	1	36.0998	0	50	72	40	130
3&4-Methylphenol	1	78.852	0	100	79	70	130
Nitrobenzene	1	38.5164	0	50	77	70	130
Isophorone	1	38.6568	0	50	77	60	130
2-Nitrophenol	1	72.4284	0	100	72	70	130
2,4-Dimethylphenol	1	79.0657	0	100	79	50	130
Benzoic Acid	1	95.0861	0	100	95	20	130
bis(2-Chloroethoxy)methane	1	38.2221	0	50	76	60	130
2,4-Dichlorophenol	1	82.7642	0	100	83	70	130
1,2,4-Trichlorobenzene	1	35.4176	0	50	71	50	130
Naphthalene	1	39.54	0	50	79	50	130
4-Chloroaniline	1	42.7442	0	50	85	10	150
Hexachlorobutadiene	1	36.0648	0	50	72	60	130
Caprolactam	1	67.6684	0	50	135*	50	130
4-Chloro-3-methylphenol	1	85.6091	0	100	86	50	130
2-Methylnaphthalene	1	38.7378	0	50	77	70	130
1-Methylnaphthalene	1	45.2816	0	50	91	70	130
1,1'-Biphenyl	1	42.5774	0	50	85	60	130
1,2,4,5-Tetrachlorobenzene	1	50.1856	0	50	100	70	130
Hexachlorocyclopentadiene	1	37.5507	0	50	75	20	160
2,4,6-Trichlorophenol	1	86.2336	0	100	86	70	130
2,4,5-Trichlorophenol	1	90.7465	0	100	91	70	130
2-Chloronaphthalene	1	40.4997	0	50	81	70	130
1,4-Dimethylnaphthalene	1	46.6122	0	50	93	70	130
Diphenyl Ether	1	52.8635	0	50	106	70	130
2-Nitroaniline	1	50.8369	0	50	102	50	130
Coumarin	1	56.5707	0	50	113	70	130
Acenaphthylene	1	47.421	0	50	95	70	130
Dimethylphthalate	1	44.7847	0	50	90	70	130
2,6-Dinitrotoluene	1	46.9411	0	50	94	70	130
Acenaphthene	1	43.8335	0	50	88	50	130
3-Nitroaniline	1	46.1477	0	50	92	10	130
2,4-Dinitrophenol	1	78.1221	0	100	78	20	150
Dibenzofuran	1	46.1347	0	50	92	70	130
2,4-Dinitrotoluene	1	44.5784	0	50	89	40	130
4-Nitrophenol	1	94.2889	0	100	94	20	150
2,3,4,6-Tetrachlorophenol	1	81.0915	0	100	81	70	130
Fluorene	1	45.0221	0	50	90	50	130
4-Chlorophenyl-phenylether	1	42.9789	0	50	86	70	130
Diethylphthalate	1	47.2901	0	50	95	70	130
4-Nitroaniline	1	46.2515	0	50	93	50	130
Atrazine	1	73.8561	0	50	148*	50	130
4,6-Dinitro-2-methylphenol	1	85.5327	0	100	86	70	130
n-Nitrosodiphenylamine	1	36.6341	0	50	73	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69957

1,2-Diphenylhydrazine	1	52.3681	0	50	105	70	130
4-Bromophenyl-phenylether	1	44.2035	0	50	88	70	130
Hexachlorobenzene	1	42.1419	0	50	84	70	130
N-Octadecane	1	60.6527	0	50	121	70	130
Pentachlorophenol	1	82.4746	0	100	82	40	130
Phenanthrene	1	43.4203	0	50	87	70	130
Anthracene	1	41.0753	0	50	82	70	130
Carbazole	1	54.0664	0	50	108	70	130
Di-n-butylphthalate	1	44.8514	0	50	90	70	130
Fluoranthene	1	42.9295	0	50	86	70	130
Pyrene	1	45.5499	0	50	91	50	130
Benzidine	1	3.5569	0	50	7.1	1	130
Butylbenzylphthalate	1	46.0666	0	50	92	50	130
3,3'-Dichlorobenzidine	1	42.3029	0	50	85	10	130
Benzo[a]anthracene	1	45.439	0	50	91	70	130
Chrysene	1	45.3597	0	50	91	60	130
bis(2-Ethylhexyl)phthalate	1	48.108	0	50	96	70	130
Di-n-octylphthalate	1	47.5376	0	50	95	70	130
Benzo[b]fluoranthene	1	45.9195	0	50	92	70	130
Benzo[k]fluoranthene	1	47.2157	0	50	94	70	130
Benzo[a]pyrene	1	40.479	0	50	81	70	130
Indeno[1,2,3-cd]pyrene	1	46.9658	0	50	94	70	130
Dibenzo[a,h]anthracene	1	51.3137	0	50	103	60	130
Benzo[g,h,i]perylene	1	44.1412	0	50	88	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69957

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M94028.D	AD05999-001(MS)	8/22/2018 4:11:00 PM
Non Spike(If applicable):	7M94025.D	AD05999-001	8/22/2018 2:49:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	25.0598	0	50	50	1	150
N-Nitrosodimethylamine	1	31.3986	0	50	63	50	130
Benzaldehyde	1	50.5529	0	50	101	20	220
Aniline	1	30.3855	0	50	61	20	150
Pentachloroethane	1	42.4324	0	50	85	50	130
bis(2-Chloroethyl)ether	1	35.5147	0	50	71	50	130
Phenol	1	72.0502	0	100	72	20	150
2-Chlorophenol	1	70.829	0	100	71	50	130
N-Decane	1	53.2942	2.6886	50	101	20	130
1,3-Dichlorobenzene	1	29.6744	0	50	59*	60	130
1,4-Dichlorobenzene	1	30.0185	0	50	60	60	130
1,2-Dichlorobenzene	1	30.9249	0	50	62	50	130
Benzyl alcohol	1	36.1132	0	50	72	20	130
bis(2-chloroisopropyl)ether	1	29.8533	0	50	60	40	130
2-Methylphenol	1	79.1807	0	100	79	50	130
Acetophenone	1	49.1759	0	50	98	50	130
Hexachloroethane	1	30.3672	0	50	61	50	130
N-Nitroso-di-n-propylamine	1	32.5745	0	50	65	40	130
3&4-Methylphenol	1	75.2827	0	100	75	70	130
Nitrobenzene	1	35.2994	0	50	71	70	130
Isophorone	1	34.0776	0	50	68	60	130
2-Nitrophenol	1	72.7951	0	100	73	70	130
2,4-Dimethylphenol	1	72.9597	0	100	73	50	130
Benzoic Acid	1	45.4478	0	100	45	20	130
bis(2-Chloroethoxy)methane	1	33.4948	0	50	67	60	130
2,4-Dichlorophenol	1	81.0702	0	100	81	70	130
1,2,4-Trichlorobenzene	1	32.4013	0	50	65	50	130
Naphthalene	1	35.758	0	50	72	50	130
4-Chloroaniline	1	34.1328	0	50	68	10	150
Hexachlorobutadiene	1	31.1757	0	50	62	60	130
Caprolactam	1	43.5279	0	50	87	50	130
4-Chloro-3-methylphenol	1	79.2588	0	100	79	50	130
2-Methylnaphthalene	1	33.6018	0	50	67*	70	130
1-Methylnaphthalene	1	48.1788	0	50	96	70	130
1,1'-Biphenyl	1	43.341	0	50	87	60	130
1,2,4,5-Tetrachlorobenzene	1	53.0175	0	50	106	70	130
Hexachlorocyclopentadiene	1	35.1494	0	50	70	20	160
2,4,6-Trichlorophenol	1	81.1876	0	100	81	70	130
2,4,5-Trichlorophenol	1	84.0727	0	100	84	70	130
2-Chloronaphthalene	1	34.5984	0	50	69*	70	130
1,4-Dimethylnaphthalene	1	45.5338	0	50	91	70	130
Diphenyl Ether	1	54.0962	0	50	108	70	130
2-Nitroaniline	1	44.3286	0	50	89	50	130
Coumarin	1	49.1538	0	50	98	70	130
Acenaphthylene	1	40.4365	0	50	81	70	130
Dimethylphthalate	1	37.5409	0	50	75	70	130
2,6-Dinitrotoluene	1	42.0818	0	50	84	70	130
Acenaphthene	1	37.8838	0	50	76	50	130
3-Nitroaniline	1	37.6486	0	50	75	70	130
2,4-Dinitrophenol	1	73.8039	0	100	74	20	150
Dibenzofuran	1	39.4782	0	50	79	70	130
2,4-Dinitrotoluene	1	38.8443	0	50	78	40	130
4-Nitrophenol	1	79.0284	0	100	79	20	150
2,3,4,6-Tetrachlorophenol	1	74.2276	0	100	74	70	130
Fluorene	1	38.6142	0	50	77	50	130
4-Chlorophenyl-phenylether	1	36.8344	0	50	74	70	130
Diethylphthalate	1	39.6709	0	50	79	70	130
4-Nitroaniline	1	38.6262	0	50	77	50	130
Atrazine	1	43.941	0	50	88	50	130
4,6-Dinitro-2-methylphenol	1	80.032	0	100	80	70	130
n-Nitrosodiphenylamine	1	32.1073	0	50	64	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69957

1,2-Diphenylhydrazine	1	43.9518	0	50	88	70	130
4-Bromophenyl-phenylether	1	38.2588	0	50	77	70	130
Hexachlorobenzene	1	38.1743	0	50	76	70	130
N-Octadecane	1	56.0719	0	50	112	70	130
Pentachlorophenol	1	77.501	0	100	78	40	130
Phenanthrene	1	38.5489	0	50	77	70	130
Anthracene	1	37.1572	0	50	74	70	130
Carbazole	1	48.2504	0	50	97	70	130
Di-n-butylphthalate	1	31.1855	0	50	62*	70	130
Fluoranthene	1	39.1629	0	50	78	70	130
Pyrene	1	41.7262	0	50	83	50	130
Benzidine	1	0	0	50	0*	1	130
Butylbenzylphthalate	1	9.3099	0	50	19*	50	130
3,3'-Dichlorobenzidine	1	21.772	0	50	44	10	130
Benzo[a]anthracene	1	40.4643	0	50	81	70	130
Chrysene	1	39.8855	0	50	80	60	130
bis(2-Ethylhexyl)phthalate	1	14.8421	0	50	30*	70	130
Di-n-octylphthalate	1	15.1639	0	50	30*	70	130
Benzo[b]fluoranthene	1	46.0515	0	50	92	70	130
Benzo[k]fluoranthene	1	45.7205	0	50	91	70	130
Benzo[a]pyrene	1	38.8803	0	50	78	70	130
Indeno[1,2,3-cd]pyrene	1	44.6015	0	50	89	70	130
Dibenzo[a,h]anthracene	1	48.7208	0	50	97	60	130
Benzo[g,h,i]perylene	1	41.595	0	50	83	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69957

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M94029.D	AD05999-001(MSD)	8/22/2018 4:34:00 PM
Non Spike(If applicable):	7M94025.D	AD05999-001	8/22/2018 2:49:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Pyridine	1	29.0903	0	50	58	1	150
N-Nitrosodimethylamine	1	31.4179	0	50	63	50	130
Benzaldehyde	1	51.5708	0	50	103	20	220
Aniline	1	31.0537	0	50	62	20	150
Pentachloroethane	1	44.9995	0	50	90	50	130
bis(2-Chloroethyl)ether	1	35.1093	0	50	70	50	130
Phenol	1	71.2418	0	100	71	20	150
2-Chlorophenol	1	69.5152	0	100	70	50	130
N-Decane	1	38.6852	2.6886	50	72	20	130
1,3-Dichlorobenzene	1	29.4936	0	50	59*	60	130
1,4-Dichlorobenzene	1	29.896	0	50	60	60	130
1,2-Dichlorobenzene	1	30.3842	0	50	61	50	130
Benzyl alcohol	1	39.1779	0	50	78	20	130
bis(2-chloroisopropyl)ether	1	29.5448	0	50	59	40	130
2-Methylphenol	1	76.5696	0	100	77	50	130
Acetophenone	1	50.4715	0	50	101	50	130
Hexachloroethane	1	30.8155	0	50	62	50	130
N-Nitroso-di-n-propylamine	1	31.3399	0	50	63	40	130
3&4-Methylphenol	1	75.9282	0	100	76	70	130
Nitrobenzene	1	34.5744	0	50	69*	70	130
Isophorone	1	33.5801	0	50	67	60	130
2-Nitrophenol	1	72.4618	0	100	72	70	130
2,4-Dimethylphenol	1	77.1923	0	100	77	50	130
Benzoic Acid	1	60.3121	0	100	60	20	130
bis(2-Chloroethoxy)methane	1	32.1013	0	50	64	60	130
2,4-Dichlorophenol	1	80.6347	0	100	81	70	130
1,2,4-Trichlorobenzene	1	30.9084	0	50	62	50	130
Naphthalene	1	34.436	0	50	69	50	130
4-Chloroaniline	1	39.7019	0	50	79	10	150
Hexachlorobutadiene	1	31.7264	0	50	63	60	130
Caprolactam	1	48.1358	0	50	96	50	130
4-Chloro-3-methylphenol	1	81.4311	0	100	81	50	130
2-Methylnaphthalene	1	33.1456	0	50	66*	70	130
1-Methylnaphthalene	1	45.5825	0	50	91	70	130
1,1'-Biphenyl	1	40.9269	0	50	82	60	130
1,2,4,5-Tetrachlorobenzene	1	48.2113	0	50	96	70	130
Hexachlorocyclopentadiene	1	28.4978	0	50	57	20	160
2,4,6-Trichlorophenol	1	85.6167	0	100	86	70	130
2,4,5-Trichlorophenol	1	79.2213	0	100	79	70	130
2-Chloronaphthalene	1	34.1194	0	50	68*	70	130
1,4-Dimethylnaphthalene	1	41.5145	0	50	83	70	130
Diphenyl Ether	1	47.9749	0	50	96	70	130
2-Nitroaniline	1	43.0422	0	50	86	50	130
Coumarin	1	43.5524	0	50	87	70	130
Acenaphthylene	1	40.0659	0	50	80	70	130
Dimethylphthalate	1	36.1938	0	50	72	70	130
2,6-Dinitrotoluene	1	38.9473	0	50	78	70	130
Acenaphthene	1	37.219	0	50	74	50	130
3-Nitroaniline	1	39.5302	0	50	79	70	130
2,4-Dinitrophenol	1	67.1887	0	100	67	20	150
Dibenzofuran	1	38.4107	0	50	77	70	130
2,4-Dinitrotoluene	1	37.6498	0	50	75	40	130
4-Nitrophenol	1	80.6756	0	100	81	20	150
2,3,4,6-Tetrachlorophenol	1	74.7969	0	100	75	70	130
Fluorene	1	37.5135	0	50	75	50	130
4-Chlorophenyl-phenylether	1	36.5712	0	50	73	70	130
Diethylphthalate	1	36.912	0	50	74	70	130
4-Nitroaniline	1	38.4016	0	50	77	50	130
Atrazine	1	44.6999	0	50	89	50	130
4,6-Dinitro-2-methylphenol	1	80.194	0	100	80	70	130
n-Nitrosodiphenylamine	1	31.8334	0	50	64	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69957

1,2-Diphenylhydrazine	1	42.511	0	50	85	70	130
4-Bromophenyl-phenylether	1	37.4804	0	50	75	70	130
Hexachlorobenzene	1	38.491	0	50	77	70	130
N-Octadecane	1	52.9096	0	50	106	70	130
Pentachlorophenol	1	76.4207	0	100	76	40	130
Phenanthrene	1	38.7088	0	50	77	70	130
Anthracene	1	36.5573	0	50	73	70	130
Carbazole	1	46.7591	0	50	94	70	130
Di-n-butylphthalate	1	32.4678	0	50	65*	70	130
Fluoranthene	1	38.2796	0	50	77	70	130
Pyrene	1	42.2225	0	50	84	50	130
Benzidine	1	2.1458	0	50	4.3	1	130
Butylbenzylphthalate	1	14.1196	0	50	28*	50	130
3,3'-Dichlorobenzidine	1	30.9108	0	50	62	10	130
Benzo[a]anthracene	1	39.85	0	50	80	70	130
Chrysene	1	39.9455	0	50	80	60	130
bis(2-Ethylhexyl)phthalate	1	19.0992	0	50	38*	70	130
Di-n-octylphthalate	1	18.1223	0	50	36*	70	130
Benzo[b]fluoranthene	1	40.9658	0	50	82	70	130
Benzo[k]fluoranthene	1	41.4935	0	50	83	70	130
Benzo[a]pyrene	1	35.8861	0	50	72	70	130
Indeno[1,2,3-cd]pyrene	1	40.4646	0	50	81	70	130
Dibenzo[a,h]anthracene	1	44.9458	0	50	90	60	130
Benzo[g,h,i]perylene	1	38.6811	0	50	77	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: SMB69957

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M94029.D	AD05999-001(MSD)	8/22/2018 4:34:00 PM
Duplicate(If applicable):	7M94028.D	AD05999-001(MS)	8/22/2018 4:11:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Pyridine	1	29.0903	25.0598	15	30
N-Nitrosodimethylamine	1	31.4179	31.3986	0.06	30
Benzaldehyde	1	51.5708	50.5529	2	30
Aniline	1	31.0537	30.3855	2.2	30
Pentachloroethane	1	44.9995	42.4324	5.9	30
bis(2-Chloroethyl)ether	1	35.1093	35.5147	1.1	30
Phenol	1	71.2418	72.0502	1.1	40
2-Chlorophenol	1	69.5152	70.829	1.9	40
N-Decane	1	38.6852	53.2942	32*	30
1,3-Dichlorobenzene	1	29.4936	29.6744	0.61	30
1,4-Dichlorobenzene	1	29.896	30.0185	0.41	40
1,2-Dichlorobenzene	1	30.3842	30.9249	1.8	30
Benzyl alcohol	1	39.1779	36.1132	8.1	30
bis(2-chloroisopropyl)ether	1	29.5448	29.8533	1	30
2-Methylphenol	1	76.5696	79.1807	3.4	40
Acetophenone	1	50.4715	49.1759	2.6	30
Hexachloroethane	1	30.8155	30.3672	1.5	30
N-Nitroso-di-n-propylamine	1	31.3399	32.5745	3.9	40
3&4-Methylphenol	1	75.9282	75.2827	0.85	30
Nitrobenzene	1	34.5744	35.2994	2.1	30
Isophorone	1	33.5801	34.0776	1.5	30
2-Nitrophenol	1	72.4618	72.7951	0.46	30
2,4-Dimethylphenol	1	77.1923	72.9597	5.6	40
Benzoic Acid	1	60.3121	45.4478	28	30
bis(2-Chloroethoxy)methane	1	32.1013	33.4948	4.2	30
2,4-Dichlorophenol	1	80.6347	81.0702	0.54	30
1,2,4-Trichlorobenzene	1	30.9084	32.4013	4.7	40
Naphthalene	1	34.436	35.758	3.8	40
4-Chloroaniline	1	39.7019	34.1328	15	30
Hexachlorobutadiene	1	31.7264	31.1757	1.8	30
Caprolactam	1	48.1358	43.5279	10	30
4-Chloro-3-methylphenol	1	81.4311	79.2588	2.7	40
2-Methylnaphthalene	1	33.1456	33.6018	1.4	30
1-Methylnaphthalene	1	45.5825	48.1788	5.5	30
1,1'-Biphenyl	1	40.9269	43.341	5.7	30
1,2,4,5-Tetrachlorobenzene	1	48.2113	53.0175	9.5	30
Hexachlorocyclopentadiene	1	28.4978	35.1494	21	30
2,4,6-Trichlorophenol	1	85.6167	81.1876	5.3	30
2,4,5-Trichlorophenol	1	79.2213	84.0727	5.9	30
2-Chloronaphthalene	1	34.1194	34.5984	1.4	30
1,4-Dimethylnaphthalene	1	41.5145	45.5338	9.2	30
Diphenyl Ether	1	47.9749	54.0962	12	30
2-Nitroaniline	1	43.0422	44.3286	2.9	30
Coumarin	1	43.5524	49.1538	12	30
Acenaphthylene	1	40.0659	40.4365	0.92	30
Dimethylphthalate	1	36.1938	37.5409	3.7	30
2,6-Dinitrotoluene	1	38.9473	42.0818	7.7	30
Acenaphthene	1	37.219	37.8838	1.8	40
3-Nitroaniline	1	39.5302	37.6486	4.9	30
2,4-Dinitrophenol	1	67.1887	73.8039	9.4	30
Dibenzofuran	1	38.4107	39.4782	2.7	30
2,4-Dinitrotoluene	1	37.6498	38.8443	3.1	40
4-Nitrophenol	1	80.6756	79.0284	2.1	40
2,3,4,6-Tetrachlorophenol	1	74.7969	74.2276	0.76	30
Fluorene	1	37.5135	38.6142	2.9	40
4-Chlorophenyl-phenylether	1	36.5712	36.8344	0.72	30
Diethylphthalate	1	36.912	39.6709	7.2	30
4-Nitroaniline	1	38.4016	38.6262	0.58	30
Atrazine	1	44.6999	43.941	1.7	30
4,6-Dinitro-2-methylphenol	1	80.194	80.032	0.2	30
n-Nitrosodiphenylamine	1	31.8334	32.1073	0.86	30
1,2-Diphenylhydrazine	1	42.511	43.9518	3.3	30
4-Bromophenyl-phenylether	1	37.4804	38.2588	2.1	30

Form3
RPD Data Laboratory Limits
QC Batch: SMB69957

Hexachlorobenzene	1	38.491	38.1743	0.83	30
N-Octadecane	1	52.9096	56.0719	5.8	30
Pentachlorophenol	1	76.4207	77.501	1.4	40
Phenanthrene	1	38.7088	38.5489	0.41	30
Anthracene	1	36.5573	37.1572	1.6	30
Carbazole	1	46.7591	48.2504	3.1	30
Di-n-butylphthalate	1	32.4678	31.1855	4	30
Fluoranthene	1	38.2796	39.1629	2.3	30
Pyrene	1	42.2225	41.7262	1.2	40
Benzidine	1	2.1458	0	200 *	30
Butylbenzylphthalate	1	14.1196	9.3099	41 *	40
3,3'-Dichlorobenzidine	1	30.9108	21.772	35 *	30
Benzo[a]anthracene	1	39.85	40.4643	1.5	30
Chrysene	1	39.9455	39.8855	0.15	30
bis(2-Ethylhexyl)phthalate	1	19.0992	14.8421	25	30
Di-n-octylphthalate	1	18.1223	15.1639	18	30
Benzo[b]fluoranthene	1	40.9658	46.0515	12	30
Benzo[k]fluoranthene	1	41.4935	45.7205	9.7	30
Benzo[a]pyrene	1	35.8861	38.8803	8	30
Indeno[1,2,3-cd]pyrene	1	40.4646	44.6015	9.7	30
Dibenzo[a,h]anthracene	1	44.9458	48.7208	8.1	30
Benzo[g,h,i]perylene	1	38.6811	41.595	7.3	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: SMB69957
Blank Data File: 7M94015.D
Matrix: Soil

Blank Analysis Date: 08/22/18 10:55
Blank Extraction Date: 08/22/18
(If Applicable)
Method: EPA 8270D

Sample Number	Data File	Analysis Date
AD05999-001	7M94025.D	08/22/18 14:49
AD05999-001(MSD	7M94029.D	08/22/18 16:34
AD05999-001(MS)	7M94028.D	08/22/18 16:11
SMB69957(MS)	7M94014.D	08/22/18 10:32

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7

Data File: 7M93972.D
Analysis Date: 08/21/18 08:24
Method: EPA 8270D

Tune Scan/Time Range: Average of 9.968 to 9.973 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	48.0	93340	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	51.0	99124	PASS
70	69	0.00	2	0.5	502	PASS
127	198	40	60	52.2	101400	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	194400	PASS
199	198	5	9	7.0	13535	PASS
275	198	10	30	23.3	45312	PASS
365	198	1	100	3.2	6162	PASS
441	443	0.01	100	74.7	14992	PASS
442	198	40	100	53.7	104416	PASS
443	442	17	23	19.2	20056	PASS

Data File	Sample Number	Analysis Date:
7M93973.D	CAL BNA@10PPM	08/21/18 08:59
7M93974.D	CAL BNA@2PPM	08/21/18 09:23
7M93975.D	CAL BNA@196PP	08/21/18 09:51
7M93976.D	CAL BNA@160PP	08/21/18 10:14
7M93977.D	CAL BNA@120PP	08/21/18 10:37
7M93978.D	CAL BNA@80PPM	08/21/18 11:02
7M93979.D	CAL BNA@20PPM	08/21/18 11:25
7M93980.D	CAL BNA@0.5PP	08/21/18 11:48
7M93981.D	CAL BNA@50PPM	08/21/18 12:11
7M93982.D	ICV BNA@50PPM	08/21/18 12:43

8081617 0094

Data Path : G:\GcMsData\2018\GCMS_7\Data\08-21-18\
Data File : 7M93972.D
Acq On : 21 Aug 2018 8:24
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2018\GCMS_7\MethodQt\7M_0802.M
Title : @GCMS_7,mg,625,8270
Last Update : Thu Aug 02 12:25:02 2018

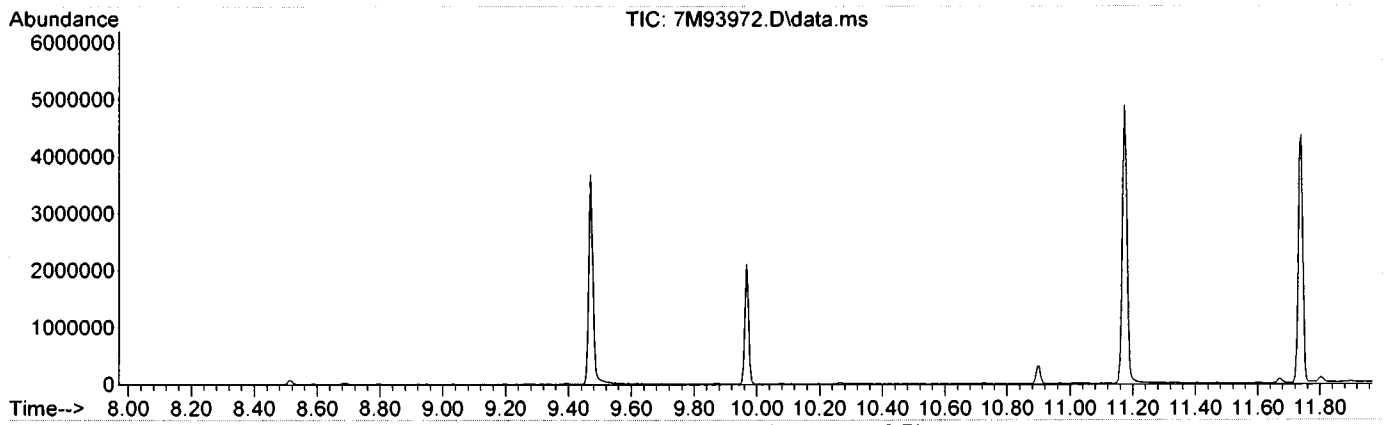

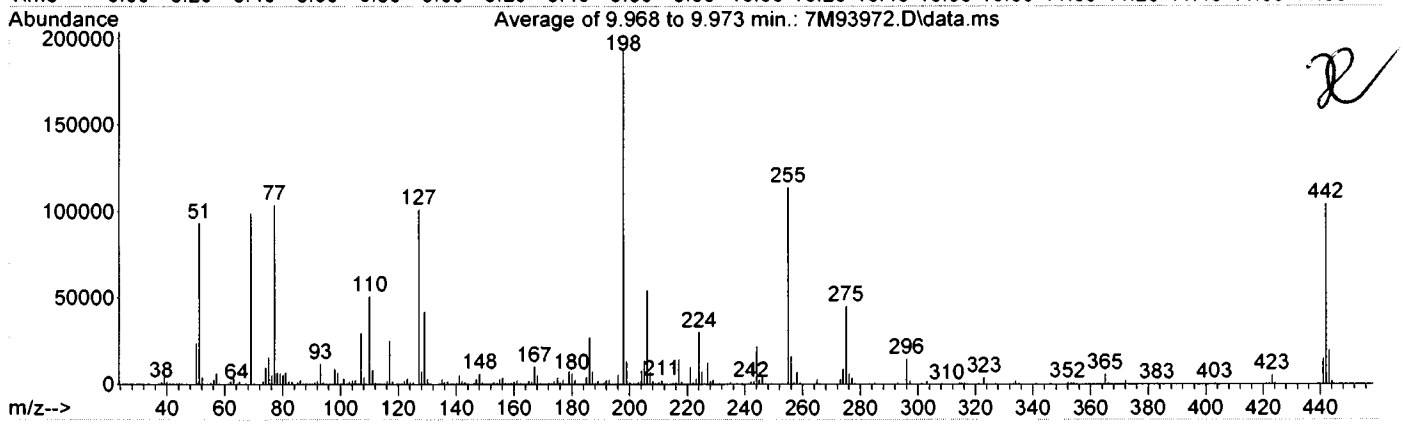

Spectrum Information: Average of 9.968 to 9.973 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.0	93340	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	51.0	99124	PASS
70	69	0.00	2	0.5	502	PASS
127	198	40	60	52.2	101400	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	194400	PASS
199	198	5	9	7.0	13535	PASS
275	198	10	30	23.3	45312	PASS
365	198	1	100	3.2	6162	PASS
441	443	0.01	100	74.7	14992	PASS
442	198	40	100	53.7	104416	PASS
443	442	17	23	19.2	20056	PASS

Form 5

8081617 0095

Tune Name: CAL DFTPP **Data File:** 7M94011.D
Instrument: GCMS 7 **Analysis Date:** 08/22/18 08:58
Method: EPA 8270D

Tune Scan/Time Range: Average of 9.962 to 9.962 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	47.5	79352	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	51.3	85696	PASS
70	69	0.00	2	0.6	478	PASS
127	198	40	60	51.5	85904	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	166912	PASS
199	198	5	9	7.4	12275	PASS
275	198	10	30	25.8	43120	PASS
365	198	1	100	3.5	5828	PASS
441	443	0.01	100	83.8	14166	PASS
442	198	40	100	53.3	88936	PASS
443	442	17	23	19.0	16904	PASS

Data File	Sample Number	Analysis Date:
7M94012.D	CAL BNA@50PPM	08/22/18 09:24
7M94013.D	WMB69959	08/22/18 10:09
7M94014.D	SMB69957(MS)	08/22/18 10:32
7M94015.D	SMB69957	08/22/18 10:55
7M94016.D	OMB69865	08/22/18 11:18
7M94017.D	AD06050-005(10X)	08/22/18 11:42
7M94018.D	AD05930-007(T)	08/22/18 12:05
7M94019.D	AD05930-013(T)	08/22/18 12:29
7M94020.D	AD06057-001	08/22/18 12:52
7M94021.D	EF-SPLP V-285163	08/22/18 13:15
7M94022.D	WMB69963	08/22/18 13:39
7M94023.D	WMB69955	08/22/18 14:02
7M94024.D	AD05980-008(R)	08/22/18 14:25
7M94025.D	AD05999-001	08/22/18 14:49

8081617 0096

Data Path : G:\GcMsData\2018\GCMS_7\Data\08-22-18\
Data File : 7M94011.D
Acq On : 22 Aug 2018 8:58
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2018\GCMS_7\MethodQt\7M_0821.M
Title : @GCMS_7,mg,625,8270
Last Update : Tue Aug 21 12:37:06 2018

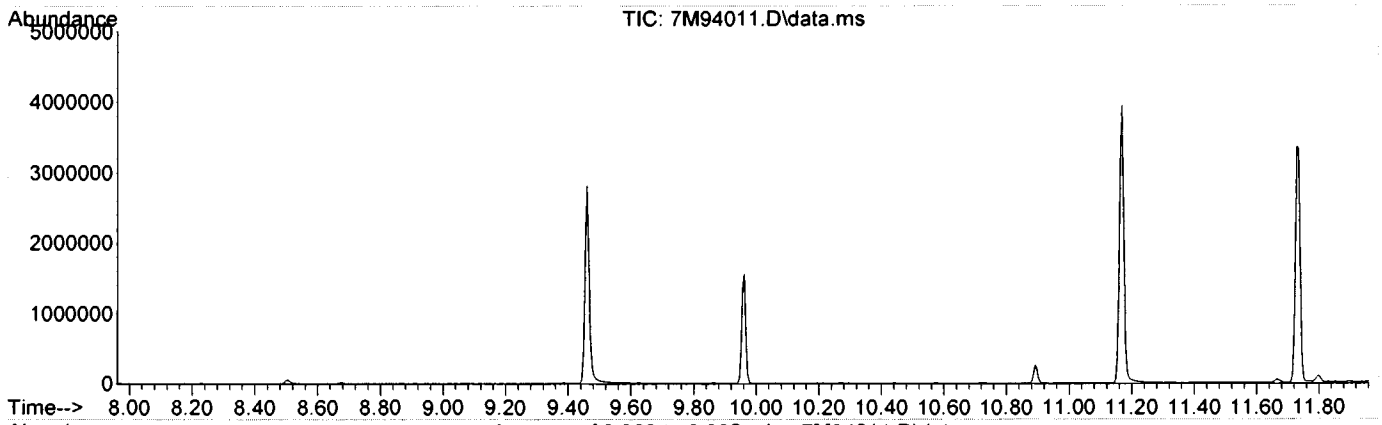

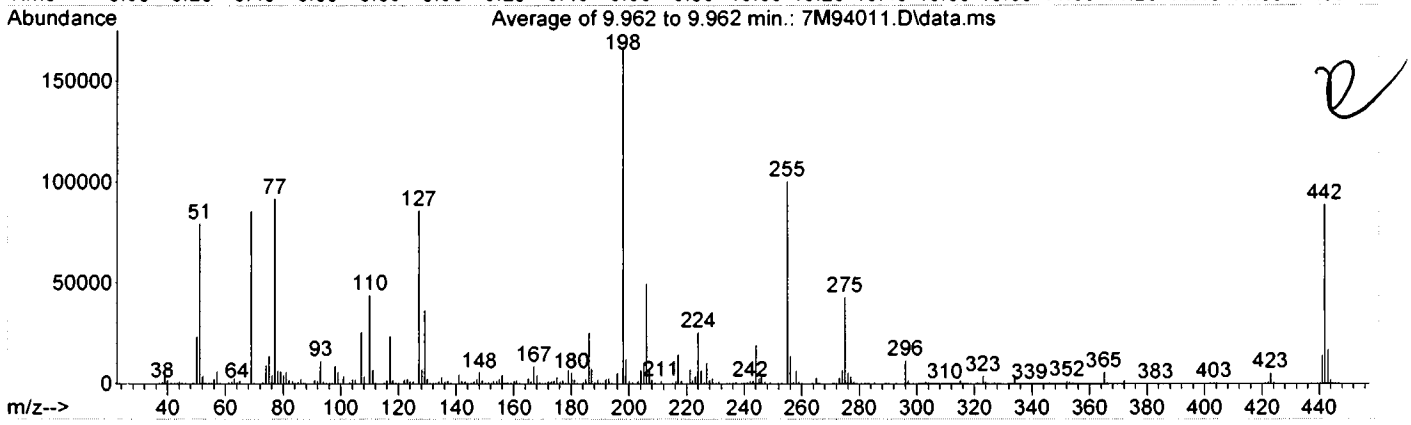

Spectrum Information: Average of 9.962 to 9.962 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.5	79352	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	51.3	85696	PASS
70	69	0.00	2	0.6	478	PASS
127	198	40	60	51.5	85904	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	166912	PASS
199	198	5	9	7.4	12275	PASS
275	198	10	30	25.8	43120	PASS
365	198	1	100	3.5	5828	PASS
441	443	0.01	100	83.8	14166	PASS
442	198	40	100	53.3	88936	PASS
443	442	17	23	19.0	16904	PASS

Form 5

8081617 0097

Tune Name: CAL DFTPP
Instrument: GCMS 7

Data File: 7M94026.D
Analysis Date: 08/22/18 15:14
Method: EPA 8270D

Tune Scan/Time Range: Average of 9.973 to 9.978 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	44.3	55776	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.4	58448	PASS
70	69	0.00	2	0.6	341	PASS
127	198	40	60	47.7	60040	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	125880	PASS
199	198	5	9	7.2	9024	PASS
275	198	10	30	24.2	30508	PASS
365	198	1	100	3.0	3775	PASS
441	443	0.01	100	75.0	11254	PASS
442	198	40	100	58.3	73336	PASS
443	442	17	23	20.5	15005	PASS

Data File	Sample Number	Analysis Date:
7M94027.D	CAL BNA@50PPM	08/22/18 15:45
7M94028.D	AD05999-001(MS)	08/22/18 16:11
7M94029.D	AD05999-001(MSD	08/22/18 16:34
7M94030.D	SMB69958(MS)	08/22/18 16:58
7M94031.D	SMB69958	08/22/18 17:21
7M94032.D	AD06068-004	08/22/18 17:44
7M94033.D	AD06068-004(MS)	08/22/18 18:07
7M94034.D	AD06068-004(MSD	08/22/18 18:31
7M94035.D	AD06068-001	08/22/18 18:54
7M94036.D	AD06068-002	08/22/18 19:17
7M94037.D	AD06068-003	08/22/18 19:40
7M94038.D	AD06042-004	08/22/18 20:03
7M94039.D	AD06042-006	08/22/18 20:27
7M94040.D	AD06042-008	08/22/18 20:50
7M94041.D	AD06042-010	08/22/18 21:13
7M94042.D	AD06027-001	08/22/18 21:36
7M94043.D	AD05985-001	08/22/18 21:59
7M94044.D	AD05985-003	08/22/18 22:22
7M94045.D	AD05985-006	08/22/18 22:45
7M94046.D	AD06026-001	08/22/18 23:09
7M94047.D	AD06026-003	08/22/18 23:32
7M94048.D	AD06065-001	08/22/18 23:55
7M94049.D	AD06069-001	08/23/18 00:18
7M94050.D	AD06053-001	08/23/18 00:41
7M94051.D	AD06053-002	08/23/18 01:04
7M94052.D	AD06053-003	08/23/18 01:27
7M94053.D	AD06073-001	08/23/18 01:50
7M94054.D	AD06073-002	08/23/18 02:13
7M94055.D	AD06073-003	08/23/18 02:36

8081617 0098

Data Path : G:\GcMsData\2018\GCMS_7\Data\08-2218\
Data File : 7M94026.D
Acq On : 22 Aug 2018 15:14
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2018\GCMS_7\MethodQt\7M_0821.M
Title : @GCMS_7,mg,625,8270
Last Update : Tue Aug 21 12:37:06 2018

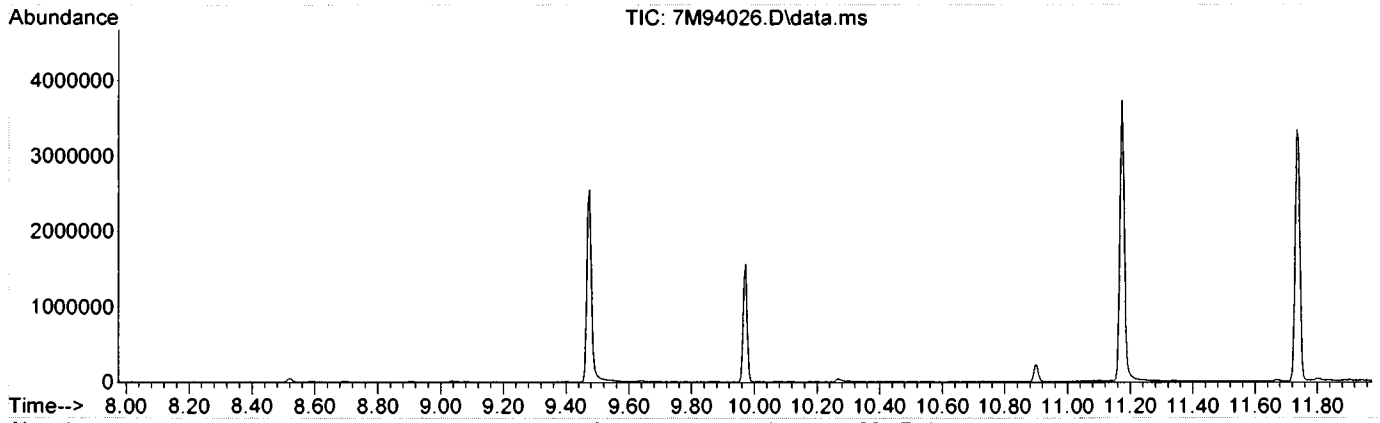

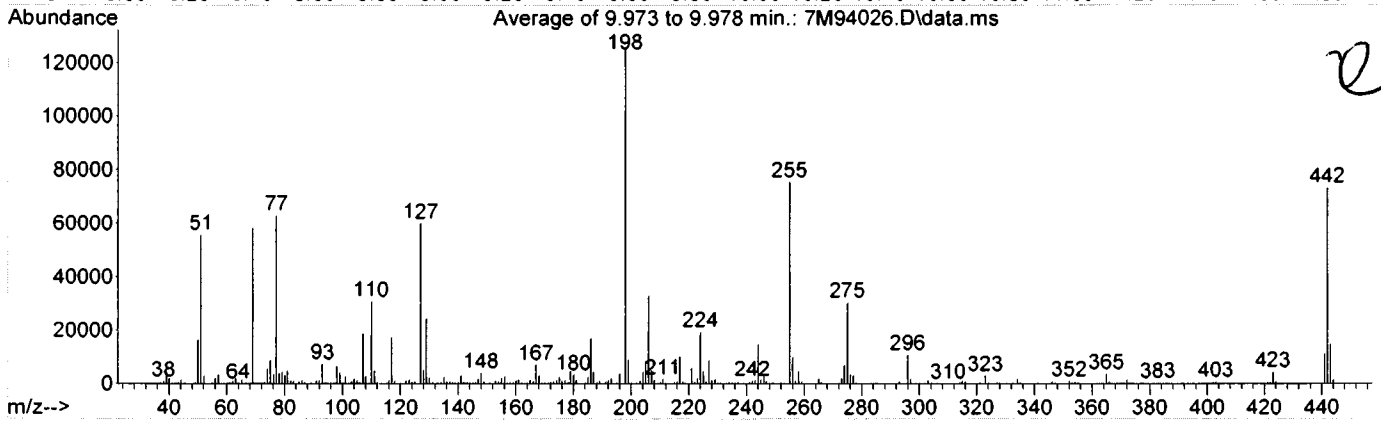

Spectrum Information: Average of 9.973 to 9.978 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.3	55776	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.4	58448	PASS
70	69	0.00	2	0.6	341	PASS
127	198	40	60	47.7	60040	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	125880	PASS
199	198	5	9	7.2	9024	PASS
275	198	10	30	24.2	30508	PASS
365	198	1	100	3.0	3775	PASS
441	443	0.01	100	75.0	11254	PASS
442	198	40	100	58.3	73336	PASS
443	442	17	23	20.5	15005	PASS

8081617 0099

Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M93981.D	CAL BNA@50PPM	08/21/18 12:11	2	7M93974.D	CAL BNA@2PPM	08/21/18 09:23
3	7M93973.D	CAL BNA@10PPM	08/21/18 08:59	4	7M93979.D	CAL BNA@20PPM	08/21/18 11:25
5	7M93978.D	CAL BNA@80PPM	08/21/18 11:02	6	7M93977.D	CAL BNA@120PPM	08/21/18 10:37
7	7M93976.D	CAL BNA@160PPM	08/21/18 10:14	8	7M93975.D	CAL BNA@196PPM	08/21/18 09:51
9	7M93980.D	CAL BNA@0.5PPM	08/21/18 11:48				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Qua	0.9857	0.9851	0.9844	1.0725	1.0114	0.9614	0.9868	1.0591	0.6411	0.965	2.60	0.997	0.998	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	3.0795	5.0985	3.0419	3.0060	3.1337	2.9826	3.1339	3.3246	-----	3.35	3.08	0.996	0.999	21		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.8036	2.0621	1.5498	1.8049	1.8725	1.8160	1.8680	2.0124	-----	1.85	2.98	0.996	0.999	8.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.2023	2.6011	2.0413	2.2571	2.2715	2.2380	2.3055	2.4846	-----	2.30	4.59	0.996	0.999	7.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Qua	1.8978	2.3813	2.1154	2.3677	1.6903	1.4775	1.3626	1.4784	-----	1.85	5.41	0.989	0.990	22	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.9156	3.4303	2.9097	4.1001	3.9484	3.8692	4.0580	3.6763	4.1615	3.79	5.50	0.996	0.997	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Qua	0.8530	1.1736	0.7626	0.8665	0.8421	0.8265	0.8683	0.9170	-----	0.889	5.54	0.997	0.999	14	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Qua	2.6601	3.4757	2.4217	2.7948	2.6613	2.5814	2.7101	2.9393	3.8174	2.90	5.56	0.995	0.998	16	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	3.3704	3.8873	3.0453	3.3495	3.4453	3.3539	3.4560	3.6896	-----	3.45	5.47	0.997	0.999	7.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.9366	4.2731	3.4067	3.8600	3.8551	3.8163	3.9398	4.1273	-----	3.90	5.49	0.998	0.999	6.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.4755	2.8058	2.2423	2.5479	2.4619	2.4128	2.5762	2.9044	-----	2.55	5.61	0.989	0.997	8.4	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Qua	3.2167	4.1698	3.0402	3.3963	3.2333	3.1397	3.1861	3.2658	-----	3.33	5.66	0.999	1.00	11	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.7422	3.2467	2.4429	2.7723	2.7525	2.7136	2.8069	3.0562	-----	2.82	5.74	0.995	0.999	8.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.5846	1.8145	1.4593	1.6079	1.5851	1.5545	1.5871	1.7764	-----	1.62	5.80	0.993	0.997	7.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.5028	1.7948	1.4026	1.5184	1.5125	1.4991	1.5008	1.6901	-----	1.55	5.92	0.993	0.997	8.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Qua	0.8216	0.6208	0.6287	0.6856	0.8720	0.8791	0.9096	1.0184	-----	0.805	5.90	0.992	0.999	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	2.5269	3.0040	2.3622	2.6102	2.5094	2.4037	2.3852	2.4516	-----	2.53	6.01	0.999	0.999	8.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Qua	1.4301	1.4871	1.3819	1.4097	1.4947	1.4421	1.4836	1.6638	1.5790	1.49	5.99	0.993	0.997	5.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	2.1161	2.4466	1.8948	2.1164	2.1028	2.1272	2.0340	2.0825	-----	2.12	6.11	0.999	0.999	7.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.6566	0.7926	0.6376	0.6665	0.6642	0.6431	0.6749	0.7285	-----	0.683	6.20	0.995	0.999	7.7	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Qua	1.3284	1.5406	1.3081	1.3591	1.3329	1.2999	1.1622	1.0942	2.3488	1.42	6.11	0.993	0.999	26	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.5101	1.7608	1.4507	1.5591	1.5497	1.5698	1.4573	1.3703	1.7678	1.56	6.12	0.995	0.999	8.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1246	0.1467	0.1263	0.1275	0.1271	0.1251	0.1317	0.1477	-----	0.132	6.23	0.990	0.998	7.2		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.5353	0.6523	0.5208	0.5348	0.5358	0.5234	0.5323	0.5107	-----	0.543	6.25	0.999	1.00	8.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.9074	1.0264	0.8440	0.9129	0.9344	0.9162	0.9193	0.9718	-----	0.929	6.44	0.998	0.999	5.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.2114	0.2219	0.1997	0.2118	0.2220	0.2143	0.2201	0.2406	-----	0.218	6.50	0.995	0.998	5.4	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Qua	0.4468	0.4958	0.4302	0.4526	0.4596	0.4382	0.4546	0.4640	0.5924	0.471	6.53	0.999	1.00	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.3260	-----	0.2605	0.3230	0.3532	0.3550	0.3671	0.3926	-----	0.340	6.60	0.997	0.999	12		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.5204	0.6102	0.4859	0.5249	0.5315	0.5177	0.5289	0.5719	-----	0.536	6.60	0.996	0.999	7.1	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Qua	0.3405	0.3757	0.3109	0.3379	0.3451	0.3364	0.3488	0.3748	0.4636	0.359	6.69	0.997	0.999	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3570	0.4074	0.3409	0.3583	0.3692	0.3656	0.3731	0.4033	-----	0.372	6.76	0.996	0.999	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Qua	1.1784	1.3618	1.0809	1.1564	1.2092	1.1847	1.2392	1.3111	1.7256	1.27	6.82	0.997	0.999	15	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4341	0.3833	0.3367	0.4494	0.4235	0.3694	0.3509	0.3312	0.4313	0.390	6.85	0.988	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.2055	0.2326	0.1944	0.2057	0.2177	0.2121	0.2216	0.2378	-----	0.216	6.92	0.996	0.999	6.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1241	0.1437	0.1138	0.1263	0.1293	0.1263	0.1270	0.1476	-----	0.130	7.13	0.989	0.995	8.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.3803	0.4144	0.3542	0.3702	0.3835	0.3816	0.3904	0.4100	-----	0.386	7.23	0.998	1.00	5.1	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.7772	0.8895	0.7469	0.7925	0.8154	0.8034	0.8305	0.8911	-----	0.818	7.36	0.996	0.999	6.2	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.7582	0.8806	0.6970	0.7517	0.7755	0.7647	0.8105	0.8533	-----	0.786	7.44	0.997	0.999	7.5	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (	1	0	Avg	0.7690	0.8861	0.7228	0.7718	0.7967	0.7841	0.8202	0.8724	-----	0.803	7.36	0.996	0.999	6.8		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.9328	1.0546	0.8799	0.9512	0.9643	0.9493	1.0015	1.0724	-----	0.976	7.73	0.995	0.999	6.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5695	0.6376	0.5008	0.5368	0.5721	0.5629	0.5372	0.6277	-----	0.568	7.50	0.990	0.993	8.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.44
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Form 6
Initial Calibration

Method: EPA 8270D

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M93981.D	CAL BNA@50PPM	08/21/18 12:11	2	7M93974.D	CAL BNA@2PPM	08/21/18 09:23
3	7M93973.D	CAL BNA@10PPM	08/21/18 08:59	4	7M93979.D	CAL BNA@20PPM	08/21/18 11:25
5	7M93978.D	CAL BNA@80PPM	08/21/18 11:02	6	7M93977.D	CAL BNA@120PPM	08/21/18 10:37
7	7M93976.D	CAL BNA@160PPM	08/21/18 10:14	8	7M93975.D	CAL BNA@196PPM	08/21/18 09:51
9	7M93980.D	CAL BNA@0.5PPM	08/21/18 11:48				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.2097	0.0562	0.0921	0.1609	0.2454	0.2640	0.2607	0.3137	-----	0.200	7.49	0.984	0.995	45	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3798	0.3876	0.3558	0.3722	0.3940	0.3882	0.3595	0.4271	-----	0.383	7.58	0.988	0.991	5.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4056	0.4507	0.3800	0.3731	0.4182	0.4059	0.3828	0.4589	-----	0.409	7.62	0.987	0.991	7.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.2627	1.3450	1.1498	1.2349	1.2485	1.2122	1.1325	1.3773	-----	1.25	7.65	0.993	0.994	6.8		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1907	1.3086	1.1227	1.1628	1.1976	1.1755	1.1537	1.3322	-----	1.21	7.76	0.991	0.995	6.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.9366	1.0646	0.8524	0.9187	0.9290	0.9588	0.7265	0.7445	-----	0.891	8.04	0.983	0.993	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.9366	1.0646	0.8524	0.9187	0.9290	0.9588	0.7265	0.7445	-----	0.891	8.04	0.983	0.993	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8266	0.9370	0.7691	0.8037	0.8304	0.8452	0.8064	0.9355	-----	0.844	7.82	0.991	0.995	7.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.5961	0.6806	0.5365	0.5892	0.5764	0.5416	0.4752	0.5542	-----	0.569	7.83	0.988	0.988	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4701	0.5240	0.4473	0.4582	0.4775	0.4676	0.4431	0.4615	-----	0.469	8.02	0.999	0.999	5.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.7661	1.9018	1.6040	1.7146	1.7841	1.8577	1.4423	1.5308	-----	1.70	8.11	0.989	0.994	9.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3914	1.5797	1.3188	1.3863	1.4153	1.3751	1.3316	1.5492	-----	1.42	7.98	0.990	0.994	6.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3359	0.3467	0.3042	0.3144	0.3404	0.3451	0.2708	0.2646	-----	0.315	8.03	0.970	0.992	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2175	1.3950	1.0821	1.1720	1.2200	1.2384	1.1643	1.1530	-----	1.21	8.27	0.998	0.999	7.6	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3332	0.3129	0.2863	0.3169	0.3226	0.3150	0.2785	0.2790	-----	0.306	8.18	0.992	0.998	6.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1764	0.0714	0.1052	0.1404	0.1980	0.2124	0.2045	0.2060	-----	0.164	8.28	0.995	0.997	32	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Qua	1.7023	1.9529	1.5457	1.6482	1.7420	1.6917	1.6387	1.7644	2.6662	1.82	8.42	0.998	0.998	19	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.4385	0.4479	0.3994	0.4242	0.4441	0.4371	0.4155	0.5017	-----	0.439	8.39	0.985	0.991	6.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Avg	0.3724	0.3813	0.3136	0.3608	0.3774	0.3527	0.3188	0.2865	-----	0.345	8.32	0.988	0.998	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3396	0.3563	0.3066	0.3556	0.3600	0.3580	0.3415	0.4100	-----	0.354	8.53	0.986	0.992	8.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4336	1.5860	1.2787	1.3702	1.4548	1.4469	1.3459	1.4600	-----	1.42	8.74	0.997	0.997	6.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6799	0.7274	0.6071	0.6539	0.6914	0.6941	0.6483	0.7817	-----	0.686	8.73	0.986	0.991	7.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.4197	1.5543	1.2710	1.3896	1.4137	1.3982	1.3138	1.5430	-----	1.41	8.61	0.990	0.993	7.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3878	0.3651	0.3403	0.3727	0.3928	0.3940	0.3428	0.3510	-----	0.368	8.74	0.993	0.997	6.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.4199	0.4588	0.3804	0.4036	0.4249	0.4141	0.3930	0.4466	-----	0.418	9.36	0.993	0.995	6.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.1307	0.0792	0.0904	0.1185	0.1413	0.1516	0.1624	0.1600	-----	0.129	8.78	0.997	0.999	24	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6905	0.7302	0.6223	0.6774	0.7048	0.7214	0.7643	0.7128	-----	0.703	8.84	0.998	0.999	6.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.0808	0.0923	0.0717	0.0761	0.0881	0.0908	0.1070	0.1153	-----	0.0903	8.97	0.984	0.999	16		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	1.0171	1.1444	0.9203	1.0225	1.0324	1.0037	0.8282	0.7582	-----	0.966	8.88	0.982	0.996	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2137	0.2339	0.1974	0.2129	0.2288	0.2261	0.2397	0.2592	-----	0.227	9.21	0.994	0.999	8.3	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2113	0.2373	0.1877	0.2025	0.2176	0.2241	0.2303	0.2512	-----	0.220	9.29	0.991	0.999	9.1	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.6377	0.7284	0.5882	0.6268	0.6433	0.6337	0.6370	0.6592	-----	0.644	9.55	0.999	1.00	6.1	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1299	0.1115	0.1037	0.1191	0.1429	0.1463	0.1538	0.1652	-----	0.134	9.48	0.995	1.00	16	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.1636	1.3588	1.0518	1.1454	1.1932	1.1873	1.2634	1.3531	-----	1.21	9.71	0.996	0.999	8.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.2035	1.3942	1.0957	1.1871	1.2452	1.2350	1.3529	1.3049	-----	1.25	9.76	0.998	0.998	7.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.0832	1.1807	1.0120	1.0763	1.1266	1.1283	1.1892	1.2587	-----	1.13	9.93	0.996	1.00	6.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.3946	1.5494	1.2289	1.3318	1.4339	1.4412	1.4836	1.5672	1.7609	1.47	10.31	0.998	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.3110	1.3922	1.1685	1.2591	1.3522	1.3636	1.4097	1.5070	-----	1.35	11.03	0.996	0.999	7.6	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3266	1.3963	1.2119	1.2493	1.3411	1.3349	1.3111	1.3667	-----	1.32	11.29	0.999	0.999	4.6	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.4875	0.2621	0.3088	0.5156	0.4584	0.4184	0.3805	0.3887	-----	0.403	11.17	0.988	0.996	22		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6810	0.7011	0.6112	0.6471	0.6857	0.6921	0.6819	0.7257	-----	0.678	11.47	0.998	0.999	5.1		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.44
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

8081617 0101

Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M93981.D	CAL BNA@50PPM	08/21/18 12:11	2	7M93974.D	CAL BNA@2PPM	08/21/18 09:23
3	7M93973.D	CAL BNA@10PPM	08/21/18 08:59	4	7M93979.D	CAL BNA@20PPM	08/21/18 11:25
5	7M93978.D	CAL BNA@80PPM	08/21/18 11:02	6	7M93977.D	CAL BNA@120PPM	08/21/18 10:37
7	7M93976.D	CAL BNA@160PPM	08/21/18 10:14	8	7M93975.D	CAL BNA@196PPM	08/21/18 09:51
9	7M93980.D	CAL BNA@0.5PPM	08/21/18 11:48				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2507	0.2765	0.2150	0.2367	0.2492	0.2518	0.2467	0.2574	-----	0.248	11.41	0.999	0.999	7.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4231	0.4325	0.3842	0.4017	0.4319	0.4362	0.4264	0.4413	-----	0.422	11.81	0.999	1.00	4.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.6374	0.6857	0.5519	0.5995	0.6296	0.6430	0.6172	0.6395	-----	0.626	12.06	0.999	0.999	6.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3753	0.3000	0.3089	0.3334	0.3858	0.3882	0.3893	0.4096	-----	0.361	12.17	0.998	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.3822	0.3752	0.3146	0.3778	0.3503	0.3174	0.2972	0.2950	-----	0.339	12.69	0.992	0.998	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2132	1.3486	1.1031	1.1515	1.2184	1.2190	1.1912	1.2492	-----	1.21	12.72	0.999	0.999	5.9	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1431	1.2264	1.0302	1.0799	1.1697	1.2100	1.1925	1.0737	-----	1.14	12.76	0.993	0.997	6.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.8450	0.9339	0.7795	0.7944	0.8546	0.8816	0.8261	0.6856	-----	0.825	12.77	0.975	0.992	9.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.6660	1.7071	1.5086	1.5531	1.7176	1.7169	1.7390	1.8762	-----	1.69	13.55	0.997	0.999	6.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.3367	1.3079	1.1670	1.2531	1.3462	1.2838	1.3614	1.4861	-----	1.32	13.99	0.996	0.999	7.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1896	1.4020	1.0830	1.1481	1.2419	1.3150	1.3431	1.4775	-----	1.28	14.02	0.993	0.999	10	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.2199	1.3288	1.0634	1.1715	1.2579	1.2572	1.2929	1.4084	-----	1.25	14.36	0.995	0.999	8.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.2080	1.3044	1.0811	1.1351	1.2498	1.2347	1.2870	1.4275	-----	1.24	15.73	0.995	0.999	8.6	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Qua	1.0028	1.1239	0.8939	0.9552	1.0506	1.0393	1.1089	1.2821	-----	1.06	15.75	0.985	0.997	11	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.0019	1.1782	0.9040	0.9654	1.0319	1.0173	1.0436	1.1280	-----	1.03	16.11	0.996	0.999	8.4	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.44
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M94012.D **Instrument:** GCMS 7

Cont Calibration Date/Time 8/22/2018 9:24:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.56	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.60	54.59	50	**		0.965	1.036	9.17	
Pyridine	1	0		3.07	52.71	50	**		3.350	3.089	5.43	
N-Nitrosodimethylamine	1	0		2.97	50.74	50	**		1.849	1.876	1.49	
2-Fluorophenol	1	0	S	4.59	48.61	50	**		2.300	2.236	2.77	
Benzaldehyde	1	0		5.41	52.00	50	20	0.01	1.846	1.741	3.99	
Aniline	1	0		5.50	52.27	50	**		3.786	3.957	4.53	
Pentachloroethane	1	0		5.54	53.85	50	**	0.05	0.889	0.866	7.71	
bis(2-Chloroethyl)ether	1	0		5.55	54.25	50	20	0.7	2.896	2.701	8.50	
Phenol-d5	1	0	S	5.47	48.65	50	**		3.450	3.356	2.70	
Phenol	1	0		5.48	48.91	50	20	0.8	3.902	3.817	2.19	
2-Chlorophenol	1	0		5.60	49.03	50	20	0.8	2.553	2.504	1.94	
N-Decane	1	0		5.66	52.06	50	**	0.05	3.331	3.282	4.11	
1,3-Dichlorobenzene	1	0		5.74	48.57	50	**		2.817	2.736	2.86	
1,4-Dichlorobenzene-d4	1	0	I	5.78	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.80	49.15	50	20		1.621	1.594	1.69	
1,2-Dichlorobenzene	1	0		5.92	48.48	50	**		1.553	1.505	3.04	
Benzyl alcohol	1	0		5.90	55.03	50	**		0.805	0.871	10.06	
bis(2-chloroisopropyl)ether	1	0		6.01	51.22	50	20	0.01	2.532	2.593	2.43	
2-Methylphenol	1	0		5.99	54.46	50	20	0.7	1.486	1.477	8.92	
Acetophenone	1	0		6.11	50.46	50	20	0.01	2.115	2.135	0.92	
Hexachloroethane	1	0		6.20	48.06	50	20	0.3	0.683	0.657	3.88	
N-Nitroso-di-n-propylamine	1	0		6.11	49.65	50	20	0.5	1.419	1.359	0.70	
3&4-Methylphenol	1	0		6.11	49.48	50	20		1.555	1.539	1.04	
Naphthalene-d8	1	0	I	6.80	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.23	23.63	25	**		0.132	0.125	5.49	
Nitrobenzene	1	0		6.24	50.24	50	20	0.2	0.543	0.546	0.48	
Isophorone	1	0		6.44	49.66	50	20	0.4	0.929	0.923	0.69	
2-Nitrophenol	1	0		6.50	48.33	50	20	0.1	0.218	0.210	3.33	
2,4-Dimethylphenol	1	0		6.53	50.68	50	20	0.2	0.471	0.446	1.36	
Benzoic Acid	1	0		6.60	45.54	50	**		0.340	0.296	8.93	
bis(2-Chloroethoxy)methane	1	0		6.60	48.52	50	20	0.3	0.536	0.521	2.96	
2,4-Dichlorophenol	1	0		6.69	51.78	50	20	0.2	0.359	0.335	3.57	
1,2,4-Trichlorobenzene	1	0		6.75	48.00	50	**		0.372	0.357	4.00	
Naphthalene	1	0		6.82	52.36	50	20	0.7	1.272	1.192	4.72	
4-Chloroaniline	1	0		6.85	56.43	50	20	0.01	0.390	0.440	12.85	
Hexachlorobutadiene	1	0		6.91	47.95	50	20	0.01	0.216	0.207	4.09	
Caprolactam	1	0		7.11	48.33	50	20	0.01	0.130	0.125	3.34	
4-Chloro-3-methylphenol	1	0		7.22	49.85	50	20	0.2	0.386	0.384	0.31	
2-Methylnaphthalene	1	0		7.36	48.02	50	**	0.4	0.818	0.786	3.96	
1-Methylnaphthalene	1	0		7.44	48.04	50	**	0.4	0.786	0.756	3.93	
Methylnaphthalenes	1	0		7.36	95.97	100	**			0.771	4.03	
1,1'-Biphenyl	1	0		7.72	48.44	50	20	0.01	0.976	0.945	3.13	
Acenaphthene-d10	1	0	I	8.23	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.49	48.65	50	20	0.01	0.568	0.553	2.70	
Hexachlorocyclopentadiene	1	0		7.48	48.00	50	20	0.05	0.200	0.199	4.00	
2,4,6-Trichlorophenol	1	0		7.57	51.37	50	20	0.2	0.383	0.394	2.74	
2,4,5-Trichlorophenol	1	0		7.61	47.89	50	20	0.2	0.409	0.392	4.22	
2-Fluorobiphenyl	1	0	S	7.64	24.76	25	**		1.245	1.233	0.98	
2-Chloronaphthalene	1	0		7.75	48.38	50	20	0.8	1.206	1.166	3.24	
1,4-Dimethylnaphthalene	1	0		8.03	51.52	50	**		0.891	0.918	3.03	
Dimethylnaphthalenes	1	0		8.03	51.52	50	20			0.918	3.03	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M94012.D **Instrument:** GCMS 7

Cont Calibration Date/Time 8/22/2018 9:24:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.81	48.78	50	**		0.844	0.824	2.44	
2-Nitroaniline	1	0		7.82	52.54	50	20	0.01	0.569	0.598	5.07	
Coumarin	1	0		8.01	49.18		**		0.469			
Acenaphthylene	1	0		8.10	50.54	50	20	0.9	1.700	1.719	1.08	
Dimethylphthalate	1	0		7.97	49.21	50	20	0.01	1.418	1.396	1.58	
2,6-Dinitrotoluene	1	0		8.02	53.22	50	20	0.2	0.315	0.336	6.44	
Acenaphthene	1	0		8.26	49.91	50	20	0.9	1.205	1.203	0.18	
3-Nitroaniline	1	0		8.17	54.38	50	20	0.01	0.306	0.332	8.76	
2,4-Dinitrophenol	1	0		8.27	47.35	50	20	0.01	0.164	0.168	5.31	
Dibenzofuran	1	0		8.41	51.24	50	20	0.8	1.817	1.699	2.48	
2,4-Dinitrotoluene	1	0		8.38	49.31	50	20	0.2	0.439	0.433	1.38	
4-Nitrophenol	1	0		8.31	50.06	50	20	0.01	0.345	0.346	0.13	
2,3,4,6-Tetrachlorophenol	1	0		8.52	48.10	50	20	0.01	0.354	0.340	3.81	
Fluorene	1	0		8.73	50.19	50	20	0.9	1.422	1.428	0.39	
4-Chlorophenyl-phenylether	1	0		8.72	49.47	50	20	0.4	0.686	0.678	1.06	
Diethylphthalate	1	0		8.60	50.65	50	20	0.01	1.413	1.431	1.30	
4-Nitroaniline	1	0		8.73	51.57	50	20	0.01	0.368	0.380	3.13	
Atrazine	1	0		9.35	47.86	50	20	0.01	0.418	0.400	4.28	
Phenanthrene-d10	1	0	I	9.67	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.77	45.78	50	20	0.01	0.129	0.126	8.45	
n-Nitrosodiphenylamine	1	0		8.83	48.02	50	20	0.01	0.703	0.675	3.97	
2,4,6-Tribromophenol	1	0	S	8.96	51.02	50	**		0.090	0.079	2.04	
1,2-Diphenylhydrazine	1	0		8.87	53.57	50	**		0.966	1.035	7.14	
4-Bromophenyl-phenylether	1	0		9.20	46.53	50	20	0.1	0.227	0.211	6.93	
Hexachlorobenzene	1	0		9.28	46.06	50	20	0.1	0.220	0.203	7.89	
N-Octadecane	1	0		9.55	50.17	50	**	0.05	0.644	0.647	0.34	
Pentachlorophenol	1	0		9.48	47.70	50	20	0.05	0.134	0.125	4.59	
Phenanthrene	1	0		9.70	47.29	50	20	0.7	1.215	1.149	5.41	
Anthracene	1	0		9.75	47.55	50	20	0.7	1.252	1.191	4.89	
Carbazole	1	0		9.92	47.65	50	20	0.01	1.132	1.079	4.69	
Di-n-butylphthalate	1	0		10.30	46.75	50	20	0.01	1.466	1.371	6.49	
Fluoranthene	1	0		11.03	47.35	50	20	0.6	1.345	1.274	5.30	
Chrysene-d12	1	0	I	12.72	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.29	49.90	50	20	0.6	1.317	1.315	0.19	
Benzidine	1	0		11.17	51.14	50	**		0.403	0.467	2.28	
Terphenyl-d14	1	0	S	11.47	24.68	25	**		0.678	0.670	1.27	
4,4'-DDE	1	0		11.41	49.96		**		0.248			
4,4'-DDD	1	0		11.81	49.76		**		0.422			
Butylbenzylphthalate	1	0		12.06	51.24	50	20	0.01	0.626	0.641	2.47	
4,4'-DDT	1	0		12.16	52.62		**		0.361			
3,3'-Dichlorobenzidine	1	0		12.68	53.50	50	20	0.01	0.339	0.379	7.00	
Benzo[a]anthracene	1	0		12.71	49.54	50	20	0.8	1.212	1.201	0.92	
Chrysene	1	0		12.75	49.98	50	20	0.7	1.141	1.140	0.03	
bis(2-Ethylhexyl)phthalate	1	0		12.76	50.34	50	20	0.01	0.825	0.831	0.68	
Perylene-d12	1	0	I	14.35	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.51	49.47	50	20	0.01	1.686	1.668	1.06	
Benzo[b]fluoranthene	1	0		13.93	52.85	50	20	0.7	1.318	1.393	5.71	
Benzo[k]fluoranthene	1	0		13.96	49.89	50	20	0.7	1.275	1.272	0.23	
Benzo[a]pyrene	1	0		14.29	48.69	50	20	0.7	1.250	1.217	2.62	
Indeno[1,2,3-cd]pyrene	1	0		15.65	49.09	50	20	0.5	1.241	1.218	1.82	
Dibenzo[a,h]anthracene	1	0		15.67	54.99	50	20	0.4	1.057	1.018	9.97	
Benzo[g,h,i]perylene	1	0		16.02	48.90	50	20	0.5	1.034	1.011	2.20	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M94027.D **Instrument:** GCMS 7

Cont Calibration Date/Time 8/22/2018 3:45:00 P Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.55	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.59	53.84	50	**		0.965	1.021	7.69	
Pyridine	1	0		3.06	49.60	50	**		3.350	2.899	0.81	
N-Nitrosodimethylamine	1	0		2.97	50.30	50	**		1.849	1.860	0.59	
2-Fluorophenol	1	0	S	4.59	46.80	50	**		2.300	2.153	6.41	
Benzaldehyde	1	0		5.40	51.62	50	20	0.01	1.846	1.729	3.25	
Aniline	1	0		5.50	50.59	50	**		3.786	3.830	1.18	
Pentachloroethane	1	0		5.54	51.92	50	**	0.05	0.889	0.834	3.84	
bis(2-Chloroethyl)ether	1	0		5.55	52.09	50	20	0.7	2.896	2.587	4.18	
Phenol-d5	1	0	S	5.47	47.66	50	**		3.450	3.288	4.68	
Phenol	1	0		5.48	48.45	50	20	0.8	3.902	3.781	3.09	
2-Chlorophenol	1	0		5.60	46.58	50	20	0.8	2.553	2.379	6.84	
N-Decane	1	0		5.65	51.37	50	**	0.05	3.331	3.238	2.73	
1,3-Dichlorobenzene	1	0		5.73	48.25	50	**		2.817	2.718	3.51	
1,4-Dichlorobenzene-d4	1	0	I	5.78	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.80	49.79	50	20		1.621	1.614	0.42	
1,2-Dichlorobenzene	1	0		5.92	49.11	50	**		1.553	1.525	1.78	
Benzyl alcohol	1	0		5.90	57.43	50	**		0.805	0.913	14.87	
bis(2-chloroisopropyl)ether	1	0		6.01	53.03	50	20	0.01	2.532	2.685	6.05	
2-Methylphenol	1	0		5.99	54.50	50	20	0.7	1.486	1.478	9.00	
Acetophenone	1	0		6.11	50.90	50	20	0.01	2.115	2.153	1.81	
Hexachloroethane	1	0		6.20	49.00	50	20	0.3	0.683	0.669	1.99	
N-Nitroso-di-n-propylamine	1	0		6.11	51.16	50	20	0.5	1.419	1.397	2.31	
3&4-Methylphenol	1	0		6.11	50.08	50	20		1.555	1.557	0.15	
Naphthalene-d8	1	0	I	6.80	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.23	24.26	25	**		0.132	0.128	2.97	
Nitrobenzene	1	0		6.24	50.28	50	20	0.2	0.543	0.546	0.56	
Isophorone	1	0		6.44	50.53	50	20	0.4	0.929	0.939	1.07	
2-Nitrophenol	1	0		6.50	48.77	50	20	0.1	0.218	0.212	2.46	
2,4-Dimethylphenol	1	0		6.53	51.58	50	20	0.2	0.471	0.454	3.17	
Benzoic Acid	1	0		6.60	49.87	50	**		0.340	0.326	0.26	
bis(2-Chloroethoxy)methane	1	0		6.60	49.00	50	20	0.3	0.536	0.526	2.01	
2,4-Dichlorophenol	1	0		6.69	51.53	50	20	0.2	0.359	0.333	3.06	
1,2,4-Trichlorobenzene	1	0		6.76	49.77	50	**		0.372	0.370	0.46	
Naphthalene	1	0		6.82	52.03	50	20	0.7	1.272	1.185	4.06	
4-Chloroaniline	1	0		6.85	57.84	50	20	0.01	0.390	0.451	15.69	
Hexachlorobutadiene	1	0		6.91	48.00	50	20	0.01	0.216	0.207	4.00	
Caprolactam	1	0		7.12	48.42	50	20	0.01	0.130	0.126	3.15	
4-Chloro-3-methylphenol	1	0		7.22	49.80	50	20	0.2	0.386	0.384	0.40	
2-Methylnaphthalene	1	0		7.36	49.54	50	**	0.4	0.818	0.811	0.91	
1-Methylnaphthalene	1	0		7.44	48.80	50	**	0.4	0.786	0.768	2.40	
Methylnaphthalenes	1	0		7.36	98.36	100	**			0.790	1.64	
1,1'-Biphenyl	1	0		7.73	48.58	50	20	0.01	0.976	0.948	2.84	
Acenaphthene-d10	1	0	I	8.23	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.49	49.64	50	20	0.01	0.568	0.564	0.72	
Hexachlorocyclopentadiene	1	0		7.48	49.34	50	20	0.05	0.200	0.205	1.33	
2,4,6-Trichlorophenol	1	0		7.57	49.58	50	20	0.2	0.383	0.380	0.83	
2,4,5-Trichlorophenol	1	0		7.61	50.10	50	20	0.2	0.409	0.410	0.20	
2-Fluorobiphenyl	1	0	S	7.64	24.81	25	**		1.245	1.236	0.77	
2-Chloronaphthalene	1	0		7.75	48.39	50	20	0.8	1.206	1.167	3.22	
1,4-Dimethylnaphthalene	1	0		8.03	51.93	50	**		0.891	0.926	3.86	
Dimethylnaphthalenes	1	0		8.03	51.93	50	20			0.926	3.86	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M94027.D **Instrument:** GCMS 7

Cont Calibration Date/Time 8/22/2018 3:45:00 P Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.81	47.70	50	**		0.844	0.805	4.60	
2-Nitroaniline	1	0		7.83	52.87	50	20	0.01	0.569	0.601	5.74	
Coumarin	1	0		8.01	50.06		**		0.469			
Acenaphthylene	1	0		8.11	51.12	50	20	0.9	1.700	1.738	2.25	
Dimethylphthalate	1	0		7.97	49.25	50	20	0.01	1.418	1.397	1.50	
2,6-Dinitrotoluene	1	0		8.03	52.61	50	20	0.2	0.315	0.332	5.23	
Acenaphthene	1	0		8.26	49.42	50	20	0.9	1.205	1.191	1.17	
3-Nitroaniline	1	0		8.17	55.39	50	20	0.01	0.306	0.339	10.79	
2,4-Dinitrophenol	1	0		8.27	49.88	50	20	0.01	0.164	0.178	0.23	
Dibenzofuran	1	0		8.41	50.79	50	20	0.8	1.817	1.684	1.59	
2,4-Dinitrotoluene	1	0		8.39	49.18	50	20	0.2	0.439	0.431	1.65	
4-Nitrophenol	1	0		8.31	52.58	50	20	0.01	0.345	0.363	5.16	
2,3,4,6-Tetrachlorophenol	1	0		8.52	48.53	50	20	0.01	0.354	0.343	2.94	
Fluorene	1	0		8.73	50.11	50	20	0.9	1.422	1.425	0.22	
4-Chlorophenyl-phenylether	1	0		8.72	48.34	50	20	0.4	0.686	0.663	3.33	
Diethylphthalate	1	0		8.60	50.19	50	20	0.01	1.413	1.418	0.39	
4-Nitroaniline	1	0		8.73	51.92	50	20	0.01	0.368	0.383	3.85	
Atrazine	1	0		9.36	49.13	50	20	0.01	0.418	0.410	1.74	
Phenanthrene-d10	1	0	I	9.68	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.77	44.32	50	20	0.01	0.129	0.122	11.35	
n-Nitrosodiphenylamine	1	0		8.83	48.17	50	20	0.01	0.703	0.677	3.66	
2,4,6-Tribromophenol	1	0	S	8.96	51.85	50	**		0.090	0.081	3.69	
1,2-Diphenylhydrazine	1	0		8.88	52.92	50	**		0.966	1.022	5.83	
4-Bromophenyl-phenylether	1	0		9.20	47.83	50	20	0.1	0.227	0.217	4.34	
Hexachlorobenzene	1	0		9.28	48.39	50	20	0.1	0.220	0.213	3.23	
N-Octadecane	1	0		9.55	50.46	50	**	0.05	0.644	0.650	0.93	
Pentachlorophenol	1	0		9.48	50.03	50	20	0.05	0.134	0.131	0.07	
Phenanthrene	1	0		9.71	48.65	50	20	0.7	1.215	1.182	2.69	
Anthracene	1	0		9.76	47.78	50	20	0.7	1.252	1.197	4.43	
Carbazole	1	0		9.92	48.42	50	20	0.01	1.132	1.096	3.16	
Di-n-butylphthalate	1	0		10.30	47.29	50	20	0.01	1.466	1.386	5.42	
Fluoranthene	1	0		11.03	48.39	50	20	0.6	1.345	1.302	3.21	
Chrysene-d12	1	0	I	12.72	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.29	49.34	50	20	0.6	1.317	1.300	1.31	
Benzidine	1	0		11.17	51.21	50	**		0.403	0.468	2.43	
Terphenyl-d14	1	0	S	11.47	24.69	25	**		0.678	0.670	1.24	
4,4'-DDE	1	0		11.41	48.72		**		0.248			
4,4'-DDD	1	0		11.81	49.69		**		0.422			
Butylbenzylphthalate	1	0		12.06	49.66	50	20	0.01	0.626	0.621	0.67	
4,4'-DDT	1	0		12.16	51.85		**		0.361			
3,3'-Dichlorobenzidine	1	0		12.68	51.55	50	20	0.01	0.339	0.366	3.09	
Benzo[a]anthracene	1	0		12.71	49.98	50	20	0.8	1.212	1.211	0.05	
Chrysene	1	0		12.75	47.89	50	20	0.7	1.141	1.093	4.22	
bis(2-Ethylhexyl)phthalate	1	0		12.76	50.68	50	20	0.01	0.825	0.836	1.37	
Perylene-d12	1	0	I	14.37	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.52	48.11	50	20	0.01	1.686	1.622	3.79	
Benzo[b]fluoranthene	1	0		13.95	45.90	50	20	0.7	1.318	1.210	8.20	
Benzo[k]fluoranthene	1	0		13.98	45.94	50	20	0.7	1.275	1.172	8.12	
Benzo[a]pyrene	1	0		14.31	48.44	50	20	0.7	1.250	1.211	3.12	
Indeno[1,2,3-cd]pyrene	1	0		15.67	49.47	50	20	0.5	1.241	1.228	1.06	
Dibenzo[a,h]anthracene	1	0		15.69	54.86	50	20	0.4	1.057	1.015	9.72	
Benzo[g,h,i]perylene	1	0		16.05	48.99	50	20	0.5	1.034	1.013	2.01	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.
624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M94027.D **Instrument:** GCMS 7

Cont Calibration Date/Time 8/22/2018 3:45:00 P Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Methylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.803	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.891	0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

8081617 0107

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M93981.D Method: EPA 8270D

Analysis Date/Time: 08/21/18 12:11

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	75211	2.57	131555	5.78	483474	6.80	298424	8.24	527315	9.68	522565	12.73	455516	14.42
Eval File Area Limit:	37606-150422		65778-263110		241737-966948		149212-596848		263658-1054630		261282-1045130		227758-911032	
Eval File Rt Limit:	2.07-3.07		5.28-6.28		6.3-7.3		7.74-8.74		9.18-10.18		12.23-13.23		13.92-14.92	

Data File	Sample														
7M93973.D	CAL BNA@10PPM	82526	2.55	140808	5.78	516348	6.81	329544	8.26	576342	9.70	570191	12.73	484112	14.39
7M93974.D	CAL BNA@2PPM	80517	2.56	145864	5.78	535524	6.80	342506	8.23	591445	9.68	587514	12.72	495633	14.37
7M93975.D	CAL BNA@196PPM	73998	2.56	128890	5.78	479740	6.80	309109	8.24	520750	9.69	574549	12.73	454691	14.39
7M93976.D	CAL BNA@160PPM	79138	2.56	141041	5.78	503798	6.80	351785	8.24	541169	9.68	579081	12.73	480616	14.40
7M93977.D	CAL BNA@120PPM	81572	2.56	141926	5.78	513249	6.80	324788	8.23	558290	9.68	562079	12.72	485517	14.38
7M93978.D	CAL BNA@80PPM	76738	2.56	134448	5.78	480313	6.82	301877	8.27	525381	9.71	529516	12.74	452986	14.43
7M93979.D	CAL BNA@20PPM	73604	2.57	131942	5.78	481326	6.82	308065	8.26	534784	9.70	539240	12.75	459161	14.46
7M93980.D	CAL BNA@0.5PPM	76491	2.56	139473	5.78	512287	6.81	320753	8.25	569558	9.69	565396	12.75	491426	14.45
7M93981.D	CAL BNA@50PPM	75211	2.57	131555	5.78	483474	6.80	298424	8.24	527315	9.68	522565	12.73	455516	14.42
7M93982.D	ICV BNA@50PPM	72571	2.56	129500	5.78	457953	6.82	285425	8.26	506349	9.71	517004	12.76	443984	14.50

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

8081617 0108

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M94012.D Method: EPA 8270D

Analysis Date/Time: 08/22/18 09:24

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	72715	2.56	126685	5.78	466938	6.80	290792	8.23	517872	9.67	506313	12.72	437771	14.35
Eval File Area Limit:	36358-145430		63342-253370		233469-933876		145396-581584		258936-1035744		253156-1012626		218886-875542	
Eval File Rt Limit:	2.06-3.06		5.28-6.28		6.3-7.3		7.73-8.73		9.17-10.17		12.22-13.22		13.85-14.85	

Data File	Sample														
7M94013.D	WMB69959	70273	2.56	121479	5.78	455824	6.82	286982	8.27	496647	9.71	472991	12.73	405823	14.41
7M94014.D	SMB69957(MS)	58630	2.55	102664	5.78	370709	6.80	228065	8.24	403466	9.68	399558	12.73	332545	14.42
7M94015.D	SMB69957	57345	2.54	105379	5.78	373037	6.79	231378	8.22	401366	9.67	386758	12.71	323054	14.36
7M94016.D	OMB69865	66261	2.56	115064	5.78	418804	6.80	261835	8.23	456975	9.68	434647	12.72	366960	14.40
7M94017.D	AD06050-005(10X)	64910	2.56	122717	5.78	439104	6.80	267307	8.22	449279	9.67	439723	12.72	381492	14.41
7M94018.D	AD05930-007(T)	61327	2.57	111309	5.78	393617	6.80	273391	8.25	442482	9.71	431207	12.73	370898	14.38
7M94019.D	AD05930-013(T)	97090	2.56	177894	5.78	617379	6.81	376587	8.25	644541	9.69	592765	12.73	503332	14.42
7M94020.D	AD06057-001	94304	2.56	165864	5.78	591438	6.79	358828	8.22	609331	9.67	552436	12.72	462811	14.39
7M94021.D	EF-SPLP V-285163(0	83099	2.56	151901	5.78	549027	6.79	335014	8.22	590047	9.67	547324	12.71	446852	14.35
7M94022.D	WMB69963	98584	2.56	174098	5.78	632416	6.79	394796	8.22	671116	9.67	648354	12.71	543988	14.35
7M94023.D	WMB69955	72987	2.56	124615	5.78	444378	6.80	269451	8.23	470291	9.67	453379	12.72	387495	14.37
7M94025.D	AD05999-001	67422	2.54	122121	5.78	440404	6.79	273502	8.22	474571	9.67	447943	12.71	376600	14.36

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

8081617 0109

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M94027.D Method: EPA 8270D

Analysis Date/Time: 08/22/18 15:45

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	75985	2.55	128149	5.78	470988	6.80	296622	8.23	526052	9.68	524505	12.72	452730	14.37
Eval File Area Limit:	37992-151970		64074-256298		235494-941976		148311-593244		263026-1052104		262252-1049010		226365-905460	
Eval File Rt Limit:	2.05-3.05		5.28-6.28		6.3-7.3		7.73-8.73		9.18-10.18		12.22-13.22		13.87-14.87	

Data File	Sample														
7M94028.D	AD05999-001(MS)	78463	2.54	135267	5.78	484055	6.80	300987	8.23	523543	9.68	500658	12.72	358744	14.35
7M94029.D	AD05999-001(MSD)	75609	2.55	130291	5.78	473054	6.80	304127	8.23	514763	9.67	484403	12.72	381326	14.36
7M94030.D	SMB69958(MS)	67858	2.55	116633	5.78	428902	6.79	267656	8.22	458285	9.67	445582	12.71	356682	14.34
7M94031.D	SMB69958	84399	2.55	140247	5.78	476193	6.79	289758	8.22	493602	9.67	465393	12.71	375439	14.33
7M94032.D	AD06068-004	63778	2.54	111339	5.78	411255	6.79	254807	8.21	445385	9.66	397586	12.71	319204	14.33
7M94033.D	AD06068-004(MS)	67431	2.55	115533	5.78	416806	6.79	263966	8.22	450910	9.67	430585	12.71	341484	14.33
7M94034.D	AD06068-004(MSD)	61439	2.54	108676	5.78	391685	6.79	249195	8.21	425628	9.66	410378	12.71	320980	14.33
7M94035.D	AD06068-001	72998	2.54	123507	5.78	428144	6.79	253931	8.21	442773	9.66	413342	12.71	330907	14.33
7M94036.D	AD06068-002	76900	2.54	126068	5.78	457218	6.79	275575	8.21	472086	9.66	445006	12.71	369738	14.33
7M94037.D	AD06068-003	62413	2.54	108059	5.78	405861	6.79	257505	8.21	444107	9.66	395858	12.71	321246	14.33
7M94038.D	AD06042-004	77248	2.54	133383	5.78	472686	6.79	276796	8.21	471555	9.66	430876	12.71	355093	14.33
7M94039.D	AD06042-006	59216	2.54	107299	5.78	406253	6.79	251578	8.21	425733	9.66	376613	12.71	300670	14.33
7M94040.D	AD06042-008	66779	2.54	121185	5.78	452152	6.79	277306	8.20	477890	9.66	419515	12.71	338024	14.33
7M94041.D	AD06042-010	75624	2.55	141962	5.78	530833	6.79	318100	8.21	536735	9.66	472414	12.71	373251	14.33
7M94042.D	AD06027-001	80018	2.53	137340	5.78	496267	6.79	299446	8.21	516381	9.66	467652	12.71	381970	14.33
7M94043.D	AD05985-001	59982	2.55	110637	5.78	409858	6.79	253139	8.21	420608	9.66	371449	12.71	305194	14.33
7M94044.D	AD05985-003	66699	2.55	120727	5.78	444383	6.79	266199	8.21	462272	9.66	408577	12.71	328268	14.33
7M94045.D	AD05985-006	85824	2.55	153076	5.78	549686	6.79	330295	8.21	562442	9.66	507441	12.71	405591	14.33
7M94046.D	AD06026-001	70636	2.54	131429	5.78	480689	6.79	281565	8.21	479878	9.66	422057	12.71	355873	14.33
7M94047.D	AD06026-003	68370	2.54	152340	5.78	591701	6.80	387678	8.23	589932	9.67	512144	12.72	480776	14.33
7M94048.D	AD06065-001	76644	2.55	141729	5.78	515102	6.79	305667	8.21	506413	9.66	405467	12.71	325739	14.33
7M94049.D	AD06069-001	87765	2.55	149786	5.78	528164	6.79	319546	8.21	540403	9.66	462117	12.71	376256	14.33
7M94050.D	AD06053-001	64087	2.55	119339	5.78	425589	6.79	253929	8.21	407262	9.66	374847	12.71	313269	14.33
7M94051.D	AD06053-002	68320	2.55	127040	5.78	525588	6.79	303389	8.21	501967	9.66	400329	12.71	342624	14.33
7M94052.D	AD06053-003	65984	2.55	122432	5.78	442776	6.79	257596	8.21	426819	9.66	393703	12.71	326436	14.33
7M94053.D	AD06073-001	76372	2.55	132871	5.78	475343	6.79	293297	8.21	484841	9.66	408311	12.71	331468	14.33
7M94054.D	AD06073-002	69608	2.55	127057	5.78	466940	6.79	281522	8.21	457252	9.66	383141	12.71	320257	14.33
7M94055.D	AD06073-003	85187	2.55	146824	5.78	514733	6.79	306962	8.21	505358	9.66	423217	12.71	368833	14.33

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

PCB Data

Form1

ORGANICS PCB REPORT

Sample Number: AD05999-001
Client Id: SS-1
Data File: 3G110753.D
Analysis Date: 08/23/18 16:39
Date Rec/Extracted: 08/16/18-08/23/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.026	U	11097-69-1	Aroclor-1254	0.026	U
11104-28-2	Aroclor-1221	0.026	U	11096-82-5	Aroclor-1260	0.026	U
11141-16-5	Aroclor-1232	0.026	U	37324-23-5	Aroclor-1262	0.026	U
53469-21-9	Aroclor-1242	0.026	U	11100-14-4	Aroclor-1268	0.026	U
12672-29-6	Aroclor-1248	0.026	U	1336-36-3	Aroclor (Total)	0.026	U

Worksheet #: 477245

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2018\GC_3\Data\08-23-18\
Data File : 3G110753.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2018 16:39
Operator : MS/ZM/MLC
Sample : AD05999-001
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 23 17:15:50 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0724.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Jul 25 11:18:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.780	3.831	575848	1188105	81.258	84.474
45)DCB-Surrogate	9.888	10.625	676885	1420362	74.677	77.907

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\08-23-18\
Data File : 3G110753.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2018 16:39
Operator : MS/ZM/MLC
Sample : AD05999-001
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 23 17:15:50 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0724.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Jul 25 11:18:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

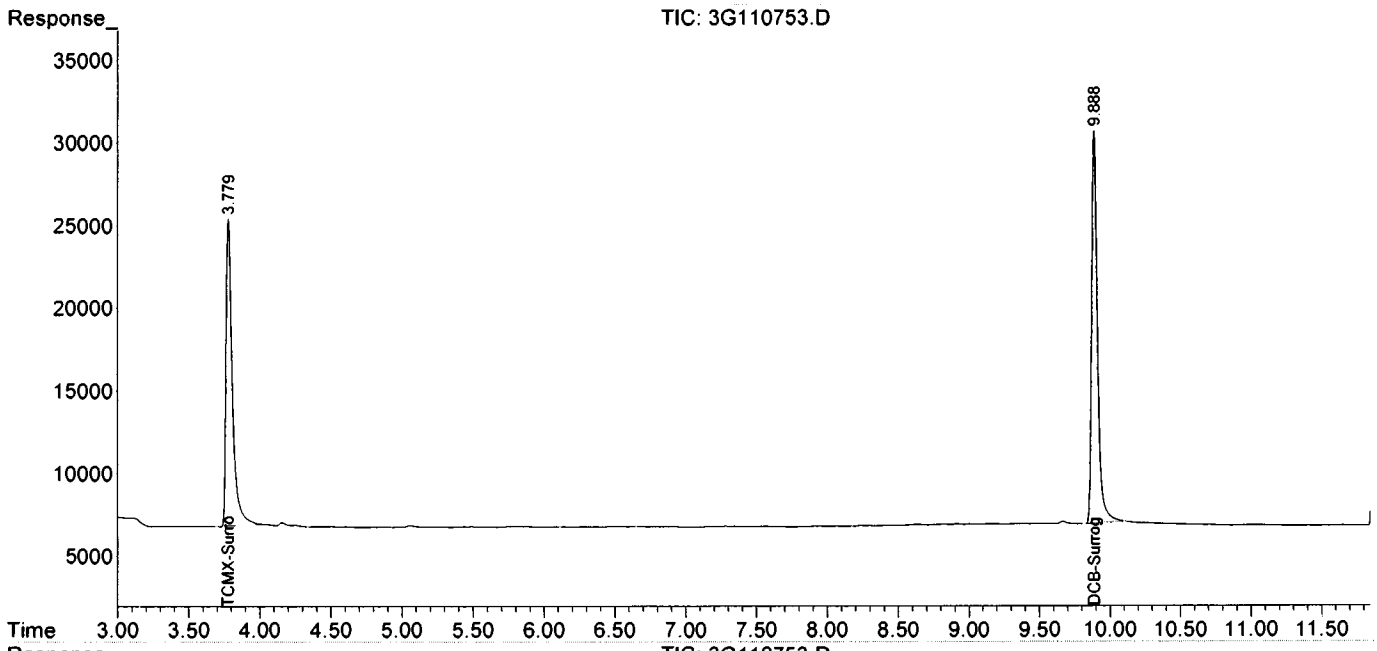

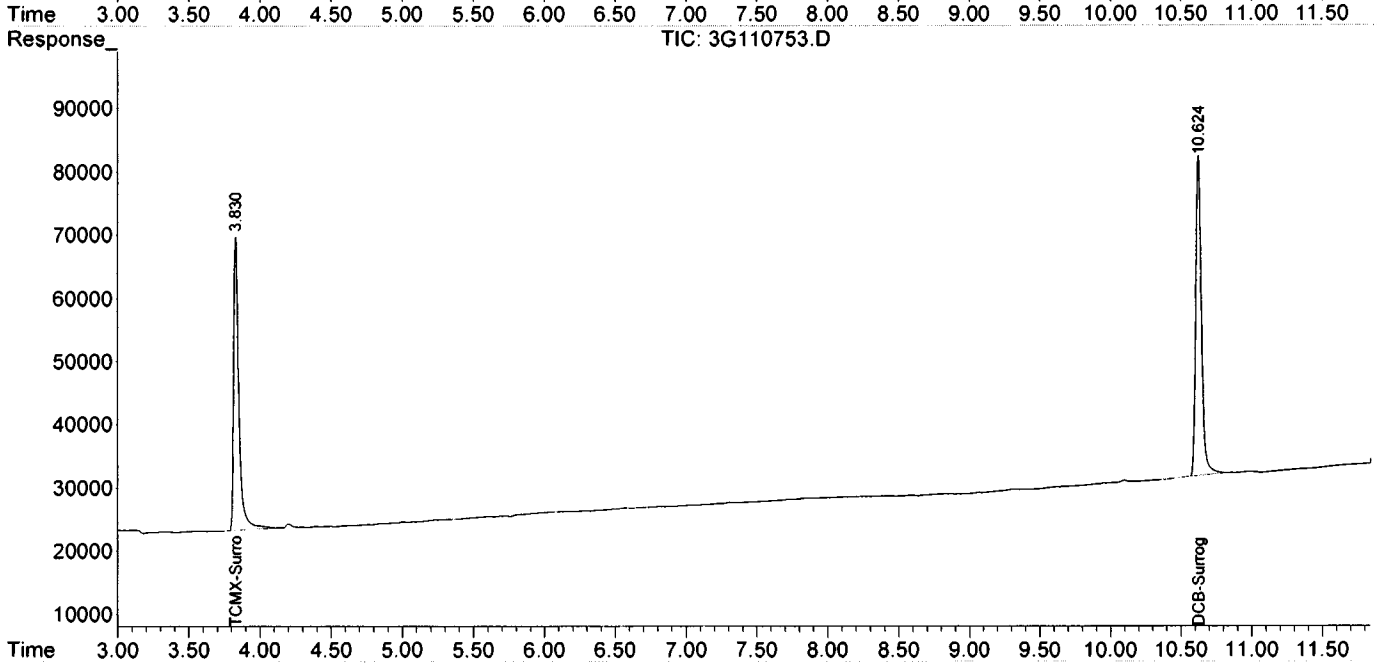

Form1

ORGANICS PCB REPORT

Sample Number: SMB69977
Client Id:
Data File: 3G110743.D
Analysis Date: 08/23/18 12:29
Date Rec/Extracted: NA-08/23/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.025	U	11097-69-1	Aroclor-1254	0.025	U
11104-28-2	Aroclor-1221	0.025	U	11096-82-5	Aroclor-1260	0.025	U
11141-16-5	Aroclor-1232	0.025	U	37324-23-5	Aroclor-1262	0.025	U
53469-21-9	Aroclor-1242	0.025	U	11100-14-4	Aroclor-1268	0.025	U
12672-29-6	Aroclor-1248	0.025	U				

Worksheet #: 477245

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2018\GC_3\Data\08-23-18\
Data File : 3G110743.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2018 12:29
Operator : MS/ZM/MLC
Sample : SMB69977
Misc : S,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 23 13:20:34 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0724.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Jul 25 11:18:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.783	3.831	555125	1149459	78.333	81.726
45)DCB-Surrogate	9.893	10.625	650678	1376778	71.785	75.517

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\08-23-18\
Data File : 3G110743.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2018 12:29
Operator : MS/ZM/MLC
Sample : SMB69977
Misc : S,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 23 13:20:34 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0724.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Wed Jul 25 11:18:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

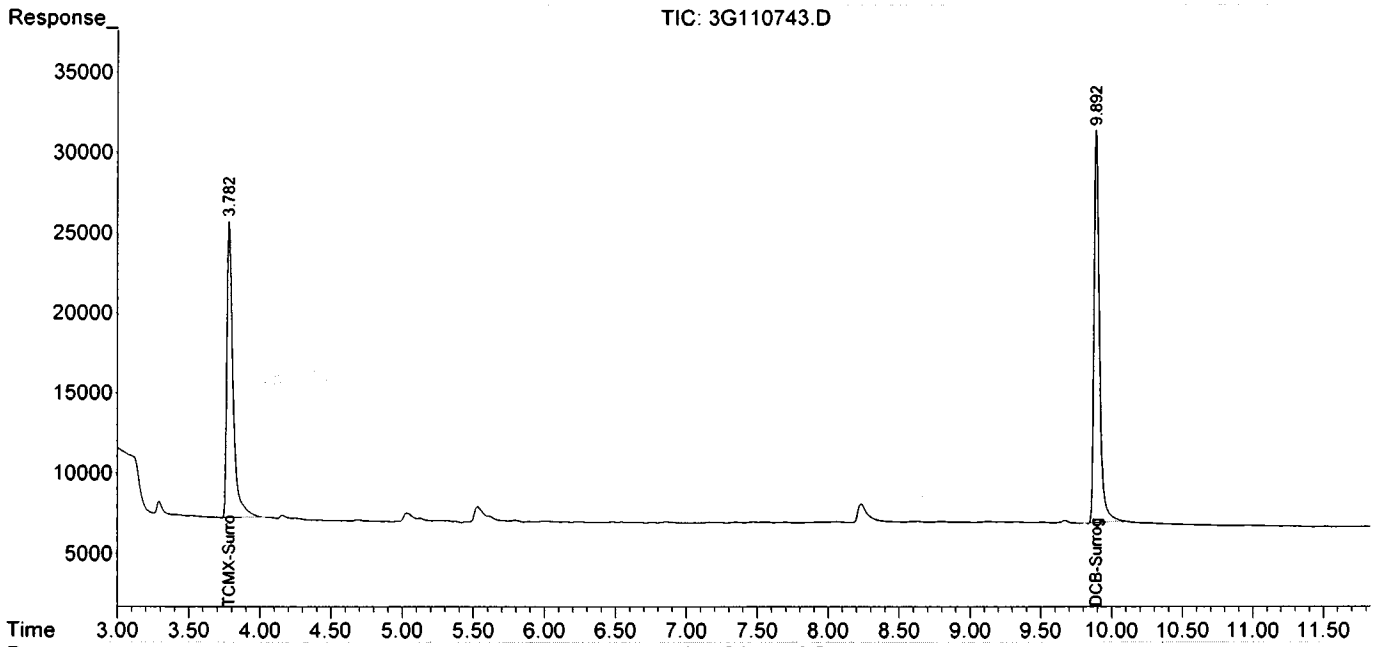

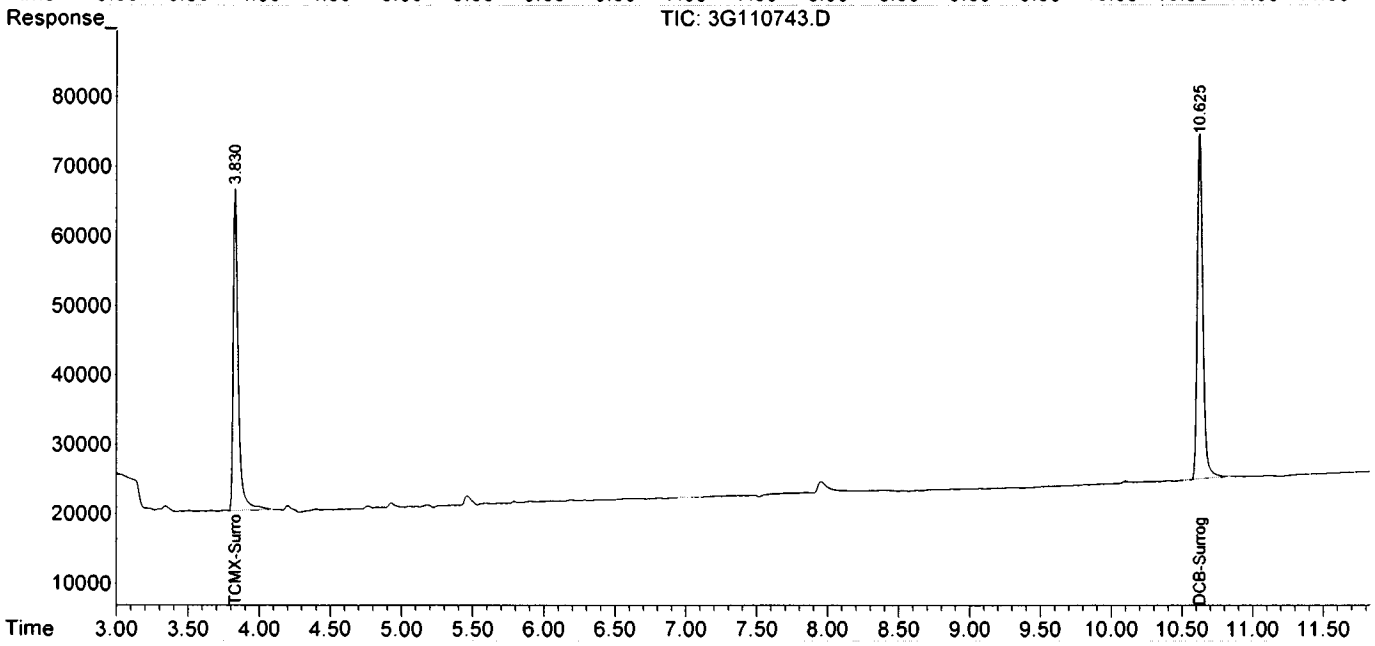

FORM2

Surrogate Recovery

Method: EPA 8082A

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column1 S3 Recov	Column2 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
3G110743.D	SMB69977	S	08/23/18 12:29	1		78	82	72	76		
3G110753.D	AD05999-001	S	08/23/18 16:39	1		81	84	75	78		
3G110744.D	SMB69977(MS)	S	08/23/18 12:44	1		81	83	73	76		
3G110751.D	AD05999-001(MS)	S	08/23/18 16:09	1		91	94	73	77		
3G110752.D	AD05999-001(MSD)	S	08/23/18 16:23	1		88	90	74	77		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8082A

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	37-141
S2=TCMX-Surrogate	100	37-141
S3=DCB-Surrogate	100	34-146
S4=DCB-Surrogate	100	34-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69977

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G110744.D	SMB69977(MS)	8/23/2018 12:44:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	818.362	0	1000	82	30	163
Aroclor-1260 -Total	1	794.098	0	1000	79	25	166

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69977

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G110751.D	AD05999-001(MS)	8/23/2018 4:09:00 PM
Non Spike(If applicable):	3G110753.D	AD05999-001	8/23/2018 4:39:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	979.718	0	1000	98	30	163
Aroclor-1260 -Total	1	894.594	0	1000	89	25	166

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G110752.D	AD05999-001(MSD)	8/23/2018 4:23:00 PM
Non Spike(If applicable):	3G110753.D	AD05999-001	8/23/2018 4:39:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	949.144	0	1000	95	30	163
Aroclor-1260 -Total	1	897.42	0	1000	90	25	166

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: SMB69977

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G110752.D	AD05999-001(MSD)	8/23/2018 4:23:00 PM
Duplicate(If applicable):	3G110751.D	AD05999-001(MS)	8/23/2018 4:09:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Aroclor-1016 -Total	1	949.144	979.718	3.2	40
Aroclor-1260 -Total	1	897.42	894.594	0.32	37

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: SMB69977
Blank Data File: 3G110743.D
Matrix: Soil

Blank Analysis Date: 08/23/18 12:29
Blank Extraction Date: 08/23/18
(If Applicable)
Method: EPA 8082A

Sample Number	Data File	Analysis Date
AD05999-001	3G110753.D	08/23/18 16:39
AD05999-001(MS)	3G110751.D	08/23/18 16:09
SMB69977(MS)	3G110744.D	08/23/18 12:44
AD05999-001(MSD	3G110752.D	08/23/18 16:23

Form 5

Method: EPA 8082A

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G110256.D	500PPB	07/24/18 10:39	Soil					
3G110257.D	500PPB	07/24/18 10:54	Soil					
3G110258.D	500PPB	07/24/18 11:09	Soil					
3G110259.D	CAL 3268@500PPB	07/24/18 11:24	Soil	3G11026	9.8891	0.0061	10.6222	0.0132
3G110260.D	CAL 1242@500PPB	07/24/18 11:39	Soil	3G11026	9.8892	0.0071	10.6205	0.0028
3G110261.D	CAL 1248@500PPB	07/24/18 11:54	Soil	3G11026	9.8886	0.001	10.6219	0.0104
3G110262.D	CAL 2154@500PPB	07/24/18 12:09	Soil	3G11026	9.8901	0.0162	10.6219	0.0104
3G110263.D	CAL 1262@500PPB	07/24/18 12:24	Soil	3G11026	9.8885	0	10.6213	0.0047
3G110264.D	CAL 1660@50PPB	07/24/18 12:38	Soil	3G11026	9.8885	0	10.6208	0
3G110265.D	CAL 1660@200PPB	07/24/18 12:53	Soil	3G11026	9.8905	0.0202	10.6212	0.0038
3G110266.D	CAL 1660@500PPB	07/24/18 13:08	Soil	3G11026	9.8901	0.0162	10.6230	0.0207
3G110267.D	CAL 1660@1000PPB	07/24/18 13:23	Soil	3G11026	9.8884	0.001	10.6206	0.0019
3G110268.D	CAL 1660@2000PPB	07/24/18 13:38	Soil	3G11026	9.8893	0.0081	10.6219	0.0104
3G110269.D	CAL 1660@4000PPB	07/24/18 13:53	Soil	3G11026	9.8893	0.0081	10.6213	0.0047
3G110270.D	ICV	07/24/18 14:07	Soil	3G11026	9.8903	0.0182	10.6232	0.0226

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8082A
Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G110742.D	CAL 1660@1000PPB	08/23/18 11:07	Soil	3G11074	9.8948	0	10.6259	0
3G110743.D	SMB69977	08/23/18 12:29	Soil	3G11074	9.8928	0.0202	10.6253	0.0056
3G110744.D	SMB69977(MS)	08/23/18 12:44	Soil	3G11074	9.8873	0.0758	10.6233	0.0245
3G110745.D	AD06097-001	08/23/18 12:58	Soil	3G11074	9.8802	0.1477	10.6169	0.0847
3G110746.D	AD06098-002	08/23/18 13:13	Soil	3G11074	9.8810	0.1396	10.6157	0.096
3G110747.D	AD06097-001	08/23/18 13:28	Soil	3G11074	9.8819	0.1305	10.6188	0.0668
3G110748.D	SMB69979	08/23/18 14:40	Soil	3G11074	9.8936	0.0121	10.6244	0.0141
3G110749.D	SMB69979(MS)	08/23/18 14:54	Soil	3G11074	9.8867	0.0819	10.6222	0.0348
3G110750.D	CAL 1660@1000PPB	08/23/18 15:09	Soil	3G11074	9.8876	0.0728	10.6257	0.0019
3G110751.D	AD05999-001(MS)	08/23/18 16:09	Soil	3G11075	9.8942	0.0667	10.6244	0.0122
3G110752.D	AD05999-001(MSD)	08/23/18 16:23	Soil	3G11075	9.8875	0.001	10.6225	0.0301
3G110753.D	AD05999-001	08/23/18 16:39	Soil	3G11075	9.8884	0.0081	10.6253	0.0038
3G110754.D	AD06047-001	08/23/18 16:54	Soil	3G11075	9.8859	0.0172	10.6213	0.0414
3G110755.D	AD06047-002	08/23/18 17:10	Soil	3G11075	9.8816	0.0607	10.6174	0.0781
3G110756.D	AD06075-001	08/23/18 17:25	Soil	3G11075	9.8828	0.0486	10.6173	0.0791
3G110757.D	AD06075-003	08/23/18 17:40	Soil	3G11075	9.8839	0.0374	10.6218	0.0367
3G110758.D	AD06075-005	08/23/18 17:56	Soil	3G11075	9.8851	0.0253	10.6208	0.0461
3G110759.D	AD06075-007	08/23/18 18:11	Soil	3G11075	9.8836	0.0405	10.6203	0.0508
3G110760.D	AD06075-009	08/23/18 18:26	Soil	3G11075	9.8834	0.0425	10.6184	0.0687
3G110761.D	AD06075-011	08/23/18 18:42	Soil	3G11075	9.8840	0.0364	10.6197	0.0565
3G110762.D	AD06075-013	08/23/18 18:57	Soil	3G11075	9.8844	0.0324	10.6208	0.0461
3G110763.D	AD06059-001	08/23/18 19:12	Soil	3G11075	9.8836	0.0405	10.6192	0.0612
3G110764.D	AD06059-002	08/23/18 19:28	Soil	3G11075	9.8838	0.0384	10.6194	0.0593
3G110765.D	AD06051-001(MS)	08/23/18 19:43	Soil	3G11075	9.8859	0.0172	10.6219	0.0358
3G110766.D	AD06051-001(MSD)	08/23/18 19:58	Soil	3G11075	9.8849	0.0273	10.6206	0.048
3G110767.D	AD06051-001	08/23/18 20:13	Soil	3G11075	9.8857	0.0192	10.6212	0.0424
3G110768.D	CAL 1660@1000PPB	08/23/18 20:29	Soil	3G11075	9.8887	0.0111	10.6251	0.0056
3G110769.D	2000PPB	08/23/18 20:44	Soil	3G11076	9.8880	0.0071	10.6241	0.0094
3G110770.D	AD06051-002	08/23/18 20:59	Soil	3G11076	9.8854	0.0334	10.6219	0.0301
3G110771.D	AD06051-003	08/23/18 21:14	Soil	3G11076	9.8850	0.0374	10.6209	0.0395
3G110772.D	AD06051-004	08/23/18 21:30	Soil	3G11076	9.8861	0.0263	10.6238	0.0122
3G110773.D	AD06051-005	08/23/18 21:45	Soil	3G11076	9.8842	0.0455	10.6189	0.0584
3G110774.D	AD06078-009	08/23/18 22:00	Soil	3G11076	9.8823	0.0647	10.6179	0.0678
3G110775.D	AD06027-001	08/23/18 22:15	Soil	3G11076	9.8871	0.0162	10.6230	0.0198
3G110776.D	AD06065-001	08/23/18 22:30	Soil	3G11076	9.8836	0.0516	10.6189	0.0584
3G110777.D	AD06073-001	08/23/18 22:46	Soil	3G11076	9.8845	0.0425	10.6208	0.0405
3G110778.D	AD06073-002	08/23/18 23:01	Soil	3G11076	9.8837	0.0506	10.6199	0.049
3G110779.D	AD06073-003	08/23/18 23:16	Soil	3G11076	9.8826	0.0617	10.6178	0.0687
3G110780.D	AD06073-004	08/23/18 23:31	Soil	3G11076	9.8835	0.0526	10.6190	0.0574
3G110781.D	AD06073-005	08/23/18 23:46	Soil	3G11076	9.8843	0.0445	10.6191	0.0565
3G110782.D	AD06073-006	08/24/18 00:02	Soil	3G11076	9.8848	0.0394	10.6215	0.0339
3G110783.D	AD05973-011(R)	08/24/18 00:17	Soil	3G11076	9.8864	0.0233	10.6224	0.0254
3G110784.D	CAL 1660@1000PPB	08/24/18 00:32	Soil	3G11076	9.8885	0.002	10.6236	0.0141
3G110785.D	2000PPB	08/24/18 00:48	Soil	3G11078	9.8891	0.0061	10.6245	0.0085

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G110264.D	CAL 1660@50PPB	07/24/18 12:38	2	3G110265.D	CAL 1660@200PPB	07/24/18 12:53
3	3G110266.D	CAL 1660@500PPB	07/24/18 13:08	4	3G110267.D	CAL 1660@1000PPB	07/24/18 13:23
5	3G110268.D	CAL 1660@2000PPB	07/24/18 13:38	6	3G110269.D	CAL 1660@4000PPB	07/24/18 13:53
7	3G110259.D	CAL 3268@500PPB	07/24/18 11:24	8	3G110260.D	CAL 1242@500PPB	07/24/18 11:39
9	3G110261.D	CAL 1248@500PPB	07/24/18 11:54	10	3G110262.D	CAL 2154@500PPB	07/24/18 12:09

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	Avg	0.7111	0.7081	0.6773	0.6883	0.7232	0.7439	----	----	0.709	3.78	1.00	1.00	3.4	5.00	20.00	50.00	100.0	200.0	400.0		
Aroclor-1016	1	1	Avg	0.0193	0.0194	0.0172	0.0162	0.0164	0.0180	----	----	0.0178	4.25	0.997	1.00	7.7	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	2	LinF	0.0404	0.0404	0.0363	0.0325	0.0319	0.0307	----	----	0.0354	4.61	1.00	1.00	12	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	3	Avg	0.0723	0.0745	0.0688	0.0622	0.0635	0.0625	----	----	0.0673	5.07	1.00	1.00	8.0	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	4	Avg	0.0236	0.0235	0.0229	0.0203	0.0213	0.0212	----	----	0.0222	5.30	1.00	1.00	6.2	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	5	LinF	0.0604	0.0590	0.0570	0.0480	0.0500	0.0479	----	----	0.0538	5.42	0.999	0.999	11	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	1	LinF	0.0523	0.0495	0.0457	0.0409	0.0412	0.0390	----	----	0.0448	6.90	0.999	1.00	12	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	2	Avg	0.0580	0.0588	0.0545	0.0503	0.0509	0.0491	----	----	0.0536	7.15	1.00	1.00	7.7	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	3	Avg	0.0279	0.0290	0.0283	0.0256	0.0278	0.0281	----	----	0.0278	7.34	0.999	1.00	4.1	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	4	Avg	0.0396	0.0379	0.0364	0.0337	0.0351	0.0341	----	----	0.0362	7.92	1.00	1.00	6.4	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	5	Avg	0.0665	0.0654	0.0648	0.0593	0.0651	0.0660	----	----	0.0646	8.63	0.999	1.00	4.1	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1221	1	1	Avg	----	----	----	----	----	----	----	----	0.00933	4.07	-1	-1	Lvl=10	500.0							
Aroclor-1221	1	2	Avg	----	----	----	----	----	----	----	----	0.00598	4.20	-1	-1	Lvl=10	500.0							
Aroclor-1221	1	3	Avg	----	----	----	----	----	----	----	----	0.0294	4.26	-1	-1	Lvl=10	500.0							
Aroclor-1232	1	1	Avg	----	----	----	----	----	----	----	----	0.0177	4.25	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	2	Avg	----	----	----	----	----	----	----	----	0.0167	4.61	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	3	Avg	----	----	----	----	----	----	----	----	0.0289	5.07	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	4	Avg	----	----	----	----	----	----	----	----	0.0134	5.20	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	5	Avg	----	----	----	----	----	----	----	----	0.0130	5.65	-1	-1	Lvl=7	500.0							
Aroclor-1242	1	1	Avg	----	----	----	----	----	----	----	----	0.0194	4.25	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	2	Avg	----	----	----	----	----	----	----	----	0.0364	4.60	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	3	Avg	----	----	----	----	----	----	----	----	0.0701	5.07	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	4	Avg	----	----	----	----	----	----	----	----	0.0554	5.42	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	5	Avg	----	----	----	----	----	----	----	----	0.0297	5.65	-1	-1	Lvl=8	500.0							
Aroclor-1248	1	1	Avg	----	----	----	----	----	----	----	----	0.0143	4.61	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	2	Avg	----	----	----	----	----	----	----	----	0.0279	5.08	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	3	Avg	----	----	----	----	----	----	----	----	0.0633	5.42	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	4	Avg	----	----	----	----	----	----	----	----	0.0338	5.76	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	5	Avg	----	----	----	----	----	----	----	----	0.0399	6.35	-1	-1	Lvl=9	500.0							
Aroclor-1254	1	1	Avg	----	----	----	----	----	----	----	----	0.0166	6.55	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	2	Avg	----	----	----	----	----	----	----	----	0.0608	6.75	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	3	Avg	----	----	----	----	----	----	----	----	0.0365	6.91	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	4	Avg	----	----	----	----	----	----	----	----	0.0502	7.04	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	5	Avg	----	----	----	----	----	----	----	----	0.0188	7.41	-1	-1	Lvl=10	500.0							
Aroclor-1262	1	1	Avg	----	----	----	----	----	----	----	----	0.0639	7.58	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	2	Avg	----	----	----	----	----	----	----	----	0.0375	8.57	-1	-1	Lvl=11	500.0							

Avg Rsd Col 1: 7.42 Avg Rsd Col 2: 9.85

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

8081617 0124

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G110264.D	CAL 1660@50PPB	07/24/18 12:38	2	3G110265.D	CAL 1660@200PPB	07/24/18 12:53
3	3G110266.D	CAL 1660@500PPB	07/24/18 13:08	4	3G110267.D	CAL 1660@1000PPB	07/24/18 13:23
5	3G110268.D	CAL 1660@2000PPB	07/24/18 13:38	6	3G110269.D	CAL 1660@4000PPB	07/24/18 13:53
7	3G110259.D	CAL 3268@500PPB	07/24/18 11:24	8	3G110260.D	CAL 1242@500PPB	07/24/18 11:39
9	3G110261.D	CAL 1248@500PPB	07/24/18 11:54	10	3G110262.D	CAL 2154@500PPB	07/24/18 12:09

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aroclor-1262	1	3	Avg	----	----	----	----	----	----	----	----	0.0742	8.63	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	4	Avg	----	----	----	----	----	----	----	----	0.0338	9.32	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	5	Avg	----	----	----	----	----	----	----	----	0.0113	9.67	-1	-1	Lvl=11	500.0							
Aroclor-1268	1	1	Avg	----	----	----	----	----	----	----	----	0.0120	7.93	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	2	Avg	----	----	----	----	----	----	----	----	0.00840	8.24	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	3	Avg	----	----	----	----	----	----	----	----	0.0901	8.82	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	4	Avg	----	----	----	----	----	----	----	----	0.0245	8.92	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	5	Avg	----	----	----	----	----	----	----	----	0.271	9.66	-1	-1	Lvl=7	500.0							
DCB-Surrogate	1	0	Avg	1.0053	0.9545	0.9026	0.8582	0.8635	0.8541	----	----	0.906	9.89	1.00	1.00	6.8	5.00	20.00	50.00	100.0	200.0	400.0		
TCMX-Surrogate	2	0	Avg	1.4471	1.5329	1.4093	1.2887	1.3759	1.3847	----	----	1.41	3.83	1.00	1.00	5.8	5.00	20.00	50.00	100.0	200.0	400.0		
Aroclor-1016	2	1	LinF	0.0402	0.0256	0.0279	0.0235	0.0261	0.0261	----	----	0.0283	4.43	0.999	0.999	21	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	2	Avg	0.0636	0.0591	0.0604	0.0538	0.0536	0.0511	----	----	0.0570	4.84	0.999	1.00	8.5	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	3	Avg	0.1352	0.1461	0.1307	0.1174	0.1201	0.1170	----	----	0.128	5.23	1.00	1.00	9.1	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	4	Avg	0.0520	0.0528	0.0516	0.0488	0.0490	0.0484	----	----	0.0505	5.55	1.00	1.00	3.8	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	5	Avg	0.0375	0.0382	0.0341	0.0333	0.0344	0.0347	----	----	0.0354	5.91	1.00	1.00	5.6	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	1	Avg	0.1035	0.1007	0.0895	0.0881	0.0830	0.0813	----	----	0.0910	7.21	1.00	1.00	10	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	2	Avg	0.1190	0.1353	0.1221	0.1163	0.1153	0.1161	----	----	0.121	7.30	1.00	1.00	6.3	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	3	LinF	0.0476	0.0734	0.0616	0.0473	0.0550	0.0585	----	----	0.0573	7.93	0.996	0.998	17	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	4	Avg	0.0881	0.1063	0.0957	0.0953	0.0929	0.0950	----	----	0.0956	8.28	1.00	1.00	6.2	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	5	LinF	0.1291	0.1037	0.1083	0.0842	0.0904	0.0977	----	----	0.102	8.98	0.997	0.999	15	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1221	2	1	Avg	----	----	----	----	----	----	----	----	0.0167	4.21	-1	-1	Lvl=10	500.0							
Aroclor-1221	2	2	Avg	----	----	----	----	----	----	----	----	0.00918	4.36	-1	-1	Lvl=10	500.0							
Aroclor-1221	2	3	Avg	----	----	----	----	----	----	----	----	0.0332	4.43	-1	-1	Lvl=10	500.0							
Aroclor-1232	2	1	Avg	----	----	----	----	----	----	----	----	0.0263	4.42	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	2	Avg	----	----	----	----	----	----	----	----	0.0282	4.84	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	3	Avg	----	----	----	----	----	----	----	----	0.0666	5.23	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	4	Avg	----	----	----	----	----	----	----	----	0.0199	5.91	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	5	Avg	----	----	----	----	----	----	----	----	0.0186	6.06	-1	-1	Lvl=7	500.0							
Aroclor-1242	2	1	Avg	----	----	----	----	----	----	----	----	0.0283	4.42	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	2	Avg	----	----	----	----	----	----	----	----	0.0679	4.84	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	3	Avg	----	----	----	----	----	----	----	----	0.141	5.22	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	4	Avg	----	----	----	----	----	----	----	----	0.0585	5.55	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	5	Avg	----	----	----	----	----	----	----	----	0.0422	5.91	-1	-1	Lvl=8	500.0							
Aroclor-1248	2	1	Avg	----	----	----	----	----	----	----	----	0.0208	4.84	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	2	Avg	----	----	----	----	----	----	----	----	0.0722	5.23	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	3	Avg	----	----	----	----	----	----	----	----	0.0522	5.55	-1	-1	Lvl=9	500.0							

Avg Rsd Col 1: 7.42 Avg Rsd Col 2: 9.85

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pch/chlordane etc.)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

8081617 0125

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G110264.D	CAL 1660@50PPB	07/24/18 12:38	2	3G110265.D	CAL 1660@200PPB	07/24/18 12:53
3	3G110266.D	CAL 1660@500PPB	07/24/18 13:08	4	3G110267.D	CAL 1660@1000PPB	07/24/18 13:23
5	3G110268.D	CAL 1660@2000PPB	07/24/18 13:38	6	3G110269.D	CAL 1660@4000PPB	07/24/18 13:53
7	3G110259.D	CAL 3268@500PPB	07/24/18 11:24	8	3G110260.D	CAL 1242@500PPB	07/24/18 11:39
9	3G110261.D	CAL 1248@500PPB	07/24/18 11:54	10	3G110262.D	CAL 2154@500PPB	07/24/18 12:09

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aroclor-1248	2	4	Avg	----	----	----	----	----	----	----	----	0.0516	6.06	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	5	Avg	----	----	----	----	----	----	----	----	0.0647	6.20	-1	-1	Lvl=9	500.0							
Aroclor-1254	2	1	Avg	----	----	----	----	----	----	----	----	0.0986	6.41	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	2	Avg	----	----	----	----	----	----	----	----	0.0269	6.75	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	3	Avg	----	----	----	----	----	----	----	----	0.0796	7.15	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	4	Avg	----	----	----	----	----	----	----	----	0.0264	7.67	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	5	Avg	----	----	----	----	----	----	----	----	0.0382	8.34	-1	-1	Lvl=10	500.0							
Aroclor-1262	2	1	Avg	----	----	----	----	----	----	----	----	0.0993	7.71	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	2	Avg	----	----	----	----	----	----	----	----	0.0930	8.87	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	3	Avg	----	----	----	----	----	----	----	----	0.107	8.98	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	4	Avg	----	----	----	----	----	----	----	----	0.107	9.56	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	5	Avg	----	----	----	----	----	----	----	----	0.0263	10.09	-1	-1	Lvl=11	500.0							
Aroclor-1268	2	1	Avg	----	----	----	----	----	----	----	----	0.0182	8.38	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	2	Avg	----	----	----	----	----	----	----	----	0.0307	8.42	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	3	Avg	----	----	----	----	----	----	----	----	0.203	9.30	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	4	Avg	----	----	----	----	----	----	----	----	0.0505	9.46	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	5	Avg	----	----	----	----	----	----	----	----	0.600	10.09	-1	-1	Lvl=7	500.0							
DCB-Surrogate	2	0	Avg	2.1096	1.9164	1.8017	1.7369	1.6880	1.6860	----	----	1.82	10.62	1.00	1.00	9.0	5.00	20.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 7.42 Avg Rsd Col 2: 9.85

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

8081617 0126

Form7
Continuing Calibration

Method: EPA 8082A

Data File:				3G110742.D			3G110750.D			3G110768.D													
Method:				8082			8082			8082													
Calibration Name:				CAL 1660@1000PP			CAL 1660@1000PP			CAL 1660@1000PP													
Calibration Date/Time				08/23/18 11:07			08/23/18 15:09			08/23/18 20:29													
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
TCMX-Surrogate	20	1	0	87.98	100	12.0	107.3	100	7.3	102.2	100	2.2						
Aroclor-1016	20	1	1	919.1	1000	8.1	1018	1000	1.8	952.9	1000	4.7						
Aroclor-1016	20	1	2	1023	1000	2.3	1142	1000	14.2	1081	1000	8.1						
Aroclor-1016	20	1	3	906.8	1000	9.3	1028	1000	2.8	974.5	1000	2.5						
Aroclor-1016	20	1	4	931.7	1000	6.8	1033	1000	3.3	971.7	1000	2.8						
Aroclor-1016	20	1	5	1032	1000	3.2	1147	1000	14.7	1096	1000	9.6						
Aroclor-1260	20	1	1	963	1000	3.7	1098	1000	9.8	1049	1000	4.9						
Aroclor-1260	20	1	2	865.5	1000	13.4	993.1	1000	0.7	953.8	1000	4.6						
Aroclor-1260	20	1	3	867.9	1000	13.2	974.3	1000	2.6	918.3	1000	8.2						
Aroclor-1260	20	1	4	838.0	1000	16.2	956.9	1000	4.3	901.4	1000	9.9						
Aroclor-1260	20	1	5	774.1	1000	22.6*	909.8	1000	9.0	951.6	1000	4.8						
DCB-Surrogate	20	1	0	78.43	100	21.6*	87.94	100	12.1	94.6	100	5.4						
Average Difference	20	1	0			11.0			6.9			5.7						
TCMX-Surrogate	20	2	0	98.93	100	1.1	104.6	100	4.6	96.01	100	4.0						
Aroclor-1016	20	2	1	1123	1000	12.3	1127	1000	12.7	974.5	1000	2.5						
Aroclor-1016	20	2	2	1025	1000	2.5	1070	1000	7.0	955.9	1000	4.4						
Aroclor-1016	20	2	3	996.2	1000	0.4	1044	1000	4.4	932.0	1000	6.8						
Aroclor-1016	20	2	4	1019	1000	1.9	1086	1000	8.6	962.9	1000	3.7						
Aroclor-1016	20	2	5	993.3	1000	0.7	1052	1000	5.2	932.7	1000	6.7						
Aroclor-1260	20	2	1	930.8	1000	6.9	977.4	1000	2.3	903.9	1000	9.6						
Aroclor-1260	20	2	2	950.0	1000	5.0	1005	1000	0.5	938.3	1000	6.2						
Aroclor-1260	20	2	3	982.5	1000	1.8	1054	1000	5.4	996.1	1000	0.4						
Aroclor-1260	20	2	4	908.1	1000	9.2	947.4	1000	5.3	900.8	1000	9.9						
Aroclor-1260	20	2	5	917.7	1000	8.2	1032	1000	3.2	969.8	1000	3.0						
DCB-Surrogate	20	2	0	82.79	100	17.2	90.42	100	9.6	86.61	100	13.4						
Average Difference	20	2	0			5.6			5.7			5.9						

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
RtWindow Summary

Method: EPA 8082A

Data File:			3G110264.D		3G110742.D		3G110750.D					
Calibration Name:			CAL 1660@50PPB		CAL 1660@1000PPB		CAL 1660@1000PPB					
Calibration Date/Time			7/24/2018 12:38:00 PM		8/23/2018 11:07:00 AM		8/23/2018 3:09:00 PM					
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
TCMX-Surrogate	1	0	3.78	(3.72 - 3.84)	3.78	(3.72 - 3.84)	3.78	(3.72 - 3.84)				
Aroclor-1016	1	1	4.25	(4.21 - 4.29)	4.26	(4.22 - 4.30)	4.25	(4.21 - 4.29)				
Aroclor-1016	1	2	4.60	(4.56 - 4.64)	4.61	(4.57 - 4.65)	4.60	(4.56 - 4.64)				
Aroclor-1016	1	3	5.07	(5.03 - 5.11)	5.08	(5.04 - 5.12)	5.07	(5.03 - 5.11)				
Aroclor-1016	1	4	5.30	(5.26 - 5.34)	5.30	(5.26 - 5.34)	5.30	(5.26 - 5.34)				
Aroclor-1016	1	5	5.42	(5.38 - 5.46)	5.42	(5.38 - 5.46)	5.41	(5.37 - 5.45)				
Aroclor-1260	1	1	6.90	(6.86 - 6.94)	6.90	(6.86 - 6.94)	6.90	(6.86 - 6.94)				
Aroclor-1260	1	2	7.15	(7.11 - 7.19)	7.16	(7.12 - 7.20)	7.15	(7.11 - 7.19)				
Aroclor-1260	1	3	7.34	(7.30 - 7.38)	7.35	(7.31 - 7.39)	7.34	(7.30 - 7.38)				
Aroclor-1260	1	4	7.92	(7.88 - 7.96)	7.93	(7.89 - 7.97)	7.92	(7.88 - 7.96)				
Aroclor-1260	1	5	8.63	(8.59 - 8.67)	8.64	(8.60 - 8.68)	8.63	(8.59 - 8.67)				
Aroclor-1221	1	1	4.06	(4.02 - 4.10)								
Aroclor-1221	1	2	4.19	(4.15 - 4.23)								
Aroclor-1221	1	3	4.25	(4.21 - 4.29)								
Aroclor-1232	1	1	4.25	(4.21 - 4.29)								
Aroclor-1232	1	2	4.61	(4.57 - 4.65)								
Aroclor-1232	1	3	5.07	(5.03 - 5.11)								
Aroclor-1232	1	4	5.20	(5.16 - 5.24)								
Aroclor-1232	1	5	5.65	(5.61 - 5.69)								
Aroclor-1242	1	1	4.25	(4.21 - 4.29)								
Aroclor-1242	1	2	4.60	(4.56 - 4.64)								
Aroclor-1242	1	3	5.07	(5.03 - 5.11)								
Aroclor-1242	1	4	5.42	(5.38 - 5.46)								
Aroclor-1242	1	5	5.65	(5.61 - 5.69)								
Aroclor-1248	1	1	4.60	(4.56 - 4.64)								
Aroclor-1248	1	2	5.07	(5.03 - 5.11)								
Aroclor-1248	1	3	5.41	(5.37 - 5.45)								
Aroclor-1248	1	4	5.75	(5.71 - 5.79)								
Aroclor-1248	1	5	6.34	(6.30 - 6.38)								
Aroclor-1254	1	1	6.54	(6.50 - 6.58)								
Aroclor-1254	1	2	6.74	(6.70 - 6.78)								
Aroclor-1254	1	3	6.90	(6.86 - 6.94)								
Aroclor-1254	1	4	7.03	(6.99 - 7.07)								
Aroclor-1254	1	5	7.40	(7.36 - 7.44)								
Aroclor-1262	1	1	7.58	(7.54 - 7.62)								
Aroclor-1262	1	2	8.57	(8.53 - 8.61)								
Aroclor-1262	1	3	8.63	(8.59 - 8.67)								
Aroclor-1262	1	4	9.32	(9.28 - 9.36)								
Aroclor-1262	1	5	9.67	(9.63 - 9.71)								
Aroclor-1268	1	1	7.93	(7.89 - 7.97)								
Aroclor-1268	1	2	8.24	(8.20 - 8.28)								
Aroclor-1268	1	3	8.82	(8.78 - 8.86)								
Aroclor-1268	1	4	8.92	(8.88 - 8.96)								
Aroclor-1268	1	5	9.66	(9.62 - 9.70)								
DCB-Surrogate	1	0	9.89	(9.83 - 9.95)	9.89	(9.83 - 9.95)	9.89	(9.83 - 9.95)				
TCMX-Surrogate	2	0	3.83	(3.77 - 3.89)	3.83	(3.77 - 3.89)	3.83	(3.77 - 3.89)				
Aroclor-1016	2	1	4.42	(4.38 - 4.46)	4.43	(4.39 - 4.47)	4.43	(4.39 - 4.47)				
Aroclor-1016	2	2	4.84	(4.80 - 4.88)	4.84	(4.80 - 4.88)	4.84	(4.80 - 4.88)				
Aroclor-1016	2	3	5.22	(5.18 - 5.26)	5.22	(5.18 - 5.26)	5.22	(5.18 - 5.26)				
Aroclor-1016	2	4	5.55	(5.51 - 5.59)	5.55	(5.51 - 5.59)	5.55	(5.51 - 5.59)				
Aroclor-1016	2	5	5.91	(5.87 - 5.95)	5.91	(5.87 - 5.95)	5.91	(5.87 - 5.95)				
Aroclor-1260	2	1	7.21	(7.17 - 7.25)	7.22	(7.18 - 7.26)	7.22	(7.18 - 7.26)				
Aroclor-1260	2	2	7.30	(7.26 - 7.34)	7.30	(7.26 - 7.34)	7.30	(7.26 - 7.34)				
Aroclor-1260	2	3	7.92	(7.88 - 7.96)	7.93	(7.89 - 7.97)	7.93	(7.89 - 7.97)				
Aroclor-1260	2	4	8.28	(8.24 - 8.32)	8.28	(8.24 - 8.32)	8.28	(8.24 - 8.32)				
Aroclor-1260	2	5	8.98	(8.94 - 9.02)	8.98	(8.94 - 9.02)	8.98	(8.94 - 9.02)				
Aroclor-1221	2	1	4.21	(4.17 - 4.25)								
Aroclor-1221	2	2	4.36	(4.32 - 4.40)								
Aroclor-1221	2	3	4.42	(4.38 - 4.46)								
Aroclor-1232	2	1	4.42	(4.38 - 4.46)								
Aroclor-1232	2	2	4.84	(4.80 - 4.88)								
Aroclor-1232	2	3	5.23	(5.19 - 5.27)								
Aroclor-1232	2	4	5.91	(5.87 - 5.95)								
Aroclor-1232	2	5	6.06	(6.02 - 6.10)								
Aroclor-1242	2	1	4.42	(4.38 - 4.46)								
Aroclor-1242	2	2	4.84	(4.80 - 4.88)								
Aroclor-1242	2	3	5.22	(5.18 - 5.26)								
Aroclor-1242	2	4	5.55	(5.51 - 5.59)								
Aroclor-1242	2	5	5.91	(5.87 - 5.95)								
Aroclor-1248	2	1	4.84	(4.80 - 4.88)								
Aroclor-1248	2	2	5.22	(5.18 - 5.26)								
Aroclor-1248	2	3	5.54	(5.50 - 5.58)								
Aroclor-1248	2	4	6.05	(6.01 - 6.09)								
Aroclor-1248	2	5	6.19	(6.15 - 6.23)								
Aroclor-1254	2	1	6.41	(6.37 - 6.45)								
Aroclor-1254	2	2	6.75	(6.71 - 6.79)								
Aroclor-1254	2	3	7.15	(7.11 - 7.19)								
Aroclor-1254	2	4	7.67	(7.63 - 7.71)								
Aroclor-1254	2	5	8.34	(8.30 - 8.38)								
Aroclor-1262	2	1	7.71	(7.67 - 7.75)								
Aroclor-1262	2	2	8.87	(8.83 - 8.91)								
Aroclor-1262	2	3	8.98	(8.94 - 9.02)								
Aroclor-1262	2	4	9.56	(9.52 - 9.60)								
Aroclor-1262	2	5	10.09	(10.05 - 10.13)								
Aroclor-1268	2	1	8.38	(8.34 - 8.42)								
Aroclor-1268	2	2	8.42	(8.38 - 8.46)								
Aroclor-1268	2	3	9.30	(9.26 - 9.34)								
Aroclor-1268	2	4	9.46	(9.42 - 9.50)								
Aroclor-1268	2	5	10.09	(10.05 - 10.13)								
DCB-Surrogate	2	0	10.62	(10.56 - 10.68)	10.63	(10.57 - 10.69)	10.63	(10.57 - 10.69)				

Pesticide Data

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD05999-001
Client Id: SS-1
Data File: 5G79357.D
Analysis Date: 08/24/18 05:45
Date Rec/Extracted: 08/16/18-08/23/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.0053	U	7421-93-4	Endrin Aldehyde	0.0053	U
309-00-2	Aldrin	0.0053	U	53494-70-5	Endrin Ketone	0.0053	U
319-84-6	alpha-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
319-85-7	beta-BHC	0.0011	U	76-44-8	Heptachlor	0.0053	U
12789-03-6	Chlordane (Technical)	0.026	U	1024-57-3	Heptachlor Epoxide	0.0053	U
319-86-8	delta-BHC	0.0053	U	72-43-5	Methoxychlor	0.0053	U
60-57-1	Dieldrin	0.0011	U	72-54-8	p,p'-DDD	0.0026	U
959-98-8	Endosulfan I	0.0053	U	72-55-9	p,p'-DDE	0.0026	U
33213-65-9	Endosulfan II	0.0053	U	50-29-3	p,p'-DDT	0.0026	U
1031-07-8	Endosulfan Sulfate	0.0053	U	8001-35-2	Toxaphene	0.026	U
72-20-8	Endrin	0.0053	U	5103-74-2	y-chlordane	0.0053	U
57-74-9	Chlordane (Total)	0.0053	U				

Worksheet #: 477243

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2018\GC_5\Data\08-24-18\
Data File : 5G79357.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24-Aug-18, 05:45:53 (#1); 24-Aug-18, 05:45:52 (#2)
Operator : MS/MLC/ZM
Sample : AD05999-001
Misc : S,PEST
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Aug 27 11:46:28 2018
Quant Method : G:\GCDATA\2018\GC_5\METHODQT\5G_PEST0821.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Aug 21 08:49:23 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	6.054	6.137	66770518	44527722	72.162m	68.716m
22)DCB-Surrogate	13.011	13.640	51991401	33874882	71.484m	67.175m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2018\GC_5\Data\08-24-18\
Data File : 5G79357.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24-Aug-18, 05:45:53 (#1); 24-Aug-18, 05:45:52 (#2)
Operator : MS/MLC/ZM
Sample : AD05999-001
Misc : S,PEST
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Aug 27 11:46:28 2018
Quant Method : G:\GCDATA\2018\GC_5\METHODQT\5G_PEST0821.M
Quant Title : @GC_5,ug,608,8081
QLast Update : Tue Aug 21 08:49:23 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

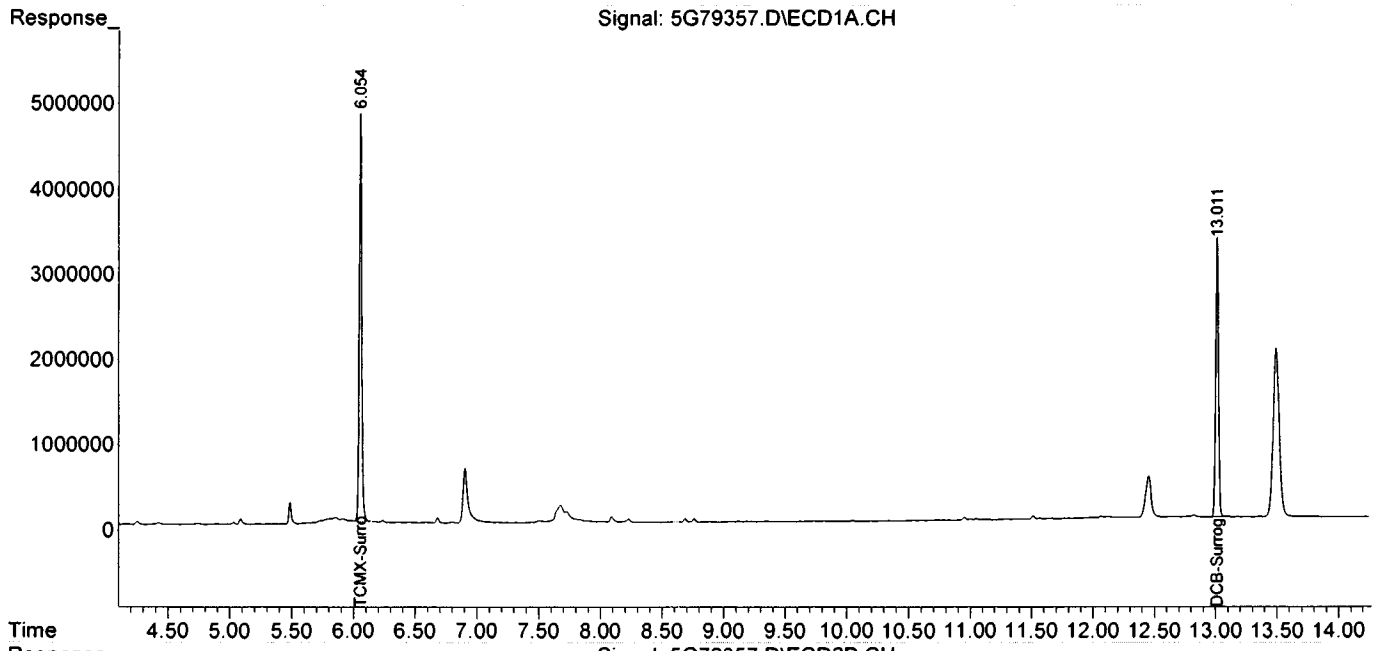

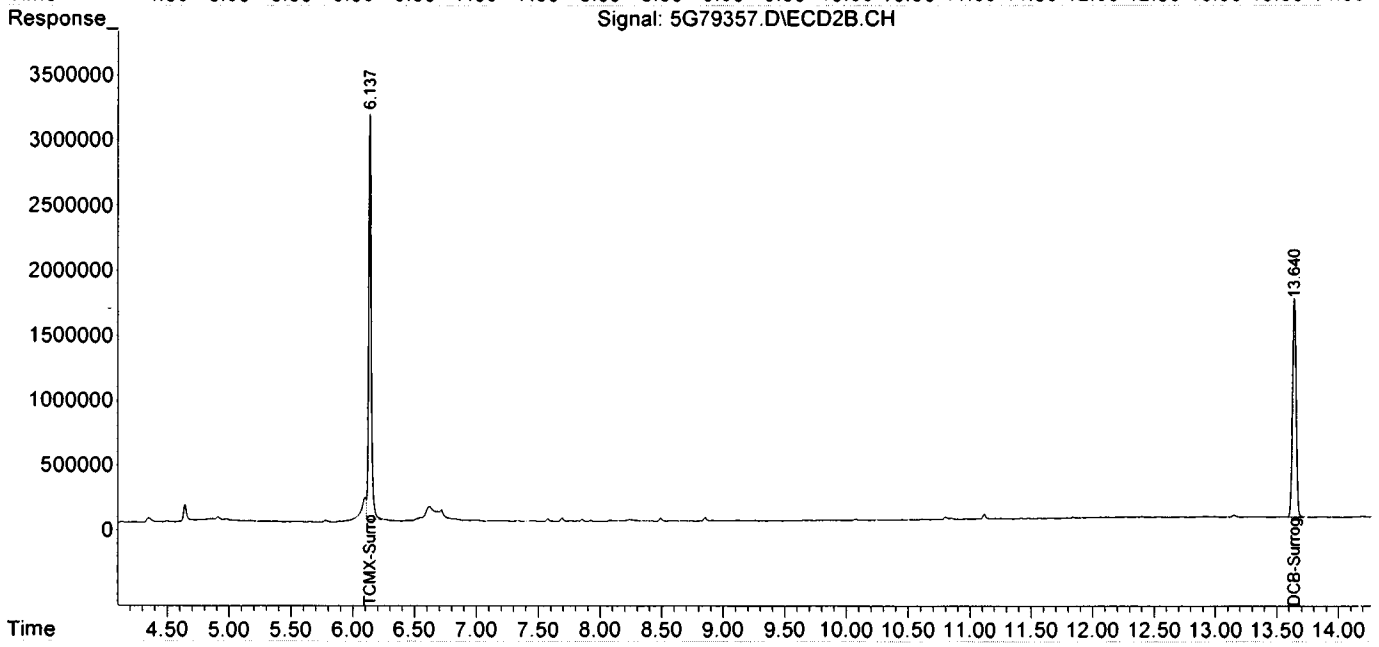

Form1

ORGANICS PESTICIDE REPORT

Sample Number: SMB69976
Client Id:
Data File: 6G91521.D
Analysis Date: 08/23/18 13:43
Date Rec/Extracted: NA-08/23/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.0050	U	7421-93-4	Endrin Aldehyde	0.0050	U
309-00-2	Aldrin	0.0050	U	53494-70-5	Endrin Ketone	0.0050	U
319-84-6	alpha-BHC	0.0010	U	58-89-9	gamma-BHC	0.0010	U
319-85-7	beta-BHC	0.0010	U	76-44-8	Heptachlor	0.0050	U
12789-03-6	Chlordane (Technical)	0.025	U	1024-57-3	Heptachlor Epoxide	0.0050	U
319-86-8	delta-BHC	0.0050	U	72-43-5	Methoxychlor	0.0050	U
60-57-1	Dieldrin	0.0010	U	72-54-8	p,p'-DDD	0.0025	U
959-98-8	Endosulfan I	0.0050	U	72-55-9	p,p'-DDE	0.0025	U
33213-65-9	Endosulfan II	0.0050	U	50-29-3	p,p'-DDT	0.0025	U
1031-07-8	Endosulfan Sulfate	0.0050	U	8001-35-2	Toxaphene	0.025	U
72-20-8	Endrin	0.0050	U	5103-74-2	y-chlordane	0.0050	U

Worksheet #: 477243

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2018\GC_6\Data\08-23-18\
Data File : 6G91521.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2018 13:43
Operator : MS/ZM/MLC
Sample : SMB69976
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 23 15:36:17 2018
Quant Method : G:\GCDATA\2018\GC_6\METHODQT\6G_P0822.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Aug 22 13:58:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	4.513	4.671	1025859	331600	75.367	71.398
22)DCB-Surrogate	11.682	12.465	1145711	393861	83.279	78.367

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2018\GC_6\Data\08-23-18\
Data File : 6G91521.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 23 Aug 2018 13:43
Operator : MS/ZM/MLC
Sample : SMB69976
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 23 15:36:17 2018
Quant Method : G:\GCDATA\2018\GC_6\METHODQT\6G_P0822.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Aug 22 13:58:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

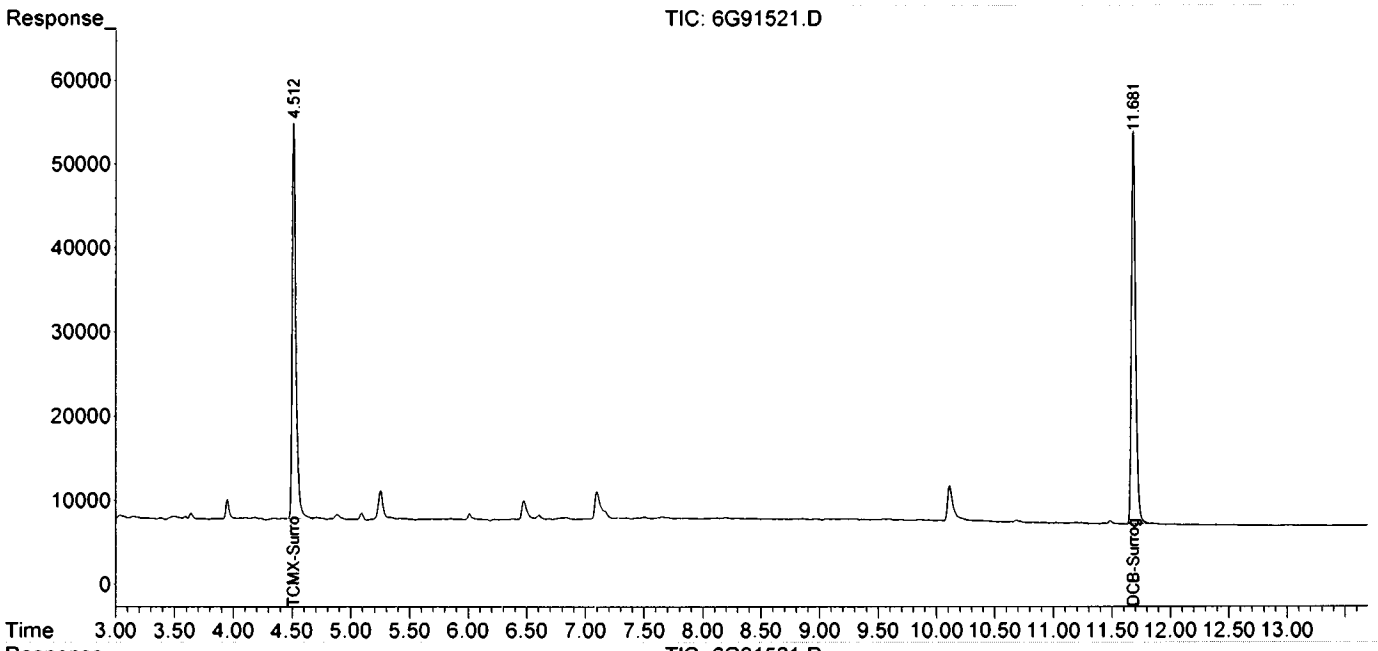

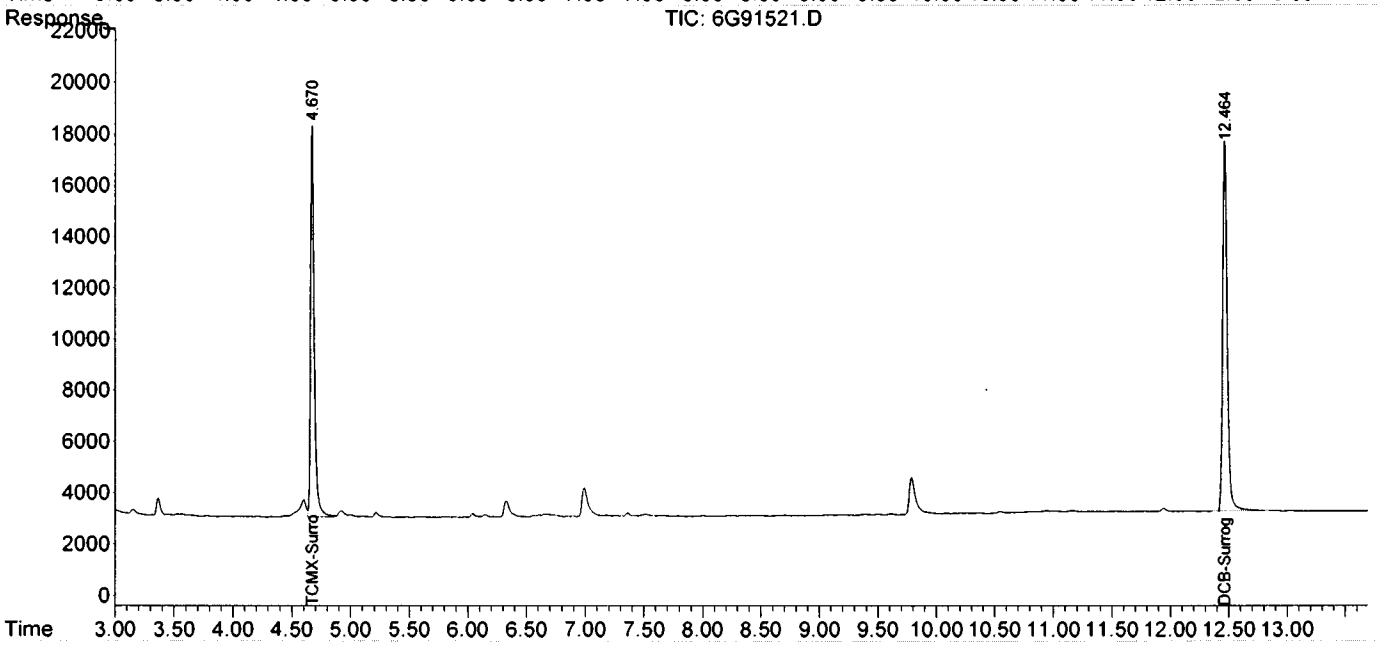

FORM2

Surrogate Recovery

Method: EPA 8081B

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column1 S3 Recov	Column2 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
6G91521.D	SMB69976	S	08/23/18 13:43	1		75	71	83	78		
5G79357.D	AD05999-001	S	08/24/18 05:45	1		72	69	71	67		
6G91556.D	AD05999-001(MS)	S	08/24/18 09:57	1		91	83	94	90		
6G91557.D	AD05999-001(MSD)	S	08/24/18 10:14	1		96	91	100	97		
6G91560.D	SMB69976(MS)	S	08/24/18 11:07	1		92	85	94	90		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8081B

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	37-141
S2=TCMX-Surrogate	100	37-141
S3=DCB-Surrogate	100	33-146
S4=DCB-Surrogate	100	33-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69976

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G91560.D	SMB69976(MS)	8/24/2018 11:07:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	75.66	0	100	76	60	130
gamma-BHC	1	73.14	0	100	73	60	130
beta-BHC	1	100.06	0	100	100	60	130
Heptachlor	1	90.51	0	100	91	60	130
delta-BHC	1	71.2	0	100	71	60	130
Aldrin	1	76.71	0	100	77	70	130
Heptachlor Epoxide	1	83.91	0	100	84	70	130
y-chlordane	1	80.87	0	100	81	70	130
a-chlordane	1	82.84	0	100	83	70	130
Endosulfan I	1	89.46	0	100	89	70	130
p,p'-DDE	1	76.95	0	100	77	70	130
Dieldrin	1	83.51	0	100	84	70	130
Endrin	1	90.18	0	100	90	70	130
p,p'-DDD	1	84.27	0	100	84	70	130
Endosulfan II	1	81.76	0	100	82	70	130
p,p'-DDT	1	77.83	0	100	78	70	130
Endrin Aldehyde	1	75.85	0	100	76	10	130
Endosulfan Sulfate	1	87.76	0	100	88	70	130
Methoxychlor	1	93.21	0	100	93	60	130
Endrin Ketone	1	80.85	0	100	81	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69976

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G91556.D	AD05999-001(MS)	8/24/2018 9:57:00 AM
Non Spike(If applicable):	5G79357.D	AD05999-001	8/24/2018 5:45:53 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	80.46	0	100	80	60	130
gamma-BHC	1	77.39	0	100	77	60	130
beta-BHC	1	98.91	0	100	99	60	130
Heptachlor	1	92.14	0	100	92	60	130
delta-BHC	1	77.59	0	100	78	60	130
Aldrin	1	82.37	0	100	82	70	130
Heptachlor Epoxide	1	91.95	0	100	92	70	130
y-chlordane	1	87.42	0	100	87	70	130
a-chlordane	1	88.89	0	100	89	70	130
Endosulfan I	1	96.46	0	100	96	70	130
p,p'-DDE	1	83.8	0	100	84	70	130
Dieldrin	1	90.26	0	100	90	70	130
Endrin	1	98.87	0	100	99	70	130
p,p'-DDD	1	90.97	0	100	91	70	130
Endosulfan II	1	86.9	0	100	87	70	130
p,p'-DDT	1	82.36	0	100	82	70	130
Endrin Aldehyde	1	82.81	0	100	83	10	130
Endosulfan Sulfate	1	93.52	0	100	94	70	130
Methoxychlor	1	95.94	0	100	96	60	130
Endrin Ketone	1	90.06	0	100	90	70	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G91557.D	AD05999-001(MSD)	8/24/2018 10:14:00 AM
Non Spike(If applicable):	5G79357.D	AD05999-001	8/24/2018 5:45:53 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	82.42	0	100	82	60	130
gamma-BHC	1	80.19	0	100	80	60	130
beta-BHC	1	100.53	0	100	101	60	130
Heptachlor	1	95.91	0	100	96	60	130
delta-BHC	1	80.22	0	100	80	60	130
Aldrin	1	84.73	0	100	85	70	130
Heptachlor Epoxide	1	94.31	0	100	94	70	130
y-chlordane	1	89.97	0	100	90	70	130
a-chlordane	1	91.55	0	100	92	70	130
Endosulfan I	1	98.73	0	100	99	70	130
p,p'-DDE	1	85.52	0	100	86	70	130
Dieldrin	1	92.41	0	100	92	70	130
Endrin	1	100.01	0	100	100	70	130
p,p'-DDD	1	92.84	0	100	93	70	130
Endosulfan II	1	89.96	0	100	90	70	130
p,p'-DDT	1	83.86	0	100	84	70	130
Endrin Aldehyde	1	85.16	0	100	85	10	130
Endosulfan Sulfate	1	94.4	0	100	94	70	130
Methoxychlor	1	98.78	0	100	99	60	130
Endrin Ketone	1	88.41	0	100	88	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: SMB69976

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G91557.D	AD05999-001(MSD)	8/24/2018 10:14:00 AM
Duplicate(If applicable):	6G91556.D	AD05999-001(MS)	8/24/2018 9:57:00 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
alpha-BHC	1	82.42	80.46	2.4	40
gamma-BHC	1	80.19	77.39	3.6	40
beta-BHC	1	100.53	98.91	1.6	40
Heptachlor	1	95.91	92.14	4	40
delta-BHC	1	80.22	77.59	3.3	40
Aldrin	1	84.73	82.37	2.8	40
Heptachlor Epoxide	1	94.31	91.95	2.5	40
y-chlordane	1	89.97	87.42	2.9	40
a-chlordane	1	91.55	88.89	2.9	40
Endosulfan I	1	98.73	96.46	2.3	40
p,p'-DDE	1	85.52	83.8	2	40
Dieldrin	1	92.41	90.26	2.4	40
Endrin	1	100.01	98.87	1.1	40
p,p'-DDD	1	92.84	90.97	2	40
Endosulfan II	1	89.96	86.9	3.5	40
p,p'-DDT	1	83.86	82.36	1.8	40
Endrin Aldehyde	1	85.16	82.81	2.8	40
Endosulfan Sulfate	1	94.4	93.52	0.94	40
Methoxychlor	1	98.78	95.94	2.9	40
Endrin Ketone	1	88.41	90.06	1.8	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: SMB69976
Blank Data File: 6G91521.D
Matrix: Soil

Blank Analysis Date: 08/23/18 13:43
Blank Extraction Date: 08/23/18
(If Applicable)
Method: EPA 8081B

Sample Number	Data File	Analysis Date
AD05999-001	5G79357.D	08/24/18 05:45
SMB69976(MS)	6G91560.D	08/24/18 11:07
AD05999-001(MSD	6G91557.D	08/24/18 10:14
AD05999-001(MS)	6G91556.D	08/24/18 09:57

Form 5

Method: EPA 8081B
Instrument: GC_5 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
5G79239.D	CAL EVAL	08/20/18 23:31	Soil					
5G79240.D	EVAL	08/20/18 23:49	Soil					
5G79241.D	CAL PEST@50PPB	08/21/18 00:07	Soil	5G79242.	13.0162	0.0061	13.6455	0.0066
5G79242.D	CAL PEST@2PPB	08/21/18 00:25	Soil	5G79242.	13.0170	0	13.6464	0
5G79243.D	CAL PEST@10PPB	08/21/18 00:44	Soil	5G79242.	13.0173	0.0023	13.6462	0.0015
5G79244.D	2PPB	08/21/18 01:02	Soil	5G79242.	13.0172	0.0015	13.6471	0.0051
5G79245.D	CAL PEST@100PPB	08/21/18 01:20	Soil	5G79242.	13.0148	0.0169	13.6438	0.0191
5G79246.D	CAL PEST@200PPB	08/21/18 01:38	Soil	5G79242.	13.0138	0.0246	13.6434	0.022
5G79247.D	CAL PEST@400PPB	08/21/18 01:56	Soil	5G79242.	13.0147	0.0177	13.6430	0.0249
5G79248.D	CAL CHLOR@100PPB	08/21/18 02:15	Soil	5G79242.	13.0177	0.0054	13.6472	0.0059
5G79249.D	CAL TOX@500PPB	08/21/18 02:33	Soil	5G79242.	13.0155	0.0115	13.6458	0.0044
5G79250.D	ICV	08/21/18 02:51	Soil	5G79242.	13.0165	0.0038	13.6455	0.0066
5G79251.D	AD05993-002	08/21/18 03:09	Soil	5G79242.	13.0121	0.0377	13.6404	0.044
5G79252.D	AD05993-003	08/21/18 03:27	Soil	5G79242.	13.0114	0.043	13.6391	0.0535
5G79253.D	AD05993-004	08/21/18 03:45	Soil	5G79242.	13.0121	0.0377	13.6404	0.044
5G79254.D	AD05993-005	08/21/18 04:04	Soil	5G79242.	13.0124	0.0353	13.6410	0.0396
5G79255.D	AD05993-008	08/21/18 04:22	Soil	5G79242.	13.0124	0.0353	13.6411	0.0388
5G79256.D	AD05993-010	08/21/18 04:40	Soil	5G79242.	13.0125	0.0346	13.6411	0.0388
5G79257.D	AD05993-013	08/21/18 04:58	Soil	5G79242.	13.0116	0.0415	13.6406	0.0425
5G79258.D	AD06009-006	08/21/18 05:16	Soil	5G79242.	13.0101	0.053	13.6388	0.0557
5G79259.D	AD06031-001	08/21/18 05:34	Soil	5G79242.	13.0127	0.033	13.6410	0.0396
5G79260.D	AD06031-005	08/21/18 05:52	Soil	5G79242.	13.0128	0.0323	13.6405	0.0432
5G79261.D	AD06031-014	08/21/18 06:11	Soil	5G79242.	13.0119	0.0392	13.6402	0.0454
5G79262.D	AD06031-016	08/21/18 06:29	Soil	5G79242.	13.0122	0.0369	13.6413	0.0374
5G79263.D	AD06031-018	08/21/18 06:47	Soil	5G79242.	13.0120	0.0384	13.6414	0.0366
5G79264.D	AD06031-012	08/21/18 07:05	Soil	5G79242.	13.0112	0.0446	13.6381	0.0608
5G79265.D	CAL EVAL	08/21/18 09:02	Soil					
5G79266.D	CAL PEST@200PPB	08/21/18 09:23	Soil	5G79242.	13.0137	0.0254	13.6366	0.0718

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B
Instrument: GC_6 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
6G91474.D	CAL EVAL	08/22/18 10:49	Soil					
6G91475.D	CAL PEST@50PPB	08/22/18 11:12	Soil	6G91477.	11.6873	0.0205	12.4674	0.0008
6G91476.D	CAL PEST@10PPB	08/22/18 11:30	Soil	6G91477.	11.6852	0.0026	12.4684	0.0072
6G91477.D	CAL PEST@2PPB	08/22/18 11:47	Soil	6G91477.	11.6849	0	12.4675	0
6G91478.D	CAL PEST@100PPB	08/22/18 12:05	Soil	6G91477.	11.6833	0.0137	12.4681	0.0048
6G91479.D	CAL PEST@200PPB	08/22/18 12:23	Soil	6G91477.	11.6851	0.0017	12.4676	0.0008
6G91480.D	CAL PEST@400PPB	08/22/18 12:40	Soil	6G91477.	11.6847	0.0017	12.4684	0.0072
6G91481.D	CAL CHLOR@100PPB	08/22/18 12:58	Soil	6G91477.	11.6849	0	12.4694	0.0152
6G91482.D	CAL TOX@500PPB	08/22/18 13:16	Soil	6G91477.	11.6862	0.0111	12.4698	0.0184
6G91483.D	ICV	08/22/18 13:33	Soil	6G91477.	11.6846	0.0026	12.4684	0.0072
6G91484.D	WMB69967(MS)	08/22/18 14:07	Aqueous	6G91477.	11.6903	0.0462	12.4684	0.0072
6G91485.D	SMB69966(MS)	08/22/18 14:24	Soil	6G91477.	11.6851	0.0017	12.4680	0.004
6G91486.D	SMB69953(MS)	08/22/18 14:42	Soil	6G91477.	11.6862	0.0111	12.4688	0.0104
6G91487.D	SMB69966	08/22/18 15:00	Soil	6G91477.	11.6855	0.0051	12.4676	0.0008
6G91488.D	AD06064-001(T)(MS)	08/22/18 15:17	Aqueous	6G91477.	11.6846	0.0026	12.4686	0.0088
6G91489.D	AD06064-001(T)(MSD)	08/22/18 15:35	Aqueous	6G91477.	11.6856	0.006	12.4689	0.0112
6G91490.D	AD06064-001(T)	08/22/18 15:53	Aqueous	6G91477.	11.6856	0.006	12.4701	0.0209
6G91491.D	AD06064-002(T)	08/22/18 16:10	Aqueous	6G91477.	11.6861	0.0103	12.4688	0.0104
6G91492.D	AD06064-003(T)	08/22/18 16:28	Aqueous	6G91477.	11.6858	0.0077	12.4698	0.0184
6G91493.D	EF-1-V-285748(8/21)	08/22/18 16:46	Aqueous	6G91477.	11.6862	0.0111	12.4696	0.0168
6G91494.D	AD06022-001	08/22/18 17:03	Aqueous	6G91477.	11.6860	0.0094	12.4698	0.0184
6G91495.D	AD06022-003	08/22/18 17:21	Aqueous	6G91477.	11.6864	0.0128	12.4693	0.0144
6G91496.D	AD06057-001	08/22/18 17:38	Aqueous	6G91477.	11.6854	0.0043	12.4687	0.0096
6G91497.D	CAL PEST@200PPB	08/22/18 18:38	Aqueous	6G91477.	11.6852	0.0026	12.4685	0.008

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B
Instrument: GC_6 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
6G91513.D	CAL EVAL	08/23/18 08:34	Aqueous					
6G91514.D	CAL PEST@200PPB	08/23/18 09:08	Aqueous	6G91514.	11.6861	0	12.4634	0
6G91515.D	AD06049-001(MS)	08/23/18 09:49	Soil	6G91514.	11.6860	0.0009	12.4621	0.0104
6G91516.D	AD06049-001(MSD)	08/23/18 10:07	Soil	6G91514.	11.6817	0.0377	12.4630	0.0032
6G91517.D	69972MBS	08/23/18 12:32	Soil	6G91514.	11.6853	0.0068	12.4621	0.0104
6G91518.D	69976MBS	08/23/18 12:50	Soil	6G91514.	11.6817	0.0377	12.4627	0.0056
6G91519.D	69978MBS	08/23/18 13:07	Soil	6G91514.	11.6815	0.0394	12.4643	0.0072
6G91520.D	SMB69972	08/23/18 13:25	Soil	6G91514.	11.6816	0.0385	12.4646	0.0096
6G91521.D	SMB69976	08/23/18 13:43	Soil	6G91514.	11.6816	0.0385	12.4646	0.0096
6G91522.D	SMB69978	08/23/18 14:00	Soil	6G91514.	11.6816	0.0385	12.4647	0.0104
6G91523.D	SMB69971	08/23/18 14:18	Soil	6G91514.	11.6818	0.0368	12.4647	0.0104
6G91524.D	69971MBS	08/23/18 14:35	Soil	6G91514.	11.6821	0.0342	12.4654	0.016
6G91525.D	AD06097-001	08/23/18 14:53	Soil	6G91514.	11.6819	0.0359	12.4666	0.0257
6G91526.D	AD06098-002	08/23/18 15:11	Soil	6G91514.	11.6815	0.0394	12.4649	0.012
6G91527.D	AD06063-002	08/23/18 15:28	Soil	6G91514.	11.6832	0.0248	12.4660	0.0209
6G91528.D	AD06097-001	08/23/18 15:46	Soil	6G91514.	11.6834	0.0231	12.4663	0.0233
6G91529.D	CAL PEST@200PPB	08/23/18 17:08	Soil	6G91514.	11.6847	0.012	12.4640	0.0048

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B

Instrument: GC_5 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
5G79337.D	CAL EVAL	08/23/18 23:42	Soil					
5G79338.D	EVAL	08/24/18 00:00	Soil					
5G79339.D	100PPB	08/24/18 00:18	Soil					
5G79340.D	CAL PEST@200PPB	08/24/18 00:36	Soil	5G79340.	13.0149	0	13.6431	0
5G79341.D	AD06049-044	08/24/18 00:55	Soil	5G79340.	13.0111	0.0292	13.6399	0.0235
5G79342.D	AD06049-046	08/24/18 01:13	Soil	5G79340.	13.0102	0.0361	13.6401	0.022
5G79343.D	AD06049-047	08/24/18 01:31	Soil	5G79340.	13.0105	0.0338	13.6405	0.0191
5G79344.D	AD06049-048	08/24/18 01:49	Soil	5G79340.	13.0107	0.0323	13.6387	0.0323
5G79345.D	AD06049-049	08/24/18 02:07	Soil	5G79340.	13.0110	0.03	13.6386	0.033
5G79346.D	AD06049-050	08/24/18 02:25	Soil	5G79340.	13.0102	0.0361	13.6383	0.0352
5G79347.D	AD06049-035	08/24/18 02:44	Soil	5G79340.	13.0105	0.0338	13.6386	0.033
5G79348.D	AD06049-036	08/24/18 03:02	Soil	5G79340.	13.0102	0.0361	13.6385	0.0337
5G79349.D	AD06049-037	08/24/18 03:20	Soil	5G79340.	13.0115	0.0261	13.6395	0.0264
5G79350.D	AD06049-038	08/24/18 03:38	Soil	5G79340.	13.0109	0.0307	13.6389	0.0308
5G79351.D	AD06049-039	08/24/18 03:56	Soil	5G79340.	13.0096	0.0407	13.6405	0.0191
5G79352.D	AD06049-040	08/24/18 04:14	Soil	5G79340.	13.0113	0.0277	13.6397	0.0249
5G79353.D	AD06051-002	08/24/18 04:33	Soil	5G79340.	13.0120	0.0223	13.6404	0.0198
5G79354.D	AD06051-003	08/24/18 04:51	Soil	5G79340.	13.0109	0.0307	13.6402	0.0213
5G79355.D	AD06051-004	08/24/18 05:09	Soil	5G79340.	13.0110	0.03	13.6405	0.0191
5G79356.D	AD06051-005	08/24/18 05:27	Soil	5G79340.	13.0119	0.0231	13.6404	0.0198
5G79357.D	AD05999-001	08/24/18 05:45	Soil	5G79340.	13.0113	0.0277	13.6403	0.0205
5G79358.D	AD06051-001	08/24/18 06:04	Soil	5G79340.	13.0101	0.0369	13.6400	0.0227
5G79359.D	AD06049-026	08/24/18 06:22	Soil	5G79340.	13.0098	0.0392	13.6390	0.0301
5G79360.D	AD06049-028	08/24/18 06:40	Soil	5G79340.	13.0109	0.0307	13.6397	0.0249
5G79361.D	CAL EVAL	08/24/18 08:55	Soil					
5G79362.D	CAL PEST@200PPB	08/24/18 09:32	Soil	5G79340.	13.0129	0.0154	13.6324	0.0785
5G79363.D	AD06049-029	08/24/18 09:58	Soil	5G79362.	13.0114	0.0115	13.6311	0.0095
5G79364.D	AD06049-030	08/24/18 10:16	Soil	5G79362.	13.0116	0.01	13.6386	0.0455
5G79365.D	AD06049-031	08/24/18 10:35	Soil	5G79362.	13.0103	0.02	13.6381	0.0418
5G79366.D	AD06049-032	08/24/18 10:53	Soil	5G79362.	13.0119	0.0077	13.6403	0.0579
5G79367.D	AD06049-041	08/24/18 11:11	Soil	5G79362.	13.0101	0.0215	13.6387	0.0462
5G79368.D	AD06049-042	08/24/18 11:29	Soil	5G79362.	13.0114	0.0115	13.6393	0.0506
5G79369.D	AD06049-043	08/24/18 11:47	Soil	5G79362.	13.0098	0.0238	13.6396	0.0528
5G79370.D	AD06102-002(MS)	08/24/18 12:05	Soil	5G79362.	13.0142	0.01	13.6406	0.0601
5G79371.D	AD06102-002(MSD)	08/24/18 12:24	Soil	5G79362.	13.0137	0.0061	13.6410	0.0631
5G79372.D	AD06102-002	08/24/18 12:42	Soil	5G79362.	13.0144	0.0115	13.6416	0.0675
5G79373.D	AD06126-003	08/24/18 13:00	Soil	5G79362.	13.0121	0.0061	13.6388	0.0469
5G79374.D	AD06066-001	08/24/18 13:18	Soil	5G79362.	13.0116	0.01	13.6391	0.0491
5G79375.D	CAL PEST@200PPB	08/24/18 14:29	Soil	5G79362.	13.0114	0.0115	13.6388	0.0469

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B

Instrument: GC_6 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
6G91530.D	CAL EVAL	08/23/18 23:46	Soil					
6G91531.D	EVAL	08/24/18 00:04	Soil					
6G91532.D	100PPB	08/24/18 00:21	Soil					
6G91533.D	CAL PEST@200PPB	08/24/18 00:39	Soil	6G91533.	11.6775	0	12.4609	0
6G91534.D	MBS DUP	08/24/18 00:56	Soil	6G91533.	11.6775	0	12.4610	0.0008
6G91535.D	MBS DUP	08/24/18 01:14	Soil	6G91533.	11.6774	0.0009	12.4620	0.0088
6G91536.D	AD06078-009	08/24/18 01:31	Soil	6G91533.	11.6773	0.0017	12.4615	0.0048
6G91537.D	AD06059-001	08/24/18 01:49	Soil	6G91533.	11.6763	0.0103	12.4541	0.0546
6G91538.D	AD06059-002	08/24/18 02:06	Soil	6G91533.	11.6772	0.0026	12.4519	0.0723
6G91539.D	AD06047-001	08/24/18 02:24	Soil	6G91533.	11.6773	0.0017	12.4544	0.0522
6G91540.D	AD06047-002	08/24/18 02:41	Soil	6G91533.	11.6770	0.0043	12.4597	0.0096
6G91541.D	AD06075-001	08/24/18 02:59	Soil	6G91533.	11.6765	0.0086	12.4596	0.0104
6G91542.D	AD06075-003	08/24/18 03:16	Soil	6G91533.	11.6771	0.0034	12.4577	0.0257
6G91543.D	AD06075-005	08/24/18 03:34	Soil	6G91533.	11.6775	0	12.4606	0.0024
6G91544.D	AD06075-007	08/24/18 03:51	Soil	6G91533.	11.6773	0.0017	12.4609	0
6G91545.D	AD06075-009	08/24/18 04:09	Soil	6G91533.	11.6777	0.0017	12.4603	0.0048
6G91546.D	AD06075-011	08/24/18 04:26	Soil	6G91533.	11.6769	0.0051	12.4603	0.0048
6G91547.D	AD06075-013	08/24/18 04:44	Soil	6G91533.	11.6771	0.0034	12.4584	0.0201
6G91548.D	AD06065-001	08/24/18 05:01	Soil	6G91533.	11.6769	0.0051	12.4594	0.012
6G91549.D	AD06073-001	08/24/18 05:19	Soil	6G91533.	11.6764	0.0094	12.4591	0.0145
6G91550.D	AD06073-002	08/24/18 05:36	Soil	6G91533.	11.6756	0.0163	12.4589	0.0161
6G91551.D	AD06073-003	08/24/18 05:54	Soil	6G91533.	11.6767	0.0069	12.4588	0.0169
6G91552.D	AD06073-004	08/24/18 06:11	Soil	6G91533.	11.6775	0	12.4601	0.0064
6G91553.D	AD06073-005	08/24/18 06:29	Soil	6G91533.	11.6767	0.0069	12.4593	0.0128
6G91554.D	CAL EVAL	08/24/18 09:07	Soil					
6G91555.D	CAL PEST@200PPB	08/24/18 09:29	Soil	6G91533.	11.6800	0.0214	12.4592	0.0136
6G91556.D	AD05999-001(MS)	08/24/18 09:57	Soil	6G91555.	11.6817	0.0145	12.4607	0.012
6G91557.D	AD05999-001(MSD)	08/24/18 10:14	Soil	6G91555.	11.6779	0.018	12.4604	0.0096
6G91558.D	SMB69971(MS)	08/24/18 10:32	Soil	6G91555.	11.6786	0.012	12.4613	0.0169
6G91559.D	SMB69972(MS)	08/24/18 10:49	Soil	6G91555.	11.6778	0.0188	12.4617	0.0201
6G91560.D	SMB69976(MS)	08/24/18 11:07	Soil	6G91555.	11.6782	0.0154	12.4612	0.016
6G91561.D	SMB69978(MS)	08/24/18 11:25	Soil	6G91555.	11.6788	0.0103	12.4616	0.0193
6G91562.D	69983(MS)	08/24/18 11:42	Soil	6G91555.	11.6793	0.006	12.4620	0.0225
6G91563.D	SMB69983	08/24/18 12:00	Soil	6G91555.	11.6782	0.0154	12.4624	0.0257
6G91564.D	AD06051-001(MS)	08/24/18 12:17	Soil	6G91555.	11.6785	0.0128	12.4625	0.0265
6G91565.D	AD06051-001(MSD)	08/24/18 12:35	Soil	6G91555.	11.6802	0.0017	12.4627	0.0281
6G91566.D	AD06049-034	08/24/18 12:52	Soil	6G91555.	11.6782	0.0154	12.4602	0.008
6G91567.D	AD06049-033	08/24/18 13:10	Soil	6G91555.	11.6791	0.0077	12.4614	0.0177
6G91568.D	AD06073-006	08/24/18 13:28	Soil	6G91555.	11.6784	0.0137	12.4617	0.0201
6G91569.D	AD06066-003	08/24/18 13:45	Soil	6G91555.	11.6806	0.0051	12.4629	0.0297
6G91570.D	AD06126-001	08/24/18 14:03	Soil	6G91555.	11.6804	0.0034	12.4628	0.0289
6G91571.D	CAL PEST@200PPB	08/24/18 14:41	Soil	6G91555.	11.6795	0.0043	12.4624	0.0257

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5G79242.D	CAL PEST@2PPB	08/21/18 00:25	2	5G79243.D	CAL PEST@10PPB	08/21/18 00:44
3	5G79241.D	CAL PEST@50PPB	08/21/18 00:07	4	5G79245.D	CAL PEST@100PPB	08/21/18 01:20
5	5G79246.D	CAL PEST@200PPB	08/21/18 01:38	6	5G79247.D	CAL PEST@400PPB	08/21/18 01:56
7	5G79248.D	CAL CHLOR@100PP	08/21/18 02:15	8	5G79249.D	CAL TOX@500PPB	08/21/18 02:33

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	LinF	122.86	106.84	97.479	94.182	98.074	90.951	----	----	102	6.06	0.999	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	1	0	Avg	146.30	133.60	129.21	128.63	140.15	134.33	----	----	135	7.32	0.999	0.999	5.0	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	1	0	LinF	161.25	132.53	129.60	119.96	128.34	121.79	----	----	132	7.84	0.999	0.999	11	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	1	0	LinF	66.947	55.086	50.386	48.715	52.928	50.175	----	----	54.0	8.73	0.999	0.999	12	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	1	0	Avg	59.769	52.804	55.375	51.245	59.108	60.074	----	----	56.4	8.12	0.999	0.999	6.8	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	1	0	Avg	130.64	117.15	108.50	109.85	122.14	116.92	----	----	118	9.04	0.999	0.999	7.0	2.00	10.00	50.00	100.0	200.0	400.0		
Aldrin	1	0	Avg	126.25	112.65	108.62	104.97	113.03	106.34	----	----	112	8.48	0.999	0.999	6.9	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	1	0	LinF	137.25	108.10	96.161	91.810	98.959	93.413	----	----	104	9.28	0.999	0.999	16	2.00	10.00	50.00	100.0	200.0	400.0		
v-chlordane	1	0	Avg	120.86	103.93	98.467	95.284	105.07	100.17	----	----	104	9.67	0.999	0.999	8.7	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	1	0	LinF	119.53	101.70	94.985	91.303	100.17	95.252	----	----	100	9.73	0.999	0.999	10	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	1	0	Avg	98.810	86.894	83.347	80.580	88.159	84.167	----	----	87.0	9.62	0.999	0.999	7.3	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	1	0	Avg	107.48	96.634	96.003	93.129	102.87	98.522	----	----	99.1	9.82	0.999	0.999	5.3	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	1	0	Avg	110.62	98.517	94.757	92.075	101.42	96.376	----	----	99.0	10.05	0.999	0.999	6.6	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	1	0	Avg	72.449	69.790	71.459	67.022	76.280	71.910	----	----	71.5	10.29	0.998	0.999	4.3	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	1	0	LinF	107.75	93.275	78.642	80.791	87.616	83.242	----	----	88.6	10.72	0.999	0.999	12	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	1	0	Avg	100.08	86.928	81.520	80.277	89.251	85.705	----	----	87.3	10.83	0.999	0.999	8.1	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	1	0	LinF	9.1089	22.149	52.903	50.206	65.665	68.575	----	----	44.8	10.92	0.996	0.998	54	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	1	0	Avg	77.710	63.902	59.231	66.484	73.867	71.177	----	----	68.7	11.29	0.999	0.999	9.9	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	1	0	Avg	81.823	67.029	64.673	66.009	74.792	71.622	----	----	71.0	11.64	0.999	0.999	9.2	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	1	0	LinF	11.923	15.389	26.462	25.546	32.298	33.382	----	----	24.2	11.57	0.997	0.998	36	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	1	0	Avg	72.177	70.010	70.408	73.999	84.451	82.394	----	----	75.6	12.11	0.999	0.999	8.3	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	1	0	LinF	102.39	79.119	69.541	67.842	75.702	72.340	----	----	77.8	13.02	0.999	0.999	16	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	1	1	Avg	----	----	----	----	----	----	----	----	5.07	7.92	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	2	Avg	----	----	----	----	----	----	----	----	11.7	9.67	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	3	Avg	----	----	----	----	----	----	----	----	17.4	9.73	-1	-1	Lvl=7	100.0							
Toxaphene	1	1	Avg	----	----	----	----	----	----	----	----	0.465	9.88	-1	-1	Lvl=8	500.0							
Toxaphene	1	2	Avg	----	----	----	----	----	----	----	----	1.70	10.41	-1	-1	Lvl=8	500.0							
Toxaphene	1	3	Avg	----	----	----	----	----	----	----	----	2.16	10.86	-1	-1	Lvl=8	500.0							
Toxaphene	1	4	Avg	----	----	----	----	----	----	----	----	1.64	11.17	-1	-1	Lvl=8	500.0							
Toxaphene	1	5	Avg	----	----	----	----	----	----	----	----	2.43	11.59	-1	-1	Lvl=8	500.0							
TCMX-Surrogate	2	0	Avg	76.417	66.377	61.170	59.660	64.453	60.716	----	----	64.8	6.14	0.999	0.999	9.6	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	2	0	Avg	98.661	93.691	94.979	91.220	98.683	93.668	----	----	95.2	7.15	0.999	0.999	3.1	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	2	0	Avg	88.509	82.093	78.092	77.092	85.202	81.213	----	----	82.0	7.69	0.999	0.999	5.2	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	2	0	LinF	48.444	45.964	37.257	35.627	38.256	36.068	----	----	40.3	7.78	0.999	0.999	14	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	2	0	Avg	59.589	53.234	60.115	55.272	63.248	61.541	----	----	58.8	8.12	0.999	0.999	6.5	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	2	0	LinF	116.67	87.977	75.698	78.561	87.420	83.180	----	----	88.3	8.27	0.999	0.999	17	2.00	10.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 12.43 Avg Rsd Col 2: 13.24

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

8081617 0146

Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5G79242.D	CAL PEST@2PPB	08/21/18 00:25	2	5G79243.D	CAL PEST@10PPB	08/21/18 00:44
3	5G79241.D	CAL PEST@50PPB	08/21/18 00:07	4	5G79245.D	CAL PEST@100PPB	08/21/18 01:20
5	5G79246.D	CAL PEST@200PPB	08/21/18 01:38	6	5G79247.D	CAL PEST@400PPB	08/21/18 01:56
7	5G79248.D	CAL CHLOR@100PP	08/21/18 02:15	8	5G79249.D	CAL TOX@500PPB	08/21/18 02:33

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aldrin	2	0	Avg	88.746	78.422	73.508	71.994	77.806	72.815	----	----	77.2	8.56	0.999	0.999	8.1	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	2	0	LinF	83.780	70.102	64.053	61.832	66.648	62.471	----	----	68.1	9.26	0.999	0.999	12	2.00	10.00	50.00	100.0	200.0	400.0		
γ-chlordane	2	0	Avg	85.618	72.769	68.138	66.953	73.623	69.695	----	----	72.8	9.46	0.999	0.999	9.3	2.00	10.00	50.00	100.0	200.0	400.0		
α-chlordane	2	0	Avg	73.955	62.774	59.705	59.405	66.193	63.371	----	----	64.2	9.66	0.999	0.999	8.4	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	2	0	LinF	86.862	71.531	63.101	60.911	64.682	59.816	----	----	67.8	9.71	0.998	0.999	15	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	2	0	Avg	71.175	63.196	62.206	62.150	69.118	66.114	----	----	65.7	9.94	0.999	0.999	5.8	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	2	0	Avg	81.261	70.446	65.728	64.468	70.228	65.892	----	----	69.7	10.08	0.999	0.999	8.9	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	2	0	Avg	38.092	37.530	41.732	37.977	44.781	43.094	----	----	40.5	10.53	0.998	0.998	7.6	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	2	0	LinF	74.015	62.647	51.693	54.721	59.342	55.690	----	----	59.7	10.61	0.999	0.999	13	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	2	0	LinF	77.326	69.391	58.542	57.760	62.731	58.980	----	----	64.1	10.74	0.999	0.999	12	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	2	0	LinF	17.131	19.602	36.791	33.988	44.799	47.202	----	----	33.3	10.97	0.996	0.998	38	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	2	0	LinF	67.499	50.823	40.692	46.286	50.973	48.595	----	----	50.8	11.12	0.999	0.999	18	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	2	0	LinF	63.253	48.459	44.454	44.602	50.170	47.579	----	----	49.8	11.26	0.999	0.999	14	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	2	0	LinF	8.7141	12.271	18.244	16.433	20.900	21.598	----	----	16.4	11.97	0.997	0.998	31	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	2	0	LinF	85.182	73.984	54.319	58.142	63.500	59.944	----	----	65.8	12.19	0.999	0.999	18	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	2	0	LinF	73.597	57.824	48.746	47.571	52.628	50.076	----	----	55.1	13.65	0.999	0.999	18	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	2	1	Avg	----	----	----	----	----	----	----	----	3.38	7.91	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	2	Avg	----	----	----	----	----	----	----	----	7.52	9.46	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	3	Avg	----	----	----	----	----	----	----	----	7.69	9.66	-1	-1	Lvl=7	100.0							
Toxaphene	2	1	Avg	----	----	----	----	----	----	----	----	0.589	9.82	-1	-1	Lvl=8	500.0							
Toxaphene	2	2	Avg	----	----	----	----	----	----	----	----	1.84	10.75	-1	-1	Lvl=8	500.0							
Toxaphene	2	3	Avg	----	----	----	----	----	----	----	----	1.09	11.01	-1	-1	Lvl=8	500.0							
Toxaphene	2	4	Avg	----	----	----	----	----	----	----	----	1.40	11.72	-1	-1	Lvl=8	500.0							
Toxaphene	2	5	Avg	----	----	----	----	----	----	----	----	1.08	11.79	-1	-1	Lvl=8	500.0							

Avg Rsd Col 1: 12.43 Avg Rsd Col 2: 13.24

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

8081617 0147

Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6G91477.D	CAL PEST@2PPB	08/22/18 11:47	2	6G91476.D	CAL PEST@10PPB	08/22/18 11:30
3	6G91475.D	CAL PEST@50PPB	08/22/18 11:12	4	6G91478.D	CAL PEST@100PPB	08/22/18 12:05
5	6G91479.D	CAL PEST@200PPB	08/22/18 12:23	6	6G91480.D	CAL PEST@400PPB	08/22/18 12:40
7	6G91481.D	CAL CHLOR@100PP	08/22/18 12:58	8	6G91482.D	CAL TOX@500PPB	08/22/18 13:16

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	LinF	2.3095	1.8732	1.6004	1.4526	1.4982	1.3170	----	----	1.68	4.52	0.996	0.999	22	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	1	0	Avg	2.2105	1.9718	1.9746	1.9175	2.1167	1.9299	----	----	2.02	5.70	0.998	0.999	5.8	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	1	0	Avg	2.2071	1.9192	1.8944	1.8026	1.9585	1.7754	----	----	1.93	6.22	0.997	0.999	8.0	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	1	0	LinF	1.9449	1.3264	1.0756	0.9871	1.0317	0.9147	----	----	1.21	7.14	0.996	0.999	32	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	1	0	LinF	2.3071	1.8106	1.6435	1.4989	1.5980	1.4412	----	----	1.72	6.52	0.997	0.999	18	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	1	0	Avg	1.9692	1.8835	1.7473	1.7182	1.9012	1.7289	----	----	1.82	7.47	0.997	0.999	5.8	2.00	10.00	50.00	100.0	200.0	400.0		
Aldrin	1	0	Avg	2.1327	1.8188	1.7394	1.6519	1.7863	1.6105	----	----	1.79	6.89	0.997	0.999	10	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	1	0	LinF	2.2271	1.8544	1.6636	1.5433	1.6222	1.4481	----	----	1.73	7.73	0.997	0.999	16	2.00	10.00	50.00	100.0	200.0	400.0		
v-chlordane	1	0	LinF	2.4312	1.9972	1.8283	1.7363	1.8700	1.6765	----	----	1.92	8.13	0.997	0.999	14	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	1	0	LinF	2.4642	2.0113	1.7942	1.6766	1.7850	1.6028	----	----	1.89	8.20	0.997	0.999	17	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	1	0	LinF	1.9413	1.6049	1.4126	1.2973	1.3279	1.1486	----	----	1.46	8.08	0.994	0.999	19	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	1	0	Avg	1.8596	1.6265	1.5945	1.5286	1.6567	1.4967	----	----	1.63	8.29	0.997	0.999	7.9	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	1	0	LinF	1.9389	1.6400	1.5394	1.4716	1.5874	1.4271	----	----	1.60	8.53	0.997	0.999	11	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	1	0	LinF	1.6634	1.4215	1.3736	1.2774	1.3754	1.2300	----	----	1.39	8.79	0.997	0.999	11	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	1	0	LinF	1.8414	1.5058	1.2838	1.2651	1.3502	1.2096	----	----	1.41	9.25	0.997	0.999	17	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	1	0	LinF	1.9491	1.5865	1.4323	1.3584	1.4426	1.2570	----	----	1.50	9.36	0.995	0.999	16	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	1	0	LinF	0.6518	0.6736	0.9428	0.8848	1.0283	0.9817	----	----	0.861	9.46	0.999	0.999	19	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	1	0	LinF	1.4404	1.3167	1.1028	1.0958	1.1857	1.0701	----	----	1.20	9.85	0.997	0.999	12	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	1	0	LinF	1.4591	1.2048	1.1182	1.0805	1.1841	1.1222	----	----	1.19	10.22	0.999	0.999	11	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	1	0	Avg	0.5878	0.5362	0.5866	0.5287	0.5682	0.5067	----	----	0.552	10.16	0.996	0.999	6.0	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	1	0	Avg	1.5134	1.3316	1.2375	1.2301	1.3406	1.2125	----	----	1.31	10.73	0.997	0.999	8.6	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	1	0	LinF	2.5615	2.0137	1.6253	1.4821	1.5289	1.3264	----	----	1.76	11.69	0.995	0.999	26	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	1	1	Avg	----	----	----	----	----	----	----	----	0.0919	6.31	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	2	Avg	----	----	----	----	----	----	----	----	0.228	8.13	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	3	Avg	----	----	----	----	----	----	----	----	0.353	8.20	-1	-1	Lvl=7	100.0							
Toxaphene	1	1	Avg	----	----	----	----	----	----	----	----	0.0342	8.92	-1	-1	Lvl=8	500.0							
Toxaphene	1	2	Avg	----	----	----	----	----	----	----	----	0.0214	9.05	-1	-1	Lvl=8	500.0							
Toxaphene	1	3	Avg	----	----	----	----	----	----	----	----	0.0395	9.39	-1	-1	Lvl=8	500.0							
Toxaphene	1	4	Avg	----	----	----	----	----	----	----	----	0.0336	9.72	-1	-1	Lvl=8	500.0							
Toxaphene	1	5	Avg	----	----	----	----	----	----	----	----	0.0422	10.18	-1	-1	Lvl=8	500.0							
TCMX-Surrogate	2	0	LinF	0.5838	0.4869	0.4490	0.4359	0.4907	0.4598	----	----	0.484	4.67	0.998	0.999	11	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	2	0	LinF	0.5505	0.4530	0.4907	0.5306	0.6627	0.6574	----	----	0.558	5.62	0.997	0.998	15	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	2	0	LinF	0.5408	0.4530	0.4794	0.5038	0.6126	0.5991	----	----	0.532	6.16	0.998	0.998	12	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	2	0	LinF	0.4064	0.3463	0.3087	0.2999	0.3370	0.3160	----	----	0.336	6.25	0.998	0.999	12	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	2	0	LinF	0.9232	0.4741	0.4180	0.3964	0.4696	0.4651	----	----	0.524	6.61	0.998	0.999	38	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	2	0	LinF	0.5387	0.4257	0.4479	0.4883	0.6084	0.5893	----	----	0.516	6.75	0.997	0.997	14	2.00	10.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 14.28 Avg Rsd Col 2: 14.43

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

8081617 0148

Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6G91477.D	CAL PEST@2PPB	08/22/18 11:47	2	6G91476.D	CAL PEST@10PPB	08/22/18 11:30
3	6G91475.D	CAL PEST@50PPB	08/22/18 11:12	4	6G91478.D	CAL PEST@100PPB	08/22/18 12:05
5	6G91479.D	CAL PEST@200PPB	08/22/18 12:23	6	6G91480.D	CAL PEST@400PPB	08/22/18 12:40
7	6G91481.D	CAL CHLOR@100PP	08/22/18 12:58	8	6G91482.D	CAL TOX@500PPB	08/22/18 13:16

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aldrin	2	0	LinF	0.5659	0.4307	0.4118	0.4284	0.5203	0.5157	----	----	0.479	7.06	0.998	0.998	13	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	2	0	LinF	0.5580	0.4414	0.4026	0.3992	0.4701	0.4575	----	----	0.455	7.79	0.998	0.998	13	2.00	10.00	50.00	100.0	200.0	400.0		
v-chlordane	2	0	LinF	0.5780	0.4609	0.4234	0.4232	0.5072	0.4992	----	----	0.482	8.00	0.998	0.998	12	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	2	0	LinF	0.5310	0.4278	0.3995	0.4012	0.4695	0.4473	----	----	0.446	8.21	0.998	0.998	11	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	2	0	LinF	0.5660	0.4508	0.4105	0.4082	0.4910	0.4892	----	----	0.469	8.26	0.998	0.998	13	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	2	0	LinF	0.4731	0.3937	0.3793	0.3917	0.4799	0.4772	----	----	0.433	8.51	0.998	0.998	11	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	2	0	LinF	0.4872	0.3975	0.3754	0.3833	0.4640	0.4613	----	----	0.428	8.66	0.998	0.998	11	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	2	0	Avg	0.3761	0.3167	0.3168	0.3107	0.3797	0.3748	----	----	0.346	9.13	0.998	0.998	9.9	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	2	0	LinF	0.4472	0.3769	0.3220	0.3400	0.4004	0.3877	----	----	0.379	9.22	0.998	0.998	12	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	2	0	LinF	0.5225	0.4172	0.3748	0.3773	0.4454	0.4276	----	----	0.428	9.35	0.998	0.998	13	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	2	0	LinF	0.1972	0.1959	0.2646	0.2416	0.3108	0.3209	----	----	0.255	9.60	0.997	0.998	21	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	2	0	LinF	0.5301	0.3994	0.3253	0.3341	0.3782	0.3577	----	----	0.388	9.76	0.998	0.999	19	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	2	0	LinF	0.4447	0.3421	0.3022	0.2993	0.3515	0.3420	----	----	0.347	9.91	0.998	0.998	15	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	2	0	Avg	0.1540	0.1472	0.1745	0.1567	0.1805	0.1712	----	----	0.164	10.67	0.998	0.999	8.0	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	2	0	Avg	0.5169	0.4292	0.3984	0.4127	0.4791	0.4575	----	----	0.449	10.90	0.998	0.998	9.9	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	2	0	LinF	0.8381	0.6503	0.5317	0.4989	0.5385	0.4932	----	----	0.592	12.47	0.998	0.999	23	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	2	1	Avg	----	----	----	----	----	----	----	----	0.0234	6.40	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	2	Avg	----	----	----	----	----	----	----	----	0.0940	8.01	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	3	Avg	----	----	----	----	----	----	----	----	0.0520	8.21	-1	-1	Lvl=7	100.0							
Toxaphene	2	1	Avg	----	----	----	----	----	----	----	----	0.00603	8.90	-1	-1	Lvl=8	500.0							
Toxaphene	2	2	Avg	----	----	----	----	----	----	----	----	0.00743	9.16	-1	-1	Lvl=8	500.0							
Toxaphene	2	3	Avg	----	----	----	----	----	----	----	----	0.00713	9.65	-1	-1	Lvl=8	500.0							
Toxaphene	2	4	Avg	----	----	----	----	----	----	----	----	0.0115	10.41	-1	-1	Lvl=8	500.0							
Toxaphene	2	5	Avg	----	----	----	----	----	----	----	----	0.00753	10.48	-1	-1	Lvl=8	500.0							

Avg Rsd Col 1: 14.28 Avg Rsd Col 2: 14.43

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

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Form7
Continuing Calibration

Method: EPA 8081B

Data File:				5G79340.D			5G79362.D			6G91514.D			6G91529.D			6G91555.D		
Method:				8081			8081			8081			8081			8081		
Calibration Name:				CAL PEST@200PP			CAL PEST@200PP			CAL PEST@200PP			CAL PEST@200PP			CAL PEST@200PP		
Calibration Date/Time				08/24/18 00:36			08/24/18 09:32			08/23/18 09:08			08/23/18 17:08			08/24/18 09:29		
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
TCMX-Surrogate	20	1	0	213.0	200	6.5	208.6	200	4.3	201.3	200	0.7	215.2	200	7.6	198.5	200	0.8
alpha-BHC	20	1	0	209.0	200	4.5	211.2	200	5.6	193.6	200	3.2	203.6	200	1.8	188	200	6.0
gamma-BHC	20	1	0	209.8	200	4.9	207.9	200	4.0	186.8	200	6.6	196.4	200	1.8	182.4	200	8.8
beta-BHC	20	1	0	209.1	200	4.5	209.7	200	4.8	206.9	200	3.5	206.8	200	3.4	196.1	200	1.9
Heptachlor	20	1	0	232.6	200	16.3	253.4	200	26.7*	189.8	200	5.1	202.9	200	1.4	192.4	200	3.8
delta-BHC	20	1	0	206.9	200	3.5	208.7	200	4.3	187.5	200	6.3	196.6	200	1.7	183.9	200	8.1
Aldrin	20	1	0	202.9	200	1.4	202.4	200	1.2	182.2	200	8.9	192.6	200	3.7	178.6	200	10.7
Heptachlor Epoxide	20	1	0	209.8	200	4.9	210.6	200	5.3	207.4	200	3.7	210.7	200	5.3	199.3	200	0.3
y-chlordane	20	1	0	200.4	200	0.2	201.5	200	0.7	206.4	200	3.2	206.6	200	3.3	195.6	200	2.2
a-chlordane	20	1	0	206.6	200	3.3	208.4	200	4.2	207.0	200	3.5	206.6	200	3.3	195.3	200	2.3
Endosulfan I	20	1	0	202.7	200	1.3	209.1	200	4.5	211.4	200	5.7	212.5	200	6.3	203.8	200	1.9
p,p'-DDE	20	1	0	204.8	200	2.4	207.6	200	3.8	188.6	200	5.7	196.4	200	1.8	183.8	200	8.1
Dieldrin	20	1	0	203	200	1.5	207.1	200	3.6	204.7	200	2.4	207.9	200	3.9	196.3	200	1.9
Endrin	20	1	0	212.5	200	6.3	219.7	200	9.9	196.6	200	1.7	217.9	200	8.9	204.2	200	2.1
p,p'-DDD	20	1	0	203.7	200	1.8	212.5	200	6.2	198.2	200	0.9	208.0	200	4.0	192.1	200	3.9
Endosulfan II	20	1	0	198.4	200	0.8	206.1	200	3.0	213.8	200	6.9	210.6	200	5.3	202.3	200	1.2
p,p'-DDT	20	1	0	187.4	200	6.3	196.4	200	1.8	189.8	200	5.1	193.9	200	3.0	187.1	200	6.4
Endrin Aldehyde	20	1	0	204.6	200	2.3	212.7	200	6.4	206.5	200	3.3	203.2	200	1.6	188.0	200	6.0
Endosulfan Sulfate	20	1	0	202.1	200	1.0	208.1	200	4.1	205.6	200	2.8	186.4	200	6.8	183.4	200	8.3
Methoxychlor	20	1	0	186	200	7.0	205.3	200	2.6	184.5	200	7.8	189.1	200	5.5	184.8	200	7.6
Endrin Ketone	20	1	0	216.1	200	8.0	231.3	200	15.7	194.7	200	2.6	208.9	200	4.5	185.3	200	7.4
DCB-Surrogate	20	1	0	193.9	200	3.0	209.9	200	4.9	219.9	200	10.0	208.8	200	4.4	200.5	200	0.3
Average Difference	20	1	0			4.2			5.8			4.5			4.1			4.5
TCMX-Surrogate	20	2	0	198.7	200	0.7	194.3	200	2.8	203.3	200	1.6	220.8	200	10.4	196.4	200	1.8
alpha-BHC	20	2	0	207.4	200	3.7	199.3	200	0.3	198	200	1.0	214.9	200	7.4	188.8	200	5.6
gamma-BHC	20	2	0	207.7	200	3.8	201.1	200	0.6	198.9	200	0.6	216.6	200	8.3	190.9	200	4.6
beta-BHC	20	2	0	204.4	200	2.2	192.3	200	3.9	205.2	200	2.6	218.5	200	9.2	195.5	200	2.2
Heptachlor	20	2	0	211.1	200	5.6	218.5	200	9.2	188.1	200	5.9	214.8	200	7.4	186.3	200	6.9
delta-BHC	20	2	0	206.2	200	3.1	198.5	200	0.8	198.3	200	0.9	215.3	200	7.6	190.5	200	4.8
Aldrin	20	2	0	198.3	200	0.8	190.8	200	4.6	199.3	200	0.4	213	200	6.5	188.8	200	5.6
Heptachlor Epoxide	20	2	0	208.0	200	4.0	203.4	200	1.7	203.2	200	1.6	215.9	200	8.0	193.1	200	3.4
y-chlordane	20	2	0	197.2	200	1.4	188.8	200	5.6	201.4	200	0.7	214.1	200	7.1	189.8	200	5.1
a-chlordane	20	2	0	202.1	200	1.0	196.1	200	1.9	207.4	200	3.7	217.9	200	9.0	195.2	200	2.4
Endosulfan I	20	2	0	206.3	200	3.2	200.1	200	0.1	201.6	200	0.8	211.9	200	6.0	188.9	200	5.6
p,p'-DDE	20	2	0	203.7	200	1.9	199.0	200	0.5	200.6	200	0.3	211.9	200	5.9	190.4	200	4.8
Dieldrin	20	2	0	196.2	200	1.9	192.1	200	4.0	200.6	200	0.3	213.5	200	6.7	189.4	200	5.3
Endrin	20	2	0	225.9	200	13.0	235.1	200	17.5	208.2	200	4.1	241.2	200	20.6*	213.9	200	7.0
p,p'-DDD	20	2	0	200.3	200	0.1	198.7	200	0.6	194.8	200	2.6	210.3	200	5.2	189.4	200	5.3
Endosulfan II	20	2	0	199	200	0.5	198	200	1.0	206.2	200	3.1	215.4	200	7.7	194.9	200	2.6
p,p'-DDT	20	2	0	188.9	200	5.6	192.2	200	3.9	180.3	200	9.9	208.5	200	4.3	180.7	200	9.6
Endrin Aldehyde	20	2	0	195.1	200	2.4	200.8	200	0.4	205.7	200	2.8	212	200	6.0	191.5	200	4.2
Endosulfan Sulfate	20	2	0	201.7	200	0.8	200.3	200	0.2	197.2	200	1.4	211.6	200	5.8	189.7	200	5.2
Methoxychlor	20	2	0	187.5	200	6.3	204.7	200	2.3	188.2	200	5.9	231.7	200	15.8	203.5	200	1.7
Endrin Ketone	20	2	0	199.5	200	0.3	203.4	200	1.7	209.6	200	4.8	215.8	200	7.9	198.8	200	0.6
DCB-Surrogate	20	2	0	192.1	200	3.9	191.9	200	4.0	210 8	200	5.4	214.7	200	7.4	199.6	200	0.2
Average Difference	20	2	0			3.0			3.1			2.7			8.2			4.3

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
Continuing Calibration

Method: EPA 8081B

Data File: 6G91571.D
Method: 8081
Calibration Name: CAL PEST@200PP
Calibration Date/Time 08/24/18 14:41

Compound	Limit	Col	Mr	Conc Conc	Conc Exp	%Diff	Conc Conc	Conc Exp	%Diff	Conc Conc	Conc Exp	%Diff	Conc Conc	Conc Exp	%Diff
TCMX-Surrogate	20	1	0	222.7	200	11.4									
alpha-BHC	20	1	0	209.1	200	4.6									
gamma-BHC	20	1	0	203.3	200	1.6									
beta-BHC	20	1	0	212.5	200	6.2									
Heptachlor	20	1	0	220.9	200	10.5									
delta-BHC	20	1	0	203	200	1.5									
Aldrin	20	1	0	199.1	200	0.5									
Heptachlor Epoxide	20	1	0	217.4	200	8.7									
y-chlordane	20	1	0	213.2	200	6.6									
a-chlordane	20	1	0	211.4	200	5.7									
Endosulfan I	20	1	0	219.4	200	9.7									
p,p'-DDE	20	1	0	200.1	200	0.1									
Dieldrin	20	1	0	212.3	200	6.1									
Endrin	20	1	0	222.7	200	11.4									
p,p'-DDD	20	1	0	208.6	200	4.3									
Endosulfan II	20	1	0	211.5	200	5.8									
p,p'-DDT	20	1	0	200.9	200	0.5									
Endrin Aldehyde	20	1	0	200.3	200	0.2									
Endosulfan Sulfate	20	1	0	205.9	200	2.9									
Methoxychlor	20	1	0	198.0	200	1.0									
Endrin Ketone	20	1	0	198.1	200	0.9									
DCB-Surrogate	20	1	0	211.0	200	5.5									
Average Difference	20	1	0			4.8									
TCMX-Surrogate	20	2	0	220.3	200	10.1									
alpha-BHC	20	2	0	212.1	200	6.0									
gamma-BHC	20	2	0	214.7	200	7.3									
beta-BHC	20	2	0	214.6	200	7.3									
Heptachlor	20	2	0	220.6	200	10.3									
delta-BHC	20	2	0	212.3	200	6.1									
Aldrin	20	2	0	211.6	200	5.8									
Heptachlor Epoxide	20	2	0	215.4	200	7.7									
y-chlordane	20	2	0	211.3	200	5.7									
a-chlordane	20	2	0	215.6	200	7.8									
Endosulfan I	20	2	0	210.3	200	5.2									
p,p'-DDE	20	2	0	209.9	200	4.9									
Dieldrin	20	2	0	211.6	200	5.8									
Endrin	20	2	0	240.9	200	20.5									
p,p'-DDD	20	2	0	211.0	200	5.5									
Endosulfan II	20	2	0	212.6	200	6.3									
p,p'-DDT	20	2	0	210.4	200	5.2									
Endrin Aldehyde	20	2	0	209.9	200	4.9									
Endosulfan Sulfate	20	2	0	216.5	200	8.3									
Methoxychlor	20	2	0	237.4	200	18.7									
Endrin Ketone	20	2	0	218.0	200	9.0									
DCB-Surrogate	20	2	0	219.7	200	9.9									
Average Difference	20	2	0			8.1									

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8081B

			5G79242.D		6G91477.D		5G79340.D		6G91514.D		6G91555.D	
Data File:			5G79242.D		6G91477.D		5G79340.D		6G91514.D		6G91555.D	
Calibration Name:			CAL PEST@2PPB		CAL PEST@2PPB		CAL PEST@200PPB		CAL PEST@200PPB		CAL PEST@200PPB	
Calibration Date/Time			8/21/2018 12:25:52 AM		8/22/2018 11:47:00 AM		8/24/2018 12:36:47 AM		8/23/2018 9:08:00 AM		8/24/2018 9:29:00 AM	
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
TCMX-Surrogate	1	0	6.06	(6.00 - 6.12)	4.51	(4.45 - 4.57)	6.06	(6.00 - 6.12)	4.52	(4.46 - 4.58)	4.51	(4.45 - 4.57)
alpha-BHC	1	0	7.32	(7.28 - 7.36)	5.70	(5.66 - 5.74)	7.31	(7.27 - 7.35)	5.70	(5.66 - 5.74)	5.69	(5.65 - 5.73)
gamma-BHC	1	0	7.84	(7.80 - 7.88)	6.22	(6.18 - 6.26)	7.84	(7.80 - 7.88)	6.22	(6.18 - 6.26)	6.22	(6.18 - 6.26)
beta-BHC	1	0	8.73	(8.65 - 8.81)	7.13	(7.05 - 7.21)	8.72	(8.64 - 8.80)	7.13	(7.05 - 7.21)	7.13	(7.05 - 7.21)
Heptachlor	1	0	8.12	(8.08 - 8.16)	6.51	(6.47 - 6.55)	8.12	(8.08 - 8.16)	6.51	(6.47 - 6.55)	6.51	(6.47 - 6.55)
delta-BHC	1	0	9.04	(8.96 - 9.12)	7.46	(7.38 - 7.54)	9.04	(8.96 - 9.12)	7.47	(7.39 - 7.55)	7.46	(7.38 - 7.54)
Aldrin	1	0	8.48	(8.40 - 8.56)	6.88	(6.80 - 6.96)	8.48	(8.40 - 8.56)	6.88	(6.80 - 6.96)	6.88	(6.80 - 6.96)
Heptachlor Epoxide	1	0	9.28	(9.24 - 9.32)	7.72	(7.68 - 7.76)	9.28	(9.24 - 9.32)	7.73	(7.69 - 7.77)	7.72	(7.68 - 7.76)
v-chlordane	1	0	9.67	(9.63 - 9.71)	8.13	(8.09 - 8.17)	9.67	(9.63 - 9.71)	8.13	(8.09 - 8.17)	8.12	(8.08 - 8.16)
a-chlordane	1	0	9.73	(9.69 - 9.77)	8.20	(8.16 - 8.24)	9.73	(9.69 - 9.77)	8.20	(8.16 - 8.24)	8.19	(8.15 - 8.23)
Endosulfan I	1	0	9.62	(9.58 - 9.66)	8.08	(8.04 - 8.12)	9.62	(9.58 - 9.66)	8.08	(8.04 - 8.12)	8.08	(8.04 - 8.12)
p,p'-DDE	1	0	9.82	(9.74 - 9.90)	8.29	(8.21 - 8.37)	9.82	(9.74 - 9.90)	8.29	(8.21 - 8.37)	8.29	(8.21 - 8.37)
Dieldrin	1	0	10.05	(9.97 - 10.13)	8.53	(8.45 - 8.61)	10.05	(9.97 - 10.13)	8.53	(8.45 - 8.61)	8.53	(8.45 - 8.61)
Endrin	1	0	10.29	(10.25 - 10.33)	8.79	(8.75 - 8.83)	10.29	(10.25 - 10.33)	8.79	(8.75 - 8.83)	8.78	(8.74 - 8.82)
p,p'-DDD	1	0	10.72	(10.64 - 10.80)	9.25	(9.17 - 9.33)	10.72	(10.64 - 10.80)	9.25	(9.17 - 9.33)	9.24	(9.16 - 9.32)
Endosulfan II	1	0	10.83	(10.75 - 10.91)	9.36	(9.28 - 9.44)	10.83	(10.75 - 10.91)	9.36	(9.28 - 9.44)	9.35	(9.27 - 9.43)
p,p'-DDT	1	0	10.92	(10.84 - 11.00)	9.46	(9.38 - 9.54)	10.92	(10.84 - 11.00)	9.46	(9.38 - 9.54)	9.45	(9.37 - 9.53)
Endrin Aldehyde	1	0	11.29	(11.21 - 11.37)	9.85	(9.77 - 9.93)	11.29	(11.21 - 11.37)	9.85	(9.77 - 9.93)	9.84	(9.76 - 9.92)
Endosulfan Sulfate	1	0	11.64	(11.60 - 11.68)	10.22	(10.18 - 10.26)	11.64	(11.60 - 11.68)	10.22	(10.18 - 10.26)	10.21	(10.17 - 10.25)
Methoxychlor	1	0	11.57	(11.53 - 11.61)	10.16	(10.12 - 10.20)	11.57	(11.53 - 11.61)	10.16	(10.12 - 10.20)	10.16	(10.12 - 10.20)
Endrin Ketone	1	0	12.11	(12.03 - 12.19)	10.73	(10.65 - 10.81)	12.11	(12.03 - 12.19)	10.73	(10.65 - 10.81)	10.72	(10.64 - 10.80)
DCB-Surrogate	1	0	13.02	(12.96 - 13.08)	11.69	(11.63 - 11.75)	13.01	(12.95 - 13.07)	11.69	(11.63 - 11.75)	11.68	(11.62 - 11.74)
Chlordane (Technical	1	1										
Chlordane (Technical	1	2										
Chlordane (Technical	1	3										
Toxaphene	1	1	9.88	(9.84 - 9.92)	8.92	(8.88 - 8.96)						
Toxaphene	1	2	10.41	(10.37 - 10.45)	9.05	(9.01 - 9.09)						
Toxaphene	1	3	10.86	(10.82 - 10.90)	9.39	(9.35 - 9.43)						
Toxaphene	1	4	11.17	(11.13 - 11.21)	9.72	(9.68 - 9.76)						
Toxaphene	1	5	11.59	(11.55 - 11.63)	10.18	(10.14 - 10.22)						
TCMX-Surrogate	2	0	6.14	(6.08 - 6.20)	4.67	(4.61 - 4.73)	6.14	(6.08 - 6.20)	4.67	(4.61 - 4.73)	4.67	(4.61 - 4.73)
alpha-BHC	2	0	7.15	(7.11 - 7.19)	5.62	(5.58 - 5.66)	7.15	(7.11 - 7.19)	5.62	(5.58 - 5.66)	5.61	(5.57 - 5.65)
gamma-BHC	2	0	7.69	(7.65 - 7.73)	6.16	(6.12 - 6.20)	7.69	(7.65 - 7.73)	6.16	(6.12 - 6.20)	6.16	(6.12 - 6.20)
beta-BHC	2	0	7.78	(7.70 - 7.86)	6.25	(6.17 - 6.33)	7.77	(7.69 - 7.85)	6.24	(6.16 - 6.32)	6.24	(6.16 - 6.32)
Heptachlor	2	0	8.12	(8.08 - 8.16)	6.61	(6.57 - 6.65)	8.12	(8.08 - 8.16)	6.61	(6.57 - 6.65)	6.60	(6.56 - 6.64)
delta-BHC	2	0	8.27	(8.19 - 8.35)	6.75	(6.67 - 6.83)	8.26	(8.18 - 8.34)	6.75	(6.67 - 6.83)	6.74	(6.66 - 6.82)
Aldrin	2	0	8.56	(8.48 - 8.64)	7.06	(6.98 - 7.14)	8.56	(8.48 - 8.64)	7.06	(6.98 - 7.14)	7.06	(6.98 - 7.14)
Heptachlor Epoxide	2	0	9.26	(9.22 - 9.30)	7.79	(7.75 - 7.83)	9.26	(9.22 - 9.30)	7.79	(7.75 - 7.83)	7.79	(7.75 - 7.83)
v-chlordane	2	0	9.46	(9.42 - 9.50)	8.00	(7.96 - 8.04)	9.46	(9.42 - 9.50)	8.00	(7.96 - 8.04)	8.00	(7.96 - 8.04)
a-chlordane	2	0	9.66	(9.62 - 9.70)	8.21	(8.17 - 8.25)	9.66	(9.62 - 9.70)	8.21	(8.17 - 8.25)	8.21	(8.17 - 8.25)
Endosulfan I	2	0	9.71	(9.67 - 9.75)	8.26	(8.22 - 8.30)	9.70	(9.66 - 9.74)	8.26	(8.22 - 8.30)	8.26	(8.22 - 8.30)
p,p'-DDE	2	0	9.94	(9.86 - 10.02)	8.51	(8.43 - 8.59)	9.94	(9.86 - 10.02)	8.51	(8.43 - 8.59)	8.51	(8.43 - 8.59)
Dieldrin	2	0	10.08	(10.00 - 10.16)	8.66	(8.58 - 8.74)	10.08	(10.00 - 10.16)	8.65	(8.57 - 8.73)	8.65	(8.57 - 8.73)
Endrin	2	0	10.53	(10.49 - 10.57)	9.13	(9.09 - 9.17)	10.52	(10.48 - 10.56)	9.13	(9.09 - 9.17)	9.13	(9.09 - 9.17)
p,p'-DDD	2	0	10.61	(10.53 - 10.69)	9.22	(9.14 - 9.30)	10.61	(10.53 - 10.69)	9.21	(9.13 - 9.29)	9.21	(9.13 - 9.29)
Endosulfan II	2	0	10.74	(10.66 - 10.82)	9.35	(9.27 - 9.43)	10.73	(10.65 - 10.81)	9.35	(9.27 - 9.43)	9.35	(9.27 - 9.43)
p,p'-DDT	2	0	10.97	(10.89 - 11.05)	9.60	(9.52 - 9.68)	10.96	(10.88 - 11.04)	9.60	(9.52 - 9.68)	9.60	(9.52 - 9.68)
Endrin Aldehyde	2	0	11.12	(11.04 - 11.20)	9.76	(9.68 - 9.84)	11.12	(11.04 - 11.20)	9.76	(9.68 - 9.84)	9.76	(9.68 - 9.84)
Endosulfan Sulfate	2	0	11.26	(11.22 - 11.30)	9.91	(9.87 - 9.95)	11.26	(11.22 - 11.30)	9.91	(9.87 - 9.95)	9.91	(9.87 - 9.95)
Methoxychlor	2	0	11.96	(11.92 - 12.00)	10.67	(10.63 - 10.71)	11.96	(11.92 - 12.00)	10.67	(10.63 - 10.71)	10.67	(10.63 - 10.71)
Endrin Ketone	2	0	12.18	(12.10 - 12.26)	10.90	(10.82 - 10.98)	12.18	(12.10 - 12.26)	10.90	(10.82 - 10.98)	10.90	(10.82 - 10.98)
DCB-Surrogate	2	0	13.65	(13.59 - 13.71)	12.47	(12.41 - 12.53)	13.64	(13.58 - 13.70)	12.46	(12.40 - 12.52)	12.46	(12.40 - 12.52)
Chlordane (Technical	2	1										
Chlordane (Technical	2	2										
Chlordane (Technical	2	3										
Toxaphene	2	1	9.82	(9.78 - 9.86)	8.90	(8.86 - 8.94)						
Toxaphene	2	2	10.75	(10.71 - 10.79)	9.16	(9.12 - 9.20)						
Toxaphene	2	3	11.01	(10.97 - 11.05)	9.65	(9.61 - 9.69)						
Toxaphene	2	4	11.72	(11.68 - 11.76)	10.41	(10.37 - 10.45)						
Toxaphene	2	5	11.79	(11.75 - 11.83)	10.48	(10.44 - 10.52)						

Herbicide Data

Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD05999-001
Client Id: SS-1
Data File: 12G18748.D
Analysis Date: 08/20/18 13:40
Date Rec/Extracted: 08/16/18-08/17/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Soil
Initial Vol: 50g
Final Vol: 10ml
Dilution: 1
Solids: 95

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.011	U	93-72-1	Silvex	0.011	U
94-75-7	2,4-D	0.011	U				

Worksheet #: 476800 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2018\GC_12\Data\08-20-18\
Data File : 12G18748.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Aug-18, 13:40:22
Operator : MLC/MS/ZM
Sample : AD05999-001
Misc : S,HERB
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 20 17:37:30 2018
Quant Method : G:\GCDATA\2018\GC_12\MethodQt\12G_HERB0806.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon Aug 06 14:43:44 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
2)Dcaa-Surrogate	8.296	8.184	198.5E6	60045635	809.496	845.963

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_12\Data\08-20-18\
Data File : 12G18748.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Aug-18, 13:40:22
Operator : MLC/MS/ZM
Sample : AD05999-001
Misc : S,HERB
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 20 17:37:30 2018
Quant Method : G:\GCDATA\2018\GC_12\MethodQt\12G_HERB0806.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon Aug 06 14:43:44 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

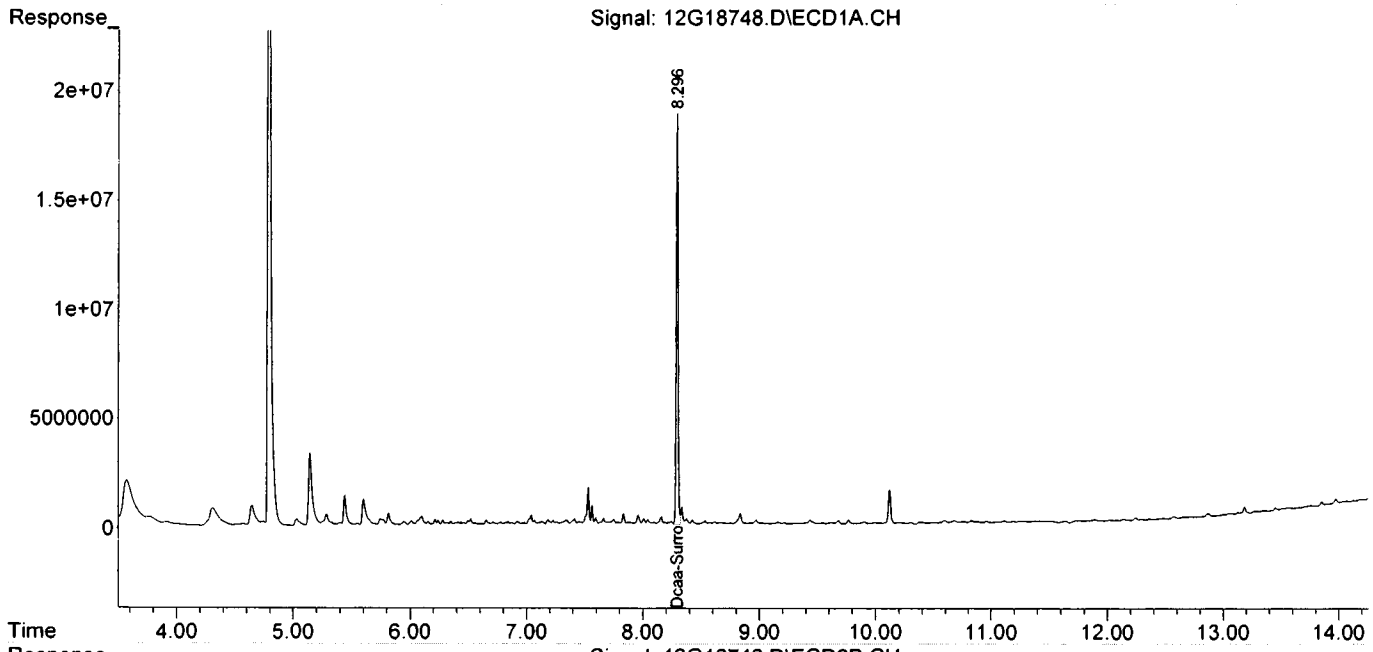

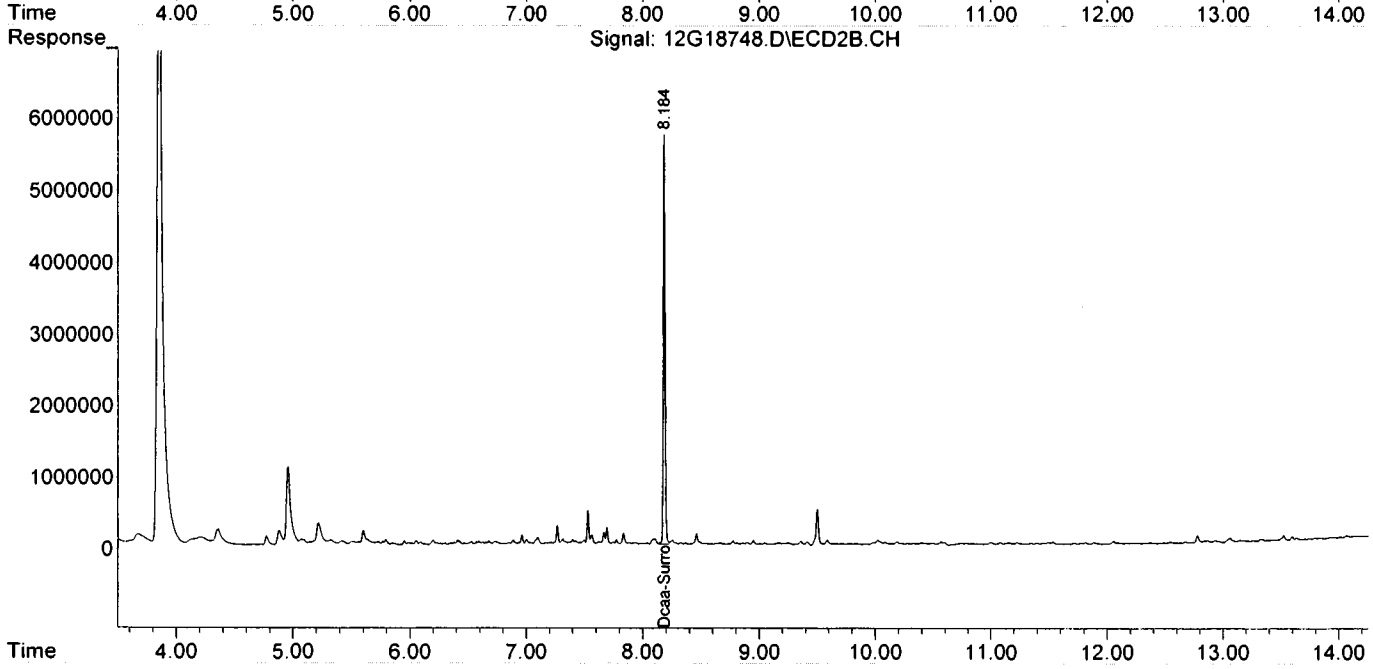

Form1

ORGANICS HERBICIDE REPORT

Sample Number: SMB69832
Client Id:
Data File: 12G18744.D
Analysis Date: 08/20/18 12:22
Date Rec/Extracted: NA-08/17/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Soil
Initial Vol: 50g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.010	U	93-72-1	Silvex	0.010	U
94-75-7	2,4-D	0.010	U				

Worksheet #: 476800

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2018\GC_12\Data\08-20-18\
Data File : 12G18744.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Aug-18, 12:22:53
Operator : MLC/MS/ZM
Sample : SMB69832
Misc : S,HERB
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 20 17:34:58 2018
Quant Method : G:\GCDATA\2018\GC_12\MethodQt\12G_HERB0806.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon Aug 06 14:43:44 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
2)Dcaa-Surrogate	8.308	8.191	168.3E6	52291599	686.276	736.719

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_12\Data\08-20-18\
Data File : 12G18744.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 20-Aug-18, 12:22:53
Operator : MLC/MS/ZM
Sample : SMB69832
Misc : S,HERB
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 20 17:34:58 2018
Quant Method : G:\GCDATA\2018\GC_12\MethodQt\12G_HERB0806.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon Aug 06 14:43:44 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

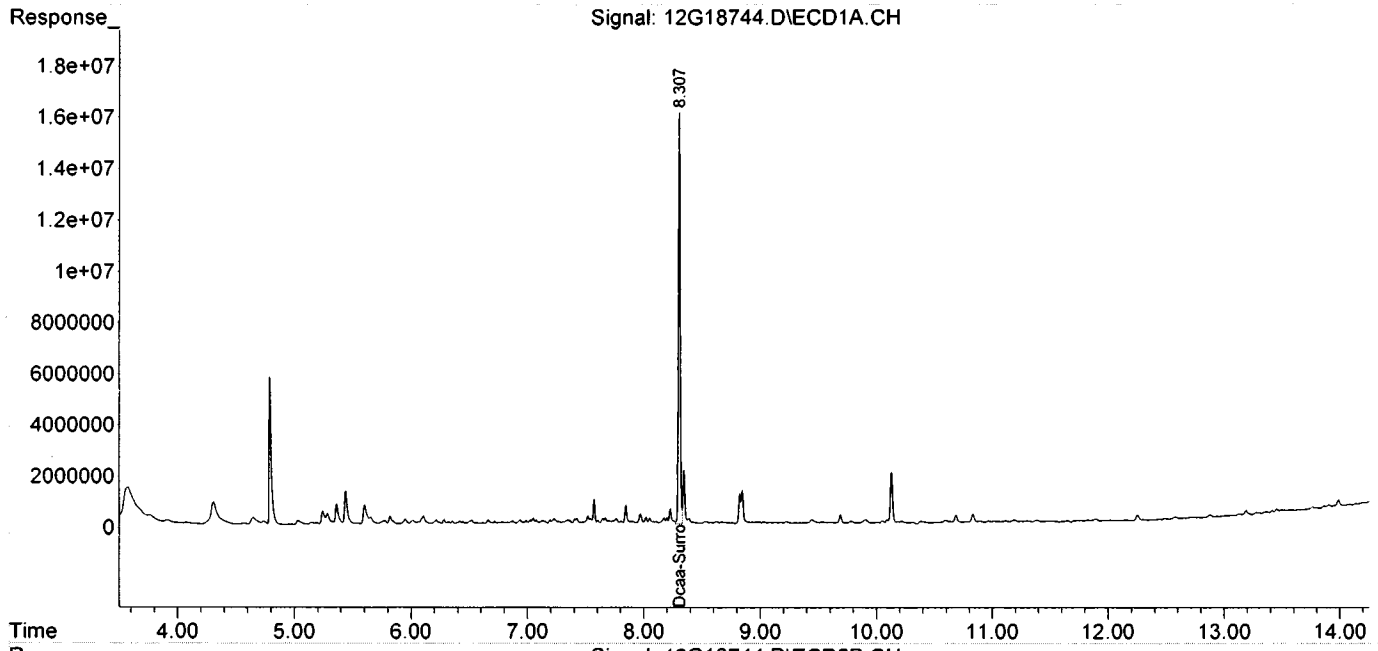

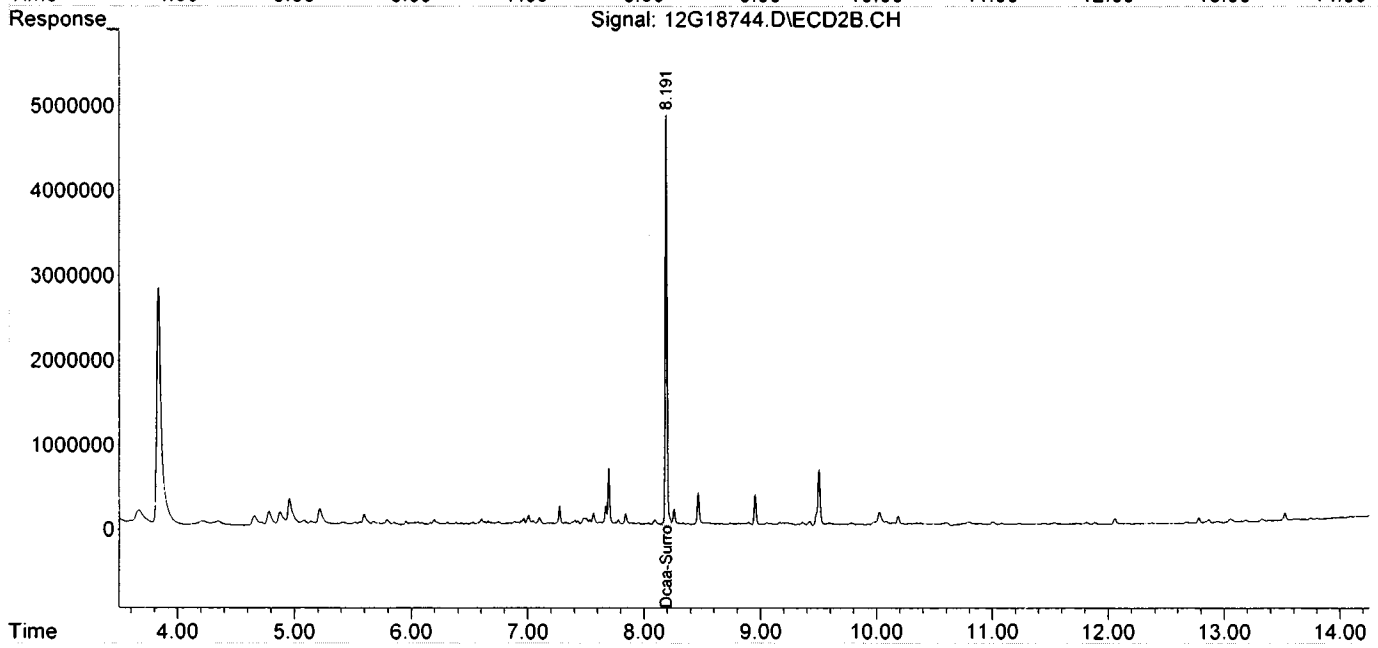

FORM2

Surrogate Recovery Method: EPA 8151A

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
12G18744.D	SMB69832	S	08/20/18 12:22	1		69	74				
12G18748.D	AD05999-001	S	08/20/18 13:40	1		81	85				
12G18745.D	SMB69832(MS)	S	08/20/18 12:42	1		78	90				
12G18746.D	AD05999-001(MS)	S	08/20/18 13:01	1		79	90				
12G18747.D	AD05999-001(MSD)	S	08/20/18 13:20	1		53	61				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8151A

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dcaa-Surrogate	1000	25-138
S2=Dcaa-Surrogate	1000	25-138

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69832

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G18745.D	SMB69832(MS)	8/20/2018 12:42:09 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	303.08	0	400	76	25	130
2,4-D	1	299.9	0	400	75	10	130
Silvex	1	306.28	0	400	77	25	130
2,4,5-T	1	311.6	0	400	78	25	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: SMB69832

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G18746.D	AD05999-001(MS)	8/20/2018 1:01:30 PM
Non Spike(If applicable):	12G18748.D	AD05999-001	8/20/2018 1:40:22 PM
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	317.3	0	400	79	25	130
2,4-D	1	303.58	0	400	76	10	130
Silvex	1	322.46	0	400	81	25	130
2,4,5-T	1	323.11	0	400	81	25	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G18747.D	AD05999-001(MSD)	8/20/2018 1:20:53 PM
Non Spike(If applicable):	12G18748.D	AD05999-001	8/20/2018 1:40:22 PM
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	216.77	0	400	54	25	130
2,4-D	1	209.44	0	400	52	10	130
Silvex	1	217.17	0	400	54	25	130
2,4,5-T	1	217.25	0	400	54	25	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: SMB69832

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G18747.D	AD05999-001(MSD)	8/20/2018 1:20:53 PM
Duplicate(If applicable):	12G18746.D	AD05999-001(MS)	8/20/2018 1:01:30 PM
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Dicamba	1	216.77	317.3	38	40
2,4-D	1	209.44	303.58	37	40
Silvex	1	217.17	322.46	39	40
2,4,5-T	1	217.25	323.11	39	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: SMB69832
Blank Data File: 12G18744.D
Matrix: Soil

Blank Analysis Date: 08/20/18 12:22
Blank Extraction Date: 08/17/18
(If Applicable)
Method: EPA 8151A

Sample Number	Data File	Analysis Date
AD05999-001	12G18748.D	08/20/18 13:40
AD05999-001(MSD	12G18747.D	08/20/18 13:20
AD05999-001(MS)	12G18746.D	08/20/18 13:01
SMB69832(MS)	12G18745.D	08/20/18 12:42

Form 5

Method: EPA 8151A

Instrument: GC_12 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
12G18627.D	200PPB	08/06/18 11:00	Soil					
12G18628.D	CAL HERB@200PPB	08/06/18 11:55	Soil	12G1862	8.3070	0.053	8.1940	0.0073
12G18629.D	CAL HERB@50PPB	08/06/18 12:19	Soil	12G1862	8.3114	0	8.1946	0
12G18630.D	CAL HERB@100PPB	08/06/18 12:38	Soil	12G1862	8.3017	0.1168	8.1864	0.1001
12G18631.D	CAL HERB@400PPB	08/06/18 12:58	Soil	12G1862	8.3021	0.112	8.1868	0.0952
12G18632.D	CAL HERB@500PPB	08/06/18 13:17	Soil	12G1862	8.3049	0.0782	8.1893	0.0647
12G18633.D	CAL HERB@600PPB	08/06/18 13:37	Soil	12G1862	8.3025	0.1071	8.1868	0.0952
12G18634.D	ICV	08/06/18 14:09	Soil	12G1862	8.3072	0.0505	8.1887	0.072
12G18635.D	SMB69715	08/06/18 15:05	Soil	12G1862	8.3102	0.0144	8.1916	0.0366
12G18636.D	SMB69715(MS)	08/06/18 15:24	Soil	12G1862	8.3011	0.124	8.1852	0.1148
12G18637.D	WMB69725	08/06/18 15:44	Aqueous	12G1862	8.2974	0.1686	8.1823	0.1502
12G18638.D	WMB69725(MS)	08/06/18 16:03	Aqueous	12G1862	8.3016	0.118	8.1856	0.1099
12G18639.D	AD05776-002	08/06/18 16:23	Soil	12G1862	8.3032	0.0987	8.1890	0.0684
12G18640.D	AD05758-001(T)	08/06/18 16:43	Aqueous	12G1862	8.3033	0.0975	8.1890	0.0684
12G18641.D	EF-2-V-283958(8/2)	08/06/18 17:02	Aqueous	12G1862	8.2980	0.1614	8.1833	0.138
12G18642.D	AD05737-001(T)(MS)	08/06/18 17:22	Aqueous	12G1862	8.2974	0.1686	8.1817	0.1575
12G18643.D	AD05737-001(T)(MSD)	08/06/18 17:41	Aqueous	12G1862	8.2971	0.1722	8.1824	0.149
12G18644.D	AD05737-001(T)	08/06/18 18:01	Aqueous	12G1862	8.2972	0.171	8.1822	0.1514
12G18645.D	EF-1-V-284733(8/2)	08/06/18 18:21	Aqueous	12G1862	8.2971	0.1722	8.1819	0.1551
12G18646.D	CAL HERB@200PPB	08/06/18 18:40	Aqueous	12G1862	8.2979	0.1626	8.1829	0.1429
12G18647.D	AD05789-002(MS)	08/06/18 19:00	Soil	12G1864	8.2973	0.0072	8.1823	0.0073
12G18648.D	AD05789-002(MSD)	08/06/18 19:20	Soil	12G1864	8.2964	0.0181	8.1820	0.011
12G18649.D	AD05789-002	08/06/18 19:39	Soil	12G1864	8.2968	0.0133	8.1826	0.0037
12G18650.D	AD05789-004	08/06/18 19:59	Soil	12G1864	8.2962	0.0205	8.1821	0.0098
12G18651.D	AD05789-006	08/06/18 20:18	Soil	12G1864	8.2951	0.0337	8.1825	0.0049
12G18652.D	AD05789-008	08/06/18 20:38	Soil	12G1864	8.2973	0.0072	8.1830	0.0012
12G18653.D	AD05789-010	08/06/18 20:58	Soil	12G1864	8.2967	0.0145	8.1822	0.0086
12G18654.D	200PPB	08/06/18 21:17	Soil	12G1864	8.2975	0.0048	8.1822	0.0086
12G18655.D	CAL HERB@200PPB	08/06/18 21:37	Soil	12G1864	8.2977	0.0024	8.1823	0.0073

Drift Compound: Dcaa-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8151A

Instrument: GC_12 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
12G18743.D	CAL HERB@200PPB	08/20/18 11:43	Aqueous	12G1874	8.2927	0	8.1824	0
12G18744.D	SMB69832	08/20/18 12:22	Soil	12G1874	8.3076	0.1795	8.1915	0.1112
12G18745.D	SMB69832(MS)	08/20/18 12:42	Soil	12G1874	8.2956	0.035	8.1823	0.0012
12G18746.D	AD05999-001(MS)	08/20/18 13:01	Soil	12G1874	8.2924	0.0036	8.1796	0.0342
12G18747.D	AD05999-001(MSD)	08/20/18 13:20	Soil	12G1874	8.2930	0.0036	8.1812	0.0147
12G18748.D	AD05999-001	08/20/18 13:40	Soil	12G1874	8.2963	0.0434	8.1843	0.0232
12G18749.D	AD05945-014	08/20/18 13:59	Soil	12G1874	8.2954	0.0326	8.1830	0.0073
12G18750.D	AD05945-015	08/20/18 14:19	Soil	12G1874	8.2936	0.0109	8.1810	0.0171
12G18751.D	AD05965-002	08/20/18 14:38	Soil	12G1874	8.2927	0	8.1810	0.0171
12G18752.D	AD05965-004	08/20/18 14:58	Soil	12G1874	8.2922	0.006	8.1806	0.022
12G18753.D	AD05965-006	08/20/18 15:17	Soil	12G1874	8.2926	0.0012	8.1816	0.0098
12G18754.D	AD05965-008	08/20/18 15:36	Soil	12G1874	8.2925	0.0024	8.1807	0.0208
12G18755.D	AD05965-010	08/20/18 15:56	Soil	12G1874	8.2935	0.0096	8.1822	0.0024
12G18756.D	AD05965-012	08/20/18 16:15	Soil	12G1874	8.2925	0.0024	8.1812	0.0147
12G18757.D	AD06007-002	08/20/18 16:35	Soil	12G1874	8.2955	0.0338	8.1836	0.0147
12G18758.D	AD06007-004	08/20/18 16:54	Soil	12G1874	8.2936	0.0109	8.1817	0.0086
12G18759.D	CAL HERB@200PPB	08/20/18 17:14	Soil	12G1874	8.2942	0.0181	8.1821	0.0037

Drift Compound: Dcaa-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 6
Initial Calibration

Method: EPA 8151A

Instrument: GC_12

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	12G18629.D	CAL HERB@50PPB	08/06/18 12:19	2	12G18630.D	CAL HERB@100PPB	08/06/18 12:38
3	12G18628.D	CAL HERB@200PPB	08/06/18 11:55	4	12G18631.D	CAL HERB@400PPB	08/06/18 12:58
5	12G18632.D	CAL HERB@500PPB	08/06/18 13:17	6	12G18633.D	CAL HERB@600PPB	08/06/18 13:37

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Dalapon	1	0	Avg	31.852	31.217	31.032	31.618	28.180	28.350	----	----	30.4	4.63	0.994	0.997	5.5	50.00	100.0	200.0	400.0	500.0	600.0		
Dcaa-Surrogate	1	0	Avg	22.471	22.512	25.563	27.707	24.273	24.607	----	----	24.5	8.31	0.991	0.995	8.1	250.0	500.0	1000.	2000.	2500.	3000.		
Dicamba	1	0	Avg	82.795	83.019	90.163	94.606	81.955	82.768	----	----	85.9	8.46	0.989	0.995	6.1	50.00	100.0	200.0	400.0	500.0	600.0		
Dichloroprop	1	0	Avg	22.638	22.107	23.006	23.440	20.035	20.003	----	----	21.9	9.03	0.986	0.994	6.9	50.00	100.0	200.0	400.0	500.0	600.0		
2,4-D	1	0	Avg	27.574	27.279	28.818	29.191	25.086	25.029	----	----	27.2	9.33	0.987	0.995	6.6	50.00	100.0	200.0	400.0	500.0	600.0		
Silvex	1	0	Avg	121.62	123.09	137.45	145.07	123.98	126.88	----	----	130	9.92	0.988	0.993	7.3	50.00	100.0	200.0	400.0	500.0	600.0		
2,4,5-T	1	0	Avg	114.61	116.13	130.54	138.37	117.96	119.19	----	----	123	10.31	0.986	0.993	7.7	50.00	100.0	200.0	400.0	500.0	600.0		
2,4-DB	1	0	Avg	18.554	16.253	18.537	17.920	15.270	15.229	----	----	17.0	10.73	0.984	0.994	9.2	50.00	100.0	200.0	400.0	500.0	600.0		
Dinoseb	1	0	Avg	74.135	67.990	83.028	87.647	75.497	74.676	----	----	77.2	11.23	0.985	0.994	9.1	50.00	100.0	200.0	400.0	500.0	600.0		
Picloram	1	0	Avg	142.83	141.55	173.56	187.51	173.15	175.23	----	----	166	12.25	0.996	0.998	11	50.00	100.0	200.0	400.0	500.0	600.0		
Dalapon	2	0	Avg	9.9485	9.2934	9.6218	9.4052	8.4629	8.4248	----	----	9.19	4.41	0.994	0.998	6.8	50.00	100.0	200.0	400.0	500.0	600.0		
Dcaa-Surrogate	2	0	Avg	7.0278	6.8469	7.6809	7.7211	6.6345	6.6760	----	----	7.10	8.19	0.987	0.995	6.9	250.0	500.0	1000.	2000.	2500.	3000.		
Dicamba	2	0	Avg	25.950	25.288	27.762	27.382	23.471	23.373	----	----	25.5	8.38	0.985	0.995	7.3	50.00	100.0	200.0	400.0	500.0	600.0		
Dichloroprop	2	0	Avg	7.3420	6.9789	7.3080	7.0813	5.9973	5.9518	----	----	6.78	8.77	0.983	0.994	9.4	50.00	100.0	200.0	400.0	500.0	600.0		
2,4-D	2	0	Avg	9.0639	8.5318	9.1742	8.8313	7.4514	7.4141	----	----	8.41	9.10	0.982	0.994	9.4	50.00	100.0	200.0	400.0	500.0	600.0		
Silvex	2	0	Avg	38.137	37.496	41.259	40.663	34.594	34.544	----	----	37.8	9.62	0.984	0.994	7.6	50.00	100.0	200.0	400.0	500.0	600.0		
2,4,5-T	2	0	Avg	34.877	34.911	36.486	37.719	32.510	32.507	----	----	34.8	10.04	0.992	0.996	6.0	50.00	100.0	200.0	400.0	500.0	600.0		
2,4-DB	2	0	Avg	5.1090	4.9351	5.3706	5.2595	4.4494	4.4275	----	----	4.93	10.40	0.983	0.994	8.2	50.00	100.0	200.0	400.0	500.0	600.0		
Dinoseb	2	0	Avg	25.817	23.143	26.860	26.719	22.354	22.409	----	----	24.6	10.13	0.981	0.992	8.7	50.00	100.0	200.0	400.0	500.0	600.0		
Picloram	2	0	Avg	44.774	43.374	51.687	51.992	47.064	47.206	----	----	47.7	12.05	0.994	0.997	7.4	50.00	100.0	200.0	400.0	500.0	600.0		

Avg Rsd Col 1: 7.78 Avg Rsd Col 2: 7.77

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

8081617 0167

Form7
Continuing Calibration

Method: EPA 8151A

Data File:				12G18743.D			12G18759.D												
Method:				8151			8151												
Calibration Name:				CAL HERB@200P			CAL HERB@200P												
Calibration Date/Time				08/20/18 11:43			08/20/18 17:14												
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
Dalapon	15	1	0	199.6	200	0.2	206.8	200	3.4									
Dcaa-Surrogate	15	1	0	1072	1000	7.2	1070	1000	7.0									
Dicamba	15	1	0	221.7	200	10.9	218.4	200	9.2									
Dichloroprop	15	1	0	218.3	200	9.2	217.9	200	8.9									
2,4-D	15	1	0	222.5	200	11.2	211.2	200	5.6									
Silvex	15	1	0	220.7	200	10.4	214.1	200	7.0									
2,4,5-T	15	1	0	220.1	200	10.0	214.1	200	7.0									
2,4-DB	15	1	0	216	200	8.0	214.3	200	7.2									
Dinoseb	15	1	0	242.1	200	21.0*	227.9	200	14.0									
Picloram	15	1	0	203.7	200	1.8	207.0	200	3.5									
Average Difference	15	1	0			9.0			7.3									
Dalapon	15	2	0	196.8	200	1.6	198.8	200	0.6									
Dcaa-Surrogate	15	2	0	1082	1000	8.2	1069	1000	6.9									
Dicamba	15	2	0	220.2	200	10.1	213.5	200	6.7									
Dichloroprop	15	2	0	220.4	200	10.2	210	200	5.0									
2,4-D	15	2	0	220.7	200	10.4	207.4	200	3.7									
Silvex	15	2	0	223.7	200	11.8	216.6	200	8.3									
2,4,5-T	15	2	0	208.3	200	4.1	209.8	200	4.9									
2,4-DB	15	2	0	226.8	200	13.4	217.3	200	8.7									
Dinoseb	15	2	0	250	200	25.0*	230.3	200	15.2									
Picloram	15	2	0	209.4	200	4.7	212.3	200	6.2									
Average Difference	15	2	0			10.0			6.6									

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8151A

Data File:			12G18629.D		12G18743.D							
Calibration Name:			CAL HERB@50PPB		CAL HERB@200PPB							
Calibration Date/Time			8/6/2018 12:19:20 PM		8/20/2018 11:43:09 AM							
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
Dalapon	1	0	4.63	(4.59 - 4.67)	4.63	(4.59 - 4.67)						
Dcaa-Surrogate	1	0										
Dicamba	1	0	8.45	(8.41 - 8.49)	8.44	(8.40 - 8.48)						
Dichloroprop	1	0	9.03	(8.99 - 9.07)	9.01	(8.97 - 9.05)						
2,4-D	1	0	9.33	(9.29 - 9.37)	9.32	(9.28 - 9.36)						
Silvex	1	0	9.92	(9.88 - 9.96)	9.91	(9.87 - 9.95)						
2,4,5-T	1	0	10.31	(10.27 - 10.35)	10.30	(10.26 - 10.34)						
2,4-DB	1	0	10.73	(10.69 - 10.77)	10.72	(10.68 - 10.76)						
Dinoseb	1	0	11.23	(11.19 - 11.27)	11.22	(11.18 - 11.26)						
Picloram	1	0	12.25	(12.21 - 12.29)	12.24	(12.20 - 12.28)						
Dalapon	2	0	4.41	(4.37 - 4.45)	4.41	(4.37 - 4.45)						
Dcaa-Surrogate	2	0										
Dicamba	2	0	8.37	(8.33 - 8.41)	8.36	(8.32 - 8.40)						
Dichloroprop	2	0	8.77	(8.73 - 8.81)	8.76	(8.72 - 8.80)						
2,4-D	2	0	9.10	(9.06 - 9.14)	9.09	(9.05 - 9.13)						
Silvex	2	0	9.61	(9.57 - 9.65)	9.61	(9.57 - 9.65)						
2,4,5-T	2	0	10.04	(10.00 - 10.08)	10.03	(9.99 - 10.07)						
2,4-DB	2	0	10.40	(10.36 - 10.44)	10.40	(10.36 - 10.44)						
Dinoseb	2	0	10.13	(10.09 - 10.17)	10.12	(10.08 - 10.16)						
Picloram	2	0	12.05	(12.01 - 12.09)	12.05	(12.01 - 12.09)						

Metal Data

Form1
Inorganic Analysis Data Sheet

Sample ID:	AD05999-001	% Solid:	95	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SS-1	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	8/16/2018	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	210	610	1	1	100	08/24/18	70604	S22993A2	16	P	PEICPRAD2A
7440-39-3	Barium	11	ND	1	1	100	08/24/18	70604	S22993A3	16	P	PEICP3A
7440-70-2	Calcium	1100	1100	1	1	100	08/24/18	70604	S22993A2	16	P	PEICPRAD2A
7440-47-3	Chromium	5.3	ND	1	1	100	08/24/18	70604	S22993A3	16	P	PEICP3A
7440-48-4	Cobalt	2.6	ND	1	1	100	08/24/18	70604	S22993A3	16	P	PEICP3A
7440-50-8	Copper	5.3	ND	1	1	100	08/24/18	70604	S22993A3	16	P	PEICP3A
7439-89-6	Iron	210	1400	1	1	100	08/24/18	70604	S22993A2	16	P	PEICPRAD2A
7439-92-1	Lead	5.3	ND	1	1	100	08/24/18	70604	S22993A3	16	P	PEICP3A
7439-95-4	Magnesium	530	730	1	1	100	08/24/18	70604	S22993A2	16	P	PEICPRAD2A
7439-96-5	Manganese	11	18	1	1	100	08/24/18	70604	S22993A3	16	P	PEICP3A
7439-97-6	Mercury	0.088	ND	1	0.15	25	08/23/18	70604	H22993S	16	CV	HGCV1A
7440-02-0	Nickel	5.3	ND	1	1	100	08/24/18	70604	S22993A3	16	P	PEICP3A
7440-09-7	Potassium	530	ND	1	1	100	08/24/18	70604	S22993A2	16	P	PEICPRAD2A
7440-23-5	Sodium	260	ND	1	1	100	08/24/18	70604	S22993A2	16	P	PEICPRAD2A
7440-62-2	Vanadium	11	ND	1	1	100	08/24/18	70604	S22993A3	16	P	PEICP3A
7440-66-6	Zinc	11	ND	1	1	100	08/24/18	70604	S22993A3	16	P	PEICP3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AD05999-001	% Solid:	95	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SS-1	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	8/16/2018	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.84	ND	1	0.5	100	08/24/18	706052318BNEW		55	MS	MS3_7700SWA
7440-38-2	Arsenic	0.21	0.39	1	0.5	100	08/24/18	706052318BNEW		55	MS	MS3_7700SWA
7440-41-7	Beryllium	0.21	ND	1	0.5	100	08/24/18	706052318BNEW		55	MS	MS3_7700SWA
7440-43-9	Cadmium	0.42	ND	1	0.5	100	08/24/18	706052318BNEW		55	MS	MS3_7700SWA
7782-49-2	Selenium	2.1	ND	1	0.5	100	08/24/18	706052318BNEW		55	MS	MS3_7700SWA
7440-22-4	Silver	0.21	ND	1	0.5	100	08/24/18	706052318BNEW		55	MS	MS3_7700SWA
7440-28-0	Thallium	0.42	ND	1	0.5	100	08/24/18	706052318BNEW		55	MS	MS3_7700SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 70604 (100) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 70604 (100) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	0.5	50	08/24/18	70604	S22993A2	13	P	PEICPRAD2A
7440-36-0	Antimony	4.0	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-39-3	Barium	10	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-41-7	Beryllium	1.2	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-70-2	Calcium	1000	ND	1	0.5	50	08/24/18	70604	S22993A2	13	P	PEICPRAD2A
7440-47-3	Chromium	5.0	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-48-4	Cobalt	2.5	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-50-8	Copper	5.0	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7439-89-6	Iron	200	ND	1	0.5	50	08/24/18	70604	S22993A2	13	P	PEICPRAD2A
7439-92-1	Lead	5.0	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7439-95-4	Magnesium	500	ND	1	0.5	50	08/24/18	70604	S22993A2	13	P	PEICPRAD2A
7439-96-5	Manganese	10	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7439-98-7	Molybdenum	2.5	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-02-0	Nickel	5.0	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-09-7	Potassium	500	ND	1	0.5	50	08/24/18	70604	S22993A2	13	P	PEICPRAD2A
7440-23-5	Sodium	250	ND	1	0.5	50	08/24/18	70604	S22993A2	13	P	PEICPRAD2A
7440-28-0	Thallium	5.0	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-31-5	Tin	20	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-32-6	Titanium	10	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-62-2	Vanadium	10	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A
7440-66-6	Zinc	10	ND	1	0.5	50	08/24/18	70604	S22993A3	13	P	PEICP3A

Comments:

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 70605 (100) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 70605 (100) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.80	ND	1	0.5	100	08/24/18	70605	2318BNEW	52	MS	MS3_7700SWA
7440-38-2	Arsenic	0.20	ND	1	0.5	100	08/24/18	70605	2318BNEW	52	MS	MS3_7700SWA
7440-41-7	Beryllium	0.20	ND	1	0.5	100	08/24/18	70605	2318BNEW	52	MS	MS3_7700SWA
7440-43-9	Cadmium	0.40	ND	1	0.5	100	08/24/18	70605	2318BNEW	52	MS	MS3_7700SWA
7782-49-2	Selenium	2.0	ND	1	0.5	100	08/24/18	70605	2318BNEW	52	MS	MS3_7700SWA
7440-22-4	Silver	0.20	ND	1	0.5	100	08/24/18	70605	2318BNEW	52	MS	MS3_7700SWA
7440-28-0	Thallium	0.40	ND	1	0.5	100	08/24/18	70605	2318BNEW	52	MS	MS3_7700SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 70604 (167) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 70604 (167) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.083	ND	1	0.15	25	08/23/18	70604	H22993S	11	CV	HGCV1A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM 2
(ICV/CCV Summary)

Date Analyzed: 08/23/18
Data File: S082318BNEW
Prep Batch: 70605
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-285828-8	Rec	CCV V-285832-16	Rec	CCV V-285832-28	Rec	CCV V-285832-40	Rec	CCV V-285832-50	Rec	CCV V-285832-62	Rec	CCV V-285832-74	Rec	CCV V-285832-81	Rec
Antimony	50/50	50.57300	101	50.94500	102	50.83500	102	50.81700	102	51.19200	102	52.43800	105	50.27900	101	49.55800	99
Arsenic	50/50	52.05600	104	50.93700	102	50.84300	102	51.17200	102	50.23700	100	50.75300	102	45.68100	91	49.99300	100
Beryllium	50/50	52.04800	104	50.30700	101	49.96900	100	49.39300	99	50.32200	101	52.34600	105	49.53900	99	47.51800	95
Cadmium	50/50	52.54700	105	50.71600	101	51.08700	102	50.90600	102	51.37300	103	52.80200	106	50.68000	101	50.16200	100
Selenium	50/250	52.43100	105	254.15700	102	256.49700	103	256.11100	102	252.35700	101	252.94700	101	229.81500	92	249.59500	100
Silver	10/50	10.21700	102	50.87700	102	51.47000	103	51.22900	102	51.69100	103	53.01700	106	51.28600	103	50.44600	101
Thallium	50/50	52.67100	105	52.34400	105	52.39400	105	52.27000	105	53.39900	107	54.40400	109	52.77000	106	52.05400	104

Notes:
a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits:
ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 08/23/18
Data File: S082318BNEW
Prep Batch: ~~70615~~ 70605 CB 9/6/18
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-285833	Recovery	Low Limit	High Limit		LRS Spike Amount	LRS V-285831	Recovery	Low Limit	High Limit	
Copper	10	10.308	103	80	120		500	498.893	100	90	110	
Sodium	500	492.599	99	80	120		50000	52427.078	105	90	110	
Magnesium	500	523.545	105	80	120		50000	51658.191	103	90	110	
Aluminum	500	511.608	102	80	120		15000	15283.207	102	90	110	
Potassium	500	516.807	103	80	120		50000	51603.186	103	90	110	
Calcium	500	510.225	102	80	120		50000	53014.017	106	90	110	
Vanadium	1	1.036	104	80	120		500	524.446	105	90	110	
Chromium	2	2.078	104	80	120		500	512.497	102	90	110	
Manganese	6	6.128	102	80	120		500	511.128	102	90	110	
Iron	500	510.105	102	80	120		50000	51019.799	102	90	110	
Beryllium	1	1.045	104	80	120		500	527.561	106	90	110	
Nickel	3	3.153	105	80	120		500	498.446	100	90	110	
Lead	2	2.040	102	80	120		500	504.137	101	90	110	
Zinc	20	20.029	100	80	120		500	485.204	97	90	110	
Arsenic	1	1.046	105	80	120		500	539.674	108	90	110	
Selenium	10	10.497	105	80	120		2500	2613.705	105	90	110	
Molybdenum	1	1.037	104	80	120		500	549.661	110	90	110	
Silver	1	1.018	102	80	120		500	514.498	103	90	110	
Cadmium	2	1.972	99	80	120		500	524.703	105	90	110	
Antimony	4	4.226	106	80	120		500	537.369	107	90	110	
Barium	5	5.050	101	80	120		500	525.984	105	90	110	
Thallium	2	2.029	101	80	120		500	506.060	101	90	110	
Cobalt	2	2.023	101	80	120		500	501.744	100	90	110	

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 08/24/18
Data File: S22993A2
Prep Batch: 70604
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-282698-5	Rec	CCV V-282698-11	Rec	CCV V-282698-22	Rec	CCV V-282698-31	Rec	CCV V-282698-41	Rec		Rec		Rec		Rec
Aluminum	5/5	4.95850	99	5.05266	101	5.00161	100	5.04582	101	5.00360	100						
Calcium	50/50	50.61330	101	51.21670	102	51.49600	103	51.45760	103	51.07640	102						
Iron	5/5	4.77135	95	4.83630	97	4.84372	97	4.85921	97	4.86034	97						
Magnesium	50/50	51.33300	103	52.04960	104	51.79800	104	51.73240	103	51.78590	104						
Potassium	50/50	49.54330	99	51.27680	103	49.90550	100	49.27250	99	48.43290	97						
Sodium	50/50	50.64260	101	51.80820	104	50.49080	101	50.07060	100	49.46380	99						

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 08/24/18
Data File: S22993A2
Prep Batch: 70604
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-281815	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-283372	Recovery	Low Limit	High Limit
Manganese	0.1	0.100195	100	80	120	10	9.56245	96	90	110
Aluminum	2.0	2.05076	103	80	120	500	491.366	98	90	110
Boron	0.2	0.214979	107	80	120	5	4.41883	88 a	90	110
Barium	0.1	0.101676	102	80	120	20	18.8298	94	90	110
Calcium	10	10.2347	102	80	120	500	470.454	94	90	110
Copper	0.05	0.0461992	92	80	120	10	9.81311	98	90	110
Iron	2.0	1.96229	98	80	120	400	393.515	98	90	110
Silicon	0.1	0.113837	114	80	120	25	24.3027	97	90	110
Magnesium	5.0	5.17999	104	80	120	500	462.340	92	90	110
Zinc	0.1	0.101608	102	80	120	10	9.43071	94	90	110
Molybdenum	0.025	0.0201297	81	80	120	20	18.6733	93	90	110
Sodium	2.5	2.72891	109	80	120	1000	962.600	96	90	110
Nickel	0.05	0.0501826	100	80	120	20	18.7575	94	90	110
Selenium	0.05	0.0566964	113	80	120	20	20.5930	103	90	110
Tin	0.2	0.211872	106	80	120	10	9.15185	92	90	110
Titanium	0.1	0.101992	102	80	120	10	9.70859	97	90	110
Vanadium	0.1	0.100207	100	80	120	20	19.3579	97	90	110
Potassium	5.0	5.76682	115	80	120	500	525.860	105	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 08/24/18
Data File: S22993A3
Prep Batch: 70604
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-285444-5	Rec	CCV V-285444-11	Rec	CCV V-285444-22	Rec	CCV V-285444-33	Rec	CCV V-285444-45	Rec	CCV V-285444-51	Rec		Rec		Rec
Barium	.5/.5	0.49085	98	0.46607	93	0.48695	97	0.45620	91	0.45254	91	0.44736	89 c				
Chromium	.5/.5	0.50078	100	0.47784	96	0.49944	100	0.47034	94	0.47173	94	0.46882	94				
Cobalt	.5/.5	0.51476	103	0.48904	98	0.51505	103	0.48283	97	0.47702	95	0.47574	95				
Copper	.5/.5	0.51091	102	0.48356	97	0.51119	102	0.48518	97	0.49518	99	0.49192	98				
Lead	.5/.5	0.49799	100	0.47461	95	0.49635	99	0.46654	93	0.46354	93	0.46104	92				
Manganese	.5/.5	0.49333	99	0.46982	94	0.48974	98	0.46208	92	0.46310	93	0.45805	92				
Nickel	.5/.5	0.51795	104	0.49322	99	0.51896	104	0.48610	97	0.48117	96	0.48368	97				
Vanadium	.5/.5	0.51046	102	0.48522	97	0.50722	101	0.47776	96	0.48081	96	0.47960	96				
Zinc	.5/.5	0.50954	102	0.47820	96	0.50737	101	0.47467	95	0.46314	93	0.46551	93				

Notes:
a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits:
ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 08/24/18
Data File: S22993A3
Prep Batch: 70604
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-285929	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-285664	Recovery	Low Limit	High Limit
Magnesium	5.0	4.98051	100	80	120	500	490.902	98	90	110
Silver	0.015	0.0151451	101	80	120	0.8	0.812244	102	90	110
Aluminum	2.0	1.86055	93	80	120	500	524.251	105	90	110
Arsenic	0.04	0.0382359	96	80	120	20	20.6894	103	90	110
Boron	0.2	0.198210	99	80	120	5	3.87760	78 a	90	110
Barium	0.1	0.0934684	93	80	120	20	19.6128	98	90	110
Beryllium	0.012	0.0125613	105	80	120	2	1.89962	95	90	110
Calcium	10	9.55008	96	80	120	500	476.159	95	90	110
Cadmium	0.012	0.0080298	67 a	80	120	10	10.2785	103	90	110
Cobalt	0.025	0.0215498	86	80	120	20	19.0708	95	90	110
Chromium	0.05	0.0489980	98	80	120	20	18.9390	95	90	110
Copper	0.05	0.0573797	115	80	120	10	10.3090	103	90	110
Silicon	0.1	0.100410	100	80	120	25	22.0027	88 a	90	110
Potassium	NA	8.02727		80	120	500	4323.92	865 a	90	110
Zinc	0.1	0.0889962	89	80	120	10	9.37291	94	90	110
Manganese	0.1	0.0954599	95	80	120	10	9.51482	95	90	110
Molybdenum	0.025	0.0258050	103	80	120	20	18.7704	94	90	110
Sodium	NA	2.97972		80	120	1000	1424.84	142 a	90	110
Nickel	0.05	0.0439150	88	80	120	20	18.3832	92	90	110
Lead	0.05	0.0512586	103	80	120	20	18.9954	95	90	110
Antimony	0.04	0.0390740	98	80	120	20	20.1360	101	90	110
Selenium	0.05	0.0457948	92	80	120	20	19.6541	98	90	110
Tin	0.2	0.198335	99	80	120	10	10.2737	103	90	110
Titanium	0.1	0.0962652	96	80	120	10	9.71554	97	90	110
Thallium	0.05	0.0433586	87	80	120	20	18.3585	92	90	110
Vanadium	0.1	0.0951385	95	80	120	20	18.9789	95	90	110
Iron	2.0	1.89885	95	80	120	400	390.358	98	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 08/23/18
Data File: H22993S
Prep Batch: 70604
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV1A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV (2)-9	Rec	CCV-21	Rec	CCV-33	Rec	CCV-37	Rec	Rec	Rec	Rec	Rec
Mercury	20/10	20.40030	102	10.22799	102	10.27335	103	10.17527	102				

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 08/23/18
Data File: S082318BNEW
Prep Batch: 70605
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-285829-10	CCB V-285829-17	CCB V-285829-29	CCB V-285829-41	CCB V-285829-51	CCB V-285829-63	CCB V-285829-75	CCB V-285829-82
Antimony	2 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Arsenic	.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Beryllium	.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cadmium	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Selenium	5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Silver	.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Thallium	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U

Analyte	MB 70605 (100)-52
Antimony	400 U
Arsenic	100 U
Beryllium	100 U
Cadmium	200 U
Selenium	1000 U
Silver	100 U
Thallium	200 U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 08/24/18
Data File: S22993A2
Prep Batch: 70604
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-282340-6	CCB V-282340-12	CCB V-282340-23	CCB V-282340-32	CCB V-282340-42	MB 70604 (100)-13
Aluminum	1 U	2 U	2 U	2 U	2 U	100 U
Calcium	5 U	10 U	10 U	10 U	10 U	500 U
Iron	1 U	2 U	2 U	2 U	2 U	100 U
Magnesium	2.5 U	5 U	5 U	5 U	5 U	250 U
Potassium	2.5 U	5 U	5 U	5 U	5 U	250 U
Sodium	1.25 U	2.5 U	2.5 U	2.5 U	2.5 U	125 U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 08/24/18
Data File: S22993A3
Prep Batch: 70604
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-283171-6	CCB V-283171-12	CCB V-283171-23	CCB V-283171-34	CCB V-283171-46	CCB V-283171-52	MB 70604 (100)-13
Barium	.05 U	.1 U	.1 U	.1 U	.1 U	.1 U	5 U
Chromium	.025 U	.05 U	.05 U	.05 U	.05 U	.05 U	2.5 U
Cobalt	.0125 U	.025 U	.025 U	.025 U	.025 U	.025 U	1.3 U
Copper	.025 U	.05 U	.05 U	.05 U	.05 U	.05 U	2.5 U
Lead	.025 U	.05 U	.05 U	.05 U	.05 U	.05 U	2.5 U
Manganese	.05 U	.1 U	.1 U	.1 U	.1 U	.1 U	5 U
Nickel	.025 U	.05 U	.05 U	.05 U	.05 U	.05 U	2.5 U
Vanadium	.05 U	.1 U	.1 U	.1 U	.1 U	.1 U	5 U
Zinc	.05 U	.1 U	.1 U	.1 U	.1 U	.1 U	5 U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 08/23/18
Data File: H22993S
Prep Batch: 70604
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV1A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB-10	CCB-22	CCB-34	CCB-38	MB 70604 (167)-11		
Mercury	.5 U	.5 U	.5 U	.5 U	83 U		

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 08/23/18
Data File: S082318BNEW
Prep Batch: 70605
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-285830-13	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	50000	48817.92	98							
Antimony	0	U								
Arsenic	0	U								
Beryllium	0	U								
Cadmium	0	U								
Calcium	150000	153896.6	103							
Iron	125000	124469.4	100							
Magnesium	50000	49508.79	99							
Selenium	0	U								
Silver	0	U								
Thallium	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 08/24/18
Data File: S22993A2
Prep Batch: 70604
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-282430-10	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	500	499.947	100							
Calcium	500	494.852	99							
Iron	200	196.229	98							
Magnesium	500	496.902	99							
Sodium	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 08/24/18
Data File: S22993A3
Prep Batch: 70604
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-285079-10	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	500	484.78	97							
Barium	0	U								
Calcium	500	466.513	93							
Chromium	0	U								
Cobalt	0	U								
Copper	0	U								
Iron	200	184.355	92							
Lead	0	U								
Magnesium	500	494.143	99							
Manganese	0	U								
Nickel	0	U								
Vanadium	0	U								
Zinc	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 70604

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 70604

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	70604	1	S22993A2	15	75.5644	87.2	87		52	148
Barium	70604	1	S22993A3	15	1.6612	1.83	91		82	119
Calcium	70604	1	S22993A2	15	43.3925	46.0	94		81	119
Chromium	70604	1	S22993A3	15	0.6083	0.649	94		81	119
Cobalt	70604	1	S22993A3	15	0.4362	0.450	97		84	116
Copper	70604	1	S22993A3	15	1.0876	1.13	96		83	117
Iron	70604	1	S22993A2	15	136.6090	136	100		59	141
Lead	70604	1	S22993A3	15	1.5272	1.61	95		81	119
Magnesium	70604	1	S22993A2	15	22.0593	23.1	95		76	124
Manganese	70604	1	S22993A3	15	1.9131	2.19	87		82	119
Mercury	70604	5	H22993S	15	14.7642	70.8	104		70	130
Nickel	70604	1	S22993A3	15	1.3989	1.47	95		82	118
Potassium	70604	1	S22993A2	15	19.3101	20.3	95		70	130
Sodium	70604	1	S22993A2	15	25.1531	24.3	104		73	126
Vanadium	70604	1	S22993A3	15	1.1205	1.25	90		78	122
Zinc	70604	1	S22993A3	15	1.0983	1.21	91		80	119

TxtQcType: LCS Matrix: SOIL SampleID: LCS 70604

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	70604	1	S22993A2	14	73.6207	87.2	84		52	148
Barium	70604	1	S22993A3	14	1.6408	1.83	90		82	119
Calcium	70604	1	S22993A2	14	41.3278	46.0	90		81	119
Chromium	70604	1	S22993A3	14	0.5894	0.649	91		81	119
Cobalt	70604	1	S22993A3	14	0.4302	0.450	96		84	116
Copper	70604	1	S22993A3	14	1.0683	1.13	95		83	117
Iron	70604	1	S22993A2	14	133.8560	136	98		59	141
Lead	70604	1	S22993A3	14	1.5028	1.61	93		81	119
Magnesium	70604	1	S22993A2	14	21.3796	23.1	93		76	124
Manganese	70604	1	S22993A3	14	1.8916	2.19	86		82	119
Mercury	70604	5	H22993S	14	13.9133	70.8	98		70	130
Nickel	70604	1	S22993A3	14	1.3779	1.47	94		82	118
Potassium	70604	1	S22993A2	14	19.2020	20.3	95		70	130
Sodium	70604	1	S22993A2	14	24.0957	24.3	99		73	126
Vanadium	70604	1	S22993A3	14	1.1018	1.25	88		78	122
Zinc	70604	1	S22993A3	14	1.0964	1.21	91		80	119

TxtQcType: MSD Matrix: SOIL SampleID: AD05999-001

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	70604	1	S22993A2	19	S22993A2	16	12.5238	5.7971	5.0	135	a	75	125
Barium	70604	1	S22993A3	19	S22993A3	16	0.4984	0.1U	0.5	100		75	125
Calcium	70604	1	S22993A2	19	S22993A2	16	50.5624	10.1886	50	81		75	125
Chromium	70604	1	S22993A3	19	S22993A3	16	0.4920	0.05U	0.5	98		75	125
Cobalt	70604	1	S22993A3	19	S22993A3	16	0.4885	0.025U	0.5	98		75	125
Copper	70604	1	S22993A3	19	S22993A3	16	0.4985	0.05U	0.5	100		75	125
Iron	70604	1	S22993A2	19	S22993A2	16	24.6525	13.3407	5.0	226	a	75	125
Lead	70604	1	S22993A3	19	S22993A3	16	0.4794	0.05U	0.5	96		75	125
Magnesium	70604	1	S22993A2	19	S22993A2	16	51.2276	6.9691	50	89		75	125
Manganese	70604	1	S22993A3	19	S22993A3	16	0.7375	0.1736	0.5	113		75	125
Mercury	70604	1	H22993S	19	H22993S	16	10.2438	.5U	10	102		75	125
Nickel	70604	1	S22993A3	19	S22993A3	16	0.4961	0.05U	0.5	99		75	125
Potassium	70604	1	S22993A2	19	S22993A2	16	48.5644	5U	50	97		75	125
Sodium	70604	1	S22993A2	19	S22993A2	16	48.9376	2.5U	50	98		75	125
Vanadium	70604	1	S22993A3	19	S22993A3	16	0.5202	0.1U	0.5	104		75	125
Zinc	70604	1	S22993A3	19	S22993A3	16	0.5153	0.1U	0.5	103		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 70604

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MS Matrix: SOIL SampleID: AD05999-001

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	70604	1	S22993A2	18	S22993A2	16	10.9998	5.7971	5.000	104		75	125
Barium	70604	1	S22993A3	18	S22993A3	16	0.4997	0.1U	0.5	100		75	125
Calcium	70604	1	S22993A2	18	S22993A2	16	50.6709	10.1886	50.000	81		75	125
Chromium	70604	1	S22993A3	18	S22993A3	16	0.5068	0.05U	0.5	101		75	125
Cobalt	70604	1	S22993A3	18	S22993A3	16	0.4906	0.025U	0.5	98		75	125
Copper	70604	1	S22993A3	18	S22993A3	16	0.5084	0.05U	0.5	102		75	125
Iron	70604	1	S22993A2	18	S22993A2	16	21.0229	13.3407	5.000	154	a	75	125
Lead	70604	1	S22993A3	18	S22993A3	16	0.4738	0.05U	0.5	95		75	125
Magnesium	70604	1	S22993A2	18	S22993A2	16	51.3202	6.9691	50.000	89		75	125
Manganese	70604	1	S22993A3	18	S22993A3	16	0.6576	0.1736	0.5	97		75	125
Mercury	70604	1	H22993S	18	H22993S	16	10.3985	.5U	10	104		75	125
Nickel	70604	1	S22993A3	18	S22993A3	16	0.4978	0.05U	0.5	100		75	125
Potassium	70604	1	S22993A2	18	S22993A2	16	49.3918	5U	50.00	99		75	125
Sodium	70604	1	S22993A2	18	S22993A2	16	49.8599	2.5U	50.00	100		75	125
Vanadium	70604	1	S22993A3	18	S22993A3	16	0.5156	0.1U	0.5	103		75	125
Zinc	70604	1	S22993A3	18	S22993A3	16	0.4963	0.1U	0.5	99		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 70604

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD05999-001

Analyte	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	1	S22993A2	20	S22993A2	16	10.8209	5.7971	5.0	100		75	125
Barium	1	S22993A3	20	S22993A3	16	0.5339	0.1U	0.50	107		75	125
Calcium	1	S22993A2	20	S22993A2	16	61.6854	10.1886	50	103		75	125
Chromium	1	S22993A3	20	S22993A3	16	0.5305	0.05U	0.50	106		75	125
Cobalt	1	S22993A3	20	S22993A3	16	0.5243	0.025U	0.50	105		75	125
Copper	1	S22993A3	20	S22993A3	16	0.5285	0.05U	0.50	106		75	125
Iron	1	S22993A2	20	S22993A2	16	18.1878	13.3407	5.0	97		75	125
Lead	1	S22993A3	20	S22993A3	16	0.5088	0.05U	0.50	102		75	125
Magnesium	1	S22993A2	20	S22993A2	16	57.8714	6.9691	50	102		75	125
Manganese	1	S22993A3	20	S22993A3	16	0.6765	0.1736	0.50	101		75	125
Nickel	1	S22993A3	20	S22993A3	16	0.5348	0.05U	0.50	107		75	125
Potassium	1	S22993A2	20	S22993A2	16	52.6585	5U	50	105		75	125
Sodium	1	S22993A2	20	S22993A2	16	52.1080	2.5U	50	104		75	125
Vanadium	1	S22993A3	20	S22993A3	16	0.5469	0.1U	0.50	109		75	125
Zinc	1	S22993A3	20	S22993A3	16	0.5338	0.1U	0.50	107		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 70605

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 70605

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	70605	1	S082318B	54	24.3010	94.1	26		0.021	206
Arsenic	70605	1	S082318B	54	61.1710	58.5	105		83	117
Beryllium	70605	1	S082318B	54	59.6850	59.7	100		83	118
Cadmium	70605	1	S082318B	54	269.0190	249	108		82	118
Selenium	70605	1	S082318B	54	155.0720	145	107		78	121
Silver	70605	1	S082318B	54	55.2150	51.0	108		79	121
Thallium	70605	1	S082318B	54	203.0550	188	108		80	120

TxtQcType: LCS Matrix: SOIL SampleID: LCS 70605

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	70605	1	S082318B	53	24.5290	94.1	26		0.021	206
Arsenic	70605	1	S082318B	53	60.0520	58.5	103		83	117
Beryllium	70605	1	S082318B	53	56.7630	59.7	95		83	118
Cadmium	70605	1	S082318B	53	263.1360	249	106		82	118
Selenium	70605	1	S082318B	53	150.6230	145	104		78	121
Silver	70605	1	S082318B	53	54.1690	51.0	106		79	121
Thallium	70605	1	S082318B	53	203.4530	188	108		80	120

TxtQcType: MSD Matrix: SOIL SampleID: AD05999-001

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	70605	1	S082318B	58	S082318B	55	202.0970	4U	250	81		75	125
Arsenic	70605	1	S082318B	58	S082318B	55	213.3350	1.8490	250	85		75	125
Beryllium	70605	1	S082318B	58	S082318B	55	199.2510	1U	250	80		75	125
Cadmium	70605	1	S082318B	58	S082318B	55	215.1880	2U	250	86		75	125
Selenium	70605	1	S082318B	58	S082318B	55	212.4530	10U	250	85		75	125
Silver	70605	1	S082318B	58	S082318B	55	37.2330	1U	50	74	a	75	125
Thallium	70605	1	S082318B	58	S082318B	55	215.2220	2U	250	86		75	125

TxtQcType: MS Matrix: SOIL SampleID: AD05999-001

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	70605	1	S082318B	57	S082318B	55	182.2480	4U	250	73	a	75	125
Arsenic	70605	1	S082318B	57	S082318B	55	205.4420	1.8490	250	81		75	125
Beryllium	70605	1	S082318B	57	S082318B	55	185.5830	1U	250	74	a	75	125
Cadmium	70605	1	S082318B	57	S082318B	55	209.1600	2U	250	84		75	125
Selenium	70605	1	S082318B	57	S082318B	55	202.4520	10U	250	81		75	125
Silver	70605	1	S082318B	57	S082318B	55	37.0480	1U	50	74	a	75	125
Thallium	70605	1	S082318B	57	S082318B	55	207.9690	2U	250	83		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 70605

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AD05999-001

Analyte	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	1	S082318B	59	S082318B	55	50.3900	4U	50	101		75	125
Arsenic	1	S082318B	59	S082318B	55	51.9980	1.8490	50	100		75	125
Beryllium	1	S082318B	59	S082318B	55	45.8400	1U	50	92		75	125
Cadmium	1	S082318B	59	S082318B	55	49.7360	2U	50	99		75	125
Selenium	1	S082318B	59	S082318B	55	246.6980	10U	250	99		75	125
Silver	1	S082318B	59	S082318B	55	50.6190	1U	50	101		75	125
Thallium	1	S082318B	59	S082318B	55	51.3450	2U	50	103		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 70604

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 70604

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Aluminum	70604	S22993A2	15	S22993A2	14	75.5644	73.6207	2.6		20
Barium	70604	S22993A3	15	S22993A3	14	1.6612	1.6408	1.2		20
Calcium	70604	S22993A2	15	S22993A2	14	43.3925	41.3278	4.9		20
Chromium	70604	S22993A3	15	S22993A3	14	0.6083	0.5894	3.1		20
Cobalt	70604	S22993A3	15	S22993A3	14	0.4362	0.4302	1.4		20
Copper	70604	S22993A3	15	S22993A3	14	1.0876	1.0683	1.8		20
Iron	70604	S22993A2	15	S22993A2	14	136.6090	133.8560	2		20
Lead	70604	S22993A3	15	S22993A3	14	1.5272	1.5028	1.6		20
Magnesium	70604	S22993A2	15	S22993A2	14	22.0593	21.3796	3.1		20
Manganese	70604	S22993A3	15	S22993A3	14	1.9131	1.8916	1.1		20
Mercury	70604	H22993S	15	H22993S	14	14.7642	13.9133	5.9		20
Nickel	70604	S22993A3	15	S22993A3	14	1.3989	1.3779	1.5		20
Potassium	70604	S22993A2	15	S22993A2	14	19.3101	19.2020	.56		20
Sodium	70604	S22993A2	15	S22993A2	14	25.1531	24.0957	4.3		20
Vanadium	70604	S22993A3	15	S22993A3	14	1.1205	1.1018	1.7		20
Zinc	70604	S22993A3	15	S22993A3	14	1.0983	1.0964	.18		20

TxtQcType: MR Matrix: SOIL SampleID: AD05999-001

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Aluminum	70604	S22993A2	17	S22993A2	16	6.0582	5.7971	4.4		20
Barium	70604	S22993A3	17	S22993A3	16	0.1U	0.1U	---		20
Calcium	70604	S22993A2	17	S22993A2	16	10U	10.1886	---		20
Chromium	70604	S22993A3	17	S22993A3	16	0.05U	0.05U	---		20
Cobalt	70604	S22993A3	17	S22993A3	16	0.025U	0.025U	---		20
Copper	70604	S22993A3	17	S22993A3	16	0.05U	0.05U	---		20
Iron	70604	S22993A2	17	S22993A2	16	19.5359	13.3407	38	a	20
Lead	70604	S22993A3	17	S22993A3	16	0.05U	0.05U	---		20
Magnesium	70604	S22993A2	17	S22993A2	16	5U	6.9691	---		20
Manganese	70604	S22993A3	17	S22993A3	16	0.2006	0.1736	14		20
Mercury	70604	H22993S	17	H22993S	16	.5U	.5U	---		20
Nickel	70604	S22993A3	17	S22993A3	16	0.05U	0.05U	---		20
Potassium	70604	S22993A2	17	S22993A2	16	5U	5U	---		20
Sodium	70604	S22993A2	17	S22993A2	16	2.5U	2.5U	---		20
Vanadium	70604	S22993A3	17	S22993A3	16	0.1U	0.1U	---		20
Zinc	70604	S22993A3	17	S22993A3	16	0.1U	0.1U	---		20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 70604

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MSD Matrix: SOIL SampleID: AD05999-001

Analyte	BatchId	Data Fil	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Aluminum	70604	S22993A2	19	S22993A2	18	12.5238	10.9998	13	20
Barium	70604	S22993A3	19	S22993A3	18	0.4984	0.4997	.27	20
Calcium	70604	S22993A2	19	S22993A2	18	50.5624	50.6709	.21	20
Chromium	70604	S22993A3	19	S22993A3	18	0.4920	0.5068	3	20
Cobalt	70604	S22993A3	19	S22993A3	18	0.4885	0.4906	.42	20
Copper	70604	S22993A3	19	S22993A3	18	0.4985	0.5084	2	20
Iron	70604	S22993A2	19	S22993A2	18	24.6525	21.0229	16	20
Lead	70604	S22993A3	19	S22993A3	18	0.4794	0.4738	1.2	20
Magnesium	70604	S22993A2	19	S22993A2	18	51.2276	51.3202	.18	20
Manganese	70604	S22993A3	19	S22993A3	18	0.7375	0.6576	11	20
Mercury	70604	H22993S	19	H22993S	18	10.2438	10.3985	1.5	20
Nickel	70604	S22993A3	19	S22993A3	18	0.4961	0.4978	.35	20
Potassium	70604	S22993A2	19	S22993A2	18	48.5644	49.3918	1.7	20
Sodium	70604	S22993A2	19	S22993A2	18	48.9376	49.8599	1.9	20
Vanadium	70604	S22993A3	19	S22993A3	18	0.5202	0.5156	.89	20
Zinc	70604	S22993A3	19	S22993A3	18	0.5153	0.4963	3.7	20

TxtQcType: SD Matrix: SOIL SampleID: AD05999-001

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Aluminum	70604	S22993A2	21	S22993A2	16	5	1.1690	5.7971	0.83		10
Barium	70604	S22993A3	21	S22993A3	16	5	0.0059	0.0334	11	a	10
Calcium	70604	S22993A2	21	S22993A2	16	5	1.9235	10.1886	5.6		10
Chromium	70604	S22993A3	21	S22993A3	16	5	0.0030	0.0229	34	c	10
Cobalt	70604	S22993A3	21	S22993A3	16	5	-0.0055	-0.0011	---		10
Copper	70604	S22993A3	21	S22993A3	16	5	0.0068	0.0207	64	c	10
Iron	70604	S22993A2	21	S22993A2	16	5	2.7034	13.3407	1.3		10
Lead	70604	S22993A3	21	S22993A3	16	5	-0.0002	0.0085	---		10
Magnesium	70604	S22993A2	21	S22993A2	16	5	1.2937	6.9691	7.2		10
Manganese	70604	S22993A3	21	S22993A3	16	5	0.0351	0.1736	0.98		10
Nickel	70604	S22993A3	21	S22993A3	16	5	-0.0086	-0.0011	---		10
Potassium	70604	S22993A2	21	S22993A2	16	5	0.2505	0.7962	57	c	10
Sodium	70604	S22993A2	21	S22993A2	16	5	-0.2098	-0.0873	---		10
Vanadium	70604	S22993A3	21	S22993A3	16	5	0.0074	0.0315	17	c	10
Zinc	70604	S22993A3	21	S22993A3	16	5	-0.0022	0.0158	---		10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 70605

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 70605

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Antimony	70605	S082318B	54	S082318B	53	24.3010	24.5290	.93	20
Arsenic	70605	S082318B	54	S082318B	53	61.1710	60.0520	1.8	20
Beryllium	70605	S082318B	54	S082318B	53	59.6850	56.7630	5	20
Cadmium	70605	S082318B	54	S082318B	53	269.0190	263.1360	2.2	20
Selenium	70605	S082318B	54	S082318B	53	155.0720	150.6230	2.9	20
Silver	70605	S082318B	54	S082318B	53	55.2150	54.1690	1.9	20
Thallium	70605	S082318B	54	S082318B	53	203.0550	203.4530	.2	20

TxtQcType: MR Matrix: SOIL SampleID: AD05999-001

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Antimony	70605	S082318B	56	S082318B	55	4U	4U	---	20
Arsenic	70605	S082318B	56	S082318B	55	1.8310	1.8490	0.98	20
Beryllium	70605	S082318B	56	S082318B	55	1U	1U	---	20
Cadmium	70605	S082318B	56	S082318B	55	2U	2U	---	20
Selenium	70605	S082318B	56	S082318B	55	10U	10U	---	20
Silver	70605	S082318B	56	S082318B	55	1U	1U	---	20
Thallium	70605	S082318B	56	S082318B	55	2U	2U	---	20

TxtQcType: MSD Matrix: SOIL SampleID: AD05999-001

Analyte	BatchId	Data Fil	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Antimony	70605	S082318B	58	S082318B	57	202.0970	182.2480	10	20
Arsenic	70605	S082318B	58	S082318B	57	213.3350	205.4420	3.8	20
Beryllium	70605	S082318B	58	S082318B	57	199.2510	185.5830	7.1	20
Cadmium	70605	S082318B	58	S082318B	57	215.1880	209.1600	2.8	20
Selenium	70605	S082318B	58	S082318B	57	212.4530	202.4520	4.8	20
Silver	70605	S082318B	58	S082318B	57	37.2330	37.0480	.5	20
Thallium	70605	S082318B	58	S082318B	57	215.2220	207.9690	3.4	20

TxtQcType: SD Matrix: SOIL SampleID: AD05999-001

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Antimony	70605	S082318B	60	S082318B	55	5	0.0590	0.0270	993	c	20
Arsenic	70605	S082318B	60	S082318B	55	5	0.4890	1.8490	32	a	20
Beryllium	70605	S082318B	60	S082318B	55	5	0.2560	0.2230	474	c	20
Cadmium	70605	S082318B	60	S082318B	55	5	0.0320	0.0820	95	c	20
Selenium	70605	S082318B	60	S082318B	55	5	0.2910	0.3020	382	c	20
Silver	70605	S082318B	60	S082318B	55	5	0.0510	0.0470	443	c	20
Thallium	70605	S082318B	60	S082318B	55	5	0.0390	0.0900	117	c	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B 200.7/200.8 OTHER

Batch No.: 22993 Analyst:

QC Number: 70604 Prep Date: 8/21/18

Matrix: Soil Reviewed By: 8/3

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50ml	50ml				–	
LCS	0.5g					–	
LCSD						–	
1. D05999-001							Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate							
MR 05999-001							
MS 05999-001							Balance used: B-033
MSD 05999-001							Pipettes used: 149, 152
2. 05721-002							
3. 06016-002							Hot Block used: 5
4. 06018-001							
5. 06031-001							
6. -003							
7. -005							
8. -007							
9. -009							
10. -012							
11. -014							
12. -016							
13. -018							
14. -020							
15. 06000-001							
16. 05917-012							
17. -013							
18. -014							
19. -015							
20.							

Hot Plate Temperature: 93.6 C (90-95° C) Start Time: 10:45 End Time: 15:10

	Volume mL	Lot #
LCS, LCSD	0.5g	V- 11655
LLLCS, LLLCSD		V-
MS, MSD	0.5ml	V- 11732, 11748
LLMS, LLMSD	0.25ml	V- 285485

Acid	Vol mL	Lot#
HNO_3	2.5ml	V- ~~11784~~ 11859
HCl	5ml	V- 11785
H_2O_2	1.5ml	V- 11645

Acid	Vol mL	Lot#
1:1 HNO_3	5ml	V280092
1:1 HCl		V-

Relinquished By _____ Date 8/21/18

Received By _____ Date 8/21/18

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Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B 200.7/200.8 OTHER_____

Batch No.: 22994 Analyst: [illegible]

QC Number: 70605 Prep Date: 8/21/18

Matrix: 6020 Soil Reviewed By: SB

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50ml	50ml	25ml	50ml		--	
LCS	0.9					--	
LCSD						--	
1. D05999-001	0.59						Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate							
MR 05999-001							
MS 05999-001							Balance used: B-033
MSD 05999-001							Pipettes used: 149, 152
2. 05721-002							
3. 06016-002							Hot Block used: 5
4. 06018-001							
5. 06031-001							
6. -003							
7. -005							
8. -007							
9. -009							
10. -012							
11. -014							
12. -016							
13. -018							
14. -020							
15.							
16.							
17.							
18.							
19.							
20.							

Hot Plate Temperature: 93.8 C (90-95° C) Start Time: 10:45 End Time: 15:08

	Volume mL	Lot #
LCS, LCSD	0.9	V- 11655
LLLCS, LLLCSD		V-
MS, MSD	0.5ml	V-11732, 11348
LLMS, LLMSD	0.25ml	V-285485

Acid	Vol mL	Lot#
HNO_3	2.5ml	V-118899
HCl		V-
H_2O_2	1.5ml	V-11645

Acid	Vol mL	Lot#
1:1 HNO_3	5ml	V-280432
1:1 HCl		V-

Relinquished By [illegible] Date 8/21/18

Received By [illegible] Date 8/21/18

HG SAMPLE PREPARATION LOG

Hampton-Clarke/Veritech

ANALYTICAL METHOD: 245.1 7470A 7471B OTHER_____

Batch No.:* 22993

QC Number: 70604

Matrix: Soil

Analyst: [illegible]

Prep Date: 8/21/18

Review By: [illegible]

LAB ID#	MERCURY INITIAL	MERCURY FINAL	COMMENTS	STANDARDS
Method blank	25ml	25ml		CAL CURVE BLK 0ppb V-286009
LCS	0159			
LCSD				STD 0.2 ppb V-286010
05999-001				STD 0.5 ppb V-286011
MR 05999-001				STD 1.0 ppb V-286012
MS 05999-001				STD 2.0 ppb V-286013
MSD 05999-001				STD 5.0 ppb V-286014
2 05721-002				STD 10.0 ppb V-286015
3 06016-002				STD 25.0 ppb V-286016
4 06018-001				ICV 10.0 ppb V-286007
5 06031-001				CCV 20.0 ppb V-286008
6 -003				
7 -005				
8 -007				Balance used: B-033
9 -009				Pipettes used: 121, 159, 135
10 -012				
11 -014				Hot Block used: 6
12 -016				
13 -018				
14 -020				
15				
16				
17				
18				
19				
20				

Lot Numbers	Volume (mL)	Acid	Volume (mL)	Lot #
$KMnO_4$: V-284158	3.75ml	HNO_3		V-
$K_2S_2O_8$: V-		HCl		V-
NH_4OH: V-284160	1.5ml	H_2SO_4		V-
		Aqua Regia	1.25ml	V-286006

**Block Temp.: °C	93.3
Time on Block:	11:30
Time Out of Block:	12:00

Spike Volume & Lot #

☐ LCS V-11655 0.125 ml / 0.25 ml

☐ MS 285972 0.250 ml

☐ Standards/Control Batch B-25561

Start time: 10:45 End Time: 12:00

**Temperature 245.1 / 7470A: 90-95C 7471B : 92-98C

Relinquished By: [illegible]

*25 mLs of each standard was digested with this batch using the same reagents and at the same time as the above samples. The preparation of each standard may be referenced in Veriprog using the standard batch number and the corresponding V #s.

HG PREP 2016

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\HGCV1A\H22993S.txt

Analysis Date: 08/23/18 **Instrument:** HGCV1A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
Calibration Blank	1	CAL	16:11	1							0
.2 PPB	1	CAL	16:13	2							0
.5 PPB	1	CAL	16:14	3							0
1 PPB	1	CAL	16:16	4							0
2 PPB	1	CAL	16:17	5							0
5 PPB	1	CAL	16:19	6							0
10 PPB	1	CAL	16:20	7							0
25 PPB	1	CAL	16:22	8							0
ICV (2)	1	ICV	16:24	9							0
ICB	1	ICB	16:26	10							0
MB 70604 (167)	1	MB	16:28	11	HG-SOIL	SOIL	SOIL	SW846	70604		0
LCS 70604	1	NA	16:29	12	HG-SOIL	SOIL	SOIL	SW846	70604	CONC.HIGH	0
LCS MR 70604	1	NA	16:31	13	HG-SOIL	SOIL	SOIL	SW846	70604	CONC.HIGH	0
LCS 5D	5	LCS	16:33	14	HG-SOIL	SOIL	SOIL	SW846	70604		0
LCS MR 5D	5	LCS	16:35	15	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD05999-001	1	SMP	16:37	16	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD05999-001	1	MR	16:39	17	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD05999-001	1	MS	16:40	18	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD05999-001	1	MSD	16:42	19	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD05721-002	1	SMP	16:44	20	HG-SOIL	SOIL	SOIL	SW846	70604		0
CCV	1	CCV	16:46	21							0
CCB	1	CCB	16:48	22							0
AD06016-002	1	SMP	16:49	23	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD06018-001	1	SMP	16:51	24	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD06031-001	1	SMP	16:52	25	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD06031-003	1	SMP	16:54	26	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD06031-005	1	SMP	16:55	27	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD06031-007	1	SMP	16:57	28	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD06031-009	1	SMP	16:58	29	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD06031-012	1	SMP	17:00	30	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD06031-014	1	SMP	17:01	31	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD06031-016	1	SMP	17:03	32	HG-SOIL	SOIL	SOIL	SW846	70604		0
CCV	1	CCV	17:04	33							0
CCB	1	CCB	17:06	34							0
AD06031-018	1	SMP	17:08	35	HG-SOIL	SOIL	SOIL	SW846	70604		0
AD06031-020	1	SMP	17:09	36	HG-SOIL	SOIL	SOIL	SW846	70604		0
CCV	1	CCV	17:11	37							0
CCB	1	CCB	17:13	38							0

Comments/Reviewedby:

carmela
192.168.1.70 8/23/2018 5:50:34 PM

OK

8/23/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

V-286198

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\S082318BNEW.txt

Analysis Date: 08/23/18

Instrument: MS3_7700SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
RINSE	1	NA	21:30	1		SOIL	SOIL	SW846	70615		0
CalBlk V-285822	1	ISBLK	21:34	2		SOIL	SOIL				V-285822(Cal Blk WARNING)
CalStd1 V-285823	1	CAL	21:39	3							V-285823(Cal Std-1 WARNING)
CalStd2 V-285824	1	CAL	21:43	4							V-285824(Cal Std-2 WARNING)
CalStd3 V-285825	1	CAL	21:47	5							V-285825(Cal Std-3 WARNING)
CalStd4 V-285826	1	CAL	21:51	6							V-285826(Cal Std-4 WARNING)
CalStd5 V-285827	1	CAL	21:56	7							V-285827(Cal Std-5 WARNING)
ICV V-285828	1	ICV	22:00	8							V-285828(ICV WARNING)
LLICV V-285833	1	LLICV	22:04	9		SOIL	SOIL	SW846	70615		V-285833(LL-ICV/CCV SOIL WARNING)
ICB V-285829	1	ICB	22:08	10							V-285829(ICB/CCB WARNING)
LRS V-285831	1	LRS	22:13	11		SOIL	SOIL	SW846	70615		V-285831(LRS WARNING)
RINSE	1	NA	22:18	12		SOIL	SOIL	SW846	70615		0
ICSA V-285830	1	ICSA	22:22	13							V-285830(ICSA WARNING)
RINSE	1	NA	22:26	14		SOIL	SOIL	SW846	70615		0
RINSE	1	NA	22:31	15		SOIL	SOIL	SW846	70615		0
CCV V-285832	1	CCV	22:35	16							V-285832(CCV WARNING)
CCB V-285829	1	CCB	22:39	17							V-285829(ICB/CCB WARNING)
MB 70615 (100)	1	MB	22:43	18		SOIL	SOIL	SW846	70615		0
LCS 70615	1	LCS	22:48	19		SOIL	SOIL	SW846	70615		0
LCS MR 70615	1	LCS	22:52	20		SOIL	SOIL	SW846	70615		0
AD06078-004	1	SMP	22:56	21	MET-5-6020	SOIL	SOIL	SW846	70615		0
AD06078-004	1	MR	23:00	22	MET-5-6020	SOIL	SOIL	SW846	70615		0
AD06078-004	1	MS	23:05	23	MET-5-6020	SOIL	SOIL	SW846	70615		0
AD06078-004	1	MSD	23:09	24	MET-5-6020	SOIL	SOIL	SW846	70615		0
AD06078-004	1	PS	23:13	25	MET-5-6020	SOIL	SOIL	SW846	70615		0
AD06078-004	5	SD	23:17	26	MET-5-6020	SOIL	SOIL	SW846	70615		0
RINSE	1	NA	23:21	27		SOIL	SOIL	SW846	70615		0
CCV V-285832	1	CCV	23:26	28							V-285832(CCV WARNING)
CCB V-285829	1	CCB	23:30	29							V-285829(ICB/CCB WARNING)
AD06078-009	1	SMP	23:34	30	MET-5-6020	SOIL	SOIL	SW846	70615		0
AD06078-013	1	SMP	23:39	31	MET-5-6020	SOIL	SOIL	SW846	70615	Be not reported (Sc1 failed)	0
AD06065-001	1	SMP	23:43	32	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06059-001	1	SMP	23:47	33	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06059-002	1	SMP	23:51	34	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06066-001	1	SMP	23:55	35	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06066-002	1	SMP	00:00	36	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06066-003	1	SMP	00:04	37	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06066-004	1	SMP	00:08	38	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
RINSE	1	NA	00:12	39		SOIL	SOIL	SW846	70615		0
CCV V-285832	1	CCV	00:16	40							V-285832(CCV WARNING)
CCB V-285829	1	CCB	00:21	41							V-285829(ICB/CCB WARNING)
AD06051-001	1	SMP	00:25	42	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06051-002	1	SMP	00:29	43	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06051-003	1	SMP	00:33	44	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06051-004	1	SMP	00:38	45	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06051-005	1	SMP	00:42	46	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06047-001	1	SMP	00:46	47	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
AD06047-002	1	SMP	00:50	48	MET-TAL6020S	SOIL	SOIL	SW846	70615		0
RINSE	1	NA	00:55	49		SOIL	SOIL	SW846	70615		0
CCV V-285832	1	CCV	00:59	50							V-285832(CCV WARNING)
CCB V-285829	1	CCB	01:03	51							V-285829(ICB/CCB WARNING)
MB 70605 (100)	1	MB	01:08	52		SOIL	SOIL	SW846	70605		0
LCS 70605	1	LCS	01:12	53		SOIL	SOIL	SW846	70605		0
LCS MR 70605	1	LCS	01:16	54		SOIL	SOIL	SW846	70605		0
AD05999-001	1	SMP	01:20	55	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD05999-001	1	MR	01:25	56	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD05999-001	1	MS	01:29	57	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD05999-001	1	MSD	01:33	58	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD05999-001	1	PS	01:37	59	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD05999-001	5	SD	01:42	60	MET-TAL6020S	SOIL	SOIL	SW846	70605		0

Comments/Reviewedby:

sean
192.168.1.38 8/24/2018 11:09:14 AM

OK

8/27/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\S082318BNEW.txt

Analysis Date: 08/24/18

Instrument: MS3_7700SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
RINSE	1	NA	01:46	61		SOIL	SOIL	SW846	70615		0
CCV V-285832	1	CCV	01:50	62							V-285832(CCV WARNING)
CCB V-285829	1	CCB	01:54	63							V-285829(ICB/CCB WARNING)
AD05721-002	1	SMP	01:59	64	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD06016-002	1	SMP	02:03	65	MET-RCRA-MS	SOIL	SOIL	SW846	70605		0
AD06018-001	1	SMP	02:07	66	MET-RCRA-MS	SOIL	SOIL	SW846	70605		0
AD06031-001	1	SMP	02:11	67	MET-TAL6020S	SOIL	SOIL	SW846	70605	Be not reported (Sc1 failed)	0
AD06031-003	1	SMP	02:16	68	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD06031-005	1	SMP	02:20	69	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD06031-007	1	SMP	02:24	70	MET-TAL6020S	SOIL	SOIL	SW846	70605	Be not reported (Sc1 failed)	0
AD06031-009	1	SMP	02:28	71	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD06031-012	1	SMP	02:33	72	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
RINSE	1	NA	02:37	73		SOIL	SOIL	SW846	70615		0
CCV V-285832	1	CCV	02:41	74							V-285832(CCV WARNING)
CCB V-285829	1	CCB	02:45	75							V-285829(ICB/CCB WARNING)
AD06031-014	1	SMP	02:50	76	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD06031-016	1	SMP	02:54	77	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD06031-018	1	SMP	02:58	78	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
AD06031-020	1	SMP	03:02	79	MET-TAL6020S	SOIL	SOIL	SW846	70605		0
RINSE	1	NA	03:06	80		SOIL	SOIL	SW846	70615		0
CCV V-285832	1	CCV	03:11	81							V-285832(CCV WARNING)
CCB V-285829	1	CCB	03:15	82							V-285829(ICB/CCB WARNING)

Comments/Reviewedby:

sean
192.168.1.38 8/24/2018 11:09:14 AM

OK

8/27/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP3A\S22993A3.txt

Analysis Date: 08/24/18

Instrument: PEICP3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-283171	1	CAL	06:36	1							V-283171(ICB/CCB)
CALST2 V-285929	1	CAL	06:40	2							V-285929(LLICV/LLCCV soil)
CALST3 V-285445	1	CAL	06:43	3							V-285445(ICS3 - Middle Std)
CALST4 V-285446	1	CAL	06:47	4							V-285446(ICS4 High std)
ICV V-285444	1	ICV	06:51	5							V-285444(CCV)
ICB V-283171	1	ICB	06:55	6							V-283171(ICB/CCB)
LRS V-285664	1	LRS	06:59	7		SOIL	SOIL	SW846	70604		V-285664(LRS)
ICS3 V-285445	1	ICS	07:03	8							V-285445(ICS3 - Middle Std)
LLICV V-285929	1	LLICV	07:06	9		SOIL	SOIL	SW846	70604		V-285929(LLICV/LLCCV soil)
ICSA V-285079	1	ICSA	07:10	10							V-285079(ICSA)
CCV V-285444	1	CCV	07:15	11							V-285444(CCV)
CCB V-283171	1	CCB	07:19	12							V-283171(ICB/CCB)
MB 70604 (100)	1	MB	07:22	13		SOIL	SOIL	SW846	70604		()
LCS 70604	1	LCS	07:26	14		SOIL	SOIL	SW846	70604		()
LCS MR 70604	1	LCS	07:30	15		SOIL	SOIL	SW846	70604		()
AD05999-001	1	SMP	07:35	16	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05999-001	1	MR	07:38	17	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05999-001	1	MS	07:42	18	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05999-001	1	MSD	07:46	19	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05999-001	1	PS	07:50	20	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05999-001	5	SD	07:54	21	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
CCV V-285444	1	CCV	07:57	22							V-285444(CCV)
CCB V-283171	1	CCB	08:01	23							V-283171(ICB/CCB)
AD05721-002	1	SMP	08:05	24	MET-TAL6010S	SOIL	SOIL	SW846	70604	V NOT reported (Fe> LR)	()
AD06016-002	1	SMP	08:09	25	MET-RCRA-S	SOIL	SOIL	SW846	70604		()
AD06018-001	1	SMP	08:13	26	MET-RCRA-S	SOIL	SOIL	SW846	70604		()
AD06031-001	1	SMP	08:18	27	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-003	1	SMP	08:22	28	MET-TAL6010S	SOIL	SOIL	SW846	70604	V NOT reported (Fe> LR)	()
AD06031-005	1	SMP	08:27	29	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-007	1	SMP	08:31	30	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-009	1	SMP	08:36	31	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-012	1	SMP	08:40	32	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
CCV V-285444	1	CCV	08:44	33							V-285444(CCV)
CCB V-283171	1	CCB	08:48	34							V-283171(ICB/CCB)
AD06031-014	1	SMP	08:52	35	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-016	1	SMP	08:56	36	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-018	1	SMP	09:00	37	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-020	1	SMP	09:05	38	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06000-001	1	NA	09:09	39	PB-SOIL	SOIL	SOIL	SW846	70604	Pb over LR	()
AD05917-012	1	NA	09:14	40	PB-SOIL	SOIL	SOIL	SW846	70604	high internal std	()
AD05917-013	1	NA	09:19	41	PB-SOIL	SOIL	SOIL	SW846	70604	high internal std	()
AD05917-014	1	NA	09:23	42	PB-SOIL	SOIL	SOIL	SW846	70604	high internal std	()
AD05917-015	1	NA	09:28	43	PB-SOIL	SOIL	SOIL	SW846	70604	high internal std	()
AD06000-001	10	SMP	09:32	44	PB-SOIL	SOIL	SOIL	SW846	70604	Pb reported	()
CCV V-285444	1	CCV	09:36	45							V-285444(CCV)
CCB V-283171	1	CCB	09:40	46							V-283171(ICB/CCB)
AD05917-012	4	SMP	09:44	47	PB-SOIL	SOIL	SOIL	SW846	70604	Pb reported	()
AD05917-013	4	SMP	09:48	48	PB-SOIL	SOIL	SOIL	SW846	70604	Pb reported	()
AD05917-014	4	SMP	09:52	49	PB-SOIL	SOIL	SOIL	SW846	70604	Pb reported	()
AD05917-015	4	SMP	09:57	50	PB-SOIL	SOIL	SOIL	SW846	70604	Pb reported	()
CCV V-285444	1	CCV	10:01	51							V-285444(CCV)
CCB V-283171	1	CCB	10:05	52							V-283171(ICB/CCB)

Comments/Reviewedby:

olufemi
192.168.1.76 8/24/2018 11:34:47 AM

RUN IS OK
All elements reported, except earth elements

8/27/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICPRAD2A\S22993A2.txt

Analysis Date: 08/24/18

Instrument: PEICPRAD2A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-282340	1	CAL	00:54	1							V-282340(ICB/CCB)
CALST2 V-281815	1	CAL	00:57	2							V-281815(LLICV/LLCCV soil)
CALST3 V-282202	1	CAL	01:01	3							V-282202(ICS3 - Middle Std)
CALST4 V-282204	1	CAL	01:07	4							V-282204(ICS4 High std)
ICV V-282698	1	ICV	01:12	5							V-282698(CCV)
ICB V-282340	1	ICB	01:18	6							V-282340(ICB/CCB)
LRS V-283372	1	LRS	01:21	7		SOIL	SOIL	SW846	70604		V-283372(LRS)
ICS3 V-282202	1	ICS	01:27	8							V-282202(ICS3 - Middle Std)
LLICV V-281815	1	LLICV	01:32	9		SOIL	SOIL	SW846	70604		V-281815(LLICV/LLCCV soil)
ICSA V-282430	1	ICSA	01:36	10							V-282430(ICSA)
CCV V-282698	1	CCV	01:42	11							V-282698(CCV)
CCB V-282340	1	CCB	01:47	12							V-282340(ICB/CCB)
MB 70604 (100)	1	MB	01:51	13		SOIL	SOIL	SW846	70604		()
LCS 70604	1	LCS	01:55	14		SOIL	SOIL	SW846	70604		()
LCS MR 70604	1	LCS	02:00	15		SOIL	SOIL	SW846	70604		()
AD05999-001	1	SMP	02:05	16	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05999-001	1	MR	02:11	17	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05999-001	1	MS	02:16	18	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05999-001	1	MSD	02:21	19	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05999-001	1	PS	02:27	20	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05999-001	5	SD	02:32	21	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
CCV V-282698	1	CCV	02:36	22							V-282698(CCV)
CCB V-282340	1	CCB	02:42	23							V-282340(ICB/CCB)
AD05721-002	1	SMP	02:45	24	MET-TAL6010S	SOIL	SOIL	SW846	70604	Fe NOT reported (Fe> LR)	()
AD06016-002	1	SMP	02:51	25	MET-RCRA-S	SOIL	SOIL	SW846	70604		()
AD06018-001	1	SMP	02:56	26	MET-RCRA-S	SOIL	SOIL	SW846	70604		()
AD06031-001	1	SMP	03:01	27	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-003	1	SMP	03:07	28	MET-TAL6010S	SOIL	SOIL	SW846	70604	Fe NOT reported (Fe> LR)	()
AD06031-005	1	SMP	03:12	29	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-007	1	SMP	03:17	30	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
CCV V-282698	1	CCV	03:23	31							V-282698(CCV)
CCB V-282340	1	CCB	03:28	32							V-282340(ICB/CCB)
AD06031-009	1	SMP	03:32	33	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-012	1	SMP	03:37	34	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-014	1	SMP	03:43	35	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-016	1	SMP	03:48	36	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-018	1	SMP	03:53	37	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD06031-020	1	SMP	03:58	38	MET-TAL6010S	SOIL	SOIL	SW846	70604		()
AD05721-002	2	SMP	04:04	39	MET-TAL6010S	SOIL	SOIL	SW846	70604	Fe reported	()
AD06031-003	2	SMP	04:09	40	MET-TAL6010S	SOIL	SOIL	SW846	70604	Fe reported	()
CCV V-282698	1	CCV	04:14	41							V-282698(CCV)
CCB V-282340	1	CCB	04:20	42							V-282340(ICB/CCB)

Comments/Reviewedby:

olufemi
192.168.1.76 8/24/2018 5:25:53 AM

RUN IS OK
Earth elements reported

8/27/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

ICPMS Internal Standard Summary Report

TuneID: 1

Batch/FileID: S082318BNSample ID: CalBlk V-285822 Sample Date 08/23/18 Sample Time: 21:34

IS ID:	Area	Area Limit		
Ho-1	1923640.75	1346548.525	-	2887384.76575
In-1	1174711.60	822298.12	-	1763242.1116
Sc-1	608862.29	426203.603	-	913902.29729
Tb-1	1923810.14	1346667.098	-	2887639.02014

QcType	txtSamId:	Pos	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area	Area	Area	Area	Area
ISBLK	CalBlk V-285822	2	1923640.	1174711.	608862.2	1923810.				
SMP	RINSE	1	1935549.	1198124.	618115.9	1947312.				
CAL	CalStd1 V-28582	3	1921457.	1195944.	614100.2	1947823.				
CAL	CalStd2 V-28582	4	1960639.	1220030.	631149.4	1983359.				
CAL	CalStd3 V-28582	5	1958711.	1205401.	625952.7	1984999.				
CAL	CalStd4 V-28582	6	1943926.	1188185.	618716.0	1966486.				
CAL	CalStd5 V-28582	7	1946697.	1151434.	597728.0	1949006.				
ICV	ICV V-285828	8	1911026.	1151536.	595628.3	1931286.				
LLICV	LLICV V-285833	9	1930189.	1194097.	611477.2	1967852.				
ICB	ICB V-285829	10	1867073.	1151849.	593427.1	1921558.				
LRS	LRS V-285831	11	1899335.	1096072.	594484.1	1911273.				
SMP	RINSE	12	1922195.	1180622.	606883.6	1959054.				
ICSA	ICSA V-285830	13	1990056.	1122764.	592962.5	2015177.				
SMP	RINSE	14	2032438.	1238305.	616486.7	2048684.				
SMP	RINSE	15	1990251.	1207056.	604205.9	2012236.				
CCV	CCV V-285832	16	2034018.	1228893.	626427.0	2069145.				
CCB	CCB V-285829	17	1993014.	1215496.	611122.1	2002087.				
MB	MB 70615 (100)	18	1974266.	1207189.	606001.6	2012596.				
LCS	LCS 70615	19	2068678.	1259714.	697405.0	2110442.				
MR	LCS MR 70615	20	2101231.	1273528.	698099.4	2125639.				
SMP	AD06078-004	21	2152717.	1272138.	816636.1	2179447.				
MR	AD06078-004	22	2198072.	1295106.	825681.2	2223320.				
MS	AD06078-004	23	2108248.	1228548.	800757.9	2118836.				
MSD	AD06078-004	24	2130623.	1229382.	784401.8	2153119.				
PS	AD06078-004	25	2188935.	1274291.	819965.0	2219517.				
SD	AD06078-004	26	2147708.	1328420.	730489.1	2179542.				
SMP	RINSE	27	2033065.	1281020.	670560.8	2072124.				
CCV	CCV V-285832	28	2029543.	1247459.	652184.4	2066768.				
CCB	CCB V-285829	29	1941924.	1203785.	613731.3	1977536.				
SMP	AD06078-009	30	2273151.	1221263.	803269.7	2306956.				
SMP	AD06078-013	31	2167254.	1227072.	1189050. *	2200118.				
SMP	AD06065-001	32	2196941.	1308009.	873715.2	2212448.				
SMP	AD06059-001	33	1998165.	1150178.	708601.8	2026674.				
SMP	AD06059-002	34	2029524.	1152436.	752734.5	2035141.				
SMP	AD06066-001	35	2134251.	1277615.	776700.4	2155612.				
SMP	AD06066-002	36	2065679.	1204223.	791860.6	2081086.				
SMP	AD06066-003	37	2074468.	1237262.	737528.8	2109210.				
SMP	AD06066-004	38	2005608.	1180626.	704474.0	2016535.				
SMP	RINSE	39	1898544.	1166796.	584799.6	1925023.				
CCV	CCV V-285832	40	1939897.	1184263.	612003.9	1973602.				
CCB	CCB V-285829	41	1902016.	1183850.	601174.1	1934720.				
SMP	AD06051-001	42	1884900.	1058949.	668360.1	1887110.				
SMP	AD06051-002	43	1878111.	1046151.	690322.0	1882844.				
SMP	AD06051-003	44	1895464.	1080560.	662850.1	1899990.				
SMP	AD06051-004	45	1890952.	1089027.	673043.7	1923116.				
SMP	AD06051-005	46	1882028.	1064816.	649431.4	1882468.				
SMP	AD06047-001	47	1979635.	1168195.	826253.7	2022601.				
SMP	AD06047-002	48	1923297.	1127867.	698815.0	1930185.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 1

SMP	RINSE	49	1764769.	1080581.	541314.7	1783097.
CCV	CCV V-285832	50	1779660.	1077917.	548107.1	1802328.
CCB	CCB V-285829	51	1741884.	1076922.	538914.5	1775770.
MB	MB 70605 (100)	52	1770221.	1085257.	544039.0	1777480.
LCS	LCS 70605	53	1881352.	1135783.	613448.7	1900521.
MR	LCS MR 70605	54	1883654.	1130496.	607826.3	1912667.
SMP	AD05999-001	55	1838584.	1118948.	614181.9	1866629.
MR	AD05999-001	56	1810754.	1098624.	598537.0	1849107.
MS	AD05999-001	57	1799679.	1069907.	602078.5	1813983.
MSD	AD05999-001	58	1811356.	1088457.	595520.4	1838219.
PS	AD05999-001	59	1868818.	1110963.	614421.1	1883415.
SD	AD05999-001	60	1791431.	1111658.	574723.0	1832491.
SMP	RINSE	61	1741663.	1067656.	543926.0	1763159.
CCV	CCV V-285832	62	1724484.	1037750.	535981.4	1750453.
CCB	CCB V-285829	63	1663636.	1029490.	516074.0	1673286.
SMP	AD05721-002	64	1869812.	1066283.	870633.5	1877534.
SMP	AD06016-002	65	1839080.	1080396.	723248.8	1863046.
SMP	AD06018-001	66	1844465.	1079480.	687035.9	1877134.
SMP	AD06031-001	67	1991998.	1082375.	914402.7	* 2043416.
SMP	AD06031-003	68	1982309.	1072277.	868241.9	2002326.
SMP	AD06031-005	69	1983453.	1066080.	888277.0	2026427.
SMP	AD06031-007	70	1929342.	1052790.	1011224.	* 1957998.
SMP	AD06031-009	71	1768017.	963309.8	855271.7	1768625.
SMP	AD06031-012	72	1922837.	1057052.	845245.0	1947605.
SMP	RINSE	73	1750889.	1083945.	557975.6	1777999.
CCV	CCV V-285832	74	1702057.	1041733.	540019.4	1739746.
CCB	CCB V-285829	75	1648435.	1039262.	522718.4	1685570.
SMP	AD06031-014	76	1931712.	1033551.	868053.8	1961207.
SMP	AD06031-016	77	1894222.	1060646.	853283.2	1928285.
SMP	AD06031-018	78	1993452.	1091359.	879585.9	2033055.
SMP	AD06031-020	79	1864460.	1044414.	823102.8	1874128.
SMP	RINSE	80	1702057.	1065708.	532651.0	1712477.
CCV	CCV V-285832	81	1740052.	1065141.	547801.2	1762329.
CCB	CCB V-285829	82	1671493.	1055840.	530879.0	1724204.

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

Batch/FileID: S082318BN Sample ID: CalBlk V-285822 Sample Date 08/23/18 Sample Time: 21:34

IS ID:	Area	Area Limit		
Ho-2	1483608.71	1038526.097	-	2226896.67371
In-2	763959.83	534771.881	-	1146703.70483
Sc-2	115445.47	80811.829	-	173283.65047
Tb-2	1518253.75	1062777.625	-	2278898.87875

QcType	txtSamId:	Pos	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area	Area	Area	Area	Area
ISBLK	CalBlk V-285822	2	1483608.	763959.8	115445.4	1518253.				
SMP	RINSE	1	1490760.	769967.4	116212.4	1528224.				
CAL	CalStd1 V-28582	3	1502228.	775576.6	116662.3	1531155.				
CAL	CalStd2 V-28582	4	1529278.	788823.6	118474.7	1565629.				
CAL	CalStd3 V-28582	5	1518739.	788370.7	118046.4	1553872.				
CAL	CalStd4 V-28582	6	1509999.	768778.4	116164.4	1541506.				
CAL	CalStd5 V-28582	7	1503707.	749329.9	112580.4	1527081.				
ICV	ICV V-285828	8	1511028.	765315.8	114989.3	1550281.				
LLICV	LLICV V-285833	9	1510123.	775140.6	115542.2	1547065.				
ICB	ICB V-285829	10	1480300.	760855.3	114081.6	1506504.				
LRS	LRS V-285831	11	1527648.	730684.9	114534.3	1551124.				
SMP	RINSE	12	1511842.	761502.9	113802.8	1538903.				
ICSA	ICSA V-285830	13	1608549.	735272.2	112957.3	1643146.				
SMP	RINSE	14	1582579.	790083.5	115048.4	1622520.				
SMP	RINSE	15	1549881.	777420.7	113561.7	1575065.				
CCV	CCV V-285832	16	1585653.	789431.4	117190.1	1606968.				
CCB	CCB V-285829	17	1532508.	773821.4	114210.4	1567435.				
MB	MB 70615 (100)	18	1540335.	773395.7	113905.9	1564307.				
LCS	LCS 70615	19	1620655.	807689.3	128751.2	1672396.				
MR	LCS MR 70615	20	1610499.	810570.8	128230.6	1665527.				
SMP	AD06078-004	21	1711712.	819472.9	153575.8	1772991.				
MR	AD06078-004	22	1715901.	830327.4	155136.4	1765960.				
MS	AD06078-004	23	1674450.	793558.9	147361.7	1707036.				
MSD	AD06078-004	24	1667032.	787536.3	146405.5	1751637.				
PS	AD06078-004	25	1704520.	835411.5	155560.7	1771649.				
SD	AD06078-004	26	1669237.	852254.2	136948.3	1746770.				
SMP	RINSE	27	1586691.	831602.6	126490.0	1628945.				
CCV	CCV V-285832	28	1581199.	801950.5	121469.9	1655335.				
CCB	CCB V-285829	29	1512888.	777458.2	116702.7	1536622.				
SMP	AD06078-009	30	1799646.	790037.5	150519.4	1888485.				
SMP	AD06078-013	31	1690788.	793005.8	221959.9 *	1763234.				
SMP	AD06065-001	32	1697883.	836066.7	162339.3	1770928.				
SMP	AD06059-001	33	1560172.	726062.3	128307.8	1577772.				
SMP	AD06059-002	34	1575759.	737808.8	140149.8	1600891.				
SMP	AD06066-001	35	1640147.	817661.0	145319.4	1671112.				
SMP	AD06066-002	36	1588894.	761963.1	145162.6	1613720.				
SMP	AD06066-003	37	1596064.	791494.1	137212.7	1650451.				
SMP	AD06066-004	38	1545710.	745598.0	128462.2	1576030.				
SMP	RINSE	39	1469025.	742213.4	108314.0	1502923.				
CCV	CCV V-285832	40	1507678.	762236.9	115012.7	1539347.				
CCB	CCB V-285829	41	1478639.	759631.9	112487.1	1507511.				
SMP	AD06051-001	42	1458461.	675369.4	124759.0	1475634.				
SMP	AD06051-002	43	1445555.	665144.1	128325.0	1469964.				
SMP	AD06051-003	44	1461211.	683682.4	121256.1	1484632.				
SMP	AD06051-004	45	1479781.	698752.3	127253.2	1501170.				
SMP	AD06051-005	46	1454105.	686711.9	121710.6	1479605.				
SMP	AD06047-001	47	1547512.	740866.5	152214.0	1574068.				
SMP	AD06047-002	48	1492450.	718855.7	128208.9	1516017.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

SMP	RINSE	49	1381396.	698252.0	102014.9	1406517.
CCV	CCV V-285832	50	1410654.	703901.1	102295.6	1437777.
CCB	CCB V-285829	51	1380833.	698521.2	101045.4	1401962.
MB	MB 70605 (100)	52	1387033.	702939.2	102153.4	1414992.
LCS	LCS 70605	53	1451717.	729364.6	114567.3	1479188.
MR	LCS MR 70605	54	1445817.	728076.9	113823.6	1481364.
SMP	AD05999-001	55	1426913.	722802.5	112249.8	1455574.
MR	AD05999-001	56	1435033.	714307.6	111009.9	1466540.
MS	AD05999-001	57	1399942.	693205.8	110875.0	1431030.
MSD	AD05999-001	58	1429812.	706361.6	109881.6	1451738.
PS	AD05999-001	59	1456553.	725101.4	115764.6	1484001.
SD	AD05999-001	60	1429760.	730701.8	110057.5	1461670.
SMP	RINSE	61	1379666.	701313.9	102796.6	1405328.
CCV	CCV V-285832	62	1404208.	697586.6	102912.1	1426101.
CCB	CCB V-285829	63	1350608.	683442.1	100119.0	1371133.
SMP	AD05721-002	64	1481894.	691328.8	160749.9	1497976.
SMP	AD06016-002	65	1434073.	690812.1	132466.2	1455863.
SMP	AD06018-001	66	1462204.	690172.1	126804.1	1484446.
SMP	AD06031-001	67	1539760.	686998.3	167997.5	1587339.
SMP	AD06031-003	68	1545543.	694285.3	160808.4	1585103.
SMP	AD06031-005	69	1541510.	684359.1	166460.3	1585068.
SMP	AD06031-007	70	1498256.	668264.7	182746.8	* 1521233.
SMP	AD06031-009	71	1381599.	617231.7	144395.1	1411913.
SMP	AD06031-012	72	1485853.	672594.2	155481.5	1522364.
SMP	RINSE	73	1341688.	694194.5	103236.9	1375044.
CCV	CCV V-285832	74	1485143.	743839.3	110371.5	1524603.
CCB	CCB V-285829	75	1306043.	668843.1	97578.50	1339151.
SMP	AD06031-014	76	1514673.	662190.3	160661.2	1551852.
SMP	AD06031-016	77	1504578.	693524.9	159861.7	1537831.
SMP	AD06031-018	78	1550040.	698484.6	163080.4	1596488.
SMP	AD06031-020	79	1447214.	665100.2	147547.8	1475755.
SMP	RINSE	80	1346523.	687631.9	99549.88	1374604.
CCV	CCV V-285832	81	1361799.	685318.3	100333.5	1385674.
CCB	CCB V-285829	82	1327347.	677638.0	98418.48	1351986.

* Indicates Internal Standard Area outside of limits

TCLP Metal Data

Form1
Inorganic Analysis Data Sheet

Sample ID:	AD05999-001	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SS-1	Units:	MG/L	Lab Code:		Sdg No:	
Matrix:	TCLP	Date Rec:	8/16/2018	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.10	ND	1	50	50	08/21/18	70599	T22981A4	94	P	PEICP4A
7440-39-3	Barium	0.25	ND	1	50	50	08/21/18	70599	T22981A4	94	P	PEICP4A
7440-43-9	Cadmium	0.050	ND	1	50	50	08/21/18	70599	T22981A4	94	P	PEICP4A
7440-47-3	Chromium	0.10	ND	1	50	50	08/21/18	70599	T22981A4	94	P	PEICP4A
7439-92-1	Lead	0.050	ND	1	50	50	08/21/18	70599	T22981A4	94	P	PEICP4A
7439-97-6	Mercury	0.00050	ND	1	25	25	08/23/18	70599	H22988T	19	CV	HGCV3A
7782-49-2	Selenium	0.10	ND	1	50	50	08/21/18	70599	T22981A4	94	P	PEICP4A
7440-22-4	Silver	0.050	ND	1	50	50	08/21/18	70599	T22981A4	94	P	PEICP4A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 70599 (1) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 70599 (1) Units: MG/L Lab Code:
Matrix: TCLP
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	1.0	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-36-0	Antimony	0.070	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-38-2	Arsenic	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-39-3	Barium	0.25	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-41-7	Beryllium	0.012	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-42-8	Boron	0.20	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-43-9	Cadmium	0.050	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-70-2	Calcium	5.0	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-47-3	Chromium	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-48-4	Cobalt	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-50-8	Copper	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7439-89-6	Iron	1.0	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7439-92-1	Lead	0.050	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7439-95-4	Magnesium	5.0	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7439-96-5	Manganese	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7439-97-6	Mercury	0.00050	ND	1	25	25	08/23/18	70599	H22988T	11	CV	HGCV3A
7439-98-7	Molybdenum	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-02-0	Nickel	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7782-49-2	Selenium	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-21-3	Silicon	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-22-4	Silver	0.050	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-28-0	Thallium	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-31-5	Tin	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-32-6	Titanium	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-62-2	Vanadium	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A
7440-66-6	Zinc	0.10	ND	1	50	50	08/21/18	70599	T22981A4	80	P	PEICP4A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

FORM 2
(ICV/CCV Summary)

Date Analyzed: 08/21/18
Data File: T22981A4
Prep Batch: 70599
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-285444-5	Rec	CCV V-285444-11	Rec	CCV V-285444-21	Rec	CCV V-285444-31	Rec	CCV V-285444-41	Rec	CCV V-285444-49	Rec	CCV V-285444-56	Rec	CCV V-285444-67	Rec
Arsenic	.5/.5	0.50037	100	0.51685	103	0.51188	102	0.51795	104	0.52503	105	0.51775	104	0.50997	102	0.50146	100
Barium	.5/.5	0.49839	100	0.50702	101	0.50576	101	0.50974	102	0.51231	102	0.51067	102	0.50895	102	0.50632	101
Beryllium	.5/.5	0.50106	100	0.50416	101	0.51863	104	0.51438	103	0.51736	103	0.51493	103	0.51330	103	0.51433	103
Cadmium	.5/.5	0.51395	103	0.52056	104	0.51599	103	0.52030	104	0.52148	104	0.52432	105	0.52224	104	0.51863	104
Chromium	.5/.5	0.50676	101	0.51304	103	0.50925	102	0.51101	102	0.51334	103	0.51217	102	0.50788	102	0.50679	101
Copper	.5/.5	0.50864	102	0.51769	104	0.51751	104	0.51871	104	0.51873	104	0.51747	103	0.51524	103	0.51553	103
Lead	.5/.5	0.50733	101	0.51642	103	0.50357	101	0.51030	102	0.51303	103	0.51809	104	0.51374	103	0.50776	102
Nickel	.5/.5	0.50489	101	0.51684	103	0.51578	103	0.52235	104	0.52699	105	0.52894	106	0.52517	105	0.52224	104
Selenium	.5/.5	0.47044	94	0.51812	104	0.51856	104	0.52946	106	0.52441	105	0.51840	104	0.54371	109	0.52190	104
Silver	0.1/0.1	0.10133	101	0.10388	104	0.10424	104	0.10509	105	0.10540	105	0.10449	104	0.10480	105	0.10505	105
Zinc	.5/.5	0.50500	101	0.51422	103	0.51453	103	0.51808	104	0.52218	104	0.51967	104	0.51835	104	0.51333	103

Analyte	ICV/CCV Amt	ICV V-285444-5	Rec	CCV V-285444-78	Rec	CCV V-285444-90	Rec	CCV V-285444-100	Rec	CCV V-285444-108	Rec		Rec		Rec		Rec
Arsenic	.5/.5	0.50037	100	0.51771	104	0.51449	103	0.51090	102	0.52286	105						
Barium	.5/.5	0.49839	100	0.50525	101	0.51302	103	0.50727	101	0.50865	102						
Beryllium	.5/.5	0.50106	100	0.51636	103	0.51714	103	0.51561	103	0.51521	103						
Cadmium	.5/.5	0.51395	103	0.51926	104	0.52292	105	0.52088	104	0.52309	105						
Chromium	.5/.5	0.50676	101	0.50408	101	0.51376	103	0.50926	102	0.50969	102						
Copper	.5/.5	0.50864	102	0.51138	102	0.51757	104	0.51323	103	0.51778	104						
Lead	.5/.5	0.50733	101	0.51198	102	0.51517	103	0.51397	103	0.51089	102						
Nickel	.5/.5	0.50489	101	0.52296	105	0.52839	106	0.52443	105	0.52399	105						
Selenium	.5/.5	0.47044	94	0.53962	108	0.51430	103	0.53393	107	0.53888	108						
Silver	.5/.5	0.10133	101	0.10413	104	0.10562	106	0.10342	103	0.10446	104						
Zinc	.5/.5	0.50500	101	0.51651	103	0.52095	104	0.51901	104	0.51804	104						

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 08/21/18
Data File: T22981A4
Prep Batch: ~~69144~~ 70599 CB 8/29/18
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-282467	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-285234	Recovery	Low Limit	High Limit
Molybdenum	0.1	0.0987657	99	80	120	20	18.4795	92	90	110
Aluminum	1.0	0.992878	99	80	120	500	550.894	110	90	110
Arsenic	0.1	0.109099	109	80	120	20	22.6807	113 a	90	110
Barium	0.25	0.245755	98	80	120	20	19.4548	97	90	110
Beryllium	0.012	0.0128055	107	80	120	2	1.99446	100	90	110
Calcium	5.0	4.98433	100	80	120	500	496.252	99	90	110
Cadmium	0.05	0.0483893	97	80	120	10	10.8875	109	90	110
Cobalt	0.1	0.100415	100	80	120	20	18.5224	93	90	110
Chromium	0.1	0.0997576	100	80	120	20	19.3087	97	90	110
Copper	0.1	0.0998186	100	80	120	10	11.0025	110	90	110
Iron	1.0	0.989316	99	80	120	400	383.290	96	90	110
Potassium	NA	12.2343		80	120	500	4677.05	935 a	90	110
Silver	0.05	0.0508846	102	80	120	0.8	0.896001	112 a	90	110
Manganese	0.1	0.0971326	97	80	120	10	9.95637	100	90	110
Silicon	0.1	0.0892673	89	80	120	25	24.2371	97	90	110
Sodium	NA	23.4009		80	120	1000	1354.92	135 a	90	110
Nickel	0.1	0.0998056	100	80	120	20	17.7725	89 a	90	110
Lead	0.05	0.0553173	111	80	120	20	19.5731	98	90	110
Antimony	0.07	0.0745821	107	80	120	20	21.2359	106	90	110
Selenium	0.1	0.0802401	80	80	120	20	22.5477	113 a	90	110
Tin	0.1	0.101088	101	80	120	10	9.10820	91	90	110
Titanium	0.1	0.102007	102	80	120	10	10.4599	105	90	110
Thallium	0.1	0.0965567	97	80	120	20	18.4047	92	90	110
Vanadium	0.1	0.105003	105	80	120	20	20.3782	102	90	110
Zinc	0.1	0.101409	101	80	120	10	9.61217	96	90	110
Boron	0.2	0.231638	116	80	120	5	3.74050	75 a	90	110
Magnesium	5.0	5.18098	104	80	120	500	514.723	103	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 08/23/18
Data File: H22988T
Prep Batch: 70599
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV (2)-9	Rec	CCV-21	Rec	CCV-32	Rec	Rec	Rec	Rec	Rec	Rec
Mercury	20/10	18.64000	93	9.43100	94	9.17300	92					

Notes: a-indicates analyte failed the ICV limits for 6010D, 6020B
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020B, Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105) 6010D/6020B/200.8 (90-110)
CCV- 200.7/200.8/6010D/245.1, Hg 7470A/ 7471B (90-110)

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 08/21/18
Data File: T22981A4
Prep Batch: 70599
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-283171-6	CCB V-283171-12	CCB V-283171-22	CCB V-283171-32	CCB V-283171-42	CCB V-283171-50	CCB V-283171-57	CCB V-283171-68
Arsenic	.05 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U
Barium	.125 U	.25 U	.25 U	.25 U	.25 U	.25 U	.25 U	.25 U
Beryllium	.006 U	.012 U	.012 U	.012 U	.012 U	.012 U	.012 U	.012 U
Cadmium	.025 U	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U
Chromium	.05 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U
Copper	.05 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U
Lead	.025 U	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U
Nickel	.05 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U
Selenium	.05 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U
Silver	.025 U	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U	.05 U
Zinc	.05 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U	.1 U

8 CB 9/5/18

Analyte	CCB V-283171-79	CCB V-283171-91	CCB V-283171-101	CCB V-283171-109	MB 70599 (1)-80	EF-V-285748-88	EF-V-283958-89
Arsenic	.1 U	.1 U	.1 U	.1 U	.05 U	.1 U	.1 U
Barium	.25 U	.25 U	.25 U	.25 U	.13 U	.25 U	.25 U
Beryllium	.012 U	.012 U	.012 U	.012 U	.006 U	.012 U	.012 U
Cadmium	.05 U	.05 U	.05 U	.05 U	.025 U	.05 U	.05 U
Chromium	.1 U	.1 U	.1 U	.1 U	.05 U	.1 U	.1 U
Copper	.1 U	.1 U	.1 U	.1 U	.05 U	.1 U	.1 U
Lead	.05 U	.05 U	.05 U	.05 U	.025 U	.05 U	.05 U
Nickel	.1 U	.1 U	.1 U	.1 U	.05 U	.1 U	.1 U
Selenium	.1 U	.1 U	.1 U	.1 U	.05 U	.1 U	.1 U
Silver	.05 U	.05 U	.05 U	.05 U	.025 U	.05 U	.05 U
Zinc	.1 U	.1 U	.1 U	.1 U	.05 U	.1 U	.1 U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 08/23/18
Data File: H22988T
Prep Batch: 70599
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB-10	CCB-22	CCB-33	MB 70599 (1)-11	EF V-285748-30	EF V-283958-31		
Mercury	.5 U	.5 U	.5 U	.5 U	.5 U	.5 U		

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 08/21/18
Data File: T22981A4
Prep Batch: 70599
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: PEICP4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8081617

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-285079-10	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	500	504.236	101							
Arsenic	0	U								
Barium	0	U								
Beryllium	0	U								
Cadmium	0	U								
Calcium	500	465.443	93							
Chromium	0	U								
Copper	0	U								
Iron	200	176.705	88							
Lead	0	U								
Magnesium	500	497.23	99							
Nickel	0	U								
Selenium	0	U								
Silver	0	U								
Zinc	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 70599

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: TCLP SampleID: LCSW MR 70599

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	70599	1	T22981A4	82	0.5401	0.50	108		80	120
Barium	70599	1	T22981A4	82	0.5394	0.50	108		80	120
Cadmium	70599	1	T22981A4	82	0.5430	0.50	109		80	120
Chromium	70599	1	T22981A4	82	0.5310	0.50	106		80	120
Lead	70599	1	T22981A4	82	0.5261	0.50	105		80	120
Mercury	70599	1	H22988T	13	10.2600	10	103		80	120
Selenium	70599	1	T22981A4	82	0.5586	0.50	112		80	120
Silver	70599	1	T22981A4	82	0.1077	0.100	108		80	120

TxtQcType: LCS Matrix: TCLP SampleID: LCSW 70599

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	70599	1	T22981A4	81	0.5174	0.50	103		80	120
Barium	70599	1	T22981A4	81	0.5283	0.50	106		80	120
Cadmium	70599	1	T22981A4	81	0.5350	0.50	107		80	120
Chromium	70599	1	T22981A4	81	0.5226	0.50	105		80	120
Lead	70599	1	T22981A4	81	0.5197	0.50	104		80	120
Mercury	70599	1	H22988T	12	10.3500	10	104		80	120
Selenium	70599	1	T22981A4	81	0.5163	0.50	103		80	120
Silver	70599	1	T22981A4	81	0.1055	0.100	106		80	120

TxtQcType: MS Matrix: TCLP SampleID: AD05993-014

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	70599	1	T22981A4	85	T22981A4	83	0.5636	0.1U	0.50	113		50	
Barium	70599	1	T22981A4	85	T22981A4	83	0.8793	0.3703	0.50	102		50	
Cadmium	70599	1	T22981A4	85	T22981A4	83	0.5534	0.05U	0.50	111		50	
Chromium	70599	1	T22981A4	85	T22981A4	83	0.5061	0.1U	0.50	101		50	
Lead	70599	1	T22981A4	85	T22981A4	83	0.4973	0.05U	0.50	99		50	
Mercury	70599	1	H22988T	16	H22988T	14	10.3800	0.50U	10	104		50	
Selenium	70599	1	T22981A4	85	T22981A4	83	0.5866	0.1U	0.50	117		50	
Silver	70599	1	T22981A4	85	T22981A4	83	0.1094	0.05U	0.100	109		50	

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 70599

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: TCLP SampleID: AD05993-014

Analyte	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Arsenic	1	T22981A4	86	T22981A4	83	0.5370	0.1U	0.5	107		75	125
Barium	1	T22981A4	86	T22981A4	83	0.8539	0.3703	0.5	97		75	125
Cadmium	1	T22981A4	86	T22981A4	83	0.5428	0.05U	0.5	109		75	125
Chromium	1	T22981A4	86	T22981A4	83	0.5040	0.1U	0.5	101		75	125
Lead	1	T22981A4	86	T22981A4	83	0.4961	0.05U	0.5	99		75	125
Selenium	1	T22981A4	86	T22981A4	83	0.6018	0.1U	0.5	120		75	125
Silver	1	T22981A4	86	T22981A4	83	0.0962	0.05U	0.1	96		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 70599

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: TCLP SampleID: LCSW MR 70599

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	70599	T22981A4	82	T22981A4	81	0.5401	0.5174	4.3	20
Barium	70599	T22981A4	82	T22981A4	81	0.5394	0.5283	2.1	20
Cadmium	70599	T22981A4	82	T22981A4	81	0.5430	0.5350	1.5	20
Chromium	70599	T22981A4	82	T22981A4	81	0.5310	0.5226	1.6	20
Lead	70599	T22981A4	82	T22981A4	81	0.5261	0.5197	1.2	20
Mercury	70599	H22988T	13	H22988T	12	10.2600	10.3500	.87	20
Selenium	70599	T22981A4	82	T22981A4	81	0.5586	0.5163	7.9	20
Silver	70599	T22981A4	82	T22981A4	81	0.1077	0.1055	2	20

TxtQcType: MR Matrix: TCLP SampleID: AD05993-014

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Arsenic	70599	T22981A4	84	T22981A4	83	0.1U	0.1U	---	20
Barium	70599	T22981A4	84	T22981A4	83	0.3603	0.3703	2.8	20
Cadmium	70599	T22981A4	84	T22981A4	83	0.05U	0.05U	---	20
Chromium	70599	T22981A4	84	T22981A4	83	0.1U	0.1U	---	20
Lead	70599	T22981A4	84	T22981A4	83	0.05U	0.05U	---	20
Mercury	70599	H22988T	15	H22988T	14	0.50U	0.50U	---	20
Selenium	70599	T22981A4	84	T22981A4	83	0.1U	0.1U	---	20
Silver	70599	T22981A4	84	T22981A4	83	0.05U	0.05U	---	20

TxtQcType: SD Matrix: TCLP SampleID: AD05993-014

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Arsenic	70599	T22981A4	87	T22981A4	83	5	0.0070	-0.0113	---		10
Barium	70599	T22981A4	87	T22981A4	83	5	0.0791	0.3703	6.8		10
Cadmium	70599	T22981A4	87	T22981A4	83	5	-0.0003	0.0008	---		10
Chromium	70599	T22981A4	87	T22981A4	83	5	0.0040	0.0110	82	c	10
Lead	70599	T22981A4	87	T22981A4	83	5	-0.0105	-0.0009	---		10
Selenium	70599	T22981A4	87	T22981A4	83	5	0.0084	-0.0260	---		10
Silver	70599	T22981A4	87	T22981A4	83	5	0.0009	0.0018	---		10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: (3010A) 3005A 3050B 200.7/200.8 OTHER_____

Batch No.: 22987 Analyst: BA

QC Number: 70595 Prep Date: 8/21/18

Matrix: TCLP Reviewed By: [illegible]

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50ml	50ml				–	
LCS						–	
LCSD						–	
1. 05993-014					V-285748	05993-014	Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate							
MR 05993-014							
MS 05993-014							Balance used: N/A
MSD							Pipettes used: 159, 157
2. 06006-002					V-283958	06006-002	
3. 06016-002					V-285748	06016-002	Hot Block used: 1
4. 05999-001							
5. 06002-001							
6. -002							
7. 06013-001							
8. 06027-001							
9. 06046-005							
10. 06045-002							
11. 05907-002							
12. 06063-002							
13. 06064-001							
14. -002							
15. -003							
16. V-285748	8/22/18						
17. V-283958					V-283958		
18.							
19.							
20.							

Hot Plate Temperature: 92-4C (90-95° C) Start Time: 10:00 End Time: 14:20

	Volume mL	Lot #
LCSD	0.25ml	V-11604, 11603
LLLCSD		V-
MSD	0.25ml	V-11604, 11603
LLMSD	0.25ml	V-285748

Acid	Vol mL	Lot#
HNO_3	3ml	V-11660
HCl		V-
H_2O_2		V-

Acid	Vol mL	Lot#
1:1 HNO_3		V-
1:1 HCl	5ml	V-280003

Relinquished By BA Date 8/21/18

Received By [illegible] Date 08/21/2018

T:\QC\FORMS\LOGBOOK FORMS\METALS\ICP sample prep log 2018 DOD.DOC

HG SAMPLE PREPARATION LOG

Hampton-Clarke/Veritech

ANALYTICAL METHOD: 245.1 7470A 7471B OTHER_____

Batch No.:* 22987

QC Number: 70599

Matrix: TCLP

Analyst: RA

Prep Date: 8/21/18

Review By: [illegible]

LAB ID#	MERCURY INITIAL	MERCURY FINAL	COMMENTS	STANDARDS
Method blank	25ml	25ml		CAL CURVE BLK 0ppb V- 285986
LCS	0.169			
LCSD				STD 0.2 ppb V- 285987
MB 05993-014				STD 0.5 ppb V- 285988
MR 05993-014				STD 1.0 ppb V- 285989
MS 05993-014				STD 2.0 ppb V- 285990
MSD 05993-014				STD 5.0 ppb V- 285991
06006-002				STD 10.0 ppb V- 285992
06016-002				STD 25.0 ppb V- 285993
05995-001				ICV 10.0 ppb V- 285984
06018-001				CCV 20.0 ppb V- 285985
06027-001				
06046-005				
06045-002				Balance used: N/A
06062-010				Pipettes used: 121, 150, 135
06064-001				
-002				Hot Block used: 7
-003				
V-285743				
V-283958				

Lot Numbers	Volume (mL)	Acid	Volume (mL)	Lot #
$KMnO_4$: V- 284158	2.75ml	HNO3	0.628ml	V- 11509
$K_2S_2O_8$: V- 284159	2ml	HCl		V-
NH4OH: V- 284160	1.5ml	H2SO4	1.28ml	V- 11491
		Aqua Regia		V-

**Block Temp.: 92.2 °C

Time in Block: 11:30

Time Out of Block: 13:30

Spike Volume & Lot #

☐ LCS V-285972 0.15ml / 0.25 ml

☐ MS V-285972 0.250 ml

☐ Standards/Control Batch B- 25562

Start time: 10:00 End Time: 13:30

**Temperature 245.1 / 7470A: 90-95C 7471B: 92-98C

Relinquished By: RA

*25 mLs of each standard was digested with this batch using the same reagents and at the same time as the above samples. The preparation of each standard may be referenced in Veriprog using the standard batch number and the corresponding V #s.

HG PREP 2016

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP4A\T22981A4.txt

Analysis Date: 08/21/18

Instrument: PEICP4A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-283171	1	CAL	14:05	1							V-283171(ICB/CCB)
CALST2 V-282467	1	CAL	14:09	2							V-282467(LLICV/CCV leachate)
CALST3 V-285445	1	CAL	14:13	3							V-285445(ICS3 - Middle Std)
CALST4 V-285446	1	CAL	14:18	4							V-285446(ICS4 High std)
ICV V-285444	1	ICV	14:23	5							V-285444(CCV)
ICB V-283171	1	ICB	14:27	6							V-283171(ICB/CCB)
LRS V-285234	1	LRS	14:31	7	PB-TCLP	TCLP	TCLP	SW846	69144		V-285234(LRS)
ICS3 V-285445	1	ICS	14:36	8							V-285445(ICS3 - Middle Std)
LLICV V-282467	1	LLICV	14:40	9	PB-TCLP	TCLP	TCLP	SW846	69144		V-282467(LLICV/CCV leachate)
ICSA V-285079	1	ICSA	14:44	10							V-285079(ICSA)
CCV V-285444	1	CCV	14:50	11							V-285444(CCV)
CCB V-283171	1	CCB	14:54	12							V-283171(ICB/CCB)
MB 69144 (1)	1	MB	14:58	13	PB-TCLP	TCLP	TCLP	SW846	69144		()
LCSW 69144	1	LCS	15:02	14	PB-TCLP	TCLP	TCLP	SW846	69144		()
LCSW MR 69144	1	LCS	15:06	15	PB-TCLP	TCLP	TCLP	SW846	69144		()
AD06012-001	1	SMP	15:10	16	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn NOT reported	()
AD06012-001	1	MR	15:15	17	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn NOT reported	()
AD06012-001	1	MS	15:21	18	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn NOT reported (Zn > LR)	()
AD06012-001	1	PS	15:26	19	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn NOT reported (Zn > LR)	()
AD06012-001	5	SD	15:31	20	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn NOT reported	()
CCV V-285444	1	CCV	15:36	21							V-285444(CCV)
CCB V-283171	1	CCB	15:40	22							V-283171(ICB/CCB)
AD05963-001	1	SMP	15:44	23	METALS-TCLP	TCLP	TCLP	SW846	69144		()
AD05967-010	1	SMP	15:49	24	METALS-TCLP	TCLP	TCLP	SW846	69144		()
AD05967-012	1	SMP	15:53	25	METALS-TCLP	TCLP	TCLP	SW846	69144		()
AD06011-001	1	SMP	15:58	26	METALS-TCLP	TCLP	TCLP	SW846	69144	Se NOT reported (Si > LR)	()
AD06011-002	1	SMP	16:02	27	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn NOT reported (Zn > LR)	()
EF-V-285748	1	EF	16:07	28	PB-TCLP	TCLP	TCLP	SW846	69144		V-285748(EF-1 WARNING)
EF-V-283958	1	EF	16:11	29	PB-TCLP	TCLP	TCLP	SW846	69144		V-283958(EF-2 WARNING)
AD06011-001	5	SMP	16:15	30	METALS-TCLP	TCLP	TCLP	SW846	69144	Se reported	()
CCV V-285444	1	CCV	16:19	31							V-285444(CCV)
CCB V-283171	1	CCB	16:23	32							V-283171(ICB/CCB)
AD05941-001	1	SMP	16:28	33	METALS-TCLP	TCLP	TCLP	SW846	69144	Ni (over LR); Se (Si >LR) NOT reported	()
AD05941-004	1	SMP	16:32	34	METALS-TCLP	TCLP	TCLP	SW846	69144	Ni (over LR); Se (Si >LR) NOT reported	()
AD05963-001	1	NA	16:37	35	METALS-TCLP	TCLP	TCLP	SW846	69144	Already analysed (see sequence 23)	()
AD05941-001	10	SMP	16:41	36	METALS-TCLP	TCLP	TCLP	SW846	69144	Ni, Se reported	()
AD05941-004	10	SMP	16:45	37	METALS-TCLP	TCLP	TCLP	SW846	69144	Ni, Se reported	()
AD05850-002	1	SMP	16:49	38	PB-TCLP	TCLP	TCLP	SW846	69144		()
AD05850-004	1	SMP	16:53	39	PB-TCLP	TCLP	TCLP	SW846	69144		()
AD05850-014	1	SMP	16:57	40	PB-TCLP	TCLP	TCLP	SW846	69144		()
CCV V-285444	1	CCV	17:02	41							V-285444(CCV)
CCB V-283171	1	CCB	17:06	42							V-283171(ICB/CCB)
AD05965-002	1	SMP	17:10	43	METALS-TCLP	TCLP	TCLP	SW846	69144		()
AD05965-004	1	SMP	17:14	44	METALS-TCLP	TCLP	TCLP	SW846	69144		()
AD05965-006	1	SMP	17:18	45	METALS-TCLP	TCLP	TCLP	SW846	69144		()
AD05965-008	1	SMP	17:22	46	METALS-TCLP	TCLP	TCLP	SW846	69144		()
AD05965-010	1	SMP	17:26	47	METALS-TCLP	TCLP	TCLP	SW846	69144		()
AD05965-012	1	SMP	17:31	48	METALS-TCLP	TCLP	TCLP	SW846	69144		()
CCV V-285444	1	CCV	17:35	49							V-285444(CCV)
CCB V-283171	1	CCB	17:39	50							V-283171(ICB/CCB)
AD06012-001	2	SMP	17:43	51	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn reported	()
AD06012-001	2	MR	17:47	52	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn reported	()
AD06012-001	2	MS	17:51	53	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn reported	()
AD06012-001	1	PS	17:56	54	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn reported	()
AD06012-001	10	SD	18:01	55	METALS-TCLP	TCLP	TCLP	SW846	69144	Zn reported	()
CCV V-285444	1	CCV	18:05	56							V-285444(CCV)
CCB V-283171	1	CCB	18:09	57							V-283171(ICB/CCB)
MB 70594 (1)	1	MB	18:13	58	METALS-TCLP	TCLP	TCLP	SW846	70594		()
LCSW 70594	1	LCS	18:17	59	METALS-TCLP	TCLP	TCLP	SW846	70594		()

Comments/Reviewedby:

olufemi
192.168.1.76 8/21/2018 5:24:09 PM

RUN IS OK
All elements reported

8/23/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP4A\T22981A4.txt

Analysis Date: 08/21/18

Instrument: PEICP4A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
LCSW MR 70594	1	LCS	18:21	60	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-002	1	SMP	18:25	61	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-002	1	MR	18:29	62	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-002	1	MS	18:34	63	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-002	1	PS	18:38	64	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-002	5	SD	18:42	65	METALS-TCLP	TCLP	TCLP	SW846	70594		0
EF-V-285248	1	EF	18:47	66	METALS-TCLP	TCLP	TCLP	SW846	70594		V-285248(EF-1 WARNING)
CCV V-285444	1	CCV	18:51	67							V-285444(CCV)
CCB V-283171	1	CCB	18:55	68							V-283171(ICB/CCB)
AD05984-004	1	SMP	18:59	69	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-006	1	SMP	19:03	70	METALS-TCLP	TCLP	TCLP	SW846	70594	Se NOT reported (Si > LR)	0
AD05984-008	1	SMP	19:07	71	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-006	2	SMP	19:11	72	METALS-TCLP	TCLP	TCLP	SW846	70594	Se reported	0
AD05984-011	1	SMP	19:15	73	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-015	1	SMP	19:19	74	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-016	1	SMP	19:24	75	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-017	1	SMP	19:28	76	METALS-TCLP	TCLP	TCLP	SW846	70594		0
AD05984-019	1	SMP	19:32	77	METALS-TCLP	TCLP	TCLP	SW846	70594		0
CCV V-285444	1	CCV	19:36	78							V-285444(CCV)
CCB V-283171	1	CCB	19:40	79							V-283171(ICB/CCB)
MB 70599 (1)	1	MB	19:44	80	METALS-TCLP	TCLP	TCLP	SW846	70599		0
LCSW 70599	1	LCS	19:48	81	METALS-TCLP	TCLP	TCLP	SW846	70599		0
LCSW MR 70599	1	LCS	19:52	82	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD05993-014	1	SMP	19:56	83	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD05993-014	1	MR	20:00	84	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD05993-014	1	MS	20:05	85	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD05993-014	1	PS	20:09	86	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD05993-014	5	SD	20:13	87	METALS-TCLP	TCLP	TCLP	SW846	70599		0
EF-V-285743 78 OS 8/23/18	1	EF	20:17	88	METALS-TCLP	TCLP	TCLP	SW846	70599		V-285743(Hg AQ standard 2 ppb)
EF-V-283958	1	EF	20:21	89	METALS-TCLP	TCLP	TCLP	SW846	70599		V-283958(EF-2 WARNING)
CCV V-285444	1	CCV	20:25	90							V-285444(CCV)
CCB V-283171	1	CCB	20:29	91							V-283171(ICB/CCB)
AD06006-002	1	SMP	20:33	92	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD06016-002	1	SMP	20:38	93	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD05999-001	1	SMP	20:42	94	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD06002-001	1	SMP	20:46	95	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD06002-002	1	SMP	20:50	96	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD06018-001	1	SMP	20:54	97	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD06027-001	1	SMP	20:58	98	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD06046-005	1	SMP	21:02	99	METALS-TCLP	TCLP	TCLP	SW846	70599		0
CCV V-285444	1	CCV	21:06	100							V-285444(CCV)
CCB V-283171	1	CCB	21:10	101							V-283171(ICB/CCB)
AD06045-002	1	SMP	21:14	102	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD05907-010	1	SMP	21:19	103	PB-TCLP	TCLP	TCLP	SW846	70599		0
AD06063-002	1	SMP	21:23	104	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD06064-001	1	SMP	21:28	105	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD06064-002	1	SMP	21:32	106	METALS-TCLP	TCLP	TCLP	SW846	70599		0
AD06064-003	1	SMP	21:36	107	METALS-TCLP	TCLP	TCLP	SW846	70599		0
CCV V-285444	1	CCV	21:41	108							V-285444(CCV)
CCB V-283171	1	CCB	21:45	109							V-283171(ICB/CCB)

Comments/Reviewedby:

olufemi
192.168.1.76 8/21/2018 5:24:09 PM

RUN IS OK
All elements reported

8/23/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\HGCV3A\H22988T.txt

Analysis Date: 08/23/18 **Instrument:** HGCV3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
Calibration Blank	1	CAL	10:55	1							0
.2 PPB	1	CAL	10:56	2							0
.5 PPB	1	CAL	10:58	3							0
1 PPB	1	CAL	10:59	4							0
2 PPB	1	CAL	11:00	5							0
5 PPB	1	CAL	11:02	6							0
10 PPB	1	CAL	11:03	7							0
25 PPB	1	CAL	11:05	8							0
ICV (2)	1	ICV	11:06	9							0
ICB	1	ICB	11:08	10							0
MB 70599 (1)	1	MB	11:10	11	HG-TCLP	TCLP	TCLP	SW846	70599		0
LCS 70599	1	LCS	11:11	12	HG-TCLP	TCLP	TCLP	SW846	70599		0
LCS MR 70599	1	LCS	11:13	13	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD05993-014	1	SMP	11:14	14	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD05993-014	1	MR	11:16	15	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD05993-014	1	MS	11:17	16	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD06006-002	1	SMP	11:19	17	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD06016-002	1	SMP	11:20	18	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD05999-001	1	SMP	11:21	19	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD06018-001	1	SMP	11:23	20	HG-TCLP	TCLP	TCLP	SW846	70599		0
CCV	1	CCV	11:24	21							0
CCB	1	CCB	11:26	22							0
AD06027-001	1	SMP	11:27	23	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD06046-005	1	SMP	11:28	24	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD06045-002	1	SMP	11:30	25	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD06063-002	1	SMP	11:31	26	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD06064-001	1	SMP	11:32	27	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD06064-002	1	SMP	11:34	28	HG-TCLP	TCLP	TCLP	SW846	70599		0
AD06064-003	1	SMP	11:35	29	HG-TCLP	TCLP	TCLP	SW846	70599		0
EF V-285748	1	EF	11:36	30	HG-TCLP	TCLP	TCLP	SW846	70599		V-285748(EF-1 WARNING)
EF V-283958	1	EF	11:38	31	HG-TCLP	TCLP	TCLP	SW846	70599		V-283958(EF-2 WARNING)
CCV	1	CCV	11:39	32							0
CCB	1	CCB	11:41	33							0

Comments/Reviewedby:

carmela
192.168.1.120 8/23/2018 11:50:41 AM

OK

8/23/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

V-286189

Wet Chemistry Data

VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD05999-001
Matrix Soil
Client SampleID: SS-1

Project Number: 8081617
Received Date: 8/16/2018
Collect Date: 8/15/2018

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Cyanide	CN-S-9012	1	ND	mg/Kg	0.25	08/17/18	08/17/18
Sulfur Content	SULFUR	1	ND	%	0.15	08/23/18	08/23/18

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 8081617**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD05999-001	SS-1	Soil	1	95	Percent			08/17/18	08/16/18	08/15/18

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-8271

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD05973-001	95	94.91115	Percent	1.35	13.73	13.11	08/17/18	jessica	2.1	5
Sample	AD05973-001	93	92.90484	Percent	1.35	13.33	12.48	08/17/18	jessica		
Sample	AD05973-002	90	90.19608	Percent	1.35	10.53	9.62	08/17/18	jessica		
Sample	AD05973-005	89	88.70968	Percent	1.35	14.99	13.45	08/17/18	jessica		
Sample	AD05973-007	92	92.20404	Percent	1.36	11.75	10.94	08/17/18	jessica		
Sample	AD05973-008	92	91.74018	Percent	1.33	13.80	12.77	08/17/18	jessica		
Sample	AD05973-009	97	97.34727	Percent	1.35	13.79	13.46	08/17/18	jessica		
Sample	AD05973-010	99	99.00990	Percent	1.35	12.46	12.35	08/17/18	jessica		
Sample	AD05973-011	96	95.76523	Percent	1.37	14.83	14.26	08/17/18	jessica		
Sample	AD05973-012	99	98.93404	Percent	1.35	16.36	16.20	08/17/18	jessica		
Sample	AD05973-013	95	94.94557	Percent	1.36	14.22	13.56	08/17/18	jessica		
Sample	AD05973-014	88	87.66667	Percent	1.36	13.36	11.88	08/17/18	jessica		
Sample	AD05991-005	87	86.88073	Percent	1.35	12.25	10.81	08/17/18	jessica		
Sample	AD05991-006	89	88.95522	Percent	1.34	11.39	10.27	08/17/18	jessica		
Sample	AD05999-001	95	95.16393	Percent	1.33	13.53	12.95	08/17/18	jessica		
Sample	AD06009-001	86	86.17157	Percent	1.35	9.16	8.07	08/17/18	jessica		
Sample	AD06009-002	86	86.00746	Percent	1.35	12.07	10.57	08/17/18	jessica		
Sample	AD06009-003	76	76.22222	Percent	1.33	10.33	8.19	08/17/18	jessica		
Sample	AD06009-004	80	79.66102	Percent	1.35	13.74	11.21	08/17/18	jessica		
Sample	AD06009-005	77	76.51515	Percent	1.36	9.28	7.42	08/17/18	jessica		
Sample	AD06009-006	75	74.66987	Percent	1.35	9.68	7.57	08/17/18	jessica		

* - Indicates Failed Rpd Criteria

Sulfur ASTM D1552

Batch #	202					Sulfur Soil Calculation Results							
analyst	DP												
date	8/23/2018												
							Theoretical Value (%)	Result(%)	% REC	Limits (%)	Flags		
						LCS	2.53	2.58	102	75-125			
						MS	2.66	2.71	102	75-125			
						MSD	2.66	2.69	101	75-125			
		0.139		Sample				ND	RPD				
				Sample Dup				ND	#VALUE!	20			
				MS				2.71	RPD				
				MSD				2.69	0	20			

	Samples #	weight (g)	% (average)	Solid Factor	Dilution factor	Sulfur (%)	RL(%)	Prep. Date	Prep By	Analyzed Date	Analyzed By	% Recovery	True value
	ICV	0.2507	2.57	1.00	1	2.57000	0.1390	8/23/2018	DP/JW	8/23/2018	DP/JW	102	2.53
	ICB	1.0000	0.00524	1.00	1	0.00524	0.1390	8/23/2018	DP/JW	8/23/2018	DP/JW		
	MB	1.0000	0.00403	1.00	1	0.00403	0.1390	8/23/2018	DP/JW	8/23/2018	DP/JW		
	LCS (V-11549)	0.2508	2.58	1.00	1	2.58000	0.1390	8/23/2018	DP/JW	8/23/2018	DP/JW	102	2.53
	AD05999-001	0.2502	0.0207	0.95	1	0.02179	0.1463	8/23/2018	DP/JW	8/23/2018	DP/JW		
	AD05999-001 DUP	0.2505	0.0196	0.95	1	0.02063	0.1463	8/23/2018	DP/JW	8/23/2018	DP/JW		
	AD05999-001 MS	0.2511	2.57	0.95	1	2.70526	0.1463	8/23/2018	DP/JW	8/23/2018	DP/JW		
	AD05999-001 MSD	0.2511	2.56	0.95	1	2.69474	0.1463	8/23/2018	DP/JW	8/23/2018	DP/JW		
	AD06030-012	0.2508	0.0789	0.89	1	0.08865	0.1562	8/23/2018	DP/JW	8/23/2018	DP/JW		
	CCV(V-11549)	0.2502	2.4800	1.00	1	2.48	0.1390	8/23/2018	DP/JW	8/23/2018	DP/JW	98	2.53
	CCB	1.0000	0.00363	1.00	1	0.00363	0.1390	8/23/2018	DP/JW	8/23/2018	DP/JW		

JW 8/29/18

MS/MSD/DUP Recovery

8081617 0232

Prep Batch: S-2009 Sample ID: AD05999-001
Method: EPA 9012B Matrix: Soil

Qc Type: DUP	Limits		DUP	Sample			MS/MSD/DUP			Non Spike		
Analyte	Rpd	Dil	Conc	Conc	Rpd	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Cyanide	35	1	0	0	NA		20180817113	15	08/17/18 12:03	20180817113	14	08/17/18 12:01

Qc Type: MS		Limits		MS	Sample			MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Dil	Conc	Conc	% Rec	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Cyanide	0.4	75-125	1	0.3662	0	92		20180817113	16	08/17/18 12:05	20180817113	14	08/17/18 12:01

Qc Type: MSD		Limits			MSD	Sample				MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Rpd	Dil	Conc	Conc	% Rec	Rpd	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Cyanide	0.4	75-125	20	1	0.3684	0	92	0.6		20180817113	17	08/17/18 12:08	20180817113	14	08/17/18 12:01

LCS Recoveries

			BatchRunID/RunID:====>	201808171130-12							
			QcBatchID:====>	LCSS-2009							
			Date/Time:====>	08/17/18 11:56							
			Analytical Method:====>	EPA 9012B							
			Matrix:====>	Soil		Soil		Soil		Soil		Soil
	EPA 9012B										
Analyte	Amt	Limits	Amt	Limits	% Rec	Flags	% Rec	Flags	% Rec	Flags	% Rec	Flags	% Rec	Flags
Cyanide	0.4	80-120			103									

Calibration Summary:

8081617 0234

Instrument: DA1
Analysis Meth: EPA 9012B

Analyte	Batch ID	Run#	Qc Type	Recov	Spk Amt	Limit
Cyanide	20180817113	9	ICV	106	0.4	85-115
Cyanide	20180817113	21	CCV	103	0.4	85-115
Cyanide	20180817113	33	CCV	103	0.4	85-115
Cyanide	20180817113	40	CCV	103	0.4	85-115

Blank Summary

Instrument: DA1

Qc Type: Method Blank Summary Prep Date: 8/17/18

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20180817113	8/17/18 11:54	MBS-2009	11	Cyanide	ND	0.020

Qc Type: ICB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20180817113	8/17/18 11:51	CCB	10	Cyanide	ND	0.020

Qc Type: CCB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20180817113	8/17/18 12:19	CCB	22	Cyanide	ND	0.020
20180817113	8/17/18 12:47	CCB	34	Cyanide	ND	0.020
20180817113	8/17/18 13:00	CCB	41	Cyanide	ND	0.020

Miscellaneous Data

ZERO HEADSPACE EXTRACTION- SAMPLE ENTRY

Sample ID	Vessel #	Initial Pressure	Final Pressure	Ext. Fluid #	Wt./Vol. Of Sample	Start Date	Start Time	Finish Date	Finish Time	Ext. Type *	pH of HCl preservial	Analyst(s)	Transfer To**	Transfer To**	Comments
AD05962 -025	#5	10	10	EF-A 116966	31.22g 500ml	8/15/18	PM 7:45	8/16/18	1:04	S	<2	JP			
-026	#7				20.10g ml										
-027	#18				20.88g 500ml										
-028	#21				20.55 mP8										
EF-1 285748	#17	10	10	EF-1 285748	500ml	8/21/18	AM 12:43	8/21/18	PM 8:43	T	<2	JP			
AD06006 -001	#22				25g 500ml										
AD05999 -001	#14														
AD06027 -001	#19														
AD06064 -001	#35														
-002	#08														
-003	#15														

*Ext. Type TCLP=T ASTM=A SPLP=S MEP = M
** Initials of person taking custody of extractions

0900

LEACHATE PREPARATION LOG
(TCLP, SPLP)

Start Date: 8/20/18 TIME: 16:40 Finish Date: 8/21/18

**TCLP Ext. Fluid #1 pH: 4.88 (criteria: 4.93 ± 0.05)
**TCLP Ext. Fluid #2 pH: 2.88 (criteria: 2.88 ± 0.05)
**SPLP Ext. Fluid #3 pH: 4.26 (criteria: 4.20 ± 0.05)

Sample #	pH (units)	pH in HCL (units)	Final pH (units)	Ext. Fluid (number)	Wt./Vol of Sample (g or mL)	Start Time	Finish Time	Filter Time	Analyst (s)	Ext. Type*	Comments
05930-006	—	—	8.62	SPLP 285163	100g/2L	17:00	10:45	12:48	EK	P	Balance ID: 037 Organics only
-007			8.31					12:50			pH Meter ID: 838168
-013			8.46					12:39			Pipette ID: 152
SPLP 285163	4.26	—	10.16		2L			12:40			
05993-014	9.27	1.83	5.61	EF1 285748	100g/2L	18:30		11:50		T	Metals only.
06006-002	11.79	9.41	5.99	EF2 283958	150g/3L			11:20			Metals & Org.
06016-002	8.26	1.73	5.11	EF1 285748	100g/2L			11:57			Metals only
05999-001	7.11	1.61	5.06					11:32			
06002-001	10.33	1.53	5.81					11:34			
06002-002	2.57	—	4.89					11:35			
06018-001	9.12	1.75	5.27					11:43.			
06027-001	8.72	1.78	5.14		150g/3L			12:10			Metals & Org.
06046-005	9.81	1.82	5.62		100g/2L			12:32			Metals only.
06045-002	9.68	1.80	5.51					11:23			
05907-010	8.99	1.79	5.15					12:00			
06064-001	9.72	1.81	5.42		150g/3L			12:08			
-06064-002	9.76	1.81	5.58		150g/3L			12:20			Metals & Org.
-06064-003	9.94	1.83	5.61					12:23			
-06063-002	9.95	1.85	5.67		100g/2L			12:30.			
EF1 285748	4.89	—	5.00		3L			11:10			
EF2 283958	2.88	—	3.00	EF2 283958				11:12			

* Ext. Type: TCLP = T (Method 1311) LAMP=L (Methods 1311 / ANSI/NEMA C78.LL 1256-2003)
SPLP = P (Method 1312) MEP=M (Method 1320)
ZHE = Z (Method 1311/1312)

** The pH of the extraction fluid must be checked prior to use and must be within limits specified above

80816170238

Subcontracted Data

This is the last page of the data generated by Hampton-Clarke.
The following pages were submitted to HC by subcontracted laboratories.

ANALYTICAL REPORT

Job Number: 460-162840-1

Job Description: 8081617

For:
Hampton-Clarke Veritech
175 Rt 46 West
Fairfield, NJ 07004

Attention: Sub Data Results

Approved for release.
Rehana X Aqeel
Project Management Assistant I
8/28/2018 3:39 PM

Designee for
Marie A Meidhof, Senior Project Manager
777 New Durham Road, Edison, NJ, 08817
marie.meidhof@testamericainc.com
08/28/2018

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LAO00132

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CASE NARRATIVE

Client: Hampton-Clarke Veritech

Project: 8081617

Report Number: 460-162840-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The sample was received on 8/17/2018 9:25 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.9º C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

ORGANOPHOSPHOROUS PESTICIDES (GC)
Sample AD05999-001 (460-162840-1) was analyzed for Organophosphorous Pesticides (GC) in accordance with EPA SW-846 Method 8141B. The samples were prepared on 08/22/2018 and analyzed on 08/23/2018.

No difficulties were encountered during the pesticides analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE
Sample AD05999-001 (460-162840-1) was analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 08/23/2018.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Hampton-Clarke Veritech
Project/Site: 8081617

TestAmerica Job ID: 460-162840-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-162840-1	AD05999-001	Solid	08/15/18 14:00	08/17/18 09:25

Detection Summary

Client: Hampton-Clarke Veritech
Project/Site: 8081617

TestAmerica Job ID: 460-162840-1

Client Sample ID: AD05999-001 — Lab Sample ID: 460-162840-1

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Hampton-Clarke Veritech
Project/Site: 8081617

TestAmerica Job ID: 460-162840-1

Method	Method Description	Protocol	Laboratory
EPA 8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
3541	Automated Soxhlet Extraction	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Client Sample Results

Client: Hampton-Clarke Veritech
Project/Site: 8081617

TestAmerica Job ID: 460-162840-1

Client Sample ID: AD05999-001

Date Collected: 08/15/18 14:00
Date Received: 08/17/18 09:25

Lab Sample ID: 460-162840-1

Matrix: Solid
Percent Solids: 80.3

Method: EPA 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Parathion	5.2	U	41	5.2	ug/Kg	☼	08/22/18 11:30	08/23/18 07:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tributyl phosphate	*77*		*20 - 150*	*08/22/18 11:30*	*08/23/18 07:30*	*1*
Tributyl phosphate	*69*		*20 - 150*	*08/22/18 11:30*	*08/23/18 07:30*	*1*
Triphenylphosphate	*86*		*34 - 150*	*08/22/18 11:30*	*08/23/18 07:30*	*1*
Triphenylphosphate	*90*		*34 - 150*	*08/22/18 11:30*	*08/23/18 07:30*	*1*

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Lab Chronicle

Client: Hampton-Clarke Veritech
Project/Site: 8081617

TestAmerica Job ID: 460-162840-1

Client Sample ID: AD05999-001 — Lab Sample ID: 460-162840-1

Date Collected: 08/15/18 14:00
Date Received: 08/17/18 09:25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	254822	08/23/18 12:21	CLL	TAL PIT

Client Sample ID: AD05999-001 — Lab Sample ID: 460-162840-1

Date Collected: 08/15/18 14:00
Date Received: 08/17/18 09:25
Matrix: Solid
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			254675	08/22/18 11:30	SAC	TAL PIT
Total/NA	Analysis	EPA 8141B		1	254752	08/23/18 07:30	JMO	TAL PIT

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Accreditation/Certification Summary

Client: Hampton-Clarke Veritech
Project/Site: 8081617

TestAmerica Job ID: 460-162840-1

Laboratory: TestAmerica Edison

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New Jersey	NELAP	2	12028	06-30-19

Laboratory: TestAmerica Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19
Connecticut	State Program	1	PH-0688	09-30-18
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-19
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-19
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-19
North Carolina (WW/SW)	State Program	4	434	12-31-18
Oregon	NELAP	10	PA-2151	01-28-19
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19
Texas	NELAP	6	T104704528-15-2	03-31-19
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19
Virginia	NELAP	3	460189	09-14-18 *
West Virginia DEP	State Program	3	142	01-31-19
Wisconsin	State Program	5	998027800	08-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Instrument ID: CHGC5 Analysis Batch Number: 240093

Lab Sample ID: IC 180-240093/1 Client Sample ID:

Date Analyzed: 03/21/18 08:43 Lab File ID: L0321005.D GC Column: RTX-OPP1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Mocap	10.82	Split Peak	oravecj	03/22/18 08:14

EPA 8141B

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Instrument ID: CHGC5 Analysis Batch Number: 254752

Lab Sample ID: CCVRT 180-254752/1 Client Sample ID:

Date Analyzed: 08/23/18 06:24 Lab File ID: L0082301.D GC Column: RTX-OPP1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Disulfoton	11.77	Split Peak	oravecj	08/23/18 08:32

Lab Sample ID: CCV 180-254752/7 Client Sample ID:

Date Analyzed: 08/23/18 09:42 Lab File ID: L0082307.D GC Column: RTX-OPP1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Disulfoton	11.77	Split Peak	oravecj	08/23/18 10:53

Method 8141B

Organophosphorous Pesticides (GC/MS) by Method 8141B

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RTX-OPP1 ID: 0.53(mm) GC Column (2): RTX-OPP2 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TBPH1 #	TBPH2 #	TPP1 #	TPP2 #
AD05999-001	460-162840-1	77	69	86	90
	MB 180-254675/1-A	81	71	87	92
	LCS 180-254675/2-A	87	82	88	92
AD05999-001 MS	460-162840-1 MS	72	69	77	85
AD05999-001 MSD	460-162840-1 MSD	79	74	81	87

	QC LIMITS
TBPH = Tributyl phosphate	20-150
TPP = Triphenylphosphate	34-150

Column to be used to flag recovery values

FORM II EPA 8141B

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: L0082306.D

Lab ID: LCS 180-254675/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Parathion	333	300	90	71-150	

Column to be used to flag recovery and RPD values

FORM III EPA 8141B

FORM III
GC SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: L0082304.D

Lab ID: 460-162840-1 MS Client ID: AD05999-001 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Parathion	415	5.2 U	341	82	71-150	

Column to be used to flag recovery and RPD values

FORM III EPA 8141B

FORM III
GC SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: L0082305.D

Lab ID: 460-162840-1 MSD Client ID: AD05999-001 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Parathion	415	374	90	9	15	71-150	

Column to be used to flag recovery and RPD values

FORM III EPA 8141B

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Lab Sample ID: MB 180-254675/1-A

Matrix: Solid Date Extracted: 08/22/2018 11:30

Lab File ID:(1) L0082302.D Lab File ID:(2) L0082302.D

Date Analyzed:(1) 08/23/2018 06:57 Date Analyzed:(2) 08/23/2018 06:57

Instrument ID:(1) CHGC5 Instrument ID:(2) CHGC5

GC Column:(1) RTX-OPP1 ID: 0.53(mm) GC Column:(2) RTX-OPP2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
AD05999-001	460-162840-1	08/23/2018 07:30	08/23/2018 07:30
AD05999-001 MS	460-162840-1 MS	08/23/2018 08:03	08/23/2018 08:03
AD05999-001 MSD	460-162840-1 MSD	08/23/2018 08:36	08/23/2018 08:36
	LCS 180-254675/2-A	08/23/2018 09:09	08/23/2018 09:09

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Sample No.: CCVRT 180-254752/1 Date Analyzed: 08/23/2018 06:24

Instrument ID: CHGC5 GC Column: RTX-OPP1 ID: 0.53(mm)

Lab File ID (Standard): L0082301.D Heated Purge: (Y/N) N

Calibration ID: 37534

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TBPH	TPP	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				11.04	20.60	
UPPER LIMIT				11.07	20.63	
LOWER LIMIT				11.01	20.57	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 180-254752/1		08/23/2018 06:24	L0082301.D	11.04	20.60	
MB 180-254675/1-A		08/23/2018 06:57	L0082302.D	11.04	20.60	
460-162840-1	AD05999-001	08/23/2018 07:30	L0082303.D	11.04	20.60	
460-162840-1 MS	AD05999-001 MS	08/23/2018 08:03	L0082304.D	11.04	20.60	
460-162840-1 MSD	AD05999-001 MSD	08/23/2018 08:36	L0082305.D	11.04	20.60	
LCS 180-254675/2-A		08/23/2018 09:09	L0082306.D	11.04	20.60	
CCV 180-254752/7		08/23/2018 09:42	L0082307.D	11.04	20.60	

TBPH = Tributyl phosphate
TPP = Triphenylphosphate

TBPH RT Limit = ± 0.03 minutes of surrogate RT
TPP RT Limit = ± 0.03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII EPA 8141B

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Sample No.: CCVRT 180-254752/1 Date Analyzed: 08/23/2018 06:24

Instrument ID: CHGC5 GC Column: RTX-OPP2 ID: 0.53(mm)

Lab File ID (Standard): L0082301.D Heated Purge: (Y/N) N

Calibration ID: 37535

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TBPH	TPP	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				10.72	22.27	
UPPER LIMIT				10.75	22.30	
LOWER LIMIT				10.69	22.24	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 180-254752/1		08/23/2018 06:24	L0082301.D	10.72	22.27	
MB 180-254675/1-A		08/23/2018 06:57	L0082302.D	10.72	22.27	
460-162840-1	AD05999-001	08/23/2018 07:30	L0082303.D	10.72	22.27	
460-162840-1 MS	AD05999-001 MS	08/23/2018 08:03	L0082304.D	10.72	22.27	
460-162840-1 MSD	AD05999-001 MSD	08/23/2018 08:36	L0082305.D	10.72	22.27	
LCS 180-254675/2-A		08/23/2018 09:09	L0082306.D	10.72	22.27	
CCV 180-254752/7		08/23/2018 09:42	L0082307.D	10.72	22.27	

TBPH = Tributyl phosphate
TPP = Triphenylphosphate

TBPH RT Limit = ± 0.03 minutes of surrogate RT
TPP RT Limit = ± 0.03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII EPA 8141B

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 180-254675/2-A

Instrument ID (1): CHGC5 Instrument ID (2): CHGC5

Date Analyzed (1): 08/23/2018 09:09 Date Analyzed (2): 08/23/2018 09:09

GC Column (1): RTX-OPP1 ID: 0.53(mm) GC Column (2): RTX-OPP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Parathion	1		16.21	16.18	16.24	293		2.3
	2		15.81	15.78	15.84	300		

FORM X EPA 8141B

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Client Sample ID: AD05999-001 MS Lab Sample ID: 460-162840-1 MS

Instrument ID (1): CHGC5 Instrument ID (2): CHGC5

Date Analyzed (1): 08/23/2018 08:03 Date Analyzed (2): 08/23/2018 08:03

GC Column (1): RTX-OPP1 ID: 0.53(mm) GC Column (2): RTX-OPP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Parathion	1		16.21	16.18	16.24	331		3.0
	2		15.81	15.78	15.84	341		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Client Sample ID: AD05999-001 MSD Lab Sample ID: 460-162840-1 MSD

Instrument ID (1): CHGC5 Instrument ID (2): CHGC5

Date Analyzed (1): 08/23/2018 08:36 Date Analyzed (2): 08/23/2018 08:36

GC Column (1): RTX-OPP1 ID: 0.53(mm) GC Column (2): RTX-OPP2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Parathion	1		16.21	16.18	16.24	363		3.0
	2		15.81	15.78	15.84	374		

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 460-162840-1
SDG No.:
Client Sample ID: AD05999-001
Lab Sample ID: 460-162840-1
Matrix: Solid
Lab File ID: L0082303.D
Analysis Method: EPA 8141B
Date Collected: 08/15/2018 14:00
Extraction Method: 3541
Date Extracted: 08/22/2018 11:30
Sample wt/vol: 15.0(g)
Date Analyzed: 08/23/2018 07:30
Con. Extract Vol.: 2.5(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: RTX-OPP1 ID: 0.53(mm)
% Moisture: 19.7
GPC Cleanup:(Y/N) N
Analysis Batch No.: 254752
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-38-2	Parathion	5.2	U	41	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
126-73-8	Tributyl phosphate	77		20-150
115-86-6	Triphenylphosphate	86		34-150

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082303.D
Lims ID: 460-162840-A-1-C
Client ID: AD05999-001
Sample Type: Client
Inject. Date: 23-Aug-2018 07:30:16 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0023306-003
Operator ID: 402331 Instrument ID: CHGC5

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 23-Aug-2018 10:54:25 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Aug-2018 08:33:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
$ 1 Tributyl phosphate						
1	11.041	11.043	-0.002	70438945	H	1.55
2	10.719	10.718	0.001	73864137	H	1.38
					RPD =	11.74
$ 2 Triphenylphosphate						
1	20.601	20.604	-0.003	28925267	H	1.71
2	22.268	22.270	-0.002	34225166	H	1.80
					RPD =	5.03
3 o,o',o''-Triethylphosphorothioate						
1		4.895			ND	
2		5.044				
4 Dichlorvos						
1		6.906			ND	
2		6.305				
5 Mevinphos						
1		9.474			ND	
2		8.652				
6 Demeton-O						
1		9.947			ND	
2		10.578				
7 Thionazin						
1		10.136			ND	
2		10.683				
8 Ethoprop						
1		10.550			ND	
2		10.862				
9 Phorate						
1		10.599			ND	
2		11.503				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
10 Sulfotepp						
1		10.973			ND	
2		11.464				
11 Diazinon						
1		11.413			ND	
2		12.565				
12 Disulfoton						
1		11.771			ND	
2		12.767				
13 Demeton-S						
1		11.798			ND	
2		11.946				
14 Dimethoate						U
1		12.583			ND	
2		12.348				
15 Ronnel						
1		12.907			ND	
2		14.328				
16 Chlorpyrifos						
1		13.619			ND	
2		15.610				
17 Fenthion						
1		13.829			ND	
2		15.879				
18 Trichloronate						
1		13.902			ND	
2		15.747				
19 Methyl parathion						
1		14.635			ND	
2		14.270				
20 Malathion						
1		14.981			ND	
2		15.491				
21 Tokuthion						
1		16.055			ND	
2		18.406				
22 Ethyl Parathion						
1		16.211			ND	
2		15.808				
23 Stirophos						
1		17.224			ND	
2		18.210				
24 Bolstar						
1		18.304			ND	
2		20.896				
25 Fensulfothion						
1		21.195			ND	
2		20.658				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
26 EPN						
1		22.255			ND	
2		22.963				
27 Famphur						
1		22.500			ND	
2		21.586				
28 Azinphos-methyl						
1		22.894			ND	
2		24.147				
29 Coumaphos						
1		25.547			ND	
2		25.392				
S 30 Demeton, Total						
1		10.230			ND	
2		10.611				

QC Flag Legend

Review Flags

U - Marked Undetected

Report Date: 23-Aug-2018 10:54:35 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082303.D				
Injection Date:	23-Aug-2018 07:30:16	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	460-162840-A-1-C	Lab Sample ID:	180-162840-1	Worklist Smp#:	3
Client ID:	AD05999-001				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

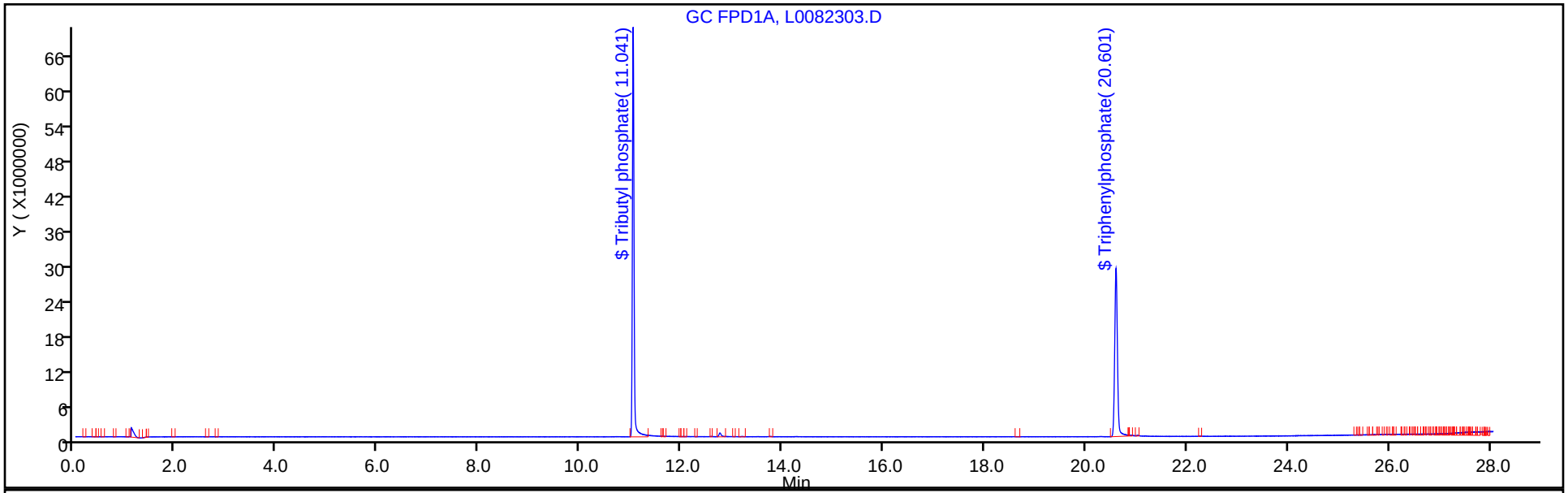

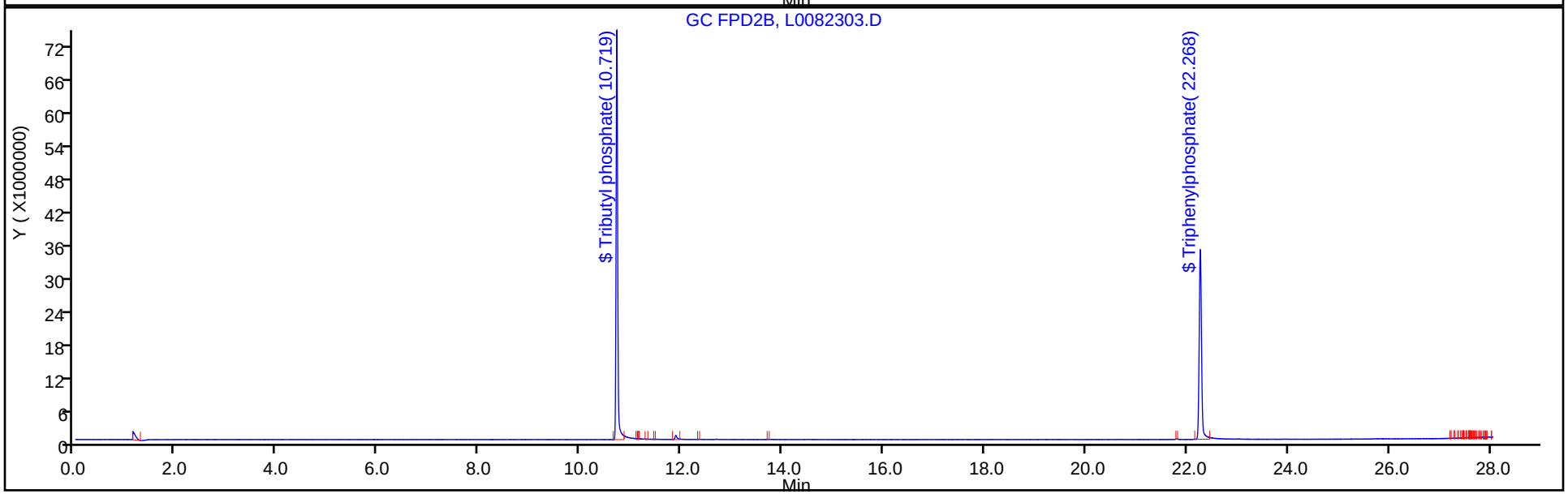

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Client Sample ID: AD05999-001 Lab Sample ID: 460-162840-1

Matrix: Solid Lab File ID: L0082303.D

Analysis Method: EPA 8141B Date Collected: 08/15/2018 14:00

Extraction Method: 3541 Date Extracted: 08/22/2018 11:30

Sample wt/vol: 15.0(g) Date Analyzed: 08/23/2018 07:30

Con. Extract Vol.: 2.5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-OPP2 ID: 0.53(mm)

% Moisture: 19.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 254752 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
126-73-8	Tributyl phosphate	69		20-150
115-86-6	Triphenylphosphate	90		34-150

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082303.D
Lims ID: 460-162840-A-1-C
Client ID: AD05999-001
Sample Type: Client
Inject. Date: 23-Aug-2018 07:30:16 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0023306-003
Operator ID: 402331 Instrument ID: CHGC5

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 23-Aug-2018 10:54:25 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Aug-2018 08:33:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
$ 1 Tributyl phosphate						
1	11.041	11.043	-0.002	70438945	H	1.55
2	10.719	10.718	0.001	73864137	H	1.38
					RPD =	11.74
$ 2 Triphenylphosphate						
1	20.601	20.604	-0.003	28925267	H	1.71
2	22.268	22.270	-0.002	34225166	H	1.80
					RPD =	5.03
3 o,o',o''-Triethylphosphorothioate						
1		4.895			ND	
2		5.044				
4 Dichlorvos						
1		6.906			ND	
2		6.305				
5 Mevinphos						
1		9.474			ND	
2		8.652				
6 Demeton-O						
1		9.947			ND	
2		10.578				
7 Thionazin						
1		10.136			ND	
2		10.683				
8 Ethoprop						
1		10.550			ND	
2		10.862				
9 Phorate						
1		10.599			ND	
2		11.503				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
10 Sulfotepp						
1		10.973			ND	
2		11.464				
11 Diazinon						
1		11.413			ND	
2		12.565				
12 Disulfoton						
1		11.771			ND	
2		12.767				
13 Demeton-S						
1		11.798			ND	
2		11.946				
14 Dimethoate						U
1		12.583			ND	
2		12.348				
15 Ronnel						
1		12.907			ND	
2		14.328				
16 Chlorpyrifos						
1		13.619			ND	
2		15.610				
17 Fenthion						
1		13.829			ND	
2		15.879				
18 Trichloronate						
1		13.902			ND	
2		15.747				
19 Methyl parathion						
1		14.635			ND	
2		14.270				
20 Malathion						
1		14.981			ND	
2		15.491				
21 Tokuthion						
1		16.055			ND	
2		18.406				
22 Ethyl Parathion						
1		16.211			ND	
2		15.808				
23 Stirophos						
1		17.224			ND	
2		18.210				
24 Bolstar						
1		18.304			ND	
2		20.896				
25 Fensulfothion						
1		21.195			ND	
2		20.658				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng	Flags
26 EPN						
1		22.255			ND	
2		22.963				
27 Famphur						
1		22.500			ND	
2		21.586				
28 Azinphos-methyl						
1		22.894			ND	
2		24.147				
29 Coumaphos						
1		25.547			ND	
2		25.392				
S 30 Demeton, Total						
1		10.230			ND	
2		10.611				

QC Flag Legend

Review Flags

U - Marked Undetected

Report Date: 23-Aug-2018 10:54:35 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082303.D				
Injection Date:	23-Aug-2018 07:30:16	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	460-162840-A-1-C	Lab Sample ID:	180-162840-1	Worklist Smp#:	3
Client ID:	AD05999-001				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

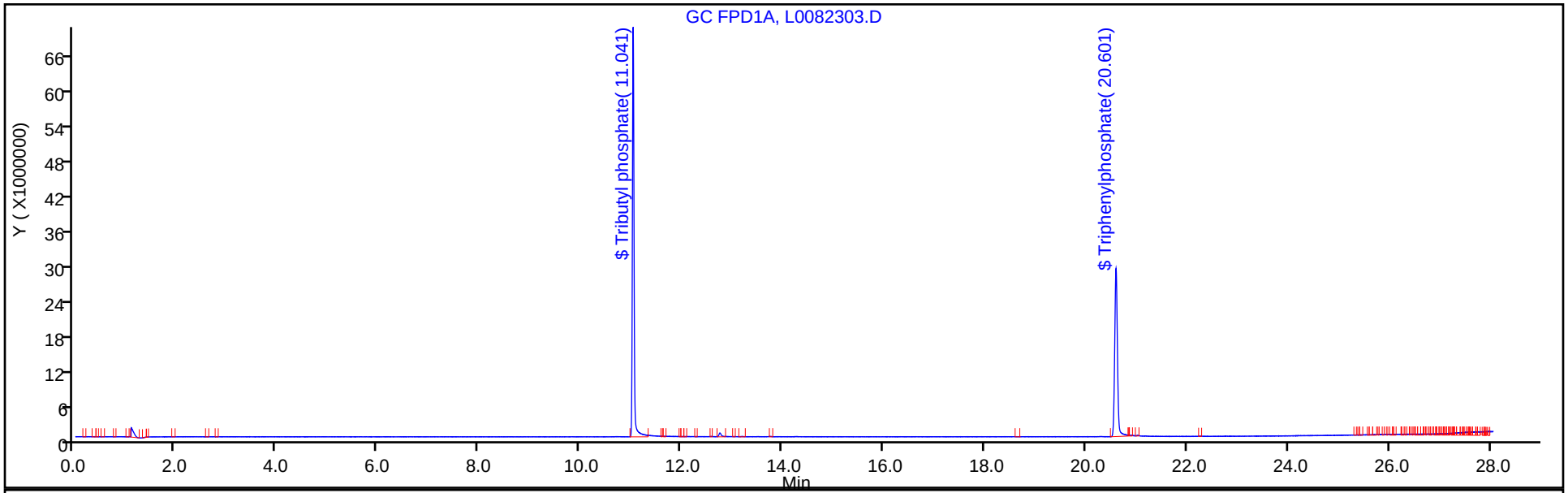

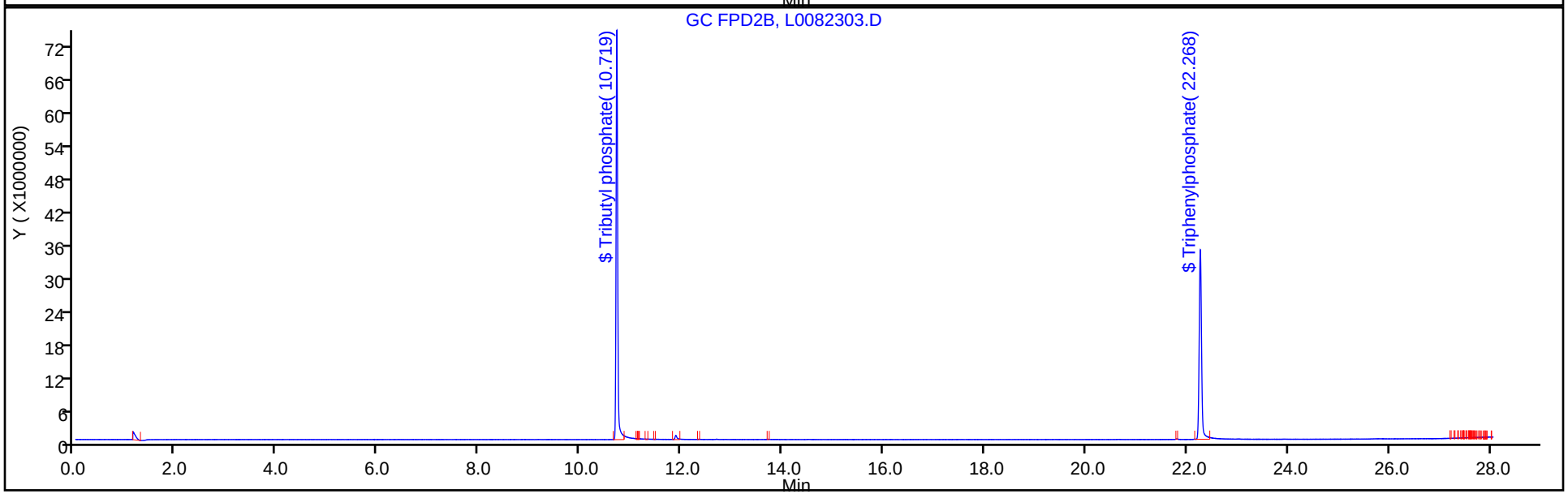

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1 Analy Batch No.: 240093

SDG No.:

Instrument ID: CHGC5 GC Column: RTX-OPP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 08:43 Calibration End Date: 03/21/2018 10:55 Calibration ID: 37534

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240093/1	L0321005.D
Level 2	IC 180-240093/2	L0321006.D
Level 3	ICRT 180-240093/3	L0321007.D
Level 4	IC 180-240093/4	L0321008.D
Level 5	IC 180-240093/5	L0321009.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
O,O,O-Triethyl phosphorothioate	5.102	5.102	5.103	5.105	5.105						5.075 - 5.135	5.103
Dichlorvos	7.176	7.177	7.177	7.179	7.178						7.149 - 7.209	7.177
Mevinphos	9.771	9.771	9.772	9.774	9.774						9.744 - 9.804	9.772
Demeton-O	10.196	10.196	10.197	10.200	10.200						10.170 - 10.230	10.198
Thionazin	10.399	10.398	10.400	10.403	10.402						10.373 - 10.433	10.400
Mocap	10.823	10.823	10.823	10.827	10.824						10.797 - 10.857	10.824
Phorate	10.846	10.848	10.850	10.854	10.853						10.824 - 10.884	10.850
Sulfotepp	11.237	11.237	11.239	11.241	11.242						11.211 - 11.271	11.239
Diazinon	11.648	11.647	11.648	11.652	11.651						11.622 - 11.682	11.649
Disulfoton	12.021	12.021	12.022	12.025	12.024						11.995 - 12.055	12.023
Demeton-S	12.071	12.071	12.071	12.075	12.073						12.045 - 12.105	12.072
Dimethoate	12.969	12.967	12.969	12.973	12.973						12.943 - 13.003	12.970
Ronnel	13.248	13.246	13.247	13.253	13.250						13.223 - 13.283	13.249
Chlorpyrifos	14.011	14.012	14.013	14.018	14.017						13.988 - 14.048	14.014
Fenthion	14.258	14.257	14.261	14.266	14.265						14.236 - 14.296	14.261
Trichloronate	14.320	14.318	14.317	14.325	14.325						14.295 - 14.355	14.321
Methyl parathion	15.222	15.221	15.223	15.230	15.225						15.200 - 15.260	15.224
Malathion	15.536	15.537	15.535	15.544	15.542						15.514 - 15.574	15.539
Tokuthion	16.519	16.522	16.523	16.529	16.528						16.499 - 16.559	16.524
Parathion	16.766	16.768	16.768	16.775	16.772						16.745 - 16.805	16.770
Stirophos	17.739	17.739	17.738	17.745	17.742						17.715 - 17.775	17.741
Bolstar	18.757	18.757	18.756	18.762	18.762						18.732 - 18.792	18.759
Fensulfothion	21.722	21.721	21.721	21.727	21.726						21.697 - 21.757	21.723
EPN	22.694	22.692	22.693	22.698	22.698						22.668 - 22.728	22.695
Famphur	22.988	22.985	22.986	22.990	22.990						22.960 - 23.020	22.988
Azinphos-methyl	23.316	23.317	23.315	23.320	23.319						23.290 - 23.350	23.317
Coumaphos	25.949	25.950	25.952	25.955	25.954						25.925 - 25.985	25.952
Tributyl phosphate	11.315	11.314	11.316	11.319	11.317						11.289 - 11.349	11.316
Triphenylphosphate	21.086	21.087	21.086	21.092	21.090						21.062 - 21.122	21.088

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1 Analy Batch No.: 240093

SDG No.:

Instrument ID: CHGC5 GC Column: RTX-OPP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 08:43 Calibration End Date: 03/21/2018 10:55 Calibration ID: 37534

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240093/1	L0321005.D
Level 2	IC 180-240093/2	L0321006.D
Level 3	ICRT 180-240093/3	L0321007.D
Level 4	IC 180-240093/4	L0321008.D
Level 5	IC 180-240093/5	L0321009.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
O,O,O-Triethyl phosphorothioate	81883545 77383944	77538978	78392076	76248461	Ave		78289400.8				2.7		20.0			
Dichlorvos	69751465 65642493	66736524	66530767	65698033	Ave		66871856.3				2.5		20.0			
Mevinphos	47959000 51553991	49793408	50765314	50498051	Ave		50113952.8				2.7		20.0			
Demeton-O	51357735 47786343	49801941	49549182	48920934	Ave		49483227.1				2.6		20.0			
Thionazin	55194820 51045267	53447722	55029146	51853890	Ave		53314169.0				3.5		20.0			
Mocap	60526315 55380175	58339098	57807649	56860244	Ave		57782696.0				3.3		20.0			
Phorate	56534790 50275744	55253664	54530307	53202340	Ave		53959369.0				4.4		20.0			
Sulfotepp	84074935 78259708	81540992	80925598	80764547	Ave		81113156.0				2.6		20.0			
Diazinon	44482580 40465150	43510790	41559264	42034445	Ave		42410445.8				3.8		20.0			
Disulfoton	45792810 42335877	44867756	44201505	43741166	Ave		44187822.8				2.9		20.0			
Demeton-S	48102439 47646062	48869315	49338464	49623730	Ave		48716002.0				1.7		20.0			
Dimethoate	33890325 41964932	37850172	40176448	42023988	Ave		39181172.9				8.7		20.0			
Ronnel	31078740 29828690	31009306	30207519	30738772	Ave		30572605.4				1.8		20.0			
Chlorpyrifos	24379355 22370379	24000456	23008160	23314135	Ave		23414497.0				3.4		20.0			
Fenthion	31304750 28585875	30765094	29703150	29887215	Ave		30049216.7				3.5		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1 Analy Batch No.: 240093

SDG No.:

Instrument ID: CHGC5 GC Column: RTX-OPP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 08:43 Calibration End Date: 03/21/2018 10:55 Calibration ID: 37534

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Trichloronate	25143980 22564702	24523622	23644079	23480015	Ave		23871279.5				4.2		20.0			
Methyl parathion	26401670 25634658	26050866	26051755	26092348	Ave		26046259.3				1.0		20.0			
Malathion	20503860 19333388	20004092	20037214	20059510	Ave		19987612.8				2.1		20.0			
Tokuthion	19907765 17916371	19294430	18797273	18792343	Ave		18941636.4				3.9		20.0			
Parathion	25367945 23731839	24477080	24905189	24214398	Ave		24539290.2				2.6		20.0			
Stirophos	17787910 18089727	18161754	18087189	18496356	Ave		18124587.2				1.4		20.0			
Bolstar	21758575 20041792	21519258	20927762	20950281	Ave		21039533.5				3.2		20.0			
Fensulfothion	22266380 25974854	24876360	24829487	26673629	Ave		24924141.9				6.7		20.0			
EPN	22810660 24255821	23225090	23864536	23988515	Ave		23628924.4				2.5		20.0			
Famphur	26576310 27499746	26814170	27119203	27520843	Ave		27106054.4				1.5		20.0			
Azinphos-methyl	20362990 23907711	21945708	22710262	24230376	Ave		22631409.4				6.9		20.0			
Coumaphos	24008155 24131424	24631552	24072784	24188751	Ave		24206533.2				1.0		20.0			
Tributyl phosphate	52697130 40713910	44541962	44628477	44903208	Ave		45496937.4				9.6		20.0			
Triphenylphosphate	18216960 16308843	16341200	16435853	17065667	Ave		16873704.4				4.8		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1 Analy Batch No.: 240093

SDG No.:

Instrument ID: CHGC5 GC Column: RTX-OPP1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 08:43 Calibration End Date: 03/21/2018 10:55 Calibration ID: 37534

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240093/1	L0321005.D
Level 2	IC 180-240093/2	L0321006.D
Level 3	ICRT 180-240093/3	L0321007.D
Level 4	IC 180-240093/4	L0321008.D
Level 5	IC 180-240093/5	L0321009.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
O,O,O-Triethyl phosphorothioate	Ave	16376709	38769489	78392076	152496922	309535776	0.200	0.500	1.00	2.00	4.00
Dichlorvos	Ave	13950293	33368262	66530767	131396065	262569972	0.200	0.500	1.00	2.00	4.00
Mevinphos	Ave	9591800	24896704	50765314	100996102	206215964	0.200	0.500	1.00	2.00	4.00
Demeton-O	Ave	3492326	8466330	16846722	33266235	64989426	0.0680	0.170	0.340	0.680	1.36
Thionazin	Ave	11038964	26723861	55029146	103707780	204181067	0.200	0.500	1.00	2.00	4.00
Mocap	Ave	12105263	29169549	57807649	113720487	221520698	0.200	0.500	1.00	2.00	4.00
Phorate	Ave	11306958	27626832	54530307	106404680	201102975	0.200	0.500	1.00	2.00	4.00
Sulfotepp	Ave	16814987	40770496	80925598	161529094	313038831	0.200	0.500	1.00	2.00	4.00
Diazinon	Ave	8896516	21755395	41559264	84068890	161860599	0.200	0.500	1.00	2.00	4.00
Disulfoton	Ave	9158562	22433878	44201505	87482331	169343509	0.200	0.500	1.00	2.00	4.00
Demeton-S	Ave	6349522	16126874	32563386	65503323	125785604	0.132	0.330	0.660	1.32	2.64
Dimethoate	Ave	6778065	18925086	40176448	84047975	167859727	0.200	0.500	1.00	2.00	4.00
Ronnel	Ave	6215748	15504653	30207519	61477543	119314761	0.200	0.500	1.00	2.00	4.00
Chlorpyrifos	Ave	4875871	12000228	23008160	46628269	89481517	0.200	0.500	1.00	2.00	4.00
Fenthion	Ave	6260950	15382547	29703150	59774429	114343499	0.200	0.500	1.00	2.00	4.00
Trichloronate	Ave	5028796	12261811	23644079	46960029	90258807	0.200	0.500	1.00	2.00	4.00
Methyl parathion	Ave	5280334	13025433	26051755	52184695	102538632	0.200	0.500	1.00	2.00	4.00
Malathion	Ave	4100772	10002046	20037214	40119020	77333552	0.200	0.500	1.00	2.00	4.00
Tokuthion	Ave	3981553	9647215	18797273	37584686	71665483	0.200	0.500	1.00	2.00	4.00
Parathion	Ave	5073589	12238540	24905189	48428796	94927355	0.200	0.500	1.00	2.00	4.00
Stirophos	Ave	3557582	9080877	18087189	36992711	72358909	0.200	0.500	1.00	2.00	4.00
Bolstar	Ave	4351715	10759629	20927762	41900561	80167167	0.200	0.500	1.00	2.00	4.00
Fensulfothion	Ave	4453276	12438180	24829487	53347257	103899415	0.200	0.500	1.00	2.00	4.00
EPN	Ave	4562132	11612545	23864536	47977030	97023283	0.200	0.500	1.00	2.00	4.00
Famphur	Ave	5315262	13407085	27119203	55041686	109998984	0.200	0.500	1.00	2.00	4.00
Azinphos-methyl	Ave	4072598	10972854	22710262	48460752	95630844	0.200	0.500	1.00	2.00	4.00
Coumaphos	Ave	4801631	12315776	24072784	48377501	96525697	0.200	0.500	1.00	2.00	4.00
Tributyl phosphate	Ave	10539426	22270981	44628477	89806415	162855641	0.200	0.500	1.00	2.00	4.00
Triphenylphosphate	Ave	3643392	8170600	16435853	34131333	65235370	0.200	0.500	1.00	2.00	4.00

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321005.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 21-Mar-2018 08:43:17 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020992-001
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 22-Mar-2018 08:17:17 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK016

First Level Reviewer: oravecj Date: 22-Mar-2018 08:14:23

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.315	11.319	-0.004	10539426H	0.2000	0.2317	
2	10.689	10.694	-0.005	12005643H	0.2000	0.2237	
						RPD = 3.48	
$ 2 Triphenylphosphate							
1	21.086	21.092	-0.006	3643392H	0.2000	0.2159	
2	22.257	22.264	-0.007	4097552H	0.2000	0.2158	
						RPD = 0.05	
3 o,o',o''-Triethylphosphorothioate							
1	5.102	5.105	-0.003	16376709H	0.2000	0.2092	
2	5.020	5.023	-0.003	18629962H	0.2000	0.2089	
						RPD = 0.14	
4 Dichlorvos							
1	7.176	7.179	-0.003	13950293H	0.2000	0.2086	
2	6.281	6.284	-0.003	14793580H	0.2000	0.2074	
						RPD = 0.57	
5 Mevinphos							
1	9.771	9.774	-0.003	9591800H	0.2000	0.1914	
2	8.628	8.631	-0.003	9752991H	0.2000	0.1944	
						RPD = 1.55	
6 Demeton-O							
1	10.196	10.200	-0.004	3492326H	0.0680	0.0706	
2	10.555	10.559	-0.004	3791130H	0.0680	0.0697	
						RPD = 1.28	
7 Thionazin							
1	10.399	10.403	-0.004	11038964H	0.2000	0.2071	
2	10.661	10.665	-0.004	12675240H	0.2000	0.2064	
						RPD = 0.31	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							M
1	10.823	10.827	-0.004	12105263H	0.2000	0.2095	
2	10.838	10.842	-0.004	12136462H	0.2000	0.2048	
						RPD = 2.29	
9 Phorate							M
1	10.846	10.854	-0.008	11306958H	0.2000	0.2095	
2	11.477	11.482	-0.005	12336038H	0.2000	0.2103	
						RPD = 0.36	
10 Sulfotepp							
1	11.237	11.241	-0.004	16814987H	0.2000	0.2073	
2	11.446	11.450	-0.004	18664771H	0.2000	0.2059	
						RPD = 0.69	
11 Diazinon							
1	11.648	11.652	-0.004	8896516H	0.2000	0.2098	
2	12.539	12.544	-0.005	8317243H	0.2000	0.2056	
						RPD = 2.02	
12 Disulfoton							
1	12.021	12.025	-0.004	9158562H	0.2000	0.2073	
2	12.737	12.744	-0.007	8381636H	0.2000	0.2066	
						RPD = 0.31	
13 Demeton-S							
1	12.071	12.075	-0.004	6349522H	0.1320	0.1303	
2	11.916	11.920	-0.004	6829000H	0.1320	0.1284	
						RPD = 1.46	
14 Dimethoate							
1	12.969	12.973	-0.004	6778065H	0.2000	0.1730	
2	12.319	12.325	-0.006	8599046H	0.2000	0.1724	
						RPD = 0.34	
15 Ronnel							
1	13.248	13.253	-0.005	6215748H	0.2000	0.2033	
2	14.292	14.300	-0.008	5778996H	0.2000	0.2051	
						RPD = 0.88	
16 Chlorpyrifos							
1	14.011	14.018	-0.007	4875871H	0.2000	0.2082	
2	15.581	15.589	-0.008	4541277H	0.2000	0.2062	
						RPD = 0.98	
17 Fenthion							
1	14.258	14.266	-0.008	6260950H	0.2000	0.2084	
2	15.850	15.860	-0.010	6090110H	0.2000	0.2048	
						RPD = 1.70	
18 Trichloronate							
1	14.320	14.325	-0.005	5028796H	0.2000	0.2107	
2	15.708	15.716	-0.008	4751160H	0.2000	0.2049	
						RPD = 2.77	
19 Methyl parathion							
1	15.222	15.230	-0.008	5280334H	0.2000	0.2027	
2	14.236	14.242	-0.006	6610359H	0.2000	0.2005	
						RPD = 1.10	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	15.536	15.544	-0.008	4100772H	0.2000	0.2052	
2	15.463	15.473	-0.010	4266763H	0.2000	0.2023	
						RPD = 1.41	
21 Tokuthion							
1	16.519	16.529	-0.010	3981553H	0.2000	0.2102	
2	18.372	18.382	-0.010	4518954H	0.2000	0.2054	
						RPD = 2.32	
22 Ethyl Parathion							
1	16.766	16.775	-0.009	5073589H	0.2000	0.2068	
2	15.772	15.783	-0.011	5661346H	0.2000	0.2036	
						RPD = 1.54	
23 Stirophos							
1	17.739	17.745	-0.006	3557582H	0.2000	0.1963	
2	18.182	18.189	-0.007	3680602H	0.2000	0.1944	
						RPD = 0.99	
24 Bolstar							
1	18.757	18.762	-0.005	4351715H	0.2000	0.2068	
2	20.877	20.884	-0.007	4868562H	0.2000	0.2064	
						RPD = 0.21	
25 Fensulfothion							
1	21.722	21.727	-0.005	4453276H	0.2000	0.1787	
2	20.635	20.641	-0.006	4194747H	0.2000	0.1740	
						RPD = 2.65	
26 EPN							
1	22.694	22.698	-0.004	4562132H	0.2000	0.1931	
2	22.947	22.953	-0.006	5102442H	0.2000	0.1933	
						RPD = 0.12	
27 Famphur							
1	22.988	22.990	-0.002	5315262H	0.2000	0.1961	
2	21.572	21.580	-0.008	5228054H	0.2000	0.1978	
						RPD = 0.85	
28 Azinphos-methyl							
1	23.316	23.320	-0.004	4072598H	0.2000	0.1800	
2	24.138	24.144	-0.006	4558480H	0.2000	0.1803	
						RPD = 0.21	
29 Coumaphos							
1	25.949	25.955	-0.006	4801631H	0.2000	0.1984	
2	25.381	25.386	-0.005	5504900H	0.2000	0.1971	
						RPD = 0.62	
S 30 Demeton, Total							
1					0.2000	0.2009	
2					0.2000	0.1981	
						RPD = 1.40	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCOPPLEVEL1_00001 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:17:18 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321005.D				
Injection Date:	21-Mar-2018 08:43:17	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	IC			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

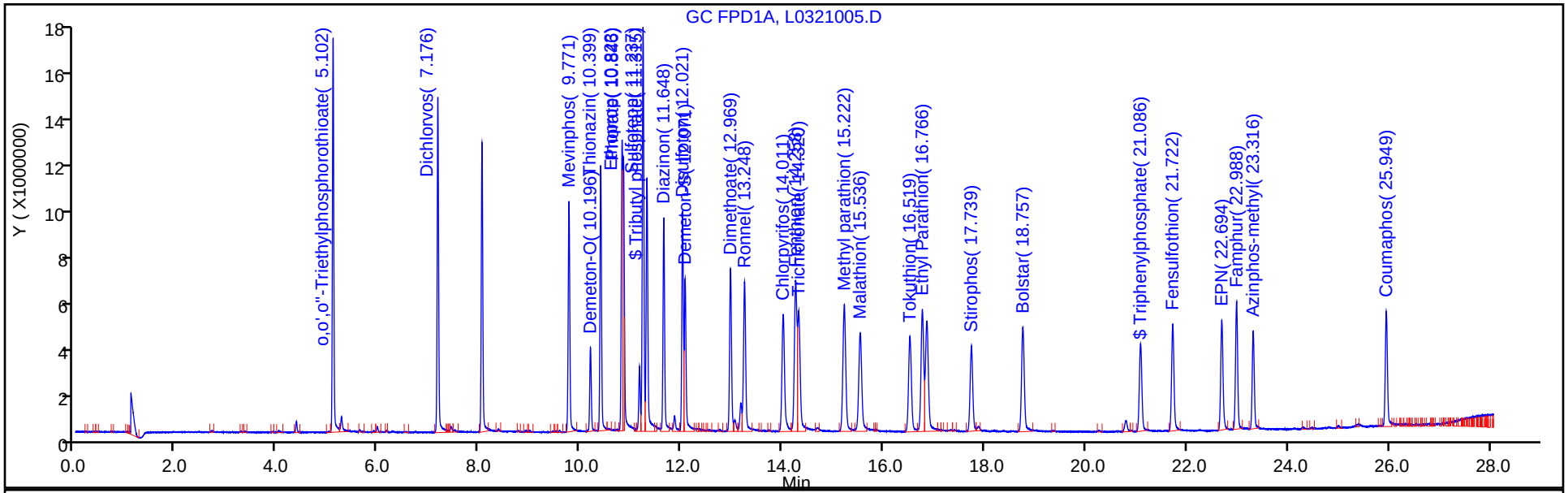

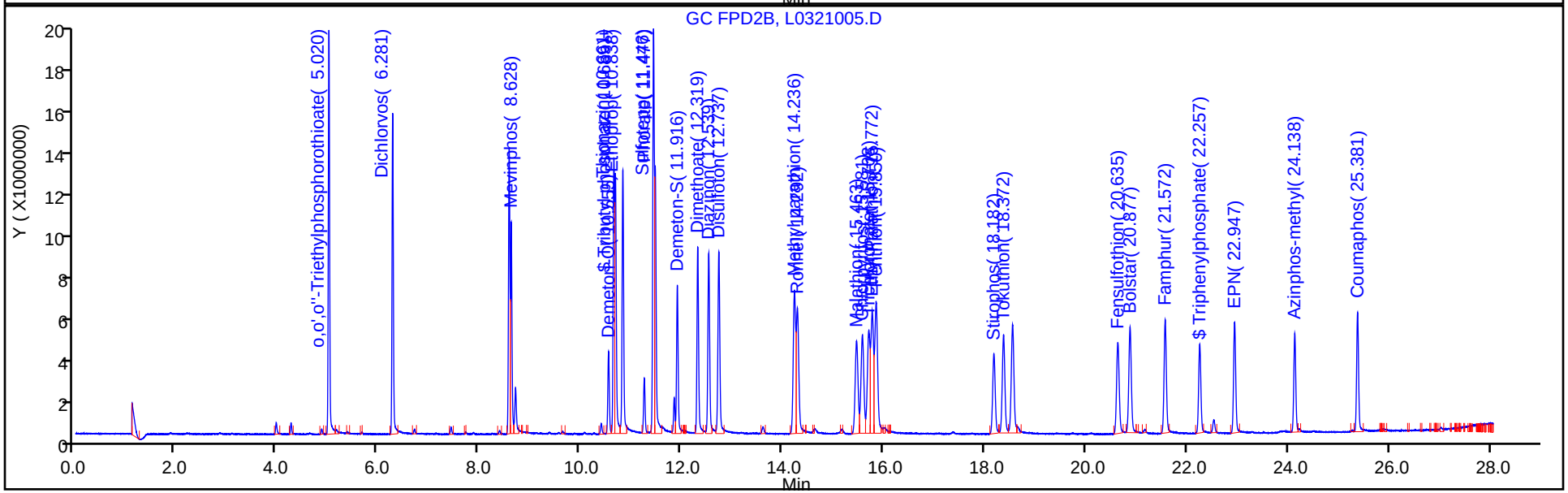

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321006.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 21-Mar-2018 09:16:22 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020992-002
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 22-Mar-2018 08:17:11 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK016

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.314	11.319	-0.005	22270981H	0.5000	0.4895	
2	10.689	10.694	-0.005	26120068H	0.5000	0.4868	
						RPD = 0.56	
$ 2 Triphenylphosphate							
1	21.087	21.092	-0.005	8170600H	0.5000	0.4842	
2	22.258	22.264	-0.006	9063082H	0.5000	0.4774	
						RPD = 1.43	
3 o,o',o''-Triethylphosphorothioate							
1	5.102	5.105	-0.003	38769489H	0.5000	0.4952	
2	5.019	5.023	-0.004	44375309H	0.5000	0.4976	
						RPD = 0.48	
4 Dichlorvos							
1	7.177	7.179	-0.002	33368262H	0.5000	0.4990	
2	6.280	6.284	-0.004	35622974H	0.5000	0.4995	
						RPD = 0.10	
5 Mevinphos							
1	9.771	9.774	-0.003	24896704H	0.5000	0.4968	
2	8.627	8.631	-0.004	25090545H	0.5000	0.5001	
						RPD = 0.66	
6 Demeton-O							
1	10.196	10.200	-0.004	8466330H	0.1700	0.1711	
2	10.554	10.559	-0.005	9268996H	0.1700	0.1704	
						RPD = 0.43	
7 Thionazin							
1	10.398	10.403	-0.005	26723861H	0.5000	0.5013	
2	10.660	10.665	-0.005	30585900H	0.5000	0.4981	
						RPD = 0.64	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.823	10.827	-0.004	29169549H	0.5000	0.5048	
2	10.837	10.842	-0.005	29977459H	0.5000	0.5058	
						RPD = 0.19	
9 Phorate							
1	10.848	10.854	-0.006	27626832H	0.5000	0.5120	
2	11.477	11.482	-0.005	29933904H	0.5000	0.5103	
						RPD = 0.33	
10 Sulfotepp							
1	11.237	11.241	-0.004	40770496H	0.5000	0.5026	
2	11.445	11.450	-0.005	45101838H	0.5000	0.4975	
						RPD = 1.03	
11 Diazinon							
1	11.647	11.652	-0.005	21755395H	0.5000	0.5130	
2	12.537	12.544	-0.007	20791242H	0.5000	0.5139	
						RPD = 0.18	
12 Disulfoton							
1	12.021	12.025	-0.004	22433878H	0.5000	0.5077	
2	12.738	12.744	-0.006	20570314H	0.5000	0.5071	
						RPD = 0.12	
13 Demeton-S							
1	12.071	12.075	-0.004	16126874H	0.3300	0.3310	
2	11.917	11.920	-0.003	17377131H	0.3300	0.3268	
						RPD = 1.27	
14 Dimethoate							
1	12.967	12.973	-0.006	18925086H	0.5000	0.4830	
2	12.319	12.325	-0.006	24049688H	0.5000	0.4822	
						RPD = 0.18	
15 Ronnel							
1	13.246	13.253	-0.007	15504653H	0.5000	0.5071	
2	14.292	14.300	-0.008	14238707H	0.5000	0.5054	
						RPD = 0.35	
16 Chlorpyrifos							
1	14.012	14.018	-0.006	12000228H	0.5000	0.5125	
2	15.581	15.589	-0.008	11109327H	0.5000	0.5045	
						RPD = 1.58	
17 Fenthion							
1	14.257	14.266	-0.009	15382547H	0.5000	0.5119	
2	15.851	15.860	-0.009	15067076H	0.5000	0.5068	
						RPD = 1.01	
18 Trichloronate							
1	14.318	14.325	-0.007	12261811H	0.5000	0.5137	
2	15.708	15.716	-0.008	11749166H	0.5000	0.5067	
						RPD = 1.36	
19 Methyl parathion							
1	15.221	15.230	-0.009	13025433H	0.5000	0.5001	
2	14.232	14.242	-0.010	16625756H	0.5000	0.5043	
						RPD = 0.84	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	15.537	15.544	-0.007	10002046H	0.5000	0.5004	
2	15.465	15.473	-0.008	10596335H	0.5000	0.5024	
						RPD = 0.40	
21 Tokuthion							
1	16.522	16.529	-0.007	9647215H	0.5000	0.5093	
2	18.371	18.382	-0.011	11254893H	0.5000	0.5115	
						RPD = 0.44	
22 Ethyl Parathion							
1	16.768	16.775	-0.007	12238540H	0.5000	0.4987	
2	15.772	15.783	-0.011	13858996H	0.5000	0.4984	
						RPD = 0.07	
23 Stirophos							
1	17.739	17.745	-0.006	9080877H	0.5000	0.5010	
2	18.181	18.189	-0.008	9369635H	0.5000	0.4948	
						RPD = 1.26	
24 Bolstar							
1	18.757	18.762	-0.005	10759629H	0.5000	0.5114	
2	20.880	20.884	-0.004	11908471H	0.5000	0.5049	
						RPD = 1.29	
25 Fensulfothion							
1	21.721	21.727	-0.006	12438180H	0.5000	0.4990	
2	20.637	20.641	-0.004	11924807H	0.5000	0.4946	
						RPD = 0.89	
26 EPN							
1	22.692	22.698	-0.006	11612545H	0.5000	0.4915	
2	22.949	22.953	-0.004	13192601H	0.5000	0.4998	
						RPD = 1.68	
27 Famphur							
1	22.985	22.990	-0.005	13407085H	0.5000	0.4946	
2	21.574	21.580	-0.006	13094029H	0.5000	0.4953	
						RPD = 0.14	
28 Azinphos-methyl							
1	23.317	23.320	-0.003	10972854H	0.5000	0.4849	
2	24.139	24.144	-0.005	12383628H	0.5000	0.4899	
						RPD = 1.04	
29 Coumaphos							
1	25.950	25.955	-0.005	12315776H	0.5000	0.5088	
2	25.382	25.386	-0.004	13866624H	0.5000	0.4966	
						RPD = 2.43	
S 30 Demeton, Total							
1					0.5000	0.5021	
2					0.5000	0.4972	
						RPD = 0.99	

Reagents:

GCOPPLEVEL2_00001 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:17:12 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321006.D				
Injection Date:	21-Mar-2018 09:16:22	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	IC			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

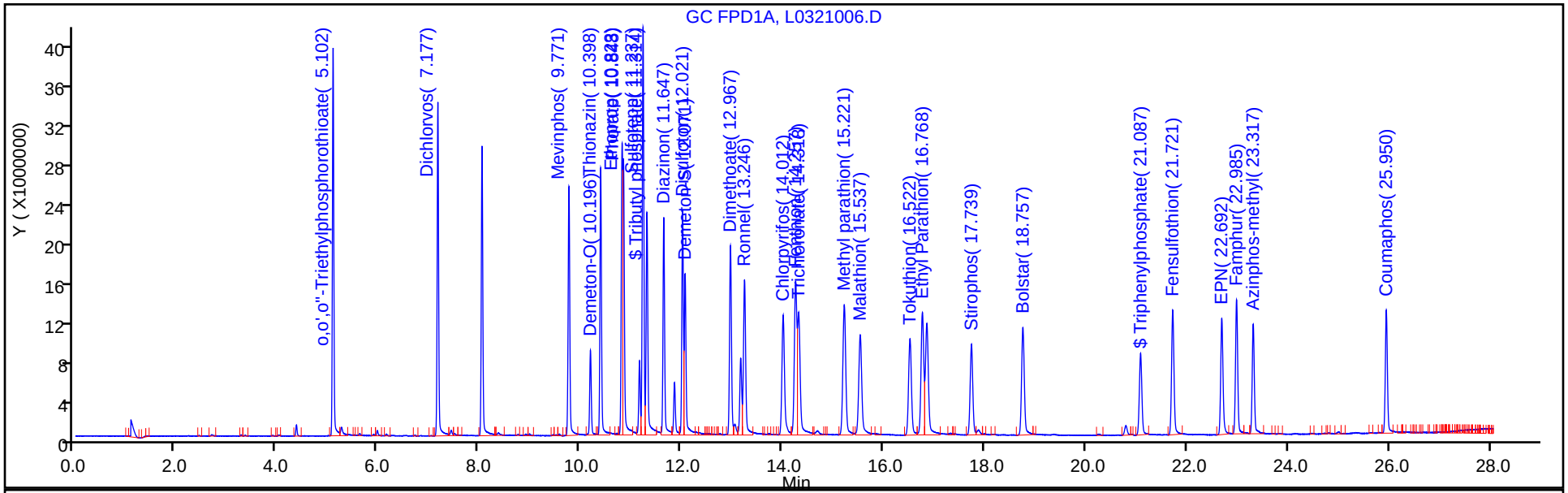

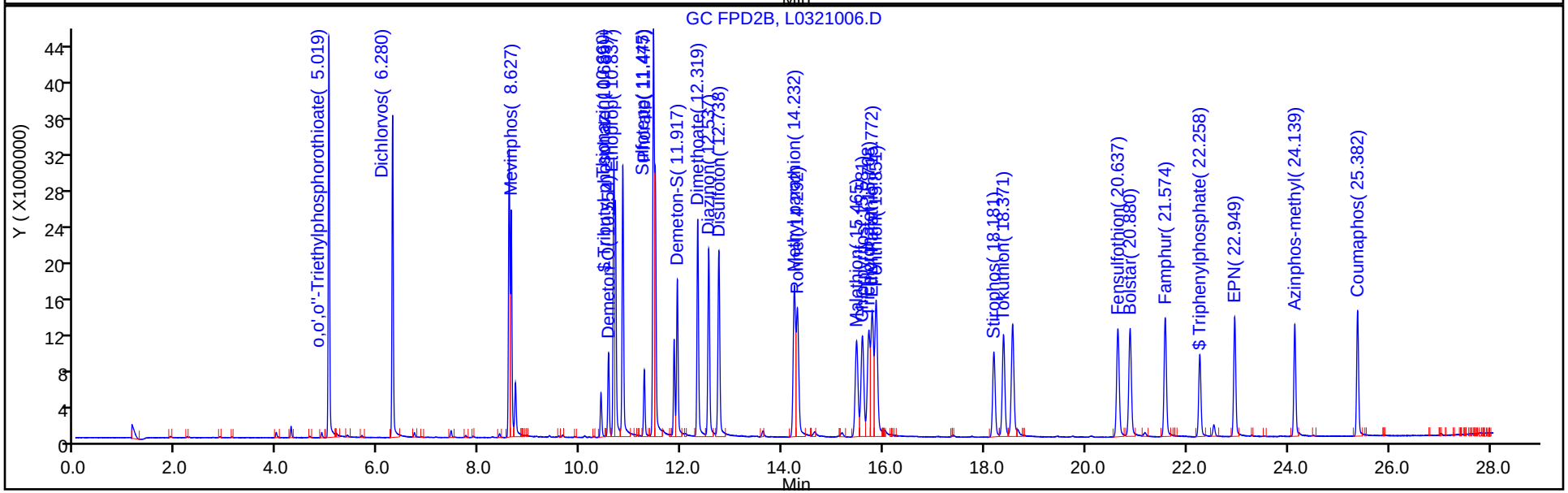

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321007.D
Lims ID: ICRT
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 21-Mar-2018 09:49:20 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020992-003
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 22-Mar-2018 08:17:03 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK016

First Level Reviewer: oravecj Date: 21-Mar-2018 13:18:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.316	11.319	-0.003	44628477H	1.00	0.9809	
2	10.688	10.694	-0.006	53244354H	1.00	0.99	
						RPD = 1.15	
$ 2 Triphenylphosphate							
1	21.086	21.092	-0.006	16435853H	1.00	0.9741	
2	22.258	22.264	-0.006	18690485H	1.00	0.9844	
						RPD = 1.06	
3 o,o',o''-Triethylphosphorothioate							
1	5.103	5.105	-0.002	78392076H	1.00	1.00	
2	5.020	5.023	-0.003	89037621H	1.00	1.00	
						RPD = 0.29	
4 Dichlorvos							
1	7.177	7.179	-0.002	66530767H	1.00	0.99	
2	6.281	6.284	-0.003	71165271H	1.00	1.00	
						RPD = 0.30	
5 Mevinphos							
1	9.772	9.774	-0.002	50765314H	1.00	1.01	
2	8.628	8.631	-0.003	50356238H	1.00	1.00	
						RPD = 0.92	
6 Demeton-O							
1	10.197	10.200	-0.003	16846722H	0.3400	0.3405	
2	10.556	10.559	-0.003	18561635H	0.3400	0.3412	
						RPD = 0.21	
7 Thionazin							
1	10.400	10.403	-0.003	55029146H	1.00	1.03	
2	10.662	10.665	-0.003	62506368H	1.00	1.02	
						RPD = 1.40	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.823	10.827	-0.004	57807649H	1.00	1.00	
2	10.838	10.842	-0.004	59668612H	1.00	1.01	
						RPD = 0.62	
9 Phorate							
1	10.850	10.854	-0.004	54530307H	1.00	1.01	
2	11.478	11.482	-0.004	58976576H	1.00	1.01	
						RPD = 0.52	
10 Sulfotepp							
1	11.239	11.241	-0.002	80925598H	1.00	1.00	
2	11.447	11.450	-0.003	91785159H	1.00	1.01	
						RPD = 1.46	
11 Diazinon							
1	11.648	11.652	-0.004	41559264H	1.00	0.9799	
2	12.540	12.544	-0.004	40332471H	1.00	1.00	
						RPD = 1.72	
12 Disulfoton							
1	12.022	12.025	-0.003	44201505H	1.00	1.00	
2	12.739	12.744	-0.005	40927593H	1.00	1.01	
						RPD = 0.86	
13 Demeton-S							
1	12.071	12.075	-0.004	32563386H	0.6600	0.6684	
2	11.916	11.920	-0.004	35555288H	0.6600	0.6688	
						RPD = 0.05	
14 Dimethoate							
1	12.969	12.973	-0.004	40176448H	1.00	1.03	
2	12.322	12.325	-0.003	51050029H	1.00	1.02	
						RPD = 0.19	
15 Ronnel							
1	13.247	13.253	-0.006	30207519H	1.00	0.9881	
2	14.295	14.300	-0.005	28040328H	1.00	1.00	
						RPD = 0.72	
16 Chlorpyrifos							
1	14.013	14.018	-0.005	23008160H	1.00	0.9826	
2	15.581	15.589	-0.008	21987751H	1.00	1.00	
						RPD = 1.60	
17 Fenthion							
1	14.261	14.266	-0.005	29703150H	1.00	0.9885	
2	15.855	15.860	-0.005	29579491H	1.00	0.99	
						RPD = 0.64	
18 Trichloronate							
1	14.317	14.325	-0.008	23644079H	1.00	0.99	
2	15.710	15.716	-0.006	23101196H	1.00	1.00	
						RPD = 0.58	
19 Methyl parathion							
1	15.223	15.230	-0.007	26051755H	1.00	1.00	
2	14.237	14.242	-0.005	32728046H	1.00	0.99	
						RPD = 0.75	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	15.535	15.544	-0.009	20037214H	1.00	1.00	
2	15.467	15.473	-0.006	21309960H	1.00	1.01	
						RPD = 0.78	
21 Tokuthion							
1	16.523	16.529	-0.006	18797273H	1.00	0.99	
2	18.374	18.382	-0.008	21974894H	1.00	1.00	
						RPD = 0.64	
22 Ethyl Parathion							
1	16.768	16.775	-0.007	24905189H	1.00	1.01	
2	15.775	15.783	-0.008	28030029H	1.00	1.01	
						RPD = 0.68	
23 Stirophos							
1	17.738	17.745	-0.007	18087189H	1.00	1.00	
2	18.184	18.189	-0.005	18917793H	1.00	1.00	
						RPD = 0.10	
24 Bolstar							
1	18.756	18.762	-0.006	20927762H	1.00	0.99	
2	20.877	20.884	-0.007	23670308H	1.00	1.00	
						RPD = 0.88	
25 Fensulfothion							
1	21.721	21.727	-0.006	24829487H	1.00	1.00	
2	20.637	20.641	-0.004	24533807H	1.00	1.02	
						RPD = 2.13	
26 EPN							
1	22.693	22.698	-0.005	23864536H	1.00	1.01	
2	22.948	22.953	-0.005	26415952H	1.00	1.00	
						RPD = 0.92	
27 Famphur							
1	22.986	22.990	-0.004	27119203H	1.00	1.00	
2	21.574	21.580	-0.006	26425021H	1.00	1.00	
						RPD = 0.09	
28 Azinphos-methyl							
1	23.315	23.320	-0.005	22710262H	1.00	1.00	
2	24.138	24.144	-0.006	25406256H	1.00	1.01	
						RPD = 0.16	
29 Coumaphos							
1	25.952	25.955	-0.003	24072784H	1.00	0.99	
2	25.381	25.386	-0.005	27643591H	1.00	0.9899	
						RPD = 0.46	
S 30 Demeton, Total							
1					1.00	1.01	
2					1.00	1.01	
						RPD = 0.10	

Reagents:

GCOPPLEVEL3_00001 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:17:03 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321007.D				
Injection Date:	21-Mar-2018 09:49:20	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	ICRT			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

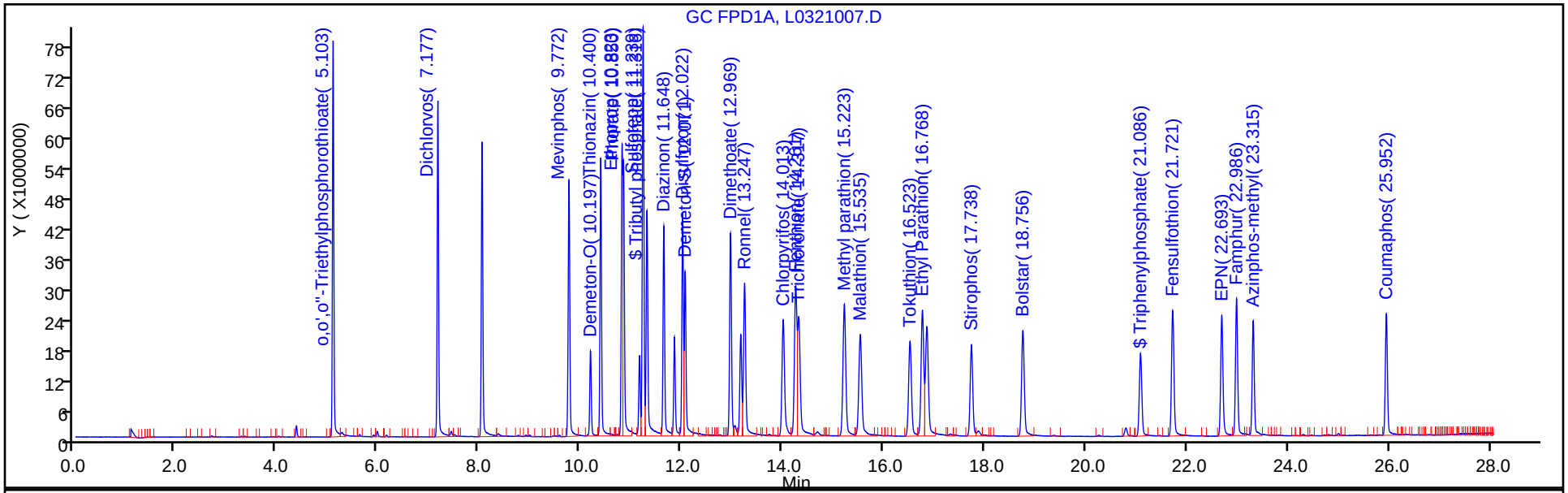

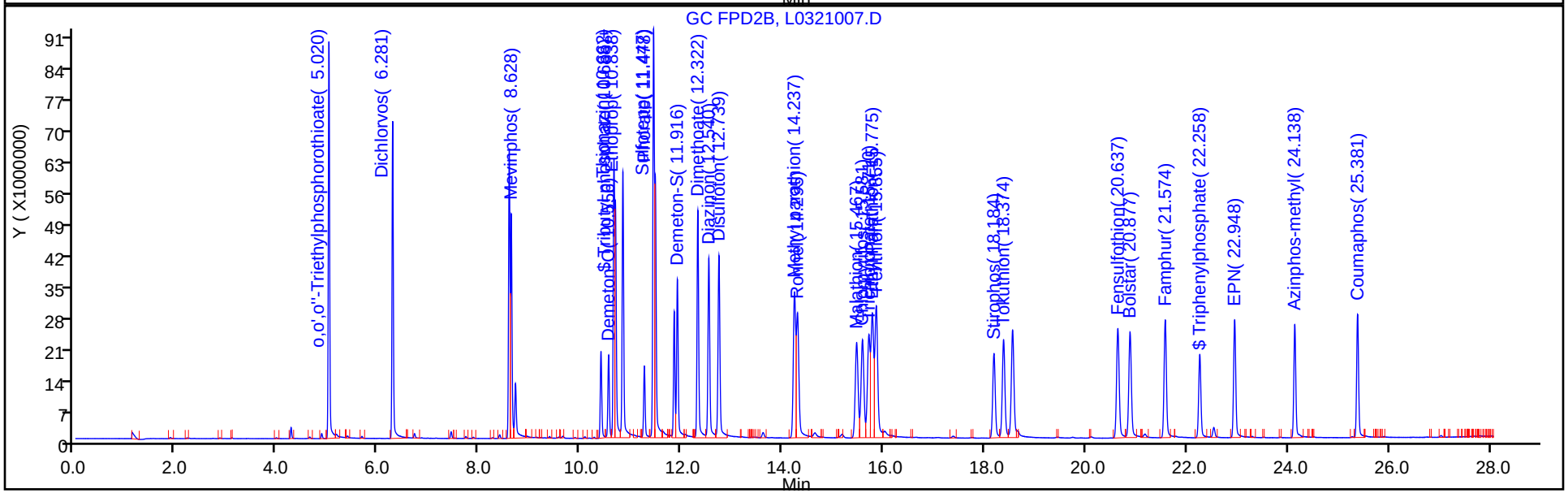

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321008.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 21-Mar-2018 10:22:25 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020992-004
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 22-Mar-2018 08:16:57 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK016

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.319	11.319	0.000	89806415H	2.00	1.97	
2	10.694	10.694	0.000	107314054H	2.00	2.00	
						RPD = 1.30	
$ 2 Triphenylphosphate							
1	21.092	21.092	0.000	34131333H	2.00	2.02	
2	22.264	22.264	0.000	38446199H	2.00	2.02	
						RPD = 0.11	
3 o,o',o''-Triethylphosphorothioate							
1	5.105	5.105	0.000	152496922H	2.00	1.95	
2	5.023	5.023	0.000	174142902H	2.00	1.95	
						RPD = 0.24	
4 Dichlorvos							
1	7.179	7.179	0.000	131396065H	2.00	1.96	
2	6.284	6.284	0.000	140335390H	2.00	1.97	
						RPD = 0.15	
5 Mevinphos							
1	9.774	9.774	0.000	100996102H	2.00	2.02	
2	8.631	8.631	0.000	101761653H	2.00	2.03	
						RPD = 0.64	
6 Demeton-O							
1	10.200	10.200	0.000	33266235H	0.6800	0.6723	
2	10.559	10.559	0.000	36952900H	0.6800	0.6792	
						RPD = 1.02	
7 Thionazin							
1	10.403	10.403	0.000	103707780H	2.00	1.95	
2	10.665	10.665	0.000	120499095H	2.00	1.96	
						RPD = 0.87	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.827	10.827	0.000	113720487H	2.00	1.97	
2	10.842	10.842	0.000	117588194H	2.00	1.98	
						RPD = 0.80	
9 Phorate							
1	10.854	10.854	0.000	106404680H	2.00	1.97	
2	11.482	11.482	0.000	115943148H	2.00	1.98	
						RPD = 0.23	
10 Sulfotepp							
1	11.241	11.241	0.000	161529094H	2.00	1.99	
2	11.450	11.450	0.000	179536795H	2.00	1.98	
						RPD = 0.56	
11 Diazinon							
1	11.652	11.652	0.000	84068890H	2.00	1.98	
2	12.544	12.544	0.000	80835035H	2.00	2.00	
						RPD = 0.79	
12 Disulfoton							
1	12.025	12.025	0.000	87482331H	2.00	1.98	
2	12.744	12.744	0.000	80750209H	2.00	1.99	
						RPD = 0.55	
13 Demeton-S							
1	12.075	12.075	0.000	65503323H	1.32	1.34	
2	11.920	11.920	0.000	71856761H	1.32	1.35	
						RPD = 0.52	
14 Dimethoate							
1	12.973	12.973	0.000	84047975H	2.00	2.15	
2	12.325	12.325	0.000	107775994H	2.00	2.16	
						RPD = 0.73	
15 Ronnel							
1	13.253	13.253	0.000	61477543H	2.00	2.01	
2	14.300	14.300	0.000	56396898H	2.00	2.00	
						RPD = 0.46	
16 Chlorpyrifos							
1	14.018	14.018	0.000	46628269H	2.00	1.99	
2	15.589	15.589	0.000	43958803H	2.00	2.00	
						RPD = 0.24	
17 Fenthion							
1	14.266	14.266	0.000	59774429H	2.00	1.99	
2	15.860	15.860	0.000	59697504H	2.00	2.01	
						RPD = 0.93	
18 Trichloronate							
1	14.325	14.325	0.000	46960029H	2.00	1.97	
2	15.716	15.716	0.000	46586048H	2.00	2.01	
						RPD = 2.11	
19 Methyl parathion							
1	15.230	15.230	0.000	52184695H	2.00	2.00	
2	14.242	14.242	0.000	66574547H	2.00	2.02	
						RPD = 0.79	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	15.544	15.544	0.000	40119020H	2.00	2.01	
2	15.473	15.473	0.000	42193018H	2.00	2.00	
						RPD = 0.33	
21 Tokuthion							
1	16.529	16.529	0.000	37584686H	2.00	1.98	
2	18.382	18.382	0.000	43583419H	2.00	1.98	
						RPD = 0.17	
22 Ethyl Parathion							
1	16.775	16.775	0.000	48428796H	2.00	1.97	
2	15.783	15.783	0.000	55697366H	2.00	2.00	
						RPD = 1.48	
23 Stirophos							
1	17.745	17.745	0.000	36992711H	2.00	2.04	
2	18.189	18.189	0.000	38780752H	2.00	2.05	
						RPD = 0.33	
24 Bolstar							
1	18.762	18.762	0.000	41900561H	2.00	1.99	
2	20.884	20.884	0.000	47594801H	2.00	2.02	
						RPD = 1.31	
25 Fensulfothion							
1	21.727	21.727	0.000	53347257H	2.00	2.14	
2	20.641	20.641	0.000	51861570H	2.00	2.15	
						RPD = 0.50	
26 EPN							
1	22.698	22.698	0.000	47977030H	2.00	2.03	
2	22.953	22.953	0.000	53792403H	2.00	2.04	
						RPD = 0.37	
27 Famphur							
1	22.990	22.990	0.000	55041686H	2.00	2.03	
2	21.580	21.580	0.000	53774512H	2.00	2.03	
						RPD = 0.17	
28 Azinphos-methyl							
1	23.320	23.320	0.000	48460752H	2.00	2.14	
2	24.144	24.144	0.000	53228184H	2.00	2.11	
						RPD = 1.67	
29 Coumaphos							
1	25.955	25.955	0.000	48377501H	2.00	2.00	
2	25.386	25.386	0.000	57270682H	2.00	2.05	
						RPD = 2.59	
S 30 Demeton, Total							
1					2.00	2.02	
2					2.00	2.03	
						RPD = 0.69	

Reagents:

GCOPPLEVEL4_00001 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:16:58 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321008.D				
Injection Date:	21-Mar-2018 10:22:25	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

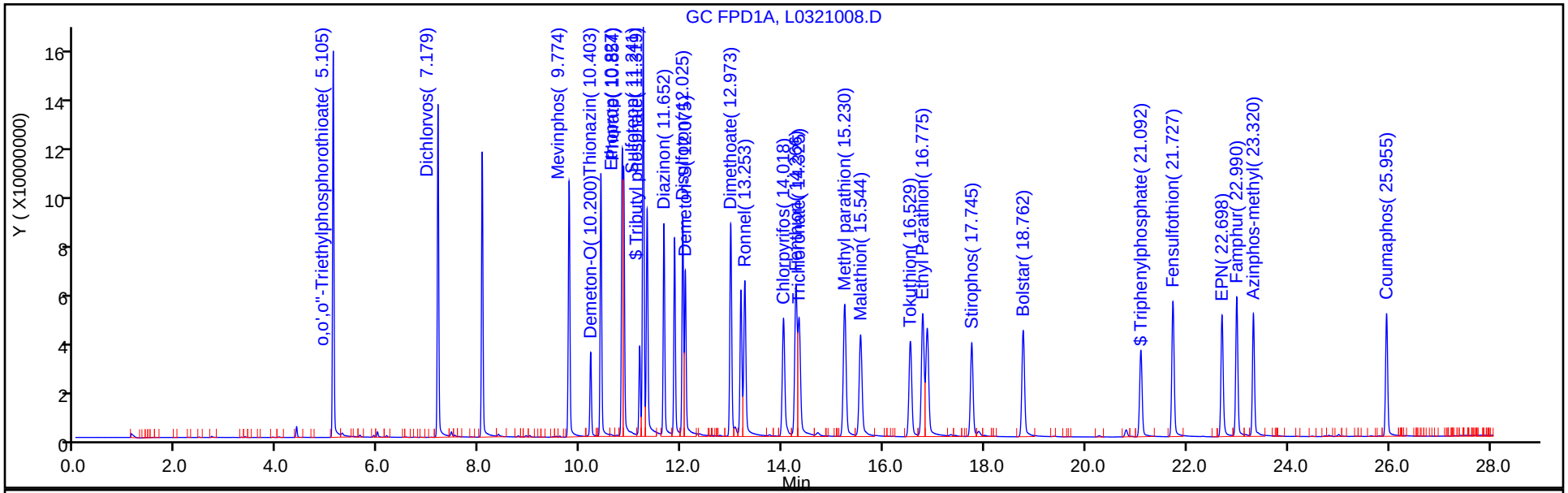

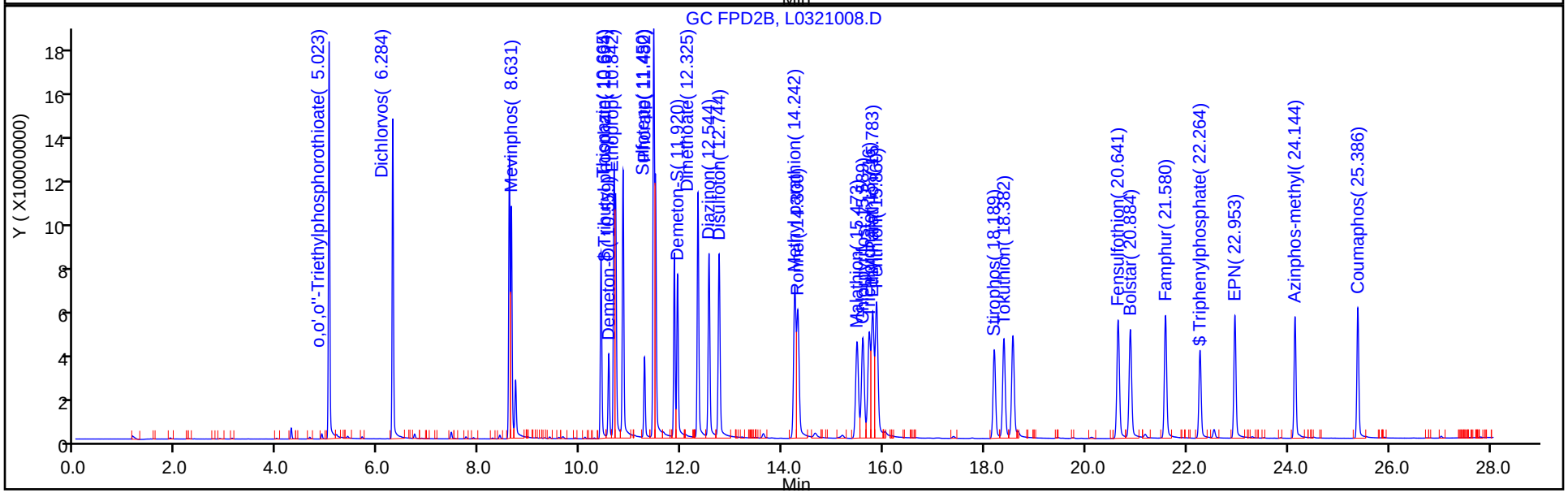

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 21-Mar-2018 10:55:20 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020992-005
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 22-Mar-2018 08:16:53 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK016

First Level Reviewer: oravecj Date: 22-Mar-2018 08:16:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.317	11.319	-0.002	162855641H	4.00	3.58	
2	10.692	10.694	-0.002	196555986H	4.00	3.66	
						RPD = 2.30	
$ 2 Triphenylphosphate							
1	21.090	21.092	-0.002	65235370H	4.00	3.87	
2	22.263	22.264	-0.001	73611754H	4.00	3.88	
						RPD = 0.29	
3 o,o',o''-Triethylphosphorothioate							
1	5.105	5.105	0.000	309535776H	4.00	3.95	
2	5.023	5.023	0.000	351634599H	4.00	3.94	
						RPD = 0.28	
4 Dichlorvos							
1	7.178	7.179	-0.001	262569972H	4.00	3.93	
2	6.283	6.284	-0.001	280137578H	4.00	3.93	
						RPD = 0.04	
5 Mevinphos							
1	9.774	9.774	0.000	206215964H	4.00	4.11	
2	8.632	8.631	0.001	202703197H	4.00	4.04	
						RPD = 1.83	
6 Demeton-O							
1	10.200	10.200	0.000	64989426H	1.36	1.31	
2	10.559	10.559	0.000	71845219H	1.36	1.32	
						RPD = 0.54	
7 Thionazin							
1	10.402	10.403	-0.001	204181067H	4.00	3.83	
2	10.665	10.665	0.000	238976604H	4.00	3.89	
						RPD = 1.60	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.824	10.827	-0.003	221520698H	4.00	3.83	
2	10.842	10.842	0.000	229044270H	4.00	3.86	
						RPD = 0.79	
9 Phorate							
1	10.853	10.854	-0.001	201102975H	4.00	3.73	
2	11.482	11.482	0.000	219243901H	4.00	3.74	
						RPD = 0.28	
10 Sulfotepp							
1	11.242	11.241	0.001	313038831H	4.00	3.86	
2	11.449	11.450	-0.001	352900651H	4.00	3.89	
						RPD = 0.86	
11 Diazinon							
1	11.651	11.652	-0.001	161860599H	4.00	3.82	
2	12.543	12.544	-0.001	153485439H	4.00	3.79	
						RPD = 0.60	
12 Disulfoton							
1	12.024	12.025	-0.001	169343509H	4.00	3.83	
2	12.743	12.744	-0.001	153901646H	4.00	3.79	
						RPD = 1.01	
13 Demeton-S							
1	12.073	12.075	-0.002	125785604H	2.64	2.58	
2	11.920	11.920	0.000	140256529H	2.64	2.64	
						RPD = 2.15	
14 Dimethoate							
1	12.973	12.973	0.000	167859727H	4.00	4.28	
2	12.325	12.325	0.000	213449833H	4.00	4.28	
						RPD = 0.11	
15 Ronnel							
1	13.250	13.253	-0.003	119314761H	4.00	3.90	
2	14.302	14.300	0.002	109051205H	4.00	3.87	
						RPD = 0.83	
16 Chlorpyrifos							
1	14.017	14.018	-0.001	89481517H	4.00	3.82	
2	15.588	15.589	-0.001	84868441H	4.00	3.85	
						RPD = 0.84	
17 Fenthion							
1	14.265	14.266	-0.001	114343499H	4.00	3.81	
2	15.860	15.860	0.000	114584327H	4.00	3.85	
						RPD = 1.27	
18 Trichloronate							
1	14.325	14.325	0.000	90258807H	4.00	3.78	
2	15.717	15.716	0.001	89153099H	4.00	3.84	
						RPD = 1.67	
19 Methyl parathion							
1	15.225	15.230	-0.005	102538632H	4.00	3.94	
2	14.242	14.242	0.000	130045547H	4.00	3.94	
						RPD = 0.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	15.542	15.544	-0.002	77333552H	4.00	3.87	
2	15.474	15.473	0.001	82093133H	4.00	3.89	
						RPD = 0.60	
21 Tokuthion							
1	16.528	16.529	-0.001	71665483H	4.00	3.78	
2	18.380	18.382	-0.002	84559083H	4.00	3.84	
						RPD = 1.57	
22 Ethyl Parathion							
1	16.772	16.775	-0.003	94927355H	4.00	3.87	
2	15.782	15.783	-0.001	108517268H	4.00	3.90	
						RPD = 0.88	
23 Stirophos							
1	17.742	17.745	-0.003	72358909H	4.00	3.99	
2	18.192	18.189	0.003	76950974H	4.00	4.06	
						RPD = 1.76	
24 Bolstar							
1	18.762	18.762	0.000	80167167H	4.00	3.81	
2	20.882	20.884	-0.002	89235012H	4.00	3.78	
						RPD = 0.71	
25 Fensulfothion							
1	21.726	21.727	-0.001	103899415H	4.00	4.17	
2	20.642	20.641	0.001	101017770H	4.00	4.19	
						RPD = 0.51	
26 EPN							
1	22.698	22.698	0.000	97023283H	4.00	4.11	
2	22.953	22.953	0.000	107087359H	4.00	4.06	
						RPD = 1.21	
27 Famphur							
1	22.990	22.990	0.000	109998984H	4.00	4.06	
2	21.580	21.580	0.000	106172097H	4.00	4.02	
						RPD = 1.04	
28 Azinphos-methyl							
1	23.319	23.320	-0.001	95630844H	4.00	4.23	
2	24.142	24.144	-0.002	107222645H	4.00	4.24	
						RPD = 0.39	
29 Coumaphos							
1	25.954	25.955	-0.001	96525697H	4.00	3.99	
2	25.386	25.386	0.000	112349977H	4.00	4.02	
						RPD = 0.89	
S 30 Demeton, Total							
1					4.00	3.90	
2					4.00	3.96	
						RPD = 1.61	

Reagents:

GCOPPLEVEL5_00001 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:16:54 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D				
Injection Date:	21-Mar-2018 10:55:20	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	IC			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

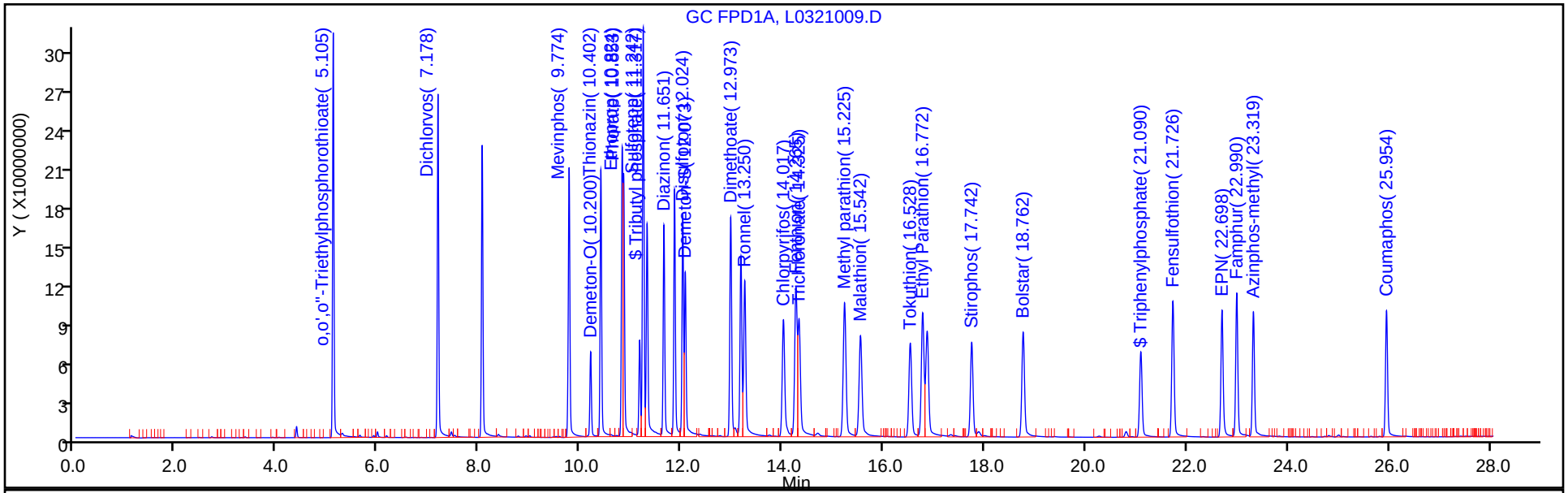

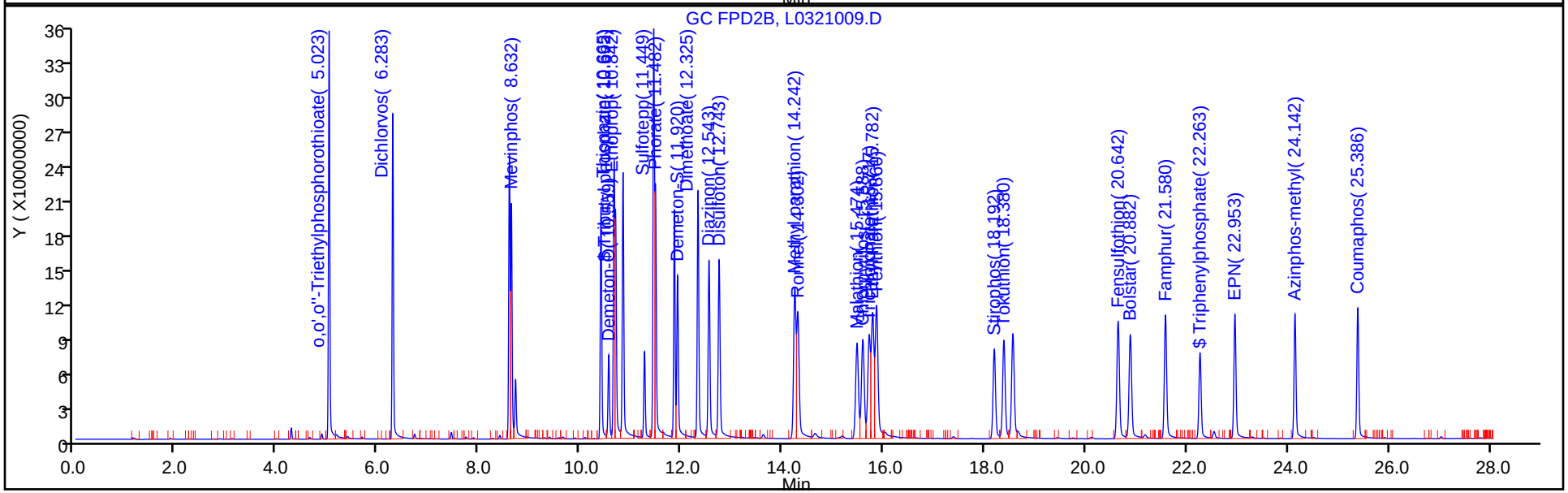

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1 Analy Batch No.: 240093

SDG No.:

Instrument ID: CHGC5 GC Column: RTX-OPP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 08:43 Calibration End Date: 03/21/2018 10:55 Calibration ID: 37535

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240093/1	L0321005.D
Level 2	IC 180-240093/2	L0321006.D
Level 3	ICRT 180-240093/3	L0321007.D
Level 4	IC 180-240093/4	L0321008.D
Level 5	IC 180-240093/5	L0321009.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
O,O,O-Triethyl phosphorothioate	5.020	5.019	5.020	5.023	5.023						4.993 - 5.053	5.021
Dichlorvos	6.281	6.280	6.281	6.284	6.283						6.254 - 6.314	6.282
Mevinphos	8.628	8.627	8.628	8.631	8.632						8.601 - 8.661	8.629
Demeton-O	10.555	10.554	10.556	10.559	10.559						10.529 - 10.589	10.557
Thionazin	10.661	10.660	10.662	10.665	10.665						10.635 - 10.695	10.663
Mocap	10.838	10.837	10.838	10.842	10.842						10.812 - 10.872	10.839
Sulfotepp	11.446	11.445	11.447	11.450	11.449						11.420 - 11.480	11.447
Phorate	11.477	11.477	11.478	11.482	11.482						11.452 - 11.512	11.479
Demeton-S	11.916	11.917	11.916	11.920	11.920						11.890 - 11.950	11.918
Dimethoate	12.319	12.319	12.322	12.325	12.325						12.295 - 12.355	12.322
Diazinon	12.539	12.537	12.540	12.544	12.543						12.514 - 12.574	12.541
Disulfoton	12.737	12.738	12.739	12.744	12.743						12.714 - 12.774	12.740
Methyl parathion	14.236	14.232	14.237	14.242	14.242						14.212 - 14.272	14.238
Ronnel	14.292	14.292	14.295	14.300	14.302						14.270 - 14.330	14.296
Malathion	15.463	15.465	15.467	15.473	15.474						15.443 - 15.503	15.468
Chlorpyrifos	15.581	15.581	15.581	15.589	15.588						15.559 - 15.619	15.584
Trichloronate	15.708	15.708	15.710	15.716	15.717						15.686 - 15.746	15.712
Parathion	15.772	15.772	15.775	15.783	15.782						15.753 - 15.813	15.777
Fenthion	15.850	15.851	15.855	15.860	15.860						15.830 - 15.890	15.855
Stirophos	18.182	18.181	18.184	18.189	18.192						18.159 - 18.219	18.186
Tokuthion	18.372	18.371	18.374	18.382	18.380						18.352 - 18.412	18.376
Fensulfothion	20.635	20.637	20.637	20.641	20.642						20.611 - 20.671	20.638
Bolstar	20.877	20.880	20.877	20.884	20.882						20.854 - 20.914	20.880
Famphur	21.572	21.574	21.574	21.580	21.580						21.550 - 21.610	21.576
EPN	22.947	22.949	22.948	22.953	22.953						22.923 - 22.983	22.950
Azinphos-methyl	24.138	24.139	24.138	24.144	24.142						24.114 - 24.174	24.140
Coumaphos	25.381	25.382	25.381	25.386	25.386						25.356 - 25.416	25.383
Tributyl phosphate	10.689	10.689	10.688	10.694	10.692						10.664 - 10.724	10.690
Triphenylphosphate	22.257	22.258	22.258	22.264	22.263						22.234 - 22.294	22.260

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1 Analy Batch No.: 240093

SDG No.:

Instrument ID: CHGC5 GC Column: RTX-OPP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 08:43 Calibration End Date: 03/21/2018 10:55 Calibration ID: 37535

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240093/1	L0321005.D
Level 2	IC 180-240093/2	L0321006.D
Level 3	ICRT 180-240093/3	L0321007.D
Level 4	IC 180-240093/4	L0321008.D
Level 5	IC 180-240093/5	L0321009.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
O,O,O-Triethyl phosphorothioate	93149810 87908650	88750618	89037621	87071451	Ave		89183630.0				2.6		20.0			
Dichlorvos	73967900 70034395	71245948	71165271	70167695	Ave		71316241.7				2.2		20.0			
Mevinphos	48764955 50675799	50181090	50356238	50880827	Ave		50171781.8				1.7		20.0			
Demeton-O	55751912 52827367	54523506	54593044	54342500	Ave		54407665.7				1.9		20.0			
Thionazin	63376200 59744151	61171800	62506368	60249548	Ave		61409613.3				2.5		20.0			
Mocap	60682310 57261068	59954918	59668612	58794097	Ave		59272200.9				2.2		20.0			
Sulfotepp	93323855 88225163	90203676	91785159	89768398	Ave		90661250.1				2.2		20.0			
Phorate	61680190 54810975	59867808	58976576	57971574	Ave		58661424.7				4.3		20.0			
Demeton-S	51734848 53127473	52657973	53871648	54436940	Ave		53165776.6				2.0		20.0			
Dimethoate	42995230 53362458	48099376	51050029	53887997	Ave		49879018.1				9.0		20.0			
Diazinon	41586215 38371360	41582484	40332471	40417518	Ave		40458009.5				3.2		20.0			
Disulfoton	41908180 38475412	41140628	40927593	40375105	Ave		40565383.4				3.2		20.0			
Methyl parathion	33051795 32511387	33251512	32728046	33287274	Ave		32966002.7				1.0		20.0			
Ronnel	28894980 27262801	28477414	28040328	28198449	Ave		28174794.5				2.1		20.0			
Malathion	21333815 20523283	21192670	21309960	21096509	Ave		21091247.5				1.6		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1 Analy Batch No.: 240093

SDG No.:

Instrument ID: CHGC5 GC Column: RTX-OPP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 08:43 Calibration End Date: 03/21/2018 10:55 Calibration ID: 37535

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Chlorpyrifos	22706385 21217110	22218654	21987751	21979402	Ave		22021860.4				2.4		20.0			
Trichloronate	23755800 22288275	23498332	23101196	23293024	Ave		23187325.4				2.4		20.0			
Parathion	28306730 27129317	27717992	28030029	27848683	Ave		27806550.2				1.6		20.0			
Fenthion	30450550 28646082	30134152	29579491	29848752	Ave		29731805.4				2.3		20.0			
Stirophos	18403010 19237744	18739270	18917793	19390376	Ave		18937638.5				2.1		20.0			
Tokuthion	22594770 21139771	22509786	21974894	21791710	Ave		22002186.1				2.7		20.0			
Fensulfothion	20973735 25254443	23849614	24533807	25930785	Ave		24108476.7				8.0		20.0			
Bolstar	24342810 22308753	23816942	23670308	23797401	Ave		23587242.7				3.2		20.0			
Famphur	26140270 26543024	26188058	26425021	26887256	Ave		26436725.9				1.1		20.0			
EPN	25512210 26771840	26385202	26415952	26896202	Ave		26396281.1				2.1		20.0			
Azinphos-methyl	22792400 26805661	24767256	25406256	26614092	Ave		25277133.1				6.4		20.0			
Coumaphos	27524500 28087494	27733248	27643591	28635341	Ave		27924834.9				1.6		20.0			
Tributyl phosphate	60028215 49138997	52240136	53244354	53657027	Ave		53661745.7				7.4		20.0			
Triphenylphosphate	20487760 18402939	18126164	18690485	19223100	Ave		18986089.4				4.9		20.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1 Analy Batch No.: 240093

SDG No.:

Instrument ID: CHGC5 GC Column: RTX-OPP2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/21/2018 08:43 Calibration End Date: 03/21/2018 10:55 Calibration ID: 37535

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-240093/1	L0321005.D
Level 2	IC 180-240093/2	L0321006.D
Level 3	ICRT 180-240093/3	L0321007.D
Level 4	IC 180-240093/4	L0321008.D
Level 5	IC 180-240093/5	L0321009.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
O,O,O-Triethyl phosphorothioate	Ave	18629962	44375309	89037621	174142902	351634599	0.200	0.500	1.00	2.00	4.00
Dichlorvos	Ave	14793580	35622974	71165271	140335390	280137578	0.200	0.500	1.00	2.00	4.00
Mevinphos	Ave	9752991	25090545	50356238	101761653	202703197	0.200	0.500	1.00	2.00	4.00
Demeton-O	Ave	3791130	9268996	18561635	36952900	71845219	0.0680	0.170	0.340	0.680	1.36
Thionazin	Ave	12675240	30585900	62506368	120499095	238976604	0.200	0.500	1.00	2.00	4.00
Mocap	Ave	12136462	29977459	59668612	117588194	229044270	0.200	0.500	1.00	2.00	4.00
Sulfotepp	Ave	18664771	45101838	91785159	179536795	352900651	0.200	0.500	1.00	2.00	4.00
Phorate	Ave	12336038	29933904	58976576	115943148	219243901	0.200	0.500	1.00	2.00	4.00
Demeton-S	Ave	6829000	17377131	35555288	71856761	140256529	0.132	0.330	0.660	1.32	2.64
Dimethoate	Ave	8599046	24049688	51050029	107775994	213449833	0.200	0.500	1.00	2.00	4.00
Diazinon	Ave	8317243	20791242	40332471	80835035	153485439	0.200	0.500	1.00	2.00	4.00
Disulfoton	Ave	8381636	20570314	40927593	80750209	153901646	0.200	0.500	1.00	2.00	4.00
Methyl parathion	Ave	6610359	16625756	32728046	66574547	130045547	0.200	0.500	1.00	2.00	4.00
Ronnel	Ave	5778996	14238707	28040328	56396898	109051205	0.200	0.500	1.00	2.00	4.00
Malathion	Ave	4266763	10596335	21309960	42193018	82093133	0.200	0.500	1.00	2.00	4.00
Chlorpyrifos	Ave	4541277	11109327	21987751	43958803	84868441	0.200	0.500	1.00	2.00	4.00
Trichloronate	Ave	4751160	11749166	23101196	46586048	89153099	0.200	0.500	1.00	2.00	4.00
Parathion	Ave	5661346	13858996	28030029	55697366	108517268	0.200	0.500	1.00	2.00	4.00
Fenthion	Ave	6090110	15067076	29579491	59697504	114584327	0.200	0.500	1.00	2.00	4.00
Stirophos	Ave	3680602	9369635	18917793	38780752	76950974	0.200	0.500	1.00	2.00	4.00
Tokuthion	Ave	4518954	11254893	21974894	43583419	84559083	0.200	0.500	1.00	2.00	4.00
Fensulfothion	Ave	4194747	11924807	24533807	51861570	101017770	0.200	0.500	1.00	2.00	4.00
Bolstar	Ave	4868562	11908471	23670308	47594801	89235012	0.200	0.500	1.00	2.00	4.00
Famphur	Ave	5228054	13094029	26425021	53774512	106172097	0.200	0.500	1.00	2.00	4.00
EPN	Ave	5102442	13192601	26415952	53792403	107087359	0.200	0.500	1.00	2.00	4.00
Azinphos-methyl	Ave	4558480	12383628	25406256	53228184	107222645	0.200	0.500	1.00	2.00	4.00
Coumaphos	Ave	5504900	13866624	27643591	57270682	112349977	0.200	0.500	1.00	2.00	4.00
Tributyl phosphate	Ave	12005643	26120068	53244354	107314054	196555986	0.200	0.500	1.00	2.00	4.00
Triphenylphosphate	Ave	4097552	9063082	18690485	38446199	73611754	0.200	0.500	1.00	2.00	4.00

Curve Type Legend:
Ave = Average by Height

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321005.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 21-Mar-2018 08:43:17 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020992-001
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 22-Mar-2018 08:17:17 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK016

First Level Reviewer: oravecj Date: 22-Mar-2018 08:14:23

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.315	11.319	-0.004	10539426H	0.2000	0.2317	
2	10.689	10.694	-0.005	12005643H	0.2000	0.2237	
						RPD = 3.48	
$ 2 Triphenylphosphate							
1	21.086	21.092	-0.006	3643392H	0.2000	0.2159	
2	22.257	22.264	-0.007	4097552H	0.2000	0.2158	
						RPD = 0.05	
3 o,o',o''-Triethylphosphorothioate							
1	5.102	5.105	-0.003	16376709H	0.2000	0.2092	
2	5.020	5.023	-0.003	18629962H	0.2000	0.2089	
						RPD = 0.14	
4 Dichlorvos							
1	7.176	7.179	-0.003	13950293H	0.2000	0.2086	
2	6.281	6.284	-0.003	14793580H	0.2000	0.2074	
						RPD = 0.57	
5 Mevinphos							
1	9.771	9.774	-0.003	9591800H	0.2000	0.1914	
2	8.628	8.631	-0.003	9752991H	0.2000	0.1944	
						RPD = 1.55	
6 Demeton-O							
1	10.196	10.200	-0.004	3492326H	0.0680	0.0706	
2	10.555	10.559	-0.004	3791130H	0.0680	0.0697	
						RPD = 1.28	
7 Thionazin							
1	10.399	10.403	-0.004	11038964H	0.2000	0.2071	
2	10.661	10.665	-0.004	12675240H	0.2000	0.2064	
						RPD = 0.31	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							M
1	10.823	10.827	-0.004	12105263H	0.2000	0.2095	
2	10.838	10.842	-0.004	12136462H	0.2000	0.2048	
						RPD = 2.29	
9 Phorate							M
1	10.846	10.854	-0.008	11306958H	0.2000	0.2095	
2	11.477	11.482	-0.005	12336038H	0.2000	0.2103	
						RPD = 0.36	
10 Sulfotepp							
1	11.237	11.241	-0.004	16814987H	0.2000	0.2073	
2	11.446	11.450	-0.004	18664771H	0.2000	0.2059	
						RPD = 0.69	
11 Diazinon							
1	11.648	11.652	-0.004	8896516H	0.2000	0.2098	
2	12.539	12.544	-0.005	8317243H	0.2000	0.2056	
						RPD = 2.02	
12 Disulfoton							
1	12.021	12.025	-0.004	9158562H	0.2000	0.2073	
2	12.737	12.744	-0.007	8381636H	0.2000	0.2066	
						RPD = 0.31	
13 Demeton-S							
1	12.071	12.075	-0.004	6349522H	0.1320	0.1303	
2	11.916	11.920	-0.004	6829000H	0.1320	0.1284	
						RPD = 1.46	
14 Dimethoate							
1	12.969	12.973	-0.004	6778065H	0.2000	0.1730	
2	12.319	12.325	-0.006	8599046H	0.2000	0.1724	
						RPD = 0.34	
15 Ronnel							
1	13.248	13.253	-0.005	6215748H	0.2000	0.2033	
2	14.292	14.300	-0.008	5778996H	0.2000	0.2051	
						RPD = 0.88	
16 Chlorpyrifos							
1	14.011	14.018	-0.007	4875871H	0.2000	0.2082	
2	15.581	15.589	-0.008	4541277H	0.2000	0.2062	
						RPD = 0.98	
17 Fenthion							
1	14.258	14.266	-0.008	6260950H	0.2000	0.2084	
2	15.850	15.860	-0.010	6090110H	0.2000	0.2048	
						RPD = 1.70	
18 Trichloronate							
1	14.320	14.325	-0.005	5028796H	0.2000	0.2107	
2	15.708	15.716	-0.008	4751160H	0.2000	0.2049	
						RPD = 2.77	
19 Methyl parathion							
1	15.222	15.230	-0.008	5280334H	0.2000	0.2027	
2	14.236	14.242	-0.006	6610359H	0.2000	0.2005	
						RPD = 1.10	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	15.536	15.544	-0.008	4100772H	0.2000	0.2052	
2	15.463	15.473	-0.010	4266763H	0.2000	0.2023	
						RPD = 1.41	
21 Tokuthion							
1	16.519	16.529	-0.010	3981553H	0.2000	0.2102	
2	18.372	18.382	-0.010	4518954H	0.2000	0.2054	
						RPD = 2.32	
22 Ethyl Parathion							
1	16.766	16.775	-0.009	5073589H	0.2000	0.2068	
2	15.772	15.783	-0.011	5661346H	0.2000	0.2036	
						RPD = 1.54	
23 Stirophos							
1	17.739	17.745	-0.006	3557582H	0.2000	0.1963	
2	18.182	18.189	-0.007	3680602H	0.2000	0.1944	
						RPD = 0.99	
24 Bolstar							
1	18.757	18.762	-0.005	4351715H	0.2000	0.2068	
2	20.877	20.884	-0.007	4868562H	0.2000	0.2064	
						RPD = 0.21	
25 Fensulfothion							
1	21.722	21.727	-0.005	4453276H	0.2000	0.1787	
2	20.635	20.641	-0.006	4194747H	0.2000	0.1740	
						RPD = 2.65	
26 EPN							
1	22.694	22.698	-0.004	4562132H	0.2000	0.1931	
2	22.947	22.953	-0.006	5102442H	0.2000	0.1933	
						RPD = 0.12	
27 Famphur							
1	22.988	22.990	-0.002	5315262H	0.2000	0.1961	
2	21.572	21.580	-0.008	5228054H	0.2000	0.1978	
						RPD = 0.85	
28 Azinphos-methyl							
1	23.316	23.320	-0.004	4072598H	0.2000	0.1800	
2	24.138	24.144	-0.006	4558480H	0.2000	0.1803	
						RPD = 0.21	
29 Coumaphos							
1	25.949	25.955	-0.006	4801631H	0.2000	0.1984	
2	25.381	25.386	-0.005	5504900H	0.2000	0.1971	
						RPD = 0.62	
S 30 Demeton, Total							
1					0.2000	0.2009	
2					0.2000	0.1981	
						RPD = 1.40	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCOPPLEVEL1_00001 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:17:19 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321005.D				
Injection Date:	21-Mar-2018 08:43:17	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	IC			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

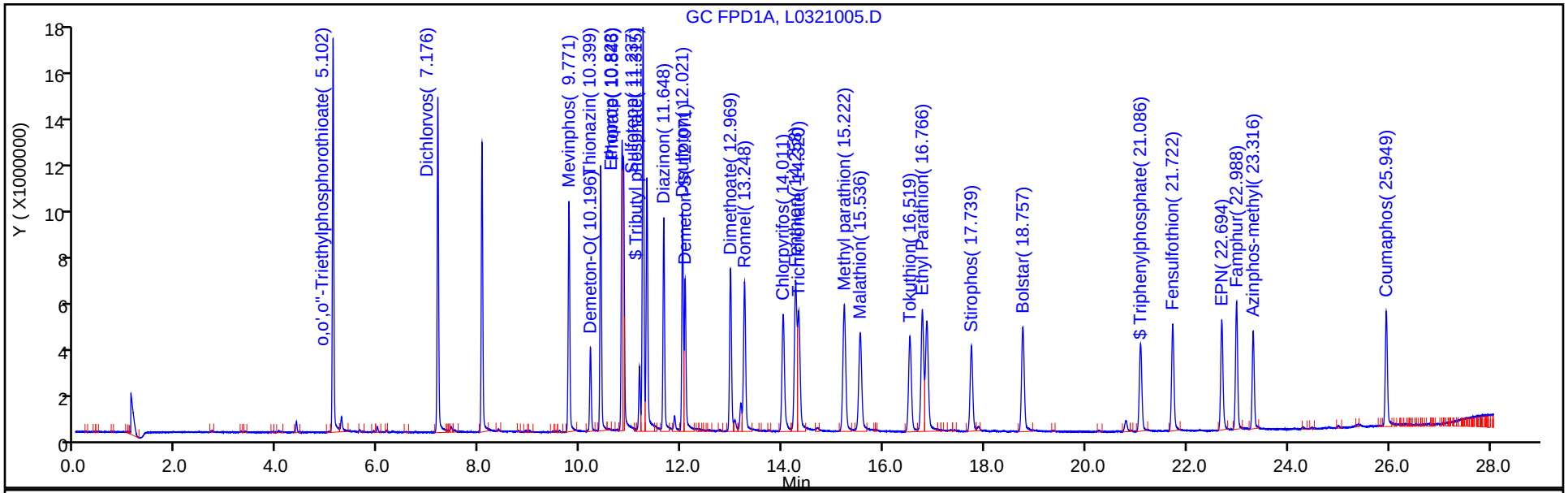

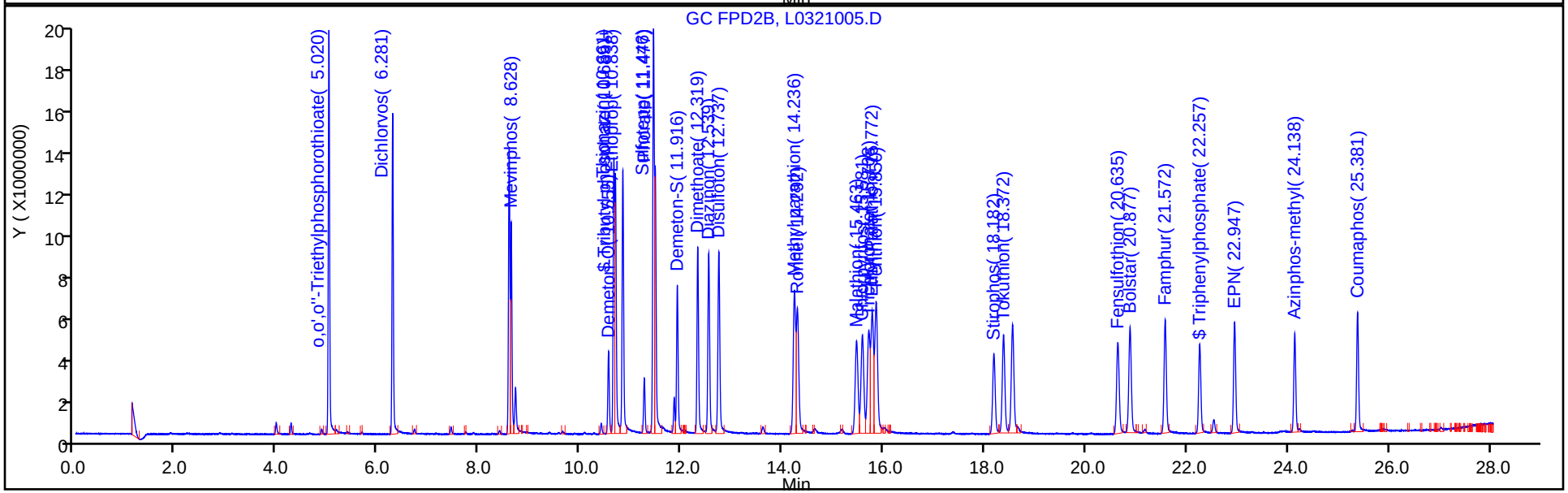

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321006.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 21-Mar-2018 09:16:22 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020992-002
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 22-Mar-2018 08:17:11 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK016

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.314	11.319	-0.005	22270981H	0.5000	0.4895	
2	10.689	10.694	-0.005	26120068H	0.5000	0.4868	
						RPD = 0.56	
$ 2 Triphenylphosphate							
1	21.087	21.092	-0.005	8170600H	0.5000	0.4842	
2	22.258	22.264	-0.006	9063082H	0.5000	0.4774	
						RPD = 1.43	
3 o,o',o''-Triethylphosphorothioate							
1	5.102	5.105	-0.003	38769489H	0.5000	0.4952	
2	5.019	5.023	-0.004	44375309H	0.5000	0.4976	
						RPD = 0.48	
4 Dichlorvos							
1	7.177	7.179	-0.002	33368262H	0.5000	0.4990	
2	6.280	6.284	-0.004	35622974H	0.5000	0.4995	
						RPD = 0.10	
5 Mevinphos							
1	9.771	9.774	-0.003	24896704H	0.5000	0.4968	
2	8.627	8.631	-0.004	25090545H	0.5000	0.5001	
						RPD = 0.66	
6 Demeton-O							
1	10.196	10.200	-0.004	8466330H	0.1700	0.1711	
2	10.554	10.559	-0.005	9268996H	0.1700	0.1704	
						RPD = 0.43	
7 Thionazin							
1	10.398	10.403	-0.005	26723861H	0.5000	0.5013	
2	10.660	10.665	-0.005	30585900H	0.5000	0.4981	
						RPD = 0.64	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.823	10.827	-0.004	29169549H	0.5000	0.5048	
2	10.837	10.842	-0.005	29977459H	0.5000	0.5058	
						RPD = 0.19	
9 Phorate							
1	10.848	10.854	-0.006	27626832H	0.5000	0.5120	
2	11.477	11.482	-0.005	29933904H	0.5000	0.5103	
						RPD = 0.33	
10 Sulfotepp							
1	11.237	11.241	-0.004	40770496H	0.5000	0.5026	
2	11.445	11.450	-0.005	45101838H	0.5000	0.4975	
						RPD = 1.03	
11 Diazinon							
1	11.647	11.652	-0.005	21755395H	0.5000	0.5130	
2	12.537	12.544	-0.007	20791242H	0.5000	0.5139	
						RPD = 0.18	
12 Disulfoton							
1	12.021	12.025	-0.004	22433878H	0.5000	0.5077	
2	12.738	12.744	-0.006	20570314H	0.5000	0.5071	
						RPD = 0.12	
13 Demeton-S							
1	12.071	12.075	-0.004	16126874H	0.3300	0.3310	
2	11.917	11.920	-0.003	17377131H	0.3300	0.3268	
						RPD = 1.27	
14 Dimethoate							
1	12.967	12.973	-0.006	18925086H	0.5000	0.4830	
2	12.319	12.325	-0.006	24049688H	0.5000	0.4822	
						RPD = 0.18	
15 Ronnel							
1	13.246	13.253	-0.007	15504653H	0.5000	0.5071	
2	14.292	14.300	-0.008	14238707H	0.5000	0.5054	
						RPD = 0.35	
16 Chlorpyrifos							
1	14.012	14.018	-0.006	12000228H	0.5000	0.5125	
2	15.581	15.589	-0.008	11109327H	0.5000	0.5045	
						RPD = 1.58	
17 Fenthion							
1	14.257	14.266	-0.009	15382547H	0.5000	0.5119	
2	15.851	15.860	-0.009	15067076H	0.5000	0.5068	
						RPD = 1.01	
18 Trichloronate							
1	14.318	14.325	-0.007	12261811H	0.5000	0.5137	
2	15.708	15.716	-0.008	11749166H	0.5000	0.5067	
						RPD = 1.36	
19 Methyl parathion							
1	15.221	15.230	-0.009	13025433H	0.5000	0.5001	
2	14.232	14.242	-0.010	16625756H	0.5000	0.5043	
						RPD = 0.84	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	15.537	15.544	-0.007	10002046H	0.5000	0.5004	
2	15.465	15.473	-0.008	10596335H	0.5000	0.5024	
						RPD = 0.40	
21 Tokuthion							
1	16.522	16.529	-0.007	9647215H	0.5000	0.5093	
2	18.371	18.382	-0.011	11254893H	0.5000	0.5115	
						RPD = 0.44	
22 Ethyl Parathion							
1	16.768	16.775	-0.007	12238540H	0.5000	0.4987	
2	15.772	15.783	-0.011	13858996H	0.5000	0.4984	
						RPD = 0.07	
23 Stirophos							
1	17.739	17.745	-0.006	9080877H	0.5000	0.5010	
2	18.181	18.189	-0.008	9369635H	0.5000	0.4948	
						RPD = 1.26	
24 Bolstar							
1	18.757	18.762	-0.005	10759629H	0.5000	0.5114	
2	20.880	20.884	-0.004	11908471H	0.5000	0.5049	
						RPD = 1.29	
25 Fensulfothion							
1	21.721	21.727	-0.006	12438180H	0.5000	0.4990	
2	20.637	20.641	-0.004	11924807H	0.5000	0.4946	
						RPD = 0.89	
26 EPN							
1	22.692	22.698	-0.006	11612545H	0.5000	0.4915	
2	22.949	22.953	-0.004	13192601H	0.5000	0.4998	
						RPD = 1.68	
27 Famphur							
1	22.985	22.990	-0.005	13407085H	0.5000	0.4946	
2	21.574	21.580	-0.006	13094029H	0.5000	0.4953	
						RPD = 0.14	
28 Azinphos-methyl							
1	23.317	23.320	-0.003	10972854H	0.5000	0.4849	
2	24.139	24.144	-0.005	12383628H	0.5000	0.4899	
						RPD = 1.04	
29 Coumaphos							
1	25.950	25.955	-0.005	12315776H	0.5000	0.5088	
2	25.382	25.386	-0.004	13866624H	0.5000	0.4966	
						RPD = 2.43	
S 30 Demeton, Total							
1					0.5000	0.5021	
2					0.5000	0.4972	
						RPD = 0.99	

Reagents:

GCOPPLEVEL2_00001 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:17:13 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321006.D				
Injection Date:	21-Mar-2018 09:16:22	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	IC			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

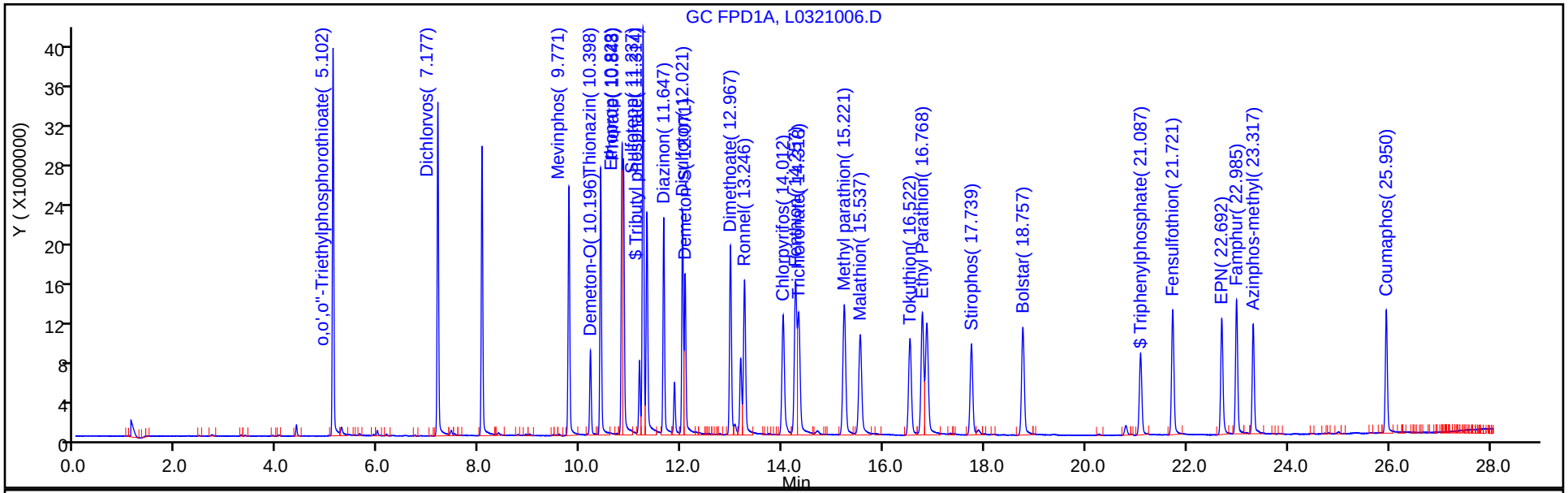

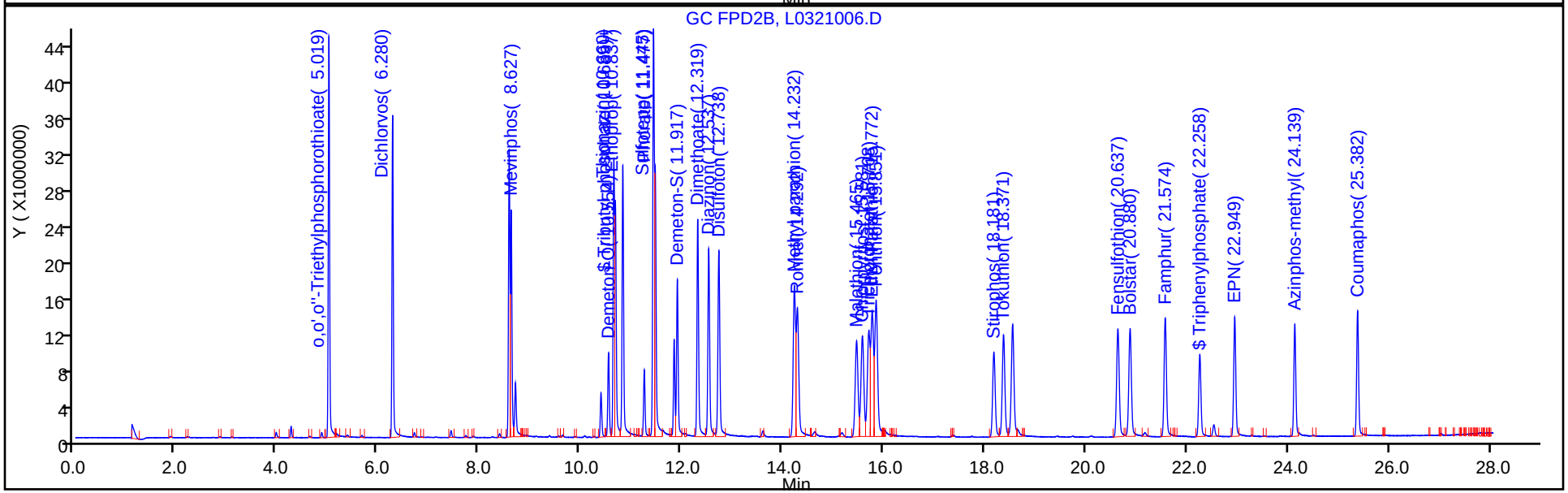

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321007.D
Lims ID: ICRT
Client ID:
Sample Type: ICRT Calib Level: 3
Inject. Date: 21-Mar-2018 09:49:20 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020992-003
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 22-Mar-2018 08:17:03 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK016

First Level Reviewer: oravecj Date: 21-Mar-2018 13:18:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.316	11.319	-0.003	44628477H	1.00	0.9809	
2	10.688	10.694	-0.006	53244354H	1.00	0.99	
						RPD = 1.15	
$ 2 Triphenylphosphate							
1	21.086	21.092	-0.006	16435853H	1.00	0.9741	
2	22.258	22.264	-0.006	18690485H	1.00	0.9844	
						RPD = 1.06	
3 o,o',o''-Triethylphosphorothioate							
1	5.103	5.105	-0.002	78392076H	1.00	1.00	
2	5.020	5.023	-0.003	89037621H	1.00	1.00	
						RPD = 0.29	
4 Dichlorvos							
1	7.177	7.179	-0.002	66530767H	1.00	0.99	
2	6.281	6.284	-0.003	71165271H	1.00	1.00	
						RPD = 0.30	
5 Mevinphos							
1	9.772	9.774	-0.002	50765314H	1.00	1.01	
2	8.628	8.631	-0.003	50356238H	1.00	1.00	
						RPD = 0.92	
6 Demeton-O							
1	10.197	10.200	-0.003	16846722H	0.3400	0.3405	
2	10.556	10.559	-0.003	18561635H	0.3400	0.3412	
						RPD = 0.21	
7 Thionazin							
1	10.400	10.403	-0.003	55029146H	1.00	1.03	
2	10.662	10.665	-0.003	62506368H	1.00	1.02	
						RPD = 1.40	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.823	10.827	-0.004	57807649H	1.00	1.00	
2	10.838	10.842	-0.004	59668612H	1.00	1.01	
						RPD = 0.62	
9 Phorate							
1	10.850	10.854	-0.004	54530307H	1.00	1.01	
2	11.478	11.482	-0.004	58976576H	1.00	1.01	
						RPD = 0.52	
10 Sulfotepp							
1	11.239	11.241	-0.002	80925598H	1.00	1.00	
2	11.447	11.450	-0.003	91785159H	1.00	1.01	
						RPD = 1.46	
11 Diazinon							
1	11.648	11.652	-0.004	41559264H	1.00	0.9799	
2	12.540	12.544	-0.004	40332471H	1.00	1.00	
						RPD = 1.72	
12 Disulfoton							
1	12.022	12.025	-0.003	44201505H	1.00	1.00	
2	12.739	12.744	-0.005	40927593H	1.00	1.01	
						RPD = 0.86	
13 Demeton-S							
1	12.071	12.075	-0.004	32563386H	0.6600	0.6684	
2	11.916	11.920	-0.004	35555288H	0.6600	0.6688	
						RPD = 0.05	
14 Dimethoate							
1	12.969	12.973	-0.004	40176448H	1.00	1.03	
2	12.322	12.325	-0.003	51050029H	1.00	1.02	
						RPD = 0.19	
15 Ronnel							
1	13.247	13.253	-0.006	30207519H	1.00	0.9881	
2	14.295	14.300	-0.005	28040328H	1.00	1.00	
						RPD = 0.72	
16 Chlorpyrifos							
1	14.013	14.018	-0.005	23008160H	1.00	0.9826	
2	15.581	15.589	-0.008	21987751H	1.00	1.00	
						RPD = 1.60	
17 Fenthion							
1	14.261	14.266	-0.005	29703150H	1.00	0.9885	
2	15.855	15.860	-0.005	29579491H	1.00	0.99	
						RPD = 0.64	
18 Trichloronate							
1	14.317	14.325	-0.008	23644079H	1.00	0.99	
2	15.710	15.716	-0.006	23101196H	1.00	1.00	
						RPD = 0.58	
19 Methyl parathion							
1	15.223	15.230	-0.007	26051755H	1.00	1.00	
2	14.237	14.242	-0.005	32728046H	1.00	0.99	
						RPD = 0.75	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	15.535	15.544	-0.009	20037214H	1.00	1.00	
2	15.467	15.473	-0.006	21309960H	1.00	1.01	
						RPD = 0.78	
21 Tokuthion							
1	16.523	16.529	-0.006	18797273H	1.00	0.99	
2	18.374	18.382	-0.008	21974894H	1.00	1.00	
						RPD = 0.64	
22 Ethyl Parathion							
1	16.768	16.775	-0.007	24905189H	1.00	1.01	
2	15.775	15.783	-0.008	28030029H	1.00	1.01	
						RPD = 0.68	
23 Stirophos							
1	17.738	17.745	-0.007	18087189H	1.00	1.00	
2	18.184	18.189	-0.005	18917793H	1.00	1.00	
						RPD = 0.10	
24 Bolstar							
1	18.756	18.762	-0.006	20927762H	1.00	0.99	
2	20.877	20.884	-0.007	23670308H	1.00	1.00	
						RPD = 0.88	
25 Fensulfothion							
1	21.721	21.727	-0.006	24829487H	1.00	1.00	
2	20.637	20.641	-0.004	24533807H	1.00	1.02	
						RPD = 2.13	
26 EPN							
1	22.693	22.698	-0.005	23864536H	1.00	1.01	
2	22.948	22.953	-0.005	26415952H	1.00	1.00	
						RPD = 0.92	
27 Famphur							
1	22.986	22.990	-0.004	27119203H	1.00	1.00	
2	21.574	21.580	-0.006	26425021H	1.00	1.00	
						RPD = 0.09	
28 Azinphos-methyl							
1	23.315	23.320	-0.005	22710262H	1.00	1.00	
2	24.138	24.144	-0.006	25406256H	1.00	1.01	
						RPD = 0.16	
29 Coumaphos							
1	25.952	25.955	-0.003	24072784H	1.00	0.99	
2	25.381	25.386	-0.005	27643591H	1.00	0.9899	
						RPD = 0.46	
S 30 Demeton, Total							
1					1.00	1.01	
2					1.00	1.01	
						RPD = 0.10	

Reagents:

GCOPPLEVEL3_00001 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:17:04 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321007.D				
Injection Date:	21-Mar-2018 09:49:20	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	ICRT			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

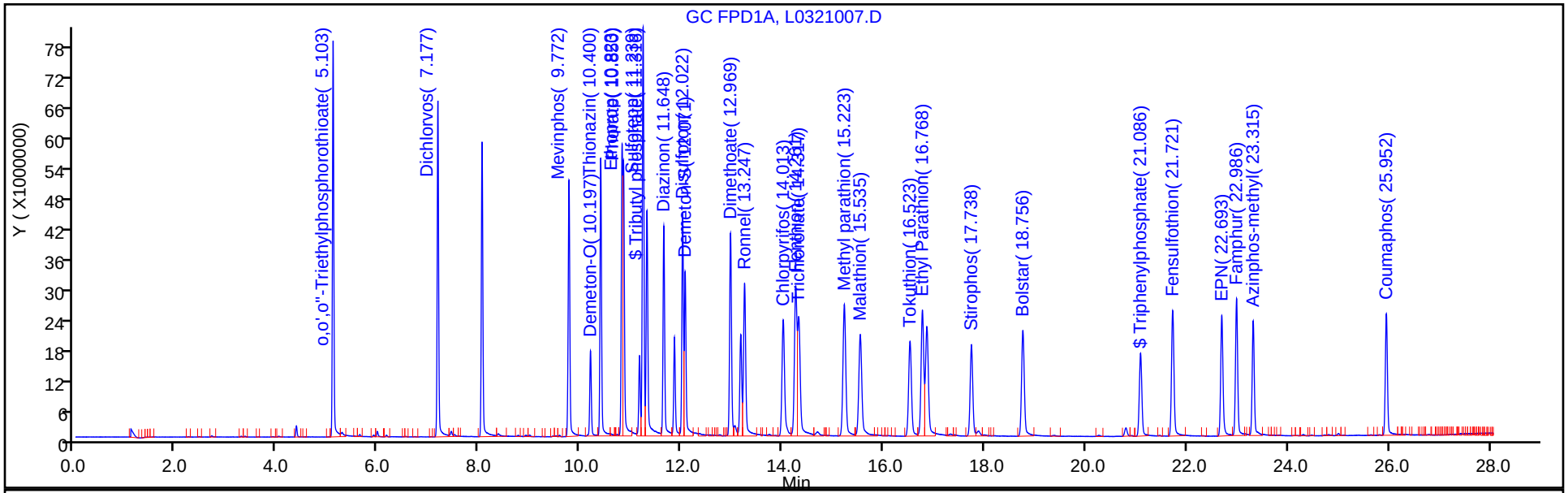

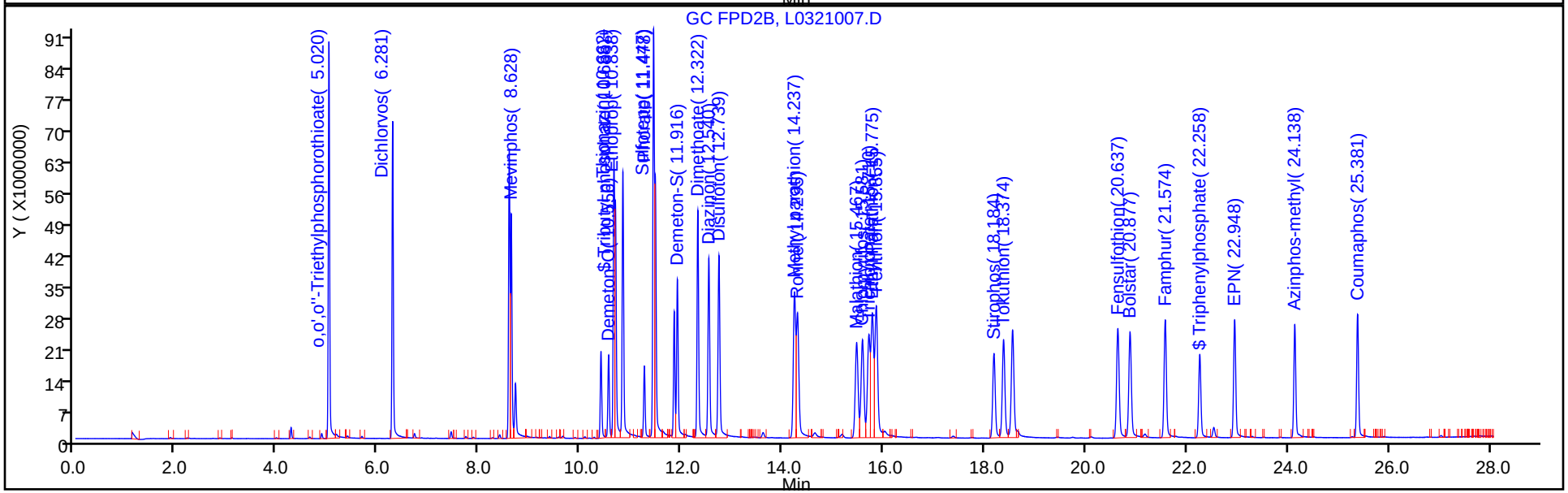

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321008.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 21-Mar-2018 10:22:25 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020992-004
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 22-Mar-2018 08:16:57 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK016

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.319	11.319	0.000	89806415H	2.00	1.97	
2	10.694	10.694	0.000	107314054H	2.00	2.00	
						RPD = 1.30	
$ 2 Triphenylphosphate							
1	21.092	21.092	0.000	34131333H	2.00	2.02	
2	22.264	22.264	0.000	38446199H	2.00	2.02	
						RPD = 0.11	
3 o,o',o''-Triethylphosphorothioate							
1	5.105	5.105	0.000	152496922H	2.00	1.95	
2	5.023	5.023	0.000	174142902H	2.00	1.95	
						RPD = 0.24	
4 Dichlorvos							
1	7.179	7.179	0.000	131396065H	2.00	1.96	
2	6.284	6.284	0.000	140335390H	2.00	1.97	
						RPD = 0.15	
5 Mevinphos							
1	9.774	9.774	0.000	100996102H	2.00	2.02	
2	8.631	8.631	0.000	101761653H	2.00	2.03	
						RPD = 0.64	
6 Demeton-O							
1	10.200	10.200	0.000	33266235H	0.6800	0.6723	
2	10.559	10.559	0.000	36952900H	0.6800	0.6792	
						RPD = 1.02	
7 Thionazin							
1	10.403	10.403	0.000	103707780H	2.00	1.95	
2	10.665	10.665	0.000	120499095H	2.00	1.96	
						RPD = 0.87	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.827	10.827	0.000	113720487H	2.00	1.97	
2	10.842	10.842	0.000	117588194H	2.00	1.98	
						RPD = 0.80	
9 Phorate							
1	10.854	10.854	0.000	106404680H	2.00	1.97	
2	11.482	11.482	0.000	115943148H	2.00	1.98	
						RPD = 0.23	
10 Sulfotepp							
1	11.241	11.241	0.000	161529094H	2.00	1.99	
2	11.450	11.450	0.000	179536795H	2.00	1.98	
						RPD = 0.56	
11 Diazinon							
1	11.652	11.652	0.000	84068890H	2.00	1.98	
2	12.544	12.544	0.000	80835035H	2.00	2.00	
						RPD = 0.79	
12 Disulfoton							
1	12.025	12.025	0.000	87482331H	2.00	1.98	
2	12.744	12.744	0.000	80750209H	2.00	1.99	
						RPD = 0.55	
13 Demeton-S							
1	12.075	12.075	0.000	65503323H	1.32	1.34	
2	11.920	11.920	0.000	71856761H	1.32	1.35	
						RPD = 0.52	
14 Dimethoate							
1	12.973	12.973	0.000	84047975H	2.00	2.15	
2	12.325	12.325	0.000	107775994H	2.00	2.16	
						RPD = 0.73	
15 Ronnel							
1	13.253	13.253	0.000	61477543H	2.00	2.01	
2	14.300	14.300	0.000	56396898H	2.00	2.00	
						RPD = 0.46	
16 Chlorpyrifos							
1	14.018	14.018	0.000	46628269H	2.00	1.99	
2	15.589	15.589	0.000	43958803H	2.00	2.00	
						RPD = 0.24	
17 Fenthion							
1	14.266	14.266	0.000	59774429H	2.00	1.99	
2	15.860	15.860	0.000	59697504H	2.00	2.01	
						RPD = 0.93	
18 Trichloronate							
1	14.325	14.325	0.000	46960029H	2.00	1.97	
2	15.716	15.716	0.000	46586048H	2.00	2.01	
						RPD = 2.11	
19 Methyl parathion							
1	15.230	15.230	0.000	52184695H	2.00	2.00	
2	14.242	14.242	0.000	66574547H	2.00	2.02	
						RPD = 0.79	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	15.544	15.544	0.000	40119020H	2.00	2.01	
2	15.473	15.473	0.000	42193018H	2.00	2.00	
						RPD = 0.33	
21 Tokuthion							
1	16.529	16.529	0.000	37584686H	2.00	1.98	
2	18.382	18.382	0.000	43583419H	2.00	1.98	
						RPD = 0.17	
22 Ethyl Parathion							
1	16.775	16.775	0.000	48428796H	2.00	1.97	
2	15.783	15.783	0.000	55697366H	2.00	2.00	
						RPD = 1.48	
23 Stirophos							
1	17.745	17.745	0.000	36992711H	2.00	2.04	
2	18.189	18.189	0.000	38780752H	2.00	2.05	
						RPD = 0.33	
24 Bolstar							
1	18.762	18.762	0.000	41900561H	2.00	1.99	
2	20.884	20.884	0.000	47594801H	2.00	2.02	
						RPD = 1.31	
25 Fensulfothion							
1	21.727	21.727	0.000	53347257H	2.00	2.14	
2	20.641	20.641	0.000	51861570H	2.00	2.15	
						RPD = 0.50	
26 EPN							
1	22.698	22.698	0.000	47977030H	2.00	2.03	
2	22.953	22.953	0.000	53792403H	2.00	2.04	
						RPD = 0.37	
27 Famphur							
1	22.990	22.990	0.000	55041686H	2.00	2.03	
2	21.580	21.580	0.000	53774512H	2.00	2.03	
						RPD = 0.17	
28 Azinphos-methyl							
1	23.320	23.320	0.000	48460752H	2.00	2.14	
2	24.144	24.144	0.000	53228184H	2.00	2.11	
						RPD = 1.67	
29 Coumaphos							
1	25.955	25.955	0.000	48377501H	2.00	2.00	
2	25.386	25.386	0.000	57270682H	2.00	2.05	
						RPD = 2.59	
S 30 Demeton, Total							
1					2.00	2.02	
2					2.00	2.03	
						RPD = 0.69	

Reagents:

GCOPPLEVEL4_00001 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:16:59 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321008.D				
Injection Date:	21-Mar-2018 10:22:25	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

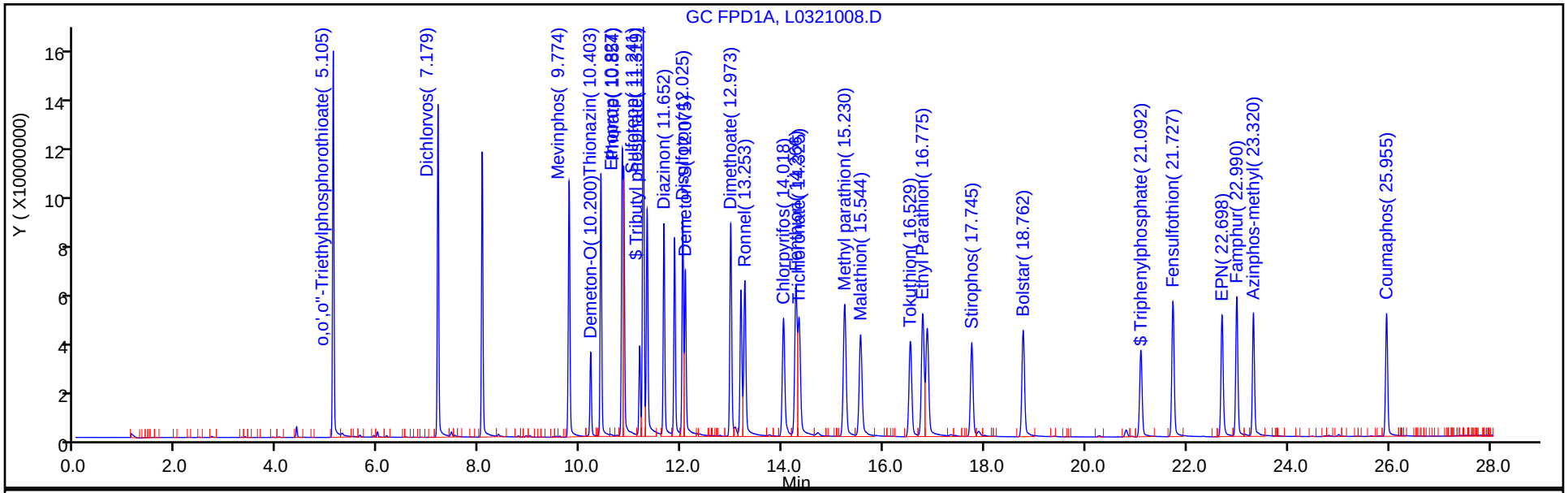

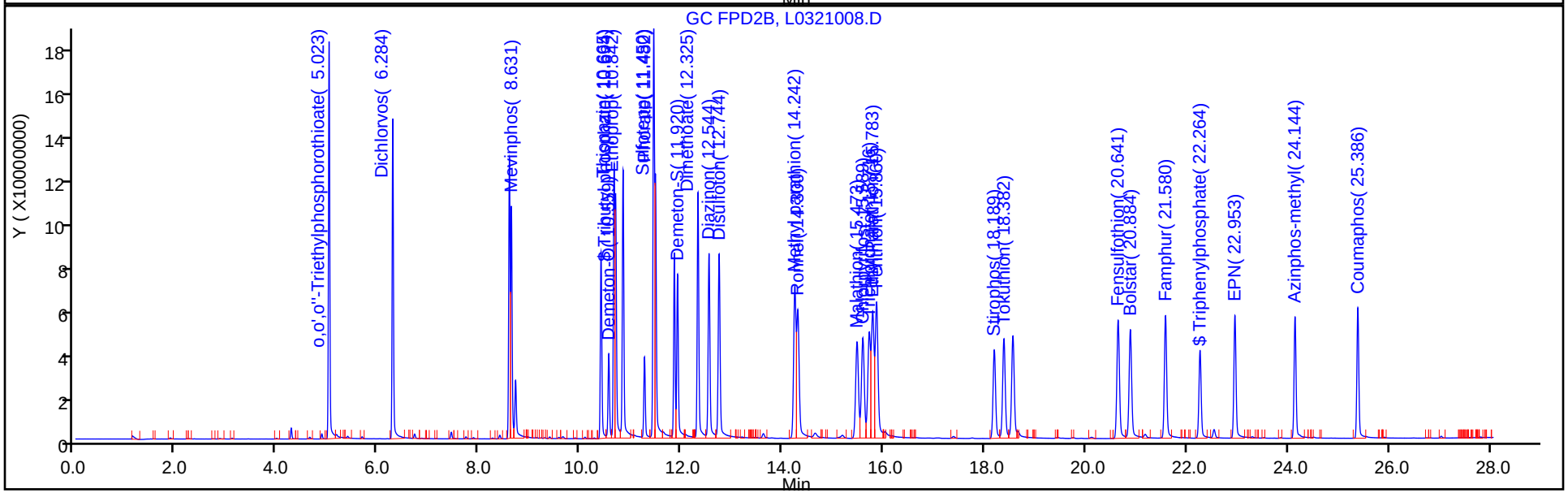

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 21-Mar-2018 10:55:20 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0020992-005
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 22-Mar-2018 08:16:53 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK016

First Level Reviewer: oravecj Date: 22-Mar-2018 08:16:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.317	11.319	-0.002	162855641H	4.00	3.58	
2	10.692	10.694	-0.002	196555986H	4.00	3.66	
						RPD = 2.30	
$ 2 Triphenylphosphate							
1	21.090	21.092	-0.002	65235370H	4.00	3.87	
2	22.263	22.264	-0.001	73611754H	4.00	3.88	
						RPD = 0.29	
3 o,o',o''-Triethylphosphorothioate							
1	5.105	5.105	0.000	309535776H	4.00	3.95	
2	5.023	5.023	0.000	351634599H	4.00	3.94	
						RPD = 0.28	
4 Dichlorvos							
1	7.178	7.179	-0.001	262569972H	4.00	3.93	
2	6.283	6.284	-0.001	280137578H	4.00	3.93	
						RPD = 0.04	
5 Mevinphos							
1	9.774	9.774	0.000	206215964H	4.00	4.11	
2	8.632	8.631	0.001	202703197H	4.00	4.04	
						RPD = 1.83	
6 Demeton-O							
1	10.200	10.200	0.000	64989426H	1.36	1.31	
2	10.559	10.559	0.000	71845219H	1.36	1.32	
						RPD = 0.54	
7 Thionazin							
1	10.402	10.403	-0.001	204181067H	4.00	3.83	
2	10.665	10.665	0.000	238976604H	4.00	3.89	
						RPD = 1.60	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.824	10.827	-0.003	221520698H	4.00	3.83	
2	10.842	10.842	0.000	229044270H	4.00	3.86	
						RPD = 0.79	
9 Phorate							
1	10.853	10.854	-0.001	201102975H	4.00	3.73	
2	11.482	11.482	0.000	219243901H	4.00	3.74	
						RPD = 0.28	
10 Sulfotepp							
1	11.242	11.241	0.001	313038831H	4.00	3.86	
2	11.449	11.450	-0.001	352900651H	4.00	3.89	
						RPD = 0.86	
11 Diazinon							
1	11.651	11.652	-0.001	161860599H	4.00	3.82	
2	12.543	12.544	-0.001	153485439H	4.00	3.79	
						RPD = 0.60	
12 Disulfoton							
1	12.024	12.025	-0.001	169343509H	4.00	3.83	
2	12.743	12.744	-0.001	153901646H	4.00	3.79	
						RPD = 1.01	
13 Demeton-S							
1	12.073	12.075	-0.002	125785604H	2.64	2.58	
2	11.920	11.920	0.000	140256529H	2.64	2.64	
						RPD = 2.15	
14 Dimethoate							
1	12.973	12.973	0.000	167859727H	4.00	4.28	
2	12.325	12.325	0.000	213449833H	4.00	4.28	
						RPD = 0.11	
15 Ronnel							
1	13.250	13.253	-0.003	119314761H	4.00	3.90	
2	14.302	14.300	0.002	109051205H	4.00	3.87	
						RPD = 0.83	
16 Chlorpyrifos							
1	14.017	14.018	-0.001	89481517H	4.00	3.82	
2	15.588	15.589	-0.001	84868441H	4.00	3.85	
						RPD = 0.84	
17 Fenthion							
1	14.265	14.266	-0.001	114343499H	4.00	3.81	
2	15.860	15.860	0.000	114584327H	4.00	3.85	
						RPD = 1.27	
18 Trichloronate							
1	14.325	14.325	0.000	90258807H	4.00	3.78	
2	15.717	15.716	0.001	89153099H	4.00	3.84	
						RPD = 1.67	
19 Methyl parathion							
1	15.225	15.230	-0.005	102538632H	4.00	3.94	
2	14.242	14.242	0.000	130045547H	4.00	3.94	
						RPD = 0.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	15.542	15.544	-0.002	77333552H	4.00	3.87	
2	15.474	15.473	0.001	82093133H	4.00	3.89	
						RPD = 0.60	
21 Tokuthion							
1	16.528	16.529	-0.001	71665483H	4.00	3.78	
2	18.380	18.382	-0.002	84559083H	4.00	3.84	
						RPD = 1.57	
22 Ethyl Parathion							
1	16.772	16.775	-0.003	94927355H	4.00	3.87	
2	15.782	15.783	-0.001	108517268H	4.00	3.90	
						RPD = 0.88	
23 Stirophos							
1	17.742	17.745	-0.003	72358909H	4.00	3.99	
2	18.192	18.189	0.003	76950974H	4.00	4.06	
						RPD = 1.76	
24 Bolstar							
1	18.762	18.762	0.000	80167167H	4.00	3.81	
2	20.882	20.884	-0.002	89235012H	4.00	3.78	
						RPD = 0.71	
25 Fensulfothion							
1	21.726	21.727	-0.001	103899415H	4.00	4.17	
2	20.642	20.641	0.001	101017770H	4.00	4.19	
						RPD = 0.51	
26 EPN							
1	22.698	22.698	0.000	97023283H	4.00	4.11	
2	22.953	22.953	0.000	107087359H	4.00	4.06	
						RPD = 1.21	
27 Famphur							
1	22.990	22.990	0.000	109998984H	4.00	4.06	
2	21.580	21.580	0.000	106172097H	4.00	4.02	
						RPD = 1.04	
28 Azinphos-methyl							
1	23.319	23.320	-0.001	95630844H	4.00	4.23	
2	24.142	24.144	-0.002	107222645H	4.00	4.24	
						RPD = 0.39	
29 Coumaphos							
1	25.954	25.955	-0.001	96525697H	4.00	3.99	
2	25.386	25.386	0.000	112349977H	4.00	4.02	
						RPD = 0.89	
S 30 Demeton, Total							
1					4.00	3.90	
2					4.00	3.96	
						RPD = 1.61	

Reagents:

GCOPPLEVEL5_00001 Amount Added: 1.00 Units: mL

Report Date: 22-Mar-2018 08:16:54 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D				
Injection Date:	21-Mar-2018 10:55:20	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	IC			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

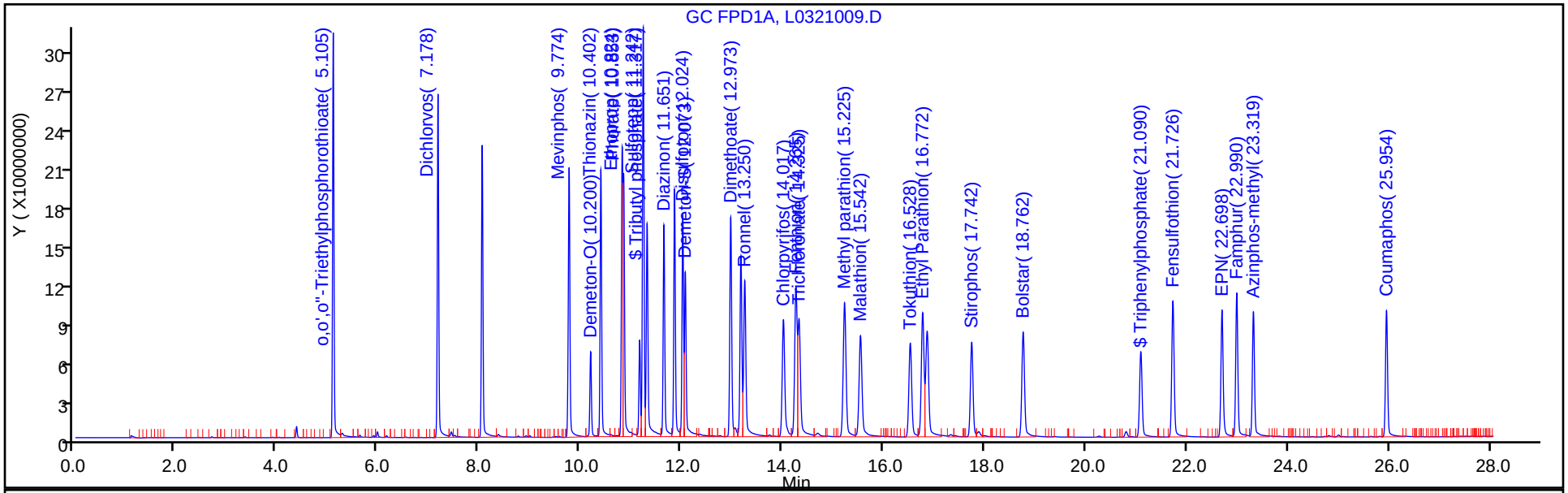

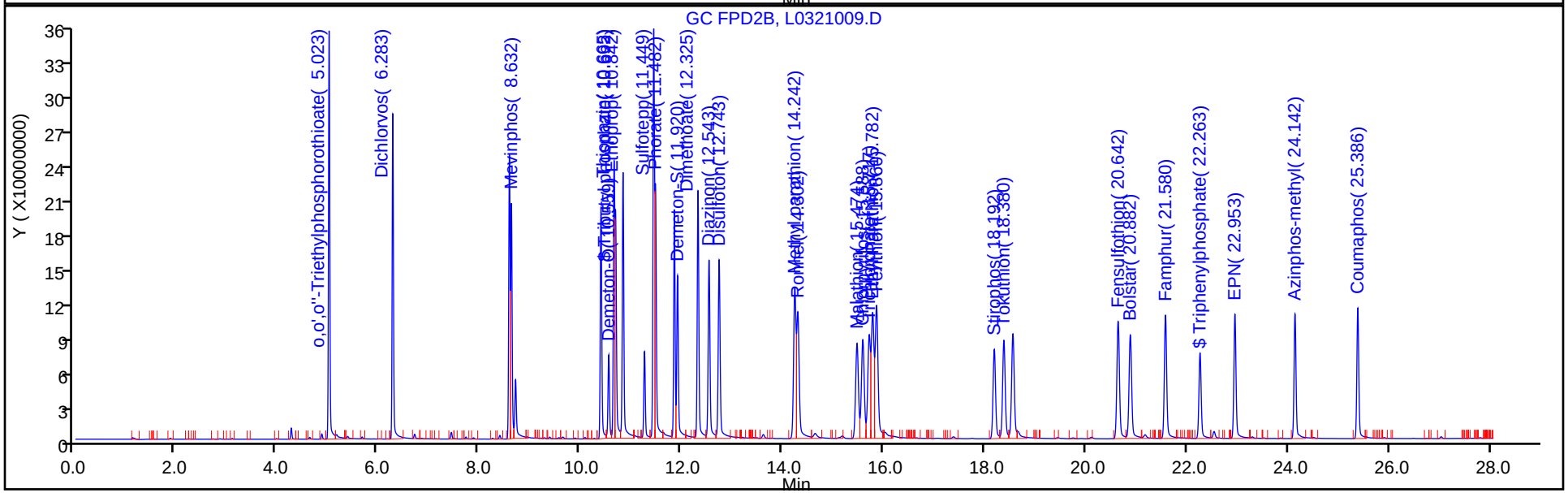

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Lab Sample ID: CCVRT 180-254752/1 Calibration Date: 08/23/2018 06:24

Instrument ID: CHGC5 Calib Start Date: 03/21/2018 08:43

GC Column: RTX-OPP1 ID: 0.53(mm) Calib End Date: 03/21/2018 10:55

Lab File ID: L0082301.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
O,O,O-Triethyl phosphorothioate	Ave	78289401	83480047		2.13	2.00	6.6	20.0
Dichlorvos	Ave	66871856	68205341		2.04	2.00	2.0	20.0
Mevinphos	Ave	50113953	44918470		1.79	2.00	-10.4	20.0
Demeton-O	Ave	49483227	48404893		0.665	0.680	-2.2	20.0
Thionazin	Ave	53314169	48935976		1.84	2.00	-8.2	20.0
Mocap	Ave	57782696	51610349		1.79	2.00	-10.7	20.0
Phorate	Ave	53959369	47997224		1.78	2.00	-11.0	20.0
Sulfotepp	Ave	81113156	79478581		1.96	2.00	-2.0	20.0
Diazinon	Ave	42410446	41765276		1.97	2.00	-1.5	20.0
Disulfoton	Ave	44187823	54354428		2.46	2.00	23.0*	20.0
Demeton-S	Ave	48716002	54392042		1.47	1.32	11.7	20.0
Dimethoate	Ave	39181173	40354712		2.06	2.00	3.0	20.0
Ronnel	Ave	30572605	32012335		2.09	2.00	4.7	20.0
Chlorpyrifos	Ave	23414497	25076002		2.14	2.00	7.1	20.0
Fenthion	Ave	30049217	31104546		2.07	2.00	3.5	20.0
Trichloronate	Ave	23871279	24845087		2.08	2.00	4.1	20.0
Methyl parathion	Ave	26046259	26937752		2.07	2.00	3.4	20.0
Malathion	Ave	19987613	19748559		1.98	2.00	-1.2	20.0
Tokuthion	Ave	18941636	18351214		1.94	2.00	-3.1	20.0
Parathion	Ave	24539290	24361094		1.99	2.00	-0.7	20.0
Stirophos	Ave	18124587	18018411		1.99	2.00	-0.6	20.0
Bolstar	Ave	21039533	21359639		2.03	2.00	1.5	20.0
Fensulfothion	Ave	24924142	23527105		1.89	2.00	-5.6	20.0
EPN	Ave	23628924	24115090		2.04	2.00	2.1	20.0
Famphur	Ave	27106054	27455257		2.03	2.00	1.3	20.0
Azinphos-methyl	Ave	22631409	22105618		1.95	2.00	-2.3	20.0
Coumaphos	Ave	24206533	25872578		2.14	2.00	6.9	20.0
Tributyl phosphate	Ave	45496937	42143817		1.85	2.00	-7.4	20.0
Triphenylphosphate	Ave	16873704	16049008		1.90	2.00	-4.9	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Lab Sample ID: CCVRT 180-254752/1 Calibration Date: 08/23/2018 06:24

Instrument ID: CHGC5 Calib Start Date: 03/21/2018 08:43

GC Column: RTX-OPP1 ID: 0.53(mm) Calib End Date: 03/21/2018 10:55

Lab File ID: L0082301.D

Analyte	RT	RT WINDOW	
		FROM	TO
O,O,O-Triethyl phosphorothioate	4.90	4.87	4.93
Dichlorvos	6.91	6.88	6.94
Mevinphos	9.47	9.44	9.50
Demeton-O	9.95	9.92	9.98
Thionazin	10.14	10.11	10.17
Mocap	10.55	10.52	10.58
Phorate	10.60	10.57	10.63
Sulfotepp	10.97	10.94	11.00
Diazinon	11.41	11.38	11.44
Disulfoton	11.77	11.74	11.80
Demeton-S	11.79	11.76	11.82
Dimethoate	12.58	12.55	12.61
Ronnel	12.91	12.88	12.94
Chlorpyrifos	13.62	13.59	13.65
Fenthion	13.83	13.80	13.86
Trichloronate	13.90	13.87	13.93
Methyl parathion	14.64	14.61	14.67
Malathion	14.98	14.95	15.01
Tokuthion	16.06	16.03	16.09
Parathion	16.21	16.18	16.24
Stirophos	17.22	17.19	17.25
Bolstar	18.30	18.27	18.33
Fensulfothion	21.20	21.17	21.23
EPN	22.26	22.23	22.29
Famphur	22.50	22.47	22.53
Azinphos-methyl	22.89	22.86	22.92
Coumaphos	25.55	25.52	25.58
Tributyl phosphate	11.04	11.01	11.07
Triphenylphosphate	20.60	20.57	20.63

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082301.D
Lims ID: CCVRT
Client ID:
Sample Type: CCVRT
Inject. Date: 23-Aug-2018 06:24:11 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0023306-001
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 23-Aug-2018 10:54:39 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Aug-2018 08:32:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.043	11.043	0.000	84287633H	2.00	1.85	
2	10.718	10.718	0.000	95129988H	2.00	1.77	
						RPD = 4.40	
$ 2 Triphenylphosphate							
1	20.604	20.604	0.000	32098016H	2.00	1.90	
2	22.270	22.270	0.000	37693461H	2.00	1.99	
						RPD = 4.27	
3 o,o',o''-Triethylphosphorothioate							
1	4.895	4.895	0.000	166960094H	2.00	2.13	
2	5.044	5.044	0.000	183050102H	2.00	2.05	
						RPD = 3.83	
4 Dichlorvos							
1	6.906	6.906	0.000	136410681H	2.00	2.04	
2	6.305	6.305	0.000	140296972H	2.00	1.97	
						RPD = 3.63	
5 Mevinphos							
1	9.474	9.474	0.000	89836939H	2.00	1.79	
2	8.652	8.652	0.000	88644625H	2.00	1.77	
						RPD = 1.45	
6 Demeton-O							
1	9.947	9.947	0.000	32915327H	0.6800	0.6652	
2	10.578	10.578	0.000	35970436H	0.6800	0.6611	
						RPD = 0.61	
7 Thionazin							
1	10.136	10.136	0.000	97871952H	2.00	1.84	
2	10.683	10.683	0.000	109244944H	2.00	1.78	
						RPD = 3.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.550	10.550	0.000	103220697H	2.00	1.79	
2	10.862	10.862	0.000	113809529H	2.00	1.92	
						RPD = 7.22	
9 Phorate							
1	10.599	10.599	0.000	95994448H	2.00	1.78	
2	11.503	11.503	0.000	112389556H	2.00	1.92	
						RPD = 7.41	
10 Sulfotepp							
1	10.973	10.973	0.000	158957161H	2.00	1.96	
2	11.464	11.464	0.000	173984818H	2.00	1.92	
						RPD = 2.10	
11 Diazinon							
1	11.413	11.413	0.000	83530552H	2.00	1.97	
2	12.565	12.565	0.000	79511350H	2.00	1.97	
						RPD = 0.22	
12 Disulfoton							M
1	11.771	11.771	0.000	108708855H	2.00	2.46	
2	12.767	12.767	0.000	77793732H	2.00	1.92	
						RPD = 24.78	
13 Demeton-S							M
1	11.790	11.790	0.000	71797496H	1.32	1.47	
2	11.938	11.938	0.000	70415614H	1.32	1.32	
						RPD = 10.67	
14 Dimethoate							
1	12.583	12.583	0.000	80709423H	2.00	2.06	
2	12.348	12.348	0.000	91533337H	2.00	1.84	
						RPD = 11.54	
15 Ronnel							
1	12.907	12.907	0.000	64024670H	2.00	2.09	
2	14.328	14.328	0.000	56997736H	2.00	2.02	
						RPD = 3.46	
16 Chlorpyrifos							
1	13.619	13.619	0.000	50152004H	2.00	2.14	
2	15.610	15.610	0.000	44401223H	2.00	2.02	
						RPD = 6.05	
17 Fenthion							
1	13.829	13.829	0.000	62209091H	2.00	2.07	
2	15.879	15.879	0.000	60594538H	2.00	2.04	
						RPD = 1.57	
18 Trichloronate							
1	13.902	13.902	0.000	49690173H	2.00	2.08	
2	15.747	15.747	0.000	46882248H	2.00	2.02	
						RPD = 2.91	
19 Methyl parathion							
1	14.635	14.635	0.000	53875503H	2.00	2.07	
2	14.270	14.270	0.000	63773270H	2.00	1.93	
						RPD = 6.69	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	14.981	14.981	0.000	39497117H	2.00	1.98	
2	15.491	15.491	0.000	43012991H	2.00	2.04	
						RPD = 3.15	
21 Tokuthion							
1	16.055	16.055	0.000	36702428H	2.00	1.94	
2	18.406	18.406	0.000	44012243H	2.00	2.00	
						RPD = 3.18	
22 Ethyl Parathion							
1	16.211	16.211	0.000	48722188H	2.00	1.99	
2	15.808	15.808	0.000	56715335H	2.00	2.04	
						RPD = 2.69	
23 Stirophos							
1	17.224	17.224	0.000	36036821H	2.00	1.99	
2	18.210	18.210	0.000	38952764H	2.00	2.06	
						RPD = 3.39	
24 Bolstar							
1	18.304	18.304	0.000	42719277H	2.00	2.03	
2	20.896	20.896	0.000	47731142H	2.00	2.02	
						RPD = 0.34	
25 Fensulfothion							
1	21.195	21.195	0.000	47054210H	2.00	1.89	
2	20.658	20.658	0.000	47141766H	2.00	1.96	
						RPD = 3.51	
26 EPN							
1	22.255	22.255	0.000	48230179H	2.00	2.04	
2	22.963	22.963	0.000	53322010H	2.00	2.02	
						RPD = 1.04	
27 Famphur							
1	22.500	22.500	0.000	54910514H	2.00	2.03	
2	21.586	21.586	0.000	54128508H	2.00	2.05	
						RPD = 1.07	
28 Azinphos-methyl							
1	22.894	22.894	0.000	44211236H	2.00	1.95	
2	24.147	24.147	0.000	50066621H	2.00	1.98	
						RPD = 1.38	
29 Coumaphos							
1	25.547	25.547	0.000	51745156H	2.00	2.14	
2	25.392	25.392	0.000	55012734H	2.00	1.97	
						RPD = 8.16	
S 30 Demeton, Total							
1					2.00	2.14	
2					2.00	1.99	
						RPD = 7.44	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCOPPLEVEL4_00004 Amount Added: 1.00 Units: mL

Report Date: 23-Aug-2018 10:54:39 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082301.D				
Injection Date:	23-Aug-2018 06:24:11	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	CCVRT			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

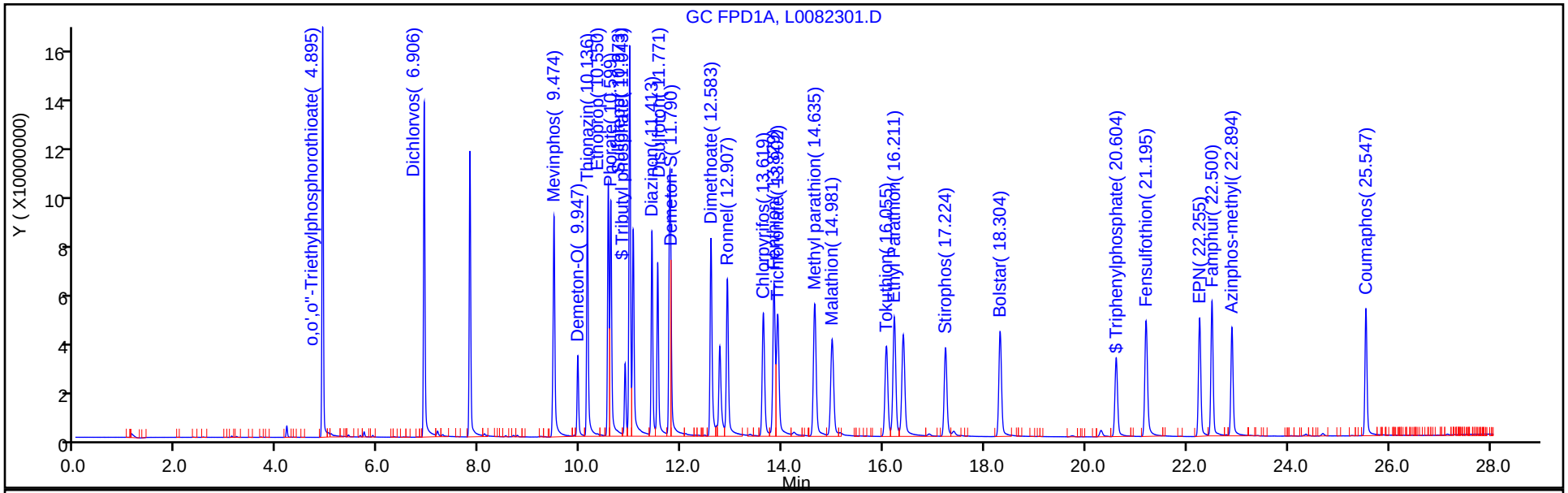

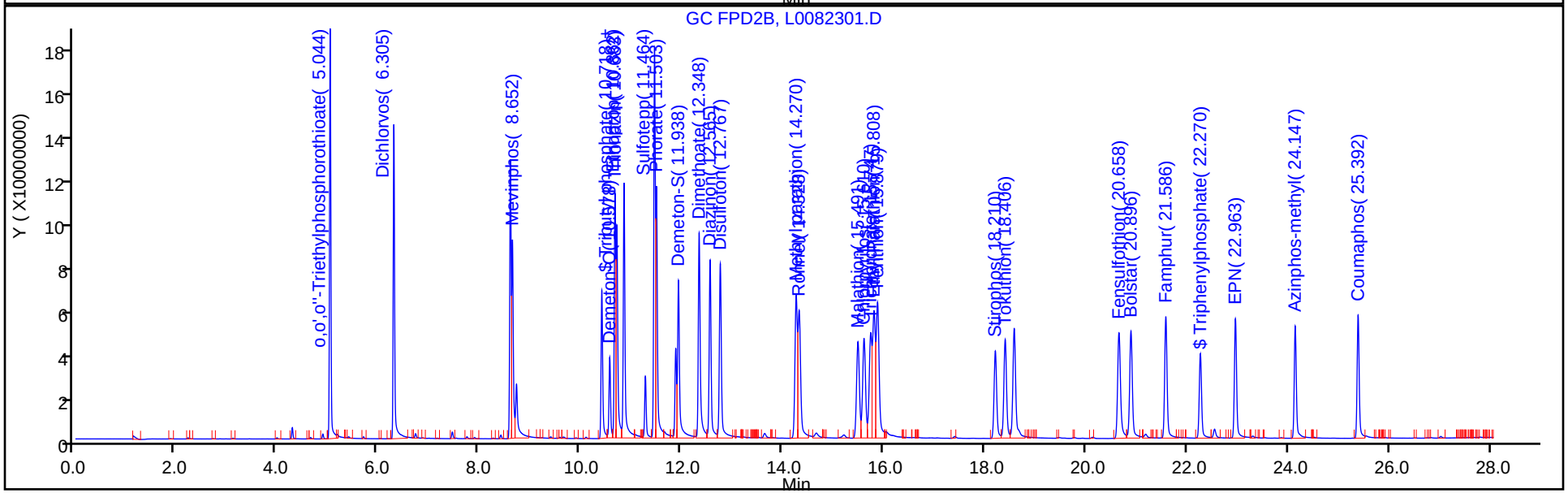

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Lab Sample ID: CCVRT 180-254752/1 Calibration Date: 08/23/2018 06:24

Instrument ID: CHGC5 Calib Start Date: 03/21/2018 08:43

GC Column: RTX-OPP2 ID: 0.53(mm) Calib End Date: 03/21/2018 10:55

Lab File ID: L0082301.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
O,O,O-Triethyl phosphorothioate	Ave	89183630	91525051		2.05	2.00	2.6	20.0
Dichlorvos	Ave	71316242	70148486		1.97	2.00	-1.6	20.0
Mevinphos	Ave	50171782	44322313		1.77	2.00	-11.7	20.0
Demeton-O	Ave	54407666	52897700		0.661	0.680	-2.8	20.0
Thionazin	Ave	61409613	54622472		1.78	2.00	-11.1	20.0
Mocap	Ave	59272201	56904765		1.92	2.00	-4.0	20.0
Sulfotepp	Ave	90661250	86992409		1.92	2.00	-4.0	20.0
Phorate	Ave	58661425	56194778		1.92	2.00	-4.2	20.0
Demeton-S	Ave	53165777	53345162		1.32	1.32	0.3	20.0
Dimethoate	Ave	49879018	45766669		1.84	2.00	-8.2	20.0
Diazinon	Ave	40458009	39755675		1.97	2.00	-1.7	20.0
Disulfoton	Ave	40565383	38896866		1.92	2.00	-4.1	20.0
Methyl parathion	Ave	32966003	31886635		1.93	2.00	-3.3	20.0
Ronnel	Ave	28174794	28498868		2.02	2.00	1.2	20.0
Malathion	Ave	21091247	21506496		2.04	2.00	2.0	20.0
Chlorpyrifos	Ave	22021860	22200612		2.02	2.00	0.8	20.0
Trichloronate	Ave	23187325	23441124		2.02	2.00	1.1	20.0
Parathion	Ave	27806550	28357668		2.04	2.00	2.0	20.0
Fenthion	Ave	29731805	30297269		2.04	2.00	1.9	20.0
Stirophos	Ave	18937639	19476382		2.06	2.00	2.8	20.0
Tokuthion	Ave	22002186	22006122		2.00	2.00	0.0	20.0
Fensulfothion	Ave	24108477	23570883		1.96	2.00	-2.2	20.0
Bolstar	Ave	23587243	23865571		2.02	2.00	1.2	20.0
Famphur	Ave	26436726	27064254		2.05	2.00	2.4	20.0
EPN	Ave	26396281	26661005		2.02	2.00	1.0	20.0
Azinphos-methyl	Ave	25277133	25033311		1.98	2.00	-1.0	20.0
Coumaphos	Ave	27924835	27506367		1.97	2.00	-1.5	20.0
Tributyl phosphate	Ave	53661746	47564994		1.77	2.00	-11.4	20.0
Triphenylphosphate	Ave	18986089	18846731		1.99	2.00	-0.7	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Lab Sample ID: CCVRT 180-254752/1 Calibration Date: 08/23/2018 06:24

Instrument ID: CHGC5 Calib Start Date: 03/21/2018 08:43

GC Column: RTX-OPP2 ID: 0.53(mm) Calib End Date: 03/21/2018 10:55

Lab File ID: L0082301.D

Analyte	RT	RT WINDOW	
		FROM	TO
O,O,O-Triethyl phosphorothioate	5.04	5.01	5.07
Dichlorvos	6.31	6.28	6.34
Mevinphos	8.65	8.62	8.68
Demeton-O	10.58	10.55	10.61
Thionazin	10.68	10.65	10.71
Mocap	10.86	10.83	10.89
Sulfotepp	11.46	11.43	11.49
Phorate	11.50	11.47	11.53
Demeton-S	11.94	11.91	11.97
Dimethoate	12.35	12.32	12.38
Diazinon	12.57	12.54	12.60
Disulfoton	12.77	12.74	12.80
Methyl parathion	14.27	14.24	14.30
Ronnel	14.33	14.30	14.36
Malathion	15.49	15.46	15.52
Chlorpyrifos	15.61	15.58	15.64
Trichloronate	15.75	15.72	15.78
Parathion	15.81	15.78	15.84
Fenthion	15.88	15.85	15.91
Stirophos	18.21	18.18	18.24
Tokuthion	18.41	18.38	18.44
Fensulfothion	20.66	20.63	20.69
Bolstar	20.90	20.87	20.93
Famphur	21.59	21.56	21.62
EPN	22.96	22.93	22.99
Azinphos-methyl	24.15	24.12	24.18
Coumaphos	25.39	25.36	25.42
Tributyl phosphate	10.72	10.69	10.75
Triphenylphosphate	22.27	22.24	22.30

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082301.D
Lims ID: CCVRT
Client ID:
Sample Type: CCVRT
Inject. Date: 23-Aug-2018 06:24:11 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0023306-001
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 23-Aug-2018 10:54:39 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Aug-2018 08:32:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.043	11.043	0.000	84287633H	2.00	1.85	
2	10.718	10.718	0.000	95129988H	2.00	1.77	
						RPD = 4.40	
$ 2 Triphenylphosphate							
1	20.604	20.604	0.000	32098016H	2.00	1.90	
2	22.270	22.270	0.000	37693461H	2.00	1.99	
						RPD = 4.27	
3 o,o',o''-Triethylphosphorothioate							
1	4.895	4.895	0.000	166960094H	2.00	2.13	
2	5.044	5.044	0.000	183050102H	2.00	2.05	
						RPD = 3.83	
4 Dichlorvos							
1	6.906	6.906	0.000	136410681H	2.00	2.04	
2	6.305	6.305	0.000	140296972H	2.00	1.97	
						RPD = 3.63	
5 Mevinphos							
1	9.474	9.474	0.000	89836939H	2.00	1.79	
2	8.652	8.652	0.000	88644625H	2.00	1.77	
						RPD = 1.45	
6 Demeton-O							
1	9.947	9.947	0.000	32915327H	0.6800	0.6652	
2	10.578	10.578	0.000	35970436H	0.6800	0.6611	
						RPD = 0.61	
7 Thionazin							
1	10.136	10.136	0.000	97871952H	2.00	1.84	
2	10.683	10.683	0.000	109244944H	2.00	1.78	
						RPD = 3.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.550	10.550	0.000	103220697H	2.00	1.79	
2	10.862	10.862	0.000	113809529H	2.00	1.92	
						RPD = 7.22	
9 Phorate							
1	10.599	10.599	0.000	95994448H	2.00	1.78	
2	11.503	11.503	0.000	112389556H	2.00	1.92	
						RPD = 7.41	
10 Sulfotepp							
1	10.973	10.973	0.000	158957161H	2.00	1.96	
2	11.464	11.464	0.000	173984818H	2.00	1.92	
						RPD = 2.10	
11 Diazinon							
1	11.413	11.413	0.000	83530552H	2.00	1.97	
2	12.565	12.565	0.000	79511350H	2.00	1.97	
						RPD = 0.22	
12 Disulfoton							M
1	11.771	11.771	0.000	108708855H	2.00	2.46	
2	12.767	12.767	0.000	77793732H	2.00	1.92	
						RPD = 24.78	
13 Demeton-S							M
1	11.790	11.790	0.000	71797496H	1.32	1.47	
2	11.938	11.938	0.000	70415614H	1.32	1.32	
						RPD = 10.67	
14 Dimethoate							
1	12.583	12.583	0.000	80709423H	2.00	2.06	
2	12.348	12.348	0.000	91533337H	2.00	1.84	
						RPD = 11.54	
15 Ronnel							
1	12.907	12.907	0.000	64024670H	2.00	2.09	
2	14.328	14.328	0.000	56997736H	2.00	2.02	
						RPD = 3.46	
16 Chlorpyrifos							
1	13.619	13.619	0.000	50152004H	2.00	2.14	
2	15.610	15.610	0.000	44401223H	2.00	2.02	
						RPD = 6.05	
17 Fenthion							
1	13.829	13.829	0.000	62209091H	2.00	2.07	
2	15.879	15.879	0.000	60594538H	2.00	2.04	
						RPD = 1.57	
18 Trichloronate							
1	13.902	13.902	0.000	49690173H	2.00	2.08	
2	15.747	15.747	0.000	46882248H	2.00	2.02	
						RPD = 2.91	
19 Methyl parathion							
1	14.635	14.635	0.000	53875503H	2.00	2.07	
2	14.270	14.270	0.000	63773270H	2.00	1.93	
						RPD = 6.69	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	14.981	14.981	0.000	39497117H	2.00	1.98	
2	15.491	15.491	0.000	43012991H	2.00	2.04	
						RPD = 3.15	
21 Tokuthion							
1	16.055	16.055	0.000	36702428H	2.00	1.94	
2	18.406	18.406	0.000	44012243H	2.00	2.00	
						RPD = 3.18	
22 Ethyl Parathion							
1	16.211	16.211	0.000	48722188H	2.00	1.99	
2	15.808	15.808	0.000	56715335H	2.00	2.04	
						RPD = 2.69	
23 Stirophos							
1	17.224	17.224	0.000	36036821H	2.00	1.99	
2	18.210	18.210	0.000	38952764H	2.00	2.06	
						RPD = 3.39	
24 Bolstar							
1	18.304	18.304	0.000	42719277H	2.00	2.03	
2	20.896	20.896	0.000	47731142H	2.00	2.02	
						RPD = 0.34	
25 Fensulfothion							
1	21.195	21.195	0.000	47054210H	2.00	1.89	
2	20.658	20.658	0.000	47141766H	2.00	1.96	
						RPD = 3.51	
26 EPN							
1	22.255	22.255	0.000	48230179H	2.00	2.04	
2	22.963	22.963	0.000	53322010H	2.00	2.02	
						RPD = 1.04	
27 Famphur							
1	22.500	22.500	0.000	54910514H	2.00	2.03	
2	21.586	21.586	0.000	54128508H	2.00	2.05	
						RPD = 1.07	
28 Azinphos-methyl							
1	22.894	22.894	0.000	44211236H	2.00	1.95	
2	24.147	24.147	0.000	50066621H	2.00	1.98	
						RPD = 1.38	
29 Coumaphos							
1	25.547	25.547	0.000	51745156H	2.00	2.14	
2	25.392	25.392	0.000	55012734H	2.00	1.97	
						RPD = 8.16	
S 30 Demeton, Total							
1					2.00	2.14	
2					2.00	1.99	
						RPD = 7.44	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCOPPLEVEL4_00004 Amount Added: 1.00 Units: mL

Report Date: 23-Aug-2018 10:54:40 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082301.D				
Injection Date:	23-Aug-2018 06:24:11	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	CCVRT			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

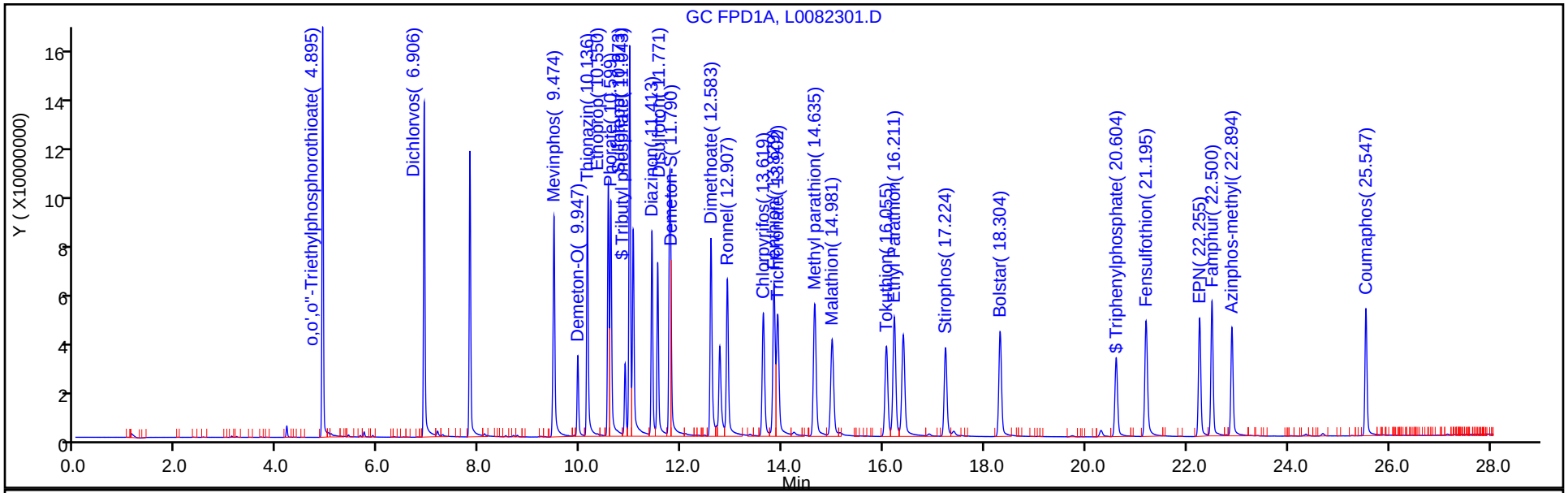

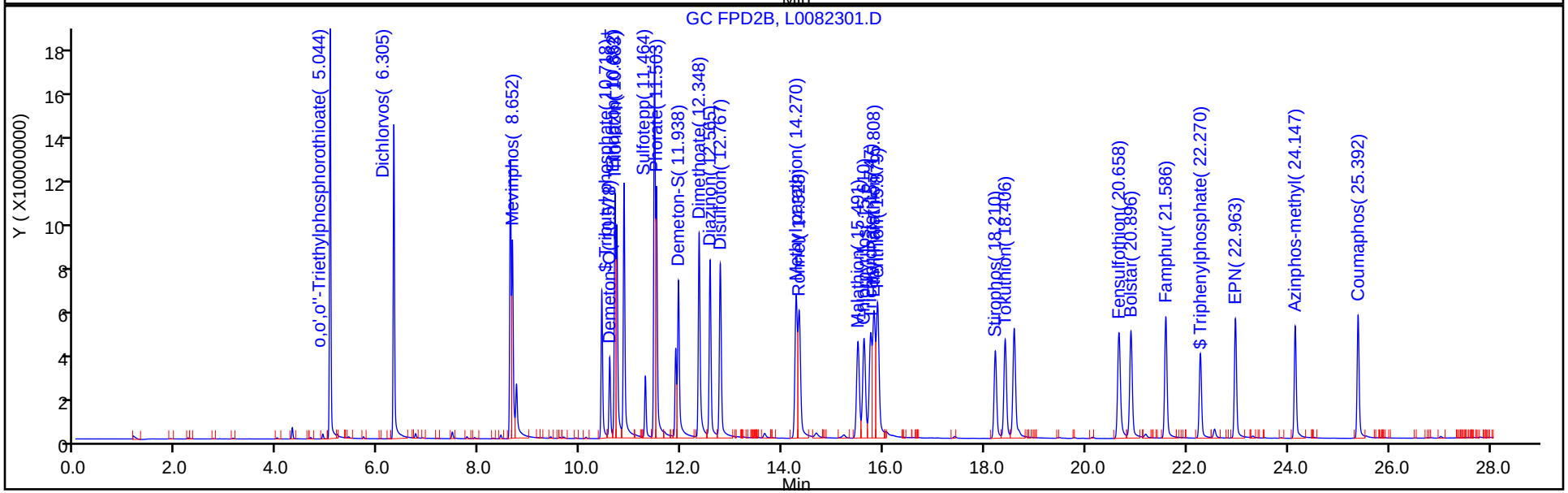

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Lab Sample ID: CCV 180-254752/7 Calibration Date: 08/23/2018 09:42

Instrument ID: CHGC5 Calib Start Date: 03/21/2018 08:43

GC Column: RTX-OPP1 ID: 0.53(mm) Calib End Date: 03/21/2018 10:55

Lab File ID: L0082307.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
O,O,O-Triethyl phosphorothioate	Ave	78289401	86621688		2.21	2.00	10.6	20.0
Dichlorvos	Ave	66871856	75687861		2.26	2.00	13.2	20.0
Mevinphos	Ave	50113953	48585900		1.94	2.00	-3.0	20.0
Demeton-O	Ave	49483227	50250844		0.691	0.680	1.6	20.0
Thionazin	Ave	53314169	51977724		1.95	2.00	-2.5	20.0
Mocap	Ave	57782696	54842823		1.90	2.00	-5.1	20.0
Phorate	Ave	53959369	50412402		1.87	2.00	-6.6	20.0
Sulfotepp	Ave	81113156	83977484		2.07	2.00	3.5	20.0
Diazinon	Ave	42410446	43348266		2.04	2.00	2.2	20.0
Disulfoton	Ave	44187823	58184160		2.63	2.00	31.7*	20.0
Demeton-S	Ave	48716002	52062261		1.41	1.32	6.9	20.0
Dimethoate	Ave	39181173	43337656		2.21	2.00	10.6	20.0
Ronnel	Ave	30572605	33899005		2.22	2.00	10.9	20.0
Chlorpyrifos	Ave	23414497	26652055		2.28	2.00	13.8	20.0
Fenthion	Ave	30049217	32558316		2.17	2.00	8.3	20.0
Trichloronate	Ave	23871279	26237711		2.20	2.00	9.9	20.0
Methyl parathion	Ave	26046259	28790375		2.21	2.00	10.5	20.0
Malathion	Ave	19987613	20803234		2.08	2.00	4.1	20.0
Tokuthion	Ave	18941636	19639378		2.07	2.00	3.7	20.0
Parathion	Ave	24539290	26124229		2.13	2.00	6.5	20.0
Stirophos	Ave	18124587	19101668		2.11	2.00	5.4	20.0
Bolstar	Ave	21039533	22609452		2.15	2.00	7.5	20.0
Fensulfothion	Ave	24924142	25821899		2.07	2.00	3.6	20.0
EPN	Ave	23628924	25250721		2.14	2.00	6.9	20.0
Famphur	Ave	27106054	28472190		2.10	2.00	5.0	20.0
Azinphos-methyl	Ave	22631409	23992514		2.12	2.00	6.0	20.0
Coumaphos	Ave	24206533	27618910		2.28	2.00	14.1	20.0
Tributyl phosphate	Ave	45496937	44171873		1.94	2.00	-2.9	20.0
Triphenylphosphate	Ave	16873704	16963682		2.01	2.00	0.5	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Lab Sample ID: CCV 180-254752/7 Calibration Date: 08/23/2018 09:42

Instrument ID: CHGC5 Calib Start Date: 03/21/2018 08:43

GC Column: RTX-OPP1 ID: 0.53(mm) Calib End Date: 03/21/2018 10:55

Lab File ID: L0082307.D

Analyte	RT	RT WINDOW	
		FROM	TO
O,O,O-Triethyl phosphorothioate	4.90	4.87	4.93
Dichlorvos	6.91	6.88	6.94
Mevinphos	9.48	9.44	9.50
Demeton-O	9.95	9.92	9.98
Thionazin	10.14	10.11	10.17
Mocap	10.55	10.52	10.58
Phorate	10.60	10.57	10.63
Sulfotepp	10.97	10.94	11.00
Diazinon	11.42	11.38	11.44
Disulfoton	11.77	11.74	11.80
Demeton-S	11.79	11.77	11.83
Dimethoate	12.58	12.55	12.61
Ronnel	12.91	12.88	12.94
Chlorpyrifos	13.62	13.59	13.65
Fenthion	13.83	13.80	13.86
Trichloronate	13.91	13.87	13.93
Methyl parathion	14.64	14.61	14.67
Malathion	14.98	14.95	15.01
Tokuthion	16.06	16.03	16.09
Parathion	16.21	16.18	16.24
Stirophos	17.22	17.19	17.25
Bolstar	18.31	18.27	18.33
Fensulfothion	21.19	21.17	21.23
EPN	22.26	22.23	22.29
Famphur	22.50	22.47	22.53
Azinphos-methyl	22.89	22.86	22.92
Coumaphos	25.55	25.52	25.58
Tributyl phosphate	11.04	11.01	11.07
Triphenylphosphate	20.60	20.57	20.63

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082307.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 23-Aug-2018 09:42:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0023306-007
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 23-Aug-2018 10:54:25 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Aug-2018 10:52:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.044	11.043	0.001	88343745H	2.00	1.94	
2	10.719	10.718	0.001	100684611H	2.00	1.88	
						RPD = 3.43	
$ 2 Triphenylphosphate							
1	20.604	20.604	0.000	33927364H	2.00	2.01	
2	22.271	22.270	0.001	39955447H	2.00	2.10	
						RPD = 4.56	
3 o,o',o''-Triethylphosphorothioate							
1	4.897	4.895	0.002	173243375H	2.00	2.21	
2	5.046	5.044	0.002	190781106H	2.00	2.14	
						RPD = 3.39	
4 Dichlorvos							
1	6.907	6.906	0.001	151375722H	2.00	2.26	
2	6.307	6.305	0.002	153703888H	2.00	2.16	
						RPD = 4.91	
5 Mevinphos							
1	9.476	9.474	0.002	97171799H	2.00	1.94	
2	8.654	8.652	0.002	95109983H	2.00	1.90	
						RPD = 2.26	
6 Demeton-O							
1	9.948	9.947	0.001	34170574H	0.6800	0.6905	
2	10.580	10.578	0.002	37743450H	0.6800	0.6937	
						RPD = 0.46	
7 Thionazin							
1	10.137	10.136	0.001	103955447H	2.00	1.95	
2	10.685	10.683	0.002	116018024H	2.00	1.89	
						RPD = 3.16	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.549	10.550	-0.001	109685646H	2.00	1.90	
2	10.863	10.862	0.001	119255045H	2.00	2.01	
						RPD = 5.82	
9 Phorate							
1	10.600	10.599	0.001	100824803H	2.00	1.87	
2	11.504	11.503	0.001	117220879H	2.00	2.00	
						RPD = 6.71	
10 Sulfotepp							
1	10.974	10.973	0.001	167954968H	2.00	2.07	
2	11.466	11.464	0.002	180809122H	2.00	1.99	
						RPD = 3.75	
11 Diazinon							
1	11.415	11.413	0.002	86696532H	2.00	2.04	
2	12.568	12.565	0.003	83870706H	2.00	2.07	
						RPD = 1.40	
12 Disulfoton							M
1	11.769	11.771	-0.002	116368319H	2.00	2.63	
2	12.769	12.767	0.002	82441530H	2.00	2.03	
						RPD = 25.77	
13 Demeton-S							M
1	11.793	11.798	-0.005	68722185H	1.32	1.41	
2	11.940	11.946	-0.006	74527998H	1.32	1.40	
						RPD = 0.63	
14 Dimethoate							
1	12.584	12.583	0.001	86675312H	2.00	2.21	
2	12.350	12.348	0.002	98710578H	2.00	1.98	
						RPD = 11.13	
15 Ronnel							
1	12.909	12.907	0.002	67798010H	2.00	2.22	
2	14.331	14.328	0.003	59736814H	2.00	2.12	
						RPD = 4.49	
16 Chlorpyrifos							
1	13.620	13.619	0.001	53304110H	2.00	2.28	
2	15.614	15.610	0.004	46330320H	2.00	2.10	
						RPD = 7.89	
17 Fenthion							
1	13.834	13.829	0.005	65116632H	2.00	2.17	
2	15.884	15.879	0.005	63790797H	2.00	2.15	
						RPD = 1.00	
18 Trichloronate							
1	13.905	13.902	0.003	52475422H	2.00	2.20	
2	15.747	15.747	0.000	49582742H	2.00	2.14	
						RPD = 2.76	
19 Methyl parathion							
1	14.639	14.635	0.004	57580750H	2.00	2.21	
2	14.273	14.270	0.003	67421868H	2.00	2.05	
						RPD = 7.78	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	14.983	14.981	0.002	41606468H	2.00	2.08	
2	15.497	15.491	0.006	44798107H	2.00	2.12	
						RPD = 2.02	
21 Tokuthion							
1	16.057	16.055	0.002	39278756H	2.00	2.07	
2	18.409	18.406	0.003	45503021H	2.00	2.07	
						RPD = 0.27	
22 Ethyl Parathion							
1	16.213	16.211	0.002	52248457H	2.00	2.13	
2	15.814	15.808	0.006	59280363H	2.00	2.13	
						RPD = 0.13	
23 Stirophos							
1	17.224	17.224	0.000	38203335H	2.00	2.11	
2	18.212	18.210	0.002	41588708H	2.00	2.20	
						RPD = 4.10	
24 Bolstar							
1	18.306	18.304	0.002	45218904H	2.00	2.15	
2	20.898	20.896	0.002	50162264H	2.00	2.13	
						RPD = 1.06	
25 Fensulfothion							
1	21.194	21.195	-0.001	51643798H	2.00	2.07	
2	20.660	20.658	0.002	50812771H	2.00	2.11	
						RPD = 1.71	
26 EPN							
1	22.255	22.255	0.000	50501441H	2.00	2.14	
2	22.965	22.963	0.002	55635974H	2.00	2.11	
						RPD = 1.39	
27 Famphur							
1	22.499	22.500	-0.001	56944379H	2.00	2.10	
2	21.589	21.586	0.003	56959264H	2.00	2.15	
						RPD = 2.53	
28 Azinphos-methyl							
1	22.894	22.894	0.000	47985028H	2.00	2.12	
2	24.149	24.147	0.002	54038878H	2.00	2.14	
						RPD = 0.83	
29 Coumaphos							
1	25.548	25.547	0.001	55237820H	2.00	2.28	
2	25.394	25.392	0.002	58832550H	2.00	2.11	
						RPD = 7.98	
S 30 Demeton, Total							
1					2.00	2.10	
2					2.00	2.10	
						RPD = 0.27	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCOPPLEVEL4_00004 Amount Added: 1.00 Units: mL

Report Date: 23-Aug-2018 10:54:25 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082307.D				
Injection Date:	23-Aug-2018 09:42:30	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

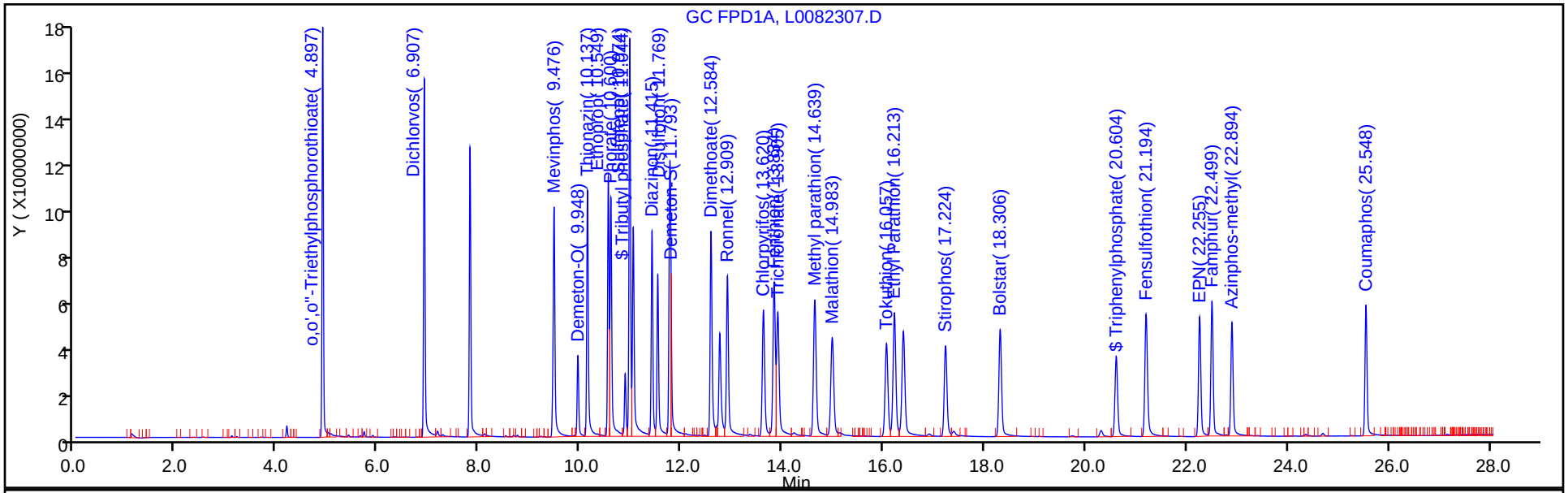

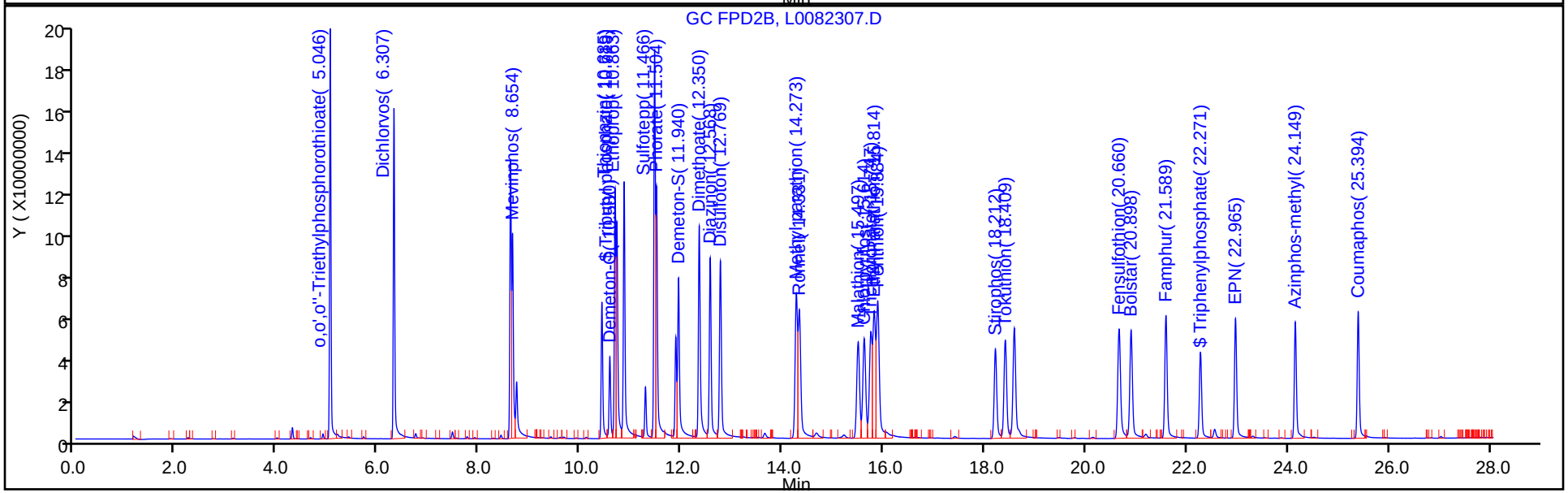

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Lab Sample ID: CCV 180-254752/7 Calibration Date: 08/23/2018 09:42

Instrument ID: CHGC5 Calib Start Date: 03/21/2018 08:43

GC Column: RTX-OPP2 ID: 0.53(mm) Calib End Date: 03/21/2018 10:55

Lab File ID: L0082307.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
O,O,O-Triethyl phosphorothioate	Ave	89183630	95390553		2.14	2.00	7.0	20.0
Dichlorvos	Ave	71316242	76851944		2.16	2.00	7.8	20.0
Mevinphos	Ave	50171782	47554992		1.90	2.00	-5.2	20.0
Demeton-O	Ave	54407666	55505074		0.694	0.680	2.0	20.0
Thionazin	Ave	61409613	58009012		1.89	2.00	-5.5	20.0
Mocap	Ave	59272201	59627523		2.01	2.00	0.6	20.0
Sulfotepp	Ave	90661250	90404561		1.99	2.00	-0.3	20.0
Phorate	Ave	58661425	58610440		2.00	2.00	-0.0	20.0
Demeton-S	Ave	53165777	56460605		1.40	1.32	6.2	20.0
Dimethoate	Ave	49879018	49355289		1.98	2.00	-1.0	20.0
Diazinon	Ave	40458009	41935353		2.07	2.00	3.7	20.0
Disulfoton	Ave	40565383	41220765		2.03	2.00	1.6	20.0
Methyl parathion	Ave	32966003	33710934		2.05	2.00	2.3	20.0
Ronnel	Ave	28174794	29868407		2.12	2.00	6.0	20.0
Malathion	Ave	21091247	22399054		2.12	2.00	6.2	20.0
Chlorpyrifos	Ave	22021860	23165160		2.10	2.00	5.2	20.0
Trichloronate	Ave	23187325	24791371		2.14	2.00	6.9	20.0
Parathion	Ave	27806550	29640182		2.13	2.00	6.6	20.0
Fenthion	Ave	29731805	31895399		2.15	2.00	7.3	20.0
Stirophos	Ave	18937639	20794354		2.20	2.00	9.8	20.0
Tokuthion	Ave	22002186	22751511		2.07	2.00	3.4	20.0
Fensulfothion	Ave	24108477	25406386		2.11	2.00	5.4	20.0
Bolstar	Ave	23587243	25081132		2.13	2.00	6.3	20.0
Famphur	Ave	26436726	28479632		2.15	2.00	7.7	20.0
EPN	Ave	26396281	27817987		2.11	2.00	5.4	20.0
Azinphos-methyl	Ave	25277133	27019439		2.14	2.00	6.9	20.0
Coumaphos	Ave	27924835	29416275		2.11	2.00	5.3	20.0
Tributyl phosphate	Ave	53661746	50342306		1.88	2.00	-6.2	20.0
Triphenylphosphate	Ave	18986089	19977724		2.10	2.00	5.2	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Lab Sample ID: CCV 180-254752/7 Calibration Date: 08/23/2018 09:42

Instrument ID: CHGC5 Calib Start Date: 03/21/2018 08:43

GC Column: RTX-OPP2 ID: 0.53(mm) Calib End Date: 03/21/2018 10:55

Lab File ID: L0082307.D

Analyte	RT	RT WINDOW	
		FROM	TO
O,O,O-Triethyl phosphorothioate	5.05	5.01	5.07
Dichlorvos	6.31	6.28	6.34
Mevinphos	8.65	8.62	8.68
Demeton-O	10.58	10.55	10.61
Thionazin	10.69	10.65	10.71
Mocap	10.86	10.83	10.89
Sulfotepp	11.47	11.43	11.49
Phorate	11.50	11.47	11.53
Demeton-S	11.94	11.92	11.98
Dimethoate	12.35	12.32	12.38
Diazinon	12.57	12.54	12.60
Disulfoton	12.77	12.74	12.80
Methyl parathion	14.27	14.24	14.30
Ronnel	14.33	14.30	14.36
Malathion	15.50	15.46	15.52
Chlorpyrifos	15.61	15.58	15.64
Trichloronate	15.75	15.72	15.78
Parathion	15.81	15.78	15.84
Fenthion	15.88	15.85	15.91
Stirophos	18.21	18.18	18.24
Tokuthion	18.41	18.38	18.44
Fensulfothion	20.66	20.63	20.69
Bolstar	20.90	20.87	20.93
Famphur	21.59	21.56	21.62
EPN	22.97	22.93	22.99
Azinphos-methyl	24.15	24.12	24.18
Coumaphos	25.39	25.36	25.42
Tributyl phosphate	10.72	10.69	10.75
Triphenylphosphate	22.27	22.24	22.30

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082307.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 23-Aug-2018 09:42:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0023306-007
Operator ID: 402331 Instrument ID: CHGC5
Sublist: chrom-8141_CHGC5*sub7

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 23-Aug-2018 10:54:25 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Aug-2018 10:52:29

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.044	11.043	0.001	88343745H	2.00	1.94	
2	10.719	10.718	0.001	100684611H	2.00	1.88	
						RPD = 3.43	
$ 2 Triphenylphosphate							
1	20.604	20.604	0.000	33927364H	2.00	2.01	
2	22.271	22.270	0.001	39955447H	2.00	2.10	
						RPD = 4.56	
3 o,o',o''-Triethylphosphorothioate							
1	4.897	4.895	0.002	173243375H	2.00	2.21	
2	5.046	5.044	0.002	190781106H	2.00	2.14	
						RPD = 3.39	
4 Dichlorvos							
1	6.907	6.906	0.001	151375722H	2.00	2.26	
2	6.307	6.305	0.002	153703888H	2.00	2.16	
						RPD = 4.91	
5 Mevinphos							
1	9.476	9.474	0.002	97171799H	2.00	1.94	
2	8.654	8.652	0.002	95109983H	2.00	1.90	
						RPD = 2.26	
6 Demeton-O							
1	9.948	9.947	0.001	34170574H	0.6800	0.6905	
2	10.580	10.578	0.002	37743450H	0.6800	0.6937	
						RPD = 0.46	
7 Thionazin							
1	10.137	10.136	0.001	103955447H	2.00	1.95	
2	10.685	10.683	0.002	116018024H	2.00	1.89	
						RPD = 3.16	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
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2	10.863	10.862	0.001	119255045H	2.00	2.01	
						RPD = 5.82	
9 Phorate							
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2	11.504	11.503	0.001	117220879H	2.00	2.00	
						RPD = 6.71	
10 Sulfotepp							
1	10.974	10.973	0.001	167954968H	2.00	2.07	
2	11.466	11.464	0.002	180809122H	2.00	1.99	
						RPD = 3.75	
11 Diazinon							
1	11.415	11.413	0.002	86696532H	2.00	2.04	
2	12.568	12.565	0.003	83870706H	2.00	2.07	
						RPD = 1.40	
12 Disulfoton							M
1	11.769	11.771	-0.002	116368319H	2.00	2.63	
2	12.769	12.767	0.002	82441530H	2.00	2.03	
						RPD = 25.77	
13 Demeton-S							M
1	11.793	11.798	-0.005	68722185H	1.32	1.41	
2	11.940	11.946	-0.006	74527998H	1.32	1.40	
						RPD = 0.63	
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1	12.584	12.583	0.001	86675312H	2.00	2.21	
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2	15.884	15.879	0.005	63790797H	2.00	2.15	
						RPD = 1.00	
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1	13.905	13.902	0.003	52475422H	2.00	2.20	
2	15.747	15.747	0.000	49582742H	2.00	2.14	
						RPD = 2.76	
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2	14.273	14.270	0.003	67421868H	2.00	2.05	
						RPD = 7.78	

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2	15.497	15.491	0.006	44798107H	2.00	2.12	
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2	18.409	18.406	0.003	45503021H	2.00	2.07	
						RPD = 0.27	
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						RPD = 0.13	
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						RPD = 4.10	
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						RPD = 2.53	
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2	24.149	24.147	0.002	54038878H	2.00	2.14	
						RPD = 0.83	
29 Coumaphos							
1	25.548	25.547	0.001	55237820H	2.00	2.28	
2	25.394	25.392	0.002	58832550H	2.00	2.11	
						RPD = 7.98	
S 30 Demeton, Total							
1					2.00	2.10	
2					2.00	2.10	
						RPD = 0.27	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GCOPPLEVEL4_00004 Amount Added: 1.00 Units: mL

Report Date: 23-Aug-2018 10:54:26 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082307.D				
Injection Date:	23-Aug-2018 09:42:30	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

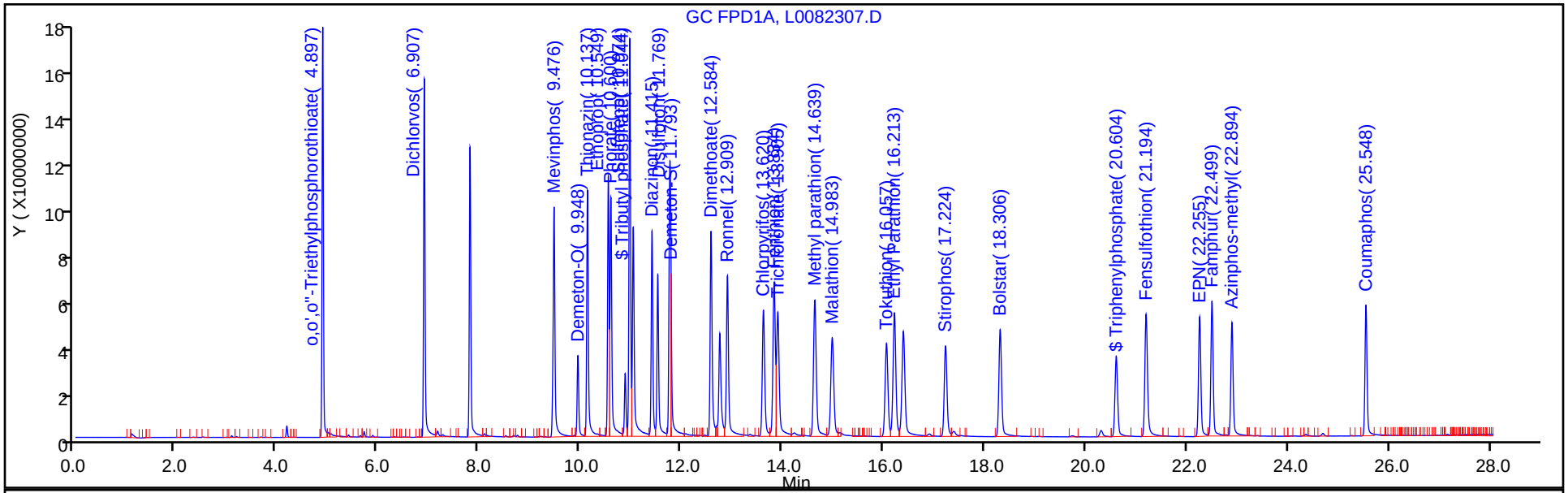

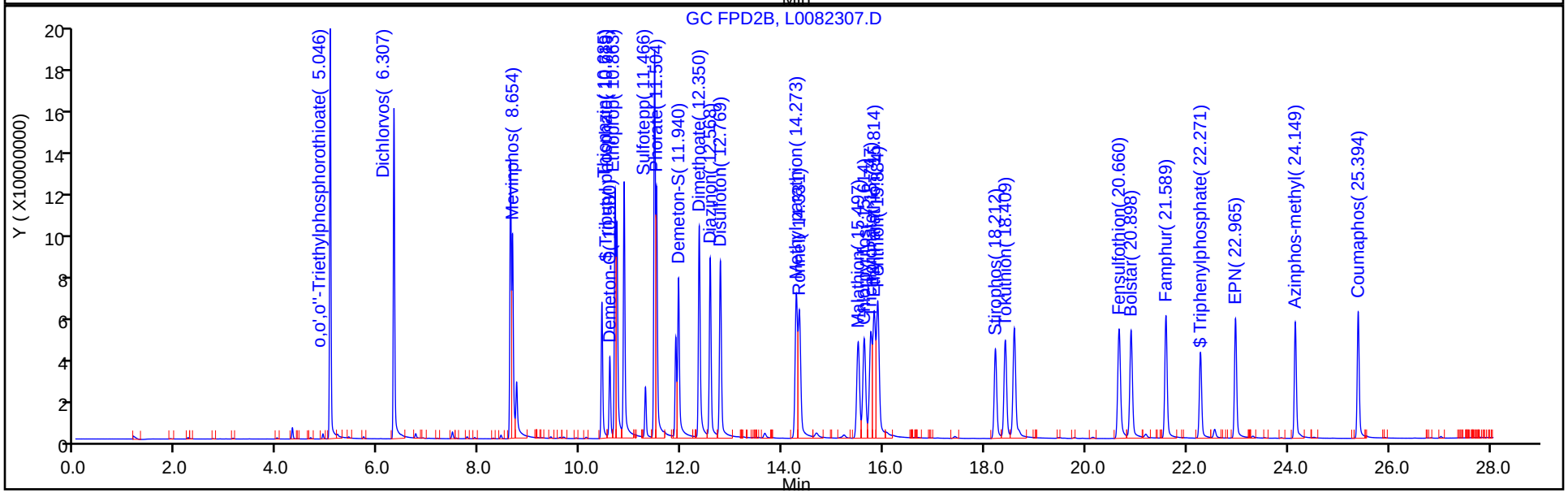

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 460-162840-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 180-254675/1-A
Matrix: Solid
Lab File ID: L0082302.D
Analysis Method: EPA 8141B
Date Collected:
Extraction Method: 3541
Date Extracted: 08/22/2018 11:30
Sample wt/vol: 15.0(g)
Date Analyzed: 08/23/2018 06:57
Con. Extract Vol.: 2.5(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: RTX-OPP1 ID: 0.53(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 254752
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-38-2	Parathion	4.1	U	33	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
126-73-8	Tributyl phosphate	81		20-150
115-86-6	Triphenylphosphate	87		34-150

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082302.D
Lims ID: MB 180-254675/1-A
Client ID:
Sample Type: MB
Inject. Date: 23-Aug-2018 06:57:19 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0023306-002
Operator ID: 402331 Instrument ID: CHGC5

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 23-Aug-2018 10:54:25 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Aug-2018 08:33:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.043	11.043	0.000	73674353H	2.00	1.62	
2	10.719	10.718	0.001	76462605H	2.00	1.42	
						RPD = 12.77	
$ 2 Triphenylphosphate							
1	20.601	20.604	-0.003	29291416H	2.00	1.74	
2	22.268	22.270	-0.002	34975429H	2.00	1.84	
						RPD = 5.94	
3 o,o',o''-Triethylphosphorothioate							
1		4.895				ND	
2		5.044					
4 Dichlorvos							
1		6.906				ND	
2		6.305					
5 Mevinphos							
1		9.474				ND	
2		8.652					
6 Demeton-O							
1		9.947				ND	
2		10.578					
7 Thionazin							
1		10.136				ND	
2		10.683					
8 Ethoprop							
1		10.550				ND	
2		10.862					
9 Phorate							
1		10.599				ND	
2		11.503					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
10 Sulfotepp							
1		10.973				ND	
2		11.464					
11 Diazinon							
1		11.413				ND	
2		12.565					
12 Disulfoton							
1		11.771				ND	
2		12.767					
13 Demeton-S							
1		11.798				ND	
2		11.946					
14 Dimethoate							U
1		12.583				ND	
2		12.348					
15 Ronnel							
1		12.907				ND	
2		14.328					
16 Chlorpyrifos							
1		13.619				ND	
2		15.610					
17 Fenthion							
1		13.829				ND	
2		15.879					
18 Trichloronate							
1		13.902				ND	
2		15.747					
19 Methyl parathion							
1		14.635				ND	
2		14.270					
20 Malathion							
1		14.981				ND	
2		15.491					
21 Tokuthion							
1		16.055				ND	
2		18.406					
22 Ethyl Parathion							
1		16.211				ND	
2		15.808					
23 Stirophos							
1		17.224				ND	
2		18.210					
24 Bolstar							
1		18.304				ND	
2		20.896					
25 Fensulfothion							
1		21.195				ND	
2		20.658					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
26 EPN							
1		22.255				ND	
2		22.963					
27 Famphur							
1		22.500				ND	
2		21.586					
28 Azinphos-methyl							
1		22.894				ND	
2		24.147					
29 Coumaphos							
1		25.547				ND	
2		25.392					
S 30 Demeton, Total							
1		10.230				ND	
2		10.611					

QC Flag Legend

Review Flags

U - Marked Undetected

Report Date: 23-Aug-2018 10:54:37 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082302.D				
Injection Date:	23-Aug-2018 06:57:19	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	MB 180-254675/1-A			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

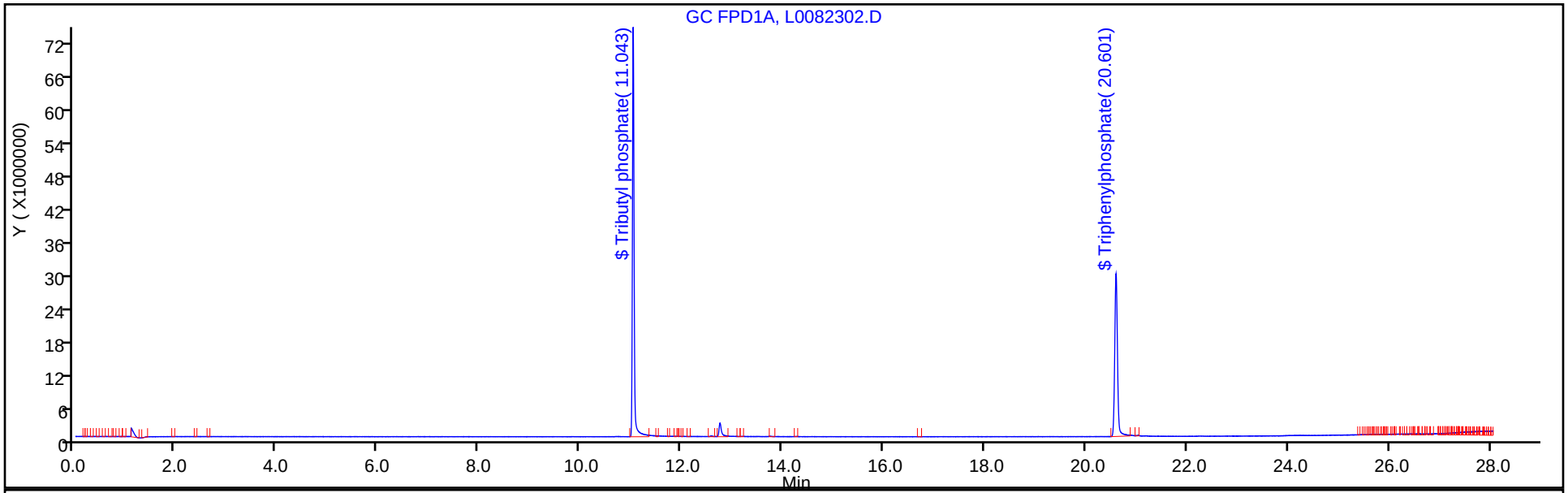

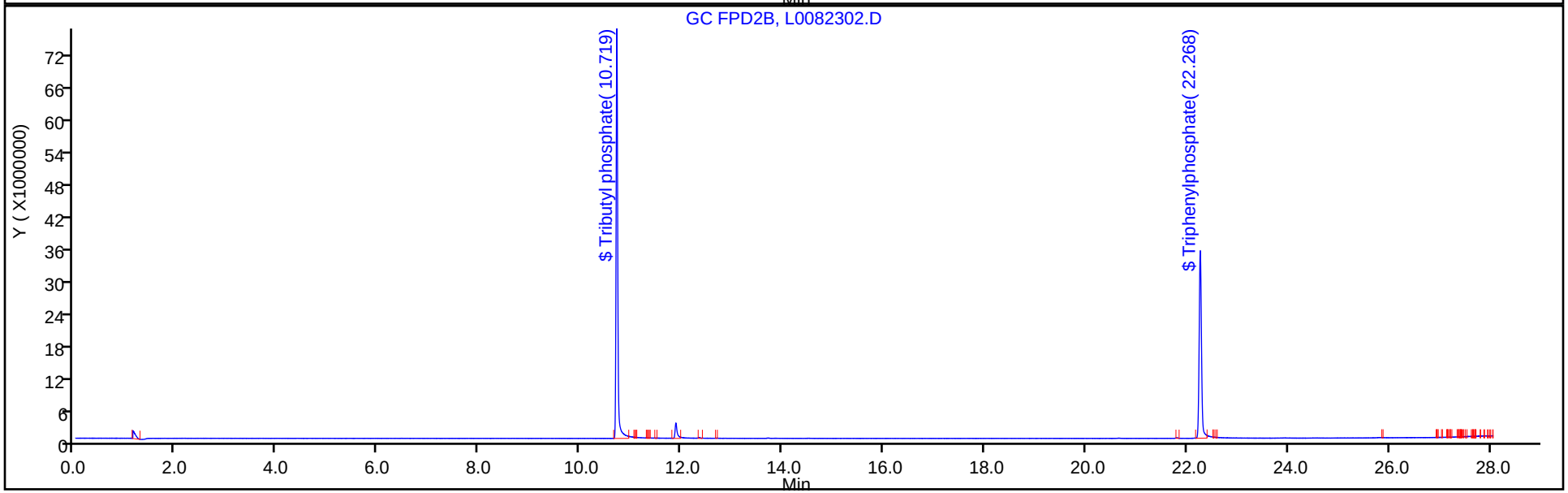

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 180-254675/1-A

Matrix: Solid Lab File ID: L0082302.D

Analysis Method: EPA 8141B Date Collected:

Extraction Method: 3541 Date Extracted: 08/22/2018 11:30

Sample wt/vol: 15.0(g) Date Analyzed: 08/23/2018 06:57

Con. Extract Vol.: 2.5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-OPP2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 254752 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
126-73-8	Tributyl phosphate	71		20-150
115-86-6	Triphenylphosphate	92		34-150

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082302.D
Lims ID: MB 180-254675/1-A
Client ID:
Sample Type: MB
Inject. Date: 23-Aug-2018 06:57:19 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0023306-002
Operator ID: 402331 Instrument ID: CHGC5

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 23-Aug-2018 10:54:25 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Aug-2018 08:33:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.043	11.043	0.000	73674353H	2.00	1.62	
2	10.719	10.718	0.001	76462605H	2.00	1.42	
						RPD = 12.77	
$ 2 Triphenylphosphate							
1	20.601	20.604	-0.003	29291416H	2.00	1.74	
2	22.268	22.270	-0.002	34975429H	2.00	1.84	
						RPD = 5.94	
3 o,o',o''-Triethylphosphorothioate							
1		4.895				ND	
2		5.044					
4 Dichlorvos							
1		6.906				ND	
2		6.305					
5 Mevinphos							
1		9.474				ND	
2		8.652					
6 Demeton-O							
1		9.947				ND	
2		10.578					
7 Thionazin							
1		10.136				ND	
2		10.683					
8 Ethoprop							
1		10.550				ND	
2		10.862					
9 Phorate							
1		10.599				ND	
2		11.503					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
10 Sulfotepp							
1		10.973				ND	
2		11.464					
11 Diazinon							
1		11.413				ND	
2		12.565					
12 Disulfoton							
1		11.771				ND	
2		12.767					
13 Demeton-S							
1		11.798				ND	
2		11.946					
14 Dimethoate							U
1		12.583				ND	
2		12.348					
15 Ronnel							
1		12.907				ND	
2		14.328					
16 Chlorpyrifos							
1		13.619				ND	
2		15.610					
17 Fenthion							
1		13.829				ND	
2		15.879					
18 Trichloronate							
1		13.902				ND	
2		15.747					
19 Methyl parathion							
1		14.635				ND	
2		14.270					
20 Malathion							
1		14.981				ND	
2		15.491					
21 Tokuthion							
1		16.055				ND	
2		18.406					
22 Ethyl Parathion							
1		16.211				ND	
2		15.808					
23 Stirophos							
1		17.224				ND	
2		18.210					
24 Bolstar							
1		18.304				ND	
2		20.896					
25 Fensulfothion							
1		21.195				ND	
2		20.658					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
26 EPN							
1		22.255				ND	
2		22.963					
27 Famphur							
1		22.500				ND	
2		21.586					
28 Azinphos-methyl							
1		22.894				ND	
2		24.147					
29 Coumaphos							
1		25.547				ND	
2		25.392					
S 30 Demeton, Total							
1		10.230				ND	
2		10.611					

QC Flag Legend

Review Flags

U - Marked Undetected

Report Date: 23-Aug-2018 10:54:37 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082302.D				
Injection Date:	23-Aug-2018 06:57:19	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	MB 180-254675/1-A			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

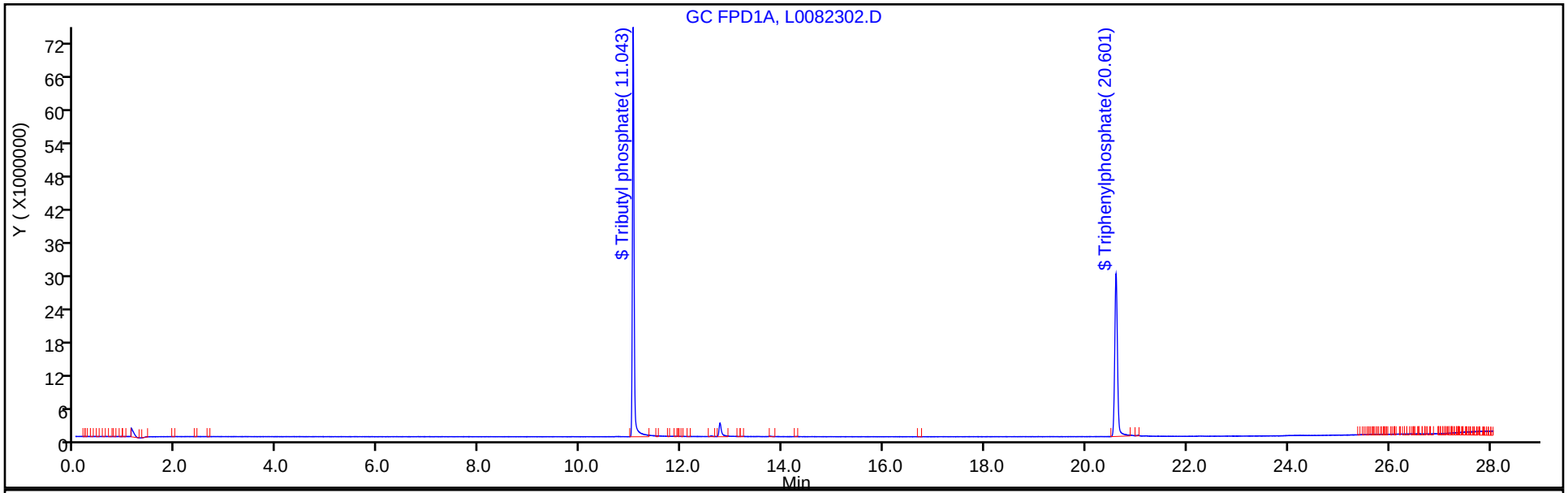

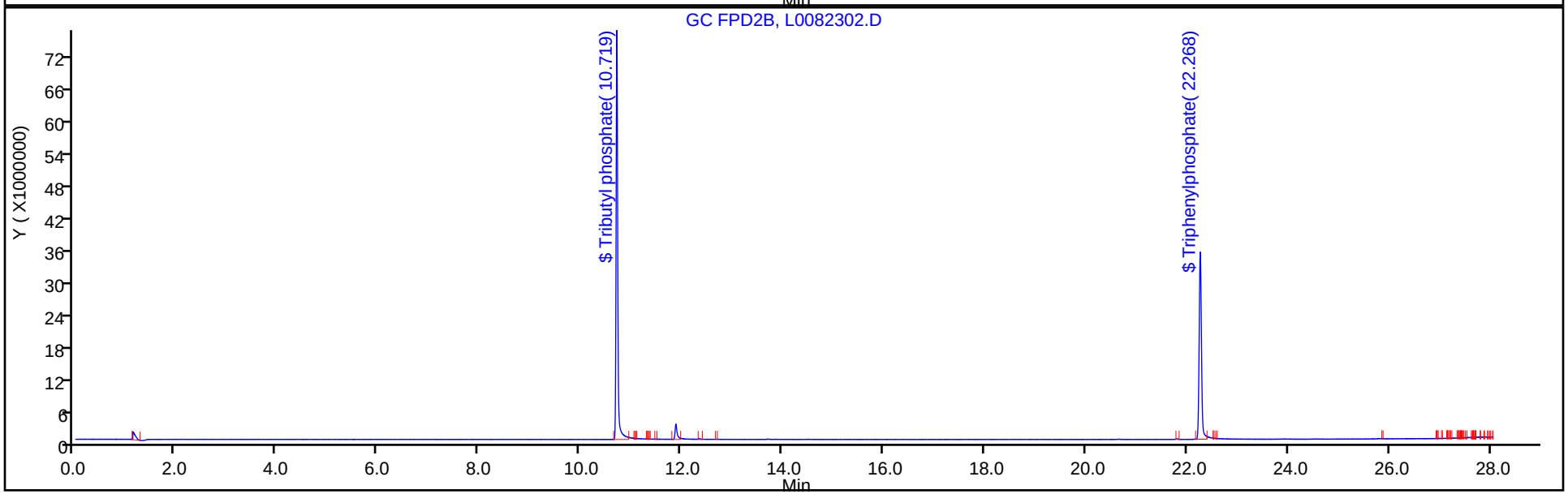

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 460-162840-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 180-254675/2-A
Matrix: Solid
Lab File ID: L0082306.D
Analysis Method: EPA 8141B
Date Collected:
Extraction Method: 3541
Date Extracted: 08/22/2018 11:30
Sample wt/vol: 15.0(g)
Date Analyzed: 08/23/2018 09:09
Con. Extract Vol.: 2.5(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: RTX-OPP1 ID: 0.53(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 254752
Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
126-73-8	Tributyl phosphate	87		20-150
115-86-6	Triphenylphosphate	88		34-150

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082306.D
Lims ID: LCS 180-254675/2-A
Client ID:
Sample Type: LCS
Inject. Date: 23-Aug-2018 09:09:31 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0023306-006
Operator ID: 402331 Instrument ID: CHGC5

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 23-Aug-2018 10:54:25 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Aug-2018 10:52:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.044	11.043	0.001	78771726H	2.00	1.73	
2	10.718	10.718	0.000	87732948H	2.00	1.63	
						RPD = 5.73	
$ 2 Triphenylphosphate							
1	20.602	20.604	-0.002	29554258H	2.00	1.75	
2	22.270	22.270	0.000	35005291H	2.00	1.84	
						RPD = 5.13	
3 o,o',o''-Triethylphosphorothioate							
1	4.898	4.895	0.003	130393302H	2.00	1.67	
2	5.046	5.044	0.002	143634877H	2.00	1.61	
						RPD = 3.36	
4 Dichlorvos							
1	6.908	6.906	0.002	72933462H	2.00	1.09	
2	6.308	6.305	0.003	73510634H	2.00	1.03	
						RPD = 5.64	
5 Mevinphos							
1	9.476	9.474	0.002	72027966H	2.00	1.44	
2	8.654	8.652	0.002	74358252H	2.00	1.48	
						RPD = 3.07	
6 Demeton-O							
1	9.947	9.947	0.000	28988176H	0.6800	0.5858	
2	10.580	10.578	0.002	31043752H	0.6800	0.5706	
						RPD = 2.64	
7 Thionazin							
1	10.136	10.136	0.000	92637992H	2.00	1.74	
2	10.683	10.683	0.000	101281014H	2.00	1.65	
						RPD = 5.22	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.550	10.550	0.000	95710603H	2.00	1.66	
2	10.862	10.862	0.000	103057897H	2.00	1.74	
						RPD = 4.85	
9 Phorate							
1	10.600	10.599	0.001	84998941H	2.00	1.58	
2	11.503	11.503	0.000	96641332H	2.00	1.65	
						RPD = 4.48	
10 Sulfotepp							
1	10.975	10.973	0.002	142516942H	2.00	1.76	
2	11.465	11.464	0.001	156280547H	2.00	1.72	
						RPD = 1.91	
11 Diazinon							
1	11.415	11.413	0.002	75637904H	2.00	1.78	
2	12.565	12.565	0.000	71319988H	2.00	1.76	
						RPD = 1.17	
12 Disulfoton							M
1	11.769	11.771	-0.002	100225127H	2.00	2.27	
2	12.767	12.767	0.000	69748846H	2.00	1.72	
						RPD = 27.52	
13 Demeton-S							M
1	11.794	11.798	-0.004	50529906H	1.32	1.04	
2	11.939	11.946	-0.007	61091518H	1.32	1.15	
						RPD = 10.23	
14 Dimethoate							
1	12.581	12.583	-0.002	66512080H	2.00	1.70	
2	12.346	12.348	-0.002	75919086H	2.00	1.52	
						RPD = 10.90	
15 Ronnel							
1	12.906	12.907	-0.001	58174887H	2.00	1.90	
2	14.330	14.328	0.002	50098432H	2.00	1.78	
						RPD = 6.78	
16 Chlorpyrifos							
1	13.619	13.619	0.000	46056266H	2.00	1.97	
2	15.614	15.610	0.004	39813079H	2.00	1.81	
						RPD = 8.43	
17 Fenthion							
1	13.830	13.829	0.001	55959910H	2.00	1.86	
2	15.880	15.879	0.001	53592187H	2.00	1.80	
						RPD = 3.26	
18 Trichloronate							
1	13.904	13.902	0.002	44657039H	2.00	1.87	
2	15.746	15.747	-0.001	42039685H	2.00	1.81	
						RPD = 3.13	
19 Methyl parathion							
1	14.635	14.635	0.000	48997691H	2.00	1.88	
2	14.268	14.270	-0.002	57389968H	2.00	1.74	
						RPD = 7.75	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	14.982	14.981	0.001	35312484H	2.00	1.77	
2	15.493	15.491	0.002	38200125H	2.00	1.81	
						RPD = 2.49	
21 Tokuthion							
1	16.054	16.055	-0.001	33864713H	2.00	1.79	
2	18.407	18.406	0.001	39467429H	2.00	1.79	
						RPD = 0.33	
22 Ethyl Parathion							
1	16.212	16.211	0.001	43125228H	2.00	1.76	
2	15.811	15.808	0.003	49998663H	2.00	1.80	
						RPD = 2.29	
23 Stirophos							
1	17.225	17.224	0.001	32848626H	2.00	1.81	
2	18.210	18.210	0.000	34755902H	2.00	1.84	
						RPD = 1.26	
24 Bolstar							
1	18.303	18.304	-0.001	38885736H	2.00	1.85	
2	20.896	20.896	0.000	42538015H	2.00	1.80	
						RPD = 2.45	
25 Fensulfothion							
1	21.193	21.195	-0.002	45474113H	2.00	1.82	
2	20.654	20.658	-0.004	46409477H	2.00	1.93	
						RPD = 5.36	
26 EPN							
1	22.253	22.255	-0.002	41149024H	2.00	1.74	
2	22.963	22.963	0.000	45503531H	2.00	1.72	
						RPD = 1.02	
27 Famphur							
1	22.499	22.500	-0.001	47362264H	2.00	1.75	
2	21.585	21.586	-0.001	47776129H	2.00	1.81	
						RPD = 3.37	
28 Azinphos-methyl							
1	22.891	22.894	-0.003	42951536H	2.00	1.90	
2	24.145	24.147	-0.002	48344852H	2.00	1.91	
						RPD = 0.77	
29 Coumaphos							
1	25.545	25.547	-0.002	47062314H	2.00	1.94	
2	25.390	25.392	-0.002	50715959H	2.00	1.82	
						RPD = 6.81	
S 30 Demeton, Total							
1					2.00	1.62	
2					2.00	1.72	
						RPD = 5.78	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 23-Aug-2018 10:54:27 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082306.D				
Injection Date:	23-Aug-2018 09:09:31	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	LCS 180-254675/2-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

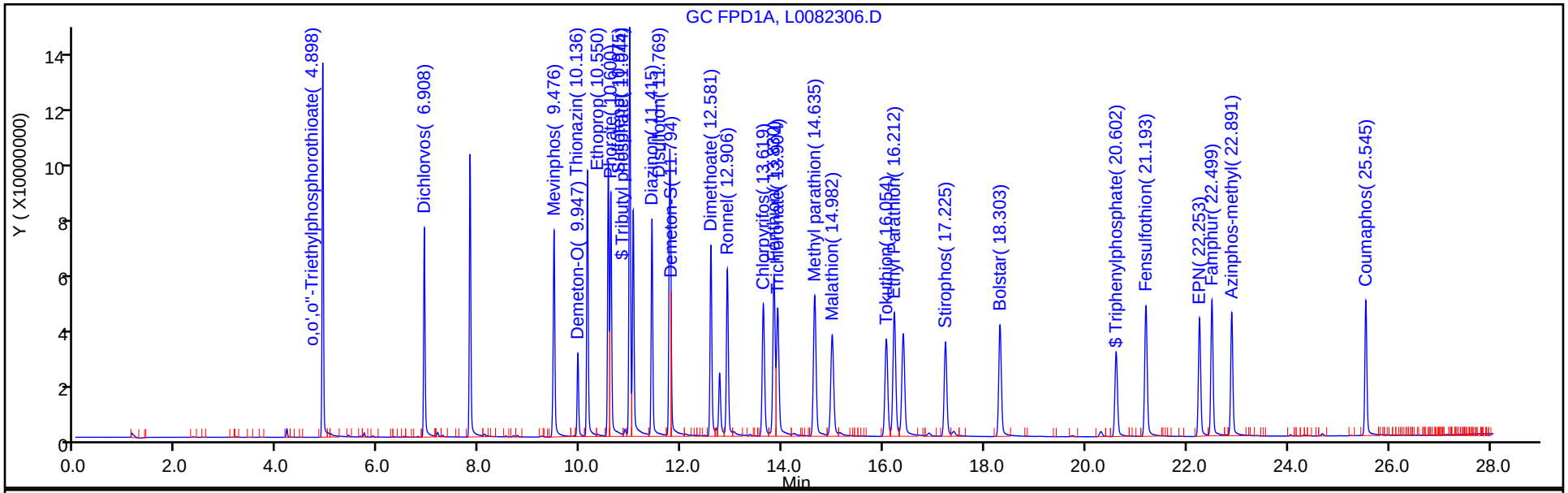

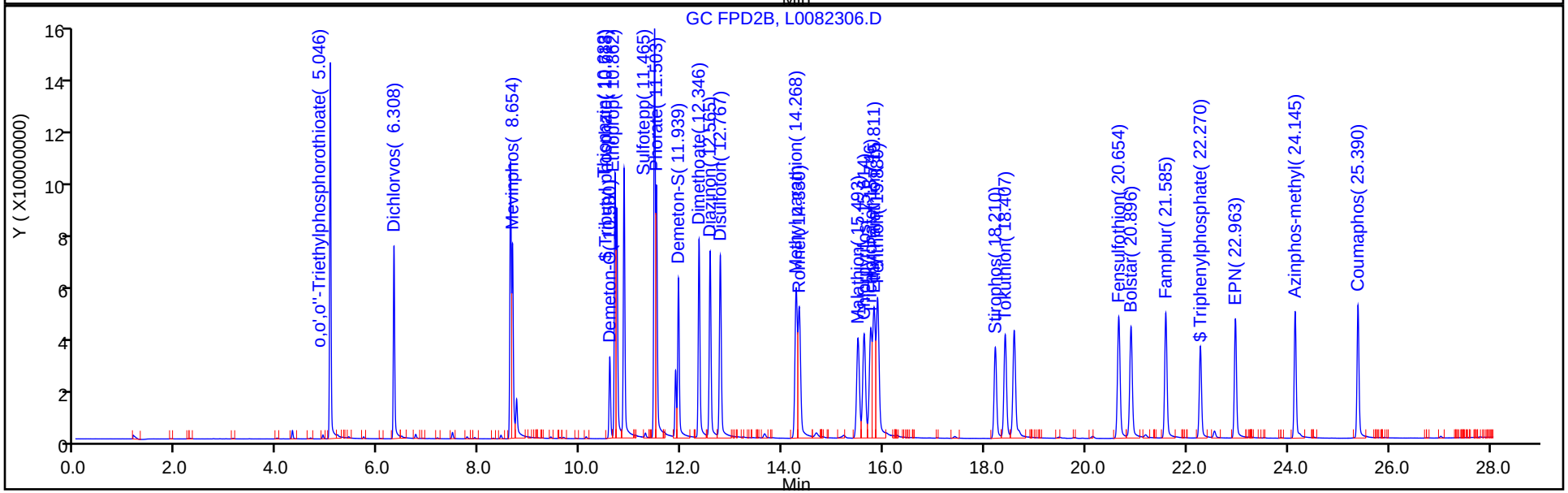

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 460-162840-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 180-254675/2-A
Matrix: Solid
Lab File ID: L0082306.D
Analysis Method: EPA 8141B
Date Collected:
Extraction Method: 3541
Date Extracted: 08/22/2018 11:30
Sample wt/vol: 15.0(g)
Date Analyzed: 08/23/2018 09:09
Con. Extract Vol.: 2.5(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: RTX-OPP2 ID: 0.53(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 254752
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-38-2	Parathion	300		33	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
126-73-8	Tributyl phosphate	82		20-150
115-86-6	Triphenylphosphate	92		34-150

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082306.D
Lims ID: LCS 180-254675/2-A
Client ID:
Sample Type: LCS
Inject. Date: 23-Aug-2018 09:09:31 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 180-0023306-006
Operator ID: 402331 Instrument ID: CHGC5

Method: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\8141_CHGC5.m
Limit Group: GCS 8141B ICAL
Last Update: 23-Aug-2018 10:54:25 Calib Date: 21-Mar-2018 10:55:20
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHGC5\20180321-20992.b\L0321009.D

Column 1 : Det: GC FPD1A
Column 2 : Det: GC FPD2B
Process Host: XAWRK020

First Level Reviewer: oravecj Date: 23-Aug-2018 10:52:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 1 Tributyl phosphate							
1	11.044	11.043	0.001	78771726H	2.00	1.73	
2	10.718	10.718	0.000	87732948H	2.00	1.63	
						RPD = 5.73	
$ 2 Triphenylphosphate							
1	20.602	20.604	-0.002	29554258H	2.00	1.75	
2	22.270	22.270	0.000	35005291H	2.00	1.84	
						RPD = 5.13	
3 o,o',o''-Triethylphosphorothioate							
1	4.898	4.895	0.003	130393302H	2.00	1.67	
2	5.046	5.044	0.002	143634877H	2.00	1.61	
						RPD = 3.36	
4 Dichlorvos							
1	6.908	6.906	0.002	72933462H	2.00	1.09	
2	6.308	6.305	0.003	73510634H	2.00	1.03	
						RPD = 5.64	
5 Mevinphos							
1	9.476	9.474	0.002	72027966H	2.00	1.44	
2	8.654	8.652	0.002	74358252H	2.00	1.48	
						RPD = 3.07	
6 Demeton-O							
1	9.947	9.947	0.000	28988176H	0.6800	0.5858	
2	10.580	10.578	0.002	31043752H	0.6800	0.5706	
						RPD = 2.64	
7 Thionazin							
1	10.136	10.136	0.000	92637992H	2.00	1.74	
2	10.683	10.683	0.000	101281014H	2.00	1.65	
						RPD = 5.22	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
8 Ethoprop							
1	10.550	10.550	0.000	95710603H	2.00	1.66	
2	10.862	10.862	0.000	103057897H	2.00	1.74	
						RPD = 4.85	
9 Phorate							
1	10.600	10.599	0.001	84998941H	2.00	1.58	
2	11.503	11.503	0.000	96641332H	2.00	1.65	
						RPD = 4.48	
10 Sulfotepp							
1	10.975	10.973	0.002	142516942H	2.00	1.76	
2	11.465	11.464	0.001	156280547H	2.00	1.72	
						RPD = 1.91	
11 Diazinon							
1	11.415	11.413	0.002	75637904H	2.00	1.78	
2	12.565	12.565	0.000	71319988H	2.00	1.76	
						RPD = 1.17	
12 Disulfoton							M
1	11.769	11.771	-0.002	100225127H	2.00	2.27	
2	12.767	12.767	0.000	69748846H	2.00	1.72	
						RPD = 27.52	
13 Demeton-S							M
1	11.794	11.798	-0.004	50529906H	1.32	1.04	
2	11.939	11.946	-0.007	61091518H	1.32	1.15	
						RPD = 10.23	
14 Dimethoate							
1	12.581	12.583	-0.002	66512080H	2.00	1.70	
2	12.346	12.348	-0.002	75919086H	2.00	1.52	
						RPD = 10.90	
15 Ronnel							
1	12.906	12.907	-0.001	58174887H	2.00	1.90	
2	14.330	14.328	0.002	50098432H	2.00	1.78	
						RPD = 6.78	
16 Chlorpyrifos							
1	13.619	13.619	0.000	46056266H	2.00	1.97	
2	15.614	15.610	0.004	39813079H	2.00	1.81	
						RPD = 8.43	
17 Fenthion							
1	13.830	13.829	0.001	55959910H	2.00	1.86	
2	15.880	15.879	0.001	53592187H	2.00	1.80	
						RPD = 3.26	
18 Trichloronate							
1	13.904	13.902	0.002	44657039H	2.00	1.87	
2	15.746	15.747	-0.001	42039685H	2.00	1.81	
						RPD = 3.13	
19 Methyl parathion							
1	14.635	14.635	0.000	48997691H	2.00	1.88	
2	14.268	14.270	-0.002	57389968H	2.00	1.74	
						RPD = 7.75	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng	OnCol Amt ng	Flags
20 Malathion							
1	14.982	14.981	0.001	35312484H	2.00	1.77	
2	15.493	15.491	0.002	38200125H	2.00	1.81	
						RPD = 2.49	
21 Tokuthion							
1	16.054	16.055	-0.001	33864713H	2.00	1.79	
2	18.407	18.406	0.001	39467429H	2.00	1.79	
						RPD = 0.33	
22 Ethyl Parathion							
1	16.212	16.211	0.001	43125228H	2.00	1.76	
2	15.811	15.808	0.003	49998663H	2.00	1.80	
						RPD = 2.29	
23 Stirophos							
1	17.225	17.224	0.001	32848626H	2.00	1.81	
2	18.210	18.210	0.000	34755902H	2.00	1.84	
						RPD = 1.26	
24 Bolstar							
1	18.303	18.304	-0.001	38885736H	2.00	1.85	
2	20.896	20.896	0.000	42538015H	2.00	1.80	
						RPD = 2.45	
25 Fensulfothion							
1	21.193	21.195	-0.002	45474113H	2.00	1.82	
2	20.654	20.658	-0.004	46409477H	2.00	1.93	
						RPD = 5.36	
26 EPN							
1	22.253	22.255	-0.002	41149024H	2.00	1.74	
2	22.963	22.963	0.000	45503531H	2.00	1.72	
						RPD = 1.02	
27 Famphur							
1	22.499	22.500	-0.001	47362264H	2.00	1.75	
2	21.585	21.586	-0.001	47776129H	2.00	1.81	
						RPD = 3.37	
28 Azinphos-methyl							
1	22.891	22.894	-0.003	42951536H	2.00	1.90	
2	24.145	24.147	-0.002	48344852H	2.00	1.91	
						RPD = 0.77	
29 Coumaphos							
1	25.545	25.547	-0.002	47062314H	2.00	1.94	
2	25.390	25.392	-0.002	50715959H	2.00	1.82	
						RPD = 6.81	
S 30 Demeton, Total							
1					2.00	1.62	
2					2.00	1.72	
						RPD = 5.78	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 23-Aug-2018 10:54:28 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHGC5\20180823-23306.b\L0082306.D				
Injection Date:	23-Aug-2018 09:09:31	Instrument ID:	CHGC5	Operator ID:	402331
Lims ID:	LCS 180-254675/2-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8141_CHGC5	Limit Group:	GCS 8141B ICAL		

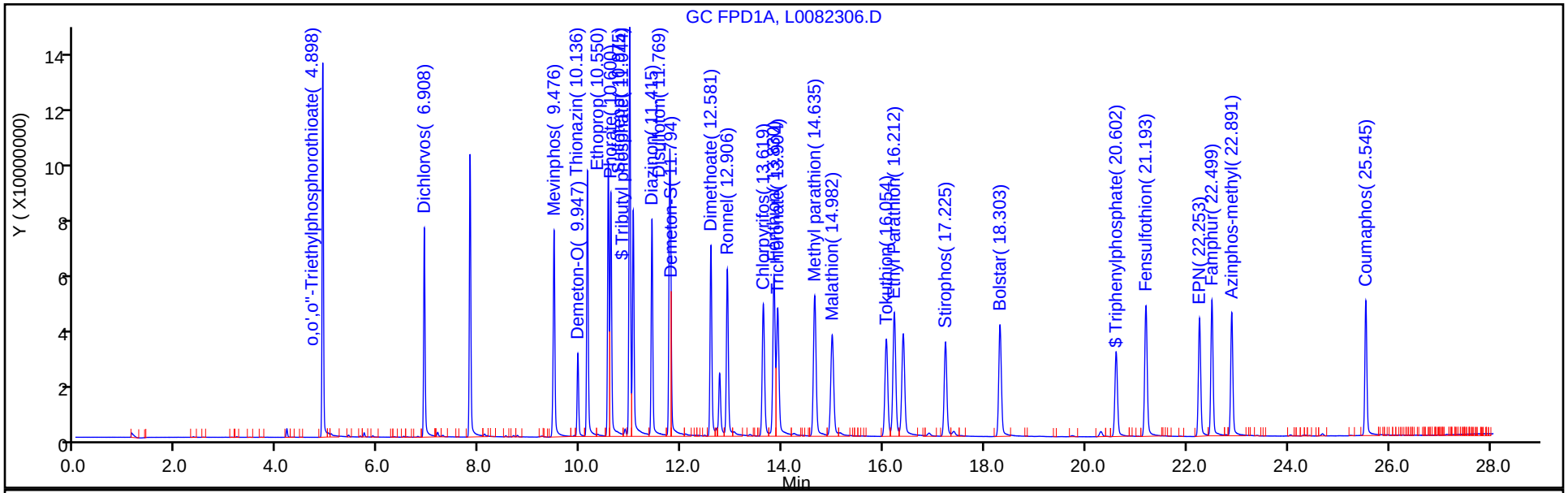

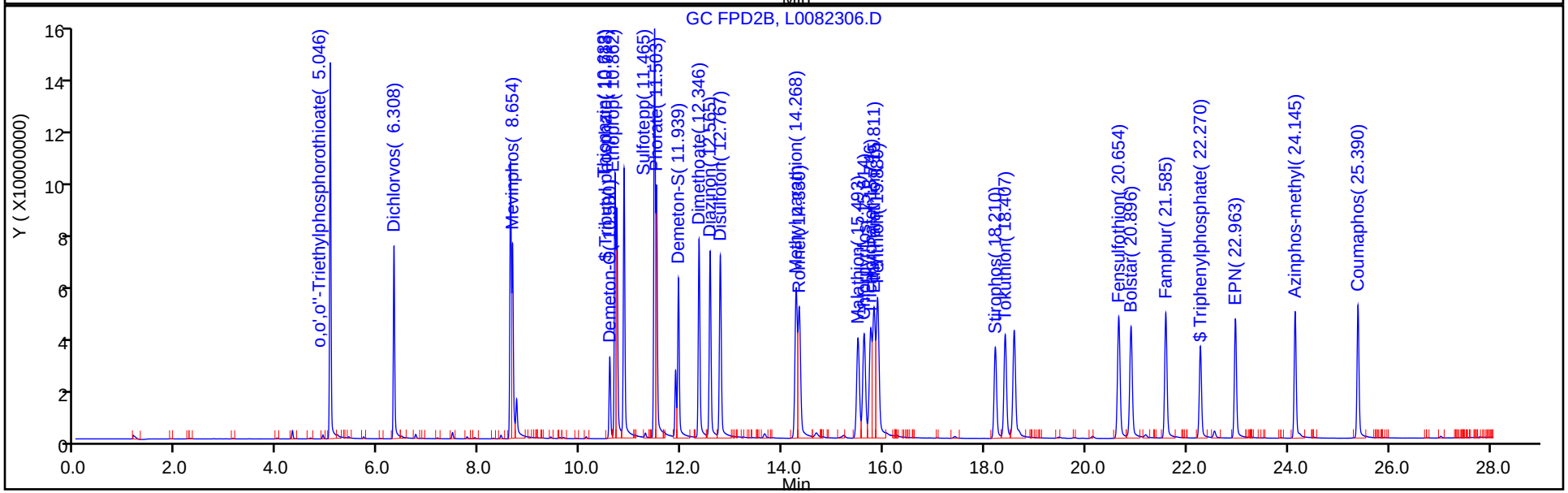

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Client Sample ID: AD05999-001 MS Lab Sample ID: 460-162840-1 MS

Matrix: Solid Lab File ID: L0082304.D

Analysis Method: EPA 8141B Date Collected: 08/15/2018 14:00

Extraction Method: 3541 Date Extracted: 08/22/2018 11:30

Sample wt/vol: 15.0(g) Date Analyzed: 08/23/2018 08:03

Con. Extract Vol.: 2.5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-OPP1 ID: 0.53(mm)

% Moisture: 19.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 254752 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
126-73-8	Tributyl phosphate	72		20-150
115-86-6	Triphenylphosphate	77		34-150

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 460-162840-1
SDG No.:
Client Sample ID: AD05999-001 MS
Lab Sample ID: 460-162840-1 MS
Matrix: Solid
Lab File ID: L0082304.D
Analysis Method: EPA 8141B
Date Collected: 08/15/2018 14:00
Extraction Method: 3541
Date Extracted: 08/22/2018 11:30
Sample wt/vol: 15.0(g)
Date Analyzed: 08/23/2018 08:03
Con. Extract Vol.: 2.5(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: RTX-OPP2 ID: 0.53(mm)
% Moisture: 19.7
GPC Cleanup:(Y/N) N
Analysis Batch No.: 254752
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-38-2	Parathion	341		41	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
126-73-8	Tributyl phosphate	69		20-150
115-86-6	Triphenylphosphate	85		34-150

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Client Sample ID: AD05999-001 MSD Lab Sample ID: 460-162840-1 MSD

Matrix: Solid Lab File ID: L0082305.D

Analysis Method: EPA 8141B Date Collected: 08/15/2018 14:00

Extraction Method: 3541 Date Extracted: 08/22/2018 11:30

Sample wt/vol: 15.0(g) Date Analyzed: 08/23/2018 08:36

Con. Extract Vol.: 2.5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-OPP1 ID: 0.53(mm)

% Moisture: 19.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 254752 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
126-73-8	Tributyl phosphate	79		20-150
115-86-6	Triphenylphosphate	81		34-150

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 460-162840-1
SDG No.:
Client Sample ID: AD05999-001 MSD
Lab Sample ID: 460-162840-1 MSD
Matrix: Solid
Lab File ID: L0082305.D
Analysis Method: EPA 8141B
Date Collected: 08/15/2018 14:00
Extraction Method: 3541
Date Extracted: 08/22/2018 11:30
Sample wt/vol: 15.0(g)
Date Analyzed: 08/23/2018 08:36
Con. Extract Vol.: 2.5(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
GC Column: RTX-OPP2 ID: 0.53(mm)
% Moisture: 19.7
GPC Cleanup:(Y/N) N
Analysis Batch No.: 254752
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
56-38-2	Parathion	374		41	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
126-73-8	Tributyl phosphate	74		20-150
115-86-6	Triphenylphosphate	87		34-150

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Instrument ID: CHGC5 Start Date: 03/21/2018 08:43

Analysis Batch Number: 240093 End Date: 03/22/2018 00:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 180-240093/1		03/21/2018 08:43	1	L0321005.D	RTX-OPP1 0.53(mm)
IC 180-240093/1		03/21/2018 08:43	1	L0321005.D	RTX-OPP2 0.53(mm)
IC 180-240093/2		03/21/2018 09:16	1	L0321006.D	RTX-OPP1 0.53(mm)
IC 180-240093/2		03/21/2018 09:16	1	L0321006.D	RTX-OPP2 0.53(mm)
ICRT 180-240093/3		03/21/2018 09:49	1	L0321007.D	RTX-OPP1 0.53(mm)
ICRT 180-240093/3		03/21/2018 09:49	1	L0321007.D	RTX-OPP2 0.53(mm)
IC 180-240093/4		03/21/2018 10:22	1	L0321008.D	RTX-OPP1 0.53(mm)
IC 180-240093/4		03/21/2018 10:22	1	L0321008.D	RTX-OPP2 0.53(mm)
IC 180-240093/5		03/21/2018 10:55	1	L0321009.D	RTX-OPP1 0.53(mm)
IC 180-240093/5		03/21/2018 10:55	1	L0321009.D	RTX-OPP2 0.53(mm)
ICV 180-240093/6		03/21/2018 11:28	1		RTX-OPP1 0.53(mm)
ICV 180-240093/6		03/21/2018 11:28	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 12:01	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 12:01	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 12:34	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 12:34	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 13:56	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 13:56	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 14:29	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 14:29	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 15:02	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 15:02	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 15:35	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 15:35	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 16:08	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 16:08	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 16:41	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 16:41	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 17:14	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 17:14	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 17:47	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 17:47	1		RTX-OPP2 0.53(mm)
CCV 180-240093/17		03/21/2018 18:20	1		RTX-OPP1 0.53(mm)
CCV 180-240093/17		03/21/2018 18:20	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 18:53	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 18:53	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 19:26	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 19:26	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 19:59	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 19:59	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 20:32	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 20:32	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 21:05	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 21:05	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 21:38	1		RTX-OPP1 0.53(mm)

EPA 8141B

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Instrument ID: CHGC5 Start Date: 03/21/2018 08:43

Analysis Batch Number: 240093 End Date: 03/22/2018 00:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/21/2018 21:38	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 22:11	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 22:11	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 22:44	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 22:44	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 23:17	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 23:17	1		RTX-OPP2 0.53(mm)
ZZZZZ		03/21/2018 23:50	1		RTX-OPP1 0.53(mm)
ZZZZZ		03/21/2018 23:50	1		RTX-OPP2 0.53(mm)
CCV 180-240093/28		03/22/2018 00:23	1		RTX-OPP1 0.53(mm)
CCV 180-240093/28		03/22/2018 00:23	1		RTX-OPP2 0.53(mm)

EPA 8141B

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Instrument ID: CHGC5 Start Date: 08/23/2018 06:24

Analysis Batch Number: 254752 End Date: 08/23/2018 09:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 180-254752/1		08/23/2018 06:24	1	L0082301.D	RTX-OPP1 0.53(mm)
CCVRT 180-254752/1		08/23/2018 06:24	1	L0082301.D	RTX-OPP2 0.53(mm)
MB 180-254675/1-A		08/23/2018 06:57	1	L0082302.D	RTX-OPP1 0.53(mm)
MB 180-254675/1-A		08/23/2018 06:57	1	L0082302.D	RTX-OPP2 0.53(mm)
460-162840-1		08/23/2018 07:30	1	L0082303.D	RTX-OPP1 0.53(mm)
460-162840-1		08/23/2018 07:30	1	L0082303.D	RTX-OPP2 0.53(mm)
460-162840-1 MS		08/23/2018 08:03	1	L0082304.D	RTX-OPP1 0.53(mm)
460-162840-1 MS		08/23/2018 08:03	1	L0082304.D	RTX-OPP2 0.53(mm)
460-162840-1 MSD		08/23/2018 08:36	1	L0082305.D	RTX-OPP1 0.53(mm)
460-162840-1 MSD		08/23/2018 08:36	1	L0082305.D	RTX-OPP2 0.53(mm)
LCS 180-254675/2-A		08/23/2018 09:09	1	L0082306.D	RTX-OPP1 0.53(mm)
LCS 180-254675/2-A		08/23/2018 09:09	1	L0082306.D	RTX-OPP2 0.53(mm)
CCV 180-254752/7		08/23/2018 09:42	1	L0082307.D	RTX-OPP1 0.53(mm)
CCV 180-254752/7		08/23/2018 09:42	1	L0082307.D	RTX-OPP2 0.53(mm)

EPA 8141B

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Batch Number: 254675 Batch Start Date: 08/22/18 11:30 Batch Analyst: Clemente, Shawn A

Batch Method: 3541 Batch End Date: 08/22/18 15:12

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	OP8141MATRIXS 00042	OP8141SURRSPK 00018		
MB 180-254675/1		3541, EPA 8141B		15.0 g	2.5 mL		0.1 mL		
LCS 180-254675/2		3541, EPA 8141B		15.0 g	2.5 mL	0.25 mL	0.1 mL		
460-162840-A-1 MS	AD05999-001	3541, EPA 8141B	T	15.0 g	2.5 mL	0.25 mL	0.1 mL		
460-162840-A-1 MSD	AD05999-001	3541, EPA 8141B	T	15.0 g	2.5 mL	0.25 mL	0.1 mL		
460-162840-A-1	AD05999-001	3541, EPA 8141B	T	15.0 g	2.5 mL		0.1 mL		

Batch Notes	
Balance ID	T0358722
Analyst ID - Concentration	SC
Corrected Temperature	21 Degrees C
Exchange Solvent ID	Hexane 2855610
Analyst ID - Extraction	SC
Extraction 1 End Time	08/22/2018 15:12
Extraction 1 Start Time	08/22/2018 11:30
Na2SO4 ID	2843233
Nominal Amount Used	Yes g
Pipette/Syringe/Dispenser ID	2
Prep Solvent ID	Hexane/acetone 2853829
Soxtherm Unit ID	4
Analyst ID - Spike Analyst	SC
Sufficient Volume for Batch QC	Yes
Uncorrected Temperature	21 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job Number: 460-162840-1

SDG No.:

Project: 8081617

Client Sample ID	Lab Sample ID
AD05999-001	460-162840-1

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job Number: 460-162840-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: 2540G RL Date: 01/31/2010 13:27

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job Number: 460-162840-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: 2540G XRL Date: 01/31/2010 13:31

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

FORM IX - IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 460-162840-1

SDG No.:

Instrument ID: NOEQUIP Method: 2540G

Start Date: 08/23/2018 12:21 End Date: 08/23/2018 12:32

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
460-162840-1	1	T	12:21	X	X																		
460-162840-1 DU	1	T	12:21	X	X																		
ZZZZZZ			12:21																				
ZZZZZZ			12:21																				
ZZZZZZ			12:21																				
ZZZZZZ			12:21																				
ZZZZZZ			12:21																				
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ZZZZZZ			12:21																				
ZZZZZZ			12:21																				
ZZZZZZ			12:21																				
ZZZZZZ			12:32																				
ZZZZZZ			12:32																				
ZZZZZZ			12:32																				

Prep Types
T = Total/NA

Subcontract Data

Shipping and Receiving Documents

CHAIN OF CUSTODY RECORD

162840

Hampton-Clarke, Inc.
175 US Hwy 46 West
Fairfield, New Jersey, 07004
Ph:800-426-9992 Fax:973-439-1458

Report To:
Hampton-Clarke, Inc.:
Attn:Reporting
175 Route 46 West
Fairfield, New Jersey 07004

Invoice To:
Hampton-Clarke, Inc.:
Attn:Accounting
175 Route 46 West
Fairfield, New Jersey 07004

Project #: 8081617

CocID#: 5953

FINAL RESULTS TO: subresults@hcvlab.com
PRELIM/VERBAL RESULTS TO: subresults@hcvlab.com

EDD: NEW JERSEY HAZRESULT OR EQUIS EZEDD REQUIRED FOR ALL DATA SUBMITTALS!

Turn Around Time: Standard **Preliminary Due Date:** 8/31/2018
Report Type: NYDOH-R (REDUCED) **Hard Copy Due Date:** 9/10/2018

Sample Number:	Client ID	Matrix:	Date Collected:	Time Collected:	Analysis Requested
AD05999-001	SS-1	Soil	8/15/2018	2:00:00 PM	EPA 8141 (Parathion only)

460-162840 Chain of Custody

CS 8/16

Relinquished By:	Accepted By:	Date:	Time:	Comments, Notes, Special Requirements, HAZARDS
		8/17/18	925	
		8/17/18	9:25	

0.9 #9

Cooler Temp:_____

Subcontracted Lab Id and Contact: TA-Edison, Sapna Nyyar, (732) 549-3900, LabID: House, 777 New Durham Road, , Edison, NJ, 08817

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 162840

Number of Coolers: 1 IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	0.9 °C	0.9 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials: KG Date: 8/17/18

TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

460-162840 Chain of Custody

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Meidhof, Marie A		No: -52445.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: marie.meidhof@testamericainc.com	State of Origin: New Jersey	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New Jersey		Job #: 460-162840-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 8/20/2018			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			
Email:	WO #:			
Project Name: NY Sites	Project #: 46025105			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8141B/3541_7d Parathion	Moisture/ Percent Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
AD05999-001 (460-162840-1)	8/15/18	14:00 Eastern		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 8/21/18 1800	Company: TAEdi	Received by:	Date/Time: 8/22/18 915	Company: TAEdi
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Hampton-Clarke Veritech

Job Number: 460-162840-1

Login Number: 162840
List Number: 1
Creator: Jara, Kelly D

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Hampton-Clarke Veritech

Job Number: 460-162840-1

Login Number: 162840
List Number: 2
Creator: Say, Thomas C

List Source: TestAmerica Pittsburgh
List Creation: 08/22/18 10:43 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

www.pacelabs.com

Report Prepared for:

Natasha Davis
Veritech
175 W. Route 46
Fairfield NJ 07004

REPORT OF LABORATORY ANALYSIS FOR TCDD/TCDF

Report Prepared Date:
August 30, 2018

Report Information:

Pace Project #: 10443876
Sample Receipt Date: 08/17/2018
Client Project #: 8081617
Client Sub PO #: N/A
State Cert #: MN002

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Nathan Boberg, your Pace Project Manager.

This report has been reviewed by:

August 31, 2018
Nathan Boberg, Project Manager

(612) 607-6444 (fax)
nathan.boberg@pacelabs.com

Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analysis performed on one sample submitted by a representative of Veritech. The sample was analyzed for the presence or absence of 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) and 2,3,7,8-tetrachlorodibenzofuran (2,3,7,8-TCDF) using USEPA Method 1613B. The reporting limits were set to correspond to the lowest calibration points and were adjusted for sample amount.

The recoveries of the isotopically-labeled TCDD/TCDF internal standards in the sample extract ranged from 63-66%. All of the labeled standard recoveries obtained for this project were within the target ranges specified in Method 1613B. Also, since the quantification of the native congeners was based on isotope dilution, the data were automatically corrected for recovery and accurate values were obtained.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to be free of 2,3,7,8-TCDD and 2,3,7,8-TCDF at the reporting limits.

Laboratory and matrix spike samples were also prepared using clean reference matrix or sample matrix that had been fortified with native standard materials. The recoveries of the native compounds ranged from 104-118% with relative percent differences of 1.7-2.0%. These results were within the target ranges for the method.

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Minnesota - Pet	1240
Alabama	40770	Mississippi	MN00064
Alaska - DW	MN00064	Montana	CERT0092
Alaska - UST	17-009	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN00064
Arkansas - DW	MN00064	New Hampshire	2081
Arkansas - WW	88-0680	New Jersey (NE	MN002
CNMI Saipan	MP0003	New York	11647
California	2929	North Carolina	27700
Colorado	MN00064	North Carolina -	27700
Connecticut	PH-0256	North Carolina -	530
EPA Region 8+	via MN 027-053	North Dakota	R-036
Florida (NELAP	E87605	Ohio - DW	41244
Georgia	959	Ohio - VAP	CL101
Guam	17-001r	Oklahoma	9507
Hawaii	MN00064	Oregon - Primar	MN300001
Idaho	MN00064	Oregon - Secon	MN200001
Illinois	200011	Pennsylvania	68-00563
Indiana	C-MN-01	Puerto Rico	MN00064
Iowa	368	South Carolina	74003
Kansas	E-10167	South Dakota	NA
Kentucky - DW	90062	Tennessee	TN02818
Kentucky - WW	90062	Texas	T104704192
Louisiana - DE	03086	Utah (NELAP)	MN00064
Louisiana - DW	MN00064	Virginia	460163
Maine	MN00064	Washington	C486
Maryland	322	West Virginia -	382
Massachusetts	M-MN064	West Virginia -	9952C
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming - UST	2926.01
Minnesota - De	via MN 027-053		

REPORT OF LABORATORY ANALYSIS

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Report No.....10443876

Appendix A

Sample Management

CHAIN OF CUSTODY RECORD

Hampton-Clarke, Inc.
175 US Hwy 46 West
Fairfield, New Jersey, 07004
Ph:800-426-9992 Fax:973-439-1458

Report To:
Hampton-Clarke, Inc.:
Attn:Reporting
175 Route 46 West
Fairfield, New Jersey 07004

Invoice To:
Hampton-Clarke, Inc.:
Attn:Accounting
175 Route 46 West
Fairfield, New Jersey 07004

Project #: 8081617

CocID#: 5952

WO# : 10443876

10443876

FINAL RESULTS TO: subresults@hcvlab.com
PRELIM/VERBAL RESULTS TO: subresults@hcvlab.com

EDD: NEW JERSEY HAZRESULT OR EQUIS EZEDD REQUIRED FOR ALL DATA SUBMITTALS!

Turn Around Time: Standard **Preliminary Due Date:** 8/31/2018
Report Type: NYDOH-R (REDUCED) **Hard Copy Due Date:** 9/10/2018

Sample Number:	Client ID	Matrix:	Date Collected:	Time Collected:	Analysis Requested	
AD05999-001	SS-1	Soil	8/15/2018	2:00:00 PM	EPA 1613 (2,3,7,8-TCDD & PCDF only)	001

CA 8/16

Relinquished By:	Accepted By:	Date:	Time:	Comments, Notes, Special Requirements, HAZARDS
[signature] CRS	CRS	8/16/18	1720	T=2.9
	Austin PACE	8/17/18	825	

Cooler Temp:_____

HC Lab Use Only: **Subcontracted Lab Id and Contact:** Scott Unze, (612) 608-6383, LabID: H, 1700 Elm Street, Suite 200, Minneapolis, MN, 55414

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 02May2018 Page 1 of 2
	Document No.: **F-MN-L-213-rev.23**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Hampton-Clarke

Project #: **WO#: 10443876**

PM: NB3 **Due Date: 08/31/18**

CLIENT: H.C.Veritech

Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:

Tracking Number: 1Z1X784213978449647

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other: Foam **Temp Blank?** ☐ Yes ☒ No

Thermometer Used: ☒ G87A9170600254 ☐ G87A9155100842 **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Cooler Temp Read (°C): 2.4 **Cooler Temp Corrected (°C):** 2.5 **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Correction Factor:** +0.1 **Date and Initials of Person Examining Contents:** AS 8/17/18

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☒ Yes	☐ No		1.
Chain of Custody Filled Out?	☒ Yes	☐ No		2.
Chain of Custody Relinquished?	☒ Yes	☐ No		3.
Sampler Name and/or Signature on COC?	☐ Yes	☒ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No		5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		6.
Rush Turn Around Time Requested?	☐ Yes	☒ No		7.
Sufficient Volume?	☒ Yes	☐ No		8.
Correct Containers Used?	☒ Yes	☐ No		9.
-Pace Containers Used?	☐ Yes	☒ No		
Containers Intact?	☒ Yes	☐ No		10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11. Note if sediment is visible in the dissolved container
Is sufficient information available to reconcile the samples to the COC? Matrix: SL	☒ Yes	☐ No		12. No time on sample
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☒ N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes	☐ No	☒ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Client indicated needing TCDD+TCDF only

Project Manager Review: Nathan Boberg **Date:** 8/20/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Reporting Flags

A = Reporting Limit based on signal to noise

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Interference present

J = Estimated value

L = Suppressive interference, analyte may be biased low

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = See Discussion

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Appendix B

Sample Analysis Summary

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - Veritech

Client's Sample ID	AD05999-001		
Lab Sample ID	10443876001		
Filename	F180825A_15		
Injected By	BAL		
Total Amount Extracted	11.4 g	Matrix	Soil
% Moisture	4.2	Dilution	NA
Dry Weight Extracted	10.9 g	Collected	08/15/2018 14:00
ICAL ID	F180823	Received	08/17/2018 08:25
CCal Filename(s)	F180825A_02	Extracted	08/21/2018 14:30
Method Blank ID	BLANK-64231	Analyzed	08/25/2018 21:14

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**RL** ng/Kg	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	ND	-----	0.92	2,3,7,8-TCDF-13C	2.00	63
2,3,7,8-TCDD	ND	-----	0.92	2,3,7,8-TCDD-13C	2.00	66
				Recovery Standard 1,2,3,4-TCDD-13C	2.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	0.20	66

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
R = Recovery outside target range
E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Blank Analysis Results

Lab Sample Name	DFBLKBB		
Lab Sample ID	BLANK-64231	Matrix	Solid
Filename	U180824A_12	Dilution	NA
Total Amount Extracted	20.4 g	Extracted	08/21/2018 14:30
ICAL ID	U180818	Analyzed	08/24/2018 18:21
CCal Filename(s)	U180823B_12	Injected By	BAL

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**RL** ng/Kg	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	ND	-----	0.49	2,3,7,8-TCDF-13C	2.00	77
2,3,7,8-TCDD	ND	-----	0.49	2,3,7,8-TCDD-13C	2.00	69
				Recovery Standard 1,2,3,4-TCDD-13C	2.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	0.20	76

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-64232		
Filename	U180824A_07	Matrix	Solid
Total Amount Extracted	20.5 g	Dilution	NA
ICAL ID	U180818	Extracted	08/21/2018 14:30
CCal Filename	U180823B_12	Analyzed	08/24/2018 14:19
Method Blank ID	BLANK-64231	Injected By	BAL

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	12	8.0	14.7	118
2,3,7,8-TCDD	10	12	7.3	14.6	115
2,3,7,8-TCDD-37Cl4	10	8.4	3.7	15.8	84
2,3,7,8-TCDF-13C	100	84	26.0	126.0	84
2,3,7,8-TCDD-13C	100	75	25.0	141.0	75

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Spiked Sample Report

Client - Veritech

Client's Sample ID	AD05999-001-MS		
Lab Sample ID	10443876001-MS		
Filename	F180825A_16	Matrix	Soil
Total Amount Extracted	11.4 g	Dilution	NA
ICAL ID	F180823	Extracted	08/21/2018 14:30
CCal Filename(s)	F180825A_02	Analyzed	08/25/2018 21:59
Method Blank ID	BLANK-64231	Injected By	BAL

Native Isomers	**Qs** (ng)	**Qm** (ng)	% Rec.	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.20	0.22	109	2,3,7,8-TCDF-13C	2.00	81
2,3,7,8-TCDD	0.20	0.21	105	2,3,7,8-TCDD-13C	2.00	87
				1,2,3,4-TCDD-13C	2.00	NA
				2,3,7,8-TCDD-37Cl4	0.20	94

Qs = Quantity Spiked Qm = Quantity Measured Rec. = Recovery (Expressed as Percent)

Results reported on a total weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Spiked Sample Report

Client - Veritech

Client's Sample ID	AD05999-001-MSD		
Lab Sample ID	10443876001-MSD		
Filename	F180825A_17	Matrix	Soil
Total Amount Extracted	11.4 g	Dilution	NA
ICAL ID	F180823	Extracted	08/21/2018 14:30
CCal Filename(s)	F180825A_02	Analyzed	08/25/2018 22:44
Method Blank ID	BLANK-64231	Injected By	BAL

Native Isomers	**Qs** (ng)	**Qm** (ng)	% Rec.	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.20	0.21	107	2,3,7,8-TCDF-13C	2.00	78
2,3,7,8-TCDD	0.20	0.21	104	2,3,7,8-TCDD-13C	2.00	84
				1,2,3,4-TCDD-13C	2.00	NA
				2,3,7,8-TCDD-37Cl4	0.20	87

Qs = Quantity Spiked Qm = Quantity Measured Rec. = Recovery (Expressed as Percent)

Results reported on a total weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613 Spike Sample Results

Client - Veritech

Client Sample ID	AD05999-001			Dry Weights	
Lab Sample ID	10443876001	Sample Filename	F180825A_15	Sample Amount	10.9 g
MS ID	10443876001-MS	MS Filename	F180825A_16	MS Amount	10.9 g
MSD ID	10443876001-MSD	MSD Filename	F180825A_17	MSD Amount	10.9 g

Analyte	Sample Conc. ng/Kg	MS/MSD Qs (ng)	MS Qm (ng)	MSD Qm (ng)	RPD	Background Subtracted MS % Rec.	MSD % Rec.	RPD
2,3,7,8-TCDF	0.000	0.20	0.22	0.21	2.0	109	107	2.0
2,3,7,8-TCDD	0.000	0.20	0.21	0.21	1.7	105	104	1.7

Definitions

MS = Matrix Spike
MSD = Matrix Spike Duplicate
Qm = Quantity Measured
Qs = Quantity Spiked
% Rec. = Percent Recovery
RPD = Relative Percent Difference
NA = Not Applicable
NC = Not Calculated

CDD = Chlorinated dibenzo-p-dioxin
CDF = Chlorinated dibenzo-p-furan
T = Tetra
Pe = Penta
Hx = Hexa
Hp = Hepta
O = Octa

APPENDIX O

Drawings titled:

- **"Methane Monitoring System Ceiling Plan (As Built)" prepared by EAI dated February 11, 2019**
- **"Vapor Remediation Floor Plan (As Built Monitoring Pt Layout as of 8/1/18") prepared by French & Parrello with annotations by EAI dated August 1, 2018**

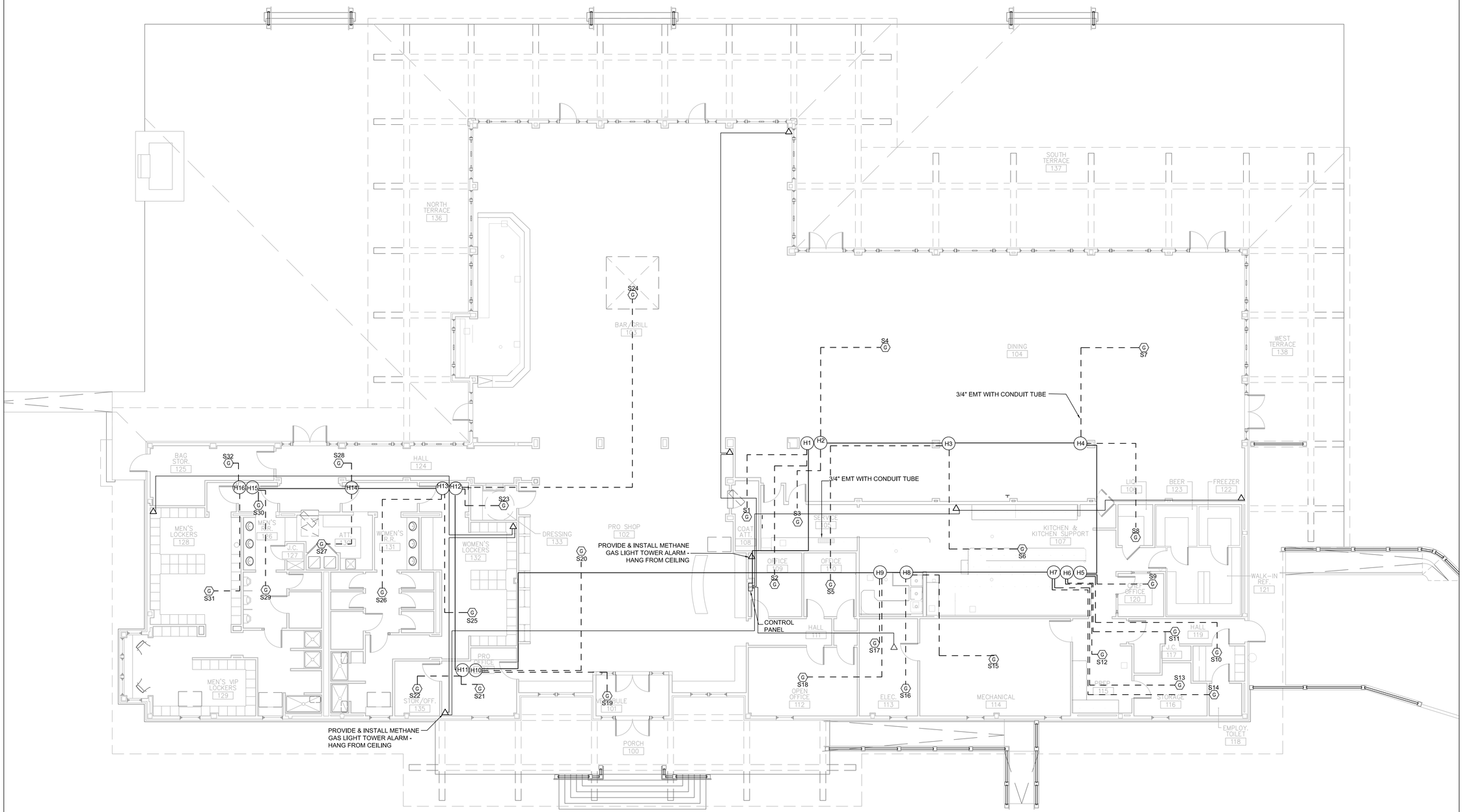

NOTES:

1) NO CHANGES TO THE METHANE GAS LIGHT TOWER ALARM.
2) ALL SENSOR HEADS (IE H#) SHIFTED IN FIELD EXCEPT H11.
3) ONLY SENSORS (IE S#) SHIFTED > 1FT FROM SD201 DATED 9/21/17: S16, S19, S28.

LEGEND

- GAS SENSOR
- METHANE GAS SENSOR CONTROL PANEL
- METHANE GAS LIGHT TOWER ALARM
- 3/4" EMT WITH CONDUIT TUBE BETWEEN HEADS AND PANEL
- 3/4" EMT WITH CONDUIT TUBE BETWEEN HEADS AND SENSORS
- METHANE SENSOR
- POWER SUPPLY/ TRANSMITTER WITH POWER

0 4' 8' 16'

AS-BUILT

Environmental Management Services
50 Prescott Street
Jersey City, NJ 07304
Phone: 201-395-0010
Fax: 201-395-0020

No.	Date	Revision
01	2/11/2019	AS-BUILT

Designer:	
Drawn by:	JM
Checked by:	ZT
Scale: 1/8" = 1'	Date: 2/11/2019

Project:
FERRY POINT CLUBHOUSE

Address:
300 HUTCHINSON RIVER PARKWAY
BRONX, NEW YORK 10465

Drawing Title:
METHANE MONITORING SYSTEM
CEILING PLAN

Drawing No.:
SD201

Sheets in Drawing Set:
01 of 01

AS BUILT MONITORING PT LAYOUT AS OF 8/1/18

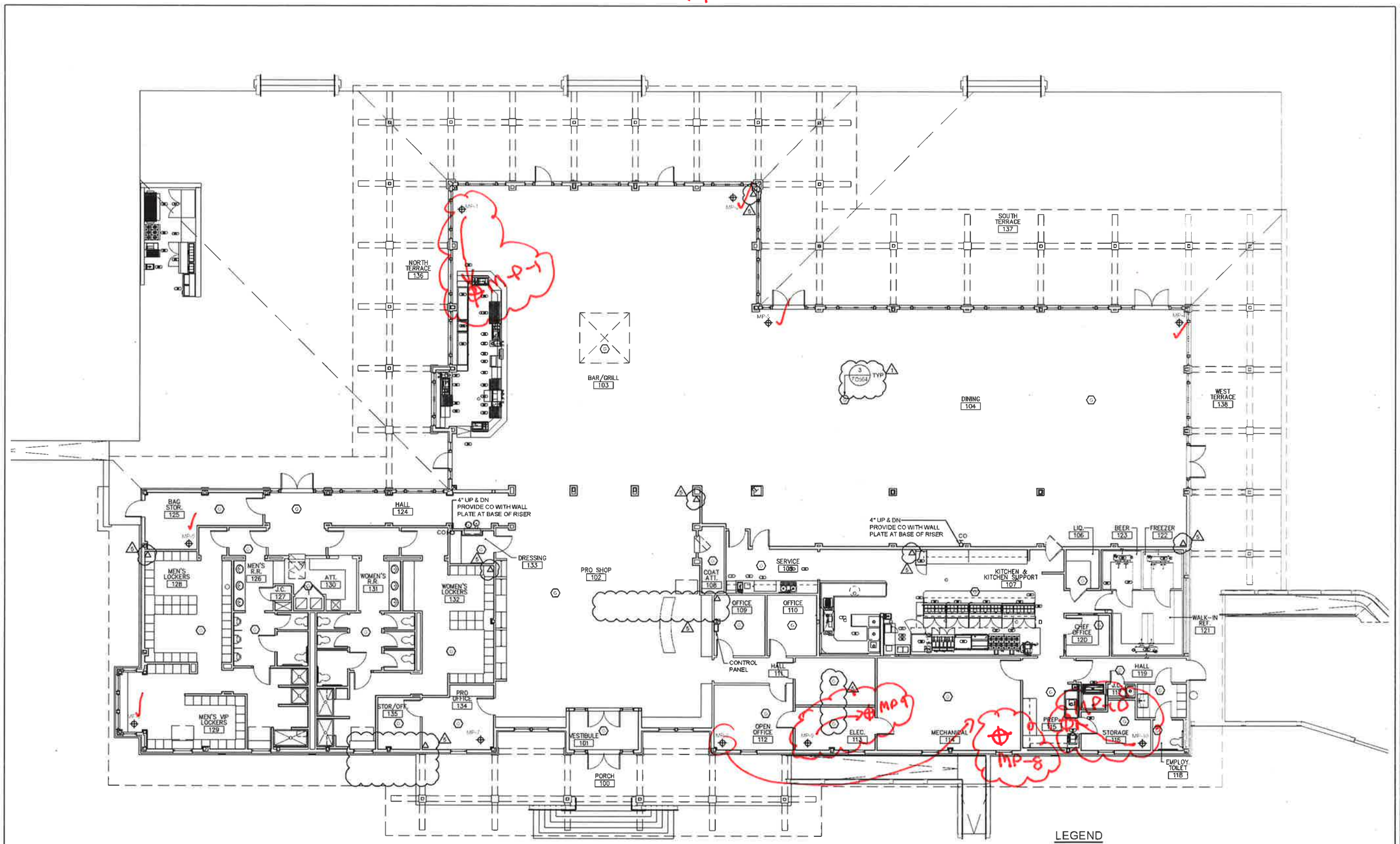

FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

LEGEND

SFV-1	SUCTION FAN VERTICAL 4" RISER AND IDENTIFICATION NUMBER EXTEND THRU ATTIC TO SUCTION FAN
MP-1	SUB-SLAB MONITORING POINT AND IDENTIFICATION NUMBER
	GAS SENSOR
	METHANE GAS SENSOR CONTROL PANEL
	METHANE GAS LIGHT TOWER ALARM - HANG FROM CEILING

FOR CONSTRUCTION

NEW YORK ALTERATION WARNING

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145 AND NEW YORK STATE EDUCATION LAW ARTICLE 147 FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM BEARING THE ENGINEER'S SEAL AND THE NOTIFICATION "ALTERED BY" FOLLOWED BY A SIGNATURE AND SPECIFIC DESCRIPTION OF THE ALTERATION.

FRENCH & PARRELLO ASSOCIATES

Corporate Office
1000 Pitts Dr., Suite 101
Wall, NJ 07719
732 942 9000

Regional Offices:
Mountainside, NJ
New York, NY

HART | HOWERTON
PLANNERS ARCHITECTS
LANDSCAPE ARCHITECTS

HART HOWERTON, PLANNING, ARCHITECTURE AND LANDSCAPE ARCHITECTURE PC
70 East 55th Street New York, NY 10016
Tel: 212 753 5633 Fax: 212 191 3766
E-mail: NY@hartrowerton.com

TRUMP
THE TRUMP ORGANIZATION

TRUMP GOLF LINKS
FERRY POINT PARK
Bronx, New York

Hart Howerton, Architects, Landscape Architects P.C. The designs and concepts shown on this sheet are the property of Hart Howerton and may not be used without the prior written consent of Hart Howerton.

SCALE
NOTE: IF THE DRAWING IS NOT 24"X36", IT HAS BEEN REVISED FROM ITS ORIGINAL SIZE. SCALE IS NO LONGER APPLICABLE.

DATE	ISSUE
04-16-15	100% DD
06-02-15	30% CD
07-01-15	70% CD
07-27-15	90% CD
06-15-17	FOR CONSTRUCTION

REVISIONS

NO	DATE	ISSUE
	02-17-17	REMOVE B/SMT
	03-30-17	DEC REVIEW RE-SIZE/ REMOVE B/SMT
3	04-07-17	COMMENTS
4	05-05-17	DEC COMMENTS
5	06-06-17	

DRAWING TITLE
VAPOR REMEDIATION FLOOR PLAN

PROJECT # 14-534
DRAWN BY
CHECKED BY FRM

DRAWING NO
EO-501.00

APPENDIX P

CETCO/Minerals Technologies Letter to EAI Inc. re: "Liquid Boot Spraying Temp" dated November 9, 2017

EAI Inc. letter to Maser Consulting P.A. re: "Vapor Remediation System Installation, Ferry Point Clubhouse, Ferry Point Park, Bronx, NY" dated October 18, 2019

Zarah Thanasides <zaraht@eaienviro.com>

Liquid Boot Spraying Temp

1 message

Matt Geary <matt.geary@mineralstech.com> Thu, Nov 9, 2017 at 9:31 AM
To: Zarah Thanasides <zaraht@eaienviro.com>

Hi Zarah,

As per our recent conversation, regular Liquid Boot specifications call for ambient temperature to be 45 F during spraying, however down to 35 F may be acceptable and that decision is left to experienced applicators and inspectors based on field observations. When proper curing is observed spraying can continue. Below 35F and down to 25F Liquid Boot Low Temperature formulation must be used or the area being sprayed has to be heated.

Thanks,

Matt Geary

Technical Sales Manager, Environmental Products

CETCO / A Minerals Technologies Company

Direct: 518-430-8790

matt.geary@mineralstech.com | www.cetco.com

OUR STANDARDS. YOUR PEACE OF MIND.

EAI INC
ENVIRONMENTAL MANAGEMENT SERVICES
SPECIALTY CONTRACTING

50 Prescott Street
Jersey City, NJ 07304
Office: (201) 395-0010
Fax: (201) 395-0020
www.eaienviro.com

October 18, 2019

David J. Keil, PG
Maser Consulting P.A.
50 Chestnut Ridge Road, Suite 101
Montvale, NJ 07645
Cell: (201) 937-3515
Tel: (845) 352-0411 x3905
Email: dkeil@maserconsulting.com

Re: Vapor Remediation System Installation
Ferry Point Clubhouse
Ferry Point Park
Bronx, NY

Dear Mr. Keil,

This letter serves to inform you that the Vapor Remediation System at the above referenced site has been completely installed. Installation was performed in accordance with manufacturer specifications, contract documents and approved submittals.

System components included Fluid-Applied Gas Vapor Barrier, Sub-Slab Depressurization System, Sub-Slab Depressurization System Accessories and Methane Gas Detection and Alarm.

If you have any questions, please contact me at (201) 395-0010 x229. Thank you.

Sincerely,

Robert Carvalho, PG
President/CEO

APPENDIX Q

Drawings titled "Ferry Point Clubhouse, 500 Hutchinson Parkway, Bronx, NY" showing new gas line prepared by Victor Famulari Architect P.C. dated July 25, 2018

CONTOUR & INTERIM SURFACE BOUDARY LEGEND:

- FINAL CONTOUR (SEPTEMBER 2014)
- FINAL SPOT ELEVATION (SEPTEMBER 2014)
- FINAL CONTOUR (UNDER WATER)
- INTERIM BOUNDARY SURFACE LIMITS (SHOWN ON SHEET 1 ONLY)
- PROPERTY LINE

GOLF COURSE LEGEND:

NOTE: ALL AREAS NOT DESIGNATED "FAIRWAY, GREEN, TEE, IRRIGATED ROUGH, WETLANDS SEEDED OR PAVED" ARE DEEMED "NATIVE AREAS", (TOTAL NATIVE AREA 105.3 Ac.)

552/184 Yds.

- 17 — HOLE NUMBER AND YARDAGE
- TREES
- DENSE VEGETATION
- TREE LINE / BRUSH
- TEES
- GREENS
- GEOTEC CORE LIMITS
- LIMITS OF FAIRWAYS (TOTAL 4.5 Ac)
- LIMITS OF IRRIGATED ROUGH (TOTAL 27.3 Ac.)
- LIMITS OF WETLAND SEEDING (TOTAL 96,654 SF)
- BUNKERS
- STONE RIP-RAP
- WATER
- ASPHALT CART PATH
- ASPHALT CART PATH W/ ASPHALT CURB
- DIRT TRAIL
- FENCE
- RETAINING WALL
- TIMBER GUIDERAIL
- CONCRETE SIDEWALK, CONCRETE CURB & DROP CURB

GAS, ELECTRIC LEGEND:

- WCA LIGHT (IN CLUB PARKING LOT)
- BOLLARD LIGHT (AT DRIVING RANGE)
- ELECTRIC TRANSFORMER
- ELECTRIC PULL-BOX
- ELECTRIC M-11 MANHOLE
- TELEPHONE PULL-BOX
- GAS VALVE
- G — G — GAS MAIN
- T — T — TELEPHONE CONDUIT
- E — E — ELECTRIC POWER CONDUIT

DRAINAGE LEGEND:

- DRAIN MANHOLE (12"-18" SOLID COVER)
- DRAIN BASIN (12"-18" GRATE)
- POND FILL STRUCTURE (66"x 48" GRATE)
- IN-LINE DRAIN (12"x 12" GRATE)
- WING WALL
- PRECAST MANHOLE (24" SOLID CASTING)
- DEP BOX CULVERT ACCESS MH (24" W/DEEP SOLID CASTING)
- OUTLET STRUCTURE (43"x 47" GRATE)
- DRAIN INLETS AND CATCH BASINS (30"x 48" GRATE)
- PPE — HIGH DENSITY POLIETHYLENE DRAIN PIPE AND FLOW DIRECTION
- PM — HDPE FORCE MAIN
- DIP — DUCTILE IRON PIPE
- PERFORATED PVC — 4" DRAIN LINE

WATER SERVICE LEGEND:

- HYDRANT
- WATER VALVE
- 12" (PW) — 12" POTTABLE WATER MAIN
- 10" (PW) — 10" POTTABLE WATER MAIN
- 8" (PW) — 8" POTTABLE WATER MAIN
- 6" (PW) — 6" POTTABLE WATER MAIN

IRRIGATION LEGEND:

- DRAIN VALVE
- AIR RELEASE VALVE
- SATELITE
- ISO VALVE
- COMO CABLE SPLC
- PRESSURE REDUCING VALVE
- POWER CABLE SPLICE BOX
- 12" IRRIGATION WATER MAIN
- 10" IRRIGATION WATER MAIN
- 8" IRRIGATION WATER MAIN
- 6" IRRIGATION WATER MAIN
- 4" IRRIGATION WATER MAIN

MONITORING LEGEND:

- LFG — LANDFILL GAS (LFG) COLLECTION PIPE CONSTRUCTED IN ACCORDANCE TO DMG. H2.13
- EXISTING LFG PASSIVE VENT WELL
- GVM — GAS VENT APPURTENANCE BOX
- PZ-16 — PIEZOMETER
- SETTLEMENT PLATE
- GW — GROUND WATER MONITORING WELL
- MW-19 Repl — NEW LFG PASSIVE VENT WELL
- VENT TRENCH CONSTRUCTED IN ACCORDANCE WITH DMG. H2.3-H2.8

CONSTRUCTION DEVIATIONS REFERENCE TO THE LIST OF SUPPLEMENTAL CONTRACT DRAWINGS FOR CONSTRUCTION OF A TOURMANENT QUALITY GOLF COURSE PREPARED BY SANFORD GOLF DESIGN

Construction Deviations
April 10, 2015
Revised July 13, 2015 Notes

FERRY POINT GOLF COURSE

CONSTRUCTED FOR:

CITY OF NEW YORK PARKS & RECREATION

PROJECT TITLE:

THE CONSTRUCTION OF A TOURNAMENT QUALITY GOLF COURSE BOUNDED BY THE EAST RIVER, BALCOLM AVENUE, MILES AVENUE AND THE WHITESTONE BRIDGE APPROACH, IN FERRY POINT PARK, BOROUGH OF THE BRONX

CONTRACT: X126-109M

Sheet 1 of 12

REVISIONS

No	Date	Description

ISSUED

CLIENT

THE TRUMP ORGANIZATION

FERRY POINT CLUBHOUSE

500 HUTCHINSON PARKWAY
BRONX, NY

ARCHITECT

VICTOR FAMULARI ARCHITECT, P.C.
1208 Northern Blvd | Manhasset, NY |11030
Tel: 516-304-5913 Fax: 516-304-5915
725 Fifth Avenue | New York, NY 10022
Tel: 212-715-7284 Fax: 212-888-0570
vfamulari@vfarch.com

SHEET TITLE

SEAL & SIGNATURE:

DOB STAMP

PARKS DEPARTMENT FILING #:

Date:	JULY 25, 2018	PROJECT No.:	5-15
Scale:	AS NOTED	SHEET No.	
DRAWING BY:	C.R.		
Chkd BY:	V.F.	PAGE No.	

BSCAN:

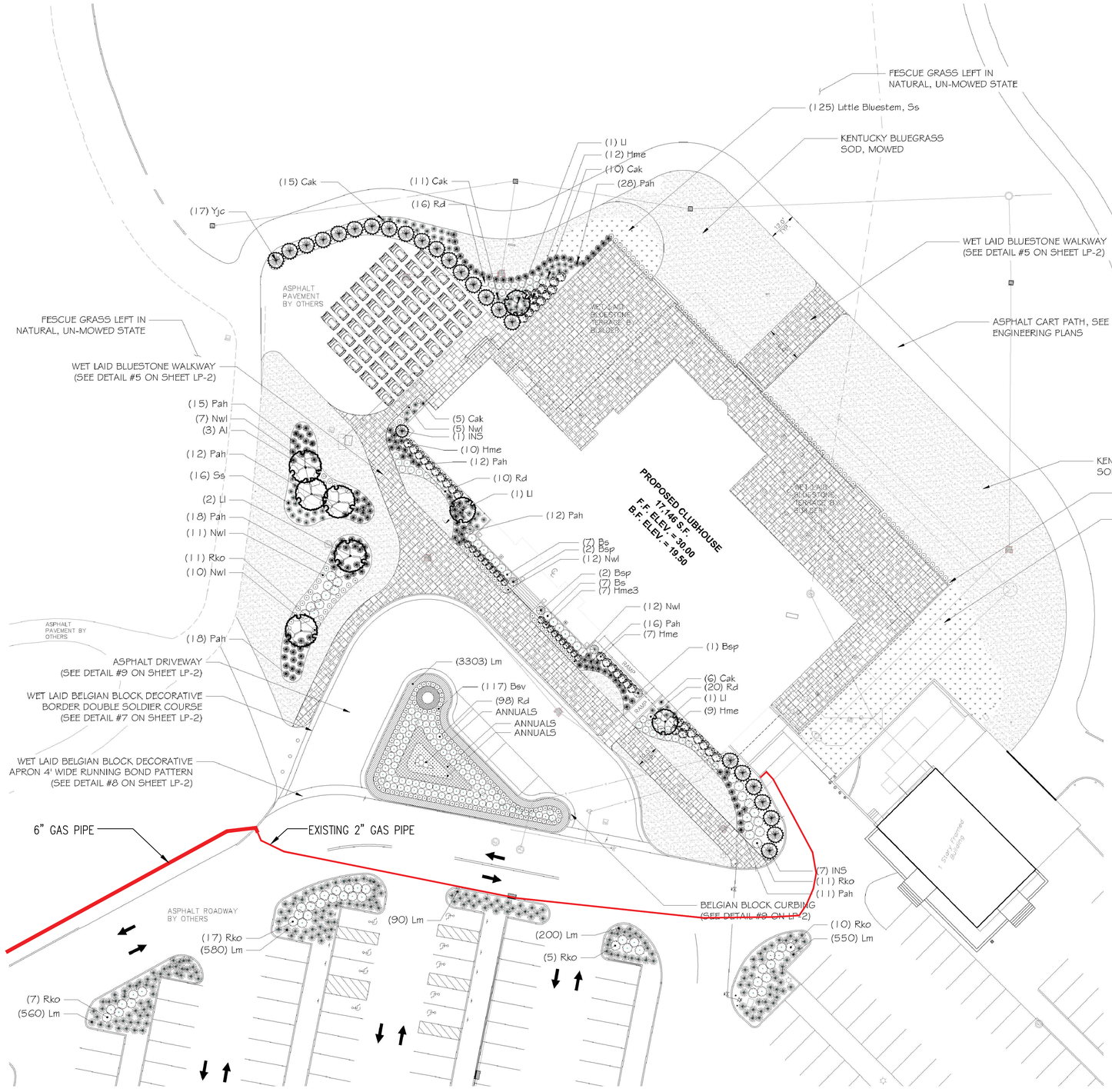

PLANT LIST

SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	SPACING
ORNAMENTAL TREES						
Ll	5	Lagerstromia indica	Crapemyrtle	8-10' ht	B&B	As shown
Al	3	Amelanchier laevis	Serviceberry	8-10' ht	B&B	10' o.c.
EVERGREEN TREES						
Yjc	17	Cryptomeria japonica 'Yoshino'	Yoshino Japanese Cedar	10-12' ht	B&B	7-8' oc
IN	9	Ilex x 'Nellie Stevens'	Nellie Stevens Holly	6-7' ht	B&B	7-8' oc
SHRUBS						
Bs	14	Buxus sempervirens	American Boxwood	36-42"	B&B	As shown
Bsp	5	Buxus sempervirens 'Green Pillar'	Green Pillar Boxwood	5'	B&B	As shown
Bsv	177	Buxus sempervirens 'suffruticosa'	Dwarf English Boxwood	3 Gal.	Cont	2-3' OC
Hme	30	Hydrangea macro. 'Endless Summer'	Endless Summer Hydrangea	5 gal	Cont	4' oc
Hme3	17	Hydrangea macro. 'Endless Summer'	Endless Summer Hydrangea	3 gal	Cont	4' oc
Pm	6	Prunus maritima	Beach Plum	24-30" ht	Cont	5' oc
Rd	144	Rosa 'Drift' (peach, coral)	Drift® Roses	2 gal	Cont	3-4' oc
Rko	22	Rosa 'Knockout'	Knockout Rose	5 gal	Cont	4' oc
ORNAMENTAL GRASS						
Cak	36	Calamagrostis acutif. 'Karl Foerster'	Karl Foerster Reed Grass	3 gal	Cont	2-3' oc
Lm	1980	Leymus mollis	American Dune Grass	1 gal	Cont	18-24" oc
Pah	142	Pennisetum alop. 'Hamelin'	Hamelin Fountain Grass	2 gal	Cont	3' oc
Ss	821	Schizachyrium scopanum	Little Bluestem	1 gal	Cont	18-24" oc
PERENNIALS						
Lr	3303	Liriope muscari 'Big Blue'	Lily Turf Grass	Plugs	Plugs	6" oc
Nwl	57	Nepeta 'Walkers Low'	Walker's Low Catmint	1 gal	Cont	2' oc

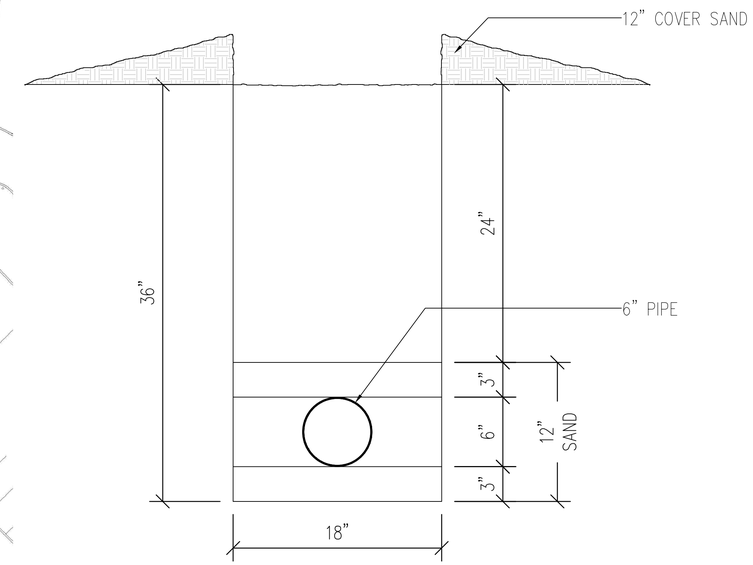

1 NEW 6" GAS SERVICE TRENCHING DETAIL
SCALE: NTS

REVISIONS

No	Date	Description

ISSUED

CLIENT

THE TRUMP ORGANIZATION

FERRY POINT CLUBHOUSE

500 HUTCHINSON PARKWAY
BRONX, NY

ARCHITECT

VICTOR FAMULARI ARCHITECT, P.C.
1208 Northern Blvd | Manhasset, NY 11030
Tel: 516-304-5913 Fax: 516-304-5915
725 Fifth Avenue | New York, NY 10022
Tel: 212-715-7284 Fax: 212-888-0570
vfamulari@vfarch.com

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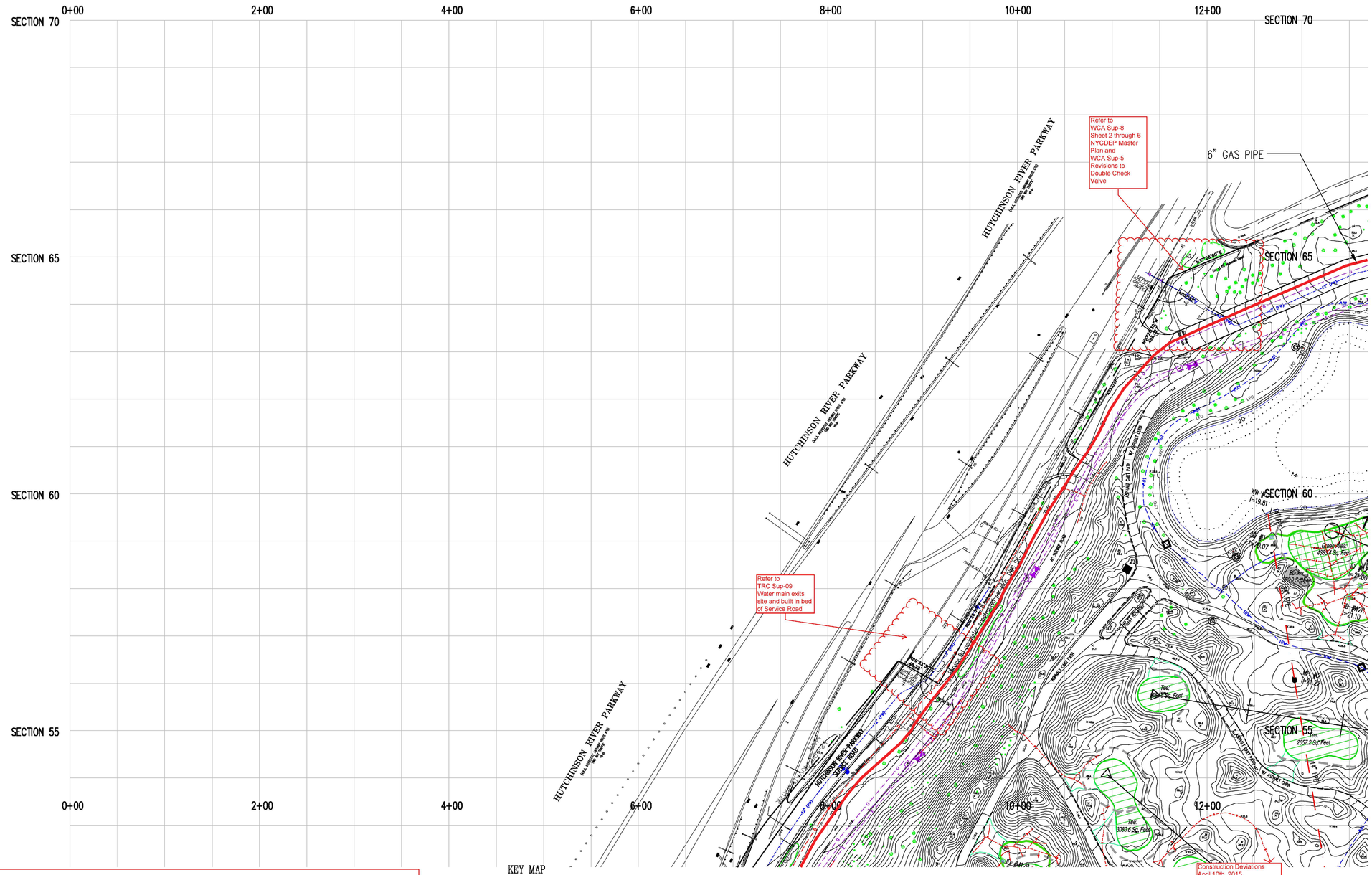

KEY MAP

2	3	4
5	6	7
8	9	10
11	12	

BRONX COORD. SYSTEM

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

Construction Deviations
April 10th, 2015
Revised July 13, 2015 Notes

FERRY POINT GOLF COURSE

CONSTRUCTED FOR:

CITY OF NEW YORK PARKS & RECREATION

PROJECT TITLE:

THE CONSTRUCTION OF A TOURNAMENT QUALITY GOLF COURSE BOUNDED BY THE EAST RIVER, BALCOLM AVENUE, MILES AVENUE AND THE WHITESTONE BRIDGE APPROACH, IN FERRY POINT PARK, BOROUGH OF THE BRONX

CONTRACT: X126-109M

Sheet 2 of 12

REVISIONS

No	Date	Description

ISSUED

CLIENT

THE TRUMP ORGANIZATION

FERRY POINT
CLUBHOUSE

500 HUTCHINSON PARKWAY
BRONX, NY

ARCHITECT

VICTOR FAMULARI ARCHITECT, P.C.
1208 Northern Blvd | Manhasset, NY 11030
Tel: 516-304-5913 Fax: 516-304-5915
725 Fifth Avenue | New York, NY 10022
Tel: 212-715-7284 Fax: 212-888-0570
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Chkd BY:	V.F.	PAGE No.	

BSCAN:

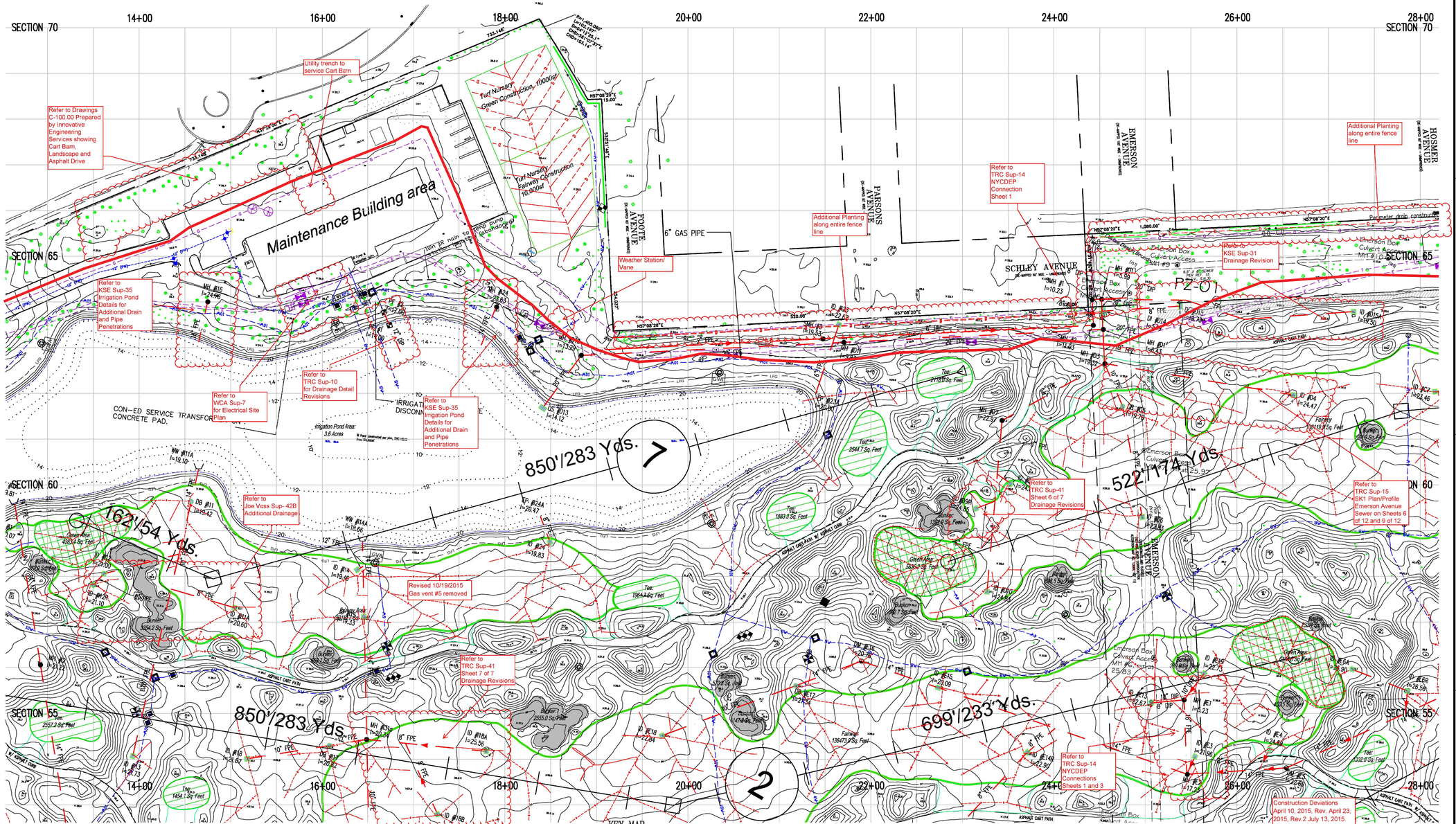

KEY MAP

2	3	4
5	6	7
8	9	10
11	12	

BRONX COORD. SYSTEM

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

FERRY POINT GOLF COURSE

CONSTRUCTED FOR:

CITY OF NEW YORK PARKS & RECREATION

PROJECT TITLE:

THE CONSTRUCTION OF A TOURNAMENT QUALITY GOLF COURSE BOUNDED BY THE EAST RIVER, BALCOLM AVENUE, MILES AVENUE AND THE WHITESTONE BRIDGE APPROACH, IN FERRY POINT PARK, BOROUGH OF THE BRONX

CONTRACT: X126-109M

Sheet 3 of 12

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No	Date	Description

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FERRY POINT CLUBHOUSE

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SHEET TITLE

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Date:	JULY 25, 2018	PROJECT No.:	5-15
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DRAWING BY:	C.R.		
Chkd BY:	V.F.	PAGE No.	

BSCAN:

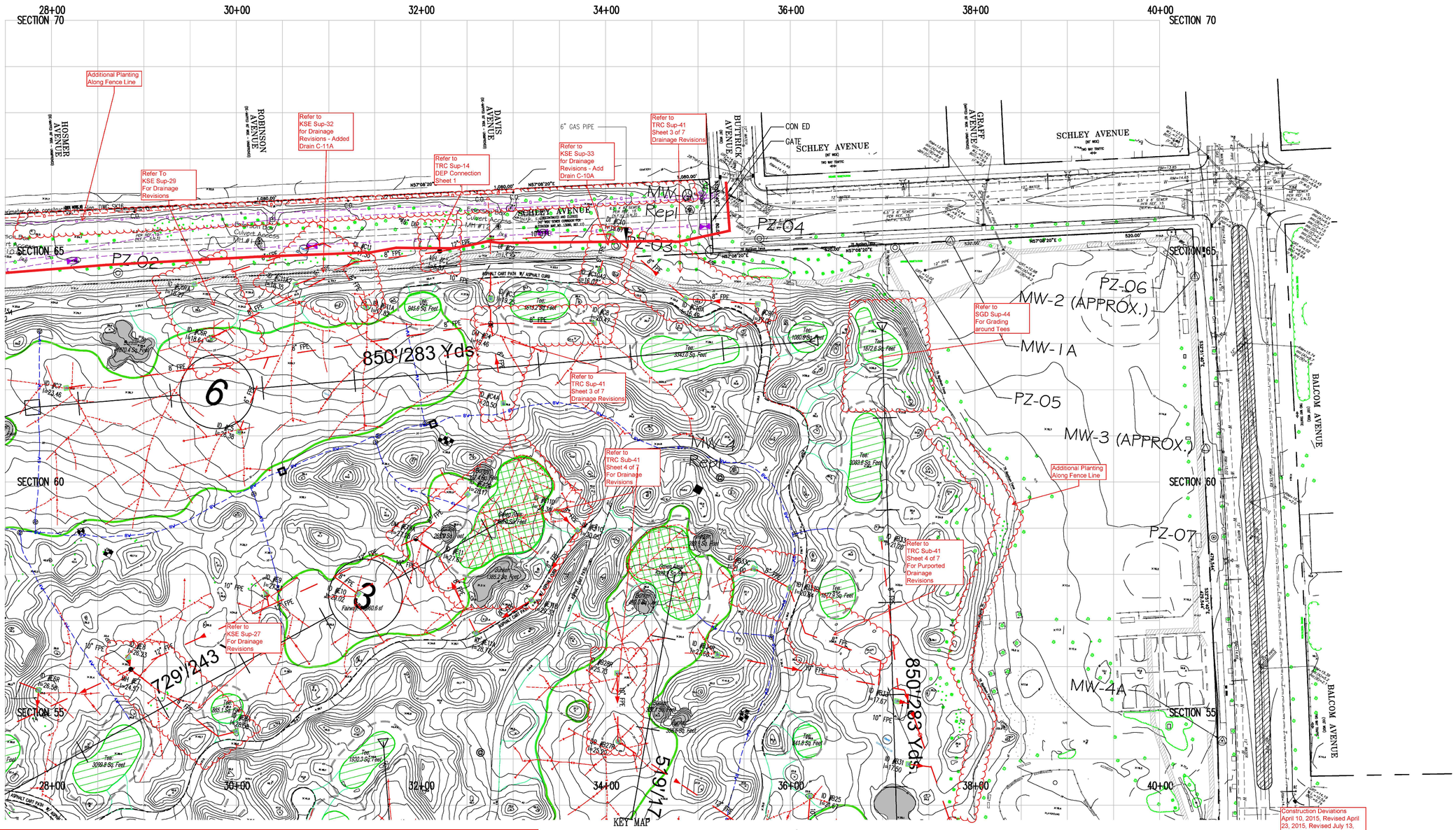

2	3	4
5	6	7
8	9	10
11	12	

KEY MAP

BRONX COORD. SYSTEM

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

Construction Deviations April 10, 2015, Revised April 23, 2015, Revised July 13, 2015 Notes

FERRY POINT GOLF COURSE

CONSTRUCTED FOR:

CITY OF NEW YORK PARKS & RECREATION

PROJECT TITLE:

THE CONSTRUCTION OF A TOURNAMENT QUALITY GOLF COURSE BOUNDED BY THE EAST RIVER, BALCOLM AVENUE, MILES AVENUE AND THE WHITESTONE BRIDGE APPROACH, IN FERRY POINT PARK, BOROUGH OF THE BRONX

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Sheet 4 of 12

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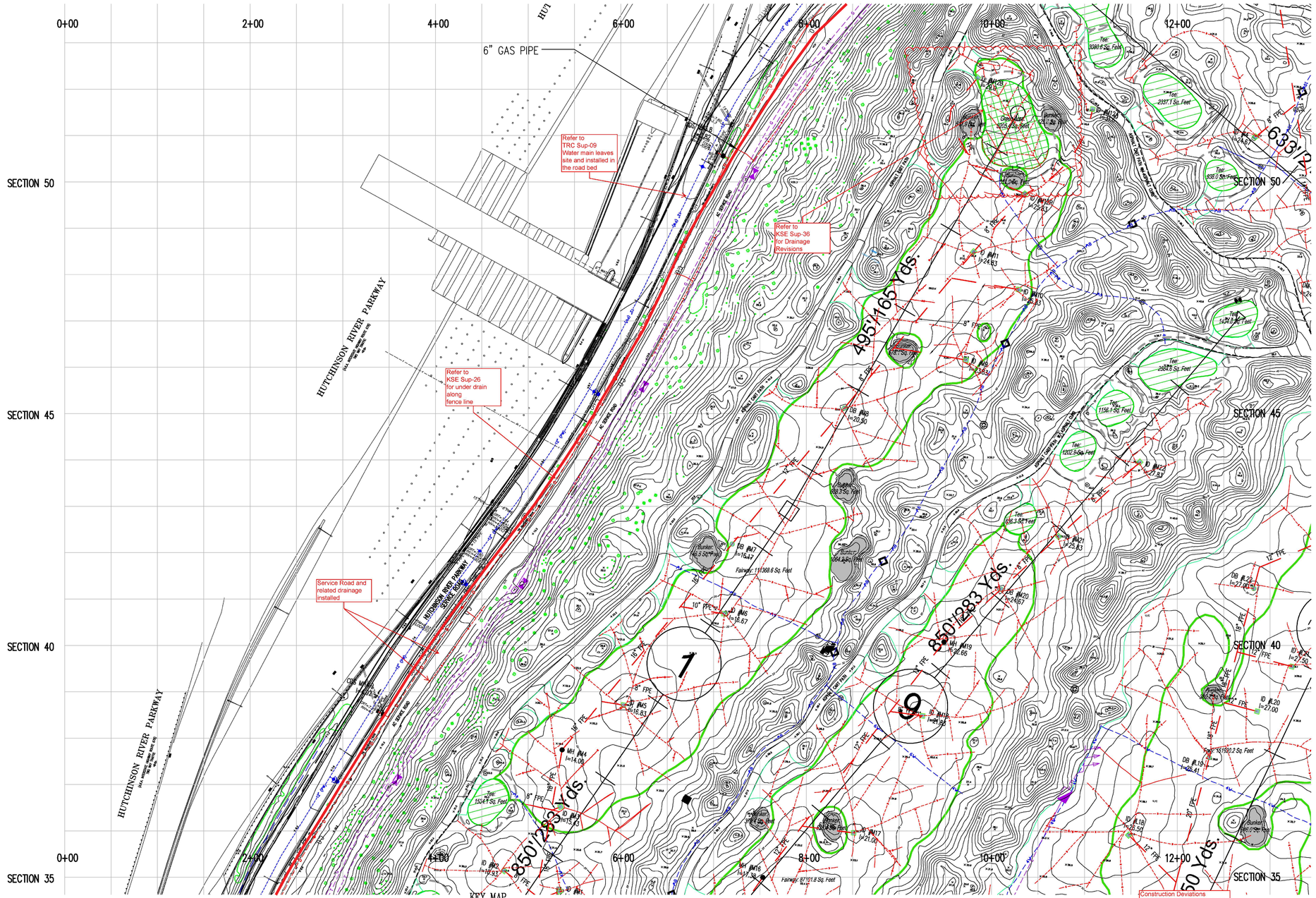

Construction Deviations
April 10, 2015, Revised July 13, 2015 Notes

KEY MAP

2	3	4
5	6	7
8	9	10
11	12	

BRONX COORD. SYSTEM

GRAPHIC SCALE

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(IN FEET)
1 inch = 40 ft.

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Sheet 5 of 12

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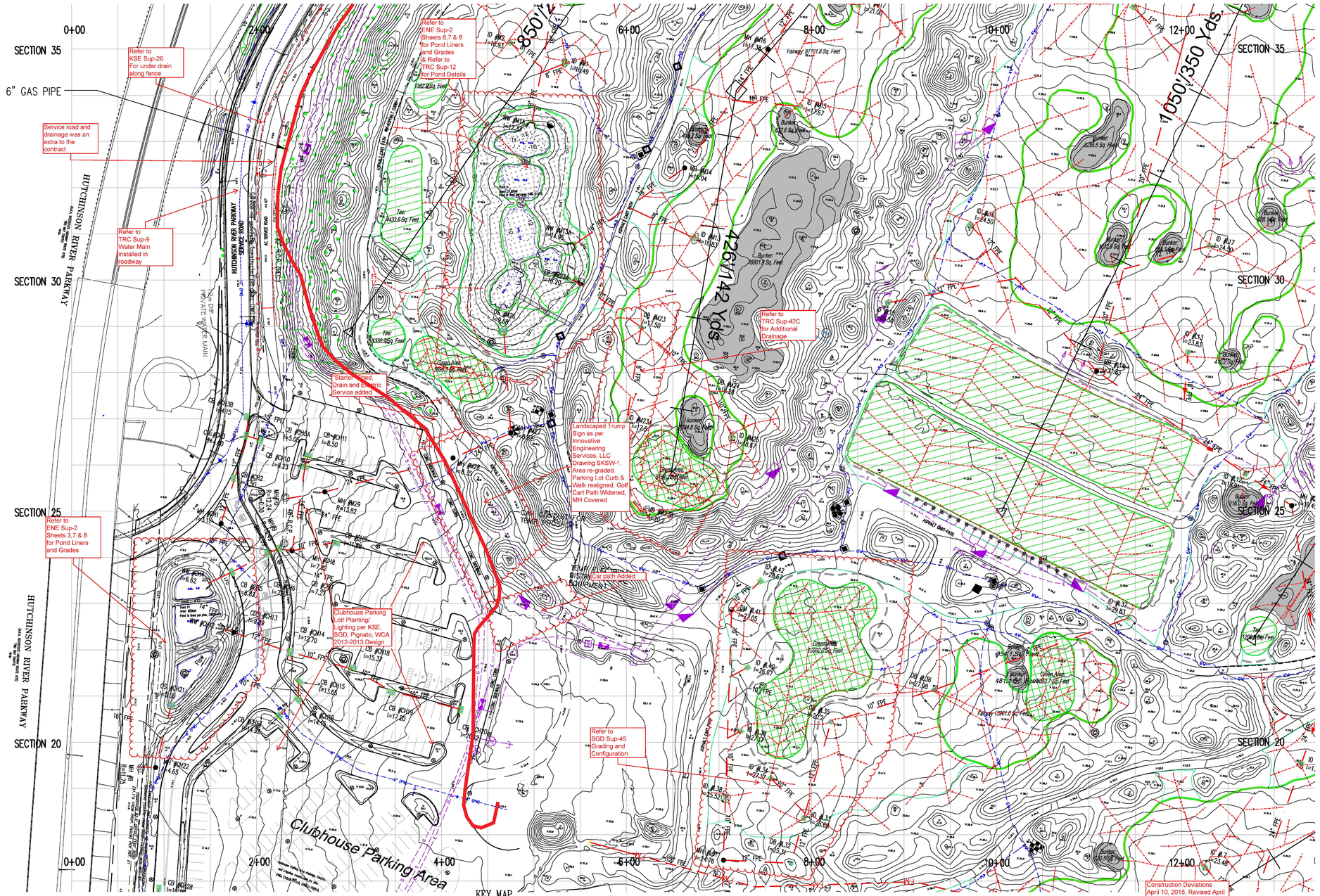

Construction Deviations April 10, 2015, Revised April 23, 2015, Revised July 13, 2015 Notes

KEY MAP

2	3	4
5	6	7
8	9	10
11	12	

BRONX COORD. SYSTEM

GRAPHIC SCALE

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(IN FEET)
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BSCAN:

APPENDIX R

DORs for Installation of New 6-Inch Gas Line to Clubhouse

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DAILY FIELD OBSERVATION REPORT

M T W TH F SA SU **Weather:** Weather **Wind:** 0-5 mph **Humidity** (High Med Low)
Date: 8-24-2018 **Time:** 7:30 **Temp:** 90+

Name of Project: Trump Links Golf Course - Ferry Point **Municipality:** Bronx, NY **Job No:** 17002426C

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Proposed Gas Main installation & excavation

Site Work Progress: Arrived on-site at 7:30am

8:00am - Was informed by that excavation cannot commence until umbrella insurance issue is resolved.

9:00 am laying down plywood and began digging up the telecom line.

10:30am - met with Joe Rodinger. He explained that the demarcation barrier is a caution that says the msw is approximately 1-4 feet below that.

Standard SOP (according to Joe) is that we can dig to depth, replace demarcation barrier with a new one and then sand, pipe, etc.

Demarcation barrier varies from 10"-24". Barrier closest to road has no shaping material on top.

13:15 - Called and spoke to Anthony of Bellisimo, was told I was not needed anymore today.

Remarks: N/A

Site Photographs: Yes **Additional Action Required by Project Mgr. or Eng.: (YES NO)**

Observed By: Vince Carbone **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: sunny** **Wind: breezy** **Humidity**

Date: August 28, 2018 **Time: 0900 - 1500** High Med Low

Temp: 95 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation along the northern side of the golf course just south of Schley Drive.

Site Work Progress: Over 500 linear feet of gas line trench was dug today. Cover material and shaping material was segregated on either side of the trench on plywood sheets for re-use after the gas main is installed.

No readings above background concentration on 4-gas meter or PID.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Gas Main Trench along the northern side of the Golf Course south of Schley Drive. Cover and shaping material are segregated on either side of the trench.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny** **Wind: breezy** **Humidity**

Date: August 29, 2018 **Time: 1000 - 1500** High Med Low

Temp: 95 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation along the northern side of the golf course just south of Schley Drive. Gas main pipeline trench was extended southward to the golf cart path.

Site Work Progress: Gas Line trench was extended to its first intersectin with the golf cart path along fairway…Cover material and shaping material was segregated on either side of the trench on plywood sheets for re-use after the gas main is installed.

No air monitoring measurements exceeded background concentrations.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Looking northward, Gas Main Trench along the northern side of the Golf Course south of Schley Drive. Cover and shaping material are segregated on either side of the trench.

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Photo 2: Looking southward, the gas line pipeline route-heading south toward the golf cart path- prior to excavation.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W (TH) F SA SU **Weather: Partly sunny** **Humidity**

Date: August 30, 2018 **Time: 6:50am** **Temp: 91** °F (High) Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction

Active Site Work Areas: Construction site for new six-inch gas line

Activities included: Trenching

Site Work Progress: From the endpoint of trenching on 08/29/2018, ~ 100 feet of trenching to a depth of ~ 2 feet was completed along the north side of the 6th fairway cartpath. Sawcutting the asphalt cartpath so that the gas lines crosses over to the inside of the cartpath was postponed to next week. ~ 75 feet of trenching to a depth of ~ 2 feet was then completed on the other side of the cartpath toward the maintenance area (parallel to the 7th tee boxes). Two obstructions (large rock and large piece of formed metal) remain in the 6th fairway trench and are planned prior to laying the gas line.

At regular intervals, the trench bottoms were checked with a 4-gas QRAE Meter. The meter alarm is triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen or methane (as Lower Explosive Limit) are above OSHA exposure limits; the alarm was not triggered for these four gases during today's activities.

Remarks: Site activities concluded at 1430.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (**NO**)

Observed By: Don Bowman Donald Bowman

Reviewed By:
Date:

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View of trenching completed along 6th fairway cartpath on 08/30/2018

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View of trenching completed along the cartpath toward the maintenance area (parallel to the 7th tee boxes) on 08/30/2018

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: cloudy** **Humidity**

Date: August 31, 2018 Time: 0710 **Temp: 75 °F** (High) Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: **Bellisimo Masonry & Construction**

Active Site Work Areas: Construction site for new six-inch gas line

Activities included: Trenching

Site Work Progress: From the endpoint of trenching on 08/30/2018 (i.e. near the landfill gas well adjacent to the cartpath leading to the maintenance area), ~ 500 feet of trenching to depths ranging from 2-3 feet (~20-24 inches wide) was completed to near the fire hydrant at the end of the cartpath by the greens nursery and maintenance garage. Irrigation lines were uncovered during excavation at two areas, and a few additional obstructions were discovered that are planned for removal prior to laying the gas line.

At 1300 a ConEd representative (Kevin) arrived on site, and observed the length of the trenching to date (beginning at Schley Avenue), escorted by a Trump Organization representative. The ConEd representative stated that laying the gas piping will begin on Tuesday 09/04/2018 or Wednesday 09/05/2018; 40-foot pipe sections will be fused then laid in the trench with tracer wire and marker balls, then tested (long sections) with 150 psi of air pressure and (upon satisfactory testing results) the trench can be backfilled.

At regular intervals, the trench bottoms were checked with a 4-gas QRAE Meter. The meter alarm is triggered if concentrations of carbon monoxide, hydrogen sulfide, oxygen and methane (as Lower Explosive Limit) are above OSHA exposure limits; the alarm was not triggered for these four gases during today's activities.

Remarks: Site activities were nearing conclusion at 1515.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (**NO**)

Observed By: Don Bowman Donald Bowman

Reviewed By:
Date:

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View of trenching completed along the cartpath toward the maintenance area (parallel to the 7th tee boxes) on 08/31/2018

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View of trenching completed along the cartpath approaching the maintenance area on 08/31/2018

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: clear & sunny** **Wind: light & variable** **Humidity**

Date: September 4, 2018 **Time: 1000 - 1400** High Med Low

Temp: 90 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation pipeline: saw cutting in the maintenance area in preparation for trenching.

Also area between Buttrick & Schley is being prepared for pipeline installation by Con Edison.

No PID or four gas meter measurements above background levels.

Site Work Progress: Saw cutting from the cart path into the maintenance area was initiated today (contractor was to have completed this yesterday however they experienced problems with the saw cutting machine).

Con Edison is transporting and staging plastic 6-inch pipe at the trench on the northside of the golf course in preparation for installation.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Looking southward, Gas Main Trench along the northern side of the Golf Course south along golf cart path.

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Photo 2: saw cutting asphalt in the maintenance area.

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DAILY FIELD OBSERVATION REPORT

M T W TH F SA SU **Weather:** Weather **Wind:** 0-5 mph **Humidity** (High Med Low)
Date: 9-5-2018 **Time:** 7:30 **Temp:** 90+

Name of Project: Trump Links Golf Course - Ferry Point **Municipality:** Bronx, NY **Job No:** 17002426C

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Proposed Gas Main installation & excavation

Site Work Progress: Arrived on-site at 7:30am

Upon arrival, gas meter located in Chris' office was not working. Called Pine Environmental and had them deliver a new one.

7:45am - Began preliminary observations, asphalt in front on maintenance garage has been saw cut, had to offset in fron of bay door No. due to natural gas cap.

8:30am - ConEd arrived on-site.

9:15am - Orange Demarcation barrier is being laid down in trench (See attached map for location) (BLUE AREA)

9:20am - 3" of sand is being laid on top of orange demarcation barrier (Checking with measured broom stick handle)

10:00am - Anthony (Bellisimo) began removal asphalt layer from north and east side of the maintenance garage.
10:10am - Measured trench in asphalt - ranged from 36"-42"

Remarks: N/A

~~11:00am - Spoke to ConEd workers, they explained the bonding process. 20 min of intense heat (400-450 degrees)~~ to bond two sections together and 20 minutes for the pieces to cool down before they can be placed in trench.

11:15am - Anthony (Bellisimo) began trenching across golf cart path (See attached map, YELLOW AREA). Steel plate placed over trench.

11:40am - Pine Environmental delivered new gas meter

12:00pm - ConEd front loader broke down, need to replace with new one

13:30pm - New front loader arrives and bonding continues
14:30 - Anthony (Bellisimo) was trenching along east side of maintenance garage. Exposed current 4"gas line (See attached map, GREEN AREA)

15:40pm - Orange demarcation barrier has been laid with 3" of sand on top from Buttrick Avenue to where the trench first crosses the golf cart path (See attached map)

15:45pm - 8 sections of new 6" gas pipe has been bonded and placed in trench.

16:30pm - Trenching has ended for the day

Site Photographs: Yes **Additional Action Required by Project Mgr. or Eng.: (YES NO)**

Observed By: Vince Carbone **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny/Slightly Cloud** **Wind: light to mild** **Humidity**

Date: September 6, 2018 **Time: 0900 - 1630** High Med Low

Temp: 90 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation pipeline: saw cutting, trenching, and backfilling in the maintenance area

Piping welded from Buttrick & Schley Ave to southern golf trail for pipeline installation by Con Edison.

No PID or four gas meter measurements above background levels.

Site Work Progress: Northeastern and northwestern sides of the maintenance building trench backfilled with a minimum of 3" of clean fill. Thickness of the fill measured every 10' throughout an estimated ~170 LF trench. Trench extended on the northwestern side extended ~10 – 20 LF by cutting asphalt and excavating soil material nearby.

Con Edison welding and installing plastic 6-inch pipe at the trench on the northside of the golf course . Note: Areas with <18" of soil above the pipe require steel section above the pipe.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Photo 1: Trench Along Northeastern Maintenance Building

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Photo 2: Trench Along Northeastern Maintenance Building Backfilled

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Photo 3: Northside Trench, Con-Ed Welding & Installation Staging Area

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: cloudy** **Wind: breezy** **Humidity**

Date: September 7, 2018 **Time: 1100 - 1630** High Med Low

Temp: 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation along the northern and western sides of the maintenance facility. Testing of fitting and connections by RECONN. Gas main pipeline trench was saw cut and extended southward toward the golf cart path near the 8th tee box.

Site Work Progress: Gas Line trench was extended to its first intersectin with the golf cart path along fairway…Cover material and shaping material was segregated on either side of the trench on plywood sheets for re-use after the gas main is installed.

No air monitoring measurements exceeded background concentrations.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo 1: Con Ed laborers preparing to install gas line along the northern side of the maintenance facility.

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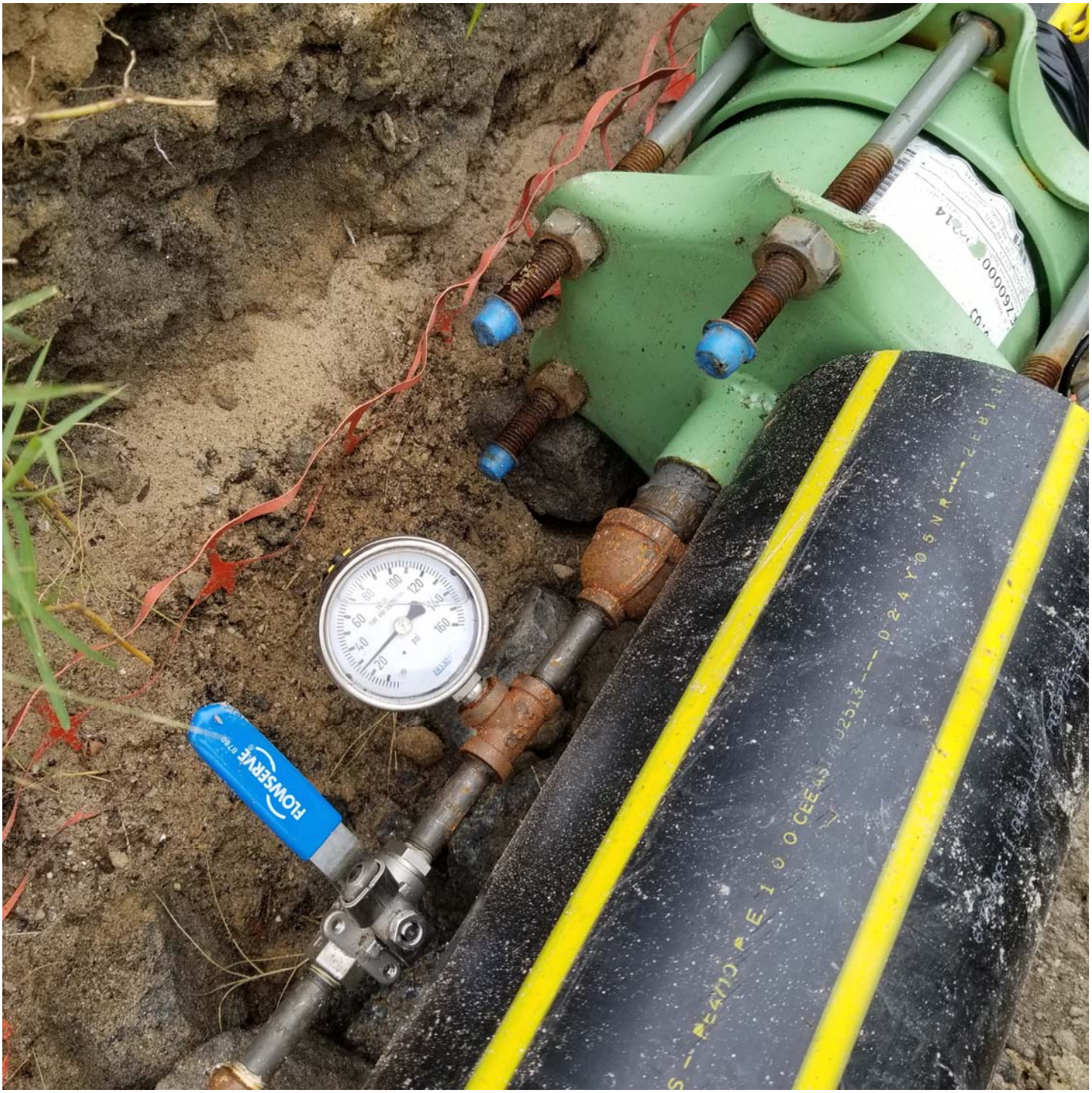

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Photo 2: Pressure tesing of the newly installed 6-inch gas line.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: rain** **Wind: breezy** **Humidity**

Date: September 10, 2018 **Time: 1100 - 1530** High Med Low

Temp: 55 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation along the northern and western sides of the maintenance facility. Testing of fitting and connections by RECONN. Gas main pipeline trench was saw cut and extended southward toward the golf cart path near the 8th tee box. Pipeline installed

Site Work Progress: Gas Line trench was extended to its first intersection with the golf cart path along fairway #8. Backfilling of pipeline in trenches on the northern and western side of the maintenance facility. Weather slowed the progress of work today. All pipes that could be installaed, were installed.

No air monitoring measurements exceeded background concentrations.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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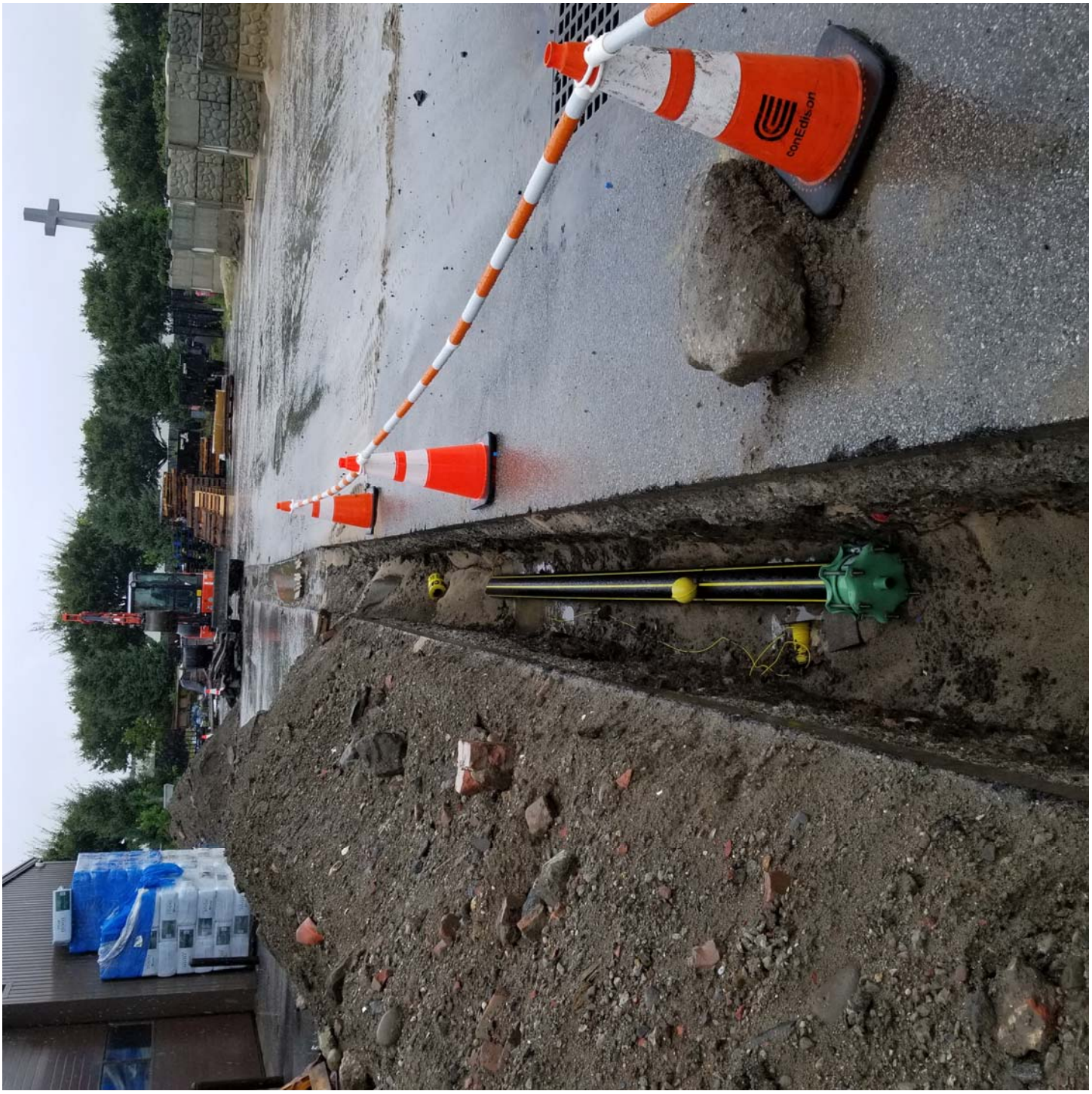

Photo 1:Gas line along the northern side of the maitenace facility.

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Photo 2:Pipeline installation along the west side of the maintenance facility.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast with occasional drizzle** **Wind: calm** **Humidity**

Date: September 11, 2018 **Time: 1030 - 1530** High Med Low

Temp: 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation along the northern side of the maintenance facility northward toward the 7th fairway. Testing of fitting and connections by RECONN. Gas main pipeline along fairway #6 was backfilled to specifications. Approximatley 450 of backfill was completed today.

Site Work Progress: Backfilling of pipeline from the northern side of the golf course southward toward the cart path along Fairway #6. Pipeline installation continued from the maintenance facility northward toward the 7th Tee Box.

No air monitoring measurements exceeded background concentrations.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**

Date:

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Photo 1:Gas line along the northern side of the maitenace facility.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy/Slightly Rainy** **Wind: light to mild** **Humidity**

Date: September 12, 2018 **Time: 0900 - 1700** High Med Low

Temp: 60 - 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation pipeline - Backfilling in the Trenches North of Maintenance Garage

Piping welded around trench bends for pipeline installation by Con Edison.

No 4-gas meter measurements above background levels.

Site Work Progress: Various locations of trenchs were backfilled north of the maintenance building. Toward the northern end of the course near Buttrick & Dewey Ave prior backfilling and near the maintenance building area, clean cover sand was backfilled to a minimum of 3" thick above the gas pipe and shaping material soil was covered over. Areas near the intersection of the golf course were backfilled with a minimum of 3" thick clean fill sand at the base of the trench. Thickness of the clean fill above and below pipes were measured every 10' throughout the trench.

79,500 lbs of clean cover fill from Ranco Sand & Stone was delivered to the site at the maintenance building.

Con Edison welded and installed plastic 6-inch pipe at trench bends near the trail intersection of the gas installation .

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

Customer Loyalty through Client Satisfaction.

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Photo 1: Northern Trench Near Buttrick and Dewey Ave Backfilled to Grade with Shaping S

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Photo 2: Northern Trench Near Maintenance Building Backfilled to Grade with Shaping Soil

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Cloudy/Slightly Rainy** **Wind: light to mild** **Humidity**

Date: September 13, 2018 **Time: 0800 - 1500** High Med Low

Temp: 60 - 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation pipeline – Excavating Trenches South of Maintenance Garage toward clubhouse

Piping welded around trench bends for pipeline installation by Con Edison.

No 4-gas meter measurements above background levels.

Site Work Progress: Roughly 500' of trench south of the maintenance building from the rear entrance along the path to the clubhouse was excavated. Trench depth ranged from 30 – 40" below ground surface. Near the fence line of the trench, gravel, plastic piping, and plastic liner was encountered. Roughly 10' of perforated pipe was damaged during the disturbance. The contractor (Anthony) was notified to repair the drainage area. Unmarked utilities were also encountered, but were not damaged beyond the casings. All materials were stocked onto plywood panels along the trench. Shaping layer soil was placed on the far end of the trench, while cover sand soil was placed near the trench for backfilling.

Remaining shaping layer soil from backfilling activities around the maintenance building was stockpiled toward the northwest end of the maintenance building.

Con Edison continued welding and installing plastic 6-inch pipe at trenches north of the maintenance building.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
Date:

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Photo 1: Trench South of Maintenance Building Along Hutchinson River Parkway

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Photo 2: Damaged Perforated Piping from Drainage Area

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: Cloudy/Slightly Sunny** **Wind: light to mild** **Humidity**

Date: September 14, 2018 **Time: 0800 - 1500** High (Med) Low

Temp: 60 - 70 °F

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation pipeline – Excavating Trenches South of Maintenance Garage toward clubhouse, Backfilling Trenches North of Maintenance Garage

Piping installed in southern trenches by Con Edison.

No 4-gas meter measurements above background levels.

Site Work Progress: Roughly 400' of trench south of the maintenance building along Hutchinson the path to the clubhouse was excavated. Trench depth ranged from 30 – 40" below ground surface. Near the fence line of the trench, gravel, plastic piping, and plastic liner was encountered. Roughly 2' of perforated pipe was damaged during the disturbance. The contractor (Anthony) was notified to repair the drainage area. Portions of the trench were primarily composed of gravel from the runoff drainage system and will be backfilled. Asphalt was cut and concrete was broken up on the eastern rear gate prior to trenching. All materials were stocked onto plywood panels along the trench. Shaping layer soil was placed on the far end of the trench, while cover sand soil was placed near the trench for backfilling.

Roughly 20' of clean cover soil was backfilled over piping in trenches north of the maintenance building to a minimum thickness of 3". Caution tape was placed on top of the backfilled sand.

Con Edison performed a pressure test at the rear gate entrance of the maintenance garage. The test was successful with no leaks in the system. Plastic 6" pipe at trenches south of the maintenance building were installed. The trench was not backfilled with 3" minimum of bedding. Anthony and Con Edison were notified that clean cover sand must be backfilled on the bedding of the trench either prior to installation or worked around the piping. Con Edison responded that the bedding will be installed.

Site Photographs: (Yes) No

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: John Fortunato

Reviewed By:
Date:

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Photo 1: Trench South of Maintenance Building Along Hutchinson River Parkway

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Photo 2: Piping Installed in Trench near Rear Entrance Gate, Asphalt and Concrete to be Trenched.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: Sunny/Slightly Cloudy** **Wind: light to mild** **Humidity**

Date: September 13, 2018 **Time: 0800 - 1500** **Temp: 60 - 70 °F** High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation pipeline – Excavating Trenches South of Maintenance Garage toward clubhouse, Backfilling Trenches North of Maintenance Garage

Piping installed in southern trenches by Con Edison.

No 4-gas meter measurements above background levels.

Site Work Progress: Roughly 250' of trench south of the maintenance building along Hutchinson the path to the clubhouse was excavated. The trench was generally excavated on the inner fence line limits within the surface water drainage system area, which consisted of gravel, perforated ppe, and geotextile. The trench was generally ~36" below ground surface. Roughly 6' of perforated pipe was observed to be damaged during the trenching and scattered geotextile pieces. The contractor (Anthony) was notified to repair the drainage areas prior.

Asphalt was cut and concrete was broken up on the eastern rear gate prior to trenching the area in preparation of Con Edison's pipe installation. Broken up asphalt and concrete were stockpile separately for disposal. Remaining materials were stockpiled onto plywood panels along the trench or across the asphalt trail, as applicable.

Roughly 80' of clean cover soil was backfilled over piping in trenches north of the maintenance building to a minimum thickness of 3". Caution tape was placed on top of the backfilled sand.

Plastic 6" pipe at trenches south of the maintenance building were installed. The trenches were not initially backfilled with 3" minimum of bedding. Anthony and Con Edison are aware that clean cover sand must be backfilled on the bedding of the trench either prior to installation or worked around the piping. Con Edison responded that the bedding will be installed.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: John Fortunato

Reviewed By:
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Photo 1: Trench South of Maintenance Building Along Hutchinson River Parkway (~1/2 Length from Rear Gate to Clubhouse, Gravel & Runoff Sand Excavated and stockpiled)

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Photo 2: Trench Between Buttrick & Dewey Ave and trail Crossroad backfilled with minimum of 3" thick clean Sand (Backfill subsequently leveled and caution tape placed on top)

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather; Variable with heavy rains** **Wind: moderate** **Humidity**

Date: September 18, 2018 **Time: 1000 - 1400** **Temp: 75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation and Trenching along the cart path adjacent to Fairway #8.

No 4-gas meter measurements above background levels.

Site Work Progress: Work was slowed to to heavy rains that were once Hurrican Florence. Trenching was advanced on the western side of the cart path near Fairway #8. Con Edison installed 6-inch gas line sections along this same route. Section couplings were tested and approved by RECONN.

Trenching operation is approximately 800 feet ahead of the pipeline installation.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo 1: Con Edison installing 6 inch pipeline section west of the cart path near Fairway #8.

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Photo 2: Trench on the east side of the cart path adjacent to Fairway #6 is backfilled.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather; mostly sunny and warm** **Wind: light & variable** **Humidity**

Date: September 19, 2018 **Time: 1000 - 1500** **Temp: 70-75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation and Trenching along the cart path adjacent to Fairway #8.

No 4-gas meter measurements above background levels.

Site Work Progress: Gas line installation work continued along the utility cart path adjacent to Fairway #8. Con Edison crews were short manpower as most were getting re-certified for pipeline work installations. Bellisimo continued trenching and backfilling as appropriate.

To date: approximately 4,000 feet has been trenched; 2,800 feet has had pipeline installed, pressure tested and backfilled; 900 feet of open trench with pipe tested but not backfilled; 300 feet of open trench ready for pipeline installation.

Approximatley 1,000 feet of trenching remains.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather; mostly sunny** **Wind: light & variable** **Humidity**

Date: September 20, 2018 **Time: 1000 - 1500** **Temp: 70 °F** High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Gas Main Installation and Trenching along the cart path adjacent to Fairway #8 up to the intersection with the parking lot.

No 4-gas meter measurements above background levels.

Site Work Progress: Gas line installation work continued along the utility cart path adjacent to Fairway #8 and up to the parking lot. Con Edison crews worked to weld, install and pressure test to pipe sections-monitoring by RECONN. Bellisimo continued trenching and backfilling as appropriate.

To date: approximately 4,500 feet has been trenched

Approximatley 500 feet of trenching remains. Trump is awaiting word from the engineer how close the new pipeline needs to to get to the new clubhouse to have sufficient gas supply.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT

M T W TH F SA SU **Weather: Cloudy** **Wind: 10-15mph** **Humidity** (High Med Low)
Date: 9/21/2018 **Time: 7:30am**
Temp: 65 degrees

Name of Project: Trump Links Gas Main **Municipality: Bronx, NY** **Job No: 17002426A**

Site Contractors: Bellisimo Construction, ConEdison

Active Site Work Areas:

Site Work Progress: **Trenching began along west side of entrance to service road.**
Trenching extended to wrap around to the front of the "Trump Links" sign
Began ripping up asphalt to connect to current gas box
Encountered water from either irrigation lines or rainfall in trench
ConEd connected gas main and pressure tested it (Passed)
Backfilled areas include only across the service road to allow access for cars

Remarks: N/A

Site Photographs: Yes **Additional Action Required by Project Mgr. or Eng.: (YES NO)**

Observed By: VJC **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather; mostly cloudy & wiindy** **Wind: windy** **Humidity**

Date: September 24, 2018 **Time: 1000 - 1500** **Temp: 60-65** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation and Trenching extended to the Trump Links sign and across the driveway to the gas vault. Con Edison continued to weld sections of pipeline, install and test with RECONN inspections.

No 4-gas meter measurements above background levels.

Site Work Progress: Gas line installation trenching is almost completed. Con Edison crews worked to weld, install and pressure test to pipe sections-monitoring by RECONN. Bellisimo continued trenching and backfilling as appropriate.

To date: approximately 5,000 feet has been trenched

Con Edison engineer indicated that the because a 6-inch line was intstalled instead of a 4-inch line there will be a sufficient volume of fuel for the new clubhouse.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Photo 1: Gas Main Trench is extended beyond the Trump Links Sign to the gas vault.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: heavy rain** **Wind: gusty** **Humidity**

Date: September 25, 2018 **Time: 1200 - 1500** **Temp: 65-70** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Gas Main Installation and Trenching in front of New Club House

No 4-gas meter measurements above background levels.

Site Work Progress: Heavy rain hampered work progress today.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Photo: 1 Trenching in front of the new club house.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny & warm** **Wind: light & variable** **Humidity**

Date: September 26, 2018 **Time: 1200 - 1500** **Temp: 75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison

Active Site Work Areas: Gas Main Installation and Trenching in front of New Club House. Attempts made to locate existing gas service to connect it to the new 6 inch main.

No 4-gas meter measurements above background levels.

Site Work Progress: Backfilling of trench in front of new clubhouse after pipeline installation and testing by Con Edison. Locate existing 2-inch service line so that it can be connected to the new 6-inch gas main.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Photo: 1 Trenching in front of the new club house.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny & warm** **Wind: calm** **Humidity**

Date: October 1, 2018 **Time: 1200 - 1400** **Temp: 70** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: topping of backfilled areas with cover material to bring grade a minimum of 27" above the top of the gas line. Cover material was imported from Ranco Sand & Stone.

No 4-gas meter measurements above background levels.

Site Work Progress: areas of the gas line on the northern side of the golf course were prepared with cover material. Work areas include the gas line route along Fairways #6 and #7.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Photo: 1 Cover material from Ranco S&S placed over the gas line to provide adequate cover thickness.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny & warm** **Wind: calm** **Humidity**

Date: October 2, 2018 **Time: 1200 - 1400** **Temp: 75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: topping of backfilled areas with cover material to bring grade a minimum of 27" above the top of the gas line. Cover material was imported from Ranco Sand & Stone. Miscellaneous work throughout the job site as Con Edison was not on-site today.

No 4-gas meter measurements above background levels.

Site Work Progress: areas of the gas line on the northern side of the golf course were prepared with cover material. Work areas include the gas line route along Fairways #6, #7 and #8.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Photo: 1 Cover material at pipeline route adjacent to Fairway #7.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny & warm** **Wind: calm** **Humidity**

Date: October 3, 2018 **Time: 1200 - 1400** **Temp: 75** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: topping of backfilled areas with cover material to bring grade a minimum of 27" above the top of the gas line. Cover material was imported from Ranco Sand & Stone. Miscellaneous work throughout the job site as Con Edison was not on-site today.

No 4-gas meter measurements above background levels.

Site Work Progress: areas of the gas line on the northern side of the golf course were prepared with cover material. Work areas include the gas line route along Fairways #6, #7 and #8.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Photo: 1 Cover material at pipeline route adjacent to Fairway #6.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: overcast & warm** **Wind: calm** **Humidity**

Date: October 9, 2018 **Time: 1000 - 1500** **Temp: 70- 75 °F** High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas:Bellision Construction worked the gas pipeline route along side Fairway #6 adding sufficient cover material and grading. Additional landscaping work was conducted in from of the "Trump Links' sign. Con Edison workers were staged on the roadway north of the golf course-opening the roadway in preparation to make the connection with the gas main at Schley and Buttrick.

No 4-gas meter measurements above background levels.

Site Work Progress: Most of the cover material along side Fairway #6 was placed above the new gasline-elevating the area as per the design specifications. Excavations in the road north of the golf course were slow and meticulous due to the abundance of underground utilities.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

Photo: 1 Cover material at pipeline route adjacent to Fairway #6.

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Photo #2: excavations to connect the new gas line with the existing main

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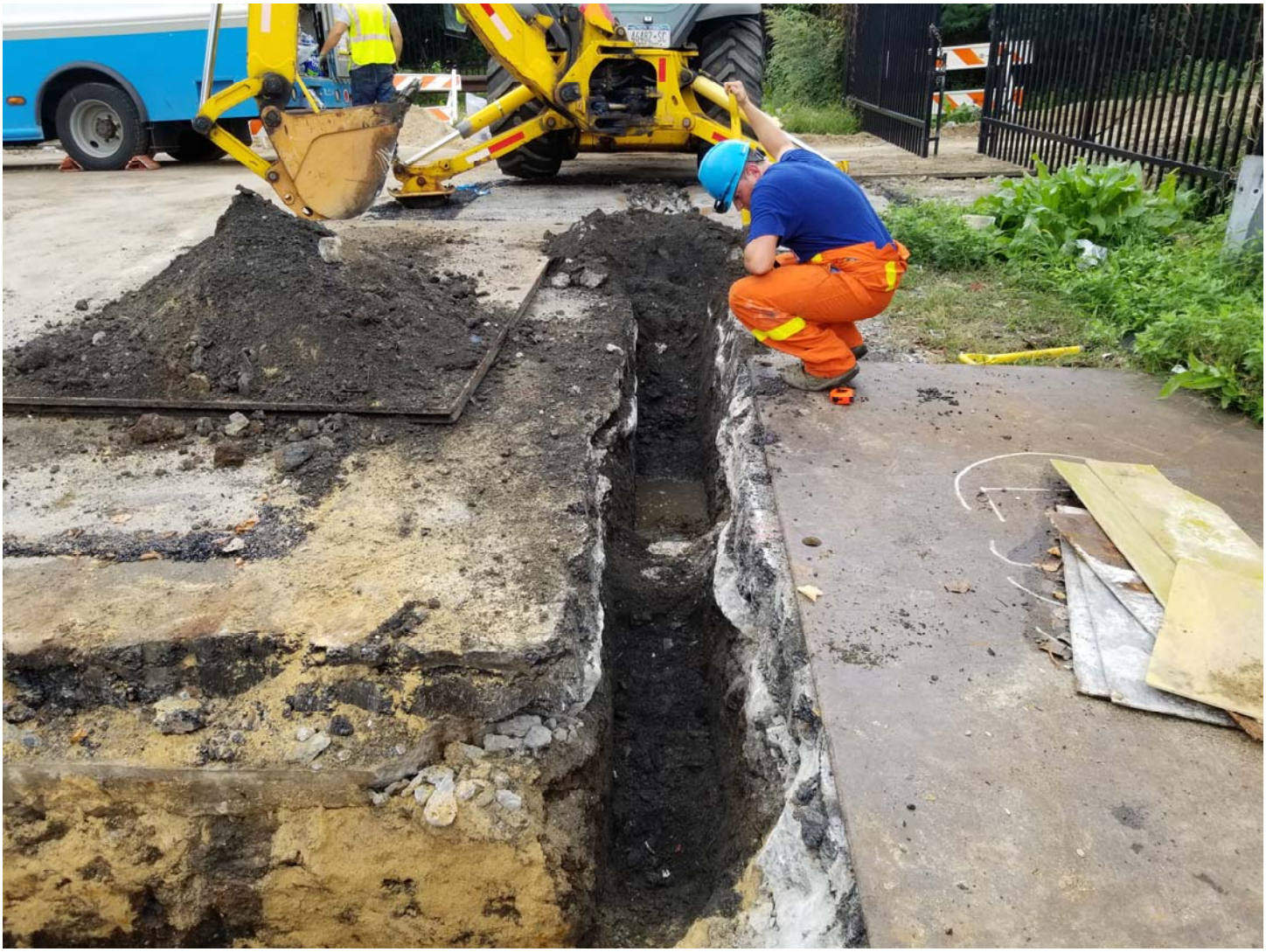

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly sunny & warm** **Wind: light** **Humidity**

Date: October 10, 2018 **Time: 1030 - 1430** **Temp: 75-78 °F** High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Bellision Continue construction work along the gas pipeline route along side Fairway #6 adding sufficient cover material and grading. Additional landscaping work was conducted in from of the "Trump Links' sign. Con Edison workers were not on-site today.

No 4-gas meter measurements above background levels.

Site Work Progress: Most of the cover material along side Fairway #6 was placed above the new gasline-elevating the area as per the design specifications. Excavations in the road north of the golf course have been backfilled. Con Edison was not on-site today so the schedule for the new gas line to be connectred to the Main is unclear.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo: 1 Cover material at pipeline route adjacent to Fairway #6.

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Photo #2: Area where the new gas line will be connected to the existing main.

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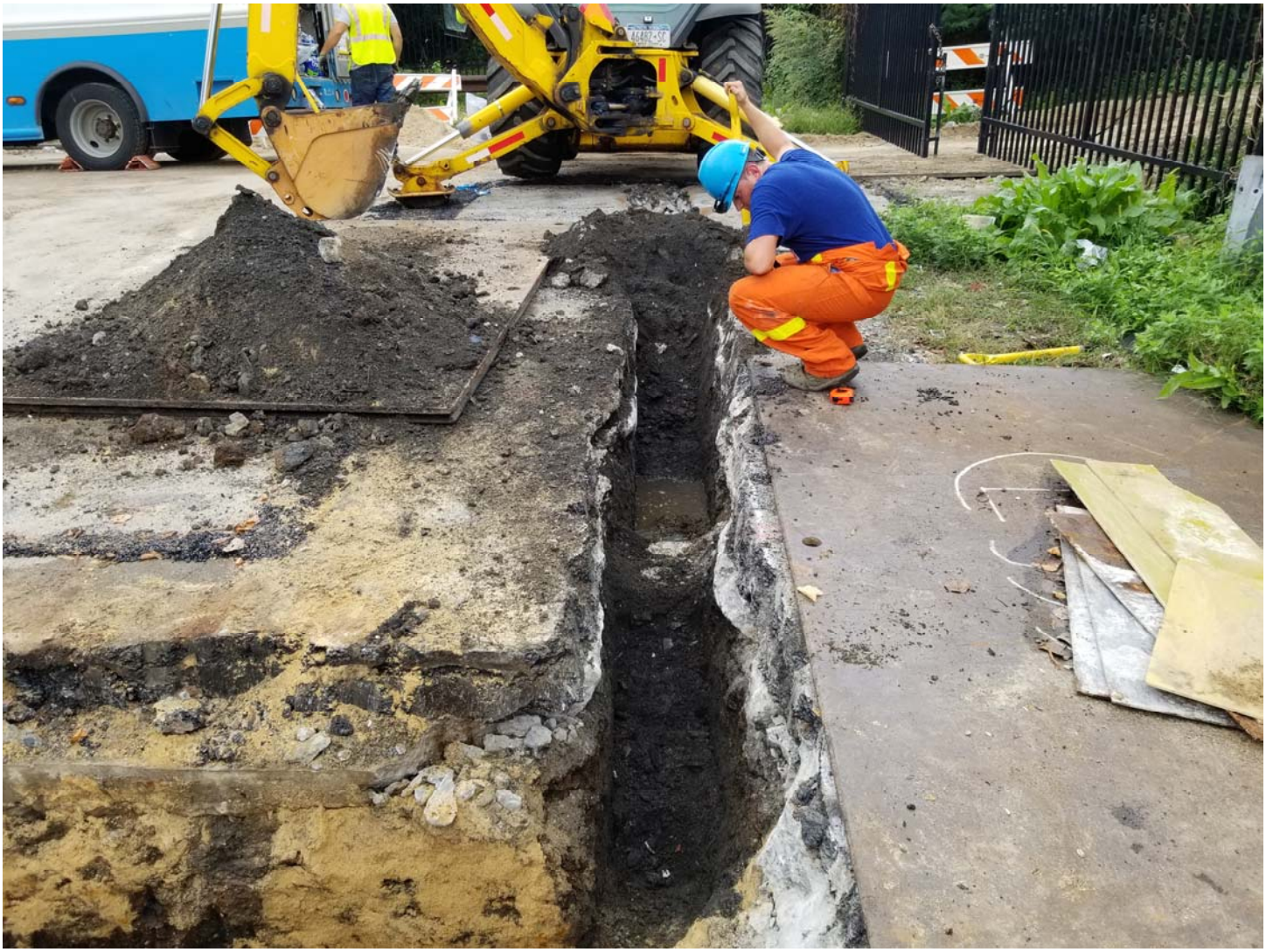

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: cloudy & mild** **Wind: steady winds** **Humidity**

Date: October 15, 2018 **Time: 1030 - 1430** **Temp: 65** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony)

Active Site Work Areas: Bellisimo continues miscellaneous construction work along the gas pipeline route along side Fairway #6 adding sufficient cover material and grading. Additional landscaping work was conducted in front of the "Trump Links' sign. Con Edison workers were not on-site today.

No 4-gas meter measurements above background levels.

Site Work Progress: Most of the cover material along side Fairway #6 was placed above the new gasline-elevating the area as per the design specifications. Excavations in the road north of the golf course have been covered with protective steel road plates. Con Edison was not on-site today so the schedule for the new gas line to be connected to the Main is unclear. Cover material was staged in the vicinity of open excavations so that it's ready to be deployed as soon as Con Edison makes the final gas line connections.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 Cover material staged at the northern end of the pipeline route inpreparation for the connection to the gas main at Buttrick & Schley .

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Photo #2: Area where the new gas line will be connected to the existing main.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather:mostly sunny** **Wind: steady winds** **Humidity**

Date: October 16, 2018 **Time: 1130 - 1430** **Temp: 50-55** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony) (offsite)

Active Site Work Areas: Bellisimo continues miscellaneous construction work along the gas pipeline route along side Fairway #6 adding sufficient cover material and grading—although they were no observed to be on-site today. Additional landscaping work was conducted in from of the "Trump Links' sign. Con Edison workers were not on-site today. Gas Main connection still needs to be accomplished at Buttrick & Schley and at the Club House.

No 4-gas meter measurements above background levels.

Site Work Progress: Most of the cover material along side Fairway #6 was placed above the new gasline-elevating the area as per the design specifications. Excavations in the road north of the golf course have been protected with steel road plates. Con Edison was not on-site today so the schedule for the new gas line to be connected to the Main is unclear. Cover material was staged in the vicinity of open excavations so that it's ready to be deployed as soon as Con Edison makes the final gas line connections.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
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Photo: 1 Steel road plates cover the gas line excavation trench at Buttrick & Schley .

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Photo #2: Area where the new gas line will be connected to the existing service branch for the club house.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: clear & sunny** **Wind: steady winds** **Humidity**

Date: October 18, 2018 **Time: 1100 - 1530** **Temp: 45** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Bellisimo continues miscellaneous construction work along the gas pipeline route along side Fairway #6. They are also restoring the cart path adjacent to Fairway #6.

Con Edison makes the connection of the 6-inch Gas Line to the 2-inch supply line near the new club house. RECONN inspects and tests all joints and connections.

No 4-gas meter measurements above background levels.

Site Work Progress: Most of the cover material along side Fairway #6 was placed above the new gasline-elevating the area as per the design specifications. Excavations in the road north of the golf course have been protected with steel road plates. Con Edison was on-site today and made the connection of the 6-ich gas line to the 2-inch supply line near the club house.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 Con Edison making the connection of the 6-inch gas line to the 2-inch supply line near the Club house.

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Photo #2: Bellisimo working on the cart path adjacent to Fairway #6/Tee Box for Hole #7.

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH (F) SA SU **Weather: mostly sunny & mild** **Wind: light** **Humidity**

Date: October 19, 2018 **Time: 1200 - 1530** **Temp: 55 °F** High (Med) Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: Bellisimo Masonry & Construction (Anthony), Con Edison, RECONN

Active Site Work Areas: Bellisimo continues miscellaneous construction work along the gas pipeline route at multiple locations.

Con Edison makes the connection of the 6-inch Gas Line to the main gas line at the intersection for Buttrick & Schley. RECONN inspects and tests all joints and connections.

No 4-gas meter measurements above background levels.

Site Work Progress: the new 6-inch gas line has now been connected to the gas main. Following testing, the new 5,000 foot gasline can be activated.

Site Photographs: Yes (No)

Additional Action Required by Project Mgr. or Eng.:

YES (NO)

Observed By: Dave Keil **Reviewed By:**
Date:

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DAILY FIELD OBSERVATION REPORT – ENVIRONMENTAL

M T W TH F SA SU **Weather: mostly overcast skies** **Wind: breezy** **Humidity**

Date: October 22, 2018 **Time: 1200 - 1500** **Temp: 50- 55** °F High Med Low

Name of Project: Trump Golf Links – Ferry Point Park **Municipality: Bronx, NY** **Job No: 17002426C**

Site Contractors: No contractors on site today

Active Site Work Areas: No active work areas as contractors were not onsite today. Open trenches at the new clubhouse and the connection point for the gas line we checked for air quality.

No 4-gas meter measurements above background levels.

Site Work Progress: Contractors were not on-site today. Air quality measurements were collected at open trenches at the northern and southern end of the pipeline route. No measurements recorded above background levels.

Site Photographs: Yes No

Additional Action Required by Project Mgr. or Eng.:

YES NO

Observed By: Dave Keil **Reviewed By:**
Date:

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Photo: 1 Gas Line connected at northern end of pipeline route.

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Photo #2: Pipeline connection area at southern end of pipeline route near the new clubhouse.

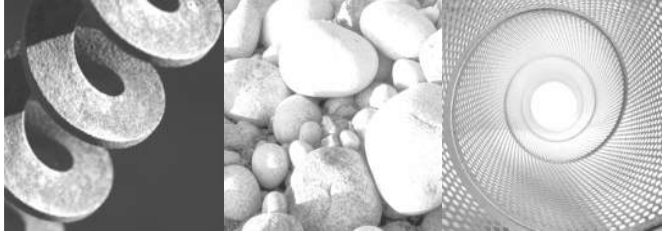

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Engineers and
Scientists

2023 Semi-Annual Post-Closure Certification Report

Ferry Point Park
500 Hutchinson River Parkway
Bronx, New York 10465
NYSDEC Part 360 Permit No. 2-6006-00014/00013
(2-6006-00014/00016)

Prepared for:
New York State Department of
Environmental Conservation
Division of Materials Management, Region 2
47-40 21st Street
Long Island City, New York 11101

On Behalf of:
New York City Department of Parks & Recreation
Capital Projects – Environmental Remediation Unit
Olmsted Center
117-02 Roosevelt Avenue
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Sr. Environmental Practice Leader

October 2023
Project 2204594

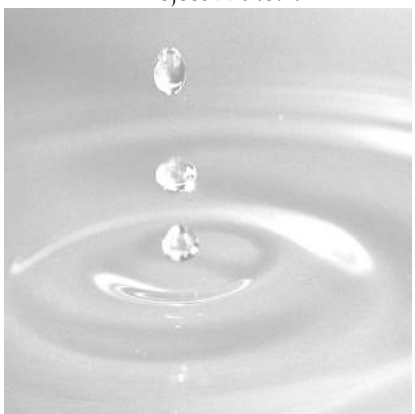

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Appendices

A. Cover System and Infrastructure Inspection Reports
B. Groundwater Sampling Summary Report – 2023 Sampling Event
NYSDEC Groundwater Sampling Reduction in Frequency Letter
C. Landfill Gas Monitoring Reports
D. Piezometer Monitoring Reports
E. Settlement Plate Monitoring Report
NYSDEC Settlement Plate Monitoring Termination Letter
F. Sub-Slab Depressurization System Monitoring Reports

SN//KM/GR:ag
B:\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\Reports\Annual Certification Report\GEI Reports\2023 Semi-Annual Post-Closure Certification Report_2023-10-04.docx

Certification

I, Gary Rozmus, P.E., am currently a registered professional engineer licensed by the State of New York. On behalf of New York City Department of Parks & Recreation (NYCDPR) and acting as its consultant, I hereby certify to the best of my knowledge, and based on all of the information made available to me, that the post-closure activities summarized in this report and performed at the Ferry Point Park Golf Course project site in Bronx, New York, were completed in general accordance with the Post-Closure Custodial Care Plan (PCCCP), originally included in the Supplemental Engineering Report dated October 15, 2013 (Volume 3, Appendix I), and as stated in Special Condition No. 35 of the New York State Department of Environmental Conservation (NYSDEC) Part 360 Permit No. 2-6006-00014/00013 (2-6006-00014/00016), effective May 21, 2014.

To the best of my knowledge, the statements included in this 2023 Semi-Annual Post-Closure Certification Report are accurate based on the information available. GEI Consultants has not knowingly falsified any of the information presented in this document. The post-closure monitoring activities and deliverables included in this report were performed by GEI Consultants, subcontractors, and field personnel under my supervision.

This statement does not apply to the Waterfront Park. It is our understanding that the originally developed plans for the Waterfront Park were revised to reflect a passive open space with multiuse paths, lookout points and a constructed wetland. The Waterfront Project was removed from the New York Codes, Rules and Regulations (6 NYCRR) Part 360 Permit No. 2-6006-00014/00013 and NYSDEC and United States Army Corps of Engineers (USACE) issued Tidal Wetlands permits to the revised Waterfront.

Date signed and sealed:

10/04/2023

Gary Rozmus, P.E.
NY License #056744

1. Introduction

This Semi-Annual Post-Closure Certification Report documents the work performed by New York City Department of Parks & Recreation (NYCDPR) and its contractors to complete the post-closure activities conducted from January 2023 through June 2023 at the Ferry Point Park (Site), located at 500 Hutchinson River Parkway, Bronx, New York. Post-closure activities were conducted in accordance with the Post-Closure Custodial Care Plan (PCCCP), originally included in the Supplemental Engineering Report dated October 15, 2013 (Volume 3, Appendix I), as stated in Special Condition No. 35 of the New York State Department of Environmental Conservation (NYSDEC) Part 360 Permit No. 2-6006-00014/00013 (2-6006-00014/00016). Post-closure monitoring activities include piezometer monitoring, landfill gas (LFG) monitoring, sub-slab depressurization system (SSDS) monitoring, cover system and infrastructure inspections, settlement plate monitoring, groundwater sampling, and infrastructure repairs and upgrades (if needed).

In accordance with the PCCCP, piezometer monitoring was conducted monthly. On a quarterly basis, SSDS and LFG monitoring were performed, as well as cover system and infrastructure inspections. Settlement plate monitoring was conducted annually, however, as of June 15, 2023, NYSDEC has approved the cessation of all future annual settlement plate monitoring. Biennial groundwater sampling was conducted in April 2023. Copies of the post-closure monitoring activity reports conducted between January 2023 and June 2023 are provided as appendices to this report.

1.1 Site History

Historically, Ferry Point Park operated as a municipal solid waste landfill from 1951 to the 1960s. The landfill was operated by the New York City Department of Sanitation (NYCDOS), with operations ceasing in the 1960s. The entire site was capped thereafter with a soil cover of varying thickness. In the late 1990s, NYCDPR entered into an agreement to develop and operate a new public recreation facility including a 10-acre community park, 180-acre golf course, 19.5-acre waterfront park, as well as related facilities (referred to collectively as "Ferry Point Park"). Ferry Point Park is bounded by the East River to the south, Schley Avenue and St. Raymond's Cemetery to the north, Miles, Balcom, and Emerson Avenues to the east, and Hutchinson River Parkway and the Whitestone Bridge to the west.

The Site is operated as a part of the NYCDPR system; the Community Park and Waterfront Park are operated and maintained by the NYCDPR Borough of the Bronx Operations and Maintenance division (or an appointed representative), the Golf Course was operated and maintained by a Concessionaire identified as Trump Ferry Point, LLC, which has since been transferred to the Bally's Corporation as of September 13, 2023. NYCDPR remains responsible for all inspection monitoring, reporting, and oversight of operations and maintenance of the

pertinent Site-wide components identified in the PCCCP. While the 19.5-acre Waterfront Park is included as a portion of "Ferry Point Park," the Waterfront Park area is not included in the scope of post-closure monitoring or within this report. The originally developed plans for the Waterfront Park were revised to reflect a passive open space with multiuse paths, lookout points and a constructed wetland. The Waterfront Project was removed from the New York Codes, Rules and Regulations (6 NYCRR) Part 360 Permit (2-6006-00014/00013) and NYSDEC and United States Army Corps of Engineers (USACE) issued Tidal Wetlands permits to NYCDPR for the revised Waterfront.

2. Post-Closure Monitoring Program

2.1 Cover System and Infrastructure Inspection

In accordance with Section 3.3.2.1 of the PCCCP, quarterly monitoring of the final cover system is required during the post-closure period to observe and document vegetative cover conditions, settlement, erosion damage, and cover drainage systems. Additionally, as stated in Section 3.3.2 of the PCCCP, biannual infrastructure inspections of the LFG vents are required; the LFG system included 25 individual passive vents and 12 passive utility collar vents located within the golf course, 12 passive vents located within the community park, as well as additional passive vents through the Site corresponding to features such as the water quality pond liners. Cover system and/or infrastructure inspections were conducted on the following dates:

- March 30, 2023
- June 26 and 27, 2023

In addition, an inspection of the asphalt pavement of the Clubhouse parking lot was conducted on the following date:

- June 27, 2023

Cover inspection and parking lot pavement inspection reports for the referenced events are provided in Appendix A. Overall, the cover system remains in good condition with some areas that required re-seeding and mulching, clearing of clogged drains, and some areas of washout into cart paths. These minor deficiencies were communicated to and are closely addressed/monitored by the Concessionaire. Additionally, the asphalt surface of the parking lot continues to function as a suitable landfill cover system, providing an exposure barrier between the public and subsurface materials. Any observed cracks are surficial and do not penetrate through the full asphalt cap.

2.2 Groundwater Monitoring

In accordance with the NYSDEC Part 360 Permit No. 2-6006-00014/00013 and the NYSDEC letter dated January 7, 2020, groundwater sampling requirements have been modified to be conducted on a biennial basis. The preceding groundwater sampling event was completed in April 2021. Therefore, the biennial groundwater sampling event was conducted on April 25 to 26, 2023.

Results from the groundwater sampling event indicate that groundwater flow direction and elevation have remained consistent across the Site. The analytical results for samples collected during the April 2023 event indicate that the groundwater in certain locations beneath Site

contains volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, ammonia, sulfate, and cyanide above NYSDEC Ambient Water Quality Standards (AWQS). With the exception of cyanide, the April 2023 event detections of VOCs, SVOCs, metals, and phenolics are generally consistent in location and/or concentration with previous sampling events. The presence of cyanide is generally consistent with other previous post-closure monitoring events, however, exceedances of the AWQS were only reported during the 2023 sampling event at two sampling locations (PZ-15 and GMW-10).

The report summarizing sampling methodology and locations, analytical results, conclusions and recommendations is included in Appendix B.

2.3 Landfill Gas Monitoring

In accordance with NYSDEC Part 360 Permit No. 2-6006-00014/00013, the PCCCP, and the Landfill Gas Management Plan dated 2013, annual and quarterly monitoring is required for offsite and perimeter LFG monitoring points during the post-closure period. In addition to the LFG monitoring wells located within the interior and exterior of the golf course, passive LFG vents stationed in the interior of the golf course were also monitored. LFG monitoring included the collection of oxygen (O_2), carbon monoxide (CO), methane (percent lower explosive limit [LEL], percent methane by volume), hydrogen sulfide (H_2S), VOCs, well pressure, humidity, air flow, vacuum pressure, and/or temperature measurements. LFG data was collected utilizing a Landtek GEM 5000 Plus with temperature probe, photoionization detector (PID), and a TSI Velocicalc. All equipment was calibrated prior to commencing the monitoring events.

LFG monitoring was conducted on the following dates:

- March 28 to 30, 2023
- June 27 to 28, 2023

The Q1 and Q2 2023 monitoring reports are provided in Appendix C. In general, the LFG monitoring results are consistent with previous post-closure monitoring events and suggests that LFG conditions are stable.

2.4 Piezometer Monitoring

In accordance with the October 2013 Landfill Gas Management Plan and the October 2013 PCCCP, monthly monitoring of piezometers is required. During each monitoring event, groundwater levels were measured using an electronic groundwater level meter. Piezometer monitoring was conducted on the following dates:

- January 31, 2023
- February 24, 2023

- March 29, 2023
- April 24, 2023
- May 22, 2023
- June 27, 2023

The Piezometer Monitoring Reports for the aforementioned dates are provided in Appendix D. The piezometer monitoring results indicate that all of the piezometers are in functional condition and there was sufficient groundwater elevation to inhibit methane migration beyond the landfill boundaries.

2.5 Settlement Plate Monitoring

Settlement plate monitoring was performed to detect and monitor the rate of settlement that may occur due to solid waste decomposition and was first conducted in 2013. Settlement plate monitoring was performed by GEI on March 29, 2023, in accordance with NYSDEC Part 360 Permit No. 2-6006-00014/00013, the PCCCP, and NYSDEC letter dated January 7, 2020, providing approval to modify the monitoring frequency from quarterly to annually.

The nine settlement plates were surveyed by New York State Licensed Land Surveyor Contractors Line and Grade South (Elmsford, NY). The following data was recorded for each settlement plate:

- Riser elevation
- Settlement
- Cumulative settlement (feet and inches)

Following performance and review of the March 2023 results, GEI recommended terminating all future settlement plate monitoring. Since 2013, the cumulative settlement was negligible, ranging from 0.00 ft to -0.30 ft across all nine plates. Based on these minor fluctuations in elevation, NYSDEC approved to terminate all future monitoring on June 15, 2023, as long as the former landfill continues to be utilized and maintained in its current condition as a golf course.

The March 2023 Annual Settlement Plate Monitoring Report, which includes the results of all previous settlement plate monitoring events, is provided in Appendix E. The NYSDEC letter approving termination of annual settlement plate monitoring is also included in Appendix E.

2.6 Sub-Slab Depressurization System Monitoring

In accordance with the October 2013 PCCCP, NYSDEC Part 360 Permit No. 2-6006-00014/00013, and the Landfill Gas Management Plan dated 2013, routine monitoring, operations, and maintenance of the sub-slab depressurization and combustible gas

(CG) monitoring systems is required to be performed on a quarterly basis during the post-closure monitoring period. A site-specific Operations, Maintenance, and Monitoring (OM&M) Manual was developed to address the requirements of the 2013 LFG Management Plan, including a comprehensive review and inventory of SSD and CG system design and construction. SSD and CG system OM&M is conducted on a quarterly basis in the Community Park Comfort Station, Golf Course Maintenance Building, Golf Course Comfort Station, the Cart Storage Barn, and the Golf Course Clubhouse.

SSD and CG system monitoring was conducted on the following dates:

- March 28, 2023
- June 26, 2023

Reports from the SSD and CG system monitoring events on the aforementioned dates are provided in Appendix F. Occasional readings from few SSDS points have detected a positive pressure gradient, which is believed to be associated with seasonal variations such as rise and fall of the water table. With the exception of these discrete anomalous pressure readings, the SSD systems are operating as intended and are overall maintaining negative pressure conditions beneath the building slabs, and thus no methane and very low levels of VOCs have been detected in the ambient air of the buildings.

All CG sensors were communicating with their respective control panels and registered ambient methane readings of 0.0% LEL. No elevated readings or alarm conditions were observed during the post-closure monitoring period.

3. Incidental Infrastructure Maintenance and Repairs

There were no infrastructure maintenance or repair activities conducted during this post-closure monitoring period related to the SSD and CG systems located in the Community Park Comfort Station, Golf Course Maintenance Building, Golf Course Comfort Station, the Cart Storage Barn, or the Golf Course Clubhouse.

The monitoring ports for certain LFG monitoring wells were noted to be damaged. The extent of damage is minimal and is primarily from cracked tubing leading out of the J-plugs for collecting measurements. In order to minimize future interference of ambient air during LFG monitoring, GEI will replace the cracked tubing containing holes with a more flexible tubing. These damaged monitoring ports are intended to be replaced during the Q3 2023 Landfill Gas Monitoring event.

Additionally, during the Q1 cover system inspection, two sections of fencing located along the fence line bounding the park and golf course were noted to be damaged. The damaged fencing along the northern portion of the fence was repaired by the Concessionaire by the time of the Q2 inspection. The damaged area along the southern fence line currently contains a temporary fence panel, however, a permanent repair is still required to be addressed by the Concessionaire.

4. References

Ecology and Environmental Engineering, P.C. "Ferry Point Park East Landfill Gas Management Plan." Originally submitted October 2011, Revised May 2012, August 2012, and October 15, 2013.

New York State Department of Environmental Conservation. Article 27, Title 7; 6NYCRR 360: Solid Waste Management Permit No. 2-6006-00014/00013/2-6006-00014/00016, Effective Date May 21, 2014. Special Condition No. 35 – Ferry Point Park East Post Construction Custodial Care Plan.

New York City Department of Parks and Recreation. "Ferry Point Park East Post Construction Custodial Care Plan." October 2013.

Appendix A

Cover System and Infrastructure Inspection Reports

April 7, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: Quarterly Final Cover System & Infrastructure Inspection - Quarter 1, 2023 (Report No. 28)
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the final cover system monitoring event conducted on March 30, 2023, at the Ferry Point Park Golf Course. Quarterly final cover system monitoring is conducted to observe and report vegetative cover conditions, cover drainage system, erosion damage, and settlement, in compliance with Section 3.3.2.1 of the October 2013 *Post Construction Custodial Care Plan*

During this inspection event, no cover system settlement was observed, and the cover drainage system appeared to be in good condition, with the exception of two area drains, across the Site.

Below is a summary of the observations denoted during the cover system inspection, with observed areas illustrated on **Figure 1**. A photo log documenting observed Quarter 1, 2023 cover system site conditions is attached:

- The Concessionaire was in the process of conducting annual vent trench maintenance at Hole 6 during the inspection (Photo 1). New mulch is expected to be delivered in the coming week, per the Concessionaire.

- Small animal burrows were noted in two locations (Photo 2). The Concessionaire was aware of these burrow locations and is set to address

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these locations by replacing the cover material and seed or sod the areas. Sod is made available from the onsite sod-farm.

- Areas of sparse vegetation and bare soil were observed in multiple locations throughout the Site, including the area where the Grandstands and media platforms were previously erected (Photo 3). These areas require vegetative stabilization; the Concessionaire was notified and will be addressing the noted locations.

- Walking and maintenance cart sand paths were observed throughout the golf course, with few requiring maintenance due to washout and erosion (Photo 4). The Concessionaire has been made aware of these washouts and understand they are responsible for preventing and correcting any sand erosion and washout in these sand paths.

- Two area drains were noted to be clogged with topsoil near Hole 1 and 15 (Photo 5). The Concessionaire stated that clogged area drains are addressed on a weekly basis.

- Previously reseeded areas in the spring and winter area showing vegetative regeneration (Photo 6).

- The outfall along the East River, adjacent to the Whitestone Bridge, was inspected during high tide. Debris and sediment were noted in the area around the structure (Photo 7 and 8).

- In the Ferry Point Community Park, along the fence line that bounds the park and golf course, a section of temporary fence is still present after being previously vandalized (Photo 9). Another area of the black fence is partially downed and requires repair (Photo 10). The Concessionaire was made aware and is to repair these areas of fencing.

Much of the vegetation is dormant due to the season, therefore new areas of limited, dormant, or no vegetation were noted by GEI during the cover system inspection. Please refer to previous reports which document areas with continued limited, dormant, or no vegetation.

Per the direction of previous reports, GEI communicated all field observations to the Concessionaire. The Concessionaire assured they will continue to monitor vegetative conditions on Site. Areas outside of the Concessionaire's maintenance responsibility shall be addressed by New York City Department of Parks & Recreation Maintenance and Operations (NYCDPR M&O).

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Site Map with Inspection Observations
Photo Log of Final Cover System Observations
Cover System Inspection Summary Table

c: M. Rowland, NYCDPR

K. Zias, NYCDPR

K. McCarty, GEI

SOURCE:
1. ESRI IMAGERY BASE MAP

0 450 900
SCALE: 1 " = 620 '

Ferry Point Park Bronx, New York Cover Inspection Report	GEI Consultants	QUATER 1 INSPECTION LOCATIONS
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	March 2023 Fig. 1

Photo Log
Quarterly Final Cover System Infrastructure Inspection - Quarter 1, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Photo 1: Looking northeast, the Concessionaire began the annual vent trench maintenance. New mulch is expected to be delivered in the coming week.

Photo 2: Looking southeast, animal burrow present at Hole 11. Also noted at Hole 5.

Photo 3: Looking southwest, previous area of Grandstands and media platforms with sparse vegetation (multiple locations, as illustrated on Figure 1).

Photo 4: Looking northeast, area of sand path washout onto paved cart path.

Photo 5: Looking southwest, area drain clogged with topsoil. Clogged drains present at Hole 1 and 15.

Photo 6: Looking southeast, previously reseeded area showing vegetative regeneration.

Photo 7: Looking northwest, condition of the outfall during high tide.

Photo 8: Looking northwest, debris and sediment present around the outfall location.

Photo 9: Looking southwest, temporary fencing present after previous vandalism.

Photo 10: Looking southwest, area of damaged fencing.

Cover System Inspection Summary Table
Date: As of 3/30/2023

Deficiency	Location(s)	Photo No.	Notification & Resolution		
			Concessionaire	NYCDPR M&O	Expected Completion
Vent trench mulch	1	1	x		Currently being addressed
Animal burrow	2	2	x		Addressed on rolling basis
Sparse vegetation	17	3	x		Addressed on rolling basis
Sand erosion along cart path	4	4	x		Addressed on rolling basis
Clogged area drains	2	5	x		Addressed on rolling basis
Outfall structure	1	7 & 8		x	TBD
Other: Community Park fence repair	2	9 & 10	x		TBD
Other:	N/A				

July 14, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Re: Quarterly Final Cover System & Infrastructure Inspection - Quarter 2, 2023 (Report No. 29)
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

Dear Ms. Catalanotto:

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the final cover system monitoring event conducted on June 26 and 27, 2023, at the Ferry Point Park Golf Course. Quarterly final cover system monitoring is conducted to observe and report vegetative cover conditions, cover drainage system conditions, erosion damage, and settlement, in compliance with Section 3.3.2.1 of the October 2013 *Post Construction Custodial Care Plan.*

During this inspection event, no cover system settlement was observed, and the cover drainage system appeared to be in good condition, with the exception of six (6) area drains across the Site.

Below is a summary of the observations denoted during the cover system inspection, with observed areas illustrated on **Figure 1**. A photo log documenting observed Quarter 2, 2023 cover system site conditions is attached:

- Since the Quarter 1 inspection, the vent trench along Hole 6 was observed with new mulch (Photo 1). The Concessionaire stated new mulch was added in April of 2023.

- No animal burrows were noted during this inspection event. However, the Concessionaire addresses animal burrows on an as-need basis by replacing

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the cover material and seed or sod the areas. Sod is made available from the onsite sod-farm.

- Areas of sparse vegetation and bare soil were observed in few locations throughout the Site, including the area near the Clubhouse and driving range (Photo 3). These areas require vegetative stabilization; the Concessionaire was notified and will be addressing the noted locations.

- Walking and maintenance cart sand paths were observed throughout the golf course, with few requiring maintenance due to washout and erosion (Photo 4). The Concessionaire has been made aware of these washouts and understand they are responsible for preventing and correcting any sand erosion and washout in these sand paths.

- Six (6) area drains were noted to be clogged with topsoil in various locations around the golf course, illustrated on Figure 1 (Photo 5). The Concessionaire stated that clogged area drains are addressed on a weekly basis.

- Previously re-seeded areas in the spring are showing vegetative regeneration (Photo 6).

- The outfall along the East River, adjacent to the Whitestone Bridge, was inspected during low and high tide. Debris and sediment were noted in the area around the structure (Photo 7 and 8).

- In the Ferry Point Community Park, along the fence line that bounds the park and golf course, a section of temporary fence is still present after being previously vandalized (Photo 9). A previously downed area of fence has been repaired (Photo 10). The Concessionaire was made aware and is to repair these areas of fencing.

Per the direction of previous reports, GEI communicated all field observations to the Concessionaire. The Concessionaire assured they will continue to monitor drainage and vegetative conditions on Site. Areas outside of the Concessionaire's maintenance responsibility shall be addressed by New York City Department of Parks & Recreation Maintenance and Operations (NYCDPR M&O).

If you have any questions, please feel free to contact me at (347) 514–3861.

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Site Map with Inspection Observations
Photo Log of Final Cover System Observations
Cover System Inspection Summary Table

c: K. Zias, NYCDPR

K. McCarty, GEI

SOURCE:
1. ESRI IMAGERY BASE MAP

0 450 900
SCALE: 1 " = 620 '

Ferry Point Park Bronx, New York Cover Inspection Report	GEI Consultants	QUATER 2 INSPECTION LOCATIONS
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	July 2023 Fig. 1

Photo Log
Quarterly Final Cover System Infrastructure Inspection - Quarter 2, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Photo 1: Looking northeast, the Concessionaire replaced the vent trench mulch in April 2023.

Photo 2: Looking northwest, well maintained sand cart path adjacent to Hole 12.

Photo 3: Looking west, area fronting the Clubhouse requiring vegetation stabilization.

Photo 4: Looking north, area of sand path washout onto paved cart path.

Photo 5: Looking southwest, area drain clogged with topsoil. Clogged drains present at Hole 1 and 15.

Photo 6: Looking southwest, previously reseeded area showing vegetative regeneration.

Photo 7: Looking northwest, condition of the outfall during high tide.

Photo 8: Looking northwest, condition of the outfall during low tide.

Photo 9: Looking southwest, temporary fencing present after previous vandalism.

Photo 10: Looking southwest, area of previously downed fence, now repaired.

Cover System Inspection Summary Table
Date: As of 6/26/2023

Deficiency	Location(s)	Photo No.	Notification & Resolution		
			Concessionaire	NYCDPR M&O	Expected Completion
Vent trench mulch	None	1	x		New mulch added in April 2023
Animal burrow	None		x		Addressed on rolling basis
Sparse vegetation	3	3	x		Addressed on rolling basis
Sand erosion along cart path	14	4	x		Addressed on rolling basis
Clogged area drains	6	5	x		Addressed on rolling basis
Outfall structure	None	7 & 8		x	
Other: Community Park fence repair	1	9 & 10	x		TBD
Other:	N/A				

July 14, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Re: First (1 of 2) Semi-Annual 2023 Parking Lot Pavement Inspection Report
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

Dear Ms. Catalanotto:

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the parking lot asphalt inspection event conducted in June 2023 at the Ferry Point Park Golf Course. Semi-annual parking lot inspections assess the condition of the asphalt surface in the Ferry Point Park Golf Course (Golf Course) Clubhouse parking lot and determine if the asphalt surface is functioning as an effective landfill cover system. Inspections are conducted in compliance with Sections 3.3.2 and 3.4 of the October 2013 *Post Construction Custodial Care Plan* and Paragraph 6, Appendix A of NYSDEC Order of Consent, Case No. R2-20100521-172 dated January 10, 2011.

On June 27, 2023, GEI mobilized to Site to conduct the first (1 of 2) 2023 semi-annual asphalt inspection of the Clubhouse parking lot. The last semi-annual asphalt inspection was completed in December 2022. Observations noted during the June 2023 inspection event are included below:

- The majority of the Golf Course Clubhouse Parking Lot was accessible and visible, except for Location 22. Location 22 was inaccessible due to the placement of storage units. This observation is consistent with the asphalt cover inspections dating back to June 2019.

- Longitudinal cracking was observed in the asphalt surface in the locations noted on Figure 2. The majority of crack depths ranged between 0.25 and

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4.00 inches, and the majority of crack widths ranged between 0.125 and 1.50 inches.

Based on observations from the June 2023 inspection, GEI concludes that the Clubhouse Parking Lot asphalt surface is functioning as a suitable landfill cover system, providing an exposure barrier between the public and subsurface materials. The observed crack depths and widths appear to be surficial in nature and do not penetrate through the full asphalt cap. Additionally, a minimum of two (2) feet of clean material is located underneath the asphalt surface and above the landfill surface in the northern portion of the Clubhouse Parking Lot where the cracks were observed.

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Site Location Map
Figure 2 – Observation Location Map
Table 1 - Summary of Asphalt Crack Measurements
Photographic Log

c: K. Zias, NYCDPR
K. McCarty, GEI

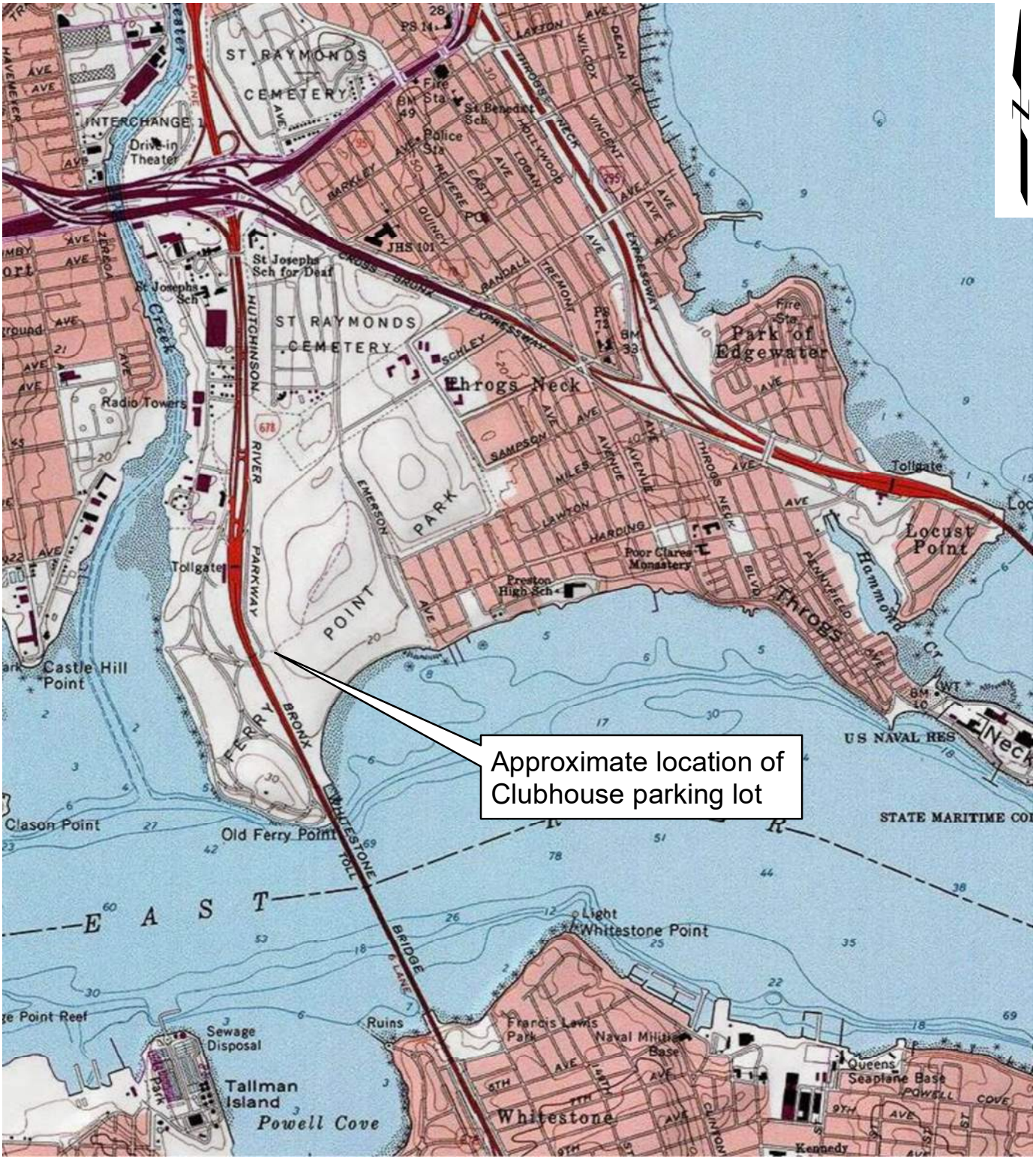

SOURCE:
1. ESRI IMAGERY BASE MAP

0 1,400 2,800
SCALE: 1 " = 2,000 '

Ferry Point Park Bronx, New York Semi-Annual Parking Lot Pavement Inspection	GEI Consultants	SITE LOCATION
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	July 2023 Fig. 1

B:\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\Reports\Asphalt Inspections\GEI Inspections\First Half 2023\Figure 1 - Site Location.mxd

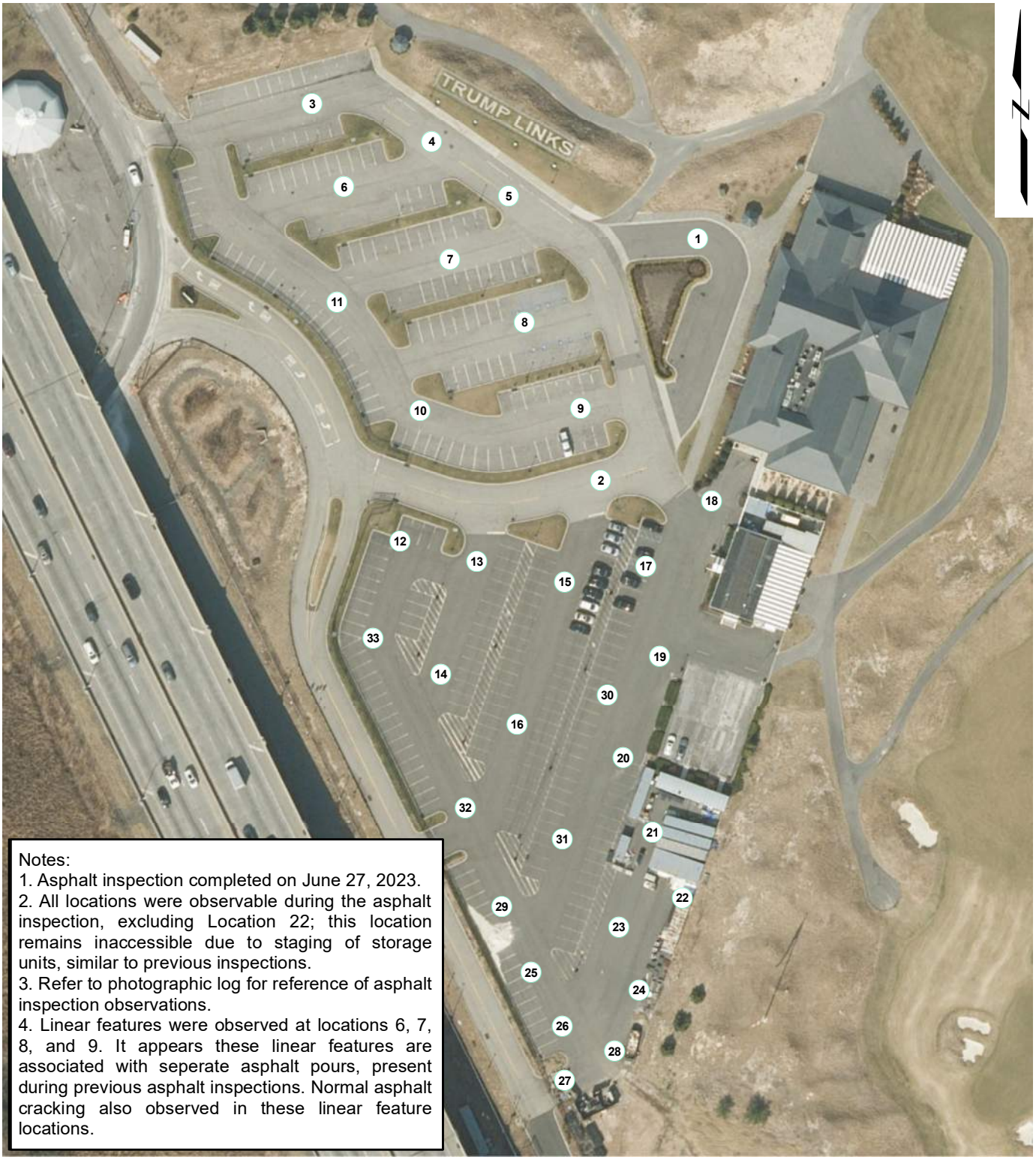

Notes:
1. Asphalt inspection completed on June 27, 2023.
2. All locations were observable during the asphalt inspection, excluding Location 22; this location remains inaccessible due to staging of storage units, similar to previous inspections.
3. Refer to photographic log for reference of asphalt inspection observations.
4. Linear features were observed at locations 6, 7, 8, and 9. It appears these linear features are associated with seperate asphalt pours, present during previous asphalt inspections. Normal asphalt cracking also observed in these linear feature locations.

SOURCE:
1. ESRI IMAGERY BASE MAP

0 80 160
SCALE: 1 " = 110 '

Ferry Point Park Bronx, New York Semi-Annual Parking Lot Pavement Inspection	GEI Consultants	ASPHALT SURFACE CRACK LOCATIONS
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	July 2023 Fig. 2

B:\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\Reports\Asphalt Inspections\GEI Inspections\First Half 2023\Figure 2 - Asphalt Surface Crack Locations.mxd

Table 1
Summary of Asphalt Crack Measurements
June 26, 2023
Ferry Point Park Golf Course
Bronx, NY

Crack ID	Crack Width (in)	Crack Depth (in)	Solid Bottom	Notes
1	0.125 - 0.25	0.125 - 0.50	Y	
2	0.125 - 0.50	0.125 - 3.00	Y	
3	0.125 - 0.50	0.125 - 2.125	Y	
4	0.125 - 0.50	0.125 - 2.00	Y	
5	0.125 - 0.50	0.125 - 3.00	Y	
6	0.125 - 0.50	0.125 - 1.25	Y	
7	0.125 - 0.25	0.125 - 2.00	Y	
8	0.125 - 0.50	0.125 - 1.75	Y	
9	0.125 - 1.50	0.125 - 2.75	Y	
10	0.125 - 0.75	0.125 - 2.125	Y	
11	0.125 - 1.50	0.125 - 4.00	Y	
12	0.125 - 0.50	0.125 - 2.25	Y	
13	0.125 - 0.50	0.125 - 1.50	Y	
14	0.125 - 0.50	0.125 - 2.00	Y	
15	0.125 - 0.50	0.125 - 2.50	Y	
16	0.125 - 0.50	0.125 - 1.50	Y	
17	0.125 - 0.50	0.125 - 2.00	Y	
18	0.125 - 1.125	0.125 - 3.00	Y	
19	0.125 - 0.25	0.125 - 1.50	Y	
20	0.125 - 1.00	0.125 - 1.125	Y	
21	0.125 - 0.50	0.125 - 1.50	Y	
22	-	-	-	Inaccessible - Covered by storage containers
23	0.125 - 0.50	0.125 - 2.25	Y	
24	0.125 - 0.75	0.125 - 2.25	Y	
25	0.125 - 0.50	0.125 - 2.00	Y	
26	0.125 - 1.00	0.125 - 1.00	Y	
27	0.125 - 1.50	0.125 - 2.00	Y	
28	0.125 - 1.50	0.125 - 3.50	Y	
29	0.125 - 1.00	0.125 - 2.00	Y	
30	0.125 - 0.50	0.125 - 2.00	Y	
31	0.125 - 1.00	0.125 - 2.00	Y	
32	0.125 - 0.50	0.125 - 1.75	Y	
33	0.125 - 0.50	0.125 - 2.50	Y	

Photographic Log

Photo 1	Location 1	6/27/2023

Photo 2	Location 6	6/27/2023

Photo 3	Location 9	6/27/2023

Photographic Log

Photo 4	Location 13	6/27/2023

Photo 5	Location 16	6/27/2023

Photo 6	Location 18	6/27/2023

Photographic Log

Photo 7	Location 24	6/26/2023

Photo 8	Location 27	6/26/2023

Photo 9	Location 31	6/27/2023

Appendix B

Groundwater Sampling Summary Report – 2023 Sampling Event

NYSDEC Groundwater Sampling Reduction in Frequency Letter

August 9, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: Groundwater Sampling Summary Report – 2023 Sampling Event
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the groundwater sampling event conducted on April 25 - 26, 2023, at the Ferry Point Park Golf Course. Groundwater sampling was performed in compliance with the New York State Department of Environmental Conservation (NYSDEC) Permit No. 2-6006-00014/00013, the October 2013 *Post Construction Custodial Care Plan*, and the NYSDEC letter dated January 7, 2020, in which the groundwater monitoring frequency was approved to be reduced from annually to biennially.

Groundwater Sampling Methodology

GEI mobilized to the Ferry Point Golf Course on April 25 – 26, 2023 to collect groundwater samples from three (3) piezometers and five (5) groundwater monitoring wells (**Figure 1**). Consistent with previous monitoring events, PZ-01 and PZ-02 were sampled in place of historic monitoring wells GMW-3 and GMW-4 due to their abandonment during golf course construction activities. Additionally, PZ-15 was sampled in place of GMW-6 due to heavily overgrown vegetation and the inability to locate the historic monitoring well. These piezometers were previously chosen and sampled by Woodard & Curran during the 2018, 2019 and 2021 sampling events after confirmation that the piezometers are screened at similar intervals and elevations that the former groundwater monitoring wells were. GEI was also unable to locate GMW-8 and GMW-9, which were previously reported to be dry and unable to be sampled by Woodard & Curran during the 2018, 2019 and 2021 sampling events.

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Prior to collecting groundwater samples at the accessible piezometers and monitoring wells, the depth to groundwater and the total well depths were measured at each of the locations using an interface probe attached to a measuring tape, accurate to 0.01 foot. A groundwater contour map is included as **Figure 2** and the groundwater elevation readings are provided on **Table 1**.

Following gauging, the groundwater monitoring wells and piezometers were sampled in accordance with the September 19, 2011 "Field Sampling Procedures for Ferry Point Site" Technical Memorandum prepared by Ecology & Environment Inc. Prior to sample collection, three (3) to five (5) well volumes were purged from the wells using a dedicated polyethylene bailer, with the purged water being stored in a 55-gallon drum staged on Site. Field parameter readings were monitored during purging activities and included measurements for temperature, pH, oxidation reduction potential (ORP), specific conductivity, dissolved oxygen (DO), and turbidity. Groundwater purge and sampling logs are included in **Appendix B**. The drum was disposed of off-site on June 27, 2023, at Dale Transfer Corporation in West Babylon, NY via AARCO Environmental Services. Drum disposal documentation is included in **Appendix C**.

Groundwater samples collected during the sampling event were properly transported to CHEMTECH, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory under chain-of-custody procedures and analyzed for the following:

- Total (unfiltered) and dissolved (lab-filtered) Target Analyte List (TAL) metals;
- Target Compound List (TCL) Semi-Volatile Organic Compounds (SVOCs);
- TCL Volatile Organic Compounds (VOCs);
- Alkalinity;
- Biological Oxygen Demand (BOD);
- Total Dissolved Solids (TDS);
- Chloride, bromide, sulfate, nitrate, nitrite;
- Color;
- Phenolics;
- Cyanide;
- Chemical Oxygen Demand (COD);
- pH;
- Hardness;
- Total Kjeldahl Nitrogen (TKN);
- Ammonia; and
- Total Organic Carbon (TOC).

In addition to the groundwater samples, quality assurance/quality control (QA/QC) samples including trip blanks, a field blank, a field duplicate, and a matrix spike/matrix spike duplicate (MS/MSD) were collected during the sampling event.

Groundwater Analytical Results

Groundwater analytical data is provided in **Table 2**, and the laboratory reports are included in **Appendix D**. Groundwater analytical results were compared to NYSDEC Technical and Operational Guidance Series (TOGS) Ambient Water Quality Standards (AWQS) for Class GA. The analytical results of groundwater samples are summarized below:

Volatile Organic Compounds (VOCs)

- Common laboratory contaminants, acetone, 2-Butanone, methylene chloride, and carbon disulfide, were detected in multiple groundwater samples (GMW-1, GMW-11, PZ-15, GMW-10, GMW-7, PZ-01, PZ-02, GMW-X [the duplicate sample of GMW-11], GMW-5, trip blank and field blank) but mostly at concentrations below their respective NYSDEC AWQS. Acetone was detected in exceedance of its AWQS in GMW-1.

- Numerous VOCs typical of landfill operations, including cis-1,2-Dichloroethene, 1,4-Dichlorobenzene, isopropylbenzene (cumene), and benzene were detected in groundwater samples collected from PZ-01, GMW-1, PZ-15, GMW-10, GMW-X (the duplicate sample of GMW-11), and at concentrations well below their respective NYSDEC AWQS.

- Trichloroethene was detected in PZ-01 and GMW-5 well below its NYSDEC AWQS. However, trichloroethene was also detected in the trip blank at similar levels to those reported at PZ-01 and GMW-5, indicating potential cross-contamination during the shipping and/or handling process. Trichloroethene has not been detected in any samples during the 2018, 2019 or 2021 sampling events.

- Chlorobenzene, a common waste byproduct from the production of chlorinated solvents and pesticides, was detected above the NYSDEC AWQS in PZ-15. Chlorobenzene was also detected in GMW-1 and GMW-10, but below the NYSDEC AWQS. This is consistent with previous sampling events.

Semi-Volatile Organic Compounds (SVOCs)

- Naphthalene, a contaminant typically found at or around landfills, was detected at GMW-11 and its duplicate, GMW-X, at levels in exceedance of

its NYSDEC AWQS. This is consistent with concentrations detected at this location during post-closure sampling events.

- Carbazole, generally released into the environment from sources such as waste incineration and/or rubber, petroleum, coal and wood combustion, was detected in GMW-11 and its duplicate, GMW-X, however, there is no NYSDEC AWQS criteria to be met for this compound.

Metals – Total (unfiltered) and Dissolved (lab-filtered)

- Total heavy metals including arsenic, cobalt, silver, and zinc were detected in various samples below their respective NYSDEC AWQS.
- Total antimony was detected above the NYSDEC AWQS in samples collected from PZ-01 and PZ-02. Antimony was also detected in GMW-11, GMW-1, GMW-10, and GMW-7 below the AWQS. Antimony was not detected in the dissolved phase.
- Barium was detected above its NYSDEC AWQS in PZ-02 (total), GMW-1 (total and dissolved) and PZ-15 (total). Barium (total and dissolved) was also detected in all other collected samples at concentrations below the AWQS.
- Total cadmium was detected above the NYSDEC AWQS in the sample collected from PZ-15. Cadmium was also detected in other locations both in the total and dissolved phase, but below its AWQS.
- The sample collected form PZ-15 had reported exceedances of total chromium above the NYSDEC AWQS. PZ-01, PZ-02, GMW-11, GMW-X (the duplicate sample of GMW-11), GMW-5, GMW-1, GMW-10, and GMW-7 all had chromium reported below its AWQS. Chromium in the dissolved phase was either non-detect or present in low levels.
- Total copper exceedances of the AWQS were detected in PZ-01 and PZ-15 samples and below the AWQS in the dissolved phase. Copper was also detected in other samples below the AWQS (total and dissolved).
- Total iron was detected above its NYSDEC AWQS in all groundwater samples. Dissolved iron was only present in PZ-01 and GMW-1 in exceedance of its respective AWQS.
- Total lead was reported above its AWQS in all samples except GMW-5, however dissolved lead was non-detect in all collected samples.
- Samples collected from PZ-01, PZ-02, GMW-11, GMW-X (the duplicate sample of GMW-11), PZ-15 and GMW-10 detected total manganese above its AWQS, but only in exceedance in the dissolved phase in PZ-01 and GMW-10.

- Total mercury was detected above its NYSDEC AWQS in PZ-02 and PZ-15, with detections below the AWQS in several other samples. Dissolved mercury was non-detect in all collected samples.
- PZ-15 reported a concentration for total nickel above the AWQS but non-detect in the dissolved phase.
- Sodium was reported above its respective NYSDEC AWQS (total and dissolved) for all groundwater samples excluding GMW-5 and GMW-10.

Phenolics

- Phenolics were detected in GMW-11 and its duplicate sample, GMW-X, however there is no NYSDEC AWQS to be met. Phenolics were non-detect in all other groundwater samples.

Cyanide

- Cyanide was detected above its NYSDEC AWQS in PZ-15 and GMW-10. In prior sampling events, cyanide concentrations were either non-detect or less than 10 ug/l in the aforementioned locations. Cyanide was also present in all other groundwater samples below the AWQS. The presence of cyanide is generally consistent with other previous post-closure monitoring events, however, exceedances of the AWQS were only reported during the 2023 sampling event.

Anions

- Bromide was detected in PZ-02, GMW-1 and PZ-15 at concentrations below its respective AWQS.
- Chloride was detected in all samples collected at concentrations below its respective AWQS.
- Nitrate was detected in PZ-01, GMW-11, PZ-15 and GMW-7 at concentrations below its respective AWQS.
- Sulfate was detected in GMW-11 and its duplicate (GMW-X) at concentrations exceeding its AWQS. Sulfate was also detected in all other samples at concentrations below the AWQS.

Conclusions

Results from the groundwater sampling event conducted on April 25-26, 2023, indicate that groundwater flow direction and elevation have remained consistent across the Site. A review of the groundwater contours included in Figure 4 from the 2021 sampling event indicate that the groundwater elevation and flow are consistent with 2023 data.

The analytical results for samples collected during the April 2023 sampling event indicate that the groundwater in certain locations beneath Site contains VOCs, SVOCs, metals, ammonia, sulfate and cyanide above NYSDEC AWQS. With the exception of cyanide, the April 2023 event detections of VOCs, SVOCs, metals, and phenolics are generally consistent in location and/or concentration with previous sampling events. GEI suggests continued monitoring of cyanide concentrations for exceedances during future sampling events.

Similar to the 2021 sampling event, chlorobenzene was detected in PZ-15 at a concentration exceeding the NYSDEC AWQS. The concentration of chlorobenzene detected at this location during the April 2023 event is overall consistent with the previous sampling events conducted in 2021 and 2019. Other VOCs such as acetone, 2-Butanone, methylene chloride, and carbon disulfide were also detected, however, these compounds are known to be laboratory contaminants.

One or more metals (total [unfiltered] and dissolved [lab-filtered]) were detected in exceedance of their respective NYSDEC AWQS in all samples collected across the Site. The reported elevated metal concentrations for the 2023 event are consistent with locations and concentrations with previous post-closure sampling events.

Certain SVOCs (including Dimethylphthalate, Di-n-butylphthalate, Acenaphthene) were detected during the 2021 sample event but are now non-detect.

The results of samples collected from PZ-01, PZ-02, and PZ-15 during the 2023 sampling event are consistent with the results reported for the 2021 and 2019 sample events, suggesting they are still acceptable sample location substitutions for missing/abandoned ground water monitoring wells GMW-3, GMW-4, and GMW-6.

Based on the results of the most recent groundwater sampling event and review of previous events, GEI recommends to NYCDPR that the following requests be made to NYSDEC for future post-closure groundwater quality monitoring events:

1. Terminate VOC monitoring from all sampling locations except PZ-15 where chlorobenzene continues to be detected at concentrations in exceedance of its respective AWQS of 5 ug/l. All other locations have either been reported as non-detect or below the AWQS during the 2019, 2021 and 2023 sampling events.

2. Terminate SVOC monitoring from all sampling locations except GMW-11 where naphthalene continues to be detected at concentrations either just below or in exceedance of its respective AWQS of 10 ug/l. All other locations have either been reported as non-detect or below the AWQS during the 2019, 2021 and 2023 sampling events.

3. Terminate total (unfiltered) metals monitoring from all sampling locations. It is suspected that the total metals concentrations are likely associated with high turbidity (as noted in the sampling logs) and particulates in the monitoring wells/piezometers and does not reflect accurate groundwater concentrations.

4. Continue groundwater analysis of dissolved (lab-filtered) metals, general chemistry, phenolics, anions, and cyanide for all sampling locations.

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Groundwater Sample Location Plan
Figure 2 – April 2023 Groundwater Contour Map

Table 1 – Summary of April 25-26, 2023, Piezometer and Groundwater Well Gauging Results
Table 2 – Summary of Groundwater Analytical Results
Appendix A – NYSDEC Letter to Reduce Groundwater Monitoring Frequency
Appendix B – Groundwater Sampling Forms
Appendix C – Drum Disposal Documentation
Appendix D – Laboratory Reports

c: K. Zias, NYCDPR
K. McCarty, GEI

Figures

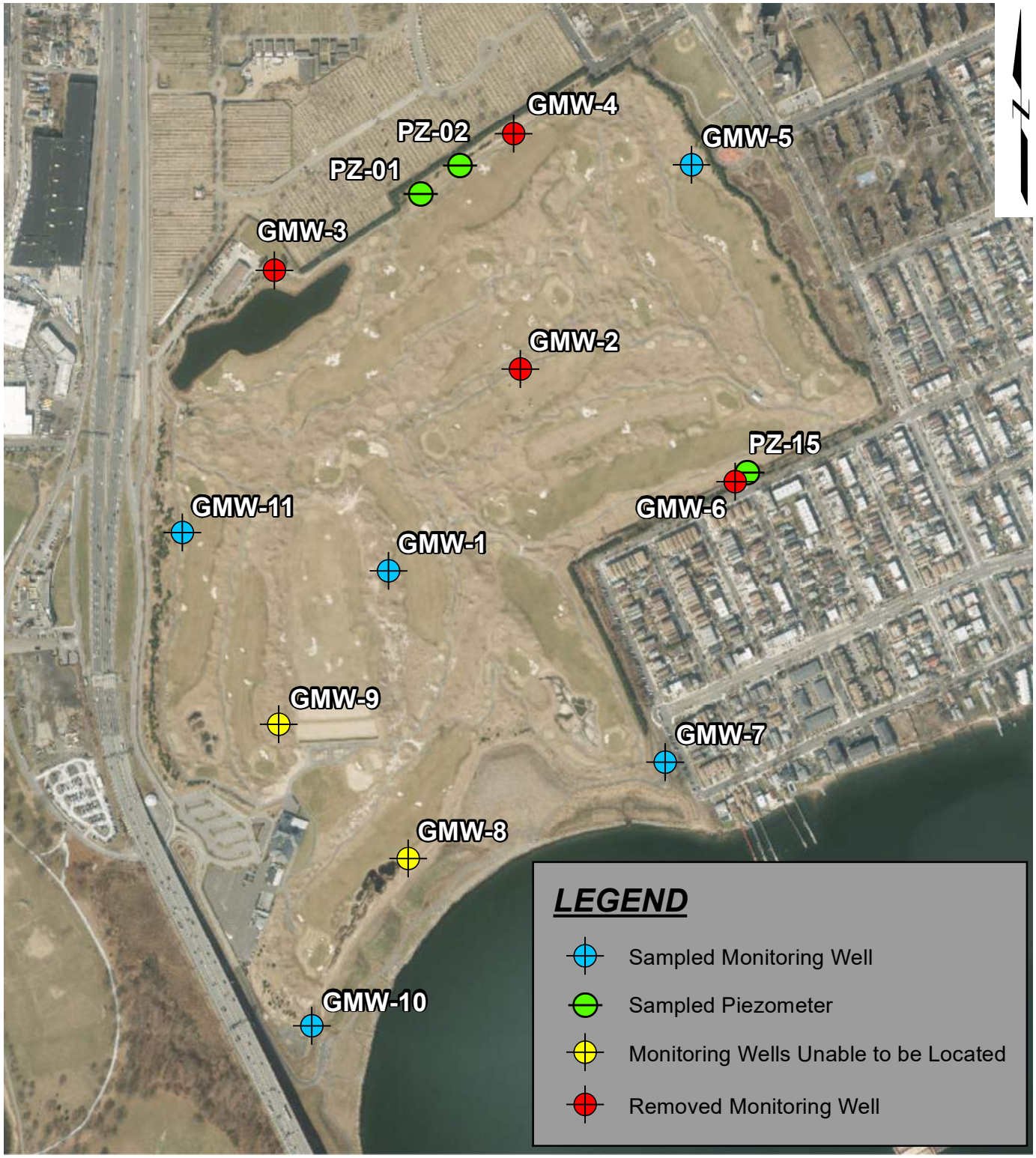

SOURCE:
1. ESRI IMAGERY BASE MAP

0 480 960
SCALE: 1 " = 656 '

Ferry Point Park Bronx, New York Groundwater Sampling	GEI Consultants	GROUNDWATER MONTIORING LOCATIONS
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	Fig. 1

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SOURCE:
1. ESRI IMAGERY BASE MAP

0 130 260
SCALE:1" = 181'

Ferry Point Park Bronx, New York Groundwater Sampling	GEI Consultants	APRIL 2023 GROUNDWATER CONTOUR MAP
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project 2204594	Fig. 2

Tables

Table 1
Summary of April 24-26, 2023 Piezometer and Groundwater Well Gauging Results
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Monitoring Location ID	Top of Casing Elevation (feet)	Measured Depth to Water (ft bToC)	Groundwater Elevation (feet)
PZ-1	24.63	20.09	4.54
PZ-2	23.49	19.92	3.57
PZ-3	21.89	18.71	3.18
PZ-4	21.10	16.53	4.57
PZ-5	15.72	11.31	4.41
PZ-6	16.73	9.78	6.95
PZ-7	16.99	11.24	5.75
PZ-8	17.87	9.12	8.75
PZ-9	18.89	9.81	9.08
PZ-10	18.59	9.98	8.61
PZ-11	17.68	Could not locate	
PZ-12	16.96	10.21	6.75
PZ-13	9.67	2.60	7.07
PZ-14	10.82	3.41	7.41
PZ-15	9.26	3.11	6.15
PZ-16	9.80	2.55	7.25
PZ-17	9.38	2.65	6.73
PZ-18	14.42	7.59	6.83
PZ-19	16.29	9.26	7.03
PZ-20	11.68	7.12	4.56
PZ-21	14.46	11.96	2.50
PZ-22	13.58	12.45	1.13
PZ-23	16.46	12.92	3.54
PZ-25	23.54	19.87	3.67
GMW-1	39.59	26.81	12.78
GMW-2	33.22	Well Lost	
GMW-3	24.55	Well Lost	
GMW-4	20.08	Well Lost	
GMW-5	22.28	6.40	15.88
GMW-6	7.73	Well Lost	
GMW-7	12.58	8.98	3.60
GMW-8	17.33	Could not locate	
GMW-9	29.94	Could not locate	
GMW-10	13.49	9.99	3.50
GMW-11	31.98	15.36	16.62

ft bToC - feet below top of casing
Could not locate PZ-11 (within Community Park) due to overgrown vegetation

Table 2
Summary of 2023 Post-Closure Ground Water Analytical Results
Ferry Point Park Golf Course
New York City Department of Parks and Recreation

Sample ID	NY TOGS Class GA AWQS	PZ-01	PZ-02	GMW-11	GMW-X	GMW-5	TRIP BLANK	GMW-1	PZ-15	GMW-10	GMW-7	TB-2	FB
Sampling Date		4/25/2023	4/25/2023	4/25/2023	4/25/2023	4/25/2023	4/25/2023	4/26/2023	4/26/2023	4/26/2023	4/26/2023	4/26/2023	4/26/2023
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Volatile Organic Compounds (VOCs)													
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichlorotrifluoroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Acetone	50	**17.7**	**5.5**	5 U	**2.6** J	**9.9**	**2.4** J	**280**	**10.9**	**6.4**	**2.8** J	5 U	**2.4** J
Carbon Disulfide	60	1 U	1 U	**0.61** J	**0.72** J	1 U	1 U	1 U	**0.35** J	1 U	1 U	1 U	1 U
Methyl tert-butyl Ether	10	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Acetate	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.68** J
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	50	5 U	5 U	5 U	5 U	5 U	5 U	**1.9** J	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	**0.22** J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylcyclohexane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	1 U	1 U	**0.21** J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	**0.5** J	1 U	1 U	1 U	**0.77** J	**0.6** J	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-Pentanone	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
t-1,3-Dichloropropene	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	**3.3**	**12.5**	**0.37** J	1 U	1 U	1 U
Ethyl Benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	NS	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 2
Summary of 2023 Post-Closure Ground Water Analytical Results
Ferry Point Park Golf Course
New York City Department of Parks and Recreation

Sample ID	NY TOGS Class GA AWQS	PZ-01	PZ-02	GMW-11	GMW-X	GMW-5	TRIP BLANK	GMW-1	PZ-15	GMW-10	GMW-7	TB-2	FB
Sampling Date		**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**
Matrix		**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Units	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**
Bromoform	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.44** J	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	**0.88** J	**1.1**	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Semi-Volatile Organic Compounds (SVOCs)													
Benzaldehyde	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
Phenol	1	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
bis(2-Chloroethyl)ether	1	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Chlorophenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Methylphenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,2-oxybis(1-Chloropropane)	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Acetophenone	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
3+4-Methylphenols	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
n-Nitroso-di-n-propylamine	NS	2.5 U	2.5 U	2.5 U	2.5 U	2.6 U	--	2.5 U	2.5 U	2.5 U	2.5 U	--	2.5 U
Hexachloroethane	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Nitrobenzene	0.4	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Isophorone	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Nitrophenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,4-Dimethylphenol	1	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
bis(2-Chloroethoxy)methane	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,4-Dichlorophenol	1	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Naphthalene	10	5 U	5.1 U	**11.8**	**11.6**	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
4-Chloroaniline	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Hexachlorobutadiene	0.5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Caprolactam	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
4-Chloro-3-methylphenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Methylnaphthalene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Hexachlorocyclopentadiene	5	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
2,4,6-Trichlorophenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,4,5-Trichlorophenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
1,1-Biphenyl	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Chloronaphthalene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Nitroaniline	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Dimethylphthalate	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Acenaphthylene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,6-Dinitrotoluene	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
3-Nitroaniline	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Acenaphthene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U

Table 2
Summary of 2023 Post-Closure Ground Water Analytical Results
Ferry Point Park Golf Course
New York City Department of Parks and Recreation

Sample ID	NY TOGS Class GA AWQS	PZ-01	PZ-02	GMW-11	GMW-X	GMW-5	TRIP BLANK	GMW-1	PZ-15	GMW-10	GMW-7	TB-2	FB
Sampling Date		**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**
Matrix		**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Units	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**
2,4-Dinitrophenol	1	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
4-Nitrophenol	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
Dibenzofuran	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,4-Dinitrotoluene	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Diethylphthalate	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
4-Chlorophenyl-phenylether	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Fluorene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
4-Nitroaniline	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
4,6-Dinitro-2-methylphenol	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
n-Nitrosodiphenylamine	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
4-Bromophenyl-phenylether	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Hexachlorobenzene	0.04	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Atrazine	7.5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Pentachlorophenol	1	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
Phenanthrene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Anthracene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Carbazole	NS	5 U	5.1 U	**2.7** J	**3** J	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Di-n-butylphthalate	50	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Fluoranthene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Pyrene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Butylbenzylphthalate	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
3,3-Dichlorobenzidine	5	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
Benzo(a)anthracene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Chrysene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Bis(2-ethylhexyl)phthalate	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Di-n-octyl phthalate	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
Benzo(b)fluoranthene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Benzo(k)fluoranthene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Benzo(a)pyrene	ND	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Indeno(1,2,3-cd)pyrene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Dibenzo(a,h)anthracene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Benzo(g,h,i)perylene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
1,2,4,5-Tetrachlorobenzene	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
1,4-Dioxane	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,3,4,6-Tetrachlorophenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Total Metals (unfiltered)													
Aluminum	NS	**2650**	**5240**	**19300**	**17500**	**873**	--	**693**	**140000**	**561**	**2230**	--	50 U
Antimony	3	**3.47** J	**4.92** J	**2.22** J	25 U	25 U	--	**2.29** J	25 U	**2.86** J	**2.16** J	--	25 U
Arsenic	25	**6.06** J	**20.1**	**7.15** J	**7.38** J	10 U	--	10 U	**15.2**	**6.65** J	10 U	--	10 U
Barium	1000	**545**	**2380**	**254**	**234**	**36.6** J	--	**2370**	**2260**	**392**	**290**	--	50 U
Beryllium	NS	**0.32** J	**0.92** J	**1.04** J	**0.92** J	3 U	--	**0.29** J	**6.6**	**0.2** J	3 U	--	3 U
Cadmium	5	**2.96** J	**2.84** J	**0.49** J	**0.37** J	**3.51**	--	**1.11** J	**11.9**	**0.7** J	**1.47** J	--	3 U
Calcium	NS	**129000**	**101000**	**91200**	**86100**	**67900**	--	**123000**	**137000**	**153000**	**145000**	--	**50.4** J

Table 2
Summary of 2023 Post-Closure Ground Water Analytical Results
Ferry Point Park Golf Course
New York City Department of Parks and Recreation

Sample ID	NY TOGS Class GA AWQS	PZ-01	PZ-02	GMW-11	GMW-X	GMW-5	TRIP BLANK	GMW-1	PZ-15	GMW-10	GMW-7	TB-2	FB
Sampling Date		4/25/2023	4/25/2023	4/25/2023	4/25/2023	4/25/2023	4/25/2023	4/26/2023	4/26/2023	4/26/2023	4/26/2023	4/26/2023	4/26/2023
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Chromium	50	11.8	23.2	33	31.9	1.83 J	--	6.13	369	3.09 J	9.98	--	0.85 J
Cobalt	NS	3.58 J	12 J	12.8 J	12.1 J	15 U	--	1.49 J	170	1.45 J	2.59 J	--	15 U
Copper	200	351	186	92	76.1	13.3	--	34.4	293	58.8	61.7	--	10 U
Iron	300	14000	35900	26200	25300	1930	--	26700	239000	16500	4730	--	50 U
Lead	25	238	451	205	193	19.2	--	45.7	170	66	49.5	--	6 U
Magnesium	NS	13100	29600	8300	7490	5990	--	27400	69900	23700	26900	--	1000 U
Manganese	300	761	440	442	401	189	--	174	8080	894	249	--	0.88 J
Mercury	0.7	0.39	0.74	0.57	0.49	0.2 U	--	0.21	0.87	0.2 U	0.083 J	--	0.2 U
Nickel	100	21.3	43.1	41.9	39.9	4.64 J	--	4.98 J	564	12.2 J	20	--	20 U
Potassium	NS	16600	42800	33100	33200	8000	--	23900	47000	35300	20900	--	1000 U
Selenium	10	10 U	10 U	10 U	10 U	10 U	--	10 U	5.9 J	10 U	10 U	--	10 U
Silver	50	1.43 J	8.06	5.18	4.86 J	5 U	--	4.96 J	37.9	5 U	5 U	--	5 U
Sodium	20000	26500	129000	55800	56000	5930	--	60900	29800	14400	32800	--	240 J
Thallium	NS	20 U	20 U	20 U	20 U	20 U	--	20 U	20 U	20 U	20 U	--	20 U
Vanadium	NS	8.59 J	26.8	48.3	44.2	12.1 J	--	24	313	22.1	4.55 J	--	20 U
Zinc	5000	592	1070	235	234	24.4	--	98.8	519	86	185	--	2.17 J
Dissolved Metals (lab-filtered)													
Aluminum	NS	124	112	108	112	50 U	--	141	80.5	147	145	--	50 U
Antimony	3	25 U	25 U	25 U	25 U	25 U	--	25 U	25 U	25 U	25 U	--	25 U
Arsenic	25	10 U	10 U	3.95 J	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U
Barium	1000	429	570	50	42.8 J	15.7 J	--	1630	291	320	233	--	9.56 J
Beryllium	NS	3 U	3 U	3 U	3 U	3 U	--	3 U	3 U	3 U	3 U	--	3 U
Cadmium	5	3 U	3 U	3 U	3 U	3 U	--	0.11 J	3 U	0.11 J	0.23 J	--	0.28 J
Calcium	NS	117000	88200	83000	78700	13300	--	104000	61300	146000	137000	--	1900
Chromium	50	5 U	1.29 J	0.82 J	5 U	5 U	--	1.11 J	5 U	5 U	5 U	--	5 U
Cobalt	NS	0.81 J	1.63 J	15 U	15 U	15 U	--	0.47 J	2.49 J	15 U	0.84 J	--	15 U
Copper	200	25.4	28.3	10 U	10 U	10 U	--	35.7	10.4	23.9	22.3	--	10 U
Iron	300	646	92.2	50 U	50 U	50 U	--	361	62.4	27 J	24.9 J	--	32.2 J
Lead	25	6 U	6 U	6 U	6 U	6 U	--	6 U	6 U	6 U	6 U	--	6 U
Magnesium	NS	12900	23300	1920	1720	1360	--	30100	43700	23900	25800	--	41.9 J
Manganese	300	433	228	6.06 J	4.78 J	35.9	--	76.3	41.7	702	207	--	31.6
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	0.2 U	0.2 U	0.2 U	0.2 U	--	0.2 U
Nickel	100	7.25 J	9.28 J	5.56 J	6.8 J	0.93 J	--	2.49 J	14 J	8.11 J	8.17 J	--	20 U
Potassium	NS	15900	31100	31500	31300	1530	--	27200	30900	35200	20500	--	1000 U
Selenium	10	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U
Silver	50	5 U	0.67 J	0.74 J	5 U	5 U	--	0.7 J	0.81 J	5 U	5 U	--	5 U
Sodium	20000	29000	86200	58200	58100	1120	--	69800	36400	15500	32800	--	763 J
Thallium	NS	20 U	20 U	20 U	20 U	20 U	--	20 U	20 U	20 U	20 U	--	20 U
Vanadium	NS	20 U	20 U	6.86 J	7.02 J	20 U	--	20 U	20 U	20 U	20 U	--	20 U
Zinc	5000	35.4	13.3 J	3.56 J	5.72 J	1.85 J	--	10.9 J	4.22 J	17 J	70.2	--	21.4
General Chemistry (ug/L)													
Hardness, Total	NS	376000	374000	262000	246000	194000	--	420000	630000	480000	473000	--	126 U
pH	NS	6.66	6.74	9.43	9.49	7.87	--	6.85	6.71	6.72	7.02	--	5.48

Table 2

Summary of 2023 Post-Closure Ground Water Analytical Results

Ferry Point Park Golf Course

New York City Department of Parks and Recreation

Sample ID	NY TOGS Class GA AWQS	PZ-01	PZ-02	GMW-11	GMW-X	GMW-5	TRIP BLANK	GMW-1	PZ-15	GMW-10	GMW-7	TB-2	FB
Sampling Date		**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**
Matrix		**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Units	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**
Chemical Oxygen Demand (COD)	NS	**140000**	**82000**	**55000**	**64000**	**126000**	--	**160000** D	**190000** D	**114000**	**15000**	--	10000 U
Biological Oxygen Demand (BOD5)	NS	**26600**	**14300**	**6360**	**3540**	**6460**	--	**95400**	**39200**	**8500**	**10200**	--	2000 U
Total Organic Carbon (TOC)	NS	**9900**	**17900**	**11000**	**11400**	**8900**	--	**28100** D	**30400** D	**26400** D	**7900**	--	**760** J
Total Kjiedahl Nitrogen (TKN)	NS	**5300**	**52600** D	**3500**	**4100**	**6900**	--	**13000** D	**49600** D	**520**	**4700**	--	500 U
Total Dissolved Solids (TDS)	NS	**508000**	**736000**	**528000**	**538000**	**332000**	--	**666000**	**773000**	**729000**	**658000**	--	10000 U
Ammonia as N	2000	**2600** D	**33800** D	**88** J	**210**	**210**	--	**13300** D	**56800** D	**1600**	**1500**	--	100 U
Phenolics	NS	50 U	50 U	**19** J	**21** J	50 U	--	50 U	50 U	50 U	50 U	--	50 U
Anions													
Bromide	2000	2000 U	**1200** J	2000 U	**750** J	2000 U	--	**900** J	**970** J	2000 U	2000 U	--	2000 U
Chloride	250000	**33000** D	**138000** D	**33900** D	**33900** D	**5700**	--	**44400** D	**38200** D	**19400** D	**21700** D	--	600 U
Nitrite	1000	600 U	600 U	600 U	600 U	600 U	--	600 U	600 U	600 U	600 U	--	600 U
Nitrate	10000	**200** J	500 U	**250** J	**200** J	500 U	--	500 U	**190** J	500 U	**1700**	--	500 U
Sulfate	250000	**34900**	**9400**	**289000** D	**292000** D	**2900** J	--	**1500** J	**3000**	**53000** D	**68000** D	--	3000 U
Nitrate+Nitrite	10000	**200** J	1100 U	**250** J	**200** J	1100 U	--	1100 U	**190** J	1100 U	**1700**	--	1100 U
Cyanide													
Cyanide	200	**27**	**140**	**42**	**4.7** J	**2.7** J	--	**35**	**340**	**220**	**10**	--	**1.4** J

Notes

-- - Not analyzed

N (Organics) - Presumptive Evidence of a Compound

N (Inorganics) - The matrix spike recovery was outside control limits

NS - No Standard

Bold - Indicates a detected concentration

Bold and shaded - Indicates an exceedance of TOGS GA Ambient Water Quality Standards

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

Q - Indicates LCS control criteria did not meet requirements.

Appendix A

NYSDEC Letter to Reduce Groundwater Monitoring Frequency

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4996 I F: (718) 482-6391
www.dec.ny.gov

January 7, 2020

Marty Rowland, Ph.D., P.E.
Senior Project Manager for Environmental Remediation
New York City Department of Parks and Recreation
Central Project Division, Environmental Unit
Olmstead Center
Flushing Meadows
Corona Park
Flushing, NY 11368

Re: Ferry Point Park Golf Course
Permit No. 2-6006-00014/00013
Post-Closure Groundwater Monitoring
Request for Cessation for Groundwater Monitoring

Dear Mr. Rowland,

New York State Department of Environmental Conservation (Department) staff have reviewed your November 20, 2019 request to terminate the Ferry Point Golf Course post-closure groundwater monitoring program This request is based on the relatively consistent ground water elevation and flow direction, the laboratory results from ground water samples collected during both pre-closure and post closure monitoring over an eight-year period of monitoring events, and the lack of any potential direct receptors or routes of exposure associated with ground water at Ferry Point Park.

After careful review of the post-closure groundwater monitoring program, the laboratory results from ground water samples collected during both pre-closure and post closure monitoring over an eight-year period of monitoring events and specific circumstances and history of this site, the Department cannot grant this request but rather the following frequency reduction to the Ferry Point Golf Course groundwater monitoring program can be implemented:

1) Starting immediately, the Ferry Point Golf Course groundwater monitoring frequency can be reduced from annual to once every two years through 2030.

2) After 2030, the Ferry Point Golf Course groundwater monitoring frequency can be modified from once every two years to once every five years indefinitely as custodial care consistent with Part 363-9.6(b).

If you have any questions you may contact me at 718-482-4996.

Sincerely,

Kenneth B. Brezner

Kenneth B. Brezner, P.E.
Regional Material Management Engineer

ec: J. O'Connell/W. Frank, DEC R2, DMM
S. Southwell, DEC R2, DOW
K. Zias, NYCDPR
S. Laura, Woodard and Curran

FPP_Post-Closure_Groundwater_Monitoring_request_for_Cessation.2020-01-07.Letter.docx

Appendix B

Groundwater Sampling Forms

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

Low-Flow Groundwater Sampling Form

Project number and name: Ferry Point | Sampling personnel: S.M. & E.S. (Preffered) | Sample date: 4/25/23 | Well ID: PZ-01

Well location description:

Well Construction

Well diameter: 2"

Well measurement point:

Roadbox condition:

Well screen interval:

Well depth: 22.54

Sampling Information

Initial depth to water: 21.12 Time: 08:03

Sample intake depth: 22

Pump type and ID: Bailer

Stabilized flow rate:

Stabilized flow rate = flow rate with no further drawdown

vol = 0.22 gal
0.0 ppm outer
0.0 ppm inner

Samples Collected

VOCs 8260 SIM	X
SVOCs 8270 SIM	X
Metals	X
M/E/E	
Nitrate/Sulfate	X
PCBs	
Other	X

WYS AWQS

Field values at time of sample collection:

Time:	08:49		Depth to water: 21.12
Sp.Cond.	0.633	uS/cm	
DO	18.2	mg/L	
ORP	122	mV	
pH	7.26	s.u.	
Temp.	17.41	°C	
Turb.	193	NTU	

Cumulative Time (min.)	Volume (L) gal	Water depth (ft)	Temp. (°C)	Sp.Cond. (uS/cm)	D.O. ~~(mg/L)~~ %	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	50 to 5000	0 to 4	5 to 7	-100 to +500	aim for <10
8:19 0	0.22	21.12	15.85	0.668	35.3	7.63	186	388
8:21 2	0.22	21.13	16.30	0.729	89.7	6.45	162	1000+
8:29 10	0.22	21.13	16.40	0.725	97.3	6.63	146	1000+
8:31 12	0.22	21.13	16.82	0.797	26.0	6.53	134	342
8:40 21	0.22	21.12	17.36	0.810	20.7	6.66	139	350

Sample Information:

Sample ID: PZ-01

Sample Date&Time: 4/25/23

Color: slightly murky (brown/gray sed)

Turbidity: 193

Field Filtered YES / NO (NO circled) Analyses:

Filter type:

Odor/Sheen/NAPL: N/A

Duplicate Collected YES / NO (NO circled)

If yes, duplicate ID:

Purge water disposal? to ground drummed (drummed circled) other: Treatment System

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:

Sp.Cond. +/- 10%
DO +/- 10%
ORP +/- 10 mV
pH +/- 10%
Temp. +/- 10%
Turb. <10 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Notes:

Low-Flow Groundwater Sampling Form

Project number and name: Ferry Point | Sampling personnel: S.M & F.S (proffered) | Sample date: 4/25/23 | Well ID: PZ-02

Well location description:

Well Construction

Well diameter: 2"

Well measurement point:

Roadbox condition:

Well screen interval:

Well depth: 22.75

Sampling Information

Initial depth to water: 19.93 Time: 9:30

Sample intake depth:

Pump type and ID: bailer

Stabilized flow rate:

Stabilized flow rate = flow rate with no further drawdown

vol = 0.46 gal
outer cap 0.0 ppm
inner cap 0.0 ppm

Samples Collected

VOCs 8260 SIM	X
SVOCs 8270 SIM	X
Metals	X
M/E/E	
Nitrate/Sulfate	X
PCBs	
Other	X

NYS AWQS

Field values at time of sample collection:

Time:	09:53	
Sp.Cond.	1.12	uS/cm
DO	22.6	mg/L
ORP	49	mV
pH	6.52	s.u.
Temp.	18.25	°C
Turb.	348	NTU

Depth to water: 19.96

Cumulative Time (min.)	Volume (L)	Water depth (ft)	Temp. (°C)	Sp.Cond. (uS/cm)	D.O. (mg/L)	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values		19.93	5 to 15	50 to 5000	0 to 4	5 to 7	-100 to +500	aim for <10
9:36 0	0.5	210	19.05	0.936	105.6	6.79	17	17.5
9:38 2	0.5	19.96	18.71	1.05	42.3	6.53	19	182
9:40 4	0.5	19.96	18.43	1.05	20.1	6.50	21	452
9:43 7	0.5	19.94	18.56	1.05	20.5	6.50	39	687
9:46 10	0.5	19.95	18.38	1.33	9.02	6.54	45	225

Sample Information:

Sample ID: PZ-02

Sample Date&Time: 4/25/23 09:53

Color: murky (brown, gray)

Turbidity: 348

Field Filtered YES / NO (NO circled) Analyses:

Filter type:

Odor/Sheen/NAPL: N/A

Duplicate Collected YES / NO (NO circled)

If yes, duplicate ID:

Purge water disposal? to ground drummed (drummed circled) other: Treatment System

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:

Sp.Cond. +/- 10%
DO +/- 10%
ORP +/- 10 mV
pH +/- 10%
Temp. +/- 10%
Turb. <10 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Notes:

Low-Flow Groundwater Sampling Form

Project number and name: Ferry Point | Sampling personnel: S.M. & E.S. (Prefiltered) | Sample date: 4/26/23 | Well ID: PZ-15

Well location description:

Well Construction

Well diameter: 2"

Well measurement point:

Roadbox condition:

Well screen interval:

Well depth: 10.20

Sampling Information

Initial depth to water: 2.21 Time: 9:27

Sample intake depth:

Pump type and ID: Bailer

Stabilized flow rate:

Stabilized flow rate = flow rate with no further drawdown

VOl. = 1.30 gal
inner cap - 0.0 ppm
outer cap - 0.0 ppm

Samples Collected

VOCs 8260 SIM	X
SVOCs 8270 SIM	X
Metals	X
M/E/E	
Nitrate/Sulfate	X
PCBs	
Other NYS AWQS	X

Field values at time of sample collection:

Time:	9:54	
Sp.Cond.	2.19	uS/cm
DO	27.9	~~mg/L~~ %
ORP	37	mV
pH	6.71	s.u.
Temp.	11.39	°C
Turb.	1000+	NTU

Depth to water:

Cumulative Time (min.)	Volume (L) gal	Water depth (ft)	Temp. (°C)	Sp.Cond. (uS/cm)	D.O. (mg/L) %	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	50 to 5000	0 to 4	5 to 7	-100 to +500	aim for <10
9:34 0	1.3	6.18	12.96	2.13	19.7	6.64	51	112
9:39 4	1.3	7.49	12.06	2.20	21.6	6.81	37	88.7
9:45 11	1.3	8.52	11.48	2.22	100.0	6.81	41	1000+

Notes:

Sample Information:

Sample ID: PZ-15

Sample Date&Time: 4/26/23

Color: murky (brown-gray)

Turbidity: 1000+

Field Filtered YES / NO (NO circled) Analyses:

Filter type:

Odor/Sheen/NAPL

Duplicate Collected YES / NO (NO circled)

If yes, duplicate ID:

Purge water disposal? to ground drummed (drummed circled) other: Treatment System

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:
Sp.Cond. +/- 10%
DO +/- 10%
ORP +/- 10 mV
pH +/- 10%
Temp. +/- 10%
Turb. <10 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Low-Flow Groundwater Sampling Form

Project number and name: Ferry Point | Sampling personnel: S.M. + F.S. (Preffered) | Sample date: 4/26/23 | Well ID: GMW-1

Well location description:

Well Construction

Well diameter: 2"

Well measurement point:

Roadbox condition:

Well screen interval:

Well depth: 29.30

Sampling Information

Initial depth to water: 26.81 Time: 8:05

Sample intake depth:

Pump type and ID: Bailer

Stabilized flow rate:

Stabilized flow rate = flow rate with no further drawdown

vol - 0.4 gal
inner cap - 0.0ppm
outer cap - 0.7ppm

Samples Collected

VOCs 8260 SIM	X
SVOCs 8270 SIM	X
Metals	X
M/E/E	
Nitrate/Sulfate	X
PCBs	
Other	X

1/4" AMBS

Field values at time of sample collection:

Time:	8:36		Depth to water: 26.65
Sp.Cond.	1.58	uS/cm	
DO	23.7	% ~~mg/L~~	
ORP	15	mV	
pH	6.98	s.u.	
Temp.	14.02	°C	
Turb.	83	NTU	

Cumulative Time (min.)	Volume (L) gal	Water depth (ft)	Temp. (°C)	Sp.Cond. (uS/cm)	D.O. (mg/L) %	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	50 to 5000	0 to 4	5 to 7	-100 to +500	aim for <10
8:14 0	0.5	26.70	13.97	1.43	39.7	6.93	8	38.8
8:19 5	0.5	26.65	13.66	1.56	71.9	6.89	23	69.0
8:23 9	0.5	26.66	13.79	1.56	25.8	6.90	22	108
8:29 15	0.5	26.65	13.86	1.57	26.7	6.90	22	78.7

Notes: rusty casing. clumpy product

Sample Information:

Sample ID: GMW-1

Sample Date&Time: 4/26/23

Color: murky (brown-gray)

Turbidity: 83

Field Filtered YES / NO (NO circled) Analyses:

Filter type:

Odor/Sheen/NAPL: floating - some rusty product (?)

Duplicate Collected YES / NO (NO circled)

If yes, duplicate ID:

Purge water disposal? to ground drummed (drummed circled) other: Treatment System

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:
Sp.Cond. +/- 10%
DO +/- 10%
ORP +/- 10 mV
pH +/- 10%
Temp. +/- 10%
Turb. <10 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Low-Flow Groundwater Sampling Form

Project number and name: Fury Point | Sampling personnel: S.M. & E.S. (Preffered) | Sample date: 4/25/23 | Well ID: GMW-5

Well location description:

Well Construction

Well diameter: 2"

Well measurement point:

Roadbox condition:

Well screen interval:

Well depth: 14.99

Sampling Information

Initial depth to water: 6.40' Time: 1:25

Sample intake depth:

Pump type and ID: bailer

Stabilized flow rate:

Stabilized flow rate = flow rate with no further drawdown

vol - 1.4 gallons

outer cap - 0.0 ppm

inner cap - 0.0 ppm

Samples Collected

VOCs 8260 SIM	X
SVOCs 8270 SIM	X
Metals	X
M/E/E	
Nitrate/Sulfate	X
PCBs	
Other	X

NY AWQS

Field values at time of sample collection:

Time:	1:47		Depth to water: 7.00
Sp.Cond.	0.446	uS/cm	
DO	29.4	mg/L	
ORP	-19	mV	
pH	8.18	s.u.	
Temp.	11.33	°C	
Turb.	10.3	NTU	

Cumulative Time (min.)	Volume ~~(L)~~ gal	Water depth (ft)	Temp. (°C)	Sp.Cond. (uS/cm)	D.O. ~~(mg/L)~~ %	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	50 to 5000	0 to 4	5 to 7	-100 to +500	aim for <10
1:27 0	1.50	6.90	14.36	0.418	20.5	8.26	-34	18.3
1:32 5	1.50	7.26	12.94	0.449	44.1	8.31	-30	27.6
1:37 12	1.50	7.44	12.37	0.453	10.8	8.09	-27	10.2
1:42 16	1.50	7.40	11.72	0.441	32.5	8.14	-15	10.5

Sample Information:

Sample ID: GMW-5

Sample Date&Time: 4/25/23

Color: murky (gray, brown)

Turbidity: 10.3

Field Filtered YES / NO (NO circled) Analyses:

Filter type:

Odor/Sheen/NAPL: N/A

Duplicate Collected YES / NO (NO circled)

If yes, duplicate ID:

Purge water disposal? to ground drummed (drummed circled) other: Treatment System

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:

Sp.Cond. +/- 10%
DO +/- 10%
ORP +/- 10 mV
pH +/- 10%
Temp. +/- 10%
Turb. <10 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Notes: Well casing filled w/ water ~1" below top of casing

Low-Flow Groundwater Sampling Form

Project number and name: Ferry Point

Sampling personnel: S.M. & F.S. (Trefferred)

Sample date: 4/26/23

Well ID: GMW-7

Well location description:

Well Construction

Well diameter: 2"

Well measurement point:

Roadbox condition:

Well screen interval:

Well depth: 14.61

Sampling Information

Initial depth to water: 8.98 Time: 13:02

Sample intake depth:

Pump type and ID: Bailer

Stabilized flow rate:

Stabilized flow rate = flow rate with no further drawdown

Vol = 0.92 gal
inner PID = 0.0 ppm
outer PID = 0.0 ppm

Samples Collected

VOCs 8260 SIM	X
SVOCs 8270 SIM	X
Metals	X
M/E/E	
Nitrate/Sulfate	X
PCBs	
Other NYS AWQS	X

Field values at time of sample collection:

Time:	13:21	
Sp.Cond.	1.18	uS/cm
DO	18.1	% ~~mg/L~~
ORP	208	mV
pH	7.14	s.u.
Temp.	12.02	°C
Turb.	10.0	NTU

Depth to water: 9.00

Cumulative Time (min.)	Volume (L) gal	Water depth (ft)	Temp. (°C)	Sp.Cond. (uS/cm)	D.O. % (mg/L)	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	50 to 5000	0 to 4	5 to 7	-100 to +500	aim for <10
13:08 0	1.0	8.98	13.63	1.18	13.6	7.30	208	48.1
13:11 3	1.0	8.99	12.45	1.17	13.7	7.29	216	37.0
13:14 6	1.0	9.00	12.24	1.17	14.3	7.11	217	15.6

Notes: Submerged - bail out to reach well plug

Sample Information:

Sample ID: GMW-7

Sample Date&Time: 4/26/23

Color: slightly cloudy

Turbidity: 10.0

Field Filtered YES / NO (NO circled) Analyses:

Filter type:

Odor/Sheen/NAPL:

Duplicate Collected YES / NO (NO circled)

If yes, duplicate ID:

Purge water disposal? to ground drummed (drummed circled) other: Treatment System

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:

Sp.Cond. +/- 10%
DO +/- 10%
ORP +/- 10 mV
pH +/- 10%
Temp. +/- 10%
Turb. <10 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Low-Flow Groundwater Sampling Form

Project number and name: Ferry Point

Sampling personnel: S.M. & F.S. (Prefferred)

Sample date: 4/26/23

Well ID: GMW-10

Well location description:

Well Construction

Well diameter: 2"

Well measurement point:

Roadbox condition:

Well screen interval:

Well depth: 17.42

Sampling Information

Initial depth to water: 9.99 Time: 10:55

Sample intake depth:

Pump type and ID: Bailer

Stabilized flow rate:

Stabilized flow rate = flow rate with no further drawdown

vol. = 1.21 gal
inner cap - 0.0 ppm
outer cap - 0.0 ppm

Samples Collected

VOCs 8260 SIM	X
SVOCs 8270 SIM	X
Metals	X
M/E/E	
Nitrate/Sulfate	X
PCBs	
Other	X

NVS AWQS

Field values at time of sample collection:

Time:	11:16		Depth to water: 10.21
Sp.Cond.	1.12	uS/cm	
DO	11.1	mg/L	
ORP	51	mV	
pH	6.80	s.u.	
Temp.	12.64	°C	
Turb.	111	NTU	

Cumulative Time (min.)	Volume ~~(L)~~ gal	Water depth (ft)	Temp. (°C)	Sp.Cond. (uS/cm)	D.O. ~~(mg/L)~~ %	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	50 to 5000	0 to 4	5 to 7	-100 to +500	aim for <10
11:00 0	1.25	10.16	12.77	1.11	22.5	7.14	64	186
11:04 4	1.25	10.20	12.59	1.19	15.6	6.85	55	64.2
11:08 8	1.25	10.23	12.42	1.13	21.7	6.95	43	107

Sample Information:

Sample ID: GMW-10

Sample Date&Time: 4/26/23

Color: murky (brown-gray)

Turbidity: 111

Field Filtered YES / NO (NO circled)

Analyses:

Filter type:

Odor/Sheen/NAPL:

Duplicate Collected YES / NO (YES circled)

If yes, duplicate ID: MS + MSD

Purge water disposal? to ground drummed other: Treatment System

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume = 3.14 x (r)^2 x 7.48 gal/ft where r = 1/2 diameter in ft

Stabilization Criteria:
Sp.Cond. +/- 10%
DO +/- 10%
ORP +/- 10 mV
pH +/- 10%
Temp. +/- 10%
Turb. <10 NTU

Notes:

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

8

Low-Flow Groundwater Sampling Form

Project number and name: Ferry Point

Sampling personnel: S.M. + E.S. (Preferred)

Sample date: 4/25/23

Well ID: GMW-11

Well location description:

Well Construction

Well diameter: 2"

Well measurement point:

Roadbox condition:

Well screen interval:

Well depth: 23.67

Sampling Information

Initial depth to water: 15.36 Time: 10:53

Sample intake depth:

Pump type and ID: Bailer

Stabilized flow rate:

Stabilized flow rate = flow rate with no further drawdown

vol. = 1.36 gal
outer cap - 0.0 ppm
inner cap - 0.0 ppm

Samples Collected

VOCs 8260 SIM	X
SVOCs 8270 SIM	X
Metals	X
M/E/E	
Nitrate/Sulfate	X
PCBs	
Other	X

1/4 AWQS

Field values at time of sample collection:

Time:	11:52	
Sp.Cond.	0.833	uS/cm
DO	55.5	~~mg/L~~ %
ORP	-98	mV
pH	9.95	s.u.
Temp.	15.29	°C
Turb.	582	NTU

Depth to water: 15.46

Cumulative Time (min.)	Volume (L) gal	Water depth (ft)	Temp. (°C)	Sp.Cond. (uS/cm)	D.O. (mg/L) %	pH (s.u.)	ORP (mV)	Turb. (NTU)
Typical Groundwater Values			5 to 15	50 to 5000	0 to 4	5 to 7	-100 to +500	aim for <10
11:00 0	1.50	15.39	15.97	0.825	101.6	9.91	-114	35.2
11:09 9	1.50	15.29	15.77	0.816	31.8	9.93	-95	421
11:22 22	1.50	15.42	15.53	0.829	112.8	10.10	-106	293
11:32 32	1.50	15.45	15.34	0.838	19.7	10.07	-109	795
11:47 47	1.50	15.45	16.40	0.828	19.4	10.04	-107	516

Notes:

Sample Information:

Sample ID: GMW-11

Sample Date&Time: 4/25/23 11:52

Color: murky (brown-gray)

Turbidity: 582

Field Filtered YES / NO (NO circled)

Analyses:

Filter type:

Odor/Sheen/NAPL: sulfur-like odor

Duplicate Collected YES / NO (YES circled)

If yes, duplicate ID: GMW-X

Purge water disposal? to ground drummed (drummed circled) other: Treatment System

Well Volume Conversion:

Diam. (in)	Factor (gal/ft)
1	0.04
1.5	0.09
2	0.16
4	0.65
6	1.50

well volume =
3.14 x (r)^2 x 7.48 gal/ft
where r = 1/2 diameter in ft

Stabilization Criteria:
Sp.Cond. +/- 10%
DO +/- 10%
ORP +/- 10 mV
pH +/- 10%
Temp. +/- 10%
Turb. <10 NTU

Guidance:

1 Position tubing at midpoint of saturated screened interval

2 Minimize drop in water level and purge until parameters are stable

3 Disconnect flow thru cell during sampling

4 Call Project Manager if issues arise (e.g. stabilization takes more than 2 hrs, well goes dry, odd data).

5 For VPH and VOC samples, if stabilization flow rate is less than 200 ml/min, contact PM

Appendix C

Drum Disposal Documentation

NON-HAZARDOUS WASTE PROFILE

Job Number:

Dale Transfer Corporation
129 Dale Street, West Babylon, NY 11704
Ph: 631-393-2882 Fx: 631-393-2884

	Approved by: Date:
	Profile Number:
GENERATOR:	**BILL TO/CLIENT:**
Name: NYC Department of Parks and Recreation	Name: AARCO Environmental Services orp.
Site Address: 500 Hutchinson River Parkway	Address: 50 Gear Avenue
City/State/Zip: Bronx, NY 10465	City/State/Zip: Lindenhurst, NY 11757
Technical Contact: Stacey Ng (GEI Consultants)	Email: Splofker@aarcoenvironmental.com
Technical Ph: (347) 514-3861	Contact: Steve Plofker Ph: 631-586-5900
TRANSPORTER:	
Name: AARCO Environmental Services Corp	Contact: Steve Plofker
Address: 50 Gear Avenue, Lindenhurst, NY 11757	Phone: 631-586-5900
Email: splofker@aarcoenvironmental.com	Fax: 631-586-5910

WASTE DESCRIPTION:

Purged groundwater from wells installed on current golf course (previously landfill)

MANUFACTURING/PROCESS DESCRIPTION:

TYPE OF CONTAMINATION:

Gasoline	☐	Diesel	☐	Fuel Oil (2,4,6)	☐	Hydraulic Oil	☐	Other:	Landfill (low level
Kerosene	☐	Jet Fuel	☐	Motor Oil	☐	Used Oil	☐		VOC,SVOC, metals)

CONTAMINATION SOURCE:

UST ☐ Historic ☐ Other: Former landfill
AST ☐ Spill ☐

SITE USAGE HISTORY:

Industrial ☐ Residential ☐
Commercial ☐ Other: Former landfill, current golf cc

PHYSICAL PROPERTIES:

COLOR: cloudy, brown-grey
ODOR: ☐ None ☑ Mild ☐ Strong
Describe:

REACTIVITY:

Total Cyanides		☑ None
Amenable Cyanides		☑ None
Reactive Sulfidies		☑ None
Shock Sensative	☐ Yes	☑ No
Generates Toxic fumes when mixed w/water, acid, or base	☐ Yes	☑ No

PHYSICAL STATE:

Liquid	☑	Multi-layerd	☐
Semi-Solid	☐	Bi-layered	☐
Solid	☐	Singe Phase	☐
Powder	☐	Gas/Aerosol	☐

FLASH POINT:

< 100	☐
≥ 100 ≤ 140	☐
> 140 ≤ 200	☐
> 200	☐

CORROSITIVITY:

≤ 2.0	☐
2.01 - 5.0	☐
5.01 - 9.0	☑
9.01 - 12.49	☑
≥ 12.50	☐

SHIPPING INFORMATION:

Vactor ☐ Vac Truck ☐ Drums ☑
Other:
Anticipated Volume (Gallons/Tons) 55 gallons
One Time ☑ Week ☐ Month ☐
Quarter ☐ Year ☐ Other:

CHEMICAL COMPOSITION/CHARACTERISTICS:

Groundwater	% 100
	%
	%

REGULATORY INFORMATION:

Proper Shipping Name: Non-hazardous well purge water

Analytical Attached: Yes ☑ No ☐ Lab: Chemtec

Disposition: Landfill ☐ Recycling ☑ Other: Disposal Facility

Generator's Certification: I certify the material described above on this profile are Non-Hazardous therefore not subject to federal regulations for reporting disposal of hazardous waste.

X Kay Zias
Authorized Signature

X Kay Zias
Print Name

X Director, ERU, NYCDPR
Title

X 6/26/2023
Date

Table 2

Summary of 2023 Post-Closure Ground Water Analytical Results

Ferry Point Park Golf Course

New York City Department of Parks and Recreation

Sample ID	NY TOGS Class GA AWQS	PZ-01	PZ-02	GMW-11	GMW-X	GMW-5	TRIP BLANK	GMW-1	PZ-15	GMW-10	GMW-7	TB-2	FB
Sampling Date		**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**
Matrix		**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Units	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**
Volatile Organic Compounds (VOCs)													
Dichlorodifluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichlorotrifluoroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Acetone	NS	**17.7**	**5.5**	5 U	**2.6** J	**9.9**	**2.4** J	**280**	**10.9**	**6.4**	**2.8** J	5 U	**2.4** J
Carbon Disulfide	60	1 U	1 U	**0.61** J	**0.72** J	1 U	1 U	1 U	**0.35** J	1 U	1 U	1 U	1 U
Methyl tert-butyl Ether	10	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Acetate	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.68** J
trans-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	NS	5 U	5 U	5 U	5 U	5 U	5 U	**1.9** J	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	**0.22** J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromochloromethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylcyclohexane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	1	1 U	1 U	1 U	**0.21** J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	0.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	**0.5** J	1 U	1 U	1 U	**0.77** J	**0.6** J	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-Pentanone	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
t-1,3-Dichloropropene	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	0.0006	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	**3.3**	**12.5**	**0.37** J	1 U	1 U	1 U
Ethyl Benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	NS	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
o-Xylene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 2

Summary of 2023 Post-Closure Ground Water Analytical Results

Ferry Point Park Golf Course

New York City Department of Parks and Recreation

Sample ID	NY TOGS Class GA AWQS	PZ-01	PZ-02	GMW-11	GMW-X	GMW-5	TRIP BLANK	GMW-1	PZ-15	GMW-10	GMW-7	TB-2	FB
Sampling Date		**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**
Matrix		**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Units	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**
Bromoform	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.44** J	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	**0.88** J	**1.1**	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Semi-Volatile Organic Compounds (SVOCs)													
Benzaldehyde	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
Phenol	1	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
bis(2-Chloroethyl)ether	1	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Chlorophenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Methylphenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,2-oxybis(1-Chloropropane)	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Acetophenone	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
3+4-Methylphenols	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
n-Nitroso-di-n-propylamine	NS	2.5 U	2.5 U	2.5 U	2.5 U	2.6 U	--	2.5 U	2.5 U	2.5 U	2.5 U	--	2.5 U
Hexachloroethane	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Nitrobenzene	0.4	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Isophorone	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Nitrophenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,4-Dimethylphenol	1	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
bis(2-Chloroethoxy)methane	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,4-Dichlorophenol	1	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Naphthalene	10	5 U	5.1 U	**11.8**	**11.6**	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
4-Chloroaniline	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Hexachlorobutadiene	0.5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Caprolactam	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
4-Chloro-3-methylphenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Methylnaphthalene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Hexachlorocyclopentadiene	5	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
2,4,6-Trichlorophenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,4,5-Trichlorophenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
1,1-Biphenyl	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Chloronaphthalene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2-Nitroaniline	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Dimethylphthalate	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Acenaphthylene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,6-Dinitrotoluene	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
3-Nitroaniline	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Acenaphthene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U

Table 2

Summary of 2023 Post-Closure Ground Water Analytical Results

Ferry Point Park Golf Course

New York City Department of Parks and Recreation

Sample ID	NY TOGS Class GA AWQS	PZ-01	PZ-02	GMW-11	GMW-X	GMW-5	TRIP BLANK	GMW-1	PZ-15	GMW-10	GMW-7	TB-2	FB
Sampling Date		**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**
Matrix		**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Units	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**
2,4-Dinitrophenol	1	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
4-Nitrophenol	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
Dibenzofuran	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,4-Dinitrotoluene	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Diethylphthalate	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
4-Chlorophenyl-phenylether	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Fluorene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
4-Nitroaniline	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
4,6-Dinitro-2-methylphenol	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
n-Nitrosodiphenylamine	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
4-Bromophenyl-phenylether	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Hexachlorobenzene	0.04	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Atrazine	7.5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Pentachlorophenol	1	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
Phenanthrene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Anthracene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Carbazole	NS	5 U	5.1 U	**2.7** J	**3** J	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Di-n-butylphthalate	50	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Fluoranthene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Pyrene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Butylbenzylphthalate	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
3,3-Dichlorobenzidine	5	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
Benzo(a)anthracene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Chrysene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Bis(2-ethylhexyl)phthalate	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Di-n-octyl phthalate	NS	10 U	10.1 U	10.1 U	10.1 U	10.2 U	--	10 U	10 U	10 U	10 U	--	10 U
Benzo(b)fluoranthene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Benzo(k)fluoranthene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Benzo(a)pyrene	ND	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Indeno(1,2,3-cd)pyrene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Dibenzo(a,h)anthracene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Benzo(g,h,i)perylene	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
1,2,4,5-Tetrachlorobenzene	5	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
1,4-Dioxane	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
2,3,4,6-Tetrachlorophenol	NS	5 U	5.1 U	5.1 U	5.1 U	5.1 U	--	5 U	5 U	5 U	5 U	--	5 U
Metals													
Aluminum	NS	**2650**	**5240**	**19300**	**17500**	**873**	--	**693**	**140000**	**561**	**2230**	--	50 U
Antimony	3	**3.47** J	**4.92** J	**2.22** J	25 U	25 U	--	**2.29** J	25 U	**2.86** J	**2.16** J	--	25 U
Arsenic	25	**6.06** J	**20.1**	**7.15** J	**7.38** J	10 U	--	10 U	**15.2**	**6.65** J	10 U	--	10 U
Barium	1000	**545**	**2380**	**254**	**234**	**36.6** J	--	**2370**	**2260**	**392**	**290**	--	50 U
Beryllium	NS	**0.32** J	**0.92** J	**1.04** J	**0.92** J	3 U	--	**0.29** J	**6.6**	**0.2** J	3 U	--	3 U
Cadmium	5	**2.96** J	**2.84** J	**0.49** J	**0.37** J	**3.51**	--	**1.11** J	**11.9**	**0.7** J	**1.47** J	--	3 U
Calcium	NS	**129000**	**101000**	**91200**	**86100**	**67900**	--	**123000**	**137000**	**153000**	**145000**	--	**50.4** J

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Matrix		**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Units	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**
Chromium	50	**11.8**	**23.2**	**33**	**31.9**	**1.83** J	--	**6.13**	**369**	**3.09** J	**9.98**	--	**0.85** J
Cobalt	NS	**3.58** J	**12** J	**12.8** J	**12.1** J	15 U	--	**1.49** J	**170**	**1.45** J	**2.59** J	--	15 U
Copper	200	**351**	**186**	**92**	**76.1**	**13.3**	--	**34.4**	**293**	**58.8**	**61.7**	--	10 U
Iron	300	**14000**	**35900**	**26200**	**25300**	**1930**	--	**26700**	**239000**	**16500**	**4730**	--	50 U
Lead	25	**238**	**451**	**205**	**193**	**19.2**	--	**45.7**	**170**	**66**	**49.5**	--	6 U
Magnesium	NS	**13100**	**29600**	**8300**	**7490**	**5990**	--	**27400**	**69900**	**23700**	**26900**	--	1000 U
Manganese	300	**761**	**440**	**442**	**401**	**189**	--	**174**	**8080**	**894**	**249**	--	**0.88** J
Mercury	0.7	**0.39**	**0.74**	**0.57**	**0.49**	0.2 U	--	**0.21**	**0.87**	0.2 U	**0.083** J	--	0.2 U
Nickel	100	**21.3**	**43.1**	**41.9**	**39.9**	**4.64** J	--	**4.98** J	**564**	**12.2** J	**20**	--	20 U
Potassium	NS	**16600**	**42800**	**33100**	**33200**	**8000**	--	**23900**	**47000**	**35300**	**20900**	--	1000 U
Selenium	10	10 U	10 U	10 U	10 U	10 U	--	10 U	**5.9** J	10 U	10 U	--	10 U
Silver	50	**1.43** J	**8.06**	**5.18**	**4.86** J	5 U	--	**4.96** J	**37.9**	5 U	5 U	--	5 U
Sodium	20000	**26500**	**129000**	**55800**	**56000**	**5930**	--	**60900**	**29800**	**14400**	**32800**	--	**240** J
Thallium	NS	20 U	20 U	20 U	20 U	20 U	--	20 U	20 U	20 U	20 U	--	20 U
Vanadium	NS	**8.59** J	**26.8**	**48.3**	**44.2**	**12.1** J	--	**24**	**313**	**22.1**	**4.55** J	--	20 U
Zinc	NS	**592**	**1070**	**235**	**234**	**24.4**	--	**98.8**	**519**	**86**	**185**	--	**2.17** J
Dissolved Metals													
Aluminum	NS	**124**	**112**	**108**	**112**	50 U	--	**141**	**80.5**	**147**	**145**	--	50 U
Antimony	3	25 U	25 U	25 U	25 U	25 U	--	25 U	25 U	25 U	25 U	--	25 U
Arsenic	25	10 U	10 U	**3.95** J	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U
Barium	1000	**429**	**570**	**50**	**42.8** J	**15.7** J	--	**1630**	**291**	**320**	**233**	--	**9.56** J
Beryllium	NS	3 U	3 U	3 U	3 U	3 U	--	3 U	3 U	3 U	3 U	--	3 U
Cadmium	5	3 U	3 U	3 U	3 U	3 U	--	**0.11** J	3 U	**0.11** J	**0.23** J	--	**0.28** J
Calcium	NS	**117000**	**88200**	**83000**	**78700**	**13300**	--	**104000**	**61300**	**146000**	**137000**	--	**1900**
Chromium	50	5 U	**1.29** J	**0.82** J	5 U	5 U	--	**1.11** J	5 U	5 U	5 U	--	5 U
Cobalt	NS	**0.81** J	**1.63** J	15 U	15 U	15 U	--	**0.47** J	**2.49** J	15 U	**0.84** J	--	15 U
Copper	200	**25.4**	**28.3**	10 U	10 U	10 U	--	**35.7**	**10.4**	**23.9**	**22.3**	--	10 U
Iron	300	**646**	**92.2**	50 U	50 U	50 U	--	**361**	**62.4**	**27** J	**24.9** J	--	**32.2** J
Lead	25	6 U	6 U	6 U	6 U	6 U	--	6 U	6 U	6 U	6 U	--	6 U
Magnesium	NS	**12900**	**23300**	**1920**	**1720**	**1360**	--	**30100**	**43700**	**23900**	**25800**	--	**41.9** J
Manganese	300	**433**	**228**	**6.06** J	**4.78** J	**35.9**	--	**76.3**	**41.7**	**702**	**207**	--	**31.6**
Mercury	0.7	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--	0.2 U	0.2 U	0.2 U	0.2 U	--	0.2 U
Nickel	100	**7.25** J	**9.28** J	**5.56** J	**6.8** J	**0.93** J	--	**2.49** J	**14** J	**8.11** J	**8.17** J	--	20 U
Potassium	NS	**15900**	**31100**	**31500**	**31300**	**1530**	--	**27200**	**30900**	**35200**	**20500**	--	1000 U
Selenium	10	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U
Silver	50	5 U	**0.67** J	**0.74** J	5 U	5 U	--	**0.7** J	**0.81** J	5 U	5 U	--	5 U
Sodium	20000	**29000**	**86200**	**58200**	**58100**	**1120**	--	**69800**	**36400**	**15500**	**32800**	--	**763** J
Thallium	NS	20 U	20 U	20 U	20 U	20 U	--	20 U	20 U	20 U	20 U	--	20 U
Vanadium	NS	20 U	20 U	**6.86** J	**7.02** J	20 U	--	20 U	20 U	20 U	20 U	--	20 U
Zinc	NS	**35.4**	**13.3** J	**3.56** J	**5.72** J	**1.85** J	--	**10.9** J	**4.22** J	**17** J	**70.2**	--	**21.4**
General Chemistry (ug/L)													
Hardness, Total	NS	**376000**	**374000**	**262000**	**246000**	**194000**	--	**420000**	**630000**	**480000**	**473000**	--	126 U
pH	NS	**6.66**	**6.74**	**9.43**	**9.49**	**7.87**	--	**6.85**	**6.71**	**6.72**	**7.02**	--	**5.48**

Table 2

Summary of 2023 Post-Closure Ground Water Analytical Results

Ferry Point Park Golf Course

New York City Department of Parks and Recreation

Sample ID	NY TOGS Class GA AWQS	PZ-01	PZ-02	GMW-11	GMW-X	GMW-5	TRIP BLANK	GMW-1	PZ-15	GMW-10	GMW-7	TB-2	FB
Sampling Date		**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/25/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**	**4/26/2023**
Matrix		**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Units	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**	**ug/l**
Chemical Oxygen Demand (COD)	NS	**140000**	**82000**	**55000**	**64000**	**126000**	--	**160000** D	**190000** D	**114000**	**15000**	--	10000 U
Biological Oxygen Demand (BOD5)	NS	**26600**	**14300**	**6360**	**3540**	**6460**	--	**95400**	**39200**	**8500**	**10200**	--	2000 U
Total Organic Carbon (TOC)	NS	**9900**	**17900**	**11000**	**11400**	**8900**	--	**28100** D	**30400** D	**26400** D	**7900**	--	**760** J
Total Kjiedahl Nitrogen (TKN)	NS	**5300**	**52600** D	**3500**	**4100**	**6900**	--	**13000** D	**49600** D	**520**	**4700**	--	500 U
Total Dissolved Solids (TDS)	NS	**508000**	**736000**	**528000**	**538000**	**332000**	--	**666000**	**773000**	**729000**	**658000**	--	10000 U
Ammonia as N	NS	**2600** D	**33800** D	**88** J	**210**	**210**	--	**13300** D	**56800** D	**1600**	**1500**	--	100 U
Phenolics	NS	50 U	50 U	**19** J	**21** J	50 U	--	50 U	50 U	50 U	50 U	--	50 U
Anions													
Bromide	NS	2000 U	**1200** J	2000 U	**750** J	2000 U	--	**900** J	**970** J	2000 U	2000 U	--	2000 U
Chloride	NS	**33000** D	**138000** D	**33900** D	**33900** D	**5700**	--	**44400** D	**38200** D	**19400** D	**21700** D	--	600 U
Nitrite	1000	600 U	600 U	600 U	600 U	600 U	--	600 U	600 U	600 U	600 U	--	600 U
Nitrate	NS	**200** J	500 U	**250** J	**200** J	500 U	--	500 U	**190** J	500 U	**1700**	--	500 U
Sulfate	NS	**34900**	**9400**	**289000** D	**292000** D	**2900** J	--	**1500** J	**3000**	**53000** D	**68000** D	--	3000 U
Nitrate+Nitrite	NS	**200** J	1100 U	**250** J	**200** J	1100 U	--	1100 U	**190** J	1100 U	**1700**	--	1100 U
Cyanide													
Cyanide	200	**27**	**140**	**42**	**4.7** J	**2.7** J	--	**35**	**340**	**220**	**10**	--	**1.4** J

Notes

-- - Not analyzed

N (Organics) - Presumptive Evidence of a Compound

N (Inorganics) - The matrix spike recovery was outside control limits

NS - No Standard

Bold - Indicates a detected concentration

Bold and shaded - Indicates an exceedance of TOGS GA Ambient Water Quality Standards

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

Q - Indicates LCS control criteria did not meet requirements.

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of 1
3. Emergency Response Phone: 631-586-5900
4. Waste Tracking Number: NHWM 219453

5. Generator's Name and Mailing Address
NYC DEPT. OF PARKS & RECREATION – CAPITAL PROJECTS - ENVIRONMENTAL REMEDIATION UNIT – OLMSTED CENTER
117-02 ROOSEVELT AVENUE
CORONA, NY 11368
Generator's Phone:

Generator's Site Address (if different than mailing address)
500 HUTCHINSON RIVER PARKWAY
THE BRONX, NY 10465

6. Transporter 1 Company Name: AARCO ENVIRONMENTAL SERVICES
U.S. EPA ID Number: NYR000107326

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
DALE TRANSFER CORP.
129 DALE STREET, WEST BABYLON NY 11704
Facility's Phone: 631-393-2882
U.S. EPA ID Number: N/A

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON-REGULATED LIQUIDS (PURGED GROUNDWATER)	001	DM	400	P
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
1. APPROVAL # 2023-553 (.001/..x..55..)
JOB# 219453 TRUCK: B470

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Savanna Marino as agent for NYCDPR
Signature: X Marino
Month 06 Day 27 Year 23

15. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Port of entry/exit:
Date leaving U.S.:
Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Bryan Booth
Signature: Bryan Booth
Month 06 Day 27 Year 23
Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
U.S. EPA ID Number
17b. Alternate Facility (or Generator)
Facility's Phone:
Month Day Year
17c. Signature of Alternate Facility (or Generator)

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

Printed in USA by GC Labels
1-800-997-6966

DESIGNATED FACILITY TO GENERATOR

Reorder Part# MANIFEST-C6NH
913-897-6966

Appendix D

CHEMTECH Laboratory Reports

CHEMTECH

DATA PACKAGE

VOLATILE ORGANICS
GENERAL CHEMISTRY
METALS
SEMI-VOLATILE ORGANICS

PROJECT NAME : FERRY POINT

GEI CONSULTANTS, INC., P.C.

530 7th Ave, Suite 2007

New York, NY - 10018

Phone No: 212-845-9965

ORDER ID : O2495

ATTENTION : Stacey Ng

Laboratory Certification ID # 20012

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Cover Page

Order ID : O2495

Project ID : Ferry Point

Client : GEI Consultants, Inc., P.C.

Lab Sample Number	Client Sample Number
O2495-01	PZ-01
O2495-02	PZ-01
O2495-03	PZ-02
O2495-04	PZ-02
O2495-05	GMW-11
O2495-06	GMW-11
O2495-07	GMW-X
O2495-08	GMW-X
O2495-09	GMW-5
O2495-10	GMW-5
O2495-11	TRIP-BLANK

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:43 am, May 09, 2023

Date: 5/8/2023

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

GEI Consultants, Inc., P.C.
Project Name: Ferry Point
Project # N/A
Chemtech Project # O2495
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
11 Water samples were received on 04/25/2023.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, COD, Cyanide, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Hardness, Total, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics, SVOC-TCL BNA -20, TDS, TKN, TOC and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID VX035415.D met the requirements except for 2-Butanone is failing marginally Low therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

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Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature S. M. Jodhani

APPROVED

By Sohil Jodhani, QA/QC Director at 9:05 am, Jul 12, 2023

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

GEI Consultants, Inc., P.C.
Project Name: Ferry Point
Project # N/A
Chemtech Project # O2495
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
11 Water samples were received on 04/25/2023.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, COD, Cyanide, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Hardness, Total, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics, SVOC-TCL BNA -20, TDS, TKN, TOC and VOC-TCLVOA-10. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 20% in the Initial Calibration method (Method 8270-BF042123.M) for Benzaldehyde,this compound is passing on Quadratic regression.

The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 8 points.

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya QA/QC Supervisor at 10:43 am, May 09, 2023

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

GEI Consultants, Inc., P.C.
Project Name: Ferry Point
Project # N/A
Chemtech Project # O2495
Test Name: Dissolved ICP-TAL Metals,Metals ICP-TAL,Dissolved Mercury,Mercury

A. Number of Samples and Date of Receipt:
11 Water samples were received on 04/25/2023.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, COD, Cyanide, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Hardness, Total, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics, SVOC-TCL BNA -20, TDS, TKN, TOC and VOC-TCLVOA-10. This data package contains results for Dissolved ICP-TAL Metals,Metals ICP-TAL,Dissolved Mercury,Mercury.

C. Analytical Techniques:
The analysis of Dissolved ICP-TAL Metals,Metals ICP-TAL was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of Dissolved Mercury,Mercury was based on method 7470A.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (GMW-5MS) analysis met criteria for all samples except for Sodium due to both chemicals interference during digestion and unknow sample matrix interference.
The Matrix Spike Duplicate (GMW-5MSD) analysis met criteria for all samples except for Iron, Sodium due to both chemicals interference during digestion and unknow sample matrix interference.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:
In analytical sequence LB125255, The % recovery was outside of acceptance limit for Vanadium of CCV05 and for Barium, Vanadium of CCV06 but, no any samples associated under these CCVs.
Sample -O2495-01, O2495-03, O2495-05, O2495-07, O2495-09 were analyzed as Total Metal and sample -O2495-02, O2495-04, O2495-06, O2495-08, O2495-10 were analyzed as Dissolve Metal.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:46 am, May 09, 2023

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

GEI Consultants, Inc., P.C.
Project Name: Ferry Point
Project # N/A
Chemtech Project # O2495
Test Name:
pH,Alkalinity,Cyanide,TOC,Phenolics,TKN,Ammonia,TDS,COD,BOD5,Anions Group1

A. Number of Samples and Date of Receipt:
11 Water samples were received on 04/25/2023.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, COD, Cyanide, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Hardness, Total, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics, SVOC-TCL BNA -20, TDS, TKN, TOC and VOC-TCLVOA-10. This data package contains results for pH, Alkalinity, Cyanide, TOC, Phenolics, TKN, Ammonia, TDS, COD, BOD5, Anions Group1.

C. Analytical Techniques:
The analysis of Anions Group1 was based on method 300.0, The analysis of Phenolics was based on method 420.1, The analysis of Cyanide was based on method 9012B, The analysis of pH was based on method 9040C, The analysis of TOC was based on method 9060A, The analysis of Alkalinity was based on method SM2320 B, The analysis of TDS was based on method SM2540 C, The analysis of TKN was based on method SM4500 N Org B or C, The analysis of Ammonia was based on method SM4500-NH3, The analysis of BOD5 was based on method SM5210 B and The analysis of COD was based on method SM5220 D.

D. QA/ QC Samples:
The Holding Times were met for all samples except for GMW-11 of pH, for GMW-5 of pH.for GMW-X of pH.for PZ-01 of pH.for PZ-02 of pH as samples were receive out of hold.
Sample PZ-01 was diluted due to high concentrations for Ammonia as N,Chloride & Sample PZ-02 was diluted due to high concentrations for Ammonia as N,TKN,Chloride & Sample GMW-11 was diluted due to high concentrations for Chloride,Sulfate & Sample GMW-X was diluted due to high concentrations for Chloride,Sulfate.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (GMW-7MS) analysis met criteria for all samples except for Ammonia as N and Phenolics due to matrix interferences.
The Matrix Spike Duplicate (GMW-7MSD) analysis met criteria for all samples except for Ammonia as N and Phenolics due to matrix interferences.
The Blank analysis did not indicate the presence of lab contamination.

CHEMTECH

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:46 am, May 09, 2023

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).

U Indicates the analyte was analyzed for, but not detected.

ND Indicates the analyte was analyzed for, but not detected

E Indicates the reported value is estimated because of the presence of interference

M Indicates Duplicate injection precision not met.

N Indicates the spiked sample recovery is not within control limits.

S Indicates the reported value was determined by the Method of Standard Addition (MSA).

***** Indicates that the duplicate analysis is not within control limits.

+ Indicates the correlation coefficient for the MSA is less than 0.995.

D Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

M Method qualifiers
"P" for ICP instrument
"PM" for ICP when Microwave Digestion is used
"CV" for Manual Cold Vapor AA
"AV" for automated Cold Vapor AA
"CA" for MIDI-Distillation Spectrophotometric
"AS" for Semi –Automated Spectrophotometric
"C" for Manual Spectrophotometric
"T" for Titrimetric
"NR" for analyte not required to be analyzed

OR Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.

Q Indicates the LCS did not meet the control limits requirements

H Sample Analysis Out Of Hold Time

QA Control # A3040961

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

QA Control # A3040960

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: O2495

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: SOHIL JODHANI **Date:** 05/09/2023

2nd Level QA Review Signature: N. N. Pandya **Date:**

APPROVED
By Nimisha Pandya QA/QC Supervisor at 10:47 am, May 09, 2023

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey - 07092
Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	O2495	**OrderDate:**	4/25/2023 3:22:44 PM
Client:	GEI Consultants, Inc., P.C.	**Project:**	Ferry Point
Contact:	Stacey Ng	**Location:**	N11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O2495-01	**PZ-01**	**Water**			**04/25/23**			**04/25/23**
			VOC-TCLVOA-10	8260-Low			04/27/23	
O2495-03	**PZ-02**	**Water**			**04/25/23**			**04/25/23**
			VOC-TCLVOA-10	8260-Low			04/28/23	
O2495-05	**GMW-11**	**Water**			**04/25/23**			**04/25/23**
			VOC-TCLVOA-10	8260-Low			04/29/23	
O2495-07	**GMW-X**	**Water**			**04/25/23**			**04/25/23**
			VOC-TCLVOA-10	8260-Low			04/29/23	
O2495-09	**GMW-5**	**Water**			**04/25/23**			**04/25/23**
			VOC-TCLVOA-10	8260-Low			04/27/23	
O2495-11	**TRIP-BLANK**	**Water**			**04/25/23**			**04/25/23**
			VOC-TCLVOA-10	8260-Low			04/27/23	

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Hit Summary Sheet
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**PZ-01**								
O2495-01	PZ-01	Water	Acetone		17.7		1.20	5.00	ug/L
O2495-01	PZ-01	Water	cis-1,2-Dichloroethene		0.22	J	0.20	1.00	ug/L
O2495-01	PZ-01	Water	Trichloroethene		0.50	J	0.26	1.00	ug/L
			Total Voc :		18.4				
O2495-01	PZ-01	Water	Sulfur dioxide	*	7.90	J	0	0	ug/L
			Total Tics :		7.90				
			Total Concentration:		26.3				
Client ID:	**PZ-02**								
O2495-03	PZ-02	Water	Acetone		5.50		1.20	5.00	ug/L
			Total Voc :		5.50				
O2495-03	PZ-02	Water	Diisopropyl ether	*	0.21	J	0.12	1.00	ug/L
			Total Tics :		0.21				
			Total Concentration:		5.71				
Client ID:	**GMW-11**								
O2495-05	GMW-11	Water	Carbon Disulfide		0.61	J	0.27	1.00	ug/L
			Total Voc :		0.61				
O2495-05	GMW-11	Water	Azulene	*	20.3	J	0	0	ug/L
			Total Tics :		20.3				
			Total Concentration:		20.9				
Client ID:	**GMW-X**								
O2495-07	GMW-X	Water	Acetone		2.60	J	1.20	5.00	ug/L
O2495-07	GMW-X	Water	Carbon Disulfide		0.72	J	0.27	1.00	ug/L
O2495-07	GMW-X	Water	Benzene		0.21	J	0.12	1.00	ug/L
			Total Voc :		3.53				
O2495-07	GMW-X	Water	Azulene	*	21.5	J	0	0	ug/L
O2495-07	GMW-X	Water	Sulfur dioxide	*	5.90	J	0	0	ug/L
			Total Tics :		27.4				
			Total Concentration:		30.9				
Client ID:	**GMW-5**								
O2495-09	GMW-5	Water	Acetone		9.90		1.20	5.00	ug/L
O2495-09	GMW-5	Water	Trichloroethene		0.77	J	0.26	1.00	ug/L
			Total Voc :		10.7				
O2495-09	GMW-5	Water	Sulfur dioxide	*	10.6	J	0	0	ug/L
			Total Tics :		10.6				
			Total Concentration:		21.3				
Client ID:	**TRIP-BLANK**								
O2495-11	TRIP-BLANK	Water	Acetone		2.40	J	1.20	5.00	ug/L
O2495-11	TRIP-BLANK	Water	Trichloroethene		0.60	J	0.26	1.00	ug/L
			Total Voc :		3.00				

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Hit Summary Sheet
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
O2495-11	TRIP-BLANK	Water	Sulfur dioxide	* 18.6	J	0	0	ug/L
			Total Tics :	18.6				
			Total Concentration:	21.6				

SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01	SDG No.:	O2495
Lab Sample ID:	O2495-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035353.D	1		04/27/23 19:50	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	17.7		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.22	J	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	0.50	J	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01	SDG No.:	O2495
Lab Sample ID:	O2495-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035353.D	1		04/27/23 19:50	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.6		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.3		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.1		64 - 133	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	225000	5.556			
540-36-3	1,4-Difluorobenzene	368000	6.763			
3114-55-4	Chlorobenzene-d5	328000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	145000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
007446-09-5	Sulfur dioxide	7.90	J		1.26	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01	SDG No.:	O2495
Lab Sample ID:	O2495-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035353.D	1		04/27/23 19:50	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02	SDG No.:	O2495
Lab Sample ID:	O2495-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035404.D	1		04/28/23 20:21	VX042823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	5.50		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02	SDG No.:	O2495
Lab Sample ID:	O2495-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035404.D	1		04/28/23 20:21	VX042823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.4		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	50.7		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.6		64 - 133	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	238000	5.55			
540-36-3	1,4-Difluorobenzene	395000	6.763			
3114-55-4	Chlorobenzene-d5	363000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	173000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
108-20-3	Diisopropyl ether	0.21	J		3.76	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02	SDG No.:	O2495
Lab Sample ID:	O2495-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035404.D	1		04/28/23 20:21	VX042823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11	SDG No.:	O2495
Lab Sample ID:	O2495-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035422.D	1		04/29/23 14:34	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	5.00	U	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	0.61	J	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11	SDG No.:	O2495
Lab Sample ID:	O2495-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035422.D	1		04/29/23 14:34	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.7		74 - 125	97%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	50.4		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		64 - 133	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	256000	5.55			
540-36-3	1,4-Difluorobenzene	415000	6.763			
3114-55-4	Chlorobenzene-d5	376000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	179000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
000275-51-4	Azulene	20.3	J		13.8	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11	SDG No.:	O2495
Lab Sample ID:	O2495-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035422.D	1		04/29/23 14:34	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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() = Laboratory InHouse Limit
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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-X	SDG No.:	O2495
Lab Sample ID:	O2495-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035423.D	1		04/29/23 14:57	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	2.60	J	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	0.72	J	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	0.21	J	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-X	SDG No.:	O2495
Lab Sample ID:	O2495-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035423.D	1		04/29/23 14:57	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.0		74 - 125	96%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.1		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		64 - 133	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	246000	5.556			
540-36-3	1,4-Difluorobenzene	401000	6.763			
3114-55-4	Chlorobenzene-d5	355000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	167000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
007446-09-5	Sulfur dioxide	5.90	J		1.26	ug/L
000275-51-4	Azulene	21.5	J		13.8	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-X	SDG No.:	O2495
Lab Sample ID:	O2495-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035423.D	1		04/29/23 14:57	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-5	SDG No.:	O2495
Lab Sample ID:	O2495-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035348.D	1		04/27/23 17:54	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	9.90		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	0.77	J	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-5	SDG No.:	O2495
Lab Sample ID:	O2495-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035348.D	1		04/27/23 17:54	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.3		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	49.2		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	50.3		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		64 - 133	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	232000	5.55			
540-36-3	1,4-Difluorobenzene	382000	6.763			
3114-55-4	Chlorobenzene-d5	344000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	157000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
007446-09-5	Sulfur dioxide	10.6	J		1.26	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-5	SDG No.:	O2495
Lab Sample ID:	O2495-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035348.D	1		04/27/23 17:54	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	TRIP-BLANK	SDG No.:	O2495
Lab Sample ID:	O2495-11	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035349.D	1		04/27/23 18:17	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	2.40	J	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	0.60	J	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	TRIP-BLANK	SDG No.:	O2495
Lab Sample ID:	O2495-11	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035349.D	1		04/27/23 18:17	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.2		74 - 125	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	50.9		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.4		64 - 133	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	224000	5.55			
540-36-3	1,4-Difluorobenzene	369000	6.763			
3114-55-4	Chlorobenzene-d5	343000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	160000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
007446-09-5	Sulfur dioxide	18.6	J		1.25	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	TRIP-BLANK	SDG No.:	O2495
Lab Sample ID:	O2495-11	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035349.D	1		04/27/23 18:17	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Surrogate Summary

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
O2495-01	PZ-01	1,2-Dichloroethane-d4	50	49.6	99	74	125
		Dibromofluoromethane	50	50.3	101	75	124
		Toluene-d8	50	50.3	101	86	113
		4-Bromofluorobenzene	50	48.1	96	64	133
O2495-03	PZ-02	1,2-Dichloroethane-d4	50	49.4	99	74	125
		Dibromofluoromethane	50	49.9	100	75	124
		Toluene-d8	50	50.7	101	86	113
		4-Bromofluorobenzene	50	51.6	103	64	133
O2495-05	GMW-11	1,2-Dichloroethane-d4	50	48.7	97	74	125
		Dibromofluoromethane	50	51.0	102	75	124
		Toluene-d8	50	50.5	101	86	113
		4-Bromofluorobenzene	50	51.5	103	64	133
O2495-07	GMW-X	1,2-Dichloroethane-d4	50	48.0	96	74	125
		Dibromofluoromethane	50	50.6	101	75	124
		Toluene-d8	50	50.1	100	86	113
		4-Bromofluorobenzene	50	49.6	99	64	133
O2495-09	GMW-5	1,2-Dichloroethane-d4	50	49.3	99	74	125
		Dibromofluoromethane	50	49.2	98	75	124
		Toluene-d8	50	50.3	101	86	113
		4-Bromofluorobenzene	50	49.4	99	64	133
O2495-11	TRIP-BLANK	1,2-Dichloroethane-d4	50	50.2	100	74	125
		Dibromofluoromethane	50	50.1	100	75	124
		Toluene-d8	50	50.9	102	86	113
		4-Bromofluorobenzene	50	51.4	103	64	133
VX0427WBL01	VX0427WBL01	1,2-Dichloroethane-d4	50	48.6	97	74	125
		Dibromofluoromethane	50	49.8	100	75	124
		Toluene-d8	50	50.8	102	86	113
		4-Bromofluorobenzene	50	49.5	99	64	133
VX0427WBS01	VX0427WBS01	1,2-Dichloroethane-d4	50	46.7	93	74	125
		Dibromofluoromethane	50	49.4	99	75	124
		Toluene-d8	50	48.6	97	86	113
		4-Bromofluorobenzene	50	48.9	98	64	133
VX0428WBL01	VX0428WBL01	1,2-Dichloroethane-d4	50	50.1	100	74	125
		Dibromofluoromethane	50	50.9	102	75	124
		Toluene-d8	50	50.7	101	86	113
		4-Bromofluorobenzene	50	51.5	103	64	133
VX0428WBS01	VX0428WBS01	1,2-Dichloroethane-d4	50	52.8	106	74	125
		Dibromofluoromethane	50	54.6	109	75	124
		Toluene-d8	50	53.7	107	86	113
		4-Bromofluorobenzene	50	54.6	109	64	133
VX0429WBL01	VX0429WBL01	1,2-Dichloroethane-d4	50	48.0	96	74	125
		Dibromofluoromethane	50	50.1	100	75	124
		Toluene-d8	50	50.3	101	86	113
		4-Bromofluorobenzene	50	50.8	102	64	133
VX0429WBS01	VX0429WBS01	1,2-Dichloroethane-d4	50	51.7	103	74	125
		Dibromofluoromethane	50	54.8	110	75	124
		Toluene-d8	50	53.0	106	86	113
		4-Bromofluorobenzene	50	53.9	108	64	133
VX0429WBSD0	VX0429WBSD01	1,2-Dichloroethane-d4	50	50.4	101	74	125
		Dibromofluoromethane	50	52.9	106	75	124
		Toluene-d8	50	51.5	103	86	113
		4-Bromofluorobenzene	50	52.7	105	64	133

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low **Datafile :** VX035330.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0427WBS01	Dichlorodifluoromethane	20	17.1	ug/L	86			69	116	
	Chloromethane	20	15.5	ug/L	78			65	116	
	Vinyl chloride	20	16.0	ug/L	80			65	117	
	Bromomethane	20	16.8	ug/L	84			42	173	
	Chloroethane	20	16.2	ug/L	81			44	165	
	Trichlorofluoromethane	20	16.7	ug/L	84			73	115	
	1,1,2-Trichlorotrifluoroethane	20	16.7	ug/L	84			80	112	
	1,1-Dichloroethene	20	16.3	ug/L	81			74	110	
	Acetone	100	78.3	ug/L	78			60	125	
	Carbon disulfide	20	15.7	ug/L	79			64	112	
	Methyl tert-butyl Ether	20	17.1	ug/L	86			78	114	
	Methyl Acetate	20	16.5	ug/L	83			67	125	
	Methylene Chloride	20	15.5	ug/L	78			72	114	
	trans-1,2-Dichloroethene	20	16.5	ug/L	83			75	108	
	1,1-Dichloroethane	20	16.5	ug/L	83			78	112	
	Cyclohexane	20	16.9	ug/L	85			75	110	
	2-Butanone	100	82.0	ug/L	82			65	122	
	Carbon Tetrachloride	20	17.1	ug/L	86			77	113	
	cis-1,2-Dichloroethene	20	16.6	ug/L	83			77	110	
	Bromochloromethane	20	17.1	ug/L	86			70	124	
	Chloroform	20	17.0	ug/L	85			79	113	
	1,1,1-Trichloroethane	20	16.6	ug/L	83			80	108	
	Methylcyclohexane	20	16.8	ug/L	84			72	115	
	Benzene	20	16.7	ug/L	84			82	109	
	1,2-Dichloroethane	20	16.9	ug/L	85			80	115	
	Trichloroethene	20	17.1	ug/L	86			77	113	
	1,2-Dichloropropane	20	17.0	ug/L	85			83	111	
	Bromodichloromethane	20	16.8	ug/L	84			83	110	
	4-Methyl-2-Pentanone	100	84.8	ug/L	85			74	118	
	Toluene	20	17.2	ug/L	86			82	110	
	t-1,3-Dichloropropene	20	17.5	ug/L	88			79	110	
	cis-1,3-Dichloropropene	20	17.4	ug/L	87			82	110	
	1,1,2-Trichloroethane	20	16.9	ug/L	85			83	112	
	2-Hexanone	100	86.7	ug/L	87			73	117	
	Dibromochloromethane	20	17.3	ug/L	86			82	110	
	1,2-Dibromoethane	20	17.2	ug/L	86			81	110	
	Tetrachloroethene	20	17.6	ug/L	88			67	123	
	Chlorobenzene	20	16.7	ug/L	84			82	109	
	Ethyl Benzene	20	17.1	ug/L	86			83	109	
	m/p-Xylenes	40	34.6	ug/L	86			82	110	
	o-Xylene	20	17.4	ug/L	87			83	109	
	Styrene	20	17.7	ug/L	89			80	111	
	Bromoform	20	16.6	ug/L	83			79	109	
	Isopropylbenzene	20	17.9	ug/L	90			83	112	
	1,1,2,2-Tetrachloroethane	20	17.3	ug/L	86			76	118	
	1,3-Dichlorobenzene	20	17.3	ug/L	86			82	108	
	1,4-Dichlorobenzene	20	16.6	ug/L	83			82	107	
	1,2-Dichlorobenzene	20	17.2	ug/L	86			82	109	
	1,2-Dibromo-3-Chloropropane	20	17.1	ug/L	86			68	112	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low **Datafile :** VX035330.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0427WBS01	1,2,4-Trichlorobenzene	20	17.2	ug/L	86			74	114	
	1,2,3-Trichlorobenzene	20	17.0	ug/L	85			77	113	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low **Datafile :** VX035382.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0428WBS01	Dichlorodifluoromethane	20	20.2	ug/L	101			69	116	
	Chloromethane	20	17.6	ug/L	88			65	116	
	Vinyl chloride	20	18.5	ug/L	93			65	117	
	Bromomethane	20	18.1	ug/L	91			42	173	
	Chloroethane	20	18.3	ug/L	92			44	165	
	Trichlorofluoromethane	20	20.2	ug/L	101			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.5	ug/L	98			80	112	
	1,1-Dichloroethene	20	19.0	ug/L	95			74	110	
	Acetone	100	99.6	ug/L	100			60	125	
	Carbon disulfide	20	18.4	ug/L	92			64	112	
	Methyl tert-butyl Ether	20	20.2	ug/L	101			78	114	
	Methyl Acetate	20	19.1	ug/L	96			67	125	
	Methylene Chloride	20	17.8	ug/L	89			72	114	
	trans-1,2-Dichloroethene	20	19.4	ug/L	97			75	108	
	1,1-Dichloroethane	20	19.6	ug/L	98			78	112	
	Cyclohexane	20	19.3	ug/L	97			75	110	
	2-Butanone	100	95.6	ug/L	96			65	122	
	Carbon Tetrachloride	20	20.8	ug/L	104			77	113	
	cis-1,2-Dichloroethene	20	19.4	ug/L	97			77	110	
	Bromochloromethane	20	20.6	ug/L	103			70	124	
	Chloroform	20	20.4	ug/L	102			79	113	
	1,1,1-Trichloroethane	20	20.3	ug/L	102			80	108	
	Methylcyclohexane	20	19.4	ug/L	97			72	115	
	Benzene	20	19.9	ug/L	100			82	109	
	1,2-Dichloroethane	20	20.3	ug/L	102			80	115	
	Trichloroethene	20	20.2	ug/L	101			77	113	
	1,2-Dichloropropane	20	20.2	ug/L	101			83	111	
	Bromodichloromethane	20	20.6	ug/L	103			83	110	
	4-Methyl-2-Pentanone	100	98.8	ug/L	99			74	118	
	Toluene	20	20.3	ug/L	102			82	110	
	t-1,3-Dichloropropene	20	20.8	ug/L	104			79	110	
	cis-1,3-Dichloropropene	20	20.9	ug/L	104			82	110	
	1,1,2-Trichloroethane	20	20.3	ug/L	102			83	112	
	2-Hexanone	100	100	ug/L	100			73	117	
	Dibromochloromethane	20	21.0	ug/L	105			82	110	
	1,2-Dibromoethane	20	20.6	ug/L	103			81	110	
	Tetrachloroethene	20	20.0	ug/L	100			67	123	
	Chlorobenzene	20	19.7	ug/L	99			82	109	
	Ethyl Benzene	20	20.3	ug/L	102			83	109	
	m/p-Xylenes	40	40.5	ug/L	101			82	110	
	o-Xylene	20	20.5	ug/L	103			83	109	
	Styrene	20	20.9	ug/L	104			80	111	
	Bromoform	20	20.9	ug/L	104			79	109	
	Isopropylbenzene	20	21.0	ug/L	105			83	112	
	1,1,2,2-Tetrachloroethane	20	20.8	ug/L	104			76	118	
	1,3-Dichlorobenzene	20	20.4	ug/L	102			82	108	
	1,4-Dichlorobenzene	20	19.5	ug/L	98			82	107	
	1,2-Dichlorobenzene	20	20.0	ug/L	100			82	109	
	1,2-Dibromo-3-Chloropropane	20	21.1	ug/L	106			68	112	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low **Datafile :** VX035382.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0428WBS01	1,2,4-Trichlorobenzene	20	20.4	ug/L	102			74	114	
	1,2,3-Trichlorobenzene	20	20.0	ug/L	100			77	113	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low **Datafile :** VX035418.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0429WBS01	Dichlorodifluoromethane	20	19.0	ug/L	95			69	116	
	Chloromethane	20	16.7	ug/L	84			65	116	
	Vinyl chloride	20	17.6	ug/L	88			65	117	
	Bromomethane	20	17.7	ug/L	89			42	173	
	Chloroethane	20	18.5	ug/L	93			44	165	
	Trichlorofluoromethane	20	18.8	ug/L	94			73	115	
	1,1,2-Trichlorotrifluoroethane	20	18.7	ug/L	94			80	112	
	1,1-Dichloroethene	20	18.1	ug/L	91			74	110	
	Acetone	100	88.8	ug/L	89			60	125	
	Carbon disulfide	20	17.3	ug/L	86			64	112	
	Methyl tert-butyl Ether	20	19.2	ug/L	96			78	114	
	Methyl Acetate	20	17.8	ug/L	89			67	125	
	Methylene Chloride	20	17.2	ug/L	86			72	114	
	trans-1,2-Dichloroethene	20	18.7	ug/L	94			75	108	
	1,1-Dichloroethane	20	18.8	ug/L	94			78	112	
	Cyclohexane	20	18.5	ug/L	93			75	110	
	2-Butanone	100	86.6	ug/L	87			65	122	
	Carbon Tetrachloride	20	19.7	ug/L	99			77	113	
	cis-1,2-Dichloroethene	20	18.8	ug/L	94			77	110	
	Bromochloromethane	20	22.2	ug/L	111			70	124	
	Chloroform	20	19.4	ug/L	97			79	113	
	1,1,1-Trichloroethane	20	19.3	ug/L	97			80	108	
	Methylcyclohexane	20	18.4	ug/L	92			72	115	
	Benzene	20	18.9	ug/L	95			82	109	
	1,2-Dichloroethane	20	19.1	ug/L	96			80	115	
	Trichloroethene	20	19.3	ug/L	97			77	113	
	1,2-Dichloropropane	20	19.3	ug/L	97			83	111	
	Bromodichloromethane	20	19.5	ug/L	98			83	110	
	4-Methyl-2-Pentanone	100	91.5	ug/L	92			74	118	
	Toluene	20	19.2	ug/L	96			82	110	
	t-1,3-Dichloropropene	20	19.9	ug/L	100			79	110	
	cis-1,3-Dichloropropene	20	19.9	ug/L	100			82	110	
	1,1,2-Trichloroethane	20	19.0	ug/L	95			83	112	
	2-Hexanone	100	91.5	ug/L	92			73	117	
	Dibromochloromethane	20	19.9	ug/L	100			82	110	
	1,2-Dibromoethane	20	19.4	ug/L	97			81	110	
	Tetrachloroethene	20	18.9	ug/L	95			67	123	
	Chlorobenzene	20	18.8	ug/L	94			82	109	
	Ethyl Benzene	20	19.3	ug/L	97			83	109	
	m/p-Xylenes	40	38.8	ug/L	97			82	110	
	o-Xylene	20	19.7	ug/L	99			83	109	
	Styrene	20	19.5	ug/L	98			80	111	
	Bromoform	20	19.8	ug/L	99			79	109	
	Isopropylbenzene	20	20.2	ug/L	101			83	112	
	1,1,2,2-Tetrachloroethane	20	19.2	ug/L	96			76	118	
	1,3-Dichlorobenzene	20	19.2	ug/L	96			82	108	
	1,4-Dichlorobenzene	20	18.7	ug/L	94			82	107	
	1,2-Dichlorobenzene	20	19.1	ug/L	96			82	109	
	1,2-Dibromo-3-Chloropropane	20	18.6	ug/L	93			68	112	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low **Datafile :** VX035418.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0429WBS01	1,2,4-Trichlorobenzene	20	18.7	ug/L	94			74	114	
	1,2,3-Trichlorobenzene	20	18.5	ug/L	93			77	113	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low **Datafile :** VX035419.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0429WBSD01	Dichlorodifluoromethane	20	18.1	ug/L	91	4		69	116	20
	Chloromethane	20	16.1	ug/L	81	4		65	116	20
	Vinyl chloride	20	16.8	ug/L	84	5		65	117	20
	Bromomethane	20	17.4	ug/L	87	2		42	173	20
	Chloroethane	20	17.1	ug/L	86	8		44	165	20
	Trichlorofluoromethane	20	18.4	ug/L	92	2		73	115	20
	1,1,2-Trichlorotrifluoroethane	20	18.5	ug/L	93	1		80	112	20
	1,1-Dichloroethene	20	17.4	ug/L	87	4		74	110	20
	Acetone	100	87.3	ug/L	87	2		60	125	20
	Carbon disulfide	20	16.6	ug/L	83	4		64	112	20
	Methyl tert-butyl Ether	20	19.1	ug/L	96	0		78	114	20
	Methyl Acetate	20	18.0	ug/L	90	1		67	125	20
	Methylene Chloride	20	16.7	ug/L	84	2		72	114	20
	trans-1,2-Dichloroethene	20	18.1	ug/L	91	3		75	108	20
	1,1-Dichloroethane	20	18.3	ug/L	92	2		78	112	20
	Cyclohexane	20	17.7	ug/L	89	4		75	110	20
	2-Butanone	100	86.5	ug/L	87	0		65	122	20
	Carbon Tetrachloride	20	19.1	ug/L	96	3		77	113	20
	cis-1,2-Dichloroethene	20	18.1	ug/L	91	3		77	110	20
	Bromochloromethane	20	20.8	ug/L	104	7		70	124	20
	Chloroform	20	18.7	ug/L	94	3		79	113	20
	1,1,1-Trichloroethane	20	18.6	ug/L	93	4		80	108	20
	Methylcyclohexane	20	18.0	ug/L	90	2		72	115	20
	Benzene	20	18.4	ug/L	92	3		82	109	20
	1,2-Dichloroethane	20	18.8	ug/L	94	2		80	115	20
	Trichloroethene	20	18.5	ug/L	93	4		77	113	20
	1,2-Dichloropropane	20	18.8	ug/L	94	3		83	111	20
	Bromodichloromethane	20	19.4	ug/L	97	1		83	110	20
	4-Methyl-2-Pentanone	100	92.5	ug/L	93	1		74	118	20
	Toluene	20	18.6	ug/L	93	3		82	110	20
	t-1,3-Dichloropropene	20	20.0	ug/L	100	0		79	110	20
	cis-1,3-Dichloropropene	20	19.6	ug/L	98	2		82	110	20
	1,1,2-Trichloroethane	20	19.4	ug/L	97	2		83	112	20
	2-Hexanone	100	91.8	ug/L	92	0		73	117	20
	Dibromochloromethane	20	19.7	ug/L	99	1		82	110	20
	1,2-Dibromoethane	20	19.9	ug/L	100	3		81	110	20
	Tetrachloroethene	20	18.8	ug/L	94	1		67	123	20
	Chlorobenzene	20	18.5	ug/L	93	1		82	109	20
	Ethyl Benzene	20	19.1	ug/L	96	1		83	109	20
	m/p-Xylenes	40	38.6	ug/L	97	0		82	110	20
	o-Xylene	20	19.6	ug/L	98	1		83	109	20
	Styrene	20	19.6	ug/L	98	0		80	111	20
	Bromoform	20	20.1	ug/L	101	2		79	109	20
	Isopropylbenzene	20	19.9	ug/L	100	1		83	112	20
	1,1,2,2-Tetrachloroethane	20	19.5	ug/L	98	2		76	118	20
	1,3-Dichlorobenzene	20	19.3	ug/L	97	1		82	108	20
	1,4-Dichlorobenzene	20	18.3	ug/L	92	2		82	107	20
	1,2-Dichlorobenzene	20	19.0	ug/L	95	1		82	109	20
	1,2-Dibromo-3-Chloropropane	20	18.6	ug/L	93	0		68	112	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low **Datafile :** VX035419.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0429WBSD01	1,2,4-Trichlorobenzene	20	18.9	ug/L	95	1		74	114	20
	1,2,3-Trichlorobenzene	20	19.3	ug/L	97	4		77	113	20

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0427WBL01

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035329.D Lab Sample ID: VX0427WBL01

Date Analyzed: 04/27/2023 Time Analyzed: 10:29

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0427WBS01	VX0427WBS01	VX035330.D	04/27/2023
GMW-5	O2495-09	VX035348.D	04/27/2023
TRIP-BLANK	O2495-11	VX035349.D	04/27/2023
PZ-01	O2495-01	VX035353.D	04/27/2023

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0428WBL01

Lab Name: CHEMTECH

Contract: GEIC06

Lab Code: CHEM

Case No.: O2495

SAS No.: O2495

SDG NO.: O2495

Lab File ID: VX035381.D

Lab Sample ID: VX0428WBL01

Date Analyzed: 04/28/2023

Time Analyzed: 11:21

GC Column: DB-624UI

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0428WBS01	VX0428WBS01	VX035382.D	04/28/2023
PZ-02	O2495-03	VX035404.D	04/28/2023

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0429WBL01

Lab Name: CHEMTECH

Contract: GEIC06

Lab Code: CHEM

Case No.: O2495

SAS No.: O2495

SDG NO.: O2495

Lab File ID: VX035417.D

Lab Sample ID: VX0429WBL01

Date Analyzed: 04/29/2023

Time Analyzed: 12:36

GC Column: DB-624UI

ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0429WBS01	VX0429WBS01	VX035418.D	04/29/2023
VX0429WBSD01	VX0429WBSD01	VX035419.D	04/29/2023
GMW-11	O2495-05	VX035422.D	04/29/2023
GMW-X	O2495-07	VX035423.D	04/29/2023

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035269.D BFB Injection Date: 04/25/2023

Instrument ID: MSVOA_X BFB Injection Time: 08:57

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.5
75	30.0 - 60.0% of mass 95	49.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.5 (0.6) 1
174	50.0 - 100.0% of mass 95	75.5
175	5.0 - 9.0% of mass 174	5.9 (7.8) 1
176	95.0 - 101.0% of mass 174	75.2 (99.5) 1
177	5.0 - 9.0% of mass 176	5.1 (6.7) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX035272.D	04/25/2023	10:37
VSTDICC005	VSTDICC005	VX035273.D	04/25/2023	11:00
VSTDICC020	VSTDICC020	VX035274.D	04/25/2023	11:23
VSTDICCC050	VSTDICCC050	VX035275.D	04/25/2023	11:46
VSTDICC150	VSTDICC150	VX035277.D	04/25/2023	12:32
VSTDICC100	VSTDICC100	VX035279.D	04/25/2023	13:21

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035326.D BFB Injection Date: 04/27/2023

Instrument ID: MSVOA_X BFB Injection Time: 08:28

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.6
75	30.0 - 60.0% of mass 95	48.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.2 (0.3) 1
174	50.0 - 100.0% of mass 95	75.9
175	5.0 - 9.0% of mass 174	6 (7.9) 1
176	95.0 - 101.0% of mass 174	72.8 (95.9) 1
177	5.0 - 9.0% of mass 176	4.9 (6.7) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX035327.D	04/27/2023	09:40
VX0427WBL01	VX0427WBL01	VX035329.D	04/27/2023	10:29
VX0427WBS01	VX0427WBS01	VX035330.D	04/27/2023	10:52
GMW-5	O2495-09	VX035348.D	04/27/2023	17:54
TRIP-BLANK	O2495-11	VX035349.D	04/27/2023	18:17
PZ-01	O2495-01	VX035353.D	04/27/2023	19:50

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035378.D BFB Injection Date: 04/28/2023

Instrument ID: MSVOA_X BFB Injection Time: 10:03

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.2
75	30.0 - 60.0% of mass 95	50.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.4 (0.5) 1
174	50.0 - 100.0% of mass 95	76.7
175	5.0 - 9.0% of mass 174	5.8 (7.5) 1
176	95.0 - 101.0% of mass 174	73.7 (96.1) 1
177	5.0 - 9.0% of mass 176	5 (6.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX035379.D	04/28/2023	10:31
VX0428WBL01	VX0428WBL01	VX035381.D	04/28/2023	11:21
VX0428WBS01	VX0428WBS01	VX035382.D	04/28/2023	11:44
PZ-02	O2495-03	VX035404.D	04/28/2023	20:21

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035414.D BFB Injection Date: 04/29/2023

Instrument ID: MSVOA_X BFB Injection Time: 11:13

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.5
75	30.0 - 60.0% of mass 95	48.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.3 (0.4) 1
174	50.0 - 100.0% of mass 95	79.2
175	5.0 - 9.0% of mass 174	5.9 (7.4) 1
176	95.0 - 101.0% of mass 174	76.8 (97) 1
177	5.0 - 9.0% of mass 176	4.7 (6.2) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX035415.D	04/29/2023	11:44
VX0429WBL01	VX0429WBL01	VX035417.D	04/29/2023	12:36
VX0429WBS01	VX0429WBS01	VX035418.D	04/29/2023	12:59
VX0429WBSD01	VX0429WBSD01	VX035419.D	04/29/2023	13:25
GMW-11	O2495-05	VX035422.D	04/29/2023	14:34
GMW-X	O2495-07	VX035423.D	04/29/2023	14:57

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035327.D Date Analyzed: 04/27/2023

Instrument ID: MSVOA_X Time Analyzed: 09:40

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	296701	5.55	462567	6.76	410355	10.06
UPPER LIMIT	593402	6.05	925134	7.257	820710	10.555
LOWER LIMIT	148351	5.05	231284	6.257	205178	9.555
EPA SAMPLE NO.						
PZ-01	225496	5.56	367679	6.76	327989	10.06
GMW-5	231525	5.55	382487	6.76	343993	10.06
TRIP-BLANK	224211	5.55	369366	6.76	342746	10.06
VX0427WBL01	250831	5.55	410206	6.76	369675	10.06
VX0427WBS01	295038	5.55	458100	6.76	405076	10.06

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035327.D Date Analyzed: 04/27/2023

Instrument ID: MSVOA_X Time Analyzed: 09:40

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	207220	12.024				
UPPER LIMIT	414440	12.524				
LOWER LIMIT	103610	11.524				
EPA SAMPLE NO.						
PZ-01	145355	12.02				
GMW-5	157240	12.02				
TRIP-BLANK	159589	12.02				
VX0427WBL01	172799	12.02				
VX0427WBS01	199849	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035379.D Date Analyzed: 04/28/2023

Instrument ID: MSVOA_X Time Analyzed: 10:31

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	261150	5.55	399192	6.76	353705	10.06
UPPER LIMIT	522300	6.05	798384	7.257	707410	10.555
LOWER LIMIT	130575	5.05	199596	6.257	176853	9.555
EPA SAMPLE NO.						
PZ-02	238419	5.55	394894	6.76	363087	10.06
VX0428WBL01	223220	5.55	366670	6.76	331319	10.06
VX0428WBS01	288171	5.55	446481	6.76	395148	10.06

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035379.D Date Analyzed: 04/28/2023

Instrument ID: MSVOA_X Time Analyzed: 10:31

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	177369	12.024				
UPPER LIMIT	354738	12.524				
LOWER LIMIT	88684.5	11.524				
EPA SAMPLE NO.						
PZ-02	173207	12.02				
VX0428WBL01	156787	12.02				
VX0428WBS01	195798	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035415.D Date Analyzed: 04/29/2023

Instrument ID: MSVOA_X Time Analyzed: 11:44

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	285341	5.54	436930	6.76	380748	10.05
UPPER LIMIT	570682	6.044	873860	7.257	761496	10.549
LOWER LIMIT	142671	5.044	218465	6.257	190374	9.549
EPA SAMPLE NO.						
GMW-11	255672	5.55	415401	6.76	375783	10.06
GMW-X	245800	5.56	400537	6.76	355066	10.06
VX0429WBL01	258992	5.55	421873	6.76	380863	10.06
VX0429WBS01	300917	5.55	468999	6.76	416096	10.06
VX0429WBSD01	274595	5.55	424456	6.76	373456	10.06

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: VX035415.D Date Analyzed: 04/29/2023

Instrument ID: MSVOA_X Time Analyzed: 11:44

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	189139	12.018				
UPPER LIMIT	378278	12.518				
LOWER LIMIT	94569.5	11.518				
EPA SAMPLE NO.						
GMW-11	179310	12.02				
GMW-X	166692	12.02				
VX0429WBL01	178613	12.02				
VX0429WBS01	203044	12.02				
VX0429WBSD01	185885	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0427WBL01	SDG No.:	O2495
Lab Sample ID:	VX0427WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035329.D	1		04/27/23 10:29	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	5.00	U	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0427WBL01	SDG No.:	O2495
Lab Sample ID:	VX0427WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035329.D	1		04/27/23 10:29	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.6		74 - 125	97%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	50.8		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		64 - 133	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	251000	5.55			
540-36-3	1,4-Difluorobenzene	410000	6.757			
3114-55-4	Chlorobenzene-d5	370000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	173000	12.024			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0427WBL01	SDG No.:	O2495
Lab Sample ID:	VX0427WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035329.D	1		04/27/23 10:29	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0428WBL01	SDG No.:	O2495
Lab Sample ID:	VX0428WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035381.D	1		04/28/23 11:21	VX042823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	5.00	U	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0428WBL01	SDG No.:	O2495
Lab Sample ID:	VX0428WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035381.D	1		04/28/23 11:21	VX042823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.1		74 - 125	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	50.7		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		64 - 133	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	223000	5.55			
540-36-3	1,4-Difluorobenzene	367000	6.763			
3114-55-4	Chlorobenzene-d5	331000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	157000	12.024			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0428WBL01	SDG No.:	O2495
Lab Sample ID:	VX0428WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035381.D	1		04/28/23 11:21	VX042823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0429WBL01	SDG No.:	O2495
Lab Sample ID:	VX0429WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035417.D	1		04/29/23 12:36	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	5.00	U	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0429WBL01	SDG No.:	O2495
Lab Sample ID:	VX0429WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035417.D	1		04/29/23 12:36	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.0		74 - 125	96%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	50.3		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.8		64 - 133	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	259000	5.55			
540-36-3	1,4-Difluorobenzene	422000	6.763			
3114-55-4	Chlorobenzene-d5	381000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	179000	12.024			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0429WBL01	SDG No.:	O2495
Lab Sample ID:	VX0429WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035417.D	1		04/29/23 12:36	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0427WBS01	SDG No.:	O2495
Lab Sample ID:	VX0427WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035330.D	1		04/27/23 10:52	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.1		0.14	1.00	ug/L
74-87-3	Chloromethane	15.5		0.25	1.00	ug/L
75-01-4	Vinyl Chloride	16.0		0.25	1.00	ug/L
74-83-9	Bromomethane	16.8		1.60	5.00	ug/L
75-00-3	Chloroethane	16.2		0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	16.7		0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	16.7		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	16.3		0.21	1.00	ug/L
67-64-1	Acetone	78.3		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	15.7		0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.1		0.14	1.00	ug/L
79-20-9	Methyl Acetate	16.5		0.36	1.00	ug/L
75-09-2	Methylene Chloride	15.5		0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	16.5		0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	16.5		0.16	1.00	ug/L
110-82-7	Cyclohexane	16.9		1.60	5.00	ug/L
78-93-3	2-Butanone	82.0		1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	17.1		0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	16.6		0.20	1.00	ug/L
74-97-5	Bromochloromethane	17.1		0.14	1.00	ug/L
67-66-3	Chloroform	17.0		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	16.6		0.14	1.00	ug/L
108-87-2	Methylcyclohexane	16.8		0.16	1.00	ug/L
71-43-2	Benzene	16.7		0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	16.9		0.16	1.00	ug/L
79-01-6	Trichloroethene	17.1		0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	17.0		0.15	1.00	ug/L
75-27-4	Bromodichloromethane	16.8		0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	84.8		0.74	5.00	ug/L
108-88-3	Toluene	17.2		0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	17.5		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	17.4		0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0427WBS01	SDG No.:	O2495
Lab Sample ID:	VX0427WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035330.D	1		04/27/23 10:52	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	16.9		0.13	1.00	ug/L
591-78-6	2-Hexanone	86.7		0.98	5.00	ug/L
124-48-1	Dibromochloromethane	17.3		0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	17.2		0.13	1.00	ug/L
127-18-4	Tetrachloroethene	17.6		0.17	1.00	ug/L
108-90-7	Chlorobenzene	16.7		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	17.1		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	34.6		0.31	2.00	ug/L
95-47-6	o-Xylene	17.4		0.15	1.00	ug/L
100-42-5	Styrene	17.7		0.13	1.00	ug/L
75-25-2	Bromoform	16.6		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	17.9		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	17.3		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	17.3		0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	16.6		0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.2		0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.1		0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.2		0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.0		0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.7		74 - 125	93%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	48.6		86 - 113	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		64 - 133	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	295000	5.55			
540-36-3	1,4-Difluorobenzene	458000	6.763			
3114-55-4	Chlorobenzene-d5	405000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	200000	12.024			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0427WBS01	SDG No.:	O2495
Lab Sample ID:	VX0427WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035330.D	1		04/27/23 10:52	VX042723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0428WBS01	SDG No.:	O2495
Lab Sample ID:	VX0428WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035382.D	1		04/28/23 11:44	VX042823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.2		0.14	1.00	ug/L
74-87-3	Chloromethane	17.6		0.25	1.00	ug/L
75-01-4	Vinyl Chloride	18.5		0.25	1.00	ug/L
74-83-9	Bromomethane	18.1		1.60	5.00	ug/L
75-00-3	Chloroethane	18.3		0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.2		0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.5		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.0		0.21	1.00	ug/L
67-64-1	Acetone	99.6		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	18.4		0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.2		0.14	1.00	ug/L
79-20-9	Methyl Acetate	19.1		0.36	1.00	ug/L
75-09-2	Methylene Chloride	17.8		0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.4		0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.6		0.16	1.00	ug/L
110-82-7	Cyclohexane	19.3		1.60	5.00	ug/L
78-93-3	2-Butanone	95.6		1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.8		0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.4		0.20	1.00	ug/L
74-97-5	Bromochloromethane	20.6		0.14	1.00	ug/L
67-66-3	Chloroform	20.4		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.3		0.14	1.00	ug/L
108-87-2	Methylcyclohexane	19.4		0.16	1.00	ug/L
71-43-2	Benzene	19.9		0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.3		0.16	1.00	ug/L
79-01-6	Trichloroethene	20.2		0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.2		0.15	1.00	ug/L
75-27-4	Bromodichloromethane	20.6		0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	98.8		0.74	5.00	ug/L
108-88-3	Toluene	20.3		0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	20.8		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.9		0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0428WBS01	SDG No.:	O2495
Lab Sample ID:	VX0428WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035382.D	1		04/28/23 11:44	VX042823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	20.3		0.13	1.00	ug/L
591-78-6	2-Hexanone	100		0.98	5.00	ug/L
124-48-1	Dibromochloromethane	21.0		0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.6		0.13	1.00	ug/L
127-18-4	Tetrachloroethene	20.0		0.17	1.00	ug/L
108-90-7	Chlorobenzene	19.7		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	20.3		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	40.5		0.31	2.00	ug/L
95-47-6	o-Xylene	20.5		0.15	1.00	ug/L
100-42-5	Styrene	20.9		0.13	1.00	ug/L
75-25-2	Bromoform	20.9		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	21.0		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.8		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.4		0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.5		0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.0		0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	21.1		0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.4		0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.0		0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.8		74 - 125	106%	SPK: 50
1868-53-7	Dibromofluoromethane	54.6		75 - 124	109%	SPK: 50
2037-26-5	Toluene-d8	53.7		86 - 113	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.6		64 - 133	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	288000	5.55			
540-36-3	1,4-Difluorobenzene	446000	6.763			
3114-55-4	Chlorobenzene-d5	395000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	196000	12.024			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0428WBS01	SDG No.:	O2495
Lab Sample ID:	VX0428WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035382.D	1		04/28/23 11:44	VX042823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0429WBS01	SDG No.:	O2495
Lab Sample ID:	VX0429WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035418.D	1		04/29/23 12:59	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	19.0		0.14	1.00	ug/L
74-87-3	Chloromethane	16.7		0.25	1.00	ug/L
75-01-4	Vinyl Chloride	17.6		0.25	1.00	ug/L
74-83-9	Bromomethane	17.7		1.60	5.00	ug/L
75-00-3	Chloroethane	18.5		0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.8		0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.7		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.1		0.21	1.00	ug/L
67-64-1	Acetone	88.8		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	17.3		0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.2		0.14	1.00	ug/L
79-20-9	Methyl Acetate	17.8		0.36	1.00	ug/L
75-09-2	Methylene Chloride	17.2		0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.7		0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.8		0.16	1.00	ug/L
110-82-7	Cyclohexane	18.5		1.60	5.00	ug/L
78-93-3	2-Butanone	86.6		1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.7		0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.8		0.20	1.00	ug/L
74-97-5	Bromochloromethane	22.2		0.14	1.00	ug/L
67-66-3	Chloroform	19.4		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.3		0.14	1.00	ug/L
108-87-2	Methylcyclohexane	18.4		0.16	1.00	ug/L
71-43-2	Benzene	18.9		0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.1		0.16	1.00	ug/L
79-01-6	Trichloroethene	19.3		0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.3		0.15	1.00	ug/L
75-27-4	Bromodichloromethane	19.5		0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	91.5		0.74	5.00	ug/L
108-88-3	Toluene	19.2		0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.9		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.9		0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0429WBS01	SDG No.:	O2495
Lab Sample ID:	VX0429WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035418.D	1		04/29/23 12:59	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	19.0		0.13	1.00	ug/L
591-78-6	2-Hexanone	91.5		0.98	5.00	ug/L
124-48-1	Dibromochloromethane	19.9		0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.4		0.13	1.00	ug/L
127-18-4	Tetrachloroethene	18.9		0.17	1.00	ug/L
108-90-7	Chlorobenzene	18.8		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	19.3		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	38.8		0.31	2.00	ug/L
95-47-6	o-Xylene	19.7		0.15	1.00	ug/L
100-42-5	Styrene	19.5		0.13	1.00	ug/L
75-25-2	Bromoform	19.8		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	20.2		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.2		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.2		0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.7		0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.1		0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.6		0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.7		0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.5		0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.7		74 - 125	103%	SPK: 50
1868-53-7	Dibromofluoromethane	54.8		75 - 124	110%	SPK: 50
2037-26-5	Toluene-d8	53.0		86 - 113	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.9		64 - 133	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	301000	5.55			
540-36-3	1,4-Difluorobenzene	469000	6.763			
3114-55-4	Chlorobenzene-d5	416000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	203000	12.018			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0429WBS01	SDG No.:	O2495
Lab Sample ID:	VX0429WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035418.D	1		04/29/23 12:59	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0429WBSD01	SDG No.:	O2495
Lab Sample ID:	VX0429WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035419.D	1		04/29/23 13:25	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.1		0.14	1.00	ug/L
74-87-3	Chloromethane	16.1		0.25	1.00	ug/L
75-01-4	Vinyl Chloride	16.8		0.25	1.00	ug/L
74-83-9	Bromomethane	17.4		1.60	5.00	ug/L
75-00-3	Chloroethane	17.1		0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.4		0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.5		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.4		0.21	1.00	ug/L
67-64-1	Acetone	87.3		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	16.6		0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.1		0.14	1.00	ug/L
79-20-9	Methyl Acetate	18.0		0.36	1.00	ug/L
75-09-2	Methylene Chloride	16.7		0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.1		0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.3		0.16	1.00	ug/L
110-82-7	Cyclohexane	17.7		1.60	5.00	ug/L
78-93-3	2-Butanone	86.5		1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.1		0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.1		0.20	1.00	ug/L
74-97-5	Bromochloromethane	20.8		0.14	1.00	ug/L
67-66-3	Chloroform	18.7		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.6		0.14	1.00	ug/L
108-87-2	Methylcyclohexane	18.0		0.16	1.00	ug/L
71-43-2	Benzene	18.4		0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.8		0.16	1.00	ug/L
79-01-6	Trichloroethene	18.5		0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.8		0.15	1.00	ug/L
75-27-4	Bromodichloromethane	19.4		0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	92.5		0.74	5.00	ug/L
108-88-3	Toluene	18.6		0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	20.0		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.6		0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0429WBSD01	SDG No.:	O2495
Lab Sample ID:	VX0429WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035419.D	1		04/29/23 13:25	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	19.4		0.13	1.00	ug/L
591-78-6	2-Hexanone	91.8		0.98	5.00	ug/L
124-48-1	Dibromochloromethane	19.7		0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.9		0.13	1.00	ug/L
127-18-4	Tetrachloroethene	18.8		0.17	1.00	ug/L
108-90-7	Chlorobenzene	18.5		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	19.1		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	38.6		0.31	2.00	ug/L
95-47-6	o-Xylene	19.6		0.15	1.00	ug/L
100-42-5	Styrene	19.6		0.13	1.00	ug/L
75-25-2	Bromoform	20.1		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	19.9		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.5		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.3		0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.3		0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.0		0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.6		0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.9		0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.3		0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.4		74 - 125	101%	SPK: 50
1868-53-7	Dibromofluoromethane	52.9		75 - 124	106%	SPK: 50
2037-26-5	Toluene-d8	51.4		86 - 113	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.7		64 - 133	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	275000	5.55			
540-36-3	1,4-Difluorobenzene	424000	6.757			
3114-55-4	Chlorobenzene-d5	373000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	186000	12.024			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0429WBSD01	SDG No.:	O2495
Lab Sample ID:	VX0429WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035419.D	1		04/29/23 13:25	VX042923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: MSVOA_X Calibration Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Calibration Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX035272.D RRF005 = VX035273.D RRF020 = VX035274.D
RRF050 = VX035275.D RRF150 = VX035277.D RRF100 = VX035279.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF150	RRF100	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.488	0.488	0.515	0.550	0.543	0.589	0.529	7.5
Chloromethane	0.521	0.467	0.445	0.473	0.484	0.498	0.481	5.4
Vinyl Chloride	0.485	0.479	0.449	0.478	0.488	0.518	0.483	4.6
Bromomethane		0.316	0.307	0.317	0.328	0.336	0.321	3.5
Chloroethane	0.332	0.268	0.264	0.277	0.268	0.285	0.282	9
Trichlorofluoromethane	0.848	0.740	0.719	0.732	0.713	0.778	0.755	6.8
1,1,2-Trichlorotrifluoroethane	0.562	0.496	0.459	0.493	0.483	0.532	0.504	7.3
1,1-Dichloroethene	0.545	0.475	0.444	0.471	0.475	0.504	0.486	7.2
Acetone	0.310	0.255	0.247	0.253	0.237	0.270	0.262	9.9
Carbon Disulfide	1.168	1.018	1.053	1.182	1.259	1.304	1.164	9.6
Methyl tert-butyl Ether	1.731	1.674	1.558	1.657	1.649	1.727	1.666	3.8
Methyl Acetate	1.071	0.953	0.968	1.022	1.018	1.048	1.013	4.5
Methylene Chloride	0.840	0.588	0.536	0.539	0.536	0.565	0.601	19.8
trans-1,2-Dichloroethene	0.567	0.535	0.488	0.514	0.515	0.546	0.527	5.2
1,1-Dichloroethane	0.982	0.949	0.895	0.949	0.944	0.997	0.953	3.7
Cyclohexane		0.842	0.832	0.855	0.841	0.909	0.856	3.6
2-Butanone	0.395	0.386	0.365	0.382	0.373	0.394	0.382	3.1
Carbon Tetrachloride	0.427	0.412	0.429	0.466	0.485	0.511	0.455	8.5
cis-1,2-Dichloroethene	0.713	0.600	0.569	0.598	0.606	0.634	0.620	8.1
Bromochloromethane	0.364	0.421	0.404	0.415	0.417	0.414	0.406	5.2
Chloroform	0.969	0.967	0.924	0.960	0.950	0.999	0.962	2.6
1,1,1-Trichloroethane	0.848	0.797	0.778	0.851	0.874	0.908	0.843	5.7
Methylcyclohexane	0.593	0.561	0.550	0.580	0.579	0.637	0.583	5.2
Benzene	1.473	1.386	1.313	1.345	1.325	1.406	1.375	4.3
1,2-Dichloroethane	0.514	0.498	0.464	0.482	0.479	0.504	0.490	3.8
Trichloroethene	0.391	0.383	0.358	0.372	0.372	0.395	0.379	3.6
1,2-Dichloropropane	0.366	0.335	0.325	0.344	0.344	0.364	0.347	4.7
Bromodichloromethane	0.404	0.406	0.406	0.455	0.470	0.490	0.438	8.7
4-Methyl-2-Pentanone	0.465	0.459	0.439	0.454	0.434	0.461	0.452	2.8
Toluene	0.911	0.880	0.829	0.864	0.845	0.899	0.871	3.6
t-1,3-Dichloropropene	0.351	0.368	0.434	0.496	0.539	0.559	0.458	19.1
cis-1,3-Dichloropropene	0.419	0.459	0.496	0.553	0.577	0.603	0.518	13.8
1,1,2-Trichloroethane	0.382	0.344	0.326	0.343	0.336	0.352	0.347	5.6

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: MSVOA_X Calibration Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Calibration Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX035272.D RRF005 = VX035273.D RRF020 = VX035274.D
RRF050 = VX035275.D RRF150 = VX035277.D RRF100 = VX035279.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF150	RRF100	$\overline{RRF}$	% RSD
2-Hexanone	0.339	0.342	0.332	0.347	0.322	0.354	0.339	3.3
Dibromochloromethane	0.271	0.290	0.315	0.355	0.375	0.390	0.333	14.4
1,2-Dibromoethane	0.355	0.347	0.345	0.362	0.361	0.379	0.358	3.4
Tetrachloroethene	0.447	0.394	0.356	0.363	0.351	0.386	0.383	9.4
Chlorobenzene	1.214	1.127	0.997	1.030	1.022	1.101	1.082	7.6
Ethyl Benzene	1.993	1.874	1.739	1.854	1.811	1.969	1.873	5.1
m/p-Xylenes	0.731	0.731	0.679	0.710	0.697	0.760	0.718	4
o-Xylene	0.705	0.717	0.669	0.697	0.690	0.745	0.704	3.7
Styrene	1.078	1.132	1.088	1.154	1.147	1.248	1.141	5.3
Bromoform	0.213	0.219	0.234	0.279	0.306	0.321	0.262	17.7
Isopropylbenzene	3.616	3.740	3.546	3.603	3.607	3.818	3.655	2.8
1,1,2,2-Tetrachloroethane	1.225	1.172	1.082	1.102	1.085	1.142	1.134	5
1,3-Dichlorobenzene	1.794	1.735	1.619	1.675	1.721	1.816	1.727	4.3
1,4-Dichlorobenzene	2.166	1.837	1.637	1.681	1.706	1.834	1.810	10.6
1,2-Dichlorobenzene	2.007	1.786	1.599	1.632	1.600	1.738	1.727	9.1
1,2-Dibromo-3-Chloropropane	0.202	0.192	0.214	0.238	0.261	0.258	0.227	12.8
1,2,4-Trichlorobenzene	1.123	0.998	1.002	1.058	1.132	1.201	1.085	7.4
1,2,3-Trichlorobenzene	1.181	1.071	1.004	1.046	1.098	1.156	1.093	6.1
1,2-Dichloroethane-d4		0.633	0.613	0.597	0.573	0.600	0.603	3.7
Dibromofluoromethane		0.302	0.309	0.308	0.297	0.318	0.307	2.6
Toluene-d8		1.179	1.191	1.167	1.087	1.165	1.158	3.5
4-Bromofluorobenzene		0.428	0.442	0.436	0.421	0.450	0.435	2.6

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: MSVOA_X Calibration Date/Time: 04/27/2023 09:40

Lab File ID: VX035327.D Init. Calib. Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.529	0.482		-8.89	20
Chloromethane	0.481	0.397	0.1	-17.46	20
Vinyl Chloride	0.483	0.415		-14.08	20
Bromomethane	0.321	0.282		-12.15	20
Chloroethane	0.282	0.237		-15.96	20
Trichlorofluoromethane	0.755	0.666		-11.79	20
1,1,2-Trichlorotrifluoroethane	0.504	0.445		-11.71	20
1,1-Dichloroethene	0.486	0.422		-13.17	20
Acetone	0.262	0.217		-17.18	20
Carbon Disulfide	1.164	1.050		-9.79	20
Methyl tert-butyl Ether	1.666	1.487		-10.74	20
Methyl Acetate	1.013	0.866		-14.51	20
Methylene Chloride	0.601	0.487		-18.97	20
trans-1,2-Dichloroethene	0.527	0.464		-11.95	20
1,1-Dichloroethane	0.953	0.839	0.1	-11.96	20
Cyclohexane	0.856	0.748		-12.62	20
2-Butanone	0.382	0.327		-14.4	20
Carbon Tetrachloride	0.455	0.426		-6.37	20
cis-1,2-Dichloroethene	0.620	0.534		-13.87	20
Bromochloromethane	0.406	0.399		-1.72	20
Chloroform	0.962	0.862		-10.4	20
1,1,1-Trichloroethane	0.843	0.757		-10.2	20
Methylcyclohexane	0.583	0.517		-11.32	20
Benzene	1.375	1.203		-12.51	20
1,2-Dichloroethane	0.490	0.434		-11.43	20
Trichloroethene	0.379	0.340		-10.29	20
1,2-Dichloropropane	0.347	0.309		-10.95	20
Bromodichloromethane	0.438	0.413		-5.71	20
4-Methyl-2-Pentanone	0.452	0.389		-13.94	20
Toluene	0.871	0.775		-11.02	20
t-1,3-Dichloropropene	0.458	0.460		0.44	20
cis-1,3-Dichloropropene	0.518	0.507		-2.12	20
1,1,2-Trichloroethane	0.347	0.308		-11.24	20
2-Hexanone	0.339	0.301		-11.21	20
Dibromochloromethane	0.333	0.324		-2.7	20
1,2-Dibromoethane	0.358	0.326		-8.94	20
Tetrachloroethene	0.383	0.341		-10.97	20
Chlorobenzene	1.082	0.935	0.3	-13.59	20
Ethyl Benzene	1.873	1.674		-10.63	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: MSVOA_X Calibration Date/Time: 04/27/2023 09:40

Lab File ID: VX035327.D Init. Calib. Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.718	0.646		-10.03	20
o-Xylene	0.704	0.637		-9.52	20
Styrene	1.141	1.049		-8.06	20
Bromoform	0.262	0.261	0.1	-0.38	20
Isopropylbenzene	3.655	3.314		-9.33	20
1,1,2,2-Tetrachloroethane	1.134	0.999	0.3	-11.9	20
1,3-Dichlorobenzene	1.727	1.556		-9.9	20
1,4-Dichlorobenzene	1.810	1.548		-14.48	20
1,2-Dichlorobenzene	1.727	1.511		-12.51	20
1,2-Dibromo-3-Chloropropane	0.227	0.213		-6.17	20
1,2,4-Trichlorobenzene	1.085	1.017		-6.27	20
1,2,3-Trichlorobenzene	1.093	0.973		-10.98	20
1,2-Dichloroethane-d4	0.603	0.564		-6.47	20
Dibromofluoromethane	0.307	0.298		-2.93	20
Toluene-d8	1.158	1.112		-3.97	20
4-Bromofluorobenzene	0.435	0.427		-1.84	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: MSVOA_X Calibration Date/Time: 04/28/2023 10:31

Lab File ID: VX035379.D Init. Calib. Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.529	0.542		2.46	20
Chloromethane	0.481	0.417	0.1	-13.31	20
Vinyl Chloride	0.483	0.445		-7.87	20
Bromomethane	0.321	0.283		-11.84	20
Chloroethane	0.282	0.257		-8.86	20
Trichlorofluoromethane	0.755	0.748		-0.93	20
1,1,2-Trichlorotrifluoroethane	0.504	0.503		-0.2	20
1,1-Dichloroethene	0.486	0.463		-4.73	20
Acetone	0.262	0.258		-1.53	20
Carbon Disulfide	1.164	1.105		-5.07	20
Methyl tert-butyl Ether	1.666	1.641		-1.5	20
Methyl Acetate	1.013	0.945		-6.71	20
Methylene Chloride	0.601	0.523		-12.98	20
trans-1,2-Dichloroethene	0.527	0.504		-4.36	20
1,1-Dichloroethane	0.953	0.921	0.1	-3.36	20
Cyclohexane	0.856	0.815		-4.79	20
2-Butanone	0.382	0.350		-8.38	20
Carbon Tetrachloride	0.455	0.487		7.03	20
cis-1,2-Dichloroethene	0.620	0.591		-4.68	20
Bromochloromethane	0.406	0.397		-2.22	20
Chloroform	0.962	0.958		-0.42	20
1,1,1-Trichloroethane	0.843	0.846		0.36	20
Methylcyclohexane	0.583	0.583		0	20
Benzene	1.375	1.348		-1.96	20
1,2-Dichloroethane	0.490	0.493		0.61	20
Trichloroethene	0.379	0.380		0.26	20
1,2-Dichloropropane	0.347	0.346		-0.29	20
Bromodichloromethane	0.438	0.463		5.71	20
4-Methyl-2-Pentanone	0.452	0.431		-4.65	20
Toluene	0.871	0.869		-0.23	20
t-1,3-Dichloropropene	0.458	0.516		12.66	20
cis-1,3-Dichloropropene	0.518	0.562		8.49	20
1,1,2-Trichloroethane	0.347	0.343		-1.15	20
2-Hexanone	0.339	0.328		-3.24	20
Dibromochloromethane	0.333	0.369		10.81	20
1,2-Dibromoethane	0.358	0.361		0.84	20
Tetrachloroethene	0.383	0.379		-1.04	20
Chlorobenzene	1.082	1.054	0.3	-2.59	20
Ethyl Benzene	1.873	1.894		1.12	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: MSVOA_X Calibration Date/Time: 04/28/2023 10:31

Lab File ID: VX035379.D Init. Calib. Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.718	0.727		1.25	20
o-Xylene	0.704	0.718		1.99	20
Styrene	1.141	1.189		4.21	20
Bromoform	0.262	0.290	0.1	10.69	20
Isopropylbenzene	3.655	3.772		3.2	20
1,1,2,2-Tetrachloroethane	1.134	1.106	0.3	-2.47	20
1,3-Dichlorobenzene	1.727	1.750		1.33	20
1,4-Dichlorobenzene	1.810	1.744		-3.65	20
1,2-Dichlorobenzene	1.727	1.702		-1.45	20
1,2-Dibromo-3-Chloropropane	0.227	0.237		4.41	20
1,2,4-Trichlorobenzene	1.085	1.121		3.32	20
1,2,3-Trichlorobenzene	1.093	1.100		0.64	20
1,2-Dichloroethane-d4	0.603	0.607		0.66	20
Dibromofluoromethane	0.307	0.332		8.14	20
Toluene-d8	1.158	1.204		3.97	20
4-Bromofluorobenzene	0.435	0.468		7.59	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: MSVOA_X Calibration Date/Time: 04/29/2023 11:44

Lab File ID: VX035415.D Init. Calib. Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.529	0.492		-6.99	20
Chloromethane	0.481	0.393	0.1	-18.3	20
Vinyl Chloride	0.483	0.421		-12.84	20
Bromomethane	0.321	0.275		-14.33	20
Chloroethane	0.282	0.247		-12.41	20
Trichlorofluoromethane	0.755	0.697		-7.68	20
1,1,2-Trichlorotrifluoroethane	0.504	0.472		-6.35	20
1,1-Dichloroethene	0.486	0.445		-8.44	20
Acetone	0.262	0.227		-13.36	20
Carbon Disulfide	1.164	1.041		-10.57	20
Methyl tert-butyl Ether	1.666	1.542		-7.44	20
Methyl Acetate	1.013	0.838		-17.27	20
Methylene Chloride	0.601	0.502		-16.47	20
trans-1,2-Dichloroethene	0.527	0.473		-10.25	20
1,1-Dichloroethane	0.953	0.877	0.1	-7.97	20
Cyclohexane	0.856	0.764		-10.75	20
2-Butanone	0.382	0.304		-20.42	20
Carbon Tetrachloride	0.455	0.461		1.32	20
cis-1,2-Dichloroethene	0.620	0.572		-7.74	20
Bromochloromethane	0.406	0.385		-5.17	20
Chloroform	0.962	0.904		-6.03	20
1,1,1-Trichloroethane	0.843	0.810		-3.91	20
Methylcyclohexane	0.583	0.547		-6.18	20
Benzene	1.375	1.268		-7.78	20
1,2-Dichloroethane	0.490	0.452		-7.76	20
Trichloroethene	0.379	0.360		-5.01	20
1,2-Dichloropropane	0.347	0.330		-4.9	20
Bromodichloromethane	0.438	0.439		0.23	20
4-Methyl-2-Pentanone	0.452	0.378		-16.37	20
Toluene	0.871	0.810		-7	20
t-1,3-Dichloropropene	0.458	0.482		5.24	20
cis-1,3-Dichloropropene	0.518	0.535		3.28	20
1,1,2-Trichloroethane	0.347	0.323		-6.92	20
2-Hexanone	0.339	0.285		-15.93	20
Dibromochloromethane	0.333	0.344		3.3	20
1,2-Dibromoethane	0.358	0.337		-5.87	20
Tetrachloroethene	0.383	0.364		-4.96	20
Chlorobenzene	1.082	1.014	0.3	-6.28	20
Ethyl Benzene	1.873	1.783		-4.8	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: MSVOA_X Calibration Date/Time: 04/29/2023 11:44

Lab File ID: VX035415.D Init. Calib. Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.718	0.685		-4.6	20
o-Xylene	0.704	0.675		-4.12	20
Styrene	1.141	1.115		-2.28	20
Bromoform	0.262	0.276	0.1	5.34	20
Isopropylbenzene	3.655	3.586		-1.89	20
1,1,2,2-Tetrachloroethane	1.134	1.024	0.3	-9.7	20
1,3-Dichlorobenzene	1.727	1.660		-3.88	20
1,4-Dichlorobenzene	1.810	1.646		-9.06	20
1,2-Dichlorobenzene	1.727	1.603		-7.18	20
1,2-Dibromo-3-Chloropropane	0.227	0.216		-4.85	20
1,2,4-Trichlorobenzene	1.085	1.064		-1.93	20
1,2,3-Trichlorobenzene	1.093	1.028		-5.95	20
1,2-Dichloroethane-d4	0.603	0.499		-17.25	20
Dibromofluoromethane	0.307	0.279		-9.12	20
Toluene-d8	1.158	1.006		-13.13	20
4-Bromofluorobenzene	0.435	0.378		-13.1	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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LAB CHRONICLE

OrderID:	O2495	**OrderDate:**	4/25/2023 3:22:44 PM
Client:	GEI Consultants, Inc., P.C.	**Project:**	Ferry Point
Contact:	Stacey Ng	**Location:**	N11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O2495-01	**PZ-01**	**Water**			**04/25/23**			**04/25/23**
			SVOC-TCL BNA -20	8270E		04/26/23	04/28/23	
O2495-03	**PZ-02**	**Water**			**04/25/23**			**04/25/23**
			SVOC-TCL BNA -20	8270E		04/26/23	05/01/23	
O2495-05	**GMW-11**	**Water**			**04/25/23**			**04/25/23**
			SVOC-TCL BNA -20	8270E		04/26/23	05/01/23	
O2495-07	**GMW-X**	**Water**			**04/25/23**			**04/25/23**
			SVOC-TCL BNA -20	8270E		04/26/23	04/28/23	
O2495-09	**GMW-5**	**Water**			**04/25/23**			**04/25/23**
			SVOC-TCL BNA -20	8270E		04/26/23	04/27/23	

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Hit Summary Sheet
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Sample ID	Client ID		Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**PZ-01**								
O2495-01	PZ-01	WATER	1-Docosene	*	8.700	J	0	0	ug/L
O2495-01	PZ-01	WATER	Benzophenone	*	2.300	J	0	0	ug/L
O2495-01	PZ-01	WATER	Hexadecane	*	3.500	J	0	0	ug/L
O2495-01	PZ-01	WATER	n-Hexadecanoic acid	*	16.900	J	0	0	ug/L
O2495-01	PZ-01	WATER	Octadecanoic acid	*	28.500	J	0	0	ug/L
O2495-01	PZ-01	WATER	Supraene	*	2.700	J	0	0	ug/L
O2495-01	PZ-01	WATER	unknown16.233	*	2.500	J	0	0	ug/L
			Total Tics :		**65.10**				
			Total Concentration:		**65.10**				
Client ID :	**PZ-02**								
O2495-03	PZ-02	WATER	1-Tetracosene	*	5.500	J	0	0	ug/L
O2495-03	PZ-02	WATER	3,5-Dimethoxy-4-hydroxycinnam	*	2.300	J	0	0	ug/L
O2495-03	PZ-02	WATER	3-Eicosene, (E)-	*	4.800	J	0	0	ug/L
O2495-03	PZ-02	WATER	Benzophenone	*	7.600	J	0	0	ug/L
O2495-03	PZ-02	WATER	Eicosane	*	3.800	J	0	0	ug/L
O2495-03	PZ-02	WATER	Eicosane, 7-hexyl-	*	6.300	J	0	0	ug/L
O2495-03	PZ-02	WATER	Hexacosane	*	6.500	J	0	0	ug/L
O2495-03	PZ-02	WATER	n-Hexadecanoic acid	*	34.200	J	0	0	ug/L
O2495-03	PZ-02	WATER	Nonadecane	*	5.200	J	0	0	ug/L
O2495-03	PZ-02	WATER	Octadecane, 2-methyl-	*	5.400	J	0	0	ug/L
O2495-03	PZ-02	WATER	Octadecanoic acid	*	21.300	J	0	0	ug/L
O2495-03	PZ-02	WATER	Pentadecanoic acid	*	61.600	J	0	0	ug/L
O2495-03	PZ-02	WATER	unknown7.451	*	3.900	J	0	0	ug/L
			Total Tics :		**168.40**				
			Total Concentration:		**168.40**				
Client ID :	**GMW-11**								
O2495-05	GMW-11	WATER	Naphthalene		11.800		1.7	5.1	ug/L
O2495-05	GMW-11	WATER	Carbazole		2.700	J	1.7	5.1	ug/L
			Total Svoc :		**14.50**				
O2495-05	GMW-11	WATER	(+)-2-Bornanone	*	2.200	J	0	0	ug/L
O2495-05	GMW-11	WATER	Benzophenone	*	8.900	J	0	0	ug/L
O2495-05	GMW-11	WATER	n-Hexadecanoic acid	*	8.000	J	0	0	ug/L
O2495-05	GMW-11	WATER	Octadecanoic acid	*	9.300	J	0	0	ug/L
O2495-05	GMW-11	WATER	Pentadecane	*	2.300	J	0	0	ug/L
O2495-05	GMW-11	WATER	Squalene	*	2.300	J	0	0	ug/L
O2495-05	GMW-11	WATER	Trifluoroacetoxy hexadecane	*	5.300	J	0	0	ug/L
			Total Tics :		**38.30**				
			Total Concentration:		**52.80**				

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Hit Summary Sheet
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Sample ID	Client ID		Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**GMW-X**								
O2495-07	GMW-X	WATER	Naphthalene		11.600		1.7	5.1	ug/L
O2495-07	GMW-X	WATER	Carbazole		3.000	J	1.7	5.1	ug/L
			Total Svoc :			**14.60**			
O2495-07	GMW-X	WATER	Dehydroabietic acid	*	3.300	J	0	0	ug/L
O2495-07	GMW-X	WATER	Benzophenone	*	8.300	J	0	0	ug/L
O2495-07	GMW-X	WATER	n-Hexadecanoic acid	*	13.200	J	0	0	ug/L
O2495-07	GMW-X	WATER	Octadecanoic acid	*	8.300	J	0	0	ug/L
			Total Tics :			**33.10**			
			Total Concentration:			**47.70**			
Client ID :	**GMW-5**								
O2495-09	GMW-5	WATER	Benzophenone	*	6.500	J	0	0	ug/L
O2495-09	GMW-5	WATER	n-Hexadecanoic acid	*	14.700	J	0	0	ug/L
O2495-09	GMW-5	WATER	Octadecanoic acid	*	24.400	J	0	0	ug/L
			Total Tics :			**45.60**			
			Total Concentration:			**45.60**			

SAMPLE DATA

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01	SDG No.:	O2495
Lab Sample ID:	O2495-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133122.D	1	04/26/23 09:15	04/28/23 14:26	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01	SDG No.:	O2495
Lab Sample ID:	O2495-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133122.D	1	04/26/23 09:15	04/28/23 14:26	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01	SDG No.:	O2495
Lab Sample ID:	O2495-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133122.D	1	04/26/23 09:15	04/28/23 14:26	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	54.1		10 - 139	36%	SPK: 150
13127-88-3	Phenol-d6	32.0		10 - 134	21%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.8		49 - 133	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.5		52 - 132	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		45 - 141	80%	SPK: 150
1718-51-0	Terphenyl-d14	87.4		45 - 142	87%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	167000	6.734			
1146-65-2	Naphthalene-d8	669000	8.016			
15067-26-2	Acenaphthene-d10	342000	9.769			
1517-22-2	Phenanthrene-d10	610000	11.251			
1719-03-5	Chrysene-d12	347000	13.88			
1520-96-3	Perylene-d12	351000	15.304			
TENTATIVE IDENTIFIED COMPOUNDS						
000119-61-9	Benzophenone	2.30	J		10.5	ug/L
000057-10-3	n-Hexadecanoic acid	16.9	J		11.8	ug/L
000057-11-4	Octadecanoic acid	28.5	J		12.6	ug/L
001599-67-3	1-Docosene	8.70	J		14.5	ug/L
007683-64-9	Supraene	2.70	J		14.7	ug/L
000544-76-3	Hexadecane	3.50	J		15.7	ug/L
	unknown16.233	2.50	J		16.2	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01	SDG No.:	O2495
Lab Sample ID:	O2495-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133122.D	1	04/26/23 09:15	04/28/23 14:26	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02	SDG No.:	O2495
Lab Sample ID:	O2495-03	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133150.D	1	04/26/23 09:15	05/01/23 12:16	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.1	U	3.30	10.1	ug/L
108-95-2	Phenol	5.10	U	1.50	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.10	U	1.70	5.10	ug/L
95-57-8	2-Chlorophenol	5.10	U	1.40	5.10	ug/L
95-48-7	2-Methylphenol	5.10	U	2.10	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.10	U	2.30	5.10	ug/L
98-86-2	Acetophenone	5.10	U	1.80	5.10	ug/L
65794-96-9	3+4-Methylphenols	10.1	U	2.20	10.1	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.10	U	1.70	5.10	ug/L
98-95-3	Nitrobenzene	5.10	U	1.70	5.10	ug/L
78-59-1	Isophorone	5.10	U	1.70	5.10	ug/L
88-75-5	2-Nitrophenol	5.10	U	2.40	5.10	ug/L
105-67-9	2,4-Dimethylphenol	5.10	U	3.00	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.10	U	2.10	5.10	ug/L
120-83-2	2,4-Dichlorophenol	5.10	U	1.70	5.10	ug/L
91-20-3	Naphthalene	5.10	U	1.70	5.10	ug/L
106-47-8	4-Chloroaniline	5.10	U	2.60	5.10	ug/L
87-68-3	Hexachlorobutadiene	5.10	U	1.90	5.10	ug/L
105-60-2	Caprolactam	10.1	U	3.50	10.1	ug/L
59-50-7	4-Chloro-3-methylphenol	5.10	U	1.80	5.10	ug/L
91-57-6	2-Methylnaphthalene	5.10	U	2.30	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	10.1	U	5.80	10.1	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	1.50	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	5.10	U	1.60	5.10	ug/L
92-52-4	1,1-Biphenyl	5.10	U	1.80	5.10	ug/L
91-58-7	2-Chloronaphthalene	5.10	U	1.60	5.10	ug/L
88-74-4	2-Nitroaniline	5.10	U	2.40	5.10	ug/L
131-11-3	Dimethylphthalate	5.10	U	1.90	5.10	ug/L
208-96-8	Acenaphthylene	5.10	U	2.20	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	5.10	U	2.10	5.10	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02	SDG No.:	O2495
Lab Sample ID:	O2495-03	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133150.D	1	04/26/23 09:15	05/01/23 12:16	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.10	U	2.40	5.10	ug/L
83-32-9	Acenaphthene	5.10	U	1.70	5.10	ug/L
51-28-5	2,4-Dinitrophenol	10.1	U	5.50	10.1	ug/L
100-02-7	4-Nitrophenol	10.1	U	2.80	10.1	ug/L
132-64-9	Dibenzofuran	5.10	U	1.60	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	5.10	U	2.60	5.10	ug/L
84-66-2	Diethylphthalate	5.10	U	2.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.10	U	2.20	5.10	ug/L
86-73-7	Fluorene	5.10	U	2.10	5.10	ug/L
100-01-6	4-Nitroaniline	5.10	U	2.40	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.1	U	1.80	10.1	ug/L
86-30-6	n-Nitrosodiphenylamine	5.10	U	2.00	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	5.10	U	2.00	5.10	ug/L
118-74-1	Hexachlorobenzene	5.10	U	1.90	5.10	ug/L
1912-24-9	Atrazine	5.10	U	3.50	5.10	ug/L
87-86-5	Pentachlorophenol	10.1	U	2.60	10.1	ug/L
85-01-8	Phenanthrene	5.10	U	2.00	5.10	ug/L
120-12-7	Anthracene	5.10	U	2.30	5.10	ug/L
86-74-8	Carbazole	5.10	U	1.70	5.10	ug/L
84-74-2	Di-n-butylphthalate	5.10	U	2.40	5.10	ug/L
206-44-0	Fluoranthene	5.10	U	2.10	5.10	ug/L
129-00-0	Pyrene	5.10	U	1.90	5.10	ug/L
85-68-7	Butylbenzylphthalate	5.10	U	2.80	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	10.1	U	5.40	10.1	ug/L
56-55-3	Benzo(a)anthracene	5.10	U	1.50	5.10	ug/L
218-01-9	Chrysene	5.10	U	1.60	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.10	U	3.00	5.10	ug/L
117-84-0	Di-n-octyl phthalate	10.1	U	3.20	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	5.10	U	1.50	5.10	ug/L
207-08-9	Benzo(k)fluoranthene	5.10	U	1.90	5.10	ug/L
50-32-8	Benzo(a)pyrene	5.10	U	2.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.10	U	2.10	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.10	U	2.00	5.10	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02	SDG No.:	O2495
Lab Sample ID:	O2495-03	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133150.D	1	04/26/23 09:15	05/01/23 12:16	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.10	U	1.90	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.10	U	2.10	5.10	ug/L
123-91-1	1,4-Dioxane	5.10	U	2.50	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.10	U	1.30	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	55.0		10 - 139	37%	SPK: 150
13127-88-3	Phenol-d6	32.4		10 - 134	22%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.4		49 - 133	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.1		52 - 132	78%	SPK: 100
118-79-6	2,4,6-Tribromophenol	113		45 - 141	75%	SPK: 150
1718-51-0	Terphenyl-d14	79.4		45 - 142	79%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	199000	6.728			
1146-65-2	Naphthalene-d8	807000	8.016			
15067-26-2	Acenaphthene-d10	429000	9.769			
1517-22-2	Phenanthrene-d10	766000	11.251			
1719-03-5	Chrysene-d12	409000	13.88			
1520-96-3	Perylene-d12	407000	15.304			
TENTATIVE IDENTIFIED COMPOUNDS						
	unknown7.451	3.90	J		7.45	ug/L
000119-61-9	Benzophenone	7.60	J		10.5	ug/L
000057-10-3	n-Hexadecanoic acid	34.2	J		11.8	ug/L
087345-53-7	3,5-Dimethoxy-4-hydroxycinnamalde	2.30	J		11.9	ug/L
000057-11-4	Octadecanoic acid	21.3	J		12.6	ug/L
001002-84-2	Pentadecanoic acid	61.6	J		12.6	ug/L
000629-92-5	Nonadecane	5.20	J		13.5	ug/L
074685-33-9	3-Eicosene, (E)-	4.80	J		13.8	ug/L
055333-99-8	Eicosane, 7-hexyl-	6.30	J		14.1	ug/L
010192-32-2	1-Tetracosene	5.50	J		14.5	ug/L
000630-01-3	Hexacosane	6.50	J		14.6	ug/L
001560-88-9	Octadecane, 2-methyl-	5.40	J		15.1	ug/L
000112-95-8	Eicosane	3.80	J		15.7	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02	SDG No.:	O2495
Lab Sample ID:	O2495-03	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133150.D	1	04/26/23 09:15	05/01/23 12:16	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11	SDG No.:	O2495
Lab Sample ID:	O2495-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133160.D	1	04/26/23 09:15	05/01/23 17:34	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.1	U	3.30	10.1	ug/L
108-95-2	Phenol	5.10	U	1.50	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.10	U	1.70	5.10	ug/L
95-57-8	2-Chlorophenol	5.10	U	1.40	5.10	ug/L
95-48-7	2-Methylphenol	5.10	U	2.10	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.10	U	2.30	5.10	ug/L
98-86-2	Acetophenone	5.10	U	1.80	5.10	ug/L
65794-96-9	3+4-Methylphenols	10.1	U	2.20	10.1	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.10	U	1.70	5.10	ug/L
98-95-3	Nitrobenzene	5.10	U	1.70	5.10	ug/L
78-59-1	Isophorone	5.10	U	1.70	5.10	ug/L
88-75-5	2-Nitrophenol	5.10	U	2.40	5.10	ug/L
105-67-9	2,4-Dimethylphenol	5.10	U	3.00	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.10	U	2.10	5.10	ug/L
120-83-2	2,4-Dichlorophenol	5.10	U	1.70	5.10	ug/L
91-20-3	Naphthalene	11.8		1.70	5.10	ug/L
106-47-8	4-Chloroaniline	5.10	U	2.60	5.10	ug/L
87-68-3	Hexachlorobutadiene	5.10	U	1.90	5.10	ug/L
105-60-2	Caprolactam	10.1	U	3.50	10.1	ug/L
59-50-7	4-Chloro-3-methylphenol	5.10	U	1.80	5.10	ug/L
91-57-6	2-Methylnaphthalene	5.10	U	2.30	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	10.1	U	5.80	10.1	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	1.50	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	5.10	U	1.60	5.10	ug/L
92-52-4	1,1-Biphenyl	5.10	U	1.80	5.10	ug/L
91-58-7	2-Chloronaphthalene	5.10	U	1.60	5.10	ug/L
88-74-4	2-Nitroaniline	5.10	U	2.40	5.10	ug/L
131-11-3	Dimethylphthalate	5.10	U	1.90	5.10	ug/L
208-96-8	Acenaphthylene	5.10	U	2.20	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	5.10	U	2.10	5.10	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11	SDG No.:	O2495
Lab Sample ID:	O2495-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133160.D	1	04/26/23 09:15	05/01/23 17:34	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.10	U	2.40	5.10	ug/L
83-32-9	Acenaphthene	5.10	U	1.70	5.10	ug/L
51-28-5	2,4-Dinitrophenol	10.1	U	5.50	10.1	ug/L
100-02-7	4-Nitrophenol	10.1	U	2.80	10.1	ug/L
132-64-9	Dibenzofuran	5.10	U	1.60	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	5.10	U	2.60	5.10	ug/L
84-66-2	Diethylphthalate	5.10	U	2.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.10	U	2.20	5.10	ug/L
86-73-7	Fluorene	5.10	U	2.10	5.10	ug/L
100-01-6	4-Nitroaniline	5.10	U	2.40	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.1	U	1.80	10.1	ug/L
86-30-6	n-Nitrosodiphenylamine	5.10	U	2.00	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	5.10	U	2.00	5.10	ug/L
118-74-1	Hexachlorobenzene	5.10	U	1.90	5.10	ug/L
1912-24-9	Atrazine	5.10	U	3.50	5.10	ug/L
87-86-5	Pentachlorophenol	10.1	U	2.60	10.1	ug/L
85-01-8	Phenanthrene	5.10	U	2.00	5.10	ug/L
120-12-7	Anthracene	5.10	U	2.30	5.10	ug/L
86-74-8	Carbazole	2.70	J	1.70	5.10	ug/L
84-74-2	Di-n-butylphthalate	5.10	U	2.40	5.10	ug/L
206-44-0	Fluoranthene	5.10	U	2.10	5.10	ug/L
129-00-0	Pyrene	5.10	U	1.90	5.10	ug/L
85-68-7	Butylbenzylphthalate	5.10	U	2.80	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	10.1	U	5.40	10.1	ug/L
56-55-3	Benzo(a)anthracene	5.10	U	1.50	5.10	ug/L
218-01-9	Chrysene	5.10	U	1.60	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.10	U	3.00	5.10	ug/L
117-84-0	Di-n-octyl phthalate	10.1	U	3.20	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	5.10	U	1.50	5.10	ug/L
207-08-9	Benzo(k)fluoranthene	5.10	U	1.90	5.10	ug/L
50-32-8	Benzo(a)pyrene	5.10	U	2.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.10	U	2.10	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.10	U	2.00	5.10	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11	SDG No.:	O2495
Lab Sample ID:	O2495-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133160.D	1	04/26/23 09:15	05/01/23 17:34	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.10	U	1.90	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.10	U	2.10	5.10	ug/L
123-91-1	1,4-Dioxane	5.10	U	2.50	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.10	U	1.30	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	56.7		10 - 139	38%	SPK: 150
13127-88-3	Phenol-d6	33.9		10 - 134	23%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.7		49 - 133	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.5		52 - 132	80%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		45 - 141	80%	SPK: 150
1718-51-0	Terphenyl-d14	93.6		45 - 142	94%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	183000	6.728			
1146-65-2	Naphthalene-d8	760000	8.01			
15067-26-2	Acenaphthene-d10	401000	9.763			
1517-22-2	Phenanthrene-d10	730000	11.245			
1719-03-5	Chrysene-d12	377000	13.88			
1520-96-3	Perylene-d12	370000	15.298			
TENTATIVE IDENTIFIED COMPOUNDS						
000464-49-3	(+)-2-Bornanone	2.20	J		7.76	ug/L
000119-61-9	Benzophenone	8.90	J		10.5	ug/L
000057-10-3	n-Hexadecanoic acid	8.00	J		11.8	ug/L
000057-11-4	Octadecanoic acid	9.30	J		12.6	ug/L
000629-62-9	Pentadecane	2.30	J		13.7	ug/L
006222-03-3	Trifluoroacetoxy hexadecane	5.30	J		13.8	ug/L
000111-02-4	Squalene	2.30	J		14.7	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11	SDG No.:	O2495
Lab Sample ID:	O2495-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133160.D	1	04/26/23 09:15	05/01/23 17:34	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-X	SDG No.:	O2495
Lab Sample ID:	O2495-07	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133136.D	1	04/26/23 09:15	04/28/23 22:58	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.1	U	3.30	10.1	ug/L
108-95-2	Phenol	5.10	U	1.50	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.10	U	1.70	5.10	ug/L
95-57-8	2-Chlorophenol	5.10	U	1.40	5.10	ug/L
95-48-7	2-Methylphenol	5.10	U	2.10	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.10	U	2.30	5.10	ug/L
98-86-2	Acetophenone	5.10	U	1.80	5.10	ug/L
65794-96-9	3+4-Methylphenols	10.1	U	2.20	10.1	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.10	U	1.70	5.10	ug/L
98-95-3	Nitrobenzene	5.10	U	1.70	5.10	ug/L
78-59-1	Isophorone	5.10	U	1.70	5.10	ug/L
88-75-5	2-Nitrophenol	5.10	U	2.40	5.10	ug/L
105-67-9	2,4-Dimethylphenol	5.10	U	3.00	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.10	U	2.10	5.10	ug/L
120-83-2	2,4-Dichlorophenol	5.10	U	1.70	5.10	ug/L
91-20-3	Naphthalene	11.6		1.70	5.10	ug/L
106-47-8	4-Chloroaniline	5.10	U	2.60	5.10	ug/L
87-68-3	Hexachlorobutadiene	5.10	U	1.90	5.10	ug/L
105-60-2	Caprolactam	10.1	U	3.50	10.1	ug/L
59-50-7	4-Chloro-3-methylphenol	5.10	U	1.80	5.10	ug/L
91-57-6	2-Methylnaphthalene	5.10	U	2.30	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	10.1	U	5.80	10.1	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	1.50	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	5.10	U	1.60	5.10	ug/L
92-52-4	1,1-Biphenyl	5.10	U	1.80	5.10	ug/L
91-58-7	2-Chloronaphthalene	5.10	U	1.60	5.10	ug/L
88-74-4	2-Nitroaniline	5.10	U	2.40	5.10	ug/L
131-11-3	Dimethylphthalate	5.10	U	1.90	5.10	ug/L
208-96-8	Acenaphthylene	5.10	U	2.20	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	5.10	U	2.10	5.10	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-X	SDG No.:	O2495
Lab Sample ID:	O2495-07	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133136.D	1	04/26/23 09:15	04/28/23 22:58	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.10	U	2.40	5.10	ug/L
83-32-9	Acenaphthene	5.10	U	1.70	5.10	ug/L
51-28-5	2,4-Dinitrophenol	10.1	U	5.50	10.1	ug/L
100-02-7	4-Nitrophenol	10.1	U	2.80	10.1	ug/L
132-64-9	Dibenzofuran	5.10	U	1.60	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	5.10	U	2.60	5.10	ug/L
84-66-2	Diethylphthalate	5.10	U	2.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.10	U	2.20	5.10	ug/L
86-73-7	Fluorene	5.10	U	2.10	5.10	ug/L
100-01-6	4-Nitroaniline	5.10	U	2.40	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.1	U	1.80	10.1	ug/L
86-30-6	n-Nitrosodiphenylamine	5.10	U	2.00	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	5.10	U	2.00	5.10	ug/L
118-74-1	Hexachlorobenzene	5.10	U	1.90	5.10	ug/L
1912-24-9	Atrazine	5.10	U	3.50	5.10	ug/L
87-86-5	Pentachlorophenol	10.1	U	2.60	10.1	ug/L
85-01-8	Phenanthrene	5.10	U	2.00	5.10	ug/L
120-12-7	Anthracene	5.10	U	2.30	5.10	ug/L
86-74-8	Carbazole	3.00	J	1.70	5.10	ug/L
84-74-2	Di-n-butylphthalate	5.10	U	2.40	5.10	ug/L
206-44-0	Fluoranthene	5.10	U	2.10	5.10	ug/L
129-00-0	Pyrene	5.10	U	1.90	5.10	ug/L
85-68-7	Butylbenzylphthalate	5.10	U	2.80	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	10.1	U	5.40	10.1	ug/L
56-55-3	Benzo(a)anthracene	5.10	U	1.50	5.10	ug/L
218-01-9	Chrysene	5.10	U	1.60	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.10	U	3.00	5.10	ug/L
117-84-0	Di-n-octyl phthalate	10.1	U	3.20	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	5.10	U	1.50	5.10	ug/L
207-08-9	Benzo(k)fluoranthene	5.10	U	1.90	5.10	ug/L
50-32-8	Benzo(a)pyrene	5.10	U	2.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.10	U	2.10	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.10	U	2.00	5.10	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-X	SDG No.:	O2495
Lab Sample ID:	O2495-07	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133136.D	1	04/26/23 09:15	04/28/23 22:58	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.10	U	1.90	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.10	U	2.10	5.10	ug/L
123-91-1	1,4-Dioxane	5.10	U	2.50	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.10	U	1.30	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	53.5		10 - 139	36%	SPK: 150
13127-88-3	Phenol-d6	31.8		10 - 134	21%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.5		49 - 133	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.0		52 - 132	81%	SPK: 100
118-79-6	2,4,6-Tribromophenol	118		45 - 141	79%	SPK: 150
1718-51-0	Terphenyl-d14	68.5		45 - 142	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	179000	6.734			
1146-65-2	Naphthalene-d8	741000	8.016			
15067-26-2	Acenaphthene-d10	377000	9.769			
1517-22-2	Phenanthrene-d10	677000	11.251			
1719-03-5	Chrysene-d12	502000	13.88			
1520-96-3	Perylene-d12	380000	15.304			
TENTATIVE IDENTIFIED COMPOUNDS						
000119-61-9	Benzophenone	8.30	J		10.5	ug/L
000057-10-3	n-Hexadecanoic acid	13.2	J		11.8	ug/L
000057-11-4	Octadecanoic acid	8.30	J		12.6	ug/L
001740-19-8	Dehydroabietic acid	3.30	J		13.7	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-5	SDG No.:	O2495
Lab Sample ID:	O2495-09	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133099.D	1	04/26/23 09:15	04/27/23 14:50	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.2	U	3.30	10.2	ug/L
108-95-2	Phenol	5.10	U	1.50	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.10	U	1.70	5.10	ug/L
95-57-8	2-Chlorophenol	5.10	U	1.40	5.10	ug/L
95-48-7	2-Methylphenol	5.10	U	2.10	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.10	U	2.30	5.10	ug/L
98-86-2	Acetophenone	5.10	U	1.80	5.10	ug/L
65794-96-9	3+4-Methylphenols	10.2	U	2.20	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.60	U	2.00	2.60	ug/L
67-72-1	Hexachloroethane	5.10	U	1.70	5.10	ug/L
98-95-3	Nitrobenzene	5.10	U	1.80	5.10	ug/L
78-59-1	Isophorone	5.10	U	1.70	5.10	ug/L
88-75-5	2-Nitrophenol	5.10	U	2.40	5.10	ug/L
105-67-9	2,4-Dimethylphenol	5.10	U	3.00	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.10	U	2.10	5.10	ug/L
120-83-2	2,4-Dichlorophenol	5.10	U	1.70	5.10	ug/L
91-20-3	Naphthalene	5.10	U	1.70	5.10	ug/L
106-47-8	4-Chloroaniline	5.10	U	2.60	5.10	ug/L
87-68-3	Hexachlorobutadiene	5.10	U	2.00	5.10	ug/L
105-60-2	Caprolactam	10.2	U	3.50	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	5.10	U	1.80	5.10	ug/L
91-57-6	2-Methylnaphthalene	5.10	U	2.30	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	10.2	U	5.90	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	1.60	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	5.10	U	1.60	5.10	ug/L
92-52-4	1,1-Biphenyl	5.10	U	1.80	5.10	ug/L
91-58-7	2-Chloronaphthalene	5.10	U	1.60	5.10	ug/L
88-74-4	2-Nitroaniline	5.10	U	2.40	5.10	ug/L
131-11-3	Dimethylphthalate	5.10	U	1.90	5.10	ug/L
208-96-8	Acenaphthylene	5.10	U	2.20	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	5.10	U	2.10	5.10	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-5	SDG No.:	O2495
Lab Sample ID:	O2495-09	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133099.D	1	04/26/23 09:15	04/27/23 14:50	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.10	U	2.40	5.10	ug/L
83-32-9	Acenaphthene	5.10	U	1.80	5.10	ug/L
51-28-5	2,4-Dinitrophenol	10.2	U	5.60	10.2	ug/L
100-02-7	4-Nitrophenol	10.2	U	2.90	10.2	ug/L
132-64-9	Dibenzofuran	5.10	U	1.60	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	5.10	U	2.60	5.10	ug/L
84-66-2	Diethylphthalate	5.10	U	2.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.10	U	2.30	5.10	ug/L
86-73-7	Fluorene	5.10	U	2.10	5.10	ug/L
100-01-6	4-Nitroaniline	5.10	U	2.40	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.2	U	1.80	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	5.10	U	2.00	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	5.10	U	2.00	5.10	ug/L
118-74-1	Hexachlorobenzene	5.10	U	1.90	5.10	ug/L
1912-24-9	Atrazine	5.10	U	3.60	5.10	ug/L
87-86-5	Pentachlorophenol	10.2	U	2.60	10.2	ug/L
85-01-8	Phenanthrene	5.10	U	2.00	5.10	ug/L
120-12-7	Anthracene	5.10	U	2.30	5.10	ug/L
86-74-8	Carbazole	5.10	U	1.70	5.10	ug/L
84-74-2	Di-n-butylphthalate	5.10	U	2.40	5.10	ug/L
206-44-0	Fluoranthene	5.10	U	2.10	5.10	ug/L
129-00-0	Pyrene	5.10	U	1.90	5.10	ug/L
85-68-7	Butylbenzylphthalate	5.10	U	2.90	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	10.2	U	5.50	10.2	ug/L
56-55-3	Benzo(a)anthracene	5.10	U	1.50	5.10	ug/L
218-01-9	Chrysene	5.10	U	1.60	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.10	U	3.00	5.10	ug/L
117-84-0	Di-n-octyl phthalate	10.2	U	3.20	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	5.10	U	1.50	5.10	ug/L
207-08-9	Benzo(k)fluoranthene	5.10	U	1.90	5.10	ug/L
50-32-8	Benzo(a)pyrene	5.10	U	2.80	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.10	U	2.10	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.10	U	2.00	5.10	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-5	SDG No.:	O2495
Lab Sample ID:	O2495-09	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133099.D	1	04/26/23 09:15	04/27/23 14:50	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.10	U	2.00	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.10	U	2.10	5.10	ug/L
123-91-1	1,4-Dioxane	5.10	U	2.50	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.10	U	1.30	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	54.5		10 - 139	36%	SPK: 150
13127-88-3	Phenol-d6	34.0		10 - 134	23%	SPK: 150
4165-60-0	Nitrobenzene-d5	76.8		49 - 133	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	79.6		52 - 132	80%	SPK: 100
118-79-6	2,4,6-Tribromophenol	123		45 - 141	82%	SPK: 150
1718-51-0	Terphenyl-d14	77.1		45 - 142	77%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	226000	6.734			
1146-65-2	Naphthalene-d8	938000	8.016			
15067-26-2	Acenaphthene-d10	495000	9.769			
1517-22-2	Phenanthrene-d10	866000	11.251			
1719-03-5	Chrysene-d12	522000	13.886			
1520-96-3	Perylene-d12	439000	15.304			
TENTATIVE IDENTIFIED COMPOUNDS						
000119-61-9	Benzophenone	6.50	J		10.5	ug/L
000057-10-3	n-Hexadecanoic acid	14.7	J		11.8	ug/L
000057-11-4	Octadecanoic acid	24.4	J		12.6	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Surrogate Summary

SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
O2495-01	PZ-01	2-Fluorophenol	150	54.1	36		10	139
		Phenol-d6	150	32.0	21		10	134
		Nitrobenzene-d5	100	82.8	83		49	133
		2-Fluorobiphenyl	100	87.5	87		52	132
		2,4,6-Tribromophenol	150	120	80		45	141
		Terphenyl-d14	100	87.4	87		45	142
O2495-03	PZ-02	2-Fluorophenol	150	55.0	37		10	139
		Phenol-d6	150	32.4	22		10	134
		Nitrobenzene-d5	100	79.4	79		49	133
		2-Fluorobiphenyl	100	78.1	78		52	132
		2,4,6-Tribromophenol	150	113	75		45	141
		Terphenyl-d14	100	79.4	79		45	142
O2495-05	GMW-11	2-Fluorophenol	150	56.7	38		10	139
		Phenol-d6	150	33.9	23		10	134
		Nitrobenzene-d5	100	82.7	83		49	133
		2-Fluorobiphenyl	100	80.5	80		52	132
		2,4,6-Tribromophenol	150	120	80		45	141
		Terphenyl-d14	100	93.6	94		45	142
O2495-07	GMW-X	2-Fluorophenol	150	53.5	36		10	139
		Phenol-d6	150	31.8	21		10	134
		Nitrobenzene-d5	100	79.5	79		49	133
		2-Fluorobiphenyl	100	81.0	81		52	132
		2,4,6-Tribromophenol	150	118	79		45	141
		Terphenyl-d14	100	68.5	68		45	142
O2495-09	GMW-5	2-Fluorophenol	150	54.5	36		10	139
		Phenol-d6	150	34.0	23		10	134
		Nitrobenzene-d5	100	76.8	77		49	133
		2-Fluorobiphenyl	100	79.6	80		52	132
		2,4,6-Tribromophenol	150	123	82		45	141
		Terphenyl-d14	100	77.1	77		45	142
PB152410BL	PB152410BL	2-Fluorophenol	150	120	80		10	139
		Phenol-d6	150	118	79		10	134
		Nitrobenzene-d5	100	73.2	73		49	133
		2-Fluorobiphenyl	100	75.3	75		52	132
		2,4,6-Tribromophenol	150	117	78		45	141
		Terphenyl-d14	100	69.1	69		45	142
PB152410BS	PB152410BS	2-Fluorophenol	150	123	82		10	139
		Phenol-d6	150	119	79		10	134
		Nitrobenzene-d5	100	81.5	82		49	133
		2-Fluorobiphenyl	100	81.8	82		52	132
		2,4,6-Tribromophenol	150	127	85		45	141
		Terphenyl-d14	100	80.2	80		45	142
PB152410BSD	PB152410BSD	2-Fluorophenol	150	122	82		10	139
		Phenol-d6	150	119	79		10	134
		Nitrobenzene-d5	100	80.4	80		49	133
		2-Fluorobiphenyl	100	82.7	83		52	132
		2,4,6-Tribromophenol	150	126	84		45	141
		Terphenyl-d14	100	80.4	80		45	142

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: 8270E **DataFile:** BF133094.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB152410BS	Benzaldehyde	50	44.6	ug/L	89				21	131	
	Phenol	50	38.9	ug/L	78				66	118	
	bis(2-Chloroethyl)ether	50	41.9	ug/L	84				62	103	
	2-Chlorophenol	50	45.2	ug/L	90				70	117	
	2-Methylphenol	50	41.5	ug/L	83				69	109	
	2,2-oxybis(1-Chloropropane)	50	39.3	ug/L	79				52	103	
	Acetophenone	50	43.0	ug/L	86				60	104	
	3+4-Methylphenols	50	40.6	ug/L	81				67	106	
	N-Nitroso-di-n-propylamine	50	37.8	ug/L	76				57	107	
	Hexachloroethane	50	43.9	ug/L	88				60	105	
	Nitrobenzene	50	40.7	ug/L	81				58	106	
	Isophorone	50	39.4	ug/L	79				61	102	
	2-Nitrophenol	50	46.4	ug/L	93				70	115	
	2,4-Dimethylphenol	50	43.4	ug/L	87				67	130	
	bis(2-Chloroethoxy)methane	50	39.8	ug/L	80				58	109	
	2,4-Dichlorophenol	50	42.4	ug/L	85				66	115	
	Naphthalene	50	40.6	ug/L	81				64	107	
	4-Chloroaniline	50	23.1	ug/L	46				10	85	
	Hexachlorobutadiene	50	42.2	ug/L	84				56	102	
	Caprolactam	50	46.5	ug/L	93				47	129	
	4-Chloro-3-methylphenol	50	42.7	ug/L	85				65	114	
	2-Methylnaphthalene	50	40.0	ug/L	80				64	107	
	Hexachlorocyclopentadiene	100	90.7	ug/L	91				49	132	
	2,4,6-Trichlorophenol	50	41.8	ug/L	84				61	110	
	2,4,5-Trichlorophenol	50	39.3	ug/L	79				70	106	
	1,1-Biphenyl	50	40.7	ug/L	81				72	98	
	2-Chloronaphthalene	50	41.5	ug/L	83				59	106	
	2-Nitroaniline	50	40.6	ug/L	81				58	107	
	Dimethylphthalate	50	40.5	ug/L	81				64	103	
	Acenaphthylene	50	40.3	ug/L	81				65	108	
	2,6-Dinitrotoluene	50	42.6	ug/L	85				64	110	
	3-Nitroaniline	50	31.9	ug/L	64				28	100	
	Acenaphthene	50	44.9	ug/L	90				59	113	
	2,4-Dinitrophenol	100	100	ug/L	100				48	129	
	4-Nitrophenol	100	90.0	ug/L	90				54	119	
	Dibenzofuran	50	39.9	ug/L	80				65	106	
	2,4-Dinitrotoluene	50	45.3	ug/L	91				60	115	
	Diethylphthalate	50	40.4	ug/L	81				63	105	
	4-Chlorophenyl-phenylether	50	39.8	ug/L	80				61	104	
	Fluorene	50	40.6	ug/L	81				64	107	
	4-Nitroaniline	50	46.5	ug/L	93				57	103	
	4,6-Dinitro-2-methylphenol	50	48.2	ug/L	96				62	132	
	N-Nitrosodiphenylamine	50	39.6	ug/L	79				61	109	
	4-Bromophenyl-phenylether	50	39.6	ug/L	79				73	103	
	Hexachlorobenzene	50	43.8	ug/L	88				73	106	
	Atrazine	50	45.8	ug/L	92				52	134	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: 8270E **DataFile:** BF133094.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB152410BS	Pentachlorophenol	100	77.0	ug/L	77				65	112	
	Phenanthrene	50	40.7	ug/L	81				62	109	
	Anthracene	50	40.4	ug/L	81				65	110	
	Carbazole	50	42.7	ug/L	85				62	106	
	Di-n-butylphthalate	50	42.6	ug/L	85				64	106	
	Fluoranthene	50	42.1	ug/L	84				64	110	
	Pyrene	50	39.1	ug/L	78				71	103	
	Butylbenzylphthalate	50	46.9	ug/L	94				61	105	
	3,3-Dichlorobenzidine	50	41.6	ug/L	83				30	96	
	Benzo(a)anthracene	50	40.6	ug/L	81				62	107	
	Chrysene	50	40.0	ug/L	80				61	108	
	bis(2-Ethylhexyl)phthalate	50	42.7	ug/L	85				59	110	
	Di-n-octyl phthalate	50	49.0	ug/L	98				55	116	
	Benzo(b)fluoranthene	50	45.4	ug/L	91				64	111	
	Benzo(k)fluoranthene	50	43.2	ug/L	86				64	113	
	Benzo(a)pyrene	50	40.1	ug/L	80				72	131	
	Indeno(1,2,3-cd)pyrene	50	45.1	ug/L	90				72	105	
	Dibenz(a,h)anthracene	50	45.0	ug/L	90				63	117	
	Benzo(g,h,i)perylene	50	45.8	ug/L	92				61	120	
	1,2,4,5-Tetrachlorobenzene	50	40.5	ug/L	81				72	101	
	1,4-Dioxane	50	33.5	ug/L	67				38	125	
	2,3,4,6-Tetrachlorophenol	50	43.4	ug/L	87				63	116	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: 8270E **DataFile:** BF133095.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB152410BSD	Benzaldehyde	50	43.3	ug/L	87	3			21	131	20
	Phenol	50	38.8	ug/L	78	0			66	118	20
	bis(2-Chloroethyl)ether	50	41.0	ug/L	82	2			62	103	20
	2-Chlorophenol	50	44.3	ug/L	89	2			70	117	20
	2-Methylphenol	50	42.1	ug/L	84	1			69	109	20
	2,2-oxybis(1-Chloropropane)	50	38.4	ug/L	77	2			52	103	20
	Acetophenone	50	42.9	ug/L	86	0			60	104	20
	3+4-Methylphenols	50	41.1	ug/L	82	1			67	106	20
	N-Nitroso-di-n-propylamine	50	38.0	ug/L	76	1			57	107	20
	Hexachloroethane	50	43.5	ug/L	87	1			60	105	20
	Nitrobenzene	50	40.3	ug/L	81	1			58	106	20
	Isophorone	50	38.9	ug/L	78	1			61	102	20
	2-Nitrophenol	50	46.4	ug/L	93	0			70	115	20
	2,4-Dimethylphenol	50	43.1	ug/L	86	1			67	130	20
	bis(2-Chloroethoxy)methane	50	39.2	ug/L	78	2			58	109	20
	2,4-Dichlorophenol	50	43.0	ug/L	86	1			66	115	20
	Naphthalene	50	42.0	ug/L	84	3			64	107	20
	4-Chloroaniline	50	23.6	ug/L	47	2			10	85	20
	Hexachlorobutadiene	50	42.4	ug/L	85	0			56	102	20
	Caprolactam	50	46.9	ug/L	94	1			47	129	20
	4-Chloro-3-methylphenol	50	43.0	ug/L	86	1			65	114	20
	2-Methylnaphthalene	50	39.7	ug/L	79	1			64	107	20
	Hexachlorocyclopentadiene	100	92.6	ug/L	93	2			49	132	20
	2,4,6-Trichlorophenol	50	42.2	ug/L	84	1			61	110	20
	2,4,5-Trichlorophenol	50	40.2	ug/L	80	2			70	106	20
	1,1-Biphenyl	50	40.8	ug/L	82	0			72	98	20
	2-Chloronaphthalene	50	41.8	ug/L	84	1			59	106	20
	2-Nitroaniline	50	40.1	ug/L	80	1			58	107	20
	Dimethylphthalate	50	40.4	ug/L	81	0			64	103	20
	Acenaphthylene	50	40.5	ug/L	81	0			65	108	20
	2,6-Dinitrotoluene	50	42.3	ug/L	85	1			64	110	20
	3-Nitroaniline	50	32.0	ug/L	64	0			28	100	20
	Acenaphthene	50	45.0	ug/L	90	0			59	113	20
	2,4-Dinitrophenol	100	110	ug/L	110	10			48	129	20
	4-Nitrophenol	100	91.3	ug/L	91	1			54	119	20
	Dibenzofuran	50	39.8	ug/L	80	0			65	106	20
	2,4-Dinitrotoluene	50	45.0	ug/L	90	1			60	115	20
	Diethylphthalate	50	40.6	ug/L	81	0			63	105	20
	4-Chlorophenyl-phenylether	50	39.9	ug/L	80	0			61	104	20
	Fluorene	50	40.7	ug/L	81	0			64	107	20
	4-Nitroaniline	50	46.5	ug/L	93	0			57	103	20
	4,6-Dinitro-2-methylphenol	50	48.2	ug/L	96	0			62	132	20
	N-Nitrosodiphenylamine	50	39.9	ug/L	80	1			61	109	20
	4-Bromophenyl-phenylether	50	40.0	ug/L	80	1			73	103	20
	Hexachlorobenzene	50	43.3	ug/L	87	1			73	106	20
	Atrazine	50	46.5	ug/L	93	2			52	134	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2495

Client: GEI Consultants, Inc., P.C.

Analytical Method: 8270E **DataFile:** BF133095.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB152410BSD	Pentachlorophenol	100	75.7	ug/L	76	2			65	112	20
	Phenanthrene	50	40.8	ug/L	82	0			62	109	20
	Anthracene	50	40.6	ug/L	81	0			65	110	20
	Carbazole	50	42.5	ug/L	85	0			62	106	20
	Di-n-butylphthalate	50	42.2	ug/L	84	1			64	106	20
	Fluoranthene	50	42.3	ug/L	85	0			64	110	20
	Pyrene	50	39.4	ug/L	79	1			71	103	20
	Butylbenzylphthalate	50	47.4	ug/L	95	1			61	105	20
	3,3-Dichlorobenzidine	50	42.1	ug/L	84	1			30	96	20
	Benzo(a)anthracene	50	40.5	ug/L	81	0			62	107	20
	Chrysene	50	40.2	ug/L	80	0			61	108	20
	bis(2-Ethylhexyl)phthalate	50	43.6	ug/L	87	2			59	110	20
	Di-n-octyl phthalate	50	48.6	ug/L	97	1			55	116	20
	Benzo(b)fluoranthene	50	45.6	ug/L	91	0			64	111	20
	Benzo(k)fluoranthene	50	43.4	ug/L	87	0			64	113	20
	Benzo(a)pyrene	50	40.6	ug/L	81	1			72	131	20
	Indeno(1,2,3-cd)pyrene	50	46.9	ug/L	94	4			72	105	20
	Dibenz(a,h)anthracene	50	47.1	ug/L	94	5			63	117	20
	Benzo(g,h,i)perylene	50	47.5	ug/L	95	4			61	120	20
	1,2,4,5-Tetrachlorobenzene	50	41.0	ug/L	82	1			72	101	20
	1,4-Dioxane	50	33.6	ug/L	67	0			38	125	20
	2,3,4,6-Tetrachlorophenol	50	43.5	ug/L	87	0			63	116	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB152410BL

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

Lab File ID: BF133116.D Lab Sample ID: PB152410BL

Instrument ID: BNA_F Date Extracted: 04/26/2023

Matrix: (soil/water) Water Date Analyzed: 04/28/2023

Level: (low/med) LOW Time Analyzed: 11:18

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PZ-01	O2495-01	BF133122.D	04/28/2023
GMW-X	O2495-07	BF133136.D	04/28/2023
PZ-02	O2495-03	BF133150.D	05/01/2023
GMW-11	O2495-05	BF133160.D	05/01/2023
GMW-5	O2495-09	BF133099.D	04/27/2023
PB152410BS	PB152410BS	BF133094.D	04/27/2023
PB152410BSD	PB152410BSD	BF133095.D	04/27/2023

COMMENTS:

Form IV SV

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2495 SDG NO.: O2495

Lab File ID: BF132964.D DFTPP Injection Date: 04/21/2023

Instrument ID: BNA_F DFTPP Injection Time: 12:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.3
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	36.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	45.8
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26.3
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	13.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.9 (18.9) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF132965.D	04/21/2023	13:11
SSTDICC005	SSTDICC005	BF132966.D	04/21/2023	13:42
SSTDICC010	SSTDICC010	BF132967.D	04/21/2023	14:12
SSTDICC020	SSTDICC020	BF132968.D	04/21/2023	14:43
SSTDICCC040	SSTDICCC040	BF132969.D	04/21/2023	15:15
SSTDICC050	SSTDICC050	BF132970.D	04/21/2023	15:47
SSTDICC060	SSTDICC060	BF132971.D	04/21/2023	16:19
SSTDICC080	SSTDICC080	BF132972.D	04/21/2023	16:50

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2495 SDG NO.: O2495

Lab File ID: BF133089.D DFTPP Injection Date: 04/27/2023

Instrument ID: BNA_F DFTPP Injection Time: 09:29

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.3
68	Less than 2.0% of mass 69	0.3 (0.9) 1
69	Mass 69 relative abundance	35.8
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	45.6
197	Less than 2.0% of mass 198	1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	27
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	15.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.6 (18) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF133090.D	04/27/2023	09:59
PB152410BS	PB152410BS	BF133094.D	04/27/2023	12:15
PB152410BSD	PB152410BSD	BF133095.D	04/27/2023	12:45
GMW-5	O2495-09	BF133099.D	04/27/2023	14:50

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2495 SDG NO.: O2495

Lab File ID: BF133112.D DFTPP Injection Date: 04/28/2023

Instrument ID: BNA_F DFTPP Injection Time: 09:14

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.7
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	33.0
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	43.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	27.8
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	16.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.4 (18.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF133113.D	04/28/2023	09:45
PB152410BL	PB152410BL	BF133116.D	04/28/2023	11:18
PZ-01	O2495-01	BF133122.D	04/28/2023	14:26

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2495 SDG NO.: O2495

Lab File ID: BF133123.D DFTPP Injection Date: 04/28/2023

Instrument ID: BNA_F DFTPP Injection Time: 15:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.4
68	Less than 2.0% of mass 69	0.6 (2) 1
69	Mass 69 relative abundance	32.1
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	44.0
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	27.5
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	17.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.4 (18.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF133124.D	04/28/2023	16:17
GMW-X	O2495-07	BF133136.D	04/28/2023	22:58

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2495 SDG NO.: O2495

Lab File ID: BF133146.D DFTPP Injection Date: 05/01/2023

Instrument ID: BNA_F DFTPP Injection Time: 10:10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.9
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	34.4
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	45.9
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	26
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	14.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17 (18.7) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF133147.D	05/01/2023	10:41
PZ-02	O2495-03	BF133150.D	05/01/2023	12:16

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2495 SDG NO.: O2495

Lab File ID: BF133155.D DFTPP Injection Date: 05/01/2023

Instrument ID: BNA_F DFTPP Injection Time: 14:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.2
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	34.1
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	45.8
197	Less than 2.0% of mass 198	1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	25.4
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	13.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	15.8 (18.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF133156.D	05/01/2023	15:25
GMW-11	O2495-05	BF133160.D	05/01/2023	17:34

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/27/2023

Lab File ID: BF133090.D Time Analyzed: 09:59

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	190486	6.74	734979	8.02	380778	9.78
	UPPER LIMIT	380972	7.24	1469960	8.522	761556	10.275
	LOWER LIMIT	95243	6.24	367490	7.522	190389	9.275
	EPA SAMPLE NO.						
01	GMW-5	225876	6.73	938461	8.02	494838	9.77
02	PB152410BS	197994	6.74	795223	8.02	414621	9.78
03	PB152410BSD	191577	6.74	773308	8.02	399504	9.78

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/27/2023

Lab File ID: BF133090.D Time Analyzed: 09:59

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	697429	11.257	504844	13.898	446746	15.316
	UPPER LIMIT	1394860	11.757	1009690	14.398	893492	15.816
	LOWER LIMIT	348715	10.757	252422	13.398	223373	14.816
	EPA SAMPLE NO.						
01	GMW-5	866281	11.25	521668	13.89	439486	15.30
02	PB152410BS	743732	11.26	522731	13.90	466023	15.31
03	PB152410BSD	723645	11.26	505662	13.89	444325	15.31

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/28/2023

Lab File ID: BF133113.D Time Analyzed: 09:45

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	198535	6.739	770653	8.02	402568	9.77
	UPPER LIMIT	397070	7.239	1541310	8.522	805136	10.274
	LOWER LIMIT	99267.5	6.239	385327	7.522	201284	9.274
	EPA SAMPLE NO.						
01	PZ-01	166828	6.73	668752	8.02	341964	9.77
02	PB152410BL	216131	6.73	918056	8.02	498528	9.77

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/28/2023

Lab File ID: BF133113.D Time Analyzed: 09:45

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	728942	11.257	481262	13.892	419069	15.309
	UPPER LIMIT	1457880	11.757	962524	14.392	838138	15.809
	LOWER LIMIT	364471	10.757	240631	13.392	209535	14.809
	EPA SAMPLE NO.						
01	PZ-01	610328	11.25	346614	13.88	350544	15.30
02	PB152410BL	925187	11.25	655772	13.89	589586	15.31

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/28/2023

Lab File ID: BF133124.D Time Analyzed: 16:17

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	169530	6.739	651406	8.02	331291	9.78
	UPPER LIMIT	339060	7.239	1302810	8.522	662582	10.275
	LOWER LIMIT	84765	6.239	325703	7.522	165646	9.275
	EPA SAMPLE NO.						
01	GMW-X	178728	6.73	741436	8.02	377443	9.77

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/28/2023

Lab File ID: BF133124.D Time Analyzed: 16:17

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	609324	11.251	433500	13.892	385479	15.309
	UPPER LIMIT	1218650	11.751	867000	14.392	770958	15.809
	LOWER LIMIT	304662	10.751	216750	13.392	192740	14.809
	EPA SAMPLE NO.						
01	GMW-X	676993	11.25	502251	13.88	380375	15.30

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2023

Lab File ID: BF133147.D Time Analyzed: 10:41

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	217083	6.733	848696	8.02	437359	9.77
	UPPER LIMIT	434166	7.233	1697390	8.516	874718	10.269
	LOWER LIMIT	108542	6.233	424348	7.516	218680	9.269
	EPA SAMPLE NO.						
01	PZ-02	199149	6.73	806970	8.02	428900	9.77

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2023

Lab File ID: BF133147.D Time Analyzed: 10:41

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	726398	11.251	488634	13.892	431751	15.304
	UPPER LIMIT	1452800	11.751	977268	14.392	863502	15.804
	LOWER LIMIT	363199	10.751	244317	13.392	215876	14.804
	EPA SAMPLE NO.						
01	PZ-02	765527	11.25	408531	13.88	406919	15.30

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2023

Lab File ID: BF133156.D Time Analyzed: 15:25

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	201641	6.734	797320	8.02	409305	9.77
	UPPER LIMIT	403282	7.234	1594640	8.516	818610	10.269
	LOWER LIMIT	100821	6.234	398660	7.516	204653	9.269
	EPA SAMPLE NO.						
01	GMW-11	183210	6.73	760278	8.01	400731	9.76

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG NO.: O2495

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2023

Lab File ID: BF133156.D Time Analyzed: 15:25

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	709193	11.251	470586	13.886	409938	15.304
	UPPER LIMIT	1418390	11.751	941172	14.386	819876	15.804
	LOWER LIMIT	354597	10.751	235293	13.386	204969	14.804
	EPA SAMPLE NO.						
01	GMW-11	730478	11.25	376793	13.88	369828	15.30

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152410BL	SDG No.:	O2495
Lab Sample ID:	PB152410BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133116.D	1	04/26/23 09:15	04/28/23 11:18	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152410BL	SDG No.:	O2495
Lab Sample ID:	PB152410BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133116.D	1	04/26/23 09:15	04/28/23 11:18	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152410BL	SDG No.:	O2495
Lab Sample ID:	PB152410BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133116.D	1	04/26/23 09:15	04/28/23 11:18	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	120		10 - 139	80%	SPK: 150
13127-88-3	Phenol-d6	118		10 - 134	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	73.2		49 - 133	73%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.3		52 - 132	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	117		45 - 141	78%	SPK: 150
1718-51-0	Terphenyl-d14	69.1		45 - 142	69%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	216000	6.734			
1146-65-2	Naphthalene-d8	918000	8.022			
15067-26-2	Acenaphthene-d10	499000	9.769			
1517-22-2	Phenanthrene-d10	925000	11.251			
1719-03-5	Chrysene-d12	656000	13.886			
1520-96-3	Perylene-d12	590000	15.309			
TENTATIVE IDENTIFIED COMPOUNDS						
004744-10-9	Propane, 1,1-dimethoxy-	2.40	J		2.12	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	46.4	A		4.95	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152410BS	SDG No.:	O2495
Lab Sample ID:	PB152410BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133094.D	1	04/26/23 09:15	04/27/23 12:15	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	44.6		3.30	10.0	ug/L
108-95-2	Phenol	38.9		1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.9		1.70	5.00	ug/L
95-57-8	2-Chlorophenol	45.2		1.40	5.00	ug/L
95-48-7	2-Methylphenol	41.5		2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	39.3		2.30	5.00	ug/L
98-86-2	Acetophenone	43.0		1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	40.6		2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	37.8		2.00	2.50	ug/L
67-72-1	Hexachloroethane	43.9		1.60	5.00	ug/L
98-95-3	Nitrobenzene	40.7		1.70	5.00	ug/L
78-59-1	Isophorone	39.4		1.70	5.00	ug/L
88-75-5	2-Nitrophenol	46.4		2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	43.4		3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	39.8		2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	42.4		1.70	5.00	ug/L
91-20-3	Naphthalene	40.6		1.70	5.00	ug/L
106-47-8	4-Chloroaniline	23.1		2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	42.2		1.90	5.00	ug/L
105-60-2	Caprolactam	46.5		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	42.7		1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	40.0		2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	90.7	E	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	41.8		1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	39.3		1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	40.7		1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	41.5		1.60	5.00	ug/L
88-74-4	2-Nitroaniline	40.6		2.40	5.00	ug/L
131-11-3	Dimethylphthalate	40.5		1.90	5.00	ug/L
208-96-8	Acenaphthylene	40.3		2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	42.6		2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152410BS	SDG No.:	O2495
Lab Sample ID:	PB152410BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133094.D	1	04/26/23 09:15	04/27/23 12:15	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	31.9		2.40	5.00	ug/L
83-32-9	Acenaphthene	44.9		1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	100	E	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	90.0	E	2.80	10.0	ug/L
132-64-9	Dibenzofuran	39.9		1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	45.3		2.50	5.00	ug/L
84-66-2	Diethylphthalate	40.4		2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	39.8		2.20	5.00	ug/L
86-73-7	Fluorene	40.6		2.00	5.00	ug/L
100-01-6	4-Nitroaniline	46.5		2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.2		1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	39.6		2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	39.6		2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	43.8		1.90	5.00	ug/L
1912-24-9	Atrazine	45.8		3.50	5.00	ug/L
87-86-5	Pentachlorophenol	77.0		2.60	10.0	ug/L
85-01-8	Phenanthrene	40.7		2.00	5.00	ug/L
120-12-7	Anthracene	40.4		2.30	5.00	ug/L
86-74-8	Carbazole	42.7		1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	42.6		2.40	5.00	ug/L
206-44-0	Fluoranthene	42.1		2.10	5.00	ug/L
129-00-0	Pyrene	39.1		1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	46.9		2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	41.6		5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	40.6		1.50	5.00	ug/L
218-01-9	Chrysene	40.0		1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	42.7		2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	49.0		3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	45.4		1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	43.2		1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	40.1		2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	45.1		2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	45.0		2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152410BS	SDG No.:	O2495
Lab Sample ID:	PB152410BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133094.D	1	04/26/23 09:15	04/27/23 12:15	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	45.8		1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	40.5		2.10	5.00	ug/L
123-91-1	1,4-Dioxane	33.5		2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	43.4		1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	123		10 - 139	82%	SPK: 150
13127-88-3	Phenol-d6	119		10 - 134	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.5		49 - 133	82%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.8		52 - 132	82%	SPK: 100
118-79-6	2,4,6-Tribromophenol	127		45 - 141	85%	SPK: 150
1718-51-0	Terphenyl-d14	80.2		45 - 142	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	198000	6.74			
1146-65-2	Naphthalene-d8	795000	8.022			
15067-26-2	Acenaphthene-d10	415000	9.775			
1517-22-2	Phenanthrene-d10	744000	11.257			
1719-03-5	Chrysene-d12	523000	13.898			
1520-96-3	Perylene-d12	466000	15.31			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152410BSD	SDG No.:	O2495
Lab Sample ID:	PB152410BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133095.D	1	04/26/23 09:15	04/27/23 12:45	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	43.3		3.30	10.0	ug/L
108-95-2	Phenol	38.8		1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.0		1.70	5.00	ug/L
95-57-8	2-Chlorophenol	44.3		1.40	5.00	ug/L
95-48-7	2-Methylphenol	42.1		2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	38.4		2.30	5.00	ug/L
98-86-2	Acetophenone	42.9		1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	41.1		2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	38.0		2.00	2.50	ug/L
67-72-1	Hexachloroethane	43.5		1.60	5.00	ug/L
98-95-3	Nitrobenzene	40.3		1.70	5.00	ug/L
78-59-1	Isophorone	38.9		1.70	5.00	ug/L
88-75-5	2-Nitrophenol	46.4		2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	43.1		3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	39.2		2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	43.0		1.70	5.00	ug/L
91-20-3	Naphthalene	42.0		1.70	5.00	ug/L
106-47-8	4-Chloroaniline	23.6		2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	42.4		1.90	5.00	ug/L
105-60-2	Caprolactam	46.9		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	43.0		1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	39.7		2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	92.6	E	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	42.2		1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	40.2		1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	40.8		1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	41.8		1.60	5.00	ug/L
88-74-4	2-Nitroaniline	40.1		2.40	5.00	ug/L
131-11-3	Dimethylphthalate	40.4		1.90	5.00	ug/L
208-96-8	Acenaphthylene	40.5		2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	42.3		2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152410BSD	SDG No.:	O2495
Lab Sample ID:	PB152410BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133095.D	1	04/26/23 09:15	04/27/23 12:45	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	32.0		2.40	5.00	ug/L
83-32-9	Acenaphthene	45.0		1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	110	E	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	91.3	E	2.80	10.0	ug/L
132-64-9	Dibenzofuran	39.8		1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	45.0		2.50	5.00	ug/L
84-66-2	Diethylphthalate	40.6		2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	39.9		2.20	5.00	ug/L
86-73-7	Fluorene	40.7		2.00	5.00	ug/L
100-01-6	4-Nitroaniline	46.5		2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.2		1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	39.9		2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	40.0		2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	43.3		1.90	5.00	ug/L
1912-24-9	Atrazine	46.5		3.50	5.00	ug/L
87-86-5	Pentachlorophenol	75.7		2.60	10.0	ug/L
85-01-8	Phenanthrene	40.8		2.00	5.00	ug/L
120-12-7	Anthracene	40.6		2.30	5.00	ug/L
86-74-8	Carbazole	42.5		1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	42.2		2.40	5.00	ug/L
206-44-0	Fluoranthene	42.3		2.10	5.00	ug/L
129-00-0	Pyrene	39.4		1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	47.4		2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	42.1		5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	40.5		1.50	5.00	ug/L
218-01-9	Chrysene	40.2		1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	43.6		2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	48.6		3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	45.6		1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	43.4		1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	40.6		2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	46.9		2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	47.1		2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152410BSD	SDG No.:	O2495
Lab Sample ID:	PB152410BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133095.D	1	04/26/23 09:15	04/27/23 12:45	PB152410

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	47.5		1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	41.0		2.10	5.00	ug/L
123-91-1	1,4-Dioxane	33.6		2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	43.5		1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	122		10 - 139	82%	SPK: 150
13127-88-3	Phenol-d6	119		10 - 134	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	80.4		49 - 133	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.7		52 - 132	83%	SPK: 100
118-79-6	2,4,6-Tribromophenol	126		45 - 141	84%	SPK: 150
1718-51-0	Terphenyl-d14	80.4		45 - 142	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	192000	6.739			
1146-65-2	Naphthalene-d8	773000	8.022			
15067-26-2	Acenaphthene-d10	400000	9.775			
1517-22-2	Phenanthrene-d10	724000	11.257			
1719-03-5	Chrysene-d12	506000	13.892			
1520-96-3	Perylene-d12	444000	15.309			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF042123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Sat Apr 22 03:30:56 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BF132965.D 5 =BF132966.D 10 =BF132967.D 20 =BF132968.D 40 =BF132969.D 50 =BF132970.D 60 =BF132971.D 80 =BF1329
72.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane	0.714	0.644	0.646	0.612	0.569	0.575	0.539	0.614		9.67
3)		Pyridine	1.675	1.643	1.752	1.673	1.573	1.614	1.488	1.631		5.17
4)		n-Nitrosodimet...	0.933	0.888	0.890	0.847	0.789	0.804	0.765	0.845		7.30
5)	S	2-Fluorophenol	1.587	1.456	1.437	1.322	1.200	1.180	1.085	1.324		13.53
6)		Aniline	2.341	2.241	2.314	2.197	2.008	2.006	1.709	2.117		10.60
7)	S	Phenol-d6	1.918	1.800	1.795	1.629	1.504	1.492	1.366	1.643		12.25
8)		2-Chlorophenol	1.575	1.485	1.479	1.354	1.225	1.208	1.084	1.344		13.31
9)		Benzaldehyde		1.115	1.002	0.762	0.683	0.640	0.545	0.791		28.00
10)	C	Phenol	2.117	1.981	1.990	1.822	1.664	1.643	1.474	1.813		12.70
11)		bis(2-Chloroet...	1.563	1.433	1.459	1.366	1.265	1.252	1.185	1.360		9.85
12)		1,3-Dichlorobe...	1.682	1.566	1.562	1.426	1.310	1.287	1.171	1.429		12.82
13)	C	1,4-Dichlorobe...	1.706	1.570	1.567	1.453	1.297	1.279	1.154	1.432		13.71
14)		1,2-Dichlorobe...	1.599	1.477	1.491	1.324	1.187	1.160	1.007	1.321		16.16
15)		Benzyl Alcohol	1.293	1.244	1.263	1.180	1.060	1.020	0.886	1.135		13.27
16)		2,2'-oxybis(1-...	2.695	2.537	2.568	2.379	2.181	2.176	2.004	2.363		10.63
17)		2-Methylphenol	1.399	1.313	1.314	1.238	1.135	1.140	1.078	1.231		9.56
18)		Hexachloroethane	0.562	0.541	0.544	0.500	0.465	0.454	0.419	0.498		10.80
19)	P	n-Nitroso-di-n...	1.129	1.150	1.087	1.086	1.001	0.913	0.933	0.885	1.023	10.15
20)		3+4-Methylphenols		1.803	1.697	1.649	1.438	1.266	1.209	1.085	1.450	18.90
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.563	0.525	0.502	0.454	0.411	0.407	0.381	0.463	14.72
23)	S	Nitrobenzene-d5		0.407	0.381	0.389	0.379	0.350	0.356	0.332	0.371	6.88
24)		Nitrobenzene		0.411	0.391	0.396	0.382	0.359	0.357	0.331	0.375	7.29
25)		Isophorone		0.754	0.706	0.717	0.710	0.665	0.696	0.677	0.704	4.09
26)	C	2-Nitrophenol		0.172	0.172	0.187	0.192	0.181	0.186	0.179	0.181	4.15
27)		2,4-Dimethylph...		0.344	0.320	0.323	0.319	0.289	0.296	0.284	0.311	6.98
28)		bis(2-Chloroet...		0.470	0.437	0.434	0.420	0.391	0.391	0.370	0.416	8.26
29)	C	2,4-Dichloroph...		0.306	0.291	0.299	0.292	0.268	0.271	0.252	0.283	6.83
30)		1,2,4-Trichlor...		0.335	0.305	0.313	0.295	0.273	0.276	0.253	0.293	9.43
31)		Naphthalene		1.196	1.094	1.079	1.011	0.898	0.910	0.811	1.000	13.40
32)		Benzoic acid		0.144	0.152	0.181	0.211	0.214	0.224	0.217	0.192	17.13
33)		4-Chloroaniline		0.456	0.442	0.444	0.402	0.367	0.374	0.341	0.404	11.08
34)	C	Hexachlorobuta...		0.182	0.174	0.172	0.164	0.150	0.153	0.142	0.162	9.08
35)		Caprolactam		0.096	0.093	0.097	0.100	0.092	0.097	0.092	0.095	3.23
36)	C	4-Chloro-3-met...		0.330	0.317	0.316	0.312	0.284	0.298	0.278	0.305	6.30
37)		2-Methylnaphth...		0.823	0.760	0.739	0.689	0.614	0.616	0.545	0.684	14.25
38)		1-Methylnaphth...		0.776	0.702	0.692	0.641	0.578	0.575	0.513	0.640	14.21

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF042123.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.611	0.578	0.583	0.541	0.495	0.495	0.460	0.538	10.41
41)	P	Hexachlorocycl...	0.286	0.296	0.334	0.334	0.313	0.324	0.307	0.314	5.86
42)	S	2,4,6-Tribromo...	0.211	0.203	0.214	0.208	0.191	0.197	0.184	0.201	5.42
43)	C	2,4,6-Trichlor...	0.396	0.372	0.396	0.381	0.353	0.363	0.343	0.372	5.54
44)		2,4,5-Trichlor...	0.464	0.437	0.452	0.444	0.411	0.418	0.384	0.430	6.33
45)	S	2-Fluorobiphenyl		1.476	1.430	1.210	1.081	1.054	0.922	1.195	18.41
46)		1,1'-Biphenyl	1.887	1.771	1.752	1.598	1.440	1.390	1.263	1.586	14.48
47)		2-Chloronaphth...	1.344	1.228	1.260	1.168	1.074	1.073	0.979	1.161	10.91
48)		2-Nitroaniline	0.373	0.379	0.407	0.402	0.372	0.386	0.366	0.384	4.04
49)		Acenaphthylene	2.146	2.002	2.049	1.893	1.709	1.681	1.504	1.855	12.45
50)		Dimethylphthalate	1.577	1.470	1.496	1.409	1.289	1.296	1.226	1.395	9.19
51)		2,6-Dinitrotol...	0.320	0.312	0.332	0.321	0.304	0.312	0.295	0.314	3.89
52)	C	Acenaphthene	1.448	1.334	1.352	1.258	1.138	1.139	1.026	1.242	11.90
53)		3-Nitroaniline	0.372	0.372	0.394	0.391	0.365	0.371	0.348	0.373	4.23
54)	P	2,4-Dinitrophenol	0.116	0.125	0.157	0.175	0.172	0.180	0.179	0.158	16.93
55)		Dibenzofuran	2.046	1.864	1.856	1.699	1.535	1.516	1.346	1.695	14.39
56)	P	4-Nitrophenol	0.282	0.281	0.303	0.309	0.286	0.285	0.278	0.289	4.10
57)		2,4-Dinitrotol...	0.408	0.398	0.428	0.424	0.389	0.397	0.358	0.400	5.84
58)		Fluorene	1.579	1.434	1.383	1.209	1.094	1.055	0.937	1.241	18.65
59)		2,3,4,6-Tetrac...	0.369	0.342	0.356	0.338	0.316	0.320	0.293	0.333	7.75
60)		Diethylphthalate	1.503	1.395	1.422	1.334	1.224	1.221	1.121	1.317	10.20
61)		4-Chlorophenyl...	0.744	0.689	0.688	0.596	0.535	0.523	0.459	0.605	17.34
62)		4-Nitroaniline	0.351	0.350	0.377	0.347	0.322	0.338	0.316	0.343	5.93
63)		Azobenzene	1.605	1.502	1.513	1.404	1.294	1.284	1.165	1.395	11.15
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.094	0.105	0.125	0.134	0.128	0.131	0.131	0.121	12.81
66)	c	n-Nitrosodiphe...	0.746	0.703	0.704	0.645	0.598	0.597	0.548	0.649	11.04
67)		4-Bromophenyl-...	0.237	0.226	0.229	0.219	0.205	0.209	0.193	0.217	6.98
68)		Hexachlorobenzene	0.236	0.231	0.236	0.225	0.210	0.215	0.203	0.222	5.95
69)		Atrazine	0.203	0.199	0.197	0.194	0.174	0.177	0.164	0.187	8.05
70)	C	Pentachlorophenol	0.150	0.154	0.164	0.170	0.156	0.161	0.153	0.158	4.43
71)		Phenanthrene	1.314	1.187	1.153	1.062	0.972	0.972	0.865	1.075	14.28
72)		Anthracene	1.314	1.214	1.194	1.099	0.992	0.999	0.888	1.100	13.59
73)		Carbazole	1.120	1.068	1.044	0.991	0.896	0.919	0.819	0.980	10.90
74)		Di-n-butylphth...	1.186	1.160	1.191	1.152	1.057	1.046	0.968	1.109	7.68
75)	C	Fluoranthene	1.251	1.164	1.164	1.094	0.992	0.982	0.904	1.079	11.46
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.313	0.374	0.425	0.340	0.288	0.289		0.338	15.86
78)		Pyrene	1.801	1.685	1.720	1.762	1.659	1.722	1.651	1.714	3.18
79)	S	Terphenyl-d14	1.290	1.208	1.208	1.173	1.078	1.119	1.041	1.160	7.41
80)		Butylbenzylpht...	0.487	0.516	0.592	0.665	0.639	0.679	0.671	0.607	12.86
81)		Benzo(a)anthra...	1.506	1.401	1.466	1.417	1.298	1.305	1.234	1.375	7.18
82)		3,3'-Dichlorob...	0.375	0.382	0.423	0.411	0.374	0.382	0.312	0.380	9.23
83)		Chrysene	1.501	1.402	1.426	1.413	1.302	1.322	1.259	1.375	6.10
84)		Bis(2-ethylhex...	0.727	0.743	0.806	0.817	0.759	0.768	0.714	0.762	5.05
85)	c	Di-n-octyl pht...	1.065	1.096	1.296	1.351	1.273	1.319	1.298	1.242	9.14

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF042123.M

86) I	Perylene-d12	----------ISTD----------								
87)	Indeno(1,2,3-c...	1.036	0.939	1.052	1.207	1.180	1.278	1.271	1.138	11.41
88)	Benzo(b)fluora...	1.321	1.257	1.295	1.334	1.247	1.223	1.230	1.272	3.48
89)	Benzo(k)fluora...	1.317	1.332	1.424	1.289	1.177	1.219	1.071	1.261	9.17
90) C	Benzo(a)pyrene	1.181	1.145	1.203	1.202	1.127	1.150	1.099	1.158	3.37
91)	Dibenzo(a,h)an...	0.856	0.786	0.885	1.022	0.980	1.065	1.047	0.949	11.27
92)	Benzo(g,h,i)pe...	0.827	0.732	0.853	1.005	0.989	1.077	1.075	0.937	14.29

(#) = Out of Range

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: BNA_F Calibration Date/Time: 04/27/2023 09:59

Lab File ID: BF133090.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.324	1.241		-6.3	
Benzaldehyde	0.791	0.741		-6.3	
Phenol-d6	1.643	1.511		-8.0	
Phenol	1.813	1.632		-10.0	20.0
bis(2-Chloroethyl)ether	1.360	1.204		-11.5	
2-Chlorophenol	1.344	1.259		-6.3	
2-Methylphenol	1.231	1.179		-4.2	
2,2-oxybis(1-Chloropropane)	2.363	1.934		-18.2	
Acetophenone	0.463	0.430		-7.1	
3+4-Methylphenols	1.450	1.343		-7.4	
n-Nitroso-di-n-propylamine	1.023	0.845	0.050	-17.4	
Nitrobenzene-d5	0.371	0.338		-8.9	
Hexachloroethane	0.498	0.452		-9.2	
Nitrobenzene	0.375	0.343		-8.5	
Isophorone	0.704	0.629		-10.7	
2-Nitrophenol	0.181	0.184		1.7	20.0
2,4-Dimethylphenol	0.311	0.293		-5.8	
bis(2-Chloroethoxy)methane	0.416	0.373		-10.3	
2,4-Dichlorophenol	0.283	0.273		-3.5	20.0
Naphthalene	1.000	0.936		-6.4	
4-Chloroaniline	0.404	0.412		2.0	
Hexachlorobutadiene	0.162	0.152		-6.2	20.0
Caprolactam	0.095	0.099		4.2	
4-Chloro-3-methylphenol	0.305	0.294		-3.6	20.0
2-Methylnaphthalene	0.684	0.643		-6.0	
Hexachlorocyclopentadiene	0.314	0.291	0.050	-7.3	
2,4,6-Trichlorophenol	0.372	0.347		-6.7	20.0
2-Fluorobiphenyl	1.195	1.150		-3.8	
2,4,5-Trichlorophenol	0.430	0.423		-1.6	
1,1-Biphenyl	1.586	1.475		-7.0	
2-Chloronaphthalene	1.161	1.090		-6.1	
2-Nitroaniline	0.384	0.370		-3.6	
Dimethylphthalate	1.395	1.319		-5.4	
Acenaphthylene	1.855	1.736		-6.4	
2,6-Dinitrotoluene	0.314	0.312		-0.6	
3-Nitroaniline	0.373	0.384		2.9	
Acenaphthene	1.242	1.171		-5.7	20.0
2,4-Dinitrophenol	0.158	0.180	0.050	13.9	
4-Nitrophenol	0.289	0.292	0.050	1.0	
Dibenzofuran	1.695	1.588		-6.3	
2,4-Dinitrotoluene	0.400	0.413		3.3	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: BNA_F Calibration Date/Time: 04/27/2023 09:59

Lab File ID: BF133090.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.317	1.254		-4.8	
4-Chlorophenyl-phenylether	0.605	0.577		-4.6	
Fluorene	1.241	1.197		-3.5	
4-Nitroaniline	0.343	0.383		11.7	
4,6-Dinitro-2-methylphenol	0.121	0.132		9.1	
n-Nitrosodiphenylamine	0.649	0.597		-8.0	20.0
2,4,6-Tribromophenol	0.201	0.206		2.5	
4-Bromophenyl-phenylether	0.217	0.199		-8.3	
Hexachlorobenzene	0.222	0.208		-6.3	
Atrazine	0.187	0.183		-2.1	
Pentachlorophenol	0.158	0.156		-1.3	20.0
Phenanthrene	1.075	1.003		-6.7	
Anthracene	1.100	1.033		-6.1	
Carbazole	0.980	0.947		-3.4	
Di-n-butylphthalate	1.109	1.087		-2.0	
Fluoranthene	1.079	1.054		-2.3	20.0
Pyrene	1.714	1.498		-12.6	
Terphenyl-d14	1.160	1.009		-13.1	
Butylbenzylphthalate	0.607	0.637		4.9	
3,3-Dichlorobenzidine	0.380	0.411		8.2	
Benzo(a)anthracene	1.375	1.240		-9.8	
Chrysene	1.375	1.235		-10.2	
Bis(2-ethylhexyl)phthalate	0.762	0.739		-3.0	
Di-n-octyl phthalate	1.242	1.302		4.8	20.0
Benzo(b)fluoranthene	1.272	1.182		-7.1	
Benzo(k)fluoranthene	1.261	1.204		-4.5	
Benzo(a)pyrene	1.158	1.083		-6.5	20.0
Indeno(1,2,3-cd)pyrene	1.138	1.072		-5.8	
Dibenzo(a,h)anthracene	0.949	0.896		-5.6	
Benzo(g,h,i)perylene	0.937	0.900		-3.9	
1,2,4,5-Tetrachlorobenzene	0.538	0.495		-8.0	
1,4-Dioxane	0.614	0.552		-10.1	20.0
2,3,4,6-Tetrachlorophenol	0.333	0.328		-1.5	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: BNA_F Calibration Date/Time: 04/28/2023 09:45

Lab File ID: BF133113.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.324	1.213		-8.4	
Benzaldehyde	0.791	0.737		-6.8	
Phenol-d6	1.643	1.516		-7.7	
Phenol	1.813	1.635		-9.8	20.0
bis(2-Chloroethyl)ether	1.360	1.219		-10.4	
2-Chlorophenol	1.344	1.249		-7.1	
2-Methylphenol	1.231	1.193		-3.1	
2,2-oxybis(1-Chloropropane)	2.363	1.957		-17.2	
Acetophenone	0.463	0.435		-6.0	
3+4-Methylphenols	1.450	1.373		-5.3	
n-Nitroso-di-n-propylamine	1.023	0.877	0.050	-14.3	
Nitrobenzene-d5	0.371	0.349		-5.9	
Hexachloroethane	0.498	0.459		-7.8	
Nitrobenzene	0.375	0.352		-6.1	
Isophorone	0.704	0.647		-8.1	
2-Nitrophenol	0.181	0.188		3.9	20.0
2,4-Dimethylphenol	0.311	0.299		-3.9	
bis(2-Chloroethoxy)methane	0.416	0.373		-10.3	
2,4-Dichlorophenol	0.283	0.276		-2.5	20.0
Naphthalene	1.000	0.944		-5.6	
4-Chloroaniline	0.404	0.411		1.7	
Hexachlorobutadiene	0.162	0.153		-5.6	20.0
Caprolactam	0.095	0.096		1.1	
4-Chloro-3-methylphenol	0.305	0.300		-1.6	20.0
2-Methylnaphthalene	0.684	0.643		-6.0	
Hexachlorocyclopentadiene	0.314	0.293	0.050	-6.7	
2,4,6-Trichlorophenol	0.372	0.357		-4.0	20.0
2-Fluorobiphenyl	1.195	1.143		-4.4	
2,4,5-Trichlorophenol	0.430	0.417		-3.0	
1,1-Biphenyl	1.586	1.462		-7.8	
2-Chloronaphthalene	1.161	1.082		-6.8	
2-Nitroaniline	0.384	0.363		-5.5	
Dimethylphthalate	1.395	1.316		-5.7	
Acenaphthylene	1.855	1.739		-6.3	
2,6-Dinitrotoluene	0.314	0.309		-1.6	
3-Nitroaniline	0.373	0.366		-1.9	
Acenaphthene	1.242	1.177		-5.2	20.0
2,4-Dinitrophenol	0.158	0.170	0.050	7.6	
4-Nitrophenol	0.289	0.275	0.050	-4.8	
Dibenzofuran	1.695	1.575		-7.1	
2,4-Dinitrotoluene	0.400	0.408		2.0	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: BNA_F Calibration Date/Time: 04/28/2023 09:45

Lab File ID: BF133113.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.317	1.232		-6.5	
4-Chlorophenyl-phenylether	0.605	0.570		-5.8	
Fluorene	1.241	1.176		-5.2	
4-Nitroaniline	0.343	0.363		5.8	
4,6-Dinitro-2-methylphenol	0.121	0.133		9.9	
n-Nitrosodiphenylamine	0.649	0.598		-7.9	20.0
2,4,6-Tribromophenol	0.201	0.201		0.0	
4-Bromophenyl-phenylether	0.217	0.197		-9.2	
Hexachlorobenzene	0.222	0.210		-5.4	
Atrazine	0.187	0.182		-2.7	
Pentachlorophenol	0.158	0.150		-5.1	20.0
Phenanthrene	1.075	0.979		-8.9	
Anthracene	1.100	1.001		-9.0	
Carbazole	0.980	0.916		-6.5	
Di-n-butylphthalate	1.109	1.047		-5.6	
Fluoranthene	1.079	1.007		-6.7	20.0
Pyrene	1.714	1.572		-8.3	
Terphenyl-d14	1.160	1.041		-10.3	
Butylbenzylphthalate	0.607	0.658		8.4	
3,3-Dichlorobenzidine	0.380	0.409		7.6	
Benzo(a)anthracene	1.375	1.249		-9.2	
Chrysene	1.375	1.254		-8.8	
Bis(2-ethylhexyl)phthalate	0.762	0.755		-0.9	
Di-n-octyl phthalate	1.242	1.288		3.7	20.0
Benzo(b)fluoranthene	1.272	1.240		-2.5	
Benzo(k)fluoranthene	1.261	1.126		-10.7	
Benzo(a)pyrene	1.158	1.084		-6.4	20.0
Indeno(1,2,3-cd)pyrene	1.138	1.146		0.7	
Dibenzo(a,h)anthracene	0.949	0.947		-0.2	
Benzo(g,h,i)perylene	0.937	0.954		1.8	
1,2,4,5-Tetrachlorobenzene	0.538	0.499		-7.2	
1,4-Dioxane	0.614	0.550		-10.4	20.0
2,3,4,6-Tetrachlorophenol	0.333	0.310		-6.9	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: BNA_F Calibration Date/Time: 04/28/2023 16:17

Lab File ID: BF133124.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.324	1.272		-3.9	
Benzaldehyde	0.791	0.738		-6.7	
Phenol-d6	1.643	1.517		-7.7	
Phenol	1.813	1.606		-11.4	20.0
bis(2-Chloroethyl)ether	1.360	1.206		-11.3	
2-Chlorophenol	1.344	1.256		-6.5	
2-Methylphenol	1.231	1.141		-7.3	
2,2-oxybis(1-Chloropropane)	2.363	1.922		-18.7	
Acetophenone	0.463	0.428		-7.6	
3+4-Methylphenols	1.450	1.336		-7.9	
n-Nitroso-di-n-propylamine	1.023	0.846	0.050	-17.3	
Nitrobenzene-d5	0.371	0.340		-8.4	
Hexachloroethane	0.498	0.450		-9.6	
Nitrobenzene	0.375	0.346		-7.7	
Isophorone	0.704	0.622		-11.6	
2-Nitrophenol	0.181	0.185		2.2	20.0
2,4-Dimethylphenol	0.311	0.290		-6.8	
bis(2-Chloroethoxy)methane	0.416	0.371		-10.8	
2,4-Dichlorophenol	0.283	0.272		-3.9	20.0
Naphthalene	1.000	0.957		-4.3	
4-Chloroaniline	0.404	0.405		0.2	
Hexachlorobutadiene	0.162	0.156		-3.7	20.0
Caprolactam	0.095	0.097		2.1	
4-Chloro-3-methylphenol	0.305	0.288		-5.6	20.0
2-Methylnaphthalene	0.684	0.643		-6.0	
Hexachlorocyclopentadiene	0.314	0.287	0.050	-8.6	
2,4,6-Trichlorophenol	0.372	0.363		-2.4	20.0
2-Fluorobiphenyl	1.195	1.189		-0.5	
2,4,5-Trichlorophenol	0.430	0.417		-3.0	
1,1-Biphenyl	1.586	1.490		-6.1	
2-Chloronaphthalene	1.161	1.090		-6.1	
2-Nitroaniline	0.384	0.356		-7.3	
Dimethylphthalate	1.395	1.332		-4.5	
Acenaphthylene	1.855	1.789		-3.6	
2,6-Dinitrotoluene	0.314	0.314		0.0	
3-Nitroaniline	0.373	0.371		-0.5	
Acenaphthene	1.242	1.196		-3.7	20.0
2,4-Dinitrophenol	0.158	0.173	0.050	9.5	
4-Nitrophenol	0.289	0.282	0.050	-2.4	
Dibenzofuran	1.695	1.613		-4.8	
2,4-Dinitrotoluene	0.400	0.416		4.0	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: BNA_F Calibration Date/Time: 04/28/2023 16:17

Lab File ID: BF133124.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.317	1.259		-4.4	
4-Chlorophenyl-phenylether	0.605	0.587		-3.0	
Fluorene	1.241	1.224		-1.4	
4-Nitroaniline	0.343	0.377		9.9	
4,6-Dinitro-2-methylphenol	0.121	0.130		7.4	
n-Nitrosodiphenylamine	0.649	0.594		-8.5	20.0
2,4,6-Tribromophenol	0.201	0.205		2.0	
4-Bromophenyl-phenylether	0.217	0.201		-7.4	
Hexachlorobenzene	0.222	0.208		-6.3	
Atrazine	0.187	0.181		-3.2	
Pentachlorophenol	0.158	0.151		-4.4	20.0
Phenanthrene	1.075	0.996		-7.3	
Anthracene	1.100	1.043		-5.2	
Carbazole	0.980	0.934		-4.7	
Di-n-butylphthalate	1.109	1.096		-1.2	
Fluoranthene	1.079	1.073		-0.6	20.0
Pyrene	1.714	1.518		-11.4	
Terphenyl-d14	1.160	1.040		-10.3	
Butylbenzylphthalate	0.607	0.642		5.8	
3,3-Dichlorobenzidine	0.380	0.405		6.6	
Benzo(a)anthracene	1.375	1.253		-8.9	
Chrysene	1.375	1.271		-7.6	
Bis(2-ethylhexyl)phthalate	0.762	0.741		-2.8	
Di-n-octyl phthalate	1.242	1.246		0.3	20.0
Benzo(b)fluoranthene	1.272	1.161		-8.7	
Benzo(k)fluoranthene	1.261	1.225		-2.9	
Benzo(a)pyrene	1.158	1.104		-4.7	20.0
Indeno(1,2,3-cd)pyrene	1.138	1.199		5.4	
Dibenzo(a,h)anthracene	0.949	0.998		5.2	
Benzo(g,h,i)perylene	0.937	1.005		7.3	
1,2,4,5-Tetrachlorobenzene	0.538	0.512		-4.8	
1,4-Dioxane	0.614	0.587		-4.4	20.0
2,3,4,6-Tetrachlorophenol	0.333	0.320		-3.9	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: BNA_F Calibration Date/Time: 05/01/2023 10:41

Lab File ID: BF133147.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.324	1.247		-5.8	
Benzaldehyde	0.791	0.752		-4.9	
Phenol-d6	1.643	1.550		-5.7	
Phenol	1.813	1.675		-7.6	20.0
bis(2-Chloroethyl)ether	1.360	1.268		-6.8	
2-Chlorophenol	1.344	1.290		-4.0	
2-Methylphenol	1.231	1.195		-2.9	
2,2-oxybis(1-Chloropropane)	2.363	2.033		-14.0	
Acetophenone	0.463	0.431		-6.9	
3+4-Methylphenols	1.450	1.342		-7.4	
n-Nitroso-di-n-propylamine	1.023	0.874	0.050	-14.6	
Nitrobenzene-d5	0.371	0.348		-6.2	
Hexachloroethane	0.498	0.469		-5.8	
Nitrobenzene	0.375	0.354		-5.6	
Isophorone	0.704	0.652		-7.4	
2-Nitrophenol	0.181	0.188		3.9	20.0
2,4-Dimethylphenol	0.311	0.301		-3.2	
bis(2-Chloroethoxy)methane	0.416	0.383		-7.9	
2,4-Dichlorophenol	0.283	0.275		-2.8	20.0
Naphthalene	1.000	0.943		-5.7	
4-Chloroaniline	0.404	0.412		2.0	
Hexachlorobutadiene	0.162	0.152		-6.2	20.0
Caprolactam	0.095	0.096		1.1	
4-Chloro-3-methylphenol	0.305	0.300		-1.6	20.0
2-Methylnaphthalene	0.684	0.638		-6.7	
Hexachlorocyclopentadiene	0.314	0.290	0.050	-7.6	
2,4,6-Trichlorophenol	0.372	0.353		-5.1	20.0
2-Fluorobiphenyl	1.195	1.110		-7.1	
2,4,5-Trichlorophenol	0.430	0.413		-4.0	
1,1-Biphenyl	1.586	1.458		-8.1	
2-Chloronaphthalene	1.161	1.089		-6.2	
2-Nitroaniline	0.384	0.364		-5.2	
Dimethylphthalate	1.395	1.310		-6.1	
Acenaphthylene	1.855	1.719		-7.3	
2,6-Dinitrotoluene	0.314	0.304		-3.2	
3-Nitroaniline	0.373	0.366		-1.9	
Acenaphthene	1.242	1.165		-6.2	20.0
2,4-Dinitrophenol	0.158	0.167	0.050	5.7	
4-Nitrophenol	0.289	0.277	0.050	-4.2	
Dibenzofuran	1.695	1.563		-7.8	
2,4-Dinitrotoluene	0.400	0.394		-1.5	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: BNA_F Calibration Date/Time: 05/01/2023 10:41

Lab File ID: BF133147.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.317	1.153		-12.5	
4-Chlorophenyl-phenylether	0.605	0.537		-11.2	
Fluorene	1.241	1.098		-11.5	
4-Nitroaniline	0.343	0.348		1.5	
4,6-Dinitro-2-methylphenol	0.121	0.130		7.4	
n-Nitrosodiphenylamine	0.649	0.608		-6.3	20.0
2,4,6-Tribromophenol	0.201	0.186		-7.5	
4-Bromophenyl-phenylether	0.217	0.203		-6.5	
Hexachlorobenzene	0.222	0.214		-3.6	
Atrazine	0.187	0.181		-3.2	
Pentachlorophenol	0.158	0.156		-1.3	20.0
Phenanthrene	1.075	1.000		-7.0	
Anthracene	1.100	1.030		-6.4	
Carbazole	0.980	0.925		-5.6	
Di-n-butylphthalate	1.109	1.065		-4.0	
Fluoranthene	1.079	1.037		-3.9	20.0
Pyrene	1.714	1.573		-8.2	
Terphenyl-d14	1.160	1.029		-11.3	
Butylbenzylphthalate	0.607	0.643		5.9	
3,3-Dichlorobenzidine	0.380	0.394		3.7	
Benzo(a)anthracene	1.375	1.271		-7.6	
Chrysene	1.375	1.286		-6.5	
Bis(2-ethylhexyl)phthalate	0.762	0.778		2.1	
Di-n-octyl phthalate	1.242	1.340		7.9	20.0
Benzo(b)fluoranthene	1.272	1.182		-7.1	
Benzo(k)fluoranthene	1.261	1.204		-4.5	
Benzo(a)pyrene	1.158	1.096		-5.4	20.0
Indeno(1,2,3-cd)pyrene	1.138	1.118		-1.8	
Dibenzo(a,h)anthracene	0.949	0.933		-1.7	
Benzo(g,h,i)perylene	0.937	0.949		1.3	
1,2,4,5-Tetrachlorobenzene	0.538	0.491		-8.7	
1,4-Dioxane	0.614	0.578		-5.9	20.0
2,3,4,6-Tetrachlorophenol	0.333	0.301		-9.6	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: BNA_F Calibration Date/Time: 05/01/2023 15:25

Lab File ID: BF133156.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.324	1.266		-4.4	
Benzaldehyde	0.791	0.766		-3.2	
Phenol-d6	1.643	1.586		-3.5	
Phenol	1.813	1.695		-6.5	20.0
bis(2-Chloroethyl)ether	1.360	1.281		-5.8	
2-Chlorophenol	1.344	1.302		-3.1	
2-Methylphenol	1.231	1.183		-3.9	
2,2-oxybis(1-Chloropropane)	2.363	2.102		-11.0	
Acetophenone	0.463	0.440		-5.0	
3+4-Methylphenols	1.450	1.379		-4.9	
n-Nitroso-di-n-propylamine	1.023	0.897	0.050	-12.3	
Nitrobenzene-d5	0.371	0.357		-3.8	
Hexachloroethane	0.498	0.480		-3.6	
Nitrobenzene	0.375	0.363		-3.2	
Isophorone	0.704	0.663		-5.8	
2-Nitrophenol	0.181	0.188		3.9	20.0
2,4-Dimethylphenol	0.311	0.301		-3.2	
bis(2-Chloroethoxy)methane	0.416	0.393		-5.5	
2,4-Dichlorophenol	0.283	0.281		-0.7	20.0
Naphthalene	1.000	0.961		-3.9	
4-Chloroaniline	0.404	0.422		4.5	
Hexachlorobutadiene	0.162	0.158		-2.5	20.0
Caprolactam	0.095	0.100		5.3	
4-Chloro-3-methylphenol	0.305	0.304		-0.3	20.0
2-Methylnaphthalene	0.684	0.664		-2.9	
Hexachlorocyclopentadiene	0.314	0.297	0.050	-5.4	
2,4,6-Trichlorophenol	0.372	0.364		-2.2	20.0
2-Fluorobiphenyl	1.195	1.159		-3.0	
2,4,5-Trichlorophenol	0.430	0.426		-0.9	
1,1-Biphenyl	1.586	1.520		-4.2	
2-Chloronaphthalene	1.161	1.121		-3.4	
2-Nitroaniline	0.384	0.387		0.8	
Dimethylphthalate	1.395	1.346		-3.5	
Acenaphthylene	1.855	1.818		-2.0	
2,6-Dinitrotoluene	0.314	0.315		0.3	
3-Nitroaniline	0.373	0.382		2.4	
Acenaphthene	1.242	1.096		-11.8	20.0
2,4-Dinitrophenol	0.158	0.171	0.050	8.2	
4-Nitrophenol	0.289	0.274	0.050	-5.2	
Dibenzofuran	1.695	1.599		-5.7	
2,4-Dinitrotoluene	0.400	0.409		2.3	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2495 SAS No.: O2495 SDG No.: O2495

Instrument ID: BNA_F Calibration Date/Time: 05/01/2023 15:25

Lab File ID: BF133156.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.317	1.220		-7.4	
4-Chlorophenyl-phenylether	0.605	0.565		-6.6	
Fluorene	1.241	1.157		-6.8	
4-Nitroaniline	0.343	0.357		4.1	
4,6-Dinitro-2-methylphenol	0.121	0.134		10.7	
n-Nitrosodiphenylamine	0.649	0.617		-4.9	20.0
2,4,6-Tribromophenol	0.201	0.201		0.0	
4-Bromophenyl-phenylether	0.217	0.210		-3.2	
Hexachlorobenzene	0.222	0.220		-0.9	
Atrazine	0.187	0.187		0.0	
Pentachlorophenol	0.158	0.157		-0.6	20.0
Phenanthrene	1.075	1.017		-5.4	
Anthracene	1.100	1.053		-4.3	
Carbazole	0.980	0.945		-3.6	
Di-n-butylphthalate	1.109	1.096		-1.2	
Fluoranthene	1.079	1.048		-2.9	20.0
Pyrene	1.714	1.636		-4.6	
Terphenyl-d14	1.160	1.108		-4.5	
Butylbenzylphthalate	0.607	0.715		17.8	
3,3-Dichlorobenzidine	0.380	0.414		8.9	
Benzo(a)anthracene	1.375	1.286		-6.5	
Chrysene	1.375	1.317		-4.2	
Bis(2-ethylhexyl)phthalate	0.762	0.811		6.4	
Di-n-octyl phthalate	1.242	1.301		4.8	20.0
Benzo(b)fluoranthene	1.272	1.253		-1.5	
Benzo(k)fluoranthene	1.261	1.182		-6.3	
Benzo(a)pyrene	1.158	1.123		-3.0	20.0
Indeno(1,2,3-cd)pyrene	1.138	1.198		5.3	
Dibenzo(a,h)anthracene	0.949	0.998		5.2	
Benzo(g,h,i)perylene	0.937	1.018		8.6	
1,2,4,5-Tetrachlorobenzene	0.538	0.504		-6.3	
1,4-Dioxane	0.614	0.601		-2.1	20.0
2,3,4,6-Tetrachlorophenol	0.333	0.321		-3.6	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey - 07092
Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	O2495	**OrderDate:**	4/25/2023 3:22:44 PM
Client:	GEI Consultants, Inc., P.C.	**Project:**	Ferry Point
Contact:	Stacey Ng	**Location:**	N11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O2495-01	**PZ-01**	**Water**			**04/25/23**			**04/25/23**
			Mercury	7470A		04/28/23	04/28/23	
			Metals ICP-TAL	6010D		05/02/23	05/04/23	
O2495-02	**PZ-01**	**Water**			**04/25/23**			**04/25/23**
			Dissolved ICP-TAL Metals	6010D		05/02/23	05/04/23	
			Dissolved Mercury	7470A		05/02/23	05/02/23	
O2495-03	**PZ-02**	**Water**			**04/25/23**			**04/25/23**
			Mercury	7470A		04/28/23	04/28/23	
			Metals ICP-TAL	6010D		05/02/23	05/03/23	
O2495-04	**PZ-02**	**Water**			**04/25/23**			**04/25/23**
			Dissolved ICP-TAL Metals	6010D		05/02/23	05/03/23	
			Dissolved Mercury	7470A		05/02/23	05/02/23	
O2495-05	**GMW-11**	**Water**			**04/25/23**			**04/25/23**
			Mercury	7470A		04/28/23	04/28/23	
			Metals ICP-TAL	6010D		05/02/23	05/03/23	
O2495-06	**GMW-11**	**Water**			**04/25/23**			**04/25/23**
			Dissolved ICP-TAL Metals	6010D		05/02/23	05/03/23	
			Dissolved Mercury	7470A		05/02/23	05/02/23	
O2495-07	**GMW-X**	**Water**			**04/25/23**			**04/25/23**
			Mercury	7470A		04/28/23	04/28/23	
			Metals ICP-TAL	6010D		05/02/23	05/03/23	
O2495-08	**GMW-X**	**Water**			**04/25/23**			**04/25/23**
			Dissolved ICP-TAL Metals	6010D		05/02/23	05/03/23	
			Dissolved Mercury	7470A		05/02/23	05/02/23	
O2495-09	**GMW-5**	**Water**			**04/25/23**			**04/25/23**
			Mercury	7470A		04/28/23	04/28/23	

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LAB CHRONICLE

			Metals ICP-TAL	6010D		05/02/23	05/02/23	
O2495-10	**GMW-5**	**Water**			**04/25/23**			**04/25/23**
			Dissolved ICP-TAL Metals	6010D		05/02/23	05/03/23	
			Dissolved Mercury	7470A		05/02/23	05/02/23	

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Hit Summary Sheet
SW-846

SDG No.: O2495 **Order ID:** O2495

Client: GEI Consultants, Inc., P.C. **Project ID:** Ferry Point

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**PZ-01**							
O2495-01	PZ-01	Water	Aluminum	2650		28.3	50.0	ug/L
O2495-01	PZ-01	Water	Antimony	3.47	J	2.06	25.0	ug/L
O2495-01	PZ-01	Water	Arsenic	6.06	J	3.48	10.0	ug/L
O2495-01	PZ-01	Water	Barium	545		3.92	50.0	ug/L
O2495-01	PZ-01	Water	Beryllium	0.32	J	0.13	3.00	ug/L
O2495-01	PZ-01	Water	Cadmium	2.96	J	0.10	3.00	ug/L
O2495-01	PZ-01	Water	Calcium	129000		47.7	1000	ug/L
O2495-01	PZ-01	Water	Chromium	11.8		0.80	5.00	ug/L
O2495-01	PZ-01	Water	Cobalt	3.58	J	0.40	15.0	ug/L
O2495-01	PZ-01	Water	Copper	351		7.07	10.0	ug/L
O2495-01	PZ-01	Water	Iron	14000		18.5	50.0	ug/L
O2495-01	PZ-01	Water	Lead	238		3.51	6.00	ug/L
O2495-01	PZ-01	Water	Magnesium	13100		36.0	1000	ug/L
O2495-01	PZ-01	Water	Manganese	761		0.68	10.0	ug/L
O2495-01	PZ-01	Water	Mercury	0.39		0.078	0.20	ug/L
O2495-01	PZ-01	Water	Nickel	21.3		0.85	20.0	ug/L
O2495-01	PZ-01	Water	Potassium	16600		685	1000	ug/L
O2495-01	PZ-01	Water	Silver	1.43	J	0.66	5.00	ug/L
O2495-01	PZ-01	Water	Sodium	26500		237	1000	ug/L
O2495-01	PZ-01	Water	Vanadium	8.59	J	3.01	20.0	ug/L
O2495-01	PZ-01	Water	Zinc	592		1.75	20.0	ug/L
O2495-01	PZ-01	Water	Hardness, Total	376000		267	6620	ug/L
Client ID :	**PZ-01**							
O2495-02	PZ-01	Water	Aluminum	124		28.3	50.0	ug/L
O2495-02	PZ-01	Water	Barium	429		3.92	50.0	ug/L
O2495-02	PZ-01	Water	Calcium	117000		47.7	1000	ug/L
O2495-02	PZ-01	Water	Cobalt	0.81	J	0.40	15.0	ug/L
O2495-02	PZ-01	Water	Copper	25.4		7.07	10.0	ug/L
O2495-02	PZ-01	Water	Iron	646		18.5	50.0	ug/L
O2495-02	PZ-01	Water	Magnesium	12900		36.0	1000	ug/L
O2495-02	PZ-01	Water	Manganese	433		0.68	10.0	ug/L
O2495-02	PZ-01	Water	Nickel	7.25	J	0.85	20.0	ug/L
O2495-02	PZ-01	Water	Potassium	15900		685	1000	ug/L
O2495-02	PZ-01	Water	Sodium	29000		237	1000	ug/L
O2495-02	PZ-01	Water	Zinc	35.4		1.75	20.0	ug/L
Client ID :	**PZ-02**							
O2495-03	PZ-02	Water	Aluminum	5240		28.3	50.0	ug/L
O2495-03	PZ-02	Water	Antimony	4.92	J	2.06	25.0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: O2495 **Order ID:** O2495

Client: GEI Consultants, Inc., P.C. **Project ID:** Ferry Point

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
O2495-03	PZ-02	Water	Arsenic	20.1		3.48	10.0	ug/L
O2495-03	PZ-02	Water	Barium	2380		3.92	50.0	ug/L
O2495-03	PZ-02	Water	Beryllium	0.92	J	0.13	3.00	ug/L
O2495-03	PZ-02	Water	Cadmium	2.84	J	0.10	3.00	ug/L
O2495-03	PZ-02	Water	Calcium	101000		47.7	1000	ug/L
O2495-03	PZ-02	Water	Chromium	23.2		0.80	5.00	ug/L
O2495-03	PZ-02	Water	Cobalt	12.0	J	0.40	15.0	ug/L
O2495-03	PZ-02	Water	Copper	186		7.07	10.0	ug/L
O2495-03	PZ-02	Water	Iron	35900		18.5	50.0	ug/L
O2495-03	PZ-02	Water	Lead	451		3.51	6.00	ug/L
O2495-03	PZ-02	Water	Magnesium	29600		36.0	1000	ug/L
O2495-03	PZ-02	Water	Manganese	440		0.68	10.0	ug/L
O2495-03	PZ-02	Water	Mercury	0.74		0.078	0.20	ug/L
O2495-03	PZ-02	Water	Nickel	43.1		0.85	20.0	ug/L
O2495-03	PZ-02	Water	Potassium	42800		685	1000	ug/L
O2495-03	PZ-02	Water	Silver	8.06		0.66	5.00	ug/L
O2495-03	PZ-02	Water	Sodium	129000		237	1000	ug/L
O2495-03	PZ-02	Water	Vanadium	26.8		3.01	20.0	ug/L
O2495-03	PZ-02	Water	Zinc	1070		1.75	20.0	ug/L
O2495-03	PZ-02	Water	Hardness, Total	374000		267	6620	ug/L
Client ID :	**PZ-02**							
O2495-04	PZ-02	Water	Aluminum	112		28.3	50.0	ug/L
O2495-04	PZ-02	Water	Barium	570		3.92	50.0	ug/L
O2495-04	PZ-02	Water	Calcium	88200		47.7	1000	ug/L
O2495-04	PZ-02	Water	Chromium	1.29	J	0.80	5.00	ug/L
O2495-04	PZ-02	Water	Cobalt	1.63	J	0.40	15.0	ug/L
O2495-04	PZ-02	Water	Copper	28.3		7.07	10.0	ug/L
O2495-04	PZ-02	Water	Iron	92.2		18.5	50.0	ug/L
O2495-04	PZ-02	Water	Magnesium	23300		36.0	1000	ug/L
O2495-04	PZ-02	Water	Manganese	228		0.68	10.0	ug/L
O2495-04	PZ-02	Water	Nickel	9.28	J	0.85	20.0	ug/L
O2495-04	PZ-02	Water	Potassium	31100		685	1000	ug/L
O2495-04	PZ-02	Water	Silver	0.67	J	0.66	5.00	ug/L
O2495-04	PZ-02	Water	Sodium	86200		237	1000	ug/L
O2495-04	PZ-02	Water	Zinc	13.3	J	1.75	20.0	ug/L
Client ID :	**GMW-11**							
O2495-05	GMW-11	Water	Aluminum	19300		28.3	50.0	ug/L
O2495-05	GMW-11	Water	Antimony	2.22	J	2.06	25.0	ug/L
O2495-05	GMW-11	Water	Arsenic	7.15	J	3.48	10.0	ug/L
O2495-05	GMW-11	Water	Barium	254		3.92	50.0	ug/L
O2495-05	GMW-11	Water	Beryllium	1.04	J	0.13	3.00	ug/L

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Hit Summary Sheet
SW-846

SDG No.: O2495 **Order ID:** O2495

Client: GEI Consultants, Inc., P.C. **Project ID:** Ferry Point

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
O2495-05	GMW-11	Water	Cadmium	0.49	J	0.10	3.00	ug/L
O2495-05	GMW-11	Water	Calcium	91200		47.7	1000	ug/L
O2495-05	GMW-11	Water	Chromium	33.0		0.80	5.00	ug/L
O2495-05	GMW-11	Water	Cobalt	12.8	J	0.40	15.0	ug/L
O2495-05	GMW-11	Water	Copper	92.0		7.07	10.0	ug/L
O2495-05	GMW-11	Water	Iron	26200		18.5	50.0	ug/L
O2495-05	GMW-11	Water	Lead	205		3.51	6.00	ug/L
O2495-05	GMW-11	Water	Magnesium	8300		36.0	1000	ug/L
O2495-05	GMW-11	Water	Manganese	442		0.68	10.0	ug/L
O2495-05	GMW-11	Water	Mercury	0.57		0.078	0.20	ug/L
O2495-05	GMW-11	Water	Nickel	41.9		0.85	20.0	ug/L
O2495-05	GMW-11	Water	Potassium	33100		685	1000	ug/L
O2495-05	GMW-11	Water	Silver	5.18		0.66	5.00	ug/L
O2495-05	GMW-11	Water	Sodium	55800		237	1000	ug/L
O2495-05	GMW-11	Water	Vanadium	48.3		3.01	20.0	ug/L
O2495-05	GMW-11	Water	Zinc	235		1.75	20.0	ug/L
O2495-05	GMW-11	Water	Hardness, Total	262000		267	6620	ug/L
Client ID :	**GMW-11**							
O2495-06	GMW-11	Water	Aluminum	108		28.3	50.0	ug/L
O2495-06	GMW-11	Water	Arsenic	3.95	J	3.48	10.0	ug/L
O2495-06	GMW-11	Water	Barium	50.0		3.92	50.0	ug/L
O2495-06	GMW-11	Water	Calcium	83000		47.7	1000	ug/L
O2495-06	GMW-11	Water	Chromium	0.82	J	0.80	5.00	ug/L
O2495-06	GMW-11	Water	Magnesium	1920		36.0	1000	ug/L
O2495-06	GMW-11	Water	Manganese	6.06	J	0.68	10.0	ug/L
O2495-06	GMW-11	Water	Nickel	5.56	J	0.85	20.0	ug/L
O2495-06	GMW-11	Water	Potassium	31500		685	1000	ug/L
O2495-06	GMW-11	Water	Silver	0.74	J	0.66	5.00	ug/L
O2495-06	GMW-11	Water	Sodium	58200		237	1000	ug/L
O2495-06	GMW-11	Water	Vanadium	6.86	J	3.01	20.0	ug/L
O2495-06	GMW-11	Water	Zinc	3.56	J	1.75	20.0	ug/L
Client ID :	**GMW-X**							
O2495-07	GMW-X	Water	Aluminum	17500		28.3	50.0	ug/L
O2495-07	GMW-X	Water	Arsenic	7.38	J	3.48	10.0	ug/L
O2495-07	GMW-X	Water	Barium	234		3.92	50.0	ug/L
O2495-07	GMW-X	Water	Beryllium	0.92	J	0.13	3.00	ug/L
O2495-07	GMW-X	Water	Cadmium	0.37	J	0.10	3.00	ug/L
O2495-07	GMW-X	Water	Calcium	86100		47.7	1000	ug/L
O2495-07	GMW-X	Water	Chromium	31.9		0.80	5.00	ug/L
O2495-07	GMW-X	Water	Cobalt	12.1	J	0.40	15.0	ug/L
O2495-07	GMW-X	Water	Copper	76.1		7.07	10.0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: O2495 **Order ID:** O2495

Client: GEI Consultants, Inc., P.C. **Project ID:** Ferry Point

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
O2495-07	GMW-X	Water	Iron	25300		18.5	50.0	ug/L
O2495-07	GMW-X	Water	Lead	193		3.51	6.00	ug/L
O2495-07	GMW-X	Water	Magnesium	7490		36.0	1000	ug/L
O2495-07	GMW-X	Water	Manganese	401		0.68	10.0	ug/L
O2495-07	GMW-X	Water	Mercury	0.49		0.078	0.20	ug/L
O2495-07	GMW-X	Water	Nickel	39.9		0.85	20.0	ug/L
O2495-07	GMW-X	Water	Potassium	33200		685	1000	ug/L
O2495-07	GMW-X	Water	Silver	4.86	J	0.66	5.00	ug/L
O2495-07	GMW-X	Water	Sodium	56000		237	1000	ug/L
O2495-07	GMW-X	Water	Vanadium	44.2		3.01	20.0	ug/L
O2495-07	GMW-X	Water	Zinc	234		1.75	20.0	ug/L
O2495-07	GMW-X	Water	Hardness, Total	246000		267	6620	ug/L
Client ID :	**GMW-X**							
O2495-08	GMW-X	Water	Aluminum	112		28.3	50.0	ug/L
O2495-08	GMW-X	Water	Barium	42.8	J	3.92	50.0	ug/L
O2495-08	GMW-X	Water	Calcium	78700		47.7	1000	ug/L
O2495-08	GMW-X	Water	Magnesium	1720		36.0	1000	ug/L
O2495-08	GMW-X	Water	Manganese	4.78	J	0.68	10.0	ug/L
O2495-08	GMW-X	Water	Nickel	6.80	J	0.85	20.0	ug/L
O2495-08	GMW-X	Water	Potassium	31300		685	1000	ug/L
O2495-08	GMW-X	Water	Sodium	58100		237	1000	ug/L
O2495-08	GMW-X	Water	Vanadium	7.02	J	3.01	20.0	ug/L
O2495-08	GMW-X	Water	Zinc	5.72	J	1.75	20.0	ug/L
Client ID :	**GMW-5**							
O2495-09	GMW-5	Water	Aluminum	873		28.3	50.0	ug/L
O2495-09	GMW-5	Water	Barium	36.6	J	3.92	50.0	ug/L
O2495-09	GMW-5	Water	Cadmium	3.51		0.10	3.00	ug/L
O2495-09	GMW-5	Water	Calcium	67900		47.7	1000	ug/L
O2495-09	GMW-5	Water	Chromium	1.83	J	0.80	5.00	ug/L
O2495-09	GMW-5	Water	Copper	13.3		7.07	10.0	ug/L
O2495-09	GMW-5	Water	Iron	1930		18.5	50.0	ug/L
O2495-09	GMW-5	Water	Lead	19.2		3.51	6.00	ug/L
O2495-09	GMW-5	Water	Magnesium	5990		36.0	1000	ug/L
O2495-09	GMW-5	Water	Manganese	189		0.68	10.0	ug/L
O2495-09	GMW-5	Water	Nickel	4.64	J	0.85	20.0	ug/L
O2495-09	GMW-5	Water	Potassium	8000		685	1000	ug/L
O2495-09	GMW-5	Water	Sodium	5930		237	1000	ug/L
O2495-09	GMW-5	Water	Vanadium	12.1	J	3.01	20.0	ug/L
O2495-09	GMW-5	Water	Zinc	24.4		1.75	20.0	ug/L
O2495-09	GMW-5	Water	Hardness, Total	194000		267	6620	ug/L

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Hit Summary Sheet
SW-846

SDG No.: O2495 **Order ID:** O2495

Client: GEI Consultants, Inc., P.C. **Project ID:** Ferry Point

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**GMW-5**							
O2495-10	GMW-5	Water	Barium	15.7	J	3.92	50.0	ug/L
O2495-10	GMW-5	Water	Calcium	13300		47.7	1000	ug/L
O2495-10	GMW-5	Water	Magnesium	1360		36.0	1000	ug/L
O2495-10	GMW-5	Water	Manganese	35.9		0.68	10.0	ug/L
O2495-10	GMW-5	Water	Nickel	0.93	J	0.85	20.0	ug/L
O2495-10	GMW-5	Water	Potassium	1530		685	1000	ug/L
O2495-10	GMW-5	Water	Sodium	1120		237	1000	ug/L
O2495-10	GMW-5	Water	Zinc	1.85	J	1.75	20.0	ug/L

SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01	SDG No.:	O2495
Lab Sample ID:	O2495-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2650		1	28.3	50.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-36-0	Antimony	3.47	J	1	2.06	25.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-38-2	Arsenic	6.06	J	1	3.48	10.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-39-3	Barium	545		1	3.92	50.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-41-7	Beryllium	0.32	J	1	0.13	3.00	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-43-9	Cadmium	2.96	J	1	0.10	3.00	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-70-2	Calcium	129000		1	47.7	1000	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-47-3	Chromium	11.8		1	0.80	5.00	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-48-4	Cobalt	3.58	J	1	0.40	15.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-50-8	Copper	351		1	7.07	10.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
Hardness	Hardness, Total	376000		1	267	6620	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7439-89-6	Iron	14000	N	1	18.5	50.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7439-92-1	Lead	238		1	3.51	6.00	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7439-95-4	Magnesium	13100		1	36.0	1000	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7439-96-5	Manganese	761		1	0.68	10.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7439-97-6	Mercury	0.39		1	0.078	0.20	ug/L	04/28/23 10:35	04/28/23 13:32	SW7470A	
7440-02-0	Nickel	21.3		1	0.85	20.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-09-7	Potassium	16600		1	685	1000	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-22-4	Silver	1.43	J	1	0.66	5.00	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-23-5	Sodium	26500	N	1	237	1000	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-62-2	Vanadium	8.59	J	1	3.01	20.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010
7440-66-6	Zinc	592		1	1.75	20.0	ug/L	05/02/23 12:30	05/04/23 14:53	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01	SDG No.:	O2495
Lab Sample ID:	O2495-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	124		1	28.3	50.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-39-3	Barium	429		1	3.92	50.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-43-9	Cadmium	3.00	U	1	0.10	3.00	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-70-2	Calcium	117000		1	47.7	1000	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-47-3	Chromium	5.00	U	1	0.80	5.00	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-48-4	Cobalt	0.81	J	1	0.40	15.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-50-8	Copper	25.4		1	7.07	10.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7439-89-6	Iron	646	N	1	18.5	50.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7439-95-4	Magnesium	12900		1	36.0	1000	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7439-96-5	Manganese	433		1	0.68	10.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	05/02/23 13:30	05/02/23 16:26	SW7470A	
7440-02-0	Nickel	7.25	J	1	0.85	20.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-09-7	Potassium	15900		1	685	1000	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.66	5.00	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-23-5	Sodium	29000	N	1	237	1000	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-62-2	Vanadium	20.0	U	1	3.01	20.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010
7440-66-6	Zinc	35.4		1	1.75	20.0	ug/L	05/02/23 12:30	05/04/23 14:57	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02	SDG No.:	O2495
Lab Sample ID:	O2495-03	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5240		1	28.3	50.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-36-0	Antimony	4.92	J	1	2.06	25.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-38-2	Arsenic	20.1		1	3.48	10.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-39-3	Barium	2380		1	3.92	50.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-41-7	Beryllium	0.92	J	1	0.13	3.00	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-43-9	Cadmium	2.84	J	1	0.10	3.00	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-70-2	Calcium	101000		1	47.7	1000	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-47-3	Chromium	23.2		1	0.80	5.00	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-48-4	Cobalt	12.0	J	1	0.40	15.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-50-8	Copper	186		1	7.07	10.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
Hardness	Hardness, Total	374000		1	267	6620	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7439-89-6	Iron	35900	N	1	18.5	50.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7439-92-1	Lead	451		1	3.51	6.00	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7439-95-4	Magnesium	29600		1	36.0	1000	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7439-96-5	Manganese	440		1	0.68	10.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7439-97-6	Mercury	0.74		1	0.078	0.20	ug/L	04/28/23 10:35	04/28/23 13:34	SW7470A	
7440-02-0	Nickel	43.1		1	0.85	20.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-09-7	Potassium	42800		1	685	1000	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-22-4	Silver	8.06		1	0.66	5.00	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-23-5	Sodium	129000	N	1	237	1000	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-62-2	Vanadium	26.8		1	3.01	20.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010
7440-66-6	Zinc	1070		1	1.75	20.0	ug/L	05/02/23 12:30	05/03/23 15:34	SW6010	SW3010

Color Before:	Gray	Clarity Before:	Clear	Texture:	
Color After:	Gray	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02	SDG No.:	O2495
Lab Sample ID:	O2495-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	112		1	28.3	50.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-39-3	Barium	570		1	3.92	50.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-43-9	Cadmium	3.00	U	1	0.10	3.00	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-70-2	Calcium	88200		1	47.7	1000	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-47-3	Chromium	1.29	J	1	0.80	5.00	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-48-4	Cobalt	1.63	J	1	0.40	15.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-50-8	Copper	28.3		1	7.07	10.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7439-89-6	Iron	92.2	N	1	18.5	50.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7439-95-4	Magnesium	23300		1	36.0	1000	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7439-96-5	Manganese	228		1	0.68	10.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	05/02/23 13:30	05/02/23 16:28	SW7470A	
7440-02-0	Nickel	9.28	J	1	0.85	20.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-09-7	Potassium	31100		1	685	1000	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-22-4	Silver	0.67	J	1	0.66	5.00	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-23-5	Sodium	86200	N	1	237	1000	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-62-2	Vanadium	20.0	U	1	3.01	20.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010
7440-66-6	Zinc	13.3	J	1	1.75	20.0	ug/L	05/02/23 12:30	05/03/23 15:38	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11	SDG No.:	O2495
Lab Sample ID:	O2495-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	19300		1	28.3	50.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-36-0	Antimony	2.22	J	1	2.06	25.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-38-2	Arsenic	7.15	J	1	3.48	10.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-39-3	Barium	254		1	3.92	50.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-41-7	Beryllium	1.04	J	1	0.13	3.00	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-43-9	Cadmium	0.49	J	1	0.10	3.00	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-70-2	Calcium	91200		1	47.7	1000	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-47-3	Chromium	33.0		1	0.80	5.00	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-48-4	Cobalt	12.8	J	1	0.40	15.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-50-8	Copper	92.0		1	7.07	10.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
Hardness	Hardness, Total	262000		1	267	6620	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7439-89-6	Iron	26200	N	1	18.5	50.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7439-92-1	Lead	205		1	3.51	6.00	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7439-95-4	Magnesium	8300		1	36.0	1000	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7439-96-5	Manganese	442		1	0.68	10.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7439-97-6	Mercury	0.57		1	0.078	0.20	ug/L	04/28/23 10:35	04/28/23 13:36	SW7470A	
7440-02-0	Nickel	41.9		1	0.85	20.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-09-7	Potassium	33100		1	685	1000	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-22-4	Silver	5.18		1	0.66	5.00	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-23-5	Sodium	55800	N	1	237	1000	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-62-2	Vanadium	48.3		1	3.01	20.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010
7440-66-6	Zinc	235		1	1.75	20.0	ug/L	05/02/23 12:30	05/03/23 15:42	SW6010	SW3010

Color Before:	Brown	Clarity Before:	Cloudy	Texture:	
Color After:	Brown	Clarity After:	Cloudy	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11	SDG No.:	O2495
Lab Sample ID:	O2495-06	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	108		1	28.3	50.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-38-2	Arsenic	3.95	J	1	3.48	10.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-39-3	Barium	50.0		1	3.92	50.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-43-9	Cadmium	3.00	U	1	0.10	3.00	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-70-2	Calcium	83000		1	47.7	1000	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-47-3	Chromium	0.82	J	1	0.80	5.00	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-48-4	Cobalt	15.0	U	1	0.40	15.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-50-8	Copper	10.0	U	1	7.07	10.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7439-89-6	Iron	50.0	UN	1	18.5	50.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7439-95-4	Magnesium	1920		1	36.0	1000	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7439-96-5	Manganese	6.06	J	1	0.68	10.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	05/02/23 13:30	05/02/23 16:31	SW7470A	
7440-02-0	Nickel	5.56	J	1	0.85	20.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-09-7	Potassium	31500		1	685	1000	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-22-4	Silver	0.74	J	1	0.66	5.00	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-23-5	Sodium	58200	N	1	237	1000	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-62-2	Vanadium	6.86	J	1	3.01	20.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010
7440-66-6	Zinc	3.56	J	1	1.75	20.0	ug/L	05/02/23 12:30	05/03/23 15:46	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-X	SDG No.:	O2495
Lab Sample ID:	O2495-07	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	17500		1	28.3	50.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-38-2	Arsenic	7.38	J	1	3.48	10.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-39-3	Barium	234		1	3.92	50.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-41-7	Beryllium	0.92	J	1	0.13	3.00	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-43-9	Cadmium	0.37	J	1	0.10	3.00	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-70-2	Calcium	86100		1	47.7	1000	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-47-3	Chromium	31.9		1	0.80	5.00	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-48-4	Cobalt	12.1	J	1	0.40	15.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-50-8	Copper	76.1		1	7.07	10.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
Hardness	Hardness, Total	246000		1	267	6620	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7439-89-6	Iron	25300	N	1	18.5	50.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7439-92-1	Lead	193		1	3.51	6.00	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7439-95-4	Magnesium	7490		1	36.0	1000	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7439-96-5	Manganese	401		1	0.68	10.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7439-97-6	Mercury	0.49		1	0.078	0.20	ug/L	04/28/23 10:35	04/28/23 13:39	SW7470A	
7440-02-0	Nickel	39.9		1	0.85	20.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-09-7	Potassium	33200		1	685	1000	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-22-4	Silver	4.86	J	1	0.66	5.00	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-23-5	Sodium	56000	N	1	237	1000	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-62-2	Vanadium	44.2		1	3.01	20.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010
7440-66-6	Zinc	234		1	1.75	20.0	ug/L	05/02/23 12:30	05/03/23 15:50	SW6010	SW3010

Color Before:	Brown	Clarity Before:	Cloudy	Texture:	
Color After:	Brown	Clarity After:	Cloudy	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-X	SDG No.:	O2495
Lab Sample ID:	O2495-08	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	112		1	28.3	50.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-39-3	Barium	42.8	J	1	3.92	50.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-43-9	Cadmium	3.00	U	1	0.10	3.00	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-70-2	Calcium	78700		1	47.7	1000	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-47-3	Chromium	5.00	U	1	0.80	5.00	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-48-4	Cobalt	15.0	U	1	0.40	15.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-50-8	Copper	10.0	U	1	7.07	10.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7439-89-6	Iron	50.0	UN	1	18.5	50.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7439-95-4	Magnesium	1720		1	36.0	1000	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7439-96-5	Manganese	4.78	J	1	0.68	10.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	05/02/23 13:30	05/02/23 16:33	SW7470A	
7440-02-0	Nickel	6.80	J	1	0.85	20.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-09-7	Potassium	31300		1	685	1000	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.66	5.00	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-23-5	Sodium	58100	N	1	237	1000	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-62-2	Vanadium	7.02	J	1	3.01	20.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010
7440-66-6	Zinc	5.72	J	1	1.75	20.0	ug/L	05/02/23 12:30	05/03/23 15:54	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-5	SDG No.:	O2495
Lab Sample ID:	O2495-09	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	873		1	28.3	50.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-39-3	Barium	36.6	J	1	3.92	50.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-43-9	Cadmium	3.51		1	0.10	3.00	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-70-2	Calcium	67900		1	47.7	1000	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-47-3	Chromium	1.83	J	1	0.80	5.00	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-48-4	Cobalt	15.0	U	1	0.40	15.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-50-8	Copper	13.3		1	7.07	10.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
Hardness	Hardness, Total	194000		1	267	6620	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7439-89-6	Iron	1930	N	1	18.5	50.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7439-92-1	Lead	19.2		1	3.51	6.00	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7439-95-4	Magnesium	5990		1	36.0	1000	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7439-96-5	Manganese	189		1	0.68	10.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	04/28/23 10:35	04/28/23 13:41	SW7470A	
7440-02-0	Nickel	4.64	J	1	0.85	20.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-09-7	Potassium	8000		1	685	1000	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.66	5.00	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-23-5	Sodium	5930	N	1	237	1000	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-62-2	Vanadium	12.1	J	1	3.01	20.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010
7440-66-6	Zinc	24.4		1	1.75	20.0	ug/L	05/02/23 12:30	05/02/23 18:07	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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J = Estimated Value
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OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-5	SDG No.:	O2495
Lab Sample ID:	O2495-10	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	50.0	U	1	28.3	50.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-39-3	Barium	15.7	J	1	3.92	50.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-43-9	Cadmium	3.00	U	1	0.10	3.00	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-70-2	Calcium	13300		1	47.7	1000	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-47-3	Chromium	5.00	U	1	0.80	5.00	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-48-4	Cobalt	15.0	U	1	0.40	15.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-50-8	Copper	10.0	U	1	7.07	10.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7439-89-6	Iron	50.0	UN	1	18.5	50.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7439-95-4	Magnesium	1360		1	36.0	1000	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7439-96-5	Manganese	35.9		1	0.68	10.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	05/02/23 13:30	05/02/23 16:35	SW7470A	
7440-02-0	Nickel	0.93	J	1	0.85	20.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-09-7	Potassium	1530		1	685	1000	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.66	5.00	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-23-5	Sodium	1120	N	1	237	1000	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-62-2	Vanadium	20.0	U	1	3.01	20.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010
7440-66-6	Zinc	1.85	J	1	1.75	20.0	ug/L	05/02/23 12:30	05/03/23 15:58	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
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METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV53	Mercury	4.39	4.0	110	90 - 110	CV	04/28/2023	13:11	LB125204

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV79	Mercury	5.13	5.0	102	90 - 110	CV	04/28/2023	13:16	LB125204
CCV80	Mercury	4.98	5.0	100	90 - 110	CV	04/28/2023	13:43	LB125204
CCV81	Mercury	4.94	5.0	99	90 - 110	CV	04/28/2023	14:14	LB125204
CCV82	Mercury	5.03	5.0	101	90 - 110	CV	04/28/2023	14:30	LB125204

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV58	Mercury	3.76	4.0	94	90 - 110	CV	05/02/2023	16:06	LB125251

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV98	Mercury	4.81	5.0	96	90 - 110	CV	05/02/2023	16:10	LB125251
CCV99	Mercury	4.78	5.0	96	90 - 110	CV	05/02/2023	16:38	LB125251
CCV01	Mercury	4.71	5.0	94	90 - 110	CV	05/02/2023	17:05	LB125251

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2650	2500	106	90 - 110	P	05/02/2023	17:12	LB125255
	Antimony	1020	1000	102	90 - 110	P	05/02/2023	17:12	LB125255
	Arsenic	1090	1000	109	90 - 110	P	05/02/2023	17:12	LB125255
	Barium	531	520	102	90 - 110	P	05/02/2023	17:12	LB125255
	Beryllium	525	510	103	90 - 110	P	05/02/2023	17:12	LB125255
	Cadmium	531	510	104	90 - 110	P	05/02/2023	17:12	LB125255
	Calcium	10500	10000	105	90 - 110	P	05/02/2023	17:12	LB125255
	Chromium	534	520	103	90 - 110	P	05/02/2023	17:12	LB125255
	Cobalt	523	520	100	90 - 110	P	05/02/2023	17:12	LB125255
	Copper	553	510	108	90 - 110	P	05/02/2023	17:12	LB125255
	Iron	10600	10000	106	90 - 110	P	05/02/2023	17:12	LB125255
	Lead	1060	1000	106	90 - 110	P	05/02/2023	17:12	LB125255
	Magnesium	5980	6000	100	90 - 110	P	05/02/2023	17:12	LB125255
	Manganese	532	520	102	90 - 110	P	05/02/2023	17:12	LB125255
	Nickel	524	530	99	90 - 110	P	05/02/2023	17:12	LB125255
	Potassium	10400	9900	105	90 - 110	P	05/02/2023	17:12	LB125255
	Selenium	1100	1000	110	90 - 110	P	05/02/2023	17:12	LB125255
	Silver	267	250	107	90 - 110	P	05/02/2023	17:12	LB125255
	Sodium	9990	10000	100	90 - 110	P	05/02/2023	17:12	LB125255
	Thallium	1090	1000	109	90 - 110	P	05/02/2023	17:12	LB125255
	Vanadium	509	500	102	90 - 110	P	05/02/2023	17:12	LB125255
	Zinc	1080	1000	108	90 - 110	P	05/02/2023	17:12	LB125255

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9720	10000	97	90 - 110	P	05/02/2023	17:31	LB125255
	Antimony	4970	5000	100	90 - 110	P	05/02/2023	17:31	LB125255
	Arsenic	4910	5000	98	90 - 110	P	05/02/2023	17:31	LB125255
	Barium	9380	10000	94	90 - 110	P	05/02/2023	17:31	LB125255
	Beryllium	241	250	96	90 - 110	P	05/02/2023	17:31	LB125255
	Cadmium	2410	2500	96	90 - 110	P	05/02/2023	17:31	LB125255
	Calcium	24100	25000	96	90 - 110	P	05/02/2023	17:31	LB125255
	Chromium	934	1000	93	90 - 110	P	05/02/2023	17:31	LB125255
	Cobalt	2440	2500	98	90 - 110	P	05/02/2023	17:31	LB125255
	Copper	1240	1250	99	90 - 110	P	05/02/2023	17:31	LB125255
	Iron	4830	5000	96	90 - 110	P	05/02/2023	17:31	LB125255
	Lead	4870	5000	98	90 - 110	P	05/02/2023	17:31	LB125255
	Magnesium	23000	25000	92	90 - 110	P	05/02/2023	17:31	LB125255
	Manganese	2370	2500	95	90 - 110	P	05/02/2023	17:31	LB125255
	Nickel	2450	2500	98	90 - 110	P	05/02/2023	17:31	LB125255
	Potassium	24100	25000	96	90 - 110	P	05/02/2023	17:31	LB125255
	Selenium	5010	5000	100	90 - 110	P	05/02/2023	17:31	LB125255
	Silver	1220	1250	98	90 - 110	P	05/02/2023	17:31	LB125255
	Sodium	23300	25000	93	90 - 110	P	05/02/2023	17:31	LB125255
	Thallium	4890	5000	98	90 - 110	P	05/02/2023	17:31	LB125255
	Vanadium	2310	2500	92	90 - 110	P	05/02/2023	17:31	LB125255
	Zinc	2460	2500	98	90 - 110	P	05/02/2023	17:31	LB125255

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV01	Aluminum	102	100	102	80 - 120	P	05/02/2023	17:35	LB125255
	Antimony	48.7	50.0	97	80 - 120	P	05/02/2023	17:35	LB125255
	Arsenic	21.8	20.0	109	80 - 120	P	05/02/2023	17:35	LB125255
	Barium	98.2	100	98	80 - 120	P	05/02/2023	17:35	LB125255
	Beryllium	6.31	6.0	105	80 - 120	P	05/02/2023	17:35	LB125255
	Cadmium	6.35	6.0	106	80 - 120	P	05/02/2023	17:35	LB125255
	Calcium	1960	2000	98	80 - 120	P	05/02/2023	17:35	LB125255
	Chromium	9.99	10.0	100	80 - 120	P	05/02/2023	17:35	LB125255
	Cobalt	29.1	30.0	97	80 - 120	P	05/02/2023	17:35	LB125255
	Copper	22.9	20.0	115	80 - 120	P	05/02/2023	17:35	LB125255
	Iron	99.2	100	99	80 - 120	P	05/02/2023	17:35	LB125255
	Lead	13.4	12.0	112	80 - 120	P	05/02/2023	17:35	LB125255
	Magnesium	2080	2000	104	80 - 120	P	05/02/2023	17:35	LB125255
	Manganese	21.3	20.0	106	80 - 120	P	05/02/2023	17:35	LB125255
	Nickel	39.0	40.0	98	80 - 120	P	05/02/2023	17:35	LB125255
	Potassium	1930	2000	96	80 - 120	P	05/02/2023	17:35	LB125255
	Selenium	21.0	20.0	105	80 - 120	P	05/02/2023	17:35	LB125255
	Silver	10.7	10.0	107	80 - 120	P	05/02/2023	17:35	LB125255
	Sodium	1830	2000	92	80 - 120	P	05/02/2023	17:35	LB125255
	Thallium	40.2	40.0	101	80 - 120	P	05/02/2023	17:35	LB125255
	Vanadium	36.9	40.0	92	80 - 120	P	05/02/2023	17:35	LB125255
	Zinc	44.7	40.0	112	80 - 120	P	05/02/2023	17:35	LB125255

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Aluminum	9760	10000	98	90 - 110	P	05/02/2023	18:38	LB125255
	Antimony	4990	5000	100	90 - 110	P	05/02/2023	18:38	LB125255
	Arsenic	4930	5000	99	90 - 110	P	05/02/2023	18:38	LB125255
	Barium	9480	10000	95	90 - 110	P	05/02/2023	18:38	LB125255
	Beryllium	236	250	94	90 - 110	P	05/02/2023	18:38	LB125255
	Cadmium	2410	2500	96	90 - 110	P	05/02/2023	18:38	LB125255
	Calcium	24100	25000	96	90 - 110	P	05/02/2023	18:38	LB125255
	Chromium	973	1000	97	90 - 110	P	05/02/2023	18:38	LB125255
	Cobalt	2430	2500	97	90 - 110	P	05/02/2023	18:38	LB125255
	Copper	1240	1250	99	90 - 110	P	05/02/2023	18:38	LB125255
	Iron	4800	5000	96	90 - 110	P	05/02/2023	18:38	LB125255
	Lead	4850	5000	97	90 - 110	P	05/02/2023	18:38	LB125255
	Magnesium	25400	25000	102	90 - 110	P	05/02/2023	18:38	LB125255
	Manganese	2370	2500	95	90 - 110	P	05/02/2023	18:38	LB125255
	Nickel	2440	2500	98	90 - 110	P	05/02/2023	18:38	LB125255
	Potassium	24100	25000	96	90 - 110	P	05/02/2023	18:38	LB125255
	Selenium	5030	5000	101	90 - 110	P	05/02/2023	18:38	LB125255
	Silver	1200	1250	96	90 - 110	P	05/02/2023	18:38	LB125255
	Sodium	22800	25000	91	90 - 110	P	05/02/2023	18:38	LB125255
	Thallium	4850	5000	97	90 - 110	P	05/02/2023	18:38	LB125255
	Vanadium	2310	2500	92	90 - 110	P	05/02/2023	18:38	LB125255
	Zinc	2380	2500	95	90 - 110	P	05/02/2023	18:38	LB125255
CCV03	Aluminum	9600	10000	96	90 - 110	P	05/02/2023	19:25	LB125255
	Antimony	5010	5000	100	90 - 110	P	05/02/2023	19:25	LB125255
	Arsenic	4960	5000	99	90 - 110	P	05/02/2023	19:25	LB125255
	Barium	9360	10000	94	90 - 110	P	05/02/2023	19:25	LB125255
	Beryllium	237	250	95	90 - 110	P	05/02/2023	19:25	LB125255
	Cadmium	2440	2500	97	90 - 110	P	05/02/2023	19:25	LB125255
	Calcium	23900	25000	96	90 - 110	P	05/02/2023	19:25	LB125255
	Chromium	970	1000	97	90 - 110	P	05/02/2023	19:25	LB125255
	Cobalt	2460	2500	98	90 - 110	P	05/02/2023	19:25	LB125255
	Copper	1250	1250	100	90 - 110	P	05/02/2023	19:25	LB125255
	Iron	4830	5000	96	90 - 110	P	05/02/2023	19:25	LB125255
	Lead	4900	5000	98	90 - 110	P	05/02/2023	19:25	LB125255

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV03	Magnesium	25200	25000	101	90 - 110	P	05/02/2023	19:25	LB125255
	Manganese	2340	2500	94	90 - 110	P	05/02/2023	19:25	LB125255
	Nickel	2460	2500	99	90 - 110	P	05/02/2023	19:25	LB125255
	Potassium	24000	25000	96	90 - 110	P	05/02/2023	19:25	LB125255
	Selenium	5060	5000	101	90 - 110	P	05/02/2023	19:25	LB125255
	Silver	1210	1250	97	90 - 110	P	05/02/2023	19:25	LB125255
	Sodium	24600	25000	98	90 - 110	P	05/02/2023	19:25	LB125255
	Thallium	4900	5000	98	90 - 110	P	05/02/2023	19:25	LB125255
	Vanadium	2280	2500	91	90 - 110	P	05/02/2023	19:25	LB125255
	Zinc	2410	2500	97	90 - 110	P	05/02/2023	19:25	LB125255
CCV04	Aluminum	9580	10000	96	90 - 110	P	05/02/2023	20:11	LB125255
	Antimony	4810	5000	96	90 - 110	P	05/02/2023	20:11	LB125255
	Arsenic	4870	5000	97	90 - 110	P	05/02/2023	20:11	LB125255
	Barium	9180	10000	92	90 - 110	P	05/02/2023	20:11	LB125255
	Beryllium	238	250	95	90 - 110	P	05/02/2023	20:11	LB125255
	Cadmium	2450	2500	98	90 - 110	P	05/02/2023	20:11	LB125255
	Calcium	23900	25000	95	90 - 110	P	05/02/2023	20:11	LB125255
	Chromium	1020	1000	102	90 - 110	P	05/02/2023	20:11	LB125255
	Cobalt	2430	2500	97	90 - 110	P	05/02/2023	20:11	LB125255
	Copper	1240	1250	99	90 - 110	P	05/02/2023	20:11	LB125255
	Iron	4980	5000	100	90 - 110	P	05/02/2023	20:11	LB125255
	Lead	4820	5000	96	90 - 110	P	05/02/2023	20:11	LB125255
	Magnesium	24600	25000	98	90 - 110	P	05/02/2023	20:11	LB125255
	Manganese	2310	2500	92	90 - 110	P	05/02/2023	20:11	LB125255
	Nickel	2400	2500	96	90 - 110	P	05/02/2023	20:11	LB125255
	Potassium	25100	25000	100	90 - 110	P	05/02/2023	20:11	LB125255
	Selenium	4870	5000	97	90 - 110	P	05/02/2023	20:11	LB125255
	Silver	1250	1250	100	90 - 110	P	05/02/2023	20:11	LB125255
	Sodium	27500	25000	110	90 - 110	P	05/02/2023	20:11	LB125255
	Thallium	4810	5000	96	90 - 110	P	05/02/2023	20:11	LB125255
	Vanadium	2260	2500	90	90 - 110	P	05/02/2023	20:11	LB125255
	Zinc	2550	2500	102	90 - 110	P	05/02/2023	20:11	LB125255
CCV05	Aluminum	9440	10000	94	90 - 110	P	05/02/2023	20:57	LB125255
	Antimony	4710	5000	94	90 - 110	P	05/02/2023	20:57	LB125255

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Arsenic	4780	5000	96	90 - 110	P	05/02/2023	20:57	LB125255
	Barium	9020	10000	90	90 - 110	P	05/02/2023	20:57	LB125255
	Beryllium	234	250	93	90 - 110	P	05/02/2023	20:57	LB125255
	Cadmium	2450	2500	98	90 - 110	P	05/02/2023	20:57	LB125255
	Calcium	23500	25000	94	90 - 110	P	05/02/2023	20:57	LB125255
	Chromium	977	1000	98	90 - 110	P	05/02/2023	20:57	LB125255
	Cobalt	2420	2500	97	90 - 110	P	05/02/2023	20:57	LB125255
	Copper	1230	1250	98	90 - 110	P	05/02/2023	20:57	LB125255
	Iron	4700	5000	94	90 - 110	P	05/02/2023	20:57	LB125255
	Lead	4800	5000	96	90 - 110	P	05/02/2023	20:57	LB125255
	Magnesium	24100	25000	96	90 - 110	P	05/02/2023	20:57	LB125255
	Manganese	2270	2500	91	90 - 110	P	05/02/2023	20:57	LB125255
	Nickel	2380	2500	95	90 - 110	P	05/02/2023	20:57	LB125255
	Potassium	23500	25000	94	90 - 110	P	05/02/2023	20:57	LB125255
	Selenium	4750	5000	95	90 - 110	P	05/02/2023	20:57	LB125255
	Silver	1180	1250	94	90 - 110	P	05/02/2023	20:57	LB125255
	Sodium	25500	25000	102	90 - 110	P	05/02/2023	20:57	LB125255
	Thallium	4780	5000	96	90 - 110	P	05/02/2023	20:57	LB125255
	Vanadium	2220	2500	89	90 - 110	P	05/02/2023	20:57	LB125255
	Zinc	2410	2500	96	90 - 110	P	05/02/2023	20:57	LB125255
CCV06	Aluminum	9560	10000	96	90 - 110	P	05/02/2023	21:45	LB125255
	Antimony	4640	5000	93	90 - 110	P	05/02/2023	21:45	LB125255
	Arsenic	4750	5000	95	90 - 110	P	05/02/2023	21:45	LB125255
	Barium	8890	10000	89	90 - 110	P	05/02/2023	21:45	LB125255
	Beryllium	236	250	94	90 - 110	P	05/02/2023	21:45	LB125255
	Cadmium	2430	2500	97	90 - 110	P	05/02/2023	21:45	LB125255
	Calcium	23800	25000	95	90 - 110	P	05/02/2023	21:45	LB125255
	Chromium	950	1000	95	90 - 110	P	05/02/2023	21:45	LB125255
	Cobalt	2400	2500	96	90 - 110	P	05/02/2023	21:45	LB125255
	Copper	1220	1250	98	90 - 110	P	05/02/2023	21:45	LB125255
	Iron	4570	5000	91	90 - 110	P	05/02/2023	21:45	LB125255
	Lead	4740	5000	95	90 - 110	P	05/02/2023	21:45	LB125255
	Magnesium	24000	25000	96	90 - 110	P	05/02/2023	21:45	LB125255
	Manganese	2280	2500	91	90 - 110	P	05/02/2023	21:45	LB125255

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06	Nickel	2350	2500	94	90 - 110	P	05/02/2023	21:45	LB125255
	Potassium	23100	25000	92	90 - 110	P	05/02/2023	21:45	LB125255
	Selenium	4700	5000	94	90 - 110	P	05/02/2023	21:45	LB125255
	Silver	1150	1250	92	90 - 110	P	05/02/2023	21:45	LB125255
	Sodium	24400	25000	98	90 - 110	P	05/02/2023	21:45	LB125255
	Thallium	4720	5000	94	90 - 110	P	05/02/2023	21:45	LB125255
	Vanadium	2210	2500	89	90 - 110	P	05/02/2023	21:45	LB125255
	Zinc	2360	2500	94	90 - 110	P	05/02/2023	21:45	LB125255
CCV07	Aluminum	9730	10000	97	90 - 110	P	05/02/2023	22:19	LB125255
	Antimony	4700	5000	94	90 - 110	P	05/02/2023	22:19	LB125255
	Arsenic	4800	5000	96	90 - 110	P	05/02/2023	22:19	LB125255
	Barium	9070	10000	91	90 - 110	P	05/02/2023	22:19	LB125255
	Beryllium	240	250	96	90 - 110	P	05/02/2023	22:19	LB125255
	Cadmium	2460	2500	98	90 - 110	P	05/02/2023	22:19	LB125255
	Calcium	24200	25000	97	90 - 110	P	05/02/2023	22:19	LB125255
	Chromium	947	1000	95	90 - 110	P	05/02/2023	22:19	LB125255
	Cobalt	2430	2500	97	90 - 110	P	05/02/2023	22:19	LB125255
	Copper	1230	1250	99	90 - 110	P	05/02/2023	22:19	LB125255
	Iron	4600	5000	92	90 - 110	P	05/02/2023	22:19	LB125255
	Lead	4810	5000	96	90 - 110	P	05/02/2023	22:19	LB125255
	Magnesium	24300	25000	97	90 - 110	P	05/02/2023	22:19	LB125255
	Manganese	2320	2500	93	90 - 110	P	05/02/2023	22:19	LB125255
	Nickel	2380	2500	95	90 - 110	P	05/02/2023	22:19	LB125255
	Potassium	23200	25000	93	90 - 110	P	05/02/2023	22:19	LB125255
	Selenium	4740	5000	95	90 - 110	P	05/02/2023	22:19	LB125255
	Silver	1150	1250	92	90 - 110	P	05/02/2023	22:19	LB125255
	Sodium	23900	25000	96	90 - 110	P	05/02/2023	22:19	LB125255
	Thallium	4810	5000	96	90 - 110	P	05/02/2023	22:19	LB125255
	Vanadium	2250	2500	90	90 - 110	P	05/02/2023	22:19	LB125255
	Zinc	2360	2500	94	90 - 110	P	05/02/2023	22:19	LB125255

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2610	2500	104	90 - 110	P	05/03/2023	14:04	LB125269
	Antimony	1040	1000	104	90 - 110	P	05/03/2023	14:04	LB125269
	Arsenic	1080	1000	108	90 - 110	P	05/03/2023	14:04	LB125269
	Barium	555	520	107	90 - 110	P	05/03/2023	14:04	LB125269
	Beryllium	515	510	101	90 - 110	P	05/03/2023	14:04	LB125269
	Cadmium	521	510	102	90 - 110	P	05/03/2023	14:04	LB125269
	Calcium	10100	10000	100	90 - 110	P	05/03/2023	14:04	LB125269
	Chromium	492	520	95	90 - 110	P	05/03/2023	14:04	LB125269
	Cobalt	524	520	101	90 - 110	P	05/03/2023	14:04	LB125269
	Copper	548	510	108	90 - 110	P	05/03/2023	14:04	LB125269
	Iron	9830	10000	98	90 - 110	P	05/03/2023	14:04	LB125269
	Lead	1060	1000	106	90 - 110	P	05/03/2023	14:04	LB125269
	Magnesium	6080	6000	101	90 - 110	P	05/03/2023	14:04	LB125269
	Manganese	551	520	106	90 - 110	P	05/03/2023	14:04	LB125269
	Nickel	530	530	100	90 - 110	P	05/03/2023	14:04	LB125269
	Potassium	9740	9900	98	90 - 110	P	05/03/2023	14:04	LB125269
	Selenium	1090	1000	109	90 - 110	P	05/03/2023	14:04	LB125269
	Silver	239	250	96	90 - 110	P	05/03/2023	14:04	LB125269
	Sodium	9080	10000	91	90 - 110	P	05/03/2023	14:04	LB125269
	Thallium	1080	1000	108	90 - 110	P	05/03/2023	14:04	LB125269
	Vanadium	509	500	102	90 - 110	P	05/03/2023	14:04	LB125269
	Zinc	1050	1000	105	90 - 110	P	05/03/2023	14:04	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9750	10000	98	90 - 110	P	05/03/2023	14:31	LB125269
	Antimony	5000	5000	100	90 - 110	P	05/03/2023	14:31	LB125269
	Arsenic	4870	5000	97	90 - 110	P	05/03/2023	14:31	LB125269
	Barium	10100	10000	101	90 - 110	P	05/03/2023	14:31	LB125269
	Beryllium	238	250	95	90 - 110	P	05/03/2023	14:31	LB125269
	Cadmium	2390	2500	96	90 - 110	P	05/03/2023	14:31	LB125269
	Calcium	23600	25000	95	90 - 110	P	05/03/2023	14:31	LB125269
	Chromium	953	1000	95	90 - 110	P	05/03/2023	14:31	LB125269
	Cobalt	2450	2500	98	90 - 110	P	05/03/2023	14:31	LB125269
	Copper	1230	1250	98	90 - 110	P	05/03/2023	14:31	LB125269
	Iron	4840	5000	97	90 - 110	P	05/03/2023	14:31	LB125269
	Lead	4880	5000	98	90 - 110	P	05/03/2023	14:31	LB125269
	Magnesium	26300	25000	105	90 - 110	P	05/03/2023	14:31	LB125269
	Manganese	2520	2500	101	90 - 110	P	05/03/2023	14:31	LB125269
	Nickel	2470	2500	99	90 - 110	P	05/03/2023	14:31	LB125269
	Potassium	24200	25000	97	90 - 110	P	05/03/2023	14:31	LB125269
	Selenium	4860	5000	97	90 - 110	P	05/03/2023	14:31	LB125269
	Silver	1130	1250	90	90 - 110	P	05/03/2023	14:31	LB125269
	Sodium	25500	25000	102	90 - 110	P	05/03/2023	14:31	LB125269
	Thallium	4870	5000	97	90 - 110	P	05/03/2023	14:31	LB125269
	Vanadium	2410	2500	96	90 - 110	P	05/03/2023	14:31	LB125269
	Zinc	2490	2500	99	90 - 110	P	05/03/2023	14:31	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV01	Aluminum	99.2	100	99	80 - 120	P	05/03/2023	14:35	LB125269
	Antimony	53.9	50.0	108	80 - 120	P	05/03/2023	14:35	LB125269
	Arsenic	23.0	20.0	115	80 - 120	P	05/03/2023	14:35	LB125269
	Barium	112	100	112	80 - 120	P	05/03/2023	14:35	LB125269
	Beryllium	6.29	6.0	105	80 - 120	P	05/03/2023	14:35	LB125269
	Cadmium	6.52	6.0	109	80 - 120	P	05/03/2023	14:35	LB125269
	Calcium	1950	2000	98	80 - 120	P	05/03/2023	14:35	LB125269
	Chromium	9.71	10.0	97	80 - 120	P	05/03/2023	14:35	LB125269
	Cobalt	30.8	30.0	103	80 - 120	P	05/03/2023	14:35	LB125269
	Copper	23.6	20.0	118	80 - 120	P	05/03/2023	14:35	LB125269
	Iron	104	100	104	80 - 120	P	05/03/2023	14:35	LB125269
	Lead	12.7	12.0	106	80 - 120	P	05/03/2023	14:35	LB125269
	Magnesium	2190	2000	109	80 - 120	P	05/03/2023	14:35	LB125269
	Manganese	22.8	20.0	114	80 - 120	P	05/03/2023	14:35	LB125269
	Nickel	40.9	40.0	102	80 - 120	P	05/03/2023	14:35	LB125269
	Potassium	1940	2000	97	80 - 120	P	05/03/2023	14:35	LB125269
	Selenium	22.2	20.0	111	80 - 120	P	05/03/2023	14:35	LB125269
	Silver	10.9	10.0	109	80 - 120	P	05/03/2023	14:35	LB125269
	Sodium	1720	2000	86	80 - 120	P	05/03/2023	14:35	LB125269
	Thallium	43.2	40.0	108	80 - 120	P	05/03/2023	14:35	LB125269
	Vanadium	40.7	40.0	102	80 - 120	P	05/03/2023	14:35	LB125269
	Zinc	46.9	40.0	117	80 - 120	P	05/03/2023	14:35	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Aluminum	9680	10000	97	90 - 110	P	05/03/2023	15:21	LB125269
	Antimony	5010	5000	100	90 - 110	P	05/03/2023	15:21	LB125269
	Arsenic	4820	5000	96	90 - 110	P	05/03/2023	15:21	LB125269
	Barium	10100	10000	101	90 - 110	P	05/03/2023	15:21	LB125269
	Beryllium	237	250	95	90 - 110	P	05/03/2023	15:21	LB125269
	Cadmium	2330	2500	93	90 - 110	P	05/03/2023	15:21	LB125269
	Calcium	23500	25000	94	90 - 110	P	05/03/2023	15:21	LB125269
	Chromium	941	1000	94	90 - 110	P	05/03/2023	15:21	LB125269
	Cobalt	2410	2500	96	90 - 110	P	05/03/2023	15:21	LB125269
	Copper	1210	1250	97	90 - 110	P	05/03/2023	15:21	LB125269
	Iron	4750	5000	95	90 - 110	P	05/03/2023	15:21	LB125269
	Lead	4810	5000	96	90 - 110	P	05/03/2023	15:21	LB125269
	Magnesium	26400	25000	106	90 - 110	P	05/03/2023	15:21	LB125269
	Manganese	2530	2500	101	90 - 110	P	05/03/2023	15:21	LB125269
	Nickel	2450	2500	98	90 - 110	P	05/03/2023	15:21	LB125269
	Potassium	23900	25000	96	90 - 110	P	05/03/2023	15:21	LB125269
	Selenium	4760	5000	95	90 - 110	P	05/03/2023	15:21	LB125269
	Silver	1130	1250	90	90 - 110	P	05/03/2023	15:21	LB125269
	Sodium	24700	25000	99	90 - 110	P	05/03/2023	15:21	LB125269
	Thallium	4780	5000	96	90 - 110	P	05/03/2023	15:21	LB125269
	Vanadium	2400	2500	96	90 - 110	P	05/03/2023	15:21	LB125269
	Zinc	2460	2500	98	90 - 110	P	05/03/2023	15:21	LB125269
CCV03	Aluminum	9780	10000	98	90 - 110	P	05/03/2023	16:39	LB125269
	Antimony	5290	5000	106	90 - 110	P	05/03/2023	16:39	LB125269
	Arsenic	5000	5000	100	90 - 110	P	05/03/2023	16:39	LB125269
	Barium	10500	10000	105	90 - 110	P	05/03/2023	16:39	LB125269
	Beryllium	237	250	95	90 - 110	P	05/03/2023	16:39	LB125269
	Cadmium	2390	2500	96	90 - 110	P	05/03/2023	16:39	LB125269
	Calcium	23800	25000	95	90 - 110	P	05/03/2023	16:39	LB125269
	Chromium	947	1000	95	90 - 110	P	05/03/2023	16:39	LB125269
	Cobalt	2500	2500	100	90 - 110	P	05/03/2023	16:39	LB125269
	Copper	1250	1250	100	90 - 110	P	05/03/2023	16:39	LB125269
	Iron	5000	5000	100	90 - 110	P	05/03/2023	16:39	LB125269
	Lead	5000	5000	100	90 - 110	P	05/03/2023	16:39	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV03	Magnesium	27300	25000	109	90 - 110	P	05/03/2023	16:39	LB125269
	Manganese	2610	2500	104	90 - 110	P	05/03/2023	16:39	LB125269
	Nickel	2560	2500	103	90 - 110	P	05/03/2023	16:39	LB125269
	Potassium	24600	25000	98	90 - 110	P	05/03/2023	16:39	LB125269
	Selenium	4910	5000	98	90 - 110	P	05/03/2023	16:39	LB125269
	Silver	1150	1250	92	90 - 110	P	05/03/2023	16:39	LB125269
	Sodium	25500	25000	102	90 - 110	P	05/03/2023	16:39	LB125269
	Thallium	4930	5000	98	90 - 110	P	05/03/2023	16:39	LB125269
	Vanadium	2460	2500	98	90 - 110	P	05/03/2023	16:39	LB125269
	Zinc	2500	2500	100	90 - 110	P	05/03/2023	16:39	LB125269
CCV04	Aluminum	9900	10000	99	90 - 110	P	05/03/2023	17:30	LB125269
	Antimony	5200	5000	104	90 - 110	P	05/03/2023	17:30	LB125269
	Arsenic	4910	5000	98	90 - 110	P	05/03/2023	17:30	LB125269
	Barium	10500	10000	105	90 - 110	P	05/03/2023	17:30	LB125269
	Beryllium	238	250	95	90 - 110	P	05/03/2023	17:30	LB125269
	Cadmium	2340	2500	94	90 - 110	P	05/03/2023	17:30	LB125269
	Calcium	23900	25000	96	90 - 110	P	05/03/2023	17:30	LB125269
	Chromium	950	1000	95	90 - 110	P	05/03/2023	17:30	LB125269
	Cobalt	2460	2500	98	90 - 110	P	05/03/2023	17:30	LB125269
	Copper	1230	1250	98	90 - 110	P	05/03/2023	17:30	LB125269
	Iron	5020	5000	100	90 - 110	P	05/03/2023	17:30	LB125269
	Lead	4910	5000	98	90 - 110	P	05/03/2023	17:30	LB125269
	Magnesium	27400	25000	110	90 - 110	P	05/03/2023	17:30	LB125269
	Manganese	2620	2500	105	90 - 110	P	05/03/2023	17:30	LB125269
	Nickel	2510	2500	100	90 - 110	P	05/03/2023	17:30	LB125269
	Potassium	24800	25000	99	90 - 110	P	05/03/2023	17:30	LB125269
	Selenium	4830	5000	97	90 - 110	P	05/03/2023	17:30	LB125269
	Silver	1140	1250	92	90 - 110	P	05/03/2023	17:30	LB125269
	Sodium	25500	25000	102	90 - 110	P	05/03/2023	17:30	LB125269
	Thallium	4840	5000	97	90 - 110	P	05/03/2023	17:30	LB125269
	Vanadium	2460	2500	99	90 - 110	P	05/03/2023	17:30	LB125269
	Zinc	2520	2500	101	90 - 110	P	05/03/2023	17:30	LB125269
CCV05	Aluminum	10100	10000	101	90 - 110	P	05/03/2023	18:16	LB125269
	Antimony	5360	5000	107	90 - 110	P	05/03/2023	18:16	LB125269

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Arsenic	5070	5000	101	90 - 110	P	05/03/2023	18:16	LB125269
	Barium	10800	10000	108	90 - 110	P	05/03/2023	18:16	LB125269
	Beryllium	244	250	98	90 - 110	P	05/03/2023	18:16	LB125269
	Cadmium	2430	2500	97	90 - 110	P	05/03/2023	18:16	LB125269
	Calcium	24400	25000	98	90 - 110	P	05/03/2023	18:16	LB125269
	Chromium	911	1000	91	90 - 110	P	05/03/2023	18:16	LB125269
	Cobalt	2550	2500	102	90 - 110	P	05/03/2023	18:16	LB125269
	Copper	1270	1250	102	90 - 110	P	05/03/2023	18:16	LB125269
	Iron	4940	5000	99	90 - 110	P	05/03/2023	18:16	LB125269
	Lead	5090	5000	102	90 - 110	P	05/03/2023	18:16	LB125269
	Magnesium	26000	25000	104	90 - 110	P	05/03/2023	18:16	LB125269
	Manganese	2710	2500	108	90 - 110	P	05/03/2023	18:16	LB125269
	Nickel	2610	2500	104	90 - 110	P	05/03/2023	18:16	LB125269
	Potassium	24800	25000	99	90 - 110	P	05/03/2023	18:16	LB125269
	Selenium	4980	5000	100	90 - 110	P	05/03/2023	18:16	LB125269
	Silver	1140	1250	91	90 - 110	P	05/03/2023	18:16	LB125269
	Sodium	23300	25000	93	90 - 110	P	05/03/2023	18:16	LB125269
	Thallium	5020	5000	100	90 - 110	P	05/03/2023	18:16	LB125269
	Vanadium	2530	2500	101	90 - 110	P	05/03/2023	18:16	LB125269
	Zinc	2550	2500	102	90 - 110	P	05/03/2023	18:16	LB125269
CCV06	Aluminum	9940	10000	99	90 - 110	P	05/03/2023	19:03	LB125269
	Antimony	5320	5000	106	90 - 110	P	05/03/2023	19:03	LB125269
	Arsenic	5060	5000	101	90 - 110	P	05/03/2023	19:03	LB125269
	Barium	10600	10000	106	90 - 110	P	05/03/2023	19:03	LB125269
	Beryllium	243	250	97	90 - 110	P	05/03/2023	19:03	LB125269
	Cadmium	2460	2500	98	90 - 110	P	05/03/2023	19:03	LB125269
	Calcium	24000	25000	96	90 - 110	P	05/03/2023	19:03	LB125269
	Chromium	904	1000	90	90 - 110	P	05/03/2023	19:03	LB125269
	Cobalt	2570	2500	103	90 - 110	P	05/03/2023	19:03	LB125269
	Copper	1280	1250	102	90 - 110	P	05/03/2023	19:03	LB125269
	Iron	4810	5000	96	90 - 110	P	05/03/2023	19:03	LB125269
	Lead	5120	5000	102	90 - 110	P	05/03/2023	19:03	LB125269
	Magnesium	25500	25000	102	90 - 110	P	05/03/2023	19:03	LB125269
	Manganese	2670	2500	107	90 - 110	P	05/03/2023	19:03	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06	Nickel	2620	2500	105	90 - 110	P	05/03/2023	19:03	LB125269
	Potassium	24200	25000	97	90 - 110	P	05/03/2023	19:03	LB125269
	Selenium	4960	5000	99	90 - 110	P	05/03/2023	19:03	LB125269
	Silver	1250	1250	100	90 - 110	P	05/03/2023	19:03	LB125269
	Sodium	22500	25000	90	90 - 110	P	05/03/2023	19:03	LB125269
	Thallium	5040	5000	101	90 - 110	P	05/03/2023	19:03	LB125269
	Vanadium	2470	2500	99	90 - 110	P	05/03/2023	19:03	LB125269
	Zinc	2560	2500	102	90 - 110	P	05/03/2023	19:03	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2590	2500	104	90 - 110	P	05/04/2023	13:41	LB125287
	Antimony	1000	1000	100	90 - 110	P	05/04/2023	13:41	LB125287
	Arsenic	1050	1000	105	90 - 110	P	05/04/2023	13:41	LB125287
	Barium	525	520	101	90 - 110	P	05/04/2023	13:41	LB125287
	Beryllium	524	510	103	90 - 110	P	05/04/2023	13:41	LB125287
	Cadmium	518	510	102	90 - 110	P	05/04/2023	13:41	LB125287
	Calcium	10200	10000	102	90 - 110	P	05/04/2023	13:41	LB125287
	Chromium	521	520	100	90 - 110	P	05/04/2023	13:41	LB125287
	Cobalt	509	520	98	90 - 110	P	05/04/2023	13:41	LB125287
	Copper	535	510	105	90 - 110	P	05/04/2023	13:41	LB125287
	Iron	9840	10000	98	90 - 110	P	05/04/2023	13:41	LB125287
	Lead	1040	1000	104	90 - 110	P	05/04/2023	13:41	LB125287
	Magnesium	6060	6000	101	90 - 110	P	05/04/2023	13:41	LB125287
	Manganese	528	520	102	90 - 110	P	05/04/2023	13:41	LB125287
	Nickel	511	530	96	90 - 110	P	05/04/2023	13:41	LB125287
	Potassium	9650	9900	98	90 - 110	P	05/04/2023	13:41	LB125287
	Selenium	1070	1000	107	90 - 110	P	05/04/2023	13:41	LB125287
	Silver	253	250	101	90 - 110	P	05/04/2023	13:41	LB125287
	Sodium	9520	10000	95	90 - 110	P	05/04/2023	13:41	LB125287
	Thallium	1070	1000	107	90 - 110	P	05/04/2023	13:41	LB125287
	Vanadium	508	500	102	90 - 110	P	05/04/2023	13:41	LB125287
	Zinc	1030	1000	103	90 - 110	P	05/04/2023	13:41	LB125287

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9590	10000	96	90 - 110	P	05/04/2023	14:10	LB125287
	Antimony	5000	5000	100	90 - 110	P	05/04/2023	14:10	LB125287
	Arsenic	5100	5000	102	90 - 110	P	05/04/2023	14:10	LB125287
	Barium	9860	10000	99	90 - 110	P	05/04/2023	14:10	LB125287
	Beryllium	242	250	97	90 - 110	P	05/04/2023	14:10	LB125287
	Cadmium	2390	2500	96	90 - 110	P	05/04/2023	14:10	LB125287
	Calcium	23700	25000	95	90 - 110	P	05/04/2023	14:10	LB125287
	Chromium	956	1000	96	90 - 110	P	05/04/2023	14:10	LB125287
	Cobalt	2440	2500	98	90 - 110	P	05/04/2023	14:10	LB125287
	Copper	1250	1250	100	90 - 110	P	05/04/2023	14:10	LB125287
	Iron	4870	5000	97	90 - 110	P	05/04/2023	14:10	LB125287
	Lead	4880	5000	98	90 - 110	P	05/04/2023	14:10	LB125287
	Magnesium	24400	25000	98	90 - 110	P	05/04/2023	14:10	LB125287
	Manganese	2500	2500	100	90 - 110	P	05/04/2023	14:10	LB125287
	Nickel	2460	2500	99	90 - 110	P	05/04/2023	14:10	LB125287
	Potassium	24200	25000	97	90 - 110	P	05/04/2023	14:10	LB125287
	Selenium	4950	5000	99	90 - 110	P	05/04/2023	14:10	LB125287
	Silver	1250	1250	100	90 - 110	P	05/04/2023	14:10	LB125287
	Sodium	23800	25000	95	90 - 110	P	05/04/2023	14:10	LB125287
	Thallium	4870	5000	98	90 - 110	P	05/04/2023	14:10	LB125287
	Vanadium	2410	2500	96	90 - 110	P	05/04/2023	14:10	LB125287
	Zinc	2490	2500	100	90 - 110	P	05/04/2023	14:10	LB125287

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV01	Aluminum	117	100	117	80 - 120	P	05/04/2023	14:14	LB125287
	Antimony	51.3	50.0	103	80 - 120	P	05/04/2023	14:14	LB125287
	Arsenic	20.4	20.0	102	80 - 120	P	05/04/2023	14:14	LB125287
	Barium	104	100	104	80 - 120	P	05/04/2023	14:14	LB125287
	Beryllium	6.34	6.0	106	80 - 120	P	05/04/2023	14:14	LB125287
	Cadmium	6.31	6.0	105	80 - 120	P	05/04/2023	14:14	LB125287
	Calcium	1920	2000	96	80 - 120	P	05/04/2023	14:14	LB125287
	Chromium	9.72	10.0	97	80 - 120	P	05/04/2023	14:14	LB125287
	Cobalt	29.1	30.0	97	80 - 120	P	05/04/2023	14:14	LB125287
	Copper	23.5	20.0	117	80 - 120	P	05/04/2023	14:14	LB125287
	Iron	100	100	100	80 - 120	P	05/04/2023	14:14	LB125287
	Lead	13.7	12.0	114	80 - 120	P	05/04/2023	14:14	LB125287
	Magnesium	2130	2000	106	80 - 120	P	05/04/2023	14:14	LB125287
	Manganese	22.1	20.0	110	80 - 120	P	05/04/2023	14:14	LB125287
	Nickel	38.9	40.0	97	80 - 120	P	05/04/2023	14:14	LB125287
	Potassium	1910	2000	95	80 - 120	P	05/04/2023	14:14	LB125287
	Selenium	18.9	20.0	95	80 - 120	P	05/04/2023	14:14	LB125287
	Silver	10.5	10.0	105	80 - 120	P	05/04/2023	14:14	LB125287
	Sodium	1810	2000	90	80 - 120	P	05/04/2023	14:14	LB125287
	Thallium	40.9	40.0	102	80 - 120	P	05/04/2023	14:14	LB125287
	Vanadium	39.2	40.0	98	80 - 120	P	05/04/2023	14:14	LB125287
	Zinc	47.9	40.0	120	80 - 120	P	05/04/2023	14:14	LB125287

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Aluminum	9700	10000	97	90 - 110	P	05/04/2023	15:05	LB125287
	Antimony	5120	5000	102	90 - 110	P	05/04/2023	15:05	LB125287
	Arsenic	4950	5000	99	90 - 110	P	05/04/2023	15:05	LB125287
	Barium	10100	10000	101	90 - 110	P	05/04/2023	15:05	LB125287
	Beryllium	242	250	97	90 - 110	P	05/04/2023	15:05	LB125287
	Cadmium	2420	2500	97	90 - 110	P	05/04/2023	15:05	LB125287
	Calcium	23900	25000	96	90 - 110	P	05/04/2023	15:05	LB125287
	Chromium	963	1000	96	90 - 110	P	05/04/2023	15:05	LB125287
	Cobalt	2480	2500	99	90 - 110	P	05/04/2023	15:05	LB125287
	Copper	1270	1250	102	90 - 110	P	05/04/2023	15:05	LB125287
	Iron	4990	5000	100	90 - 110	P	05/04/2023	15:05	LB125287
	Lead	4970	5000	100	90 - 110	P	05/04/2023	15:05	LB125287
	Magnesium	25000	25000	100	90 - 110	P	05/04/2023	15:05	LB125287
	Manganese	2570	2500	103	90 - 110	P	05/04/2023	15:05	LB125287
	Nickel	2520	2500	101	90 - 110	P	05/04/2023	15:05	LB125287
	Potassium	24900	25000	99	90 - 110	P	05/04/2023	15:05	LB125287
	Selenium	5070	5000	101	90 - 110	P	05/04/2023	15:05	LB125287
	Silver	1350	1250	108	90 - 110	P	05/04/2023	15:05	LB125287
	Sodium	24600	25000	98	90 - 110	P	05/04/2023	15:05	LB125287
	Thallium	4950	5000	99	90 - 110	P	05/04/2023	15:05	LB125287
	Vanadium	2430	2500	97	90 - 110	P	05/04/2023	15:05	LB125287
	Zinc	2540	2500	102	90 - 110	P	05/04/2023	15:05	LB125287
CCV03	Aluminum	9720	10000	97	90 - 110	P	05/04/2023	15:53	LB125287
	Antimony	5280	5000	106	90 - 110	P	05/04/2023	15:53	LB125287
	Arsenic	5060	5000	101	90 - 110	P	05/04/2023	15:53	LB125287
	Barium	10200	10000	102	90 - 110	P	05/04/2023	15:53	LB125287
	Beryllium	238	250	95	90 - 110	P	05/04/2023	15:53	LB125287
	Cadmium	2440	2500	98	90 - 110	P	05/04/2023	15:53	LB125287
	Calcium	23900	25000	95	90 - 110	P	05/04/2023	15:53	LB125287
	Chromium	968	1000	97	90 - 110	P	05/04/2023	15:53	LB125287
	Cobalt	2520	2500	101	90 - 110	P	05/04/2023	15:53	LB125287
	Copper	1300	1250	104	90 - 110	P	05/04/2023	15:53	LB125287
	Iron	5040	5000	101	90 - 110	P	05/04/2023	15:53	LB125287
	Lead	5030	5000	101	90 - 110	P	05/04/2023	15:53	LB125287

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV03	Magnesium	24900	25000	100	90 - 110	P	05/04/2023	15:53	LB125287
	Manganese	2570	2500	103	90 - 110	P	05/04/2023	15:53	LB125287
	Nickel	2560	2500	102	90 - 110	P	05/04/2023	15:53	LB125287
	Potassium	25700	25000	103	90 - 110	P	05/04/2023	15:53	LB125287
	Selenium	5220	5000	104	90 - 110	P	05/04/2023	15:53	LB125287
	Silver	1370	1250	109	90 - 110	P	05/04/2023	15:53	LB125287
	Sodium	23700	25000	95	90 - 110	P	05/04/2023	15:53	LB125287
	Thallium	5010	5000	100	90 - 110	P	05/04/2023	15:53	LB125287
	Vanadium	2450	2500	98	90 - 110	P	05/04/2023	15:53	LB125287
	Zinc	2580	2500	103	90 - 110	P	05/04/2023	15:53	LB125287
CCV04	Aluminum	9490	10000	95	90 - 110	P	05/04/2023	16:52	LB125287
	Antimony	5230	5000	104	90 - 110	P	05/04/2023	16:52	LB125287
	Arsenic	4980	5000	100	90 - 110	P	05/04/2023	16:52	LB125287
	Barium	9960	10000	100	90 - 110	P	05/04/2023	16:52	LB125287
	Beryllium	239	250	96	90 - 110	P	05/04/2023	16:52	LB125287
	Cadmium	2390	2500	96	90 - 110	P	05/04/2023	16:52	LB125287
	Calcium	23300	25000	93	90 - 110	P	05/04/2023	16:52	LB125287
	Chromium	967	1000	97	90 - 110	P	05/04/2023	16:52	LB125287
	Cobalt	2480	2500	99	90 - 110	P	05/04/2023	16:52	LB125287
	Copper	1290	1250	103	90 - 110	P	05/04/2023	16:52	LB125287
	Iron	5010	5000	100	90 - 110	P	05/04/2023	16:52	LB125287
	Lead	4950	5000	99	90 - 110	P	05/04/2023	16:52	LB125287
	Magnesium	24400	25000	98	90 - 110	P	05/04/2023	16:52	LB125287
	Manganese	2540	2500	102	90 - 110	P	05/04/2023	16:52	LB125287
	Nickel	2520	2500	101	90 - 110	P	05/04/2023	16:52	LB125287
	Potassium	25100	25000	101	90 - 110	P	05/04/2023	16:52	LB125287
	Selenium	5170	5000	103	90 - 110	P	05/04/2023	16:52	LB125287
	Silver	1340	1250	107	90 - 110	P	05/04/2023	16:52	LB125287
	Sodium	24700	25000	99	90 - 110	P	05/04/2023	16:52	LB125287
	Thallium	4910	5000	98	90 - 110	P	05/04/2023	16:52	LB125287
	Vanadium	2390	2500	95	90 - 110	P	05/04/2023	16:52	LB125287
	Zinc	2580	2500	103	90 - 110	P	05/04/2023	16:52	LB125287
CCV05	Aluminum	9300	10000	93	90 - 110	P	05/04/2023	17:43	LB125287
	Antimony	5360	5000	107	90 - 110	P	05/04/2023	17:43	LB125287

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Arsenic	5030	5000	101	90 - 110	P	05/04/2023	17:43	LB125287
	Barium	10000	10000	100	90 - 110	P	05/04/2023	17:43	LB125287
	Beryllium	230	250	92	90 - 110	P	05/04/2023	17:43	LB125287
	Cadmium	2370	2500	95	90 - 110	P	05/04/2023	17:43	LB125287
	Calcium	22800	25000	91	90 - 110	P	05/04/2023	17:43	LB125287
	Chromium	927	1000	93	90 - 110	P	05/04/2023	17:43	LB125287
	Cobalt	2490	2500	100	90 - 110	P	05/04/2023	17:43	LB125287
	Copper	1310	1250	104	90 - 110	P	05/04/2023	17:43	LB125287
	Iron	4950	5000	99	90 - 110	P	05/04/2023	17:43	LB125287
	Lead	4990	5000	100	90 - 110	P	05/04/2023	17:43	LB125287
	Magnesium	24100	25000	96	90 - 110	P	05/04/2023	17:43	LB125287
	Manganese	2560	2500	102	90 - 110	P	05/04/2023	17:43	LB125287
	Nickel	2550	2500	102	90 - 110	P	05/04/2023	17:43	LB125287
	Potassium	25000	25000	100	90 - 110	P	05/04/2023	17:43	LB125287
	Selenium	5300	5000	106	90 - 110	P	05/04/2023	17:43	LB125287
	Silver	1330	1250	106	90 - 110	P	05/04/2023	17:43	LB125287
	Sodium	23600	25000	94	90 - 110	P	05/04/2023	17:43	LB125287
	Thallium	4930	5000	98	90 - 110	P	05/04/2023	17:43	LB125287
	Vanadium	2360	2500	94	90 - 110	P	05/04/2023	17:43	LB125287
	Zinc	2500	2500	100	90 - 110	P	05/04/2023	17:43	LB125287
CCV06	Aluminum	9500	10000	95	90 - 110	P	05/04/2023	18:13	LB125287
	Antimony	5250	5000	105	90 - 110	P	05/04/2023	18:13	LB125287
	Arsenic	4960	5000	99	90 - 110	P	05/04/2023	18:13	LB125287
	Barium	10100	10000	101	90 - 110	P	05/04/2023	18:13	LB125287
	Beryllium	240	250	96	90 - 110	P	05/04/2023	18:13	LB125287
	Cadmium	2370	2500	95	90 - 110	P	05/04/2023	18:13	LB125287
	Calcium	23300	25000	93	90 - 110	P	05/04/2023	18:13	LB125287
	Chromium	939	1000	94	90 - 110	P	05/04/2023	18:13	LB125287
	Cobalt	2480	2500	99	90 - 110	P	05/04/2023	18:13	LB125287
	Copper	1290	1250	103	90 - 110	P	05/04/2023	18:13	LB125287
	Iron	5010	5000	100	90 - 110	P	05/04/2023	18:13	LB125287
	Lead	4950	5000	99	90 - 110	P	05/04/2023	18:13	LB125287
	Magnesium	24600	25000	98	90 - 110	P	05/04/2023	18:13	LB125287
	Manganese	2620	2500	105	90 - 110	P	05/04/2023	18:13	LB125287

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06	Nickel	2520	2500	101	90 - 110	P	05/04/2023	18:13	LB125287
	Potassium	25200	25000	101	90 - 110	P	05/04/2023	18:13	LB125287
	Selenium	5170	5000	103	90 - 110	P	05/04/2023	18:13	LB125287
	Silver	1360	1250	108	90 - 110	P	05/04/2023	18:13	LB125287
	Sodium	24100	25000	96	90 - 110	P	05/04/2023	18:13	LB125287
	Thallium	4870	5000	97	90 - 110	P	05/04/2023	18:13	LB125287
	Vanadium	2400	2500	96	90 - 110	P	05/04/2023	18:13	LB125287
	Zinc	2600	2500	104	90 - 110	P	05/04/2023	18:13	LB125287

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Metals

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CRDL STANDARD FOR AA & ICP

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.21	0.2	105	40 - 160	CV	04/28/2023	13:20	LB125204
CRA	Mercury	0.16	0.2	82	40 - 160	CV	05/02/2023	16:15	LB125251
CRI01	Aluminum	101	100	101	40 - 160	P	05/02/2023	17:20	LB125255
	Antimony	52.7	50.0	105	40 - 160	P	05/02/2023	17:20	LB125255
	Arsenic	22.5	20.0	112	40 - 160	P	05/02/2023	17:20	LB125255
	Barium	102	100	102	40 - 160	P	05/02/2023	17:20	LB125255
	Beryllium	6.58	6.0	110	40 - 160	P	05/02/2023	17:20	LB125255
	Cadmium	6.72	6.0	112	40 - 160	P	05/02/2023	17:20	LB125255
	Calcium	2030	2000	102	40 - 160	P	05/02/2023	17:20	LB125255
	Chromium	9.97	10.0	100	40 - 160	P	05/02/2023	17:20	LB125255
	Cobalt	30.5	30.0	102	40 - 160	P	05/02/2023	17:20	LB125255
	Copper	23.8	20.0	119	40 - 160	P	05/02/2023	17:20	LB125255
	Iron	99.5	100	100	40 - 160	P	05/02/2023	17:20	LB125255
	Lead	14.1	12.0	118	40 - 160	P	05/02/2023	17:20	LB125255
	Magnesium	2150	2000	107	40 - 160	P	05/02/2023	17:20	LB125255
	Manganese	22.4	20.0	112	40 - 160	P	05/02/2023	17:20	LB125255
	Nickel	40.5	40.0	101	40 - 160	P	05/02/2023	17:20	LB125255
	Potassium	1990	2000	100	40 - 160	P	05/02/2023	17:20	LB125255
	Selenium	21.7	20.0	109	40 - 160	P	05/02/2023	17:20	LB125255
	Silver	10.8	10.0	108	40 - 160	P	05/02/2023	17:20	LB125255
	Sodium	1900	2000	95	40 - 160	P	05/02/2023	17:20	LB125255
	Thallium	41.3	40.0	103	40 - 160	P	05/02/2023	17:20	LB125255
	Vanadium	37.8	40.0	95	40 - 160	P	05/02/2023	17:20	LB125255
	Zinc	45.8	40.0	114	40 - 160	P	05/02/2023	17:20	LB125255
CRI01	Aluminum	120	100	120	40 - 160	P	05/03/2023	14:15	LB125269
	Antimony	52.5	50.0	105	40 - 160	P	05/03/2023	14:15	LB125269
	Arsenic	22.2	20.0	111	40 - 160	P	05/03/2023	14:15	LB125269
	Barium	113	100	114	40 - 160	P	05/03/2023	14:15	LB125269
	Beryllium	6.52	6.0	109	40 - 160	P	05/03/2023	14:15	LB125269
	Cadmium	6.52	6.0	109	40 - 160	P	05/03/2023	14:15	LB125269
	Calcium	1980	2000	99	40 - 160	P	05/03/2023	14:15	LB125269
	Chromium	10.0	10.0	100	40 - 160	P	05/03/2023	14:15	LB125269
	Cobalt	30.7	30.0	102	40 - 160	P	05/03/2023	14:15	LB125269
	Copper	23.4	20.0	117	40 - 160	P	05/03/2023	14:15	LB125269
	Iron	103	100	103	40 - 160	P	05/03/2023	14:15	LB125269

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Metals

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CRDL STANDARD FOR AA & ICP

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Lead	12.8	12.0	107	40 - 160	P	05/03/2023	14:15	LB125269
	Magnesium	2200	2000	110	40 - 160	P	05/03/2023	14:15	LB125269
	Manganese	23.1	20.0	115	40 - 160	P	05/03/2023	14:15	LB125269
	Nickel	40.7	40.0	102	40 - 160	P	05/03/2023	14:15	LB125269
	Potassium	1950	2000	97	40 - 160	P	05/03/2023	14:15	LB125269
	Selenium	23.3	20.0	117	40 - 160	P	05/03/2023	14:15	LB125269
	Silver	11.5	10.0	116	40 - 160	P	05/03/2023	14:15	LB125269
	Sodium	1750	2000	88	40 - 160	P	05/03/2023	14:15	LB125269
	Thallium	42.6	40.0	106	40 - 160	P	05/03/2023	14:15	LB125269
	Vanadium	43.5	40.0	109	40 - 160	P	05/03/2023	14:15	LB125269
	Zinc	47.8	40.0	120	40 - 160	P	05/03/2023	14:15	LB125269
CRI01	Aluminum	98.1	100	98	40 - 160	P	05/04/2023	13:51	LB125287
	Antimony	49.6	50.0	99	40 - 160	P	05/04/2023	13:51	LB125287
	Arsenic	21.0	20.0	105	40 - 160	P	05/04/2023	13:51	LB125287
	Barium	103	100	103	40 - 160	P	05/04/2023	13:51	LB125287
	Beryllium	6.51	6.0	108	40 - 160	P	05/04/2023	13:51	LB125287
	Cadmium	6.24	6.0	104	40 - 160	P	05/04/2023	13:51	LB125287
	Calcium	1930	2000	96	40 - 160	P	05/04/2023	13:51	LB125287
	Chromium	9.64	10.0	96	40 - 160	P	05/04/2023	13:51	LB125287
	Cobalt	29.0	30.0	96	40 - 160	P	05/04/2023	13:51	LB125287
	Copper	24.1	20.0	120	40 - 160	P	05/04/2023	13:51	LB125287
	Iron	103	100	103	40 - 160	P	05/04/2023	13:51	LB125287
	Lead	14.0	12.0	116	40 - 160	P	05/04/2023	13:51	LB125287
	Magnesium	2140	2000	107	40 - 160	P	05/04/2023	13:51	LB125287
	Manganese	21.9	20.0	110	40 - 160	P	05/04/2023	13:51	LB125287
	Nickel	38.6	40.0	96	40 - 160	P	05/04/2023	13:51	LB125287
	Potassium	1910	2000	96	40 - 160	P	05/04/2023	13:51	LB125287
	Selenium	21.3	20.0	106	40 - 160	P	05/04/2023	13:51	LB125287
	Silver	10.4	10.0	104	40 - 160	P	05/04/2023	13:51	LB125287
	Sodium	1830	2000	91	40 - 160	P	05/04/2023	13:51	LB125287
	Thallium	39.9	40.0	100	40 - 160	P	05/04/2023	13:51	LB125287
	Vanadium	41.0	40.0	103	40 - 160	P	05/04/2023	13:51	LB125287
	Zinc	48.4	40.0	121	40 - 160	P	05/04/2023	13:51	LB125287

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB53	Mercury	0.20	+/-0.20	U	0.20	CV	04/28/2023	13:14	LB125204

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB79	Mercury	0.20	+/-0.20	U	0.20	CV	04/28/2023	13:18	LB125204
CCB80	Mercury	0.20	+/-0.20	U	0.20	CV	04/28/2023	13:45	LB125204
CCB81	Mercury	0.20	+/-0.20	U	0.20	CV	04/28/2023	14:16	LB125204
CCB82	Mercury	0.20	+/-0.20	U	0.20	CV	04/28/2023	14:33	LB125204

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB58	Mercury	0.20	+/-0.20	U	0.20	CV	05/02/2023	16:08	LB125251

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB98	Mercury	0.20	+/-0.20	U	0.20	CV	05/02/2023	16:13	LB125251
CCB99	Mercury	0.20	+/-0.20	U	0.20	CV	05/02/2023	16:40	LB125251
CCB01	Mercury	0.20	+/-0.20	U	0.20	CV	05/02/2023	17:07	LB125251

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	05/02/2023	17:16	LB125255
	Antimony	50.0	+/-50.0	U	50.0	P	05/02/2023	17:16	LB125255
	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2023	17:16	LB125255
	Barium	100	+/-100	U	100	P	05/02/2023	17:16	LB125255
	Beryllium	6.00	+/-6.00	U	6.00	P	05/02/2023	17:16	LB125255
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2023	17:16	LB125255
	Calcium	2000	+/-2000	U	2000	P	05/02/2023	17:16	LB125255
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2023	17:16	LB125255
	Cobalt	30.0	+/-30.0	U	30.0	P	05/02/2023	17:16	LB125255
	Copper	20.0	+/-20.0	U	20.0	P	05/02/2023	17:16	LB125255
	Iron	100	+/-100	U	100	P	05/02/2023	17:16	LB125255
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2023	17:16	LB125255
	Magnesium	2000	+/-2000	U	2000	P	05/02/2023	17:16	LB125255
	Manganese	20.0	+/-20.0	U	20.0	P	05/02/2023	17:16	LB125255
	Nickel	40.0	+/-40.0	U	40.0	P	05/02/2023	17:16	LB125255
	Potassium	2000	+/-2000	U	2000	P	05/02/2023	17:16	LB125255
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2023	17:16	LB125255
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2023	17:16	LB125255
	Sodium	2000	+/-2000	U	2000	P	05/02/2023	17:16	LB125255
	Thallium	40.0	+/-40.0	U	40.0	P	05/02/2023	17:16	LB125255
	Vanadium	40.0	+/-40.0	U	40.0	P	05/02/2023	17:16	LB125255
	Zinc	40.0	+/-40.0	U	40.0	P	05/02/2023	17:16	LB125255

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	05/02/2023	17:39	LB125255
	Antimony	50.0	+/-50.0	U	50.0	P	05/02/2023	17:39	LB125255
	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2023	17:39	LB125255
	Barium	100	+/-100	U	100	P	05/02/2023	17:39	LB125255
	Beryllium	6.00	+/-6.00	U	6.00	P	05/02/2023	17:39	LB125255
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2023	17:39	LB125255
	Calcium	2000	+/-2000	U	2000	P	05/02/2023	17:39	LB125255
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2023	17:39	LB125255
	Cobalt	30.0	+/-30.0	U	30.0	P	05/02/2023	17:39	LB125255
	Copper	20.0	+/-20.0	U	20.0	P	05/02/2023	17:39	LB125255
	Iron	100	+/-100	U	100	P	05/02/2023	17:39	LB125255
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2023	17:39	LB125255
	Magnesium	2000	+/-2000	U	2000	P	05/02/2023	17:39	LB125255
	Manganese	20.0	+/-20.0	U	20.0	P	05/02/2023	17:39	LB125255
	Nickel	40.0	+/-40.0	U	40.0	P	05/02/2023	17:39	LB125255
	Potassium	2000	+/-2000	U	2000	P	05/02/2023	17:39	LB125255
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2023	17:39	LB125255
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2023	17:39	LB125255
	Sodium	2000	+/-2000	U	2000	P	05/02/2023	17:39	LB125255
	Thallium	40.0	+/-40.0	U	40.0	P	05/02/2023	17:39	LB125255
	Vanadium	40.0	+/-40.0	U	40.0	P	05/02/2023	17:39	LB125255
	Zinc	40.0	+/-40.0	U	40.0	P	05/02/2023	17:39	LB125255
CCB02	Aluminum	100	+/-100	U	100	P	05/02/2023	18:42	LB125255
	Antimony	50.0	+/-50.0	U	50.0	P	05/02/2023	18:42	LB125255
	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2023	18:42	LB125255
	Barium	100	+/-100	U	100	P	05/02/2023	18:42	LB125255
	Beryllium	6.00	+/-6.00	U	6.00	P	05/02/2023	18:42	LB125255
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2023	18:42	LB125255
	Calcium	2000	+/-2000	U	2000	P	05/02/2023	18:42	LB125255
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2023	18:42	LB125255
	Cobalt	30.0	+/-30.0	U	30.0	P	05/02/2023	18:42	LB125255
	Copper	20.0	+/-20.0	U	20.0	P	05/02/2023	18:42	LB125255
	Iron	100	+/-100	U	100	P	05/02/2023	18:42	LB125255
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2023	18:42	LB125255
	Magnesium	2000	+/-2000	U	2000	P	05/02/2023	18:42	LB125255
	Manganese	20.0	+/-20.0	U	20.0	P	05/02/2023	18:42	LB125255
	Nickel	40.0	+/-40.0	U	40.0	P	05/02/2023	18:42	LB125255
	Potassium	2000	+/-2000	U	2000	P	05/02/2023	18:42	LB125255
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2023	18:42	LB125255
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2023	18:42	LB125255

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Sodium	2000	+/-2000	U	2000	P	05/02/2023	18:42	LB125255
	Thallium	40.0	+/-40.0	U	40.0	P	05/02/2023	18:42	LB125255
	Vanadium	40.0	+/-40.0	U	40.0	P	05/02/2023	18:42	LB125255
	Zinc	40.0	+/-40.0	U	40.0	P	05/02/2023	18:42	LB125255
CCB03	Aluminum	100	+/-100	U	100	P	05/02/2023	19:29	LB125255
	Antimony	50.0	+/-50.0	U	50.0	P	05/02/2023	19:29	LB125255
	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2023	19:29	LB125255
	Barium	100	+/-100	U	100	P	05/02/2023	19:29	LB125255
	Beryllium	6.00	+/-6.00	U	6.00	P	05/02/2023	19:29	LB125255
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2023	19:29	LB125255
	Calcium	2000	+/-2000	U	2000	P	05/02/2023	19:29	LB125255
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2023	19:29	LB125255
	Cobalt	30.0	+/-30.0	U	30.0	P	05/02/2023	19:29	LB125255
	Copper	20.0	+/-20.0	U	20.0	P	05/02/2023	19:29	LB125255
	Iron	100	+/-100	U	100	P	05/02/2023	19:29	LB125255
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2023	19:29	LB125255
	Magnesium	2000	+/-2000	U	2000	P	05/02/2023	19:29	LB125255
	Manganese	20.0	+/-20.0	U	20.0	P	05/02/2023	19:29	LB125255
	Nickel	40.0	+/-40.0	U	40.0	P	05/02/2023	19:29	LB125255
	Potassium	2000	+/-2000	U	2000	P	05/02/2023	19:29	LB125255
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2023	19:29	LB125255
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2023	19:29	LB125255
	Sodium	2000	+/-2000	U	2000	P	05/02/2023	19:29	LB125255
	Thallium	40.0	+/-40.0	U	40.0	P	05/02/2023	19:29	LB125255
	Vanadium	40.0	+/-40.0	U	40.0	P	05/02/2023	19:29	LB125255
	Zinc	40.0	+/-40.0	U	40.0	P	05/02/2023	19:29	LB125255
CCB04	Aluminum	100	+/-100	U	100	P	05/02/2023	20:15	LB125255
	Antimony	50.0	+/-50.0	U	50.0	P	05/02/2023	20:15	LB125255
	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2023	20:15	LB125255
	Barium	100	+/-100	U	100	P	05/02/2023	20:15	LB125255
	Beryllium	6.00	+/-6.00	U	6.00	P	05/02/2023	20:15	LB125255
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2023	20:15	LB125255
	Calcium	2000	+/-2000	U	2000	P	05/02/2023	20:15	LB125255
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2023	20:15	LB125255
	Cobalt	30.0	+/-30.0	U	30.0	P	05/02/2023	20:15	LB125255
	Copper	20.0	+/-20.0	U	20.0	P	05/02/2023	20:15	LB125255
	Iron	100	+/-100	U	100	P	05/02/2023	20:15	LB125255
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2023	20:15	LB125255
	Magnesium	2000	+/-2000	U	2000	P	05/02/2023	20:15	LB125255
	Manganese	20.0	+/-20.0	U	20.0	P	05/02/2023	20:15	LB125255

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Nickel	40.0	+/-40.0	U	40.0	P	05/02/2023	20:15	LB125255
	Potassium	2000	+/-2000	U	2000	P	05/02/2023	20:15	LB125255
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2023	20:15	LB125255
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2023	20:15	LB125255
	Sodium	2000	+/-2000	U	2000	P	05/02/2023	20:15	LB125255
	Thallium	40.0	+/-40.0	U	40.0	P	05/02/2023	20:15	LB125255
	Vanadium	40.0	+/-40.0	U	40.0	P	05/02/2023	20:15	LB125255
	Zinc	40.0	+/-40.0	U	40.0	P	05/02/2023	20:15	LB125255
CCB05	Aluminum	100	+/-100	U	100	P	05/02/2023	21:01	LB125255
	Antimony	50.0	+/-50.0	U	50.0	P	05/02/2023	21:01	LB125255
	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2023	21:01	LB125255
	Barium	100	+/-100	U	100	P	05/02/2023	21:01	LB125255
	Beryllium	6.00	+/-6.00	U	6.00	P	05/02/2023	21:01	LB125255
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2023	21:01	LB125255
	Calcium	2000	+/-2000	U	2000	P	05/02/2023	21:01	LB125255
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2023	21:01	LB125255
	Cobalt	30.0	+/-30.0	U	30.0	P	05/02/2023	21:01	LB125255
	Copper	20.0	+/-20.0	U	20.0	P	05/02/2023	21:01	LB125255
	Iron	100	+/-100	U	100	P	05/02/2023	21:01	LB125255
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2023	21:01	LB125255
	Magnesium	2000	+/-2000	U	2000	P	05/02/2023	21:01	LB125255
	Manganese	20.0	+/-20.0	U	20.0	P	05/02/2023	21:01	LB125255
	Nickel	40.0	+/-40.0	U	40.0	P	05/02/2023	21:01	LB125255
	Potassium	2000	+/-2000	U	2000	P	05/02/2023	21:01	LB125255
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2023	21:01	LB125255
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2023	21:01	LB125255
	Sodium	2000	+/-2000	U	2000	P	05/02/2023	21:01	LB125255
	Thallium	40.0	+/-40.0	U	40.0	P	05/02/2023	21:01	LB125255
	Vanadium	40.0	+/-40.0	U	40.0	P	05/02/2023	21:01	LB125255
	Zinc	40.0	+/-40.0	U	40.0	P	05/02/2023	21:01	LB125255
CCB06	Aluminum	100	+/-100	U	100	P	05/02/2023	21:49	LB125255
	Antimony	50.0	+/-50.0	U	50.0	P	05/02/2023	21:49	LB125255
	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2023	21:49	LB125255
	Barium	100	+/-100	U	100	P	05/02/2023	21:49	LB125255
	Beryllium	6.00	+/-6.00	U	6.00	P	05/02/2023	21:49	LB125255
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2023	21:49	LB125255
	Calcium	2000	+/-2000	U	2000	P	05/02/2023	21:49	LB125255
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2023	21:49	LB125255
	Cobalt	30.0	+/-30.0	U	30.0	P	05/02/2023	21:49	LB125255
	Copper	20.0	+/-20.0	U	20.0	P	05/02/2023	21:49	LB125255

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Iron	100	+/-100	U	100	P	05/02/2023	21:49	LB125255
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2023	21:49	LB125255
	Magnesium	2000	+/-2000	U	2000	P	05/02/2023	21:49	LB125255
	Manganese	20.0	+/-20.0	U	20.0	P	05/02/2023	21:49	LB125255
	Nickel	40.0	+/-40.0	U	40.0	P	05/02/2023	21:49	LB125255
	Potassium	2000	+/-2000	U	2000	P	05/02/2023	21:49	LB125255
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2023	21:49	LB125255
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2023	21:49	LB125255
	Sodium	2000	+/-2000	U	2000	P	05/02/2023	21:49	LB125255
	Thallium	40.0	+/-40.0	U	40.0	P	05/02/2023	21:49	LB125255
	Vanadium	40.0	+/-40.0	U	40.0	P	05/02/2023	21:49	LB125255
	Zinc	40.0	+/-40.0	U	40.0	P	05/02/2023	21:49	LB125255
CCB07	Aluminum	100	+/-100	U	100	P	05/02/2023	22:22	LB125255
	Antimony	50.0	+/-50.0	U	50.0	P	05/02/2023	22:22	LB125255
	Arsenic	20.0	+/-20.0	U	20.0	P	05/02/2023	22:22	LB125255
	Barium	100	+/-100	U	100	P	05/02/2023	22:22	LB125255
	Beryllium	6.00	+/-6.00	U	6.00	P	05/02/2023	22:22	LB125255
	Cadmium	6.00	+/-6.00	U	6.00	P	05/02/2023	22:22	LB125255
	Calcium	2000	+/-2000	U	2000	P	05/02/2023	22:22	LB125255
	Chromium	10.0	+/-10.0	U	10.0	P	05/02/2023	22:22	LB125255
	Cobalt	30.0	+/-30.0	U	30.0	P	05/02/2023	22:22	LB125255
	Copper	20.0	+/-20.0	U	20.0	P	05/02/2023	22:22	LB125255
	Iron	100	+/-100	U	100	P	05/02/2023	22:22	LB125255
	Lead	12.0	+/-12.0	U	12.0	P	05/02/2023	22:22	LB125255
	Magnesium	2000	+/-2000	U	2000	P	05/02/2023	22:22	LB125255
	Manganese	20.0	+/-20.0	U	20.0	P	05/02/2023	22:22	LB125255
	Nickel	40.0	+/-40.0	U	40.0	P	05/02/2023	22:22	LB125255
	Potassium	2000	+/-2000	U	2000	P	05/02/2023	22:22	LB125255
	Selenium	20.0	+/-20.0	U	20.0	P	05/02/2023	22:22	LB125255
	Silver	10.0	+/-10.0	U	10.0	P	05/02/2023	22:22	LB125255
	Sodium	2000	+/-2000	U	2000	P	05/02/2023	22:22	LB125255
	Thallium	40.0	+/-40.0	U	40.0	P	05/02/2023	22:22	LB125255
	Vanadium	40.0	+/-40.0	U	40.0	P	05/02/2023	22:22	LB125255
	Zinc	40.0	+/-40.0	U	40.0	P	05/02/2023	22:22	LB125255

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	05/03/2023	14:11	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	14:11	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	14:11	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	14:11	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	14:11	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	14:11	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	14:11	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	14:11	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	14:11	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	14:11	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	14:11	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	14:11	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	14:11	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	14:11	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	14:11	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	14:11	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	14:11	LB125269
	Silver	1.54	+/-10.0	J	10.0	P	05/03/2023	14:11	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	14:11	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	14:11	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	14:11	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	14:11	LB125269

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	05/03/2023	14:39	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	14:39	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	14:39	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	14:39	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	14:39	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	14:39	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	14:39	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	14:39	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	14:39	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	14:39	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	14:39	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	14:39	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	14:39	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	14:39	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	14:39	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	14:39	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	14:39	LB125269
	Silver	1.35	+/-10.0	J	10.0	P	05/03/2023	14:39	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	14:39	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	14:39	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	14:39	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	14:39	LB125269
CCB02	Aluminum	100	+/-100	U	100	P	05/03/2023	15:30	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	15:30	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	15:30	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	15:30	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	15:30	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	15:30	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	15:30	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	15:30	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	15:30	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	15:30	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	15:30	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	15:30	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	15:30	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	15:30	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	15:30	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	15:30	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	15:30	LB125269
	Silver	10.0	+/-10.0	U	10.0	P	05/03/2023	15:30	LB125269

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Sodium	2000	+/-2000	U	2000	P	05/03/2023	15:30	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	15:30	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	15:30	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	15:30	LB125269
CCB03	Aluminum	100	+/-100	U	100	P	05/03/2023	16:43	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	16:43	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	16:43	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	16:43	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	16:43	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	16:43	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	16:43	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	16:43	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	16:43	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	16:43	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	16:43	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	16:43	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	16:43	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	16:43	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	16:43	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	16:43	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	16:43	LB125269
	Silver	10.0	+/-10.0	U	10.0	P	05/03/2023	16:43	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	16:43	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	16:43	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	16:43	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	16:43	LB125269
CCB04	Aluminum	100	+/-100	U	100	P	05/03/2023	17:34	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	17:34	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	17:34	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	17:34	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	17:34	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	17:34	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	17:34	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	17:34	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	17:34	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	17:34	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	17:34	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	17:34	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	17:34	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	17:34	LB125269

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	17:34	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	17:34	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	17:34	LB125269
	Silver	1.69	+/-10.0	J	10.0	P	05/03/2023	17:34	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	17:34	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	17:34	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	17:34	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	17:34	LB125269
CCB05	Aluminum	100	+/-100	U	100	P	05/03/2023	18:20	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	18:20	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	18:20	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	18:20	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	18:20	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	18:20	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	18:20	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	18:20	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	18:20	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	18:20	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	18:20	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	18:20	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	18:20	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	18:20	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	18:20	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	18:20	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	18:20	LB125269
	Silver	10.0	+/-10.0	U	10.0	P	05/03/2023	18:20	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	18:20	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	18:20	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	18:20	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	18:20	LB125269
CCB06	Aluminum	100	+/-100	U	100	P	05/03/2023	19:07	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	19:07	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	19:07	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	19:07	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	19:07	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	19:07	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	19:07	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	19:07	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	19:07	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	19:07	LB125269

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Iron	100	+/-100	U	100	P	05/03/2023	19:07	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	19:07	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	19:07	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	19:07	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	19:07	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	19:07	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	19:07	LB125269
	Silver	2.29	+/-10.0	J	10.0	P	05/03/2023	19:07	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	19:07	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	19:07	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	19:07	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	19:07	LB125269

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	05/04/2023	13:47	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	13:47	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	13:47	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	13:47	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	13:47	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	13:47	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	13:47	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	13:47	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	13:47	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	13:47	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	13:47	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	13:47	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	13:47	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	13:47	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	13:47	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	13:47	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	13:47	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	13:47	LB125287
	Sodium	2000	+/-2000	U	2000	P	05/04/2023	13:47	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	13:47	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	13:47	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	13:47	LB125287

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	05/04/2023	14:18	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	14:18	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	14:18	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	14:18	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	14:18	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	14:18	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	14:18	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	14:18	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	14:18	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	14:18	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	14:18	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	14:18	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	14:18	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	14:18	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	14:18	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	14:18	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	14:18	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	14:18	LB125287
	Sodium	2000	+/-2000	U	2000	P	05/04/2023	14:18	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	14:18	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	14:18	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	14:18	LB125287
CCB02	Aluminum	100	+/-100	U	100	P	05/04/2023	15:09	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	15:09	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	15:09	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	15:09	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	15:09	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	15:09	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	15:09	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	15:09	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	15:09	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	15:09	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	15:09	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	15:09	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	15:09	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	15:09	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	15:09	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	15:09	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	15:09	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	15:09	LB125287

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Sodium	2000	+/-2000	U	2000	P	05/04/2023	15:09	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	15:09	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	15:09	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	15:09	LB125287
CCB03	Aluminum	100	+/-100	U	100	P	05/04/2023	15:57	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	15:57	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	15:57	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	15:57	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	15:57	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	15:57	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	15:57	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	15:57	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	15:57	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	15:57	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	15:57	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	15:57	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	15:57	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	15:57	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	15:57	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	15:57	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	15:57	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	15:57	LB125287
	Sodium	1020	+/-2000	J	2000	P	05/04/2023	15:57	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	15:57	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	15:57	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	15:57	LB125287
CCB04	Aluminum	100	+/-100	U	100	P	05/04/2023	16:55	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	16:55	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	16:55	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	16:55	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	16:55	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	16:55	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	16:55	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	16:55	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	16:55	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	16:55	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	16:55	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	16:55	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	16:55	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	16:55	LB125287

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	16:55	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	16:55	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	16:55	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	16:55	LB125287
	Sodium	2000	+/-2000	U	2000	P	05/04/2023	16:55	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	16:55	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	16:55	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	16:55	LB125287
CCB05	Aluminum	100	+/-100	U	100	P	05/04/2023	17:47	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	17:47	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	17:47	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	17:47	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	17:47	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	17:47	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	17:47	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	17:47	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	17:47	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	17:47	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	17:47	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	17:47	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	17:47	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	17:47	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	17:47	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	17:47	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	17:47	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	17:47	LB125287
	Sodium	2000	+/-2000	U	2000	P	05/04/2023	17:47	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	17:47	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	17:47	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	17:47	LB125287
CCB06	Aluminum	100	+/-100	U	100	P	05/04/2023	18:17	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	18:17	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	18:17	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	18:17	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	18:17	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	18:17	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	18:17	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	18:17	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	18:17	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	18:17	LB125287

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Iron	100	+/-100	U	100	P	05/04/2023	18:17	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	18:17	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	18:17	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	18:17	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	18:17	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	18:17	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	18:17	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	18:17	LB125287
	Sodium	2000	+/-2000	U	2000	P	05/04/2023	18:17	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	18:17	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	18:17	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	18:17	LB125287

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PREPARATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB152487BL		**WATER**		**Batch Number:**	**PB152487**		**Prep Date:**	**04/28/2023**	
	Mercury	0.20	<0.20	U	0.20	CV	04/28/2023	13:27	LB125204

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB152538BL		**WATER**		**Batch Number:**	**PB152538**		**Prep Date:**	**05/02/2023**	
	Mercury	0.20	<0.20	U	0.20	CV	05/02/2023	16:22	LB125251

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Metals
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PREPARATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB152420BL		**WATER**		**Batch Number:**	**PB152420**		**Prep Date:**	**05/02/2023**	
	Aluminum	50.0	<50.0	U	50.0	P	05/02/2023	17:59	LB125255
	Antimony	25.0	<25.0	U	25.0	P	05/02/2023	17:59	LB125255
	Arsenic	10.0	<10.0	U	10.0	P	05/02/2023	17:59	LB125255
	Barium	50.0	<50.0	U	50.0	P	05/02/2023	17:59	LB125255
	Beryllium	3.00	<3.00	U	3.00	P	05/02/2023	17:59	LB125255
	Cadmium	3.00	<3.00	U	3.00	P	05/02/2023	17:59	LB125255
	Calcium	1000	<1000	U	1000	P	05/02/2023	17:59	LB125255
	Chromium	5.00	<5.00	U	5.00	P	05/02/2023	17:59	LB125255
	Cobalt	15.0	<15.0	U	15.0	P	05/02/2023	17:59	LB125255
	Copper	10.0	<10.0	U	10.0	P	05/02/2023	17:59	LB125255
	Iron	50.0	<50.0	U	50.0	P	05/02/2023	17:59	LB125255
	Lead	6.00	<6.00	U	6.00	P	05/02/2023	17:59	LB125255
	Magnesium	1000	<1000	U	1000	P	05/02/2023	17:59	LB125255
	Manganese	10.0	<10.0	U	10.0	P	05/02/2023	17:59	LB125255
	Nickel	20.0	<20.0	U	20.0	P	05/02/2023	17:59	LB125255
	Potassium	1000	<1000	U	1000	P	05/02/2023	17:59	LB125255
	Selenium	10.0	<10.0	U	10.0	P	05/02/2023	17:59	LB125255
	Silver	5.00	<5.00	U	5.00	P	05/02/2023	17:59	LB125255
	Sodium	1000	<1000	U	1000	P	05/02/2023	17:59	LB125255
	Thallium	20.0	<20.0	U	20.0	P	05/02/2023	17:59	LB125255
	Vanadium	20.0	<20.0	U	20.0	P	05/02/2023	17:59	LB125255
	Zinc	20.0	<20.0	U	20.0	P	05/02/2023	17:59	LB125255

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Metals
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INTERFERENCE CHECK SAMPLE

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	256000	255000	100	216000	294000	05/02/2023	17:24	LB125255
	Antimony	2.91			-50	50	05/02/2023	17:24	LB125255
	Arsenic	0.13			-20	20	05/02/2023	17:24	LB125255
	Barium	4.66	6.0	78	-94	106	05/02/2023	17:24	LB125255
	Beryllium	1.19			-6	6	05/02/2023	17:24	LB125255
	Cadmium	1.69	1.0	169	-5	7	05/02/2023	17:24	LB125255
	Calcium	241000	245000	98	208000	282000	05/02/2023	17:24	LB125255
	Chromium	54.1	52.0	104	42	62	05/02/2023	17:24	LB125255
	Cobalt	2.17			-30	30	05/02/2023	17:24	LB125255
	Copper	14.1	2.0	705	-18	22	05/02/2023	17:24	LB125255
	Iron	99600	101000	99	85600	116500	05/02/2023	17:24	LB125255
	Lead	0.23			-12	12	05/02/2023	17:24	LB125255
	Magnesium	247000	255000	97	216000	294000	05/02/2023	17:24	LB125255
	Manganese	11.5	7.0	164	-13	27	05/02/2023	17:24	LB125255
	Nickel	3.42	2.0	171	-38	42	05/02/2023	17:24	LB125255
	Potassium	-45.3			0	0	05/02/2023	17:24	LB125255
	Selenium	-6.41			-20	20	05/02/2023	17:24	LB125255
	Silver	6.14			-10	10	05/02/2023	17:24	LB125255
	Sodium	-27.0			0	0	05/02/2023	17:24	LB125255
	Thallium	-6.37			-40	40	05/02/2023	17:24	LB125255
	Vanadium	1.74			-40	40	05/02/2023	17:24	LB125255
	Zinc	-4.47			-40	40	05/02/2023	17:24	LB125255
ICSAB01	Aluminum	250000	247000	101	209000	285000	05/02/2023	17:27	LB125255
	Antimony	593	618	96	525	711	05/02/2023	17:27	LB125255
	Arsenic	104	104	100	88.4	120	05/02/2023	17:27	LB125255
	Barium	499	537	93	437	637	05/02/2023	17:27	LB125255
	Beryllium	499	495	101	420	570	05/02/2023	17:27	LB125255
	Cadmium	996	972	102	826	1120	05/02/2023	17:27	LB125255
	Calcium	236000	235000	100	199000	271000	05/02/2023	17:27	LB125255
	Chromium	527	542	97	460	624	05/02/2023	17:27	LB125255
	Cobalt	488	476	102	404	548	05/02/2023	17:27	LB125255
	Copper	495	511	97	434	588	05/02/2023	17:27	LB125255
	Iron	94900	99300	96	84400	114500	05/02/2023	17:27	LB125255
	Lead	49.1	49.0	100	37	61	05/02/2023	17:27	LB125255
	Magnesium	240000	248000	97	210000	286000	05/02/2023	17:27	LB125255
	Manganese	490	507	97	430	584	05/02/2023	17:27	LB125255
	Nickel	964	954	101	810	1100	05/02/2023	17:27	LB125255
	Potassium	-28.7			0	0	05/02/2023	17:27	LB125255
	Selenium	42.0	46.0	91	26	66	05/02/2023	17:27	LB125255
	Silver	214	201	106	170	232	05/02/2023	17:27	LB125255
	Sodium	-27.2			0	0	05/02/2023	17:27	LB125255
	Thallium	91.1	108	84	68	148	05/02/2023	17:27	LB125255
	Vanadium	467	491	95	417	565	05/02/2023	17:27	LB125255
	Zinc	1020	952	107	809	1095	05/02/2023	17:27	LB125255
ICSA01	Aluminum	260000	255000	102	216000	294000	05/03/2023	14:19	LB125269

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Metals
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INTERFERENCE CHECK SAMPLE

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Antimony	2.06			-50	50	05/03/2023	14:19	LB125269
	Arsenic	-0.24			-20	20	05/03/2023	14:19	LB125269
	Barium	12.2	6.0	203	-94	106	05/03/2023	14:19	LB125269
	Beryllium	1.20			-6	6	05/03/2023	14:19	LB125269
	Cadmium	1.52	1.0	152	-5	7	05/03/2023	14:19	LB125269
	Calcium	245000	245000	100	208000	282000	05/03/2023	14:19	LB125269
	Chromium	52.7	52.0	101	42	62	05/03/2023	14:19	LB125269
	Cobalt	2.18			-30	30	05/03/2023	14:19	LB125269
	Copper	12.5	2.0	625	-18	22	05/03/2023	14:19	LB125269
	Iron	97400	101000	96	85600	116500	05/03/2023	14:19	LB125269
	Lead	-2.76			-12	12	05/03/2023	14:19	LB125269
	Magnesium	256000	255000	100	216000	294000	05/03/2023	14:19	LB125269
	Manganese	12.3	7.0	176	-13	27	05/03/2023	14:19	LB125269
	Nickel	3.56	2.0	178	-38	42	05/03/2023	14:19	LB125269
	Potassium	-84.5			0	0	05/03/2023	14:19	LB125269
	Selenium	5.85			-20	20	05/03/2023	14:19	LB125269
	Silver	0.32			-10	10	05/03/2023	14:19	LB125269
	Sodium	-96.6			0	0	05/03/2023	14:19	LB125269
	Thallium	-10.8			-40	40	05/03/2023	14:19	LB125269
	Vanadium	0.27			-40	40	05/03/2023	14:19	LB125269
	Zinc	-3.16			-40	40	05/03/2023	14:19	LB125269
ICSAB01	Aluminum	251000	247000	102	209000	285000	05/03/2023	14:23	LB125269
	Antimony	610	618	99	525	711	05/03/2023	14:23	LB125269
	Arsenic	105	104	101	88.4	120	05/03/2023	14:23	LB125269
	Barium	535	537	100	437	637	05/03/2023	14:23	LB125269
	Beryllium	493	495	100	420	570	05/03/2023	14:23	LB125269
	Cadmium	999	972	103	826	1120	05/03/2023	14:23	LB125269
	Calcium	237000	235000	101	199000	271000	05/03/2023	14:23	LB125269
	Chromium	508	542	94	460	624	05/03/2023	14:23	LB125269
	Cobalt	500	476	105	404	548	05/03/2023	14:23	LB125269
	Copper	502	511	98	434	588	05/03/2023	14:23	LB125269
	Iron	93500	99300	94	84400	114500	05/03/2023	14:23	LB125269
	Lead	48.1	49.0	98	37	61	05/03/2023	14:23	LB125269
	Magnesium	248000	248000	100	210000	286000	05/03/2023	14:23	LB125269
	Manganese	519	507	102	430	584	05/03/2023	14:23	LB125269
	Nickel	995	954	104	810	1100	05/03/2023	14:23	LB125269
	Potassium	-42.0			0	0	05/03/2023	14:23	LB125269
	Selenium	51.6	46.0	112	26	66	05/03/2023	14:23	LB125269
	Silver	193	201	96	170	232	05/03/2023	14:23	LB125269
	Sodium	-103			0	0	05/03/2023	14:23	LB125269
	Thallium	95.8	108	89	68	148	05/03/2023	14:23	LB125269
	Vanadium	482	491	98	417	565	05/03/2023	14:23	LB125269
	Zinc	1020	952	107	809	1095	05/03/2023	14:23	LB125269
ICSA01	Aluminum	256000	255000	100	216000	294000	05/04/2023	13:55	LB125287
	Antimony	-0.32			-50	50	05/04/2023	13:55	LB125287

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INTERFERENCE CHECK SAMPLE

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	-0.91			-20	20	05/04/2023	13:55	LB125287
	Barium	7.84	6.0	131	-94	106	05/04/2023	13:55	LB125287
	Beryllium	1.32			-6	6	05/04/2023	13:55	LB125287
	Cadmium	2.32	1.0	232	-5	7	05/04/2023	13:55	LB125287
	Calcium	245000	245000	100	208000	282000	05/04/2023	13:55	LB125287
	Chromium	55.1	52.0	106	42	62	05/04/2023	13:55	LB125287
	Cobalt	1.81			-30	30	05/04/2023	13:55	LB125287
	Copper	2.82	2.0	141	-18	22	05/04/2023	13:55	LB125287
	Iron	96700	101000	96	85600	116500	05/04/2023	13:55	LB125287
	Lead	-1.13			-12	12	05/04/2023	13:55	LB125287
	Magnesium	256000	255000	100	216000	294000	05/04/2023	13:55	LB125287
	Manganese	13.4	7.0	191	-13	27	05/04/2023	13:55	LB125287
	Nickel	3.31	2.0	166	-38	42	05/04/2023	13:55	LB125287
	Potassium	-57.3			0	0	05/04/2023	13:55	LB125287
	Selenium	2.64			-20	20	05/04/2023	13:55	LB125287
	Silver	-0.32			-10	10	05/04/2023	13:55	LB125287
	Sodium	-50.2			0	0	05/04/2023	13:55	LB125287
	Thallium	-6.74			-40	40	05/04/2023	13:55	LB125287
	Vanadium	3.92			-40	40	05/04/2023	13:55	LB125287
	Zinc	-3.08			-40	40	05/04/2023	13:55	LB125287
ICSAB01	Aluminum	260000	247000	105	209000	285000	05/04/2023	13:58	LB125287
	Antimony	621	618	100	525	711	05/04/2023	13:58	LB125287
	Arsenic	103	104	99	88.4	120	05/04/2023	13:58	LB125287
	Barium	532	537	99	437	637	05/04/2023	13:58	LB125287
	Beryllium	520	495	105	420	570	05/04/2023	13:58	LB125287
	Cadmium	1030	972	106	826	1120	05/04/2023	13:58	LB125287
	Calcium	249000	235000	106	199000	271000	05/04/2023	13:58	LB125287
	Chromium	554	542	102	460	624	05/04/2023	13:58	LB125287
	Cobalt	506	476	106	404	548	05/04/2023	13:58	LB125287
	Copper	498	511	98	434	588	05/04/2023	13:58	LB125287
	Iron	99700	99300	100	84400	114500	05/04/2023	13:58	LB125287
	Lead	49.9	49.0	102	37	61	05/04/2023	13:58	LB125287
	Magnesium	261000	248000	105	210000	286000	05/04/2023	13:58	LB125287
	Manganese	529	507	104	430	584	05/04/2023	13:58	LB125287
	Nickel	1010	954	106	810	1100	05/04/2023	13:58	LB125287
	Potassium	-92.0			0	0	05/04/2023	13:58	LB125287
	Selenium	53.1	46.0	115	26	66	05/04/2023	13:58	LB125287
	Silver	221	201	110	170	232	05/04/2023	13:58	LB125287
	Sodium	-54.2			0	0	05/04/2023	13:58	LB125287
	Thallium	96.5	108	89	68	148	05/04/2023	13:58	LB125287
	Vanadium	501	491	102	417	565	05/04/2023	13:58	LB125287
	Zinc	1070	952	112	809	1095	05/04/2023	13:58	LB125287

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: GEI Consultants, Inc., P.C. **level:** low **sdg no.:** O2495

contract: GEIC06 **lab code:** CHEM **case no.:** O2495 **sas no.:** O2495

matrix: Water **sample id:** O2495-09 **client id:** GMW-5MS

Percent Solids for Sample: NA **Spiked ID:** O2495-09MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1810		873		1000	94		P
Antimony	ug/L	75 - 125	377		25.0	U	400	94		P
Arsenic	ug/L	75 - 125	390		10.0	U	400	98		P
Barium	ug/L	75 - 125	127		36.6	J	100	90		P
Beryllium	ug/L	75 - 125	92.2		3.00	U	100	92		P
Cadmium	ug/L	75 - 125	95.7		3.51		100	92		P
Calcium	ug/L	75 - 125	64300		67900		500	-708		P
Chromium	ug/L	75 - 125	188		1.83	J	200	93		P
Cobalt	ug/L	75 - 125	93.7		15.0	U	100	94		P
Copper	ug/L	75 - 125	153		13.3		150	93		P
Iron	ug/L	75 - 125	3090		1930		1500	77		P
Lead	ug/L	75 - 125	486		19.2		500	93		P
Magnesium	ug/L	75 - 125	6380		5990		1000	40		P
Manganese	ug/L	75 - 125	270		189		100	81		P
Nickel	ug/L	75 - 125	236		4.64	J	250	92		P
Potassium	ug/L	75 - 125	12500		8000		5000	89		P
Selenium	ug/L	75 - 125	958		10.0	U	1000	96		P
Silver	ug/L	75 - 125	35.5		5.00	U	37.5	95		P
Sodium	ug/L	75 - 125	6830		5930		1500	60	N	P
Thallium	ug/L	75 - 125	917		20.0	U	1000	92		P
Vanadium	ug/L	75 - 125	146		12.1	J	150	89		P
Zinc	ug/L	75 - 125	119		24.4		100	95		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: GEI Consultants, Inc., P.C. **level:** low **sdg no.:** O2495

contract: GEIC06 **lab code:** CHEM **case no.:** O2495 **sas no.:** O2495

matrix: Water **sample id:** O2495-09 **client id:** GMW-5MSD

Percent Solids for Sample: NA **Spiked ID:** O2495-09MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1940		873		1000	106		P
Antimony	ug/L	75 - 125	386		25.0	U	400	96		P
Arsenic	ug/L	75 - 125	399		10.0	U	400	100		P
Barium	ug/L	75 - 125	136		36.6	J	100	100		P
Beryllium	ug/L	75 - 125	98.2		3.00	U	100	98		P
Cadmium	ug/L	75 - 125	98.1		3.51		100	95		P
Calcium	ug/L	75 - 125	68600		67900		500	152		P
Chromium	ug/L	75 - 125	186		1.83	J	200	92		P
Cobalt	ug/L	75 - 125	95.8		15.0	U	100	96		P
Copper	ug/L	75 - 125	157		13.3		150	96		P
Iron	ug/L	75 - 125	3020		1930		1500	72	N	P
Lead	ug/L	75 - 125	498		19.2		500	96		P
Magnesium	ug/L	75 - 125	6880		5990		1000	89		P
Manganese	ug/L	75 - 125	289		189		100	100		P
Nickel	ug/L	75 - 125	241		4.64	J	250	95		P
Potassium	ug/L	75 - 125	12200		8000		5000	84		P
Selenium	ug/L	75 - 125	981		10.0	U	1000	98		P
Silver	ug/L	75 - 125	34.8		5.00	U	37.5	93		P
Sodium	ug/L	75 - 125	6740		5930		1500	54	N	P
Thallium	ug/L	75 - 125	940		20.0	U	1000	94		P
Vanadium	ug/L	75 - 125	158		12.1	J	150	97		P
Zinc	ug/L	75 - 125	117		24.4		100	93		P

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metals
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MATRIX SPIKE SUMMARY

client: GEI Consultants, Inc., P.C. **level:** low **sdg no.:** O2495

contract: GEIC06 **lab code:** CHEM **case no.:** O2495 **sas no.:** O2495

matrix: Water **sample id:** O2521-07 **client id:** GMW-7MS

Percent Solids for Sample: NA **Spiked ID:** O2521-09 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	4.62		0.083	J	4.0	113		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: GEI Consultants, Inc., P.C. **level:** low **sdg no.:** O2495

contract: GEIC06 **lab code:** CHEM **case no.:** O2495 **sas no.:** O2495

matrix: Water **sample id:** O2521-07 **client id:** GMW-7MSD

Percent Solids for Sample: NA **Spiked ID:** O2521-10 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	4.36		0.083	J	4.0	107		CV

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metals
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MATRIX SPIKE SUMMARY

client: GEI Consultants, Inc., P.C. **level:** low **sdg no.:** O2495

contract: GEIC06 **lab code:** CHEM **case no.:** O2495 **sas no.:** O2495

matrix: Water **sample id:** O2521-08 **client id:** GMW-7MS

Percent Solids for Sample: NA **Spiked ID:** O2521-11 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.61		0.20	U	4.0	90		CV

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: GEI Consultants, Inc., P.C. **level:** low **sdg no.:** O2495

contract: GEIC06 **lab code:** CHEM **case no.:** O2495 **sas no.:** O2495

matrix: Water **sample id:** O2521-08 **client id:** GMW-7MSD

Percent Solids for Sample: NA **Spiked ID:** O2521-12 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.50		0.20	U	4.0	88		CV

CHEMTECH

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Matrix: Water **Level:** LOW **Client ID:** GMW-5A

Sample ID: O2495-09 **Spiked ID:** O2495-09A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	75 - 125	3380		1930		1500	97		P
Sodium	ug/L	75 - 125	7030		5930		1500	73		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **Level:** LOW **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Matrix: Water **Sample ID:** O2495-09 **Client ID:** GMW-5DUP

Percent Solids for Sample: NA **Duplicate ID** O2495-09DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	873		856		2		P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	10.0	U	4.37	J	200.0		P
Barium	ug/L	20	36.6	J	36.3	J	1		P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	3.51		3.42		3		P
Calcium	ug/L	20	67900		66900		1		P
Chromium	ug/L	20	1.83	J	1.84	J	1		P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	13.3		13.0		2		P
Iron	ug/L	20	1930		1850		4		P
Lead	ug/L	20	19.2		18.6		3		P
Magnesium	ug/L	20	5990		5890		2		P
Manganese	ug/L	20	189		186		2		P
Nickel	ug/L	20	4.64	J	4.53	J	2		P
Potassium	ug/L	20	8000		7690		4		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	5930		5640		5		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	12.1	J	10.9	J	11		P
Zinc	ug/L	20	24.4		23.3		5		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **Level:** LOW **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Matrix: Water **Sample ID:** O2495-09MS **Client ID:** GMW-5MSD

Percent Solids for Sample: NA **Duplicate ID** O2495-09MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	1810		1940		7		P
Antimony	ug/L	20	377		386		2		P
Arsenic	ug/L	20	390		399		2		P
Barium	ug/L	20	127		136		7		P
Beryllium	ug/L	20	92.2		98.2		6		P
Cadmium	ug/L	20	95.7		98.1		2		P
Calcium	ug/L	20	64300		68600		6		P
Chromium	ug/L	20	188		186		1		P
Cobalt	ug/L	20	93.7		95.8		2		P
Copper	ug/L	20	153		157		3		P
Iron	ug/L	20	3090		3020		2		P
Lead	ug/L	20	486		498		2		P
Magnesium	ug/L	20	6380		6880		8		P
Manganese	ug/L	20	270		289		7		P
Nickel	ug/L	20	236		241		2		P
Potassium	ug/L	20	12500		12200		2		P
Selenium	ug/L	20	958		981		2		P
Silver	ug/L	20	35.5		34.8		2		P
Sodium	ug/L	20	6830		6740		1		P
Thallium	ug/L	20	917		940		2		P
Vanadium	ug/L	20	146		158		8		P
Zinc	ug/L	20	119		117		2		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **Level:** LOW **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Matrix: Water **Sample ID:** O2521-07 **Client ID:** GMW-7DUP

Percent Solids for Sample: NA **Duplicate ID** O2521-07DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.083	J	0.090	J	8		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **Level:** LOW **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Matrix: Water **Sample ID:** O2521-08 **Client ID:** GMW-7DUP

Percent Solids for Sample: NA **Duplicate ID** O2521-08DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.20	U	0.20	U			CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **Level:** LOW **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Matrix: Water **Sample ID:** O2521-09 **Client ID:** GMW-7MSD

Percent Solids for Sample: NA **Duplicate ID** O2521-10 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	4.62		4.36		6		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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DUPLICATE SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **Level:** LOW **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Matrix: Water **Sample ID:** O2521-11 **Client ID:** GMW-7MSD

Percent Solids for Sample: NA **Duplicate ID** O2521-12 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	3.61		3.50		3		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB152420BS							
Aluminum	ug/L	1000	981		98	80 - 120	P
Antimony	ug/L	400	390		98	80 - 120	P
Arsenic	ug/L	400	400		100	80 - 120	P
Barium	ug/L	100	94.2		94	80 - 120	P
Beryllium	ug/L	100	96.2		96	80 - 120	P
Cadmium	ug/L	100	98.3		98	80 - 120	P
Calcium	ug/L	500	496	J	99	80 - 120	P
Chromium	ug/L	200	188		94	80 - 120	P
Cobalt	ug/L	100	97.5		98	80 - 120	P
Copper	ug/L	150	158		105	80 - 120	P
Iron	ug/L	1500	1440		96	80 - 120	P
Lead	ug/L	500	497		99	80 - 120	P
Magnesium	ug/L	1000	910	J	91	80 - 120	P
Manganese	ug/L	100	94.9		95	80 - 120	P
Nickel	ug/L	250	246		98	80 - 120	P
Potassium	ug/L	5000	4680		94	80 - 120	P
Selenium	ug/L	1000	1030		103	80 - 120	P
Silver	ug/L	37.5	36.4		97	80 - 120	P
Sodium	ug/L	1500	1330		89	80 - 120	P
Thallium	ug/L	1000	1010		101	80 - 120	P
Vanadium	ug/L	150	136		91	80 - 120	P
Zinc	ug/L	100	100		100	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB152487BS							
Mercury	ug/L	4.0	3.69		92	80 - 120	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB152538BS							
Mercury	ug/L	4.0	3.53		88	80 - 120	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

GMW-5L

Lab Name: Chemtech Consulting Group **Contract:** GEIC06

Lab Code: CHEM **Lb No.:** lb125255 **Lab Sample ID :** O2495-09L **SDG No.:** O2495

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	873		872		0		P
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	36.6	J	32.6	J	11		P
Beryllium	3.00	U	15.0	U			P
Cadmium	3.51		3.44	J	2		P
Calcium	67900		69800		3		P
Chromium	1.83	J	25.0	U	100.0		P
Cobalt	15.0	U	75.0	U			P
Copper	13.3		50.0	U	100.0		P
Iron	1930		1950		1		P
Lead	19.2		20.7	J	8		P
Magnesium	5990		6250		4		P
Manganese	189		196		3		P
Nickel	4.64	J	5.01	J	8		P
Potassium	8000		7910		1		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	5930		5810		2		P
Thallium	20.0	U	100	U			P
Vanadium	12.1	J	100	U	100.0		P
Zinc	24.4		23.8	J	2		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

GMW-7L

Lab Name: Chemtech Consulting Group **Contract:** GEIC06

Lab Code: CHEM **Lb No.:** lb125204 **Lab Sample ID :** O2521-07L **SDG No.:** O2495

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.083	J	1.00	U	100.0		CV

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

GMW-7L

Lab Name: Chemtech Consulting Group **Contract:** GEIC06

Lab Code: CHEM **Lb No.:** lb125251 **Lab Sample ID :** O2521-08L **SDG No.:** O2495

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.20	U	1.00	U			CV

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2495 **SAS No.:** O2495

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Method:**

Case No.: O2495 **SAS No.:** O2495

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB152420**						
O2495-01	PZ-01	SAM	WATER	05/02/2023	50.0	25.0	
O2495-02	PZ-01	SAM	WATER	05/02/2023	50.0	25.0	
O2495-03	PZ-02	SAM	WATER	05/02/2023	50.0	25.0	
O2495-04	PZ-02	SAM	WATER	05/02/2023	50.0	25.0	
O2495-05	GMW-11	SAM	WATER	05/02/2023	50.0	25.0	
O2495-06	GMW-11	SAM	WATER	05/02/2023	50.0	25.0	
O2495-07	GMW-X	SAM	WATER	05/02/2023	50.0	25.0	
O2495-08	GMW-X	SAM	WATER	05/02/2023	50.0	25.0	
O2495-09	GMW-5	SAM	WATER	05/02/2023	50.0	25.0	
O2495-09DUP	GMW-5DUP	DUP	WATER	05/02/2023	50.0	25.0	
O2495-09MS	GMW-5MS	MS	WATER	05/02/2023	50.0	25.0	
O2495-09MSD	GMW-5MSD	MSD	WATER	05/02/2023	50.0	25.0	
O2495-10	GMW-5	SAM	WATER	05/02/2023	50.0	25.0	
PB152420BL	PB152420BL	MB	WATER	05/02/2023	50.0	25.0	
PB152420BS	PB152420BS	LCS	WATER	05/02/2023	50.0	25.0	

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SAMPLE PREPARATION SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Method:**

Case No.: O2495 **SAS No.:** O2495

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB152487**						
O2495-01	PZ-01	SAM	WATER	04/28/2023	30.0	30.0	
O2495-03	PZ-02	SAM	WATER	04/28/2023	30.0	30.0	
O2495-05	GMW-11	SAM	WATER	04/28/2023	30.0	30.0	
O2495-07	GMW-X	SAM	WATER	04/28/2023	30.0	30.0	
O2495-09	GMW-5	SAM	WATER	04/28/2023	30.0	30.0	
O2521-07DUP	GMW-7DUP	DUP	WATER	04/28/2023	30.0	30.0	
O2521-09	GMW-7MS	MS	WATER	04/28/2023	30.0	30.0	
O2521-10	GMW-7MSD	MSD	WATER	04/28/2023	30.0	30.0	
PB152487BL	PB152487BL	MB	WATER	04/28/2023	30.0	30.0	
PB152487BS	PB152487BS	LCS	WATER	04/28/2023	30.0	30.0	

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SAMPLE PREPARATION SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Contract: GEIC06 **Lab Code:** CHEM **Method:**

Case No.: O2495 **SAS No.:** O2495

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB152538**						
O2495-02	PZ-01	SAM	WATER	05/02/2023	30.0	30.0	
O2495-04	PZ-02	SAM	WATER	05/02/2023	30.0	30.0	
O2495-06	GMW-11	SAM	WATER	05/02/2023	30.0	30.0	
O2495-08	GMW-X	SAM	WATER	05/02/2023	30.0	30.0	
O2495-10	GMW-5	SAM	WATER	05/02/2023	30.0	30.0	
O2521-08DUP	GMW-7DUP	DUP	WATER	05/02/2023	30.0	30.0	
O2521-11	GMW-7MS	MS	WATER	05/02/2023	30.0	30.0	
O2521-12	GMW-7MSD	MSD	WATER	05/02/2023	30.0	30.0	
PB152538BL	PB152538BL	MB	WATER	05/02/2023	30.0	30.0	
PB152538BS	PB152538BS	LCS	WATER	05/02/2023	30.0	30.0	

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ANALYSIS RUN LOG

Client: GEI Consultants, Inc., P.C. **Contract:** GEIC06

Lab code: CHEM **Case no.:** O2495 **Sas no.:** O2495 **Sdg no.:** O2495

Instrument id number: **Method:** **Run number:** LB125204

Start date: 04/28/2023 **End date:** 04/28/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1249	HG
S0.2	S0.2	1	1252	HG
S2.5	S2.5	1	1254	HG
S5	S5	1	1256	HG
S7.5	S7.5	1	1258	HG
S10	S10	1	1301	HG
ICV53	ICV53	1	1311	HG
ICB53	ICB53	1	1314	HG
CCV79	CCV79	1	1316	HG
CCB79	CCB79	1	1318	HG
CRA	CRA	1	1320	HG
PB152487BL	PB152487BL	1	1327	HG
PB152487BS	PB152487BS	1	1329	HG
O2495-01	PZ-01	1	1332	HG
O2495-03	PZ-02	1	1334	HG
O2495-05	GMW-11	1	1336	HG
O2495-07	GMW-X	1	1339	HG
O2495-09	GMW-5	1	1341	HG
CCV80	CCV80	1	1343	HG
CCB80	CCB80	1	1345	HG
O2521-07DUP	GMW-7DUP	1	1401	HG
O2521-09	GMW-7MS	1	1407	HG
O2521-10	GMW-7MSD	1	1409	HG
CCV81	CCV81	1	1414	HG
CCB81	CCB81	1	1416	HG
O2521-07L	GMW-7L	5	1420	HG
CCV82	CCV82	1	1430	HG
CCB82	CCB82	1	1433	HG

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metals
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ANALYSIS RUN LOG

Client: GEI Consultants, Inc., P.C. **Contract:** GEIC06

Lab code: CHEM **Case no.:** O2495 **Sas no.:** O2495 **Sdg no.:** O2495

Instrument id number: **Method:** **Run number:** LB125251

Start date: 05/02/2023 **End date:** 05/02/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1551	HG
S0.2	S0.2	1	1554	HG
S2.5	S2.5	1	1556	HG
S5	S5	1	1558	HG
S7.5	S7.5	1	1601	HG
S10	S10	1	1603	HG
ICV58	ICV58	1	1606	HG
ICB58	ICB58	1	1608	HG
CCV98	CCV98	1	1610	HG
CCB98	CCB98	1	1613	HG
CRA	CRA	1	1615	HG
PB152538BL	PB152538BL	1	1622	HG
PB152538BS	PB152538BS	1	1624	HG
O2495-02	PZ-01	1	1626	HG
O2495-04	PZ-02	1	1628	HG
O2495-06	GMW-11	1	1631	HG
O2495-08	GMW-X	1	1633	HG
O2495-10	GMW-5	1	1635	HG
CCV99	CCV99	1	1638	HG
CCB99	CCB99	1	1640	HG
O2521-08DUP	GMW-7DUP	1	1651	HG
O2521-11	GMW-7MS	1	1653	HG
O2521-12	GMW-7MSD	1	1656	HG
O2521-08L	GMW-7L	5	1700	HG
CCV01	CCV01	1	1705	HG
CCB01	CCB01	1	1707	HG

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metals
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ANALYSIS RUN LOG

Client: GEI Consultants, Inc., P.C. **Contract:** GEIC06

Lab code: CHEM **Case no.:** O2495 **Sas no.:** O2495 **Sdg no.:** O2495

Instrument id number: **Method:** **Run number:** LB125255

Start date: 05/02/2023 **End date:** 05/02/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1627	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1631	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1635	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1639	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1643	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1647	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1712	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1716	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1720	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1724	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1727	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1731	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV01	LLCCV01	1	1735	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1739	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB152420BL	PB152420BL	1	1759	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB152420BS	PB152420BS	1	1803	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-09	GMW-5	1	1807	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-09DUP	GMW-5DUP	1	1811	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1838	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1842	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-09L	GMW-5L	5	1847	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-09MS	GMW-5MS	1	1851	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-09MSD	GMW-5MSD	1	1855	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-09A	GMW-5A	1	1859	Fe,Na
CCV03	CCV03	1	1925	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1929	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	2011	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	2015	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	2057	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	2101	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	2145	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	2149	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	2219	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	2222	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: GEI Consultants, Inc., P.C. **Contract:** GEIC06

Lab code: CHEM **Case no.:** O2495 **Sas no.:** O2495 **Sdg no.:** O2495

Instrument id number: **Method:** **Run number:** LB125269

Start date: 05/03/2023 **End date:** 05/03/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1240	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1244	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1248	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1252	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1255	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1259	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1404	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1411	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1415	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1419	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1423	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1431	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV01	LLCCV01	1	1435	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1439	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1521	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1530	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-03	PZ-02	1	1534	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-04	PZ-02	1	1538	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-05	GMW-11	1	1542	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-06	GMW-11	1	1546	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-07	GMW-X	1	1550	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-08	GMW-X	1	1554	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-10	GMW-5	1	1558	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1639	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1643	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1730	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1734	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1816	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1820	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1903	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1907	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: GEI Consultants, Inc., P.C. **Contract:** GEIC06

Lab code: CHEM **Case no.:** O2495 **Sas no.:** O2495 **Sdg no.:** O2495

Instrument id number: **Method:** **Run number:** LB125287

Start date: 05/04/2023 **End date:** 05/04/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1318	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1322	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1326	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1330	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1333	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1337	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1341	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1347	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1351	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1355	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1358	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1410	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV01	LLCCV01	1	1414	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1418	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-01	PZ-01	1	1453	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2495-02	PZ-01	1	1457	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1505	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1509	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1553	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1557	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1652	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1655	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1743	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1747	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1813	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1817	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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LAB CHRONICLE

OrderID:	O2495	**OrderDate:**	4/25/2023 3:22:44 PM
Client:	GEI Consultants, Inc., P.C.	**Project:**	Ferry Point
Contact:	Stacey Ng	**Location:**	N11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O2495-01	**PZ-01**	**WATER**			**04/25/23 08:49**			**04/25/23**
			Alkalinity	SM2320 B			05/04/23 13:22	
			Ammonia	SM4500-NH3		05/01/23	05/02/23 12:25	
			Anions Group1	300.0			04/26/23 15:20	
			BOD5	SM5210 B			04/26/23 13:50	
			COD	SM5220 D			05/03/23 14:02	
			Cyanide	9012B		04/28/23	04/28/23 13:53	
			pH	9040C			04/26/23 11:15	
			Phenolics	420.1		04/27/23	04/27/23 11:46	
			TDS	SM2540 C			04/27/23 10:30	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		05/03/23	05/04/23 11:11	
			TOC	9060A			04/27/23 14:21	
O2495-01DL	**PZ-01DL**	**WATER**			**04/25/23 08:49**			**04/25/23**
			Ammonia	SM4500-NH3		05/01/23	05/02/23 13:54	
			Anions Group1	300.0			04/27/23 11:48	

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O2495-03	**PZ-02**	**WATER**			**04/25/23 09:53**			**04/25/23**
			Alkalinity	SM2320 B			05/04/23 13:29	
			Ammonia	SM4500-NH3		05/01/23	05/02/23 13:04	
			Anions Group1	300.0			04/26/23 15:52	
			BOD5	SM5210 B			04/26/23 13:50	
			COD	SM5220 D			05/03/23 14:02	
			Cyanide	9012B		04/28/23	04/28/23 13:53	
			pH	9040C			04/26/23 11:20	
			Phenolics	420.1		04/27/23	04/27/23 11:46	
			TDS	SM2540 C			04/27/23 10:30	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		05/03/23	05/04/23 11:11	
			TOC	9060A			04/27/23 19:20	
O2495-03DL	**PZ-02DL**	**WATER**			**04/25/23 09:53**			**04/25/23**
			Ammonia	SM4500-NH3		05/01/23	05/02/23 14:02	
			Anions Group1	300.0			04/27/23 12:20	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		05/03/23	05/04/23 12:20	
O2495-05	**GMW-11**	**WATER**			**04/25/23 11:52**			**04/25/23**

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Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

			Alkalinity	SM2320 B			05/04/23 13:33	
			Ammonia	SM4500-NH3		05/01/23	05/02/23 13:04	
			Anions Group1	300.0			04/26/23 16:25	
			BOD5	SM5210 B			04/26/23 13:50	
			COD	SM5220 D			05/03/23 14:03	
			Cyanide	9012B		04/28/23	04/28/23 13:53	
			pH	9040C			04/26/23 11:25	
			Phenolics	420.1		04/27/23	04/27/23 11:46	
			TDS	SM2540 C			04/27/23 10:30	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		05/03/23	05/04/23 11:11	
			TOC	9060A			04/27/23 19:49	
O2495-05DL	**GMW-11DL**	**WATER**			**04/25/23 11:52**			**04/25/23**
			Anions Group1	300.0			04/27/23 12:53	
O2495-07	**GMW-X**	**WATER**			**04/25/23 11:52**			**04/25/23**
			Alkalinity	SM2320 B			05/04/23 13:36	
			Ammonia	SM4500-NH3		05/01/23	05/02/23 13:04	
			Anions Group1	300.0			04/26/23 16:57	
			BOD5	SM5210 B			04/26/23 13:50	
			COD	SM5220 D			05/03/23 14:03	

LAB CHRONICLE

			Cyanide	9012B		04/28/23	04/28/23 13:53
			pH	9040C			04/26/23 11:30
			Phenolics	420.1		04/27/23	04/27/23 11:46
			TDS	SM2540 C			04/27/23 10:30
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		05/03/23	05/04/23 11:11
			TOC	9060A			04/27/23 20:18
O2495-07DL	**GMW-XDL**	**WATER**			**04/25/23 11:52**		**04/25/23**
			Anions Group1	300.0			04/27/23 13:26
O2495-09	**GMW-5**	**WATER**			**04/25/23 13:47**		**04/25/23**
			Alkalinity	SM2320 B			05/04/23 13:40
			Ammonia	SM4500-NH3		05/01/23	05/02/23 13:04
			Anions Group1	300.0			04/26/23 17:30
			BOD5	SM5210 B			04/26/23 13:50
			COD	SM5220 D			05/03/23 14:04
			Cyanide	9012B		04/28/23	04/28/23 13:53
			pH	9040C			04/26/23 11:32
			Phenolics	420.1		04/27/23	04/27/23 11:46
			TDS	SM2540 C			04/27/23 10:30

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LAB CHRONICLE

TKN	SM4500-N Org C-11 plus NH3 B plus G-11	05/03/23	05/04/23 11:11
TOC	9060A		04/27/23 20:47

SAMPLE DATA

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23 08:49
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01	SDG No.:	O2495
Lab Sample ID:	O2495-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	363		1	1.00	2.00	mg/L		05/04/23 13:22	SM 2320 B-11
Ammonia as N	2.60	OR	1	0.045	0.10	mg/L	05/01/23 13:30	05/02/23 12:25	SM 4500-NH3 B plus G-11
Bromide	2.00	U	1	0.27	2.00	mg/L		04/26/23 15:20	300.0
Chloride	39.8	OR	1	0.11	0.60	mg/L		04/26/23 15:20	300.0
Nitrite	0.60	U	1	0.089	0.60	mg/L		04/26/23 15:20	300.0
Nitrate	0.20	J	1	0.084	0.50	mg/L		04/26/23 15:20	300.0
Sulfate	34.9		1	0.55	3.00	mg/L		04/26/23 15:20	300.0
Nitrate+Nitrite	0.20	J	1	0.17	1.10	mg/L		04/26/23 15:20	300.0
BOD5	26.6		1	0.17	2.00	mg/L		04/26/23 13:50	SM 5210 B-16
COD	140		1	2.52	10.0	mg/L		05/03/23 14:02	SM 5220 D-11
Cyanide	0.027		1	0.0010	0.0050	mg/L	04/28/23 10:45	04/28/23 13:53	9012B
pH	6.66	H	1	0	0	pH		04/26/23 11:15	9040C
Phenolics	0.050	U	1	0.012	0.050	mg/L	04/27/23 09:45	04/27/23 11:46	420.1
TDS	508		1	1.00	10.0	mg/L		04/27/23 10:30	SM 2540 C-15
TKN	5.30		1	0.13	0.50	mg/L	05/03/23 10:30	05/04/23 11:11	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	9.90		1	0.37	1.00	mg/L		04/27/23 14:21	9060A

Comments: pH result reported at temperature 20.3 °C

U = Not Detected
LOQ = Limit of Quantitation
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H = Sample Analysis Out Of Hold Time

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B = Analyte Found in Associated Method Blank
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E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23 08:49
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-01DL	SDG No.:	O2495
Lab Sample ID:	O2495-01DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	2.60	D	2	0.090	0.20	mg/L	05/01/23 13:30	05/02/23 13:54	SM 4500-NH3 B plus G-11
Chloride	33.0	D	10	1.10	6.00	mg/L		04/27/23 11:48	300.0

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23 09:53
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02	SDG No.:	O2495
Lab Sample ID:	O2495-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	539		1	1.00	2.00	mg/L		05/04/23 13:29	SM 2320 B-11
Ammonia as N	24.8	OR	1	0.045	0.10	mg/L	05/01/23 13:30	05/02/23 13:04	SM 4500-NH3 B plus G-11
Bromide	1.20	J	1	0.27	2.00	mg/L		04/26/23 15:52	300.0
Chloride	207	OR	1	0.11	0.60	mg/L		04/26/23 15:52	300.0
Nitrite	0.60	U	1	0.089	0.60	mg/L		04/26/23 15:52	300.0
Nitrate	0.50	U	1	0.084	0.50	mg/L		04/26/23 15:52	300.0
Sulfate	9.40		1	0.55	3.00	mg/L		04/26/23 15:52	300.0
Nitrate+Nitrite	1.10	U	1	0.17	1.10	mg/L		04/26/23 15:52	300.0
BOD5	14.3		1	0.17	2.00	mg/L		04/26/23 13:50	SM 5210 B-16
COD	82.0		1	2.52	10.0	mg/L		05/03/23 14:02	SM 5220 D-11
Cyanide	0.14		1	0.0010	0.0050	mg/L	04/28/23 10:45	04/28/23 13:53	9012B
pH	6.74	H	1	0	0	pH		04/26/23 11:20	9040C
Phenolics	0.050	U	1	0.012	0.050	mg/L	04/27/23 09:45	04/27/23 11:46	420.1
TDS	736		1	1.00	10.0	mg/L		04/27/23 10:30	SM 2540 C-15
TKN	33.1	OR	1	0.13	0.50	mg/L	05/03/23 10:30	05/04/23 11:11	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	17.9		1	0.37	1.00	mg/L		04/27/23 19:20	9060A

Comments: pH result reported at temperature 20.1 °C

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23 09:53
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	PZ-02DL	SDG No.:	O2495
Lab Sample ID:	O2495-03DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	33.8	D	50	2.30	5.00	mg/L	05/01/23 13:30	05/02/23 14:02	SM 4500-NH3 B plus G-11
Chloride	138	D	50	5.50	30.0	mg/L		04/27/23 12:20	300.0
TKN	52.6	D	10	1.30	5.00	mg/L	05/03/23 10:30	05/04/23 12:20	SM4500-N Org C-11 plus NH3 B plus G-11

Comments:

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23 11:52
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11	SDG No.:	O2495
Lab Sample ID:	O2495-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	38.2		1	1.00	2.00	mg/L		05/04/23 13:33	SM 2320 B-11
Ammonia as N	0.088	J	1	0.045	0.10	mg/L	05/01/23 13:30	05/02/23 13:04	SM 4500-NH3 B plus G-11
Bromide	2.00	U	1	0.27	2.00	mg/L		04/26/23 16:25	300.0
Chloride	43.6	OR	1	0.11	0.60	mg/L		04/26/23 16:25	300.0
Nitrite	0.60	U	1	0.089	0.60	mg/L		04/26/23 16:25	300.0
Nitrate	0.25	J	1	0.084	0.50	mg/L		04/26/23 16:25	300.0
Sulfate	435	OR	1	0.55	3.00	mg/L		04/26/23 16:25	300.0
Nitrate+Nitrite	0.25	J	1	0.17	1.10	mg/L		04/26/23 16:25	300.0
BOD5	6.36		1	0.17	2.00	mg/L		04/26/23 13:50	SM 5210 B-16
COD	55.0		1	2.52	10.0	mg/L		05/03/23 14:03	SM 5220 D-11
Cyanide	0.042		1	0.0010	0.0050	mg/L	04/28/23 10:45	04/28/23 13:53	9012B
pH	9.43	H	1	0	0	pH		04/26/23 11:25	9040C
Phenolics	0.019	J	1	0.012	0.050	mg/L	04/27/23 09:45	04/27/23 11:46	420.1
TDS	528		1	1.00	10.0	mg/L		04/27/23 10:30	SM 2540 C-15
TKN	3.50		1	0.13	0.50	mg/L	05/03/23 10:30	05/04/23 11:11	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	11.0		1	0.37	1.00	mg/L		04/27/23 19:49	9060A

Comments: pH result reported at temperature 20.4 °C

U = Not Detected
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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23 11:52
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-11DL	SDG No.:	O2495
Lab Sample ID:	O2495-05DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	33.9	D	20	2.20	12.0	mg/L		04/27/23 12:53	300.0
Sulfate	289	D	20	11.0	60.0	mg/L		04/27/23 12:53	300.0

Comments:

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23 11:52
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-X	SDG No.:	O2495
Lab Sample ID:	O2495-07	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	36.2		1	1.00	2.00	mg/L		05/04/23 13:36	SM 2320 B-11
Ammonia as N	0.21		1	0.045	0.10	mg/L	05/01/23 13:30	05/02/23 13:04	SM 4500-NH3 B plus G-11
Bromide	0.75	J	1	0.27	2.00	mg/L		04/26/23 16:57	300.0
Chloride	43.6	OR	1	0.11	0.60	mg/L		04/26/23 16:57	300.0
Nitrite	0.60	U	1	0.089	0.60	mg/L		04/26/23 16:57	300.0
Nitrate	0.20	J	1	0.084	0.50	mg/L		04/26/23 16:57	300.0
Sulfate	437	OR	1	0.55	3.00	mg/L		04/26/23 16:57	300.0
Nitrate+Nitrite	0.20	J	1	0.17	1.10	mg/L		04/26/23 16:57	300.0
BOD5	3.54		1	0.17	2.00	mg/L		04/26/23 13:50	SM 5210 B-16
COD	64.0		1	2.52	10.0	mg/L		05/03/23 14:03	SM 5220 D-11
Cyanide	0.0047	J	1	0.0010	0.0050	mg/L	04/28/23 10:45	04/28/23 13:53	9012B
pH	9.49	H	1	0	0	pH		04/26/23 11:30	9040C
Phenolics	0.021	J	1	0.012	0.050	mg/L	04/27/23 09:45	04/27/23 11:46	420.1
TDS	538		1	1.00	10.0	mg/L		04/27/23 10:30	SM 2540 C-15
TKN	4.10		1	0.13	0.50	mg/L	05/03/23 10:30	05/04/23 11:11	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	11.4		1	0.37	1.00	mg/L		04/27/23 20:18	9060A

Comments: pH result reported at temperature 20.6 °C

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23 11:52
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-XDL	SDG No.:	O2495
Lab Sample ID:	O2495-07DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	33.9	D	20	2.20	12.0	mg/L		04/27/23 13:26	300.0
Sulfate	292	D	20	11.0	60.0	mg/L		04/27/23 13:26	300.0

Comments:

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/25/23 13:47
Project:	Ferry Point	Date Received:	04/25/23
Client Sample ID:	GMW-5	SDG No.:	O2495
Lab Sample ID:	O2495-09	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	193		1	1.00	2.00	mg/L		05/04/23 13:40	SM 2320 B-11
Ammonia as N	0.21		1	0.045	0.10	mg/L	05/01/23 13:30	05/02/23 13:04	SM 4500-NH3 B plus G-11
Bromide	2.00	U	1	0.27	2.00	mg/L		04/26/23 17:30	300.0
Chloride	5.70		1	0.11	0.60	mg/L		04/26/23 17:30	300.0
Nitrite	0.60	U	1	0.089	0.60	mg/L		04/26/23 17:30	300.0
Nitrate	0.50	U	1	0.084	0.50	mg/L		04/26/23 17:30	300.0
Sulfate	2.90	J	1	0.55	3.00	mg/L		04/26/23 17:30	300.0
Nitrate+Nitrite	1.10	U	1	0.17	1.10	mg/L		04/26/23 17:30	300.0
BOD5	6.46		1	0.17	2.00	mg/L		04/26/23 13:50	SM 5210 B-16
COD	126		1	2.52	10.0	mg/L		05/03/23 14:04	SM 5220 D-11
Cyanide	0.0027	J	1	0.0010	0.0050	mg/L	04/28/23 10:45	04/28/23 13:53	9012B
pH	7.87	H	1	0	0	pH		04/26/23 11:32	9040C
Phenolics	0.050	U	1	0.012	0.050	mg/L	04/27/23 09:45	04/27/23 11:46	420.1
TDS	332		1	1.00	10.0	mg/L		04/27/23 10:30	SM 2540 C-15
TKN	6.90		1	0.13	0.50	mg/L	05/03/23 10:30	05/04/23 11:11	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	8.90		1	0.37	1.00	mg/L		04/27/23 20:47	9060A

Comments: pH result reported at temperature 20.1 °C

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QC RESULT SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Initial and Continuing Calibration Verification

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**RunNo.:**	LB125158

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV**						
pH		pH	6.99	7	100	90-110	04/26/2023
Sample ID:	**CCV1**						
pH		pH	2.01	2.00	101	90-110	04/26/2023
Sample ID:	**CCV2**						
pH		pH	12.03	12.00	100	90-110	04/26/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125176

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
TOC		mg/L	10.3	10	103	90-110	04/04/2023
Sample ID:	CCV1						
TOC		mg/L	10	10	100	90-110	04/27/2023
Sample ID:	CCV2						
TOC		mg/L	10.5	10	105	90-110	04/27/2023
Sample ID:	CCV3						
TOC		mg/L	10.6	10	106	90-110	04/27/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125177

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	10.3	10	103	90-110	04/24/2023
Chloride	mg/L	3.1	3	103	90-110	04/24/2023
Fluoride	mg/L	1.9	2	95	90-110	04/24/2023
Nitrite	mg/L	3.1	3	103	90-110	04/24/2023
Nitrate	mg/L	2.6	2.5	104	90-110	04/24/2023
Sulfate	mg/L	15.4	15	103	90-110	04/24/2023
Orthophosphate as P	mg/L	4.7	5	94	90-110	04/24/2023
Sample ID: CCV1						
Bromide	mg/L	9.7	10	97	90-110	04/26/2023
Chloride	mg/L	2.9	3	97	90-110	04/26/2023
Fluoride	mg/L	1.9	2	95	90-110	04/26/2023
Nitrite	mg/L	2.9	3	97	90-110	04/26/2023
Nitrate	mg/L	2.4	2.5	96	90-110	04/26/2023
Sulfate	mg/L	14.7	15	98	90-110	04/26/2023
Orthophosphate as P	mg/L	5.5	5	110	90-110	04/26/2023
Sample ID: CCV2						
Bromide	mg/L	10.2	10	102	90-110	04/26/2023
Chloride	mg/L	3	3	100	90-110	04/26/2023
Fluoride	mg/L	2	2	100	90-110	04/26/2023
Nitrite	mg/L	3.1	3	103	90-110	04/26/2023
Nitrate	mg/L	2.5	2.5	100	90-110	04/26/2023
Sulfate	mg/L	15.3	15	102	90-110	04/26/2023
Orthophosphate as P	mg/L	6.1	5	122	90-110	04/26/2023
Sample ID: CCV3						
Bromide	mg/L	10.2	10	102	90-110	04/27/2023
Chloride	mg/L	3.1	3	103	90-110	04/27/2023
Fluoride	mg/L	2.1	2	105	90-110	04/27/2023
Nitrite	mg/L	3.1	3	103	90-110	04/27/2023
Nitrate	mg/L	2.5	2.5	100	90-110	04/27/2023
Sulfate	mg/L	15.4	15	103	90-110	04/27/2023
Orthophosphate as P	mg/L	6.3	5	126	90-110	04/27/2023
Sample ID: CCV4						
Bromide	mg/L	9.6	10	96	90-110	04/27/2023
Chloride	mg/L	2.9	3	97	90-110	04/27/2023
Fluoride	mg/L	2	2	100	90-110	04/27/2023
Nitrite	mg/L	2.9	3	97	90-110	04/27/2023
Nitrate	mg/L	2.4	2.5	96	90-110	04/27/2023
Sulfate	mg/L	14.4	15	96	90-110	04/27/2023
Orthophosphate as P	mg/L	5.7	5	114	90-110	04/27/2023
Sample ID: CCV5						
Bromide	mg/L	9.8	10	98	90-110	04/27/2023
Chloride	mg/L	2.9	3	97	90-110	04/27/2023
Fluoride	mg/L	1.9	2	95	90-110	04/27/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125177

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Nitrite	mg/L	2.9	3	97	90-110	04/27/2023
Nitrate	mg/L	2.4	2.5	96	90-110	04/27/2023
Sulfate	mg/L	14.6	15	97	90-110	04/27/2023
Orthophosphate as P	mg/L	5.7	5	114	90-110	04/27/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125184

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
Phenolics		mg/L	0.98	1	98	90-110	04/27/2023
Sample ID:	CCV1						
Phenolics		mg/L	0.94	1	94	90-110	04/27/2023
Sample ID:	CCV2						
Phenolics		mg/L	0.93	1	93	90-110	04/27/2023
Sample ID:	CCV3						
Phenolics		mg/L	0.94	1	94	90-110	04/27/2023

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Initial and Continuing Calibration Verification

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**RunNo.:**	LB125211

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
Cyanide		mg/L	0.096	0.099	97	90-110	04/28/2023
Sample ID:	**CCV1**						
Cyanide		mg/L	0.25	0.25	100	90-110	04/28/2023
Sample ID:	**CCV2**						
Cyanide		mg/L	0.24	0.25	96	90-110	04/28/2023
Sample ID:	**CCV3**						
Cyanide		mg/L	0.25	0.25	100	90-110	04/28/2023
Sample ID:	**CCV4**						
Cyanide		mg/L	0.24	0.25	96	90-110	04/28/2023
Sample ID:	**CCV5**						
Cyanide		mg/L	0.26	0.25	104	90-110	04/28/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125248

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
Ammonia as N		mg/L	0.91	1	91	90-110	05/02/2023
Sample ID:	CCV1						
Ammonia as N		mg/L	0.95	1	95	90-110	05/02/2023
Sample ID:	CCV2						
Ammonia as N		mg/L	0.94	1	94	90-110	05/02/2023
Sample ID:	CCV3						
Ammonia as N		mg/L	0.93	1	93	90-110	05/02/2023
Sample ID:	CCV4						
Ammonia as N		mg/L	0.97	1	97	90-110	05/02/2023
Sample ID:	CCV5						
Ammonia as N		mg/L	1	1	100	90-110	05/02/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125267

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
COD		mg/L	49.991	50	100	95-105	03/10/2023
Sample ID:	CCV1						
COD		mg/L	48.990	50	98	95-105	05/03/2023
Sample ID:	CCV2						
COD		mg/L	48.990	50	98	95-105	05/03/2023
Sample ID:	CCV3						
COD		mg/L	50.992	50	102	95-105	05/03/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125282

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
TKN		mg/L	4.9	5	98	90-110	05/04/2023
Sample ID:	CCV1						
TKN		mg/L	4.9	5	98	90-110	05/04/2023
Sample ID:	CCV2						
TKN		mg/L	4.8	5	96	90-110	05/04/2023
Sample ID:	CCV3						
TKN		mg/L	5.1	5	102	90-110	05/04/2023
Sample ID:	CCV4						
TKN		mg/L	5.1	5	102	90-110	05/04/2023

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Initial and Continuing Calibration Blank Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**RunNo.:**	LB125176

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	**ICB1**							
TOC		mg/L	0.47	0.5000	J	0.37	1	04/04/2023
Sample ID:	**CCB1**							
TOC		mg/L	0.39	0.5000	J	0.37	1	04/27/2023
Sample ID:	**CCB2**							
TOC		mg/L	< 0.5000	0.5000	U	0.37	1	04/27/2023
Sample ID:	**CCB3**							
TOC		mg/L	< 0.5000	0.5000	U	0.37	1	04/27/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125177

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/24/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/24/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/24/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/24/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/24/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/24/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/24/2023
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/26/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/26/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/26/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/26/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/26/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/26/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/26/2023
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/26/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/26/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/26/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/26/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/26/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/26/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/26/2023
Sample ID: CCB3							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/27/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/27/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/27/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/27/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/27/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/27/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/27/2023
Sample ID: CCB4							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/27/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/27/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/27/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/27/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/27/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/27/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/27/2023
Sample ID: CCB5							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/27/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/27/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/27/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/27/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/27/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/27/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/27/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125184

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Phenolics		mg/L	< 0.0250	0.0250	U	0.012	0.05	04/27/2023
Sample ID:	CCB1							
Phenolics		mg/L	< 0.0250	0.0250	U	0.012	0.05	04/27/2023
Sample ID:	CCB2							
Phenolics		mg/L	< 0.0250	0.0250	U	0.012	0.05	04/27/2023
Sample ID:	CCB3							
Phenolics		mg/L	< 0.0250	0.0250	U	0.012	0.05	04/27/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125211

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	04/28/2023
Sample ID:	CCB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	04/28/2023
Sample ID:	CCB2							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	04/28/2023
Sample ID:	CCB3							
Cyanide		mg/L	0.0011	0.0025	J	0.0010	0.005	04/28/2023
Sample ID:	CCB4							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	04/28/2023
Sample ID:	CCB5							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	04/28/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125248

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023
Sample ID: CCB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023
Sample ID: CCB2							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023
Sample ID: CCB3							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023
Sample ID: CCB4							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023
Sample ID: CCB5							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125267

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
COD	mg/L	< 5.0000	5.0000	U	2.52	10	03/10/2023
Sample ID: CCB1							
COD	mg/L	< 5.0000	5.0000	U	2.52	10	05/03/2023
Sample ID: CCB2							
COD	mg/L	< 5.0000	5.0000	U	2.52	10	05/03/2023
Sample ID: CCB3							
COD	mg/L	< 5.0000	5.0000	U	2.52	10	05/03/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **RunNo.:** LB125282

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
TKN	mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023
Sample ID: CCB1							
TKN	mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023
Sample ID: CCB2							
TKN	mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023
Sample ID: CCB3							
TKN	mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023
Sample ID: CCB4							
TKN	mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023

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Preparation Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB125161BL							
BOD5	mg/L	< 0.2000	0.2000	U	0.17	2.0	04/26/2023
Sample ID: LB125176BLW							
TOC	mg/L	< 0.5000	0.5000	U	0.37	1	04/27/2023
Sample ID: LB125177BLW							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/26/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/26/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/26/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/26/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/26/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/26/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.3	1	04/26/2023
Sample ID: LB125177BLW2							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/27/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/27/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/27/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/27/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/27/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/27/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.3	1	04/27/2023
Sample ID: LB125179BL							
TDS	mg/L	< 5.0000	5.0000	U	1.0	10	04/27/2023
Sample ID: LB125267BL							
COD	mg/L	< 5.0000	5.0000	U	2.52	10.0	05/03/2023
Sample ID: LB125289BLW							
Alkalinity	mg/L	< 1.0000	1.0000	U	1	2	05/04/2023
Sample ID: PB152437BL							
TKN	mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023
Sample ID: PB152445BL							
Phenolics	mg/L	< 0.0250	0.0250	U	0.012	0.05	04/27/2023
Sample ID: PB152488BL							
Cyanide	mg/L	< 0.0025	0.0025	U	0.001	0.005	04/28/2023
Sample ID: PB152517BL							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2495-01
Client ID: PZ-01MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/L	75-125	19.4		9.90		10	1	95		04/27/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2495-01
Client ID: PZ-01MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/L	75-125	21.8	OR	9.90		10	1	119		04/27/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2495-09
Client ID: GMW-5MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.8		0.27	U	10	1	108		04/26/2023
Chloride	mg/L	80-120	8.90	OR	5.70		3	1	107		04/26/2023
Fluoride	mg/L	80-120	3.50		0.41		2	1	155	*	04/26/2023
Nitrite	mg/L	80-120	3.10		0.089	U	3	1	103		04/26/2023
Nitrate	mg/L	80-120	2.70		0.084	U	2.5	1	108		04/26/2023
Sulfate	mg/L	80-120	19.3		2.90	J	15	1	109		04/26/2023
Orthophosphate as P	mg/L	80-120	8.40		0.30	U	5	1	168	*	04/26/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2495-09
Client ID: GMW-5MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.4		0.27	U	10	1	104		04/26/2023
Chloride	mg/L	80-120	8.80	OR	5.70		3	1	103		04/26/2023
Fluoride	mg/L	80-120	3.50		0.41		2	1	155	*	04/26/2023
Nitrite	mg/L	80-120	3.00		0.089	U	3	1	100		04/26/2023
Nitrate	mg/L	80-120	2.60		0.084	U	2.5	1	104		04/26/2023
Sulfate	mg/L	80-120	18.5		2.90	J	15	1	104		04/26/2023
Orthophosphate as P	mg/L	80-120	8.70		0.30	U	5	1	174	*	04/26/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/L	75-125	2.20	OR	1.50		1	1	70	*	05/02/2023
COD	mg/L	75-125	61.0		15.0		50.0	1	92		05/03/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/L	75-125	0.057		0.010		0.04	1	117		04/28/2023
TKN	mg/L	75-125	9.50		4.70		5	1	96		05/04/2023
Phenolics	mg/L	75-125	0.44		0.012	U	1	1	44	*	04/27/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/L	75-125	2.20	OR	1.50		1	1	70	*	05/02/2023
COD	mg/L	75-125	62.0		15.0		50.0	1	94		05/03/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/L	75-125	0.057		0.010		0.04	1	117		04/28/2023
TKN	mg/L	75-125	9.00		4.70		5	1	86		05/04/2023
Phenolics	mg/L	75-125	0.41		0.012	U	1	1	41	*	04/27/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2495-01
Client ID: PZ-01DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
BOD5	mg/L	+/-20	26.6		26.6		1	0		04/26/2023
Alkalinity	mg/L	+/-20	363		359		1	1		05/04/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2495-01
Client ID: PZ-01MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TOC	mg/L	+/-20	19.4		21.8	OR	1	12		04/27/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2495-09
Client ID: GMW-5DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TDS	mg/L	+/-5	332		333		1	0.3		04/27/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2495-09
Client ID: GMW-5MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Fluoride	mg/L	+/-20	3.50		3.50		1	0		04/26/2023
Chloride	mg/L	+/-20	8.90	OR	8.80	OR	1	1		04/26/2023
Nitrite	mg/L	+/-20	3.10		3.00		1	3		04/26/2023
Bromide	mg/L	+/-20	10.8		10.4		1	4		04/26/2023
Nitrate	mg/L	+/-20	2.70		2.60		1	4		04/26/2023
Orthophosphate as P	mg/L	+/-20	8.40		8.70		1	4		04/26/2023
Sulfate	mg/L	+/-20	19.3		18.5		1	4		04/26/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2496-01
Client ID: TOTE-4-25-2023DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
pH	pH	+/-20	7.37		7.38		1	0.14		04/26/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Phenolics	mg/L	+/-20	0.012	U	0.012	U	1	0		04/27/2023
Cyanide	mg/L	+/-20	0.010		0.0097		1	3		04/28/2023
Ammonia as N	mg/L	+/-20	1.50		1.50		1	0		05/02/2023
COD	mg/L	+/-20	15.0		14.0		1	6.9		05/03/2023
TKN	mg/L	+/-20	4.70		4.90		1	4		05/04/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ammonia as N	mg/L	+/-20	2.20	OR	2.20	OR	1	0		05/02/2023
COD	mg/L	+/-20	61.0		62.0		1	1.63		05/03/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2495
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Phenolics	mg/L	+/-20	0.44		0.41		1	7		04/27/2023
Cyanide	mg/L	+/-20	0.057		0.057		1	0		04/28/2023
TKN	mg/L	+/-20	9.50		9.00		1	5		05/04/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**Run No.:**	LB125161

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125161BS								
BOD5	mg/L	198	196		99	1	84.6-115.4	04/26/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**Run No.:**	LB125176

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125176BSW								
TOC	mg/L	10	10.3		103	1	90-110	04/27/2023

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Laboratory Control Sample Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **Run No.:** LB125177

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125177BSW								
Bromide	mg/L	10	9.80		98	1	90-110	04/26/2023
Chloride	mg/L	3	2.90		97	1	90-110	04/26/2023
Fluoride	mg/L	2	1.90		95	1	90-110	04/26/2023
Nitrite	mg/L	3	2.90		97	1	90-110	04/26/2023
Nitrate	mg/L	2.5	2.40		96	1	90-110	04/26/2023
Sulfate	mg/L	15	14.7		98	1	90-110	04/26/2023
Orthophosphate as P	mg/L	5	5.10		102	1	90-110	04/26/2023

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Laboratory Control Sample Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2495

Project: Ferry Point **Run No.:** LB125177

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125177BSW2								
Bromide	mg/L	10	9.70		97	1	90-110	04/27/2023
Chloride	mg/L	3	2.90		97	1	90-110	04/27/2023
Fluoride	mg/L	2	1.90		95	1	90-110	04/27/2023
Nitrite	mg/L	3	2.90		97	1	90-110	04/27/2023
Nitrate	mg/L	2.5	2.40		96	1	90-110	04/27/2023
Sulfate	mg/L	15	14.5		97	1	90-110	04/27/2023
Orthophosphate as P	mg/L	5	5.10		102	1	90-110	04/27/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**Run No.:**	LB125179

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125179BS								
TDS	mg/L	100	94.0		94	1	90-110	04/27/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**Run No.:**	LB125267

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125267BS								
COD	mg/L	50	50.0		100	1	90-110	05/03/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**Run No.:**	LB125289

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125289BSW								
Alkalinity	mg/L	50	56.0		112	1	80-120	05/04/2032

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**Run No.:**	LB125282

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB152437BS								
TKN	mg/L	5	5.10		102	1	90-110	05/04/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**Run No.:**	LB125184

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB152445BS								
Phenolics	mg/L	1	0.97		97	1	80-120	04/27/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**Run No.:**	LB125211

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB152488BS								
Cyanide	mg/L	0.1	0.097		97	1	85-115	04/28/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2495
Project:	Ferry Point	**Run No.:**	LB125248

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB152517BS								
Ammonia as N	**mg/L**	**1**	**0.93**		**93**	**1**	**90-110**	**05/02/2023**

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. 02495
COC Number 2038360

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9.1

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: GEI Consultants
ADDRESS: 530 7th Ave. Suite 2007
CITY NY STATE: NY ZIP: 10018
ATTENTION: Stacey Ng
PHONE: (347) 514-3861 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Ferry Point
PROJECT NO.: 2204594 LOCATION: Bronx, NY
PROJECT MANAGER: Stacey Ng
e-mail: sng@geiconsultants.com
PHONE: Same FAX:

CLIENT BILLING INFORMATION

BILL TO: SAME AS CLIENT PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ EDD FORMAT
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☒ NYS ASP A ☐ NYS ASP B
- ☐ Other

ANALYSIS

1 Phenolics, 2 TCL VOC, 3 Color, 4 BOD5, 5 Alkalinity, 6 TDS, 7 TCL SVOC, 8 Mercury, 9 TAL Metals, Hardness

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
1.	PZ-01	W			4/25/23	8:49	19	X	X	X	X	X	X	X	X	X	
2.	PZ-02	↓			↓	9:53	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
3.	GMW-11	↓			↓	11:52	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
4.	GMW-X	↓			↓	11:52	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
5.	GMW-5	↓			↓	13:47	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
6.	Trip Blank	↓															
7.																	
8.																	
9.																	
10.																	

PRESERVATIVES — ← Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	4/25/23 14:55	1. [signature] 1455 4-25-23
2.		2.
3. [signature]	4-25-23 1720	3. —

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.0 °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. 02495
COC Number 2038361

9
9.1

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: GEI Consultants
ADDRESS: 530 7th Ave, Suite 2007
CITY NY STATE: NY ZIP: 10018
ATTENTION: Stacey Ng
PHONE: (347) 514-3861 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Ferry Point
PROJECT NO.: 2204594 LOCATION: Bronx, NY
PROJECT MANAGER: Stacey Ng
e-mail: sng@geiconsultants.com
PHONE: SAME FAX:

CLIENT BILLING INFORMATION

BILL TO: SAME AS CLIENT PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☒ NYS ASP A ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT _____

ANALYSIS

1 Cyanide, 2 COD, 3 Ammonia, 4 TKN, 5 Dissolved TAL metals, 6 Chloride, Bromide, Nitrate, Nitrite, Sulfate, 7 pH, 8 TOC, 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	PZ-01	W			4/25/23	8:49	19	X	X	X	X	X	X	X	X		
2.	PZ-02	↓			↓	9:53	↓	↓	↓	↓	↓	↓	↓	↓	↓		
3.	GMW-11					11:52											
4.	GMW-X					11:52											
5.	GMW-5					13:47			↓	↓	↓	↓	↓	↓	↓		
6.	Trip Blank							↓									
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	4/25/23 14:55	1. [signature] 1455 4-25-23
2.		2.
3. [signature]	1720 4-25-23	3. —

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.0 °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2022022
Maryland	296
New Hampshire	255422
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488-22-15

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : O2495 GEIC06
Client Name : GEI Consultants, Inc., P.C.
Client Contact : Stacey Ng
Invoice Name : GEI Consultants, Inc., P.C.
Invoice Contact : Stacey Ng

Order Date : 4/25/2023 3:22:44 PM
Project Name : Ferry Point
Receive DateTime : 4/25/2023 ~~12:00:00 AM~~ 5:24pm SB 4-26
Purchase Order :

Project Mgr :
Report Type : ~~Level 2~~ NYS ASP A SB 5/1/23
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
O2495-01	PZ-01	Water	04/25/2023	08:49					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
O2495-03	PZ-02	Water	04/25/2023	09:53					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
O2495-05	GMW-11	Water	04/25/2023	11:52					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
O2495-07	GMW-X	Water	04/25/2023	11:52					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
O2495-09	GMW-5	Water	04/25/2023	13:47					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
O2495-11	TRIP-BLANK	Water	04/25/2023	00:00					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days

Relinguished By :
Date / Time : 4/26/23 0900

Received By :
Date / Time : 4/26/23 09:00 Rep #4
Storage Area : VOA Refridgerator Room

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

GEI Consultants, Inc., P.C.
Project Name: Ferry Point
Project # N/A
Chemtech Project # O2495
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
11 Water samples were received on 04/25/2023.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, COD, Cyanide, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Hardness, Total, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics, SVOC-TCL BNA -20, TDS, TKN, TOC and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID VX035415.D met the requirements except for 2-Butanone is failing marginally Low therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

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Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature S. M. Jodhani

APPROVED

By Sohil Jodhani, QA/QC Director at 9:05 am, Jul 12, 2023

CHEMTECH

DATA PACKAGE

VOLATILE ORGANICS
GENERAL CHEMISTRY
METALS
SEMI-VOLATILE ORGANICS

PROJECT NAME : FERRY POINT

GEI CONSULTANTS, INC., P.C.

530 7th Ave, Suite 2007

New York, NY - 10018

Phone No: 212-845-9965

ORDER ID : O2521

ATTENTION : Stacey Ng

Laboratory Certification ID # 20012

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Cover Page

Order ID : O2521

Project ID : Ferry Point

Client : GEI Consultants, Inc., P.C.

Lab Sample Number	Client Sample Number
O2521-01	GMW-1
O2521-02	GMW-1
O2521-03	PZ-15
O2521-04	PZ-15
O2521-05	GMW-10
O2521-06	GMW-10
O2521-07	GMW-7
O2521-08	GMW-7
O2521-09	GMW-7MS
O2521-10	GMW-7MSD
O2521-11	GMW-7MS
O2521-12	GMW-7MSD
O2521-13	TB-2
O2521-14	FB
O2521-15	FB

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:23 am, May 12, 2023

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CHEMTECH
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CASE NARRATIVE

GEI Consultants, Inc., P.C.
Project Name: Ferry Point
Project # N/A
Chemtech Project # O2521
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
15 Water samples were received on 04/26/2023.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, COD, Cyanide, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Hardness, Total, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics, SVOC-TCL BNA -20, TDS, TKN, TOC and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOC-TCLVOA-10 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {O2521-09MS} with File ID: VX035489.D recoveries met the requirements for all compounds except for 1,2,3-Trichlorobenzene[73%] due to matrix interference.
The MSD {O2521-10MSD} with File ID: VX035490.D recoveries met the acceptable requirements except for 1,1,2-Trichlorotrifluoroethane[69%], Carbon Tetrachloride[83%], Cyclohexane[70%] and Methylcyclohexane[56%] due to matrix interference.
The RPD met criteria .

The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID VX035466.D met the requirements except for Bromomethane is failing marginally Low therefore no corrective action taken.
The Tuning criteria met requirements.

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E. Additional Comments:

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 10:23 am, May 12, 2023

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CASE NARRATIVE

GEI Consultants, Inc., P.C.
Project Name: Ferry Point
Project # N/A
Chemtech Project # O2521
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
15 Water samples were received on 04/26/2023.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, COD, Cyanide, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Hardness, Total, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics, SVOC-TCL BNA -20, TDS, TKN, TOC and VOC-TCLVOA-10. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {O2521-09MS} with File ID: BF133152.D recoveries met the requirements for all compounds except for 1,2,4,5-Tetrachlorobenzene[73%], 1,4-Dioxane[32%] and 2,3,4,6-Tetrachlorophenol[79%] due to matrix interference.
The MSD {O2521-10MSD} with File ID: BF133153.D recoveries met the acceptable requirements except for 1,2,4,5-Tetrachlorobenzene[72%], 1,4-Dioxane[31%] and 2,3,4,6-Tetrachlorophenol[79%] due to matrix interference.
The RPD met criteria .

The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 20% in the Initial Calibration method (Method 8270-BF042123.M) for Benzaldehyde,this compound is passing on Quadratic regression.

The Continuous Calibration met the requirements .

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The Tuning criteria met requirements.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya QA/QC Supervisor at 10:24 am, May 12, 2023

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CASE NARRATIVE

GEI Consultants, Inc., P.C.
Project Name: Ferry Point
Project # N/A
Chemtech Project # O2521
Test Name: Dissolved ICP-TAL Metals,Metals ICP-TAL,Dissolved Mercury,Mercury

A. Number of Samples and Date of Receipt:
15 Water samples were received on 04/26/2023.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, COD, Cyanide, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Hardness, Total, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics, SVOC-TCL BNA -20, TDS, TKN, TOC and VOC-TCLVOA-10. This data package contains results for Dissolved ICP-TAL Metals,Metals ICP-TAL,Dissolved Mercury,Mercury.

C. Analytical Techniques:
The analysis of Dissolved ICP-TAL Metals,Metals ICP-TAL was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of Dissolved Mercury,Mercury was based on method 7470A.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.

The Matrix Spike (GMW-7MS-for Total sample) analysis met criteria for all samples except for Aluminum, Barium, Iron, Manganese, Zinc due to chemical interference during digestion process.

The Matrix Spike (GMW-7MS-for Dissolved sample) analysis met criteria for all samples except for Barium, Manganese, Zinc due to chemical interference during digestion process.

The Matrix Spike Duplicate(GMW-7MSD-for Total sample) analysis met criteria for all samples except for Aluminum, Barium, Iron, Manganese, Zinc due to chemical interference during digestion process.

The Matrix Spike Duplicate(GMW-7MSD-for Dissolved sample) analysis met criteria for all samples except for Barium, Manganese, Zinc due to chemical interference during digestion process.

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The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:
Samples O2521-01, O2521-03, O2521-05, O2521-07 and O2521-14 were analyzed as Total Metals while Samples O2521-02, O2521-04, O2521-06, O2521-08 and O2521-15 were analyzed as Dissolved Metals.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya QA/QC Supervisor at 10:24 am, May 12, 2023

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CASE NARRATIVE

GEI Consultants, Inc., P.C.
Project Name: Ferry Point
Project # N/A
Chemtech Project # O2521
Test Name:
pH,Alkalinity,Cyanide,TOC,Phenolics,TKN,Ammonia,TDS,COD,BOD5,Anions Group1

A. Number of Samples and Date of Receipt:
15 Water samples were received on 04/26/2023.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, BOD5, COD, Cyanide, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Hardness, Total, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics, SVOC-TCL BNA -20, TDS, TKN, TOC and VOC-TCLVOA-10. This data package contains results for pH, Alkalinity, Cyanide, TOC, Phenolics, TKN, Ammonia, TDS, COD, BOD5, Anions Group1.

C. Analytical Techniques:
The analysis of Anions Group1 was based on method 300.0, The analysis of Phenolics was based on method 420.1, The analysis of Cyanide was based on method 9012B, The analysis of pH was based on method 9040C, The analysis of TOC was based on method 9060A, The analysis of Alkalinity was based on method SM2320 B, The analysis of TDS was based on method SM2540 C, The analysis of TKN was based on method SM4500 N Org B or C, The analysis of Ammonia was based on method SM4500-NH3, The analysis of BOD5 was based on method SM5210 B and The analysis of COD was based on method SM5220 D.

D. QA/ QC Samples:
The Holding Times were met for all samples except for FB of pH, for GMW-1 of pH.for GMW-10 of pH.for GMW-7 of pH.for PZ-15 of pH as samples were receive out of hold.
Sample GMW-1 was diluted due to high concentrations for Ammonia as N, TKN, TOC, Chloride & Sample PZ-15 was diluted due to high concentrations for Ammonia as N, TKN, TOC, Chloride & Sample GMW-10 was diluted due to high concentrations for TOC, Chloride, Sulfate & Sample GMW-7 was diluted due to high concentrations for Chloride, Sulfate.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (MW-4MS) analysis met criteria for all samples except for Chloride due to matrix interferences. The Matrix Spike (GMW-7MS) analysis met criteria for all samples except for Nitrite, Ammonia as N and Phenolics due to matrix interferences.
The Matrix Spike Duplicate (MW-4MSD) analysis met criteria for all samples except for Chloride due to matrix interferences. The Matrix Spike Duplicate (GMW-7MSD)

analysis met criteria for all samples except for Nitrite, Ammonia as N and Phenolics due to matrix interferences.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:
Sample O2521-01 and O2521-01 were analyzed Straight 10X Dilution for COD because the original samples were reading over range, only 10X has been reported.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya QA/QC Supervisor at 10:25 am, May 12, 2023

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).

U Indicates the analyte was analyzed for, but not detected.

ND Indicates the analyte was analyzed for, but not detected

E Indicates the reported value is estimated because of the presence of interference

M Indicates Duplicate injection precision not met.

N Indicates the spiked sample recovery is not within control limits.

S Indicates the reported value was determined by the Method of Standard Addition (MSA).

***** Indicates that the duplicate analysis is not within control limits.

+ Indicates the correlation coefficient for the MSA is less than 0.995.

D Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

M Method qualifiers
"P" for ICP instrument
"PM" for ICP when Microwave Digestion is used
"CV" for Manual Cold Vapor AA
"AV" for automated Cold Vapor AA
"CA" for MIDI-Distillation Spectrophotometric
"AS" for Semi –Automated Spectrophotometric
"C" for Manual Spectrophotometric
"T" for Titrimetric
"NR" for analyte not required to be analyzed

OR Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.

Q Indicates the LCS did not meet the control limits requirements

H Sample Analysis Out Of Hold Time

QA Control # A3040961

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

QA Control # A3040960

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: O2521

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: SOHIL JODHANI **Date:** 05/12/2023

2nd Level QA Review Signature: N. N. Pandya **Date:**

APPROVED
By Nimisha Pandya QA/QC Supervisor at 10:25 am, May 12, 2023

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey - 07092
Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	O2521	**OrderDate:**	4/27/2023 8:52:00 AM
Client:	GEI Consultants, Inc., P.C.	**Project:**	Ferry Point
Contact:	Stacey Ng	**Location:**	M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O2521-01	**GMW-1**	**Water**			**04/26/23**			**04/26/23**
			VOC-TCLVOA-10	8260-Low			05/02/23	
O2521-03	**PZ-15**	**Water**			**04/26/23**			**04/26/23**
			VOC-TCLVOA-10	8260-Low			05/02/23	
O2521-05	**GMW-10**	**Water**			**04/26/23**			**04/26/23**
			VOC-TCLVOA-10	8260-Low			05/02/23	
O2521-07	**GMW-7**	**Water**			**04/26/23**			**04/26/23**
			VOC-TCLVOA-10	8260-Low			05/02/23	
O2521-13	**TB-2**	**Water**			**04/26/23**			**04/26/23**
			VOC-TCLVOA-10	8260-Low			05/02/23	
O2521-14	**FB**	**Water**			**04/26/23**			**04/26/23**
			VOC-TCLVOA-10	8260-Low			05/02/23	

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Hit Summary Sheet
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**GMW-1**								
O2521-01	GMW-1	Water	Acetone		280		1.20	5.00	ug/L
O2521-01	GMW-1	Water	2-Butanone		1.90	J	1.20	5.00	ug/L
O2521-01	GMW-1	Water	Chlorobenzene		3.30		0.12	1.00	ug/L
O2521-01	GMW-1	Water	1,4-Dichlorobenzene		0.88	J	0.24	1.00	ug/L
			Total Voc :		286				
O2521-01	GMW-1	Water	Sulfur dioxide	*	6.90	J	0	0	ug/L
			Total Tics :		6.90				
			Total Concentration:		293				
Client ID:	**PZ-15**								
O2521-03	PZ-15	Water	Acetone		10.9		1.20	5.00	ug/L
O2521-03	PZ-15	Water	Carbon Disulfide		0.35	J	0.27	1.00	ug/L
O2521-03	PZ-15	Water	Chlorobenzene		12.5		0.12	1.00	ug/L
O2521-03	PZ-15	Water	Isopropylbenzene		0.44	J	0.13	1.00	ug/L
O2521-03	PZ-15	Water	1,4-Dichlorobenzene		1.10		0.24	1.00	ug/L
			Total Voc :		25.3				
O2521-03	PZ-15	Water	unknown13.122	*	6.30	J	0	0	ug/L
O2521-03	PZ-15	Water	Benzene, 1-ethenyl-2-methyl-	*	5.30	J	0	0	ug/L
O2521-03	PZ-15	Water	Sulfur dioxide	*	5.80	J	0	0	ug/L
O2521-03	PZ-15	Water	Tetrahydrofuran	*	1.00	J	0.85	5.00	ug/L
O2521-03	PZ-15	Water	tert-Butylbenzene	*	0.32	J	0.16	1.00	ug/L
O2521-03	PZ-15	Water	sec-Butylbenzene	*	0.47	J	0.16	1.00	ug/L
			Total Tics :		19.2				
			Total Concentration:		44.5				
Client ID:	**GMW-10**								
O2521-05	GMW-10	Water	Acetone		6.40		1.20	5.00	ug/L
O2521-05	GMW-10	Water	Chlorobenzene		0.37	J	0.12	1.00	ug/L
			Total Voc :		6.77				
O2521-05	GMW-10	Water	Sulfur dioxide	*	5.90	J	0	0	ug/L
			Total Tics :		5.90				
			Total Concentration:		12.7				
Client ID:	**GMW-7**								
O2521-07	GMW-7	Water	Acetone		2.80	J	1.20	5.00	ug/L
			Total Voc :		2.80				
O2521-07	GMW-7	Water	Aminomethanesulfonic acid	*	5.30	J	0	0	ug/L
			Total Tics :		5.30				
			Total Concentration:		8.10				
Client ID:	**TB-2**								
O2521-13	TB-2	Water	Sulfur dioxide	*	14.2	J	0	0	ug/L
			Total Tics :		14.2				

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Hit Summary Sheet
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
			Total Concentration:		14.2				
Client ID:	**FB**								
O2521-14	FB	Water	Acetone		2.40	J	1.20	5.00	ug/L
O2521-14	FB	Water	Methylene Chloride		0.68	J	0.50	1.00	ug/L
			Total Voc :		3.08				
O2521-14	FB	Water	Sulfur dioxide	*	16.6	J	0	0	ug/L
			Total Tics :		16.6				
			Total Concentration:		19.7				

SAMPLE DATA

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1	SDG No.:	O2521
Lab Sample ID:	O2521-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035479.D	1		05/02/23 15:12	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	280		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.90	J	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1	SDG No.:	O2521
Lab Sample ID:	O2521-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035479.D	1		05/02/23 15:12	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	3.30		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.88	J	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.6		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.4		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		64 - 133	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	220000	5.55			
540-36-3	1,4-Difluorobenzene	353000	6.763			
3114-55-4	Chlorobenzene-d5	316000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	144000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
007446-09-5	Sulfur dioxide	6.90	J		1.26	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1	SDG No.:	O2521
Lab Sample ID:	O2521-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035479.D	1		05/02/23 15:12	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15	SDG No.:	O2521
Lab Sample ID:	O2521-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035480.D	1		05/02/23 15:35	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	10.9		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	0.35	J	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15	SDG No.:	O2521
Lab Sample ID:	O2521-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035480.D	1		05/02/23 15:35	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	12.5		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	0.44	J	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.10		0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.7		74 - 125	97%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.6		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.3		64 - 133	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	234000	5.556			
540-36-3	1,4-Difluorobenzene	376000	6.757			
3114-55-4	Chlorobenzene-d5	348000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	172000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
007446-09-5	Sulfur dioxide	5.80	J		1.26	ug/L
109-99-9	Tetrahydrofuran	1.00	J		5.04	ug/L
98-06-6	tert-Butylbenzene	0.32	J		11.7	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15	SDG No.:	O2521
Lab Sample ID:	O2521-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035480.D	1		05/02/23 15:35	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
135-98-8	sec-Butylbenzene	0.47	J		11.9	ug/L
000611-15-4	Benzene, 1-ethenyl-2-methyl-	5.30	J		12.2	ug/L
	unknown13.122	6.30	J		13.1	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10	SDG No.:	O2521
Lab Sample ID:	O2521-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035481.D	1		05/02/23 15:58	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	6.40		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10	SDG No.:	O2521
Lab Sample ID:	O2521-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035481.D	1		05/02/23 15:58	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	0.37	J	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.0		74 - 125	98%	SPK: 50
1868-53-7	Dibromofluoromethane	48.7		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	51.5		86 - 113	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.7		64 - 133	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	240000	5.556			
540-36-3	1,4-Difluorobenzene	398000	6.763			
3114-55-4	Chlorobenzene-d5	366000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	172000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
007446-09-5	Sulfur dioxide	5.90	J		1.26	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10	SDG No.:	O2521
Lab Sample ID:	O2521-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035481.D	1		05/02/23 15:58	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7	SDG No.:	O2521
Lab Sample ID:	O2521-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035482.D	1		05/02/23 16:22	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	2.80	J	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7	SDG No.:	O2521
Lab Sample ID:	O2521-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035482.D	1		05/02/23 16:22	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.4		74 - 125	97%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	50.9		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.4		64 - 133	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	226000	5.55			
540-36-3	1,4-Difluorobenzene	370000	6.763			
3114-55-4	Chlorobenzene-d5	337000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	158000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
013881-91-9	Aminomethanesulfonic acid	5.30	J		1.26	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7	SDG No.:	O2521
Lab Sample ID:	O2521-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035482.D	1		05/02/23 16:22	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	TB-2	SDG No.:	O2521
Lab Sample ID:	O2521-13	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035476.D	1		05/02/23 14:02	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	5.00	U	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	TB-2	SDG No.:	O2521
Lab Sample ID:	O2521-13	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035476.D	1		05/02/23 14:02	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.9		74 - 125	96%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	50.1		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		64 - 133	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	245000	5.556			
540-36-3	1,4-Difluorobenzene	398000	6.763			
3114-55-4	Chlorobenzene-d5	350000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	160000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
007446-09-5	Sulfur dioxide	14.2	J		1.25	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	TB-2	SDG No.:	O2521
Lab Sample ID:	O2521-13	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035476.D	1		05/02/23 14:02	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	FB	SDG No.:	O2521
Lab Sample ID:	O2521-14	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035475.D	1		05/02/23 13:39	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	2.40	J	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	0.68	J	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	FB	SDG No.:	O2521
Lab Sample ID:	O2521-14	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035475.D	1		05/02/23 13:39	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.1		74 - 125	98%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.4		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.0		64 - 133	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	230000	5.55			
540-36-3	1,4-Difluorobenzene	377000	6.763			
3114-55-4	Chlorobenzene-d5	348000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	168000	12.024			
TENTATIVE IDENTIFIED COMPOUNDS						
007446-09-5	Sulfur dioxide	16.6	J		1.25	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	FB	SDG No.:	O2521
Lab Sample ID:	O2521-14	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035475.D	1		05/02/23 13:39	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

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Surrogate Summary

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
O2521-01	GMW-1	1,2-Dichloroethane-d4	50	49.6	99	74	125
		Dibromofluoromethane	50	50.3	101	75	124
		Toluene-d8	50	50.4	101	86	113
		4-Bromofluorobenzene	50	49.9	100	64	133
O2521-03	PZ-15	1,2-Dichloroethane-d4	50	48.7	97	74	125
		Dibromofluoromethane	50	50.5	101	75	124
		Toluene-d8	50	50.6	101	86	113
		4-Bromofluorobenzene	50	54.3	109	64	133
O2521-05	GMW-10	1,2-Dichloroethane-d4	50	49.0	98	74	125
		Dibromofluoromethane	50	48.7	97	75	124
		Toluene-d8	50	51.5	103	86	113
		4-Bromofluorobenzene	50	51.7	103	64	133
O2521-07	GMW-7	1,2-Dichloroethane-d4	50	48.4	97	74	125
		Dibromofluoromethane	50	50.3	100	75	124
		Toluene-d8	50	50.9	102	86	113
		4-Bromofluorobenzene	50	51.4	103	64	133
O2521-09MS	GMW-7MS	1,2-Dichloroethane-d4	50	51.6	103	74	125
		Dibromofluoromethane	50	46.0	92	75	124
		Toluene-d8	50	43.6	87	86	113
		4-Bromofluorobenzene	50	43.0	86	64	133
O2521-10MSD	GMW-7MSD	1,2-Dichloroethane-d4	50	62.4	125	74	125
		Dibromofluoromethane	50	56.0	112	75	124
		Toluene-d8	50	53.0	106	86	113
		4-Bromofluorobenzene	50	55.0	110	64	133
O2521-13	TB-2	1,2-Dichloroethane-d4	50	47.9	96	74	125
		Dibromofluoromethane	50	50.2	100	75	124
		Toluene-d8	50	50.1	100	86	113
		4-Bromofluorobenzene	50	49.0	98	64	133
O2521-14	FB	1,2-Dichloroethane-d4	50	49.1	98	74	125
		Dibromofluoromethane	50	50.6	101	75	124
		Toluene-d8	50	50.4	101	86	113
		4-Bromofluorobenzene	50	53.0	106	64	133
VX0502WBL01	VX0502WBL01	1,2-Dichloroethane-d4	50	47.1	94	74	125
		Dibromofluoromethane	50	49.6	99	75	124
		Toluene-d8	50	50.6	101	86	113
		4-Bromofluorobenzene	50	51.5	103	64	133
VX0502WBS01	VX0502WBS01	1,2-Dichloroethane-d4	50	49.6	99	74	125
		Dibromofluoromethane	50	51.9	104	75	124
		Toluene-d8	50	50.6	101	86	113
		4-Bromofluorobenzene	50	51.4	103	64	133

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low

Lab Sample ID : O2521-09MS **Client Sample ID :** GMW-7MS **Datafile :** VX035489.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Dichlorodifluoromethane	50	0	41.4	ug/L	83				73	120	
Chloromethane	50	0	40.3	ug/L	81				58	133	
Vinyl chloride	50	0	41.7	ug/L	83				69	125	
Bromomethane	50	0	34.2	ug/L	68				61	120	
Chloroethane	50	0	44.0	ug/L	88				58	134	
Trichlorofluoromethane	50	0	42.9	ug/L	86				72	124	
1,1,2-Trichlorotrifluoroethane	50	0	38.7	ug/L	77				75	117	
1,1-Dichloroethene	50	0	41.9	ug/L	84				77	118	
Acetone	250	2.80	270	ug/L	107				57	139	
Carbon disulfide	50	0	38.1	ug/L	76				67	118	
Methyl tert-butyl Ether	50	0	53.6	ug/L	107				60	148	
Methyl Acetate	50	0	54.0	ug/L	108				60	133	
Methylene Chloride	50	0	44.4	ug/L	89				79	115	
trans-1,2-Dichloroethene	50	0	44.4	ug/L	89				76	118	
1,1-Dichloroethane	50	0	48.3	ug/L	97				78	122	
Cyclohexane	50	0	40.3	ug/L	81				71	119	
2-Butanone	250	0	310	ug/L	124				67	137	
Carbon Tetrachloride	50	0	42.2	ug/L	84				84	115	
cis-1,2-Dichloroethene	50	0	50.2	ug/L	100				82	124	
Bromochloromethane	50	0	50.6	ug/L	101				72	130	
Chloroform	50	0	52.4	ug/L	105				83	119	
1,1,1-Trichloroethane	50	0	48.1	ug/L	96				83	117	
Methylcyclohexane	50	0	33.0	ug/L	66				64	120	
Benzene	50	0	44.6	ug/L	89				63	133	
1,2-Dichloroethane	50	0	48.3	ug/L	97				76	120	
Trichloroethene	50	0	41.7	ug/L	83				33	175	
1,2-Dichloropropane	50	0	47.0	ug/L	94				85	116	
Bromodichloromethane	50	0	48.8	ug/L	98				86	117	
4-Methyl-2-Pentanone	250	0	280	ug/L	112				72	137	
Toluene	50	0	44.2	ug/L	88				85	115	
t-1,3-Dichloropropene	50	0	46.2	ug/L	92				78	117	
cis-1,3-Dichloropropene	50	0	45.4	ug/L	91				77	115	
1,1,2-Trichloroethane	50	0	49.3	ug/L	99				87	119	
2-Hexanone	250	0	290	ug/L	116				75	131	
Dibromochloromethane	50	0	52.0	ug/L	104				88	118	
1,2-Dibromoethane	50	0	50.6	ug/L	101				85	119	
Tetrachloroethene	50	0	37.8	ug/L	76				65	114	
Chlorobenzene	50	0	43.8	ug/L	88				85	114	
Ethyl Benzene	50	0	42.0	ug/L	84				62	134	
m/p-Xylenes	100	0	82.9	ug/L	83				47	145	
o-Xylene	50	0	43.6	ug/L	87				56	140	
Styrene	50	0	43.8	ug/L	88				84	128	
Bromoform	50	0	53.6	ug/L	107				83	121	
Isopropylbenzene	50	0	44.3	ug/L	89				76	121	
1,1,2,2-Tetrachloroethane	50	0	56.7	ug/L	113				66	145	
1,3-Dichlorobenzene	50	0	44.0	ug/L	88				84	110	
1,4-Dichlorobenzene	50	0	42.0	ug/L	84				81	111	

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
1,2-Dichlorobenzene	50	0	45.0	ug/L	90				82	113	
1,2-Dibromo-3-Chloropropane	50	0	61.8	ug/L	124				79	137	
1,2,4-Trichlorobenzene	50	0	36.5	ug/L	73				73	120	
1,2,3-Trichlorobenzene	50	0	36.7	ug/L	73	*			75	119	

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low

Lab Sample ID : O2521-10MSD **Client Sample ID :** GMW-7MSD **Datafile :** VX035490.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Dichlorodifluoromethane	50	0	36.3	ug/L	73		13		73	120	20
Chloromethane	50	0	43.4	ug/L	87		7		58	133	20
Vinyl chloride	50	0	42.1	ug/L	84		1		69	125	20
Bromomethane	50	0	39.1	ug/L	78		13		61	120	20
Chloroethane	50	0	42.3	ug/L	85		4		58	134	20
Trichlorofluoromethane	50	0	41.1	ug/L	82		4		72	124	20
1,1,2-Trichlorotrifluoroethane	50	0	34.6	ug/L	69	*	11		75	117	20
1,1-Dichloroethene	50	0	42.4	ug/L	85		1		77	118	20
Acetone	250	2.80	260	ug/L	103		4		57	139	20
Carbon disulfide	50	0	41.3	ug/L	83		8		67	118	20
Methyl tert-butyl Ether	50	0	57.3	ug/L	115		7		60	148	20
Methyl Acetate	50	0	51.3	ug/L	103		5		60	133	20
Methylene Chloride	50	0	48.1	ug/L	96		8		79	115	20
trans-1,2-Dichloroethene	50	0	46.3	ug/L	93		4		76	118	20
1,1-Dichloroethane	50	0	50.5	ug/L	101		4		78	122	20
Cyclohexane	50	0	35.1	ug/L	70	*	14		71	119	20
2-Butanone	250	0	270	ug/L	108		14		67	137	20
Carbon Tetrachloride	50	0	41.7	ug/L	83	*	1		84	115	20
cis-1,2-Dichloroethene	50	0	51.0	ug/L	102		2		82	124	20
Bromochloromethane	50	0	51.9	ug/L	104		3		72	130	20
Chloroform	50	0	53.3	ug/L	107		2		83	119	20
1,1,1-Trichloroethane	50	0	48.8	ug/L	98		1		83	117	20
Methylcyclohexane	50	0	27.9	ug/L	56	*	17		64	120	20
Benzene	50	0	43.8	ug/L	88		2		63	133	20
1,2-Dichloroethane	50	0	48.8	ug/L	98		1		76	120	20
Trichloroethene	50	0	43.2	ug/L	86		4		33	175	20
1,2-Dichloropropane	50	0	48.5	ug/L	97		3		85	116	20
Bromodichloromethane	50	0	52.6	ug/L	105		7		86	117	20
4-Methyl-2-Pentanone	250	0	270	ug/L	108		4		72	137	20
Toluene	50	0	46.3	ug/L	93		5		85	115	20
t-1,3-Dichloropropene	50	0	51.4	ug/L	103		11		78	117	20
cis-1,3-Dichloropropene	50	0	49.3	ug/L	99		8		77	115	20
1,1,2-Trichloroethane	50	0	52.0	ug/L	104		5		87	119	20
2-Hexanone	250	0	270	ug/L	108		7		75	131	20
Dibromochloromethane	50	0	56.3	ug/L	113		8		88	118	20
1,2-Dibromoethane	50	0	53.1	ug/L	106		5		85	119	20
Tetrachloroethene	50	0	35.9	ug/L	72		5		65	114	20
Chlorobenzene	50	0	43.9	ug/L	88		0		85	114	20
Ethyl Benzene	50	0	42.3	ug/L	85		1		62	134	20
m/p-Xylenes	100	0	84.2	ug/L	84		2		47	145	20
o-Xylene	50	0	44.1	ug/L	88		1		56	140	20
Styrene	50	0	45.3	ug/L	91		3		84	128	20
Bromoform	50	0	53.8	ug/L	108		0		83	121	20
Isopropylbenzene	50	0	43.1	ug/L	86		3		76	121	20
1,1,2,2-Tetrachloroethane	50	0	51.6	ug/L	103		9		66	145	20
1,3-Dichlorobenzene	50	0	44.9	ug/L	90		2		84	110	20
1,4-Dichlorobenzene	50	0	43.4	ug/L	87		3		81	111	20

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,2-Dichlorobenzene	50	0	45.1	ug/L	90		0		82	113	20
1,2-Dibromo-3-Chloropropane	50	0	56.1	ug/L	112		10		79	137	20
1,2,4-Trichlorobenzene	50	0	41.4	ug/L	83		13		73	120	20
1,2,3-Trichlorobenzene	50	0	41.2	ug/L	82		12		75	119	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8260-Low **Datafile :** VX035471.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0502WBS01	Dichlorodifluoromethane	20	18.3	ug/L	92			69	116	
	Chloromethane	20	16.2	ug/L	81			65	116	
	Vinyl chloride	20	16.8	ug/L	84			65	117	
	Bromomethane	20	15.9	ug/L	79			42	173	
	Chloroethane	20	16.5	ug/L	83			44	165	
	Trichlorofluoromethane	20	17.8	ug/L	89			73	115	
	1,1,2-Trichlorotrifluoroethane	20	18.4	ug/L	92			80	112	
	1,1-Dichloroethene	20	17.3	ug/L	86			74	110	
	Acetone	100	91.7	ug/L	92			60	125	
	Carbon disulfide	20	16.2	ug/L	81			64	112	
	Methyl tert-butyl Ether	20	19.2	ug/L	96			78	114	
	Methyl Acetate	20	18.4	ug/L	92			67	125	
	Methylene Chloride	20	17.0	ug/L	85			72	114	
	trans-1,2-Dichloroethene	20	17.5	ug/L	88			75	108	
	1,1-Dichloroethane	20	18.2	ug/L	91			78	112	
	Cyclohexane	20	17.0	ug/L	85			75	110	
	2-Butanone	100	88.2	ug/L	88			65	122	
	Carbon Tetrachloride	20	19.3	ug/L	97			77	113	
	cis-1,2-Dichloroethene	20	17.7	ug/L	89			77	110	
	Bromochloromethane	20	20.5	ug/L	103			70	124	
	Chloroform	20	18.9	ug/L	95			79	113	
	1,1,1-Trichloroethane	20	18.6	ug/L	93			80	108	
	Methylcyclohexane	20	18.2	ug/L	91			72	115	
	Benzene	20	18.3	ug/L	92			82	109	
	1,2-Dichloroethane	20	19.2	ug/L	96			80	115	
	Trichloroethene	20	18.7	ug/L	94			77	113	
	1,2-Dichloropropane	20	19.0	ug/L	95			83	111	
	Bromodichloromethane	20	19.9	ug/L	100			83	110	
	4-Methyl-2-Pentanone	100	94.9	ug/L	95			74	118	
	Toluene	20	18.6	ug/L	93			82	110	
	t-1,3-Dichloropropene	20	20.5	ug/L	103			79	110	
	cis-1,3-Dichloropropene	20	20.0	ug/L	100			82	110	
	1,1,2-Trichloroethane	20	19.4	ug/L	97			83	112	
	2-Hexanone	100	93.9	ug/L	94			73	117	
	Dibromochloromethane	20	20.8	ug/L	104			82	110	
	1,2-Dibromoethane	20	19.8	ug/L	99			81	110	
	Tetrachloroethene	20	19.1	ug/L	96			67	123	
	Chlorobenzene	20	18.8	ug/L	94			82	109	
	Ethyl Benzene	20	19.2	ug/L	96			83	109	
	m/p-Xylenes	40	38.9	ug/L	97			82	110	
	o-Xylene	20	19.4	ug/L	97			83	109	
	Styrene	20	19.7	ug/L	99			80	111	
	Bromoform	20	20.4	ug/L	102			79	109	
	Isopropylbenzene	20	20.0	ug/L	100			83	112	
	1,1,2,2-Tetrachloroethane	20	19.7	ug/L	99			76	118	
	1,3-Dichlorobenzene	20	19.6	ug/L	98			82	108	
	1,4-Dichlorobenzene	20	18.5	ug/L	93			82	107	
	1,2-Dichlorobenzene	20	19.1	ug/L	96			82	109	
	1,2-Dibromo-3-Chloropropane	20	19.7	ug/L	99			68	112	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: **O2521**

Client: **GEI Consultants, Inc., P.C.**

Analytical Method: **SW8260-Low** **Datafile :** VX035471.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0502WBS01	1,2,4-Trichlorobenzene	20	19.7	ug/L	99			74	114	
	1,2,3-Trichlorobenzene	20	19.7	ug/L	99			77	113	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0502WBL01

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

Lab File ID: VX035468.D Lab Sample ID: VX0502WBL01

Date Analyzed: 05/02/2023 Time Analyzed: 10:42

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0502WBS01	VX0502WBS01	VX035471.D	05/02/2023
FB	O2521-14	VX035475.D	05/02/2023
TB-2	O2521-13	VX035476.D	05/02/2023
GMW-1	O2521-01	VX035479.D	05/02/2023
PZ-15	O2521-03	VX035480.D	05/02/2023
GMW-10	O2521-05	VX035481.D	05/02/2023
GMW-7	O2521-07	VX035482.D	05/02/2023
GMW-7MS	O2521-09MS	VX035489.D	05/02/2023
GMW-7MSD	O2521-10MSD	VX035490.D	05/02/2023

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

Lab File ID: VX035269.D BFB Injection Date: 04/25/2023

Instrument ID: MSVOA_X BFB Injection Time: 08:57

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.5
75	30.0 - 60.0% of mass 95	49.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.5 (0.6) 1
174	50.0 - 100.0% of mass 95	75.5
175	5.0 - 9.0% of mass 174	5.9 (7.8) 1
176	95.0 - 101.0% of mass 174	75.2 (99.5) 1
177	5.0 - 9.0% of mass 176	5.1 (6.7) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VX035272.D	04/25/2023	10:37
VSTDICC005	VSTDICC005	VX035273.D	04/25/2023	11:00
VSTDICC020	VSTDICC020	VX035274.D	04/25/2023	11:23
VSTDICCC050	VSTDICCC050	VX035275.D	04/25/2023	11:46
VSTDICC150	VSTDICC150	VX035277.D	04/25/2023	12:32
VSTDICC100	VSTDICC100	VX035279.D	04/25/2023	13:21

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

Lab File ID: VX035465.D BFB Injection Date: 05/02/2023

Instrument ID: MSVOA_X BFB Injection Time: 09:18

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.6
75	30.0 - 60.0% of mass 95	48.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.3 (0.4) 1
174	50.0 - 100.0% of mass 95	78.1
175	5.0 - 9.0% of mass 174	5.8 (7.4) 1
176	95.0 - 101.0% of mass 174	75.8 (97.1) 1
177	5.0 - 9.0% of mass 176	5.2 (6.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX035466.D	05/02/2023	09:51
VX0502WBL01	VX0502WBL01	VX035468.D	05/02/2023	10:42
VX0502WBS01	VX0502WBS01	VX035471.D	05/02/2023	12:06
FB	O2521-14	VX035475.D	05/02/2023	13:39
TB-2	O2521-13	VX035476.D	05/02/2023	14:02
GMW-1	O2521-01	VX035479.D	05/02/2023	15:12
PZ-15	O2521-03	VX035480.D	05/02/2023	15:35
GMW-10	O2521-05	VX035481.D	05/02/2023	15:58
GMW-7	O2521-07	VX035482.D	05/02/2023	16:22
GMW-7MS	O2521-09MS	VX035489.D	05/02/2023	19:05
GMW-7MSD	O2521-10MSD	VX035490.D	05/02/2023	19:28

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

Lab File ID: VX035466.D Date Analyzed: 05/02/2023

Instrument ID: MSVOA_X Time Analyzed: 09:51

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	266388	5.55	413827	6.76	352802	10.06
UPPER LIMIT	532776	6.05	827654	7.257	705604	10.555
LOWER LIMIT	133194	5.05	206914	6.257	176401	9.555
EPA SAMPLE NO.						
GMW-1	219899	5.55	353240	6.76	315578	10.06
PZ-15	234153	5.56	376409	6.76	347920	10.06
GMW-10	239956	5.56	398040	6.76	365850	10.06
GMW-7	226018	5.55	369917	6.76	336556	10.06
GMW-7MS	158417	5.55	275723	6.76	245530	10.06
GMW-7MSD	183547	5.56	326028	6.76	309770	10.06
TB-2	244671	5.56	397795	6.76	349827	10.06
FB	229556	5.55	377193	6.76	347606	10.06
VX0502WBL01	262892	5.55	425885	6.76	388967	10.06
VX0502WBS01	252421	5.56	389892	6.76	341434	10.06

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

Lab File ID: VX035466.D Date Analyzed: 05/02/2023

Instrument ID: MSVOA_X Time Analyzed: 09:51

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	175791	12.018				
UPPER LIMIT	351582	12.518				
LOWER LIMIT	87895.5	11.518				
EPA SAMPLE NO.						
GMW-1	144473	12.02				
PZ-15	171803	12.02				
GMW-10	172382	12.02				
GMW-7	158095	12.02				
GMW-7MS	112617	12.02				
GMW-7MSD	147703	12.02				
TB-2	159751	12.02				
FB	167849	12.02				
VX0502WBL01	180000	12.02				
VX0502WBS01	169110	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0502WBL01	SDG No.:	O2521
Lab Sample ID:	VX0502WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035468.D	1		05/02/23 10:42	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.00	U	0.14	1.00	ug/L
74-87-3	Chloromethane	1.00	U	0.25	1.00	ug/L
75-01-4	Vinyl Chloride	1.00	U	0.25	1.00	ug/L
74-83-9	Bromomethane	5.00	U	1.60	5.00	ug/L
75-00-3	Chloroethane	1.00	U	0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.00	U	0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.00	U	0.21	1.00	ug/L
67-64-1	Acetone	5.00	U	1.20	5.00	ug/L
75-15-0	Carbon Disulfide	1.00	U	0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	1.00	U	0.14	1.00	ug/L
79-20-9	Methyl Acetate	1.00	U	0.36	1.00	ug/L
75-09-2	Methylene Chloride	1.00	U	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	1.00	U	0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	1.00	U	0.16	1.00	ug/L
110-82-7	Cyclohexane	5.00	U	1.60	5.00	ug/L
78-93-3	2-Butanone	5.00	U	1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.00	U	0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.00	U	0.20	1.00	ug/L
74-97-5	Bromochloromethane	1.00	U	0.14	1.00	ug/L
67-66-3	Chloroform	1.00	U	0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	1.00	U	0.14	1.00	ug/L
108-87-2	Methylcyclohexane	1.00	U	0.16	1.00	ug/L
71-43-2	Benzene	1.00	U	0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	1.00	U	0.16	1.00	ug/L
79-01-6	Trichloroethene	1.00	U	0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	1.00	U	0.15	1.00	ug/L
75-27-4	Bromodichloromethane	1.00	U	0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	5.00	U	0.74	5.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	1.00	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.00	U	0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0502WBL01	SDG No.:	O2521
Lab Sample ID:	VX0502WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035468.D	1		05/02/23 10:42	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	1.00	U	0.13	1.00	ug/L
591-78-6	2-Hexanone	5.00	U	0.98	5.00	ug/L
124-48-1	Dibromochloromethane	1.00	U	0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	1.00	U	0.13	1.00	ug/L
127-18-4	Tetrachloroethene	1.00	U	0.17	1.00	ug/L
108-90-7	Chlorobenzene	1.00	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	2.00	U	0.31	2.00	ug/L
95-47-6	o-Xylene	1.00	U	0.15	1.00	ug/L
100-42-5	Styrene	1.00	U	0.13	1.00	ug/L
75-25-2	Bromoform	1.00	U	0.15	1.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	1.00	U	0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	1.00	U	0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	1.00	U	0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	1.00	U	0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.00	U	0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.1		74 - 125	94%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	50.6		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		64 - 133	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	263000	5.55			
540-36-3	1,4-Difluorobenzene	426000	6.763			
3114-55-4	Chlorobenzene-d5	389000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	180000	12.024			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0502WBL01	SDG No.:	O2521
Lab Sample ID:	VX0502WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035468.D	1		05/02/23 10:42	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0502WBS01	SDG No.:	O2521
Lab Sample ID:	VX0502WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035471.D	1		05/02/23 12:06	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	18.3		0.14	1.00	ug/L
74-87-3	Chloromethane	16.2		0.25	1.00	ug/L
75-01-4	Vinyl Chloride	16.8		0.25	1.00	ug/L
74-83-9	Bromomethane	15.9		1.60	5.00	ug/L
75-00-3	Chloroethane	16.5		0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	17.8		0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.4		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.3		0.21	1.00	ug/L
67-64-1	Acetone	91.7		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	16.2		0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.2		0.14	1.00	ug/L
79-20-9	Methyl Acetate	18.4		0.36	1.00	ug/L
75-09-2	Methylene Chloride	17.0		0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.5		0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.2		0.16	1.00	ug/L
110-82-7	Cyclohexane	17.0		1.60	5.00	ug/L
78-93-3	2-Butanone	88.2		1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.3		0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.7		0.20	1.00	ug/L
74-97-5	Bromochloromethane	20.5		0.14	1.00	ug/L
67-66-3	Chloroform	18.9		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.6		0.14	1.00	ug/L
108-87-2	Methylcyclohexane	18.2		0.16	1.00	ug/L
71-43-2	Benzene	18.3		0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.2		0.16	1.00	ug/L
79-01-6	Trichloroethene	18.7		0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.0		0.15	1.00	ug/L
75-27-4	Bromodichloromethane	19.9		0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	94.9		0.74	5.00	ug/L
108-88-3	Toluene	18.6		0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	20.5		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.0		0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0502WBS01	SDG No.:	O2521
Lab Sample ID:	VX0502WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035471.D	1		05/02/23 12:06	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	19.4		0.13	1.00	ug/L
591-78-6	2-Hexanone	93.9		0.98	5.00	ug/L
124-48-1	Dibromochloromethane	20.8		0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.8		0.13	1.00	ug/L
127-18-4	Tetrachloroethene	19.1		0.17	1.00	ug/L
108-90-7	Chlorobenzene	18.8		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	19.2		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	38.9		0.31	2.00	ug/L
95-47-6	o-Xylene	19.4		0.15	1.00	ug/L
100-42-5	Styrene	19.7		0.13	1.00	ug/L
75-25-2	Bromoform	20.4		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	20.0		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.7		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.6		0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.5		0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.1		0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.7		0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.7		0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.7		0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.7		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		75 - 124	104%	SPK: 50
2037-26-5	Toluene-d8	50.6		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.4		64 - 133	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	252000	5.556			
540-36-3	1,4-Difluorobenzene	390000	6.757			
3114-55-4	Chlorobenzene-d5	341000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	169000	12.024			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	VX0502WBS01	SDG No.:	O2521
Lab Sample ID:	VX0502WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035471.D	1		05/02/23 12:06	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MS	SDG No.:	O2521
Lab Sample ID:	O2521-09MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035489.D	1		05/02/23 19:05	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	41.4		0.14	1.00	ug/L
74-87-3	Chloromethane	40.3		0.25	1.00	ug/L
75-01-4	Vinyl Chloride	41.7		0.25	1.00	ug/L
74-83-9	Bromomethane	34.2		1.60	5.00	ug/L
75-00-3	Chloroethane	44.0		0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	42.9		0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	38.7		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	41.9		0.21	1.00	ug/L
67-64-1	Acetone	270		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	38.1		0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	53.6		0.14	1.00	ug/L
79-20-9	Methyl Acetate	54.0		0.36	1.00	ug/L
75-09-2	Methylene Chloride	44.4		0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	44.4		0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	48.3		0.16	1.00	ug/L
110-82-7	Cyclohexane	40.3		1.60	5.00	ug/L
78-93-3	2-Butanone	310		1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	42.2		0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	50.2		0.20	1.00	ug/L
74-97-5	Bromochloromethane	50.6		0.14	1.00	ug/L
67-66-3	Chloroform	52.4		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	48.1		0.14	1.00	ug/L
108-87-2	Methylcyclohexane	33.0		0.16	1.00	ug/L
71-43-2	Benzene	44.6		0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	48.3		0.16	1.00	ug/L
79-01-6	Trichloroethene	41.7		0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	47.0		0.15	1.00	ug/L
75-27-4	Bromodichloromethane	48.8		0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	280		0.74	5.00	ug/L
108-88-3	Toluene	44.2		0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	46.2		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	45.4		0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MS	SDG No.:	O2521
Lab Sample ID:	O2521-09MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035489.D	1		05/02/23 19:05	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	49.3		0.13	1.00	ug/L
591-78-6	2-Hexanone	290		0.98	5.00	ug/L
124-48-1	Dibromochloromethane	52.0		0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	50.6		0.13	1.00	ug/L
127-18-4	Tetrachloroethene	37.8		0.17	1.00	ug/L
108-90-7	Chlorobenzene	43.8		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	42.0		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	82.9		0.31	2.00	ug/L
95-47-6	o-Xylene	43.6		0.15	1.00	ug/L
100-42-5	Styrene	43.8		0.13	1.00	ug/L
75-25-2	Bromoform	53.6		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	44.3		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	56.7		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	44.0		0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	42.0		0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	45.0		0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	61.8		0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	36.5		0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	36.7		0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.6		74 - 125	103%	SPK: 50
1868-53-7	Dibromofluoromethane	46.0		75 - 124	92%	SPK: 50
2037-26-5	Toluene-d8	43.6		86 - 113	87%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.0		64 - 133	86%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	158000	5.55			
540-36-3	1,4-Difluorobenzene	276000	6.763			
3114-55-4	Chlorobenzene-d5	246000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	113000	12.024			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MS	SDG No.:	O2521
Lab Sample ID:	O2521-09MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035489.D	1		05/02/23 19:05	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MSD	SDG No.:	O2521
Lab Sample ID:	O2521-10MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035490.D	1		05/02/23 19:28	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	36.3		0.14	1.00	ug/L
74-87-3	Chloromethane	43.4		0.25	1.00	ug/L
75-01-4	Vinyl Chloride	42.1		0.25	1.00	ug/L
74-83-9	Bromomethane	39.1		1.60	5.00	ug/L
75-00-3	Chloroethane	42.3		0.28	1.00	ug/L
75-69-4	Trichlorofluoromethane	41.1		0.13	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	34.6		0.21	1.00	ug/L
75-35-4	1,1-Dichloroethene	42.4		0.21	1.00	ug/L
67-64-1	Acetone	260		1.20	5.00	ug/L
75-15-0	Carbon Disulfide	41.3		0.27	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	57.3		0.14	1.00	ug/L
79-20-9	Methyl Acetate	51.3		0.36	1.00	ug/L
75-09-2	Methylene Chloride	48.1		0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	46.3		0.17	1.00	ug/L
75-34-3	1,1-Dichloroethane	50.5		0.16	1.00	ug/L
110-82-7	Cyclohexane	35.1		1.60	5.00	ug/L
78-93-3	2-Butanone	270		1.20	5.00	ug/L
56-23-5	Carbon Tetrachloride	41.7		0.13	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	51.0		0.20	1.00	ug/L
74-97-5	Bromochloromethane	51.9		0.14	1.00	ug/L
67-66-3	Chloroform	53.3		0.14	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	48.8		0.14	1.00	ug/L
108-87-2	Methylcyclohexane	27.9		0.16	1.00	ug/L
71-43-2	Benzene	43.8		0.12	1.00	ug/L
107-06-2	1,2-Dichloroethane	48.8		0.16	1.00	ug/L
79-01-6	Trichloroethene	43.2		0.26	1.00	ug/L
78-87-5	1,2-Dichloropropane	48.5		0.15	1.00	ug/L
75-27-4	Bromodichloromethane	52.6		0.15	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	270		0.74	5.00	ug/L
108-88-3	Toluene	46.3		0.14	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	51.4		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	49.3		0.15	1.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MSD	SDG No.:	O2521
Lab Sample ID:	O2521-10MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035490.D	1		05/02/23 19:28	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	52.0		0.13	1.00	ug/L
591-78-6	2-Hexanone	270		0.98	5.00	ug/L
124-48-1	Dibromochloromethane	56.3		0.15	1.00	ug/L
106-93-4	1,2-Dibromoethane	53.1		0.13	1.00	ug/L
127-18-4	Tetrachloroethene	35.9		0.17	1.00	ug/L
108-90-7	Chlorobenzene	43.9		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	42.3		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	84.2		0.31	2.00	ug/L
95-47-6	o-Xylene	44.1		0.15	1.00	ug/L
100-42-5	Styrene	45.3		0.13	1.00	ug/L
75-25-2	Bromoform	53.8		0.15	1.00	ug/L
98-82-8	Isopropylbenzene	43.1		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	51.6		0.15	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	44.9		0.23	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	43.4		0.24	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	45.1		0.17	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	56.1		0.43	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	41.4		0.43	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	41.2		0.55	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	62.4		74 - 125	125%	SPK: 50
1868-53-7	Dibromofluoromethane	56.0		75 - 124	112%	SPK: 50
2037-26-5	Toluene-d8	53.0		86 - 113	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.0		64 - 133	110%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	184000	5.556			
540-36-3	1,4-Difluorobenzene	326000	6.757			
3114-55-4	Chlorobenzene-d5	310000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	148000	12.024			

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MSD	SDG No.:	O2521
Lab Sample ID:	O2521-10MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX035490.D	1		05/02/23 19:28	VX050223

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: MSVOA_X Calibration Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Calibration Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX035272.D RRF005 = VX035273.D RRF020 = VX035274.D
RRF050 = VX035275.D RRF150 = VX035277.D RRF100 = VX035279.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF150	RRF100	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.488	0.488	0.515	0.550	0.543	0.589	0.529	7.5
Chloromethane	0.521	0.467	0.445	0.473	0.484	0.498	0.481	5.4
Vinyl Chloride	0.485	0.479	0.449	0.478	0.488	0.518	0.483	4.6
Bromomethane		0.316	0.307	0.317	0.328	0.336	0.321	3.5
Chloroethane	0.332	0.268	0.264	0.277	0.268	0.285	0.282	9
Trichlorofluoromethane	0.848	0.740	0.719	0.732	0.713	0.778	0.755	6.8
1,1,2-Trichlorotrifluoroethane	0.562	0.496	0.459	0.493	0.483	0.532	0.504	7.3
1,1-Dichloroethene	0.545	0.475	0.444	0.471	0.475	0.504	0.486	7.2
Acetone	0.310	0.255	0.247	0.253	0.237	0.270	0.262	9.9
Carbon Disulfide	1.168	1.018	1.053	1.182	1.259	1.304	1.164	9.6
Methyl tert-butyl Ether	1.731	1.674	1.558	1.657	1.649	1.727	1.666	3.8
Methyl Acetate	1.071	0.953	0.968	1.022	1.018	1.048	1.013	4.5
Methylene Chloride	0.840	0.588	0.536	0.539	0.536	0.565	0.601	19.8
trans-1,2-Dichloroethene	0.567	0.535	0.488	0.514	0.515	0.546	0.527	5.2
1,1-Dichloroethane	0.982	0.949	0.895	0.949	0.944	0.997	0.953	3.7
Cyclohexane		0.842	0.832	0.855	0.841	0.909	0.856	3.6
2-Butanone	0.395	0.386	0.365	0.382	0.373	0.394	0.382	3.1
Carbon Tetrachloride	0.427	0.412	0.429	0.466	0.485	0.511	0.455	8.5
cis-1,2-Dichloroethene	0.713	0.600	0.569	0.598	0.606	0.634	0.620	8.1
Bromochloromethane	0.364	0.421	0.404	0.415	0.417	0.414	0.406	5.2
Chloroform	0.969	0.967	0.924	0.960	0.950	0.999	0.962	2.6
1,1,1-Trichloroethane	0.848	0.797	0.778	0.851	0.874	0.908	0.843	5.7
Methylcyclohexane	0.593	0.561	0.550	0.580	0.579	0.637	0.583	5.2
Benzene	1.473	1.386	1.313	1.345	1.325	1.406	1.375	4.3
1,2-Dichloroethane	0.514	0.498	0.464	0.482	0.479	0.504	0.490	3.8
Trichloroethene	0.391	0.383	0.358	0.372	0.372	0.395	0.379	3.6
1,2-Dichloropropane	0.366	0.335	0.325	0.344	0.344	0.364	0.347	4.7
Bromodichloromethane	0.404	0.406	0.406	0.455	0.470	0.490	0.438	8.7
4-Methyl-2-Pentanone	0.465	0.459	0.439	0.454	0.434	0.461	0.452	2.8
Toluene	0.911	0.880	0.829	0.864	0.845	0.899	0.871	3.6
t-1,3-Dichloropropene	0.351	0.368	0.434	0.496	0.539	0.559	0.458	19.1
cis-1,3-Dichloropropene	0.419	0.459	0.496	0.553	0.577	0.603	0.518	13.8
1,1,2-Trichloroethane	0.382	0.344	0.326	0.343	0.336	0.352	0.347	5.6

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: MSVOA_X Calibration Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Calibration Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX035272.D RRF005 = VX035273.D RRF020 = VX035274.D
RRF050 = VX035275.D RRF150 = VX035277.D RRF100 = VX035279.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF150	RRF100	$\overline{RRF}$	% RSD
2-Hexanone	0.339	0.342	0.332	0.347	0.322	0.354	0.339	3.3
Dibromochloromethane	0.271	0.290	0.315	0.355	0.375	0.390	0.333	14.4
1,2-Dibromoethane	0.355	0.347	0.345	0.362	0.361	0.379	0.358	3.4
Tetrachloroethene	0.447	0.394	0.356	0.363	0.351	0.386	0.383	9.4
Chlorobenzene	1.214	1.127	0.997	1.030	1.022	1.101	1.082	7.6
Ethyl Benzene	1.993	1.874	1.739	1.854	1.811	1.969	1.873	5.1
m/p-Xylenes	0.731	0.731	0.679	0.710	0.697	0.760	0.718	4
o-Xylene	0.705	0.717	0.669	0.697	0.690	0.745	0.704	3.7
Styrene	1.078	1.132	1.088	1.154	1.147	1.248	1.141	5.3
Bromoform	0.213	0.219	0.234	0.279	0.306	0.321	0.262	17.7
Isopropylbenzene	3.616	3.740	3.546	3.603	3.607	3.818	3.655	2.8
1,1,2,2-Tetrachloroethane	1.225	1.172	1.082	1.102	1.085	1.142	1.134	5
1,3-Dichlorobenzene	1.794	1.735	1.619	1.675	1.721	1.816	1.727	4.3
1,4-Dichlorobenzene	2.166	1.837	1.637	1.681	1.706	1.834	1.810	10.6
1,2-Dichlorobenzene	2.007	1.786	1.599	1.632	1.600	1.738	1.727	9.1
1,2-Dibromo-3-Chloropropane	0.202	0.192	0.214	0.238	0.261	0.258	0.227	12.8
1,2,4-Trichlorobenzene	1.123	0.998	1.002	1.058	1.132	1.201	1.085	7.4
1,2,3-Trichlorobenzene	1.181	1.071	1.004	1.046	1.098	1.156	1.093	6.1
1,2-Dichloroethane-d4		0.633	0.613	0.597	0.573	0.600	0.603	3.7
Dibromofluoromethane		0.302	0.309	0.308	0.297	0.318	0.307	2.6
Toluene-d8		1.179	1.191	1.167	1.087	1.165	1.158	3.5
4-Bromofluorobenzene		0.428	0.442	0.436	0.421	0.450	0.435	2.6

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: MSVOA_X Calibration Date/Time: 05/02/2023 09:51

Lab File ID: VX035466.D Init. Calib. Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.529	0.525		-0.76	20
Chloromethane	0.481	0.419	0.1	-12.89	20
Vinyl Chloride	0.483	0.445		-7.87	20
Bromomethane	0.321	0.256		-20.25	20
Chloroethane	0.282	0.240		-14.89	20
Trichlorofluoromethane	0.755	0.726		-3.84	20
1,1,2-Trichlorotrifluoroethane	0.504	0.492		-2.38	20
1,1-Dichloroethene	0.486	0.454		-6.58	20
Acetone	0.262	0.253		-3.43	20
Carbon Disulfide	1.164	1.049		-9.88	20
Methyl tert-butyl Ether	1.666	1.634		-1.92	20
Methyl Acetate	1.013	0.936		-7.6	20
Methylene Chloride	0.601	0.517		-13.98	20
trans-1,2-Dichloroethene	0.527	0.493		-6.45	20
1,1-Dichloroethane	0.953	0.912	0.1	-4.3	20
Cyclohexane	0.856	0.812		-5.14	20
2-Butanone	0.382	0.354		-7.33	20
Carbon Tetrachloride	0.455	0.488		7.25	20
cis-1,2-Dichloroethene	0.620	0.602		-2.9	20
Bromochloromethane	0.406	0.375		-7.64	20
Chloroform	0.962	0.978		1.66	20
1,1,1-Trichloroethane	0.843	0.865		2.61	20
Methylcyclohexane	0.583	0.568		-2.57	20
Benzene	1.375	1.351		-1.75	20
1,2-Dichloroethane	0.490	0.487		-0.61	20
Trichloroethene	0.379	0.387		2.11	20
1,2-Dichloropropane	0.347	0.352		1.44	20
Bromodichloromethane	0.438	0.471		7.53	20
4-Methyl-2-Pentanone	0.452	0.435		-3.76	20
Toluene	0.871	0.852		-2.18	20
t-1,3-Dichloropropene	0.458	0.507		10.7	20
cis-1,3-Dichloropropene	0.518	0.580		11.97	20
1,1,2-Trichloroethane	0.347	0.342		-1.44	20
2-Hexanone	0.339	0.318		-6.2	20
Dibromochloromethane	0.333	0.369		10.81	20
1,2-Dibromoethane	0.358	0.359		0.28	20
Tetrachloroethene	0.383	0.375		-2.09	20
Chlorobenzene	1.082	1.079	0.3	-0.28	20
Ethyl Benzene	1.873	1.907		1.82	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: MSVOA_X Calibration Date/Time: 05/02/2023 09:51

Lab File ID: VX035466.D Init. Calib. Date(s): 04/25/2023 04/25/2023

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:37 13:21

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	$\overline{RRF}$	RRF050	MIN RRF	%D	MAX%D
m/p-Xylenes	0.718	0.728		1.39	20
o-Xylene	0.704	0.723		2.7	20
Styrene	1.141	1.203		5.43	20
Bromoform	0.262	0.304	0.1	16.03	20
Isopropylbenzene	3.655	3.799		3.94	20
1,1,2,2-Tetrachloroethane	1.134	1.130	0.3	-0.35	20
1,3-Dichlorobenzene	1.727	1.785		3.36	20
1,4-Dichlorobenzene	1.810	1.786		-1.33	20
1,2-Dichlorobenzene	1.727	1.741		0.81	20
1,2-Dibromo-3-Chloropropane	0.227	0.250		10.13	20
1,2,4-Trichlorobenzene	1.085	1.170		7.83	20
1,2,3-Trichlorobenzene	1.093	1.127		3.11	20
1,2-Dichloroethane-d4	0.603	0.559		-7.3	20
Dibromofluoromethane	0.307	0.303		-1.3	20
Toluene-d8	1.158	1.114		-3.8	20
4-Bromofluorobenzene	0.435	0.415		-4.6	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey - 07092
Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	O2521	**OrderDate:**	4/27/2023 8:52:00 AM
Client:	GEI Consultants, Inc., P.C.	**Project:**	Ferry Point
Contact:	Stacey Ng	**Location:**	M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O2521-01	**GMW-1**	**Water**			**04/26/23**			**04/26/23**
			SVOC-TCL BNA -20	8270E		04/27/23	05/02/23	
O2521-03	**PZ-15**	**Water**			**04/26/23**			**04/26/23**
			SVOC-TCL BNA -20	8270E		04/27/23	05/02/23	
O2521-05	**GMW-10**	**Water**			**04/26/23**			**04/26/23**
			SVOC-TCL BNA -20	8270E		04/27/23	05/02/23	
O2521-07	**GMW-7**	**Water**			**04/26/23**			**04/26/23**
			SVOC-TCL BNA -20	8270E		04/27/23	05/01/23	
O2521-14	**FB**	**Water**			**04/26/23**			**04/26/23**
			SVOC-TCL BNA -20	8270E		04/27/23	05/01/23	

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Hit Summary Sheet
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Sample ID	Client ID		Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**GMW-1**								
O2521-01	GMW-1	WATER	1-Hexadecanol	*	8.000	J	0	0	ug/L
O2521-01	GMW-1	WATER	Benzophenone	*	3.100	J	0	0	ug/L
O2521-01	GMW-1	WATER	Heneicosane	*	7.100	J	0	0	ug/L
O2521-01	GMW-1	WATER	Heptadecane	*	3.700	J	0	0	ug/L
O2521-01	GMW-1	WATER	n-Hexadecanoic acid	*	18.600	J	0	0	ug/L
O2521-01	GMW-1	WATER	Octadecanoic acid	*	18.600	J	0	0	ug/L
O2521-01	GMW-1	WATER	Pentacosane	*	4.800	J	0	0	ug/L
O2521-01	GMW-1	WATER	Supraene	*	3.900	J	0	0	ug/L
O2521-01	GMW-1	WATER	Tetracosane	*	6.700	J	0	0	ug/L
O2521-01	GMW-1	WATER	unknown13.168	*	7.800	J	0	0	ug/L
			Total Tics :			**82.30**			
			Total Concentration:			**82.30**			
Client ID :	**PZ-15**								
O2521-03	PZ-15	WATER	1-Nonadecene	*	7.200	J	0	0	ug/L
O2521-03	PZ-15	WATER	2(3H)-Benzothiazolone	*	2.700	J	0	0	ug/L
O2521-03	PZ-15	WATER	Benzene, 1,1-(1,5-hexadiene-1,6-c	*	2.700	J	0	0	ug/L
O2521-03	PZ-15	WATER	Benzene, 1,2,3,4-tetramethyl-	*	2.300	J	0	0	ug/L
O2521-03	PZ-15	WATER	Benzenesulfonamide, N-ethyl-4-m	*	3.000	J	0	0	ug/L
O2521-03	PZ-15	WATER	Benzophenone	*	3.900	J	0	0	ug/L
O2521-03	PZ-15	WATER	Ethanone, 1-(1,4-dimethyl-3-cycl	*	7.000	J	0	0	ug/L
O2521-03	PZ-15	WATER	n-Hexadecanoic acid	*	9.900	J	0	0	ug/L
O2521-03	PZ-15	WATER	Octadecanoic acid	*	3.800	J	0	0	ug/L
O2521-03	PZ-15	WATER	Phenol, p-tert-butyl-	*	2.700	J	0	0	ug/L
O2521-03	PZ-15	WATER	Supraene	*	5.000	J	0	0	ug/L
			Total Tics :			**50.20**			
			Total Concentration:			**50.20**			
Client ID :	**GMW-10**								
O2521-05	GMW-10	WATER	Benzophenone	*	10.000	J	0	0	ug/L
O2521-05	GMW-10	WATER	Cyclopentadecane	*	10.700	J	0	0	ug/L
O2521-05	GMW-10	WATER	Heneicosane	*	2.100	J	0	0	ug/L
O2521-05	GMW-10	WATER	n-Hexadecanoic acid	*	21.300	J	0	0	ug/L
O2521-05	GMW-10	WATER	Octadecanoic acid	*	17.000	J	0	0	ug/L
O2521-05	GMW-10	WATER	Supraene	*	2.400	J	0	0	ug/L
			Total Tics :			**63.50**			
			Total Concentration:			**63.50**			
Client ID :	**GMW-7**								
O2521-07	GMW-7	WATER	Benzophenone	*	3.100	J	0	0	ug/L
O2521-07	GMW-7	WATER	n-Hexadecanoic acid	*	7.900	J	0	0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Sample ID	Client ID		Parameter	Concentration		C	MDL	RDL	Units
O2521-07	GMW-7	WATER	Octadecanoic acid	*	12.200	J	0	0	ug/L
			Total Tics :		**23.20**				
			Total Concentration:		**23.20**				

SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1	SDG No.:	O2521
Lab Sample ID:	O2521-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133182.D	1	04/27/23 10:50	05/02/23 11:39	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1	SDG No.:	O2521
Lab Sample ID:	O2521-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133182.D	1	04/27/23 10:50	05/02/23 11:39	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1	SDG No.:	O2521
Lab Sample ID:	O2521-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133182.D	1	04/27/23 10:50	05/02/23 11:39	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	67.0		10 - 139	45%	SPK: 150
13127-88-3	Phenol-d6	40.9		10 - 134	27%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.9		49 - 133	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.4		52 - 132	85%	SPK: 100
118-79-6	2,4,6-Tribromophenol	129		45 - 141	86%	SPK: 150
1718-51-0	Terphenyl-d14	90.3		45 - 142	90%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	218000	6.728			
1146-65-2	Naphthalene-d8	868000	8.016			
15067-26-2	Acenaphthene-d10	448000	9.769			
1517-22-2	Phenanthrene-d10	782000	11.251			
1719-03-5	Chrysene-d12	465000	13.886			
1520-96-3	Perylene-d12	390000	15.304			
TENTATIVE IDENTIFIED COMPOUNDS						
000119-61-9	Benzophenone	3.10	J		10.5	ug/L
000057-10-3	n-Hexadecanoic acid	18.6	J		11.8	ug/L
000057-11-4	Octadecanoic acid	18.6	J		12.6	ug/L
	unknown13.168	7.80	J		13.2	ug/L
036653-82-4	1-Hexadecanol	8.00	J		13.8	ug/L
000629-99-2	Pentacosane	4.80	J		14.7	ug/L
007683-64-9	Supraene	3.90	J		14.7	ug/L
000629-94-7	Heneicosane	7.10	J		15.0	ug/L
000646-31-1	Tetracosane	6.70	J		15.8	ug/L
000629-78-7	Heptadecane	3.70	J		16.2	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1	SDG No.:	O2521
Lab Sample ID:	O2521-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133182.D	1	04/27/23 10:50	05/02/23 11:39	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15	SDG No.:	O2521
Lab Sample ID:	O2521-03	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133184.D	1	04/27/23 10:50	05/02/23 12:42	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15	SDG No.:	O2521
Lab Sample ID:	O2521-03	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133184.D	1	04/27/23 10:50	05/02/23 12:42	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15	SDG No.:	O2521
Lab Sample ID:	O2521-03	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133184.D	1	04/27/23 10:50	05/02/23 12:42	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	57.6		10 - 139	38%	SPK: 150
13127-88-3	Phenol-d6	36.2		10 - 134	24%	SPK: 150
4165-60-0	Nitrobenzene-d5	76.0		49 - 133	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	77.6		52 - 132	78%	SPK: 100
118-79-6	2,4,6-Tribromophenol	124		45 - 141	83%	SPK: 150
1718-51-0	Terphenyl-d14	77.1		45 - 142	77%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	203000	6.728			
1146-65-2	Naphthalene-d8	828000	8.01			
15067-26-2	Acenaphthene-d10	431000	9.763			
1517-22-2	Phenanthrene-d10	776000	11.245			
1719-03-5	Chrysene-d12	487000	13.88			
1520-96-3	Perylene-d12	372000	15.304			
TENTATIVE IDENTIFIED COMPOUNDS						
004439-45-6	Benzene, 1,1-(1,5-hexadiene-1,6-d	2.70	J		6.91	ug/L
043219-68-7	Ethanone, 1-(1,4-dimethyl-3-cycloh	7.00	J		7.45	ug/L
000488-23-3	Benzene, 1,2,3,4-tetramethyl-	2.30	J		7.76	ug/L
000098-54-4	Phenol, p-tert-butyl-	2.70	J		8.59	ug/L
000119-61-9	Benzophenone	3.90	J		10.5	ug/L
000934-34-9	2(3H)-Benzothiazolone	2.70	J		10.7	ug/L
000080-39-7	Benzenesulfonamide, N-ethyl-4-meth	3.00	J		10.8	ug/L
000057-10-3	n-Hexadecanoic acid	9.90	J		11.8	ug/L
000057-11-4	Octadecanoic acid	3.80	J		12.6	ug/L
018435-45-5	1-Nonadecene	7.20	J		13.8	ug/L
007683-64-9	Supraene	5.00	J		14.7	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15	SDG No.:	O2521
Lab Sample ID:	O2521-03	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133184.D	1	04/27/23 10:50	05/02/23 12:42	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10	SDG No.:	O2521
Lab Sample ID:	O2521-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133183.D	1	04/27/23 10:50	05/02/23 12:11	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10	SDG No.:	O2521
Lab Sample ID:	O2521-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133183.D	1	04/27/23 10:50	05/02/23 12:11	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10	SDG No.:	O2521
Lab Sample ID:	O2521-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133183.D	1	04/27/23 10:50	05/02/23 12:11	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	54.4		10 - 139	36%	SPK: 150
13127-88-3	Phenol-d6	33.7		10 - 134	22%	SPK: 150
4165-60-0	Nitrobenzene-d5	74.9		49 - 133	75%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.2		52 - 132	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	113		45 - 141	75%	SPK: 150
1718-51-0	Terphenyl-d14	76.0		45 - 142	76%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	222000	6.728			
1146-65-2	Naphthalene-d8	884000	8.016			
15067-26-2	Acenaphthene-d10	465000	9.769			
1517-22-2	Phenanthrene-d10	807000	11.251			
1719-03-5	Chrysene-d12	532000	13.88			
1520-96-3	Perylene-d12	408000	15.304			
TENTATIVE IDENTIFIED COMPOUNDS						
000119-61-9	Benzophenone	10.0	J		10.5	ug/L
000057-10-3	n-Hexadecanoic acid	21.3	J		11.8	ug/L
000057-11-4	Octadecanoic acid	17.0	J		12.6	ug/L
000295-48-7	Cyclopentadecane	10.7	J		13.8	ug/L
007683-64-9	Supraene	2.40	J		14.7	ug/L
000629-94-7	Heneicosane	2.10	J		15.8	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10	SDG No.:	O2521
Lab Sample ID:	O2521-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133183.D	1	04/27/23 10:50	05/02/23 12:11	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7	SDG No.:	O2521
Lab Sample ID:	O2521-07	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133151.D	1	04/27/23 10:50	05/01/23 12:47	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7	SDG No.:	O2521
Lab Sample ID:	O2521-07	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133151.D	1	04/27/23 10:50	05/01/23 12:47	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7	SDG No.:	O2521
Lab Sample ID:	O2521-07	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133151.D	1	04/27/23 10:50	05/01/23 12:47	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	68.0		10 - 139	45%	SPK: 150
13127-88-3	Phenol-d6	41.6		10 - 134	28%	SPK: 150
4165-60-0	Nitrobenzene-d5	89.3		49 - 133	89%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.8		52 - 132	88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	129		45 - 141	86%	SPK: 150
1718-51-0	Terphenyl-d14	101		45 - 142	101%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	187000	6.728			
1146-65-2	Naphthalene-d8	760000	8.016			
15067-26-2	Acenaphthene-d10	403000	9.763			
1517-22-2	Phenanthrene-d10	716000	11.245			
1719-03-5	Chrysene-d12	392000	13.88			
1520-96-3	Perylene-d12	352000	15.304			
TENTATIVE IDENTIFIED COMPOUNDS						
000119-61-9	Benzophenone	3.10	J		10.5	ug/L
000057-10-3	n-Hexadecanoic acid	7.90	J		11.8	ug/L
000057-11-4	Octadecanoic acid	12.2	J		12.6	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	FB	SDG No.:	O2521
Lab Sample ID:	O2521-14	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133161.D	1	04/27/23 10:50	05/01/23 18:06	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	FB	SDG No.:	O2521
Lab Sample ID:	O2521-14	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133161.D	1	04/27/23 10:50	05/01/23 18:06	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	FB	SDG No.:	O2521
Lab Sample ID:	O2521-14	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133161.D	1	04/27/23 10:50	05/01/23 18:06	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	64.3		10 - 139	43%	SPK: 150
13127-88-3	Phenol-d6	39.2		10 - 134	26%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.2		49 - 133	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.0		52 - 132	90%	SPK: 100
118-79-6	2,4,6-Tribromophenol	132		45 - 141	88%	SPK: 150
1718-51-0	Terphenyl-d14	113		45 - 142	113%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	182000	6.728			
1146-65-2	Naphthalene-d8	745000	8.01			
15067-26-2	Acenaphthene-d10	394000	9.763			
1517-22-2	Phenanthrene-d10	715000	11.245			
1719-03-5	Chrysene-d12	387000	13.88			
1520-96-3	Perylene-d12	370000	15.298			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Surrogate Summary

SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
O2521-01	GMW-1	2-Fluorophenol	150	67.0	45		10	139
		Phenol-d6	150	40.9	27		10	134
		Nitrobenzene-d5	100	86.9	87		49	133
		2-Fluorobiphenyl	100	85.4	85		52	132
		2,4,6-Tribromophenol	150	129	86		45	141
		Terphenyl-d14	100	90.3	90		45	142
O2521-03	PZ-15	2-Fluorophenol	150	57.6	38		10	139
		Phenol-d6	150	36.2	24		10	134
		Nitrobenzene-d5	100	76.0	76		49	133
		2-Fluorobiphenyl	100	77.6	78		52	132
		2,4,6-Tribromophenol	150	124	83		45	141
		Terphenyl-d14	100	77.1	77		45	142
O2521-05	GMW-10	2-Fluorophenol	150	54.4	36		10	139
		Phenol-d6	150	33.7	22		10	134
		Nitrobenzene-d5	100	74.9	75		49	133
		2-Fluorobiphenyl	100	75.2	75		52	132
		2,4,6-Tribromophenol	150	113	75		45	141
		Terphenyl-d14	100	76.0	76		45	142
O2521-07	GMW-7	2-Fluorophenol	150	68.0	45		10	139
		Phenol-d6	150	41.6	28		10	134
		Nitrobenzene-d5	100	89.3	89		49	133
		2-Fluorobiphenyl	100	87.8	88		52	132
		2,4,6-Tribromophenol	150	129	86		45	141
		Terphenyl-d14	100	101	101		45	142
O2521-09MS	GMW-7MS	2-Fluorophenol	150	51.8	35		10	139
		Phenol-d6	150	33.1	22		10	134
		Nitrobenzene-d5	100	70.2	70		49	133
		2-Fluorobiphenyl	100	74.1	74		52	132
		2,4,6-Tribromophenol	150	108	72		45	141
		Terphenyl-d14	100	93.7	94		45	142
O2521-10MSD	GMW-7MSD	2-Fluorophenol	150	49.7	33		10	139
		Phenol-d6	150	31.9	21		10	134
		Nitrobenzene-d5	100	70.1	70		49	133
		2-Fluorobiphenyl	100	74.2	74		52	132
		2,4,6-Tribromophenol	150	110	74		45	141
		Terphenyl-d14	100	92.5	92		45	142
O2521-14	FB	2-Fluorophenol	150	64.3	43		10	139
		Phenol-d6	150	39.2	26		10	134
		Nitrobenzene-d5	100	92.2	92		49	133
		2-Fluorobiphenyl	100	90.0	90		52	132
		2,4,6-Tribromophenol	150	132	88		45	141
		Terphenyl-d14	100	113	113		45	142
PB152460BL	PB152460BL	2-Fluorophenol	150	116	77		10	139
		Phenol-d6	150	117	78		10	134
		Nitrobenzene-d5	100	73.6	74		49	133
		2-Fluorobiphenyl	100	74.7	75		52	132
		2,4,6-Tribromophenol	150	114	76		45	141
		Terphenyl-d14	100	69.5	70		45	142
PB152460BS	PB152460BS	2-Fluorophenol	150	125	83		10	139
		Phenol-d6	150	121	81		10	134
		Nitrobenzene-d5	100	79.6	80		49	133
		2-Fluorobiphenyl	100	81.6	82		52	132

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Surrogate Summary

SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB152460BS	PB152460BS	2,4,6-Tribromophenol	150	123	82		45	141
		Terphenyl-d14	100	82.2	82		45	142

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: O2521-09MS		**Client Sample ID: GMW-7MS**						**DataFile: BF133152.D**			
Benzaldehyde	50	0	40.7	ug/L	81				10	137	
Phenol	50	0	13.2	ug/L	26				10	130	
bis(2-Chloroethyl)ether	50	0	36.7	ug/L	73				29	141	
2-Chlorophenol	50	0	32.6	ug/L	65				23	127	
2-Methylphenol	50	0	25.7	ug/L	51				43	134	
2,2-oxybis(1-Chloropropane)	50	0	34.5	ug/L	69				36	141	
Acetophenone	50	0	38.5	ug/L	77				31	164	
3+4-Methylphenols	50	0	23.3	ug/L	47				37	137	
N-Nitroso-di-n-propylamine	50	0	36.9	ug/L	74				36	147	
Hexachloroethane	50	0	32.0	ug/L	64				50	127	
Nitrobenzene	50	0	35.3	ug/L	71				59	129	
Isophorone	50	0	36.4	ug/L	73				39	146	
2-Nitrophenol	50	0	38.6	ug/L	77				30	148	
2,4-Dimethylphenol	50	0	34.7	ug/L	69				17	143	
bis(2-Chloroethoxy)methane	50	0	37.2	ug/L	74				39	143	
2,4-Dichlorophenol	50	0	36.2	ug/L	72				22	146	
Naphthalene	50	0	35.0	ug/L	70				17	157	
4-Chloroaniline	50	0	20.3	ug/L	41				10	95	
Hexachlorobutadiene	50	0	32.8	ug/L	66				52	125	
Caprolactam	50	0	9.70	ug/L	19				10	130	
4-Chloro-3-methylphenol	50	0	35.2	ug/L	70				17	148	
2-Methylnaphthalene	50	0	35.3	ug/L	71				38	146	
Hexachlorocyclopentadiene	100	0	69.2	ug/L	69				20	153	
2,4,6-Trichlorophenol	50	0	39.2	ug/L	78				64	129	
2,4,5-Trichlorophenol	50	0	36.4	ug/L	73				64	131	
1,1-Biphenyl	50	0	38.1	ug/L	76				38	154	
2-Chloronaphthalene	50	0	39.3	ug/L	79				41	145	
2-Nitroaniline	50	0	40.1	ug/L	80				39	151	
Dimethylphthalate	50	0	39.6	ug/L	79				42	147	
Acenaphthylene	50	0	38.1	ug/L	76				40	141	
2,6-Dinitrotoluene	50	0	40.9	ug/L	82				43	148	
3-Nitroaniline	50	0	23.4	ug/L	47				10	111	
Acenaphthene	50	0	42.2	ug/L	84				37	146	
2,4-Dinitrophenol	100	0	77.6	ug/L	78				14	167	
4-Nitrophenol	100	0	27.2	ug/L	27				10	130	
Dibenzofuran	50	0	38.5	ug/L	77				41	145	
2,4-Dinitrotoluene	50	0	42.1	ug/L	84				56	142	
Diethylphthalate	50	0	40.2	ug/L	80				41	148	
4-Chlorophenyl-phenylether	50	0	38.1	ug/L	76				38	149	
Fluorene	50	0	38.6	ug/L	77				39	144	
4-Nitroaniline	50	0	39.1	ug/L	78				27	138	
4,6-Dinitro-2-methylphenol	50	0	42.6	ug/L	85				32	175	
N-Nitrosodiphenylamine	50	0	39.3	ug/L	79				40	150	
4-Bromophenyl-phenylether	50	0	39.4	ug/L	79				42	151	
Hexachlorobenzene	50	0	41.0	ug/L	82				60	129	
Atrazine	50	0	43.6	ug/L	87				20	162	
Pentachlorophenol	100	0	63.2	ug/L	63				35	147	

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Phenanthrene	50	0	39.4	ug/L	79				40	147	
Anthracene	50	0	39.5	ug/L	79				41	146	
Carbazole	50	0	39.4	ug/L	79				37	154	
Di-n-butylphthalate	50	0	42.2	ug/L	84				40	151	
Fluoranthene	50	0	37.9	ug/L	76				42	146	
Pyrene	50	0	47.8	ug/L	96				41	149	
Butylbenzylphthalate	50	0	54.0	ug/L	108				39	155	
3,3-Dichlorobenzidine	50	0	27.9	ug/L	56				10	114	
Benzo(a)anthracene	50	0	40.1	ug/L	80				41	147	
Chrysene	50	0	39.4	ug/L	79				44	144	
bis(2-Ethylhexyl)phthalate	50	0	50.4	ug/L	101				33	160	
Di-n-octyl phthalate	50	0	50.1	ug/L	100				36	158	
Benzo(b)fluoranthene	50	0	38.7	ug/L	77				40	150	
Benzo(k)fluoranthene	50	0	38.6	ug/L	77				40	147	
Benzo(a)pyrene	50	0	38.3	ug/L	77				42	147	
Indeno(1,2,3-cd)pyrene	50	0	51.4	ug/L	103				30	166	
Dibenz(a,h)anthracene	50	0	52.0	ug/L	104				23	172	
Benzo(g,h,i)perylene	50	0	51.4	ug/L	103				27	167	
1,2,4,5-Tetrachlorobenzene	50	0	36.5	ug/L	73	*			89	102	
1,4-Dioxane	50	0	16.2	ug/L	32	*			38	130	
2,3,4,6-Tetrachlorophenol	50	0	39.3	ug/L	79	*			91	111	

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: O2521-10MSD		**Client Sample ID: GMW-7MSD**						**DataFile: BF133153.D**			
Benzaldehyde	50	0	38.8	ug/L	78		4		10	137	20
Phenol	50	0	12.9	ug/L	26		0		10	130	20
bis(2-Chloroethyl)ether	50	0	35.8	ug/L	72		1		29	141	20
2-Chlorophenol	50	0	31.8	ug/L	64		2		23	127	20
2-Methylphenol	50	0	24.3	ug/L	49		4		43	134	20
2,2-oxybis(1-Chloropropane)	50	0	33.4	ug/L	67		3		36	141	20
Acetophenone	50	0	38.5	ug/L	77		0		31	164	20
3+4-Methylphenols	50	0	22.7	ug/L	45		4		37	137	20
N-Nitroso-di-n-propylamine	50	0	35.4	ug/L	71		4		36	147	20
Hexachloroethane	50	0	30.5	ug/L	61		5		50	127	20
Nitrobenzene	50	0	35.3	ug/L	71		0		59	129	20
Isophorone	50	0	36.5	ug/L	73		0		39	146	20
2-Nitrophenol	50	0	38.7	ug/L	77		0		30	148	20
2,4-Dimethylphenol	50	0	34.9	ug/L	70		1		17	143	20
bis(2-Chloroethoxy)methane	50	0	36.7	ug/L	73		1		39	143	20
2,4-Dichlorophenol	50	0	36.7	ug/L	73		1		22	146	20
Naphthalene	50	0	35.3	ug/L	71		1		17	157	20
4-Chloroaniline	50	0	24.7	ug/L	49		18		10	95	20
Hexachlorobutadiene	50	0	33.2	ug/L	66		0		52	125	20
Caprolactam	50	0	10.0	ug/L	20		5		10	130	20
4-Chloro-3-methylphenol	50	0	35.0	ug/L	70		0		17	148	20
2-Methylnaphthalene	50	0	36.1	ug/L	72		1		38	146	20
Hexachlorocyclopentadiene	100	0	69.6	ug/L	70		1		20	153	20
2,4,6-Trichlorophenol	50	0	38.5	ug/L	77		1		64	129	20
2,4,5-Trichlorophenol	50	0	35.6	ug/L	71		3		64	131	20
1,1-Biphenyl	50	0	38.1	ug/L	76		0		38	154	20
2-Chloronaphthalene	50	0	38.6	ug/L	77		3		41	145	20
2-Nitroaniline	50	0	38.1	ug/L	76		5		39	151	20
Dimethylphthalate	50	0	39.1	ug/L	78		1		42	147	20
Acenaphthylene	50	0	38.4	ug/L	77		1		40	141	20
2,6-Dinitrotoluene	50	0	40.7	ug/L	81		1		43	148	20
3-Nitroaniline	50	0	25.7	ug/L	51		8		10	111	20
Acenaphthene	50	0	41.3	ug/L	83		1		37	146	20
2,4-Dinitrophenol	100	0	80.5	ug/L	81		4		14	167	20
4-Nitrophenol	100	0	27.4	ug/L	27		0		10	130	20
Dibenzofuran	50	0	37.8	ug/L	76		1		41	145	20
2,4-Dinitrotoluene	50	0	42.2	ug/L	84		0		56	142	20
Diethylphthalate	50	0	40.1	ug/L	80		0		41	148	20
4-Chlorophenyl-phenylether	50	0	38.1	ug/L	76		0		38	149	20
Fluorene	50	0	38.8	ug/L	78		1		39	144	20
4-Nitroaniline	50	0	38.9	ug/L	78		0		27	138	20
4,6-Dinitro-2-methylphenol	50	0	43.7	ug/L	87		2		32	175	20
N-Nitrosodiphenylamine	50	0	39.4	ug/L	79		0		40	150	20
4-Bromophenyl-phenylether	50	0	39.0	ug/L	78		1		42	151	20
Hexachlorobenzene	50	0	41.5	ug/L	83		1		60	129	20
Atrazine	50	0	45.4	ug/L	91		4		20	162	20
Pentachlorophenol	100	0	66.0	ug/L	66		5		35	147	20

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Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Phenanthrene	50	0	39.5	ug/L	79		0		40	147	20
Anthracene	50	0	39.8	ug/L	80		1		41	146	20
Carbazole	50	0	40.0	ug/L	80		1		37	154	20
Di-n-butylphthalate	50	0	43.0	ug/L	86		2		40	151	20
Fluoranthene	50	0	38.8	ug/L	78		3		42	146	20
Pyrene	50	0	46.7	ug/L	93		3		41	149	20
Butylbenzylphthalate	50	0	54.4	ug/L	109		1		39	155	20
3,3-Dichlorobenzidine	50	0	31.8	ug/L	64		13		10	114	20
Benzo(a)anthracene	50	0	39.9	ug/L	80		0		41	147	20
Chrysene	50	0	38.7	ug/L	77		3		44	144	20
bis(2-Ethylhexyl)phthalate	50	0	49.8	ug/L	100		1		33	160	20
Di-n-octyl phthalate	50	0	49.8	ug/L	100		0		36	158	20
Benzo(b)fluoranthene	50	0	39.1	ug/L	78		1		40	150	20
Benzo(k)fluoranthene	50	0	38.2	ug/L	76		1		40	147	20
Benzo(a)pyrene	50	0	38.5	ug/L	77		0		42	147	20
Indeno(1,2,3-cd)pyrene	50	0	52.0	ug/L	104		1		30	166	20
Dibenz(a,h)anthracene	50	0	52.2	ug/L	104		0		23	172	20
Benzo(g,h,i)perylene	50	0	51.9	ug/L	104		1		27	167	20
1,2,4,5-Tetrachlorobenzene	50	0	36.0	ug/L	72	*	1		89	102	20
1,4-Dioxane	50	0	15.7	ug/L	31	*	3		38	130	20
2,3,4,6-Tetrachlorophenol	50	0	39.6	ug/L	79	*	0		91	111	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: 8270E **DataFile:** BF133115.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB152460BS	Benzaldehyde	50	45.1	ug/L	90				21	131	
	Phenol	50	39.3	ug/L	79				66	118	
	bis(2-Chloroethyl)ether	50	41.9	ug/L	84				62	103	
	2-Chlorophenol	50	45.5	ug/L	91				70	117	
	2-Methylphenol	50	43.0	ug/L	86				69	109	
	2,2-oxybis(1-Chloropropane)	50	38.6	ug/L	77				52	103	
	Acetophenone	50	42.4	ug/L	85				60	104	
	3+4-Methylphenols	50	41.4	ug/L	83				67	106	
	N-Nitroso-di-n-propylamine	50	39.0	ug/L	78				57	107	
	Hexachloroethane	50	43.9	ug/L	88				60	105	
	Nitrobenzene	50	39.2	ug/L	78				58	106	
	Isophorone	50	39.1	ug/L	78				61	102	
	2-Nitrophenol	50	45.8	ug/L	92				70	115	
	2,4-Dimethylphenol	50	43.4	ug/L	87				67	130	
	bis(2-Chloroethoxy)methane	50	39.9	ug/L	80				58	109	
	2,4-Dichlorophenol	50	43.6	ug/L	87				66	115	
	Naphthalene	50	40.5	ug/L	81				64	107	
	4-Chloroaniline	50	27.9	ug/L	56				10	85	
	Hexachlorobutadiene	50	42.0	ug/L	84				56	102	
	Caprolactam	50	46.3	ug/L	93				47	129	
	4-Chloro-3-methylphenol	50	43.7	ug/L	87				65	114	
	2-Methylnaphthalene	50	39.9	ug/L	80				64	107	
	Hexachlorocyclopentadiene	100	90.3	ug/L	90				49	132	
	2,4,6-Trichlorophenol	50	41.5	ug/L	83				61	110	
	2,4,5-Trichlorophenol	50	39.1	ug/L	78				70	106	
	1,1-Biphenyl	50	40.1	ug/L	80				72	98	
	2-Chloronaphthalene	50	41.1	ug/L	82				59	106	
	2-Nitroaniline	50	39.2	ug/L	78				58	107	
	Dimethylphthalate	50	40.2	ug/L	80				64	103	
	Acenaphthylene	50	39.3	ug/L	79				65	108	
	2,6-Dinitrotoluene	50	41.2	ug/L	82				64	110	
	3-Nitroaniline	50	32.7	ug/L	65				28	100	
	Acenaphthene	50	43.7	ug/L	87				59	113	
	2,4-Dinitrophenol	100	100	ug/L	100				48	129	
	4-Nitrophenol	100	85.2	ug/L	85				54	119	
	Dibenzofuran	50	39.6	ug/L	79				65	106	
	2,4-Dinitrotoluene	50	43.8	ug/L	88				60	115	
	Diethylphthalate	50	39.7	ug/L	79				63	105	
	4-Chlorophenyl-phenylether	50	39.4	ug/L	79				61	104	
	Fluorene	50	40.2	ug/L	80				64	107	
	4-Nitroaniline	50	45.5	ug/L	91				57	103	
	4,6-Dinitro-2-methylphenol	50	48.1	ug/L	96				62	132	
	N-Nitrosodiphenylamine	50	40.0	ug/L	80				61	109	
	4-Bromophenyl-phenylether	50	40.6	ug/L	81				73	103	
	Hexachlorobenzene	50	43.9	ug/L	88				73	106	
	Atrazine	50	45.9	ug/L	92				52	134	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O2521

Client: GEI Consultants, Inc., P.C.

Analytical Method: 8270E **DataFile:** BF133115.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB152460BS	Pentachlorophenol	100	75.1	ug/L	75				65	112	
	Phenanthrene	50	40.0	ug/L	80				62	109	
	Anthracene	50	39.9	ug/L	80				65	110	
	Carbazole	50	41.5	ug/L	83				62	106	
	Di-n-butylphthalate	50	41.6	ug/L	83				64	106	
	Fluoranthene	50	41.0	ug/L	82				64	110	
	Pyrene	50	40.3	ug/L	81				71	103	
	Butylbenzylphthalate	50	47.8	ug/L	96				61	105	
	3,3-Dichlorobenzidine	50	42.7	ug/L	85				30	96	
	Benzo(a)anthracene	50	40.1	ug/L	80				62	107	
	Chrysene	50	39.6	ug/L	79				61	108	
	bis(2-Ethylhexyl)phthalate	50	43.1	ug/L	86				59	110	
	Di-n-octyl phthalate	50	46.9	ug/L	94				55	116	
	Benzo(b)fluoranthene	50	46.5	ug/L	93				64	111	
	Benzo(k)fluoranthene	50	41.8	ug/L	84				64	113	
	Benzo(a)pyrene	50	41.4	ug/L	83				72	131	
	Indeno(1,2,3-cd)pyrene	50	48.1	ug/L	96				72	105	
	Dibenz(a,h)anthracene	50	48.5	ug/L	97				63	117	
	Benzo(g,h,i)perylene	50	48.8	ug/L	98				61	120	
	1,2,4,5-Tetrachlorobenzene	50	40.2	ug/L	80				72	101	
	1,4-Dioxane	50	35.5	ug/L	71				38	125	
	2,3,4,6-Tetrachlorophenol	50	42.3	ug/L	85				63	116	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB152460BL

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

Lab File ID: BF133114.D Lab Sample ID: PB152460BL

Instrument ID: BNA_F Date Extracted: 04/27/2023

Matrix: (soil/water) Water Date Analyzed: 04/28/2023

Level: (low/med) LOW Time Analyzed: 10:16

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB152460BS	PB152460BS	BF133115.D	04/28/2023
GMW-7	O2521-07	BF133151.D	05/01/2023
GMW-7MS	O2521-09MS	BF133152.D	05/01/2023
GMW-7MSD	O2521-10MSD	BF133153.D	05/01/2023
FB	O2521-14	BF133161.D	05/01/2023
GMW-1	O2521-01	BF133182.D	05/02/2023
GMW-10	O2521-05	BF133183.D	05/02/2023
PZ-15	O2521-03	BF133184.D	05/02/2023

COMMENTS:

Form IV SV

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2521 SDG NO.: O2521

Lab File ID: BF132964.D DFTPP Injection Date: 04/21/2023

Instrument ID: BNA_F DFTPP Injection Time: 12:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.3
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	36.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	45.8
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26.3
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	13.8
442	Greater than 50% of mass 198	89.4
443	15.0 - 24.0% of mass 442	16.9 (18.9) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF132965.D	04/21/2023	13:11
SSTDICC005	SSTDICC005	BF132966.D	04/21/2023	13:42
SSTDICC010	SSTDICC010	BF132967.D	04/21/2023	14:12
SSTDICC020	SSTDICC020	BF132968.D	04/21/2023	14:43
SSTDICCC040	SSTDICCC040	BF132969.D	04/21/2023	15:15
SSTDICC050	SSTDICC050	BF132970.D	04/21/2023	15:47
SSTDICC060	SSTDICC060	BF132971.D	04/21/2023	16:19
SSTDICC080	SSTDICC080	BF132972.D	04/21/2023	16:50

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2521 SDG NO.: O2521

Lab File ID: BF133112.D DFTPP Injection Date: 04/28/2023

Instrument ID: BNA_F DFTPP Injection Time: 09:14

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.3
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	30.8
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	40.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.2
275	10.0 - 60.0% of mass 198	25.9
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	15.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.4 (18.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF133113.D	04/28/2023	09:45
PB152460BL	PB152460BL	BF133114.D	04/28/2023	10:16
PB152460BS	PB152460BS	BF133115.D	04/28/2023	10:47

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2521 SDG NO.: O2521

Lab File ID: BF133146.D DFTPP Injection Date: 05/01/2023

Instrument ID: BNA_F DFTPP Injection Time: 10:10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.9
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	34.4
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	45.9
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	26
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	14.3
442	Greater than 50% of mass 198	91.1
443	15.0 - 24.0% of mass 442	17 (18.7) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF133147.D	05/01/2023	10:41
GMW-7	O2521-07	BF133151.D	05/01/2023	12:47
GMW-7MS	O2521-09MS	BF133152.D	05/01/2023	13:18
GMW-7MSD	O2521-10MSD	BF133153.D	05/01/2023	13:49

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2521 SDG NO.: O2521

Lab File ID: BF133155.D DFTPP Injection Date: 05/01/2023

Instrument ID: BNA_F DFTPP Injection Time: 14:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.2
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	34.1
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	45.8
197	Less than 2.0% of mass 198	1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	25.4
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	13.2
442	Greater than 50% of mass 198	86
443	15.0 - 24.0% of mass 442	15.8 (18.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF133156.D	05/01/2023	15:25
FB	O2521-14	BF133161.D	05/01/2023	18:06

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM SAS No.: O2521 SDG NO.: O2521

Lab File ID: BF133178.D DFTPP Injection Date: 05/02/2023

Instrument ID: BNA_F DFTPP Injection Time: 09:23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	35.9
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	46.9
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	25.6
365	Greater than 1% of mass 198	2.9
441	Present, but less than mass 443	13
442	Greater than 50% of mass 198	83.8
443	15.0 - 24.0% of mass 442	16.1 (19.2) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF133179.D	05/02/2023	09:54
GMW-1	O2521-01	BF133182.D	05/02/2023	11:39
GMW-10	O2521-05	BF133183.D	05/02/2023	12:11
PZ-15	O2521-03	BF133184.D	05/02/2023	12:42

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/28/2023

Lab File ID: BF133113.D Time Analyzed: 09:45

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	198535	6.739	770653	8.02	402568	9.77
	UPPER LIMIT	397070	7.239	1541310	8.522	805136	10.274
	LOWER LIMIT	99267.5	6.239	385327	7.522	201284	9.274
	EPA SAMPLE NO.						
01	PB152460BL	222354	6.73	909738	8.02	497178	9.77
02	PB152460BS	195818	6.74	817481	8.02	432093	9.78

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/28/2023

Lab File ID: BF133113.D Time Analyzed: 09:45

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	728942	11.257	481262	13.892	419069	15.309
	UPPER LIMIT	1457880	11.757	962524	14.392	838138	15.809
	LOWER LIMIT	364471	10.757	240631	13.392	209535	14.809
	EPA SAMPLE NO.						
01	PB152460BL	894791	11.25	645193	13.89	589322	15.31
02	PB152460BS	762637	11.26	503022	13.89	426531	15.31

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/28/2023

Lab File ID: BF133124.D Time Analyzed: 16:17

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	169530	6.739	651406	8.02	331291	9.78
	UPPER LIMIT	339060	7.239	1302810	8.522	662582	10.275
	LOWER LIMIT	84765	6.239	325703	7.522	165646	9.275
	EPA SAMPLE NO.						
01	MW-4MSD	183608	6.73	751779	8.02	381525	9.78
02	MW-4MS	190366	6.73	772909	8.02	393106	9.78

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/28/2023

Lab File ID: BF133124.D Time Analyzed: 16:17

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	609324	11.251	433500	13.892	385479	15.309
	UPPER LIMIT	1218650	11.751	867000	14.392	770958	15.809
	LOWER LIMIT	304662	10.751	216750	13.392	192740	14.809
	EPA SAMPLE NO.						
01	MW-4MSD	684496	11.25	425360	13.89	366457	15.30
02	MW-4MS	700777	11.25	454277	13.89	386766	15.30

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2023

Lab File ID: BF133147.D Time Analyzed: 10:41

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	217083	6.733	848696	8.02	437359	9.77
	UPPER LIMIT	434166	7.233	1697390	8.516	874718	10.269
	LOWER LIMIT	108542	6.233	424348	7.516	218680	9.269
	EPA SAMPLE NO.						
01	GMW-7MS	203700	6.73	837623	8.02	424855	9.77
02	GMW-7MSD	195768	6.73	779426	8.02	408781	9.77
03	GMW-7	186758	6.73	760166	8.02	403432	9.76

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2023

Lab File ID: BF133147.D Time Analyzed: 10:41

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	726398	11.251	488634	13.892	431751	15.304
	UPPER LIMIT	1452800	11.751	977268	14.392	863502	15.804
	LOWER LIMIT	363199	10.751	244317	13.392	215876	14.804
	EPA SAMPLE NO.						
01	GMW-7MS	739323	11.25	372991	13.89	387375	15.30
02	GMW-7MSD	712325	11.25	379662	13.89	380330	15.30
03	GMW-7	715597	11.25	392041	13.88	351902	15.30

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2023

Lab File ID: BF133156.D Time Analyzed: 15:25

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	201641	6.734	797320	8.02	409305	9.77
	UPPER LIMIT	403282	7.234	1594640	8.516	818610	10.269
	LOWER LIMIT	100821	6.234	398660	7.516	204653	9.269
	EPA SAMPLE NO.						
01	FB	181752	6.73	744647	8.01	393741	9.76

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2023

Lab File ID: BF133156.D Time Analyzed: 15:25

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	709193	11.251	470586	13.886	409938	15.304
	UPPER LIMIT	1418390	11.751	941172	14.386	819876	15.804
	LOWER LIMIT	354597	10.751	235293	13.386	204969	14.804
	EPA SAMPLE NO.						
01	FB	715460	11.25	386608	13.88	370078	15.30

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/02/2023

Lab File ID: BF133179.D Time Analyzed: 09:54

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	210801	6.734	810149	8.02	408451	9.77
	UPPER LIMIT	421602	7.234	1620300	8.516	816902	10.269
	LOWER LIMIT	105401	6.234	405075	7.516	204226	9.269
	EPA SAMPLE NO.						
01	GMW-1	217825	6.73	867706	8.02	448217	9.77
02	PZ-15	202539	6.73	828276	8.01	431004	9.76
03	GMW-10	222157	6.73	884085	8.02	465386	9.77

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG NO.: O2521

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/02/2023

Lab File ID: BF133179.D Time Analyzed: 09:54

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	739807	11.251	524855	13.892	463126	15.309
	UPPER LIMIT	1479610	11.751	1049710	14.392	926252	15.809
	LOWER LIMIT	369904	10.751	262428	13.392	231563	14.809
	EPA SAMPLE NO.						
01	GMW-1	782429	11.25	465239	13.89	390223	15.30
02	PZ-15	775776	11.25	487304	13.88	371572	15.30
03	GMW-10	807304	11.25	532323	13.88	408265	15.30

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152460BL	SDG No.:	O2521
Lab Sample ID:	PB152460BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133114.D	1	04/27/23 10:50	04/28/23 10:16	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152460BL	SDG No.:	O2521
Lab Sample ID:	PB152460BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133114.D	1	04/27/23 10:50	04/28/23 10:16	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152460BL	SDG No.:	O2521
Lab Sample ID:	PB152460BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133114.D	1	04/27/23 10:50	04/28/23 10:16	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	116		10 - 139	77%	SPK: 150
13127-88-3	Phenol-d6	117		10 - 134	78%	SPK: 150
4165-60-0	Nitrobenzene-d5	73.6		49 - 133	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.7		52 - 132	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	114		45 - 141	76%	SPK: 150
1718-51-0	Terphenyl-d14	69.5		45 - 142	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	222000	6.734			
1146-65-2	Naphthalene-d8	910000	8.022			
15067-26-2	Acenaphthene-d10	497000	9.769			
1517-22-2	Phenanthrene-d10	895000	11.251			
1719-03-5	Chrysene-d12	645000	13.886			
1520-96-3	Perylene-d12	589000	15.31			
TENTATIVE IDENTIFIED COMPOUNDS						
001825-64-5	Isopropyl alcohol, TMS derivative	2.50	J		2.12	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	44.2	A		4.95	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152460BS	SDG No.:	O2521
Lab Sample ID:	PB152460BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133115.D	1	04/27/23 10:50	04/28/23 10:47	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	45.1		3.30	10.0	ug/L
108-95-2	Phenol	39.3		1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.9		1.70	5.00	ug/L
95-57-8	2-Chlorophenol	45.5		1.40	5.00	ug/L
95-48-7	2-Methylphenol	43.0		2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	38.6		2.30	5.00	ug/L
98-86-2	Acetophenone	42.4		1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	41.4		2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	39.0		2.00	2.50	ug/L
67-72-1	Hexachloroethane	43.9		1.60	5.00	ug/L
98-95-3	Nitrobenzene	39.2		1.70	5.00	ug/L
78-59-1	Isophorone	39.1		1.70	5.00	ug/L
88-75-5	2-Nitrophenol	45.8		2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	43.4		3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	39.9		2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	43.6		1.70	5.00	ug/L
91-20-3	Naphthalene	40.5		1.70	5.00	ug/L
106-47-8	4-Chloroaniline	27.9		2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	42.0		1.90	5.00	ug/L
105-60-2	Caprolactam	46.3		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	43.7		1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	39.9		2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	90.3	E	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	41.5		1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	39.1		1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	40.1		1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	41.1		1.60	5.00	ug/L
88-74-4	2-Nitroaniline	39.2		2.40	5.00	ug/L
131-11-3	Dimethylphthalate	40.2		1.90	5.00	ug/L
208-96-8	Acenaphthylene	39.3		2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	41.2		2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152460BS	SDG No.:	O2521
Lab Sample ID:	PB152460BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133115.D	1	04/27/23 10:50	04/28/23 10:47	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	32.7		2.40	5.00	ug/L
83-32-9	Acenaphthene	43.7		1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	100	E	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	85.2	E	2.80	10.0	ug/L
132-64-9	Dibenzofuran	39.6		1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	43.8		2.50	5.00	ug/L
84-66-2	Diethylphthalate	39.7		2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	39.4		2.20	5.00	ug/L
86-73-7	Fluorene	40.2		2.00	5.00	ug/L
100-01-6	4-Nitroaniline	45.5		2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.1		1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	40.0		2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	40.6		2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	43.9		1.90	5.00	ug/L
1912-24-9	Atrazine	45.9		3.50	5.00	ug/L
87-86-5	Pentachlorophenol	75.1		2.60	10.0	ug/L
85-01-8	Phenanthrene	40.0		2.00	5.00	ug/L
120-12-7	Anthracene	39.9		2.30	5.00	ug/L
86-74-8	Carbazole	41.5		1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	41.6		2.40	5.00	ug/L
206-44-0	Fluoranthene	41.0		2.10	5.00	ug/L
129-00-0	Pyrene	40.3		1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	47.8		2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	42.7		5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	40.1		1.50	5.00	ug/L
218-01-9	Chrysene	39.6		1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	43.1		2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	46.9		3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	46.5		1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	41.8		1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	41.4		2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	48.1		2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	48.5		2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	
Project:	Ferry Point	Date Received:	
Client Sample ID:	PB152460BS	SDG No.:	O2521
Lab Sample ID:	PB152460BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133115.D	1	04/27/23 10:50	04/28/23 10:47	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	48.8		1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	40.2		2.10	5.00	ug/L
123-91-1	1,4-Dioxane	35.5		2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	42.3		1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	125		10 - 139	83%	SPK: 150
13127-88-3	Phenol-d6	121		10 - 134	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.6		49 - 133	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.6		52 - 132	82%	SPK: 100
118-79-6	2,4,6-Tribromophenol	123		45 - 141	82%	SPK: 150
1718-51-0	Terphenyl-d14	82.2		45 - 142	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	196000	6.74			
1146-65-2	Naphthalene-d8	817000	8.022			
15067-26-2	Acenaphthene-d10	432000	9.775			
1517-22-2	Phenanthrene-d10	763000	11.257			
1719-03-5	Chrysene-d12	503000	13.892			
1520-96-3	Perylene-d12	427000	15.31			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MS	SDG No.:	O2521
Lab Sample ID:	O2521-09MS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133152.D	1	04/27/23 10:50	05/01/23 13:18	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	40.7		3.30	10.0	ug/L
108-95-2	Phenol	13.2		1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	36.7		1.70	5.00	ug/L
95-57-8	2-Chlorophenol	32.6		1.40	5.00	ug/L
95-48-7	2-Methylphenol	25.7		2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	34.5		2.30	5.00	ug/L
98-86-2	Acetophenone	38.5		1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	23.3		2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	36.9		2.00	2.50	ug/L
67-72-1	Hexachloroethane	32.0		1.60	5.00	ug/L
98-95-3	Nitrobenzene	35.3		1.70	5.00	ug/L
78-59-1	Isophorone	36.4		1.70	5.00	ug/L
88-75-5	2-Nitrophenol	38.6		2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	34.7		3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	37.2		2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	36.2		1.70	5.00	ug/L
91-20-3	Naphthalene	35.0		1.70	5.00	ug/L
106-47-8	4-Chloroaniline	20.3		2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	32.8		1.90	5.00	ug/L
105-60-2	Caprolactam	9.70	J	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	35.2		1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	35.3		2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	69.2		5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	39.2		1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	36.4		1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	38.1		1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	39.3		1.60	5.00	ug/L
88-74-4	2-Nitroaniline	40.1		2.40	5.00	ug/L
131-11-3	Dimethylphthalate	39.6		1.90	5.00	ug/L
208-96-8	Acenaphthylene	38.1		2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	40.9		2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MS	SDG No.:	O2521
Lab Sample ID:	O2521-09MS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133152.D	1	04/27/23 10:50	05/01/23 13:18	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	23.4		2.40	5.00	ug/L
83-32-9	Acenaphthene	42.2		1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	77.6		5.50	10.0	ug/L
100-02-7	4-Nitrophenol	27.2		2.80	10.0	ug/L
132-64-9	Dibenzofuran	38.5		1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	42.1		2.50	5.00	ug/L
84-66-2	Diethylphthalate	40.2		2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	38.1		2.20	5.00	ug/L
86-73-7	Fluorene	38.6		2.00	5.00	ug/L
100-01-6	4-Nitroaniline	39.1		2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	42.6		1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	39.3		2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	39.4		2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	41.0		1.90	5.00	ug/L
1912-24-9	Atrazine	43.6		3.50	5.00	ug/L
87-86-5	Pentachlorophenol	63.2		2.60	10.0	ug/L
85-01-8	Phenanthrene	39.4		2.00	5.00	ug/L
120-12-7	Anthracene	39.5		2.30	5.00	ug/L
86-74-8	Carbazole	39.4		1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	42.2		2.40	5.00	ug/L
206-44-0	Fluoranthene	37.9		2.10	5.00	ug/L
129-00-0	Pyrene	47.8		1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	54.0		2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	27.9		5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	40.1		1.50	5.00	ug/L
218-01-9	Chrysene	39.4		1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	50.4		2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	50.1		3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	38.7		1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	38.6		1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	38.3		2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	51.4		2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	52.0		2.00	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MS	SDG No.:	O2521
Lab Sample ID:	O2521-09MS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133152.D	1	04/27/23 10:50	05/01/23 13:18	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	51.4		1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	36.5		2.10	5.00	ug/L
123-91-1	1,4-Dioxane	16.2		2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	39.3		1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	51.8		10 - 139	35%	SPK: 150
13127-88-3	Phenol-d6	33.1		10 - 134	22%	SPK: 150
4165-60-0	Nitrobenzene-d5	70.2		49 - 133	70%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.1		52 - 132	74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	108		45 - 141	72%	SPK: 150
1718-51-0	Terphenyl-d14	93.7		45 - 142	94%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	204000	6.728			
1146-65-2	Naphthalene-d8	838000	8.016			
15067-26-2	Acenaphthene-d10	425000	9.769			
1517-22-2	Phenanthrene-d10	739000	11.251			
1719-03-5	Chrysene-d12	373000	13.886			
1520-96-3	Perylene-d12	387000	15.304			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MSD	SDG No.:	O2521
Lab Sample ID:	O2521-10MSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133153.D	1	04/27/23 10:50	05/01/23 13:49	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	38.8		3.30	10.0	ug/L
108-95-2	Phenol	12.9		1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	35.8		1.70	5.00	ug/L
95-57-8	2-Chlorophenol	31.8		1.40	5.00	ug/L
95-48-7	2-Methylphenol	24.3		2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	33.4		2.30	5.00	ug/L
98-86-2	Acetophenone	38.5		1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	22.7		2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	35.4		2.00	2.50	ug/L
67-72-1	Hexachloroethane	30.5		1.60	5.00	ug/L
98-95-3	Nitrobenzene	35.3		1.70	5.00	ug/L
78-59-1	Isophorone	36.5		1.70	5.00	ug/L
88-75-5	2-Nitrophenol	38.7		2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	34.9		3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	36.7		2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	36.7		1.70	5.00	ug/L
91-20-3	Naphthalene	35.3		1.70	5.00	ug/L
106-47-8	4-Chloroaniline	24.7		2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	33.2		1.90	5.00	ug/L
105-60-2	Caprolactam	10.0		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	35.0		1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	36.1		2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	69.6		5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	38.5		1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	35.6		1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	38.1		1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	38.6		1.60	5.00	ug/L
88-74-4	2-Nitroaniline	38.1		2.40	5.00	ug/L
131-11-3	Dimethylphthalate	39.1		1.90	5.00	ug/L
208-96-8	Acenaphthylene	38.4		2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	40.7		2.10	5.00	ug/L

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MSD	SDG No.:	O2521
Lab Sample ID:	O2521-10MSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133153.D	1	04/27/23 10:50	05/01/23 13:49	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	25.7		2.40	5.00	ug/L
83-32-9	Acenaphthene	41.3		1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	80.5	E	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	27.4		2.80	10.0	ug/L
132-64-9	Dibenzofuran	37.8		1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	42.2		2.50	5.00	ug/L
84-66-2	Diethylphthalate	40.1		2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	38.1		2.20	5.00	ug/L
86-73-7	Fluorene	38.8		2.00	5.00	ug/L
100-01-6	4-Nitroaniline	38.9		2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	43.7		1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	39.4		2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	39.0		2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	41.5		1.90	5.00	ug/L
1912-24-9	Atrazine	45.4		3.50	5.00	ug/L
87-86-5	Pentachlorophenol	66.0		2.60	10.0	ug/L
85-01-8	Phenanthrene	39.5		2.00	5.00	ug/L
120-12-7	Anthracene	39.8		2.30	5.00	ug/L
86-74-8	Carbazole	40.0		1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	43.0		2.40	5.00	ug/L
206-44-0	Fluoranthene	38.8		2.10	5.00	ug/L
129-00-0	Pyrene	46.7		1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	54.4		2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	31.8		5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	39.9		1.50	5.00	ug/L
218-01-9	Chrysene	38.7		1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	49.8		2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	49.8		3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	39.1		1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	38.2		1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	38.5		2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	52.0		2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	52.2		2.00	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7MSD	SDG No.:	O2521
Lab Sample ID:	O2521-10MSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF133153.D	1	04/27/23 10:50	05/01/23 13:49	PB152460

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	51.9		1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	36.0		2.10	5.00	ug/L
123-91-1	1,4-Dioxane	15.7		2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	39.6		1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	49.7		10 - 139	33%	SPK: 150
13127-88-3	Phenol-d6	31.9		10 - 134	21%	SPK: 150
4165-60-0	Nitrobenzene-d5	70.1		49 - 133	70%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.2		52 - 132	74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	110		45 - 141	74%	SPK: 150
1718-51-0	Terphenyl-d14	92.5		45 - 142	92%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	196000	6.728			
1146-65-2	Naphthalene-d8	779000	8.016			
15067-26-2	Acenaphthene-d10	409000	9.769			
1517-22-2	Phenanthrene-d10	712000	11.251			
1719-03-5	Chrysene-d12	380000	13.886			
1520-96-3	Perylene-d12	380000	15.304			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF042123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Sat Apr 22 03:30:56 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BF132965.D 5 =BF132966.D 10 =BF132967.D 20 =BF132968.D 40 =BF132969.D 50 =BF132970.D 60 =BF132971.D 80 =BF1329
72.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane	0.714	0.644	0.646	0.612	0.569	0.575	0.539	0.614		9.67
3)		Pyridine	1.675	1.643	1.752	1.673	1.573	1.614	1.488	1.631		5.17
4)		n-Nitrosodimet...	0.933	0.888	0.890	0.847	0.789	0.804	0.765	0.845		7.30
5)	S	2-Fluorophenol	1.587	1.456	1.437	1.322	1.200	1.180	1.085	1.324		13.53
6)		Aniline	2.341	2.241	2.314	2.197	2.008	2.006	1.709	2.117		10.60
7)	S	Phenol-d6	1.918	1.800	1.795	1.629	1.504	1.492	1.366	1.643		12.25
8)		2-Chlorophenol	1.575	1.485	1.479	1.354	1.225	1.208	1.084	1.344		13.31
9)		Benzaldehyde		1.115	1.002	0.762	0.683	0.640	0.545	0.791		28.00
10)	C	Phenol	2.117	1.981	1.990	1.822	1.664	1.643	1.474	1.813		12.70
11)		bis(2-Chloroet...	1.563	1.433	1.459	1.366	1.265	1.252	1.185	1.360		9.85
12)		1,3-Dichlorobe...	1.682	1.566	1.562	1.426	1.310	1.287	1.171	1.429		12.82
13)	C	1,4-Dichlorobe...	1.706	1.570	1.567	1.453	1.297	1.279	1.154	1.432		13.71
14)		1,2-Dichlorobe...	1.599	1.477	1.491	1.324	1.187	1.160	1.007	1.321		16.16
15)		Benzyl Alcohol	1.293	1.244	1.263	1.180	1.060	1.020	0.886	1.135		13.27
16)		2,2'-oxybis(1-...	2.695	2.537	2.568	2.379	2.181	2.176	2.004	2.363		10.63
17)		2-Methylphenol	1.399	1.313	1.314	1.238	1.135	1.140	1.078	1.231		9.56
18)		Hexachloroethane	0.562	0.541	0.544	0.500	0.465	0.454	0.419	0.498		10.80
19)	P	n-Nitroso-di-n...	1.129	1.150	1.087	1.086	1.001	0.913	0.933	0.885	1.023	10.15
20)		3+4-Methylphenols		1.803	1.697	1.649	1.438	1.266	1.209	1.085	1.450	18.90
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.563	0.525	0.502	0.454	0.411	0.407	0.381	0.463	14.72
23)	S	Nitrobenzene-d5		0.407	0.381	0.389	0.379	0.350	0.356	0.332	0.371	6.88
24)		Nitrobenzene		0.411	0.391	0.396	0.382	0.359	0.357	0.331	0.375	7.29
25)		Isophorone		0.754	0.706	0.717	0.710	0.665	0.696	0.677	0.704	4.09
26)	C	2-Nitrophenol		0.172	0.172	0.187	0.192	0.181	0.186	0.179	0.181	4.15
27)		2,4-Dimethylph...		0.344	0.320	0.323	0.319	0.289	0.296	0.284	0.311	6.98
28)		bis(2-Chloroet...		0.470	0.437	0.434	0.420	0.391	0.391	0.370	0.416	8.26
29)	C	2,4-Dichloroph...		0.306	0.291	0.299	0.292	0.268	0.271	0.252	0.283	6.83
30)		1,2,4-Trichlor...		0.335	0.305	0.313	0.295	0.273	0.276	0.253	0.293	9.43
31)		Naphthalene		1.196	1.094	1.079	1.011	0.898	0.910	0.811	1.000	13.40
32)		Benzoic acid		0.144	0.152	0.181	0.211	0.214	0.224	0.217	0.192	17.13
33)		4-Chloroaniline		0.456	0.442	0.444	0.402	0.367	0.374	0.341	0.404	11.08
34)	C	Hexachlorobuta...		0.182	0.174	0.172	0.164	0.150	0.153	0.142	0.162	9.08
35)		Caprolactam		0.096	0.093	0.097	0.100	0.092	0.097	0.092	0.095	3.23
36)	C	4-Chloro-3-met...		0.330	0.317	0.316	0.312	0.284	0.298	0.278	0.305	6.30
37)		2-Methylnaphth...		0.823	0.760	0.739	0.689	0.614	0.616	0.545	0.684	14.25
38)		1-Methylnaphth...		0.776	0.702	0.692	0.641	0.578	0.575	0.513	0.640	14.21

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF042123.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.611	0.578	0.583	0.541	0.495	0.495	0.460	0.538	10.41
41)	P	Hexachlorocycl...	0.286	0.296	0.334	0.334	0.313	0.324	0.307	0.314	5.86
42)	S	2,4,6-Tribromo...	0.211	0.203	0.214	0.208	0.191	0.197	0.184	0.201	5.42
43)	C	2,4,6-Trichlor...	0.396	0.372	0.396	0.381	0.353	0.363	0.343	0.372	5.54
44)		2,4,5-Trichlor...	0.464	0.437	0.452	0.444	0.411	0.418	0.384	0.430	6.33
45)	S	2-Fluorobiphenyl		1.476	1.430	1.210	1.081	1.054	0.922	1.195	18.41
46)		1,1'-Biphenyl	1.887	1.771	1.752	1.598	1.440	1.390	1.263	1.586	14.48
47)		2-Chloronaphth...	1.344	1.228	1.260	1.168	1.074	1.073	0.979	1.161	10.91
48)		2-Nitroaniline	0.373	0.379	0.407	0.402	0.372	0.386	0.366	0.384	4.04
49)		Acenaphthylene	2.146	2.002	2.049	1.893	1.709	1.681	1.504	1.855	12.45
50)		Dimethylphthalate	1.577	1.470	1.496	1.409	1.289	1.296	1.226	1.395	9.19
51)		2,6-Dinitrotol...	0.320	0.312	0.332	0.321	0.304	0.312	0.295	0.314	3.89
52)	C	Acenaphthene	1.448	1.334	1.352	1.258	1.138	1.139	1.026	1.242	11.90
53)		3-Nitroaniline	0.372	0.372	0.394	0.391	0.365	0.371	0.348	0.373	4.23
54)	P	2,4-Dinitrophenol	0.116	0.125	0.157	0.175	0.172	0.180	0.179	0.158	16.93
55)		Dibenzofuran	2.046	1.864	1.856	1.699	1.535	1.516	1.346	1.695	14.39
56)	P	4-Nitrophenol	0.282	0.281	0.303	0.309	0.286	0.285	0.278	0.289	4.10
57)		2,4-Dinitrotol...	0.408	0.398	0.428	0.424	0.389	0.397	0.358	0.400	5.84
58)		Fluorene	1.579	1.434	1.383	1.209	1.094	1.055	0.937	1.241	18.65
59)		2,3,4,6-Tetrac...	0.369	0.342	0.356	0.338	0.316	0.320	0.293	0.333	7.75
60)		Diethylphthalate	1.503	1.395	1.422	1.334	1.224	1.221	1.121	1.317	10.20
61)		4-Chlorophenyl...	0.744	0.689	0.688	0.596	0.535	0.523	0.459	0.605	17.34
62)		4-Nitroaniline	0.351	0.350	0.377	0.347	0.322	0.338	0.316	0.343	5.93
63)		Azobenzene	1.605	1.502	1.513	1.404	1.294	1.284	1.165	1.395	11.15
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.094	0.105	0.125	0.134	0.128	0.131	0.131	0.121	12.81
66)	c	n-Nitrosodiphe...	0.746	0.703	0.704	0.645	0.598	0.597	0.548	0.649	11.04
67)		4-Bromophenyl-...	0.237	0.226	0.229	0.219	0.205	0.209	0.193	0.217	6.98
68)		Hexachlorobenzene	0.236	0.231	0.236	0.225	0.210	0.215	0.203	0.222	5.95
69)		Atrazine	0.203	0.199	0.197	0.194	0.174	0.177	0.164	0.187	8.05
70)	C	Pentachlorophenol	0.150	0.154	0.164	0.170	0.156	0.161	0.153	0.158	4.43
71)		Phenanthrene	1.314	1.187	1.153	1.062	0.972	0.972	0.865	1.075	14.28
72)		Anthracene	1.314	1.214	1.194	1.099	0.992	0.999	0.888	1.100	13.59
73)		Carbazole	1.120	1.068	1.044	0.991	0.896	0.919	0.819	0.980	10.90
74)		Di-n-butylphth...	1.186	1.160	1.191	1.152	1.057	1.046	0.968	1.109	7.68
75)	C	Fluoranthene	1.251	1.164	1.164	1.094	0.992	0.982	0.904	1.079	11.46
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.313	0.374	0.425	0.340	0.288	0.289		0.338	15.86
78)		Pyrene	1.801	1.685	1.720	1.762	1.659	1.722	1.651	1.714	3.18
79)	S	Terphenyl-d14	1.290	1.208	1.208	1.173	1.078	1.119	1.041	1.160	7.41
80)		Butylbenzylpht...	0.487	0.516	0.592	0.665	0.639	0.679	0.671	0.607	12.86
81)		Benzo(a)anthra...	1.506	1.401	1.466	1.417	1.298	1.305	1.234	1.375	7.18
82)		3,3'-Dichlorob...	0.375	0.382	0.423	0.411	0.374	0.382	0.312	0.380	9.23
83)		Chrysene	1.501	1.402	1.426	1.413	1.302	1.322	1.259	1.375	6.10
84)		Bis(2-ethylhex...	0.727	0.743	0.806	0.817	0.759	0.768	0.714	0.762	5.05
85)	c	Di-n-octyl pht...	1.065	1.096	1.296	1.351	1.273	1.319	1.298	1.242	9.14

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF042123.M

86) I	Perylene-d12	----------ISTD----------								
87)	Indeno(1,2,3-c...	1.036	0.939	1.052	1.207	1.180	1.278	1.271	1.138	11.41
88)	Benzo(b)fluora...	1.321	1.257	1.295	1.334	1.247	1.223	1.230	1.272	3.48
89)	Benzo(k)fluora...	1.317	1.332	1.424	1.289	1.177	1.219	1.071	1.261	9.17
90) C	Benzo(a)pyrene	1.181	1.145	1.203	1.202	1.127	1.150	1.099	1.158	3.37
91)	Dibenzo(a,h)an...	0.856	0.786	0.885	1.022	0.980	1.065	1.047	0.949	11.27
92)	Benzo(g,h,i)pe...	0.827	0.732	0.853	1.005	0.989	1.077	1.075	0.937	14.29

(#) = Out of Range

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: BNA_F Calibration Date/Time: 04/28/2023 09:45

Lab File ID: BF133113.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.324	1.213		-8.4	
Benzaldehyde	0.791	0.737		-6.8	
Phenol-d6	1.643	1.516		-7.7	
Phenol	1.813	1.635		-9.8	20.0
bis(2-Chloroethyl)ether	1.360	1.219		-10.4	
2-Chlorophenol	1.344	1.249		-7.1	
2-Methylphenol	1.231	1.193		-3.1	
2,2-oxybis(1-Chloropropane)	2.363	1.957		-17.2	
Acetophenone	0.463	0.435		-6.0	
3+4-Methylphenols	1.450	1.373		-5.3	
n-Nitroso-di-n-propylamine	1.023	0.877	0.050	-14.3	
Nitrobenzene-d5	0.371	0.349		-5.9	
Hexachloroethane	0.498	0.459		-7.8	
Nitrobenzene	0.375	0.352		-6.1	
Isophorone	0.704	0.647		-8.1	
2-Nitrophenol	0.181	0.188		3.9	20.0
2,4-Dimethylphenol	0.311	0.299		-3.9	
bis(2-Chloroethoxy)methane	0.416	0.373		-10.3	
2,4-Dichlorophenol	0.283	0.276		-2.5	20.0
Naphthalene	1.000	0.944		-5.6	
4-Chloroaniline	0.404	0.411		1.7	
Hexachlorobutadiene	0.162	0.153		-5.6	20.0
Caprolactam	0.095	0.096		1.1	
4-Chloro-3-methylphenol	0.305	0.300		-1.6	20.0
2-Methylnaphthalene	0.684	0.643		-6.0	
Hexachlorocyclopentadiene	0.314	0.293	0.050	-6.7	
2,4,6-Trichlorophenol	0.372	0.357		-4.0	20.0
2-Fluorobiphenyl	1.195	1.143		-4.4	
2,4,5-Trichlorophenol	0.430	0.417		-3.0	
1,1-Biphenyl	1.586	1.462		-7.8	
2-Chloronaphthalene	1.161	1.082		-6.8	
2-Nitroaniline	0.384	0.363		-5.5	
Dimethylphthalate	1.395	1.316		-5.7	
Acenaphthylene	1.855	1.739		-6.3	
2,6-Dinitrotoluene	0.314	0.309		-1.6	
3-Nitroaniline	0.373	0.366		-1.9	
Acenaphthene	1.242	1.177		-5.2	20.0
2,4-Dinitrophenol	0.158	0.170	0.050	7.6	
4-Nitrophenol	0.289	0.275	0.050	-4.8	
Dibenzofuran	1.695	1.575		-7.1	
2,4-Dinitrotoluene	0.400	0.408		2.0	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: BNA_F Calibration Date/Time: 04/28/2023 09:45

Lab File ID: BF133113.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.317	1.232		-6.5	
4-Chlorophenyl-phenylether	0.605	0.570		-5.8	
Fluorene	1.241	1.176		-5.2	
4-Nitroaniline	0.343	0.363		5.8	
4,6-Dinitro-2-methylphenol	0.121	0.133		9.9	
n-Nitrosodiphenylamine	0.649	0.598		-7.9	20.0
2,4,6-Tribromophenol	0.201	0.201		0.0	
4-Bromophenyl-phenylether	0.217	0.197		-9.2	
Hexachlorobenzene	0.222	0.210		-5.4	
Atrazine	0.187	0.182		-2.7	
Pentachlorophenol	0.158	0.150		-5.1	20.0
Phenanthrene	1.075	0.979		-8.9	
Anthracene	1.100	1.001		-9.0	
Carbazole	0.980	0.916		-6.5	
Di-n-butylphthalate	1.109	1.047		-5.6	
Fluoranthene	1.079	1.007		-6.7	20.0
Pyrene	1.714	1.572		-8.3	
Terphenyl-d14	1.160	1.041		-10.3	
Butylbenzylphthalate	0.607	0.658		8.4	
3,3-Dichlorobenzidine	0.380	0.409		7.6	
Benzo(a)anthracene	1.375	1.249		-9.2	
Chrysene	1.375	1.254		-8.8	
Bis(2-ethylhexyl)phthalate	0.762	0.755		-0.9	
Di-n-octyl phthalate	1.242	1.288		3.7	20.0
Benzo(b)fluoranthene	1.272	1.240		-2.5	
Benzo(k)fluoranthene	1.261	1.126		-10.7	
Benzo(a)pyrene	1.158	1.084		-6.4	20.0
Indeno(1,2,3-cd)pyrene	1.138	1.146		0.7	
Dibenzo(a,h)anthracene	0.949	0.947		-0.2	
Benzo(g,h,i)perylene	0.937	0.954		1.8	
1,2,4,5-Tetrachlorobenzene	0.538	0.499		-7.2	
1,4-Dioxane	0.614	0.550		-10.4	20.0
2,3,4,6-Tetrachlorophenol	0.333	0.310		-6.9	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: BNA_F Calibration Date/Time: 05/01/2023 10:41

Lab File ID: BF133147.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.324	1.247		-5.8	
Benzaldehyde	0.791	0.752		-4.9	
Phenol-d6	1.643	1.550		-5.7	
Phenol	1.813	1.675		-7.6	20.0
bis(2-Chloroethyl)ether	1.360	1.268		-6.8	
2-Chlorophenol	1.344	1.290		-4.0	
2-Methylphenol	1.231	1.195		-2.9	
2,2-oxybis(1-Chloropropane)	2.363	2.033		-14.0	
Acetophenone	0.463	0.431		-6.9	
3+4-Methylphenols	1.450	1.342		-7.4	
n-Nitroso-di-n-propylamine	1.023	0.874	0.050	-14.6	
Nitrobenzene-d5	0.371	0.348		-6.2	
Hexachloroethane	0.498	0.469		-5.8	
Nitrobenzene	0.375	0.354		-5.6	
Isophorone	0.704	0.652		-7.4	
2-Nitrophenol	0.181	0.188		3.9	20.0
2,4-Dimethylphenol	0.311	0.301		-3.2	
bis(2-Chloroethoxy)methane	0.416	0.383		-7.9	
2,4-Dichlorophenol	0.283	0.275		-2.8	20.0
Naphthalene	1.000	0.943		-5.7	
4-Chloroaniline	0.404	0.412		2.0	
Hexachlorobutadiene	0.162	0.152		-6.2	20.0
Caprolactam	0.095	0.096		1.1	
4-Chloro-3-methylphenol	0.305	0.300		-1.6	20.0
2-Methylnaphthalene	0.684	0.638		-6.7	
Hexachlorocyclopentadiene	0.314	0.290	0.050	-7.6	
2,4,6-Trichlorophenol	0.372	0.353		-5.1	20.0
2-Fluorobiphenyl	1.195	1.110		-7.1	
2,4,5-Trichlorophenol	0.430	0.413		-4.0	
1,1-Biphenyl	1.586	1.458		-8.1	
2-Chloronaphthalene	1.161	1.089		-6.2	
2-Nitroaniline	0.384	0.364		-5.2	
Dimethylphthalate	1.395	1.310		-6.1	
Acenaphthylene	1.855	1.719		-7.3	
2,6-Dinitrotoluene	0.314	0.304		-3.2	
3-Nitroaniline	0.373	0.366		-1.9	
Acenaphthene	1.242	1.165		-6.2	20.0
2,4-Dinitrophenol	0.158	0.167	0.050	5.7	
4-Nitrophenol	0.289	0.277	0.050	-4.2	
Dibenzofuran	1.695	1.563		-7.8	
2,4-Dinitrotoluene	0.400	0.394		-1.5	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: BNA_F Calibration Date/Time: 05/01/2023 10:41

Lab File ID: BF133147.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.317	1.153		-12.5	
4-Chlorophenyl-phenylether	0.605	0.537		-11.2	
Fluorene	1.241	1.098		-11.5	
4-Nitroaniline	0.343	0.348		1.5	
4,6-Dinitro-2-methylphenol	0.121	0.130		7.4	
n-Nitrosodiphenylamine	0.649	0.608		-6.3	20.0
2,4,6-Tribromophenol	0.201	0.186		-7.5	
4-Bromophenyl-phenylether	0.217	0.203		-6.5	
Hexachlorobenzene	0.222	0.214		-3.6	
Atrazine	0.187	0.181		-3.2	
Pentachlorophenol	0.158	0.156		-1.3	20.0
Phenanthrene	1.075	1.000		-7.0	
Anthracene	1.100	1.030		-6.4	
Carbazole	0.980	0.925		-5.6	
Di-n-butylphthalate	1.109	1.065		-4.0	
Fluoranthene	1.079	1.037		-3.9	20.0
Pyrene	1.714	1.573		-8.2	
Terphenyl-d14	1.160	1.029		-11.3	
Butylbenzylphthalate	0.607	0.643		5.9	
3,3-Dichlorobenzidine	0.380	0.394		3.7	
Benzo(a)anthracene	1.375	1.271		-7.6	
Chrysene	1.375	1.286		-6.5	
Bis(2-ethylhexyl)phthalate	0.762	0.778		2.1	
Di-n-octyl phthalate	1.242	1.340		7.9	20.0
Benzo(b)fluoranthene	1.272	1.182		-7.1	
Benzo(k)fluoranthene	1.261	1.204		-4.5	
Benzo(a)pyrene	1.158	1.096		-5.4	20.0
Indeno(1,2,3-cd)pyrene	1.138	1.118		-1.8	
Dibenzo(a,h)anthracene	0.949	0.933		-1.7	
Benzo(g,h,i)perylene	0.937	0.949		1.3	
1,2,4,5-Tetrachlorobenzene	0.538	0.491		-8.7	
1,4-Dioxane	0.614	0.578		-5.9	20.0
2,3,4,6-Tetrachlorophenol	0.333	0.301		-9.6	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: BNA_F Calibration Date/Time: 05/01/2023 15:25

Lab File ID: BF133156.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	$\overline{RRF}$	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.324	1.266		-4.4	
Benzaldehyde	0.791	0.766		-3.2	
Phenol-d6	1.643	1.586		-3.5	
Phenol	1.813	1.695		-6.5	20.0
bis(2-Chloroethyl)ether	1.360	1.281		-5.8	
2-Chlorophenol	1.344	1.302		-3.1	
2-Methylphenol	1.231	1.183		-3.9	
2,2-oxybis(1-Chloropropane)	2.363	2.102		-11.0	
Acetophenone	0.463	0.440		-5.0	
3+4-Methylphenols	1.450	1.379		-4.9	
n-Nitroso-di-n-propylamine	1.023	0.897	0.050	-12.3	
Nitrobenzene-d5	0.371	0.357		-3.8	
Hexachloroethane	0.498	0.480		-3.6	
Nitrobenzene	0.375	0.363		-3.2	
Isophorone	0.704	0.663		-5.8	
2-Nitrophenol	0.181	0.188		3.9	20.0
2,4-Dimethylphenol	0.311	0.301		-3.2	
bis(2-Chloroethoxy)methane	0.416	0.393		-5.5	
2,4-Dichlorophenol	0.283	0.281		-0.7	20.0
Naphthalene	1.000	0.961		-3.9	
4-Chloroaniline	0.404	0.422		4.5	
Hexachlorobutadiene	0.162	0.158		-2.5	20.0
Caprolactam	0.095	0.100		5.3	
4-Chloro-3-methylphenol	0.305	0.304		-0.3	20.0
2-Methylnaphthalene	0.684	0.664		-2.9	
Hexachlorocyclopentadiene	0.314	0.297	0.050	-5.4	
2,4,6-Trichlorophenol	0.372	0.364		-2.2	20.0
2-Fluorobiphenyl	1.195	1.159		-3.0	
2,4,5-Trichlorophenol	0.430	0.426		-0.9	
1,1-Biphenyl	1.586	1.520		-4.2	
2-Chloronaphthalene	1.161	1.121		-3.4	
2-Nitroaniline	0.384	0.387		0.8	
Dimethylphthalate	1.395	1.346		-3.5	
Acenaphthylene	1.855	1.818		-2.0	
2,6-Dinitrotoluene	0.314	0.315		0.3	
3-Nitroaniline	0.373	0.382		2.4	
Acenaphthene	1.242	1.096		-11.8	20.0
2,4-Dinitrophenol	0.158	0.171	0.050	8.2	
4-Nitrophenol	0.289	0.274	0.050	-5.2	
Dibenzofuran	1.695	1.599		-5.7	
2,4-Dinitrotoluene	0.400	0.409		2.3	

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: BNA_F Calibration Date/Time: 05/01/2023 15:25

Lab File ID: BF133156.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.317	1.220		-7.4	
4-Chlorophenyl-phenylether	0.605	0.565		-6.6	
Fluorene	1.241	1.157		-6.8	
4-Nitroaniline	0.343	0.357		4.1	
4,6-Dinitro-2-methylphenol	0.121	0.134		10.7	
n-Nitrosodiphenylamine	0.649	0.617		-4.9	20.0
2,4,6-Tribromophenol	0.201	0.201		0.0	
4-Bromophenyl-phenylether	0.217	0.210		-3.2	
Hexachlorobenzene	0.222	0.220		-0.9	
Atrazine	0.187	0.187		0.0	
Pentachlorophenol	0.158	0.157		-0.6	20.0
Phenanthrene	1.075	1.017		-5.4	
Anthracene	1.100	1.053		-4.3	
Carbazole	0.980	0.945		-3.6	
Di-n-butylphthalate	1.109	1.096		-1.2	
Fluoranthene	1.079	1.048		-2.9	20.0
Pyrene	1.714	1.636		-4.6	
Terphenyl-d14	1.160	1.108		-4.5	
Butylbenzylphthalate	0.607	0.715		17.8	
3,3-Dichlorobenzidine	0.380	0.414		8.9	
Benzo(a)anthracene	1.375	1.286		-6.5	
Chrysene	1.375	1.317		-4.2	
Bis(2-ethylhexyl)phthalate	0.762	0.811		6.4	
Di-n-octyl phthalate	1.242	1.301		4.8	20.0
Benzo(b)fluoranthene	1.272	1.253		-1.5	
Benzo(k)fluoranthene	1.261	1.182		-6.3	
Benzo(a)pyrene	1.158	1.123		-3.0	20.0
Indeno(1,2,3-cd)pyrene	1.138	1.198		5.3	
Dibenzo(a,h)anthracene	0.949	0.998		5.2	
Benzo(g,h,i)perylene	0.937	1.018		8.6	
1,2,4,5-Tetrachlorobenzene	0.538	0.504		-6.3	
1,4-Dioxane	0.614	0.601		-2.1	20.0
2,3,4,6-Tetrachlorophenol	0.333	0.321		-3.6	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: BNA_F Calibration Date/Time: 05/02/2023 09:54

Lab File ID: BF133179.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	$\overline{RRF}$	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.324	1.272		-3.9	
Benzaldehyde	0.791	0.765		-3.3	
Phenol-d6	1.643	1.555		-5.4	
Phenol	1.813	1.666		-8.1	20.0
bis(2-Chloroethyl)ether	1.360	1.266		-6.9	
2-Chlorophenol	1.344	1.295		-3.6	
2-Methylphenol	1.231	1.158		-5.9	
2,2-oxybis(1-Chloropropane)	2.363	2.046		-13.4	
Acetophenone	0.463	0.435		-6.0	
3+4-Methylphenols	1.450	1.351		-6.8	
n-Nitroso-di-n-propylamine	1.023	0.856	0.050	-16.3	
Nitrobenzene-d5	0.371	0.350		-5.7	
Hexachloroethane	0.498	0.468		-6.0	
Nitrobenzene	0.375	0.361		-3.7	
Isophorone	0.704	0.645		-8.4	
2-Nitrophenol	0.181	0.187		3.3	20.0
2,4-Dimethylphenol	0.311	0.300		-3.5	
bis(2-Chloroethoxy)methane	0.416	0.382		-8.2	
2,4-Dichlorophenol	0.283	0.278		-1.8	20.0
Naphthalene	1.000	0.957		-4.3	
4-Chloroaniline	0.404	0.419		3.7	
Hexachlorobutadiene	0.162	0.155		-4.3	20.0
Caprolactam	0.095	0.100		5.3	
4-Chloro-3-methylphenol	0.305	0.299		-2.0	20.0
2-Methylnaphthalene	0.684	0.645		-5.7	
Hexachlorocyclopentadiene	0.314	0.286	0.050	-8.9	
2,4,6-Trichlorophenol	0.372	0.364		-2.2	20.0
2-Fluorobiphenyl	1.195	1.150		-3.8	
2,4,5-Trichlorophenol	0.430	0.419		-2.6	
1,1-Biphenyl	1.586	1.516		-4.4	
2-Chloronaphthalene	1.161	1.119		-3.6	
2-Nitroaniline	0.384	0.385		0.3	
Dimethylphthalate	1.395	1.356		-2.8	
Acenaphthylene	1.855	1.819		-1.9	
2,6-Dinitrotoluene	0.314	0.311		-1.0	
3-Nitroaniline	0.373	0.393		5.4	
Acenaphthene	1.242	1.207		-2.8	20.0
2,4-Dinitrophenol	0.158	0.168	0.050	6.3	
4-Nitrophenol	0.289	0.292	0.050	1.0	
Dibenzofuran	1.695	1.646		-2.9	
2,4-Dinitrotoluene	0.400	0.424		6.0	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GEIC06

Lab Code: CHEM Case No.: O2521 SAS No.: O2521 SDG No.: O2521

Instrument ID: BNA_F Calibration Date/Time: 05/02/2023 09:54

Lab File ID: BF133179.D Init. Calib. Date(s): 04/21/2023 04/21/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:11 16:50

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.317	1.299		-1.4	
4-Chlorophenyl-phenylether	0.605	0.577		-4.6	
Fluorene	1.241	1.213		-2.3	
4-Nitroaniline	0.343	0.395		15.2	
4,6-Dinitro-2-methylphenol	0.121	0.133		9.9	
n-Nitrosodiphenylamine	0.649	0.611		-5.9	20.0
2,4,6-Tribromophenol	0.201	0.198		-1.5	
4-Bromophenyl-phenylether	0.217	0.203		-6.5	
Hexachlorobenzene	0.222	0.212		-4.5	
Atrazine	0.187	0.190		1.6	
Pentachlorophenol	0.158	0.150		-5.1	20.0
Phenanthrene	1.075	1.010		-6.0	
Anthracene	1.100	1.055		-4.1	
Carbazole	0.980	0.971		-0.9	
Di-n-butylphthalate	1.109	1.131		2.0	
Fluoranthene	1.079	1.081		0.2	20.0
Pyrene	1.714	1.554		-9.3	
Terphenyl-d14	1.160	1.016		-12.4	
Butylbenzylphthalate	0.607	0.682		12.4	
3,3-Dichlorobenzidine	0.380	0.421		10.8	
Benzo(a)anthracene	1.375	1.256		-8.7	
Chrysene	1.375	1.273		-7.4	
Bis(2-ethylhexyl)phthalate	0.762	0.769		0.9	
Di-n-octyl phthalate	1.242	1.349		8.6	20.0
Benzo(b)fluoranthene	1.272	1.291		1.5	
Benzo(k)fluoranthene	1.261	1.137		-9.8	
Benzo(a)pyrene	1.158	1.110		-4.1	20.0
Indeno(1,2,3-cd)pyrene	1.138	1.138		0.0	
Dibenzo(a,h)anthracene	0.949	0.939		-1.1	
Benzo(g,h,i)perylene	0.937	0.948		1.2	
1,2,4,5-Tetrachlorobenzene	0.538	0.512		-4.8	
1,4-Dioxane	0.614	0.587		-4.4	20.0
2,3,4,6-Tetrachlorophenol	0.333	0.332		-0.3	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey - 07092
Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	O2521	**OrderDate:**	4/27/2023 8:52:00 AM
Client:	GEI Consultants, Inc., P.C.	**Project:**	Ferry Point
Contact:	Stacey Ng	**Location:**	M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O2521-01	**GMW-1**	**Water**			**04/26/23**			**04/26/23**
			Mercury	7470A		04/28/23	04/28/23	
			Metals ICP-TAL	6010D		05/03/23	05/03/23	
O2521-02	**GMW-1**	**Water**			**04/26/23**			**04/26/23**
			Dissolved ICP-TAL Metals	6010D		05/03/23	05/03/23	
			Dissolved Mercury	7470A		05/02/23	05/02/23	
O2521-03	**PZ-15**	**Water**			**04/26/23**			**04/26/23**
			Mercury	7470A		04/28/23	04/28/23	
			Metals ICP-TAL	6010D		05/03/23	05/03/23	
O2521-04	**PZ-15**	**Water**			**04/26/23**			**04/26/23**
			Dissolved ICP-TAL Metals	6010D		05/03/23	05/03/23	
			Dissolved Mercury	7470A		05/02/23	05/02/23	
O2521-05	**GMW-10**	**Water**			**04/26/23**			**04/26/23**
			Mercury	7470A		04/28/23	04/28/23	
			Metals ICP-TAL	6010D		05/03/23	05/04/23	
O2521-06	**GMW-10**	**Water**			**04/26/23**			**04/26/23**
			Dissolved ICP-TAL Metals	6010D		05/03/23	05/04/23	
			Dissolved Mercury	7470A		05/02/23	05/02/23	
O2521-07	**GMW-7**	**Water**			**04/26/23**			**04/26/23**
			Mercury	7470A		04/28/23	04/28/23	
			Metals ICP-TAL	6010D		05/03/23	05/04/23	
O2521-08	**GMW-7**	**Water**			**04/26/23**			**04/26/23**
			Dissolved ICP-TAL Metals	6010D		05/03/23	05/04/23	
			Dissolved Mercury	7470A		05/02/23	05/02/23	
O2521-14	**FB**	**Water**			**04/26/23**			**04/26/23**
			Mercury	7470A		04/28/23	04/28/23	

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LAB CHRONICLE

			Metals ICP-TAL	6010D		05/03/23	05/04/23	
O2521-15	**FB**	**Water**			**04/26/23**			**04/26/23**
			Dissolved ICP-TAL Metals	6010D		05/03/23	05/11/23	
			Dissolved Mercury	7470A		05/02/23	05/02/23	

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Hit Summary Sheet
SW-846

SDG No.: O2521 **Order ID:** O2521

Client: GEI Consultants, Inc., P.C. **Project ID:** Ferry Point

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**GMW-1**							
O2521-01	GMW-1	Water	Aluminum	693		28.3	50.0	ug/L
O2521-01	GMW-1	Water	Antimony	2.29	J	2.06	25.0	ug/L
O2521-01	GMW-1	Water	Barium	2370		3.92	50.0	ug/L
O2521-01	GMW-1	Water	Beryllium	0.29	J	0.13	3.00	ug/L
O2521-01	GMW-1	Water	Cadmium	1.11	J	0.10	3.00	ug/L
O2521-01	GMW-1	Water	Calcium	123000		47.7	1000	ug/L
O2521-01	GMW-1	Water	Chromium	6.13		0.80	5.00	ug/L
O2521-01	GMW-1	Water	Cobalt	1.49	J	0.40	15.0	ug/L
O2521-01	GMW-1	Water	Copper	34.4		7.07	10.0	ug/L
O2521-01	GMW-1	Water	Iron	26700		18.5	50.0	ug/L
O2521-01	GMW-1	Water	Lead	45.7		3.51	6.00	ug/L
O2521-01	GMW-1	Water	Magnesium	27400		36.0	1000	ug/L
O2521-01	GMW-1	Water	Manganese	174		0.68	10.0	ug/L
O2521-01	GMW-1	Water	Mercury	0.21		0.078	0.20	ug/L
O2521-01	GMW-1	Water	Nickel	4.98	J	0.85	20.0	ug/L
O2521-01	GMW-1	Water	Potassium	23900		685	1000	ug/L
O2521-01	GMW-1	Water	Silver	4.96	J	0.66	5.00	ug/L
O2521-01	GMW-1	Water	Sodium	60900		237	1000	ug/L
O2521-01	GMW-1	Water	Vanadium	24.0		3.01	20.0	ug/L
O2521-01	GMW-1	Water	Zinc	98.8		1.75	20.0	ug/L
O2521-01	GMW-1	Water	Hardness, Total	420000		267	6620	ug/L
Client ID :	**GMW-1**							
O2521-02	GMW-1	Water	Aluminum	141		28.3	50.0	ug/L
O2521-02	GMW-1	Water	Barium	1630		3.92	50.0	ug/L
O2521-02	GMW-1	Water	Cadmium	0.11	J	0.10	3.00	ug/L
O2521-02	GMW-1	Water	Calcium	104000		47.7	1000	ug/L
O2521-02	GMW-1	Water	Chromium	1.11	J	0.80	5.00	ug/L
O2521-02	GMW-1	Water	Cobalt	0.47	J	0.40	15.0	ug/L
O2521-02	GMW-1	Water	Copper	35.7		7.07	10.0	ug/L
O2521-02	GMW-1	Water	Iron	361		18.5	50.0	ug/L
O2521-02	GMW-1	Water	Magnesium	30100		36.0	1000	ug/L
O2521-02	GMW-1	Water	Manganese	76.3		0.68	10.0	ug/L
O2521-02	GMW-1	Water	Nickel	2.49	J	0.85	20.0	ug/L
O2521-02	GMW-1	Water	Potassium	27200		685	1000	ug/L
O2521-02	GMW-1	Water	Silver	0.70	J	0.66	5.00	ug/L
O2521-02	GMW-1	Water	Sodium	69800		237	1000	ug/L
O2521-02	GMW-1	Water	Zinc	10.9	J	1.75	20.0	ug/L
Client ID :	**PZ-15**							

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Hit Summary Sheet
SW-846

SDG No.: O2521 **Order ID:** O2521

Client: GEI Consultants, Inc., P.C. **Project ID:** Ferry Point

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
O2521-03	PZ-15	Water	Aluminum	140000		28.3	50.0	ug/L
O2521-03	PZ-15	Water	Arsenic	15.2		3.48	10.0	ug/L
O2521-03	PZ-15	Water	Barium	2260		3.92	50.0	ug/L
O2521-03	PZ-15	Water	Beryllium	6.60		0.13	3.00	ug/L
O2521-03	PZ-15	Water	Cadmium	11.9		0.10	3.00	ug/L
O2521-03	PZ-15	Water	Calcium	137000		47.7	1000	ug/L
O2521-03	PZ-15	Water	Chromium	369		0.80	5.00	ug/L
O2521-03	PZ-15	Water	Cobalt	170		0.40	15.0	ug/L
O2521-03	PZ-15	Water	Copper	293		7.07	10.0	ug/L
O2521-03	PZ-15	Water	Iron	239000		18.5	50.0	ug/L
O2521-03	PZ-15	Water	Lead	170		3.51	6.00	ug/L
O2521-03	PZ-15	Water	Magnesium	69900		36.0	1000	ug/L
O2521-03	PZ-15	Water	Manganese	8080		0.68	10.0	ug/L
O2521-03	PZ-15	Water	Mercury	0.87		0.078	0.20	ug/L
O2521-03	PZ-15	Water	Nickel	564		0.85	20.0	ug/L
O2521-03	PZ-15	Water	Potassium	47000		685	1000	ug/L
O2521-03	PZ-15	Water	Selenium	5.90	J	5.88	10.0	ug/L
O2521-03	PZ-15	Water	Silver	37.9		0.66	5.00	ug/L
O2521-03	PZ-15	Water	Sodium	29800		237	1000	ug/L
O2521-03	PZ-15	Water	Vanadium	313		3.01	20.0	ug/L
O2521-03	PZ-15	Water	Zinc	519		1.75	20.0	ug/L
O2521-03	PZ-15	Water	Hardness, Total	630000		267	6620	ug/L
Client ID :	**PZ-15**							
O2521-04	PZ-15	Water	Aluminum	80.5		28.3	50.0	ug/L
O2521-04	PZ-15	Water	Barium	291		3.92	50.0	ug/L
O2521-04	PZ-15	Water	Calcium	61300		47.7	1000	ug/L
O2521-04	PZ-15	Water	Cobalt	2.49	J	0.40	15.0	ug/L
O2521-04	PZ-15	Water	Copper	10.4		7.07	10.0	ug/L
O2521-04	PZ-15	Water	Iron	62.4		18.5	50.0	ug/L
O2521-04	PZ-15	Water	Magnesium	43700		36.0	1000	ug/L
O2521-04	PZ-15	Water	Manganese	41.7		0.68	10.0	ug/L
O2521-04	PZ-15	Water	Nickel	14.0	J	0.85	20.0	ug/L
O2521-04	PZ-15	Water	Potassium	30900		685	1000	ug/L
O2521-04	PZ-15	Water	Silver	0.81	J	0.66	5.00	ug/L
O2521-04	PZ-15	Water	Sodium	36400		237	1000	ug/L
O2521-04	PZ-15	Water	Zinc	4.22	J	1.75	20.0	ug/L
Client ID :	**GMW-10**							
O2521-05	GMW-10	Water	Aluminum	561		28.3	50.0	ug/L
O2521-05	GMW-10	Water	Antimony	2.86	J	2.06	25.0	ug/L
O2521-05	GMW-10	Water	Arsenic	6.65	J	3.48	10.0	ug/L
O2521-05	GMW-10	Water	Barium	392		3.92	50.0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: O2521 **Order ID:** O2521

Client: GEI Consultants, Inc., P.C. **Project ID:** Ferry Point

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
O2521-05	GMW-10	Water	Beryllium	0.20	J	0.13	3.00	ug/L
O2521-05	GMW-10	Water	Cadmium	0.70	J	0.10	3.00	ug/L
O2521-05	GMW-10	Water	Calcium	153000		47.7	1000	ug/L
O2521-05	GMW-10	Water	Chromium	3.09	J	0.80	5.00	ug/L
O2521-05	GMW-10	Water	Cobalt	1.45	J	0.40	15.0	ug/L
O2521-05	GMW-10	Water	Copper	58.8		7.07	10.0	ug/L
O2521-05	GMW-10	Water	Iron	16500		18.5	50.0	ug/L
O2521-05	GMW-10	Water	Lead	66.0		3.51	6.00	ug/L
O2521-05	GMW-10	Water	Magnesium	23700		36.0	1000	ug/L
O2521-05	GMW-10	Water	Manganese	894		0.68	10.0	ug/L
O2521-05	GMW-10	Water	Nickel	12.2	J	0.85	20.0	ug/L
O2521-05	GMW-10	Water	Potassium	35300		685	1000	ug/L
O2521-05	GMW-10	Water	Sodium	14400		237	1000	ug/L
O2521-05	GMW-10	Water	Vanadium	22.1		3.01	20.0	ug/L
O2521-05	GMW-10	Water	Zinc	86.0		1.75	20.0	ug/L
O2521-05	GMW-10	Water	Hardness, Total	480000		267	6620	ug/L
Client ID :	**GMW-10**							
O2521-06	GMW-10	Water	Aluminum	147		28.3	50.0	ug/L
O2521-06	GMW-10	Water	Barium	320		3.92	50.0	ug/L
O2521-06	GMW-10	Water	Cadmium	0.11	J	0.10	3.00	ug/L
O2521-06	GMW-10	Water	Calcium	146000		47.7	1000	ug/L
O2521-06	GMW-10	Water	Copper	23.9		7.07	10.0	ug/L
O2521-06	GMW-10	Water	Iron	27.0	J	18.5	50.0	ug/L
O2521-06	GMW-10	Water	Magnesium	23900		36.0	1000	ug/L
O2521-06	GMW-10	Water	Manganese	702		0.68	10.0	ug/L
O2521-06	GMW-10	Water	Nickel	8.11	J	0.85	20.0	ug/L
O2521-06	GMW-10	Water	Potassium	35200		685	1000	ug/L
O2521-06	GMW-10	Water	Sodium	15500		237	1000	ug/L
O2521-06	GMW-10	Water	Zinc	17.0	J	1.75	20.0	ug/L
Client ID :	**GMW-7**							
O2521-07	GMW-7	Water	Aluminum	2230		28.3	50.0	ug/L
O2521-07	GMW-7	Water	Antimony	2.16	J	2.06	25.0	ug/L
O2521-07	GMW-7	Water	Barium	290		3.92	50.0	ug/L
O2521-07	GMW-7	Water	Cadmium	1.47	J	0.10	3.00	ug/L
O2521-07	GMW-7	Water	Calcium	145000		47.7	1000	ug/L
O2521-07	GMW-7	Water	Chromium	9.98		0.80	5.00	ug/L
O2521-07	GMW-7	Water	Cobalt	2.59	J	0.40	15.0	ug/L
O2521-07	GMW-7	Water	Copper	61.7		7.07	10.0	ug/L
O2521-07	GMW-7	Water	Iron	4730		18.5	50.0	ug/L
O2521-07	GMW-7	Water	Lead	49.5		3.51	6.00	ug/L
O2521-07	GMW-7	Water	Magnesium	26900		36.0	1000	ug/L

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Hit Summary Sheet
SW-846

SDG No.: O2521 **Order ID:** O2521

Client: GEI Consultants, Inc., P.C. **Project ID:** Ferry Point

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
O2521-07	GMW-7	Water	Manganese	249		0.68	10.0	ug/L
O2521-07	GMW-7	Water	Mercury	0.083	J	0.078	0.20	ug/L
O2521-07	GMW-7	Water	Nickel	20.0		0.85	20.0	ug/L
O2521-07	GMW-7	Water	Potassium	20900		685	1000	ug/L
O2521-07	GMW-7	Water	Sodium	32800		237	1000	ug/L
O2521-07	GMW-7	Water	Vanadium	4.55	J	3.01	20.0	ug/L
O2521-07	GMW-7	Water	Zinc	185		1.75	20.0	ug/L
O2521-07	GMW-7	Water	Hardness, Total	473000		267	6620	ug/L
Client ID :	**GMW-7**							
O2521-08	GMW-7	Water	Aluminum	145		28.3	50.0	ug/L
O2521-08	GMW-7	Water	Barium	233		3.92	50.0	ug/L
O2521-08	GMW-7	Water	Cadmium	0.23	J	0.10	3.00	ug/L
O2521-08	GMW-7	Water	Calcium	137000		47.7	1000	ug/L
O2521-08	GMW-7	Water	Cobalt	0.84	J	0.40	15.0	ug/L
O2521-08	GMW-7	Water	Copper	22.3		7.07	10.0	ug/L
O2521-08	GMW-7	Water	Iron	24.9	J	18.5	50.0	ug/L
O2521-08	GMW-7	Water	Magnesium	25800		36.0	1000	ug/L
O2521-08	GMW-7	Water	Manganese	207		0.68	10.0	ug/L
O2521-08	GMW-7	Water	Nickel	8.17	J	0.85	20.0	ug/L
O2521-08	GMW-7	Water	Potassium	20500		685	1000	ug/L
O2521-08	GMW-7	Water	Sodium	32800		237	1000	ug/L
O2521-08	GMW-7	Water	Zinc	70.2		1.75	20.0	ug/L
Client ID :	**FB**							
O2521-14	FB	Water	Calcium	50.4	J	47.7	1000	ug/L
O2521-14	FB	Water	Chromium	0.85	J	0.80	5.00	ug/L
O2521-14	FB	Water	Manganese	0.88	J	0.68	10.0	ug/L
O2521-14	FB	Water	Sodium	240	J	237	1000	ug/L
O2521-14	FB	Water	Zinc	2.17	J	1.75	20.0	ug/L
Client ID :	**FB**							
O2521-15	FB	Water	Barium	9.56	J	3.92	50.0	ug/L
O2521-15	FB	Water	Cadmium	0.28	J	0.10	3.00	ug/L
O2521-15	FB	Water	Calcium	1900		47.7	1000	ug/L
O2521-15	FB	Water	Iron	32.2	J	18.5	50.0	ug/L
O2521-15	FB	Water	Magnesium	41.9	J	36.0	1000	ug/L
O2521-15	FB	Water	Manganese	31.6		0.68	10.0	ug/L
O2521-15	FB	Water	Sodium	763	J	237	1000	ug/L
O2521-15	FB	Water	Zinc	21.4		1.75	20.0	ug/L

SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1	SDG No.:	O2521
Lab Sample ID:	O2521-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	693	N	1	28.3	50.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-36-0	Antimony	2.29	J	1	2.06	25.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-39-3	Barium	2370	N	1	3.92	50.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-41-7	Beryllium	0.29	J	1	0.13	3.00	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-43-9	Cadmium	1.11	J	1	0.10	3.00	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-70-2	Calcium	123000		1	47.7	1000	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-47-3	Chromium	6.13		1	0.80	5.00	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-48-4	Cobalt	1.49	J	1	0.40	15.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-50-8	Copper	34.4		1	7.07	10.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
Hardness	Hardness, Total	420000		1	267	6620	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7439-89-6	Iron	26700	N	1	18.5	50.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7439-92-1	Lead	45.7		1	3.51	6.00	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7439-95-4	Magnesium	27400		1	36.0	1000	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7439-96-5	Manganese	174	N	1	0.68	10.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7439-97-6	Mercury	0.21		1	0.078	0.20	ug/L	04/28/23 10:35	04/28/23 13:52	SW7470A	
7440-02-0	Nickel	4.98	J	1	0.85	20.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-09-7	Potassium	23900		1	685	1000	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-22-4	Silver	4.96	J	1	0.66	5.00	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-23-5	Sodium	60900		1	237	1000	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-62-2	Vanadium	24.0		1	3.01	20.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010
7440-66-6	Zinc	98.8	N	1	1.75	20.0	ug/L	05/03/23 12:30	05/03/23 18:47	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1	SDG No.:	O2521
Lab Sample ID:	O2521-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	141	N	1	28.3	50.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-39-3	Barium	1630	N	1	3.92	50.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-43-9	Cadmium	0.11	J	1	0.10	3.00	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-70-2	Calcium	104000		1	47.7	1000	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-47-3	Chromium	1.11	J	1	0.80	5.00	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-48-4	Cobalt	0.47	J	1	0.40	15.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-50-8	Copper	35.7		1	7.07	10.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7439-89-6	Iron	361	N	1	18.5	50.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7439-95-4	Magnesium	30100		1	36.0	1000	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7439-96-5	Manganese	76.3	N	1	0.68	10.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	05/02/23 13:30	05/02/23 16:42	SW7470A	
7440-02-0	Nickel	2.49	J	1	0.85	20.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-09-7	Potassium	27200		1	685	1000	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-22-4	Silver	0.70	J	1	0.66	5.00	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-23-5	Sodium	69800		1	237	1000	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-62-2	Vanadium	20.0	U	1	3.01	20.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010
7440-66-6	Zinc	10.9	JN	1	1.75	20.0	ug/L	05/03/23 12:30	05/03/23 18:51	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15	SDG No.:	O2521
Lab Sample ID:	O2521-03	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	140000	N	1	28.3	50.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-38-2	Arsenic	15.2		1	3.48	10.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-39-3	Barium	2260	N	1	3.92	50.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-41-7	Beryllium	6.60		1	0.13	3.00	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-43-9	Cadmium	11.9		1	0.10	3.00	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-70-2	Calcium	137000		1	47.7	1000	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-47-3	Chromium	369		1	0.80	5.00	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-48-4	Cobalt	170		1	0.40	15.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-50-8	Copper	293		1	7.07	10.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
Hardness	Hardness, Total	630000		1	267	6620	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7439-89-6	Iron	239000	N	1	18.5	50.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7439-92-1	Lead	170		1	3.51	6.00	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7439-95-4	Magnesium	69900		1	36.0	1000	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7439-96-5	Manganese	8080	N	1	0.68	10.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7439-97-6	Mercury	0.87		1	0.078	0.20	ug/L	04/28/23 10:35	04/28/23 13:54	SW7470A	
7440-02-0	Nickel	564		1	0.85	20.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-09-7	Potassium	47000		1	685	1000	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7782-49-2	Selenium	5.90	J	1	5.88	10.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-22-4	Silver	37.9		1	0.66	5.00	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-23-5	Sodium	29800		1	237	1000	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-62-2	Vanadium	313		1	3.01	20.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010
7440-66-6	Zinc	519	N	1	1.75	20.0	ug/L	05/03/23 12:30	05/03/23 18:55	SW6010	SW3010

Color Before:	Brown	Clarity Before:	Cloudy	Texture:	
Color After:	Brown	Clarity After:	Cloudy	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
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N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15	SDG No.:	O2521
Lab Sample ID:	O2521-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	80.5	N	1	28.3	50.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-39-3	Barium	291	N	1	3.92	50.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-43-9	Cadmium	3.00	U	1	0.10	3.00	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-70-2	Calcium	61300		1	47.7	1000	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-47-3	Chromium	5.00	U	1	0.80	5.00	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-48-4	Cobalt	2.49	J	1	0.40	15.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-50-8	Copper	10.4		1	7.07	10.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7439-89-6	Iron	62.4	N	1	18.5	50.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7439-95-4	Magnesium	43700		1	36.0	1000	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7439-96-5	Manganese	41.7	N	1	0.68	10.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	05/02/23 13:30	05/02/23 16:44	SW7470A	
7440-02-0	Nickel	14.0	J	1	0.85	20.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-09-7	Potassium	30900		1	685	1000	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-22-4	Silver	0.81	J	1	0.66	5.00	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-23-5	Sodium	36400		1	237	1000	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-62-2	Vanadium	20.0	U	1	3.01	20.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010
7440-66-6	Zinc	4.22	JN	1	1.75	20.0	ug/L	05/03/23 12:30	05/03/23 18:59	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10	SDG No.:	O2521
Lab Sample ID:	O2521-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	561	N	1	28.3	50.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-36-0	Antimony	2.86	J	1	2.06	25.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-38-2	Arsenic	6.65	J	1	3.48	10.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-39-3	Barium	392	N	1	3.92	50.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-41-7	Beryllium	0.20	J	1	0.13	3.00	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-43-9	Cadmium	0.70	J	1	0.10	3.00	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-70-2	Calcium	153000		1	47.7	1000	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-47-3	Chromium	3.09	J	1	0.80	5.00	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-48-4	Cobalt	1.45	J	1	0.40	15.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-50-8	Copper	58.8		1	7.07	10.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
Hardness	Hardness, Total	480000		1	267	6620	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7439-89-6	Iron	16500	N	1	18.5	50.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7439-92-1	Lead	66.0		1	3.51	6.00	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7439-95-4	Magnesium	23700		1	36.0	1000	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7439-96-5	Manganese	894	N	1	0.68	10.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	04/28/23 10:35	04/28/23 13:57	SW7470A	
7440-02-0	Nickel	12.2	J	1	0.85	20.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-09-7	Potassium	35300		1	685	1000	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.66	5.00	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-23-5	Sodium	14400		1	237	1000	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-62-2	Vanadium	22.1		1	3.01	20.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010
7440-66-6	Zinc	86.0	N	1	1.75	20.0	ug/L	05/03/23 12:30	05/04/23 16:01	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10	SDG No.:	O2521
Lab Sample ID:	O2521-06	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	147	N	1	28.3	50.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-39-3	Barium	320	N	1	3.92	50.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-43-9	Cadmium	0.11	J	1	0.10	3.00	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-70-2	Calcium	146000		1	47.7	1000	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-47-3	Chromium	5.00	U	1	0.80	5.00	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-48-4	Cobalt	15.0	U	1	0.40	15.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-50-8	Copper	23.9		1	7.07	10.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7439-89-6	Iron	27.0	JN	1	18.5	50.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7439-95-4	Magnesium	23900		1	36.0	1000	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7439-96-5	Manganese	702	N	1	0.68	10.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	05/02/23 13:30	05/02/23 16:47	SW7470A	
7440-02-0	Nickel	8.11	J	1	0.85	20.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-09-7	Potassium	35200		1	685	1000	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.66	5.00	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-23-5	Sodium	15500		1	237	1000	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-62-2	Vanadium	20.0	U	1	3.01	20.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010
7440-66-6	Zinc	17.0	JN	1	1.75	20.0	ug/L	05/03/23 12:30	05/04/23 16:05	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

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LOQ = Limit of Quantitation
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OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7	SDG No.:	O2521
Lab Sample ID:	O2521-07	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2230	N	1	28.3	50.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-36-0	Antimony	2.16	J	1	2.06	25.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-39-3	Barium	290	N	1	3.92	50.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-43-9	Cadmium	1.47	J	1	0.10	3.00	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-70-2	Calcium	145000		1	47.7	1000	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-47-3	Chromium	9.98		1	0.80	5.00	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-48-4	Cobalt	2.59	J	1	0.40	15.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-50-8	Copper	61.7		1	7.07	10.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
Hardness	Hardness, Total	473000		1	267	6620	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7439-89-6	Iron	4730	N	1	18.5	50.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7439-92-1	Lead	49.5		1	3.51	6.00	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7439-95-4	Magnesium	26900		1	36.0	1000	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7439-96-5	Manganese	249	N	1	0.68	10.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7439-97-6	Mercury	0.083	J	1	0.078	0.20	ug/L	04/28/23 10:35	04/28/23 13:59	SW7470A	
7440-02-0	Nickel	20.0		1	0.85	20.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-09-7	Potassium	20900		1	685	1000	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.66	5.00	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-23-5	Sodium	32800		1	237	1000	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-62-2	Vanadium	4.55	J	1	3.01	20.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010
7440-66-6	Zinc	185	N	1	1.75	20.0	ug/L	05/03/23 12:30	05/04/23 16:09	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7	SDG No.:	O2521
Lab Sample ID:	O2521-08	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	145	N	1	28.3	50.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-39-3	Barium	233	N	1	3.92	50.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-43-9	Cadmium	0.23	J	1	0.10	3.00	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-70-2	Calcium	137000		1	47.7	1000	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-47-3	Chromium	5.00	U	1	0.80	5.00	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-48-4	Cobalt	0.84	J	1	0.40	15.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-50-8	Copper	22.3		1	7.07	10.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7439-89-6	Iron	24.9	JN	1	18.5	50.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7439-95-4	Magnesium	25800		1	36.0	1000	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7439-96-5	Manganese	207	N	1	0.68	10.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	05/02/23 13:30	05/02/23 16:49	SW7470A	
7440-02-0	Nickel	8.17	J	1	0.85	20.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-09-7	Potassium	20500		1	685	1000	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.66	5.00	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-23-5	Sodium	32800		1	237	1000	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-62-2	Vanadium	20.0	U	1	3.01	20.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010
7440-66-6	Zinc	70.2	N	1	1.75	20.0	ug/L	05/03/23 12:30	05/04/23 17:51	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	FB	SDG No.:	O2521
Lab Sample ID:	O2521-14	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	50.0	UN	1	28.3	50.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-39-3	Barium	50.0	UN	1	3.92	50.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-43-9	Cadmium	3.00	U	1	0.10	3.00	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-70-2	Calcium	50.4	J	1	47.7	1000	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-47-3	Chromium	0.85	J	1	0.80	5.00	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-48-4	Cobalt	15.0	U	1	0.40	15.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-50-8	Copper	10.0	U	1	7.07	10.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
Hardness	Hardness, Total	126	U	1	267	6620	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7439-89-6	Iron	50.0	UN	1	18.5	50.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7439-95-4	Magnesium	1000	U	1	36.0	1000	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7439-96-5	Manganese	0.88	JN	1	0.68	10.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	04/28/23 10:35	04/28/23 14:11	SW7470A	
7440-02-0	Nickel	20.0	U	1	0.85	20.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-09-7	Potassium	1000	U	1	685	1000	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.66	5.00	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-23-5	Sodium	240	J	1	237	1000	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-62-2	Vanadium	20.0	U	1	3.01	20.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010
7440-66-6	Zinc	2.17	JN	1	1.75	20.0	ug/L	05/03/23 12:30	05/04/23 16:32	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

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LOQ = Limit of Quantitation
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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	FB	SDG No.:	O2521
Lab Sample ID:	O2521-15	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	50.0	UN	1	28.3	50.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-36-0	Antimony	25.0	U	1	2.06	25.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-38-2	Arsenic	10.0	U	1	3.48	10.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-39-3	Barium	9.56	JN	1	3.92	50.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-41-7	Beryllium	3.00	U	1	0.13	3.00	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-43-9	Cadmium	0.28	J	1	0.10	3.00	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-70-2	Calcium	1900		1	47.7	1000	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-47-3	Chromium	5.00	U	1	0.80	5.00	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-48-4	Cobalt	15.0	U	1	0.40	15.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-50-8	Copper	10.0	U	1	7.07	10.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7439-89-6	Iron	32.2	JN	1	18.5	50.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7439-92-1	Lead	6.00	U	1	3.51	6.00	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7439-95-4	Magnesium	41.9	J	1	36.0	1000	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7439-96-5	Manganese	31.6	N	1	0.68	10.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7439-97-6	Mercury	0.20	U	1	0.078	0.20	ug/L	05/02/23 13:30	05/02/23 16:58	SW7470A	
7440-02-0	Nickel	20.0	U	1	0.85	20.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-09-7	Potassium	1000	U	1	685	1000	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7782-49-2	Selenium	10.0	U	1	5.88	10.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-22-4	Silver	5.00	U	1	0.66	5.00	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-23-5	Sodium	763	J	1	237	1000	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-28-0	Thallium	20.0	U	1	3.00	20.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-62-2	Vanadium	20.0	U	1	3.01	20.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010
7440-66-6	Zinc	21.4	N	1	1.75	20.0	ug/L	05/03/23 12:30	05/11/23 18:43	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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METAL CALIBRATION DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV53	Mercury	4.39	4.0	110	90 - 110	CV	04/28/2023	13:11	LB125204

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV79	Mercury	5.13	5.0	102	90 - 110	CV	04/28/2023	13:16	LB125204
CCV80	Mercury	4.98	5.0	100	90 - 110	CV	04/28/2023	13:43	LB125204
CCV81	Mercury	4.94	5.0	99	90 - 110	CV	04/28/2023	14:14	LB125204
CCV82	Mercury	5.03	5.0	101	90 - 110	CV	04/28/2023	14:30	LB125204

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV58	Mercury	3.76	4.0	94	90 - 110	CV	05/02/2023	16:06	LB125251

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV98	Mercury	4.81	5.0	96	90 - 110	CV	05/02/2023	16:10	LB125251
CCV99	Mercury	4.78	5.0	96	90 - 110	CV	05/02/2023	16:38	LB125251
CCV01	Mercury	4.71	5.0	94	90 - 110	CV	05/02/2023	17:05	LB125251

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2610	2500	104	90 - 110	P	05/03/2023	14:04	LB125269
	Antimony	1040	1000	104	90 - 110	P	05/03/2023	14:04	LB125269
	Arsenic	1080	1000	108	90 - 110	P	05/03/2023	14:04	LB125269
	Barium	555	520	107	90 - 110	P	05/03/2023	14:04	LB125269
	Beryllium	515	510	101	90 - 110	P	05/03/2023	14:04	LB125269
	Cadmium	521	510	102	90 - 110	P	05/03/2023	14:04	LB125269
	Calcium	10100	10000	100	90 - 110	P	05/03/2023	14:04	LB125269
	Chromium	492	520	95	90 - 110	P	05/03/2023	14:04	LB125269
	Cobalt	524	520	101	90 - 110	P	05/03/2023	14:04	LB125269
	Copper	548	510	108	90 - 110	P	05/03/2023	14:04	LB125269
	Iron	9830	10000	98	90 - 110	P	05/03/2023	14:04	LB125269
	Lead	1060	1000	106	90 - 110	P	05/03/2023	14:04	LB125269
	Magnesium	6080	6000	101	90 - 110	P	05/03/2023	14:04	LB125269
	Manganese	551	520	106	90 - 110	P	05/03/2023	14:04	LB125269
	Nickel	530	530	100	90 - 110	P	05/03/2023	14:04	LB125269
	Potassium	9740	9900	98	90 - 110	P	05/03/2023	14:04	LB125269
	Selenium	1090	1000	109	90 - 110	P	05/03/2023	14:04	LB125269
	Silver	239	250	96	90 - 110	P	05/03/2023	14:04	LB125269
	Sodium	9080	10000	91	90 - 110	P	05/03/2023	14:04	LB125269
	Thallium	1080	1000	108	90 - 110	P	05/03/2023	14:04	LB125269
	Vanadium	509	500	102	90 - 110	P	05/03/2023	14:04	LB125269
	Zinc	1050	1000	105	90 - 110	P	05/03/2023	14:04	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9750	10000	98	90 - 110	P	05/03/2023	14:31	LB125269
	Antimony	5000	5000	100	90 - 110	P	05/03/2023	14:31	LB125269
	Arsenic	4870	5000	97	90 - 110	P	05/03/2023	14:31	LB125269
	Barium	10100	10000	101	90 - 110	P	05/03/2023	14:31	LB125269
	Beryllium	238	250	95	90 - 110	P	05/03/2023	14:31	LB125269
	Cadmium	2390	2500	96	90 - 110	P	05/03/2023	14:31	LB125269
	Calcium	23600	25000	95	90 - 110	P	05/03/2023	14:31	LB125269
	Chromium	953	1000	95	90 - 110	P	05/03/2023	14:31	LB125269
	Cobalt	2450	2500	98	90 - 110	P	05/03/2023	14:31	LB125269
	Copper	1230	1250	98	90 - 110	P	05/03/2023	14:31	LB125269
	Iron	4840	5000	97	90 - 110	P	05/03/2023	14:31	LB125269
	Lead	4880	5000	98	90 - 110	P	05/03/2023	14:31	LB125269
	Magnesium	26300	25000	105	90 - 110	P	05/03/2023	14:31	LB125269
	Manganese	2520	2500	101	90 - 110	P	05/03/2023	14:31	LB125269
	Nickel	2470	2500	99	90 - 110	P	05/03/2023	14:31	LB125269
	Potassium	24200	25000	97	90 - 110	P	05/03/2023	14:31	LB125269
	Selenium	4860	5000	97	90 - 110	P	05/03/2023	14:31	LB125269
	Silver	1130	1250	90	90 - 110	P	05/03/2023	14:31	LB125269
	Sodium	25500	25000	102	90 - 110	P	05/03/2023	14:31	LB125269
	Thallium	4870	5000	97	90 - 110	P	05/03/2023	14:31	LB125269
	Vanadium	2410	2500	96	90 - 110	P	05/03/2023	14:31	LB125269
	Zinc	2490	2500	99	90 - 110	P	05/03/2023	14:31	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV01	Aluminum	99.2	100	99	80 - 120	P	05/03/2023	14:35	LB125269
	Antimony	53.9	50.0	108	80 - 120	P	05/03/2023	14:35	LB125269
	Arsenic	23.0	20.0	115	80 - 120	P	05/03/2023	14:35	LB125269
	Barium	112	100	112	80 - 120	P	05/03/2023	14:35	LB125269
	Beryllium	6.29	6.0	105	80 - 120	P	05/03/2023	14:35	LB125269
	Cadmium	6.52	6.0	109	80 - 120	P	05/03/2023	14:35	LB125269
	Calcium	1950	2000	98	80 - 120	P	05/03/2023	14:35	LB125269
	Chromium	9.71	10.0	97	80 - 120	P	05/03/2023	14:35	LB125269
	Cobalt	30.8	30.0	103	80 - 120	P	05/03/2023	14:35	LB125269
	Copper	23.6	20.0	118	80 - 120	P	05/03/2023	14:35	LB125269
	Iron	104	100	104	80 - 120	P	05/03/2023	14:35	LB125269
	Lead	12.7	12.0	106	80 - 120	P	05/03/2023	14:35	LB125269
	Magnesium	2190	2000	109	80 - 120	P	05/03/2023	14:35	LB125269
	Manganese	22.8	20.0	114	80 - 120	P	05/03/2023	14:35	LB125269
	Nickel	40.9	40.0	102	80 - 120	P	05/03/2023	14:35	LB125269
	Potassium	1940	2000	97	80 - 120	P	05/03/2023	14:35	LB125269
	Selenium	22.2	20.0	111	80 - 120	P	05/03/2023	14:35	LB125269
	Silver	10.9	10.0	109	80 - 120	P	05/03/2023	14:35	LB125269
	Sodium	1720	2000	86	80 - 120	P	05/03/2023	14:35	LB125269
	Thallium	43.2	40.0	108	80 - 120	P	05/03/2023	14:35	LB125269
	Vanadium	40.7	40.0	102	80 - 120	P	05/03/2023	14:35	LB125269
	Zinc	46.9	40.0	117	80 - 120	P	05/03/2023	14:35	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Aluminum	9680	10000	97	90 - 110	P	05/03/2023	15:21	LB125269
	Antimony	5010	5000	100	90 - 110	P	05/03/2023	15:21	LB125269
	Arsenic	4820	5000	96	90 - 110	P	05/03/2023	15:21	LB125269
	Barium	10100	10000	101	90 - 110	P	05/03/2023	15:21	LB125269
	Beryllium	237	250	95	90 - 110	P	05/03/2023	15:21	LB125269
	Cadmium	2330	2500	93	90 - 110	P	05/03/2023	15:21	LB125269
	Calcium	23500	25000	94	90 - 110	P	05/03/2023	15:21	LB125269
	Chromium	941	1000	94	90 - 110	P	05/03/2023	15:21	LB125269
	Cobalt	2410	2500	96	90 - 110	P	05/03/2023	15:21	LB125269
	Copper	1210	1250	97	90 - 110	P	05/03/2023	15:21	LB125269
	Iron	4750	5000	95	90 - 110	P	05/03/2023	15:21	LB125269
	Lead	4810	5000	96	90 - 110	P	05/03/2023	15:21	LB125269
	Magnesium	26400	25000	106	90 - 110	P	05/03/2023	15:21	LB125269
	Manganese	2530	2500	101	90 - 110	P	05/03/2023	15:21	LB125269
	Nickel	2450	2500	98	90 - 110	P	05/03/2023	15:21	LB125269
	Potassium	23900	25000	96	90 - 110	P	05/03/2023	15:21	LB125269
	Selenium	4760	5000	95	90 - 110	P	05/03/2023	15:21	LB125269
	Silver	1130	1250	90	90 - 110	P	05/03/2023	15:21	LB125269
	Sodium	24700	25000	99	90 - 110	P	05/03/2023	15:21	LB125269
	Thallium	4780	5000	96	90 - 110	P	05/03/2023	15:21	LB125269
	Vanadium	2400	2500	96	90 - 110	P	05/03/2023	15:21	LB125269
	Zinc	2460	2500	98	90 - 110	P	05/03/2023	15:21	LB125269
CCV03	Aluminum	9780	10000	98	90 - 110	P	05/03/2023	16:39	LB125269
	Antimony	5290	5000	106	90 - 110	P	05/03/2023	16:39	LB125269
	Arsenic	5000	5000	100	90 - 110	P	05/03/2023	16:39	LB125269
	Barium	10500	10000	105	90 - 110	P	05/03/2023	16:39	LB125269
	Beryllium	237	250	95	90 - 110	P	05/03/2023	16:39	LB125269
	Cadmium	2390	2500	96	90 - 110	P	05/03/2023	16:39	LB125269
	Calcium	23800	25000	95	90 - 110	P	05/03/2023	16:39	LB125269
	Chromium	947	1000	95	90 - 110	P	05/03/2023	16:39	LB125269
	Cobalt	2500	2500	100	90 - 110	P	05/03/2023	16:39	LB125269
	Copper	1250	1250	100	90 - 110	P	05/03/2023	16:39	LB125269
	Iron	5000	5000	100	90 - 110	P	05/03/2023	16:39	LB125269
	Lead	5000	5000	100	90 - 110	P	05/03/2023	16:39	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV03	Magnesium	27300	25000	109	90 - 110	P	05/03/2023	16:39	LB125269
	Manganese	2610	2500	104	90 - 110	P	05/03/2023	16:39	LB125269
	Nickel	2560	2500	103	90 - 110	P	05/03/2023	16:39	LB125269
	Potassium	24600	25000	98	90 - 110	P	05/03/2023	16:39	LB125269
	Selenium	4910	5000	98	90 - 110	P	05/03/2023	16:39	LB125269
	Silver	1150	1250	92	90 - 110	P	05/03/2023	16:39	LB125269
	Sodium	25500	25000	102	90 - 110	P	05/03/2023	16:39	LB125269
	Thallium	4930	5000	98	90 - 110	P	05/03/2023	16:39	LB125269
	Vanadium	2460	2500	98	90 - 110	P	05/03/2023	16:39	LB125269
	Zinc	2500	2500	100	90 - 110	P	05/03/2023	16:39	LB125269
CCV04	Aluminum	9900	10000	99	90 - 110	P	05/03/2023	17:30	LB125269
	Antimony	5200	5000	104	90 - 110	P	05/03/2023	17:30	LB125269
	Arsenic	4910	5000	98	90 - 110	P	05/03/2023	17:30	LB125269
	Barium	10500	10000	105	90 - 110	P	05/03/2023	17:30	LB125269
	Beryllium	238	250	95	90 - 110	P	05/03/2023	17:30	LB125269
	Cadmium	2340	2500	94	90 - 110	P	05/03/2023	17:30	LB125269
	Calcium	23900	25000	96	90 - 110	P	05/03/2023	17:30	LB125269
	Chromium	950	1000	95	90 - 110	P	05/03/2023	17:30	LB125269
	Cobalt	2460	2500	98	90 - 110	P	05/03/2023	17:30	LB125269
	Copper	1230	1250	98	90 - 110	P	05/03/2023	17:30	LB125269
	Iron	5020	5000	100	90 - 110	P	05/03/2023	17:30	LB125269
	Lead	4910	5000	98	90 - 110	P	05/03/2023	17:30	LB125269
	Magnesium	27400	25000	110	90 - 110	P	05/03/2023	17:30	LB125269
	Manganese	2620	2500	105	90 - 110	P	05/03/2023	17:30	LB125269
	Nickel	2510	2500	100	90 - 110	P	05/03/2023	17:30	LB125269
	Potassium	24800	25000	99	90 - 110	P	05/03/2023	17:30	LB125269
	Selenium	4830	5000	97	90 - 110	P	05/03/2023	17:30	LB125269
	Silver	1140	1250	92	90 - 110	P	05/03/2023	17:30	LB125269
	Sodium	25500	25000	102	90 - 110	P	05/03/2023	17:30	LB125269
	Thallium	4840	5000	97	90 - 110	P	05/03/2023	17:30	LB125269
	Vanadium	2460	2500	99	90 - 110	P	05/03/2023	17:30	LB125269
	Zinc	2520	2500	101	90 - 110	P	05/03/2023	17:30	LB125269
CCV05	Aluminum	10100	10000	101	90 - 110	P	05/03/2023	18:16	LB125269
	Antimony	5360	5000	107	90 - 110	P	05/03/2023	18:16	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Arsenic	5070	5000	101	90 - 110	P	05/03/2023	18:16	LB125269
	Barium	10800	10000	108	90 - 110	P	05/03/2023	18:16	LB125269
	Beryllium	244	250	98	90 - 110	P	05/03/2023	18:16	LB125269
	Cadmium	2430	2500	97	90 - 110	P	05/03/2023	18:16	LB125269
	Calcium	24400	25000	98	90 - 110	P	05/03/2023	18:16	LB125269
	Chromium	911	1000	91	90 - 110	P	05/03/2023	18:16	LB125269
	Cobalt	2550	2500	102	90 - 110	P	05/03/2023	18:16	LB125269
	Copper	1270	1250	102	90 - 110	P	05/03/2023	18:16	LB125269
	Iron	4940	5000	99	90 - 110	P	05/03/2023	18:16	LB125269
	Lead	5090	5000	102	90 - 110	P	05/03/2023	18:16	LB125269
	Magnesium	26000	25000	104	90 - 110	P	05/03/2023	18:16	LB125269
	Manganese	2710	2500	108	90 - 110	P	05/03/2023	18:16	LB125269
	Nickel	2610	2500	104	90 - 110	P	05/03/2023	18:16	LB125269
	Potassium	24800	25000	99	90 - 110	P	05/03/2023	18:16	LB125269
	Selenium	4980	5000	100	90 - 110	P	05/03/2023	18:16	LB125269
	Silver	1140	1250	91	90 - 110	P	05/03/2023	18:16	LB125269
	Sodium	23300	25000	93	90 - 110	P	05/03/2023	18:16	LB125269
	Thallium	5020	5000	100	90 - 110	P	05/03/2023	18:16	LB125269
	Vanadium	2530	2500	101	90 - 110	P	05/03/2023	18:16	LB125269
	Zinc	2550	2500	102	90 - 110	P	05/03/2023	18:16	LB125269
CCV06	Aluminum	9940	10000	99	90 - 110	P	05/03/2023	19:03	LB125269
	Antimony	5320	5000	106	90 - 110	P	05/03/2023	19:03	LB125269
	Arsenic	5060	5000	101	90 - 110	P	05/03/2023	19:03	LB125269
	Barium	10600	10000	106	90 - 110	P	05/03/2023	19:03	LB125269
	Beryllium	243	250	97	90 - 110	P	05/03/2023	19:03	LB125269
	Cadmium	2460	2500	98	90 - 110	P	05/03/2023	19:03	LB125269
	Calcium	24000	25000	96	90 - 110	P	05/03/2023	19:03	LB125269
	Chromium	904	1000	90	90 - 110	P	05/03/2023	19:03	LB125269
	Cobalt	2570	2500	103	90 - 110	P	05/03/2023	19:03	LB125269
	Copper	1280	1250	102	90 - 110	P	05/03/2023	19:03	LB125269
	Iron	4810	5000	96	90 - 110	P	05/03/2023	19:03	LB125269
	Lead	5120	5000	102	90 - 110	P	05/03/2023	19:03	LB125269
	Magnesium	25500	25000	102	90 - 110	P	05/03/2023	19:03	LB125269
	Manganese	2670	2500	107	90 - 110	P	05/03/2023	19:03	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06	Nickel	2620	2500	105	90 - 110	P	05/03/2023	19:03	LB125269
	Potassium	24200	25000	97	90 - 110	P	05/03/2023	19:03	LB125269
	Selenium	4960	5000	99	90 - 110	P	05/03/2023	19:03	LB125269
	Silver	1250	1250	100	90 - 110	P	05/03/2023	19:03	LB125269
	Sodium	22500	25000	90	90 - 110	P	05/03/2023	19:03	LB125269
	Thallium	5040	5000	101	90 - 110	P	05/03/2023	19:03	LB125269
	Vanadium	2470	2500	99	90 - 110	P	05/03/2023	19:03	LB125269
	Zinc	2560	2500	102	90 - 110	P	05/03/2023	19:03	LB125269

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2590	2500	104	90 - 110	P	05/04/2023	13:41	LB125287
	Antimony	1000	1000	100	90 - 110	P	05/04/2023	13:41	LB125287
	Arsenic	1050	1000	105	90 - 110	P	05/04/2023	13:41	LB125287
	Barium	525	520	101	90 - 110	P	05/04/2023	13:41	LB125287
	Beryllium	524	510	103	90 - 110	P	05/04/2023	13:41	LB125287
	Cadmium	518	510	102	90 - 110	P	05/04/2023	13:41	LB125287
	Calcium	10200	10000	102	90 - 110	P	05/04/2023	13:41	LB125287
	Chromium	521	520	100	90 - 110	P	05/04/2023	13:41	LB125287
	Cobalt	509	520	98	90 - 110	P	05/04/2023	13:41	LB125287
	Copper	535	510	105	90 - 110	P	05/04/2023	13:41	LB125287
	Iron	9840	10000	98	90 - 110	P	05/04/2023	13:41	LB125287
	Lead	1040	1000	104	90 - 110	P	05/04/2023	13:41	LB125287
	Magnesium	6060	6000	101	90 - 110	P	05/04/2023	13:41	LB125287
	Manganese	528	520	102	90 - 110	P	05/04/2023	13:41	LB125287
	Nickel	511	530	96	90 - 110	P	05/04/2023	13:41	LB125287
	Potassium	9650	9900	98	90 - 110	P	05/04/2023	13:41	LB125287
	Selenium	1070	1000	107	90 - 110	P	05/04/2023	13:41	LB125287
	Silver	253	250	101	90 - 110	P	05/04/2023	13:41	LB125287
	Sodium	9520	10000	95	90 - 110	P	05/04/2023	13:41	LB125287
	Thallium	1070	1000	107	90 - 110	P	05/04/2023	13:41	LB125287
	Vanadium	508	500	102	90 - 110	P	05/04/2023	13:41	LB125287
	Zinc	1030	1000	103	90 - 110	P	05/04/2023	13:41	LB125287

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9590	10000	96	90 - 110	P	05/04/2023	14:10	LB125287
	Antimony	5000	5000	100	90 - 110	P	05/04/2023	14:10	LB125287
	Arsenic	5100	5000	102	90 - 110	P	05/04/2023	14:10	LB125287
	Barium	9860	10000	99	90 - 110	P	05/04/2023	14:10	LB125287
	Beryllium	242	250	97	90 - 110	P	05/04/2023	14:10	LB125287
	Cadmium	2390	2500	96	90 - 110	P	05/04/2023	14:10	LB125287
	Calcium	23700	25000	95	90 - 110	P	05/04/2023	14:10	LB125287
	Chromium	956	1000	96	90 - 110	P	05/04/2023	14:10	LB125287
	Cobalt	2440	2500	98	90 - 110	P	05/04/2023	14:10	LB125287
	Copper	1250	1250	100	90 - 110	P	05/04/2023	14:10	LB125287
	Iron	4870	5000	97	90 - 110	P	05/04/2023	14:10	LB125287
	Lead	4880	5000	98	90 - 110	P	05/04/2023	14:10	LB125287
	Magnesium	24400	25000	98	90 - 110	P	05/04/2023	14:10	LB125287
	Manganese	2500	2500	100	90 - 110	P	05/04/2023	14:10	LB125287
	Nickel	2460	2500	99	90 - 110	P	05/04/2023	14:10	LB125287
	Potassium	24200	25000	97	90 - 110	P	05/04/2023	14:10	LB125287
	Selenium	4950	5000	99	90 - 110	P	05/04/2023	14:10	LB125287
	Silver	1250	1250	100	90 - 110	P	05/04/2023	14:10	LB125287
	Sodium	23800	25000	95	90 - 110	P	05/04/2023	14:10	LB125287
	Thallium	4870	5000	98	90 - 110	P	05/04/2023	14:10	LB125287
	Vanadium	2410	2500	96	90 - 110	P	05/04/2023	14:10	LB125287
	Zinc	2490	2500	100	90 - 110	P	05/04/2023	14:10	LB125287

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV01	Aluminum	117	100	117	80 - 120	P	05/04/2023	14:14	LB125287
	Antimony	51.3	50.0	103	80 - 120	P	05/04/2023	14:14	LB125287
	Arsenic	20.4	20.0	102	80 - 120	P	05/04/2023	14:14	LB125287
	Barium	104	100	104	80 - 120	P	05/04/2023	14:14	LB125287
	Beryllium	6.34	6.0	106	80 - 120	P	05/04/2023	14:14	LB125287
	Cadmium	6.31	6.0	105	80 - 120	P	05/04/2023	14:14	LB125287
	Calcium	1920	2000	96	80 - 120	P	05/04/2023	14:14	LB125287
	Chromium	9.72	10.0	97	80 - 120	P	05/04/2023	14:14	LB125287
	Cobalt	29.1	30.0	97	80 - 120	P	05/04/2023	14:14	LB125287
	Copper	23.5	20.0	117	80 - 120	P	05/04/2023	14:14	LB125287
	Iron	100	100	100	80 - 120	P	05/04/2023	14:14	LB125287
	Lead	13.7	12.0	114	80 - 120	P	05/04/2023	14:14	LB125287
	Magnesium	2130	2000	106	80 - 120	P	05/04/2023	14:14	LB125287
	Manganese	22.1	20.0	110	80 - 120	P	05/04/2023	14:14	LB125287
	Nickel	38.9	40.0	97	80 - 120	P	05/04/2023	14:14	LB125287
	Potassium	1910	2000	95	80 - 120	P	05/04/2023	14:14	LB125287
	Selenium	18.9	20.0	95	80 - 120	P	05/04/2023	14:14	LB125287
	Silver	10.5	10.0	105	80 - 120	P	05/04/2023	14:14	LB125287
	Sodium	1810	2000	90	80 - 120	P	05/04/2023	14:14	LB125287
	Thallium	40.9	40.0	102	80 - 120	P	05/04/2023	14:14	LB125287
	Vanadium	39.2	40.0	98	80 - 120	P	05/04/2023	14:14	LB125287
	Zinc	47.9	40.0	120	80 - 120	P	05/04/2023	14:14	LB125287

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Aluminum	9700	10000	97	90 - 110	P	05/04/2023	15:05	LB125287
	Antimony	5120	5000	102	90 - 110	P	05/04/2023	15:05	LB125287
	Arsenic	4950	5000	99	90 - 110	P	05/04/2023	15:05	LB125287
	Barium	10100	10000	101	90 - 110	P	05/04/2023	15:05	LB125287
	Beryllium	242	250	97	90 - 110	P	05/04/2023	15:05	LB125287
	Cadmium	2420	2500	97	90 - 110	P	05/04/2023	15:05	LB125287
	Calcium	23900	25000	96	90 - 110	P	05/04/2023	15:05	LB125287
	Chromium	963	1000	96	90 - 110	P	05/04/2023	15:05	LB125287
	Cobalt	2480	2500	99	90 - 110	P	05/04/2023	15:05	LB125287
	Copper	1270	1250	102	90 - 110	P	05/04/2023	15:05	LB125287
	Iron	4990	5000	100	90 - 110	P	05/04/2023	15:05	LB125287
	Lead	4970	5000	100	90 - 110	P	05/04/2023	15:05	LB125287
	Magnesium	25000	25000	100	90 - 110	P	05/04/2023	15:05	LB125287
	Manganese	2570	2500	103	90 - 110	P	05/04/2023	15:05	LB125287
	Nickel	2520	2500	101	90 - 110	P	05/04/2023	15:05	LB125287
	Potassium	24900	25000	99	90 - 110	P	05/04/2023	15:05	LB125287
	Selenium	5070	5000	101	90 - 110	P	05/04/2023	15:05	LB125287
	Silver	1350	1250	108	90 - 110	P	05/04/2023	15:05	LB125287
	Sodium	24600	25000	98	90 - 110	P	05/04/2023	15:05	LB125287
	Thallium	4950	5000	99	90 - 110	P	05/04/2023	15:05	LB125287
	Vanadium	2430	2500	97	90 - 110	P	05/04/2023	15:05	LB125287
	Zinc	2540	2500	102	90 - 110	P	05/04/2023	15:05	LB125287
CCV03	Aluminum	9720	10000	97	90 - 110	P	05/04/2023	15:53	LB125287
	Antimony	5280	5000	106	90 - 110	P	05/04/2023	15:53	LB125287
	Arsenic	5060	5000	101	90 - 110	P	05/04/2023	15:53	LB125287
	Barium	10200	10000	102	90 - 110	P	05/04/2023	15:53	LB125287
	Beryllium	238	250	95	90 - 110	P	05/04/2023	15:53	LB125287
	Cadmium	2440	2500	98	90 - 110	P	05/04/2023	15:53	LB125287
	Calcium	23900	25000	95	90 - 110	P	05/04/2023	15:53	LB125287
	Chromium	968	1000	97	90 - 110	P	05/04/2023	15:53	LB125287
	Cobalt	2520	2500	101	90 - 110	P	05/04/2023	15:53	LB125287
	Copper	1300	1250	104	90 - 110	P	05/04/2023	15:53	LB125287
	Iron	5040	5000	101	90 - 110	P	05/04/2023	15:53	LB125287
	Lead	5030	5000	101	90 - 110	P	05/04/2023	15:53	LB125287

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV03	Magnesium	24900	25000	100	90 - 110	P	05/04/2023	15:53	LB125287
	Manganese	2570	2500	103	90 - 110	P	05/04/2023	15:53	LB125287
	Nickel	2560	2500	102	90 - 110	P	05/04/2023	15:53	LB125287
	Potassium	25700	25000	103	90 - 110	P	05/04/2023	15:53	LB125287
	Selenium	5220	5000	104	90 - 110	P	05/04/2023	15:53	LB125287
	Silver	1370	1250	109	90 - 110	P	05/04/2023	15:53	LB125287
	Sodium	23700	25000	95	90 - 110	P	05/04/2023	15:53	LB125287
	Thallium	5010	5000	100	90 - 110	P	05/04/2023	15:53	LB125287
	Vanadium	2450	2500	98	90 - 110	P	05/04/2023	15:53	LB125287
	Zinc	2580	2500	103	90 - 110	P	05/04/2023	15:53	LB125287
CCV04	Aluminum	9490	10000	95	90 - 110	P	05/04/2023	16:52	LB125287
	Antimony	5230	5000	104	90 - 110	P	05/04/2023	16:52	LB125287
	Arsenic	4980	5000	100	90 - 110	P	05/04/2023	16:52	LB125287
	Barium	9960	10000	100	90 - 110	P	05/04/2023	16:52	LB125287
	Beryllium	239	250	96	90 - 110	P	05/04/2023	16:52	LB125287
	Cadmium	2390	2500	96	90 - 110	P	05/04/2023	16:52	LB125287
	Calcium	23300	25000	93	90 - 110	P	05/04/2023	16:52	LB125287
	Chromium	967	1000	97	90 - 110	P	05/04/2023	16:52	LB125287
	Cobalt	2480	2500	99	90 - 110	P	05/04/2023	16:52	LB125287
	Copper	1290	1250	103	90 - 110	P	05/04/2023	16:52	LB125287
	Iron	5010	5000	100	90 - 110	P	05/04/2023	16:52	LB125287
	Lead	4950	5000	99	90 - 110	P	05/04/2023	16:52	LB125287
	Magnesium	24400	25000	98	90 - 110	P	05/04/2023	16:52	LB125287
	Manganese	2540	2500	102	90 - 110	P	05/04/2023	16:52	LB125287
	Nickel	2520	2500	101	90 - 110	P	05/04/2023	16:52	LB125287
	Potassium	25100	25000	101	90 - 110	P	05/04/2023	16:52	LB125287
	Selenium	5170	5000	103	90 - 110	P	05/04/2023	16:52	LB125287
	Silver	1340	1250	107	90 - 110	P	05/04/2023	16:52	LB125287
	Sodium	24700	25000	99	90 - 110	P	05/04/2023	16:52	LB125287
	Thallium	4910	5000	98	90 - 110	P	05/04/2023	16:52	LB125287
	Vanadium	2390	2500	95	90 - 110	P	05/04/2023	16:52	LB125287
	Zinc	2580	2500	103	90 - 110	P	05/04/2023	16:52	LB125287
CCV05	Aluminum	9300	10000	93	90 - 110	P	05/04/2023	17:43	LB125287
	Antimony	5360	5000	107	90 - 110	P	05/04/2023	17:43	LB125287

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Arsenic	5030	5000	101	90 - 110	P	05/04/2023	17:43	LB125287
	Barium	10000	10000	100	90 - 110	P	05/04/2023	17:43	LB125287
	Beryllium	230	250	92	90 - 110	P	05/04/2023	17:43	LB125287
	Cadmium	2370	2500	95	90 - 110	P	05/04/2023	17:43	LB125287
	Calcium	22800	25000	91	90 - 110	P	05/04/2023	17:43	LB125287
	Chromium	927	1000	93	90 - 110	P	05/04/2023	17:43	LB125287
	Cobalt	2490	2500	100	90 - 110	P	05/04/2023	17:43	LB125287
	Copper	1310	1250	104	90 - 110	P	05/04/2023	17:43	LB125287
	Iron	4950	5000	99	90 - 110	P	05/04/2023	17:43	LB125287
	Lead	4990	5000	100	90 - 110	P	05/04/2023	17:43	LB125287
	Magnesium	24100	25000	96	90 - 110	P	05/04/2023	17:43	LB125287
	Manganese	2560	2500	102	90 - 110	P	05/04/2023	17:43	LB125287
	Nickel	2550	2500	102	90 - 110	P	05/04/2023	17:43	LB125287
	Potassium	25000	25000	100	90 - 110	P	05/04/2023	17:43	LB125287
	Selenium	5300	5000	106	90 - 110	P	05/04/2023	17:43	LB125287
	Silver	1330	1250	106	90 - 110	P	05/04/2023	17:43	LB125287
	Sodium	23600	25000	94	90 - 110	P	05/04/2023	17:43	LB125287
	Thallium	4930	5000	98	90 - 110	P	05/04/2023	17:43	LB125287
	Vanadium	2360	2500	94	90 - 110	P	05/04/2023	17:43	LB125287
	Zinc	2500	2500	100	90 - 110	P	05/04/2023	17:43	LB125287
CCV06	Aluminum	9500	10000	95	90 - 110	P	05/04/2023	18:13	LB125287
	Antimony	5250	5000	105	90 - 110	P	05/04/2023	18:13	LB125287
	Arsenic	4960	5000	99	90 - 110	P	05/04/2023	18:13	LB125287
	Barium	10100	10000	101	90 - 110	P	05/04/2023	18:13	LB125287
	Beryllium	240	250	96	90 - 110	P	05/04/2023	18:13	LB125287
	Cadmium	2370	2500	95	90 - 110	P	05/04/2023	18:13	LB125287
	Calcium	23300	25000	93	90 - 110	P	05/04/2023	18:13	LB125287
	Chromium	939	1000	94	90 - 110	P	05/04/2023	18:13	LB125287
	Cobalt	2480	2500	99	90 - 110	P	05/04/2023	18:13	LB125287
	Copper	1290	1250	103	90 - 110	P	05/04/2023	18:13	LB125287
	Iron	5010	5000	100	90 - 110	P	05/04/2023	18:13	LB125287
	Lead	4950	5000	99	90 - 110	P	05/04/2023	18:13	LB125287
	Magnesium	24600	25000	98	90 - 110	P	05/04/2023	18:13	LB125287
	Manganese	2620	2500	105	90 - 110	P	05/04/2023	18:13	LB125287

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06	Nickel	2520	2500	101	90 - 110	P	05/04/2023	18:13	LB125287
	Potassium	25200	25000	101	90 - 110	P	05/04/2023	18:13	LB125287
	Selenium	5170	5000	103	90 - 110	P	05/04/2023	18:13	LB125287
	Silver	1360	1250	108	90 - 110	P	05/04/2023	18:13	LB125287
	Sodium	24100	25000	96	90 - 110	P	05/04/2023	18:13	LB125287
	Thallium	4870	5000	97	90 - 110	P	05/04/2023	18:13	LB125287
	Vanadium	2400	2500	96	90 - 110	P	05/04/2023	18:13	LB125287
	Zinc	2600	2500	104	90 - 110	P	05/04/2023	18:13	LB125287

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2410	2500	96	90 - 110	P	05/11/2023	15:47	LB125428
	Antimony	985	1000	98	90 - 110	P	05/11/2023	15:47	LB125428
	Arsenic	1040	1000	104	90 - 110	P	05/11/2023	15:47	LB125428
	Barium	526	520	101	90 - 110	P	05/11/2023	15:47	LB125428
	Beryllium	551	510	108	90 - 110	P	05/11/2023	15:47	LB125428
	Cadmium	511	510	100	90 - 110	P	05/11/2023	15:47	LB125428
	Calcium	10200	10000	102	90 - 110	P	05/11/2023	15:47	LB125428
	Chromium	525	520	101	90 - 110	P	05/11/2023	15:47	LB125428
	Cobalt	503	520	97	90 - 110	P	05/11/2023	15:47	LB125428
	Copper	526	510	103	90 - 110	P	05/11/2023	15:47	LB125428
	Iron	9700	10000	97	90 - 110	P	05/11/2023	15:47	LB125428
	Lead	1030	1000	102	90 - 110	P	05/11/2023	15:47	LB125428
	Magnesium	6270	6000	104	90 - 110	P	05/11/2023	15:47	LB125428
	Manganese	530	520	102	90 - 110	P	05/11/2023	15:47	LB125428
	Nickel	506	530	95	90 - 110	P	05/11/2023	15:47	LB125428
	Potassium	9510	9900	96	90 - 110	P	05/11/2023	15:47	LB125428
	Selenium	1050	1000	105	90 - 110	P	05/11/2023	15:47	LB125428
	Silver	253	250	101	90 - 110	P	05/11/2023	15:47	LB125428
	Sodium	9530	10000	95	90 - 110	P	05/11/2023	15:47	LB125428
	Thallium	1040	1000	104	90 - 110	P	05/11/2023	15:47	LB125428
	Vanadium	515	500	103	90 - 110	P	05/11/2023	15:47	LB125428
	Zinc	1030	1000	103	90 - 110	P	05/11/2023	15:47	LB125428

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9820	10000	98	90 - 110	P	05/11/2023	16:19	LB125428
	Antimony	4850	5000	97	90 - 110	P	05/11/2023	16:19	LB125428
	Arsenic	4840	5000	97	90 - 110	P	05/11/2023	16:19	LB125428
	Barium	9660	10000	97	90 - 110	P	05/11/2023	16:19	LB125428
	Beryllium	241	250	96	90 - 110	P	05/11/2023	16:19	LB125428
	Cadmium	2470	2500	99	90 - 110	P	05/11/2023	16:19	LB125428
	Calcium	24300	25000	97	90 - 110	P	05/11/2023	16:19	LB125428
	Chromium	1010	1000	101	90 - 110	P	05/11/2023	16:19	LB125428
	Cobalt	2400	2500	96	90 - 110	P	05/11/2023	16:19	LB125428
	Copper	1220	1250	98	90 - 110	P	05/11/2023	16:19	LB125428
	Iron	4950	5000	99	90 - 110	P	05/11/2023	16:19	LB125428
	Lead	4850	5000	97	90 - 110	P	05/11/2023	16:19	LB125428
	Magnesium	24300	25000	97	90 - 110	P	05/11/2023	16:19	LB125428
	Manganese	2400	2500	96	90 - 110	P	05/11/2023	16:19	LB125428
	Nickel	2420	2500	97	90 - 110	P	05/11/2023	16:19	LB125428
	Potassium	23800	25000	95	90 - 110	P	05/11/2023	16:19	LB125428
	Selenium	4990	5000	100	90 - 110	P	05/11/2023	16:19	LB125428
	Silver	1220	1250	98	90 - 110	P	05/11/2023	16:19	LB125428
	Sodium	23500	25000	94	90 - 110	P	05/11/2023	16:19	LB125428
	Thallium	4810	5000	96	90 - 110	P	05/11/2023	16:19	LB125428
	Vanadium	2460	2500	98	90 - 110	P	05/11/2023	16:19	LB125428
	Zinc	2430	2500	97	90 - 110	P	05/11/2023	16:19	LB125428

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV01	Aluminum	88.2	100	88	80 - 120	P	05/11/2023	16:23	LB125428
	Antimony	52.1	50.0	104	80 - 120	P	05/11/2023	16:23	LB125428
	Arsenic	22.5	20.0	113	80 - 120	P	05/11/2023	16:23	LB125428
	Barium	104	100	104	80 - 120	P	05/11/2023	16:23	LB125428
	Beryllium	6.55	6.0	109	80 - 120	P	05/11/2023	16:23	LB125428
	Cadmium	6.67	6.0	111	80 - 120	P	05/11/2023	16:23	LB125428
	Calcium	2010	2000	100	80 - 120	P	05/11/2023	16:23	LB125428
	Chromium	10.5	10.0	105	80 - 120	P	05/11/2023	16:23	LB125428
	Cobalt	30.2	30.0	101	80 - 120	P	05/11/2023	16:23	LB125428
	Copper	23.6	20.0	118	80 - 120	P	05/11/2023	16:23	LB125428
	Iron	81.6	100	82	80 - 120	P	05/11/2023	16:23	LB125428
	Lead	13.9	12.0	116	80 - 120	P	05/11/2023	16:23	LB125428
	Magnesium	2220	2000	111	80 - 120	P	05/11/2023	16:23	LB125428
	Manganese	21.9	20.0	110	80 - 120	P	05/11/2023	16:23	LB125428
	Nickel	40.0	40.0	100	80 - 120	P	05/11/2023	16:23	LB125428
	Potassium	1940	2000	97	80 - 120	P	05/11/2023	16:23	LB125428
	Selenium	17.7	20.0	88	80 - 120	P	05/11/2023	16:23	LB125428
	Silver	10.5	10.0	105	80 - 120	P	05/11/2023	16:23	LB125428
	Sodium	1780	2000	89	80 - 120	P	05/11/2023	16:23	LB125428
	Thallium	43.6	40.0	109	80 - 120	P	05/11/2023	16:23	LB125428
	Vanadium	43.6	40.0	109	80 - 120	P	05/11/2023	16:23	LB125428
	Zinc	42.6	40.0	106	80 - 120	P	05/11/2023	16:23	LB125428

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Aluminum	9890	10000	99	90 - 110	P	05/11/2023	17:16	LB125428
	Antimony	4810	5000	96	90 - 110	P	05/11/2023	17:16	LB125428
	Arsenic	4790	5000	96	90 - 110	P	05/11/2023	17:16	LB125428
	Barium	9930	10000	99	90 - 110	P	05/11/2023	17:16	LB125428
	Beryllium	268	250	107	90 - 110	P	05/11/2023	17:16	LB125428
	Cadmium	2450	2500	98	90 - 110	P	05/11/2023	17:16	LB125428
	Calcium	24700	25000	99	90 - 110	P	05/11/2023	17:16	LB125428
	Chromium	1020	1000	102	90 - 110	P	05/11/2023	17:16	LB125428
	Cobalt	2390	2500	95	90 - 110	P	05/11/2023	17:16	LB125428
	Copper	1210	1250	97	90 - 110	P	05/11/2023	17:16	LB125428
	Iron	4630	5000	92	90 - 110	P	05/11/2023	17:16	LB125428
	Lead	4800	5000	96	90 - 110	P	05/11/2023	17:16	LB125428
	Magnesium	24500	25000	98	90 - 110	P	05/11/2023	17:16	LB125428
	Manganese	2480	2500	99	90 - 110	P	05/11/2023	17:16	LB125428
	Nickel	2400	2500	96	90 - 110	P	05/11/2023	17:16	LB125428
	Potassium	23100	25000	92	90 - 110	P	05/11/2023	17:16	LB125428
	Selenium	4890	5000	98	90 - 110	P	05/11/2023	17:16	LB125428
	Silver	1250	1250	100	90 - 110	P	05/11/2023	17:16	LB125428
	Sodium	23100	25000	92	90 - 110	P	05/11/2023	17:16	LB125428
	Thallium	4790	5000	96	90 - 110	P	05/11/2023	17:16	LB125428
	Vanadium	2510	2500	100	90 - 110	P	05/11/2023	17:16	LB125428
	Zinc	2490	2500	100	90 - 110	P	05/11/2023	17:16	LB125428
CCV03	Aluminum	9910	10000	99	90 - 110	P	05/11/2023	18:18	LB125428
	Antimony	4920	5000	98	90 - 110	P	05/11/2023	18:18	LB125428
	Arsenic	4860	5000	97	90 - 110	P	05/11/2023	18:18	LB125428
	Barium	9910	10000	99	90 - 110	P	05/11/2023	18:18	LB125428
	Beryllium	264	250	106	90 - 110	P	05/11/2023	18:18	LB125428
	Cadmium	2530	2500	101	90 - 110	P	05/11/2023	18:18	LB125428
	Calcium	25200	25000	101	90 - 110	P	05/11/2023	18:18	LB125428
	Chromium	1060	1000	106	90 - 110	P	05/11/2023	18:18	LB125428
	Cobalt	2420	2500	97	90 - 110	P	05/11/2023	18:18	LB125428
	Copper	1230	1250	98	90 - 110	P	05/11/2023	18:18	LB125428
	Iron	4760	5000	95	90 - 110	P	05/11/2023	18:18	LB125428
	Lead	4860	5000	97	90 - 110	P	05/11/2023	18:18	LB125428

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV03	Magnesium	24400	25000	98	90 - 110	P	05/11/2023	18:18	LB125428
	Manganese	2470	2500	99	90 - 110	P	05/11/2023	18:18	LB125428
	Nickel	2430	2500	97	90 - 110	P	05/11/2023	18:18	LB125428
	Potassium	23900	25000	95	90 - 110	P	05/11/2023	18:18	LB125428
	Selenium	5000	5000	100	90 - 110	P	05/11/2023	18:18	LB125428
	Silver	1270	1250	102	90 - 110	P	05/11/2023	18:18	LB125428
	Sodium	23600	25000	94	90 - 110	P	05/11/2023	18:18	LB125428
	Thallium	4840	5000	97	90 - 110	P	05/11/2023	18:18	LB125428
	Vanadium	2570	2500	103	90 - 110	P	05/11/2023	18:18	LB125428
	Zinc	2520	2500	101	90 - 110	P	05/11/2023	18:18	LB125428
CCV04	Aluminum	9830	10000	98	90 - 110	P	05/11/2023	19:01	LB125428
	Antimony	4860	5000	97	90 - 110	P	05/11/2023	19:01	LB125428
	Arsenic	4830	5000	97	90 - 110	P	05/11/2023	19:01	LB125428
	Barium	9600	10000	96	90 - 110	P	05/11/2023	19:01	LB125428
	Beryllium	239	250	96	90 - 110	P	05/11/2023	19:01	LB125428
	Cadmium	2500	2500	100	90 - 110	P	05/11/2023	19:01	LB125428
	Calcium	24300	25000	97	90 - 110	P	05/11/2023	19:01	LB125428
	Chromium	1050	1000	104	90 - 110	P	05/11/2023	19:01	LB125428
	Cobalt	2400	2500	96	90 - 110	P	05/11/2023	19:01	LB125428
	Copper	1220	1250	97	90 - 110	P	05/11/2023	19:01	LB125428
	Iron	4770	5000	96	90 - 110	P	05/11/2023	19:01	LB125428
	Lead	4810	5000	96	90 - 110	P	05/11/2023	19:01	LB125428
	Magnesium	24200	25000	97	90 - 110	P	05/11/2023	19:01	LB125428
	Manganese	2380	2500	95	90 - 110	P	05/11/2023	19:01	LB125428
	Nickel	2410	2500	96	90 - 110	P	05/11/2023	19:01	LB125428
	Potassium	24000	25000	96	90 - 110	P	05/11/2023	19:01	LB125428
	Selenium	4920	5000	98	90 - 110	P	05/11/2023	19:01	LB125428
	Silver	1220	1250	98	90 - 110	P	05/11/2023	19:01	LB125428
	Sodium	25600	25000	102	90 - 110	P	05/11/2023	19:01	LB125428
	Thallium	4790	5000	96	90 - 110	P	05/11/2023	19:01	LB125428
	Vanadium	2510	2500	100	90 - 110	P	05/11/2023	19:01	LB125428
	Zinc	2410	2500	96	90 - 110	P	05/11/2023	19:01	LB125428
CCV05	Aluminum	9480	10000	95	90 - 110	P	05/11/2023	19:49	LB125428
	Antimony	4800	5000	96	90 - 110	P	05/11/2023	19:49	LB125428

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Arsenic	4720	5000	94	90 - 110	P	05/11/2023	19:49	LB125428
	Barium	9440	10000	94	90 - 110	P	05/11/2023	19:49	LB125428
	Beryllium	236	250	95	90 - 110	P	05/11/2023	19:49	LB125428
	Cadmium	2410	2500	96	90 - 110	P	05/11/2023	19:49	LB125428
	Calcium	23500	25000	94	90 - 110	P	05/11/2023	19:49	LB125428
	Chromium	998	1000	100	90 - 110	P	05/11/2023	19:49	LB125428
	Cobalt	2310	2500	92	90 - 110	P	05/11/2023	19:49	LB125428
	Copper	1190	1250	95	90 - 110	P	05/11/2023	19:49	LB125428
	Iron	4550	5000	91	90 - 110	P	05/11/2023	19:49	LB125428
	Lead	4630	5000	92	90 - 110	P	05/11/2023	19:49	LB125428
	Magnesium	22800	25000	91	90 - 110	P	05/11/2023	19:49	LB125428
	Manganese	2320	2500	93	90 - 110	P	05/11/2023	19:49	LB125428
	Nickel	2320	2500	93	90 - 110	P	05/11/2023	19:49	LB125428
	Potassium	23400	25000	94	90 - 110	P	05/11/2023	19:49	LB125428
	Selenium	4890	5000	98	90 - 110	P	05/11/2023	19:49	LB125428
	Silver	1190	1250	95	90 - 110	P	05/11/2023	19:49	LB125428
	Sodium	23600	25000	94	90 - 110	P	05/11/2023	19:49	LB125428
	Thallium	4610	5000	92	90 - 110	P	05/11/2023	19:49	LB125428
	Vanadium	2460	2500	98	90 - 110	P	05/11/2023	19:49	LB125428
	Zinc	2350	2500	94	90 - 110	P	05/11/2023	19:49	LB125428
CCV06	Aluminum	9640	10000	96	90 - 110	P	05/11/2023	20:37	LB125428
	Antimony	4850	5000	97	90 - 110	P	05/11/2023	20:37	LB125428
	Arsenic	4770	5000	96	90 - 110	P	05/11/2023	20:37	LB125428
	Barium	9590	10000	96	90 - 110	P	05/11/2023	20:37	LB125428
	Beryllium	240	250	96	90 - 110	P	05/11/2023	20:37	LB125428
	Cadmium	2470	2500	99	90 - 110	P	05/11/2023	20:37	LB125428
	Calcium	23800	25000	95	90 - 110	P	05/11/2023	20:37	LB125428
	Chromium	1030	1000	103	90 - 110	P	05/11/2023	20:37	LB125428
	Cobalt	2350	2500	94	90 - 110	P	05/11/2023	20:37	LB125428
	Copper	1200	1250	96	90 - 110	P	05/11/2023	20:37	LB125428
	Iron	4830	5000	97	90 - 110	P	05/11/2023	20:37	LB125428
	Lead	4740	5000	95	90 - 110	P	05/11/2023	20:37	LB125428
	Magnesium	23300	25000	93	90 - 110	P	05/11/2023	20:37	LB125428
	Manganese	2350	2500	94	90 - 110	P	05/11/2023	20:37	LB125428

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06	Nickel	2370	2500	95	90 - 110	P	05/11/2023	20:37	LB125428
	Potassium	23900	25000	96	90 - 110	P	05/11/2023	20:37	LB125428
	Selenium	5000	5000	100	90 - 110	P	05/11/2023	20:37	LB125428
	Silver	1230	1250	98	90 - 110	P	05/11/2023	20:37	LB125428
	Sodium	24700	25000	99	90 - 110	P	05/11/2023	20:37	LB125428
	Thallium	4650	5000	93	90 - 110	P	05/11/2023	20:37	LB125428
	Vanadium	2490	2500	100	90 - 110	P	05/11/2023	20:37	LB125428
	Zinc	2430	2500	97	90 - 110	P	05/11/2023	20:37	LB125428
CCV07	Aluminum	9600	10000	96	90 - 110	P	05/11/2023	21:04	LB125428
	Antimony	4850	5000	97	90 - 110	P	05/11/2023	21:04	LB125428
	Arsenic	4800	5000	96	90 - 110	P	05/11/2023	21:04	LB125428
	Barium	9460	10000	95	90 - 110	P	05/11/2023	21:04	LB125428
	Beryllium	233	250	93	90 - 110	P	05/11/2023	21:04	LB125428
	Cadmium	2480	2500	99	90 - 110	P	05/11/2023	21:04	LB125428
	Calcium	23600	25000	95	90 - 110	P	05/11/2023	21:04	LB125428
	Chromium	1050	1000	104	90 - 110	P	05/11/2023	21:04	LB125428
	Cobalt	2340	2500	94	90 - 110	P	05/11/2023	21:04	LB125428
	Copper	1210	1250	97	90 - 110	P	05/11/2023	21:04	LB125428
	Iron	5000	5000	100	90 - 110	P	05/11/2023	21:04	LB125428
	Lead	4760	5000	95	90 - 110	P	05/11/2023	21:04	LB125428
	Magnesium	23300	25000	93	90 - 110	P	05/11/2023	21:04	LB125428
	Manganese	2290	2500	92	90 - 110	P	05/11/2023	21:04	LB125428
	Nickel	2380	2500	95	90 - 110	P	05/11/2023	21:04	LB125428
	Potassium	24000	25000	96	90 - 110	P	05/11/2023	21:04	LB125428
	Selenium	5150	5000	103	90 - 110	P	05/11/2023	21:04	LB125428
	Silver	1230	1250	98	90 - 110	P	05/11/2023	21:04	LB125428
	Sodium	24800	25000	99	90 - 110	P	05/11/2023	21:04	LB125428
	Thallium	4590	5000	92	90 - 110	P	05/11/2023	21:04	LB125428
	Vanadium	2460	2500	98	90 - 110	P	05/11/2023	21:04	LB125428
	Zinc	2430	2500	97	90 - 110	P	05/11/2023	21:04	LB125428

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Metals

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CRDL STANDARD FOR AA & ICP

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.21	0.2	105	40 - 160	CV	04/28/2023	13:20	LB125204
CRA	Mercury	0.16	0.2	82	40 - 160	CV	05/02/2023	16:15	LB125251
CRI01	Aluminum	120	100	120	40 - 160	P	05/03/2023	14:15	LB125269
	Antimony	52.5	50.0	105	40 - 160	P	05/03/2023	14:15	LB125269
	Arsenic	22.2	20.0	111	40 - 160	P	05/03/2023	14:15	LB125269
	Barium	113	100	114	40 - 160	P	05/03/2023	14:15	LB125269
	Beryllium	6.52	6.0	109	40 - 160	P	05/03/2023	14:15	LB125269
	Cadmium	6.52	6.0	109	40 - 160	P	05/03/2023	14:15	LB125269
	Calcium	1980	2000	99	40 - 160	P	05/03/2023	14:15	LB125269
	Chromium	10.0	10.0	100	40 - 160	P	05/03/2023	14:15	LB125269
	Cobalt	30.7	30.0	102	40 - 160	P	05/03/2023	14:15	LB125269
	Copper	23.4	20.0	117	40 - 160	P	05/03/2023	14:15	LB125269
	Iron	103	100	103	40 - 160	P	05/03/2023	14:15	LB125269
	Lead	12.8	12.0	107	40 - 160	P	05/03/2023	14:15	LB125269
	Magnesium	2200	2000	110	40 - 160	P	05/03/2023	14:15	LB125269
	Manganese	23.1	20.0	115	40 - 160	P	05/03/2023	14:15	LB125269
	Nickel	40.7	40.0	102	40 - 160	P	05/03/2023	14:15	LB125269
	Potassium	1950	2000	97	40 - 160	P	05/03/2023	14:15	LB125269
	Selenium	23.3	20.0	117	40 - 160	P	05/03/2023	14:15	LB125269
	Silver	11.5	10.0	116	40 - 160	P	05/03/2023	14:15	LB125269
	Sodium	1750	2000	88	40 - 160	P	05/03/2023	14:15	LB125269
	Thallium	42.6	40.0	106	40 - 160	P	05/03/2023	14:15	LB125269
	Vanadium	43.5	40.0	109	40 - 160	P	05/03/2023	14:15	LB125269
	Zinc	47.8	40.0	120	40 - 160	P	05/03/2023	14:15	LB125269
CRI01	Aluminum	98.1	100	98	40 - 160	P	05/04/2023	13:51	LB125287
	Antimony	49.6	50.0	99	40 - 160	P	05/04/2023	13:51	LB125287
	Arsenic	21.0	20.0	105	40 - 160	P	05/04/2023	13:51	LB125287
	Barium	103	100	103	40 - 160	P	05/04/2023	13:51	LB125287
	Beryllium	6.51	6.0	108	40 - 160	P	05/04/2023	13:51	LB125287
	Cadmium	6.24	6.0	104	40 - 160	P	05/04/2023	13:51	LB125287
	Calcium	1930	2000	96	40 - 160	P	05/04/2023	13:51	LB125287
	Chromium	9.64	10.0	96	40 - 160	P	05/04/2023	13:51	LB125287
	Cobalt	29.0	30.0	96	40 - 160	P	05/04/2023	13:51	LB125287
	Copper	24.1	20.0	120	40 - 160	P	05/04/2023	13:51	LB125287
	Iron	103	100	103	40 - 160	P	05/04/2023	13:51	LB125287

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Metals

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CRDL STANDARD FOR AA & ICP

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Lead	14.0	12.0	116	40 - 160	P	05/04/2023	13:51	LB125287
	Magnesium	2140	2000	107	40 - 160	P	05/04/2023	13:51	LB125287
	Manganese	21.9	20.0	110	40 - 160	P	05/04/2023	13:51	LB125287
	Nickel	38.6	40.0	96	40 - 160	P	05/04/2023	13:51	LB125287
	Potassium	1910	2000	96	40 - 160	P	05/04/2023	13:51	LB125287
	Selenium	21.3	20.0	106	40 - 160	P	05/04/2023	13:51	LB125287
	Silver	10.4	10.0	104	40 - 160	P	05/04/2023	13:51	LB125287
	Sodium	1830	2000	91	40 - 160	P	05/04/2023	13:51	LB125287
	Thallium	39.9	40.0	100	40 - 160	P	05/04/2023	13:51	LB125287
	Vanadium	41.0	40.0	103	40 - 160	P	05/04/2023	13:51	LB125287
	Zinc	48.4	40.0	121	40 - 160	P	05/04/2023	13:51	LB125287
CRI01	Aluminum	91.1	100	91	40 - 160	P	05/11/2023	15:55	LB125428
	Antimony	50.8	50.0	102	40 - 160	P	05/11/2023	15:55	LB125428
	Arsenic	21.4	20.0	107	40 - 160	P	05/11/2023	15:55	LB125428
	Barium	105	100	105	40 - 160	P	05/11/2023	15:55	LB125428
	Beryllium	6.59	6.0	110	40 - 160	P	05/11/2023	15:55	LB125428
	Cadmium	6.54	6.0	109	40 - 160	P	05/11/2023	15:55	LB125428
	Calcium	2020	2000	101	40 - 160	P	05/11/2023	15:55	LB125428
	Chromium	10.3	10.0	102	40 - 160	P	05/11/2023	15:55	LB125428
	Cobalt	30.2	30.0	101	40 - 160	P	05/11/2023	15:55	LB125428
	Copper	23.2	20.0	116	40 - 160	P	05/11/2023	15:55	LB125428
	Iron	74.8	100	75	40 - 160	P	05/11/2023	15:55	LB125428
	Lead	12.5	12.0	104	40 - 160	P	05/11/2023	15:55	LB125428
	Magnesium	2220	2000	111	40 - 160	P	05/11/2023	15:55	LB125428
	Manganese	21.9	20.0	110	40 - 160	P	05/11/2023	15:55	LB125428
	Nickel	39.8	40.0	100	40 - 160	P	05/11/2023	15:55	LB125428
	Potassium	1930	2000	96	40 - 160	P	05/11/2023	15:55	LB125428
	Selenium	19.7	20.0	98	40 - 160	P	05/11/2023	15:55	LB125428
	Silver	10.2	10.0	102	40 - 160	P	05/11/2023	15:55	LB125428
	Sodium	1810	2000	90	40 - 160	P	05/11/2023	15:55	LB125428
	Thallium	41.4	40.0	104	40 - 160	P	05/11/2023	15:55	LB125428
	Vanadium	41.3	40.0	103	40 - 160	P	05/11/2023	15:55	LB125428
	Zinc	42.5	40.0	106	40 - 160	P	05/11/2023	15:55	LB125428

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB53	Mercury	0.20	+/-0.20	U	0.20	CV	04/28/2023	13:14	LB125204

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB79	Mercury	0.20	+/-0.20	U	0.20	CV	04/28/2023	13:18	LB125204
CCB80	Mercury	0.20	+/-0.20	U	0.20	CV	04/28/2023	13:45	LB125204
CCB81	Mercury	0.20	+/-0.20	U	0.20	CV	04/28/2023	14:16	LB125204
CCB82	Mercury	0.20	+/-0.20	U	0.20	CV	04/28/2023	14:33	LB125204

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB58	Mercury	0.20	+/-0.20	U	0.20	CV	05/02/2023	16:08	LB125251

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB98	Mercury	0.20	+/-0.20	U	0.20	CV	05/02/2023	16:13	LB125251
CCB99	Mercury	0.20	+/-0.20	U	0.20	CV	05/02/2023	16:40	LB125251
CCB01	Mercury	0.20	+/-0.20	U	0.20	CV	05/02/2023	17:07	LB125251

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	05/03/2023	14:11	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	14:11	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	14:11	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	14:11	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	14:11	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	14:11	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	14:11	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	14:11	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	14:11	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	14:11	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	14:11	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	14:11	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	14:11	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	14:11	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	14:11	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	14:11	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	14:11	LB125269
	Silver	1.54	+/-10.0	J	10.0	P	05/03/2023	14:11	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	14:11	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	14:11	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	14:11	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	14:11	LB125269

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	05/03/2023	14:39	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	14:39	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	14:39	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	14:39	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	14:39	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	14:39	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	14:39	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	14:39	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	14:39	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	14:39	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	14:39	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	14:39	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	14:39	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	14:39	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	14:39	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	14:39	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	14:39	LB125269
	Silver	1.35	+/-10.0	J	10.0	P	05/03/2023	14:39	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	14:39	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	14:39	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	14:39	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	14:39	LB125269
CCB02	Aluminum	100	+/-100	U	100	P	05/03/2023	15:30	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	15:30	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	15:30	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	15:30	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	15:30	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	15:30	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	15:30	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	15:30	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	15:30	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	15:30	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	15:30	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	15:30	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	15:30	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	15:30	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	15:30	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	15:30	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	15:30	LB125269
	Silver	10.0	+/-10.0	U	10.0	P	05/03/2023	15:30	LB125269

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Sodium	2000	+/-2000	U	2000	P	05/03/2023	15:30	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	15:30	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	15:30	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	15:30	LB125269
CCB03	Aluminum	100	+/-100	U	100	P	05/03/2023	16:43	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	16:43	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	16:43	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	16:43	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	16:43	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	16:43	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	16:43	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	16:43	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	16:43	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	16:43	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	16:43	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	16:43	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	16:43	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	16:43	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	16:43	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	16:43	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	16:43	LB125269
	Silver	10.0	+/-10.0	U	10.0	P	05/03/2023	16:43	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	16:43	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	16:43	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	16:43	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	16:43	LB125269
CCB04	Aluminum	100	+/-100	U	100	P	05/03/2023	17:34	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	17:34	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	17:34	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	17:34	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	17:34	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	17:34	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	17:34	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	17:34	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	17:34	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	17:34	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	17:34	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	17:34	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	17:34	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	17:34	LB125269

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	17:34	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	17:34	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	17:34	LB125269
	Silver	1.69	+/-10.0	J	10.0	P	05/03/2023	17:34	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	17:34	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	17:34	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	17:34	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	17:34	LB125269
CCB05	Aluminum	100	+/-100	U	100	P	05/03/2023	18:20	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	18:20	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	18:20	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	18:20	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	18:20	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	18:20	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	18:20	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	18:20	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	18:20	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	18:20	LB125269
	Iron	100	+/-100	U	100	P	05/03/2023	18:20	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	18:20	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	18:20	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	18:20	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	18:20	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	18:20	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	18:20	LB125269
	Silver	10.0	+/-10.0	U	10.0	P	05/03/2023	18:20	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	18:20	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	18:20	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	18:20	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	18:20	LB125269
CCB06	Aluminum	100	+/-100	U	100	P	05/03/2023	19:07	LB125269
	Antimony	50.0	+/-50.0	U	50.0	P	05/03/2023	19:07	LB125269
	Arsenic	20.0	+/-20.0	U	20.0	P	05/03/2023	19:07	LB125269
	Barium	100	+/-100	U	100	P	05/03/2023	19:07	LB125269
	Beryllium	6.00	+/-6.00	U	6.00	P	05/03/2023	19:07	LB125269
	Cadmium	6.00	+/-6.00	U	6.00	P	05/03/2023	19:07	LB125269
	Calcium	2000	+/-2000	U	2000	P	05/03/2023	19:07	LB125269
	Chromium	10.0	+/-10.0	U	10.0	P	05/03/2023	19:07	LB125269
	Cobalt	30.0	+/-30.0	U	30.0	P	05/03/2023	19:07	LB125269
	Copper	20.0	+/-20.0	U	20.0	P	05/03/2023	19:07	LB125269

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Iron	100	+/-100	U	100	P	05/03/2023	19:07	LB125269
	Lead	12.0	+/-12.0	U	12.0	P	05/03/2023	19:07	LB125269
	Magnesium	2000	+/-2000	U	2000	P	05/03/2023	19:07	LB125269
	Manganese	20.0	+/-20.0	U	20.0	P	05/03/2023	19:07	LB125269
	Nickel	40.0	+/-40.0	U	40.0	P	05/03/2023	19:07	LB125269
	Potassium	2000	+/-2000	U	2000	P	05/03/2023	19:07	LB125269
	Selenium	20.0	+/-20.0	U	20.0	P	05/03/2023	19:07	LB125269
	Silver	2.29	+/-10.0	J	10.0	P	05/03/2023	19:07	LB125269
	Sodium	2000	+/-2000	U	2000	P	05/03/2023	19:07	LB125269
	Thallium	40.0	+/-40.0	U	40.0	P	05/03/2023	19:07	LB125269
	Vanadium	40.0	+/-40.0	U	40.0	P	05/03/2023	19:07	LB125269
	Zinc	40.0	+/-40.0	U	40.0	P	05/03/2023	19:07	LB125269

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	05/04/2023	13:47	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	13:47	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	13:47	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	13:47	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	13:47	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	13:47	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	13:47	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	13:47	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	13:47	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	13:47	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	13:47	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	13:47	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	13:47	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	13:47	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	13:47	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	13:47	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	13:47	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	13:47	LB125287
	Sodium	2000	+/-2000	U	2000	P	05/04/2023	13:47	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	13:47	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	13:47	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	13:47	LB125287

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	05/04/2023	14:18	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	14:18	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	14:18	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	14:18	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	14:18	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	14:18	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	14:18	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	14:18	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	14:18	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	14:18	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	14:18	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	14:18	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	14:18	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	14:18	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	14:18	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	14:18	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	14:18	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	14:18	LB125287
	Sodium	2000	+/-2000	U	2000	P	05/04/2023	14:18	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	14:18	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	14:18	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	14:18	LB125287
CCB02	Aluminum	100	+/-100	U	100	P	05/04/2023	15:09	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	15:09	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	15:09	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	15:09	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	15:09	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	15:09	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	15:09	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	15:09	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	15:09	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	15:09	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	15:09	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	15:09	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	15:09	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	15:09	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	15:09	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	15:09	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	15:09	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	15:09	LB125287

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Sodium	2000	+/-2000	U	2000	P	05/04/2023	15:09	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	15:09	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	15:09	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	15:09	LB125287
CCB03	Aluminum	100	+/-100	U	100	P	05/04/2023	15:57	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	15:57	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	15:57	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	15:57	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	15:57	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	15:57	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	15:57	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	15:57	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	15:57	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	15:57	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	15:57	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	15:57	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	15:57	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	15:57	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	15:57	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	15:57	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	15:57	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	15:57	LB125287
	Sodium	1020	+/-2000	J	2000	P	05/04/2023	15:57	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	15:57	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	15:57	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	15:57	LB125287
CCB04	Aluminum	100	+/-100	U	100	P	05/04/2023	16:55	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	16:55	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	16:55	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	16:55	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	16:55	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	16:55	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	16:55	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	16:55	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	16:55	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	16:55	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	16:55	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	16:55	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	16:55	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	16:55	LB125287

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	16:55	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	16:55	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	16:55	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	16:55	LB125287
	Sodium	2000	+/-2000	U	2000	P	05/04/2023	16:55	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	16:55	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	16:55	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	16:55	LB125287
CCB05	Aluminum	100	+/-100	U	100	P	05/04/2023	17:47	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	17:47	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	17:47	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	17:47	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	17:47	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	17:47	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	17:47	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	17:47	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	17:47	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	17:47	LB125287
	Iron	100	+/-100	U	100	P	05/04/2023	17:47	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	17:47	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	17:47	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	17:47	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	17:47	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	17:47	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	17:47	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	17:47	LB125287
	Sodium	2000	+/-2000	U	2000	P	05/04/2023	17:47	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	17:47	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	17:47	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	17:47	LB125287
CCB06	Aluminum	100	+/-100	U	100	P	05/04/2023	18:17	LB125287
	Antimony	50.0	+/-50.0	U	50.0	P	05/04/2023	18:17	LB125287
	Arsenic	20.0	+/-20.0	U	20.0	P	05/04/2023	18:17	LB125287
	Barium	100	+/-100	U	100	P	05/04/2023	18:17	LB125287
	Beryllium	6.00	+/-6.00	U	6.00	P	05/04/2023	18:17	LB125287
	Cadmium	6.00	+/-6.00	U	6.00	P	05/04/2023	18:17	LB125287
	Calcium	2000	+/-2000	U	2000	P	05/04/2023	18:17	LB125287
	Chromium	10.0	+/-10.0	U	10.0	P	05/04/2023	18:17	LB125287
	Cobalt	30.0	+/-30.0	U	30.0	P	05/04/2023	18:17	LB125287
	Copper	20.0	+/-20.0	U	20.0	P	05/04/2023	18:17	LB125287

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Iron	100	+/-100	U	100	P	05/04/2023	18:17	LB125287
	Lead	12.0	+/-12.0	U	12.0	P	05/04/2023	18:17	LB125287
	Magnesium	2000	+/-2000	U	2000	P	05/04/2023	18:17	LB125287
	Manganese	20.0	+/-20.0	U	20.0	P	05/04/2023	18:17	LB125287
	Nickel	40.0	+/-40.0	U	40.0	P	05/04/2023	18:17	LB125287
	Potassium	2000	+/-2000	U	2000	P	05/04/2023	18:17	LB125287
	Selenium	20.0	+/-20.0	U	20.0	P	05/04/2023	18:17	LB125287
	Silver	10.0	+/-10.0	U	10.0	P	05/04/2023	18:17	LB125287
	Sodium	2000	+/-2000	U	2000	P	05/04/2023	18:17	LB125287
	Thallium	40.0	+/-40.0	U	40.0	P	05/04/2023	18:17	LB125287
	Vanadium	40.0	+/-40.0	U	40.0	P	05/04/2023	18:17	LB125287
	Zinc	40.0	+/-40.0	U	40.0	P	05/04/2023	18:17	LB125287

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	05/11/2023	15:51	LB125428
	Antimony	50.0	+/-50.0	U	50.0	P	05/11/2023	15:51	LB125428
	Arsenic	20.0	+/-20.0	U	20.0	P	05/11/2023	15:51	LB125428
	Barium	100	+/-100	U	100	P	05/11/2023	15:51	LB125428
	Beryllium	6.00	+/-6.00	U	6.00	P	05/11/2023	15:51	LB125428
	Cadmium	6.00	+/-6.00	U	6.00	P	05/11/2023	15:51	LB125428
	Calcium	2000	+/-2000	U	2000	P	05/11/2023	15:51	LB125428
	Chromium	10.0	+/-10.0	U	10.0	P	05/11/2023	15:51	LB125428
	Cobalt	30.0	+/-30.0	U	30.0	P	05/11/2023	15:51	LB125428
	Copper	20.0	+/-20.0	U	20.0	P	05/11/2023	15:51	LB125428
	Iron	100	+/-100	U	100	P	05/11/2023	15:51	LB125428
	Lead	12.0	+/-12.0	U	12.0	P	05/11/2023	15:51	LB125428
	Magnesium	2000	+/-2000	U	2000	P	05/11/2023	15:51	LB125428
	Manganese	20.0	+/-20.0	U	20.0	P	05/11/2023	15:51	LB125428
	Nickel	40.0	+/-40.0	U	40.0	P	05/11/2023	15:51	LB125428
	Potassium	2000	+/-2000	U	2000	P	05/11/2023	15:51	LB125428
	Selenium	20.0	+/-20.0	U	20.0	P	05/11/2023	15:51	LB125428
	Silver	10.0	+/-10.0	U	10.0	P	05/11/2023	15:51	LB125428
	Sodium	2000	+/-2000	U	2000	P	05/11/2023	15:51	LB125428
	Thallium	40.0	+/-40.0	U	40.0	P	05/11/2023	15:51	LB125428
	Vanadium	40.0	+/-40.0	U	40.0	P	05/11/2023	15:51	LB125428
	Zinc	40.0	+/-40.0	U	40.0	P	05/11/2023	15:51	LB125428

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	05/11/2023	16:27	LB125428
	Antimony	50.0	+/-50.0	U	50.0	P	05/11/2023	16:27	LB125428
	Arsenic	20.0	+/-20.0	U	20.0	P	05/11/2023	16:27	LB125428
	Barium	100	+/-100	U	100	P	05/11/2023	16:27	LB125428
	Beryllium	6.00	+/-6.00	U	6.00	P	05/11/2023	16:27	LB125428
	Cadmium	6.00	+/-6.00	U	6.00	P	05/11/2023	16:27	LB125428
	Calcium	2000	+/-2000	U	2000	P	05/11/2023	16:27	LB125428
	Chromium	10.0	+/-10.0	U	10.0	P	05/11/2023	16:27	LB125428
	Cobalt	30.0	+/-30.0	U	30.0	P	05/11/2023	16:27	LB125428
	Copper	20.0	+/-20.0	U	20.0	P	05/11/2023	16:27	LB125428
	Iron	100	+/-100	U	100	P	05/11/2023	16:27	LB125428
	Lead	12.0	+/-12.0	U	12.0	P	05/11/2023	16:27	LB125428
	Magnesium	2000	+/-2000	U	2000	P	05/11/2023	16:27	LB125428
	Manganese	20.0	+/-20.0	U	20.0	P	05/11/2023	16:27	LB125428
	Nickel	40.0	+/-40.0	U	40.0	P	05/11/2023	16:27	LB125428
	Potassium	2000	+/-2000	U	2000	P	05/11/2023	16:27	LB125428
	Selenium	20.0	+/-20.0	U	20.0	P	05/11/2023	16:27	LB125428
	Silver	10.0	+/-10.0	U	10.0	P	05/11/2023	16:27	LB125428
	Sodium	2000	+/-2000	U	2000	P	05/11/2023	16:27	LB125428
	Thallium	40.0	+/-40.0	U	40.0	P	05/11/2023	16:27	LB125428
	Vanadium	40.0	+/-40.0	U	40.0	P	05/11/2023	16:27	LB125428
	Zinc	40.0	+/-40.0	U	40.0	P	05/11/2023	16:27	LB125428
CCB02	Aluminum	100	+/-100	U	100	P	05/11/2023	17:20	LB125428
	Antimony	50.0	+/-50.0	U	50.0	P	05/11/2023	17:20	LB125428
	Arsenic	20.0	+/-20.0	U	20.0	P	05/11/2023	17:20	LB125428
	Barium	100	+/-100	U	100	P	05/11/2023	17:20	LB125428
	Beryllium	6.00	+/-6.00	U	6.00	P	05/11/2023	17:20	LB125428
	Cadmium	6.00	+/-6.00	U	6.00	P	05/11/2023	17:20	LB125428
	Calcium	2000	+/-2000	U	2000	P	05/11/2023	17:20	LB125428
	Chromium	10.0	+/-10.0	U	10.0	P	05/11/2023	17:20	LB125428
	Cobalt	30.0	+/-30.0	U	30.0	P	05/11/2023	17:20	LB125428
	Copper	20.0	+/-20.0	U	20.0	P	05/11/2023	17:20	LB125428
	Iron	100	+/-100	U	100	P	05/11/2023	17:20	LB125428
	Lead	12.0	+/-12.0	U	12.0	P	05/11/2023	17:20	LB125428
	Magnesium	2000	+/-2000	U	2000	P	05/11/2023	17:20	LB125428
	Manganese	20.0	+/-20.0	U	20.0	P	05/11/2023	17:20	LB125428
	Nickel	40.0	+/-40.0	U	40.0	P	05/11/2023	17:20	LB125428
	Potassium	2000	+/-2000	U	2000	P	05/11/2023	17:20	LB125428
	Selenium	20.0	+/-20.0	U	20.0	P	05/11/2023	17:20	LB125428
	Silver	10.0	+/-10.0	U	10.0	P	05/11/2023	17:20	LB125428

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Sodium	2000	+/-2000	U	2000	P	05/11/2023	17:20	LB125428
	Thallium	40.0	+/-40.0	U	40.0	P	05/11/2023	17:20	LB125428
	Vanadium	40.0	+/-40.0	U	40.0	P	05/11/2023	17:20	LB125428
	Zinc	40.0	+/-40.0	U	40.0	P	05/11/2023	17:20	LB125428
CCB03	Aluminum	100	+/-100	U	100	P	05/11/2023	18:21	LB125428
	Antimony	50.0	+/-50.0	U	50.0	P	05/11/2023	18:21	LB125428
	Arsenic	20.0	+/-20.0	U	20.0	P	05/11/2023	18:21	LB125428
	Barium	100	+/-100	U	100	P	05/11/2023	18:21	LB125428
	Beryllium	6.00	+/-6.00	U	6.00	P	05/11/2023	18:21	LB125428
	Cadmium	6.00	+/-6.00	U	6.00	P	05/11/2023	18:21	LB125428
	Calcium	2000	+/-2000	U	2000	P	05/11/2023	18:21	LB125428
	Chromium	10.0	+/-10.0	U	10.0	P	05/11/2023	18:21	LB125428
	Cobalt	30.0	+/-30.0	U	30.0	P	05/11/2023	18:21	LB125428
	Copper	20.0	+/-20.0	U	20.0	P	05/11/2023	18:21	LB125428
	Iron	100	+/-100	U	100	P	05/11/2023	18:21	LB125428
	Lead	12.0	+/-12.0	U	12.0	P	05/11/2023	18:21	LB125428
	Magnesium	2000	+/-2000	U	2000	P	05/11/2023	18:21	LB125428
	Manganese	20.0	+/-20.0	U	20.0	P	05/11/2023	18:21	LB125428
	Nickel	40.0	+/-40.0	U	40.0	P	05/11/2023	18:21	LB125428
	Potassium	2000	+/-2000	U	2000	P	05/11/2023	18:21	LB125428
	Selenium	20.0	+/-20.0	U	20.0	P	05/11/2023	18:21	LB125428
	Silver	10.0	+/-10.0	U	10.0	P	05/11/2023	18:21	LB125428
	Sodium	1440	+/-2000	J	2000	P	05/11/2023	18:21	LB125428
	Thallium	40.0	+/-40.0	U	40.0	P	05/11/2023	18:21	LB125428
	Vanadium	40.0	+/-40.0	U	40.0	P	05/11/2023	18:21	LB125428
	Zinc	40.0	+/-40.0	U	40.0	P	05/11/2023	18:21	LB125428
CCB04	Aluminum	100	+/-100	U	100	P	05/11/2023	19:05	LB125428
	Antimony	50.0	+/-50.0	U	50.0	P	05/11/2023	19:05	LB125428
	Arsenic	20.0	+/-20.0	U	20.0	P	05/11/2023	19:05	LB125428
	Barium	100	+/-100	U	100	P	05/11/2023	19:05	LB125428
	Beryllium	6.00	+/-6.00	U	6.00	P	05/11/2023	19:05	LB125428
	Cadmium	6.00	+/-6.00	U	6.00	P	05/11/2023	19:05	LB125428
	Calcium	2000	+/-2000	U	2000	P	05/11/2023	19:05	LB125428
	Chromium	10.0	+/-10.0	U	10.0	P	05/11/2023	19:05	LB125428
	Cobalt	30.0	+/-30.0	U	30.0	P	05/11/2023	19:05	LB125428
	Copper	20.0	+/-20.0	U	20.0	P	05/11/2023	19:05	LB125428
	Iron	100	+/-100	U	100	P	05/11/2023	19:05	LB125428
	Lead	12.0	+/-12.0	U	12.0	P	05/11/2023	19:05	LB125428
	Magnesium	2000	+/-2000	U	2000	P	05/11/2023	19:05	LB125428
	Manganese	20.0	+/-20.0	U	20.0	P	05/11/2023	19:05	LB125428

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Nickel	40.0	+/-40.0	U	40.0	P	05/11/2023	19:05	LB125428
	Potassium	2000	+/-2000	U	2000	P	05/11/2023	19:05	LB125428
	Selenium	20.0	+/-20.0	U	20.0	P	05/11/2023	19:05	LB125428
	Silver	10.0	+/-10.0	U	10.0	P	05/11/2023	19:05	LB125428
	Sodium	929	+/-2000	J	2000	P	05/11/2023	19:05	LB125428
	Thallium	40.0	+/-40.0	U	40.0	P	05/11/2023	19:05	LB125428
	Vanadium	40.0	+/-40.0	U	40.0	P	05/11/2023	19:05	LB125428
	Zinc	40.0	+/-40.0	U	40.0	P	05/11/2023	19:05	LB125428
CCB05	Aluminum	100	+/-100	U	100	P	05/11/2023	19:53	LB125428
	Antimony	50.0	+/-50.0	U	50.0	P	05/11/2023	19:53	LB125428
	Arsenic	20.0	+/-20.0	U	20.0	P	05/11/2023	19:53	LB125428
	Barium	100	+/-100	U	100	P	05/11/2023	19:53	LB125428
	Beryllium	6.00	+/-6.00	U	6.00	P	05/11/2023	19:53	LB125428
	Cadmium	6.00	+/-6.00	U	6.00	P	05/11/2023	19:53	LB125428
	Calcium	2000	+/-2000	U	2000	P	05/11/2023	19:53	LB125428
	Chromium	10.0	+/-10.0	U	10.0	P	05/11/2023	19:53	LB125428
	Cobalt	30.0	+/-30.0	U	30.0	P	05/11/2023	19:53	LB125428
	Copper	20.0	+/-20.0	U	20.0	P	05/11/2023	19:53	LB125428
	Iron	100	+/-100	U	100	P	05/11/2023	19:53	LB125428
	Lead	12.0	+/-12.0	U	12.0	P	05/11/2023	19:53	LB125428
	Magnesium	2000	+/-2000	U	2000	P	05/11/2023	19:53	LB125428
	Manganese	20.0	+/-20.0	U	20.0	P	05/11/2023	19:53	LB125428
	Nickel	40.0	+/-40.0	U	40.0	P	05/11/2023	19:53	LB125428
	Potassium	2000	+/-2000	U	2000	P	05/11/2023	19:53	LB125428
	Selenium	20.0	+/-20.0	U	20.0	P	05/11/2023	19:53	LB125428
	Silver	10.0	+/-10.0	U	10.0	P	05/11/2023	19:53	LB125428
	Sodium	1800	+/-2000	J	2000	P	05/11/2023	19:53	LB125428
	Thallium	40.0	+/-40.0	U	40.0	P	05/11/2023	19:53	LB125428
	Vanadium	40.0	+/-40.0	U	40.0	P	05/11/2023	19:53	LB125428
	Zinc	40.0	+/-40.0	U	40.0	P	05/11/2023	19:53	LB125428
CCB06	Aluminum	100	+/-100	U	100	P	05/11/2023	20:41	LB125428
	Antimony	50.0	+/-50.0	U	50.0	P	05/11/2023	20:41	LB125428
	Arsenic	20.0	+/-20.0	U	20.0	P	05/11/2023	20:41	LB125428
	Barium	100	+/-100	U	100	P	05/11/2023	20:41	LB125428
	Beryllium	6.00	+/-6.00	U	6.00	P	05/11/2023	20:41	LB125428
	Cadmium	6.00	+/-6.00	U	6.00	P	05/11/2023	20:41	LB125428
	Calcium	2000	+/-2000	U	2000	P	05/11/2023	20:41	LB125428
	Chromium	10.0	+/-10.0	U	10.0	P	05/11/2023	20:41	LB125428
	Cobalt	30.0	+/-30.0	U	30.0	P	05/11/2023	20:41	LB125428
	Copper	20.0	+/-20.0	U	20.0	P	05/11/2023	20:41	LB125428

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Iron	100	+/-100	U	100	P	05/11/2023	20:41	LB125428
	Lead	12.0	+/-12.0	U	12.0	P	05/11/2023	20:41	LB125428
	Magnesium	2000	+/-2000	U	2000	P	05/11/2023	20:41	LB125428
	Manganese	20.0	+/-20.0	U	20.0	P	05/11/2023	20:41	LB125428
	Nickel	40.0	+/-40.0	U	40.0	P	05/11/2023	20:41	LB125428
	Potassium	2000	+/-2000	U	2000	P	05/11/2023	20:41	LB125428
	Selenium	20.0	+/-20.0	U	20.0	P	05/11/2023	20:41	LB125428
	Silver	10.0	+/-10.0	U	10.0	P	05/11/2023	20:41	LB125428
	Sodium	827	+/-2000	J	2000	P	05/11/2023	20:41	LB125428
	Thallium	40.0	+/-40.0	U	40.0	P	05/11/2023	20:41	LB125428
	Vanadium	40.0	+/-40.0	U	40.0	P	05/11/2023	20:41	LB125428
	Zinc	40.0	+/-40.0	U	40.0	P	05/11/2023	20:41	LB125428
CCB07	Aluminum	100	+/-100	U	100	P	05/11/2023	21:08	LB125428
	Antimony	50.0	+/-50.0	U	50.0	P	05/11/2023	21:08	LB125428
	Arsenic	20.0	+/-20.0	U	20.0	P	05/11/2023	21:08	LB125428
	Barium	100	+/-100	U	100	P	05/11/2023	21:08	LB125428
	Beryllium	6.00	+/-6.00	U	6.00	P	05/11/2023	21:08	LB125428
	Cadmium	6.00	+/-6.00	U	6.00	P	05/11/2023	21:08	LB125428
	Calcium	2000	+/-2000	U	2000	P	05/11/2023	21:08	LB125428
	Chromium	10.0	+/-10.0	U	10.0	P	05/11/2023	21:08	LB125428
	Cobalt	30.0	+/-30.0	U	30.0	P	05/11/2023	21:08	LB125428
	Copper	20.0	+/-20.0	U	20.0	P	05/11/2023	21:08	LB125428
	Iron	100	+/-100	U	100	P	05/11/2023	21:08	LB125428
	Lead	12.0	+/-12.0	U	12.0	P	05/11/2023	21:08	LB125428
	Magnesium	2000	+/-2000	U	2000	P	05/11/2023	21:08	LB125428
	Manganese	20.0	+/-20.0	U	20.0	P	05/11/2023	21:08	LB125428
	Nickel	40.0	+/-40.0	U	40.0	P	05/11/2023	21:08	LB125428
	Potassium	2000	+/-2000	U	2000	P	05/11/2023	21:08	LB125428
	Selenium	20.0	+/-20.0	U	20.0	P	05/11/2023	21:08	LB125428
	Silver	10.0	+/-10.0	U	10.0	P	05/11/2023	21:08	LB125428
	Sodium	590	+/-2000	J	2000	P	05/11/2023	21:08	LB125428
	Thallium	40.0	+/-40.0	U	40.0	P	05/11/2023	21:08	LB125428
	Vanadium	40.0	+/-40.0	U	40.0	P	05/11/2023	21:08	LB125428
	Zinc	40.0	+/-40.0	U	40.0	P	05/11/2023	21:08	LB125428

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Metals
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PREPARATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB152487BL		**WATER**		**Batch Number:**	**PB152487**		**Prep Date:**	**04/28/2023**	
	Mercury	0.20	<0.20	U	0.20	CV	04/28/2023	13:27	LB125204

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB152538BL		**WATER**		**Batch Number:**	**PB152538**		**Prep Date:**	**05/02/2023**	
	Mercury	0.20	<0.20	U	0.20	CV	05/02/2023	16:22	LB125251

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Metals
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PREPARATION BLANK SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB152450BL		**WATER**		**Batch Number:**	**PB152450**		**Prep Date:**	**05/03/2023**	
	Aluminum	50.0	<50.0	U	50.0	P	05/03/2023	18:39	LB125269
	Antimony	25.0	<25.0	U	25.0	P	05/03/2023	18:39	LB125269
	Arsenic	10.0	<10.0	U	10.0	P	05/03/2023	18:39	LB125269
	Barium	50.0	<50.0	U	50.0	P	05/03/2023	18:39	LB125269
	Beryllium	3.00	<3.00	U	3.00	P	05/03/2023	18:39	LB125269
	Cadmium	3.00	<3.00	U	3.00	P	05/03/2023	18:39	LB125269
	Calcium	1000	<1000	U	1000	P	05/03/2023	18:39	LB125269
	Chromium	5.00	<5.00	U	5.00	P	05/03/2023	18:39	LB125269
	Cobalt	15.0	<15.0	U	15.0	P	05/03/2023	18:39	LB125269
	Copper	10.0	<10.0	U	10.0	P	05/03/2023	18:39	LB125269
	Iron	50.0	<50.0	U	50.0	P	05/03/2023	18:39	LB125269
	Lead	6.00	<6.00	U	6.00	P	05/03/2023	18:39	LB125269
	Magnesium	1000	<1000	U	1000	P	05/03/2023	18:39	LB125269
	Manganese	10.0	<10.0	U	10.0	P	05/03/2023	18:39	LB125269
	Nickel	20.0	<20.0	U	20.0	P	05/03/2023	18:39	LB125269
	Potassium	1000	<1000	U	1000	P	05/03/2023	18:39	LB125269
	Selenium	10.0	<10.0	U	10.0	P	05/03/2023	18:39	LB125269
	Silver	0.95	<5.00	J	5.00	P	05/03/2023	18:39	LB125269
	Sodium	1000	<1000	U	1000	P	05/03/2023	18:39	LB125269
	Thallium	20.0	<20.0	U	20.0	P	05/03/2023	18:39	LB125269
	Vanadium	20.0	<20.0	U	20.0	P	05/03/2023	18:39	LB125269
	Zinc	20.0	<20.0	U	20.0	P	05/03/2023	18:39	LB125269

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Metals
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INTERFERENCE CHECK SAMPLE

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	260000	255000	102	216000	294000	05/03/2023	14:19	LB125269
	Antimony	2.06			-50	50	05/03/2023	14:19	LB125269
	Arsenic	-0.24			-20	20	05/03/2023	14:19	LB125269
	Barium	12.2	6.0	203	-94	106	05/03/2023	14:19	LB125269
	Beryllium	1.20			-6	6	05/03/2023	14:19	LB125269
	Cadmium	1.52	1.0	152	-5	7	05/03/2023	14:19	LB125269
	Calcium	245000	245000	100	208000	282000	05/03/2023	14:19	LB125269
	Chromium	52.7	52.0	101	42	62	05/03/2023	14:19	LB125269
	Cobalt	2.18			-30	30	05/03/2023	14:19	LB125269
	Copper	12.5	2.0	625	-18	22	05/03/2023	14:19	LB125269
	Iron	97400	101000	96	85600	116500	05/03/2023	14:19	LB125269
	Lead	-2.76			-12	12	05/03/2023	14:19	LB125269
	Magnesium	256000	255000	100	216000	294000	05/03/2023	14:19	LB125269
	Manganese	12.3	7.0	176	-13	27	05/03/2023	14:19	LB125269
	Nickel	3.56	2.0	178	-38	42	05/03/2023	14:19	LB125269
	Potassium	-84.5			0	0	05/03/2023	14:19	LB125269
	Selenium	5.85			-20	20	05/03/2023	14:19	LB125269
	Silver	0.32			-10	10	05/03/2023	14:19	LB125269
	Sodium	-96.6			0	0	05/03/2023	14:19	LB125269
	Thallium	-10.8			-40	40	05/03/2023	14:19	LB125269
	Vanadium	0.27			-40	40	05/03/2023	14:19	LB125269
	Zinc	-3.16			-40	40	05/03/2023	14:19	LB125269
ICSAB01	Aluminum	251000	247000	102	209000	285000	05/03/2023	14:23	LB125269
	Antimony	610	618	99	525	711	05/03/2023	14:23	LB125269
	Arsenic	105	104	101	88.4	120	05/03/2023	14:23	LB125269
	Barium	535	537	100	437	637	05/03/2023	14:23	LB125269
	Beryllium	493	495	100	420	570	05/03/2023	14:23	LB125269
	Cadmium	999	972	103	826	1120	05/03/2023	14:23	LB125269
	Calcium	237000	235000	101	199000	271000	05/03/2023	14:23	LB125269
	Chromium	508	542	94	460	624	05/03/2023	14:23	LB125269
	Cobalt	500	476	105	404	548	05/03/2023	14:23	LB125269
	Copper	502	511	98	434	588	05/03/2023	14:23	LB125269
	Iron	93500	99300	94	84400	114500	05/03/2023	14:23	LB125269
	Lead	48.1	49.0	98	37	61	05/03/2023	14:23	LB125269
	Magnesium	248000	248000	100	210000	286000	05/03/2023	14:23	LB125269
	Manganese	519	507	102	430	584	05/03/2023	14:23	LB125269
	Nickel	995	954	104	810	1100	05/03/2023	14:23	LB125269
	Potassium	-42.0			0	0	05/03/2023	14:23	LB125269
	Selenium	51.6	46.0	112	26	66	05/03/2023	14:23	LB125269
	Silver	193	201	96	170	232	05/03/2023	14:23	LB125269
	Sodium	-103			0	0	05/03/2023	14:23	LB125269
	Thallium	95.8	108	89	68	148	05/03/2023	14:23	LB125269
	Vanadium	482	491	98	417	565	05/03/2023	14:23	LB125269
	Zinc	1020	952	107	809	1095	05/03/2023	14:23	LB125269
ICSA01	Aluminum	256000	255000	100	216000	294000	05/04/2023	13:55	LB125287

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Metals
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INTERFERENCE CHECK SAMPLE

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Antimony	-0.32			-50	50	05/04/2023	13:55	LB125287
	Arsenic	-0.91			-20	20	05/04/2023	13:55	LB125287
	Barium	7.84	6.0	131	-94	106	05/04/2023	13:55	LB125287
	Beryllium	1.32			-6	6	05/04/2023	13:55	LB125287
	Cadmium	2.32	1.0	232	-5	7	05/04/2023	13:55	LB125287
	Calcium	245000	245000	100	208000	282000	05/04/2023	13:55	LB125287
	Chromium	55.1	52.0	106	42	62	05/04/2023	13:55	LB125287
	Cobalt	1.81			-30	30	05/04/2023	13:55	LB125287
	Copper	2.82	2.0	141	-18	22	05/04/2023	13:55	LB125287
	Iron	96700	101000	96	85600	116500	05/04/2023	13:55	LB125287
	Lead	-1.13			-12	12	05/04/2023	13:55	LB125287
	Magnesium	256000	255000	100	216000	294000	05/04/2023	13:55	LB125287
	Manganese	13.4	7.0	191	-13	27	05/04/2023	13:55	LB125287
	Nickel	3.31	2.0	166	-38	42	05/04/2023	13:55	LB125287
	Potassium	-57.3			0	0	05/04/2023	13:55	LB125287
	Selenium	2.64			-20	20	05/04/2023	13:55	LB125287
	Silver	-0.32			-10	10	05/04/2023	13:55	LB125287
	Sodium	-50.2			0	0	05/04/2023	13:55	LB125287
	Thallium	-6.74			-40	40	05/04/2023	13:55	LB125287
	Vanadium	3.92			-40	40	05/04/2023	13:55	LB125287
	Zinc	-3.08			-40	40	05/04/2023	13:55	LB125287
ICSAB01	Aluminum	260000	247000	105	209000	285000	05/04/2023	13:58	LB125287
	Antimony	621	618	100	525	711	05/04/2023	13:58	LB125287
	Arsenic	103	104	99	88.4	120	05/04/2023	13:58	LB125287
	Barium	532	537	99	437	637	05/04/2023	13:58	LB125287
	Beryllium	520	495	105	420	570	05/04/2023	13:58	LB125287
	Cadmium	1030	972	106	826	1120	05/04/2023	13:58	LB125287
	Calcium	249000	235000	106	199000	271000	05/04/2023	13:58	LB125287
	Chromium	554	542	102	460	624	05/04/2023	13:58	LB125287
	Cobalt	506	476	106	404	548	05/04/2023	13:58	LB125287
	Copper	498	511	98	434	588	05/04/2023	13:58	LB125287
	Iron	99700	99300	100	84400	114500	05/04/2023	13:58	LB125287
	Lead	49.9	49.0	102	37	61	05/04/2023	13:58	LB125287
	Magnesium	261000	248000	105	210000	286000	05/04/2023	13:58	LB125287
	Manganese	529	507	104	430	584	05/04/2023	13:58	LB125287
	Nickel	1010	954	106	810	1100	05/04/2023	13:58	LB125287
	Potassium	-92.0			0	0	05/04/2023	13:58	LB125287
	Selenium	53.1	46.0	115	26	66	05/04/2023	13:58	LB125287
	Silver	221	201	110	170	232	05/04/2023	13:58	LB125287
	Sodium	-54.2			0	0	05/04/2023	13:58	LB125287
	Thallium	96.5	108	89	68	148	05/04/2023	13:58	LB125287
	Vanadium	501	491	102	417	565	05/04/2023	13:58	LB125287
	Zinc	1070	952	112	809	1095	05/04/2023	13:58	LB125287
ICSA01	Aluminum	246000	255000	96	216000	294000	05/11/2023	15:59	LB125428
	Antimony	1.23			-50	50	05/11/2023	15:59	LB125428

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INTERFERENCE CHECK SAMPLE

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	-2.88			-20	20	05/11/2023	15:59	LB125428
	Barium	6.79	6.0	113	-94	106	05/11/2023	15:59	LB125428
	Beryllium	0.85			-6	6	05/11/2023	15:59	LB125428
	Cadmium	3.22	1.0	322	-5	7	05/11/2023	15:59	LB125428
	Calcium	244000	245000	100	208000	282000	05/11/2023	15:59	LB125428
	Chromium	56.4	52.0	108	42	62	05/11/2023	15:59	LB125428
	Cobalt	2.15			-30	30	05/11/2023	15:59	LB125428
	Copper	-14.1	2.0	705	-18	22	05/11/2023	15:59	LB125428
	Iron	100000	101000	99	85600	116500	05/11/2023	15:59	LB125428
	Lead	-3.53			-12	12	05/11/2023	15:59	LB125428
	Magnesium	257000	255000	101	216000	294000	05/11/2023	15:59	LB125428
	Manganese	13.5	7.0	193	-13	27	05/11/2023	15:59	LB125428
	Nickel	3.27	2.0	164	-38	42	05/11/2023	15:59	LB125428
	Potassium	-35.6			0	0	05/11/2023	15:59	LB125428
	Selenium	-0.65			-20	20	05/11/2023	15:59	LB125428
	Silver	0.90			-10	10	05/11/2023	15:59	LB125428
	Sodium	-22.9			0	0	05/11/2023	15:59	LB125428
	Thallium	-7.19			-40	40	05/11/2023	15:59	LB125428
	Vanadium	2.33			-40	40	05/11/2023	15:59	LB125428
	Zinc	-3.28			-40	40	05/11/2023	15:59	LB125428
ICSAB01	Aluminum	242000	247000	98	209000	285000	05/11/2023	16:03	LB125428
	Antimony	600	618	97	525	711	05/11/2023	16:03	LB125428
	Arsenic	102	104	98	88.4	120	05/11/2023	16:03	LB125428
	Barium	526	537	98	437	637	05/11/2023	16:03	LB125428
	Beryllium	539	495	109	420	570	05/11/2023	16:03	LB125428
	Cadmium	1030	972	106	826	1120	05/11/2023	16:03	LB125428
	Calcium	242000	235000	103	199000	271000	05/11/2023	16:03	LB125428
	Chromium	555	542	102	460	624	05/11/2023	16:03	LB125428
	Cobalt	499	476	105	404	548	05/11/2023	16:03	LB125428
	Copper	475	511	93	434	588	05/11/2023	16:03	LB125428
	Iron	93500	99300	94	84400	114500	05/11/2023	16:03	LB125428
	Lead	47.5	49.0	97	37	61	05/11/2023	16:03	LB125428
	Magnesium	254000	248000	102	210000	286000	05/11/2023	16:03	LB125428
	Manganese	515	507	102	430	584	05/11/2023	16:03	LB125428
	Nickel	988	954	104	810	1100	05/11/2023	16:03	LB125428
	Potassium	-24.2			0	0	05/11/2023	16:03	LB125428
	Selenium	42.8	46.0	93	26	66	05/11/2023	16:03	LB125428
	Silver	209	201	104	170	232	05/11/2023	16:03	LB125428
	Sodium	-14.5			0	0	05/11/2023	16:03	LB125428
	Thallium	98.5	108	91	68	148	05/11/2023	16:03	LB125428
	Vanadium	501	491	102	417	565	05/11/2023	16:03	LB125428
	Zinc	1030	952	108	809	1095	05/11/2023	16:03	LB125428

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: GEI Consultants, Inc., P.C. **level:** low **sdg no.:** O2521

contract: GEIC06 **lab code:** CHEM **case no.:** O2521 **sas no.:** O2521

matrix: Water **sample id:** O2521-07 **client id:** GMW-7MS

Percent Solids for Sample: NA **Spiked ID:** O2521-09 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1630		2230		1000	-60	N	P
Antimony	ug/L	75 - 125	403		2.16	J	400	100		P
Arsenic	ug/L	75 - 125	405		10.0	U	400	101		P
Barium	ug/L	75 - 125	514		290		100	224	N	P
Beryllium	ug/L	75 - 125	87.8		3.00	U	100	88		P
Cadmium	ug/L	75 - 125	90.8		1.47	J	100	89		P
Calcium	ug/L	75 - 125	150000		145000		500	862		P
Chromium	ug/L	75 - 125	180		9.98		200	85		P
Cobalt	ug/L	75 - 125	94.9		2.59	J	100	92		P
Copper	ug/L	75 - 125	222		61.7		150	107		P
Iron	ug/L	75 - 125	18800		4730		1500	939	N	P
Lead	ug/L	75 - 125	552		49.5		500	101		P
Magnesium	ug/L	75 - 125	24900		26900		1000	-206		P
Manganese	ug/L	75 - 125	979		249		100	730	N	P
Mercury	ug/L	75 - 125	4.62		0.083	J	4.0	113		CV
Nickel	ug/L	75 - 125	247		20.0		250	91		P
Potassium	ug/L	75 - 125	39700		20900		5000	377		P
Selenium	ug/L	75 - 125	972		10.0	U	1000	97		P
Silver	ug/L	75 - 125	36.7		5.00	U	37.5	98		P
Sodium	ug/L	75 - 125	17700		32800		1500	-1005		P
Thallium	ug/L	75 - 125	897		20.0	U	1000	90		P
Vanadium	ug/L	75 - 125	159		4.55	J	150	103		P
Zinc	ug/L	75 - 125	212		185		100	27	N	P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: GEI Consultants, Inc., P.C. **level:** low **sdg no.:** O2521

contract: GEIC06 **lab code:** CHEM **case no.:** O2521 **sas no.:** O2521

matrix: Water **sample id:** O2521-07 **client id:** GMW-7MSD

Percent Solids for Sample: NA **Spiked ID:** O2521-10 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1640		2230		1000	-59	N	P
Antimony	ug/L	75 - 125	416		2.16	J	400	103		P
Arsenic	ug/L	75 - 125	418		10.0	U	400	104		P
Barium	ug/L	75 - 125	522		290		100	232	N	P
Beryllium	ug/L	75 - 125	89.2		3.00	U	100	89		P
Cadmium	ug/L	75 - 125	94.2		1.47	J	100	93		P
Calcium	ug/L	75 - 125	153000		145000		500	1561		P
Chromium	ug/L	75 - 125	187		9.98		200	89		P
Cobalt	ug/L	75 - 125	98.5		2.59	J	100	96		P
Copper	ug/L	75 - 125	227		61.7		150	111		P
Iron	ug/L	75 - 125	19300		4730		1500	969	N	P
Lead	ug/L	75 - 125	571		49.5		500	104		P
Magnesium	ug/L	75 - 125	25300		26900		1000	-165		P
Manganese	ug/L	75 - 125	990		249		100	741	N	P
Mercury	ug/L	75 - 125	4.36		0.083	J	4.0	107		CV
Nickel	ug/L	75 - 125	255		20.0		250	94		P
Potassium	ug/L	75 - 125	40800		20900		5000	398		P
Selenium	ug/L	75 - 125	1010		10.0	U	1000	101		P
Silver	ug/L	75 - 125	37.1		5.00	U	37.5	99		P
Sodium	ug/L	75 - 125	18200		32800		1500	-972		P
Thallium	ug/L	75 - 125	932		20.0	U	1000	93		P
Vanadium	ug/L	75 - 125	163		4.55	J	150	105		P
Zinc	ug/L	75 - 125	215		185		100	30	N	P

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metals
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MATRIX SPIKE SUMMARY

client: GEI Consultants, Inc., P.C. **level:** low **sdg no.:** O2521

contract: GEIC06 **lab code:** CHEM **case no.:** O2521 **sas no.:** O2521

matrix: Water **sample id:** O2521-08 **client id:** GMW-7MS

Percent Solids for Sample: NA **Spiked ID:** O2521-11 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1050		145		1000	91		P
Antimony	ug/L	75 - 125	396		25.0	U	400	99		P
Arsenic	ug/L	75 - 125	399		10.0	U	400	100		P
Barium	ug/L	75 - 125	389		233		100	155	N	P
Beryllium	ug/L	75 - 125	86.5		3.00	U	100	86		P
Cadmium	ug/L	75 - 125	87.9		0.23	J	100	88		P
Calcium	ug/L	75 - 125	134000		137000		500	-690		P
Chromium	ug/L	75 - 125	175		5.00	U	200	88		P
Cobalt	ug/L	75 - 125	92.6		0.84	J	100	92		P
Copper	ug/L	75 - 125	150		22.3		150	85		P
Iron	ug/L	75 - 125	1450		24.9	J	1500	95		P
Lead	ug/L	75 - 125	462		6.00	U	500	92		P
Magnesium	ug/L	75 - 125	23800		25800		1000	-198		P
Manganese	ug/L	75 - 125	713		207		100	506	N	P
Mercury	ug/L	75 - 125	3.61		0.20	U	4.0	90		CV
Nickel	ug/L	75 - 125	238		8.17	J	250	92		P
Potassium	ug/L	75 - 125	39000		20500		5000	371		P
Selenium	ug/L	75 - 125	977		10.0	U	1000	98		P
Silver	ug/L	75 - 125	36.8		5.00	U	37.5	98		P
Sodium	ug/L	75 - 125	18100		32800		1500	-983		P
Thallium	ug/L	75 - 125	889		20.0	U	1000	89		P
Vanadium	ug/L	75 - 125	137		20.0	U	150	91		P
Zinc	ug/L	75 - 125	117		70.2		100	47	N	P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: GEI Consultants, Inc., P.C. **level:** low **sdg no.:** O2521

contract: GEIC06 **lab code:** CHEM **case no.:** O2521 **sas no.:** O2521

matrix: Water **sample id:** O2521-08 **client id:** GMW-7MSD

Percent Solids for Sample: NA **Spiked ID:** O2521-12 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1040		145		1000	89		P
Antimony	ug/L	75 - 125	395		25.0	U	400	99		P
Arsenic	ug/L	75 - 125	400		10.0	U	400	100		P
Barium	ug/L	75 - 125	383		233		100	149	N	P
Beryllium	ug/L	75 - 125	85.9		3.00	U	100	86		P
Cadmium	ug/L	75 - 125	88.5		0.23	J	100	88		P
Calcium	ug/L	75 - 125	131000		137000		500	-1149		P
Chromium	ug/L	75 - 125	173		5.00	U	200	86		P
Cobalt	ug/L	75 - 125	93.1		0.84	J	100	92		P
Copper	ug/L	75 - 125	151		22.3		150	85		P
Iron	ug/L	75 - 125	1430		24.9	J	1500	94		P
Lead	ug/L	75 - 125	466		6.00	U	500	93		P
Magnesium	ug/L	75 - 125	23300		25800		1000	-251		P
Manganese	ug/L	75 - 125	706		207		100	499	N	P
Mercury	ug/L	75 - 125	3.50		0.20	U	4.0	88		CV
Nickel	ug/L	75 - 125	240		8.17	J	250	93		P
Potassium	ug/L	75 - 125	37800		20500		5000	346		P
Selenium	ug/L	75 - 125	977		10.0	U	1000	98		P
Silver	ug/L	75 - 125	36.4		5.00	U	37.5	97		P
Sodium	ug/L	75 - 125	17500		32800		1500	-1023		P
Thallium	ug/L	75 - 125	890		20.0	U	1000	89		P
Vanadium	ug/L	75 - 125	136		20.0	U	150	91		P
Zinc	ug/L	75 - 125	114		70.2		100	44	N	P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Matrix: Water **Level:** LOW **Client ID:** GMW-7A

Sample ID: O2521-07 **Spiked ID:** O2521-07A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	3090		2230		1000	86		P
Barium	ug/L	75 - 125	391		290		100	101		P
Iron	ug/L	75 - 125	6080		4730		1500	90		P
Manganese	ug/L	75 - 125	353		249		100	104		P
Zinc	ug/L	75 - 125	284		185		100	99		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Matrix: Water **Level:** LOW **Client ID:** GMW-7A

Sample ID: O2521-08 **Spiked ID:** O2521-08A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	ug/L	75 - 125	336		233		100	102		P
Manganese	ug/L	75 - 125	309		207		100	102		P
Zinc	ug/L	75 - 125	172		70.2		100	102		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **Level:** LOW **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Matrix: Water **Sample ID:** O2521-07 **Client ID:** GMW-7DUP

Percent Solids for Sample: NA **Duplicate ID** O2521-07DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	2230		2140		4		P
Antimony	ug/L	20	2.16	J	2.11	J	2		P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	290		288		1		P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	1.47	J	1.47	J	0		P
Calcium	ug/L	20	145000		144000		1		P
Chromium	ug/L	20	9.98		9.68		3		P
Cobalt	ug/L	20	2.59	J	2.61	J	1		P
Copper	ug/L	20	61.7		61.2		1		P
Iron	ug/L	20	4730		4590		3		P
Lead	ug/L	20	49.5		49.5		0		P
Magnesium	ug/L	20	26900		26900		0		P
Manganese	ug/L	20	249		249		0		P
Mercury	ug/L	20	0.083	J	0.090	J	8		CV
Nickel	ug/L	20	20.0		19.9	J	1		P
Potassium	ug/L	20	20900		20500		2		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	32800		32200		2		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	4.55	J	4.32	J	5		P
Zinc	ug/L	20	185		182		2		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **Level:** LOW **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Matrix: Water **Sample ID:** O2521-08 **Client ID:** GMW-7DUP

Percent Solids for Sample: NA **Duplicate ID** O2521-08DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.20	U	0.20	U			CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **Level:** LOW **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Matrix: Water **Sample ID:** O2521-09 **Client ID:** GMW-7MSD

Percent Solids for Sample: NA **Duplicate ID** O2521-10 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	1630		1640		1		P
Antimony	ug/L	20	403		416		3		P
Arsenic	ug/L	20	405		418		3		P
Barium	ug/L	20	514		522		2		P
Beryllium	ug/L	20	87.8		89.2		2		P
Cadmium	ug/L	20	90.8		94.2		4		P
Calcium	ug/L	20	150000		153000		2		P
Chromium	ug/L	20	180		187		4		P
Cobalt	ug/L	20	94.9		98.5		4		P
Copper	ug/L	20	222		227		2		P
Iron	ug/L	20	18800		19300		3		P
Lead	ug/L	20	552		571		3		P
Magnesium	ug/L	20	24900		25300		2		P
Manganese	ug/L	20	979		990		1		P
Mercury	ug/L	20	4.62		4.36		6		CV
Nickel	ug/L	20	247		255		3		P
Potassium	ug/L	20	39700		40800		3		P
Selenium	ug/L	20	972		1010		4		P
Silver	ug/L	20	36.7		37.1		1		P
Sodium	ug/L	20	17700		18200		3		P
Thallium	ug/L	20	897		932		4		P
Vanadium	ug/L	20	159		163		2		P
Zinc	ug/L	20	212		215		1		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **Level:** LOW **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Matrix: Water **Sample ID:** O2521-11 **Client ID:** GMW-7MSD

Percent Solids for Sample: NA **Duplicate ID** O2521-12 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	1050		1040		1		P
Antimony	ug/L	20	396		395		0		P
Arsenic	ug/L	20	399		400		0		P
Barium	ug/L	20	389		383		2		P
Beryllium	ug/L	20	86.5		85.9		1		P
Cadmium	ug/L	20	87.9		88.5		1		P
Calcium	ug/L	20	134000		131000		2		P
Chromium	ug/L	20	175		173		1		P
Cobalt	ug/L	20	92.6		93.1		1		P
Copper	ug/L	20	150		151		1		P
Iron	ug/L	20	1450		1430		1		P
Lead	ug/L	20	462		466		1		P
Magnesium	ug/L	20	23800		23300		2		P
Manganese	ug/L	20	713		706		1		P
Mercury	ug/L	20	3.61		3.50		3		CV
Nickel	ug/L	20	238		240		1		P
Potassium	ug/L	20	39000		37800		3		P
Selenium	ug/L	20	977		977		0		P
Silver	ug/L	20	36.8		36.4		1		P
Sodium	ug/L	20	18100		17500		3		P
Thallium	ug/L	20	889		890		0		P
Vanadium	ug/L	20	137		136		1		P
Zinc	ug/L	20	117		114		3		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB152450BS							
Aluminum	ug/L	1000	938		94	80 - 120	P
Antimony	ug/L	400	388		97	80 - 120	P
Arsenic	ug/L	400	390		98	80 - 120	P
Barium	ug/L	100	105		105	80 - 120	P
Beryllium	ug/L	100	93.5		94	80 - 120	P
Cadmium	ug/L	100	91.1		91	80 - 120	P
Calcium	ug/L	500	472	J	94	80 - 120	P
Chromium	ug/L	200	168		84	80 - 120	P
Cobalt	ug/L	100	93.5		94	80 - 120	P
Copper	ug/L	150	148		99	80 - 120	P
Iron	ug/L	1500	1370		91	80 - 120	P
Lead	ug/L	500	479		96	80 - 120	P
Magnesium	ug/L	1000	956	J	96	80 - 120	P
Manganese	ug/L	100	103		103	80 - 120	P
Nickel	ug/L	250	240		96	80 - 120	P
Potassium	ug/L	5000	4520		90	80 - 120	P
Selenium	ug/L	1000	944		94	80 - 120	P
Silver	ug/L	37.5	32.9		88	80 - 120	P
Sodium	ug/L	1500	1200		80	80 - 120	P
Thallium	ug/L	1000	944		94	80 - 120	P
Vanadium	ug/L	150	139		93	80 - 120	P
Zinc	ug/L	100	98.0		98	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB152487BS							
Mercury	ug/L	4.0	3.69		92	80 - 120	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB152538BS							
Mercury	ug/L	4.0	3.53		88	80 - 120	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

GMW-7L

Lab Name: Chemtech Consulting Group **Contract:** GEIC06

Lab Code: CHEM **Lb No.:** lb125287 **Lab Sample ID :** O2521-07L **SDG No.:** O2521

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	2230		2000		10		P
Antimony	2.16	J	125	U	100.0		P
Arsenic	10.0	U	50.0	U			P
Barium	290		279		4		P
Beryllium	3.00	U	15.0	U			P
Cadmium	1.47	J	1.31	J	11		P
Calcium	145000		138000		5		P
Chromium	9.98		7.35	J	26		P
Cobalt	2.59	J	2.44	J	6		P
Copper	61.7		62.6		1		P
Iron	4730		4330		8		P
Lead	49.5		47.4		4		P
Magnesium	26900		26800		0		P
Manganese	249		244		2		P
Mercury	0.083	J	1.00	U	100.0		CV
Nickel	20.0		19.7	J	1		P
Potassium	20900		18800		10		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	32800		29100		11		P
Thallium	20.0	U	100	U			P
Vanadium	4.55	J	100	U	100.0		P
Zinc	185		170		8		P

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ICP SERIAL DILUTIONS

SAMPLE NO.

GMW-7L

Lab Name: Chemtech Consulting Group **Contract:** GEIC06

Lab Code: CHEM **Lb No.:** lb125251 **Lab Sample ID :** O2521-08L **SDG No.:** O2521

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.20	U	1.00	U			CV

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Instrument ID: _____ **Date:** _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Instrument ID: _____ **Date:** _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Instrument ID: _____ **Date:** _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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ICP INTERELEMENT CORRECTION FACTORS

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Case No.:** O2521 **SAS No.:** O2521

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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SAMPLE PREPARATION SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Method:**

Case No.: O2521 **SAS No.:** O2521

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB152450**						
O2521-01	GMW-1	SAM	WATER	05/03/2023	50.0	25.0	
O2521-02	GMW-1	SAM	WATER	05/03/2023	50.0	25.0	
O2521-03	PZ-15	SAM	WATER	05/03/2023	50.0	25.0	
O2521-04	PZ-15	SAM	WATER	05/03/2023	50.0	25.0	
O2521-05	GMW-10	SAM	WATER	05/03/2023	50.0	25.0	
O2521-06	GMW-10	SAM	WATER	05/03/2023	50.0	25.0	
O2521-07	GMW-7	SAM	WATER	05/03/2023	50.0	25.0	
O2521-07DUP	GMW-7DUP	DUP	WATER	05/03/2023	50.0	25.0	
O2521-08	GMW-7	SAM	WATER	05/03/2023	50.0	25.0	
O2521-09	GMW-7MS	MS	WATER	05/03/2023	50.0	25.0	
O2521-10	GMW-7MSD	MSD	WATER	05/03/2023	50.0	25.0	
O2521-11	GMW-7MS	MS	WATER	05/03/2023	50.0	25.0	
O2521-12	GMW-7MSD	MSD	WATER	05/03/2023	50.0	25.0	
O2521-14	FB	SAM	WATER	05/03/2023	50.0	25.0	
O2521-15	FB	SAM	WATER	05/03/2023	50.0	25.0	
PB152450BL	PB152450BL	MB	WATER	05/03/2023	50.0	25.0	
PB152450BS	PB152450BS	LCS	WATER	05/03/2023	50.0	25.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Method:**

Case No.: O2521 **SAS No.:** O2521

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB152487**						
O2521-01	GMW-1	SAM	WATER	04/28/2023	30.0	30.0	
O2521-03	PZ-15	SAM	WATER	04/28/2023	30.0	30.0	
O2521-05	GMW-10	SAM	WATER	04/28/2023	30.0	30.0	
O2521-07	GMW-7	SAM	WATER	04/28/2023	30.0	30.0	
O2521-07DUP	GMW-7DUP	DUP	WATER	04/28/2023	30.0	30.0	
O2521-09	GMW-7MS	MS	WATER	04/28/2023	30.0	30.0	
O2521-10	GMW-7MSD	MSD	WATER	04/28/2023	30.0	30.0	
O2521-14	FB	SAM	WATER	04/28/2023	30.0	30.0	
PB152487BL	PB152487BL	MB	WATER	04/28/2023	30.0	30.0	
PB152487BS	PB152487BS	LCS	WATER	04/28/2023	30.0	30.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Contract: GEIC06 **Lab Code:** CHEM **Method:**

Case No.: O2521 **SAS No.:** O2521

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB152538**						
O2521-02	GMW-1	SAM	WATER	05/02/2023	30.0	30.0	
O2521-04	PZ-15	SAM	WATER	05/02/2023	30.0	30.0	
O2521-06	GMW-10	SAM	WATER	05/02/2023	30.0	30.0	
O2521-08	GMW-7	SAM	WATER	05/02/2023	30.0	30.0	
O2521-08DUP	GMW-7DUP	DUP	WATER	05/02/2023	30.0	30.0	
O2521-11	GMW-7MS	MS	WATER	05/02/2023	30.0	30.0	
O2521-12	GMW-7MSD	MSD	WATER	05/02/2023	30.0	30.0	
O2521-15	FB	SAM	WATER	05/02/2023	30.0	30.0	
PB152538BL	PB152538BL	MB	WATER	05/02/2023	30.0	30.0	
PB152538BS	PB152538BS	LCS	WATER	05/02/2023	30.0	30.0	

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ANALYSIS RUN LOG

Client: GEI Consultants, Inc., P.C. **Contract:** GEIC06

Lab code: CHEM **Case no.:** O2521 **Sas no.:** O2521 **Sdg no.:** O2521

Instrument id number: **Method:** **Run number:** LB125204

Start date: 04/28/2023 **End date:** 04/28/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1249	HG
S0.2	S0.2	1	1252	HG
S2.5	S2.5	1	1254	HG
S5	S5	1	1256	HG
S7.5	S7.5	1	1258	HG
S10	S10	1	1301	HG
ICV53	ICV53	1	1311	HG
ICB53	ICB53	1	1314	HG
CCV79	CCV79	1	1316	HG
CCB79	CCB79	1	1318	HG
CRA	CRA	1	1320	HG
PB152487BL	PB152487BL	1	1327	HG
PB152487BS	PB152487BS	1	1329	HG
CCV80	CCV80	1	1343	HG
CCB80	CCB80	1	1345	HG
O2521-01	GMW-1	1	1352	HG
O2521-03	PZ-15	1	1354	HG
O2521-05	GMW-10	1	1357	HG
O2521-07	GMW-7	1	1359	HG
O2521-07DUP	GMW-7DUP	1	1401	HG
O2521-09	GMW-7MS	1	1407	HG
O2521-10	GMW-7MSD	1	1409	HG
O2521-14	FB	1	1411	HG
CCV81	CCV81	1	1414	HG
CCB81	CCB81	1	1416	HG
O2521-07L	GMW-7L	5	1420	HG
CCV82	CCV82	1	1430	HG
CCB82	CCB82	1	1433	HG

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ANALYSIS RUN LOG

Client: GEI Consultants, Inc., P.C. **Contract:** GEIC06

Lab code: CHEM **Case no.:** O2521 **Sas no.:** O2521 **Sdg no.:** O2521

Instrument id number: **Method:** **Run number:** LB125251

Start date: 05/02/2023 **End date:** 05/02/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1551	HG
S0.2	S0.2	1	1554	HG
S2.5	S2.5	1	1556	HG
S5	S5	1	1558	HG
S7.5	S7.5	1	1601	HG
S10	S10	1	1603	HG
ICV58	ICV58	1	1606	HG
ICB58	ICB58	1	1608	HG
CCV98	CCV98	1	1610	HG
CCB98	CCB98	1	1613	HG
CRA	CRA	1	1615	HG
PB152538BL	PB152538BL	1	1622	HG
PB152538BS	PB152538BS	1	1624	HG
CCV99	CCV99	1	1638	HG
CCB99	CCB99	1	1640	HG
O2521-02	GMW-1	1	1642	HG
O2521-04	PZ-15	1	1644	HG
O2521-06	GMW-10	1	1647	HG
O2521-08	GMW-7	1	1649	HG
O2521-08DUP	GMW-7DUP	1	1651	HG
O2521-11	GMW-7MS	1	1653	HG
O2521-12	GMW-7MSD	1	1656	HG
O2521-15	FB	1	1658	HG
O2521-08L	GMW-7L	5	1700	HG
CCV01	CCV01	1	1705	HG
CCB01	CCB01	1	1707	HG

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metals
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ANALYSIS RUN LOG

Client: GEI Consultants, Inc., P.C. **Contract:** GEIC06

Lab code: CHEM **Case no.:** O2521 **Sas no.:** O2521 **Sdg no.:** O2521

Instrument id number: **Method:** **Run number:** LB125269

Start date: 05/03/2023 **End date:** 05/03/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1240	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1244	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1248	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1252	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1255	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1259	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1404	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1411	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1415	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1419	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1423	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1431	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV01	LLCCV01	1	1435	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1439	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1521	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1530	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1639	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1643	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1730	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1734	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1816	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1820	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB152450BL	PB152450BL	1	1839	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB152450BS	PB152450BS	1	1843	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-01	GMW-1	1	1847	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-02	GMW-1	1	1851	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-03	PZ-15	1	1855	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-04	PZ-15	1	1859	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1903	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1907	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: GEI Consultants, Inc., P.C. **Contract:** GEIC06

Lab code: CHEM **Case no.:** O2521 **Sas no.:** O2521 **Sdg no.:** O2521

Instrument id number: **Method:** **Run number:** LB125287

Start date: 05/04/2023 **End date:** 05/04/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1318	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1322	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1326	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1330	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1333	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1337	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1341	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1347	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1351	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1355	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1358	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1410	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV01	LLCCV01	1	1414	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1418	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1505	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1509	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1553	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1557	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-05	GMW-10	1	1601	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-06	GMW-10	1	1605	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-07	GMW-7	1	1609	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-07DUP	GMW-7DUP	1	1613	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-07L	GMW-7L	5	1617	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-09	GMW-7MS	1	1621	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-10	GMW-7MSD	1	1625	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-07A	GMW-7A	1	1628	Al,Ba,Fe,Mn,Zn
O2521-14	FB	1	1632	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1652	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1655	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1743	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1747	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-08	GMW-7	1	1751	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-11	GMW-7MS	1	1802	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-12	GMW-7MSD	1	1806	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-08A	GMW-7A	1	1809	Ba,Mn,Zn
CCV06	CCV06	1	1813	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1817	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
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ANALYSIS RUN LOG

Client: GEI Consultants, Inc., P.C. **Contract:** GEIC06

Lab code: CHEM **Case no.:** O2521 **Sas no.:** O2521 **Sdg no.:** O2521

Instrument id number: **Method:** **Run number:** LB125428

Start date: 05/11/2023 **End date:** 05/11/2023

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1524	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1528	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1532	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1535	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1539	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1543	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1547	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1551	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1555	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1559	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1603	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1619	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLCCV01	LLCCV01	1	1623	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1627	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1716	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1720	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1818	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1821	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
O2521-15	FB	1	1843	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1901	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1905	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1949	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1953	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	2037	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	2041	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	2104	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	2108	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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LAB CHRONICLE

OrderID:	O2521	**OrderDate:**	4/27/2023 8:52:00 AM
Client:	GEI Consultants, Inc., P.C.	**Project:**	Ferry Point
Contact:	Stacey Ng	**Location:**	M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O2521-01	**GMW-1**	**WATER**			**04/26/23 08:36**			**04/26/23**
			Alkalinity	SM2320 B			05/04/23 14:59	
			Ammonia	SM4500-NH3		05/01/23	05/02/23 13:04	
			Anions Group1	300.0			04/27/23 16:09	
			BOD5	SM5210 B			04/27/23 15:00	
			COD	SM5220 D			05/03/23 14:05	
			Cyanide	9012B		04/28/23	04/28/23 14:00	
			pH	9040C			04/27/23 14:45	
			Phenolics	420.1		04/27/23	04/27/23 11:46	
			TDS	SM2540 C			04/27/23 10:30	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		05/03/23	05/04/23 11:21	
			TOC	9060A			05/01/23 13:13	
O2521-01DL	**GMW-1DL**	**WATER**			**04/26/23 08:36**			**04/26/23**
			Ammonia	SM4500-NH3		05/01/23	05/02/23 14:36	
			Anions Group1	300.0			04/28/23 09:04	

LAB CHRONICLE

			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		05/03/23	05/04/23 12:20
			TOC	9060A			05/01/23 19:06
O2521-03	**PZ-15**	**WATER**			**04/26/23 09:54**		**04/26/23**
			Alkalinity	SM2320 B			05/04/23 15:07
			Ammonia	SM4500-NH3		05/01/23	05/02/23 13:04
			Anions Group1	300.0			04/27/23 16:42
			BOD5	SM5210 B			04/27/23 15:00
			COD	SM5220 D			05/03/23 14:07
			Cyanide	9012B		04/28/23	04/28/23 14:00
			pH	9040C			04/27/23 14:49
			Phenolics	420.1		04/27/23	04/27/23 11:46
			TDS	SM2540 C			04/27/23 10:30
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		05/03/23	05/04/23 11:21
			TOC	9060A			05/01/23 13:44
O2521-03DL	**PZ-15DL**	**WATER**			**04/26/23 09:54**		**04/26/23**
			Ammonia	SM4500-NH3		05/01/23	05/02/23 14:02
			Anions Group1	300.0			04/28/23 09:36

LAB CHRONICLE

			TKN	SM4500-N Org C-11 plus NH3 B plus G-11	05/03/23	05/04/23 12:20	
			TOC	9060A		05/01/23 19:35	
O2521-05	**GMW-10**	**WATER**			**04/26/23 11:16**		**04/26/23**
			Alkalinity	SM2320 B		05/04/23 15:12	
			Ammonia	SM4500-NH3	05/01/23	05/02/23 13:04	
			Anions Group1	300.0		04/27/23 17:15	
			BOD5	SM5210 B		04/27/23 15:00	
			COD	SM5220 D		05/03/23 14:07	
			Cyanide	9012B	04/28/23	04/28/23 14:00	
			pH	9040C		04/27/23 15:00	
			Phenolics	420.1	04/27/23	04/27/23 11:46	
			TDS	SM2540 C		04/27/23 10:30	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11	05/03/23	05/04/23 11:21	
			TOC	9060A		05/01/23 14:17	
O2521-05DL	**GMW-10DL**	**WATER**			**04/26/23 11:16**		**04/26/23**
			Anions Group1	300.0		04/28/23 10:09	
			TOC	9060A		05/02/23 12:34	

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LAB CHRONICLE

O2521-07	**GMW-7**	**WATER**			**04/26/23 13:21**		**04/26/23**
			Alkalinity	SM2320 B		05/04/23 15:18	
			Ammonia	SM4500-NH3	05/01/23	05/02/23 13:04	
			Anions Group1	300.0		04/27/23 17:47	
			BOD5	SM5210 B		04/27/23 15:00	
			COD	SM5220 D		05/03/23 14:08	
			Cyanide	9012B	04/28/23	04/28/23 14:00	
			pH	9040C		04/27/23 15:05	
			Phenolics	420.1	04/27/23	04/27/23 12:24	
			TDS	SM2540 C		04/27/23 10:30	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11	05/03/23	05/04/23 11:21	
			TOC	9060A		05/01/23 14:45	
O2521-07DL	**GMW-7DL**	**WATER**			**04/26/23 13:21**		**04/26/23**
			Anions Group1	300.0		04/28/23 10:42	
O2521-14	**FB**	**Water**			**04/26/23 12:00**		**04/26/23**
			Alkalinity	SM2320 B		05/05/23 10:48	
			BOD5	SM5210 B		04/27/23 15:00	
			COD	SM5220 D		05/03/23 14:10	
			pH	9040C		04/27/23 15:10	

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LAB CHRONICLE

TDS	SM2540 C		04/27/23 10:30
Ammonia	SM4500-NH3	05/01/23	05/02/23 13:54
Anions Group1	300.0		04/27/23 19:25
Cyanide	9012B	04/28/23	04/28/23 14:04
Phenolics	420.1	04/27/23	04/27/23 12:24
TKN	SM4500-N Org C-11 plus NH3 B plus G-11	05/03/23	05/04/23 11:22
TOC	9060A		05/01/23 18:13

SAMPLE DATA

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23 08:36
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1	SDG No.:	O2521
Lab Sample ID:	O2521-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	614		1	1.00	2.00	mg/L		05/04/23 14:59	SM 2320 B-11
Ammonia as N	11.9	OR	1	0.045	0.10	mg/L	05/01/23 13:30	05/02/23 13:04	SM 4500-NH3 B plus G-11
Bromide	0.90	J	1	0.27	2.00	mg/L		04/27/23 16:09	300.0
Chloride	53.0	OR	1	0.11	0.60	mg/L		04/27/23 16:09	300.0
Nitrite	0.60	U	1	0.089	0.60	mg/L		04/27/23 16:09	300.0
Nitrate	0.50	U	1	0.084	0.50	mg/L		04/27/23 16:09	300.0
Sulfate	1.50	J	1	0.55	3.00	mg/L		04/27/23 16:09	300.0
Nitrate+Nitrite	1.10	U	1	0.17	1.10	mg/L		04/27/23 16:09	300.0
BOD5	95.4		1	0.17	2.00	mg/L		04/27/23 15:00	SM 5210 B-16
COD	160	D	10	25.2	100	mg/L		05/03/23 14:05	SM 5220 D-11
Cyanide	0.035		1	0.0010	0.0050	mg/L	04/28/23 10:45	04/28/23 14:00	9012B
pH	6.85	H	1	0	0	pH		04/27/23 14:45	9040C
Phenolics	0.050	U	1	0.012	0.050	mg/L	04/27/23 09:45	04/27/23 11:46	420.1
TDS	666		1	1.00	10.0	mg/L		04/27/23 10:30	SM 2540 C-15
TKN	12.4	OR	1	0.13	0.50	mg/L	05/03/23 10:30	05/04/23 11:21	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	28.2	OR	1	0.37	1.00	mg/L		05/01/23 13:13	9060A

Comments: pH result reported at temperature 20.8 °C

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H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23 08:36
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-1DL	SDG No.:	O2521
Lab Sample ID:	O2521-01DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	13.3	D	10	0.45	1.00	mg/L	05/01/23 13:30	05/02/23 14:36	SM 4500-NH3 B plus G-11
Chloride	44.4	D	10	1.10	6.00	mg/L		04/28/23 09:04	300.0
TKN	13.0	D	2	0.26	1.00	mg/L	05/03/23 10:30	05/04/23 12:20	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	28.1	D	4	1.50	4.00	mg/L		05/01/23 19:06	9060A

Comments:

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23 09:54
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15	SDG No.:	O2521
Lab Sample ID:	O2521-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	812		1	1.00	2.00	mg/L		05/04/23 15:07	SM 2320 B-11
Ammonia as N	32.6	OR	1	0.045	0.10	mg/L	05/01/23 13:30	05/02/23 13:04	SM 4500-NH3 B plus G-11
Bromide	0.97	J	1	0.27	2.00	mg/L		04/27/23 16:42	300.0
Chloride	44.7	OR	1	0.11	0.60	mg/L		04/27/23 16:42	300.0
Nitrite	0.60	U	1	0.089	0.60	mg/L		04/27/23 16:42	300.0
Nitrate	0.19	J	1	0.084	0.50	mg/L		04/27/23 16:42	300.0
Sulfate	3.00		1	0.55	3.00	mg/L		04/27/23 16:42	300.0
Nitrate+Nitrite	0.19	J	1	0.17	1.10	mg/L		04/27/23 16:42	300.0
BOD5	39.2		1	0.17	2.00	mg/L		04/27/23 15:00	SM 5210 B-16
COD	190	D	10	25.2	100	mg/L		05/03/23 14:07	SM 5220 D-11
Cyanide	0.34		1	0.0010	0.0050	mg/L	04/28/23 10:45	04/28/23 14:00	9012B
pH	6.71	H	1	0	0	pH		04/27/23 14:49	9040C
Phenolics	0.050	U	1	0.012	0.050	mg/L	04/27/23 09:45	04/27/23 11:46	420.1
TDS	773		1	1.00	10.0	mg/L		04/27/23 10:30	SM 2540 C-15
TKN	31.0	OR	1	0.13	0.50	mg/L	05/03/23 10:30	05/04/23 11:21	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	29.0	OR	1	0.37	1.00	mg/L		05/01/23 13:44	9060A

Comments: pH result reported at temperature 20.1 °C

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23 09:54
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	PZ-15DL	SDG No.:	O2521
Lab Sample ID:	O2521-03DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	56.8	D	50	2.30	5.00	mg/L	05/01/23 13:30	05/02/23 14:02	SM 4500-NH3 B plus G-11
Chloride	38.2	D	10	1.10	6.00	mg/L		04/28/23 09:36	300.0
TKN	49.6	D	10	1.30	5.00	mg/L	05/03/23 10:30	05/04/23 12:20	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	30.4	D	4	1.50	4.00	mg/L		05/01/23 19:35	9060A

Comments:

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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23 11:16
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10	SDG No.:	O2521
Lab Sample ID:	O2521-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	494		1	1.00	2.00	mg/L		05/04/23 15:12	SM 2320 B-11
Ammonia as N	1.60		1	0.045	0.10	mg/L	05/01/23 13:30	05/02/23 13:04	SM 4500-NH3 B plus G-11
Bromide	2.00	U	1	0.27	2.00	mg/L		04/27/23 17:15	300.0
Chloride	21.8	OR	1	0.11	0.60	mg/L		04/27/23 17:15	300.0
Nitrite	0.60	U	1	0.089	0.60	mg/L		04/27/23 17:15	300.0
Nitrate	0.50	U	1	0.084	0.50	mg/L		04/27/23 17:15	300.0
Sulfate	58.4	OR	1	0.55	3.00	mg/L		04/27/23 17:15	300.0
Nitrate+Nitrite	1.10	U	1	0.17	1.10	mg/L		04/27/23 17:15	300.0
BOD5	8.50		1	0.17	2.00	mg/L		04/27/23 15:00	SM 5210 B-16
COD	114		1	2.52	10.0	mg/L		05/03/23 14:07	SM 5220 D-11
Cyanide	0.22		1	0.0010	0.0050	mg/L	04/28/23 10:45	04/28/23 14:00	9012B
pH	6.72	H	1	0	0	pH		04/27/23 15:00	9040C
Phenolics	0.050	U	1	0.012	0.050	mg/L	04/27/23 09:45	04/27/23 11:46	420.1
TDS	729		1	1.00	10.0	mg/L		04/27/23 10:30	SM 2540 C-15
TKN	0.52		1	0.13	0.50	mg/L	05/03/23 10:30	05/04/23 11:21	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	28.7	OR	1	0.37	1.00	mg/L		05/01/23 14:17	9060A

Comments: pH result reported at temperature 20.9 °C

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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23 11:16
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-10DL	SDG No.:	O2521
Lab Sample ID:	O2521-05DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	19.4	D	5	0.55	3.00	mg/L		04/28/23 10:09	300.0
Sulfate	53.0	D	5	2.80	15.0	mg/L		04/28/23 10:09	300.0
TOC	26.4	D	4	1.50	4.00	mg/L		05/02/23 12:34	9060A

Comments:

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23 13:21
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7	SDG No.:	O2521
Lab Sample ID:	O2521-07	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	404		1	1.00	2.00	mg/L		05/04/23 15:18	SM 2320 B-11
Ammonia as N	1.50		1	0.045	0.10	mg/L	05/01/23 13:30	05/02/23 13:04	SM 4500-NH3 B plus G-11
Bromide	2.00	U	1	0.27	2.00	mg/L		04/27/23 17:47	300.0
Chloride	24.1	OR	1	0.11	0.60	mg/L		04/27/23 17:47	300.0
Nitrite	0.60	U	1	0.089	0.60	mg/L		04/27/23 17:47	300.0
Nitrate	1.70		1	0.084	0.50	mg/L		04/27/23 17:47	300.0
Sulfate	75.7	OR	1	0.55	3.00	mg/L		04/27/23 17:47	300.0
Nitrate+Nitrite	1.70		1	0.17	1.10	mg/L		04/27/23 17:47	300.0
BOD5	10.2		1	0.17	2.00	mg/L		04/27/23 15:00	SM 5210 B-16
COD	15.0		1	2.52	10.0	mg/L		05/03/23 14:08	SM 5220 D-11
Cyanide	0.010		1	0.0010	0.0050	mg/L	04/28/23 10:45	04/28/23 14:00	9012B
pH	7.02	H	1	0	0	pH		04/27/23 15:05	9040C
Phenolics	0.050	U	1	0.012	0.050	mg/L	04/27/23 09:45	04/27/23 12:24	420.1
TDS	658		1	1.00	10.0	mg/L		04/27/23 10:30	SM 2540 C-15
TKN	4.70		1	0.13	0.50	mg/L	05/03/23 10:30	05/04/23 11:21	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	7.90		1	0.37	1.00	mg/L		05/01/23 14:45	9060A

Comments: pH result reported at temperature 20.9 °C

U = Not Detected
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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23 13:21
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	GMW-7DL	SDG No.:	O2521
Lab Sample ID:	O2521-07DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	21.7	D	5	0.55	3.00	mg/L		04/28/23 10:42	300.0
Sulfate	68.0	D	5	2.80	15.0	mg/L		04/28/23 10:42	300.0

Comments:

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Report of Analysis

Client:	GEI Consultants, Inc., P.C.	Date Collected:	04/26/23 12:00
Project:	Ferry Point	Date Received:	04/26/23
Client Sample ID:	FB	SDG No.:	O2521
Lab Sample ID:	O2521-14	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	1.20	J	1	1.00	2.00	mg/L		05/05/23 10:48	SM 2320 B-11
Ammonia as N	0.10	U	1	0.045	0.10	mg/L	05/01/23 13:30	05/02/23 13:54	SM 4500-NH3 B plus G-11
Bromide	2.00	U	1	0.27	2.00	mg/L		04/27/23 19:25	300.0
Chloride	0.60	U	1	0.11	0.60	mg/L		04/27/23 19:25	300.0
Nitrite	0.60	U	1	0.089	0.60	mg/L		04/27/23 19:25	300.0
Nitrate	0.50	U	1	0.084	0.50	mg/L		04/27/23 19:25	300.0
Sulfate	3.00	U	1	0.55	3.00	mg/L		04/27/23 19:25	300.0
Nitrate+Nitrite	1.10	U	1	0.17	1.10	mg/L		04/27/23 19:25	300.0
BOD5	2.00	U	1	0.17	2.00	mg/L		04/27/23 15:00	SM 5210 B-16
COD	10.0	U	1	2.52	10.0	mg/L		05/03/23 14:10	SM 5220 D-11
Cyanide	0.0014	J	1	0.0010	0.0050	mg/L	04/28/23 10:45	04/28/23 14:04	9012B
pH	5.48	H	1	0	0	pH		04/27/23 15:10	9040C
Phenolics	0.050	U	1	0.012	0.050	mg/L	04/27/23 09:45	04/27/23 12:24	420.1
TDS	10.0	U	1	1.00	10.0	mg/L		04/27/23 10:30	SM 2540 C-15
TKN	0.50	U	1	0.13	0.50	mg/L	05/03/23 10:30	05/04/23 11:22	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	0.76	J	1	0.37	1.00	mg/L		05/01/23 18:13	9060A

Comments: pH result reported at temperature 20.6 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125184

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
Phenolics		mg/L	0.98	1	98	90-110	04/27/2023
Sample ID:	CCV1						
Phenolics		mg/L	0.94	1	94	90-110	04/27/2023
Sample ID:	CCV2						
Phenolics		mg/L	0.93	1	93	90-110	04/27/2023
Sample ID:	CCV3						
Phenolics		mg/L	0.94	1	94	90-110	04/27/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125187

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	10.3	10	103	90-110	04/24/2023
Chloride	mg/L	3.1	3	103	90-110	04/24/2023
Fluoride	mg/L	1.9	2	95	90-110	04/24/2023
Nitrite	mg/L	3.1	3	103	90-110	04/24/2023
Nitrate	mg/L	2.6	2.5	104	90-110	04/24/2023
Sulfate	mg/L	15.4	15	103	90-110	04/24/2023
Orthophosphate as P	mg/L	4.7	5	94	90-110	04/24/2023
Sample ID: CCV1						
Bromide	mg/L	9.8	10	98	90-110	04/27/2023
Chloride	mg/L	2.9	3	97	90-110	04/27/2023
Fluoride	mg/L	1.9	2	95	90-110	04/27/2023
Nitrite	mg/L	2.9	3	97	90-110	04/27/2023
Nitrate	mg/L	2.4	2.5	96	90-110	04/27/2023
Sulfate	mg/L	14.6	15	97	90-110	04/27/2023
Orthophosphate as P	mg/L	5.7	5	114	90-110	04/27/2023
Sample ID: CCV2						
Bromide	mg/L	9.9	10	99	90-110	04/27/2023
Chloride	mg/L	3	3	100	90-110	04/27/2023
Fluoride	mg/L	2	2	100	90-110	04/27/2023
Nitrite	mg/L	3.1	3	103	90-110	04/27/2023
Nitrate	mg/L	2.5	2.5	100	90-110	04/27/2023
Sulfate	mg/L	14.9	15	99	90-110	04/27/2023
Orthophosphate as P	mg/L	6.8	5	136	90-110	04/27/2023
Sample ID: CCV3						
Bromide	mg/L	9.9	10	99	90-110	04/28/2023
Chloride	mg/L	3	3	100	90-110	04/28/2023
Fluoride	mg/L	2	2	100	90-110	04/28/2023
Nitrite	mg/L	3.1	3	103	90-110	04/28/2023
Nitrate	mg/L	2.5	2.5	100	90-110	04/28/2023
Sulfate	mg/L	14.9	15	99	90-110	04/28/2023
Orthophosphate as P	mg/L	7.2	5	144	90-110	04/28/2023
Sample ID: CCV4						
Bromide	mg/L	10	10	100	90-110	04/28/2023
Chloride	mg/L	3.2	3	107	90-110	04/28/2023
Fluoride	mg/L	2	2	100	90-110	04/28/2023
Nitrite	mg/L	3.1	3	103	90-110	04/28/2023
Nitrate	mg/L	2.5	2.5	100	90-110	04/28/2023
Sulfate	mg/L	15	15	100	90-110	04/28/2023
Orthophosphate as P	mg/L	6.6	5	132	90-110	04/28/2023
Sample ID: CCV5						
Bromide	mg/L	10	10	100	90-110	04/28/2023
Chloride	mg/L	3	3	100	90-110	04/28/2023
Fluoride	mg/L	2	2	100	90-110	04/28/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125187

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Nitrite	mg/L	3.1	3	103	90-110	04/28/2023
Nitrate	mg/L	2.5	2.5	100	90-110	04/28/2023
Sulfate	mg/L	15	15	100	90-110	04/28/2023
Orthophosphate as P	mg/L	6.1	5	122	90-110	04/28/2023

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Initial and Continuing Calibration Verification

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**RunNo.:**	LB125189

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV**						
pH		pH	6.99	7	100	90-110	04/27/2023
Sample ID:	**CCV1**						
pH		pH	2.01	2.00	101	90-110	04/27/2023
Sample ID:	**CCV2**						
pH		pH	12.02	12.00	100	90-110	04/27/2023

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Initial and Continuing Calibration Verification

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**RunNo.:**	LB125211

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
Cyanide		mg/L	0.096	0.099	97	90-110	04/28/2023
Sample ID:	**CCV1**						
Cyanide		mg/L	0.25	0.25	100	90-110	04/28/2023
Sample ID:	**CCV2**						
Cyanide		mg/L	0.24	0.25	96	90-110	04/28/2023
Sample ID:	**CCV3**						
Cyanide		mg/L	0.25	0.25	100	90-110	04/28/2023
Sample ID:	**CCV4**						
Cyanide		mg/L	0.24	0.25	96	90-110	04/28/2023
Sample ID:	**CCV5**						
Cyanide		mg/L	0.26	0.25	104	90-110	04/28/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125221

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
TOC		mg/L	10.3	10	103	90-110	04/04/2023
Sample ID:	CCV1						
TOC		mg/L	10.9	10	109	90-110	05/01/2023
Sample ID:	CCV2						
TOC		mg/L	10.7	10	107	90-110	05/01/2023
Sample ID:	CCV3						
TOC		mg/L	10.7	10	107	90-110	05/01/2023
Sample ID:	CCV4						
TOC		mg/L	10.2	10	102	90-110	05/02/2023
Sample ID:	CCV5						
TOC		mg/L	10.8	10	108	90-110	05/02/2023
Sample ID:	CCV6						
TOC		mg/L	10.6	10	106	90-110	05/02/2023
Sample ID:	CCV7						
TOC		mg/L	10.4	10	104	90-110	05/03/2023
Sample ID:	CCV8						
TOC		mg/L	10.5	10	105	90-110	05/03/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125248

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
Ammonia as N		mg/L	0.91	1	91	90-110	05/02/2023
Sample ID:	CCV1						
Ammonia as N		mg/L	0.95	1	95	90-110	05/02/2023
Sample ID:	CCV2						
Ammonia as N		mg/L	0.94	1	94	90-110	05/02/2023
Sample ID:	CCV3						
Ammonia as N		mg/L	0.93	1	93	90-110	05/02/2023
Sample ID:	CCV4						
Ammonia as N		mg/L	0.97	1	97	90-110	05/02/2023
Sample ID:	CCV5						
Ammonia as N		mg/L	1	1	100	90-110	05/02/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125267

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
COD		mg/L	49.991	50	100	95-105	03/10/2023
Sample ID:	CCV1						
COD		mg/L	48.990	50	98	95-105	05/03/2023
Sample ID:	CCV2						
COD		mg/L	48.990	50	98	95-105	05/03/2023
Sample ID:	CCV3						
COD		mg/L	50.992	50	102	95-105	05/03/2023

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Initial and Continuing Calibration Verification

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125282

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
TKN		mg/L	4.9	5	98	90-110	05/04/2023
Sample ID:	CCV1						
TKN		mg/L	4.9	5	98	90-110	05/04/2023
Sample ID:	CCV2						
TKN		mg/L	4.8	5	96	90-110	05/04/2023
Sample ID:	CCV3						
TKN		mg/L	5.1	5	102	90-110	05/04/2023
Sample ID:	CCV4						
TKN		mg/L	5.1	5	102	90-110	05/04/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125184

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Phenolics		mg/L	< 0.0250	0.0250	U	0.012	0.05	04/27/2023
Sample ID:	CCB1							
Phenolics		mg/L	< 0.0250	0.0250	U	0.012	0.05	04/27/2023
Sample ID:	CCB2							
Phenolics		mg/L	< 0.0250	0.0250	U	0.012	0.05	04/27/2023
Sample ID:	CCB3							
Phenolics		mg/L	< 0.0250	0.0250	U	0.012	0.05	04/27/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125187

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/24/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/24/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/24/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/24/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/24/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/24/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/24/2023
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/27/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/27/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/27/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/27/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/27/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/27/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/27/2023
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/27/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/27/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/27/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/27/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/27/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/27/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/27/2023
Sample ID: CCB3							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/28/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/28/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/28/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/28/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/28/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/28/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/28/2023
Sample ID: CCB4							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/28/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/28/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/28/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/28/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/28/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/28/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/28/2023
Sample ID: CCB5							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/28/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/28/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/28/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/28/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/28/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/28/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.30	1	04/28/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125211

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	04/28/2023
Sample ID:	CCB1							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	04/28/2023
Sample ID:	CCB2							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	04/28/2023
Sample ID:	CCB3							
Cyanide		mg/L	0.0011	0.0025	J	0.0010	0.005	04/28/2023
Sample ID:	CCB4							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	04/28/2023
Sample ID:	CCB5							
Cyanide		mg/L	< 0.0025	0.0025	U	0.0010	0.005	04/28/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125221

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
TOC		mg/L	0.47	0.5000	J	0.37	1	04/04/2023
Sample ID:	CCB1							
TOC		mg/L	< 0.5000	0.5000	U	0.37	1	05/01/2023
Sample ID:	CCB2							
TOC		mg/L	< 0.5000	0.5000	U	0.37	1	05/01/2023
Sample ID:	CCB3							
TOC		mg/L	< 0.5000	0.5000	U	0.37	1	05/01/2023
Sample ID:	CCB4							
TOC		mg/L	< 0.5000	0.5000	U	0.37	1	05/02/2023
Sample ID:	CCB5							
TOC		mg/L	< 0.5000	0.5000	U	0.37	1	05/02/2023
Sample ID:	CCB6							
TOC		mg/L	< 0.5000	0.5000	U	0.37	1	05/02/2023
Sample ID:	CCB7							
TOC		mg/L	< 0.5000	0.5000	U	0.37	1	05/03/2023
Sample ID:	CCB8							
TOC		mg/L	0.4	0.5000	J	0.37	1	05/03/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125248

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023
Sample ID: CCB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023
Sample ID: CCB2							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023
Sample ID: CCB3							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023
Sample ID: CCB4							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023
Sample ID: CCB5							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125267

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
COD	mg/L	< 5.0000	5.0000	U	2.52	10	03/10/2023
Sample ID: CCB1							
COD	mg/L	< 5.0000	5.0000	U	2.52	10	05/03/2023
Sample ID: CCB2							
COD	mg/L	< 5.0000	5.0000	U	2.52	10	05/03/2023
Sample ID: CCB3							
COD	mg/L	< 5.0000	5.0000	U	2.52	10	05/03/2023

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Initial and Continuing Calibration Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **RunNo.:** LB125282

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
TKN		mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023
Sample ID:	CCB1							
TKN		mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023
Sample ID:	CCB2							
TKN		mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023
Sample ID:	CCB3							
TKN		mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023
Sample ID:	CCB4							
TKN		mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023

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Preparation Blank Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB125179BL							
TDS	mg/L	< 5.0000	5.0000	U	1.0	10	04/27/2023
Sample ID: LB125186BL							
BOD5	mg/L	< 0.2000	0.2000	U	0.17	2.0	04/27/2023
Sample ID: LB125187BLW							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/27/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/27/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/27/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/27/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/27/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/27/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.3	1	04/27/2023
Sample ID: LB125187BLW2							
Bromide	mg/L	< 1.0000	1.0000	U	0.27	2	04/28/2023
Chloride	mg/L	< 0.3000	0.3000	U	0.11	0.6	04/28/2023
Fluoride	mg/L	< 0.2000	0.2000	U	0.085	0.4	04/28/2023
Nitrite	mg/L	< 0.3000	0.3000	U	0.089	0.6	04/28/2023
Nitrate	mg/L	< 0.2500	0.2500	U	0.084	0.5	04/28/2023
Sulfate	mg/L	< 1.5000	1.5000	U	0.55	3	04/28/2023
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.3	1	04/28/2023
Sample ID: LB125221BLW							
TOC	mg/L	< 0.5000	0.5000	U	0.37	1	05/01/2023
Sample ID: LB125221BLW2							
TOC	mg/L	< 0.5000	0.5000	U	0.37	1	05/02/2023
Sample ID: LB125221BLW3							
TOC	mg/L	< 0.5000	0.5000	U	0.37	1	05/03/2023
Sample ID: LB125267BL							
COD	mg/L	< 5.0000	5.0000	U	2.52	10.0	05/03/2023
Sample ID: LB125291BLW							
Alkalinity	mg/L	< 1.0000	1.0000	U	1	2	05/04/2023
Sample ID: LB125301BL							
Alkalinity	mg/L	< 1.0000	1.0000	U	1	2	05/05/2023
Sample ID: PB152437BL							
TKN	mg/L	< 0.2500	0.2500	U	0.13	0.5	05/04/2023
Sample ID: PB152445BL							
Phenolics	mg/L	< 0.0250	0.0250	U	0.012	0.05	04/27/2023
Sample ID: PB152488BL							
Cyanide	mg/L	< 0.0025	0.0025	U	0.001	0.005	04/28/2023
Sample ID: PB152517BL							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	05/02/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	11.1		0.27	U	10	1	111		04/27/2023
Ammonia as N	mg/L	75-125	2.20	OR	1.50		1	1	70	*	05/02/2023
TOC	mg/L	75-125	17.5		7.90		10	1	96		05/01/2023
COD	mg/L	75-125	61.0		15.0		50.0	1	92		05/03/2023
Chloride	mg/L	80-120	26.9	OR	24.1	OR	3	1	93		04/27/2023
Fluoride	mg/L	80-120	3.60		0.085	U	2	1	180	*	04/27/2023
Nitrite	mg/L	80-120	1.70		0.089	U	3	1	57	*	04/27/2023
Nitrate	mg/L	80-120	4.30		1.70		2.5	1	104		04/27/2023
Sulfate	mg/L	80-120	92.0	OR	75.7	OR	15	1	109		04/27/2023
Orthophosphate as P	mg/L	80-120	8.10		0.30	U	5	1	162	*	04/27/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/L	75-125	0.057		0.010		0.04	1	117		04/28/2023
TKN	mg/L	75-125	9.50		4.70		5	1	96		05/04/2023
Phenolics	mg/L	75-125	0.44		0.012	U	1	1	44	*	04/27/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.6		0.27	U	10	1	106		04/27/2023
Ammonia as N	mg/L	75-125	2.20	OR	1.50		1	1	70	*	05/02/2023
TOC	mg/L	75-125	17.3		7.90		10	1	94		05/01/2023
COD	mg/L	75-125	62.0		15.0		50.0	1	94		05/03/2023
Chloride	mg/L	80-120	26.9	OR	24.1	OR	3	1	93		04/27/2023
Fluoride	mg/L	80-120	3.40		0.085	U	2	1	170	*	04/27/2023
Nitrite	mg/L	80-120	1.60		0.089	U	3	1	53	*	04/27/2023
Nitrate	mg/L	80-120	4.20		1.70		2.5	1	100		04/27/2023
Sulfate	mg/L	80-120	91.3	OR	75.7	OR	15	1	104		04/27/2023
Orthophosphate as P	mg/L	80-120	8.40		0.30	U	5	1	168	*	04/27/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/L	75-125	0.057		0.010		0.04	1	117		04/28/2023
TKN	mg/L	75-125	9.00		4.70		5	1	86		05/04/2023
Phenolics	mg/L	75-125	0.41		0.012	U	1	1	41	*	04/27/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2522-11
Client ID: MW-4MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	12.0		1.70	J	10	1	103		04/28/2023
Chloride	mg/L	80-120	779	OR	808	OR	3	1	-967	*	04/28/2023
Fluoride	mg/L	80-120	3.00		0.085	U	2	1	150	*	04/28/2023
Nitrite	mg/L	80-120	2.40		0.089	U	3	1	80		04/28/2023
Nitrate	mg/L	80-120	15.4	OR	12.7	OR	2.5	1	108		04/28/2023
Sulfate	mg/L	80-120	123	OR	109	OR	15	1	93		04/28/2023
Orthophosphate as P	mg/L	80-120	8.90		0.30	U	5	1	178	*	04/28/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2522-11
Client ID: MW-4MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	12.2		1.70	J	10	1	105		04/28/2023
Chloride	mg/L	80-120	779	OR	808	OR	3	1	-967	*	04/28/2023
Fluoride	mg/L	80-120	3.00		0.085	U	2	1	150	*	04/28/2023
Nitrite	mg/L	80-120	2.40		0.089	U	3	1	80		04/28/2023
Nitrate	mg/L	80-120	15.4	OR	12.7	OR	2.5	1	108		04/28/2023
Sulfate	mg/L	80-120	123	OR	109	OR	15	1	93		04/28/2023
Orthophosphate as P	mg/L	80-120	9.60		0.30	U	5	1	192	*	04/28/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2533-03
Client ID: 22-MW-3IMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/L	75-125	10.5		1.80		10	1	87		05/02/2023

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Matrix Spike Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2533-03
Client ID: 22-MW-3IMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/L	75-125	10.7		1.80		10	1	89		05/02/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2495-09
Client ID: GMW-5DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TDS	mg/L	+/-5	332		333		1	0.3		04/27/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2515-11
Client ID: LEA-12SDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Alkalinity	mg/L	+/-20	1.40	J	1.20	J	1	15.38		05/05/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2521-01
Client ID: GMW-1DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
pH	pH	+/-20	6.85		6.86		1	0.15		04/27/2023
Alkalinity	mg/L	+/-20	614		613		1	0		05/04/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Phenolics	mg/L	+/-20	0.012	U	0.012	U	1	0		04/27/2023
BOD5	mg/L	+/-20	10.2		10.2		1	0.39		04/27/2023
Cyanide	mg/L	+/-20	0.010		0.0097		1	3		04/28/2023
Ammonia as N	mg/L	+/-20	1.50		1.50		1	0		05/02/2023
COD	mg/L	+/-20	15.0		14.0		1	6.9		05/03/2023
TKN	mg/L	+/-20	4.70		4.90		1	4		05/04/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Chloride	mg/L	+/-20	26.9	OR	26.9	OR	1	0		04/27/2023
Sulfate	mg/L	+/-20	92.0	OR	91.3	OR	1	1		04/27/2023
Nitrate	mg/L	+/-20	4.30		4.20		1	2		04/27/2023
Orthophosphate as P	mg/L	+/-20	8.10		8.40		1	4		04/27/2023
Bromide	mg/L	+/-20	11.1		10.6		1	5		04/27/2023
Fluoride	mg/L	+/-20	3.60		3.40		1	6		04/27/2023
Nitrite	mg/L	+/-20	1.70		1.60		1	6		04/27/2023
TOC	mg/L	+/-20	17.5		17.3		1	1		05/01/2023
Ammonia as N	mg/L	+/-20	2.20	OR	2.20	OR	1	0		05/02/2023
COD	mg/L	+/-20	61.0		62.0		1	1.63		05/03/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2521-07
Client ID: GMW-7MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Phenolics	mg/L	+/-20	0.44		0.41		1	7		04/27/2023
Cyanide	mg/L	+/-20	0.057		0.057		1	0		04/28/2023
TKN	mg/L	+/-20	9.50		9.00		1	5		05/04/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2522-11
Client ID: MW-4MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Fluoride	mg/L	+/-20	3.00		3.00		1	0		04/28/2023
Nitrite	mg/L	+/-20	2.40		2.40		1	0		04/28/2023
Chloride	mg/L	+/-20	779	OR	779	OR	1	0		04/28/2023
Nitrate	mg/L	+/-20	15.4	OR	15.4	OR	1	0		04/28/2023
Sulfate	mg/L	+/-20	123	OR	123	OR	1	0		04/28/2023
Bromide	mg/L	+/-20	12.0		12.2		1	2		04/28/2023
Orthophosphate as P	mg/L	+/-20	8.90		9.60		1	8		04/28/2023

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Duplicate Sample Summary

Client: GEI Consultants, Inc., P.C.
SDG No.: O2521
Project: Ferry Point
Sample ID: O2533-03
Client ID: 22-MW-3IMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TOC	mg/L	+/-20	10.5		10.7		1	2		05/02/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125179

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125179BS								
TDS	mg/L	100	94.0		94	1	90-110	04/27/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125186

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125186BS								
BOD5	mg/L	198	170		86	1	84.6-115.4	04/27/2023

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Laboratory Control Sample Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **Run No.:** LB125187

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125187BSW								
Bromide	mg/L	10	9.70		97	1	90-110	04/27/2023
Chloride	mg/L	3	2.90		97	1	90-110	04/27/2023
Fluoride	mg/L	2	1.90		95	1	90-110	04/27/2023
Nitrite	mg/L	3	2.90		97	1	90-110	04/27/2023
Nitrate	mg/L	2.5	2.40		96	1	90-110	04/27/2023
Sulfate	mg/L	15	14.5		97	1	90-110	04/27/2023
Orthophosphate as P	mg/L	5	5.10		102	1	90-110	04/27/2023

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Laboratory Control Sample Summary

Client: GEI Consultants, Inc., P.C. **SDG No.:** O2521

Project: Ferry Point **Run No.:** LB125187

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125187BSW2								
Bromide	mg/L	10	9.90		99	1	90-110	04/28/2023
Chloride	mg/L	3	3.00		100	1	90-110	04/28/2023
Fluoride	mg/L	2	2.00		100	1	90-110	04/28/2023
Nitrite	mg/L	3	3.10		103	1	90-110	04/28/2023
Nitrate	mg/L	2.5	2.50		100	1	90-110	04/28/2023
Sulfate	mg/L	15	14.9		99	1	90-110	04/28/2023
Orthophosphate as P	mg/L	5	6.90		138	1	90-110	04/28/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125221

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125221BSW								
TOC	mg/L	10	10.6		106	1	90-110	05/01/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125221

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125221BSW2								
TOC	mg/L	10	10.2		102	1	90-110	05/02/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125221

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125221BSW3								
TOC	mg/L	10	10.3		103	1	90-110	05/03/2023

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Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125267

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125267BS								
COD	mg/L	50	50.0		100	1	90-110	05/03/2023

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125291

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125291BSW								
Alkalinity	mg/L	50	48.6		97	1	80-120	05/04/2032

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125301

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB125301BS								
Alkalinity	mg/L	50	53.2		106	1	80-120	05/05/2023

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125282

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB152437BS								
TKN	mg/L	5	5.10		102	1	90-110	05/04/2023

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125184

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB152445BS								
Phenolics	mg/L	1	0.97		97	1	80-120	04/27/2023

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125211

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB152488BS								
Cyanide	mg/L	0.1	0.097		97	1	85-115	04/28/2023

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample Summary

Client:	GEI Consultants, Inc., P.C.	**SDG No.:**	O2521
Project:	Ferry Point	**Run No.:**	LB125248

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB152517BS								
Ammonia as N	**mg/L**	**1**	**0.93**		**93**	**1**	**90-110**	**05/02/2023**

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. 02521
COC Number 2038362

9
9.1

CLIENT INFORMATION — REPORT TO BE SENT TO:

COMPANY: GEI Consultants
ADDRESS: 530 7th Ave. Suite 2007
CITY NY STATE: NY ZIP: 10018
ATTENTION: Stacey Ng
PHONE: (347) 514-3861 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Ferry Point
PROJECT NO.: 2204594 LOCATION: Bronx, NY
PROJECT MANAGER: Stacey Ng
e-mail: sng@geiconsultants.com
PHONE: SAME FAX:

CLIENT BILLING INFORMATION

BILL TO: SAME AS CLIENT PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ US EPA CLP
- ☒ NYS ASP A
- ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT _____

ANALYSIS

1 Phenolics 2 TCL VOC 3 Color 4 BOD5 5 Alkalinity 6 TDS 7 TCL SVOC 8 Mercury, TAL Metals 9 Hardness

PRESERVATIVES — **COMMENTS**

← Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
1.	GMW-1	W			4/26/23	8:36	19	X	X	X	X	X	X	X	X	X	
2.	PZ-15	↓			↓	9:54	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
3.	GMW-10	↓			↓	11:16	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
4.	GMW-7	↓			↓	13:21	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
5.	MS	↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
6.	MSD	↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
7.	~~T~~FB-2																
8.	FB																
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	4/26/23 15:04	1. [signature] 1504 4-26-23
2.		2.
3. [signature]	4-26-23 1830	3. SB

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 5.1 °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

2/6/23 WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. 02521
COC Number 2038363

9
9.1

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: GEI Consultants
ADDRESS: 530 7th Ave. Suite 2007
CITY: NY STATE: NY ZIP: 10018
ATTENTION: Stacey Ng
PHONE: (347) 514-3861 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Ferry Point
PROJECT NO. 2204594 LOCATION: Bronx, NY
PROJECT MANAGER: Stacey Ng
e-mail: sng@geiconsultants.com
PHONE: (347) 514-3861 FAX:

CLIENT BILLING INFORMATION

BILL TO: SAME AS CLIENT PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ EDD FORMAT _____
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☒ NYS ASP A ☐ NYS ASP B
- ☐ Other _____

ANALYSIS

1 Cyanide 2 COD 3 Ammonia 4 TKN 5 Dissolved Metals 6 Total Metals 7 Chloride, Bromide, Sulfate, nitrate, nitrite 8 pH 9 TOC

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
1.	GMW-7	W			4/26/23	8:36	19	X	X	X	X	X	X	X	X		
2.	PZ-15	↓			↓	9:54	↓	↓	↓	↓	↓	↓	↓	↓	↓		
3.	GMW-10	↓			↓	11:16	↓	↓	↓	↓	↓	↓	↓	↓	↓		
4.	GMW-7	↓			↓	13:21	↓	↓	↓	↓	↓	↓	↓	↓	↓		
5.	MS	↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		
6.	MSD	↓			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		
7.	~~TB~~ FB-2																
8.	FB																
9.																	
10.																	

PRESERVATIVES — ← Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	4/26/23 15:04	1. [signature] 1504 4-26-23
2.		2.
3. [signature]	DATE/TIME: 1830 4-26-23	3. SB

Conditions of bottles or coolers at receipt: ☑ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 5.1 °C
Comments:

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2022022
Maryland	296
New Hampshire	255422
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488-22-15

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : O2521 GEIC06
Client Name : GEI Consultants, Inc., P.C.
Client Contact : Stacey Ng
Invoice Name : GEI Consultants, Inc., P.C.
Invoice Contact : Stacey Ng

Order Date : 4/27/2023 8:52:00 AM
Project Name : Ferry Point
Receive DateTime : 4/26/2023 6:30:00 PM
Purchase Order :

Project Mgr :
Report Type : ~~Level 2~~ NYS ASP A SB 5/8/23
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
O2521-01	GMW-1	Water	04/26/2023	08:36						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
O2521-03	PZ-15	Water	04/26/2023	09:54						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
O2521-05	GMW-10	Water	04/26/2023	11:16						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
O2521-07	GMW-7	Water	04/26/2023	13:21						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
O2521-09	O2521-07MS	Water	04/26/2023	13:21						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
O2521-10	O2521-07MSD	Water	04/26/2023	13:21						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
O2521-13	TB-2	Water	04/26/2023	00:00						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		
O2521-14	FB	Water	04/26/2023	00:00						
					VOC-TCLVOA-10		8260-Low	10 Bus. Days		

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : O2521 GEIC06
Client Name : GEI Consultants, Inc., P.C.
Client Contact : Stacey Ng
Invoice Name : GEI Consultants, Inc., P.C.
Invoice Contact : Stacey Ng

Order Date : 4/27/2023 8:52:00 AM
Project Name : Ferry Point
Receive DateTime : 4/26/2023 6:30:00 PM
Purchase Order :

Project Mgr :
Report Type : ~~Level 2~~ NYS ASP A SB 5/8/23
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinquished By : [signature]
Date / Time : 0853 4/27/23 9.50

Received By : [signature]
Date / Time : 04/27/23 9.50 Neg 4

Storage Area : VOA Refridgerator Room

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4996 I F: (718) 482-6391
www.dec.ny.gov

January 7, 2020

Marty Rowland, Ph.D., P.E.
Senior Project Manager for Environmental Remediation
New York City Department of Parks and Recreation
Central Project Division, Environmental Unit
Olmstead Center
Flushing Meadows
Corona Park
Flushing, NY 11368

Re: Ferry Point Park Golf Course
Permit No. 2-6006-00014/00013
Post-Closure Groundwater Monitoring
Request for Cessation for Groundwater Monitoring

Dear Mr. Rowland,

New York State Department of Environmental Conservation (Department) staff have reviewed your November 20, 2019 request to terminate the Ferry Point Golf Course post-closure groundwater monitoring program This request is based on the relatively consistent ground water elevation and flow direction, the laboratory results from ground water samples collected during both pre-closure and post closure monitoring over an eight-year period of monitoring events, and the lack of any potential direct receptors or routes of exposure associated with ground water at Ferry Point Park.

After careful review of the post-closure groundwater monitoring program, the laboratory results from ground water samples collected during both pre-closure and post closure monitoring over an eight-year period of monitoring events and specific circumstances and history of this site, the Department cannot grant this request but rather the following frequency reduction to the Ferry Point Golf Course groundwater monitoring program can be implemented:

1) Starting immediately, the Ferry Point Golf Course groundwater monitoring frequency can be reduced from annual to once every two years through 2030.

2) After 2030, the Ferry Point Golf Course groundwater monitoring frequency can be modified from once every two years to once every five years indefinitely as custodial care consistent with Part 363-9.6(b).

If you have any questions you may contact me at 718-482-4996.

Sincerely,

Kenneth B. Brezner

Kenneth B. Brezner, P.E.
Regional Material Management Engineer

ec: J. O'Connell/W. Frank, DEC R2, DMM
S. Southwell, DEC R2, DOW
K. Zias, NYCDPR
S. Laura, Woodard and Curran

FPP_Post-Closure_Groundwater_Monitoring_request_for_Cessation.2020-01-07.Letter.docx

Appendix C

Landfill Gas Monitoring Reports

April 20, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: Quarterly Landfill Gas Monitoring - Quarter 1, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the quarterly post-closure landfill gas monitoring event conducted on March 28-30, 2023, at the Ferry Point Park Golf Course. Landfill gas monitoring is conducted to measure and report landfill-related parameters at on-Site and off-Site monitoring points in compliance with the NYSDEC Permit No. 2-6006-00014/00013, the October 2013 *Post Construction Custodial Care Plan*, and the October 2013 *Landfill Gas Management Plan*.

Landfill gas monitoring included the collection of methane (percent methane by volume, percent lower explosive limit [LEL]), oxygen, carbon monoxide, hydrogen sulfide, organic vapors, well pressure, humidity, air flow, vacuum pressures, and/or temperature measurements. Data was collected using a photoionization detector (PID), a TSI Velocicalc, and a Landtek GEM5000 with CO and H_2S. All equipment was properly calibrated prior to data collection.

The Quarter 1, 2023 data tables and figure are provided in this report. Overall, the landfill gas monitoring results are consistent with prior post-closure monitoring events and illustrates that landfill gas conditions are stable.

If you have any questions, please feel free to contact me at (347) 514–3861.

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Quarter 1, 2023 Methane Monitoring Results
Figure 2 – Landfill Gas & Passive Vent Locations
Table 7A – Summary of Landfill Gas Monitoring Data March 28-30, 2023
Table 7B – Summary of Passive Vent Monitoring Data March 28-30, 2023

c: M. Rowland, NYCDPR

K. Zias, NYCDPR

K. McCarty, GEI

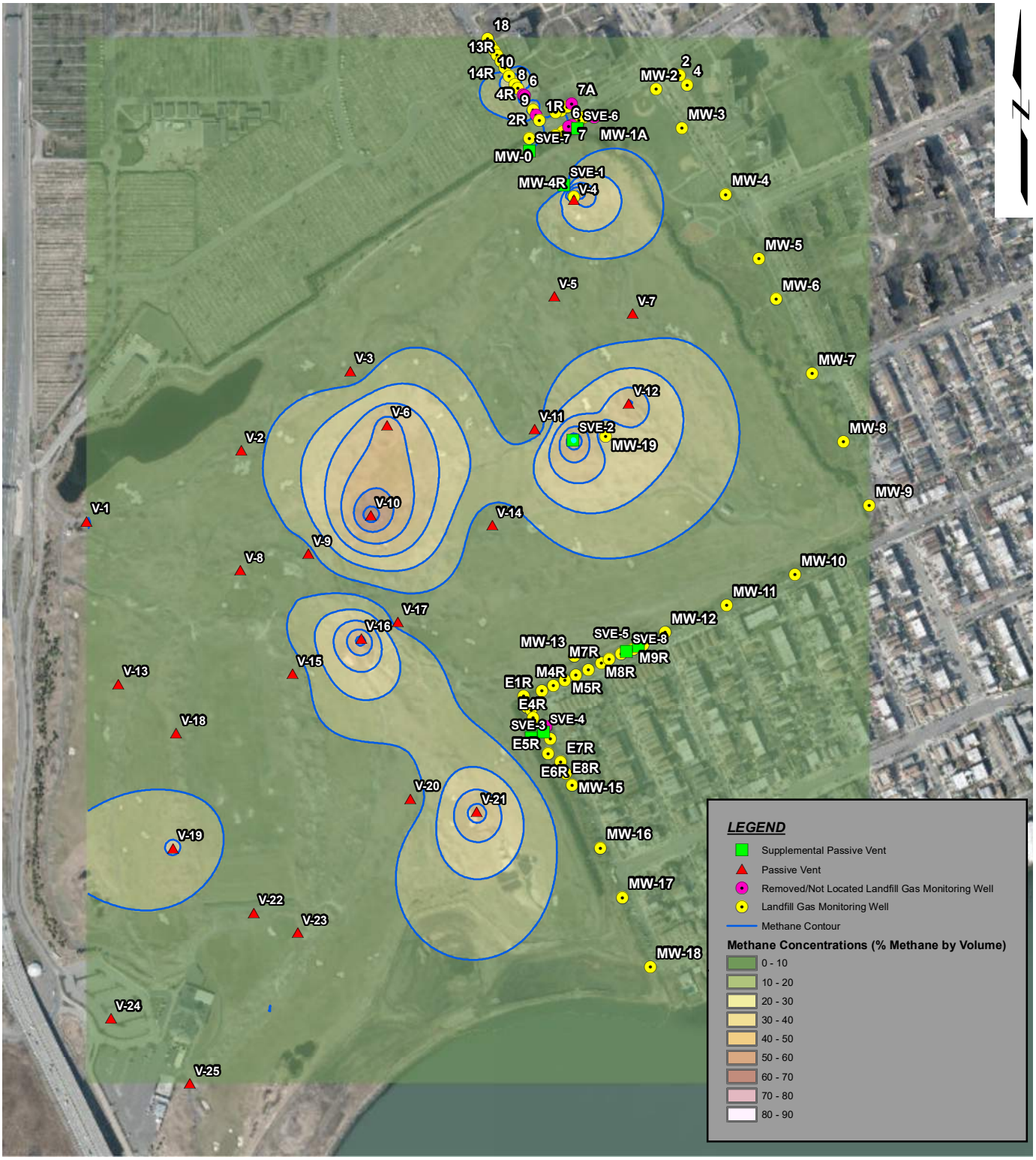

SOURCE:
1. ESRI IMAGERY BASE MAP

0 420 840
SCALE: 1 " = 575 '

Ferry Point Park Bronx, New York Landfill Gas Monitoring	GEI Consultants	QUARTER 1, 2023 METHANE MONITORING
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	April 2023 Fig. 1

B:\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\Reports\Landfill Gas Monitoring\GEI Inspections\Q1 2023\Q1 2023 Landfill Gas Monitoring.mxd

LEGEND

- Passive Vent
- Supplemental Passive Vent
- Removed/Not Located Landfill Gas Monitoring Well
- Landfill Gas Monitoring Well
- Vent Trench

SOURCE:
1. ESRI IMAGERY BASE MAP

0 140 280
SCALE:1" = 200 '

Ferry Point Park Bronx, New York Landfill Gas Monitoring	GEI Consultants	LANDFILL GAS & PASSIVE VENT LOCATIONS
New York City Department of Parks & Recreation (NYCDPR)	Project 2204594	Fig. 2

Table 7A -
Summary of Landfill Gas Monitoring Data March 28-30, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Location	Well ID	%LEL	% Meth by vol	$\%O_2$	CO (ppm)	%CO2	H_2S (ppm)	Voc's (ppm)	Well Pressure (Hg)	Temperature degrees F	Vacuum (in H20)	Notes
Emerson Ave	MW17	4	0.2	19.0	0	0.1	0	0.2	30.12	59.7	0.005	
	MW16	2	0.1	20.9	0	0.2	0	0.1	30.16	55.3	0.006	
	MW15	2	0.1	9.7	0	1.8	0	0.0	30.25	61.4	0.718	
	E8R	2	0.1	21.1	0	0.2	0	--	--	--	--	Encountered water during readings collection
	E7R	2	0.1	21.0	0	0.5	0	0.1	30.24	56.7	0.723	
	E5R	2	0.1	21.5	0	0.1	0	0.1	30.29	63.9	-0.001	
	MW14	--	--	--	--	--	--	--	--	--	--	Unable to locate
Miles Ave	M1R	0	0	17.5	0	0.9	0	0.0	30.28	58.1	0.009	Located within golf course
	M2R	0	0	17.9	0	0.8	0	0.0	30.29	59.6	0.010	Located within golf course
	M3R	2	0.1	18.2	0	0.8	0	0.0	30.29	62.6	0.157	Located within golf course
	M4R	10	0.5	19.6	0	0.4	0	0.0	30.23	60.5	0.953	Located within golf course
	M5R	2	0.1	20.9	0	0.1	0	0.1	30.29	57.2	-0.002	Located within golf course
	M6RR	4	0.2	21.1	0	0.4	0	0.1	30.29	57.5	-0.003	Located within golf course
	M7R	2	0.1	21.8	0	0.3	0	0.0	30.29	56.8	-0.001	Located within golf course
	M8R	4	0.2	21.3	0	0.2	0	0.1	30.29	61.2	-0.009	Located within golf course
	M9R	4	0.2	21.2	0	0.1	0	0.1	30.29	59.4	-0.010	Located within golf course
	M10R	4	0.2	17.6	0	2.9	0	0.0	30.29	58.6	-0.011	Located within golf course
	MW11	4	0.2	20.2	0	0.6	0	0.0	30.28	59.3	0.005	
	MW12	4	0.2	21.2	0	0.1	0	0.0	30.29	59.9	0.060	
	MW10	4	0.2	18.2	0	2.6	0	0.1	30.28	56.1	0.002	
Buttrick Ave	18	--	--	--	--	--	--	--	--	--	--	Unable to collect readings; well compacted with soil.
	17R	2	0.1	21.2	0	0.1	0	0.2	30.05	54.5	-0.007	
	16R	2	0.1	21.3	0	0.2	0	0.6	30.05	59.7	-0.004	
	14R	2	0.1	19.1	0	1.6	0	0.3	30.05	64.1	-0.004	
	13R	0	0.0	19.2	0	1.5	0	0.5	30.05	64.6	-0.002	
	12R	0	0.0	19.3	0	0.9	0	0.1	30.05	67.5	-0.005	J-plug cracked
	10	>100	30.2	0.5	0	10.6	0	0.0	30.06	63.7	-0.015	
	9	>100	28.6	2.2	0	10.3	0	0.1	30.06	62.9	-0.009	
	8	>100	27.5	4.7	0	9.7	0	0.1	30.04	61.3	0.348	
	6	--	--	--	--	--	--	--	--	--	--	Removed
	4R	--	--	--	--	--	--	--	--	--	--	Removed
	3R	>100	29.1	1.9	0	10.0	0	0.1	30.06	59.5	0.004	
	2R	--	--	--	--	--	--	--	--	--	--	Removed
	1R	8	0.4	18.1	0	3.7	0	0.1	30.06	60.3	-0.003	

Table 7A -
Summary of Landfill Gas Monitoring Data March 28-30, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Location	Well ID	%LEL	% Meth by vol	$\%O_2$	CO (ppm)	%CO2	H_2S (ppm)	Voc's (ppm)	Well Pressure (Hg)	Temperature degrees F	Vacuum (in H20)	Notes
Schley Ave	4A	2	0.1	21.8	0	0.2	0	0.1	30.04	62.1	0.030	Previously noted as "removed," however well was able to be located
	5N	2	0.1	20.6	0	0.7	0	0.1	30.06	64.3	0.007	
	7R	2	0.1	19.6	0	1.2	0	0.1	30.06	59.6	0.009	
	7A	--	--	--	--	--	--	--	--	--	--	Removed
	5S	2	0.1	21.5	0	0.5	0	0.1	30.03	58.7	-0.007	
	6	--	--	--	--	--	--	--	--	--	--	Removed
	7	--	--	--	--	--	--	--	--	--	--	Removed
	8	20	1.0	20.3	0	0.9	0	0.1	30.03	61.9	0.382	
	9	2	0.1	22.0	0	0.2	0	0.1	30.05	60.2	0.336	
	10	2	0.1	22.0	0	0.1	0	0.1	30.06	58.4	0.459	
Balcom Ave	2	2	0.1	21.3	0	0.5	0	0.1	30.03	57.3	0.005	
	4	2	0.1	21.6	0	0.3	0	0.2	30.01	58.6	0.014	
	MW2	2	0.1	21.5	0	0.2	0	0.1	30.03	59.4	0.915	
	MW3	2	0.1	21.5	0	0.1	0	0.1	30.03	60.1	0.004	
Landfill	MW4R	>100	87.3	0.1	0	5.7	0	0.1	30.06	56.7	-0.035	
	MW1A	--	--	--	--	--	--	--	--	--	--	Unable to locate
	MW0	4	0.2	16.5	0	5.5	0	0	30.06	59.1	0.003	
	MW4	2	0.1	13.7	0	6.1	0	0.7	30.04	59.7	-0.005	Located within community park
	MW5	2	0.1	20.0	0	1.0	0	0.3	30.05	59.3	-0.002	Located within community park
	MW6	2	0.1	20.1	2	1.0	0	0.1	30.05	58.9	0.010	Located within community park
	MW7	2	0.1	16.2	0	3.8	0	0.4	30.05	58.2	-0.002	Located within community park
	MW8	2	0.1	13.8	0	6.5	0	0.7	30.05	59.1	-0.004	Located within community park
	MW9	4	0.2	21.5	0	0.5	0	0.0	30.10	60.1	0.077	
	MW13	4	0.2	21.4	0	0.6	0	0.1	30.17	55.9	-0.015	
	E1R	2	0.1	21.1	0	0.3	0	0.1	30.15	58.3	0.001	
	E2R	2	0.1	20.4	0	0.5	0	0.0	30.14	57.2	0.007	
	E3R	2	0.1	20.4	0	0.2	0	0.1	30.16	59.4	0.002	
	E4R	2	0.1	21.3	0	0.1	0	0.0	30.11	56.3	0.395	
	E6R	2	0.1	21.4	0	0.1	0	0.1	30.12	57.9	-0.002	
	MW18	4	0.2	17.6	0	3	0	0.1	30.16	58.0	0.005	
	MW19	>100	22.8	0	0	13.9	1	0.2	30.10	59.4	-0.191	Broken J-plug

NOTES:
LEL - Lower Explosive Limit
% O2 - percent Oxgyen gas
% CO2 - percent Carbon Dioxide
H2S (ppm) - Hydrogen Sulfide measured in parts per million
VOCs (ppm) - Volatile Organic Compounds measured in parts per million
"Hg - inches of mercury

Table 7B
Summary of Passive Vent Monitoring Data March 28-30, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Passive Vent ID	% LEL	% Methane by volume	% O_2	CO (ppm)	% CO_2	H_2S (ppm)	VOC's (ppm)	Barometric Pressure (" Hg)	Vacuum (in H2O)	Flow (CFM)	Flow (Ft/min)	Notes
V-1	2	0.1	21.5	0	0.1	0	0.0	30.12	-0.004	0.00	0	
V-2	>100	5.2	17.5	0	2.7	0	0.0	30.09	-0.004	0.00	0	
V-3	8	0.4	20.8	0	0.6	0	0.0	30.11	-0.004	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-4	4	0.2	22.3	0	0.1	0	0.0	30.13	0.000	0.00	0	
V-5	0	0.0	21.5	0	0.0	0	0.0	30.10	-0.003	0.00	0	
V-6	>100	47.1	0.1	0	8.0	0	0.5	30.08	-0.003	0.00	0	
V-7	6	0.3	21.7	0	0.1	0	0.0	30.12	0.000	0.00	0	
V-8	4	0.2	15.1	0	1.3	0	0.1	30.06	-0.004	0.00	0	
V-9	2	0.1	21.6	0	0.1	0	0.1	30.07	-0.004	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-10	>100	68.0	2.7	1	31.0	5	2.0	30.09	0.000	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-11	2	0.1	21.1	0	0.1	0	0.0	30.09	-0.006	0.00	0	
V-12	>100	41.4	0.2	1	11.2	0	0.0	30.10	-0.004	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-13	2	0.1	21.0	0	0.1	0	0.0	30.12	-0.003	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-14	2	0.1	21.6	0	0.1	0	0.0	30.10	-0.004	0.00	0	
V-15	20	1.0	21.6	0	0.1	0	0.1	30.05	-0.005	0.00	0	
V-16	>100	56.1	0.1	3	20.7	0	1.6	30.04	-0.004	5.19	55	
V-17	100	5.0	6.6	2	11.6	0	0.0	30.10	-0.003	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-18	2	0.1	21.4	0	0.1	0	0.0	30.12	-0.003	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-19	>100	22.5	0.7	0	15.3	0	0.0	30.13	-0.002	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-20	2	0.1	21.4	0	0.1	0	0.1	30.13	0.000	0.00	0	
V-21	>100	48.3	0.2	0	18.3	0	0.0	30.14	0.009	0.52	5	
V-22	2	0.1	21.5	0	0.1	0	0.0	30.09	0.000	0.00	0	
V-23	2	0.1	21.5	0	0.1	0	0.0	30.03	-0.003	0.00	0	
V-24	2	0.1	21.4	0	0.1	0	0.1	30.14	-0.003	0.00	0	
V-25	4	0.2	21.3	0	0.1	0	0.0	30.12	-0.005	0.00	0	
SVE-1	6	0.3	21.7	0	0.1	0	0.0	30.13	0.000	0.00	0	
SVE-2	>100	61.3	0.0	0	9.1	0	0.2	30.08	-0.044	0.00	0	
SVE-3	2	0.1	21.4	0	0.1	0	0.0	30.16	0.000	0.00	0	
SVE-4	2	0.1	20.9	0	0.6	0	0.1	30.16	0.000	0.00	0	
SVE-5	4	0.2	21.1	0.0	0.2	0	0.0	30.28	-0.002	0.00	0	
SVE-6	4	0.2	22.2	0.0	0.1	0	0.0	30.15	0.000	0.00	0	
SVE-7	4	0.2	22.1	0.1	0.0	0	0.0	30.14	0.000	0.00	0	
SVE-8	4	0.2	21.2	0.0	0.1	0	0.0	30.28	-0.001	0.00	0	

NOTES:
LEL - Lower Explosive Limit
% O_2 - percent Oxgyen gas
% CO_2 - percent Carbon Dioxide
H_2S (ppm) - Hydrogen Sulfide measured in parts per million
VOCs (ppm) - Volatile Organic Compounds measured in parts per million
" Hg - inches of mercury

July 17, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Re: Quarterly Landfill Gas Monitoring - Quarter 2, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

Dear Ms. Catalanotto:

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the quarterly post-closure landfill gas monitoring event conducted on June 27-28, 2023, at the Ferry Point Park Golf Course. Landfill gas monitoring is conducted to measure and report landfill-related parameters at on-Site and off-Site monitoring points in compliance with the NYSDEC Permit No. 2-6006-00014/00013, the October 2013 *Post Construction Custodial Care Plan*, and the October 2013 *Landfill Gas Management Plan*.

Landfill gas monitoring included the collection of methane (percent methane by volume, percent lower explosive limit [LEL]), oxygen, carbon monoxide, hydrogen sulfide, organic vapors, well pressure, humidity, air flow, vacuum pressures, and/or temperature measurements. Data was collected using a photoionization detector (PID), a TSI Velocicalc, and a Landtek GEM5000 with CO and H_2S. All equipment was properly calibrated prior to data collection.

The Quarter 2, 2023 data tables and figure are provided in this report. Overall, the landfill gas monitoring results are consistent with prior post-closure monitoring events and illustrates that landfill gas conditions are stable.

If you have any questions, please feel free to contact me at (347) 514–3861.

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Quarter 2, 2023 Methane Monitoring Results
Figure 2 – Landfill Gas & Passive Vent Locations
Table 8A – Summary of Landfill Gas Monitoring Data June 27-28, 2023
Table 8B – Summary of Passive Vent Monitoring Data June 27-28, 2023

c: M. Rowland, NYCDPR

K. Zias, NYCDPR

K. McCarty, GEI

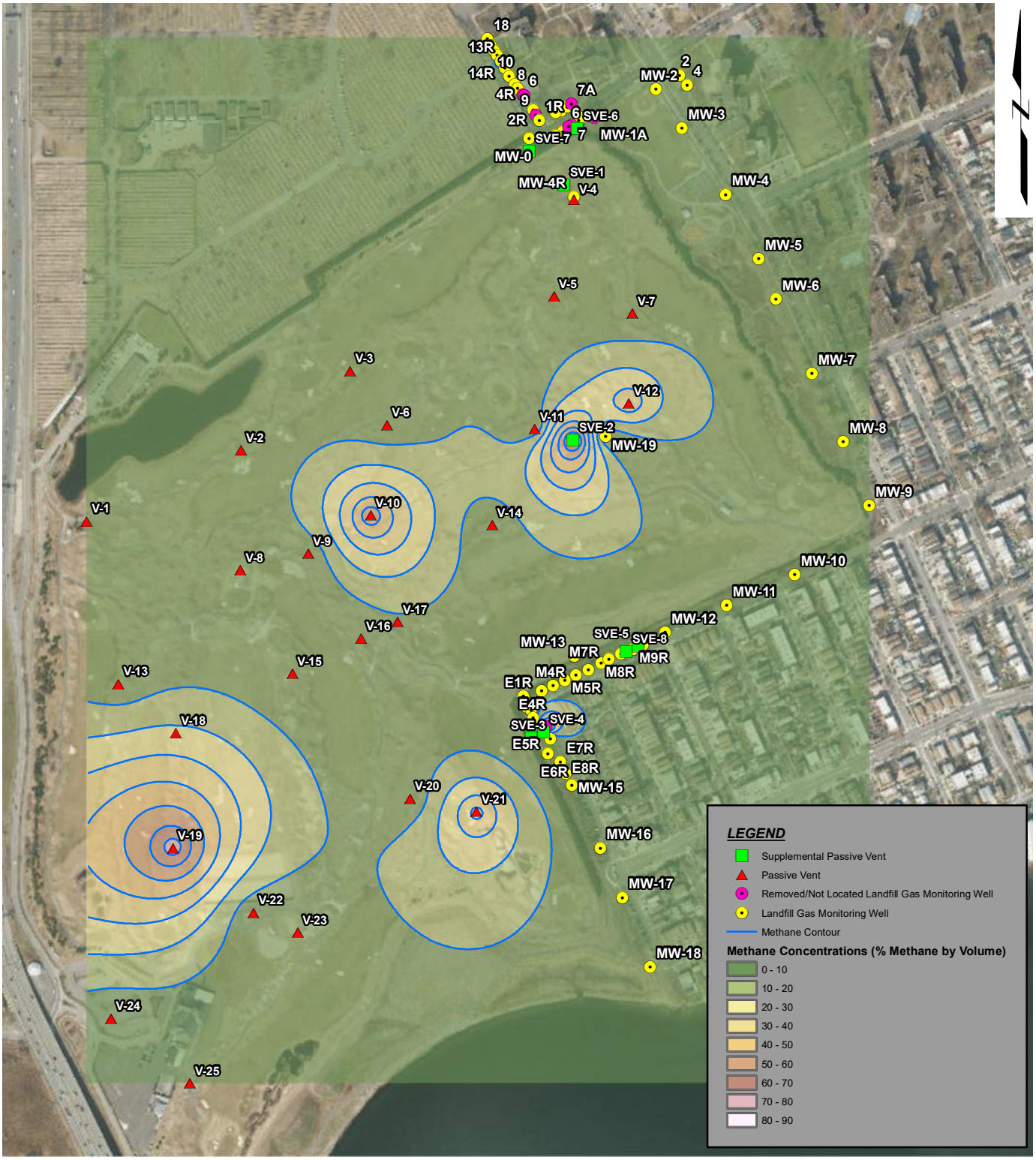

SOURCE:
1. ESRI IMAGERY BASE MAP

0 420 840
SCALE: 1 " = 575 '

Ferry Point Park Bronx, New York Landfill Gas Monitoring	GEI Consultants	QUARTER 2, 2023 METHANE MONITORING
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	July 2023 Fig. 1

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LEGEND

- Passive Vent
- Supplemental Passive Vent
- Removed/Not Located Landfill Gas Monitoring Well
- Landfill Gas Monitoring Well
- Vent Trench

SOURCE:
1. ESRI IMAGERY BASE MAP

0 140 280
SCALE:1" = 200 '

Ferry Point Park Bronx, New York Landfill Gas Monitoring	GEI Consultants	LANDFILL GAS & PASSIVE VENT LOCATIONS
New York City Department of Parks & Recreation (NYCDPR)	Project 2204594	Fig. 2

Table 8A -
Summary of Landfill Gas Monitoring Data June 27-28, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Location	Well ID	%LEL	% Meth by vol	$\%O_2$	CO (ppm)	%CO2	H_2S (ppm)	VOCs (ppm)	Well Pressure (Hg)	Temperature degrees F	Vacuum (in H20)	Notes
Emerson Ave	MW17	0	0	9.5	0	0.3	0	0.2	29.68	67.1	-0.207	
	MW16	0	0	4.3	0	0.6	0	0.5	29.69	67.1	0.018	
	MW15	0	0	3.8	0	9.5	0	0.7	29.81	66.5	0.021	
	E8R	14	0.7	19.9	0	0.5	0	1.1	29.81	66.7	0.020	
	E7R	8	0.4	19.9	0	0.3	0	1.2	29.81	67.3	0.006	
	E5R	0	0	18.9	0	0.1	0	0.1	29.81	66.4	0.114	J-plug hose bent
	MW14	>100	70.6	<<	2	27.8	0	1.5	29.81	66.1	-2.268	Well was located during this monitoring event
Miles Ave	M1R	0	0	16.8	1	4.3	0	0.8	29.80	57.3	0.016	Located within golf course; J-plug hose bent
	M2R	0	0	17.8	1	0.1	0	0.2	29.70	56.4	0.017	Located within golf course
	M3R	0	0	20.1	0	0	0	0.2	29.70	58.9	0.016	Located within golf course
	M4R	0	0	20.5	0	0.1	0	0.1	29.70	55.3	0.014	Located within golf course
	M5R	0	0	20.6	0	0.1	0	0.1	29.70	68.1	0.016	Located within golf course
	M6RR	0	0	21	0	0	0	0.1	29.70	56.9	0.016	Located within golf course
	M7R	0	0	21.2	1	0.1	0	0.2	29.70	54.1	0.015	Located within golf course
	M8R	0	0	22	0	0.1	0	0.7	29.69	67.1	0.014	Located within golf course
	M9R	0	0	21.9	0	0.1	0	0.1	29.69	67.1	0.016	Located within golf course; J-plug hose bent
	M10R	0	0	21.7	0	0.1	0	0.1	29.69	68.3	0.016	Located within golf course
	MW10	0	0	21.8	0	0	0	0.2	29.67	65.4	0.015	J-plug hose bent
	MW11	0	0	9.4	0	8.3	0	0.6	29.80	66.5	0.016	
	MW12	0	0	22.1	0	0	0	0.4	29.80	67.1	-0.612	
Buttrick Ave	18	--	--	--	--	--	--	--	--	--	--	Unable to collect readings; well compacted with soil.
	17R	0	0	20.8	0	1.2	0	0.1	29.76	68.9	0.015	J-plug hose bent
	16R	0	0	21.4	0	0.4	0	0.1	29.77	71.3	0.015	
	14R	0	0	18.4	0	2.6	0	0.1	29.77	72.8	0.015	
	13R	>100	21.8	<<	0	9.9	0	0.6	29.77	72.3	0.012	
	12R	12	0.6	18.5	1	1.4	0	0.1	29.78	74.1	0.016	J-plug hose bent
	10	>100	12.8	5.2	0	10.1	0	0.8	29.78	74.0	0.016	
	9	0	0	21.8	0	0.2	0	0.1	29.78	72.5	-0.037	J-plug hose bent
	8	0	0	18.7	0	0.2	0	1.1	29.78	71.6	0.013	
	6	--	--	--	--	--	--	--	--	--	--	Removed
	4R	--	--	--	--	--	--	--	--	--	--	Removed
	3R	0	0	20.8	0	0.7	0	0.3	29.78	73.1	0.019	J-plug hose bent
	2R	--	--	--	--	--	--	--	--	--	--	Removed
	1R	0	0	15.9	0	5.9	0	0.2	29.78	71.8	0.016	

Table 8A -
Summary of Landfill Gas Monitoring Data June 27-28, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Location	Well ID	%LEL	% Meth by vol	$\%O_2$	CO (ppm)	%CO2	H_2S (ppm)	VOCs (ppm)	Well Pressure (Hg)	Temperature degrees F	Vacuum (in H20)	Notes
Schley Ave	4A	0	0	21.3	0	0.6	0	0.2	29.80	72.3	0.015	Previously noted as "removed," however well was able to be located
	5N	0	0	20.7	0	0.9	0	0.4	29.79	73.4	0.019	
	7R	0	0	18.3	0	2.6	0	0.2	29.80	72.1	0.018	
	7A	--	--	--	--	--	--	--	--	--	--	Removed
	5S	0	0	20.8	0	1.4	0	0.7	29.79	68.9	0.018	J-plug hose bent
	6	--	--	--	--	--	--	--	--	--	--	Removed
	7	--	--	--	--	--	--	--	--	--	--	Removed
	8	0	0.0	20.1	0	1.6	0	0.3	29.79	67.9	0.018	J-plug hose bent
	9	0	0	20.2	0	1.2	0	0.2	29.79	68.9	0.017	J-plug hose bent
	10	--	--	--	--	--	--	--	--	--	--	Unable to gauge due to insect infestation
Balcom Ave	2	0	0	21.9	0	0.1	0	0.2	29.8	78.3	0.006	No well cover
	4	0	0	21.3	0	0.4	0	0.2	29.8	78.3	0.005	
	MW2	0	0	21.8	0	0.1	0	0.5	29.68	77.1	0.016	
	MW3	0	0	21.8	0	0.1	0	0.3	29.69	76.3	0.016	J-plug hose bent
Landfill	MW4R	0	0	21.7	0	0	0	0.2	29.63	78.3	0.013	
	MW1A	--	--	--	--	--	--	--	--	--	--	Unable to locate
	MW0	--	--	--	--	--	--	--	--	--	--	Unable to gauge due to wildlife in the area
	MW4	--	--	--	--	--	--	--	--	--	--	Located within community park; Unable gauge due to insect infestation
	MW5	0	0	22.0	0	0.1	0	0.5	29.68	76.5	0.016	Located within community park
	MW6	0	0	21.8	0	0.1	0	0.2	29.68	75.4	0.018	Located within community park; J-plug hose bent
	MW7	0	0	10.2	0	7	0	0.4	29.68	78.1	0.011	Located within community park
	MW8	0	0	22.1	0	0	0	0.2	29.68	78.1	0.016	Located within community park
	MW9	0	0	22.1	0	0	0	0.2	29.68	76.2	-0.382	Located within golf course
	MW13	0	0	21.4	0	0.1	0	0.2	29.7	73.8	0.028	Located within golf course
	E1R	0	0	22.6	1	0.1	0	0.1	29.6	76.1	0.009	
	E2R	--	--	--	--	--	--	--	--	--	--	Unable to access due to overgrown vegetation
	E3R	--	--	--	--	--	--	--	--	--	--	Unable to access due to overgrown vegetation
	E4R	--	--	--	--	--	--	--	--	--	--	Unable to access due to overgrown vegetation
	E6R	--	--	--	--	--	--	--	--	--	--	Unable to access due to overgrown vegetation
	MW18	--	--	--	--	--	--	--	--	--	--	Unable to access due to locked entrance
	MW19	12	0.6	15.6	0	4.5	0	4.2	29.67	76.5	0.024	J-plug hose bent

NOTES:
LEL - Lower Explosive Limit
% O2 - percent Oxygen gas
% CO2 - percent Carbon Dioxide
H2S (ppm) - Hydrogen Sulfide measured in parts per million
VOCs (ppm) - Volatile Organic Compounds measured in parts per million
"Hg - inches of mercury
<< - Undetectable reading on GEM5000 screen

Table 8B
Summary of Passive Vent Monitoring Data June 27-28, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Passive Vent ID	% LEL	% Methane by volume	% O_2	CO (ppm)	% CO_2	H_2S (ppm)	VOC's (ppm)	Barometric Pressure (" Hg)	Vacuum (in H2O)	Flow (CFM)	Flow (Ft/min)	Notes
V-1	0	0.0	19.6	0	0.0	0	0.1	29.68	0.016	0.00	0	
V-2	0	0.0	14.4	0	0.0	0	0.2	29.68	0.015	0.00	0	
V-3	0	0.0	0.9	0	0.0	0	0.1	29.67	0.015	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-4	0	0.0	21.8	0	0.0	0	0.1	29.65	0.010	0.00	0	
V-5	0	0.0	2.2	0	0.0	0	0.0	29.68	0.016	0.00	0	
V-6	2	0.1	21.5	0	0.1	0	1.5	29.68	0.015	0.00	0	
V-7	0	0.0	21.8	0	0.1	0	0.1	29.65	0.012	0.00	0	
V-8	0	0.0	21.4	0	0.1	0	1.4	29.67	0.016	0.00	0	
V-9	0	0.0	21.8	0	0.0	0	0.0	29.67	0.026	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-10	>100	60.3	1.4	0	30.0	7	0.3	29.67	0.016	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-11	0	0.0	21.2	0	0.0	0	0.1	29.68	0.016	0.00	0	
V-12	>100	40.3	0.5	2	10.1	5	0.0	29.68	0.013	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-13	10	0.5	21.1	0	0.1	0	1.3	29.68	0.017	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-14	0	0.0	21.5	0	0.0	0	0.0	29.68	0.016	0.00	30	
V-15	0	0.0	21.5	0	0.0	0	0.0	29.67	0.017	0.00	0	
V-16	22	1.1	19.3	0	1.4	0	0.0	29.68	0.016	0.00	29	
V-17	>100	8.5	18.5	1	6.5	0	0.0	29.68	0.016	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-18	>100	22.6	14.0	0	3.0	0	0.9	29.66	0.017	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-19	>100	78.6	0.0	2	19.1	0	0.5	29.68	0.017	--	--	Could not get velocicalc probe down the PVC. Likely affected by outside ambient air flow.
V-20	0	0.0	21.9	0	0.2	0	0.2	29.67	0.015	0.00	33	
V-21	>100	45.1	0.8	1	18.3	0	0.1	29.68	0.012	0.52	5	
V-22	0	0.0	22.1	0	0.2	0	0.2	29.66	0.035	0.00	0	
V-23	--	--	--	--	--	--				0.00	0	Water present in vent up to the PVC.
V-24	0	0.0	21.5	0	0.0	0	0.1	29.68	0.016	0.00	0	
V-25	0	0.0	17.8	0	0.0	0	0.0	29.68	0.015	0.00	0	
SVE-1	0	0.0	22.0	0	0.0	0	0.1	29.64	0.010	0.00	0	
SVE-2	>100	80.4	1.5	0	7.5	0	1.2	29.67	0.018	0.00	0	
SVE-3	0	0.0	21.6	0	0.2	0	0.0	29.68	0.015	0.00	0	
SVE-4	0	0.0	19.8	0	0.0	0	0.0	29.67	0.016	0.00	0	
SVE-5	0	0.0	19.7	0.0	0.1	0	0.0	29.69	0.013	0.00	0	
SVE-6	0	0.0	21.7	0.0	0.0	0	0.0	29.66	0.010	0.00	0	
SVE-7	0	0.0	22.0	0.0	0.1	0	0.0	29.68	0.009	0.00	0	
SVE-8	0	0.0	16.5	0.0	0.1	0	0.0	29.69	0.014	0.00	0	

NOTES:
LEL - Lower Explosive Limit
% O_2 - percent Oxgyen gas
% CO_2 - percent Carbon Dioxide
H_2S (ppm) - Hydrogen Sulfide measured in parts per million
VOCs (ppm) - Volatile Organic Compounds measured in parts per million
" Hg - inches of mercury

Appendix D

Piezometer Monitoring Reports

February 2, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: January 2023 Piezometer Monitoring Event
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the piezometer monitoring event conducted in January 2023 at the Ferry Point Park Golf Course. Monthly piezometer monitoring is conducted in compliance with the October 2013 *Post Construction Custodial Care Plan* and the October 2013 *Landfill Gas Management Plan.*

On January 31, 2023, GEI mobilized to Site to conduct the monthly piezometer monitoring. A summary of the weather condition during the monitoring event is included in Table 1 below:

Table 1 - Summary of January 31, 2023, Weather Conditions

Date: 1/31/2023	**On site:** 07:30	**Off site:** 13:30
Weather Conditions	Light rain and snow	Mostly Cloudy
Temperature	35° F	38° F
Relative Humidity	87%	57%
Wind	NNW 3 mph	NNW 12 mph
Barometric Pressure	30.17 in	30.17 in
Precipitation	0.0 in	0.0 in

GEI gathered water level readings from 24 piezometers utilizing an electronic water level meter between the hours of 7:30 am and 1:30 pm. On January 31, 2023, high

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

tide was at 7:47 am and low tide was at 2:23 pm. Tides were going out during the data collection window.

The attached Table 2 summarizes the January 2023 monitoring event, including the groundwater elevations collected from the piezometers.

Conclusions

The January 2023 piezometer monitoring event results indicate that all piezometers are functional and there is sufficient groundwater contouring to prevent the migration of methane off Site. The collected groundwater elevations are also consistent with historical trends and data.

A routine visual inspection of the piezometers was conducted, and the piezometers were found in good condition as follows:

- The outer protective casings remain locked.
- The inner casings and plugs remain intact and in place; and
- The outer and inner casings remain in good condition and in their intended positions.

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Piezometer Locations
Figure 2 – Summary of January 2023 Piezometer Gauging Results

c: M. Rowland, NYCDPR
K. Zias, NYCDPR
K. McCarty, GEI

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

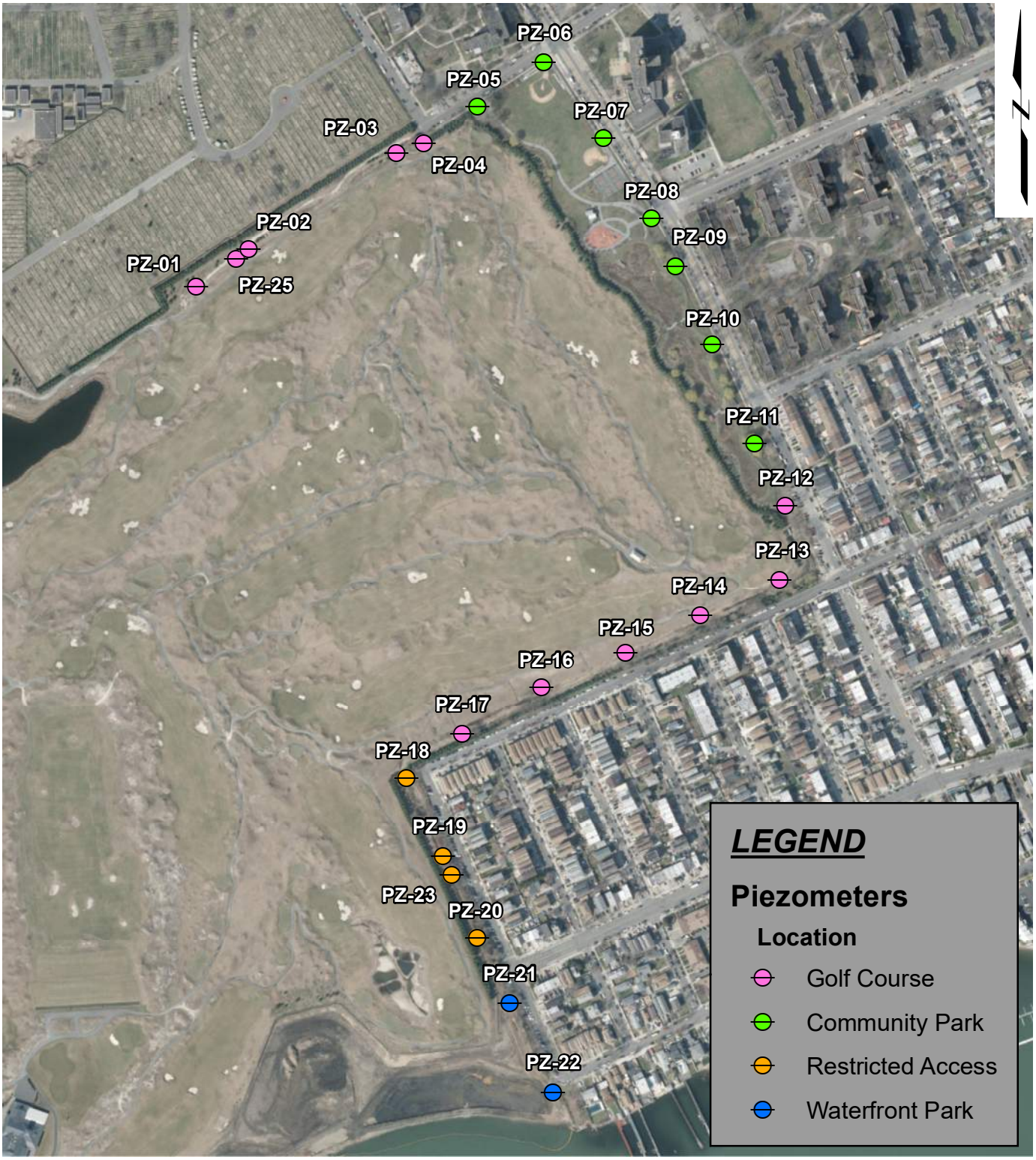

SOURCE:
1. ESRI IMAGERY BASE MAP

0 360 720
SCALE: 1 " = 500 '

Ferry Point Park Bronx, New York Health and Saftey Plan	GEI Consultants	PIEZOMETER LOCATIONS
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	Fig. 1

\\geiconsultants.com\Data\Data_Storage\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\GIS Shapefiles\Figure 1 - Piezometer Locations.mxd

Table 2
Summary of January 31, 2023 Piezometer Gauging Results
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Piezometer ID	Vent Trench Bottom Elevation (feet)	Top of Casing Elevation (feet)	Measured Depth to Water (ft bToC)	Groundwater Elevation (feet)
PZ-1	3.25	24.63	18.10	6.53
PZ-2	1.25	23.49	19.75	3.74
PZ-3	1.2	21.89	18.54	3.35
PZ-4	1.01	21.1	14.75	6.35
PZ-5	0.89	15.72	11.02	4.70
PZ-6	0.61	16.73	10.12	6.61
PZ-7	1.2	16.99	9.99	7.00
PZ-8	3.08	17.87	8.98	8.89
PZ-9	2.82	18.89	9.36	9.53
PZ-10	3.82	18.59	9.45	9.14
PZ-11	2.7	17.68	7.82	9.86
PZ-12	1.96	16.96	9.81	7.15
PZ-13	2.52	9.67	2.54	7.13
PZ-14	NA	10.82	3.24	7.58
PZ-15	NA	9.26	3.06	6.20
PZ-16	NA	9.8	2.72	7.08
PZ-17	NA	9.38	2.77	6.61
PZ-18	3.7	14.42	7.29	7.13
PZ-19	1.6	16.29	9.74	6.55
PZ-20	2.2	11.68	7.11	4.57
PZ-21	1.51	14.46	11.52	2.94
PZ-22	-1.6	13.58	10.04	3.54
PZ-23	1.4	16.46	12.78	3.68
PZ-25	1.35	23.54	19.74	3.80

Note:
ft bToC - feet below top of casing

February 28, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: February 2023 Piezometer Monitoring Event
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the piezometer monitoring event conducted in February 2023 at the Ferry Point Park Golf Course. Monthly piezometer monitoring is conducted in compliance with the October 2013 *Post Construction Custodial Care Plan* and the October 2013 *Landfill Gas Management Plan.*

On February 24, 2023, GEI mobilized to Site to conduct the monthly piezometer monitoring. A summary of the weather condition during the monitoring event is included in Table 1 below:

Table 1 - Summary of February 24, 2023, Weather Conditions		
Date: 2/24/2023	**On site:** 08:00	**Off site:** 13:30
Weather Conditions	Mostly Cloudy	Mostly Sunny
Temperature	45° F	40° F
Relative Humidity	76%	43%
Wind	NW 9 mph	NW 12 mph
Barometric Pressure	30.07 in	30.23 in
Precipitation	0.0 in	0.0 in

GEI gathered water level readings from 24 piezometers utilizing an electronic water level meter between the hours of 8:00 am and 1:30 pm. On February 24, 2023, low

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

tide was at 9:16 am and high tide was at 2:55 pm. Tides were rising during the majority of the data collection window.

The attached Table 2 summarizes the February 2023 monitoring event, including the groundwater elevations collected from the piezometers.

Conclusions

The February 2023 piezometer monitoring event results indicate that all piezometers are functional and there is sufficient groundwater contouring to prevent the migration of methane off Site. The collected groundwater elevations are also consistent with historical trends and data.

A routine visual inspection of the piezometers was conducted, and the piezometers were found in good condition as follows:

- The outer protective casings remain locked.
- The inner casings and plugs remain intact and in place; and
- The outer and inner casings remain in good condition and in their intended positions.

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Piezometer Locations
Figure 2 – Summary of February 2023 Piezometer Gauging Results

c: M. Rowland, NYCDPR
K. Zias, NYCDPR
K. McCarty, GEI

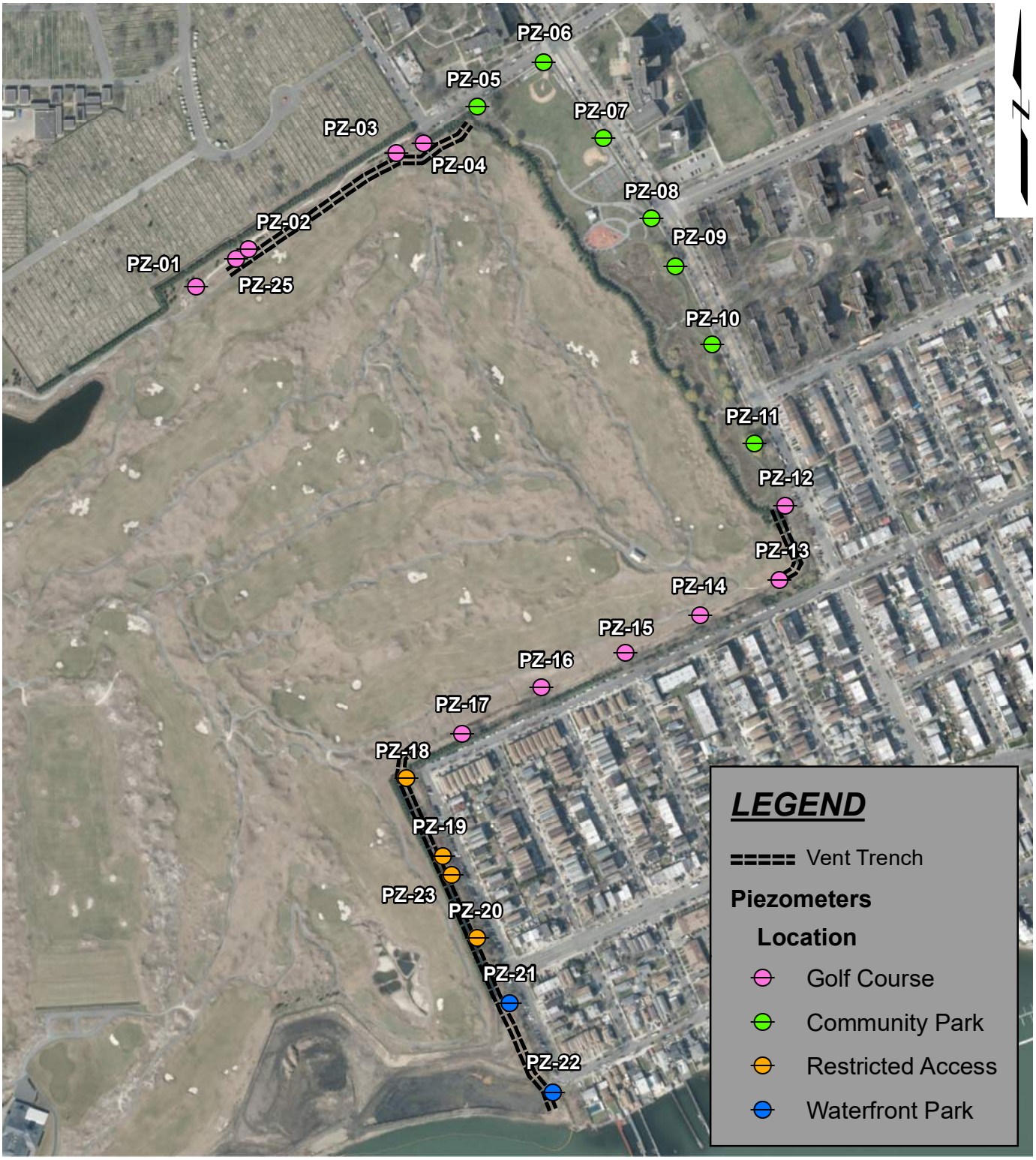

SOURCE:
1. ESRI IMAGERY BASE MAP

0 360 720
SCALE: 1 " = 500 '

Ferry Point Park Bronx, New York Monthly Piezometer Monitoring	GEI Consultants	PIEZOMETER LOCATIONS
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	Fig. 1

\\geiconsultants.com\Data\Data_Storage\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\GIS Shapefiles\Figure 1 - Piezometer Locations with Vent Trench.mxd

Table 2
Summary of February 24, 2023 Piezometer Gauging Results
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Piezometer ID	Vent Trench Bottom Elevation (feet)	Top of Casing Elevation (feet)	Measured Depth to Water (ft bToC)	Groundwater Elevation (feet)
PZ-1	3.25	24.63	18.12	6.51
PZ-2	1.25	23.49	19.78	3.71
PZ-3	1.20	21.89	18.56	3.33
PZ-4	1.01	21.1	14.71	6.39
PZ-5	0.89	15.72	10.99	4.73
PZ-6	0.61	16.73	10.08	6.65
PZ-7	1.20	16.99	9.97	7.02
PZ-8	3.08	17.87	8.92	8.95
PZ-9	2.82	18.89	9.1	9.79
PZ-10	3.82	18.59	9.15	9.44
PZ-11	2.70	17.68	7.75	9.93
PZ-12	1.96	16.96	9.75	7.21
PZ-13	2.52	9.67	2.51	7.16
PZ-14	NA	10.82	3.20	7.62
PZ-15	NA	9.26	2.98	6.28
PZ-16	NA	9.8	2.71	7.09
PZ-17	NA	9.38	2.75	6.63
PZ-18	3.70	14.42	8.61	5.81
PZ-19	1.60	16.29	10.43	5.86
PZ-20	2.20	11.68	7.71	3.97
PZ-21	1.51	14.46	12.16	2.30
PZ-22	-1.60	13.58	12.85	0.73
PZ-23	1.40	16.46	10.61	5.85
PZ-25	1.35	23.54	19.71	3.83

Note:
ft bToC - feet below top of casing

March 30, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: March 2023 Piezometer Monitoring Event
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the piezometer monitoring event conducted in March 2023 at the Ferry Point Park Golf Course. Monthly piezometer monitoring is conducted in compliance with the October 2013 *Post Construction Custodial Care Plan* and the October 2013 *Landfill Gas Management Plan.*

On March 29, 2023, GEI mobilized to Site to conduct the monthly piezometer monitoring. A summary of the weather conditions during the monitoring event is included in Table 1 below:

Table 1 - Summary of March 29, 2023, Weather Conditions		
Date: 3/29/2023	**On site:** 07:00	**Off site:** 15:30
Weather Conditions	Sunny	Mostly Sunny
Temperature	39°F	53°F
Relative Humidity	37%	20%
Wind	NNW 2 mph	SW 8 mph
Barometric Pressure	30.17 in	30.04 in
Precipitation	0.0 in	0.0 in

GEI gathered water level readings from 23 out of 24 currently known piezometers utilizing an electronic water level meter between the hours of 7:00 am and 3:30 pm.

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212.687.8282

On March 29, 2023, low tide was at 11:29 am and high tide was at 5:13 pm. Tides were alternating during the data collection window.

PZ-11 was unable to be located in the southeastern area of the Community Park. The well location was previously marked out on the fronting fence post, adjacent to the park entrance. However, upon inspection of the area, PZ-11 could not be located, possibly due to vegetation, vandalism, or landscaping (downed tree nearby).

Table 2 attached summarizes the March 2023 monitoring event, including the groundwater elevations collected from the accessible piezometers.

Conclusions

The March 2023 piezometer monitoring event results indicate that all piezometers, except PZ-11, are functional and there is sufficient groundwater contouring to prevent the migration of methane off Site. The collected groundwater elevations are also consistent with historical trends and data.

A routine visual inspection of the piezometers was conducted, and all located piezometers were found in good condition as follows:

- The outer protective casings remain locked;
- The inner casings and plugs remain intact and in place; and
- The outer and inner casings remain in good condition and in their intended positions.

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Piezometer Locations
Figure 2 – Summary of March 2023 Piezometer Gauging Results

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

c: M. Rowland, NYCDPR

K. Zias, NYCDPR

K. McCarty, GEI

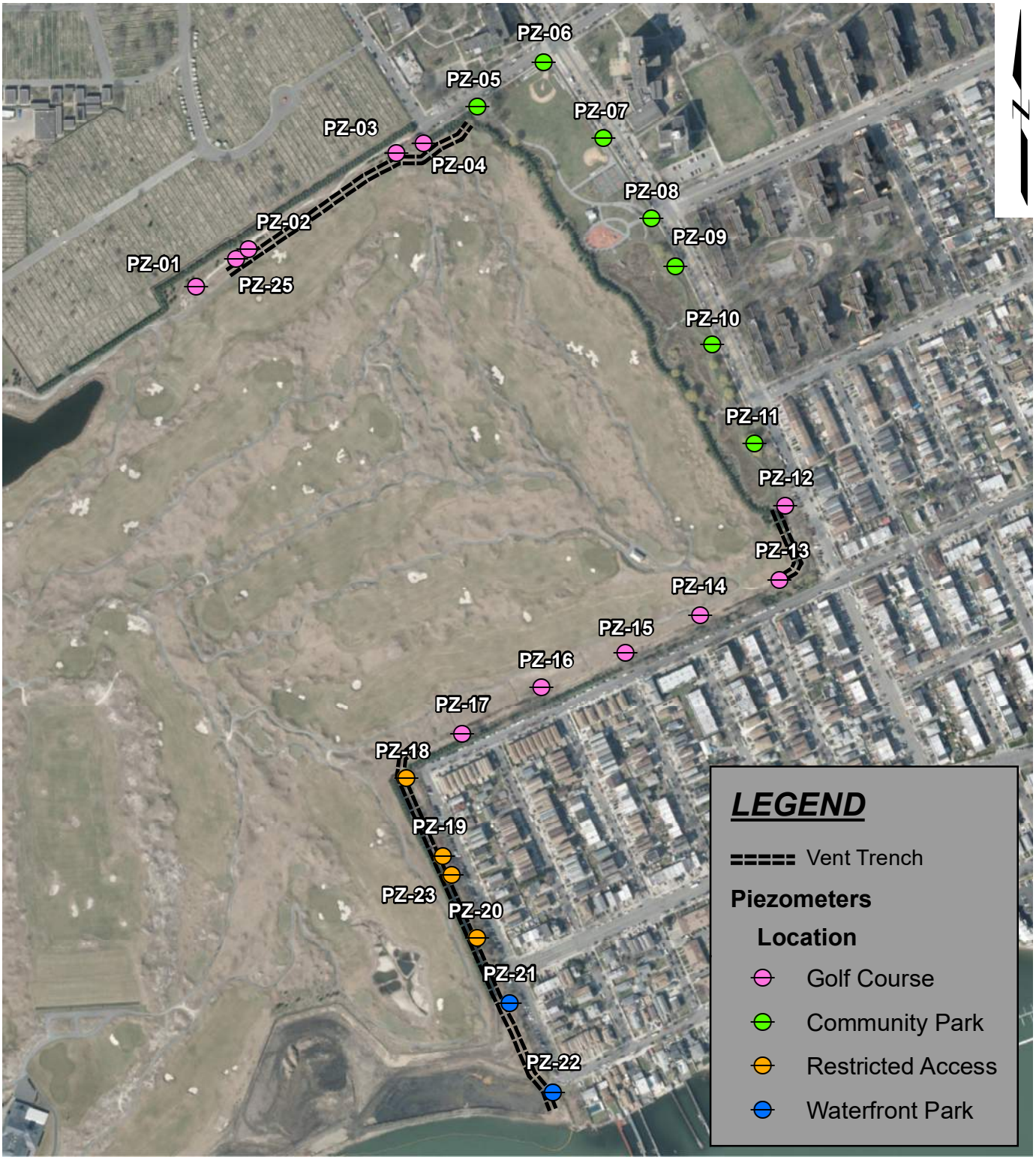

SOURCE:
1. ESRI IMAGERY BASE MAP

0 360 720
SCALE: 1 " = 500 '

Ferry Point Park Bronx, New York Monthly Piezometer Monitoring	GEI Consultants	PIEZOMETER LOCATIONS
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	Fig. 1

\\geiconsultants.com\Data\Data_Storage\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\GIS Shapefiles\Figure 1 - Piezometer Locations with Vent Trench.mxd

Table 2
Summary of March 29, 2023 Piezometer Gauging Results
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Piezometer ID	Vent Trench Bottom Elevation (feet)	Top of Casing Elevation (feet)	Measured Depth to Water (ft bToC)	Groundwater Elevation (feet)
PZ-1	3.25	24.63	21.02	3.61
PZ-2	1.25	23.49	19.87	3.62
PZ-3	1.20	21.89	18.69	3.20
PZ-4	1.01	21.1	14.86	6.24
PZ-5	0.89	15.72	11.16	4.56
PZ-6	0.61	16.73	9.99	6.74
PZ-7	1.20	16.99	9.95	7.04
PZ-8	3.08	17.87	8.98	8.89
PZ-9	2.82	18.89	9.62	9.27
PZ-10	3.82	18.59	9.74	8.85
PZ-11	2.70	17.68	--	--
PZ-12	1.96	16.96	10.02	6.94
PZ-13	2.52	9.67	2.69	6.98
PZ-14	NA	10.82	3.01	7.81
PZ-15	NA	9.26	2.81	6.45
PZ-16	NA	9.8	2.70	7.10
PZ-17	NA	9.38	2.79	6.59
PZ-18	3.70	14.42	7.42	7.00
PZ-19	1.60	16.29	10.10	6.19
PZ-20	2.20	11.68	7.43	4.25
PZ-21	1.51	14.46	12.05	2.41
PZ-22	-1.60	13.58	12.24	1.34
PZ-23	1.40	16.46	13.12	3.34
PZ-25	1.35	23.54	19.83	3.71

Note:
ft bToC - feet below top of casing
NA = PZ's not adjacent to the vent trench
PZ-1 through PZ-22 installed with 5' screen
PZ-23 and PZ-25 installed with 10' screen
Could not locate PZ-11 (within Community Park)

April 27, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: April 2023 Piezometer Monitoring Event
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the piezometer monitoring event conducted in April 2023 at the Ferry Point Park Golf Course. Monthly piezometer monitoring is conducted in compliance with the October 2013 *Post Construction Custodial Care Plan* and the October 2013 *Landfill Gas Management Plan.*

On April 24, 2023, GEI mobilized to Site to conduct the monthly piezometer monitoring. A summary of the weather conditions during the monitoring event is included in Table 1 below:

Table 1 - Summary of April 24, 2023, Weather Conditions		
Date: 4/24/2023	**On site:** 07:00	**Off site:** 13:30
Weather Conditions	Sunny	Partly Sunny
Temperature	45°F	56°F
Relative Humidity	78%	44%
Wind	NW 3 mph	WNW 3 mph
Barometric Pressure	30.04 in	30.02 in
Precipitation	0.0 in	0.0 in

GEI gathered water level readings from 23 out of 24 currently known piezometers utilizing an electronic water level meter between the hours of 7:00 am and 1:30 pm.

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

On April 24, 2023, low tide was at 11:37 am and high tide was at 5:03 pm. Tides were going out during the majority of the data collection window.

Since the March 2023 monitoring event, PZ-11 is still unable to be located in the southeastern area of the Community Park. The well location is marked out on the fronting fence post, adjacent to the park entrance, however, following closer inspection of the area, PZ-11 cannot be located, possibly due to vegetation, vandalism, or landscaping (downed tree nearby).

Evidence of well tampering was noted at PZ-05, also located within the Community Park. Upon arrival, the well cover was found open, leaving the j-plug to the piezometer exposed. GEI re-secured the cover in place following monitoring.

Table 2 attached summarizes the April 2023 monitoring event, including the groundwater elevations collected from the accessible piezometers.

Conclusions

The April 2023 piezometer monitoring event results indicate that all piezometers, except PZ-11, are functional and there is sufficient groundwater contouring to prevent the migration of methane off Site. The collected groundwater elevations are also consistent with historical trends and data.

A routine visual inspection of the piezometers was conducted, and all located piezometers were found in good condition as follows:

- The outer protective casings remain locked (if applicable);
- The inner casings and plugs remain intact and in place; and
- The outer and inner casings remain in good condition and in their intended positions.

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Piezometer Locations
Figure 2 – Summary of April 2023 Piezometer Gauging Results

c: M. Rowland, NYCDPR

K. Zias, NYCDPR

K. McCarty, GEI

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

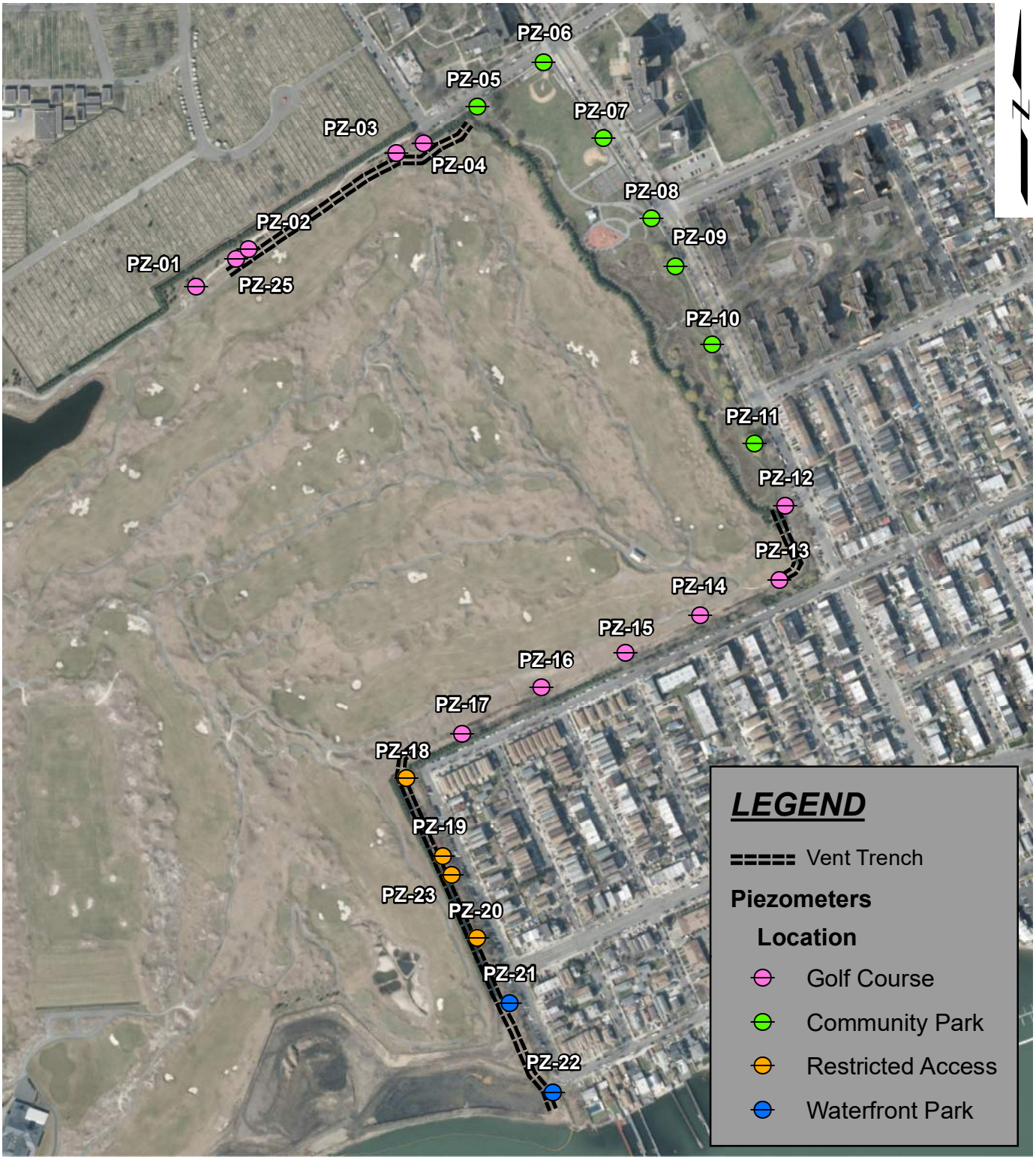

SOURCE:
1. ESRI IMAGERY BASE MAP

0 360 720
SCALE: 1 " = 500 '

Ferry Point Park Bronx, New York Monthly Piezometer Monitoring	GEI Consultants	PIEZOMETER LOCATIONS
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	Fig. 1

\\geiconsultants.com\Data\Data_Storage\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\GIS Shapefiles\Figure 1 - Piezometer Locations with Vent Trench.mxd

Table 2
Summary of April 24, 2023 Piezometer Gauging Results
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Piezometer ID	Vent Trench Bottom Elevation (feet)	Top of Casing Elevation (feet)	Measured Depth to Water (ft bToC)	Groundwater Elevation (feet)
PZ-1	3.25	24.63	20.09	4.54
PZ-2	1.25	23.49	19.92	3.57
PZ-3	1.20	21.89	18.71	3.18
PZ-4	1.01	21.1	16.53	4.57
PZ-5	0.89	15.72	11.31	4.41
PZ-6	0.61	16.73	9.78	6.95
PZ-7	1.20	16.99	11.24	5.75
PZ-8	3.08	17.87	9.12	8.75
PZ-9	2.82	18.89	9.81	9.08
PZ-10	3.82	18.59	9.98	8.61
PZ-11	2.70	17.68	--	--
PZ-12	1.96	16.96	10.21	6.75
PZ-13	2.52	9.67	2.60	7.07
PZ-14	NA	10.82	3.41	7.41
PZ-15	NA	9.26	3.11	6.15
PZ-16	NA	9.8	2.55	7.25
PZ-17	NA	9.38	2.65	6.73
PZ-18	3.70	14.42	7.59	6.83
PZ-19	1.60	16.29	9.26	7.03
PZ-20	2.20	11.68	7.12	4.56
PZ-21	1.51	14.46	11.96	2.50
PZ-22	-1.60	13.58	12.45	1.13
PZ-23	1.40	16.46	12.92	3.54
PZ-25	1.35	23.54	19.87	3.67

Note:
ft bToC - feet below top of casing
NA = PZ's not adjacent to the vent trench
PZ-1 through PZ-22 installed with 5' screen
PZ-23 and PZ-25 installed with 10' screen
Could not locate PZ-11 (within Community Park)

May 23, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: May 2023 Piezometer Monitoring Event
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the piezometer monitoring event conducted in May 2023 at the Ferry Point Park Golf Course. Monthly piezometer monitoring is conducted in compliance with the October 2013 *Post Construction Custodial Care Plan* and the October 2013 *Landfill Gas Management Plan.*

On May 22, 2023, GEI mobilized to Site to conduct the monthly piezometer monitoring. A summary of the weather conditions during the monitoring event is included in Table 1 below:

Table 1 - Summary of May 22, 2023, Weather Conditions		
Date: 5/22/2023	**On site:** 08:00	**Off site:** 14:00
Weather Conditions	Partly Sunny	Partly Sunny
Temperature	62°F	67°F
Relative Humidity	73%	64%
Wind	N 3 mph	NE 4 mph
Barometric Pressure	30.11 in	30.15 in
Precipitation	0.0 in	0.0 in

GEI gathered water level readings from the 24 piezometers utilizing an electronic water level meter between the hours of 8:00 am and 2:00 pm. On May 22, 2023,

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high tide was at 8:51 am and low tide was at 2:31 pm. Tides were going out during the majority of the data collection window.

During this piezometer monitoring event, PZ-11, which was previously unable to be located due to vegetation, was found and gauged along with the other piezometers located in the Community Park.

Table 2 attached summarizes the May 2023 monitoring event, including the groundwater elevations collected from the accessible piezometers.

Conclusions

The May 2023 piezometer monitoring event results indicate that all piezometers are functional and there is sufficient groundwater contouring to prevent the migration of methane off Site. The collected groundwater elevations are also consistent with historical trends and data.

A routine visual inspection of the piezometers was conducted, and the piezometers were found in good condition as follows:

- The outer protective casings remain locked.
- The inner casings and plugs remain intact and in place; and
- The outer and inner casings remain in good condition and in their intended positions.

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Piezometer Locations
Figure 2 – Summary of May 2023 Piezometer Gauging Results

c: M. Rowland, NYCDPR

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

K. Zias, NYCDPR

K. McCarty, GEI

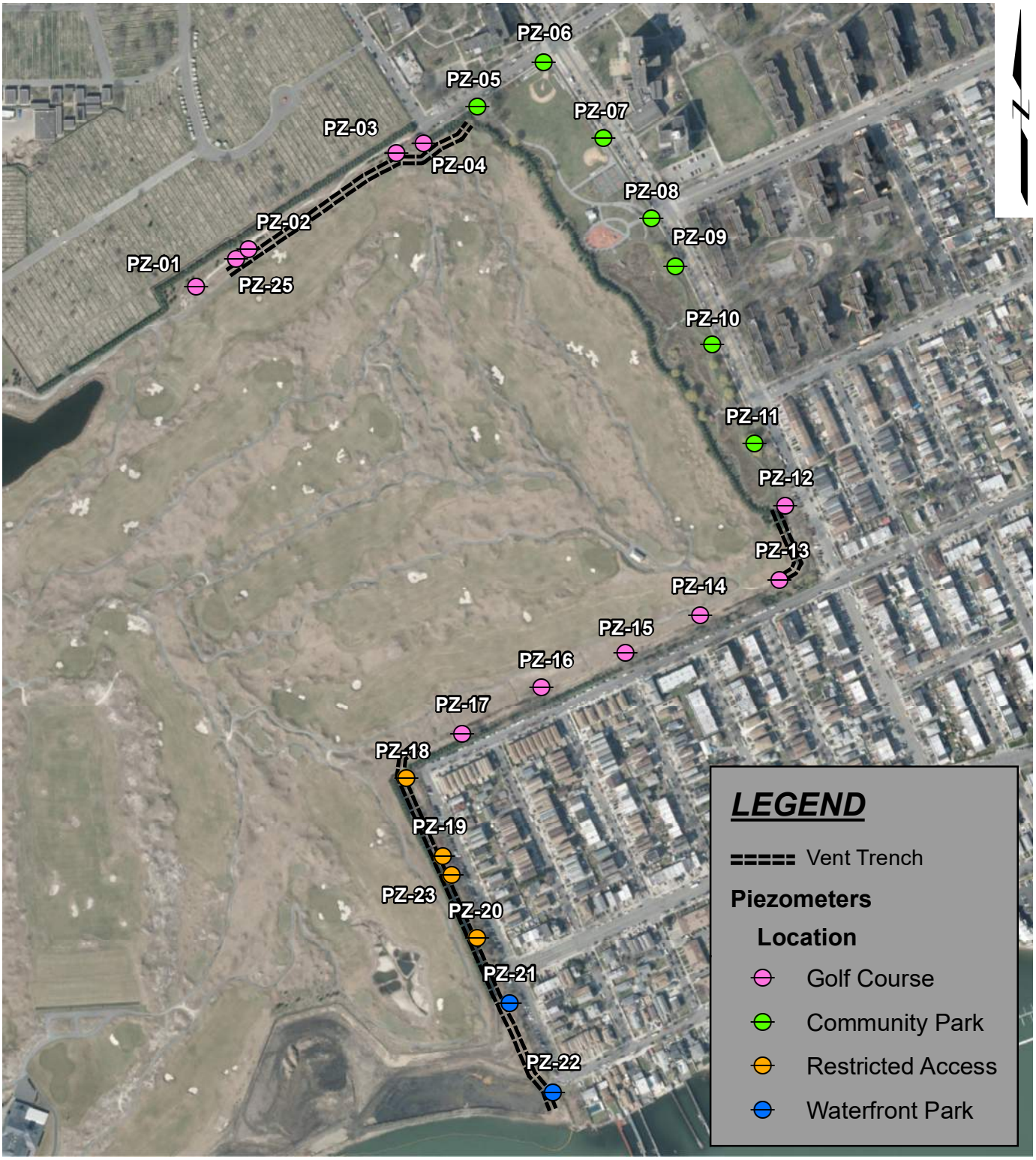

SOURCE:
1. ESRI IMAGERY BASE MAP

0 360 720
SCALE: 1 " = 500 '

Ferry Point Park Bronx, New York Monthly Piezometer Monitoring	GEI Consultants	PIEZOMETER LOCATIONS
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	Fig. 1

\\geiconsultants.com\Data\Data_Storage\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\GIS Shapefiles\Figure 1 - Piezometer Locations with Vent Trench.mxd

Table 2
Summary of May 22, 2023 Piezometer Gauging Results
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Piezometer ID	Vent Trench Bottom Elevation (feet)	Top of Casing Elevation (feet)	Measured Depth to Water (ft bToC)	Groundwater Elevation (feet)
PZ-1	3.25	24.63	20.78	3.85
PZ-2	1.25	23.49	19.55	3.94
PZ-3	1.20	21.89	18.41	3.48
PZ-4	1.01	21.1	16.19	4.91
PZ-5	0.89	15.72	11.08	4.64
PZ-6	0.61	16.73	10.17	6.56
PZ-7	1.20	16.99	11.22	5.77
PZ-8	3.08	17.87	11.15	6.72
PZ-9	2.82	18.89	9.74	9.15
PZ-10	3.82	18.59	9.87	8.72
PZ-11	2.70	17.68	7.69	9.99
PZ-12	1.96	16.96	10.01	6.95
PZ-13	2.52	9.67	2.71	6.96
PZ-14	NA	10.82	3.34	7.48
PZ-15	NA	9.26	3.40	5.86
PZ-16	NA	9.8	2.54	7.26
PZ-17	NA	9.38	2.81	6.57
PZ-18	3.70	14.42	7.50	6.92
PZ-19	1.60	16.29	9.81	6.48
PZ-20	2.20	11.68	7.21	4.47
PZ-21	1.51	14.46	12.03	2.43
PZ-22	-1.60	13.58	10.60	2.98
PZ-23	1.40	16.46	13.21	3.25
PZ-25	1.35	23.54	19.55	3.99

Note:
ft bToC - feet below top of casing
NA = PZ's not adjacent to the vent trench
PZ-1 through PZ-22 installed with 5' screen
PZ-23 and PZ-25 installed with 10' screen

July 11, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: June 2023 Piezometer Monitoring Event
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the piezometer monitoring event conducted in June 2023 at the Ferry Point Park Golf Course. Monthly piezometer monitoring is conducted in compliance with the October 2013 *Post Construction Custodial Care Plan* and the October 2013 *Landfill Gas Management Plan.*

On June 27, 2023, GEI mobilized to Site to conduct the monthly piezometer monitoring. A summary of the weather conditions during the monitoring event is included in Table 1 below:

Table 1 - Summary of June 27, 2023, Weather Conditions		
Date: 6/27/2023	**On site:** 07:00	**Off site:** 15:00
Weather Conditions	Fog	Partly Sunny
Temperature	66°F	78°F
Relative Humidity	79%	83%
Wind	W 1 mph	N 2 mph
Barometric Pressure	29.8 in	29.7 in
Precipitation	0.0 in	0.0 in

GEI gathered water level readings from the 18 of the 24 piezometers utilizing an electronic water level meter between the hours of 7:00 am and 3:00 pm. On June

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27, 2023, high tide was at 6:14 am and low tide was at 12:31 pm. Tides were going out during the majority of the data collection window.

During this piezometer monitoring event, PZ-18, PZ-19, PZ-20 and PZ-23, located in a gated area along the southeastern boundary of the golf course, were unable to be gauged due to overgrown vegetation limiting access in the area. Additionally, PZ-21 and PZ-23, located in a gated area within the Waterfront Park, were also unable to be accessed due to a locked entrance.

Table 2 attached summarizes the June 2023 monitoring event, including the groundwater elevations collected from the accessible piezometers.

Conclusions

The June 2023 piezometer monitoring event results indicate that the 18 accessible piezometers are functional and there is sufficient groundwater contouring to prevent the migration of methane off Site. The collected groundwater elevations are also consistent with historical trends and data.

A routine visual inspection of the piezometers was conducted, and the accessible piezometers were found in good condition as follows:

- The outer protective casings remain locked.
- The inner casings and plugs remain intact and in place; and
- The outer and inner casings remain in good condition and in their intended positions.

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – Piezometer Locations
Figure 2 – Summary of June 2023 Piezometer Gauging Results

c: M. Rowland, NYCDPR

K. Zias, NYCDPR

K. McCarty, GEI

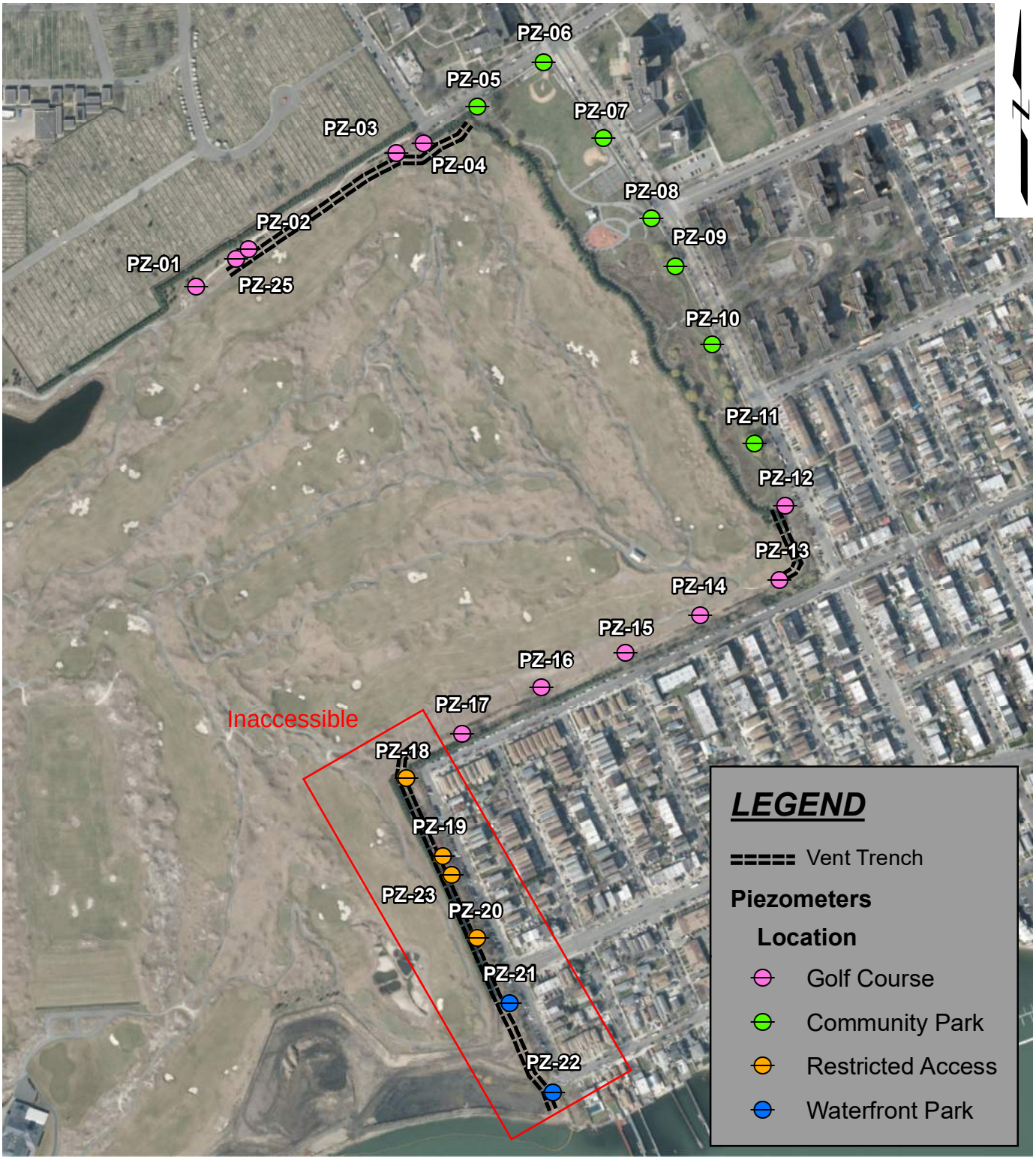

SOURCE:
1. ESRI IMAGERY BASE MAP

0 360 720
SCALE: 1 " = 500 '

Ferry Point Park Bronx, New York Monthly Piezometer Monitoring	GEI Consultants	PIEZOMETER LOCATIONS
New York City Department of Parks & Recreation (NYCDPR) Queens, NY	Project: 2204594	Fig. 1

\\geiconsultants.com\Data\Data_Storage\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\GIS Shapefiles\Figure 1 - Piezometer Locations with Vent Trench.mxd

Table 2
Summary of June 27, 2023 Piezometer Gauging Results
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013

Piezometer ID	Vent Trench Bottom Elevation (feet)	Top of Casing Elevation (feet)	Measured Depth to Water (ft bToC)	Groundwater Elevation (feet)
PZ-1	3.25	24.63	21.03	3.60
PZ-2	1.25	23.49	19.86	3.63
PZ-3	1.20	21.89	18.71	3.18
PZ-4	1.01	21.1	16.53	4.57
PZ-5	0.89	15.72	11.37	4.35
PZ-6	0.61	16.73	10.41	6.32
PZ-7	1.20	16.99	10.52	6.47
PZ-8	3.08	17.87	11.02	6.85
PZ-9	2.82	18.89	10.34	8.55
PZ-10	3.82	18.59	10.54	8.05
PZ-11	2.70	17.68	8.13	9.55
PZ-12	1.96	16.96	10.64	6.32
PZ-13	2.52	9.67	3.62	6.05
PZ-14	NA	10.82	3.85	6.97
PZ-15	NA	9.26	4.11	5.15
PZ-16	NA	9.8	2.49	7.31
PZ-17	NA	9.38	2.91	6.47
PZ-18	3.70	14.42	--	Inaccessible
PZ-19	1.60	16.29	--	
PZ-20	2.20	11.68	--	
PZ-21	1.51	14.46	--	
PZ-22	-1.60	13.58	--	
PZ-23	1.40	16.46	--	
PZ-25	1.35	23.54	19.83	3.71

Note:
ft bToC - feet below top of casing
NA = PZ's not adjacent to the vent trench
PZ-1 through PZ-22 installed with 5' screen
PZ-23 and PZ-25 installed with 10' screen
PZ-18 through PZ-23 inaccessible during June monitoring event

Appendix E

Settlement Plate Monitoring Report

NYSDEC Settlement Plate Monitoring Termination Letter

REV June 5, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: 2023 Annual Settlement Plate Monitoring Report
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the annual settlement plate monitoring event conducted on March 29, 2023, at the Ferry Point Park Golf Course.

Long-term settlement monitoring initially began following completion of the golf course, which included the importation and placement of significant volumes of fill material in various thicknesses around the site, as well as construction of a large Clubhouse structure. Monitoring is currently conducted on an annual basis to survey and report elevation data, and to determine if significant changes (rise or fall) have occurred at the any of the nine (9) plate locations since the last monitoring event.

Monitoring/surveying was performed in compliance with Section 3.3.2.4 of the October 2013 *Post Construction Custodial Care Plan, DEC Permit No. 2-6006-00014/000013,* and the New York State Department of Environmental Conservation (NYSDEC) letter, dated January 7, 2020, providing approval to modify the settlement plate monitoring frequency from quarterly to annually.

The settlement plate surveying was performed by GEI's subcontractor, Contractors Line and Grade of Elmsford, NY. Enclosed is a copy of the latest report, signed and sealed by a licensed surveyor, providing elevation data since October 2013. A

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summary of the last few years since commencing annual monitoring is provided below.

Date Surveyed	Settlement (feet)								
	Plate 1	Plate 2	Plate 3	Plate 4	Plate 5	Plate 6	Plate 7	Plate 8	Plate 9
3/5/2020	-0.04	-0.01	0.00	0.01	-0.02	-0.11	-0.02	0.01	-0.04
4/8/2021	0.02	0.01	0.02	-0.02	0.02	0.12	-0.01	-0.01	0.01
3/17/2022	-0.08	-0.03	-0.01	-0.01	0.00	-0.03	-0.02	-0.01	0.00
3/29/2023	0.04	0.00	0.02	-0.02	0.01	-0.01	-0.01	0.02	-0.01
Cumulative Settlement (2020-2023)	-0.02	-0.02	0.03	-0.04	0.03	-0.08	-0.04	0.00	0.00
Cumulative Settlement Since 10/3/2013	-0.06	-0.06	0.12	-0.06	0.09	-0.11	-0.30	0.01	0.00

Based on review of recent data, GEI notes the following:

- No significant changes in elevation have been observed since the last reporting period or since transitioning to annual monitoring in 2020.
- Cumulative settlement since 2013 is negligible and ranges from 0.00 ft to -0.30 ft across all nine (9) plates.
- Fluctuations in elevation measurements are likely due to human error such as changes between surveying personnel and accuracy of the equipment (generally +/- 0.01 ft).
- Any future minor fluctuations (rise or fall) in plate elevations, indicating potential movement of the overall landfill, do not have an impact on the current site operations.

Based on the March 2023 results and assessment of historic settlement data, GEI recommends to NYCDPR that a request be made to NYSDEC to terminate all future settlement plate monitoring, as long as the former landfill continues to be utilized and maintained in its current condition as a golf course.

If you have any questions, please feel free to contact me at (347) 514–3861.

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
January 7, 2020, letter addressed to NYCDPR from NYSDEC re: Settlement Plate Monitoring – Request to Change the Monitoring Frequency from Quarterly to Annual
Settlement Plate Monitoring Report (Contractors Line and Grade LLC)
Ferry Point Golf Course Settlement Plate Locations (KS Engineers, P.C.)

c: M. Rowland, NYCDPR

K. Zias, NYCDPR

K. McCarty, GEI

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4996 I F: (718) 482-6391
www.dec.ny.gov

January 7, 2020

Marty Rowland, Ph.D., P.E.
Senior Project Manager for Environmental Remediation
New York City Department of Parks and Recreation
Central Project Division, Environmental Unit
Olmstead Center
Flushing Meadows
Corona Park
Flushing, NY 11368

Re: Ferry Point Park Golf Course
Permit No. 2-6006-00014/00013
Settlement Plate Monitoring
Request to Change the Monitoring Frequency from Quarterly to Annual

Dear Mr. Rowland,

New York State Department of Environmental Conservation (Department) staff have reviewed your December 19, 2019 request to modify the Ferry Point Golf Course settlement plate monitoring frequency from quarterly to annual. This request is based on the negligible changes in the settlement plate data from the quarterly reports for the last four years.

After careful review of the settlement plate data from the quarterly reports for the last four years and specific circumstances and history of this site, the Department hereby grants this request to modify the Ferry Point Golf Course settlement plate monitoring frequency from quarterly to annual starting immediately.

If you have any questions you may contact me at 718-482-4996.

Sincerely,

Kenneth B. Brezner

Kenneth B. Brezner, P.E.
Regional Material Management Engineer

ec: J. O'Connell/W. Frank, R2 DMM
K. Zias, NYCDPR
S. Laura, Woodard and Curran

FPP_Settlement_Monitoring_Change_Frequecy_Quaterly_to_Annual.2020-01-07.Letter.docx

FERRY POINT PARK

SETTLEMENT PLATE MONITORING

SETTLEMENT PLATE - 1

DATE	CUMULATIVE TIME (days)	RISER ELEVATION (feet)	SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (inches)
10/30/13		32.96	0.00	0.00	0.00
11/13/13	14	32.95	-0.01	-0.01	-0.12
11/26/13	27	32.96	0.01	0.00	0.00
12/09/13	40	32.95	-0.01	-0.01	-0.12
12/23/13	54	32.96	0.01	0.00	0.00
01/08/14	70	32.94	-0.02	-0.02	-0.24
01/27/14	89	32.96	0.02	0.00	0.00
02/19/14	112	32.95	-0.01	-0.01	-0.12
03/06/14	127	32.95	0.00	-0.01	-0.12
03/19/14	140	32.95	0.00	-0.01	-0.12
04/03/14	156	32.95	0.00	-0.01	-0.12
04/21/14	173	32.96	0.01	0.00	0.00
05/05/14	187	32.96	0.00	0.00	0.00
05/30/14	212	32.95	-0.01	-0.01	-0.12
06/13/14	226	32.96	0.01	0.00	0.00
06/23/14	236	32.96	0.00	0.00	0.00
07/09/14	252	32.96	0.00	0.00	0.00
07/23/14	266	32.96	0.00	0.00	0.00
08/04/14	278	32.96	0.00	0.00	0.00
08/21/14	295	32.96	0.00	0.00	0.00
09/03/14	308	32.96	0.00	0.00	0.00
09/23/14	328	32.96	0.00	0.00	0.00
10/06/14	341	32.96	0.00	0.00	0.00
10/21/14	356	32.96	0.00	0.00	0.00
11/04/14	370	32.96	0.00	0.00	0.00
11/18/14	384	32.95	-0.01	-0.01	-0.12
12/05/14	401	32.95	0.00	-0.01	-0.12
12/19/14	415	32.96	0.01	0.00	0.00
01/09/15	436	32.96	0.00	0.00	0.00
01/23/15	450	32.95	-0.01	-0.01	-0.12
02/12/15	470	32.96	0.01	0.00	0.00
02/27/15	485	32.96	0.00	0.00	0.00
03/13/15	499	32.95	-0.01	-0.01	-0.12
03/27/15	513	32.95	0.00	-0.01	-0.12
04/10/15	527	32.96	0.01	0.00	0.00
04/24/15	541	32.96	0.00	0.00	0.00
06/19/15	597	32.96	0.00	0.00	0.00
07/07/15	615	32.96	0.00	0.00	0.00
07/17/15	625	32.96	0.00	0.00	0.00
07/31/15	639	32.96	0.00	0.00	0.00
08/14/15	653	32.96	0.00	0.00	0.00
08/28/15	667	32.96	0.00	0.00	0.00
09/11/15	681	32.96	0.00	0.00	0.00
09/25/15	695	32.96	0.00	0.00	0.00
10/09/15	709	32.96	0.00	0.00	0.00
10/23/15	723	32.95	-0.01	-0.01	-0.12
11/06/15	737	32.95	0.00	-0.01	-0.12
11/20/15	751	32.95	0.00	-0.01	-0.12
12/04/15	765	32.95	0.00	-0.01	-0.12
12/18/15	779	32.95	0.00	-0.01	-0.12
01/07/16	799	32.95	0.00	-0.01	-0.12
01/22/16	814	32.95	0.00	-0.01	-0.12
02/08/16	831	32.94	-0.01	-0.02	-0.24
03/04/16	856	32.95	0.01	-0.01	-0.12
03/18/16	870	32.95	0.00	-0.01	-0.12
04/01/16	884	32.94	-0.01	-0.02	-0.24
04/15/16	898	32.95	0.01	-0.01	-0.12
04/29/16	912	32.95	0.00	-0.01	-0.12
05/13/16	926	32.95	0.00	-0.01	-0.12
05/27/16	940	32.95	0.00	-0.01	-0.12
09/08/16	1044	32.95	0.00	-0.01	-0.12
01/12/17	1170	32.94	-0.01	-0.02	-0.24
03/23/17	1240	32.94	0.00	-0.02	-0.24
06/17/17	1326	32.95	0.01	-0.01	-0.12
09/19/17	1420	32.97	0.02	0.01	0.12
03/12/18	1594	32.94	-0.03	-0.02	-0.24
03/28/18	1610	32.94	0.00	-0.01	-0.12
06/15/18	1689	32.94	0.00	-0.01	-0.12
09/19/18	1785	32.94	0.00	-0.01	-0.12
01/10/19	1898	32.92	-0.02	-0.04	-0.48
03/19/19	1966	32.94	0.02	-0.01	-0.12
07/15/19	2084	32.94	0.00	-0.01	-0.12
11/19/19	2211	32.96	0.00	0.02	0.24
03/05/20	2318	32.92	-0.04	-0.04	-0.48
04/08/21	2717	32.94	0.02	-0.02	-0.24
03/17/22	3060	32.86	-0.08	-0.10	-1.20
03/29/23	3423	32.90	0.04	-0.06	-0.72

STATE OF NEW YORK
STEVEN J WILLARD
050054
LICENSED LAND SURVEYOR

FERRY POINT PARK

SETTLEMENT PLATE MONITORING

SETTLEMENT PLATE - 2

DATE	CUMULATIVE TIME (days)	RISER ELEVATION (feet)	SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (inches)
10/30/13		46.27	0.00	0.00	0.00
11/13/13	14	46.27	0.00	0.00	0.00
11/26/13	27	46.26	-0.01	-0.01	-0.12
12/09/13	40	46.26	0.00	-0.01	-0.12
12/23/13	54	46.27	0.01	0.00	0.00
01/08/14	70	46.27	0.00	0.00	0.00
01/27/14	89	46.27	0.00	0.00	0.00
02/19/14	112	46.27	0.00	0.00	0.00
03/06/14	127	46.26	-0.01	-0.01	-0.12
03/19/14	140	46.27	0.01	0.00	0.00
04/03/14	156	46.27	0.00	0.00	0.00
04/21/14	173	46.26	-0.01	-0.01	-0.12
05/05/14	187	46.27	0.01	0.00	0.00
05/30/14	212	46.26	-0.01	-0.01	-0.12
06/13/14	226	46.25	-0.01	-0.02	-0.24
06/23/14	236	46.25	0.00	-0.02	-0.24
07/09/14	252	46.26	0.01	-0.01	-0.12
07/23/14	266	46.25	-0.01	-0.02	-0.24
08/04/14	278	46.25	0.00	-0.02	-0.24
08/21/14	295	46.24	-0.01	-0.03	-0.36
09/03/14	308	46.25	0.01	-0.02	-0.24
09/23/14	328	46.25	0.00	-0.02	-0.24
10/06/14	341	46.25	0.00	-0.02	-0.24
10/21/14	356	46.25	0.00	-0.02	-0.24
11/04/14	370	46.25	0.00	-0.02	-0.24
11/18/14	384	46.26	0.01	-0.01	-0.12
12/05/14	401	46.26	0.00	-0.01	-0.12
12/19/14	415	46.25	-0.01	-0.02	-0.24
01/09/15	436	46.26	0.01	-0.01	-0.12
01/23/15	450	46.26	0.00	-0.01	-0.12
02/12/15	470	46.25	-0.01	-0.02	-0.24
02/27/15	485	46.25	0.00	-0.02	-0.24
03/13/15	499	46.25	0.00	-0.02	-0.24
03/27/15	513	46.25	0.00	-0.02	-0.24
04/10/15	527	46.26	0.01	-0.01	-0.12
04/24/15	541	46.25	-0.01	-0.02	-0.24
06/19/15	597	46.24	-0.01	-0.03	-0.36
07/07/15	615	46.24	0.00	-0.03	-0.36
07/17/15	625	46.25	0.01	-0.02	-0.24
07/31/15	639	46.25	0.00	-0.02	-0.24
08/14/15	653	46.25	0.00	-0.02	-0.24
08/28/15	667	46.25	0.00	-0.02	-0.24
09/11/15	681	46.25	0.00	-0.02	-0.24
09/25/15	695	46.25	0.00	-0.02	-0.24
10/09/15	709	46.24	-0.01	-0.03	-0.36
10/23/15	723	46.24	0.00	-0.03	-0.36
11/06/15	737	46.24	0.00	-0.03	-0.36
11/20/15	751	46.24	0.00	-0.03	-0.36
12/04/15	765	46.24	0.00	-0.03	-0.36
12/18/15	779	46.24	0.00	-0.03	-0.36
01/07/16	799	46.24	0.00	-0.03	-0.36
01/22/16	814	46.25	0.01	-0.02	-0.24
02/08/16	831	46.24	-0.01	-0.03	-0.36
03/04/16	856	46.24	0.00	-0.03	-0.36
03/18/16	870	46.24	0.00	-0.03	-0.36
04/01/16	884	46.24	0.00	-0.03	-0.36
04/15/16	898	46.24	0.00	-0.03	-0.36
04/29/16	912	46.24	0.00	-0.03	-0.36
05/13/16	926	46.24	0.00	-0.03	-0.36
05/27/16	940	46.24	0.00	-0.03	-0.36
09/08/16	1044	46.24	0.00	-0.03	-0.36
01/12/17	1170	46.24	0.00	-0.03	-0.36
03/23/17	1240	46.24	0.00	-0.03	-0.36
06/17/17	1326	46.24	0.00	-0.03	-0.36
09/19/17	1420	46.23	-0.01	-0.04	-0.48
03/12/18	1594	46.24	0.01	-0.03	-0.36
03/28/18	1610	46.24	0.00	-0.03	-0.36
06/15/18	1689	46.25	0.01	-0.02	-0.24
09/19/18	1785	46.22	-0.03	-0.05	-0.60
01/10/19	1898	46.23	0.01	-0.04	-0.48
03/19/19	1966	46.23	0.00	-0.04	-0.48
07/15/19	2084	46.23	0.00	-0.04	-0.48
11/19/19	2211	46.24	-0.03	-0.03	-0.36
03/05/20	2318	46.23	-0.01	-0.04	-0.48
04/08/21	2717	46.24	0.01	-0.03	-0.36
03/17/22	3060	46.21	-0.03	-0.06	-0.72
03/29/23	3423	46.21	0.00	-0.06	-0.72

STATE OF NEW YORK
STEVEN J. WILLARD
050054
LICENSED LAND SURVEYOR

FERRY POINT PARK

SETTLEMENT PLATE MONITORING

SETTLEMENT PLATE - 3

DATE	CUMULATIVE TIME (days)	RISER ELEVATION (feet)	SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (inches)
10/30/13		29.65	0.00	0.00	0.00
11/13/13	14	29.65	0.00	0.00	0.00
11/26/13	27	29.65	0.00	0.00	0.00
12/09/13	40	29.66	0.01	0.01	0.12
12/23/13	54	29.65	-0.01	0.00	0.00
01/08/14	70	29.67	0.02	0.02	0.24
01/27/14	89	29.66	-0.01	0.01	0.12
02/19/14	112	29.66	0.00	0.01	0.12
03/06/14	127	29.67	0.01	0.02	0.24
03/19/14	140	29.66	-0.01	0.01	0.12
04/03/14	156	29.66	0.00	0.01	0.12
04/21/14	173	29.67	0.01	0.02	0.24
05/05/14	187	29.67	0.00	0.02	0.24
05/30/14	212	29.66	-0.01	0.01	0.12
06/13/14	226	29.67	0.01	0.02	0.24
06/23/14	236	29.67	0.00	0.02	0.24
07/09/14	252	29.66	-0.01	0.01	0.12
07/23/14	266	29.67	0.01	0.02	0.24
08/04/14	278	29.67	0.00	0.02	0.24
08/21/14	295	29.67	0.00	0.02	0.24
09/03/14	308	29.67	0.00	0.02	0.24
09/23/14	328	29.67	0.00	0.02	0.24
10/06/14	341	29.67	0.00	0.02	0.24
10/21/14	356	29.68	0.01	0.03	0.36
11/04/14	370	29.68	0.00	0.03	0.36
11/18/14	384	29.67	-0.01	0.02	0.24
12/05/14	401	29.68	0.01	0.03	0.36
12/19/14	415	29.67	-0.01	0.02	0.24
01/09/15	436	29.68	0.01	0.03	0.36
01/23/15	450	29.67	-0.01	0.02	0.24
02/12/15	470	29.67	0.00	0.02	0.24
02/27/15	485	29.67	0.00	0.02	0.24
03/13/15	499	29.67	0.00	0.02	0.24
03/27/15	513	29.68	0.01	0.03	0.36
04/10/15	527	29.68	0.00	0.03	0.36
04/24/15	541	29.68	0.00	0.03	0.36
06/19/15	597	29.68	0.00	0.03	0.36
07/07/15	615	29.68	0.00	0.03	0.36
07/17/15	625	29.68	0.00	0.03	0.36
07/31/15	639	29.68	0.00	0.03	0.36
08/14/15	653	29.68	0.00	0.03	0.36
08/28/15	667	29.68	0.00	0.03	0.36
09/11/15	681	29.68	0.00	0.03	0.36
09/25/15	695	29.68	0.00	0.03	0.36
10/09/15	709	29.69	0.01	0.04	0.48
10/23/15	723	29.70	0.01	0.05	0.60
11/06/15	737	29.69	-0.01	0.04	0.48
11/20/15	751	29.69	0.00	0.04	0.48
12/04/15	765	29.70	0.01	0.05	0.60
12/18/15	779	29.70	0.00	0.05	0.60
01/07/16	799	29.70	0.00	0.05	0.60
01/22/16	814	29.70	0.00	0.05	0.60
02/08/16	831	29.70	0.00	0.05	0.60
03/04/16	856	29.69	-0.01	0.04	0.48
03/18/16	870	29.69	0.00	0.04	0.48
04/01/16	884	29.70	0.01	0.05	0.60
04/15/16	898	29.70	0.00	0.05	0.60
04/29/16	912	29.71	0.01	0.06	0.72
05/13/16	926	29.70	-0.01	0.05	0.60
05/27/16	940	29.70	0.00	0.05	0.60
09/08/16	1044	29.70	0.00	0.05	0.60
01/12/17	1170	29.71	0.01	0.06	[illegible]
03/23/17	1240	29.70	-0.01	0.05	[illegible]
06/17/17	1326	29.71	0.01	0.06	0.72
09/20/17	1420	29.72	0.01	0.07	0.84
03/12/18	1594	29.72	0.00	0.07	0.84
03/28/18	1610	29.72	0.00	0.07	0.84
06/15/18	1689	29.72	0.00	0.07	0.84
09/19/18	1785	29.72	0.00	0.07	0.84
01/10/19	1898	29.73	0.01	0.08	0.96
03/19/19	1966	29.73	0.00	0.08	0.96
07/15/19	2084	29.72	-0.01	0.07	0.84
11/19/19	2211	29.74	0.02	0.09	1.08
03/05/20	2318	29.74	0.00	0.09	1.08
04/08/21	2717	29.76	0.02	0.11	1.32
03/17/22	3060	29.75	-0.01	0.10	1.20
03/29/23	3437	29.77	0.02	0.12	1.44

STATE OF NEW YORK
STEVEN J. WILLARD
050054
LICENSED LAND SURVEYOR

FERRY POINT PARK

SETTLEMENT PLATE MONITORING

SETTLEMENT PLATE - 4

DATE	CUMULATIVE TIME (days)	RISER ELEVATION (feet)	SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (inches)
10/30/13		47.56	0.00	0.00	0.00
11/13/13	14	47.56	0.00	0.00	0.00
11/26/13	27	47.56	0.00	0.00	0.00
12/09/13	40	47.56	0.00	0.00	0.00
12/23/13	54	47.56	0.00	0.00	0.00
01/08/14	70	47.55	-0.01	-0.01	-0.12
01/27/14	89	47.55	0.00	-0.01	-0.12
02/19/14	112	47.55	0.00	-0.01	-0.12
03/06/14	127	47.55	0.00	-0.01	-0.12
03/19/14	140	47.55	0.00	-0.01	-0.12
04/03/14	156	47.56	0.01	0.00	0.00
04/21/14	173	47.55	-0.01	-0.01	-0.12
05/05/14	187	47.55	0.00	-0.01	-0.12
05/30/14	212	47.55	0.00	-0.01	-0.12
06/13/14	226	47.55	0.00	-0.01	-0.12
06/23/14	236	47.55	0.00	-0.01	-0.12
07/09/14	252	47.55	0.00	-0.01	-0.12
07/23/14	266	47.53	-0.02	-0.03	-0.36
08/04/14	278	47.53	0.00	-0.03	-0.36
08/21/14	295	47.54	0.01	-0.02	-0.24
09/03/14	308	47.54	0.00	-0.02	-0.24
09/23/14	328	47.53	-0.01	-0.03	-0.36
10/06/14	341	47.54	0.01	-0.02	-0.24
10/21/14	356	47.54	0.00	-0.02	-0.24
11/04/14	370	47.54	0.00	-0.02	-0.24
11/18/14	384	47.54	0.00	-0.02	-0.24
12/05/14	401	47.53	-0.01	-0.03	-0.36
12/19/14	415	47.53	0.00	-0.03	-0.36
01/09/15	436	47.54	0.01	-0.02	-0.24
01/23/15	450	47.54	0.00	-0.02	-0.24
02/12/15	470	47.53	-0.01	-0.03	-0.36
02/27/15	485	47.54	0.01	-0.02	-0.24
03/13/15	499	47.54	0.00	-0.02	-0.24
03/27/15	513	47.55	0.01	-0.01	-0.12
04/10/15	527	47.54	-0.01	-0.02	-0.24
04/24/15	541	47.54	0.00	-0.02	-0.24
06/19/15	597	47.53	-0.01	-0.03	-0.36
07/07/15	615	47.53	0.00	-0.03	-0.36
07/17/15	625	47.54	0.01	-0.02	-0.24
07/31/15	639	47.52	-0.02	-0.04	-0.48
08/14/15	653	47.52	0.00	-0.04	-0.48
08/28/15	667	47.52	0.00	-0.04	-0.48
09/11/15	681	47.52	0.00	-0.04	-0.48
09/25/15	695	47.52	0.00	-0.04	-0.48
10/09/15	709	47.52	0.00	-0.04	-0.48
10/23/15	723	47.51	-0.01	-0.05	-0.60
11/06/15	737	47.53	0.02	-0.03	-0.36
11/20/15	751	47.55	0.02	-0.01	-0.12
12/04/15	765	47.55	0.00	-0.01	-0.12
12/18/15	779	47.55	0.00	-0.01	-0.12
01/07/16	799	47.55	0.00	-0.01	-0.12
01/22/16	814	47.54	-0.01	-0.02	-0.24
02/08/16	831	47.56	0.02	0.00	0.00
03/04/16	856	47.57	0.01	0.01	0.12
03/18/16	870	47.56	0.00	0.00	0.00
04/01/16	884	47.56	0.00	0.00	0.00
04/15/16	898	47.57	0.01	0.01	0.12
04/29/16	912	47.56	-0.01	0.00	0.00
05/13/16	926	47.56	0.00	0.00	0.00
05/27/16	940	47.57	0.01	0.01	0.12
09/08/16	1044	47.56	-0.01	0.00	0.00
01/12/17	1170	47.58	0.01	0.02	0.24
03/23/17	1240	47.58	0.00	0.02	0.24
06/17/17	1326	47.56	-0.02	0.00	0.00
09/19/17	1420	47.54	-0.02	-0.02	-0.24
03/12/18	1594	47.54	0.00	-0.02	-0.24
03/28/18	1610	47.54	0.00	-0.02	-0.24
06/15/18	1689	47.52	-0.02	-0.04	-0.48
09/19/18	1785	47.51	-0.01	-0.05	-0.60
01/10/19	1898	47.51	0.00	-0.05	-0.60
03/19/19	1966	47.53	0.02	-0.03	-0.36
07/15/19	2084	47.52	-0.01	-0.04	-0.48
11/19/19	2211	47.54	0.02	-0.02	-0.24
03/05/20	2318	47.55	0.01	-0.01	-0.12
04/08/21	2717	47.53	-0.02	-0.03	-0.36
03/17/22	3060	47.52	-0.01	-0.04	-0.48
03/29/23	3437	47.50	-0.02	-0.06	-0.72

STATE OF NEW YORK
STEVEN J WILLARD
050054
LICENSED LAND SURVEYOR

FERRY POINT PARK

SETTLEMENT PLATE MONITORING

SETTLEMENT PLATE - 5

DATE	CUMULATIVE TIME (days)	RISER ELEVATION (feet)	SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (inches)
10/30/13		34.78	0.00	0.00	0.00
11/13/13	14	34.78	0.00	0.00	0.00
11/26/13	27	34.77	-0.01	-0.01	-0.12
12/09/13	40	34.77	0.00	-0.01	-0.12
12/23/13	54	34.78	0.01	0.00	0.00
01/08/14	70	34.77	-0.01	-0.01	-0.12
01/27/14	89	34.78	0.01	0.00	0.00
02/19/14	112	34.78	0.00	0.00	0.00
03/06/14	127	34.78	0.00	0.00	0.00
03/19/14	140	34.78	0.00	0.00	0.00
04/03/14	156	34.77	-0.01	-0.01	-0.12
04/21/14	173	34.78	0.01	0.00	0.00
05/05/14	187	34.78	0.00	0.00	0.00
05/30/14	212	34.78	0.00	0.00	0.00
06/13/14	226	34.78	0.00	0.00	0.00
06/23/14	236	34.78	0.00	0.00	0.00
07/09/14	252	34.78	0.00	0.00	0.00
07/23/14	266	34.77	-0.01	-0.01	-0.12
08/04/14	278	34.77	0.00	-0.01	-0.12
08/21/14	295	34.77	0.00	-0.01	-0.12
09/03/14	308	34.78	0.01	0.00	0.00
09/23/14	328	34.77	-0.01	-0.01	-0.12
10/06/14	341	34.77	0.00	-0.01	-0.12
10/21/14	356	34.77	0.00	-0.01	-0.12
11/04/14	370	34.78	0.01	0.00	0.00
11/18/14	384	34.77	-0.01	-0.01	-0.12
12/05/14	401	34.78	0.01	0.00	0.00
12/19/14	415	34.77	-0.01	-0.01	-0.12
01/09/15	436	34.78	0.01	0.00	0.00
01/23/15	450	34.78	0.00	0.00	0.00
02/12/15	470	34.78	0.00	0.00	0.00
02/27/15	485	34.78	0.00	0.00	0.00
03/13/15	499	34.79	0.01	0.01	0.12
03/27/15	513	34.78	-0.01	0.00	0.00
04/10/15	527	34.78	0.00	0.00	0.00
04/24/15	541	34.79	0.01	0.01	0.12
06/19/15	597	34.78	-0.01	0.00	0.00
07/07/15	615	34.78	0.00	0.00	0.00
07/17/15	625	34.78	0.00	0.00	0.00
07/31/15	639	34.78	0.00	0.00	0.00
08/14/15	653	34.78	0.00	0.00	0.00
08/28/15	667	34.78	0.00	0.00	0.00
09/11/15	681	34.78	0.00	0.00	0.00
09/25/15	695	34.79*	0.01	0.01	0.12
10/09/15	709	34.80	0.01	0.02	0.24
10/23/15	723	34.81	0.01	0.03	0.36
11/06/15	737	34.81	0.00	0.03	0.36
11/20/15	751	34.80	-0.01	0.02	0.24
12/04/15	765	34.79	-0.01	0.01	0.12
12/18/15	779	34.79	0.00	0.01	0.12
01/07/16	799	34.79	0.00	0.01	0.12
01/22/16	814	34.80	0.01	0.02	0.24
02/08/16	831	34.80	0.00	0.02	0.24
03/04/16	856	34.78	-0.02	0.00	0.00
03/18/16	870	34.80	0.02	0.02	0.24
04/01/16	884	34.78	-0.02	0.00	0.00
04/15/16	898	34.80	0.02	0.02	0.24
04/29/16	912	34.79	-0.01	0.01	0.12
05/13/16	926	34.79	0.00	0.01	0.12
05/27/16	940	34.82	0.03	0.04	0.48
09/08/16	1044	34.80	-0.02	0.02	0.24
01/12/17	1170	34.80	-0.02	0.02	0.24
03/23/17	1240	34.82	0.02	0.04	0.48
06/17/17	1326	34.82	0.00	0.04	0.48
09/19/17	1420	34.82	0.00	0.04	0.48
03/12/18	1594	34.82	0.00	0.04	0.48
03/28/18	1610	34.82	0.00	0.04	0.48
06/15/18	1689	34.83	0.01	0.05	0.60
09/19/18	1785	34.83	0.00	0.05	0.60
01/10/19	1898	34.84	0.01	0.06	0.72
03/19/19	1966	34.83	-0.01	0.05	0.60
07/15/19	2084	34.85	0.02	0.07	0.84
11/19/19	2211	34.86	0.01	0.08	0.96
03/05/20	2318	34.84	-0.02	0.06	0.72
04/08/21	2717	34.86	0.02	0.08	0.96
03/17/22	3060	34.86	0.00	0.08	0.96
03/29/23	3437	34.87	0.01	0.09	1.08

STATE OF NEW YORK
STEVEN J. WILLARD
050054
LICENSED LAND SURVEYOR

FERRY POINT PARK

SETTLEMENT PLATE MONITORING

SETTLEMENT PLATE - 6

DATE	CUMULATIVE TIME (days)	RISER ELEVATION (feet)	SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (inches)
10/30/13		32.06	0.00	0.00	0.00
11/13/13	14	32.06	0.00	0.00	0.00
11/26/13	27	32.05	-0.01	-0.01	-0.12
12/09/13	40	32.05	0.00	-0.01	-0.12
12/23/13	54	32.05	0.00	-0.01	-0.12
01/08/14	70	32.05	0.00	-0.01	-0.12
01/27/14	89	32.05	0.00	-0.01	-0.12
02/19/14	112	32.05	0.00	-0.01	-0.12
03/06/14	127	32.05	0.00	-0.01	-0.12
03/19/14	140	32.04	-0.01	-0.02	-0.24
04/03/14	156	32.04	0.00	-0.02	-0.24
04/21/14	173	32.04	0.00	-0.02	-0.24
05/05/14	187	32.05	0.01	-0.01	-0.12
05/30/14	212	32.04	-0.01	-0.02	-0.24
06/13/14	226	32.04	0.00	-0.02	-0.24
06/23/14	236	32.04	0.00	-0.02	-0.24
07/09/14	252	32.03	-0.01	-0.03	-0.36
07/23/14	266	32.04	0.01	-0.02	-0.24
08/04/14	278	32.04	0.00	-0.02	-0.24
08/21/14	295	32.04	0.00	-0.02	-0.24
09/03/14	308	32.04	0.00	-0.02	-0.24
09/23/14	328	32.04	0.00	-0.02	-0.24
10/06/14	341	32.04	0.00	-0.02	-0.24
10/21/14	356	32.03	-0.01	-0.03	-0.36
11/04/14	370	32.03	0.00	-0.03	-0.36
11/18/14	384	32.03	0.00	-0.03	-0.36
12/05/14	401	32.03	0.00	-0.03	-0.36
12/19/14	415	32.03	0.00	-0.03	-0.36
01/09/15	436	32.04	0.01	-0.02	-0.24
01/23/15	450	32.03	-0.01	-0.03	-0.36
02/12/15	470	n/a	n/a	n/a	n/a
02/27/15	485	n/a	n/a	n/a	n/a
03/13/15	499	32.03	0.00	-0.03	-0.36
03/27/15	513	32.03	0.00	-0.03	-0.36
04/10/15	527	32.03	0.00	-0.03	-0.36
04/24/15	541	32.03	0.00	-0.03	-0.36
06/19/15	597	32.03	0.00	-0.03	-0.36
07/07/15	615	32.04	0.01	-0.02	-0.24
07/17/15	625	32.04	0.00	-0.02	-0.24
07/31/15	639	32.02	-0.02	-0.04	-0.48
08/14/15	653	32.02	0.00	-0.04	-0.48
08/28/15	667	32.02	0.00	-0.04	-0.48
09/11/15	681	32.02	0.00	-0.04	-0.48
09/25/15	695	32.02	0.00	-0.04	-0.48
10/09/15	709	32.02	0.00	-0.04	-0.48
10/23/15	723	32.02	0.00	-0.04	-0.48
11/06/15	737	32.02	0.00	-0.04	-0.48
11/20/15	751	32.02	0.00	-0.04	-0.48
12/04/15	765	32.03	0.01	-0.03	-0.36
12/18/15	779	32.03	0.00	-0.03	-0.36
01/07/16	799	32.03	0.00	-0.03	-0.36
01/22/16	814	32.04	0.01	-0.02	-0.24
02/08/16	831	32.03	-0.01	-0.03	-0.36
03/04/16	856	32.03	0.00	-0.03	-0.36
03/18/16	870	32.01	-0.02	-0.05	-0.60
04/01/16	884	31.99	-0.02	-0.07	-0.84
04/15/16	898	32.02	0.03	-0.04	-0.48
04/29/16	912	32.01	-0.01	-0.05	-0.60
05/13/16	926	32.02	0.01	-0.04	-0.48
05/27/16	940	32.01	-0.01	-0.05	-0.60
09/08/16	1044	32.01	0.00	-0.05	-0.60
01/12/17	1170	32.01	0.00	-0.05	-0.60
03/23/17	1240	32.00	-0.01	-0.06	-0.72
06/17/17	1326	32.00	0.00	-0.06	-0.72
09/19/17	1420	32.00	0.00	-0.06	-0.72
03/12/18	1594	32.01	0.01	-0.05	-0.60
03/28/18	1610	32.01	0.00	-0.05	-0.60
06/15/18	1689	32.00	-0.01	-0.06	-0.72
09/19/18	1785	31.99	-0.01	-0.07	-0.84
01/10/19	1898	31.98	-0.01	-0.08	-0.96
03/19/19	1966	31.95	-0.03	-0.11	-1.32
07/15/19	2084	31.98	0.03	-0.08	-0.96
11/19/19	2211	31.98	0.00	-0.08	-0.96
03/05/20	2318	31.87	-0.11	-0.19	-2.28
04/08/21	2717	31.99	0.12	-0.07	-0.84
03/17/22	3060	31.96	-0.03	-0.10	-1.20
03/29/23	3437	31.95	-0.01	-0.11	-1.32

STATE OF NEW YORK
STEVEN J. WILLARD
050054
LICENSED LAND SURVEYOR

FERRY POINT PARK

SETTLEMENT PLATE MONITORING

SETTLEMENT PLATE - 7

DATE	CUMULATIVE TIME (days)	RISER ELEVATION (feet)	SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (inches)
10/30/13		36.81	0.00	0.00	0.00
11/13/13	14	36.81	0.00	0.00	0.00
11/26/13	27	36.80	-0.01	-0.01	-0.12
12/09/13	40	36.80	0.00	-0.01	-0.12
12/23/13	54	36.80	0.00	-0.01	-0.12
01/08/14	70	36.79	-0.01	-0.02	-0.24
01/27/14	89	36.79	0.00	-0.02	-0.24
02/19/14	112	36.79	0.00	-0.02	-0.24
03/06/14	127	36.78	-0.01	-0.03	-0.36
03/19/14	140	36.77	-0.01	-0.04	-0.48
04/03/14	156	36.77	0.00	-0.04	-0.48
04/21/14	173	36.77	0.00	-0.04	-0.48
05/05/14	187	36.76	-0.01	-0.05	-0.60
05/30/14	212	36.75	-0.01	-0.06	-0.72
06/13/14	226	36.76	0.01	-0.05	-0.60
06/23/14	236	36.76	0.00	-0.05	-0.60
07/09/14	252	36.75	-0.01	-0.06	-0.72
07/23/14	266	36.74	-0.01	-0.07	-0.84
08/04/14	278	36.73	-0.01	-0.08	-0.96
08/21/14	295	36.74	0.01	-0.07	-0.84
09/03/14	308	36.74	0.00	-0.07	-0.84
09/23/14	328	36.74	0.00	-0.07	-0.84
10/06/14	341	36.74	0.00	-0.07	-0.84
10/21/14	356	36.73	-0.01	-0.08	-0.96
11/04/14	370	36.73	0.00	-0.08	-0.96
11/18/14	384	36.72	-0.01	-0.09	-1.08
12/05/14	401	36.71	-0.01	-0.10	-1.20
12/19/14	415	36.71	0.00	-0.10	-1.20
01/09/15	436	36.71	0.00	-0.10	-1.20
01/23/15	450	36.70	-0.01	-0.11	-1.32
02/12/15	470	36.70	0.00	-0.11	-1.32
02/27/15	485	36.70	0.00	-0.11	-1.32
03/13/15	499	36.70	0.00	-0.11	-1.32
03/27/15	513	36.70	0.00	-0.11	-1.32
04/10/15	527	36.70	0.00	-0.11	-1.32
04/24/15	541	36.69	-0.01	-0.12	-1.44
06/19/15	597	36.69	0.00	-0.12	-1.44
07/07/15	615	36.69	0.00	-0.12	-1.44
07/17/15	625	36.69	0.00	-0.12	-1.44
07/31/15	639	36.67	-0.02	-0.14	-1.68
08/14/15	653	36.67	0.00	-0.14	-1.68
08/28/15	667	36.67	0.00	-0.14	-1.68
09/11/15	681	36.67	0.00	-0.14	-1.68
09/25/15	695	36.67	0.00	-0.14	-1.68
10/09/15	709	36.67	0.00	-0.14	-1.68
10/23/15	723	36.67	0.00	-0.14	-1.68
11/06/15	737	36.66	-0.01	-0.15	-1.80
11/20/15	751	36.66	0.00	-0.15	-1.80
12/04/15	765	36.67	0.01	-0.14	-1.68
12/18/15	779	36.67	0.00	-0.14	-1.68
01/07/16	799	36.67	0.00	-0.14	-1.68
01/22/16	814	36.66	-0.01	-0.15	-1.80
02/08/16	831	36.67	0.01	-0.14	-1.68
03/04/16	856	36.67	0.00	-0.14	-1.68
03/18/16	870	36.67	0.00	-0.14	-1.68
04/01/16	884	36.66	-0.01	-0.15	-1.80
04/15/16	898	36.66	0.00	-0.15	-1.80
04/29/16	912	36.67	0.01	-0.14	-1.68
05/13/16	926	36.66	-0.01	-0.15	-1.80
05/27/16	940	36.66	0.00	-0.15	-1.80
09/08/16	1044	36.65	-0.01	-0.16	-1.92
01/12/17	1170	36.64	-0.01	-0.17	-2.04
03/23/17	1240	36.64	0.00	-0.17	-2.04
06/17/17	1326	36.62	-0.02	-0.19	-2.28
09/19/17	1420	36.62	0.00	-0.19	-2.28
03/12/18	1594	36.61	-0.01	-0.20	-2.40
03/28/18	1610	36.61	0.00	-0.20	-2.40
06/15/18	1689	36.60	-0.01	-0.21	-2.52
09/19/18	1785	36.59	-0.01	-0.22	-2.64
01/10/19	1898	36.58	-0.01	-0.23	-2.76
03/19/19	1966	36.58	0.00	-0.23	-2.76
07/15/19	2084	36.58	0.00	-0.23	-2.76
11/19/19	2211	36.57	-0.01	-0.24	-2.88
03/05/20	2318	36.55	-0.02	-0.26	-3.12
04/08/21	2717	36.54	-0.01	-0.27	-3.24
03/17/22	3060	36.52	-0.02	-0.29	-3.48
03/29/23	3437	36.51	-0.01	-0.30	-3.60

STATE OF NEW YORK
STEVEN J. WILLARD
050054
LICENSED LAND SURVEYOR

FERRY POINT PARK

SETTLEMENT PLATE MONITORING

SETTLEMENT PLATE - 8

DATE	CUMULATIVE TIME (days)	RISER ELEVATION (feet)	SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (inches)
10/30/13		29.41	0.00	0.00	0.00
11/13/13	14	29.41	0.00	0.00	0.00
11/26/13	27	29.41	0.00	0.00	0.00
12/09/13	40	29.40	-0.01	-0.01	-0.12
12/23/13	54	29.41	0.01	0.00	0.00
01/08/14	70	29.41	0.00	0.00	0.00
01/27/14	89	29.41	0.00	0.00	0.00
02/19/14	112	29.41	0.00	0.00	0.00
03/06/14	127	29.41	0.00	0.00	0.00
03/19/14	140	29.40	-0.01	-0.01	-0.12
04/03/14	156	29.40	0.00	-0.01	-0.12
04/21/14	173	29.41	0.01	0.00	0.00
05/05/14	187	29.41	0.00	0.00	0.00
05/30/14	212	29.41	0.00	0.00	0.00
06/13/14	226	29.42	0.01	0.01	0.12
06/23/14	236	29.42	0.00	0.01	0.12
07/09/14	252	29.40	-0.02	-0.01	-0.12
07/23/14	266	29.41	0.01	0.00	0.00
08/04/14	278	29.42	0.01	0.01	0.12
08/21/14	295	29.41	-0.01	0.00	0.00
09/03/14	308	29.41	0.00	0.00	0.00
09/23/14	328	29.41	0.00	0.00	0.00
10/06/14	341	29.41	0.00	0.00	0.00
10/21/14	356	29.41	0.00	0.00	0.00
11/04/14	370	29.42	0.01	0.01	0.12
11/18/14	384	29.41	-0.01	0.00	0.00
12/05/14	401	29.42	0.01	0.01	0.12
12/19/14	415	29.41	-0.01	0.00	0.00
01/09/15	436	29.41	0.00	0.00	0.00
01/23/15	450	29.41	0.00	0.00	0.00
02/12/15	470	29.41	0.00	0.00	0.00
02/27/15	485	29.41	0.00	0.00	0.00
03/13/15	499	29.41	0.00	0.00	0.00
03/27/15	513	29.41	0.00	0.00	0.00
04/10/15	527	29.42	0.01	0.01	0.12
04/24/15	541	29.41	-0.01	0.00	0.00
06/19/15	597	29.42	0.01	0.01	0.12
07/07/15	615	29.42	0.00	0.01	0.12
07/17/15	625	29.41	-0.01	0.00	0.00
07/31/15	639	29.41	0.00	0.00	0.00
08/14/15	653	29.41	0.00	0.00	0.00
08/28/15	667	29.41	0.00	0.00	0.00
09/11/15	681	29.41	0.00	0.00	0.00
09/25/15	695	29.41	0.00	0.00	0.00
10/09/15	709	29.42	0.01	0.01	0.12
10/23/15	723	29.42	0.00	0.01	0.12
11/06/15	737	29.42	0.00	0.01	0.12
11/20/15	751	29.42	0.00	0.01	0.12
12/04/15	765	29.42	0.00	0.01	0.12
12/18/15	779	29.42	0.00	0.01	0.12
01/07/16	799	29.42	0.00	0.01	0.12
01/22/16	814	29.41	-0.01	0.00	0.00
02/08/16	831	29.42	0.01	0.01	0.12
03/04/16	856	29.41	-0.01	0.00	0.00
03/18/16	870	29.42	0.01	0.01	0.12
04/01/16	884	29.42	0.00	0.01	0.12
04/15/16	898	29.42	0.00	0.01	0.12
04/29/16	912	29.42	0.00	0.01	0.12
05/13/16	926	29.41	-0.01	0.00	0.00
05/27/16	940	29.42	0.01	0.01	0.12
09/08/16	1044	29.42	0.00	0.01	0.12
01/12/17	1170	29.42	0.00	0.01	0.12
03/23/17	1240	29.42	0.00	0.01	0.12
06/17/17	1326	29.41	-0.01	0.00	0.00
09/19/17	1420	29.42	0.01	0.01	0.12
03/12/18	1594	29.41	-0.01	0.00	0.00
03/28/18	1610	29.41	0.00	0.00	0.00
06/15/18	1689	29.41	0.00	0.00	0.00
09/19/18	1785	29.42	0.01	0.01	0.12
01/10/19	1898	29.42	0.00	0.01	0.12
03/19/19	1966	29.41	-0.01	0.00	0.00
07/15/19	2084	29.41	0.00	0.00	0.00
11/19/19	2211	29.41	0.00	0.00	0.00
03/05/20	2318	29.42	0.01	0.01	0.12
04/08/21	2717	29.41	-0.01	0.00	0.00
03/17/22	3060	29.40	-0.01	-0.01	-0.12
03/29/23	3437	29.42	0.02	0.01	0.12

STATE OF NEW YORK
STEVEN J. WILLARD
050054
LICENSED LAND SURVEYOR

FERRY POINT PARK

SETTLEMENT PLATE MONITORING

SETTLEMENT PLATE - 9

DATE	CUMULATIVE TIME (days)	RISER ELEVATION (feet)	SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (feet)	CUMULATIVE SETTLEMENT (inches)
10/30/13		37.63	0.00	0.00	0.00
11/13/13	14	37.63	0.00	0.00	0.00
11/26/13	27	37.63	0.00	0.00	0.00
12/09/13	40	37.64	0.01	0.01	0.12
12/23/13	54	37.63	-0.01	0.00	0.00
01/08/14	70	37.64	0.01	0.01	0.12
01/27/14	89	37.63	-0.01	0.00	0.00
02/19/14	112	37.64	0.01	0.01	0.12
03/06/14	127	37.64	0.00	0.01	0.12
03/19/14	140	37.65	0.01	0.02	0.24
04/03/14	156	37.64	-0.01	0.01	0.12
04/21/14	173	37.64	0.00	0.01	0.12
05/05/14	187	37.65	0.01	0.02	0.24
05/30/14	212	37.63	-0.02	0.00	0.00
06/13/14	226	37.64	0.01	0.01	0.12
06/23/14	236	37.64	0.00	0.01	0.12
07/09/14	252	37.62	-0.02	-0.01	-0.12
07/23/14	266	37.64	0.02	0.01	0.12
08/04/14	278	37.63	-0.01	0.00	0.00
08/21/14	295	37.63	0.00	0.00	0.00
09/03/14	308	37.64	0.01	0.01	0.12
09/23/14	328	37.63	-0.01	0.00	0.00
10/06/14	341	37.63	0.00	0.00	0.00
10/21/14	356	37.63	0.00	0.00	0.00
11/04/14	370	37.64	0.01	0.01	0.12
11/18/14	384	37.63	-0.01	0.00	0.00
12/05/14	401	37.63	0.00	0.00	0.00
12/19/14	415	37.63	0.00	0.00	0.00
01/09/15	436	37.64	0.01	0.01	0.12
01/23/15	450	37.63	-0.01	0.00	0.00
02/12/15	470	37.62	-0.01	-0.01	-0.12
02/27/15	485	37.62	0.00	-0.01	-0.12
03/13/15	499	37.62	0.00	-0.01	-0.12
03/27/15	513	37.64	0.02	0.01	0.12
04/10/15	527	37.63	-0.01	0.00	0.00
04/24/15	541	37.62	-0.01	-0.01	-0.12
06/19/15	597	37.63	0.01	0.00	0.00
07/07/15	615	37.63	0.00	0.00	0.00
07/17/15	625	37.63	0.00	0.00	0.00
07/31/15	639	37.62	-0.01	-0.01	-0.12
08/14/15	653	37.62	0.00	-0.01	-0.12
08/28/15	667	37.62	0.00	-0.01	-0.12
09/11/15	681	37.62	0.00	-0.01	-0.12
09/25/15	695	37.62	0.00	-0.01	-0.12
10/09/15	709	37.63	0.01	0.00	0.00
10/23/15	723	37.64	0.01	0.01	0.12
11/06/15	737	37.65	0.01	0.02	0.24
11/20/15	751	37.66	0.01	0.03	0.36
12/04/15	765	37.64	-0.02	0.01	0.12
12/18/15	779	37.64	0.00	0.01	0.12
01/07/16	799	37.64	0.00	0.01	0.12
01/22/16	814	37.64	0.00	0.01	0.12
02/08/16	831	37.64	0.00	0.01	0.12
03/04/16	856	37.66	0.02	0.03	0.36
03/18/16	870	37.63	-0.03	0.00	0.00
04/01/16	884	37.63	0.00	0.00	0.00
04/15/16	898	37.64	0.01	0.01	0.12
04/29/16	912	37.64	0.00	0.01	0.12
05/13/16	926	37.63	-0.01	0.00	0.00
05/27/16	940	37.65	0.02	0.02	0.24
09/08/16	1044	37.64	-0.01	0.01	0.12
01/12/17	1170	37.64	-0.01	0.01	0.12
03/23/17	1240	37.63	-0.01	0.00	0.00
06/17/17	1326	37.61	-0.02	-0.02	-0.24
09/19/17	1420	37.64	0.03	0.01	0.12
03/12/18	1594	37.64	0.00	0.01	0.12
03/28/18	1610	37.64	0.00	0.01	0.12
06/15/18	1689	37.64	0.00	0.01	0.12
09/19/18	1785	37.63	-0.01	0.00	0.00
01/10/19	1898	37.63	0.00	0.00	0.00
03/19/19	1966	37.63	0.00	0.00	0.00
07/15/19	2084	37.64	0.01	0.01	0.12
11/19/19	2211	37.67	0.03	0.04	0.48
03/05/20	2318	37.63	-0.04	0.00	0.00
04/08/21	2717	37.64	0.01	0.01	0.12
03/17/22	3060	37.64	0.00	0.01	0.12
03/29/23	3437	37.63	-0.01	0.00	0.00

STATE OF NEW YORK
STEVEN J. WILLARD
050054
LICENSED LAND SURVEYOR

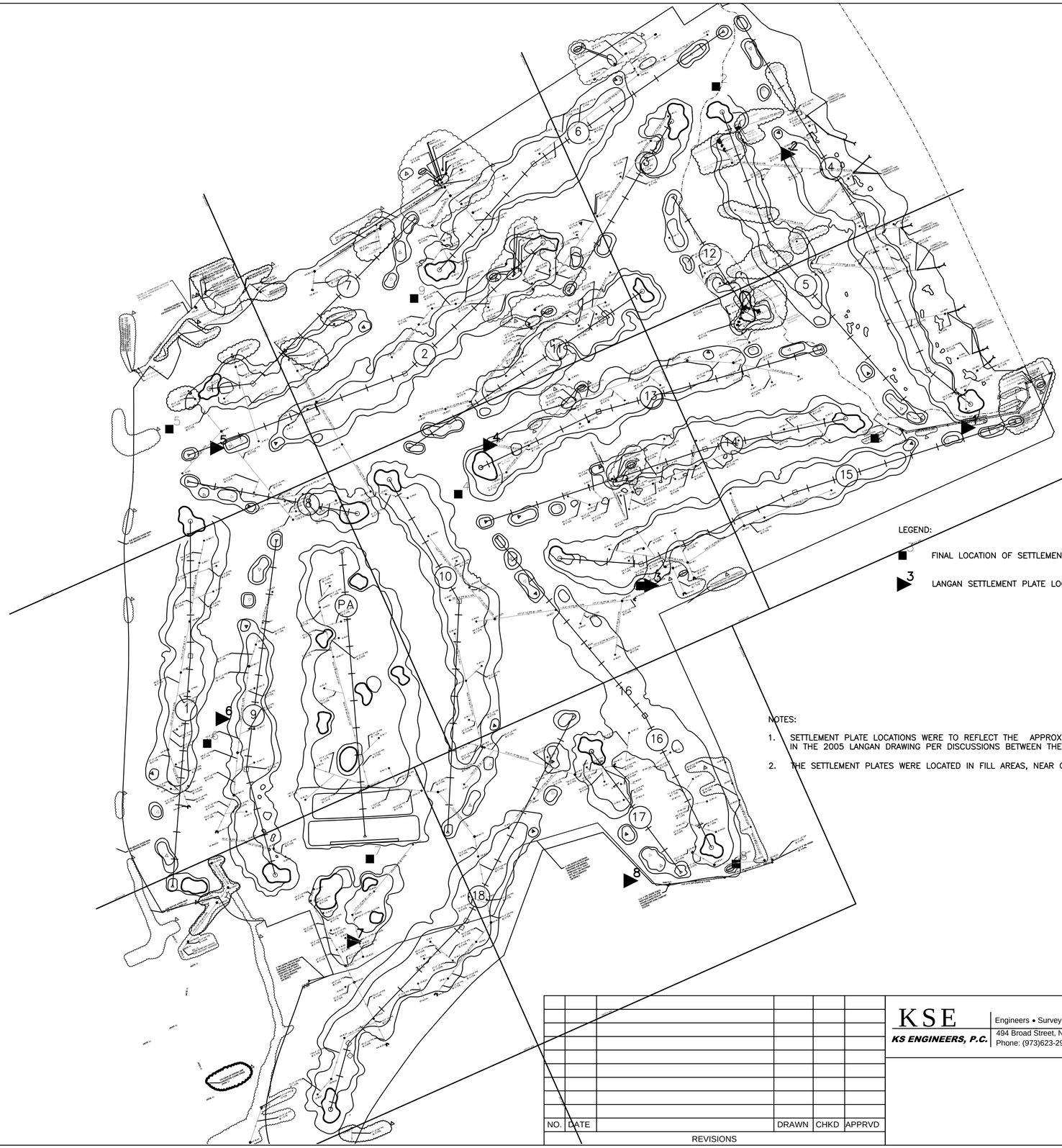

LEGEND:

FINAL LOCATION OF SETTLEMENT PLATES

LANGAN SETTLEMENT PLATE LOCATIONS, (2005)

NOTES:

1. SETTLEMENT PLATE LOCATIONS WERE TO REFLECT THE APPROXIMATE LOCATIONS SHOWN IN THE 2005 LANGAN DRAWING PER DISCUSSIONS BETWEEN THE IEM AND SANFORD GOLF.

2. THE SETTLEMENT PLATES WERE LOCATED IN FILL AREAS, NEAR GREENS AND/OR UTILITIES.

NO.	DATE		DRAWN	CHKD	APPRVD
		REVISIONS			

KSE
KS ENGINEERS, P.C.
Engineers • Surveyors • Construction Managers
494 Broad Street, Newark, N.J. 07102
Phone: (973)623-2999, Fax: (973)623-2988

FERRY POINT GOLF COURSE
SETTLEMENT PLATE LOCATIONS

DESIGN BY: L.KERN
DRAWN BY: M. CHOUDHURY
CHECKED BY: H. BAKER
SCALE: N.T.S.
DATE: 04/11/2012

Mizanur Choudhury
12/6/2007 4:36:28 PM
J:\2011\11193\KSE\DWG\Settlement Plate Locations.dwg
KseFs.ctb

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Regional Director, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4949 I F: (718) 482-4026
www.dec.ny.gov

June 15, 2023

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Re: **2023 Annual Settlement Plate Monitoring Report**
Ferry Point Park Golf Course, Bronx, NY
NYSDEC Permit No. 2-6006-00014/00013

New York State Department of Environmental Conservation (Department) staff have received the subject report prepared by GEI Consultants, Inc. (GEI) dated June 15, 2023, on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the annual settlement plate monitoring event conducted on March 29, 2023, at the Ferry Point.

Based on the March 2023 results and assessment of historic settlement data, GEI has recommended that NYCDPR make a request to NYSDEC to terminate all future settlement plate monitoring, as long as the former landfill continues to be utilized and maintained in its current condition as a golf course.

After careful review of the settlement plate data from the last four annual reports from 2020-2023 and previously performed quarterly monitoring (later reduced to annual monitoring as per NYSDEC approval dated Jan 7, 2020) along with specific circumstances and history of this site, the Department hereby grants your request to suspend all future annual settlement plate monitoring.

If you have any questions regarding this matter or need additional information on the regulatory requirements, please feel free to contact our office at 718 482-4996.

Sincerely,

Mahmoud Assi, P.E.
Regional Materials Management Engineer

cc: M. Rowland, NYCDPR.
K. Zias, NYCDPR
W. Frank/S. Samuel, R2 DMM
Stacey Ng, GEI Consultants

2023-06-16.03S25.FerryPointParkLandfill_SuspensionofSettlementPlateMonitoring.cr.assi

Appendix F

Sub-Slab Depressurization System Monitoring Reports

April 20, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Dear Ms. Catalanotto:

Re: Quarterly Sub-Slab Depressurization System (SSDS) Monitoring - Quarter 1, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the SSDS infrastructure monitoring event conducted on March 28, 2023, at the Ferry Point Park Golf Course and Community Park. Quarterly sub-slab depressurization (SSD) and combustible gas (CG) monitoring system operations, maintenance, and monitoring (OM&M) is performed in compliance with the NYSDEC Permit No. 2-6006-00014/00013, the October 2013 *Post Construction Custodial Care Plan*, the October 2013 *Landfill Gas Management Plan*, and the site-specific OM&M Manual.

The following locations are included in the SSDS and/or CG OM&M:

- Community Park Comfort Station (CPCS);
- Golf Course Maintenance Building (Maintenance Building):
- Golf Course Comfort Station (GCCS);
- Golf Course Cart Storage Barn (Cart Barn); and
- Golf Course Clubhouse (Clubhouse).

GEI Consultants, Inc.
530 7th Avenue, Suite 2007, New York, NY 10018
212.687.8282

Summary of OM&M Inspection Activities

SSD and CG monitoring systems OM&M activities included visual inspections and collection of oxygen, organic vapor, and methane (percent methane by volume, percent lower explosive limit [LEL]) readings from beneath the building slabs. In locations with sub-slab monitoring points, sub-slab pressure was measured to determine if the SSDS is creating a negative pressure beneath the structures. The location of on- and off-Site buildings with SSD and CG systems are depicted on Figure 1, and the system layout and components for each building are depicted on Figure 2 through 6.

OM&M Observations and Results

Community Park Comfort Station (CPCS)

OM&M was performed at the CPCS on March 28, 2023, which included the collection of sub-slab pressure CG readings, inspection of the SSDS to verify it was operational, as well as a review of the real-time data at the CG sensor. Table 1 contains a summary of the OM&M visit results, with historical data presented on Table 2A. Below is a summary of the observations made during the CPCS monitoring event:

- The SSD and CG systems were operational during, and prior to, the Q1 monitoring event;
- The combustible gas data logging system was online, operational and transmitting data to the central datalogging panel, registering the ambient readings of 0.0% LEL;
- Low levels of volatile organic compounds (VOCs) were detected within the building;
- Methane and VOCs were detected at low concentrations under the building;
- Sub-slab pressure measurements collected from the sub-slab monitoring point (Figure 2) during the Q1 monitoring event indicated that there was not a negative pressure gradient being generated beneath the building slab by the SSDS, however the blower was operational and CG concentrations were low within the building. The pressure issue has occurred during previous events and is thought to be associated with seasonal variations.

Golf Course Maintenance Building (Maintenance Building)

OM&M performed at the Maintenance Building included the inspection of the SSDS to verify it was operational, collection of sub-slab pressure CG readings, and

review of the real-time data at the CG sensor. A summary of the Q1 monitoring results is presented on Table 1, with historical data presented on Table 2B. Below is a summary of the observations denoted at the Maintenance Building during the OM&M event:

- The SSD and CG systems were operational during, and prior to, the Q1 monitoring event;
- The combustible gas data logging system was online, operational and transmitting data to the central datalogging panel, registering the ambient readings of 0.0% LEL;
- Low levels of volatile organic compounds (VOCs) were detected within the building;
- Methane and VOCs were detected at low concentrations under the building;
- Sub-slab pressure measurements collected from the sub-slab monitoring points (Figure 3) during the Q1 monitoring event indicated that the SSDS was generating negative pressure beneath the building slab. The negative pressure was greater than Q4 2022, and of similar to that of Q1 2022. The methane LEL detected at MP-1 was lesser than that of Q4 2022 (8% and 34%, respectively) while the methane LEL was greater at MP-2 and MP-3 than Q4 2022 (2% and 0%, respectively).

Golf Course Comfort Station (GCCS)

GCCS monitoring included the review of the real-time data at the CG sensor, the inspection of the SSDS to verify it was operational, and collection of sub-slab pressure CG readings. Table 1 contains a summary of the OM&M visit results, with historical data presented on Table 2C. Below is a summary of the observations made at the GCCS during the OM&M event:

- The SSD and CG systems were operational prior to and during the Q1 monitoring event;
- The combustible gas data logging system was online, operational and transmitting data to the central datalogging panel, registering the ambient readings of 0.0% LEL;
- Low levels of volatile organic compounds (VOCs) were detected within the building at MP-1;

- Methane and VOCs were detected at low concentrations under the building at all three monitoring points;

- Sub-slab pressure measurements collected from the three sub-slab monitoring points (Figure 4) during the Q1 monitoring event indicated that the SSDS is generating negative pressure beneath the slab. The vacuum pressure recorded at MP-3 was significantly lower than that of Q4 2022, however it was consistent with historical data.

Golf Course Cart Storage Barn (Cart Barn)

OM&M performed at the Cart Barn included the inspection of the SSDS to verify it was operational, collection of sub-slab pressure CG readings, and review of the real-time data at the CG sensor. A summary of the Q1 monitoring results is presented on Table 1, with historical data presented on Table 2D. Below is a summary of the observations made during the OM&M event at the Cart Barn:

- The SSD and CG systems were operational during, and prior to, the Q1 monitoring event;

- The combustible gas data logging system was online, operational and transmitting data to the central datalogging panel, registering the ambient readings of 0.0% LEL;

- Low levels of volatile organic compounds (VOCs) were detected at all monitoring points within the building;

- Methane and VOCs were detected at low concentrations under the Cart Barn;

- Sub-slab pressure measurements collected from all four sub-slab monitoring points (Figure 5) during the Q1 monitoring event indicated that the SSDS was generating negative pressure beneath the building slab, consistent with historical data. However, the flow pressure measured at the blower was significantly lower than that of previous OM&M events.

Golf Course Clubhouse (Clubhouse)

The Clubhouse OM&M event included the review of the real-time data at the CG sensor, the inspection of the SSDS to verify it was operational, and collection of sub-slab pressure CG readings. Table 1 contains a summary of the OM&M visit results, with historical data presented on Table 2E. Below is a summary of the observations made at the Clubhouse during the monitoring event:

- The SSD and CG systems were operational prior to and during the Q1 monitoring event;
- The combustible gas data logging system was online, operational and transmitting data to the central datalogging panel, registering the ambient readings of 0.0% LEL;
- Low levels of volatile organic compounds (VOCs) were detected within the building at all ten monitoring point locations;
- Methane and VOCs were detected at low concentrations under the building at all monitoring points (MP-1 to MP-10);
- Sub-slab pressure measurements collected from the ten sub-slab monitoring points (Figure 6) during the Q1 monitoring event indicated that the SSDS is generating negative pressure beneath the slab, consistent with measurements collected during previous events. The vacuum pressure noted at MP-3 (located in the dining area) was greater than that of historical events.

Conclusions and Recommendations

From the Quarter 1 OM&M event, the results confirm that the SSD and GC systems are operational. Sub-slab pressure readings collected from the on- and off-Site monitoring points indicated that the SSDS in the Golf Course Comfort Station, Golf Course Cart Storage Barn, Golf Course Maintenance Building and Golf Course Clubhouse are creating a negative pressure gradient beneath the building slabs. The Community Park Comfort Station did not demonstrate negative pressure conditions; however, the blower was operational and only low levels of volatile organic compounds (VOCs) were detected within the building.

All CG sensors were communicating with their respective control panels and registered ambient methane readings of 0.0% LEL. The main datalogging panel, located in the Golf Course Maintenance Building, is receiving data from the Golf Course Cart Barn, Golf Course Clubhouse, Community Park and Golf Course Comfort Stations, and Golf Course Maintenance Building. Combustible gas data is accessed remotely, reviewed and downloaded periodically. Methane readings from the CG sensor data are monitored and downloaded periodically, and no alarm conditions have been registered.

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

Enclosures:
Figure 1 – SSD and CG System Locations
Figure 2 – Community Park Comfort Station
Figure 3 – Golf Course Maintenance Building
Figure 4 – Golf Course Comfort Station
Figure 5 – Golf Course Cart Storage Barn
Figure 6 – Golf Course Clubhouse
Table 1 - Summary of 2023 Q1 OM&M Data
Table 2A - Comparison of Community Park Comfort Station OM&M Data
Table 2B - Comparison of Golf Course Maintenance Building OM&M Data
Table 2C - Comparison of Golf Course Comfort Station OM&M Data
Table 2D - Comparison of Golf Course Cart Storage Barn OM&M Data
Table 2E - Comparison of Golf Course Clubhouse OM&M Data

c: M. Rowland, NYCDPR
K. Zias, NYCDPR
K. McCarty, GEI

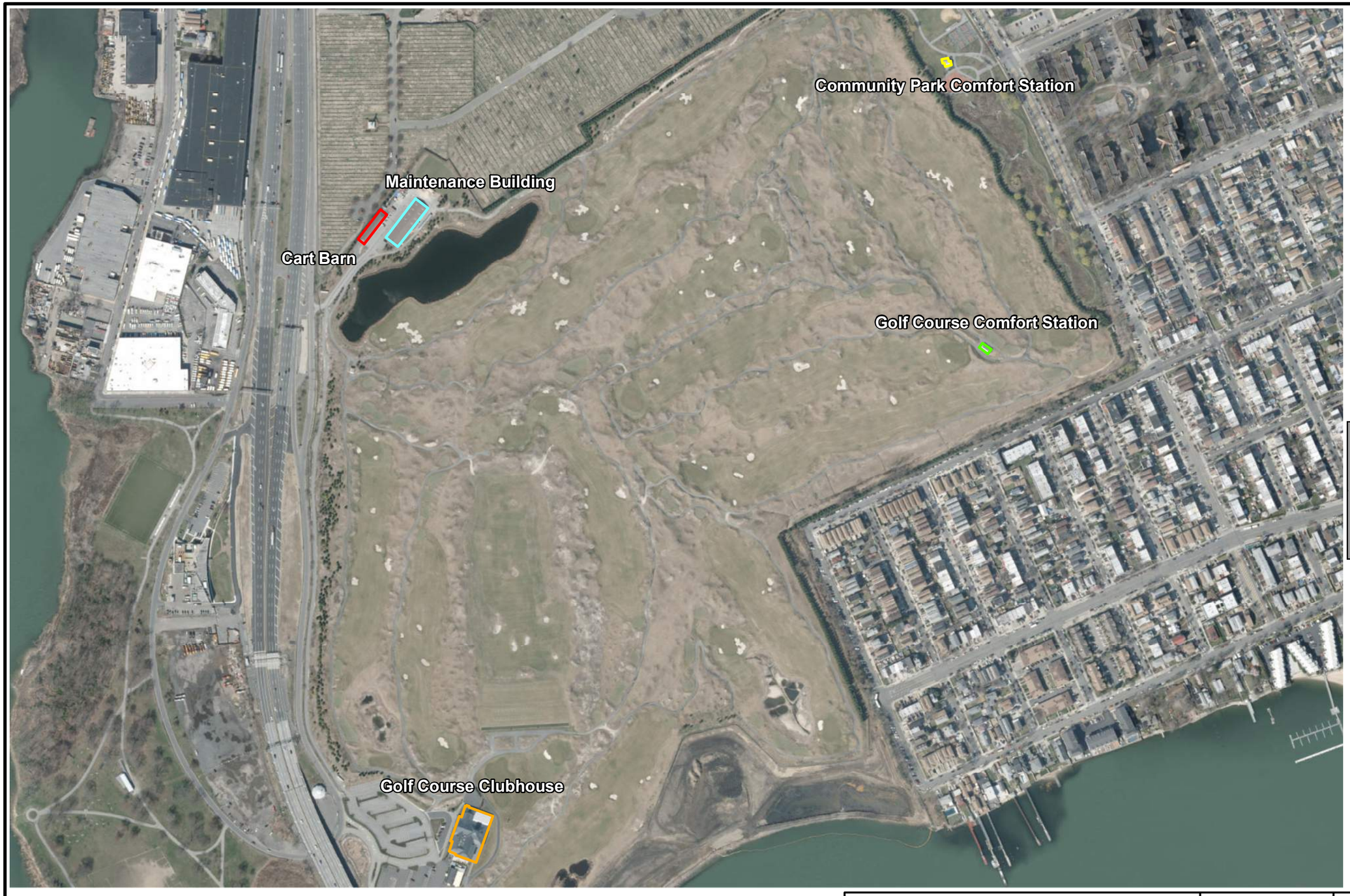

LEGEND

- Cart Barn
- Golf Course Comfort Station
- Maintenance Building
- Golf Course Clubhouse
- Community Park Comfort Station

SOURCE:
1. ESRI IMAGERY BASE MAP

0 300 600
SCALE: 1 " = 409 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

GEI Consultants

Project 2204594

SSD AND CG SYSTEM

Fig. 1

B:\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\Reports\SSDS\2023 Reports\Q1\Figure 1.mxd

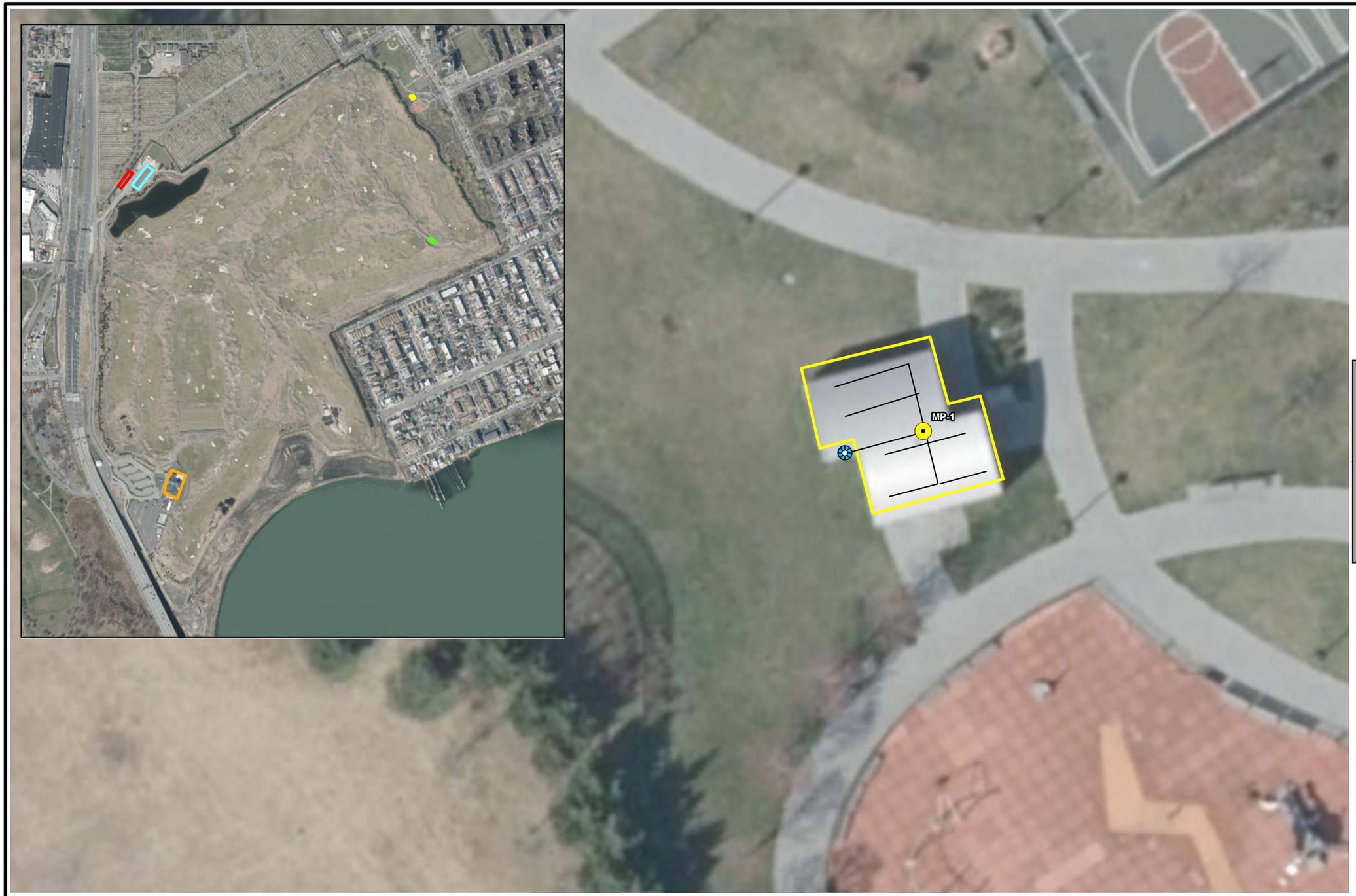

LEGEND

- Vertical Riser with Sampling Point
- Sub-Slab Monitoring Point
- SSDS Piping
- Cart Barn
- Golf Course Comfort Station
- Maintenance Building
- Golf Course Clubhouse
- Community Park Comfort Station

SOURCE:
1. ESRI IMAGERY BASE MAP

0 10 20
SCALE: 1 " = 20 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

GEI Consultants

Project 2204594

COMMUNITY PARK
COMFORT STATION

Fig. 2

B:\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\Reports\SSDS\2023 Reports\Q1\Figure 2.mxd

LEGEND

- CG Control Panel
- Combustible Gas Meter
- Sub-Slab Depressurization Pit
- Sub-Slab Monitoring Point
- Vertical Riser
- SSDS Piping
- Cart Barn
- Golf Course Comfort Station
- Maintenance Building
- Golf Course Clubhouse
- Community Park Comfort Station

SOURCE:
1. ESRI IMAGERY BASE MAP

0 10 20
SCALE: 1 " = 27 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

GEI Consultants

Project 2204594

MAINTENANCE BUILDING

Fig. 3

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LEGEND

- Controller
- Exterior SSDS Monitoring Point
- Interior SSDS Monitoring Point
- Methane and H2S Sensor
- Methane Sensor
- 6" PVC
- Sub-Slab Depressurization Pit
- SSDS Piping
- Maintenance Building
- Cart Barn
- Golf Course Comfort Station
- Community Park Comfort Station
- Golf Course Clubhouse

SOURCE:
1. ESRI IMAGERY BASE MAP

0 10 20

SCALE: 1 " = 10 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

GEI Consultants

Project 2204594

GOLF COURSE COMFORT STATION

Fig. 4

B:\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\Reports\SSDS\2023 Reports\Q1\Figure 4.mxd

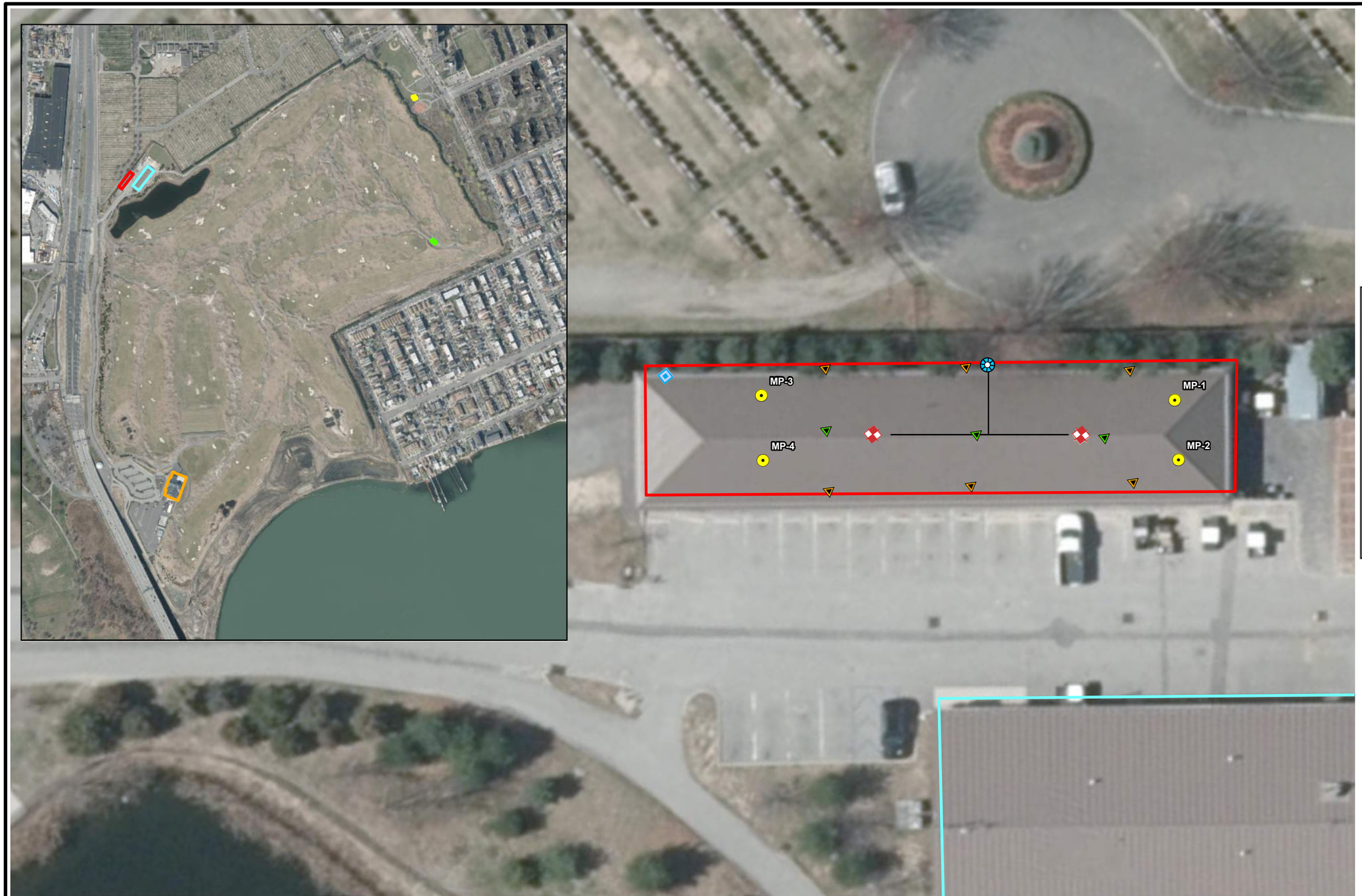

LEGEND

- 2 Combustible Point
- Combustible Point
- Controller
- Monitoring Point
- Pit
- Sub-slab monitoring
- SSDS Piping
- Cart Barn
- Golf Course Comfort Station
- Maintenance Building
- Golf Course Clubhouse
- Community Park Comfort Station

SOURCE:
1. ESRI IMAGERY BASE MAP

0 10 20
SCALE: 1 " = 26 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

GEI Consultants

Project 2204594

CART BARN

Fig. 5

B:\Working\NYCDPR\2204594 Ferry Point Park Environmental Engineering\Reports\SSDS\2023 Reports\Q1\Figure 5.mxd

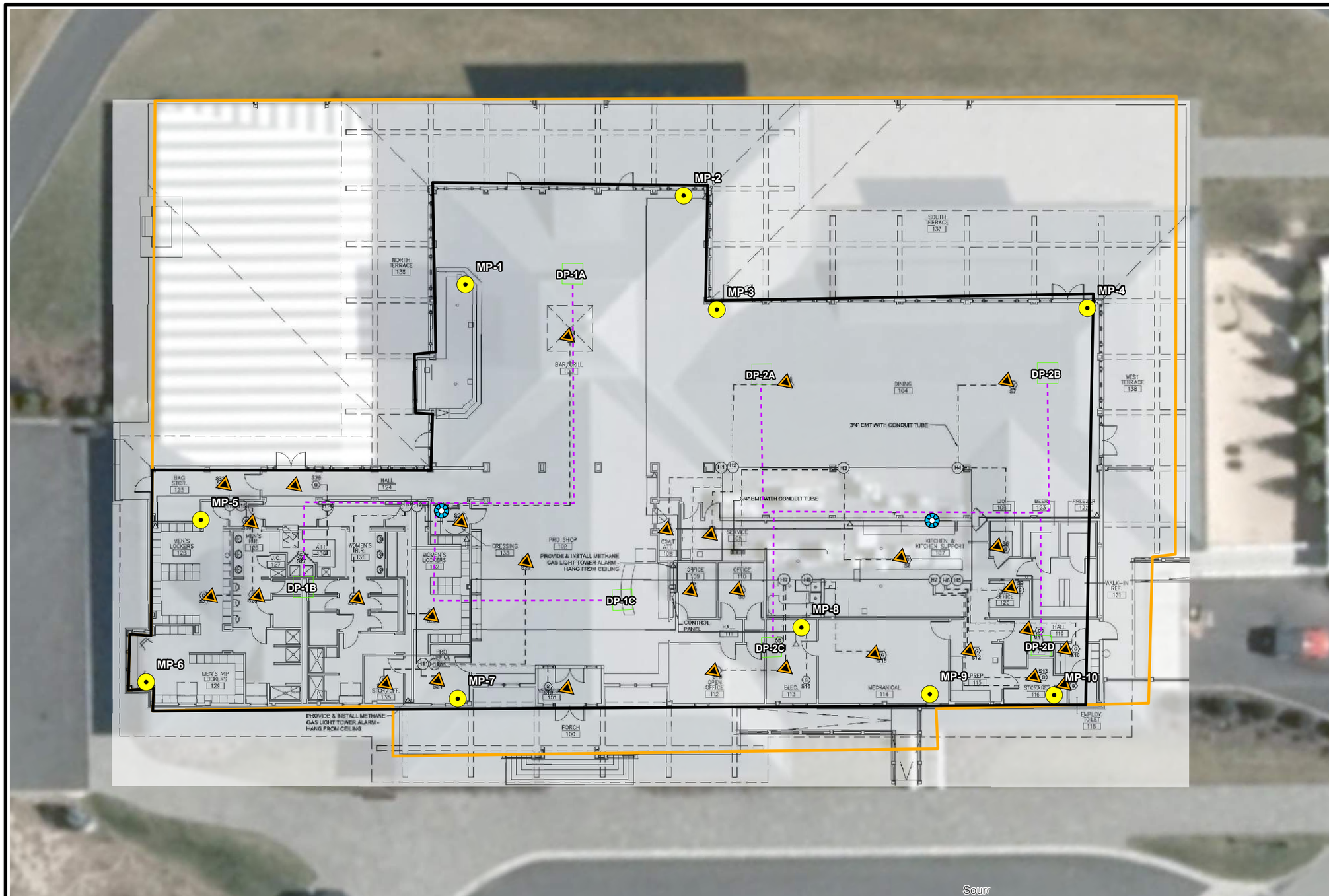

LEGEND

- Gas Sensor
- Suction Fan Vertical Riser
- Sub-Slab Monitoring Point
- SSDS Piping
- Depressurization Pit
- Maintenance Building
- Community Park Comfort Station
- Cart Barn
- Golf Course Comfort Station
- Interior Clubhouse
- Golf Course Clubhouse

SOURCE:
1. ESRI IMAGERY BASE MAP

0 10 20
SCALE: 1 " = 20 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

GEI Consultants

GOLF COURSE CLUBHOUSE

Project 2204594

Fig. 6

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Table 1
Summary of 2023 Q1 OM Data - Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Ferry Point Park, Bronx, NY

Sub-slab Depressurization (SSD) and Combustible Gas (CG) System Status	Community Park Comfort Station	Golf Course Maintenance Building			Golf Course Comfort Station			Cart Storage Barn					Golf Course Clubhouse Building									
Date	3/28/2023	3/28/2023			3/28/2023			3/28/2023					3/28/2023									
SSD System	Operational	Operational			Operational			Operational					Operational									
CG System	Operational	Operational			Operational			Operational					Operational									
CG System Alarm Status	No Alarm Conditions	No Alarm Conditions			No Alarm Conditions			No Alarm Conditions					No Alarm Conditions									
SSD/CG System OM&M Data	MP-1	MP-1	MP-2	MP-3	MP-1	MP-2	MP-3	Blower	MP-1	MP-2	MP-3	MP-4	MP-1	MP-2	MP-3	MP-4	MP-5	MP-6	MP-7	MP-8	MP-9	MP-10
Pressure ("WC)	0.012	-2.430	-1.863	-1.415	-5.567	-5.580	-0.816	-0.450	-0.729	-0.678	-0.717	-0.721	-0.427	-0.002	-2.55	-0.063	-0.003	-0.439	-0.406	-0.055	-0.056	-0.069
LEL (%)	2	8	2	2	4	2	4	2	2	2	2	2	2	2	2	2	2	4	4	2	2	2
Methane By Volume (%)	0.1	0.4	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1
Ambient LEL (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oxygen (%)	21.6	20.6	21.0	20.9	21.9	21.8	21.5	21.3	21.2	21.1	21.3	21.4	21.5	21.3	20.9	21.1	21.7	22.0	22.0	20.9	20.9	21.0
Maximum Ambient PID (ppm)	0.1	0.4	0.7	0.3	0.1	0.0	0.0	0.2	0.3	0.3	0.5	0.6	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.3	0.2	0.2
Sub-Slab PID (ppm)	0.2	0.6	0.5	0.3	0.1	0.1	0.2	0.1	0.2	0.2	0.3	0.2	0.2	0.4	0.4	0.2	0.4	0.3	0.2	0.4	0.2	0.3

Notes:
"WC - Inches of Water
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figures 2 through 5 for locations)
cfm - cubic feet per minute
N/A - not applicable
NM - not measured
IA - inaccessible
*No pressure reading in blower however flow reading provided in cubic feet per minute (cfm)

Table 2A
Comparison of OM Data
Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Community Park Comfort Station
Ferry Point Park, Bronx, NY

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Community Park Comfort Station						
				MP-1						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
3/22/2017	30.14	37	Yes	Sub-slab monitoring point MP-1 installed on August 15, 2018						
6/19/2017	29.78	84	Yes							
9/22/2017	29.98	75	Yes							
12/20/2017[1]	29.84	45	Yes							
3/28/2018	30.04	50	Yes							
6/25/2018	30.03	70	Yes							
9/27/2018 and 10/3/2018	30.03	60	Yes	-0.14	0	0	0	21.3	0	0
12/17-18/2018[2]	29.62-29.94	45-35	Yes	0.003[3]	0	0	0	20.6	0	0
2/4/2019[4]	30	55	Yes	-0.012	0	0	0	20.7	0	0
3/14/2019	30.07	48	Yes	-0.009	0	0	0	20.7	0	0
6/27/2019	30.11	79	Yes	-0.013	0	0	0	19.7	0.2	0.7
9/4/2019	29.94	75	Yes	-0.018	0	0	0	20.5	0	0
1/8/2020	30.03	35	Yes	-0.009	0	0	0	20.3	0	0.1
4/28/2020	30.15	45	Yes	-0.003	0	0	0	21.3	0.1	0.1
6/29/2020	29.83	75	Yes	-0.03	0	0	0	20.7	0	0
9/24/2020	29.95	64	Yes	-0.067	0	0	0	20.9	0	0
12/14/2020	29.96	40	Yes	-0.011	0	0	0	21.5	0	0
3/22/2021	30.37	46	Yes	-0.004	0	0	0	22	0	0
6/28/2021	30.29	78	Yes	0.002	0	0	0	20.4	0.4	0.4
9/28/2021	29.81	71	Yes	-0.004	0	0	0	21.2	0	0
12/20/2021	30.29	27	Yes	-0.009	0	0	0	21.1	0	0
3/16/2022	30.2	55	Yes	-0.024	0	0	0	21.1	0	0
6/28/2022	30.04	67	Yes	-0.06	0	0	0	20.6	0	0
9/20/2022	29.85	70	Yes	0.06	0	0	0	22.2	0	0
12/6/2022	30.25	50	Yes	0.123	0	0	0	21	0	0
3/28/2023	30.05	52	Yes	0.012	2	0.1	0	21.6	0.1	0.2

Notes:
"WC - Inches of Water
"Hg - inches of mercury
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figure 2 for locations)
cfm - cubic feet per minute
N/A - not applicable
% O_2 - percent oxygen
°F - degrees Fahrenheit
[1]Ambient % Ox reading of 23.5% due to inability to field calibrate GEM5000 oxygen sensor
[2]Monitoring event split between two days due to access issues
[3]Vacuum fluctuated between +0.024 to -0.018. Average = +0.003
[4]Recheck to see if Vacuum is generating negative pressure at MP-1

Table 2B
Comparison of OM Data - Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Golf Course Maintenance Building
Ferry Point Park, Bronx, NY

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Golf Course Maintenance Building																				
				MP-1							MP-2							MP-3						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
3/22/2017	30.02	61.7	Yes	-0.112	0	0	0	20.7	8	0	-0.197	2	0.1	0	19.3	8	19	-0.153	>100	20.3	0	0	8	0
6/21/2017	29.91	70	Yes	-0.123	2	0.1	0	N/A	0	0	-0.090	0	0	0	20.6	0	0	-0.025	0	0	0	20.9	0.1	0.3
9/22/2017	29.93	75	Yes	-0.058	76	3.8	0	4.2	0	0	-0.031	2	0.1	0	19.3	0	0	-0.04	>100%	23.1	1	0	0	0.2
12/20/2017[1]	29.92	65	Yes	-0.089	44	2.2	0	13.3	0	0	-0.025	12	0.6	0	20.8	0	1	-0.056	>100%	24.6	0	0.4	0.1	0.2
3/28/2018	30.04	68	Yes	-2.800	0	0	0	21.1	0	0	-2.817	0	0	0	2.2[2]	0	0	Inaccessible						
6/25/2018	30.03	70	Yes	-2.768	2	0.1	2	19.8	0	0	-2.779	2	0.1	2	20.7	0	0	Inaccessible						
9/27/2018	30	57	Yes	-0.050	28	1.4	0	6.2	0	1	-0.074	0	0	0	20.4	0	0	-0.036	>100	7.7	0	1.2	0	0
12/17/2018	29.62	45	Yes	-0.077	44	2.2	0.1	10	0	0	-0.084	2	0.1	0.1	18.8	0	0	Inaccessible						
2/4/2019[3]	30	55	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-0.033	>100	15.2	0	1.3	0.4	0.3
3/15/2019	29.64	62	Yes	-0.054	44	2.2	0	12	1.5	1.5	-0.054	16	0.8	0	18.9	1.4	1.4	-0.063	>100	19.9	0	0.5	4.6	0
6/13/2019	29.63	77	Yes	-0.029	30	1.5	0	8.4	0.2	0.4	-0.022	30	1.5	0	11.3	0	0	-0.057	>100	17.7	0	0.4	0	0
9/4/2019	29.94	78	Yes	-2.650	0	0	0	20.6	0.1	0	-2.663	0	0	0	20.3	0	0	-2.666	0	0	0	15.9	0	0
1/8/2020	30.04	36	Yes	-2.710	0	0	0	20.3	0.1	0.2	-2.730	0	0	0	20.0	1.3	0.8	-2.729	0	0	0	16.2	0.6	0.8
4/7/2020	29.9	53	Yes	-2.679	0	0	0	21	0.4	0	-2.698	0	0	0	21.0	1.8	0	-2.704	0	0	0	21	0.4	0
6/29/2020	29.83	75	Yes	-2.605	0	0	0	20.6	0.2	0	-2.606	0	0	0	20.7	0	0	-2.602	0	0	0	16.1	0	0
9/24/2020	29.95	64	Yes	-1.570	0	0	0	20.8	0	0	-2.500	0	0	0	20.1	0	0	-1.92	0	0	0	20.9	0	0
12/15/2020	30.26	39	Yes	-1.892	0	0	0	21.1	0	0	-2.618	0	0	0	20.3	0	0	-2.005	0	0	0	21.3	0	0
3/22/2021	30.38	46	Yes	-2.517	0	0	0	21.2	0	0	-2.516	0	0	0	21.0	0	0	-2.621	0	0	0	21.6	0	0
6/28/2021	30.21	81	Yes	-2.541	0	0	0	20.1	0	0	-2.549	0	0	0	20.7	0	0	-2.542	0	0	0	17.5	0.2	0.2
9/28/2021	29.81	72	Yes	-2.604	0	0	0	21.6	0	0	-2.651	0	0	0	20.2	0	0.8	-2.611	0	0	0	21.4	0	0
12/20/2021	30.28	28	Yes	-1.957	0	0	0	20.9	0	0	-1.979	0	0	0	20.6	0	0	-1.968	0	0	0	20.6	0	0
3/16/2022	30.2	55	Yes	-2.143	0	0	0	20.9	0	0	-2.099	0	0	0	20.2	0	0	-2.159	0	0	0	20.6	0	0
6/28/2022	30.04	67	Yes	-0.030	0	0	0	15.2	0	0	-0.013	0	0	0	15.5	0	0	-0.023	0	0	0	9	0	0
7/20/2022	29.77	85	Yes	-2.417	0	0	0	NM	NM	NM	-2.430	0	0	0	NM	NM	NM	-2.432	0	0	0	NM	NM	NM
9/20/2022	29.85	70	Yes	-0.130	6	0.3	0	21.1	0	0	-0.302	0	0	0	21.4	0	0	-0.156	0	0	0	18.4	0	0
12/6/2022	30.25	50	Yes	-0.200	34	1.7	0	10.9	0	0.1	-0.010	0	0	0	4.8	0.7	0.7	-0.03	0	3.6	0	14.7	0.2	0.2
3/28/2023	30.05	52	Yes	-2.430	8	0.4	0	20.6	0.4	0.6	-1.863	2	0.1	0	21.0	0.7	0.5	-1.415	2	0.1	0	20.9	0.3	0.3

Notes:
"WC - Inches of Water
"Hg - inches of mercury
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figure 3 for locations)
cfm - cubic feet per minute
N/A - not applicable
NM - not measured
% O_2 - percent oxygen
°F - degrees Fahrenheit
[1]Ambient % Ox reading of 23.5% due to inability to field calibrate GEM5000 oxygen sensor
[2]Monitoring event conducted under ambient humid conditions
[3]Monitoring point MP-3 was not accessible during last quarter monitoring

Table 2C
Comparison of OM Data - Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Golf Course Comfort Station
Ferry Point Park, Bronx, NY

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Golf Course Comfort Station																				
				MP-1							MP-2							MP-3						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
3/22/2017	30.09	59.4	Yes	-5.371	2	0.1	0	21.6	0	0	Sub-slab monitoring point MP-2 installed on August 15, 2018							Sub-slab monitoring point MP-2 installed on August 15, 2018						
6/19/2017	29.81	84	Yes	-5	2	0.1	0	20.4	0	0														
9/22/2017	29.96	75	Yes	-4.8	0	0	0	21.1	0	0														
12/20/2017[1]	29.91	65	Yes	-5.095	2	0.1	2	23.5	0.1	0.1														
3/28/2018[2]	30.07	68	Yes	-0.038	0	0	0	21.2	80	0														
6/25/2018	30.03	75	Yes	-0.09	2	0.1	2	20.7	0	0														
9/27/2018	30	60	Yes	-0.023	0	0	0	21.7	0	0	-0.67	4	0.2	0	19.4	0	0	-0.024	2	0.1	0	21.4	0	0.2
12/17-18/2018[3]	29.59-29.91	40-35	Yes	-4.777	0	0	0	19.7	0	0	-5.532	2	0.1	0.1	22.6	0	0	-4.414	2	0.1	0.1	21.9	0	0
3/15/2019	29.65	64	Yes	-5.385	0	0	0	20.3	0.5	0.6	-5.596	0	0	0	20.3	0.5	0.1	-2.63	0	0	0	20.2	0.5	0
6/13/2019	29.62	77	Yes	-3.684	>100	13.5	0	11.1	3.5	399.1	-5.607	0	0	0	21.8	0	0	-5.409	2	0.1	0	18.9	0.3	0.4
9/4/2019	29.9	80	Yes	-3.21	0	0	0	19.1	0	0	-0.02	2	0	0	17	0	0	-6.116	6	0.3	0	15.6	0	0
1/8/2020	30.01	37	Yes	-5.923	0	0	0	19.9	0	0	-6.531	0	0	0	19.9	0	0	-4.931	0	0	0	18.3	0	0
4/7/2020	29.9	53	Yes	-5.49	0	0	0	21.4	0	0	-5.719	0	0	0	21.2	0	0	-1.476	0	0	0	20	0	0
6/29/2020	29.83	75	Yes	-6.165	0	0	0	20.9	0	0	-0.79	0	0	0	20.7	0	0	-6.392	0	0	0	20.8	0	0
9/24/2020	29.98	64	Yes	-0.016	0	0	0	20.7	0	0	-0.023	0	0	0	19.3	0	0	-0.013	0	0	0	18.5	0	0
12/14/2020	29.96	40	Yes	-1.848	0	0	0	22.3	0	0	-0.934	0	0	0	21.6	0	0	-0.178	0	0	0	21.6	0	0
3/22/2021	30.35	46	Yes	-0.002	0	0	0	21.3	0	0	0.002	0	0	0	21.2	0	0	0.171	0	0	0	21.1	0	0
6/28/2021	30.19	85	Yes	-6.894	0	0	0	20.7	0	0	-6.733	0	0	0	20.3	0	0	-0.72	0	0	0	20.1	0	0
9/28/2021	29.81	71	Yes	-0.182	0	0	0	21	0	1	-0.949	0	0	0	21	0	0	-0.137	0	0	0	21	0	0
12/20/2021	30.28	28	Yes	-4.668	0	0	0	21.1	0	0	-4.643	0	0	0	20.9	0	0	-3.713	0	0	0	20.8	0	0
3/16/2022	30.2	55	Yes	-7.148	0	0	0	21.2	0	0	-7.081	0	0	0	21.1	0	0	-6.231	0	0	0	19.9	0	0
6/28/2022	30.04	67	Yes	-5.647	0	0	0	20.1	0	0	-4.922	0	0	0	19.8	0	0	-0.074	0	0	0	19.6	0	0
9/20/2022	29.85	70	Yes	-6.183	0	0	0	20.1	0	0	-6.088	0	0	0	22	0	0	-0.667	0	0	0	21.8	0	0
12/6/2022	30.25	50	Yes	-5.818	0	0	0	21	0	0	-5.845	0	0	0	21.2	0	0	-4.075	0	0	0	21.1	0	0
3/28/2023	30.05	52	Yes	-5.567	4	0.2	0	21.9	0.1	0.1	-5.580	2	0.1	0	21.8	0	0.1	-0.816	4	0.2	0	21.5	0	0.2

Notes:
"WC - Inches of Water
"Hg - inches of mercury
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figure 4 for locations)
cfm - cubic feet per minute: Due to instrumentation malfunction this reading was collected in cfm instead of WC to ensure accuracy
NM - not measured
% O_2 - percent oxygen
°F - degrees Fahrenheit
[1]Ambient % O2 reading of 23.5% due to inability to field calibrate GEM5000 oxygen sensor
[2]Monitoring event conducted under ambient humid conditions
[3]Monitoring event split between two days due to access issues. MP-1 monitored 12/18/18; MP-2 and MP-3 monitored 12/17/18

Table 2D
Comparison of OM Data - Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Golf Course Cart Storage Barn
Ferry Point Park, Bronx, NY

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Cart Storage Barn																				
				Blower Effluent							MP-1							MP-2						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
4/19/2017	30.51	55	Yes	-	-	-	-	-	-	-	-0.819	0	0	0	20.8	0	0	-0.824	0	0	0	20.9	0	0
6/19/2017	29.79	80	Yes	357-410	0	0	0	20.9	0	0	-0.916	0	0	0	20.8	0	0	-0.915	0	0	0	20.8	0	0
9/22/2017	29.93	75	Yes	300-800	2	0.1	0	20.1	0	0	-0.92	0	0	0	21.2	0	0	-0.915	0	0	0	21.1	0	0
12/20/2017[1]	29.9	45	Yes	395	2	0.1	2	23.2	0	0	-0.741	0	0	0	23.8	0	0	-0.725	0	0	0	23.8	0	0
3/28/2018	30.03	55	Yes	635	0	0	0	21.8	0	0	-0.937	0	0	0	21.1	0	0	-0.938	0	0	0	21.1	0	0
6/25/2018	30.03	70	Yes	585	2	0.1	2	20.5	0	0	-0.905	2	0.1	2	20.4	0.5	0.1	-0.911	2	0.1	2	20.4	0	0
9/27/2018	30.3	62	Yes	234	2	0.1	0	20.6	0	0	-0.76	0	0	0	21.5	0	0	-0.753	0	0	0	21.5	0	0
12/17/2018[2]	29.62	45	Yes	100	2	0.1	0	20.3	0	0	Inaccessible							Inaccessible						
2/4/2019[3]	30	55	Yes	-	-	-	-	-	-	-	Inaccessible							-0.728	0	0	0	20.6	0	0
3/15/19-4/3/2019[4]	29.80/29.90	67/63	Yes	645	0	0	0	20.3	1.1	0.6	Inaccessible							-0.853	0.5	0.1	0	20.5	0.2	0.1
6/13/2019	29.68	71	Yes	83	0	0	0	21.3	0	0	-0.946	0	0	0	21.5	0	0	-0.952	0	0	0	21.4	0	0
9/4/2019	29.94	80	Yes	39	0	0	0	20.3	0	0	-0.945	0	0	0	20.5	0	0	-0.93	0	0	0	20.7	0	0
1/8/2020	30.03	36	Yes	31	0	0	0	20.2	0	0	Inaccessible							Inaccessible						
4/7/2020	29.94	53	Yes	250-800	0	0	0	21.3	0	0	Inaccessible							Inaccessible						
6/29/2020	29.83	75	Yes	400-700	0	0	0	20.6	0	0	-0.894	0	0	0	20.9	0	0	-0.893	0	0	0	20.8	0	0
9/24/2020	29.94	64	Yes	250-400	0	0	0	20.4	0	0	-0.895	0	0	0	20.9	0	0	-0.909	0	0	0	20.9	0	0
12/15/2020	30.26	39	Yes	350-600	0	0	0	20.9	0	0	-0.937	0	0	0	21.5	0	0	-0.95	0	0	0	21.1	0	0
3/22/2021	320.38	46	Yes	350-600	0	0	0	20.5	0	0	-0.718	0	0	0	21.3	0	0	-0.726	0	0	0	21.3	0	0
6/28/2021	30.2	86	Yes	200-700	0	0	0	20.5	0	0	-0.66	0	0	0	21.2	0	0	-0.801	0	0	0	21	0	0
9/28/2021	29.81	70	Yes	250-400	0	0	0	21.3	0	0	-0.904	0	0	0	21.1	0	0	-0.906	0	0	0	21.2	0	0
12/20/2021	30.28	28	Yes	300-500	0	0	0	21.4	0	0	-0.623	0	0	0	21.1	0.1	0	-0.723	0	0	0	21	0	0
3/16/2022	30.2	55	Yes	350-600	0	0	0	21.2	0	0	-0.775	0	0	0	21.5	0	0	-0.769	0	0	0	20	0	0
6/28/2022	30.04	67	Yes	230-330	0	0	0	19.7	0	0	-0.933	0	0	0	20.4	0	0	-0.931	0	0	0	20.5	0	0
9/20/2022	29.85	70	Yes	35	0	0	0	22.3	0	0	-0.896	0	0	0	22	0	0	-0.153	0	0	0	21.8	0	0
12/6/2022	30.25	50	Yes	22.15	0	0	0	20.4	0	0	-0.764	0	0	0	20.6	0	0	-0.705	0	0	0	20.5	0	0
3/28/2023	30.05	52	Yes	0.450	2	0.1	0	21.3	0.2	0.1	-0.729	2	0.1	0	21.2	0.3	0.2	-0.678	2	0.1	0	21.1	0.3	0.2

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Cart Storage Barn													
				MP-3							MP-4						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
4/19/2017	30.51	55	Yes	-0.926	0	0	0	21.2	0	0	-0.932	0	0	0	21.1	0	0
6/19/2017	29.79	80	Yes	-0.943	0	0	0	20.7	0	0	-0.93	0	0	0	20.7	0	0
9/22/2017	29.93	75	Yes	-0.91	0	0	0	21.2	0	0	-0.905	0	0	0	21.1	0	0
12/20/2017[1]	29.9	45	Yes	-0.745	2	0.1	2	23.7	0	0	-0.731	2	0.1	2	23.6	0	0
3/28/2018	30.03	55	Yes	-0.926	0	0	0	21.2	0	0	-0.932	0	0	0	21.1	0	0
6/25/2018	30.03	70	Yes	-0.905	2	0.1	2	20.5	0	0	-0.91	2	0.1	2	20.5	0	0
9/27/2018	30.3	60	Yes	-0.756	0	0	0	21.5	0	0	-0.764	0	0	0	21.3	0	0
12/17/2018[2]	29.62	45	Yes	Inaccessible							Inaccessible						
2/4/2019[3]	30	55	Yes	Inaccessible							-0.733	0	0	0	20.8	0	0
3/15/19-4/3/2019[4]	29.80/29.90	67/63	Yes	Inaccessible							-0.834	0.5	0.1	0	20.6	0.1	0.1
6/13/2019	29.68	71	Yes	-0.948	0	0	0	21.3	0	0	-0.944	0	0	0	21.4	0	0
9/4/2019	29.94	80	Yes	-0.929	0	0	0	20.5	0	0	-0.943	0	0	0	20.5	0	0
1/8/2020	30.03	36	Yes	Inaccessible							Inaccessible						
4/7/2020	29.94	53	Yes	-0.905	0	0	0	21.5	0.1	0	-0.908	0	0	0	21.3	0.1	0
6/29/2020	29.83	75	Yes	-0.894	0	0	0	20.9	0	0	-0.894	0	0	0	20.9	0	0
9/24/2020	29.94	64	Yes	-0.904	0	0	0	20.9	0	0	-0.896	0	0	0	20.9	0	0
12/15/2020	30.26	39	Yes	-0.929	0	0	0	20.9	0	0	-0.985	0	0	0	20.5	0	0
3/22/2021	30.38	46	Yes	-0.733	0	0	0	21.6	0	0	-0.73	0	0	0	21.5	0	0
6/28/2021	30.2	86	Yes	-0.011	0	0	0	20.9	0	0	-0.013	0	0	0	21	0	0
9/28/2021	29.81	70	Yes	-0.888	0	0	0	21.2	0	0	-0.898	0	0	0	21.2	0	0
12/20/2021	30.28	28	Yes	Inaccessible							-0.718	0	0	0	21	0	0
3/16/2022	30.2	55	Yes	-0.861	0	0	0	20.9	0	0	-0.733	0	0	0	21.5	0	0
6/28/2022	30.04	67	Yes	-0.904	0	0	0	20.5	0	0	-0.929	0	0	0	20.5	0	0
9/20/2022	29.85	70	Yes	-0.907	0	0	0	22.4	0	0	-1.11	0	0	0	22.3	0	0
12/6/2022	30.25	50	Yes	Inaccessible							-0.781	0	0	0	20.2	0	0
3/28/2023	30.05	52	Yes	-0.717	2	0.1	0	21.3	0.5	0.3	-0.721	2	0.1	0	21.4	0.6	0.2

Notes:
"WC - Inches of Water
"Hg - inches of mercury
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figure 5 for locations)
cfm - cubic feet per minute
NM - not measured
% O_2 - percent oxygen
°F - degrees Fahrenheit
[1]Ambient % O2 reading of 23.5% due to inability to field calibrate GEM5000 oxygen sensor
[2]Sub-Slab monitoring points all inaccessible due to golf carts being stored for winter
[3]Only Subslab monitoring points MP-2 and MP-4 were accessible during remobilization on 2/4/2019
[4]Blower was accessible on 3/15/2019. Only Subslab monitoring points MP-2 and MP-4 were accessible during remobilization on 4/3/2019

Table 2E
Comparison of OM Data - Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Golf Course Clubhouse
Ferry Point Park, Bronx, NY

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Golf Course Clubhouse Building																										
				MP-1							MP-2							MP-3							MP-4						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
6/7/2018[1]	30.1	70	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/27/2018	29.94	55	Yes	-1.555	0	0	0	20.4	0.8	0.7	-	-	-	-	-	-	-	-0.247	0	0	0	16	0.1	0	-1.494	0	0	0	21.1	0.3	0.1
12/17/2018	29.73	45	Yes	-1.187	0	0	0	20.3	0	0	-	-	-	-	-	-	-	-1.749	0	0	0	17	0	0	-1.133	0	0	0	20.7	0	0
3/15/2019	29.63	62	Yes	-1.174	0	0	0	20.3	1	1	-	-	-	-	-	-	-	-0.593	0	0	0	18.4	1.2	1.4	-1.099	0	0	0	20	1.4	1.6
6/13/2019	29.78	88	Yes	-1.322	0	0	0	21.1	0	0	-	-	-	-	-	-	-	-0.013	0	0	0	21.4	0	0	-1.226	0	0	0	21.2	0	0.2
9/4/2019	29.97	28	Yes	-1.338	0	0	0	20.5	0	0	-	-	-	-	-	-	-	-1.476	0	0	0	20	20	0	-1.286	0	0	0	20.4	0	0
1/8/2020	30.03	35	Yes	-1.121	0	0	0	20	0	0.1	-	-	-	-	-	-	-	-0.965	0	0	0	19.6	0	0.1	-1.061	0	0	0	19.9	0	0.4
4/7/2020	29.97	53	Yes	-1.145	8	0.4	0	18.2	0	0	-	-	-	-	-	-	-	0.325/0.237/0.069[2]	0	0	0	20.7	0	0	-1.063	0	0	0	20.9	0	0
6/29/2020	29.83	70	Yes	-1.236	0	0	0	18.7	0	0	-	-	-	-	-	-	-	-0.041	0	0	0	19.2	0	0	-1.155	0	0	0	20.5	0	0
9/24/2020	29.94	64	Yes	-1.257	0	0	0	19.8	0	0	-	-	-	-	-	-	-	-0.023	0	0	0	20.3	0	0	-1.153	0	0	0	20.8	0	0
12/15/2020	30.26	39	Yes	-1.27	0	0	0	21	0	0	-	-	-	-	-	-	-	-0.519	0	0	0	20.8	0	0	-1.102	0	0	0	21.5	0	0
3/22/2021	30.32	46	Yes	-0.89	0	0	0	18.9	0	0	-	-	-	-	-	-	-	0.008	0	0	0	21.4	0	0	-0.948	0	0	0	21.4	0	0
6/28/2021	30.19	78	Yes	-0.88	18	0.9	0	17.9	0	0	-	-	-	-	-	-	-	0.159	0	0	0	20.8	0	0	-0.617	0	0	0	20.7	0	0
9/28/2021	29.81	72	Yes	-0.704	18	0.9	0	21.2	0	0	-	-	-	-	-	-	-	-0.005	0	0	0	21.1	0	0	-0.381	0	0	0	21	0	0
12/20/2021	30.29	28	Yes	-0.606	8	0.4	0	20.6	0	0	-	-	-	-	-	-	-	-0.006	0	0	0	21.7	0	0	-0.264	0	0	0	21.5	0	0
3/16/2022	30.2	55	Yes	-0.591	0	0	0	20	0	0	-	-	-	-	-	-	-	-0.168	0	0	0	20.3	0	0	-0.169	0	0	0	20.5	0	0
3/31/2022	30.56	29	Yes	-0.586	0	0	0	21.8	0	0	-0.022	0	0	0	21.9	0	0	-0.015	0	0	0	19.9	0	0	-0.17	0	0	0	21.6	0	0
6/28/2022	30.04	67	Yes	-0.6	14	0.7	0	16.3	0	0	-0.003	0	0	0	20.2	0	0	-0.001	0	0	0	20.2	0	0	-0.147	0	0	0	20.3	0	0
7/20/2022	29.77	85	Yes	NM	NM	NM	NM	NM	NM	NM	-0.073	NM	NM	NM	NM	NM	NM	-0.638	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/20/2022	29.85	70	Yes	-0.063	0	0	0	22.7	0	0	-0.011	0	0	0	23.2	0	0	-0.513	0	0	0	23.4	0	0	-0.162	0	0	0	23.5	0	0
12/6/2022	30.25	50	Yes	-0.42	14	0.7	0	18.5	0	0	0.04	0	0	0	21	0	0	-0.818	0	0	0	20.4	0	0	-0.13	0	0	0	20.9	0	0
3/28/2023	30.05	52	Yes	-0.427	2	0.1	0	21.5	0.2	0.1	-0.002	2	0.1	0	21.3	0.1	0.4	-2.55	2	0.1	0	20.9	0.2	0.4	-0.063	2	0.1	0	21.1	0.1	0.2

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Golf Course Clubhouse Building																										
				MP-5							MP-6							MP-7							MP-8						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
6/7/2018[1]	30.1	70	Yes	-1.149	NM	NM	0	NM	0	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/27/2018	29.94	55	Yes	-0.033	0	0	0	21.2	0	0	-1.587	0	0	0	21	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-
12/17/2018	29.73	45	Yes	-0.014	0	0	0	20.6	0	0	-1.217	0	0	0	20.6	0	0	-	-	-	-	-	-	-	-1.131	0	0	0	20.4	0	0
3/15/2019	29.63	62	Yes	-0.009	0	0	0	19.4	1.8	1.8	-1.185	0	0	0	20.2	1.8	1.8	-	-	-	-	-	-	-	-1.084	0	0	0	20	1.4	1.4
6/13/2019	29.78	88	Yes	-0.018	0	0	0	21.1	0	0.3	-1.312	0	0	0	21.1	0	0	-	-	-	-	-	-	-	-1.195	0	0	0	21.2	0	0
9/4/2019	29.97	78	Yes	-0.019	0	0	0	20.6	0	0	-1.319	0	0	0	20.7	0	0	-1.341	0	0	0	20.4	6	0	-1.271	0	0	0	20.5	0	0
1/8/2020	30.03	35	Yes	-0.02	0	0	0	20	0	0.4	-1.196	0	0	0	20.3	0	0	-1.201	0	0	0	19.7	0.1	0.2	-1.092	0	0	0	19.7	0	0
4/7/2020	29.97	53	Yes	-0.005	0	0	0	20.7	0	0	-1.21	0	0	0	20.6	0	0	-1.137	0	0	0	20.6	0	0	-1.062	0	0	0	20.7	0	0
6/29/2020	29.83	70	Yes	-0.002	0	0	0	20.8	0	0	-1.305	0	0	0	20.9	0	0	-1.1223	0	0	0	20.6	0	0	-1.138	0	0	0	20.6	0	0
9/24/2020	29.94	64	Yes	-0.01	0	0	0	20.8	0	0	-1.304	0	0	0	20.7	0	0	-1.237	0	0	0	20.7	0	0	-1.144	0	0	0	20.7	0	0
12/15/2020	30.26	39	Yes	-0.027	0	0	0	20.8	0	0	-1.296	0	0	0	20.7	0	0	-1.261	0	0	0	21.2	0	0	-1.237	0	0	0	21.1	0	0
3/22/2021	30.32	46	Yes	-0.001	0	0	0	21.4	0	0	-0.679	0	0	0	21.4	0	0	-0.872	0	0	0	21.4	0	0	-0.675	0	0	0	21.4	0	0
6/28/2021	30.19	78	Yes	-0.902	0	0	0	21	0	0	-0.876	0	0	0	20.8	0	0	-0.869	0	0	0	21	0	0	-0.571	0	0	0	20.8	0	0
9/28/2021	29.81	72	Yes	-0.014	0	0	0	21.1	0	0	-0.761	0	0	0	21.2	0	0	-0.858	0	0	0	21.1	0	0	-0.266	0	0	0	21.2	0	0
12/20/2021	30.29	28	Yes	-0.009	0	0	0	21.1	0	0	-0.629	0	0	0	21.1	0	0	-0.587	0	0	0	20.9	0	0	-0.222	0	0	0	21.2	0	0
3/16/2022	30.2	55	Yes	-0.019	0	0	0	20.7	0	0	-0.719	0	0	0	20.5	0	0	-0.594	0	0	0	21	0	0	-0.23	0	0	0	20.3	0	0
3/31/2022	30.56	29	Yes	-0.022	0	0	0	20.8	0	0	-0.75	0	0	0	21.2	0	0	-0.538	0	0	0	20.8	0	0	-0.217	0	0	0	21.2	0	0
6/28/2022	30.04	67	Yes	0	0	0	0	20.3	0	0	-0.59	0	0	0	20.3	0	0	-0.556	0	0	0	20.3	0	0	-0.168	0	0	0	20.4	0	0
7/20/2022	29.77	85	Yes	-2.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/20/2022	29.85	70	Yes	-0.004	0	0	0	23.1	0	0	-0.664	0	0	0	23.1	0	0	-0.601	0	0	0	23.1	0	0	-0.151	0.1	0	0	23.5	0	0
12/6/2022	30.25	50	Yes	0.07	0	0	0	21.1	0	0	-0.455	0	0	0	21.1	0	0	-0.395	0	0	0	21.1	0	0	-0.142	0	0	0	20.8	0	0
3/28/2023	30.05	52	Yes	-0.003	2	0.1	0	21.7	0.1	0.4	-0.439	4	0.2	0	22.0	0.1	0.3	-0.406	4	0.2	0	22.0	0.1	0.2	-0.055	2	0.1	0	20.9	0.3	0.4

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Golf Course Clubhouse Building												
				MP-9							MP-10					
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
6/7/2018[1]	30.1	70	Yes	-	-	-	-	-	-	-	-1.491	NM	NM	0	NM	0	NM
9/27/2018	29.94	55	Yes	-1.485	0	0	0	21	0	0							
12/17/2018	29.73	45	Yes	-1.115	0	0	0	20.3	0	0	-1.124	0	0	0	20.5	0	0
3/15/2019	29.63	62	Yes	-1.095	0	0	0	19.4	1.5	1.6	-1.087	0	0	0	19.9	1.5	1.6
6/13/2019	29.78	88	Yes	-1.157	0	0	0	21.2	0.1	0.1	-1.183	0	0	0	21.2	0	0
9/4/2019	29.97	78	Yes	-1.253	0	0	0	20.4	0	0	-1.258	0	0	0	20.5	0	0
1/8/2020	30.03	35	Yes	-1.049	0	0	0	19.6	0	0.2	-1.089	0	0	0	19.8	0	1.5
4/7/2020	29.97	53	Yes	-1.03	0	0	0	20.6	0	0	-1.057	0	0	0	20.6	0	0
6/29/2020	29.83	70	Yes	-1.116	0	0	0	20.5	0	0	-1.1201	0	0	0	20.3	0	0
9/24/2020	29.94	64	Yes	-1.115	0	0	0	20.6	0	0	-1.125	0	0	0	20.5	0	0
12/15/2020	30.26	39	Yes	-1.084	0	0	0	21.5	0	0	-1.197	0	0	0	21.4	0	0
3/22/2021	30.32	46	Yes	-0.506	0	0	0	21.4	0	0	-0.694	0	0	0	20.9	0	0
6/28/2021	30.19	78	Yes	-0.578	0	0	0	20.5	0	0	-0.58	0	0	0	19.7	0	0
9/28/2021	29.81	72	Yes	-0.246	0	0	0	21	0	0	-0.381	0	0	0	21.3	0	0
12/20/2021	30.29	28	Yes	-0.19	0	0	0	21.3	0	0	-0.192	0	0	0	21.4	0	0
3/16/2022	30.2	55	Yes	-0.187	0	0	0	20.2	0	0	-0.199	0	0	0	21	0	0
3/31/2022	30.56	29	Yes	-0.159	0	0	0	21.3	0	0	-0.22	0	0	0	21.2	0	0
6/28/2022	30.04	67	Yes	-0.14	0	0	0	20.3	0	0	-0.128	0	0	0	20.3	0	0
7/20/2022	29.77	85	Yes	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/20/2022	29.85	70	Yes	-0.013	0	0	0	23.4	0	0	-0.11	0	0	0	23.4	0	0
12/6/2022	30.25	50	Yes	-0.125	0	0	0	20.7	0	0	-0.1	0	0	0	20.1	0	0
3/28/2023	30.05	52	Yes	-0.056	2	0.1	0	20.9	0.2	0.2	-0.069	2	0.1	0	21.0	0.2	0.3

Notes:
"WC - Inches of Water
"Hg - inches of mercury
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figure 6 for locations)
cfm - cubic feet per minute
NM - not measured
% O_2 - percent oxygen
°F - degrees Fahrenheit
[1] System only partially installed
[2]Data Collected from three separate Site Visits: April 7, 2020 = +0.325; April 28, 2020 = +0.237 ; May 12, 2020 = -0.069

July 17, 2023
Project 2204594

Geotechnical
Environmental
Water Resources
Ecological

VIA EMAIL: samantha.catalanotto@parks.nyc.gov

Ms. Samantha Catalanotto
Environmental Project Manager
Capital Projects – Environmental Remediation Unit
New York City Department of Parks & Recreation
Olmsted Center
117-02 Roosevelt Avenue
Corona, NY 11368

Re: Quarterly Sub-Slab Depressurization System (SSDS) Monitoring - Quarter 2, 2023
Ferry Point Park Golf Course
NYSDEC Permit No. 2-6006-00014/00013
Bronx, NY

Dear Ms. Catalanotto:

GEI Consultants, Inc. (GEI) has prepared the following report on behalf of the New York City Department of Parks & Recreation (NYCDPR) to document the SSDS infrastructure monitoring event conducted on June 26, 2023, at the Ferry Point Park Golf Course and Community Park. Quarterly sub-slab depressurization (SSD) and combustible gas (CG) monitoring system operations, maintenance, and monitoring (OM&M) is performed in compliance with the NYSDEC Permit No. 2-6006-00014/00013, the October 2013 *Post Construction Custodial Care Plan*, the October 2013 *Landfill Gas Management Plan*, and the site-specific OM&M Manual.

The following locations are included in the SSDS and/or CG OM&M:

- Community Park Comfort Station (CPCS);
- Golf Course Maintenance Building (Maintenance Building):
- Golf Course Comfort Station (GCCS);
- Golf Course Cart Storage Barn (Cart Barn); and
- Golf Course Clubhouse (Clubhouse).

GEI Consultants, Inc.
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212.687.8282

Summary of OM&M Inspection Activities

SSD and CG monitoring systems OM&M activities included visual inspections and collection of oxygen, organic vapor, and methane (percent methane by volume, percent lower explosive limit [LEL]) readings from beneath the building slabs. In locations with sub-slab monitoring points, sub-slab pressure was measured to determine if the SSDS is creating a negative pressure beneath the structures. The location of on- and off-Site buildings with SSD and CG systems are depicted on Figure 1, and the system layout and components for each building are depicted on Figure 2 through 6.

OM&M Observations and Results

Community Park Comfort Station (CPCS)

OM&M was performed at the CPCS on June 26, 2023, which included the collection of sub-slab pressure CG readings, inspection of the SSDS to verify it was operational, as well as a review of the real-time data at the CG sensor. Table 1 contains a summary of the OM&M visit results, with historical data presented on Table 2A. Below is a summary of the observations made during the CPCS monitoring event:

- The SSD and CG systems were operational during, and prior to, the Q2 monitoring event;
- The combustible gas data logging system was online, operational and transmitting data to the central datalogging panel, registering the ambient readings of 0.0% LEL;
- Low levels of volatile organic compounds (VOCs) were detected within and under the building;
- No methane was detected under the building;
- Sub-slab pressure measurements collected from the sub-slab monitoring points (Figure 2) during the Q2 monitoring event indicated that the SSDS was generating negative pressure beneath the building slab. The pressure gradient was positive during the last three quarterly reports; the Q2 2023 reading was greater than previous negative pressure readings in the building. No methane was detected at MP-1, compared to 0.1% detected in Q1 2023.

Golf Course Maintenance Building (Maintenance Building)

OM&M performed at the Maintenance Building included the inspection of the SSDS to verify it was operational, collection of sub-slab pressure CG readings, and

review of the real-time data at the CG sensor. A summary of the Q2 monitoring results is presented on Table 1, with historical data presented on Table 2B. Below is a summary of the observations denoted at the Maintenance Building during the OM&M event:

- The SSD and CG systems were operational during, and prior to, the Q2 monitoring event;
- The combustible gas data logging system was online, operational and transmitting data to the central datalogging panel, registering the ambient readings of 0.0% LEL;
- Low levels of volatile organic compounds (VOCs) were detected within and under the Maintenance Building;
- No methane was detected under the building;
- Sub-slab pressure measurements collected from the sub-slab monitoring points (Figure 3) during the Q2 monitoring event indicated that the SSDS was generating negative pressure beneath the building slab. The negative pressure was greater than Q1 2023, and similar to that of July 2022. The methane LEL detected at MP-1 through MP-3 was lesser than that of Q1 2023.

Golf Course Comfort Station (GCCS)

GCCS monitoring included the review of the real-time data at the CG sensor, the inspection of the SSDS to verify it was operational, and collection of sub-slab pressure CG readings. Table 1 contains a summary of the OM&M visit results, with historical data presented on Table 2C. Below is a summary of the observations made at the GCCS during the OM&M event:

- The SSD and CG systems were operational prior to and during the Q2 monitoring event;
- The combustible gas data logging system was online, operational and transmitting data to the central datalogging panel, registering the ambient readings of 0.0% LEL;
- Low levels of volatile organic compounds (VOCs) were detected within and under the building;
- No methane was detected under the station;

- Sub-slab pressure measurements collected from the three sub-slab monitoring points (Figure 4) during the Q2 monitoring event indicated that the SSDS is generating negative pressure beneath the slab. The vacuum pressure recorded at MP-1 through MP-3 was significantly lower than that of Q1 2023, however they are consistent with historical data.

Golf Course Cart Storage Barn (Cart Barn)

OM&M performed at the Cart Barn included the inspection of the SSDS to verify it was operational, collection of sub-slab pressure CG readings, and review of the real-time data at the CG sensor. A summary of the Q2 monitoring results is presented on Table 1, with historical data presented on Table 2D. Below is a summary of the observations made during the OM&M event at the Cart Barn:

- The SSD and CG systems were operational during, and prior to, the Q2 monitoring event;

- The combustible gas data logging system was online, operational and transmitting data to the central datalogging panel, registering the ambient readings of 0.0% LEL;

- Low levels of volatile organic compounds (VOCs) were detected within and under the building;

- No methane was detected under the Cart Barn;

- Sub-slab pressure measurements collected from MP-1, MP-3 and MP-4 sub-slab monitoring points (Figure 5) during the Q2 monitoring event indicated that the SSDS was generating a negative pressure beneath the building slab, consistent with historical data. MP-2 displayed a positive pressure gradient, dissimilar to previous collection events. Oxygen was also abnormally low, (detected at 1.8% compared to 21.1% in Q1 2023) possibly associated with the positive pressure gradient. The flow pressure measured at the blower continues to be lower than historical OM&M events, similar to Q1 2023.

Golf Course Clubhouse (Clubhouse)

The Clubhouse OM&M event included the review of the real-time data at the CG sensor, the inspection of the SSDS to verify it was operational, and collection of sub-slab pressure CG readings. Table 1 contains a summary of the OM&M visit results, with historical data presented on Table 2E. Below is a summary of the observations made at the Clubhouse during the monitoring event:

- The SSD and CG systems were operational prior to and during the Q2 monitoring event;
- The combustible gas data logging system was online, operational and transmitting data to the central datalogging panel, registering the ambient readings of 0.0% LEL;
- Low levels of volatile organic compounds (VOCs) were detected within and under the building at all ten monitoring point locations;
- No methane was detected underneath the Clubhouse;
- Sub-slab pressure measurements collected from eight of the ten sub-slab monitoring points (Figure 6) during the Q2 monitoring event indicated that the SSDS is generating negative pressure beneath the slab, consistent with measurements collected during previous events. MP-3 and MP-5 displayed positive pressure gradients, which has occurred in previous monitoring events.

Conclusions and Recommendations

From the Quarter 2 OM&M event, the results confirm that the SSD and GC systems are operational. Sub-slab pressure readings collected from the on- and off-Site monitoring points indicated that the SSDS in the Golf Course Comfort Station, Community Park Comfort Station, Golf Course Cart Storage Barn, Golf Course Maintenance Building and Golf Course Clubhouse are creating a negative pressure gradient beneath the building slabs. Certain monitoring points did not demonstrate negative pressure conditions; however, other monitoring points within the buildings were displaying negative pressures and only low levels of volatile organic compounds (VOCs) were detected within the buildings.

All CG sensors were communicating with their respective control panels and registered ambient methane readings of 0.0% LEL. The main datalogging panel, located in the Golf Course Maintenance Building, is receiving data from the Golf Course Cart Barn, Golf Course Clubhouse, Community Park and Golf Course Comfort Stations, and Golf Course Maintenance Building. Combustible gas data is accessed remotely, reviewed and downloaded periodically. Methane readings from the CG sensor data are monitored and downloaded periodically, and no alarm conditions have been registered.

If you have any questions, please feel free to contact me at (347) 514–3861.

Sincerely,

GEI CONSULTANTS, INC.

Stacey Ng, P.G
Project Manager

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c: K. Zias, NYCDPR
K. McCarty, GEI

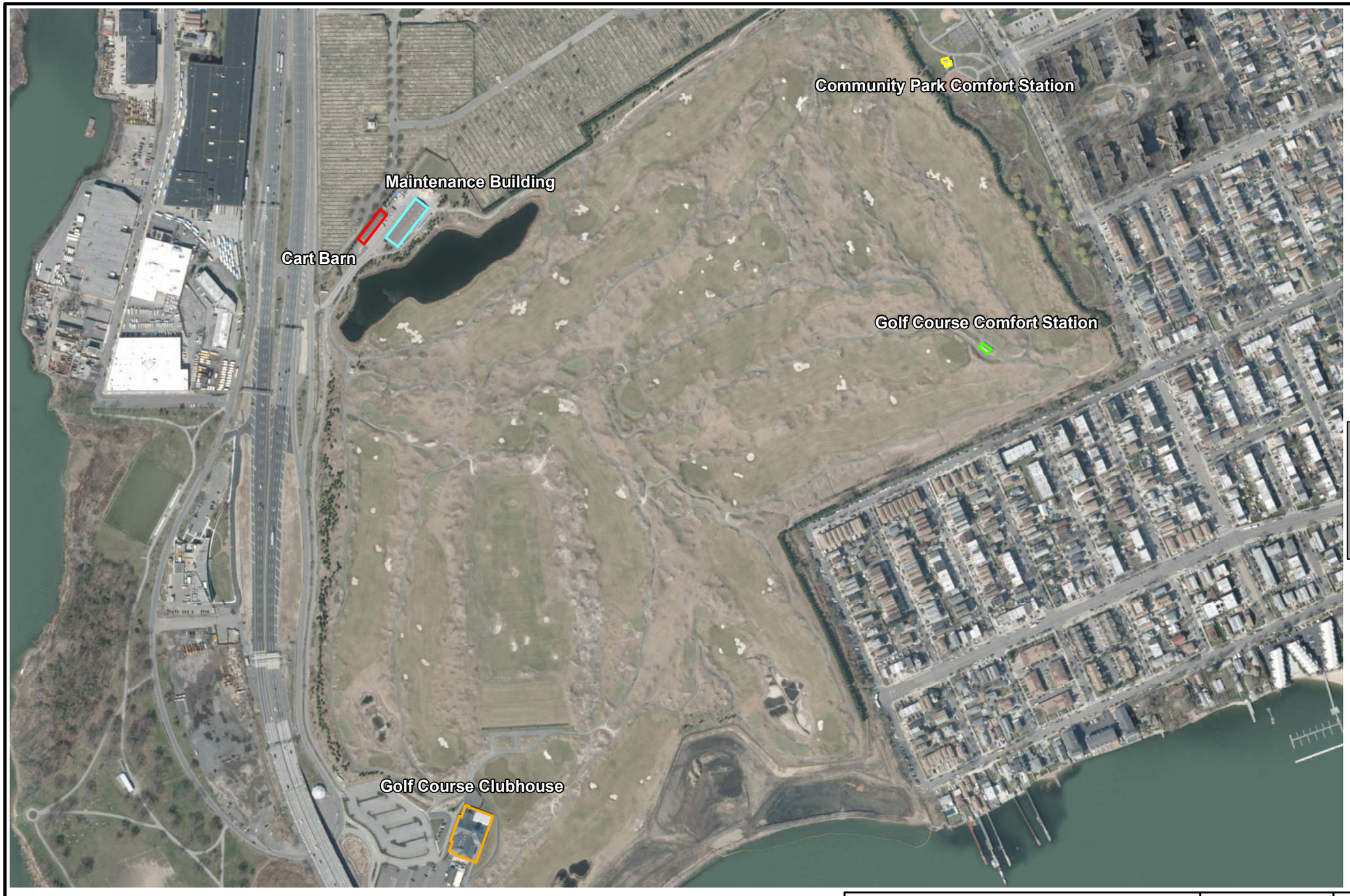

LEGEND

- Cart Barn
- Golf Course Comfort Station
- Maintenance Building
- Golf Course Clubhouse
- Community Park Comfort Station

SOURCE:
1. ESRI IMAGERY BASE MAP

0 300 600
SCALE: 1 " = 409 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

GEI Consultants

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SSD AND CG SYSTEM

Fig. 1

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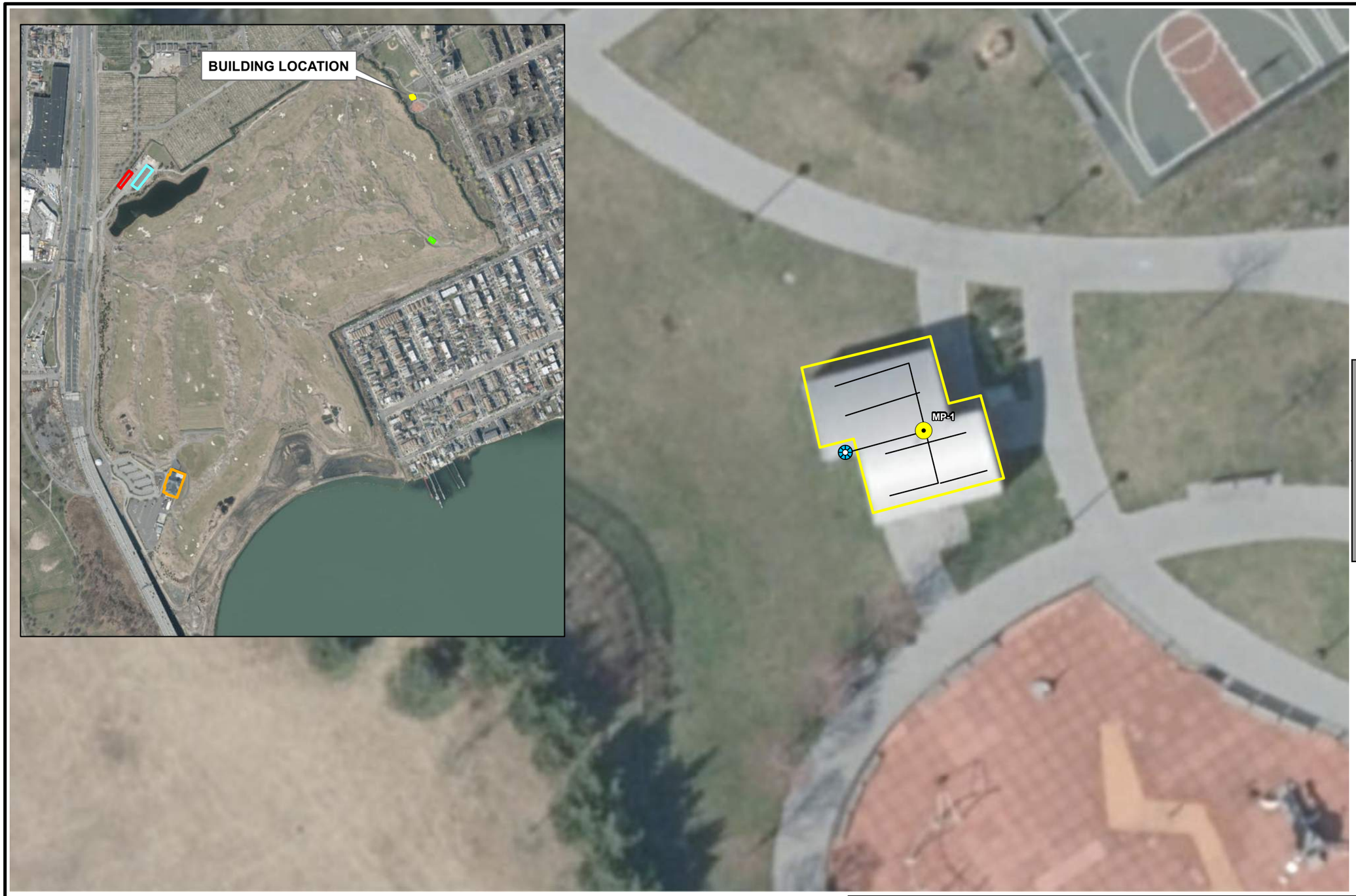

LEGEND

- Vertical Riser with Sampling Point
- Sub-Slab Monitoring Point
- SSDS Piping
- Cart Barn
- Golf Course Comfort Station
- Maintenance Building
- Golf Course Clubhouse
- Community Park Comfort Station

SOURCE:
1. ESRI IMAGERY BASE MAP

0 10 20
SCALE:1 " = 20 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

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COMMUNITY PARK
COMFORT STATION

Fig. 2

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LEGEND

- CG Control Panel
- Combustible Gas Meter
- Sub-Slab Depressurization Pit
- Sub-Slab Monitoring Point
- Vertical Riser
- SSDS Piping
- Cart Barn
- Golf Course Comfort Station
- Maintenance Building
- Golf Course Clubhouse
- Community Park Comfort Station

SOURCE:
1. ESRI IMAGERY BASE MAP

0 10 20
SCALE: 1 " = 27 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

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MAINTENANCE BUILDING

Fig. 3

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LEGEND

- Controller
- Exterior SSDS Monitoring Point
- Interior SSDS Monitoring Point
- Methane and H2S Sensor
- Methane Sensor
- 6" PVC
- Sub-Slab Depressurization Pit
- SSDS Piping
- Maintenance Building
- Cart Barn
- Golf Course Comfort Station
- Community Park Comfort Station
- Golf Course Clubhouse

SOURCE:
1. ESRI IMAGERY BASE MAP

0 6 12
SCALE: 1 " = 10 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

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GOLF COURSE COMFORT STATION

Fig. 4

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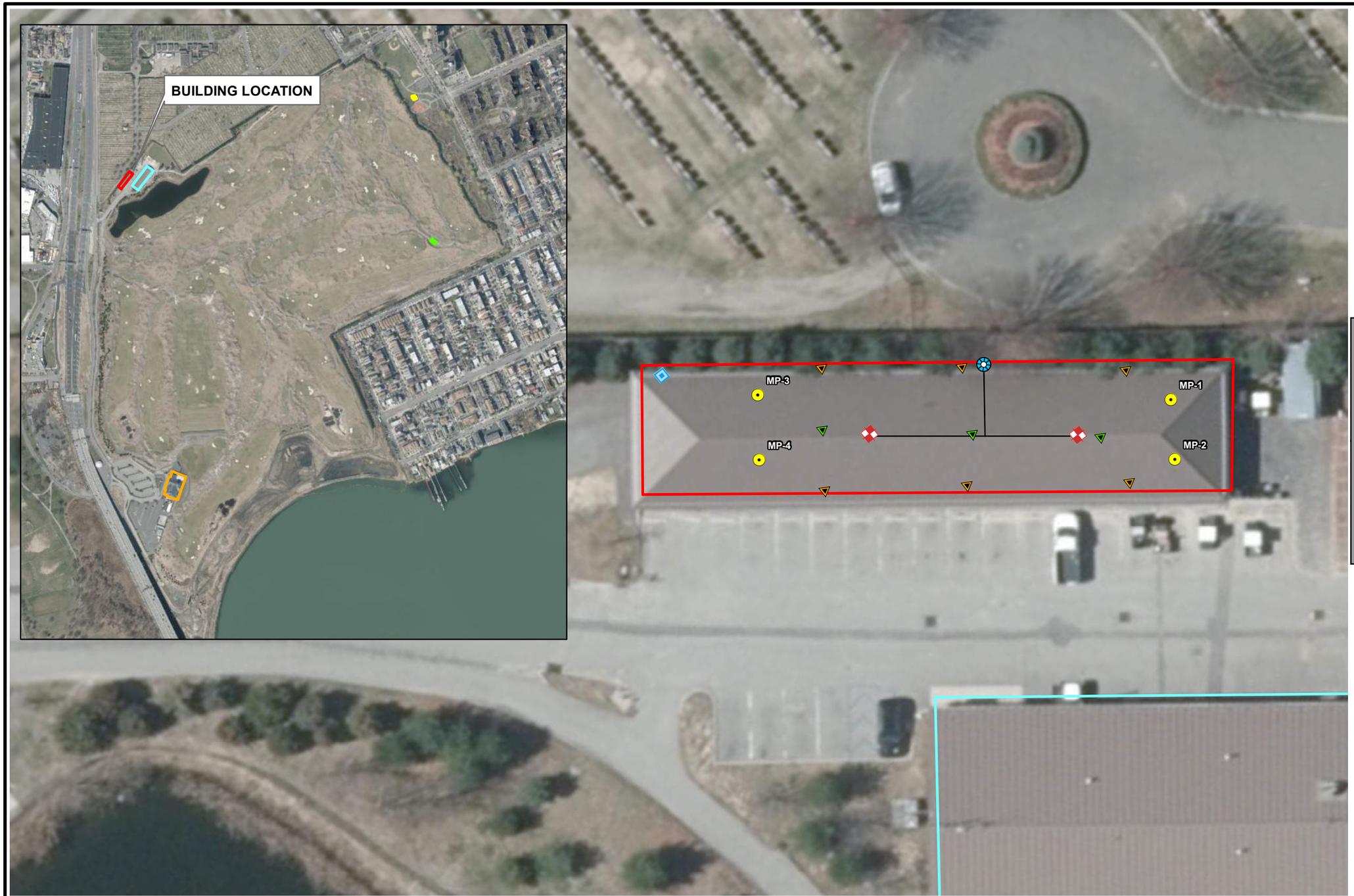

LEGEND

- Second Floor Combustible Gas (CG) Sensor
- First Floor CG Sensor
- Controller
- Vertical Riser
- Sub-Slab Depressurization Pit
- Sub-Slab Monitoring Point
- SSDS Piping
- Cart Barn
- Golf Course Comfort Station
- Maintenance Building
- Golf Course Clubhouse
- Community Park Comfort Station

SOURCE:
1. ESRI IMAGERY BASE MAP

0 10 20
SCALE: 1 " = 26 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
Queens, NY

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CART BARN

Fig. 5

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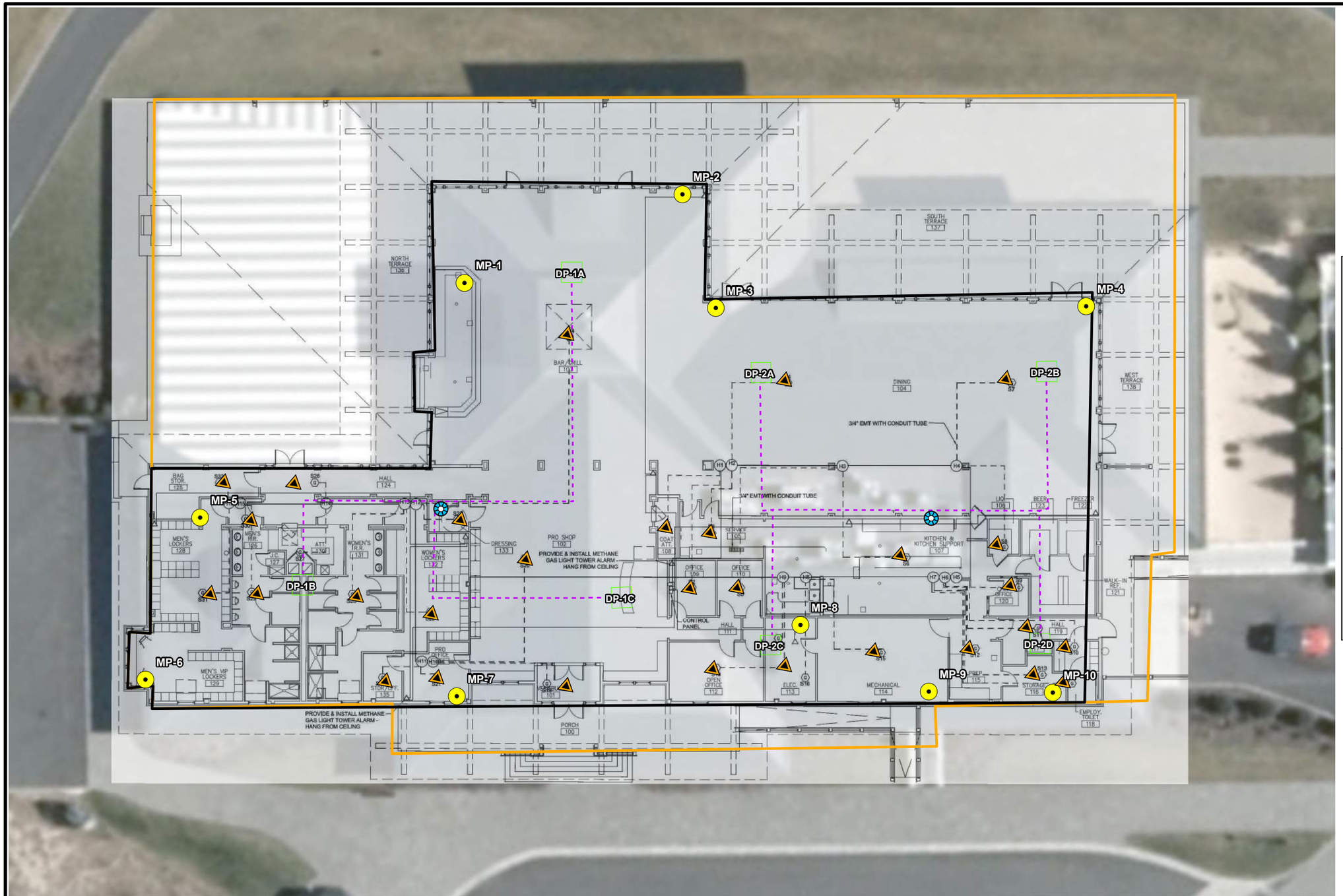

LEGEND

- Gas Sensor
- Suction Fan Vertical Riser
- Sub-Slab Monitoring Point
- SSDS Piping
- Depressurization Pit
- Maintenance Building
- Community Park Comfort Station
- Cart Barn
- Golf Course Comfort Station
- Interior Clubhouse
- Golf Course Clubhouse

SOURCE:
1. ESRI IMAGERY BASE MAP

0 10 20
SCALE: 1 " = 20 '

Ferry Point Park
Bronx, New York
Sub-Slab Depressurization System Monitoring

New York City Department of Parks & Recreation (NYCDPR)
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GOLF COURSE CLUBHOUSE

Fig. 6

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Table 1
Summary of 2023 Q2 OM Data - Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Ferry Point Park, Bronx, NY

Sub-slab Depressurization (SSD) and Combustible Gas (CG) System Status	Community Park Comfort Station	Golf Course Maintenance Building			Golf Course Comfort Station			Cart Storage Barn					Golf Course Clubhouse Building									
Date	6/26/2023	6/26/2023			6/26/2023			6/26/2023					6/26/2023									
SSD System	Operational	Operational			Operational			Operational					Operational									
CG System	Operational	Operational			Operational			Operational					Operational									
CG System Alarm Status	No Alarm Conditions	No Alarm Conditions			No Alarm Conditions			No Alarm Conditions					No Alarm Conditions									
SSD/CG System OM&M Data	**MP-1**	**MP-1**	**MP-2**	**MP-3**	**MP-1**	**MP-2**	**MP-3**	**Blower**	**MP-1**	**MP-2**	**MP-3**	**MP-4**	**MP-1**	**MP-2**	**MP-3**	**MP-4**	**MP-5**	**MP-6**	**MP-7**	**MP-8**	**MP-9**	**MP-10**
Pressure ("WC)	-0.093	-2.436	-2.430	-2.293	-3.639	-3.721	-0.012	0.008	-0.903	0.007	-0.896	-0.919	-0.494	-0.016	0.375	-0.881	0.007	-0.434	-0.462	-0.051	-0.061	-0.066
LEL (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Methane By Volume (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ambient LEL (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oxygen (%)	21.9	21.6	21.6	1.5	21.7	21.8	21.9	21.7	21.5	1.8	21.7	21.7	21.9	22.0	22.0	22.2	22.0	22.0	22.0	21.5	20.6	21.9
Maximum Ambient PID (ppm)	0.2	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.2	0.1
Sub-Slab PID (ppm)	0.3	0.3	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.3	0.1	0.2	0.2	0.2	0.1

Notes:
"WC - Inches of Water
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figures 2 through 5 for locations)
cfm - cubic feet per minute
N/A - not applicable
NM - not measured
IA - inaccessible
*No pressure reading in blower however flow reading provided in cubic feet per minute (cfm)

Table 2A
Comparison of OM Data
Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Community Park Comfort Station
Ferry Point Park, Bronx, NY

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Community Park Comfort Station						
				MP-1						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
3/22/2017	30.14	37	Yes	Sub-slab monitoring point MP-1 installed on August 15, 2018						
6/19/2017	29.78	84	Yes							
9/22/2017	29.98	75	Yes							
12/20/2017[1]	29.84	45	Yes							
3/28/2018	30.04	50	Yes							
6/25/2018	30.03	70	Yes							
9/27/2018 and 10/3/2018	30.03	60	Yes	-0.14	0	0	0	21.3	0	0
12/17-18/2018[2]	29.62-29.94	45-35	Yes	0.003[3]	0	0	0	20.6	0	0
2/4/2019[4]	30	55	Yes	-0.012	0	0	0	20.7	0	0
3/14/2019	30.07	48	Yes	-0.009	0	0	0	20.7	0	0
6/27/2019	30.11	79	Yes	-0.013	0	0	0	19.7	0.2	0.7
9/4/2019	29.94	75	Yes	-0.018	0	0	0	20.5	0	0
1/8/2020	30.03	35	Yes	-0.009	0	0	0	20.3	0	0.1
4/28/2020	30.15	45	Yes	-0.003	0	0	0	21.3	0.1	0.1
6/29/2020	29.83	75	Yes	-0.03	0	0	0	20.7	0	0
9/24/2020	29.95	64	Yes	-0.067	0	0	0	20.9	0	0
12/14/2020	29.96	40	Yes	-0.011	0	0	0	21.5	0	0
3/22/2021	30.37	46	Yes	-0.004	0	0	0	22	0	0
6/28/2021	30.29	78	Yes	0.002	0	0	0	20.4	0.4	0.4
9/28/2021	29.81	71	Yes	-0.004	0	0	0	21.2	0	0
12/20/2021	30.29	27	Yes	-0.009	0	0	0	21.1	0	0
3/16/2022	30.2	55	Yes	-0.024	0	0	0	21.1	0	0
6/28/2022	30.04	67	Yes	-0.06	0	0	0	20.6	0	0
9/20/2022	29.85	70	Yes	0.06	0	0	0	22.2	0	0
12/6/2022	30.25	50	Yes	0.123	0	0	0	21	0	0
3/28/2023	30.05	52	Yes	0.012	2	0.1	0	21.6	0.1	0.2
6/26/2023	29.78	73	Yes	-0.093	0	0	0	21.9	0.2	0.3

Notes:
"WC - Inches of Water
"Hg - inches of mercury
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figure 2 for locations)
cfm - cubic feet per minute
N/A - not applicable
% O_2 - percent oxygen
°F - degrees Fahrenheit
[1]Ambient % Ox reading of 23.5% due to inability to field calibrate GEM5000 oxygen sensor
[2]Monitoring event split between two days due to access issues
[3]Vacuum fluctuated between +0.024 to -0.018. Average = +0.003
[4]Recheck to see if Vacuum is generating negative pressure at MP-1

Table 2B
Comparison of OM Data - Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Golf Course Maintenance Building
Ferry Point Park, Bronx, NY

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Golf Course Maintenance Building																				
				MP-1							MP-2							MP-3						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
3/22/2017	30.02	61.7	Yes	-0.112	0	0	0	20.7	8	0	-0.197	2	0.1	0	19.3	8	19	-0.153	>100	20.3	0	0	8	0
6/21/2017	29.91	70	Yes	-0.123	2	0.1	0	N/A	0	0	-0.090	0	0	0	20.6	0	0	-0.025	0	0	0	20.9	0.1	0.3
9/22/2017	29.93	75	Yes	-0.058	76	3.8	0	4.2	0	0	-0.031	2	0.1	0	19.3	0	0	-0.04	>100%	23.1	1	0	0	0.2
12/20/2017[1]	29.92	65	Yes	-0.089	44	2.2	0	13.3	0	0	-0.025	12	0.6	0	20.8	0	1	-0.056	>100%	24.6	0	0.4	0.1	0.2
3/28/2018	30.04	68	Yes	-2.800	0	0	0	21.1	0	0	-2.817	0	0	0	2.2[2]	0	0	Inaccessible						
6/25/2018	30.03	70	Yes	-2.768	2	0.1	2	19.8	0	0	-2.779	2	0.1	2	20.7	0	0	Inaccessible						
9/27/2018	30	57	Yes	-0.050	28	1.4	0	6.2	0	1	-0.074	0	0	0	20.4	0	0	-0.036	>100	7.7	0	1.2	0	0
12/17/2018	29.62	45	Yes	-0.077	44	2.2	0.1	10	0	0	-0.084	2	0.1	0.1	18.8	0	0	Inaccessible						
2/4/2019[3]	30	55	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-0.033	>100	15.2	0	1.3	0.4	0.3
3/15/2019	29.64	62	Yes	-0.054	44	2.2	0	12	1.5	1.5	-0.054	16	0.8	0	18.9	1.4	1.4	-0.063	>100	19.9	0	0.5	4.6	0
6/13/2019	29.63	77	Yes	-0.029	30	1.5	0	8.4	0.2	0.4	-0.022	30	1.5	0	11.3	0	0	-0.057	>100	17.7	0	0.4	0	0
9/4/2019	29.94	78	Yes	-2.650	0	0	0	20.6	0.1	0	-2.663	0	0	0	20.3	0	0	-2.666	0	0	0	15.9	0	0
1/8/2020	30.04	36	Yes	-2.710	0	0	0	20.3	0.1	0.2	-2.730	0	0	0	20.0	1.3	0.8	-2.729	0	0	0	16.2	0.6	0.8
4/7/2020	29.9	53	Yes	-2.679	0	0	0	21	0.4	0	-2.698	0	0	0	21.0	1.8	0	-2.704	0	0	0	21	0.4	0
6/29/2020	29.83	75	Yes	-2.605	0	0	0	20.6	0.2	0	-2.606	0	0	0	20.7	0	0	-2.602	0	0	0	16.1	0	0
9/24/2020	29.95	64	Yes	-1.570	0	0	0	20.8	0	0	-2.500	0	0	0	20.1	0	0	-1.92	0	0	0	20.9	0	0
12/15/2020	30.26	39	Yes	-1.892	0	0	0	21.1	0	0	-2.618	0	0	0	20.3	0	0	-2.005	0	0	0	21.3	0	0
3/22/2021	30.38	46	Yes	-2.517	0	0	0	21.2	0	0	-2.516	0	0	0	21.0	0	0	-2.621	0	0	0	21.6	0	0
6/28/2021	30.21	81	Yes	-2.541	0	0	0	20.1	0	0	-2.549	0	0	0	20.7	0	0	-2.542	0	0	0	17.5	0.2	0.2
9/28/2021	29.81	72	Yes	-2.604	0	0	0	21.6	0	0	-2.651	0	0	0	20.2	0	0.8	-2.611	0	0	0	21.4	0	0
12/20/2021	30.28	28	Yes	-1.957	0	0	0	20.9	0	0	-1.979	0	0	0	20.6	0	0	-1.968	0	0	0	20.6	0	0
3/16/2022	30.2	55	Yes	-2.143	0	0	0	20.9	0	0	-2.099	0	0	0	20.2	0	0	-2.159	0	0	0	20.6	0	0
6/28/2022	30.04	67	Yes	-0.030	0	0	0	15.2	0	0	-0.013	0	0	0	15.5	0	0	-0.023	0	0	0	9	0	0
7/20/2022	29.77	85	Yes	-2.417	0	0	0	NM	NM	NM	-2.430	0	0	0	NM	NM	NM	-2.432	0	0	0	NM	NM	NM
9/20/2022	29.85	70	Yes	-0.130	6	0.3	0	21.1	0	0	-0.302	0	0	0	21.4	0	0	-0.156	0	0	0	18.4	0	0
12/6/2022	30.25	50	Yes	-0.200	34	1.7	0	10.9	0	0.1	-0.010	0	0	0	4.8	0.7	0.7	-0.03	0	3.6	0	14.7	0.2	0.2
3/28/2023	30.05	52	Yes	-2.430	8	0.4	0	20.6	0.4	0.6	-1.863	2	0.1	0	21.0	0.7	0.5	-1.415	2	0.1	0	20.9	0.3	0.3
6/26/2023	29.78	73	Yes	-2.436	0	0	0	21.6	0.3	0.3	-2.430	0	0	0	21.6	0.1	0.1	-2.293	0	0	0	1.5	0	0

Notes:
"WC - Inches of Water
"Hg - inches of mercury
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figure 3 for locations)
cfm - cubic feet per minute
N/A - not applicable
NM - not measured
% O_2 - percent oxygen
°F - degrees Fahrenheit
[1]Ambient % Ox reading of 23.5% due to inability to field calibrate GEM5000 oxygen sensor
[2]Monitoring event conducted under ambient humid conditions
[3]Monitoring point MP-3 was not accessible during last quarter monitoring

Table 2C
Comparison of OM Data - Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Golf Course Comfort Station
Ferry Point Park, Bronx, NY

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Golf Course Comfort Station																					
				MP-1							MP-2							MP-3						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
3/22/2017	30.09	59.4	Yes	-5.371	2	0.1	0	21.6	0	0	Sub-slab monitoring point MP-2 installed on August 15, 2018							Sub-slab monitoring point MP-2 installed on August 15, 2018						
6/19/2017	29.81	84	Yes	-5	2	0.1	0	20.4	0	0														
9/22/2017	29.96	75	Yes	-4.8	0	0	0	21.1	0	0														
12/20/2017[1]	29.91	65	Yes	-5.095	2	0.1	2	23.5	0.1	0.1														
3/28/2018[2]	30.07	68	Yes	-0.038	0	0	0	21.2	80	0														
6/25/2018	30.03	75	Yes	-0.09	2	0.1	2	20.7	0	0														
9/27/2018	30	60	Yes	-0.023	0	0	0	21.7	0	0	-0.67	4	0.2	0	19.4	0	0	-0.024	2	0.1	0	21.4	0	0.2
12/17-18/2018[3]	29.59-29.91	40-35	Yes	-4.777	0	0	0	19.7	0	0	-5.532	2	0.1	0.1	22.6	0	0	-4.414	2	0.1	0.1	21.9	0	0
3/15/2019	29.65	64	Yes	-5.385	0	0	0	20.3	0.5	0.6	-5.596	0	0	0	20.3	0.5	0.1	-2.63	0	0	0	20.2	0.5	0
6/13/2019	29.62	77	Yes	-3.684	>100	13.5	0	11.1	3.5	399.1	-5.607	0	0	0	21.8	0	0	-5.409	2	0.1	0	18.9	0.3	0.4
9/4/2019	29.9	80	Yes	-3.21	0	0	0	19.1	0	0	-0.02	2	0	0	17	0	0	-6.116	6	0.3	0	15.6	0	0
1/8/2020	30.01	37	Yes	-5.923	0	0	0	19.9	0	0	-6.531	0	0	0	19.9	0	0	-4.931	0	0	0	18.3	0	0
4/7/2020	29.9	53	Yes	-5.49	0	0	0	21.4	0	0	-5.719	0	0	0	21.2	0	0	-1.476	0	0	0	20	0	0
6/29/2020	29.83	75	Yes	-6.165	0	0	0	20.9	0	0	-0.79	0	0	0	20.7	0	0	-6.392	0	0	0	20.8	0	0
9/24/2020	29.98	64	Yes	-0.016	0	0	0	20.7	0	0	-0.023	0	0	0	19.3	0	0	-0.013	0	0	0	18.5	0	0
12/14/2020	29.96	40	Yes	-1.848	0	0	0	22.3	0	0	-0.934	0	0	0	21.6	0	0	-0.178	0	0	0	21.6	0	0
3/22/2021	30.35	46	Yes	-0.002	0	0	0	21.3	0	0	0.002	0	0	0	21.2	0	0	0.171	0	0	0	21.1	0	0
6/28/2021	30.19	85	Yes	-6.894	0	0	0	20.7	0	0	-6.733	0	0	0	20.3	0	0	-0.72	0	0	0	20.1	0	0
9/28/2021	29.81	71	Yes	-0.182	0	0	0	21	0	1	-0.949	0	0	0	21	0	0	-0.137	0	0	0	21	0	0
12/20/2021	30.28	28	Yes	-4.668	0	0	0	21.1	0	0	-4.643	0	0	0	20.9	0	0	-3.713	0	0	0	20.8	0	0
3/16/2022	30.2	55	Yes	-7.148	0	0	0	21.2	0	0	-7.081	0	0	0	21.1	0	0	-6.231	0	0	0	19.9	0	0
6/28/2022	30.04	67	Yes	-5.647	0	0	0	20.1	0	0	-4.922	0	0	0	19.8	0	0	-0.074	0	0	0	19.6	0	0
9/20/2022	29.85	70	Yes	-6.183	0	0	0	20.1	0	0	-6.088	0	0	0	22	0	0	-0.667	0	0	0	21.8	0	0
12/6/2022	30.25	50	Yes	-5.818	0	0	0	21	0	0	-5.845	0	0	0	21.2	0	0	-4.075	0	0	0	21.1	0	0
3/28/2023	30.05	52	Yes	-5.567	4	0.2	0	21.9	0.1	0.1	-5.580	2	0.1	0	21.8	0	0.1	-0.816	4	0.2	0	21.5	0	0.2
6/26/2023	29.78	73	Yes	-3.639	0	0	0	21.7	0	0	-3.721	0	0	0	21.8	0	0.1	-0.012	0	0	0	21.9	0	0.1

Notes:
"WC - Inches of Water
"Hg - inches of mercury
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figure 4 for locations)
cfm - cubic feet per minute: Due to instrumentation malfunction this reading was collected in cfm instead of WC to ensure accuracy
NM - not measured
% O_2 - percent oxygen
°F - degrees Fahrenheit
[1]Ambient % O2 reading of 23.5% due to inability to field calibrate GEM5000 oxygen sensor
[2]Monitoring event conducted under ambient humid conditions
[3]Monitoring event split between two days due to access issues. MP-1 monitored 12/18/18; MP-2 and MP-3 monitored 12/17/18

Table 2D
Comparison of OM Data - Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Golf Course Cart Storage Barn
Ferry Point Park, Bronx, NY

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Cart Storage Barn																				
				Blower Effluent							MP-1							MP-2						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
4/19/2017	30.51	55	Yes	-	-	-	-	-	-	-	-0.819	0	0	0	20.8	0	0	-0.824	0	0	0	20.9	0	0
6/19/2017	29.79	80	Yes	357-410	0	0	0	20.9	0	0	-0.916	0	0	0	20.8	0	0	-0.915	0	0	0	20.8	0	0
9/22/2017	29.93	75	Yes	300-800	2	0.1	0	20.1	0	0	-0.92	0	0	0	21.2	0	0	-0.915	0	0	0	21.1	0	0
12/20/2017[1]	29.9	45	Yes	395	2	0.1	2	23.2	0	0	-0.741	0	0	0	23.8	0	0	-0.725	0	0	0	23.8	0	0
3/28/2018	30.03	55	Yes	635	0	0	0	21.8	0	0	-0.937	0	0	0	21.1	0	0	-0.938	0	0	0	21.1	0	0
6/25/2018	30.03	70	Yes	585	2	0.1	2	20.5	0	0	-0.905	2	0.1	2	20.4	0.5	0.1	-0.911	2	0.1	2	20.4	0	0
9/27/2018	30.3	62	Yes	234	2	0.1	0	20.6	0	0	-0.76	0	0	0	21.5	0	0	-0.753	0	0	0	21.5	0	0
12/17/2018[2]	29.62	45	Yes	100	2	0.1	0	20.3	0	0	Inaccessible							Inaccessible						
2/4/2019[3]	30	55	Yes	-	-	-	-	-	-	-	Inaccessible							-0.728	0	0	0	20.6	0	0
3/15/19-4/3/2019[4]	29.80/29.90	67/63	Yes	645	0	0	0	20.3	1.1	0.6	Inaccessible							-0.853	0.5	0.1	0	20.5	0.2	0.1
6/13/2019	29.68	71	Yes	83	0	0	0	21.3	0	0	-0.946	0	0	0	21.5	0	0	-0.952	0	0	0	21.4	0	0
9/4/2019	29.94	80	Yes	39	0	0	0	20.3	0	0	-0.945	0	0	0	20.5	0	0	-0.93	0	0	0	20.7	0	0
1/8/2020	30.03	36	Yes	31	0	0	0	20.2	0	0	Inaccessible							Inaccessible						
4/7/2020	29.94	53	Yes	250-800	0	0	0	21.3	0	0	Inaccessible							Inaccessible						
6/29/2020	29.83	75	Yes	400-700	0	0	0	20.6	0	0	-0.894	0	0	0	20.9	0	0	-0.893	0	0	0	20.8	0	0
9/24/2020	29.94	64	Yes	250-400	0	0	0	20.4	0	0	-0.895	0	0	0	20.9	0	0	-0.909	0	0	0	20.9	0	0
12/15/2020	30.26	39	Yes	350-600	0	0	0	20.9	0	0	-0.937	0	0	0	21.5	0	0	-0.95	0	0	0	21.1	0	0
3/22/2021	320.38	46	Yes	350-600	0	0	0	20.5	0	0	-0.718	0	0	0	21.3	0	0	-0.726	0	0	0	21.3	0	0
6/28/2021	30.2	86	Yes	200-700	0	0	0	20.5	0	0	-0.66	0	0	0	21.2	0	0	-0.801	0	0	0	21	0	0
9/28/2021	29.81	70	Yes	250-400	0	0	0	21.3	0	0	-0.904	0	0	0	21.1	0	0	-0.906	0	0	0	21.2	0	0
12/20/2021	30.28	28	Yes	300-500	0	0	0	21.4	0	0	-0.623	0	0	0	21.1	0.1	0	-0.723	0	0	0	21	0	0
3/16/2022	30.2	55	Yes	350-600	0	0	0	21.2	0	0	-0.775	0	0	0	21.5	0	0	-0.769	0	0	0	20	0	0
6/28/2022	30.04	67	Yes	230-330	0	0	0	19.7	0	0	-0.933	0	0	0	20.4	0	0	-0.931	0	0	0	20.5	0	0
9/20/2022	29.85	70	Yes	35	0	0	0	22.3	0	0	-0.896	0	0	0	22	0	0	-0.153	0	0	0	21.8	0	0
12/6/2022	30.25	50	Yes	22.15	0	0	0	20.4	0	0	-0.764	0	0	0	20.6	0	0	-0.705	0	0	0	20.5	0	0
3/28/2023	30.05	52	Yes	0.450	2	0.1	0	21.3	0.2	0.1	-0.729	2	0.1	0	21.2	0.3	0.2	-0.678	2	0.1	0	21.1	0.3	0.2
6/26/2023	29.78	73	Yes	0.008	0	0	0	21.7	0	0	-0.903	0	0	0	21.5	0	0.1	0.007	0	0	0	1.8	0	0

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Cart Storage Barn													
				MP-3							MP-4						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
4/19/2017	30.51	55	Yes	-0.926	0	0	0	21.2	0	0	-0.932	0	0	0	21.1	0	0
6/19/2017	29.79	80	Yes	-0.943	0	0	0	20.7	0	0	-0.93	0	0	0	20.7	0	0
9/22/2017	29.93	75	Yes	-0.91	0	0	0	21.2	0	0	-0.905	0	0	0	21.1	0	0
12/20/2017[1]	29.9	45	Yes	-0.745	2	0.1	2	23.7	0	0	-0.731	2	0.1	2	23.6	0	0
3/28/2018	30.03	55	Yes	-0.926	0	0	0	21.2	0	0	-0.932	0	0	0	21.1	0	0
6/25/2018	30.03	70	Yes	-0.905	2	0.1	2	20.5	0	0	-0.91	2	0.1	2	20.5	0	0
9/27/2018	30.3	60	Yes	-0.756	0	0	0	21.5	0	0	-0.764	0	0	0	21.3	0	0
12/17/2018[2]	29.62	45	Yes	Inaccessible							Inaccessible						
2/4/2019[3]	30	55	Yes	Inaccessible							-0.733	0	0	0	20.8	0	0
3/15/19-4/3/2019[4]	29.80/29.90	67/63	Yes	Inaccessible							-0.834	0.5	0.1	0	20.6	0.1	0.1
6/13/2019	29.68	71	Yes	-0.948	0	0	0	21.3	0	0	-0.944	0	0	0	21.4	0	0
9/4/2019	29.94	80	Yes	-0.929	0	0	0	20.5	0	0	-0.943	0	0	0	20.5	0	0
1/8/2020	30.03	36	Yes	Inaccessible							Inaccessible						
4/7/2020	29.94	53	Yes	-0.905	0	0	0	21.5	0.1	0	-0.908	0	0	0	21.3	0.1	0
6/29/2020	29.83	75	Yes	-0.894	0	0	0	20.9	0	0	-0.894	0	0	0	20.9	0	0
9/24/2020	29.94	64	Yes	-0.904	0	0	0	20.9	0	0	-0.896	0	0	0	20.9	0	0
12/15/2020	30.26	39	Yes	-0.929	0	0	0	20.9	0	0	-0.985	0	0	0	20.5	0	0
3/22/2021	30.38	46	Yes	-0.733	0	0	0	21.6	0	0	-0.73	0	0	0	21.5	0	0
6/28/2021	30.2	86	Yes	-0.011	0	0	0	20.9	0	0	-0.013	0	0	0	21	0	0
9/28/2021	29.81	70	Yes	-0.888	0	0	0	21.2	0	0	-0.898	0	0	0	21.2	0	0
12/20/2021	30.28	28	Yes	Inaccessible							-0.718	0	0	0	21	0	0
3/16/2022	30.2	55	Yes	-0.861	0	0	0	20.9	0	0	-0.733	0	0	0	21.5	0	0
6/28/2022	30.04	67	Yes	-0.904	0	0	0	20.5	0	0	-0.929	0	0	0	20.5	0	0
9/20/2022	29.85	70	Yes	-0.907	0	0	0	22.4	0	0	-1.11	0	0	0	22.3	0	0
12/6/2022	30.25	50	Yes	Inaccessible							-0.781	0	0	0	20.2	0	0
3/28/2023	30.05	52	Yes	-0.717	2	0.1	0	21.3	0.5	0.3	-0.721	2	0.1	0	21.4	0.6	0.2
6/26/2023	29.78	73	Yes	-0.896	0	0	0	21.7	0	0	-0.919	0	0	0	21.7	0	0

Notes:
"WC - Inches of Water
"Hg - inches of mercury
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figure 5 for locations)
cfm - cubic feet per minute
NM - not measured
% O_2 - percent oxygen
°F - degrees Fahrenheit
[1]Ambient % O2 reading of 23.5% due to inability to field calibrate GEM5000 oxygen sensor
[2]Sub-Slab monitoring points all inaccessible due to golf carts being stored for winter
[3]Only Subslab monitoring points MP-2 and MP-4 were accessible during remobilization on 2/4/2019
[4]Blower was accessible on 3/15/2019. Only Subslab monitoring points MP-2 and MP-4 were accessible during remobilization on 4/3/2019

Table 2E
Comparison of OM Data - Sub-Slab Depressurization and Combustible Gas Monitoring Systems
Golf Course Clubhouse
Ferry Point Park, Bronx, NY

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Golf Course Clubhouse Building																											
				MP-1							MP-2							MP-3							MP-4						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
6/7/2018[1]	30.1	70	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/27/2018	29.94	55	Yes	-1.555	0	0	0	20.4	0.8	0.7	-	-	-	-	-	-	-	-0.247	0	0	0	16	0.1	0	-1.494	0	0	0	21.1	0.3	0.1
12/17/2018	29.73	45	Yes	-1.187	0	0	0	20.3	0	0	-	-	-	-	-	-	-	-1.749	0	0	0	17	0	0	-1.133	0	0	0	20.7	0	0
3/15/2019	29.63	62	Yes	-1.174	0	0	0	20.3	1	1	-	-	-	-	-	-	-	-0.593	0	0	0	18.4	1.2	1.4	-1.099	0	0	0	20	1.4	1.6
6/13/2019	29.78	88	Yes	-1.322	0	0	0	21.1	0	0	-	-	-	-	-	-	-	-0.013	0	0	0	21.4	0	0	-1.226	0	0	0	21.2	0	0.2
9/4/2019	29.97	28	Yes	-1.338	0	0	0	20.5	0	0	-	-	-	-	-	-	-	-1.476	0	0	0	20	20	0	-1.286	0	0	0	20.4	0	0
1/8/2020	30.03	35	Yes	-1.121	0	0	0	20	0	0.1	-	-	-	-	-	-	-	-0.965	0	0	0	19.6	0	0.1	-1.061	0	0	0	19.9	0	0.4
4/7/2020	29.97	53	Yes	-1.145	8	0.4	0	18.2	0	0	-	-	-	-	-	-	-	0.325/0.237 /-0.069[2]	0	0	0	20.7	0	0	-1.063	0	0	0	20.9	0	0
6/29/2020	29.83	70	Yes	-1.236	0	0	0	18.7	0	0	-	-	-	-	-	-	-	-0.041	0	0	0	19.2	0	0	-1.155	0	0	0	20.5	0	0
9/24/2020	29.94	64	Yes	-1.257	0	0	0	19.8	0	0	-	-	-	-	-	-	-	-0.023	0	0	0	20.3	0	0	-1.153	0	0	0	20.8	0	0
12/15/2020	30.26	39	Yes	-1.27	0	0	0	21	0	0	-	-	-	-	-	-	-	-0.519	0	0	0	20.8	0	0	-1.102	0	0	0	21.5	0	0
3/22/2021	30.32	46	Yes	-0.89	0	0	0	18.9	0	0	-	-	-	-	-	-	-	0.008	0	0	0	21.4	0	0	-0.948	0	0	0	21.4	0	0
6/28/2021	30.19	78	Yes	-0.88	18	0.9	0	17.9	0	0	-	-	-	-	-	-	-	0.159	0	0	0	20.8	0	0	-0.617	0	0	0	20.7	0	0
9/28/2021	29.81	72	Yes	-0.704	18	0.9	0	21.2	0	0	-	-	-	-	-	-	-	-0.005	0	0	0	21.1	0	0	-0.381	0	0	0	21	0	0
12/20/2021	30.29	28	Yes	-0.606	8	0.4	0	20.6	0	0	-	-	-	-	-	-	-	-0.006	0	0	0	21.7	0	0	-0.264	0	0	0	21.5	0	0
3/16/2022	30.2	55	Yes	-0.591	0	0	0	20	0	0	-	-	-	-	-	-	-	-0.168	0	0	0	20.3	0	0	-0.169	0	0	0	20.5	0	0
3/31/2022	30.56	29	Yes	-0.586	0	0	0	21.8	0	0	-0.022	0	0	0	21.9	0	0	-0.015	0	0	0	19.9	0	0	-0.17	0	0	0	21.6	0	0
6/28/2022	30.04	67	Yes	-0.6	14	0.7	0	16.3	0	0	-0.003	0	0	0	20.2	0	0	-0.001	0	0	0	20.2	0	0	-0.147	0	0	0	20.3	0	0
7/20/2022	29.77	85	Yes	NM	NM	NM	NM	NM	NM	NM	-0.073	NM	NM	NM	NM	NM	NM	-0.638	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/20/2022	29.85	70	Yes	-0.063	0	0	0	22.7	0	0	-0.011	0	0	0	23.2	0	0	-0.513	0	0	0	23.4	0	0	-0.162	0	0	0	23.5	0	0
12/6/2022	30.25	50	Yes	-0.42	14	0.7	0	18.5	0	0	0.04	0	0	0	21	0	0	-0.818	0	0	0	20.4	0	0	-0.13	0	0	0	20.9	0	0
3/28/2023	30.05	52	Yes	-0.427	2	0.1	0	21.5	0.2	0.1	-0.002	2	0.1	0	21.3	0.1	0.4	-2.55	2	0.1	0	20.9	0.2	0.4	-0.063	2	0.1	0	21.1	0.1	0.2
6/26/2023	29.78	73	Yes	-0.494	0	0	0	21.9	0.2	0.2	-0.016	0	0	0	22.0	0.1	0.2	0.375	0	0	0	22	0.1	0.2	-0.881	0	0	0	22.2	0.1	0.2

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Golf Course Clubhouse Building																											
				MP-5							MP-6							MP-7							MP-8						
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
6/7/2018[1]	30.1	70	Yes	-1.149	NM	NM	0	NM	0	NM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/27/2018	29.94	55	Yes	-0.033	0	0	0	21.2	0	0	-1.587	0	0	0	21	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/17/2018	29.73	45	Yes	-0.014	0	0	0	20.6	0	0	-1.217	0	0	0	20.6	0	0	-	-	-	-	-	-	-	-1.131	0	0	0	20.4	0	0
3/15/2019	29.63	62	Yes	-0.009	0	0	0	19.4	1.8	1.8	-1.185	0	0	0	20.2	1.8	1.8	-	-	-	-	-	-	-	-1.084	0	0	0	20	1.4	1.4
6/13/2019	29.78	88	Yes	-0.018	0	0	0	21.1	0	0.3	-1.312	0	0	0	21.1	0	0	-	-	-	-	-	-	-	-1.195	0	0	0	21.2	0	0
9/4/2019	29.97	78	Yes	-0.019	0	0	0	20.6	0	0	-1.319	0	0	0	20.7	0	0	-1.341	0	0	0	20.4	6	0	-1.271	0	0	0	20.5	0	0
1/8/2020	30.03	35	Yes	-0.02	0	0	0	20	0	0.4	-1.196	0	0	0	20.3	0	0	-1.201	0	0	0	19.7	0.1	0.2	-1.092	0	0	0	19.7	0	0
4/7/2020	29.97	53	Yes	-0.005	0	0	0	20.7	0	0	-1.21	0	0	0	20.6	0	0	-1.137	0	0	0	20.6	0	0	-1.062	0	0	0	20.7	0	0
6/29/2020	29.83	70	Yes	-0.002	0	0	0	20.8	0	0	-1.305	0	0	0	20.9	0	0	-1.1223	0	0	0	20.6	0	0	-1.138	0	0	0	20.6	0	0
9/24/2020	29.94	64	Yes	-0.01	0	0	0	20.8	0	0	-1.304	0	0	0	20.7	0	0	-1.237	0	0	0	20.7	0	0	-1.144	0	0	0	20.7	0	0
12/15/2020	30.26	39	Yes	-0.027	0	0	0	20.8	0	0	-1.296	0	0	0	20.7	0	0	-1.261	0	0	0	21.2	0	0	-1.237	0	0	0	21.1	0	0
3/22/2021	30.32	46	Yes	-0.001	0	0	0	21.4	0	0	-0.679	0	0	0	21.4	0	0	-0.872	0	0	0	21.4	0	0	-0.675	0	0	0	21.4	0	0
6/28/2021	30.19	78	Yes	-0.902	0	0	0	21	0	0	-0.876	0	0	0	20.8	0	0	-0.869	0	0	0	21	0	0	-0.571	0	0	0	20.8	0	0
9/28/2021	29.81	72	Yes	-0.014	0	0	0	21.1	0	0	-0.761	0	0	0	21.2	0	0	-0.858	0	0	0	21.1	0	0	-0.266	0	0	0	21.2	0	0
12/20/2021	30.29	28	Yes	-0.009	0	0	0	21.1	0	0	-0.629	0	0	0	21.1	0	0	-0.587	0	0	0	20.9	0	0	-0.222	0	0	0	21.2	0	0
3/16/2022	30.2	55	Yes	-0.019	0	0	0	20.7	0	0	-0.719	0	0	0	20.5	0	0	-0.594	0	0	0	21	0	0	-0.23	0	0	0	20.3	0	0
3/31/2022	30.56	29	Yes	-0.022	0	0	0	20.8	0	0	-0.75	0	0	0	21.2	0	0	-0.538	0	0	0	20.8	0	0	-0.217	0	0	0	21.2	0	0
6/28/2022	30.04	67	Yes	0	0	0	0	20.3	0	0	-0.59	0	0	0	20.3	0	0	-0.556	0	0	0	20.3	0	0	-0.168	0	0	0	20.4	0	0
7/20/2022	29.77	85	Yes	-2.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/20/2022	29.85	70	Yes	-0.004	0	0	0	23.1	0	0	-0.664	0	0	0	23.1	0	0	-0.601	0	0	0	23.1	0	0	-0.151	0.1	0	0	23.5	0	0
12/6/2022	30.25	50	Yes	0.07	0	0	0	21.1	0	0	-0.455	0	0	0	21.1	0	0	-0.395	0	0	0	21.1	0	0	-0.142	0	0	0	20.8	0	0
3/28/2023	30.05	52	Yes	-0.003	2	0.1	0	21.7	0.1	0.4	-0.439	4	0.2	0	22.0	0.1	0.3	-0.406	4	0.2	0	22.0	0.1	0.2	-0.055	2	0.1	0	20.9	0.3	0.4
6/26/2023	29.78	73	Yes	0.007	0	0	0	22	0.1	0.3	-0.434	0	0	0	22.0	0.1	0.1	-0.462	0	0	0	22	0.3	0.2	-0.051	0	0	0	21.5	0.1	0.2

Date	Barometric Pressure ("Hg)	Ambient Temperature (°F)	System Operational (Y/N)	Golf Course Clubhouse Building												
				MP-9							MP-10					
				Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)	Vacuum (WC)	LEL (%)	Methane by Vol (%)	Ambient LEL (%)	% O_2	Max Ambient PID (ppm)	PID (ppm)
6/7/2018[1]	30.1	70	Yes	-	-	-	-	-	-	-	-1.491	NM	NM	0	NM	0	NM
9/27/2018	29.94	55	Yes	-1.485	0	0	0	21	0	0							
12/17/2018	29.73	45	Yes	-1.115	0	0	0	20.3	0	0	-1.124	0	0	0	20.5	0	0
3/15/2019	29.63	62	Yes	-1.095	0	0	0	19.4	1.5	1.6	-1.087	0	0	0	19.9	1.5	1.6
6/13/2019	29.78	88	Yes	-1.157	0	0	0	21.2	0.1	0.1	-1.183	0	0	0	21.2	0	0
9/4/2019	29.97	78	Yes	-1.253	0	0	0	20.4	0	0	-1.258	0	0	0	20.5	0	0
1/8/2020	30.03	35	Yes	-1.049	0	0	0	19.6	0	0.2	-1.089	0	0	0	19.8	0	1.5
4/7/2020	29.97	53	Yes	-1.03	0	0	0	20.6	0	0	-1.057	0	0	0	20.6	0	0
6/29/2020	29.83	70	Yes	-1.116	0	0	0	20.5	0	0	-1.1201	0	0	0	20.3	0	0
9/24/2020	29.94	64	Yes	-1.115	0	0	0	20.6	0	0	-1.125	0	0	0	20.5	0	0
12/15/2020	30.26	39	Yes	-1.084	0	0	0	21.5	0	0	-1.197	0	0	0	21.4	0	0
3/22/2021	30.32	46	Yes	-0.506	0	0	0	21.4	0	0	-0.694	0	0	0	20.9	0	0
6/28/2021	30.19	78	Yes	-0.578	0	0	0	20.5	0	0	-0.58	0	0	0	19.7	0	0
9/28/2021	29.81	72	Yes	-0.246	0	0	0	21	0	0	-0.381	0	0	0	21.3	0	0
12/20/2021	30.29	28	Yes	-0.19	0	0	0	21.3	0	0	-0.192	0	0	0	21.4	0	0
3/16/2022	30.2	55	Yes	-0.187	0	0	0	20.2	0	0	-0.199	0	0	0	21	0	0
3/31/2022	30.56	29	Yes	-0.159	0	0	0	21.3	0	0	-0.22	0	0	0	21.2	0	0
6/28/2022	30.04	67	Yes	-0.14	0	0	0	20.3	0	0	-0.128	0	0	0	20.3	0	0
7/20/2022	29.77	85	Yes	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/20/2022	29.85	70	Yes	-0.013	0	0	0	23.4	0	0	-0.11	0	0	0	23.4	0	0
12/6/2022	30.25	50	Yes	-0.125	0	0	0	20.7	0	0	-0.1	0	0	0	20.1	0	0
3/28/2023	30.05	52	Yes	-0.056	2	0.1	0	20.9	0.2	0.2	-0.069	2	0.1	0	21.0	0.2	0.3
6/26/2023	29.78	73	Yes	-0.061	0	0	0	20.6	0.2	0.2	-0.066	0	0	0	21.9	0.1	0.1

Notes:
"WC - Inches of Water
"Hg - inches of mercury
LEL - Lower Explosive Limit
PID - Photoionization Detector (Total Organic Vapors)
ppm - Parts per million
MP - Sub-slab monitoring point (see Figure 6 for locations)
cfm - cubic feet per minute
NM - not measured
% O_2 - percent oxygen
°F - degrees Fahrenheit
[1] System only partially installed
[2] Data Collected from three separate Site Visits: April 7, 2020 = +0.325; April 28, 2020 = +0.237 ; May 12, 2020 = -0.069

APPENDIX B
Estimated Construction Schedule

Construction Sequencing Schedule

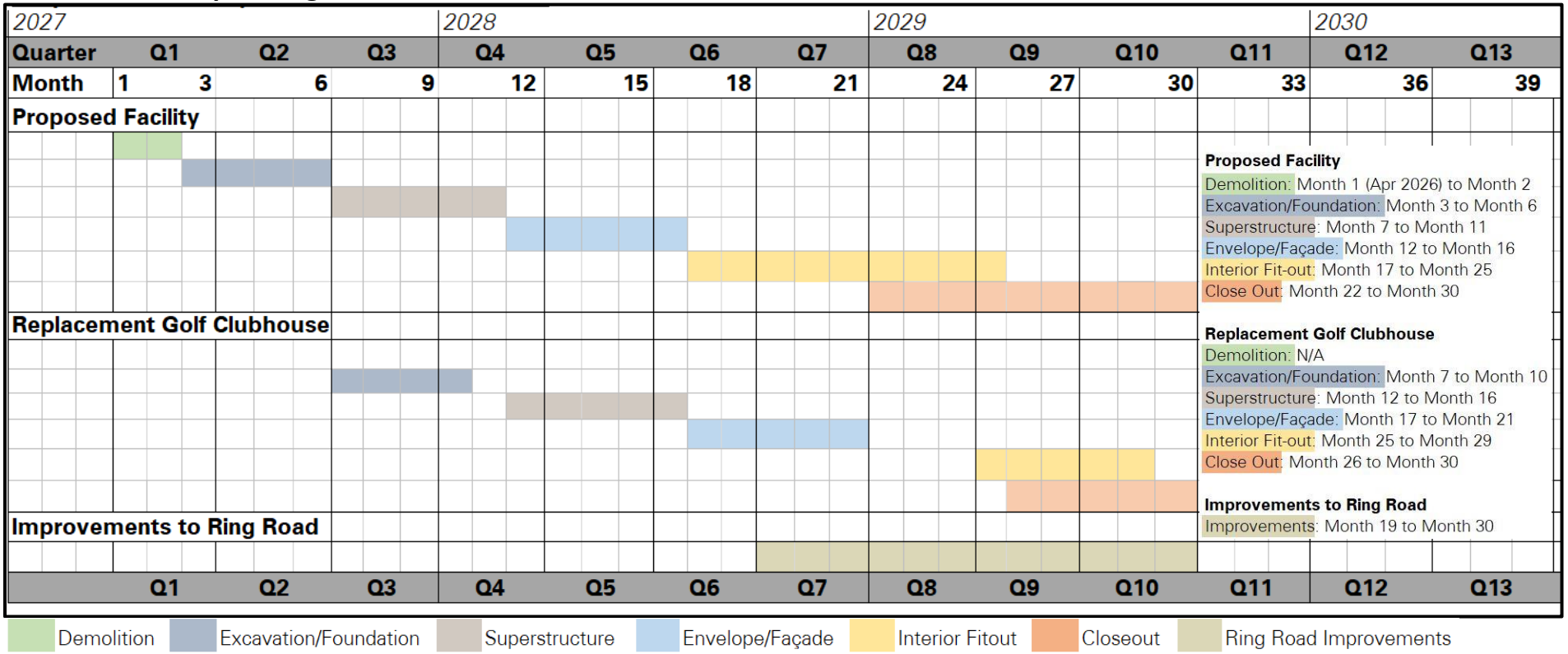

Source: Caspers Henderson Services LLC

APPENDIX C
Project Personnel Resumes

JASON J. HAYES, PE, LEED AP

PRINCIPAL/VICE PRESIDENT

ENVIRONMENTAL ENGINEERING

Mr. Hayes has experience in New York, New Jersey, Washington D.C., California, Washington, Oregon, Alaska, and Internationally. His experience includes Environmental Protection Agency (EPA), New York State (NYS) Brownfields applications, investigation, and remediation; New York City Department of Environmental Protection (NYCDEP) and New York City Office of Environmental Remediation (OER) E-designated site applications, investigations, and remediation. His expertise also includes Phase I and II Environmental Site Investigations and Assessments; contaminated building cleanup and demolition; Underground Storage Tank (UST) permitting, removal specifications, and closure reporting; soil vapor intrusion investigation and mitigation system design (depressurization systems, etc.); development of groundwater contaminant plume migration models; environmental analysis; and oversight, design and specification generation for remediation operations with contaminants of concern to include polychlorinated biphenyls (PCBs), solvents, mercury, arsenic, petroleum products, asbestos, mold and lead.

SELECTED PROJECTS

- NYCDPR Bushwick Inlet Park (Phase I ESA, Approvals for NYC E-Designation), Brooklyn, NY
- WCS New York Aquarium, Shark Tank and Animal Care Facility (Environmental Remediation), Coney Island, NY
- NYC School Construction Authority (PCB Remediation), Various Locations, New York, NY
- 28-29 High Line (Phase I ESA, Phase II ESI, and Environmental Remediation), New York, NY
- Georgetown Heating Plant (Phase II ESI and Remedial Design for Mercury Impacted Site), Washington D.C.
- 268 West Street (BCP Application, RI and RIWP), New York, NY
- Confidential Multiple Mixed-Use Tower Location (BCP Application, RI, Phase I ESA, and Phase II ESI), New York, NY
- Dock 72 at Brooklyn Navy Yard, (NYS Voluntary Cleanup Program), Brooklyn, NY
- 27-21 44th Drive (BCP Application, Remedial Investigation Phase I ESA, and Phase II ESI), Long Island City, NY
- Purves Street Development, BCP Application, RAWP, and Phase II ESI, Long Island City, NY
- 267-273 West 87th Street (BCP Application, Remedial Investigation, RIWP, RAWP), New York, NY
- International Leadership Charter School (Environmental Remediation), Bronx, NY
- West & Watts (BCP Application), New York, NY
- Hudson Yards Redevelopment (Phase I ESA and Phase II ESI), New York, NY
- 627 Smith Street (RI and Report), Brooklyn, NY

EDUCATION

M.S., Environmental Engineering
Columbia University

B.S., Chemistry, Environmental Toxicology (Business Administration minor)
Humboldt State University

PROFESSIONAL REGISTRATION

Professional Engineer (PE) in NY

LEED Accredited Professional (LEED AP)

Troxler Certification for Nuclear Densometer Training

OSHA 40-Hour HAZWOPER

OSHA HAZWOPER Site Supervisor

AFFILIATIONS

US Green Building Council, NYC Chapter, Communications Committee

Urban Land Institute (ULI), member

Commercial Real Estate Development Associations (NAIOP), member

LANGAN

- Gateway Center II Retail (Phase I ESA and Phase II ESI), Brooklyn, NY
- 261 Hudson Street (Phase I ESA, Phase II ESI, BCP, and RAWP), New York, NY
- Riverside Center, Building 2 (BCP, Phase I ESA and Phase II ESI), New York, NY
- New York Police Academy, (Sub-Slab Depressurization and Vapor Barrier System), College Point, NY
- Bronx Terminal Market (BCP, RIWP, RAWP, Phase I ESA and Phase II ESI), Bronx, NY
- Jacob Javits Convention Center (Phase I ESA and Phase II ESI), New York, NY
- Yankee Stadium Development Waterfront Park (NYSDEC Spill Sites), Bronx, NY
- Silvercup West (BCP, RIWP, RIR, RAWP, and RAA), Long Island City, NY
- 29 Flatbush, Tall Residential Building (Groundwater Studies, RIR and RAWP), Brooklyn, NY
- Gowanus Village I (BCP, RIWP and RIR), Brooklyn, NY
- Sullivan Street Hotel (Site Characterization Study and Owner Representation), New York, NY
- Riker's Island Co-Generation Plant (Soil and Soil Vapor Quality Investigations), Bronx, NY
- The Shops at Atlas Park (Sub-Slab Depressurization and Vapor Barrier Design), Glendale, NY
- Memorial Sloan-Kettering Cancer Center (Subsurface and Soil Vapor Intrusion Investigations), New York, NY
- Element West 59th Street (Oversight and Monitoring of Sub-Slab Depressurization and Vapor Barrier Systems), New York, NY
- Teterboro Airport (Delineation and Remedial Oversight of Petroleum-Contaminated Soils), Teterboro, NJ
- Proposed New York JETS Stadium (Phase I ESA), New York, NY
- Former Con Edison Manufactured Gas Plant Sites (Research Reports), New York, NY
- 7 World Trade Center (Endpoint Sampling and Final Closure Report), New York, NY
- Peter Cooper Village, Environmental Subsurface Investigations, New York, NY
- Greenpoint Terminal Market (BCP), Brooklyn, NY
- Confidential Location (Remediation for Mercury-Contaminated Site), New York, NY
- Confidential Location (Phase II ESI and Remedial Design for Mercury Impacted Site), Brooklyn, NY

NYC Brownfield Partnership, member

SELECTED PUBLICATIONS, REPORTS, AND PRESENTATIONS

NYC Mayor's Office of Environmental Remediation – Big Apple Brownfield Workshop – Presented on Soil Vapor Intrusion Remedies (e.g., SSD Systems, Vapor Barriers, Modified HVAC)

New York City Brownfield Partnership – Presented on environmental considerations and complications of the Hudson Yards Development

Waterfront Development Technical Course – Presented on Impacted Waterfront Planning Considerations

BRIAN GOCHENAUR, QEP

ASSOCIATE PRINCIPAL

ENVIRONMENTAL SCIENTIST

Mr. Gochenaur is an environmental project manager with 20 years of experience in environmental due diligence, site investigation and remediation, fuel oil storage tank investigation and removal, soil vapor intrusion assessments, in-situ remedial technology, spill closure, vapor barrier and sub-slab depressurization system design and construction, emergency response, environmental and geotechnical site investigations, and health and safety monitoring. He has extensive experience with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup, Voluntary Cleanup and Spill Programs and New York City Department of Environmental Protection (NYCDEP) "E" Designated and New York City Voluntary Cleanup Program (BCP) sites. His areas of expertise include Phase I Environmental Site Assessments, Phase II Site Investigations, and environmental consulting and oversight on large scale construction projects.

SELECTED PROJECTS

- 440 Washington Street, E-Designated services, New York, NY
- 3514 Surf Avenue, Tall Residential and Retail Building, Brooklyn, NY
- ARO 242 West 53, Tall Residential Building, New York, NY
- NY Aquarium Shark Exhibit, Soil Characterization and Excavation Oversight, Coney Island Neighborhood, Brooklyn, NY
- 60 West Street, Site Investigation and Redevelopment, Brooklyn, NY
- 535 4th Avenue, BCP Auto Repair Cleanup and Redevelopment, Brooklyn, NY
- 1525 Bedford Avenue, BCP Gas Station Cleanup and Redevelopment, Brooklyn, NY
- 220 Eleventh Avenue, Residential Building, New York, NY
- 432 Rodney Street, Residential Building, Brooklyn, NY
- 563 Sackett Street, Brooklyn, NY
- 362 West 125th Street, Residential Building, New York, NY
- Bedford Armory Redevelopment, Brooklyn, NY
- 268 West Street, BCP Redevelopment of Former Commercial and Industrial Site, New York, NY
- 110 125th Street, Soil Excavation and Remediation, New York, NY
- Former Roseland Ballroom Redevelopment, Soil Characterization and Excavation Oversight, New York, NY
- 42 Crosby Street, "E" Designated Site Investigation and Remediation, New York, NY
- New York School Construction Authority, Various Locations, In-House Environmental Consulting, Five Boroughs of New York City
- EZ Serve Portfolio, GE Capital, Various Phase II Site Investigations, FL, GA, LA, and MS
- Beth Elohim Child Daycare Center, Lead Based Paint Abatement, Brooklyn, NY
- Price Battery, Environmental Protection Agency (EPA) Lead Fallout Superfund Site, Hamburg, PA

EDUCATION

B.S., Environmental Science
University of Florida

PROFESSIONAL REGISTRATION

Qualified Environmental Professional (QEP) certified by the Institute of Professional Environmental Practice

40-Hour OSHA (HAZWOPER)

- Clark Portfolio, GE Capital, Various Phase II Locations, MI, IL, ID, and OH
- Tops Plaza Portfolio, Prudential Real Estate Investors, Various Phase II Locations, NY
- Cingular Wireless Portfolio, Cingular Wireless, Various Locations Phase I and II Locations, WA
- Queens Center Mall Expansion, Remedial Oversight, Elmhurst, NY
- Soka Gakkai International-USA, Cultural Center, Brooklyn, NY
- 1752 Shore Parkway, Environmental Remediation, Brooklyn, NY
- Bedford Union Armory, NYS Brownfield Cleanup Program, Brooklyn, NY
- NYCEDC Manhattan Greenway – Harlem River, New York, NY
- 445 Gerard Avenue, Residential Building, Bronx, NY

LAMEES ESMAIL, EIT

PROJECT ENGINEER

ENVIRONMENTAL ENGINEERING

Ms. Esmail is a civil and environmental engineer with four years of experience supporting environmental oversight and remediation projects in New York City. She has performed environmental field work including preparing daily inspection reports, photo documentation of work, and reviewing contractor submittals. She currently performs site research, manages field oversight, reviews/approves contractor submittals, prepares reports, and is involved with remedial design, implementation and project management.

Prior to joining Langan, Ms. Esmail gained three years of experience supporting environmental permitting and erosion and sedimentation control primarily for linear overhead transmission line projects. Types of permits included state land disturbance approvals and Army Corps of Engineers Section 10 Pre-Construction Notifications. Ms. Esmail also has experience aiding with the siting of new substation properties, using ArcGIS and AutoCAD to compile data for potential sites.

EDUCATION

B.S., Civil Engineering (Environmental Concentration)
George Washington University

PROFESSIONAL REGISTRATION

Engineer in Training (EIT) in NC

SELECTED PROJECTS

- Con Edison Partial Replacement of 345KV Feeders M51 & M52 Feasibility Study, New York, NY
- 220 Eleventh Avenue, Hudson Arts Building, New York, NY
- 50 Hudson Yards, Supertall Office Building, New York, NY
- 215 North 10th Street, Brooklyn, NY
- 320 West 135th Street, New York, NY
- 163 Varick Street, New York, NY
- 39 West 23rd Street, New York, NY
- 1 Huron Street, Brooklyn, NY
- Bedford Armory, Brooklyn, NY
- 1607 Surf Avenue, Brooklyn, NY
- 414 Gerard Avenue, Bronx, NY
- 445 Gerard Avenue, Bronx, NY
- 326-350 Rockaway Avenue, Brooklyn, NY
- 197-201 Canal Street, Staten Island, NY
- 475 Bay Street, Staten Island, NY
- Astoria Steel, Queens, NY
- 99 Hudson Boulevard, New York, NY
- 4650 Broadway, New York, NY
- 12-57 57th Street, Brooklyn, NY
- 805-825 Atlantic Avenue, Brooklyn, NY
- Various Phase I Environmental Site Assessments (ESAs) in NYC

SELECTED PUBLICATIONS, REPORTS, AND PRESENTATIONS

Esmail, L., “Transmission Line Erosion Control and Construction Specifications”, Duke Energy Progress Transmission Erosion and Sedimentation Control Seminar, Raleigh, NC, November 2016.

ANTHONY MOFFA, JR., ASP, CHMM, COSS, CSP

ASSOCIATE
CORPORATE HEALTH AND SAFETY MANAGER

Anthony is Langan's Corporate Health & Safety Manager and is responsible for managing health and safety compliance in all Langan office locations. He has 29 years of experience in the health and safety field. He is responsible for ensuring compliance with all federal and state occupational health and safety laws and development and implementation of corporate health and safety policies. His responsibilities include reviewing and updating Langan's Corporate Health and Safety Program and assisting employees in the development of site specific Health & Safety Plans. He maintains and manages health and safety records for employees in all Langan office locations including medical evaluations, respirator fit testing, and Hazardous Waste Operations and Emergency Response training. He is also responsible for documentation and investigation of work-related injuries and incidents and sharing this information with employees to assist in the prevention of future incidents. He is also the chairman of the Corporate Health & Safety Committee and Health & Safety Leadership Team that meet periodically throughout the year. He is responsible for coordinating and providing health and safe training to Langan employees. He was formerly the Environmental, Health and Safety Coordinator at a chemical manufacturer. His experience included employee hazard communications, development of material safety data sheets for developed products, respirator fit testing and conducting required Occupational Health & Safety Association and Department of Transportation training.

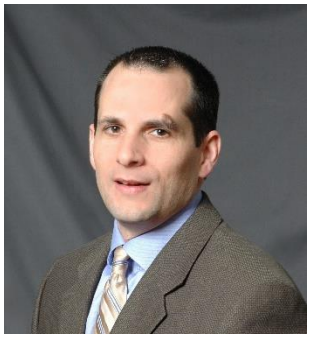

EDUCATION

B.S., Physics
West Chester University

PROFESSIONAL REGISTRATION

Associate Safety Professional (ASP)

Certified Hazardous Material Manager (CHMM)

Certified Occupational Safety Specialist (COSS)

Certified Safety Professional (CSP)

AFFILIATIONS

Pennsylvania Chamber of Business & Industry

Chemical Council of New Jersey

New Jersey Business & Industry Association

American Society of Safety Professionals

WILLIAM BOHRER, PG

SENIOR PROJECT GEOLOGIST

GEOLOGIST

Mr. Bohrer is an experienced geologist responsible for managing Langan's environmental standards and Health and Safety compliance for projects throughout New York City. His services include dissemination of environmental protocols, troubleshooting at project sites, in-house/field training, and maintenance of quality standards across the environmental discipline. Mr. Bohrer has a diverse and extensive background in geophysics, hydrogeology, mining and petroleum, and geotechnical engineering. He has developed conceptual site models for public, industrial and commercial facilities nationwide.

SELECTED PROJECTS

- NYU Poly – 122 Johnson Street, Brooklyn, NY
- Con Edison of New York at Governor's Island, NY, NY
- 535 4th Avenue, Brooklyn, NY
- 27 Wooster Street, New York, NY
- 42 West Street, Brooklyn, NY
- 455 West 19th Street, New York, NY
- Kings Plaza Mall, Brooklyn, NY
- Hudson Yards "Terra Firma," New York, NY
- Hudson Yards, Platform Special Inspection, New York, NY
- PSAC II, Bronx, NY
- 595-647 Smith Street, Brooklyn, NY
- New York University, 7-13 Washington Square North Investigation, New York, NY
- NYU 4 Washington Square Village, New York, NY
- 125th Street and Lenox Avenue, New York, NY
- Sullivan Street Development, New York, NY
- Hudson Crossing II, New York, NY
- New York Aquarium, Shark Tank & Animal Care Facility, Brooklyn, NY
- 209-219 Sullivan Street, New York, NY
- 261 Hudson Street, New York, NY
- 460 Washington Street, New York, NY
- 552 West 24th Street, New York, NY
- Brooklyn Bridge Park Pier 1, New York, NY
- International Leadership Bronx Charter School, Bronx, NY
- 203 East 92nd Street, New York, NY
- HighLine 28-29, New York, NY
- 539 Smith Street Bulkhead, Brooklyn, NY
- Willets Point, Corona, NY
- Plume Migration and Fracture Flow Aquifer Investigation, Brunswick, MD
- Plume Migration and Fracture Flow Aquifer Investigation, Fallston, MD
- Emergency Response Site Investigation & Remediation, Wappingers Falls, NY
- Emergency Response Site Investigation & Remediation, Allentown, PA

EDUCATION

Post Graduate Studies in Geophysics
Cornell University

B.S., Geology
Tufts University

PROFESSIONAL REGISTRATION

Professional Geologist (PG) in NY

40 Hour OSHA HazWOPER

OSHA Construction Safety & Health

OSHA Supervisory Certification Credential (TWIC)

Transportation Worker Identification

NYS DEC- Protecting New York's Natural Resources with Better Construction Site Management

AFFILIATIONS

American Association of Petroleum Geologists

National Groundwater Association

Geological Society of America

LANGAN

- Emergency Response Site Investigation & Remediation, Shamokin, PA
- Bermuda International Airport, Jet Fuel Release Investigation, Bermuda
- Little Missouri River Basin, Geotechnical Site Evaluation (Horizontal Drilling Pipeline Install), ND
- Seismic Susceptibility Evaluation (Class 2 Injection Wells), Litchfield, OH
- Bedrock Mapping, Bradford and Sullivan Counties, PA
- Soil Solidification, Carteret, NJ

PA Council of Professional Geologists

MICHAEL D. BURKE, PG, CHMM, LEED AP

PRINCIPAL/VICE PRESIDENT

ENVIRONMENTAL ENGINEERING AND REMEDIATION

Mr. Burke is a geologist/environmental scientist whose practice involves site investigation and remediation, transactional due diligence, environmental site assessments, in-situ remedial technology, and manufactured gas plant (MGP) site characterization and remediation. His additional services include multi-media compliance audits, sub-slab depressurization system design, non-hazardous and hazardous waste management, emergency response, community air monitoring programs, environmental and geotechnical site investigations, and health and safety monitoring. He has experience with projects in the New York State Department of Environmental Conservation (NYSDEC) and New York State Brownfield Cleanup (NYS BCP) Programs; Inactive Hazardous Waste, and Spill Programs, and New York City Office of Environmental Remediation (OER) e-designated and New York City Voluntary Cleanup Program (NYC VCP) sites.

SELECTED PROJECTS

- 227-14 North Conduit Avenue, Industrial Wastewater Compliance, Jamaica, NY
- 420 Kent Avenue, NYS Brownfield Cleanup Program, Brooklyn, NY
- 572 Eleventh Avenue, NYC VCP, New York, NY
- Monian Site A, OER E-Designated Site, New York, NY
- 537 Sackett Street, Gowanus Canal Due Diligence/MGP Site, Brooklyn, NY
- ABC Blocks 25, 26 and 27, NYS Brownfield Cleanup Program Sites, Long Island City, NY
- 432 Rodney Street, NYS Brownfield Cleanup Program, Petroleum and Chlorinated Volatile Organic Compound Investigation and Remediation, Brooklyn, NY
- 787 Eleventh Avenue, NYS Brownfield Cleanup Program Site, New York, NY
- President Street at Gowanus Canal, NYS Brownfield Cleanup Program Site, Brooklyn, NY
- 22-36 Second Avenue at Gowanus Canal, NYS Brownfield Cleanup Program Site, Brooklyn, NY
- 563 Sacket Street, NYS Brownfield Cleanup Program Site, MGP Investigation, and Remediation, Brooklyn, NY
- 156-162 Perry Street, NYS Brownfield Cleanup Program Site, New York, NY
- Christopher and Weehawken Streets, NYS Brownfield Cleanup Program, New York, NY
- Phelps Dodge Block 2529 (Lots 40, 50, and 45), Inactive Hazardous Waste Disposal Site, Maspeth NY
- 42-50 24th Street, NYS Brownfield Cleanup Program Site, Long Island City, NY
- Storage Deluxe (163 6th Street), OER E-Designation Site, New York, NY

EDUCATION

M.S., Environmental Geology
Rutgers University

B.S., Geological Sciences
Rutgers University

B.S., Environmental Science
Rutgers University

PROFESSIONAL REGISTRATION

Professional Geologist (PG) in NY

Certified Hazardous Materials Manager – CHMM No. 15998

LEED Accredited Professional (LEED AP)

OSHA Certification for Hazardous Waste Site Supervisor

OSHA 29 CFR 1910.120 Certification for Hazardous Waste Operations and Emergency Response

NJDEP Certification for Community Noise Enforcement

AFFILIATIONS

New York State Council of Professional Geologists – Board of Directors

- Prospect Park Redevelopment, Landfill Reclamation, Prospect Park, NJ
- 431 Carroll Street, Gowanus Canal Due Diligence, Brooklyn, NY
- 76 4th Street Property, Gowanus Due Diligence, Brooklyn, NY
- Foxgate/MREC, Due Diligence and Solid Waste Compliance, Central Islip, NY
- 175-225 3rd Street at Gowanus Canal, NYS Brownfield Cleanup Program, Brooklyn, NY
- New York University Tandon School of Engineering, Spill Investigation/Remediation Dual Phase Recovery, and Laser Fluorescence Investigation, Brooklyn, NY
- 2420-2430 Amsterdam Avenue, NYS Brownfield Cleanup Program/Board of Standards and Appeals Variance, New York, NY
- 170 Amsterdam Avenue, NYC VCP, New York, NY
- 538-540 Hudson Street, NYS Brownfield Cleanup Program (Former Gas Station), New York, NY
- 234 Butler Street, Gowanus Canal Due Diligence, Brooklyn, NY
- 550 Clinton Street, NYS Brownfield Cleanup Program E-Designation, Brooklyn, NY
- 111 Leroy Street, OER E-Designation Site, New York, NY
- 335 Bond Street, NYS Brownfield Cleanup Program, New York, NY
- Gowanus Canal Northside, NYS BCP Former Fuel Oil Terminal, Brooklyn, NY
- Multiple Buildings, Major Oil Storage Facility, Gowanus Canal Location, Brooklyn, NY
- 197-205 Smith Street at Gowanus Canal, MGP Due Diligence, Brooklyn, NY
- 450 Union Street at Gowanus Canal, NYS Brownfield Cleanup Program, Brooklyn, NY
- 86 Fleet Place, NYC VCP E-Designation, Brooklyn, NY
- New York University College of Nursing at 433 1st Avenue, NYS BCP, Bronx, NY
- Retail Building at 225 3rd Street, Brooklyn, NY
- 29-37 41st Avenue, NYS Brownfield Cleanup Program, Long Island City, NY
- 43-01 22nd Street, NYS Brownfield Cleanup Program, Long Island City, NY
- Compliance Audit for NYU at Washington Square Park, New York, NY
- Former Watermark Locations, NYS Brownfield Cleanup Program, Chlorinated Volatile Organic Compound Investigation and Remediation; AS/SVE, Brooklyn, NY
- Former Gas Station (1525 Bedford Avenue), Brooklyn, NY
- NYS Brownfield Cleanup Program at 514 West 24th Street, New York, NY
- Gowanus Canal Due Diligence at 76 4th Street, Brooklyn, NY
- Urban Health Plan, Medical Building, NYS Brownfield Cleanup Program CVOC Investigation and Remediation, Bronx, NY
- 420 East 54th Street, NYS Spill Closure, New York, NY
- Equity Residential at 160 Riverside Boulevard, NYS Spill Closure, New York, NY
- 357-359 West Street and 156 Leroy Street, NYC VCP, New York, NY
- Emergency Spill Response at 322 West 57th Street, Investigation and Closure, New York, NY

New York Building Congress – Energy Committee

- Hurricane Sandy, Emergency Response at 21 West Street, New York, NY
- Hurricane Sandy, Emergency Response at 71 Pine Street, New York, NY
- Greenpoint Landing, NYC E-Designation, Brooklyn, NY
- 23-01 42nd Road, NYS Brownfield Cleanup Program, Long Island City, NY
- Greenpoint Waterfront Development, NYS Brownfield Cleanup Program, Brooklyn, NY
- 125th Street and Lenox Avenue, NYC VCP, New York, NY
- Whitehead Realty Solvent Site, Inactive Hazardous Waste site, CVOC, Investigation and Remediation, Brooklyn, NY
- SunCap Property Group Environmental On-Call Consulting, Various Locations, Nationwide
- Con Edison, Underground Storage Tank On-Call Contract, Five Boroughs of New York City, NY
- Con Edison, Construction Inspections On-Call Contract, Five Boroughs of New York City, NY
- Con Edison, Appendix B Spill Sites On-Call Contract, Five Boroughs of New York City, NY
- Meeker Avenue Plume Trackdown Site, Brooklyn, NY
- Distribution Facility, Superfund Redevelopment, Long Island City, NY
- Edison Properties, West 17th Street Development Site (Former MGP Site), New York, NY
- Con Edison, Governors Island Dielectric Fluid Spill, Investigation and Remediation, New York, NY
- 144-150 Barrow Street, NYS Brownfield Cleanup Program, New York, NY
- West 17th Street Development, NYS Brownfield Cleanup Program, MGP Investigation and Remediation, New York, NY
- Montefiore Medical Center, Emergency Response, PCB Remediation, Bronx, NY
- New York University, 4 Washington Square Village Fuel Oil Remediation, New York, NY
- NYCSCA, Proposed New York City School Construction Sites, Five Boroughs of New York City, NY
- Con Edison, East 60th Street Generating Station, New York, NY
- Residential Building at 82 Irving Place, Environmental Remediation, New York, NY
- 1113 York Avenue, Storage Tank Closures, New York, NY
- Peter Cooper Village/Stuyvesant Town, Phase I ESA, New York, NY
- Superior Ink, Waste Characterization and Remedial Action Plans, New York, NY
- Bronx Mental Health Redevelopment Project, Phase I ESA, Bronx, NY
- 2950 Atlantic Avenue, Site Characterization Investigation, Brooklyn, NY
- Con Edison, East 74th Street Generating Station, Sediment Investigation, New York, NY
- Con Edison, First Avenue Properties, New York, NY
- Queens West Development Corp. Stage II, Long Island City, NY
- Article X Project Environmental Reviews, Various New York State Electrical Generation Sites, NY
- Poletti Generating Station, Astoria, NY

- Arthur Kill Generating Station, Staten Island, NY
- Distribution Facility, Phase I & Phase II ESA and Regulatory Compliance, Bohemia, NY
- Huntington Station Superfund Due Diligence, Huntington Station, NY
- Garvies Point Bulkhead, Glen Cove, NY
- Johnson & Hoffman Metal Stamping Facility, Environmental Compliance, Carle Place, NY
- Floral Park Storage Facility, Phase I and Phase II ESA
- Garden City Phase I ESAs at two sites, including part of a Superfund Site, Garden City, NY
- Huntington Station Storage Facility, Phase I and II ESA, Huntington Station, NY
- Trevor Day School, NYS Spill Site Expert Testimony, New York, NY
- 320 West Fordham Road, Bronx, NY
- Bedford Union Armory, NYS Brownfield Cleanup Program, Brooklyn, NY

SELECTED PUBLICATIONS, REPORTS, AND PRESENTATIONS

Burke, M., Ciambruschini, S., Nicholls, G., Tashji, A., Vaidya, S., “Redeveloping a Remediated MGP Site”, MGP Symposium 2019, Atlantic City, NJ.

KAITLYN GIOIA

SENIOR STAFF SCIENTIST

ENVIRONMENTAL ENGINEERING

Ms. Gioia is an Environmental Scientist with the New York City team. Ms. Gioia graduated in 2016 from Adelphi University with a B.A. in Environmental Studies. Ms. Gioia's experiences include project management, leading field work, exposure to an assortment of environmental pollutants, remedial action procedures, & Phase I and Phase II Environmental Assessments. Ms. Gioia has performed Asbestos Hazard and Emergency Response Act (AHERA) inspections and evaluations in schools and State Pollutant Discharge Elimination System (SPDES) sampling for power plants and commercial facilities.

SELECTED PROJECTS

- 80-100 Flatbush Avenue, Brooklyn, NY
- 250 Water Street, New York, NY
- 35-01 & 35-09 Northern Boulevard, Long Island City, NY
- 23-15 44th Road, Long Island City, NY
- South Randalls Due Diligence, New York, NY
- 595-647 Smith Street, Brooklyn, NY
- Willets Point Redevelopment, Flushing, NY
- President Street Properties, Brooklyn, NY
- 475 Bay Street, Staten Island, NY
- Confidential Project, Queens, NY
- 137 Kings Highway, Brooklyn, NY
- 111 Willow Avenue, Bronx, NY
- 560 Degraw Street, Brooklyn, NY
- 122 Fifth Avenue, New York, NY
- Insurance Claim Oversight, White Plains, NY*
- Subrogation Potential Investigation, Lindenhurst, NY*
- Brookhaven National Lab, Brookhaven, NY*
- Far Rockaway Vault Sampling, Far Rockaway, NY*
- East Islip School District AHERA Inspection, East Islip, NY*
- UPRS SPDES Sampling, Uniondale, NY*
- 550 Stewart Avenue Phase I and II, Garden City, NY*
- Riverhead to Canal Cable Expansion, Riverhead, NY*
- Noise Dosimetry Study, Queens, NY*
- School District Lead in Water Sampling, Yonkers, Kings Park, and Baldwin, NY*
- Potable Water Sampling, New York, NY*
- DCF Remediation Oversight, Malverne, West Hempstead, and Port Washington, NY*
- AOP Pilot Testing, Garden City Park, Franklin Square, and Port Washington, NY*

EDUCATION

B.A., Environmental Studies
Adelphi University

PROFESSIONAL REGISTRATION

OSHA 40-Hour

OSHA10-Hour

NYS Department of Labor, Asbestos Inspector License

USEPA Lead Based Paint Inspector License

NYSDEC Class A/B Operator of Underground Storage Tank Systems

NYSDEC 4-Hour Erosion and Sediment Control Contractor Training 2021

**Projects represent experience with a previous firm*

SELECTED PUBLICATIONS, REPORTS, AND PRESENTATIONS

"Fecundity and Embryonic Development of Spiny Dogfish in the Northwest Atlantic Ocean" Transactions of the American Fisheries Society 2019.

Dutton J., Fisher NS., Gioia KA., Madigan DJ., "Tissue Distribution of Mercury in Female Spiny Dogfish (Squalus Acanthias)" Society of Environmental Toxicology and Chemistry South-Central Regional Meeting 2016, Fort Worth, TX.

Dutton J., Fisher NS., Gioia KA., Madigan DJ., "Maternal Transfer of Mercury in Spiny Dogfish" 12th International Congress on The Biology of Fish 2016, San Marcos, TX.

Dutton J., Fisher NS., Gioia KA., Madigan DJ., "Mercury Bioaccumulation and Maternal Transfer in Spiny Dogfish (Squalus Acanthias)" 33rd Annual Meeting of The American Elasmobranch Society/Joint Meeting of Ichthyologists and Herpetologists 2017, Austin, TX.

JOSEPH CONBOY

SENIOR STAFF CHEMIST

ENVIRONMENTAL ENGINEERING

Joseph has 7 years of experience in environmental consulting, specializing in chemical data validation, data quality assessments, data usability evaluations, and EQuIS database management.

SELECTED PROJECTS

- 23-30 Borden Avenue, Long Island City, NY
- 25-01 Queens Plaza North, Long Island City, NY
- 37-11 30th Street, Long Island City, NY
- 266 West 96th Street, New York, NY
- 414 Gerard Avenue, Bronx, NY
- 445 Gerard Avenue, Bronx, NY
- 475 Bay Street, Staten Island,
- 538-544 Hudson Street, New York, NY
- 805-825 Atlantic Avenue, Brooklyn, NY
- 1400 Ferris Place, Bronx, NY
- 1607 Surf Avenue, Coney Island, NY
- 1900 River Road, Burlington, NJ
- 2447 Third Avenue, New York, NY
- ABC - Block 27, Long Island City, NY
- American Dream Meadowlands, East Rutherford, NJ
- Bedford Armory, Brooklyn, NY
- Former Ballantine Brewery, Newark, NJ
- Former Curtiss-Wright Facility, Wood-Ridge, NJ
- Former Duane Marine Site, Perth Amboy, NJ
- Former Perth Amboy Gas Works, Perth Amboy, NJ
- Former Plessey Dynamics Site, Hillside, NJ
- Former MGP Site, Wildwood, NJ
- Gowanus Canal Northside, Brooklyn, NY
- JCP&L Union Beach District Office, Keyport, NJ
- K-8 School, New Brunswick, NJ
- Linden Terminal, Linden, NJ
- Paulsboro Packaging Site, Paulsboro, NJ
- President Street Properties, New York, NY
- Suffolk Street, New York, NY
- Willets Point, Queens, NY

EDUCATION

B.S., Chemistry
Rowan University

APPENDIX D
Health and Safety Plan

HEALTH AND SAFETY PLAN

for

PROPOSED BALLY'S CASINO
at FERRY POINT PARK
Bronx, New York 10465

Prepared for

Bally's Corporation
100 Westminster Street
Providence, Rhode Island

Prepared by:

Langan Engineering, Environmental, Surveying
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Langan Project No. 170773001

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Attachment E Material Data Safety Sheets / Safety Data Sheets*

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Attachment I The City of New York Executive Order No. 74

***** Items to be posted prominently on-site or made readily available to personnel.

1.0 INTRODUCTION

1.1 General

This HEALTH AND SAFETY PLAN (HASP) was developed to address disturbance of known and reasonably anticipated subsurface contaminants and comply with Occupational Safety and Health Administration (OSHA) Standard 29 Code of Federal Regulation (CFR) 1910.120(b)(4), Hazardous Waste Operations and Emergency Response during anticipated site work for the property consisting of an approximately 19-acre portion of Ferry Point Park (FPP) that is part of Bronx Block 5622, Lot 1 (the "Site").

This HASP provides the minimum requirements for implementing site operations during future remedial measures. All contractors performing work on this site must implement their own HASP that, at a minimum, adheres to this HASP. The contractor is responsible for their own health and safety and that of their subcontractors. Langan personnel will implement this HASP while onsite.

The content of this HASP may change or undergo revision based upon additional information made available to health and safety personnel, monitoring results, or changes in the work plan.

1.2 Site Location and Background

The site is an approximately 19-acre parcel located entirely within FPP in the Throggs Neck neighborhood in the Bronx, New York and is identified on the Bronx County Tax Map as part of Block 5622, Lot 1. The site is bound by Hutchinson River Expressway to the west and is otherwise bound by the Golf Course and FPP.

Historically, the land comprising FPP to the east of the Whitestone Bridge operated as a municipal solid waste landfill from 1951 to the 1960s. The landfill was operated by the New York City Department of Sanitation (NYCDOS), with operations ceasing in the 1960s. The former landfill area was capped thereafter with a soil cover of varying thickness. In the late 1990s, the New York City Department of Parks and Recreation (NYCDPR) entered into a license agreement with Ferry Point Partners, LLC to develop, construct, and operate a new public golf course, community park, waterfront park, and related facilities. Construction of the golf course was completed in 2015, and Ferry Point Park is currently operated as a part of the NYCDPR system. A site location map is provided as Figure 1.

1.3 Summary of Work Tasks

1.3.1 Geophysical Investigation - Underground Utility Clearance Policy

Prior to the commencement of intrusive field activities (i.e., soil borings); Langan will follow the Langan Underground Utility Clearance Policy including retaining a geophysical consultant to conduct a geophysical survey using ground penetrating radar (GPR) and electromagnetic detection equipment. The objective of the survey will be to identify any underground storage tank (UST) structures, drains, underground utilities, and other subsurface anomalies that may be encountered during the investigation. During this time Langan personnel will inspect the site and confirm investigation locations are both accessible and free of potential utility or other known or suspected subsurface structures.

1.3.2 "Soft-Dig" Clearance of Borehole Locations

If there is no geophysical survey for utility clearance or the results of the geophysical survey are inconclusive at specific locations subject to intrusive work, or otherwise in compliance with Langan's Underground Utility Clearance Policy, the drilling contractor may "soft-dig" each proposed drilling location or a separate contractor may be retained to "soft-dig" the locations to confirm they are free of utilities or other known or suspected subsurface structures. The dimensions of each location should extend to a depth of 5-feet and be about 1.5 times the anticipated diameter of the borehole when drilled. Langan personnel will confirm that the "soft dig" activities are completed to these specifications.

1.3.3 Day Lighting Excavation and Soil Screening

Langan may retain an excavation contractor to daylight buried unidentified structures. The purpose of the daylighting is to confirm if these structures are subsurface structures of concern (USTs, utilities sewer lines, storm water drains, electrical, gas or other utility line as well as other artifacts pertinent to the work plan). The excavation contractor will contact the appropriate utility mark-out authority and make available to their staff the verification number and effective dates.

The excavation contractor will employ "soft dig" methods in accordance with the Langan Underground Utility Clearance Policy when excavating. Langan may screen excavated soil for visual, olfactory, and instrumental indicators suggestive of a potential chemical or petroleum release. Instrument screening for the presence of volatile organic compounds (VOC) may be performed with a duly calibrated photoionization detector (PID). Contractors will notify Langan personnel if they identify indications suggestive of a potential chemical or petroleum release. Contaminated material shall be handled, and property disposed in accordance with federal, state and city regulations, criteria, and guidelines.

1.3.4 Soil Investigation and Sampling

Langan will retain a drilling contractor to advance soil borings to a depth below grade surface (bgs) specified in the work plan. Borings will be installed at the approximate locations indicated in Langan's work plan but may be moved in the field based on utility clearance and accessibility. The drilling contractor will contact the appropriate utility mark-out authority and make available to their drilling staff the verification number and effective dates. Langan will record the verification number and effective dates from the drillers. Langan will also note the location of marked out utilities on the site plan and scan the data into the project folder.

Langan personnel will screen soil for visual, olfactory, and instrumental indicators suggestive of a potential petroleum release. Instrument screening for the presence of VOC may be performed with a duly field calibrated PID (or equivalent). Langan personnel will collect soil samples from the proposed soil boring locations following the sampling plan outlined in the work plan. The borings will be filled with clean soil cuttings, clean sand or bentonite grout and capped at grade to match the surrounding surface after samples are collected.

Soil samples will be submitted to a specific lab per the work plan or to a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory and analyzed in accordance with work plan specifications.

1.3.5 Groundwater Investigation and Sampling

Selected soil borings will be converted into groundwater monitoring wells and sampled to evaluate groundwater quality. Groundwater samples will be collected from one or more of the new and if available, pre-existing monitoring wells in accordance with the Langan Low Flow Groundwater Sampling SOP (SOP #12). Groundwater samples will be submitted to an approved laboratory and analyzed for constituents as specified in the work plan. Temporary monitoring wells will be plugged and abandoned during the investigation in the manner defined in Section 1.3.2 for soil boring. Permanent monitoring wells will be completed with a road box set in concrete. Permanent monitoring wells will be eventually backfilled and abandoned in accordance with State and Local regulations.

Groundwater samples will be submitted to a NYSDOH ELAP-certified laboratory and analyzed in accordance with work plan specifications.

1.3.6 Groundwater/Product Gauging

Langan may gauge one or more of the observation/monitoring wells to collect synoptic head data or determine the presence of product. When gauging, Langan may also survey head

space VOCs within the well using a duly calibrated PID. When collected, gauging data will be based on the northernmost point at top of casing (TOC) using an interface probe (IP) capable of determining the presence of free product in the monitoring well as light non-aqueous phase liquid (LNAPL) at the top of the water column. If gauging for dense non-aqueous phase liquid (DNAPL) at the base of the monitoring well, the IP may not be appropriate. The field engineer will coordinate with the project team to devise an alternative method to gauge the thickness of DNAPL at base of the well. Langan will decontaminate gauging equipment between wells as required by the work plan.

1.3.7 Product Bailing

Langan may remove free product from on-site monitoring wells as part of this HASP or subsequent SMP activities. Langan will may use a bailer, peristaltic pump or submersible as determined by the work plan. Langan will record the volume of product and groundwater recovered. Recovered product and groundwater will be drummed in accordance with procedures outlined in the work plan.

1.3.8 Sub Slab or Soil Vapor Point Installation and Sampling

Langan (or its contractor) will install one or more sub-slab or soil vapor points at selected locations. If installed, the sub-slab points will be set at or just below the bottom of the slab in accordance with the work plan. The sub-slab points may be installed using an electric hammer drill to advance small diameter borings through the concrete (or equivalent) slab as defined in the work plan. The borings will terminate in and sample from the gravel substrate below the slab. Conditions in the field may require adjustment of sampling locations.

Langan personnel (or contractor) may install VaporPin® vapor points (or equivalent) in accordance with the manufacturer's instructions. If no point is used, Langan (or contractor) will set a sampling tube defined as an open-ended Teflon™-lined polyethylene tubing (or equivalent tubing as approved by the project manager [PM]). The sampling tube will be set either within the base of the concrete slab or within the support gravel underlying the slab.

When using the VaporPin® or equivalent, the installation sleeve will provide the necessary annulus seal required for subsequent sampling. However, if a sampling tube as defined above is use, the annulus at the top of the concrete slab will be filled with bentonite or food grade clay to seal the slab. A sand pack is not required for sub-slab vapor sampling. Unless specified by the work plan, the sub slab points are temporary and will be pulled after the sampling event and the hole will be patched at grade with material similar to the surrounding surface.

Langan personnel will confirm that the soil vapor points (implants) are 2-inches in length

constructed of polyethylene material and are connected to the surface by Teflon™-line polyethylene material (equivalent materials for the point and tubing are acceptable as approved by the PM). The annulus around the implant will be filled with clean sand to 6-inches above the implant. A 1-foot bentonite slurry will be applied to the top of the sand up to seal the sampling points. The remaining soil vapor point annulus may be backfilled with clean cuttings are sand to grade. Unless specified by the work plan, the vapor points are temporary and will be pulled after the sampling event and the hole will be patched at grade with material similar to the surrounding surface.

Vapor samples will be collected in accordance with following guidance including Final Guidance for Evaluating Soil Vapor Intrusion published by the New York State Department of Health (NYSDOH) in October 2006, Langan's Sub-Slab Vapor Sampling SOP (SOP #14) and as specified in the work plan. In addition, ambient air and indoor air samples may be collected for use as a comparison sample. As part of the indoor air sampling program, Langan personnel may complete a building inventory inspection. The inspection may take place prior to the commencement of actual field sampling. Vapor samples may be submitted to a NYSDOH ELAP-certified laboratory and analyzed in accordance with work plan specifications.

1.3.9 Test Pits

Langan may retain an excavation contractor to advance test pits to a depth below grade surface (bgs) specified in the work plan. Locations will be based on the results of the geophysical survey, the site inspection and document review. The excavation contractor is responsible for all permits and will contact the appropriate utility mark-out authority and make available to their staff the verification number and effective dates.

The excavation contractor may be required to use a bladed equipped excavation bucket. Langan personnel will confirm this and observe the test pit excavation noting foundation and soil attributes as required by the work plan. Langan personnel may collect soil samples for geotechnical evaluation. The excavation will be filled with soil cuttings after the observations are completed and samples are collected.

Soil samples, if collected, will be submitted to a geotechnical laboratory to be analyzed in accordance with work plan specifications.

1.3.10 Geotechnical Soil Boring

Langan may retain a geotechnical drilling contractor to advance geotechnical soil borings to a depth bgs specified in the work plan. Borehole locations may on shore or advanced from a barge. The locations may be based on the results of the geophysical investigation, site inspection and

document review. The drilling contractor will contact the appropriate utility mark-out authority and make available to their drilling staff the verification number and effective dates.

Langan will observe the borehole advancement and record appropriate geotechnical data including the results of Standard Penetration Tests (SPT), soil and stratigraphic identification and other data as required by the work plan. One or more borings may be completed as observation wells to be completed as specified in the work plan. All soil borings will be filled with clean soil cuttings after the subsurface exploration is completed.

Langan personnel may collect soil samples for geotechnical evaluation. Soil samples may be submitted to a geotechnical laboratory to be analyzed in accordance with work plan specifications.

1.3.11 Waste Characterization - Soil Investigation and Sampling

Langan will undertake a waste characterization investigation in accordance with the work plan. Langan may retain a drilling contractor to complete to advancing soil borings to a depth below grade surface (bgs) as specified in the work plan. If advanced, borings will be installed at the approximate locations indicated in Langan's work plan but may be moved in the field based on utility clearance and accessibility. The drilling contractor, or Langan is no contractor is retained, will contact the appropriate utility mark-out authority, and make available to their drilling staff the verification number and effective dates. Langan will record the verification number and effective dates from the drillers. Langan will also note the location of marked out utilities on the site plan and scan the data into the project folder.

Langan personnel will screen soil for visual, olfactory, and instrumental indicators suggestive of a potential petroleum release. Instrument screening for the presence of VOCs may be performed with a duly field calibrated PID. Langan personnel will collect soil samples from following the waste classification sampling plan outlined in the work plan. If advanced, borings will be filled with clean soil cuttings, clean sand or bentonite grout and capped at grade to match the surrounding surface after samples are collected.

Soil samples will be submitted to a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory and analyzed in accordance with work plan specifications.

Vapor samples will be collected in accordance with following guidance including Final Guidance for Evaluating Soil Vapor Intrusion published by the New York State Department of Health (NYSDOH) in October 2006, Langan's Sub-Slab Vapor Sampling SOP (SOP #14) and as specified in the work plan. In addition, ambient air and indoor air samples may be collected for use as a

comparison sample. As part of the indoor air sampling program, Langan personnel may complete a building inventory inspection. The inspection may take place prior to the commencement of actual field sampling. Vapor samples may be submitted to a NYSDOH ELAP-certified laboratory and analyzed in accordance with work plan specifications.

1.3.12 Demolition of Current Site Features

Langan will observe the demolition and removal of current site features as defined in the work plan. All soils and debris excavated or disturbed at the site will be either transported off site for disposal at an approved facility or reused on the site. Personnel conducting activities will report to Langan when encountering impacted historic fill, petroleum impacted material or impacted groundwater and shall abide to the provisions of this HASP.

1.3.13 Storm water Pollution Prevention Inspection

If required and in accordance with the work plan, Langan personnel with Storm Water Pollution Prevention (SWPPP) inspection credentials will conduct SWPPP inspections. Langan will observe the stormwater pollution prevention system install to document that the install is in accordance with the work plan and take appropriate measures if impacted soil is observed during excavation.

1.3.14 Excavation

Langan personnel will screen excavated material for visual, olfactory, and instrumental indicators suggestive of a potential chemical or petroleum release. Instrument screening for the presence of volatile organic compounds (VOC) may be performed with a duly calibrated Photoionization detector (PID). Contractors will excavate for utilities, foundation components and potential grading using heavy equipment and hand tools. Contractors will notify Langan personnel if they identify indications of a potential chemical or petroleum release. Contaminated material must be handled, and property disposed in accordance with federal, state and city regulations, criteria, and guidelines.

1.3.15 Soil Screening

As part of future excavation activities, the Langan personnel will report when they have observed visual and olfactory indications of possible soil impact. Langan personnel will also report concentrations of VOCs or methane above background when using a properly calibrated handheld PID and flame ionization detector (FID), or equivalent.

1.3.16 Soil Sampling

Soil samples (waste characterization, excavation endpoint, delineation, or quality assurance/quality control [QA/QC]) may be collected during construction, as required. Langan personnel will coordinate with the contractor in sampling soil (in accordance with the Site Management Plan [SMP], where applicable). If stockpile soil sampling is required from above ground level, suitable excavation equipment (i.e., excavator, front end loader) should be used to collect the sample.

Soil samples will be submitted to a NYSDOH ELAP-certified laboratory and analyzed in accordance with work plan specifications.

1.3.17 Stockpiling

As part of future excavation activities, potentially impacted soil may be stockpiled pending laboratory analysis and determining proper off-site disposal. Visibly contaminated soil, if encountered, must be segregated, and stockpiled on at least 10 millimeters of plastic sheeting; reusable soil and fill must be segregated and stockpiled separately from unusable fill, concrete and other debris; the stockpiles must be kept covered with 6 millimeters thick plastic sheeting; the plastic sheeting covering the stockpiles must be anchored firmly in place by weights, stakes, or both; the Contractor must maintain the plastic sheeting.

1.3.18 Characterization of Excavated Material

When required by the work plan, Langan personnel will characterize excavated soil or clean backfill in accordance with Langan standards.

1.3.19 Construction Activity Inspections and Observations

Langan will observe construction activities including the general oversight, observation of landscaping activities, and other select observation, project management, and supervision as specified in the work plan or in accordance with the construction documents, or special inspection requirements administered by the New York City Department of Buildings. Materials used for construction will be inspected by Langan for conformance to the design documents.

1.3.20 Support of Excavation (SOE)

Langan personnel will perform observational and inspection activities in support of excavation. These activities include drilling of soil pilings and tiebacks and other activities specified in the work plan.

1.3.21 Observation/Monitoring Well Plugging and Abandonment

At an unspecified future date, the observation/monitoring wells will be abandoned. Plugging and abandonment will be in accordance with federal and state requirements. Langan may retain a drilling contractor to complete the plugging and abandonment activities. The contractor will contact the appropriate utility mark-out authority and make available to their field staff the verification number and effective dates. Langan may observe the plugging and abandonment of one or more observation/monitoring wells to document that the plugging and abandonment activities were completed in accordance with the work plan and regulations.

1.3.22 QA/QC Sampling

Samples for quality assurance/quality control [QA/QC] may also be collected and submitted to an approved laboratory and analyzed in accordance with work plan specifications. Information regarding the QA/QC samples including required method of analysis may be included in the same COC as the soil samples unless otherwise instructed by the work plan.

1.3.23 Excavation Backfill

Areas of the site that were over-excavated may be backfilled to development grade (i.e., the grade required to complete construction of the foundation and sidewalk extension). Imported material should meet specifications defined in the work plan or consist of clean fill that meets the 6 New York Codes, Rules and Regulations (NYCRR) Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives (UU SCOs) or other acceptable fill material such as virgin stone from a permitted mine or quarry or recycled concrete aggregate (RCA), from a New York State Department of Environmental Conservation (NYSDEC)-registered facility in compliance with 6 NYCRR Part 360 registration and permitting requirements for the period of RCA acquisition. Imported RCA must be derived from recognizable and uncontaminated concrete.

1.3.24 Decommissioning and Removal of Underground Storage Tank

If an underground storage tank (UST) is encountered, a UST decommissioning and removal contractor shall furnish all labor and materials, equipment and incidentals required for the proper decontamination, removal, and closure of any UST in accordance with federal, state and local regulations. Langan personnel will monitor VOCs with a calibrated PID downwind from the UST excavation and record the PID readings.

1.3.25 Construction Dewatering

Construction dewatering may be required, the dewatering contractor shall be responsible for handling contaminated dewatering fluids in accordance with federal, state and local regulations.

Dewatering fluids are likely to be discharged to the local sanitary sewer system after treatment and under approved regulatory permit. Alternatively, the contractor may provide containerized storage to allow for testing of groundwater prior to, and after, treatment and before disposal. If required, Langan field personnel may sample dewatering treatment system liquids from either a discharge standpipe or a storage tank. Dewatering samples will be submitted to an ELAP-certified laboratory for analysis.

1.3.26 Installation of Vapor/Moisture Barrier

Langan will observe and document the installation of a vapor and/or moisture barrier as defined by the work plan. The installation of the vapor/moisture barrier is to be completed by a properly licensed contractor as specified in the work plan. Langan will inspect the vapor barrier installation to assess whether the installation is in accordance with specifications in the work plan.

1.3.27 Communication Pilot Test Oversight

Langan will oversee the contractor installation of sub-slab monitoring points, the assembling of the vapor manifold with blower and the start-up of the pilot test for the sub-slab vapor remediation system. These activities are to be done in accordance with the work plan. The installation and assembly activities are to be performed by the contractor in accordance with the construction documents. Materials used for construction will be inspected by Langan for conformance to the design documents.

1.3.28 Concrete Coring & Excavation

Langan may retain a contractor to excavate the concrete slab at selected locations for installing the remedial system. Prior to the commencement of intrusive field activities; the contractor will contact the appropriate utility mark-out authority and make available to their staff the verification number and effective dates. The contractor may be required to undertake minimal excavation to meet the design criteria of the work plan.

Langan will observe excavated soil for visual, olfactory, and instrumental indicators suggestive of a potential petroleum release. Instrument screening for the presence of volatile organic compounds (VOCs) may be performed with PID. Langan may collect soil samples if directed by the project manager or as part of the work plan. Soil samples will be submitted to a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory and analyzed in accordance with work plan specifications.

1.3.29 Installation of Sub-Slab Depressurization (SSD) System

Langan will retain contractors to install the components of the proposed SSD system.

Components include:

- Sub-slab piping;
- Above-ground piping; and
- Roof Mounted Blower.

As well electrical and structural components that will provide power or brace/support the SSD system components.

1.3.30 Sub-Slab Depressurization System Inspection

Once active, Langan will perform periodic inspections of the SSD system in accordance with work plan or site management plan (SMP) or as directed by the PM. Inspections will include:

- An assessment of the condition of the SSD system including the four roof-mounted components;
- Collection of vacuum and VOC readings at each of the permanent vapor monitoring points; and
- Collection of flow rate and VOC readings at the effluent at designated points sampling ports in the system.

All work will be duly documented in the O&M work logs and included as required in the O&M reports.

1.3.31 Equipment Decontamination

Before the start of the day's sampling and after sampling each run, sampling equipment will be decontaminated by the decontamination process outlined Attachment B - Decontamination Procedures. Decontamination wastes and purge water will be temporarily stored on site pending analytical results.

1.3.32 Management of Investigative-Derived Waste

The investigative-derived waste (IDW) generated during this investigation will be contained in DOT-approved 55-gallon drums. The drums will be temporarily stored on the site or as directed by the client representative. All drums will be filled between to two-thirds full to allow easy maneuvering during drum pickup and disposal. Drum labels are to be provided by Langan (Environmental Closet). All drums will be labeled as "IDW Pending Analysis" until sample data are reported from the laboratory. Drum labels will include date filled and locations where waste was generated along with the standard information required by the labels in accordance with the

Langan SOP09, Drum Labeling.

Closed top drums are to be used to store liquids. Debris, including plastic sheeting, polyethylene tubing, personal protection equipment (PPE), decontamination debris, etc. will be segregated from and disposed in large heavy duty garbage bags and disposed of at the site. Excess unused glassware should be returned to the lab along with the last day of collection samples.

1.3.33 Drum Sampling

Langan personnel may collect drum samples, as required, prior to off-site drum disposal. Samples will be placed into laboratory-supplied batch-certified clean glassware and submitted to an approved laboratory and analyzed in accordance with work plan specifications, if required.

1.3.34 Surveying

Surveying activities may be completed by Langan. Surveying will be conducted by licensed surveyors.

2.0 IDENTIFICATION OF KEY PERSONNEL/HEALTH AND SAFETY PERSONNEL

The following briefly describes the health and safety (H&S) designations and general responsibilities that may be employed for this site. The titles have been established to accommodate the project needs and requirements and ensure the safe conduct of site activities. The H&S personnel requirements for a given work location are based on the proposed site activities.

2.1 Langan Project Manager

The Langan Environmental Project Manager (PM) is Brian Gochenaur, the Langan Geotechnical PM is Art Alzamora, and the Langan Site/Civil PM is Chris Vitolano, their responsibilities include:

- Ensuring that this HASP is developed, current, and approved prior to on-site activities.
- Ensuring that the tasks in the project are performed in a manner consistent with Langan's comprehensive *Construction Health and Safety Program for Hazardous Waste Operations* and this HASP.

2.2 Langan Corporate Construction Health and Safety Manager

The Langan Corporate Construction Health and Safety Manager is Tony Moffa. His responsibilities include:

- Updating the *Construction Health and Safety Program for Hazardous Waste Operations*.
- Assisting the site Construction Health and Safety Officer (HSO) with the development of the HASP, updating HASP as dictated by changing conditions, job site inspection results, etc., and approving changes to this HASP.
- Assisting the HSO in the implementation of this HASP and conducting Jobsite Safety Inspections and assisting with communication of results and correction of shortcomings found.
- Maintaining records on personnel (medical evaluation results, training and certifications, accident investigation results, etc.).

2.3 Langan Site Health & Safety Officer

The Langan site HSO is William Bohrer. His responsibilities include:

- Participating in the development and implementation of this HASP.
- When on-site, assisting the Langan Field Team Leader in conducting Tailgate Safety Meetings and Jobsite Safety Inspections and correcting any shortcomings in a timely manner.
- Ensuring that proper PPE is available, worn by employees, and properly stored and maintained.
- Controlling entry into and exit from the site contaminated areas or zones.
- Monitoring employees for signs of stress, such as heat stress, fatigue, and cold exposure.
- Monitoring site hazards and conditions.
- Knowing (and ensuring that all site personnel also know) emergency procedures, evacuation routes, and the telephone numbers of the ambulance, local hospital, poison control center, fire department, and police department.
- Resolving conflicts that may arise concerning safety requirements and working conditions.
- Reporting all incidents, injuries, and near misses to the Langan Incident/Injury Hotline immediately and the client representative.

2.4 Langan Field Team Leader Responsibilities

The Langan Field Team Leader (FTL) is to be determined prior to the start of field activities. The Field Team Leader's responsibilities include:

- The management of the day-to-day site activities and implementation of this HASP in the field.
- Participating in and/or conducting Tailgate Safety Meetings and Jobsite Safety Inspections and correcting any shortcomings in a timely manner.

- When a Community Air Monitoring Operating Program (CAMP) is part of the scope, the FTL will set up and maintain community air monitoring activities and instruct the responsible contractor to implement organic vapor or dust mitigation when necessary.
- Overseeing the implementation of activities specified in the IRMWP.

2.5 Contractor Responsibilities

The contractor must develop and implement their own HASP for their employees, their subcontractors, and consultants. The contractor is responsible for their own health and safety and that of their subcontractors. Contractors operating on the site must designate their own FTL, HSO, and Construction Health and Safety Manager (HSM). The contractor's HASP will be at least as stringent as this HASP. The contractor must be familiar with and abide by the requirements outlined in their own HASP. A contractor may elect to adopt Langan's HASP as its own provided that it has given written notification to Langan, but where Langan's HASP excludes provisions pertinent to the contractor's work (i.e., confined space entry); the contractor must provide written addendums to this HASP. Additionally, the contractor must:

- Ensure their employees are trained in the use of all appropriate PPE for the tasks involved.
- Notify Langan of any hazardous material brought onto the job site or site-related area, the hazards associated with the material, and must provide a material safety data sheet (MSDS) or safety data sheet (SDS) for the material.
- Have knowledge of, understand, and abide by all current federal, state, and local health and safety regulations pertaining to the work.
- Ensure their employees handling hazardous materials, if identified at the Site, have received current training in the appropriate levels of 29 CFR 1910.120, *Hazardous Waste Operations and Emergency Response* (HAZWOPER) if hazardous waste is identified at the Site.
- Ensure their employees handling hazardous materials, if identified at the Site, have been fit-tested within the year on the type of respirator they will wear; and
- Ensure all air monitoring is in place pertaining to the health and safety of their employees as required by OSHA 1910.120; and
- All contractors must adhere to all federal, state, and local regulatory requirements.

3.0 TASK/OPERATION SAFETY AND HEALTH RISK ANALYSES

A Task-Hazard Analysis (Table 1) was completed for general construction hazards that may be encountered at the Site. The potential contaminants that might be encountered during the field activities and the exposure limits are listed in Table 2 complete inventory of MSDS/SDS for chemical products used on site is included in Attachment E.

3.1 Specific Task Safety Analysis

3.1.1 Geophysical Survey

Langan personnel are not permitted to operate or otherwise handle the geophysical equipment including any downhole geophysical equipment subsequently used to survey boreholes. When boring locations are surveyed with surface geophysical equipment, the locations of the borings as well as utilities and other artifacts that may interfere with the subsurface investigation are to be marked with indelible paint, flags, or color tape (when marking indoor locations that the client has specifically requested not be marked with indelible paint). This information must also be added to the site map. When applying paint, proper PPE including at a minimum hand protection should be used.

3.1.2 "Soft Dig" Clearance of Borehole Locations

"Soft-Dig" clearance will be completed by the contractor. Langan personnel are not permitted to operate or otherwise handle the contractor's equipment. Langan will update the site map to include the locations of the cleared borehole locations as well as utilities and other artifacts that may interfere with the subsurface investigation.

3.1.3 Daylighting Test Pit

Excavation daylighting must abide by OSHA excavation standards (Part 1926.651) and conform to the Langan Underground Utility Clearance Policy. Daily inspections of excavations, the adjacent areas, and protective systems shall be made by a competent person for evidence of a situation that could result in cave-ins, indications of failure of protective systems, hazardous atmospheres, or other hazardous conditions. An inspection shall be conducted by the competent person prior to the start of work and as needed throughout the shift. Inspections shall also be made after every rainstorm or other hazard increasing occurrence. Sampling the soil requires the donning of chemical resistant gloves in addition to the standard PPE. Langan personnel are not to operate excavation equipment. This task is to be completed by the excavation contractor.

3.1.4 Indoor Drilling and Excavation

The work scope may require indoor excavation where there may not be adequate ventilation sufficient to safely operate any rig or excavation equipment powered by an internal combustion engine. Where possible, all such work should be done by equipment powered by electricity. If such equipment is used and must be directly wired to the buildings electrical system or to an independent system, this work must be completed by a licensed electrician in accordance with all electrical codes applicable to the work.

Indoor work which is to be completed with equipment powered by an internal combustion engine must incorporate air monitoring of carbon monoxide (CO) using calibrated air monitoring equipment (MultiRAE or equivalent). In addition, the work plan should incorporate mitigation for venting engine exhaust fumes directly to the outdoors and for circulating fresh air into the work area.

The OSHA Time Weighted Average (TWA) Permissible Exposure Limit (PEL) for CO from 50 to 35 parts per million (ppm). Langan will monitor CO with a suitable monitoring device. If CO levels exceed 5 ppm, Langan will instruct contractors to begin mitigation measures. These measures are at a minimum:

- Increase air circulation using industrial size fans to bring additional fresh air into the building or vent exhaust to the outside.
- Modify the passive exhaust method being used to increase venting circulation by using wider diameter tubing or sealing tubing connections; or
- Modify the work schedule where the rig is turned off to allow time for CO levels to fall back to background.

All work must cease if CO levels reach 35 ppm. The Langan engineer is to report to the PM and H&S officer when an action level is reached.

3.1.5 Outdoor Air Monitoring

Langan and its contractors will continuously self-monitor for the lower explosion limit (LEL) using, at a minimum, a personal LEL single gas monitor. When excavating in an enclosed space such as a trench or similar excavation, Langan and its contractors will monitor ambient air in the excavation using a four-gas meter including oxygen, hydrogen sulfide, carbon monoxide and LEL or a five-gas meter having an additional sensor for VOCs.

When any alarm is sounded, Langan and its contractors are to evacuate to the designated muster point and Langan is to notify the site's designated incident commander or foreman.

3.1.6 Soil Investigation and Sampling

Sampling the soil requires the donning of chemical resistant gloves in addition to the standard PPE. Langan personnel are not to operate drilling or excavation equipment nor open sampling devices (acetate liners, sonic sample bags, etc.). These tasks are to be completed by the driller or excavation contractor.

3.1.7 Groundwater Investigation and Sampling

Sampling groundwater requires the donning of chemical resistant gloves in addition to the standard PPE and cut resistant gloves when cutting sampling-tubing to length. Langan personnel are not to operate drilling equipment nor assemble or install monitoring well equipment. These tasks are to be completed by the driller contractor.

1.3.8 Groundwater/Product Gauging

Gauging product requires additional safety considerations including the presence of VOCs and protection of both field cloths and property. Langan will monitor air for VOCs using a duly calibrated PID. Langan will don protective clothing including Tyvek® over-cloths, as necessary. To protect property, Langan will work set a plastic barrier to protect floors or protect landscaping and use absorbent pads as necessary to collect pooled product. If sampling for PFAS from the same well, Langan will complete the product check first, if the well can be sampled without including product, Langan will remove the Tyvek® material from the well head vicinity.

3.1.9 Product Recovery Well Bailing

Langan may bail free product from monitoring wells. Free product bailing requires the donning of Tyvek™ suits, Tyvek™ boots and chemical resistant gloves in addition to the standard PPE and cut resistant gloves when cutting sampling-tubing to length. In addition, Langan will place plastic sheeting around the recovery well head to control spillage during product recovery. Langan will also keep on hand and readily available product absorbing pads to use as needed.

3.1.10 Electrical Pumps

Langan may use an electric pump to collect product from the recovery wells or to sample groundwater. Langan will inspect the electric pump and control box prior to use and specifically note the condition of the electrical connectors, pump, control box and the electrical cord. The electrical connection must be a grounded and connect to the power source using a functional three prong grounded plug. The power source must be a Ground Fault Circuit Interrupter (GFI or GFCI) receptacle.

3.1.11 Vapor Investigation and Sampling

Sampling vapor requires the donning of work gloves in addition to the standard PPE when assembling the Summa™ canister with the regulator and cut resistant gloves when cutting sampling- or silicone-tubing to length. Langan personnel are not to operate contractor equipment

nor assemble or install the contractor vapor point sampling equipment unless instructed by the work plan. When not instructed by the work plan, these tasks are to be completed by the contractor.

3.1.12 Additional Vapor Screening

Langan personnel may prescreen vapor samples for volatile organic compounds (VOCs), methane, hydrogen sulfide and lower explosion limit (LEL) conditions using duly calibrated devices design to screen vapor for these parameters. Langan personnel may also perform atmospheric screening for LEL. Results of the screening may be used in determining which soil vapor samples will be submitted for analysis.

Work activities will immediately cease, and the work area is to be evacuated if the MultiRAE returns a reading of 10% of the LEL (an alarm will sound). Langan personnel will contact the Langan PM. Instrument action levels for monitored gases are provided in Table 4.

3.1.13 Waste Characterization – Soil Investigation and Sampling

Sampling the soil requires the donning of chemical resistant gloves in addition to the standard PPE. Langan personnel are not to operate drilling or excavation equipment nor open sampling devices (acetate liners, sonic sample bags, etc.). These tasks are to be completed by the driller or excavation contractor.

3.1.14 Test Pit

Excavation test pits must abide by OSHA excavation standards (Part 1926.651). Daily inspections of excavations, the adjacent areas, and protective systems shall be made by a competent person for evidence of a situation that could result in possible cave-ins, indications of failure of protective systems, hazardous atmospheres, or other hazardous conditions. An inspection shall be conducted by the competent person prior to the start of work and as needed throughout the shift. Inspections shall also be made after every rainstorm or other hazard increasing occurrence. Sampling the soil requires the donning of chemical resistant gloves in addition to the standard PPE. Langan personnel are not to operate excavation equipment. This task is to be completed by the excavation contractor.

3.1.15 Geotechnical Soil Boring Investigation

Handling soil requires the donning of chemical resistant gloves in addition to the standard PPE. Langan personnel are not to operate drilling equipment nor open sampling devices (split spoons, acetate liners, sonic sample bags, etc.). These tasks are to be completed by the drilling

contractor.

3.1.16 Storm Water Pollution Prevention Inspection

When performing SWPPP inspections, Langan personnel will don all required PPE and maintain awareness to site traffic and site activities. If using a cell phone or tablet application to record the pertinent data, the engineer will do so in an area protected from site traffic and activities. Certain types of inspections may require additional PPE and safety training including fall protection and open water hazards.

3.1.17 Building Demolition

Langan will not be entering demolition areas nor perform any monitoring activities. The contractor will perform all work and monitoring under their own HASP following their own work plan.

3.1.18 Soil Investigation and Sampling

Sampling the soil requires the donning of chemical resistant gloves in addition to the standard PPE. Langan personnel are not to operate drilling or excavation equipment nor open sampling devices (acetate liners, sonic sample bags, etc.). These tasks are to be completed by the driller or excavation contractor.

3.1.19 Excavation and Soil Screening

Langan personnel will observe excavation and SOE activities including the general oversight, observation of landscaping activities, and other select observation project management and supervision as specified in the work plan or in accordance with the construction documents, or special inspection requirements administered by the DOB. Materials used for construction may be inspected by Langan personnel for conformance to the design documents. Prior to entering excavation, Langan personnel will ensure that excavation shoring conforms to proper shoring/benching/sloping techniques, at a minimum that soil and equipment is kept at least 2 feet from the edge of the excavation, that there is no water in the excavation, and that a competent person has inspected excavation prior to allow persons to enter. When entering excavation via a ladder, Langan personnel will only use ladders that are properly situated in accordance with the Ladder section of the HASP.

3.1.20 Soil Sampling

Sampling the soil requires the donning of chemical resistant gloves in addition to the standard PPE. Langan personnel are not to operate drilling or excavation equipment nor open sampling

devices (acetate liners, sonic sample bags, etc.). These tasks are to be completed by the driller or excavation contractor.

3.1.21 Stockpile Sampling

The Langan personnel are not to scale or climb stockpiles. If the soil sampling plan requires sampling from the stockpile above ground level, samples are to be obtained using suitable excavation equipment operated by the contractor (i.e., front end loader).

3.1.22 Construction Dewatering

If required, Langan may sample dewatering treatment system liquids from either the direct discharge standpipe or from a sample port or valve built into the storage tank, Langan will don the necessary PPE including nitrile gloves and if necessary, facial splash guard. Sample ports and valves may only be sampled if they are accessible at ground level. Sampling from heights over 6 feet is prohibited unless Langan field personnel are fully accredited in fall protection and is wearing approved fall protection safety apparatus. The discharge samples will be submitted to an ELAP-certified laboratory for analysis in accordance with the work plan.

3.1.23 Construction Activity Inspection

Langan personnel will conduct inspections as specified in the work plan. Langan may record the data the work plan requires. All future repair work to the engineering controls will be done exclusively by the contractor following their own health and safety specifications outlined in their HASPs. Other activities assigned to Langan as part of work activities are limited to inspection and observations as specified in the SMP or future work pans. Langan personnel are not to operate or assist in the operation of equipment used in construction activities unless defined as part of an inspection or observation in the work plan.

3.1.24 Removal of Underground Storage Tank

If UST excavation and removal activity is initiated, Langan personnel will conduct air monitoring for lower explosion limit (LEL) conditions within the UST excavation itself. This task is to be performed using calibrated air monitoring equipment designed to sound an audible alarm when atmospheric concentrations of VOCs are within 10% of the LEL. In normal atmospheric oxygen concentrations, the LEL monitoring may be done with a Wheatstone bridge/catalytic bead type sensor (i.e., MultiRAE). However, in oxygen depleted atmospheres (confined space), only an LEL designed to work in low oxygen environments may be used. Best practices require that the LEL monitoring unit be equipped with a long sniffer tube to allow the LEL unit to remain outside the UST excavation. Langan personnel are not to enter the UST excavation nor enter an excavated UST.

In addition to monitoring LEL, Langan personnel will monitor atmospheric VOC concentrations directly downwind of the UST excavation in accordance with standard CAMP procedures using calibrated air monitoring equipment.

3.1.25 Installation of the Vapor/Moisture Barrier

Specifically trained contractors are to install the vapor/moisture barrier. Langan personnel are there only to observe and record the data required in the work plan. Installation and assemblage of the vapor barrier is to be done exclusively by the contractor following their own health and safety specific HASP.

3.1.26 Concrete Coring & Excavation

Langan personnel are not permitted to operate or otherwise handle the contractor equipment. All electrical equipment and cords must be visually inspected. If the equipment housing appears damage or the electrical cords worn, they must be removed from use and replaced before the designated task continues. The contractor will use a Ground Fault Interrupter Circuit (GFIC) as a safety precaution.

3.1.27 Installation of Sub-Slab Depressurization (SSD) System

Unless specifically permitted by the work plan, Langan will not assist the contractor in installing components of the SSD system. Langan will observe and record pertinent information as required by the work plan. Langan employees are required to have completed fall protection training before completing any work from heights including roof work.

3.1.28 Operations and Maintenance

Langan will don standard PPE including hand and hearing protection when performing remedial system operations and maintenance activities. When and where necessary, Langan will implement lock-out/tag-out protocols. Waste generated during operations and maintenance will be contained as specified in this HASP and in the work plan. As required, Langan may sample drums generated as specified in this HASP and the work plan. Specific Safety Data Sheets (SDS) for chemical and consumables related to the operations and maintenance of the SSD system will be kept in the HASP Attachment I with the Operations and Maintenance manual (on-site).

3.1.29 Backfilling of Excavated Areas to Development Grade

The backfilling contractor will provide their employees with equivalent PPE to protect them from the specific hazards likely to be encountered on-site. Selection of the appropriate PPE must take into consideration: (1) identification of the hazards or suspected hazards; (2) potential exposure

routes; and (3) the performance of the PPE construction (materials and seams) in providing a barrier to these hazards. Langan personnel may survey backfilling material with a calibrated PID; however, as they are not permitted to climb the material delivery truck, the contractor must provide samples from each truck as required.

3.1.30 Support of Excavation

Langan personnel will inspect elements of the SOE including tiebacks in accordance with specification in the work plan and record the data the work plan and/or contract documents require. The installation of the soil pilings, tiebacks and other SOE activities are to be done exclusively by the contractor following their own health and safety specifications outlined in their HASPs. Other activities assigned to Langan as part of the SOE are limited to inspection and observations as specified in the work plan and/or contract documents. Langan personnel are not to operate or assist in the operation of equipment used in the SOE unless defined as part of an inspection or observation in the work plan and/or contract documents.

3.1.31 Drum Sampling

Drilling fluid, rinse water, grossly contaminated soil samples, and cuttings will be containerized in 55-gallon drums for disposal off-site. Each drum must be labeled in accordance with the Langan Drum Labeling Standard Operating Procedure (SOP09). Sampling drums requires the donning of work gloves when opening the drums and chemical resistant gloves when sampling in addition to standard PPE.

3.2 Radiation Hazards

No radiation hazards are known or expected at the site.

3.3 Physical Hazards

Physical hazards, which may be encountered during site operations for this project, are detailed in Table 1.

3.3.1 Explosion

No explosion hazards are expected for the scope of work at this site.

3.3.2 Heat Stress

The use of Level C protective equipment, or greater, may create heat stress. Monitoring of personnel wearing personal protective clothing should commence when the ambient

temperature is 72°F or above. Table 6 presents the suggested frequency for such monitoring. Monitoring frequency should increase as ambient temperature increases or as slow recovery rates are observed. Refer to Table 7 to assist in assessing when the risk for heat-related illness is likely. To use this table, the ambient temperature and relative humidity must be obtained (a regional weather report should suffice). Heat stress monitoring should be performed by the HSO or the FTL, who must be able to recognize symptoms related to heat stress.

To monitor the workers, be familiar with the following heat-related disorders and their symptoms:

- **Heat Cramps:** Painful spasms of arm, leg, or abdominal muscles, during or after work
- **Heat Exhaustion:** Headache, nausea, dizziness; cool, clammy, moist skin; heavy sweating; weak, fast pulse; shallow respiration, normal temperature
- **Heat Stroke**: Headache, nausea, weakness, hot dry skin, fever, rapid strong pulse, rapid deep respirations, loss of consciousness, convulsions, coma. *This is a life-threatening condition***.**

Do not permit a worker to wear a semi-permeable or impermeable garment when they are showing signs or symptoms of heat-related illness.

To monitor the worker, measure:

- **Heart rate:** Count the radial pulse during a 30-second period as early as possible in the rest period. If the heart rate exceeds 100 beats per minute at the beginning of the rest period, shorten the next work cycle by one-third and keep the rest period the same. If the heart rate still exceeds 100 beats per minute at the next rest period, shorten the following work cycle by one-third. A worker cannot return to work after a rest period until their heart rate is below 100 beats per minute.
- **Oral temperature:** Use a clinical thermometer (3 minutes under the tongue) or a similar device to measure the oral temperature at the end of the work period (before drinking). If oral temperature exceeds 99.6^{o}F (37.6^{o}C), shorten the next work cycle by one-third without changing the rest period. A worker cannot return to work after a rest period until their oral temperature is below 99.6^{o}F. If oral temperature still exceeds 99.6^{o}F (37.6^{o}C) at the beginning of the next rest period, shorten the following cycle by one-third. Do not permit a worker to wear a semi-permeable or impermeable garment when oral temperature exceeds 100.6^{o}F (38.1^{o}C).

Prevention of Heat Stress - Proper training and preventative measures will aid in averting loss of worker productivity and serious illness. Heat stress prevention is particularly important because once a person suffers from heat stroke or heat exhaustion, that person may be predisposed to additional heat-related illnesses. To avoid heat-stress the following steps should be taken:

- Adjust work schedules.
- Mandate work slowdowns as needed.
- Perform work during cooler hours of the day if possible or at night if adequate lighting can be provided.
- Provide shelter (air-conditioned, if possible) or shaded areas to protect personnel during rest periods.
- Maintain worker's body fluids at normal levels. This is necessary to ensure that the cardiovascular system functions adequately. Daily fluid intake must equal the amount of water lost in sweat, i.e., eight fluid ounces (0.23 liters) of water must be ingested for every eight ounces (0.23 kilograms [kg]) of weight lost. The normal thirst mechanism is not sensitive enough to ensure that enough water will be drunk to replace lost sweat. When heavy sweating occurs, encourage the worker to drink more. The following strategies may be useful:
    - Maintain water temperature 50° to 60°F (10° to 16.6^{o}C).
    - Provide small disposal cups that hold about four ounces (0.1 liters).
    - Have workers drink 16 ounces (0.5 liters) of fluid (preferably water or dilute drinks) before beginning work.
    - Urge workers to drink a cup or two every 15 to 20 minutes, or at each monitoring break. A total of 1 to 1.6 gallons (4 to 6 liters) of fluid per day are recommended, but more may be necessary to maintain body weight.
    - Train workers to recognize the symptoms of heat-related illness.

3.3.3 Cold-Related Illness

If work on this project begins in the winter months, thermal injury due to cold exposure can become a problem for field personnel. Systemic cold exposure is referred to as hypothermia. Local cold exposure is called frostbite.

- **Hypothermia -** Hypothermia is defined as a decrease in the patient core temperature below 96°F. The body temperature is normally maintained by a combination of central (brain and spinal cord) and peripheral (skin and muscle) activity. Interference with any of these mechanisms can result in hypothermia, even in the absence of what normally is considered a "cold" ambient temperature. Symptoms of hypothermia include shivering, apathy, listlessness, sleepiness, and unconsciousness.
- **Frostbite -** Frostbite is both a general and medical term given to areas of local cold injury. Unlike systemic hypothermia, frostbite rarely occurs unless the ambient temperatures are less than freezing and usually less than 20°F. Symptoms of frostbite are a sudden blanching or whitening of the skin; the skin has a waxy or white appearance and is firm to the touch; tissues are cold, pale, and solid.

Prevention of Cold-Related Illness - To prevent cold-related illness:

- Educate workers to recognize the symptoms of frostbite and hypothermia.
- Identify and limit known risk factors:
- Assure the availability of an enclosed, heated environment on or adjacent to the site.
- Assure the availability of dry changes of clothing.
- Assure the availability of warm drinks.
- Start (oral) temperature recording at the job site:
- At the FSO or Field Team Leader's discretion when suspicion is based on changes in a worker's performance or mental status.
- At a worker's request.
- As a screening measure, two times per shift, under unusually hazardous conditions (e.g., wind-chill less than 20°F, or wind-chill less than 30°F with precipitation).
- As a screening measure whenever anyone worker on the site develops hypothermia.

Any person developing moderate hypothermia (a core temperature of 92°F) cannot return to work for 48 hours.

3.3.4 Noise

Work during the proposed activities may be conducted at locations with high noise levels from the operation of equipment. Hearing protection will be used, as necessary.

3.3.5 Hand and Power Tools

The use of hand and power tools can present a variety of hazards, including physical harm from being struck by flying objects, being cut, or struck by the tool, fire, and electrocution. All hand and power tools should be inspected for health and safety hazards prior to use. If deemed unserviceable/un-operable, notify the supervisor and tag equipment out of service. Ground Fault Circuit Interrupters (GFCIs) are required for all power tools requiring direct electrical service.

3.3.6 Slips, Trips, and Fall Hazards

Care should be exercised when walking at the site, especially when carrying equipment. The presence of surface debris, uneven surfaces, pits, facility equipment, and soil piles contribute to tripping hazards and fall hazards. To the extent possible, all hazards should be identified and marked on the site, with hazards communicated to all workers in the area.

3.3.7 Utilities (Electrocution and Fire Hazards)

3.3.7.1 Utility Clearance

The possibility of encountering underground utilities poses fire, explosion, and electrocution hazards. All excavation work will be preceded by a review of available utility drawings and by notification of the subsurface work to N.Y. One –Call--Center.

3.3.7.2 Lockout-Tagout

The potential adverse effects of electrical hazards include burns, arc flashes, and electrocution, which could result in serious injury including death. Therefore, there is a procedure that establishes the requirements for the lockout/tag out (LOTO) of energy isolating devices in accordance with the OSHA electrical lockout and tagging requirements as specified in 29CFR1910.147 and 29 CFR 1926.417. This procedure will be used to ensure that all machines and equipment are isolated from potentially hazardous energy. If possible, equipment that could cause injury due to unexpected energizing, start-up, or release of stored energy will be locked/tagged, before field personnel performs work activities.

The facility owner/operator/representative is to be the authorized person that will initiate and perform the LOTO in accordance with applicable rules and practices. Inerting of electrical power sources is to be completed by an authorized and licensed electrician. Langan personnel will follow LOTO protocols and practices including adding a separate lock/signature to the LOTO chain in accordance with said protocols and practices.

SPECIAL NOTE: Project personnel will assume that all electrical equipment at the surface, subsurface, and overhead locations are energized until equipment has been designated and confirmed as de-energized by a utility company representative. Langan will notify the designated utility representative prior to working adjacent to this equipment and will verify that the equipment is energized or de-energized in the vicinity of the work location. No project work shall be performed by Langan personnel or subcontractors near energized electrical lines or equipment.

The FTL shall accompany the designated facility owner/operator/representative or authorized/licensed electrician in surveying to locate and identify all energy-isolating devices. Langan will note which switches, valves or other isolating devices are used for inerting the equipment and how they are set assuring LOTO. The lockout/tagout procedure involves, but is not limited to, electricity, motors, steam, natural gas, compressed air, hydraulic systems, digesters, sewers, etc.

3.3.8 Adequate Lighting

Indoor or night activities must be done under adequate lighting conditions. The Langan field engineer must be able to clearly see the equipment, all controls and have sufficient lighting to detail color labels. Battery operated lights are sufficient provided they cast a wide enough field to provide the required lighting and there are back-up batteries and emergency flashlights available. Electrically powered lights are suitable provided the electrical source is equipped with a ground fault interrupt circuit (GFIC) and the extensions cords are visually inspected and not used if they show cracked or missing insulation. If a generator is supplying the electricity, it must be outdoors and properly vented.

3.3.9 Physical Hazard Considerations for Material Handling

There are moderate to severe risks associated with moving heavy objects at the Site. The following physical hazards should be considered when handling materials at the Site:

- Heavy objects will be lifted and moved by mechanical devices rather than manual effort whenever possible.
- The mechanical devices will be appropriate for the lifting of moving tasks and will be operated only by trained and authorized personnel.
- Objects that require special handling or rigging will only be moved under the guidance of a person who has been specifically trained to move such objects.
- Lifting devices will be inspected, certified, and labeled to confirm their weight capacities. Defective equipment will be taken out of service immediately and repaired or destroyed.
- The wheels of any trucks being loaded or unloaded will be choked to prevent movement. Outriggers will be fully extended on a flat, firm surface during operation.
- Personnel will not pass under a raised load, nor will a suspended load be left unattended.
- Personnel will not be carried on lifting equipment unless it is specifically designed to carry passengers.
- All reciprocating, rotating, or other moving parts will be guarded at all times.
- Accessible fire extinguishers, currently (monthly) inspected, will be available in all mechanical lifting devices.
- Verify all loads/materials are secure before transportation.

Material handling tasks that are unusual or require specific guidance will need a written addendum to this HASP. The addendum must identify the lifting protocols before the tasks are performed. Upon approval, the plan must be reviewed with all affected employees and documented. Any deviation from a written plan will require approval by the Langan HSM.

3.3.10 Hearing Conservation

Under the construction industry standard, the maximum permissible occupational noise exposure is 90 A-weighted decibels (dbA) (8-hour TWA), and noise levels in excess of 90 dbA must be reduced through feasible administrative and engineering controls (20 CFR 1926.52). Hearing protection is required when working within 15 feet of vacuum extraction equipment and drill rigs.

3.3.11 Open Water

Employees working over or near water, where the danger of drowning exists, must be provided with U.S. Coast Guard-approved life jackets or buoyant work vests. Prior to and after each use, the buoyant work vests or life preservers must be inspected for defects that would alter their strength or buoyancy. Defective units must not be used.

And should a worker fall into the water, OSHA requires (29 CFR 1926.106(c)) that ring buoys with at least 90 feet of the line must be provided and readily available for emergency rescue operations. The distance between ring buoys must not exceed 200 feet. Another remedial action required by OSHA (29 CFR 1926.106(d)) is the use of lifesaving skiffs.

OSHA requires that at least one lifesaving skiff must be immediately available at locations where employees are working over or adjacent to water and must include the following provisions.

- The skiff must be in the water or capable of being quickly launched by one person.
- At least one person must be present and specifically designated to respond to water emergencies and operate the skiff at all times when there are employees above water.
- When the operator is on break another operator must be designated to provide requisite coverage when there are employees above water.
- The designated operator must either have the skiff staffed at all times or have someone remain in the immediate area such that the operator can quickly reach the skiff and perform rescue services.
- The skiff operator may be assigned other tasks provided the tasks do not interfere with the operator's ability to quickly reach the skiff.
- A communication system, such as a walkie-talkie, must be used to inform the skiff operator of an emergency and to inform the skiff operator where the skiff is needed.
- The skiff must be equipped with both a motor and oars.

With regard to the number of skiffs required and the appropriate maximum response time, the following factors must be evaluated:

- The number of work locations where there is a danger of falling into water.
- The distance to each of those locations.

- Water temperature and currents.
- Other hazards such as, but not limited to, rapids, dams, and water intakes.

Other regulations that present H&S practices and PPE for work on or near water include: 29 CFR 1910, Subpart T (401 – 440)

3.4 Biological Hazards

3.4.1 Animals

There is a possibility of encountering wildlife including reptiles, rodents, and other small and medium-size mammals. Langan personnel are to avoid interacting with any wildlife.

3.4.2 Insects

Ticks and other biting or stinging insects may be encountered during site operations. Langan personnel should take necessary precautions including donning long sleeve shirts and insecticide to prevent bites and stings. After fieldwork, Langan personnel should perform a complete visual inspection of their clothing to insure they are not inadvertently harboring ticks. If they do observe a tick bite, they are to contact the HSM or HSO and report the event.

3.4.3 Plants

Poisonous plants may be encountered during site operations. Langan personnel should take necessary precautions including donning long sleeve shirts and applying preventative poison Ivy/Sumac lotion to prevent or limit the effects of exposure. If after fieldwork, Langan employees do observe a reaction to poisonous plant exposure, they are to contact the HSM or HSO and report the event.

3.4.4 Mold

This section is restricted to subsurface investigations where sampling soil, groundwater, soil or sub-slab vapor or ambient air in an indoor environment with slight to moderate mold impact. Mold exposure symptoms include nasal stuffiness, eye irritation, or wheezing.

The Langan field engineer is required to don a ½ face respirator with a minimum p-100 particulate filter and Tyvek™ type overclothing before entering mold impacted indoor work area. The Langan field engineer must be medically cleared and have been properly fitted for a respirator before donning one.

3.5 Additional Safety Analysis

3.5.1 Presence of Non-Aqueous Phase Liquids (NAPL)

Special care and PPE should be considered when NAPL is observed as NAPL is a typically flammable fluid and releases VOCs known to be toxic and/or carcinogenic. If NAPL is present in a monitoring well, vapors from the well casing may contaminate the work area breathing zone with concentrations of VOCs potentially exceeding health and safety action levels. In addition, all equipment used to monitor or sample NAPL (or ground water from wells containing NAPL) must be intrinsically safe. Equipment that directly contacts NAPL must also be resistant to organic solvents.

At a minimum, a PID should be used to monitor for VOCs when NAPL is observed. If NAPL is expected to be observed in an excavation or enclosed area, air monitoring must be started using calibrated air monitoring equipment designed to sound an audio alarm when atmospheric concentrations of VOC are within 10% of the LEL. In normal atmospheric oxygen concentrations, the LEL monitoring may be done with a Wheatstone bridge/catalytic bead type sensor (i.e., MultiRAE). However, in oxygen-depleted atmospheres (confined space), only an LEL designed to work in low-oxygen environments may be used. Best practices require that the LEL monitoring unit be equipped with a long sniffer tube to allow the LEL unit to remain outside the UST excavation.

When NAPL is present, Langan personnel are required to use disposable nitrile gloves at all times to prevent skin contact with contaminated materials. They should also consider having available a respirator and protective clothing (Tyvek® overalls), especially if NAPL is in abundance and there are high concentrations of VOCs.

All contaminated disposables including PPE and sampling equipment must be properly disposed of in labeled 55-gallon drums.

3.6 Job Safety Analysis

A Job Safety Analysis (JSA) is a process to identify existing and potential hazards associated with each job or task so these hazards can be eliminated, controlled, or minimized. A JSA will be performed at the beginning of each workday, and additionally whenever an employee begins a new task or moves to a new location. All JSAs must be developed and reviewed by all parties involved. A blank JSA form and documentation of completed JSAs are in Attachment G.

4.0 PERSONNEL TRAINING

4.1 Basic Training

Completion of an initial 40-hour HAZWOPER training program as detailed in OSHA's 29 CFR 1910.120(e) is required for all employees working on a site engaged in hazardous substance removal or other activities which expose or potentially expose workers to hazardous substances, health hazards, or safety hazards as defined by 29 CFR 1910.120(a). Annual 8-hour refresher training is also required to maintain competencies to ensure a safe work environment. In addition to these training requirements, all employees must complete the OSHA 10-hour Construction Safety and Health training and supervisory personnel must also receive eight additional hours of specialized management training. Training records are maintained by the HSM.

4.2 Initial Site-Specific Training

Training will be provided to specifically address the activities, procedures, monitoring, and equipment for site operations at the beginning of each field mobilization and the beginning of each discrete phase of work. The training will include the site and facility layout, hazards, and emergency services at the site, and will detail all the provisions contained within this HASP. For a HAZWOPER operation, training on the site must be for a minimum of 3 days. Specific issues that will be addressed include the hazards described in Section 3.0.

4.3 Tailgate Safety Briefings

Before starting work each day or as needed, the Langan HSO will conduct a brief tailgate safety meeting to assist site personnel in conducting their activities safely. Tailgate meetings will be documented in Attachment H. Briefings will include the following:

- Work plan for the day.
- Review of safety information relevant to planned tasks and environmental conditions.
- New activities/tasks being conducted.
- Results of Jobsite Safety Inspection Checklist.
- Changes in work practices.
- Safe work practices; and
- Discussion and remedies for noted or observed deficiencies.

5.0 MEDICAL SURVEILLANCE

All personnel who will be performing fieldwork involving potential exposure to toxic and hazardous substances (defined by 29 CFR 1910.120(a)) will be required to have passed an initial baseline medical examination, with follow-up medical exams thereafter, consistent with 29 CFR

1910.120(f). Medical evaluations will be performed by, or under the direction of, a physician board-certified in occupational medicine.

Additionally, personnel who may be required to perform work while wearing a respirator must receive medical clearance as required under CFR 1910.134(e), *Respiratory Protection*. Medical evaluations will be performed by, or under the direction of, a physician board-certified in occupational medicine. Results of medical evaluations are maintained by the HSM.

5.1 Mercury Monitoring

Langan includes medical monitoring for mercury during the initial baseline and annual physical.

5.2 Coronavirus

General Preventative Measures

Field personnel must follow general proper hygiene measures while in the field including:

- Avoid touching eyes, nose, and mouth.
- Cover coughs or sneezes with tissue and throw in the trash.
- Wash hands often with soap and water for 20 seconds after going to the bathroom, before eating, after blowing nose, coughing, or sneezing.
- Use hand sanitizer with at least 60% alcohol if soap and water are not available.
- Avoid physical contact with other people (e.g., no handshakes).
- Maintain a safe distance of at least six feet from other people (social distancing).
- Wear face coverings when around other workers to minimize the spread of COVID-19. (May be required in certain states or locations.)

Construction Trailers

Employees should avoid the use of shared construction trailers or where employees cannot maintain a safe distance (minimum 6 feet) from other workers. If trailer use is needed, areas such as desks, phones, chairs, and other common areas, should be cleaned and disinfected before and after use. Protocols should be developed to minimize trailer use to essential personnel, restrict use from any workers who are ill or showing symptoms of being ill, use face coverings and ensure a safe distance of six feet can be established between workers.

Communication

Include Coronavirus topics and prevention topics in daily tailgate meetings to ensure Coronavirus awareness is communicated daily. Discussions can focus on general topics including social

distancing, prevention measures for field personnel, signs and symptoms, and recent news on the Coronavirus. Site-specific topics should include minimizing face-to-face contact, disinfecting/sterilizing field equipment, use of PPE to reduce exposure, site security, use of face coverings, and other potential exposure issues/concerns.

Sick/Ill Workers

No Langan employee is permitted to be onsite when ill and/or showing potential symptoms of the Coronavirus. Symptoms of the Coronavirus may appear 2-14 days after exposure and can range from mild to severe. The most common symptoms include fever, fatigue, dry cough, shortness of breath chills, repeated shaking with chills, muscle pain, headache, sore throat, or new loss of taste or smell. If an employee or subcontractor is observed being ill or exhibiting symptoms of Coronavirus, employees must immediately utilize their Stop Work Authority and contact their project manager to address the situation. If an employee observes another worker onsite exhibiting symptoms of Coronavirus, immediately utilize Stop Work Authority, notify their project manager, and site construction manager or safety officer. Work should resume when the safety and health of Langan and subcontractors is adequately addressed.

6.0 PERSONAL PROTECTIVE EQUIPMENT

6.1 Levels of Protection

Langan will provide PPE to Langan employees to protect them from the specific hazards they are likely to encounter on-site. Directly hired contractors will provide their employees with equivalent PPE to protect them from the specific hazards likely to be encountered on-site. Selection of the appropriate PPE must take into consideration: (1) identification of the hazards or suspected hazards; (2) potential exposure routes; and (3) the performance of the PPE construction (materials and seams) in providing a barrier to these hazards.

Human exposure to contaminants found in the subsurface can occur through three primary routes:

- Inhalation of gases, vapors, dust, or mists is a common route of exposure. Chemicals can enter and irritate the airways and the lungs. They can become deposited in the airways or can be absorbed through the lungs into the bloodstream.
- Direct contact of contaminants with the skin or eyes is a common route of exposure. Some substances are absorbed through the skin and can enter the bloodstream. Broken, cut, or cracked skin will allow substances to enter the body more easily.
- Ingestion or swallowing of food, drink, or other substances is the third route of exposure. Chemicals that get in or on food, utensils, or hands can be ingested. Substances can be

absorbed into the blood.

Based on anticipated site conditions and the proposed work activities to be performed at the site, Level D protection will be used. The upgrading/downgrading of the level of protection will be based on continuous air monitoring results as described in Section 6.0 (when applicable). The decision to modify standard PPE will be made by the site HSO or FTL after conferring with the PM. The levels of protection are described below.

Level D Protection (as needed)

- Safety glasses with side shields or chemical splash goggles
- Safety boots/shoes
- Coveralls (Tyvek® or equivalent)
- Hard hat
- Long sleeve work shirt and work pants
- Nitrile gloves
- Hearing protection
- Reflective safety vest

Level D Protection (Modified, as needed)

- Safety glasses with side shields or chemical splash goggles
- Safety boots/shoes (toe-protected)
- Disposable chemical-resistant boot covers.
- Coveralls (poly-coated Tyvek or equivalent to be worn when contact with wet contaminated soil, groundwater, or non-aqueous phase liquids is anticipated)
- Hard hat
- Long sleeve work shirt and work pants
- Nitrile gloves
- Hearing protection (as needed)
- Personal floatation device (for work within 5 ft of the water)
- Reflective traffic vest

Level C Protection (as needed)

- Full or Half face, air-purifying respirator, with NIOSH approved High-Efficiency Particulate Air (HEPA) filter.
- Inner (latex) and outer (nitrile) chemical-resistant gloves
- Safety glasses with side shields or chemical splash goggles
- Chemical-resistant safety boots/shoes

- Hard hat
- Long sleeve work shirt and work pants
- Coveralls (Tyvek® or equivalent)
- Hearing protection (as needed)
- Reflective safety vest

The action levels used in determining the necessary levels of respiratory protection and upgrading to Level C are summarized in Table 4. The written Respiratory Protection Program is maintained by the HSM and is available if needed. The monitoring procedures and equipment are outlined in Section 6.0 (when applicable).

6.2 Respirator Fit-Test.

All Langan employees who may be exposed to hazardous substances at the work site must be in possession of a full or half face piece air-purifying respirator and have been successfully fit-tested within the past year. Fit-test records are maintained by the HSM.

6.3 Respirator Cartridge Change-Out Schedule

Respiratory protection is required to be worn when certain action levels (Table 2) are reached. A respirator cartridge change-out schedule has been developed to comply with 29 CFR 1910.134. The respirator cartridge change-out schedule for this project is as follows:

- Cartridges must be removed and disposed of at the end of each shift when cartridges become wet or the wearer experiences a breakthrough, whichever occurs first.
- If the humidity exceeds 85%, then cartridges must be removed and disposed of after 4 hours of use.

Respirators must not be stored at the end of the shift with contaminated cartridges left on. Cartridges must not be worn on the second day, no matter how short the time period was the previous day they were used.

7.0 AIR QUALITY MONITORING AND ACTIONS LEVELS

7.1 Monitoring During Site Operations

Atmospheric air monitoring results may be collected and used to provide data to determine when exclusion zones need to be established and when certain levels of personal protective equipment are required. For all instruments, there are Site-specific action-level criteria that are used in making field health and safety determinations. Other data, such as the visible presence of contamination or the steady state nature of air contaminant concentration, are also used in making field health and safety decisions. Therefore, the HSO may establish an exclusion zone

or require a person to wear a respirator even though atmospheric air contaminant concentrations are below established HASP action levels.

During site work involving disturbance of petroleum-impacted or fill material, real-time air monitoring may be conducted for methane and VOCs. A MultiRAE LEL/Oxygen (O2) meter and FID will be used to monitor the LEL of methane, and a PID and/or FID will be used to monitor concentrations of VOCs at personnel breathing-zone height. Air monitoring will be the responsibility of the HSO or designee. Air monitoring may be conducted during intrusive activities associated with the completion of excavation, debris removal, and soil grading. All manufacturers' instructions for instrumentation and calibration will be available onsite.

Subcontractors' air monitoring plans must be equal to or more stringent than the Langan plan.

An air monitoring calibration log is provided in Attachment D of this HASP.

7.1.1 Volatile Organic Compounds

Monitoring with a PID, such as a MiniRAE 2000 (10.6v) or equivalent may occur during intrusive work in the Areas of Concern (AOCs). Colorimetric Indicator Tubes for benzene may be used as a backup for the PID if measurements remain above background monitor every 2 hours. The HSO will monitor the employee's breathing zone <u>at least</u> every 30 minutes, or whenever there is any indication that concentrations may have changed (odors, visible gases, etc.) since the last measurement. If VOC levels are observed above 5 ppm for longer than 5 minutes or if the site PPE is upgraded to Level C, the HSO will begin monitoring the site perimeter at a location downwind of the AOC every 30 minutes in addition to the employee breathing zone. Instrument action levels for monitored gases are provided in Table 4.

7.1.2 Metals

Based upon the site historical fill, there is a potential for the soils to contain Polycyclic Aromatic Hydrocarbons (PAHs) and metals. During invasive procedures which have the potential for creating airborne dust, such as excavation of dry soils, a real-time airborne dust monitor such as a Mini-Ram may be used to monitor for air particulates. The HSO will monitor the employee's breathing zone <u>at least</u> every 30 minutes, or whenever there is any indication that concentrations may have changed (appearance of visible dust) since the last measurement. If dust levels are observed to be greater than 0.100 milligrams per cubic meter (mg/m^3) or visible dust is observed for longer than 15 minutes or if the site PPE is upgraded to Level C, the HSO will begin monitoring the site perimeter at a location downwind of the AOC every 30 minutes in addition to the employee breathing zone. Instrument action levels for dust monitoring are provided in Table 4.

7.1.3 Methane

During soil excavation or other intrusive activities, direct reading air monitoring may be performed in the excavation area to determine exposure to workers. Monitoring with an LEL/O2 meter and FID may occur during intrusive work in the AOCs. The HSO will monitor the employee's breathing zone at least hourly during intrusive activities. If LEL levels are observed above 20% the professional engineer (PE) or their designee will stop work and evacuate the area; warn others; and determine source of readings and take corrective actions. The Contractor will be responsible for mitigating explosive gas levels.

7.2 Monitoring Equipment Calibration and Maintenance

Instrument calibration must be documented and included in a dedicated safety and health logbook or on separate calibration pages of the field book. All instruments must be calibrated before and after each shift. Calibration checks may be used during the day to confirm instrument accuracy. Duplicate readings may be taken to confirm individual instrument responses.

All instruments must be operated in accordance with the manufacturers' specifications. Manufacturers' literature, including an operation manual for each piece of monitoring equipment, will be maintained on-site by the HSO for reference.

7.3 Determination of Background Levels

Background (BKD) levels for VOCs, dust, and methane will be established prior to intrusive activities within the AOC at an upwind location. A notation of BKD levels will be referenced in the daily monitoring log. BKD levels are a function of prevailing conditions. BKD levels will be taken in an appropriate upwind location as determined by the HSO.

Table 4 lists the instrument action levels.

8.0 COMMUNITY AIR MONITORING PROGRAM

Community air monitoring may be conducted in compliance with local standards. If conducted, Langan will implement the generic CAMP outlined below amended to comply with local conditions or standards:

Monitoring for dust and odors will be conducted during all ground intrusive activities by the FTL. Continuous monitoring of the perimeter of the work zones for odor, VOCs, and dust may be required for all ground intrusive activities such as soil excavation and handling activities. The work zone is defined as the general area in which machinery is operating in support of remediation activities. A portable PID will be used to monitor the work zone and for periodic monitoring for VOCs during activities such as soil and groundwater sampling and soil excavation.

The site perimeter will be monitored for fugitive dust emissions by visual observations as well as instrumentation measurements (if required). When required, particulate or dust will be monitored continuously with real-time field instrumentation that will meet, at a minimum, the local standards or, default to the performance standards below:

If VOC monitoring is required, the following actions will be taken based on VOC levels measured:

- If total VOC levels exceed 5 ppm above background for the 15-minute average at the perimeter, work activities will be temporarily halted and monitoring continued. If levels readily decrease (per instantaneous readings) below 5 ppm above background, work activities will resume with continued monitoring.
- If total VOC levels at the downwind perimeter of the hot zone persist at levels in excess of 5 ppm above background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps work activities will resume provided that the total organic vapor level is 200 feet downwind of the hot zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less – but in no case less than 20 feet, is below 5 ppm above background for the 15-minute average.
- If the total VOC level is above 25 ppm at the perimeter of the hot zone, activities will be shut down.

If dust monitoring with field instrumentation is required, the following actions will be taken based on instrumentation measurements:

- If the downwind particulate level is 100 micrograms per cubic meter (µg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression must be employed. Work may continue with dust suppression techniques provided that downwind particulate matter less than 10 microns (PM10) levels do not exceed 150 µg/m^3 above the background level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM10 levels are greater than 150 µg/m^3 above the background level, work must be stopped, and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM10 concentration to within 150 µg/m^3 of the upwind level and in preventing visible dust migration.

8.1 Dust Suppression Techniques

Preventative measures for dust generation may include wetting site fill and soil, construction of

an engineered construction entrance with a gravel pad, a truck wash area, covering soils with tarps, and limiting vehicle speeds to five miles per hour.

Work practices to minimize odors and vapors include limiting the time that the excavations remain open, minimizing stockpiling of contaminated-source soil, and minimizing the handling of contaminated material. Offending odor and organic vapor controls may include the application of foam suppressants or tarps over the odor or VOC source areas. Foam suppressants may include biodegradable foams applied over the source material for short-term control of the odor and VOCs.

If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include direct load-out of soils to trucks for off-site disposal; use of chemical odorants in spray or misting systems; and use of staff to monitor odors in surrounding neighborhoods.

Where odor nuisances have developed during remedial work and cannot be corrected, or where the release of nuisance odors cannot otherwise be avoided due to on-site conditions or proximity to sensitive receptors, odor control will be achieved by sheltering excavation and handling areas under tented containment structures equipped with appropriate air venting/filtering systems.

9.0 WORK ZONES AND DECONTAMINATION

9.1 Site Control

Work zones are intended to control the potential spread of contamination throughout the site and to assure that only authorized individuals are permitted into potentially hazardous areas.

Any person working in an area where the potential for exposure to site contaminants exists will only be allowed access after providing the HSO with proper training and medical documentation.

Exclusion Zone (EZ) - All activities which may involve exposure to site contaminants, hazardous materials, and/or conditions should be considered an EZ. Decontamination of field equipment will also be conducted in the Contaminant Reduction Zone (CRZ) which will be located on the perimeter of the EZ. The EZ and the CRZ will be delineated by cones, tapes, or other means. The HSO may establish more than one EZ where different levels of protection may be employed, or different hazards exist. The size of the EZ must be determined by the HSO allowing adequate space for the activity to be completed, field members, and emergency equipment.

9.2 Contamination Zone

9.2.1 Personnel Decontamination Station

Personal hygiene, coupled with diligent decontamination, will significantly reduce the potential for exposure.

9.2.2 Minimization of Contact with Contaminants

During the completion of all site activities, personnel should attempt to minimize the chance of contact with contaminated materials. This involves a conscientious effort to keep "clean" during site activities. All personnel should minimize kneeling, splash generation, and another physical contact with contamination as PPE is intended to minimize accidental contact. This may minimize the degree of decontamination required and the generation of waste materials from site operations.

Field procedures will be developed to control spray and runoff and to ensure that unprotected personnel working nearby are not affected.

9.2.3 Personnel Decontamination Sequence

Decontamination may be performed by removing all PPE used in EZ and placing it in drums/trash cans at the CRZ. Baby wipes should be available for wiping hands and face. Drums/trash cans-will be labeled by the field crews in accordance with all local, state, and federal requirements. Management plans for contaminated PPE, and tools are provided below.

9.2.4 Emergency Decontamination

If circumstances dictate that contaminated clothing cannot be readily removed, then remove gross contamination and wrap injured personnel with clean garments/blankets to avoid contaminating other personnel or transporting equipment. If the injured person can be moved, he/she will be decontaminated by site personnel as described above before emergency responders handle the victim. If the person cannot be moved because of the extent of the injury (a back or neck injury), provisions must be made to ensure that emergency response personnel will be able to respond to the victim without being exposed to potentially hazardous atmospheric conditions. If the potential for inhalation hazards exists, such as with open excavation, this area will be covered with polyethylene sheeting to eliminate any potential inhalation hazards. All emergency personnel should be immediately informed of the injured person's condition, and potential contaminants, and provided with all pertinent data.

9.2.5 Hand-Held Equipment Decontamination

Hand-held equipment includes all monitoring instruments as stated earlier, samples, hand tools, and notebooks. The hand-held equipment is dropped at the first decontamination station to be decontaminated by one of the decontamination team members. These items must be decontaminated or discarded as waste prior to removal from the CRZ.

To aid in decontamination, monitoring instruments can be sealed in plastic bags or wrapped in polyethylene. This will also protect the instruments against contaminants. The instruments will be wiped clean using wipes or paper towels if contamination is visually evident. Sampling equipment, hand tools, etc. will be cleaned with non-phosphorous soap to remove any potentially contaminated soil and rinsed with deionized water. All decontamination fluids will be containerized and stored on-site pending waste characterization sampling and appropriate off-site disposal.

9.2.6 Heavy Equipment Decontamination

All heavy equipment and vehicles arriving at the work site will be free from contamination from offsite sources. Any vehicles arriving to work that are suspected of being impacted will not be permitted on the work site. Potentially contaminated heavy equipment will not be permitted to leave the EZ unless it has been thoroughly decontaminated and visually inspected by the HSO or his designee.

9.3 Support Zone

The support zone or cold zone will include the remaining areas of the job site. Break areas and support facilities (including equipment storage and maintenance areas) will be located in this zone. No equipment or personnel will be permitted to enter the cold zone from the hot zone without passing through the decontamination station in the warm zone (if necessitated). Eating, smoking, and drinking will be allowed only in this area.

9.4 Communications

The following communications equipment will be utilized as appropriate.

- Telephones - A cellular telephone will be located with the HSO for communication with the HSM and emergency support services/facilities.

- Hand Signals - Hand signals must be used by field teams, along with the buddy system. The entire field team must know them before operations commence and their use covered during site-specific training. Typical hand signals are the following:

Hand Signal	Meaning
Hand gripping throat	Out of air, cannot breathe
Grip your partner's wrists or place both hands around the waist	Leave immediately without debate
Hands on top of head	Need assistance
Thumbs up	OK; I am all right; I understand
Thumbs down	No; negative
Simulated "stick" break with fists	Take a break; stop work

9.5 The Buddy System

When working in teams of two or more, workers will use the "buddy system" for all work activities to ensure that rapid assistance can be provided in the event of an emergency. This requires work groups to be organized such that workers can remain close together and maintain visual contact with one another. Workers using the "buddy system" have the following responsibilities:

- Provide his/her partner with assistance.
- Observe his/her partner for signs of chemical or heat exposure.
- Periodically check the integrity of his/her partner's PPE.
- Notify the HSO or other site personnel if emergency service is needed.

10.0 NEAREST MEDICAL ASSISTANCE

The address and telephone number of the nearest hospital:

Montefiore Jack D. Weller Hospital/Einstein Campus
1825 Eastchester Road
Bronx, New York
718-904-2800

A map with directions to the hospital is shown in Figure 2. This information will either be posted prominently at the site or will be available to all personnel all of the time. Further, all field personnel, including the HSO & FTL, will know the directions to the hospital.

11.0 STANDING ORDERS/SAFE WORK PRACTICES

The standing orders, which consist of a description of safe work practices that must always be followed while on-site by Langan employees and contractors, are shown in Attachment A. The site HSO and FTL each have the responsibility for enforcing these practices. The standing orders

will be posted prominently at the site or are made available to all personnel at all times. Those who do not abide by these safe work practices will be removed from the site.

12.0 SITE SECURITY

No unauthorized personnel must be permitted access to the work areas.

13.0 UNDERGROUND UTILITIES

As provided in Langan's Underground Utility Clearance Guidelines, the following safe work practices should be followed by Langan personnel and the contractor before and during subsurface work in accordance with federal, state, and local regulations:

- Obtain available utility drawings from the property owner/client or operator.
- Provide utility drawings to the project team.
- In the field, mark the proposed area of subsurface disturbance (when possible).
- Ensure that the utility clearance system has been notified.
- Ensure that utilities are marked before beginning subsurface work.
- Discuss subsurface work locations with the owner/client and contractors.
- Obtain approval from the owner/client and operators for proposed subsurface work locations.
- Use safe digging procedures when applicable.
- Stay at least 10 feet from all equipment performing subsurface work.

14.0 SITE SAFETY INSPECTION

The Langan HSO or alternate will check the work area daily, at the beginning and end of each work shift, or more frequently to ensure safe work conditions. The HSO or alternate must complete the Jobsite Safety Inspection Checklist, found in Attachment F. Any deficiencies must be shared with the FTL, HSM, and PM and will be discussed at the daily tailgate meeting.

15.0 HAND AND POWER TOOLS

All hand- and electric-power tools and similar equipment must be maintained in a safe operating condition. All electric-power tools must be inspected before initial use. Damaged tools must be removed immediately from service or repaired. Tools must be used only for the purpose for which they were designed. All users must be properly trained in their safe operation.

16.0 EMERGENCY RESPONSE

16.1 General

This section establishes procedures and provides information for use during a project emergency. Emergencies happen unexpectedly and quickly, and require an immediate response; therefore, contingency planning and advanced training of staff is essential. Specific elements of emergency support procedures that are addressed in the following subsections include communications, local emergency support units, and preparation for medical emergencies, first aid for injuries incurred on site, record keeping, and emergency site evacuation procedures. In case of emergency, in addition to 911, call *WorkCare - Incident Intervention®* at 1-888-479-7787 to report their injuries. For all other communications, contact the Langan Incident Hotline at **973-560-4699** as soon as possible.

Should outside assistance be needed for accidents, fire, or release of hazardous substances, the emergency numbers will be available and posted at the site (Table 5) where a readily accessible telephone is made available for emergency use.

Also, in the event of an incident where a team member becomes exposed or suffers from an acute symptom from contact with site materials and has to be taken to a hospital, a short medical data sheet (Attachment C) for that individual will be made available to the attending physician. The medical data sheet will include the following:

- Name, address, home phone
- Age, height, weight
- Name of person to be notified in case of an accident.
- Allergies
- Particular sensitivities
- Does he/she wear contact lenses?
- Short checklist of previous illness
- Name of personal physician and phone
- Name of company physician and phone
- Prescription and non-prescription medications currently used.

An incident reporting form is included in Attachment C.

16.2 Responsibilities

16.2.1 Construction Health and Safety Officer (HSO)

The HSO is responsible for ensuring that all personnel are evacuated safely, and that machinery and processes are shut down or stabilized in the event of a stop work order or evacuation. The

HSO is responsible for ensuring the HSM is notified of all incidents, all injuries, near misses, fires, spills, releases, or equipment damage. The HSO is required to immediately notify the HSM of any fatalities or catastrophes (three or more workers injured and hospitalized) so that the HSM can notify OSHA within the required time limit.

16.2.2 Emergency Coordinator

The HSO or their designated alternate will serve as the Emergency Coordinator. The Emergency Coordinator is responsible for ensuring that all personnel are evacuated safely, and that machinery and processes are shut down or stabilized in the event of a stop work order or evacuation. They are also responsible for ensuring the HSM is notified of all incidents, all injuries, near misses, fires, spills, releases, or equipment damage. The Emergency Coordinator is required to immediately notify the HSM of any fatalities or catastrophes (three or more workers injured and hospitalized.

The Emergency Coordinator must locate emergency phone numbers and identify hospital routes prior to beginning work on the sites. The Emergency Coordinator must make necessary arrangements to be prepared for any emergencies that could occur.

The Emergency Coordinator is responsible for implementing the Emergency Response Plan.

16.2.3 Site Personnel

Project site personnel are responsible for knowing the Emergency Response Plan and the procedures contained herein. All personnel are expected to notify the Emergency Coordinator of situations that could constitute a site emergency. Project site personnel, including all subcontractors, will be trained in the Emergency Response Plan.

16.3 Communications

Once an emergency situation has been stabilized, the injured Langan personnel should contact *WorkCare - Incident Intervention®* at 1-888-479-7787 to report their injuries. For all other communications, contact the Langan Incident Hotline at **973-560-4699** as soon as possible.

16.4 Local Emergency Support Units

In order to be able to deal with any emergency that might occur during investigative activities at the site, the Emergency Notification Numbers (Table 5) will be posted and provided to all personnel conducting work within the EZ.

Figure 2 shows the hospital route map. Outside emergency number 911 and local ambulance should be relied on for response to medical emergencies and transport to emergency rooms. Always contact first responders when there are serious or life-threatening emergencies on the

site. Project personnel are instructed not to drive injured personnel to the Hospital. In the event of an injury, provide first aid and keep the injured party calm and protected from the elements, and treat for shock when necessary.

16.5 Pre-Emergency Planning

Langan will communicate directly with administrative personnel from the emergency room at the hospital to determine whether the hospital has the facilities and personnel needed to treat cases of trauma resulting from any of the contaminants expected to be found on the site. Instructions for finding the hospital will be posted conspicuously in the site office and each site vehicle.

16.6 Emergency Medical Treatment

The procedures and rules in this HASP are designed to prevent employee injury. However, if an injury occurs, no matter how slight, it will be reported to the HSO immediately. First-aid equipment will be available on-site at the following locations:

- First Aid Kit: Contractor Vehicles
- Emergency Eye Wash: Contractor Vehicles

During the site safety briefing, project personnel will be informed of the location of the first aid station(s) that has been set up. Some injuries, such as severe cuts and lacerations or burns, may require immediate treatment. First-aid instructions provided from off-site doctors or paramedics, before an emergency-response squad arrives at the site or before the injured person can be transported to the hospital, will be followed closely. Only in non-emergency situations may an injured person be transported to an urgent care facility. Due to hazards that may be present at the site and the conditions under which operations are conducted, an emergency may develop. Emergencies can be characterized as injury or acute chemical exposure to personnel, fire or explosion, environmental release, or hazardous weather conditions.

16.8 Emergency Site Evacuation Routes and Procedures

All project personnel will be instructed on proper emergency response procedures and locations of emergency telephone numbers during the initial site safety meeting. If an emergency occurs as a result of the site investigation activities, including but not limited to fire, explosion, or significant release of toxic gas into the atmosphere, the Langan Project Manager will be verbally notified immediately. All heavy equipment will be shut down and all personnel will evacuate the work areas and assemble at the nearest intersection to be accounted for and to receive further instructions.

If an emergency arises, the FTL will implement an immediate evacuation of all project personnel due to immediate or impending danger. The FTL will also immediately communicate with the contractor to coordinate any needed evacuation of the property.

The FTL or Site Supervisor will give necessary instructions until the Designated Incident Commander (IC) assumes control. After the emergency has been resolved, the FTL or Site Supervisor will coordinate with the IC and indicate when staff should resume their normal duties. If dangers are present for those at the designated assembly point, another designated location of assembly will be established.

It will be the responsibility of the FTL or Site Supervisor to report a fire or emergency, assess the seriousness of the situation, and initiate emergency measures until the arrival of the local fire fighters or other first responders, should they be necessary. The FTL, working with emergency responders, may also order the closure of the Site for an indefinite period as long as it is deemed necessary.

Under no circumstances will incoming visitors be allowed to proceed to the area of concern once an emergency evacuation has been implemented. Visitors or other persons present in the area of the emergency must be instructed to evacuate the area. The FTL will ensure that access roads are not obstructed and will remain on-site to provide stand-by assistance upon the arrival of emergency personnel.

If it is necessary to temporarily control traffic in the event of an emergency, those persons controlling traffic will wear proper reflection warning vests until the arrival of police or fire personnel.

16.8.1 Designated Assembly Locations

All personnel will evacuate the site and assemble at a designated assembly location. The assembly location will be designated by Langan personnel and discussed during each shift's pre-job safety briefing.

16.8.2 Accounting for Personnel

All contractor and subcontractor supervisors are responsible for the accounting of all personnel assembled at the designed assembly area. The Designated Incident Commander must be notified if personnel are not found.

16.9 Fire Prevention and Protection

In the event of a fire or explosion, procedures will include immediately evacuating the site and notification of the Langan Project Manager of the investigation activities. Portable fire

extinguishers will be provided at the work zone. The extinguishers located in the various locations should also be identified prior to the start of work. No personnel will fight a fire beyond the stage where it can be put out with a portable extinguisher (incipient stage).

16.9.1 Fire Prevention

Fires will be prevented by adhering to the following precautions:

- Good housekeeping and storage of materials.
- Storage of flammable liquids and gases away from oxidizers.
- Shutting off engines to refuel.
- Grounding and bonding metal containers during transfer of flammable liquids.
- Use of UL approved flammable storage cans.
- Fire extinguishers rated at least 10 pounds ABC located on all heavy equipment, in all trailers and near all hot work activities.

The person responsible for the control of fuel source hazards and the maintenance of fire prevention and/or control equipment is the HSO.

16.10 Significant Vapor Release

Based on the proposed tasks, the potential for a significant vapor release is low. However, if a release occurs, the following steps will be taken:

- Move all personnel to an upwind location. All non-essential personnel must evacuate.
- Upgrade to Level C Respiratory Protection.
- Downwind perimeter locations must be monitored for volatile organics.
- If the release poses a potential threat to human health or the environment in the community, the Emergency Coordinator must notify the Langan Project Manager.
- Local emergency response coordinators will be notified.

16.11 Overt Chemical Exposure

The following are standard procedures to treat chemical exposures. Other, specific procedures detailed on the Material Safety Data Sheet (MSDS) will be followed, when necessary.

SKIN AND EYE: Use copious amounts of soap and water from eye-wash kits and portable hand-wash stations.

CONTACT: Wash/rinse affected areas thoroughly, then provide appropriate medical attention. Skin must also be rinsed for 15 minutes if contact with caustics, acids, or hydrogen peroxide occurs. Affected items of clothing must also be removed from contact with skin.

Providing wash water and soap will be the responsibility of each individual contractor or subcontractor on-site.

16.12 Decontamination during Medical Emergencies

If emergency lifesaving first aid and/or medical treatment is required, normal decontamination procedures may need to be abbreviated or omitted. The HSO or designee will accompany contaminated victims to the medical facility to advice on matters involving decontamination when necessary. The outer garments can be removed if they do not cause delays, interfere with treatment, or aggravate the problem. Respiratory equipment must always be removed. Protective clothing can be cut away. If the outer contaminated garments cannot be safely removed on site, a plastic barrier placed between the injured individual and clean surfaces should be used to help prevent contamination of the inside of ambulances and/or medical personnel. Outer garments may then be removed at the medical facility. No attempt will be made to wash or rinse the victim if his/her injuries are life threatening unless it is known that the individual has been contaminated with an extremely toxic or corrosive material which could also cause severe injury or loss of life to emergency response personnel. For minor medical problems or injuries, normal decontamination procedures will be followed.

16.13 Adverse Weather Conditions

In the event of adverse weather conditions, the HSO will determine if work will continue without potentially risking the safety of all field workers. Some of the items to be considered prior to determining if work should continue are:

- Potential for heat stress and heat-related injuries.
- Potential for cold stress and cold-related injuries.
- Treacherous weather-related working conditions (hail, rain, snow, ice, high winds).
- Limited visibility (fog).
- Potential for electrical storms.
- Earthquakes.
- Other major incidents.

Site activities will be limited to daylight hours, or when suitable artificial light is provided, and acceptable weather conditions prevail. The HSO will determine the need to cease field operations or observe daily weather reports and evacuate, if necessary, in case of severe inclement weather conditions.

16.14 Spill Control and Response

All small spills/environmental releases must be contained as close to the source as possible. Whenever possible, the MSDS will be consulted to assist in determining proper waste characterization and the best means of containment and cleanup. For small spills, sorbent materials such as sand, sawdust, or commercial sorbents should be placed directly on the substance to contain the spill and aid recovery. Any acid spills should be diluted or neutralized carefully prior to attempting recovery. Berms of earthen or sorbent materials can be used to contain the leading edge of the spills. All spill containment materials will be properly disposed of. An exclusion zone of 50 to 100 feet around the spill area should be established depending on the size of the spill.

All contractor vehicles must have spill kits on them with enough material to contain and absorb the worst-case spill from that vehicle. All vehicles and equipment must be inspected prior to being admitted on-site. Any vehicle or piece of equipment that develops a leak will be taken out of service and removed from the job site.

The following seven steps must be taken by the Emergency Coordinator:

1. Determine the nature, identity, and amounts of major spills.
2. Make sure all unnecessary persons are removed from the spill area.
3. Notify the HSO immediately.
4. Use proper PPE in consultation with the HSO.
5. If a flammable liquid, gas, or vapor is involved, remove all ignition sources, and use non-sparking and/or explosion-proof equipment to contain or clean up the spill (diesel-only vehicles, air-operated pumps, etc.)
6. If possible, try to stop the leak with the appropriate material.
7. Remove all surrounding materials that can react or compound with the spill.

In addition to the spill control and response procedures described in this HASP, Langan personnel will coordinate with the designated project manager relative to spill response and control actions. Notification to the Project Manager must be immediate and, to the extent possible, include the following information:

- Time and location of the spill.
- Type and nature of the material spilled.
- Amount spilled.
- Whether the spill has affected or has a potential to affect a waterway or sewer.
- A brief description of affected areas/equipment.
- Whether the spill has been contained.

- Expected time of cleanup completion. If spill cleanup cannot be handled by Langan's on-site personnel alone, such fact must be conveyed to the Project Manager immediately.

Langan field personnel must notify the project manager when they observe a spill or encounter conditions suggesting one might have occurred.

16.15 Emergency Equipment

The following minimum emergency equipment must be kept and maintained on site:

- Industrial first aid kit.
- Fire extinguishers (one per site).

16.16 Restoration and Salvage

After an emergency, prompt restoration of utilities, fire protection equipment, medical supplies, and other equipment will reduce the possibility of further losses. Some of the items that may need to be addressed are:

- Refilling fire extinguishers.
- Refilling medical supplies.
- Recharging eyewashes and/or showers.
- Replenishing spill control supplies.

16.17 Documentation

Immediately following an incident or near miss, unless emergency medical treatment is required, either the employee or a coworker must contact the Langan Incident/Injury Hotline at 1-(800)-9-LANGAN (extension 4699) and the client representative to report the incident or near miss. For emergencies involving personnel injury and/or exposure, the HSO and affected employee will complete and submit an Employee Exposure/Injury Incident Report (Attachment C) to the Langan Corporate Construction Health and Safety Manager as soon as possible following the incident.

17.0 SPECIAL CONDITIONS

This guideline contains information and requirements for special conditions that may not be routinely encountered.

17.1 Scope

The guideline applies to the specific projects identified within this document. Additional provisions will be addressed in each Site-Specific Health and Safety Plan (HASP), as needed.

17.2 Responsibilities

Site Personnel - All site personnel must be alert to safety hazards on work sites and take action to minimize such hazards. Personnel must utilize the buddy system, watch for inappropriate behavior, and be alerted to changes in site conditions.

Construction Health and Safety Officer (HSO) - The HSO is responsible for considering these procedures in the development of site-specific HASPs. The HSO must schedule frequent "tail gate" safety briefings to enhance safety awareness and discuss potential problems.

17.3 Procedures

The procedures outlined below must be followed when such conditions are encountered.

17.3.1 Ladders

Langan safety procedures must be used to ensure employee safety when using ladders in the office or work sites. All ladders must be coated or repaired to prevent injury to the employee from punctures or lacerations and to prevent snagging or clothing. Any wood ladders used must have an opaque covering except for identification or warning labels, which may be placed on one face only of a side rail.

17.3.1.1 Ladder Use

Employees must only use ladders for the purposes they were designed for and must not be used as scaffolding. Ladders will be maintained and inspected prior to use for slip hazards including oil and grease. Employees must use ladders only on stable and level surfaces unless the ladder is secured to prevent displacement. Ladders should not be used on slippery surfaces unless secured or provided with slip-resistant feet to prevent accidental displacement. Ladders should not be used in locations where they could be displaced by workplace activities or traffic. Ladder rungs, cleats and steps must be parallel, level and uniformly spaced when the ladder is in the use position.

Employees should not be carrying anything including equipment that could cause injury if there was a fall while utilizing the ladder. The top and bottom of the ladder area must remain clear while in use. When ascending and descending the ladder, employees must face the ladder.

Ladders must not be loaded beyond the maximum intended load for which they were built or the manufacturer's rated capacity.

17.3.1.2 Portable Ladders

Rungs, cleats, and steps for portable ladders and fixed ladders must be spaced not less than 10 inches apart, nor more than 14 inches apart, as measured between center lines of the rungs, cleats, and steps. When used to access an upper landing surface, the ladder side rails must extend at least three feet above the upper landing surface to which the ladder is used to gain access. If this is not possible, due to the length of the ladder, then the top of the ladder must be secured at its top to a rigid support.

17.3.1.3 Step Stools

Rungs, cleats, and steps of step stools must not be less than 8 inches apart, nor more than 12 inches apart, as measured between center lines of the rungs, cleats, and steps.

17.3.1.4 Extension Ladders

Rungs, cleats, and steps of the base section of extension trestle ladders must be spaced not less than 8 inches apart, nor more than 18 inches apart, as measured between center lines of the rungs, cleats, and steps. The rung spacing on the extension section of the extension trestle ladder must not be less than 6 inches nor more than 12 inches, as measured between the center lines of the rungs, cleats and steps. Ladders must be used at an angle such that the horizontal distance from the top support to the foot of the ladder is approximately one-quarter of the working length of the ladder (the distance along the ladder between the foot and the top support).

17.3.1.5 Inspection

Ladders will be inspected for visible detects periodically, prior to utilization or after any occurrence that could have negatively affected the ladder. Portable ladders with defects including broken or missing rungs, cleats, or steps, broken or split rails, corroded components, or other faulty components must not be used. The ladder will be immediately marked as defective, tagged as "Do Not Use" or blocked from being used and removed from service until repaired.

17.3.2 First Aid/Cardiopulmonary Resuscitation (CPR)

Langan field and office personnel will be encouraged to be trained in First Aid and Cardiopulmonary Resuscitation (CPR). Training will be provided free of charge by Langan to all employees. Employees will receive a training certificate that will be kept on file with the Health & Safety Coordinator (HSC). Training and certification will be provided by a credited provider such as American Red Cross or equivalent.

17.3.2.1 Emergency Procedures

Prior to site work, the Langan employees certified in first aid and CPR will be identified in the site-specific HASP. Langan will endear to have at least one employee at a job site trained and able to render first aid and CPR. The site-specific HASP will contain first aid information on both potential chemical and physical hazards. Emergency procedures to be followed in case of injury or illnesses are provided in the HASP. The HASP will include emergency contact information including local police and fire departments, hospital emergency rooms, ambulance services, on-site medical personnel, and physicians. The HASP will also include directions and contact information for the nearest emergency facility in case immediate medical attention is required. The emergency contact information will be conspicuously posted at the worksite. Employees that are injured and require immediate medical attention must call either 911 or the local posted emergency contacts. Employees should use ambulatory services to transport injured workers to the nearest facility for emergency medical care. In areas where 911 is not available, the telephone numbers of physicians, hospitals, or ambulances must be conspicuously posted.

17.3.2.2 First Aid Supplies

First aid supplies are readily available to all Langan employees when required. First aid kits are located in each Langan office. Portable first aid kits are available for employees to use at work sites. First aid kits should consist of items needed to treat employees for potential chemical and physical injuries. At a minimum, first aid kits should contain items to allow basic first aid to be rendered. Where the eyes or body of an employee may be exposed to corrosive materials, suitable facilities for quick drenching or flushing of the eyes and body must be provided within the work area for immediate emergency use including eye wash.

First aid kits will be weatherproof with individually sealed packages of each item. All portable first aid kits must be inspected by Langan employees before and after use to ensure all used items are replaced. When out in the field, employees must check first aid kits weekly to ensure used items are replaced.

17.3.3 Hydrogen Sulfide

Langan employees with the potential to be exposed to hydrogen sulfide while at work sites must have training in hydrogen sulfide awareness. The training will include the identification of areas where employees could be exposed to hydrogen sulfide, health effects, permissible exposure limits, first aid procedures, and personnel protective equipment. Langan employees could be exposed to hydrogen sulfide while at job sites including petroleum refineries, hazardous waste treatment, storage and disposal facilities, uncontrolled hazardous waste sites, and remediation projects.

17.3.3.1 Characteristics

Hydrogen sulfide is a colorless gas with a strong odor of rotten eggs that is soluble in water. Hydrogen sulfide is used to test and make other chemicals. It is also found as a by-product of chemical reactions, such as in sewer treatment. It is a highly flammable gas and a dangerous fire hazard. Poisonous gases are produced in fires including sulfur oxides. Hydrogen sulfide is not listed as a carcinogen.

17.3.3.2 Health Effects

Hydrogen Sulfide can affect employees if inhaled or through contact with skin or eyes. Acute (or short-term) health effects of hydrogen sulfide exposure include irritation of the nose and throat, dizziness, confusion, headache, and trouble sleeping. Inhalation of hydrogen sulfide can irritate the lungs causing coughing and/or shortness of breath. Higher levels of exposure can cause a build-up of fluid in the lungs (pulmonary edema), a medical emergency, with severe shortness of breath.

Chronic (or long-term) health effects of low levels of exposure to hydrogen sulfide can cause pain and redness of the eyes with blurred vision. Repeated exposure may cause bronchitis with cough, phlegm, and shortness of breath.

17.3.3.3 Protective Clothing and Equipment

Respirators are required for those operations in which employees will be exposed to hydrogen sulfide above OSHA permissible exposure level. The maximum OSHA permissible exposure limit (PEL) for hydrogen sulfide is 20 parts of hydrogen sulfide vapor per million parts of air (20 ppm) for an 8-hour workday and the maximum short-term exposure limit (STEL) is 10 ppm for any 10-minute period.

Where employees are exposed to levels up to 100 parts of hydrogen sulfide vapor per million parts of air (100 ppm), the following types of respiratory protection are allowed:

- Any powered, air-purifying respirator with cartridge(s).
- Any air-purifying, full-facepiece respirator (gas mask) with a chin style, front- or back-mounted canister.
- Any supplied air system with escape self-contained breathing apparatus, if applicable; and,
- Any self-contained breathing apparatus with a full facepiece.

Respirators used by employees must have joint Mine Safety and Health Administration and the National Institute for Occupational Safety and Health (NIOSH) seal of approval. Cartridges or canisters must be replaced before the end of their service life, or the end of the shift, whichever

occurs first. Langan employees that have the potential to be exposed to hydrogen sulfide will be trained in the proper use of respirators. Respirator training is discussed under– Langan's Respiratory Protection Program.

Employees with potential exposure to hydrogen sulfide, or when required by the client, will wear a portable hydrogen sulfide gas detector. The detector should have an audible, visual, and vibrating alarm. The detector may also provide detection for carbon monoxide, sulfur dioxide, and oxygen-deficient atmospheres. The hydrogen sulfide monitor will, at a minimum, be calibrated to detect hydrogen sulfide at a level of 20 parts of hydrogen sulfide vapor per million parts of air (20 ppm). Many portable gas detectors will have factory defaults with a low-level alarm at 10 ppm and a high-level alarm at 15 ppm. Langan employees must consult clients to determine if any site-specific threshold levels exist.

If the hydrogen sulfide gas detector sounds and employees are not wearing appropriate respiratory protection, employees must immediately vacate the area and meet at the assigned emergency location. Langan employees may not re- enter the site without proper respiratory protection and approval from the client or property owner if needed.

Employees must wear PPE to prevent eye and skin contact with hydrogen sulfide. Employees must wear appropriate protective clothing including boots, gloves, sleeves, and aprons, over any parts of their body that could be exposed to hydrogen sulfide. Non-vented, impact-resistant goggles should be worn when working with or exposed to hydrogen sulfide.

17.3.3.4 Emergency and First Aid Procedures

Eye and Face Exposure

If hydrogen sulfide comes in contact with eyes, it should be washed out immediately with large amounts of water for 30 minutes, occasionally lifting the lower and upper eye lids. Seek medical attention immediately.

Skin Exposure

If hydrogen sulfide contaminates clothing or skin, remove the contaminated clothing immediately and wash the exposed skin with large amounts of water and soap. Seek medical attention immediately. Contaminated clothing should either be disposed of or washed before wearing again.

Breathing

If a Langan employee or other personnel breathe in hydrogen sulfide, immediately get the exposed person to fresh air. If breathing has stopped, artificial respiration should be started. Call for medical assistance or a doctor as soon as possible.

Safety Precautions

Hydrogen sulfide is a highly flammable gas and a dangerous fire hazard. Containers of hydrogen sulfide may explode in a fire situation. Poisonous gases are produced during fires.

Langan employees should contact property owners and operators prior to conducting work onsite to be aware of any site-specific contingency plans, identify where hydrogen sulfide is used at the facility, and be informed about additional safety rules or procedures.

17.3.4 Fire Protection/Extinguishers

Langan field personnel that have been provided with portable fire extinguishers for use at worksites will be trained to familiarize employees with general principles of fire extinguisher use and hazards associated with the incipient stage of firefighting. Training will be provided prior to the initial assignment for field work and annually thereafter.

Portable fire extinguishers must be visually inspected monthly and subjected to an annual maintenance check. Langan will retain records of the annual maintenance date.

17.3.5 Overhead lines

When field work is performed near overhead lines, the lines must be de-energized and grounded, or other protective measures must be provided before the work commences. If overhead lines are to be de-energized, arrangements must be made with the client, property owner, or organization that operates or controls the electric circuits involved to de-energize and ground them. If protective measures, such as guarding, isolating, or insulating, are provided, these precautions must prevent employees from contacting such lines directly with any part of their body or indirectly through conductive materials, tools, or equipment.

When unqualified Langan personnel are working in an elevated position near overhead lines, the location must be such that the person and the longest conductive object they may contact cannot come closer to any unguarded, energized overhead line than the following distances:

1. For voltages to ground 50 kilovolts (kV) or below - 10 feet; and
2. For voltages to ground over 50kV - 10 feet, plus 4 inches for every 10kV over 50kV.

As previously indicated, Langan does not retain qualified employees to perform work on energized equipment.

17.3.5.1 Vehicle and Equipment Clearance

Any vehicle or mechanical equipment capable of having parts of its structure elevated near energized overhead lines must be operated so that a clearance of 10 feet is maintained. If the voltage of the overhead lines is higher than 50kV, the clearance must be increased by 4 inches for every 10kV over that voltage.

If any of the following discussed conditions occur, the clearance may be reduced.

- If the vehicle is in transit with its structure lowered, the clearance may be reduced to 4 ft. If the voltage is higher than 50kV, the clearance must be increased to 4 inches for every 10 kV over that voltage.
- If insulating barriers are installed to prevent contact with the lines, and if the barriers are rated for the voltage of the line being guarded and are not a part of or an attachment to the vehicle or its raised structure, the clearance may be reduced to a distance within the designed working dimensions of the insulating barrier.

Employees standing on the ground may not contact the vehicle or mechanical equipment or any of its attachments unless the employee is using protective equipment rated for the voltage, or the equipment is located so that no uninsulated part of its structure (that portion of the structure that provides a conductive path to employees on the ground) can come closer to the overhead line than permitted.

If any vehicle or mechanical equipment capable of having parts of its structure elevated near energized overhead lines is intentionally grounded, employees working on the ground near the point of grounding may not stand at the grounding location whenever there is a possibility of overhead line contact. Additional precautions, such as the use of barricades or insulation, must be taken to protect employees from hazardous ground potentials, depending on earth resistivity and fault currents, which can develop within the first few feet or more outward from the grounding point.

17.3.6 Trade Secret

Langan employees could potentially be provided trade secret information by the client or property owner when site-specific information is provided about highly hazardous chemicals. Trade secret means any confidential formula, pattern, process, device, information, or compilation of information that is used in an employer's business, and that allows the employer to obtain an advantage over competitors who do not know or use it. Langan employees understand that this

information should be kept confident and if required, may enter into a confidentiality agreement with the client.

17.3.7 Bloodborne Pathogens

Langan employees that can anticipate exposure to blood or other potentially infectious material while at work sites must have training in bloodborne pathogens. Applicable employees would include those trained in first aid and serving a designated role as an emergency medical care provider. Bloodborne pathogens are pathogenic microorganisms that are present in human blood and can cause disease in humans. These pathogens include but are not limited to, hepatitis B virus and human immunodeficiency virus.

17.3.7.1 Training

Langan employees with potential occupational exposure to blood or other potentially infectious material must participate in a training program. Training must be conducted prior to the initial assignment where there would be potential for exposure and annually thereafter within one year of previous training. The training program will be provided to Langan employees at no cost to them and during working hours.

Langan will ensure the training program must consist of the following:

- An accessible copy of the regulatory text of 29 CFR 1910.1030 and an explanation of its contents.
- A general explanation of the epidemiology and symptoms of bloodborne diseases.
- An explanation of the modes of transmission of bloodborne pathogens.
- An explanation of Langan's exposure control plan and how the employee can obtain a copy of the written plan.
- An explanation of the appropriate methods for recognizing tasks and other activities that may involve exposure to blood and other potentially infectious materials.
- An explanation of the use and limitations of personal protective equipment (PPE) to prevent and reduce exposure.
- Information on the types, proper use, location, removal, handling, and disposal of PPE.
- An explanation of the basis for the selection of PPE.
- Information on the hepatitis B vaccine, including information on its efficacy, safety, method of administration, the benefits of being vaccinated, and that the vaccine and vaccination will be offered free of charge.
- Information on the appropriate actions to take and persons to contact in an emergency involving blood or other potentially infectious materials.
- An explanation of the procedure to follow if an exposure incident occurs, including the method of reporting the incident and the medical follow-up that will be made available.

- Information on the post-exposure evaluation and determining whether the employer is required to provide for the employee following an exposure incident.
- An explanation of the signs and labels and/or color coding required by paragraph 29 CFR 1910.1030(g)(1); and
- An opportunity for interactive questions and answers with the person conducting the training session.

Langan will develop and implement a written Exposure Control Plan, which will be designed to eliminate or minimize employee exposure to bloodborne pathogens. The Exposure Control Plan will contain the following elements:

- An exposure determination for employees.
- The schedule and method of implementation for Methods of Compliance (29 CFR 191.1030(d)), Hepatitis B Vaccination and Post-Exposure Evaluation and Follow-up (29 CFR 1910.1030(f)), Communication of Hazards to Employees (29 CFR 1910.1030(g)) and (h) Recordkeeping (29 CFR 1910.1030(h)).
- The procedure for the evaluation of circumstances surrounding exposure incidents.
- Ensure a copy of the Exposure Control Plan will be accessible to employees; and,
- The Exposure Control Plan must be reviewed and updated at least annually.

Langan employees with occupational exposure to bloodborne pathogens include any employees trained in first aid that would be expected to provide emergency medical care. This determination is made without regard to the use of PPE, which could eliminate or minimize exposure.

Universal precautions must be observed to prevent contact with blood or other potentially infectious materials. According to the concept of Universal Precautions, all human blood and certain human body fluids are treated as if known to be infectious for bloodborne pathogens. Under circumstances in which differentiation between body fluid types is difficult or impossible, all body fluids must be considered potentially infectious materials.

Work practice controls must be used to eliminate or minimize employee exposure, if applicable. Since Langan employees will have occupational exposure only during the rendering of first aid, personnel protective equipment will be utilized to reduce or minimize exposure. PPE that could be available to Langan personnel when administering first aid includes safety glasses, gloves, and Tyvek suits or sleeves. PPE and first aid kits will be provided to employees at no cost to them.

Langan employees that render first aid in office areas will have access to hand-washing facilities or restrooms. For first aid rendered at field locations, first aid kits will contain an appropriate antiseptic hand cleanser and clean cloth/paper towels or antiseptic towelettes. After using

antiseptic hand cleansers or towelettes, employees must wash their hands with soap and running water as soon as feasible.

After administering first aid, potentially infectious materials, including towels, personnel protective equipment, clothes, and bandages, must be placed in a container, which prevents leakage during collection, handling, processing, storage, transport, or shipping. All PPE will be disposed of after use. Any equipment or working surfaces which was been exposed to blood or potentially infectious materials due to an injury will be decontaminated prior to reuse.

Langan will make available the hepatitis B vaccine and vaccination series to all employees who have occupational exposure, and post-exposure evaluation and follow-up to all employees who have had an exposure incident. These services will be available to the employee at no cost to them through a medical provider.

17.3.7.2 Recordkeeping

Langan will maintain training and medical records for each employee with occupational exposure to blood or potentially infectious materials. Medical and training records will be maintained by Langan's H&S Department.

Training records will include the following:

- Dates of the training sessions.
- Contents or a summary of the training sessions.
- Names and qualifications of persons conducting the training; and
- Names and job titles of all persons attending the training sessions.

Training records must be maintained for 3 years from the date on which the training occurred. Medical records will be preserved and maintained for the duration of employment plus 30 years.

All records will be made available upon request to employees, the Assistant Secretary of Labor for Occupational Safety and Health, and the Director of the National Institute for Occupational Safety and Health Director of OSHA for examination and copying. Medical records must have written consent from the employee before releasing.

If Langan ceases to do business, all records must be transferred to the successor employer. The successor employer must receive and maintain these records.

If there will not be a successor, Langan will notify current employees of their rights to access records at least three months prior to the cessation of business.

18.0 RECORDKEEPING

The following is a summary of required health and safety logs, reports, and recordkeeping.

18.1 Field Change Authorization Request

Any changes to the work to be performed that are not included in the HASP will require an addendum that is approved by the Langan project manager and Langan HSM to be prepared. Approved changes will be reviewed with all field personnel at a safety briefing.

18.2 Medical and Training Records

Copies or verification of training (40-hour, 8-hour, supervisor, site-specific training, documentation of three-day on-the-job training (OJT)), and respirator fit-test records) and medical clearance for site work and respirator use will be maintained in the office and available upon request. Records for all subcontractor employees must also be available upon request. All employee medical records will be maintained by the HSM.

18.3 Onsite Log

A log of personnel on-site each day will be kept by the HSO or designee.

18.4 Daily Safety Meetings ("Tailgate Talks")

Completed safety briefing forms will be maintained by the HSO.

18.5 Exposure Records

All personal monitoring results, laboratory reports, calculations, and air sampling data sheets are part of an employee exposure record. These records will be maintained by the HSO during site work. At the end of the project, they will be maintained according to 29 CFR 1910.1020.

18.6 Hazard Communication Program/MSDS-SDS

Material safety data sheets (MSDS) Safety Data Sheets (SDS) have been obtained for applicable substances and are included in this HASP (Attachment D). Langan's written hazard communication program, in compliance with 29 CFR 1910.1200, is maintained by the HSM.

18.7 Documentation

Immediately following an incident or near miss, unless emergency medical treatment is required, either the employee or a coworker must contact the Langan incident/injury hotline at 1-800-952-6426, extension 4699, and the Project Manager to report the incident or near miss. The Project Manager will contact the client or client representative. A written report must be completed and

submitted HSM within 24 hours of the incident. For emergencies involving personnel injury and/or exposure, the employee will complete and submit the Langan incident/injury report to the Langan corporate health and safety manager as soon as possible following the incident. Accidents will be investigated in-depth to identify all causes and to recommend hazard control measures.

18.7.1 Accident and Injury Report Forms

18.7.1.1 Accident/Incident Report

All injuries, no matter how slight, must be reported to the FTL and the PM immediately. The accident/incident report forms, attached in Attachment C, will be filled out on all accidents by the applicable contractor supervision personnel, the FTL, or the HSO. Copies of all accident/incident reports must be kept on-site and available for review. Project personnel will be instructed on the location of the first aid station, hospital, and doctor and ambulance service near the job. The emergency telephone numbers will be conspicuously posted in site vehicles near the work zone. First aid supplies will be centrally located and conspicuously posted between restricted and nonrestricted areas to be readily accessible to all on the site.

18.7.1.2 First Aid Treatment Record

The forms will be used for recording all non-lost time injuries treated by the project first-aid attendant, the local physician or hospital will be entered in detail on this record. "Minor" treatment of scratches, cuts, etc. will receive the same recording attention as treatment of more severe injuries.

18.7.1.3 OSHA Form 300

An OSHA Form 300 will be kept at the Langan Corporate Office in Parsippany, New Jersey. All recordable injuries or illnesses will be recorded on this form. Subcontractor employers must also meet the requirements of maintaining an OSHA 300 form. The Incident Report form used to capture the details of work-related injuries/illnesses meets the requirements of the OSHA Form 301 (supplemental record) and must be maintained with the OSHA Form 300 for all recordable injuries or illnesses. Forms for recording OSHA work-related injuries and illnesses are included in Attachment C.

19.0 CONFINED SPACE ENTRY

Confined spaces are not anticipated at the Site during planned construction activities. If confined spaces are identified, the contractor must implement their own confined space program that all

applicable federal, state, and local regulations. Confined spaces **will not** be entered by Langan personnel.

20.0 HASP ACKNOWLEDGEMENT FORM

All Langan personnel and contractors will sign this HASP Compliance Agreement indicating that they have become familiar with this HASP and that they understand it and agree to abide by it.

Printed Name	Signature	Company	Date

TABLES

TABLE 1
TASK HAZARD ANALYSES

Task	Hazard	Description	Control Measures	First Aid
1.3.1 – 1.3.34	Contaminated Soil or Groundwater-Dermal Contact	Contaminated water spills on skin, splashes in eyes; contact with contaminated soil/fill during construction activities or sampling.	Wear proper PPE; follow safe practices, maintain safe distance from construction activities	See Table 2, seek medical attention as required
1.3.1 – 1.3.34	Lacerations, abrasions, punctures	Cutting bailer twine, pump tubing, acetate liners, etc. with knife; cuts from sharp site objects or previously cut piles, tanks, etc.; Using tools in tight spaces	Wear proper PPE; follow safe practices	Clean wound, apply pressure and/or bandages; seek medical attention as required.
1.3.1 – 1.3.34	Contaminated Media Inhalation	Opening drums, tanks, wells; vapors for non-aqueous phase liquids or other contaminated site media; dust inhalation during excavation; vapor accumulation in excavation	Follow air monitoring plan; have quick access to respirator, do not move or open unlabeled drums found at the site, maintain safe distance from construction activities	See Table 2, seek medical attention as required
1.3.1 – 1.3.34	Lifting	Improper lifting/carrying of equipment and materials causing strains	Follow safe lifting techniques. Langan employees are not to carry contractor equipment or materials	Rest, ice, compression, elevation; seek medical attention as required
1.3.1 – 1.3.34	Slips, trips, and falls	Slips, trips, and falls due to uneven surfaces, cords, steep slopes, debris, and equipment in work areas	Good housekeeping at site; constant awareness and focus on the task; avoid climbing on stockpiles; maintain safe distance from construction activities and excavations; avoid elevated areas over six feet unless fully accredited in fall protection and wearing an approved fall protection safety apparatus	Rest, ice, compression, elevation; seek medical attention as required
1.3.1 – 1.3.34	Noise	Excavation equipment, hand tools, drilling equipment.	Wear hearing protection; maintain safe distance from construction activities	Seek medical attention as required
1.3.1 – 1.3.34	Falling objects	Soil material, tools, etc. dropping from drill rigs, front-end loaders, etc.	Hard hats to be worn at all times while in work zones; maintain safe distance from construction activities and excavations	Seek medical attention as required
1.3.1 – 1.3.34	Underground/ overhead utilities	Excavation equipment, drill rig auger contacts underground object; boom touches overhead utility	"One Call" before dig; follow safe practices; confirm utility locations with contractor; wear proper PPE; maintain safe distance from construction activities and excavations	Seek medical attention as required
1.3.1 – 1.3.34	Insects (bees, wasps, hornet, mosquitoes, and spider)	Sings, bites	Insect Repellent; wear proper protective clothing (work boots, socks, and light-colored pants); field personnel who may have insect allergies (e.g., bee sting) should provide this information to the HSO or FSO prior to commencing work and will have allergy medication on site.	Seek medical attention as required
1.3.1 – 1.3.34	Vehicle traffic / Heavy Equipment Operation	Vehicles unable to see workers on site, operation of heavy equipment in tight spaces, equipment failure, malfunctioning alarms	Wear proper PPE, especially visibility vest; use a buddy system to look for traffic; rope off area of work with cones and caution tape or devices at points of hazard, maintain safe distance from construction activities and equipment	Seek medical attention as required

TABLE 2
CONTAMINANT HAZARDS OF CONCERN

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.34	1,4-Dichlorobenzene para-Dichlorobenzene p-Dichlorobenzene 1,4-Dichlorobenzene 1,4-DCB para-Dichlorobenzene p-Dichlorobenzene p-DCB PDB Paramoth Para crystals Paracide Dichlorocide	106-46-7	PID	75 ppm 150 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, swelling periorbital (situated around the eye); profuse rhinitis; headache, anorexia, nausea, vomiting; weight loss, jaundice, cirrhosis; in animals: liver, kidney injury; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	2-Butanone Ethyl methyl ketone MEK Methyl acetone Methyl ethyl ketone	78-93-3	PID	200 ppm 3000 ppm	Soil Groundwater Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose; headache; dizziness; vomiting; dermatitis	Eye: Irrigate immediately Skin: Water wash immediately Breathing: Fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.34	Acetone Dimethyl ketone Ketone propane 2-Propanone	67-64-1	PID	1000 ppm 2500 ppm	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, nose, throat; headache, dizziness, central nervous system depression; dermatitis	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.34	Alpha-Chlordane Alpha Chlordane a-Chlordane	5103-71-9	None	0.5 mg/m^3 100 mg/m^3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	Blurred vision; confusion; ataxia, delirium; cough; abdominal pain, nausea, vomiting, diarrhea; irritability, tremor, convulsions; anuria	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Aluminum	7429-90-5	None	0.5 mg/m3 50 mg/m3	Soil	inhalation, skin, and/or eye contact	irritation to the eyes, skin, respiratory system	Eye: Irrigate immediately Breathing: Fresh air
1.3.1 – 1.3.34	Ammonia Nitrogen, Ammonia	7664-41-7	None	50 ppm 300 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, respiratory system	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Anthracene	120-12-7	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	irritation to the skin, eyes, mucous membranes, and upper respiratory tract, abdominal pain if ingested.	Eye: Irrigate immediately, seek medical attention immediately, Skin: Soap wash immediately, Breathing: Move to fresh air, refer to medical attention. Swallow: refer to medical attention

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.34	Antimony	7440-36-0	None	0.5 mg/m^3 50 mg/m^3	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation skin, dermatitis; resp distress; diarrhea; muscle tremor, convulsions; possible gastrointestinal tract	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Arsenic	NA	None	0.5 mg/m^3 NA	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation skin, dermatitis; resp distress; diarrhea; muscle tremor, convulsions; possible gastrointestinal tract	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Barium	10022-31-8	None	0.5 mg/m^3 50 mg/m^3	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, upper respiratory system; skin, burns; gastroenteritis; muscle spasm; slow pulse	Eye: Irrigate immediately Skin: Water flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Benzene Benzol Phenyl hydride Alkyl benzene isomers	71-43-2	PID	3.19 mg/m^3 1,595 mg/mg^3	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, respiratory system; dizziness; headache, nausea, staggered gait; lassitude (weakness, exhaustion) [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.34	Benzo(a)anthracene Benzanthracene Benzanthrene 1,2-Benzanthracene Benzo[b]phenanthrene Tetraphene	56-55-3	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Groundwater Soil	inhalation, skin, or eye contact, ingestion	dermatitis, bronchitis, [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Benzo(a)pyrene	50-32-8	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	dermatitis, bronchitis, [potential occupational carcinogen]	Eye: Irrigate immediately, seek medical attention Skin: Soap wash immediately. Breathing: move to fresh air. Swallow: Induce vomiting if conscious, seek medical attention immediately
1.3.1 – 1.3.34	Benzo(b)fluoranthene	205-99-2	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.34	Benzo(g,h,i)perylene Benzo(ghi)perylene	191-24-2	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.34	Benzo(k)fluoranthene	207-08-9	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.34	Beryllium	7440-41-7	None	0.002 mg/m^3 4 mg/m^3	Soil	inhalation, skin, and/or eye contact	berylliosis (chronic exposure): anorexia, weight loss, lassitude (weakness, exhaustion), chest pain, cough, clubbing of fingers, cyanosis, pulmonary insufficiency; irritation to the eyes; dermatitis; [potential occupational carcinogen]	Eye: Irrigate immediately Breathing: Fresh air

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.34	Bromide	24959-67-9	None	0.1 ppm 3 ppm	Groundwater	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, respiratory system	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Cadmium	7440-43-9	None	0.005 mg/m^3 9 mg/m^3	Soil	inhalation, ingestion	pulmonary edema, dyspnea (breathing difficulty), cough, chest tightness, substernal (occurring beneath the sternum) pain; headache; chills, muscle aches; nausea, vomiting, diarrhea; anosmia (loss of the sense of smell), emphysema, proteinuria, mild anemia; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Calcium	7440-70-2	None	NA	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, upper resp tract; ulcer, perforation nasal septum; pneumonitis; dermatitis	Eye: Irrigate immediately Skin: Water flush immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.34	Carbon disulfide	75-15-0	PID	20 ppm 500 ppm	Soil Groundwater Vapor	inhalation, skin, or eye contact, ingestion	irritation to the eyes, skin, respiratory system	Eye: Irrigate immediately (liquid) Skin: Water flush immediately (liquid) Breathing: Respiratory support
1.3.1 – 1.3.34	Chlordane Chlordan Chlordano 1,2,4,5,6,7,8,8-Octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindane Total Chlordane	57-74-9	None	0.5 mg/m^3 100 mg/m^3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	Blurred vision; confusion; ataxia, delirium; cough; abdominal pain, nausea, vomiting, diarrhea; irritability, tremor, convulsions; anuria	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Chloride	16887-00-6	None	1 ppm 10 ppm	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, respiratory system	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Chlorobenzene benzene chloride monochlorobenzene Phenyl chloride Chlorobenzol MCB	108-90-7	PID	75 ppm 1000 ppm	Groundwater Soil Vapor	inhalation, skin, or eye contact, ingestion	irritation to the eyes, skin, nose; drowsiness, incoordination; central nervous system depression; in animals: liver, lung, kidney injury	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.34	Chromium Total Chromium Chromium, Total	7440-47-3	None	1.0 mg/m^3 250 mg/m^3	Groundwater Soil	inhalation absorption ingestion	irritation to eye, skin, and respiratory	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Chrysene Benzo[a]phenanthrene 1,2-Benzphenanthrene	218-01-9	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Groundwater Soil	inhalation, absorption, ingestion, consumption	irritation to eye, skin, and respiratory, gastrointestinal irritation nausea, vomit, diarrhea [potential occupational carcinogen]	Eyes: Irrigate immediately Skin: Soap wash promptly. Breath: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	cis-1,2-Dichloroethylene cis-1,2-Dichloroethene	156-59-2	NA	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	Irritant to eyes, skin, mucous membranes, and respiratory system. May be harmful by ingestion, skin absorption and inhalation	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Cobalt	7440-48-4	None	0.1mg/m^3 20 mg/m^3	Soil	inhalation, ingestion, skin, and/or eye contact	Cough, dyspnea (breathing difficulty), wheezing, decreased pulmonary function; weight loss; dermatitis; diffuse nodular fibrosis; resp hypersensitivity, asthma	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.34	Copper	7440-50-8	None	1.0 mg/m^3 100 mg/m^3	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, nose, metallic taste; dermatitis; anemia	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Cyanide	57-12-5	None	5 mg/m^3 25 mg/m^3	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	Exposure to cyanide can cause weakness, headaches, confusion, dizziness, fatigue, anxiety, sleepiness, nausea and vomiting. Breathing can speed up then become slow and gasping. Coma, and convulsions also occur. If copious amounts of cyanide have been absorbed by the body, the person usually collapses, and death can occur very quickly. Long-term exposure to lower levels of cyanide can cause skin, and nose irritation, itching, rashes and thyroid changes.	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.34	DDE 4,4-DDE 4,4′-DDE 1,1-bis-(4-chlorophenyl)-2,2-dichloroethene Dichlorodiphenyldichloroethylene p,p'-DDE	72-55-9	None	NA NA	Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	Oral ingestion of food is the primary source of exposure for the general population. Acute and chronic ingestion may cause nausea, vomiting, diarrhea, stomach pain, headache, dizziness, disorientation, tingling, sensation, kidney damage, liver damage, convulsions, coma, and death. 4,4' DDE may cross the placenta and can be excreted in breast milk	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	DDT 4,4-DDT 4,4′-DDT p,p′-DDT Dichlorodiphenyltrichloroethane 1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane	50-29-3	None	1 mg/m^3 500 mg/m^3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; paresthesia tongue, lips, face; tremor; anxiety, dizziness, confusion, malaise (vague feeling of discomfort), headache, lassitude (weakness, exhaustion); convulsions; paresis hands; vomiting; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Dibenz(a,h)anthracene Dibenzo(a,h)anthracene Dibenzo[a,h]anthracene	53-70-3	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Groundwater Soil	inhalation, absorption, ingestion, consumption	irritation to eyes, skin, respiratory, and digestion [potential occupational carcinogen]	Eyes: Irrigate immediately Skin: Soap wash promptly. Breath: Respiratory support PID Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.34	Diesel Fuel automotive diesel fuel oil No. 2 distillate diesoline diesel oil diesel oil light diesel oil No. 1-D summer diesel	68334-30-5	PID	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; burning sensation in chest; headache, nausea, lassitude (weakness, exhaustion), restlessness, incoordination, confusion, drowsiness; vomiting, diarrhea; dermatitis; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Fluoranthene Benzo(j,k)fluorene	206-44-0	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Groundwater Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.34	Fuel Oil No. 2	68476-30-2	PID	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; burning sensation in chest; headache, nausea, lassitude (weakness, exhaustion), restlessness, incoordination, confusion, drowsiness; vomiting, diarrhea; dermatitis; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.34	gamma-Chlordane Gamma Chlordane y-Chlordane	5566-34-7	None	0.5 mg/m^3 100 mg/m^3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	Blurred vision; confusion; ataxia, delirium; cough; abdominal pain, nausea, vomiting, diarrhea; irritability, tremor, convulsions; anuria	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Gasoline	8006-61-9	PID	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; dermatitis; headache, lassitude (weakness, exhaustion), blurred vision, dizziness, slurred speech, confusion, convulsions; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Helium	7440-59-7	Helium Detector	NA NA	NA	inhalation	dizziness, headache, and nausea	Breathing: Respiratory support
1.3.1 – 1.3.34	Indeno(1,2,3-cd)pyrene Indeno(1,2,3-c,d)Pyrene Indeno[1,2,3-cd]Pyrene	193-39-5	None	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Groundwater Soil	inhalation, absorption, ingestion, consumption	irritation to eyes, skin, respiratory, and digestion [potential occupational carcinogen]	Eyes: Irrigate immediately Skin: Soap wash promptly. Breath: Respiratory support Swallow: Medical attention immediately, wash mouth with water

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.34	Iron	7439-89-6	None	10 mg/m^3 NA	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; abdominal pain, diarrhea, vomiting	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Lead	7439-92-1	None	0.050 mg/m^3 100 mg/m^3	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	lassitude (weakness, exhaustion), insomnia; facial pallor; anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; paralysis wrist, ankles; encephalopathy; kidney disease; irritation to the eyes; hypertension	Eye: Irrigate immediately Skin: Soap flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Magnesium	7439-95-4	None	15 mg/m^3 NA	Soil	inhalation, skin, and/or eye contact	irritation to the eyes, skin, respiratory system; cough	Eye: Irrigate immediately Breathing: Fresh air
1.3.1 – 1.3.34	Manganese	7439-96-5	None	5 mg/m^3 500 mg/m^3	Groundwater Soil	inhalation, ingestion	aerosol is irritating to the respiratory tract	Eye: Irrigate immediately Skin: Soap flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.34	Mercury	7439-97-6	None	0.1 mg/m^3 10 mg/m^3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor, insomnia, irritability, headache, lassitude (weakness, exhaustion); stomatitis, salivation; gastrointestinal disturbance, anorexia, weight loss; proteinuria	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Methane Tetrahydridocarbon Carbane Marsh Gas Natural Gas Carbon tetrahydride Hydrogen carbide	74-82-8	PID	NA NA	Groundwater Soil Vapor	inhalation, skin, and/or eye contact (liquid)	dizziness, confusion, excitation, asphyxia; liquid: frostbite	Eye: Frostbite Skin: Frostbite Breathing: Respiratory support
1.3.1 – 1.3.34	Methylene Chloride Dichloromethane Methylene dichloride	75-09-2	PID	25 ppm 2300 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; lassitude (weakness, exhaustion), drowsiness, dizziness; numb, tingle limbs; nausea; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Naphthalene Naphthalin Tar camphor White tar	91-20-3	PID	50 mg/m^3 250 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes; headache, confusion, excitement, malaise (vague feeling of discomfort); nausea, vomiting, abdominal pain; irritation bladder; profuse sweating; hematuria (blood in the urine); dermatitis, optical neuritis	Eye: Irrigate immediately Skin: Molten flush immediately/solid-liquid soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.34	Nickel	7440-02-0	None	NA 10 mg/m^3	Groundwater Soil	ion, ingestion, skin, and/or eye contact	sensitization dermatitis, allergic asthma, pneumonitis; [potential occupational carcinogen]	Skin: Water flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Nitrate	14797-55-8	None	NA NA	Groundwater Soil	inhalation, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane	Eye: Irrigate immediately Skin: Soap wash Breathing: Fresh air
1.3.1 – 1.3.34	Nitrite dioxidonitrate	14797-65-0	None	NA NA	Groundwater	NA	NA	NA
1.3.1 – 1.3.34	Non-Flammable Gas Mixture CALGAS (Equipment Calibration Gas : Oxygen Methane Hydrogen Sulfide Carbon Monoxide Nitrogen	7782-44-7 74-82-8 7783-08-4 830-08-0 7727-37-9	Multi-Gas PID	NA/NA NA/NA 10/100 ppm 50/1200 ppm NA/NA	NA	inhalation	dizziness, headache, and nausea	Breathing: Respiratory support
1.3.1 – 1.3.34	Non-Flammable Gas Mixture CALGAS (Equipment Calibration Gas : Oxygen Isobutylene Nitrogen	7782-44-7 115-11-7 7727-37-9	PID	NA/NA NA/NA NA/NA	NA	inhalation	dizziness, headache, and nausea	Breathing: Respiratory support

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.34	Phenanthrene	85-01-8	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Groundwater Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.34	Phenol Carbolic acid Hydroxybenzene, Monohydroxybenzene Phenyl alcohol Phenyl hydroxide	108-95-2	PID	5 ppm 250 ppm	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, nose, throat; anorexia, weight loss; lassitude (weakness, exhaustion), muscle ache, pain; dark urine, skin, burns; dermatitis; tremor, convulsions, twitching	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.34	Potassium	7440-09-7	None	NA NA	Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact inhalation, ingestion, skin, and/or eye contact	eye: Causes eye burns. Skin: Causes skin, burns. Reacts with moisture in the skin, to form potassium hydroxide and hydrogen with heat. ingestion: Causes gastrointestinal tract burns. inhalation: May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. Causes chemical burns to the respiratory tract. inhalation may be fatal because of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema.	Eyes: Get medical aid immediately Skin: Get medical aid immediately. Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Ingestion: If victim is conscious and alert, give 2-4 full cups of milk or water. Get medical aid immediately. inhalation: Get medical aid immediately.
1.3.1 – 1.3.34	Pyrene benzo[def]phenanthrene	129-00-0	PID	0.2 mg/m^3 80 mg/m^3 (Coal Pitch Tar)	Groundwater Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.34	Selenium	7782-49-2	None	1 mg/m^3 0.2 mg/m^3	Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; visual disturbance; headache; chills, fever; dyspnea (breathing difficulty), bronchitis; metallic taste, garlic breath, gastrointestinal disturbance; dermatitis; eye, skin, burns; in animals: anemia; liver necrosis, cirrhosis; kidney, spleen damage	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Silver	7440-22-4	None	0.01 mg/m^3 10 mg/m^3	Soil	inhalation, ingestion, skin, and/or eye contact	blue-gray eyes, nasal septum, throat, skin; irritation, ulceration skin; gastrointestinal disturbance	Eye: Irrigate immediately Skin: Water flush Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Sodium	7440-23-5	None	NA NA	Groundwater Soil	ion, ingestion, skin, and/or eye contact	sensitization dermatitis, allergic asthma, pneumonitis; [potential occupational carcinogen]	Skin: Water flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Sulfate	14808-79-8	None	NA NA	Groundwater Soil	inhalation, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane	Eye: Irrigate immediately Skin: Soap wash Breathing: Fresh air
1.3.1 – 1.3.34	Total Organic Carbon TOC	7732-18-5	NA	NA NA	Groundwater Soil Vapor	NA	NA	NA

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.34	Trichloroethylene Trichloroetheneylenes Ethylene trichloride TCE Trichloroethene Trilene	79-01-6	PID	100 ppm 1000 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; headache, visual disturbance, lassitude (weakness, exhaustion), dizziness, tremor, drowsiness, nausea, vomiting; dermatitis; cardiac arrhythmias, paresthesia; liver injury; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Vanadium	7440-62-2	None	0.1 mg/m3 15 mg/m3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	nausea, diarrhea, abdominal pain, vomiting; ptosis, strabismus; peri neuritis, tremor; retrosternal (occurring behind the sternum) tightness, chest pain, pulmonary edema; convulsions, chorea, psychosis; liver, kidney damage; alopecia; paresthesia legs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.34	Zinc	7440-62-2	None	15 mg/m^3 500 mg/m^3	Groundwater Soil	inhalation	chills, muscle ache, nausea, fever, dry throat, cough; lassitude (weakness, exhaustion); metallic taste; headache; blurred vision; low back pain; vomiting; malaise (vague feeling of discomfort); chest tightness; dyspnea (breathing difficulty), rales, decreased pulmonary function	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

EXPLANATION OF ABBREVIATIONS

PID = Photoionization Detector

PEL = Permissible Exposure Limit (8-hour Time Weighted Average)

IDLH = Immediately Dangerous to Life and Health
ppm = part per million
mg/m^3 = milligrams per cubic meter
500 mg/m^3

TABLE 3
SUMMARY OF MONITORING EQUIPMENT

Instrument	Operation Parameters
Photoionization Detector (PID)	**Hazard Monitored:** Many organic and some inorganic gases and vapors. **Application:** Detects total concentration of many organic and some inorganic gases and vapors. Some identification of compounds is possible if more than one probe is measured. **Detection Method:** Ionizes molecules using UV radiation; produces a current that is proportional to the number of ions. **General Care/Maintenance:** Recharge or replace battery. Regularly clean lamp window. Regularly clean and maintain the instrument and accessories. **Typical Operating Time:** 10 hours. 5 hours with strip chart recorder.
Oxygen Meter	**Hazard Monitored:** Oxygen (O_2). **Application:** Measures the percentage of O_2 in the air. **Detection Method:** Uses an electrochemical sensor to measure the partial pressure of O_2 in the air and converts the reading to O_2 concentration. **General Care/Maintenance:** Replace detector cell according to manufacturer's recommendations. Recharge or replace batteries prior to explanation of the specified interval. If the ambient air is less than 0.5% C O_2, replace the detector cell frequently. **Typical Operating Time:** 8 – 12 hours.
Additional equipment (if needed, based on site conditions)	
Combustible Gas Indicator (CGI)	**Hazard Monitored:** Combustible gases and vapors. **Application:** Measures the concentration of combustible gas or vapor. **Detection Method:** A filament, usually made of platinum, is heated by burning the combustible gas or vapor. The increase in heat is measured. Gases and vapors are ionized in a flame. A current is produced in proportion to the number of carbon atoms present. **General Care/Maintenance:** Recharge or replace battery. Calibrate immediately before use. **Typical Operating Time:** Can be used for as long as the battery lasts, or for the recommended interval between calibrations, whichever is less.
Flame Ionization Detector (FID) with Gas Chromatography Option *(i.e., Foxboro Organic Vapor Analyzer (OVA))*	**Hazard Monitored:** Many organic gases and vapors (approved areas only). **Application:** In survey mode, detects the concentration of many organic gases and vapors. In gas chromatography (GC) mode, identifies and measures specific compounds. In survey mode, all the organic compounds are ionized and detected at the same time. In GC mode, volatile species are separated. **General Care/Maintenance:** Recharge or replace battery. Monitor fuel and/or combustion air supply gauges. Perform routine maintenance as described in the manual. Check for leaks. **Typical Operating Time:** 8 hours; 3 hours with strip chart recorder.
Potable Infrared (IR) Spectrophotometer	**Hazard Monitored:** Many gases and vapors. **Application:** Measures concentration of many gases and vapors in air. Designed to quantify one or two component mixtures. **Detection Method:** Passes different frequencies of IR through the sample. The frequencies absorbed are specific for each compound. **General Care/Maintenance:** As specified by the manufacturer.

Instrument	Operation Parameters
Direct Reading Colorimetric Indicator Tube	**Hazard Monitored:** Specific gas and vapors. **Application:** Measures concentration of specific gases and vapors. **Detection Method:** The compound reacts with the indicator chemical in the tube, producing a stain whose length or color change is proportional to the compound's concentration. **General Care/Maintenance:** Do not use a previously opened tube even if the indicator chemical is not stained. Check pump for leaks before and after use. Refrigerate before use to maintain a shelf life of about 2 years. Check expiration dates of tubes. Calibrate pump volume at least quarterly. Avoid rough handling which may cause channeling.
Aerosol Monitor	**Hazard Monitored:** Airborne particulate (dust, mist, fume) concentrations. **Application:** Measures total concentration of semi-volatile organic compounds, PCBs, and metals. **Detection Method:** Based on light-scattering properties of particulate matter. Using an internal pump, air sample is drawn into the sensing volume where near infrared light scattering is used to detect particles. **General Care/Maintenance:** As specified by the mfr. Also, the instrument must be calibrated with particulates of a size and refractive index similar to those to be measured in the ambient air.
Monitox	**Hazard Monitored:** Gases and vapors. **Application:** Measures specific gases and vapors. **Detection Method:** Electrochemical sensor specific for the chemical species in question. **General Care/Maintenance:** Moisten sponge before use; check the function switch; change the battery when needed.
Gamma Radiation Survey Instrument	**Hazard Monitored:** Gamma Radiation. **Application:** Environmental radiation monitor. **Detection Method:** Scintillation detector. **General Care/Maintenance:** Must be calibrated annually at a specialized facility. **Typical Operating Time:** Can be used for as long as the battery lasts, or for the recommended interval between calibrations, whichever is less.

TABLE 4
INSTRUMENTATION ACTION LEVELS

Photoionization Detector Action Levels	**Action Required**
Background to 5 parts per million (ppm)[1]	No respirator needed; no further action
>5ppm but </= 15 ppm at the perimeter of the work area	• Work temporarily halted and monitoring continues. • If instantaneous readings decrease below 5 ppm above background, work activities will resume with continued monitoring
>5ppm but </= 25 ppm at the downwind perimeter of the hot zone	• Work activities will be halted. • Source of vapors identified. • Corrective actions taken to abate emissions. • Continued monitoring. • Workers will don appropriate respirators and work can resume if vapor levels 200 feet downwind or the hot zone or half the distance to the nearest potential receptor or residential or commercial structure, whichever is less – but in no case less than 20 feet – is below 5 ppm above background for the 15-minute average
>25ppm at the parameter of the hot zone	Activities will shut down

Particulate Monitoring Action Levels	**Action Required**
Background to 100 micrograms per cubic meter (µg/m³)[2], no dust observed	No further action
Background to 100 µg/m³, dust observed leaving the work area	Dust suppression must be employed.
100 to 150 µg/m³ at the downwind parameter of the hot zone	• Work activities will be halted. • Source of dust identified. • Dust suppression activities initiated. • Corrective actions taken to abate emissions. • Continued monitoring. • Workers will don appropriate respirators. • Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM10 concentration to within 150 µg/m³ of the upwind level and in preventing visible dust migration.
>150 µg/m³ at the parameter of the hot zone	Activities will shut down

[1] VOC concentrations are 15-minute averages above site background (upwind parameter)
[2] Particulate concentrations are 15-minute averages above site background (upwind parameter)

TABLE 5
EMERGENCY NOTIFICATION LIST

ORGANIZATION	CONTACT	TELEPHONE
Local Police Department		911
Local Fire Department		911
Ambulance/Rescue Squad		911
Hospital	Montefiore Jack D. Weller Hospital/Einstein Campus	911 or 718-904-2800
Langan Incident Hotline		800-952-6426 extension 4699
Medical Treatment Hotline	WorkCare™	911 or 888-449-7757
Langan Environmental Project Manager Langan Geotechnical Project Manager Langan Site Civil Project Manager	Brian Gonchenaur Arthur Alzamora Chris Vitolano	646-247-9121 (cell) 917-912-4832 (cell) 917-882-2017 (cell)
Langan Construction Health and Safety Manager (HSM)	Tony Moffa	215-756-2523 (cell)
Langan Health & Safety Officer (HSO)	William Bohrer	410-984-3068 (cell)
Langan Field Team Leader (FTL)	To Be Determined	
Client's Representative	Joyen Vakil	702-499-8587
National Response Center (NRC)		800-424-8802
Chemical Transportation Emergency Center (Chemtrec)		800-424-9300
Center for Disease Control (CDC)		404-639-3534
EPA (RCRA Superfund Hotline)		800-424-9346
TSCA Hotline		202-554-1404
Poison Control Center		800-222-1222

Immediately following an injury, unless immediate emergency medical treatment is required, the injured employee must contact <u>WorkCare - Incident Intervention®</u> at 888-449-7787. For all other incidents or near misses, unless emergency response is required, either the employee or a coworker must contact the Langan Incident Hotline at 973-560-4699.

TABLE 6
SUGGESTED FREQUENCY OF PHYSIOLOGICAL MONITORINGFOR FIT AND ACCLIMATED WORKERS[A]

Adjusted Temperature[b]	Normal Work Ensemble[c]	Impermeable Ensemble
90°F or above (32.2°C) or above	After each 45 min. of work	After each 15 min. of work
87.5°F (30.8°-32.2°C)	After each 60 min. of work	After each 30 min. of work
82.5°-87.5°F (28.1°-30.8°C)	After each 90 min. of work	After each 60 min. of work
77.5°-82.5°F (25.3°-28.1°C)	After each 120 min. of work	After each 90 min. of work
72.5°-77.5°F (22.5°-25.3°C)	After each 150 min. of work	After each 120 min. of work

a For work levels of 250 kilocalories/hour.

b Calculate the adjusted air temperature (ta adj) by using this equation: ta adj ^{o}F = ta ^{o}F + (13 x % sunshine). Measure air temperature (ta) with a standard mercury-in-glass thermometer, with the bulb shielded from radiant heat. Estimate percent sunshine by judging what percent time the sun is not covered by clouds that are thick enough to produce a shadow. (100 percent sunshine = no cloud cover and a sharp, distinct shadow; 0 percent sunshine = no shadows.)

c A normal work ensemble consists of cotton coveralls or other cotton clothing with long sleeves and pants.

TABLE 7

HEAT INDEX

	ENVIRONMENTAL TEMPERATURE (Fahrenheit)										
	70	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**	**115**	**120**
RELATIVE HUMIDITY	**APPARENT TEMPERATURE***										
0%	64	69	73	78	83	87	91	95	99	103	107
10%	65	70	75	80	85	90	95	100	105	111	116
20%	66	72	77	82	87	93	99	105	112	120	**130**
30%	67	73	78	84	90	96	104	113	123	**135**	**148**
40%	68	74	79	86	93	101	110	123	**137**	**151**	
50%	69	75	81	88	96	107	120	**135**	**150**		
60%	70	76	82	90	100	114	**132**	**149**			
70%	70	77	85	93	106	124	**144**				
80%	71	78	86	97	113	**136**					
90%	71	79	88	102	122						
100%	72	80	91	108							

*Combined Index of Heat and Humidity...what it "feels like" to the body
Source: National Oceanic and Atmospheric Administration

How to use Heat Index:
1. Across top locate Environmental Temperature
2. Down left side locate Relative Humidity
3. Follow across and down to find Apparent Temperature
4. Determine Heat Stress Risk on chart at right

Note: Exposure to full sunshine can increase Heat Index values by up to 15 degrees F.

Apparent Temperature	**Heat Stress Risk with Physical Activity and/or Prolonged Exposure**
90-105	Heat Cramps or Heat Exhaustion Possible
105-130	Heat Cramps or Heat Exhaustion Likely, Heat Stroke Possible
>130	Heatstroke Highly Likely

FIGURES

FIGURE 1
SITE LOCATION MAP

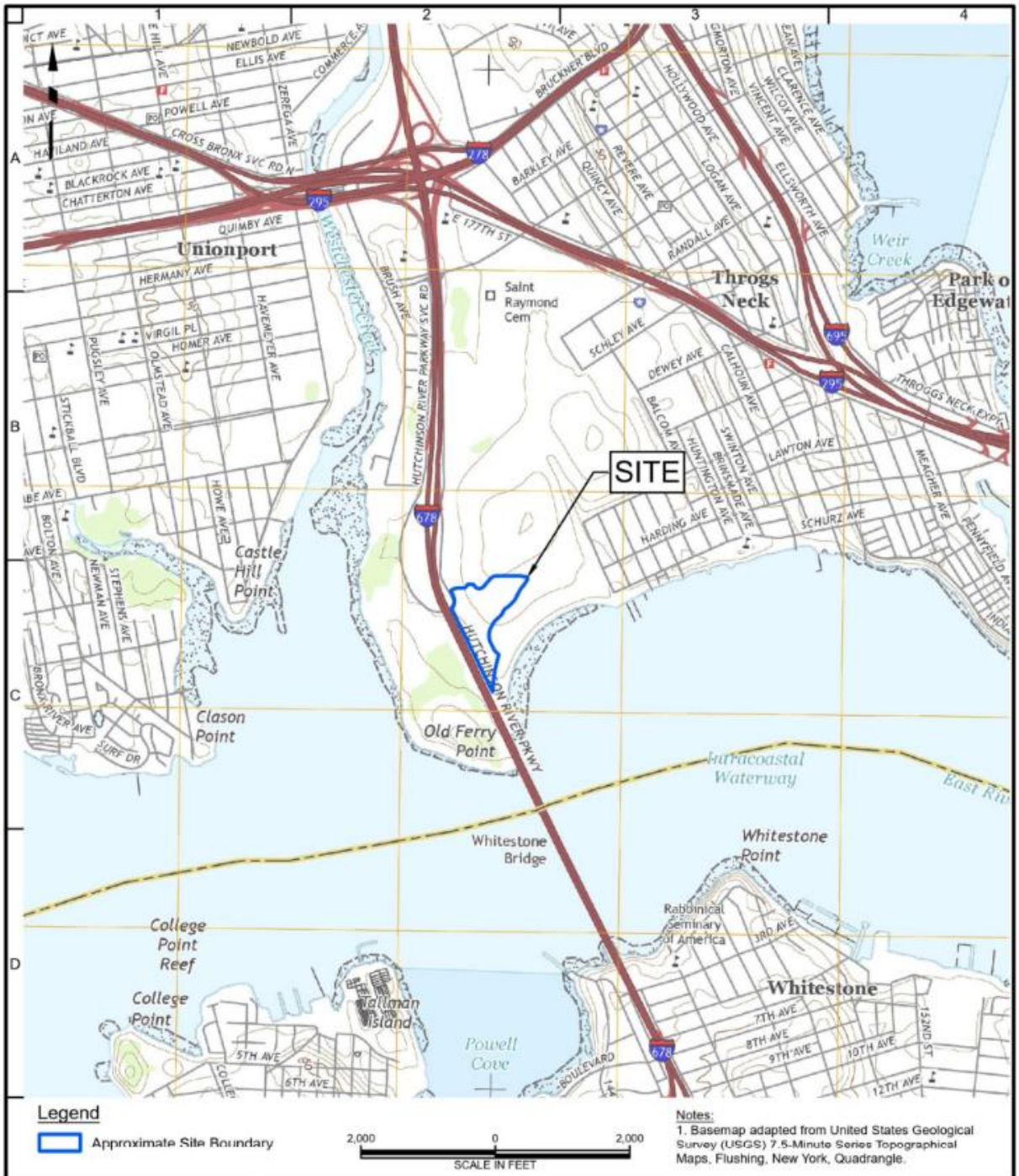

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Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
Langan International LLC
Collectively known as Langan

Project: BALLY'S CASINO AT FERRY POINT PARK
BRONX NEW YORK

Figure Title: SITE LOCATION MAP

Project No.	170773001
Date	8/2/2024
Scale	1"=2,000'
Drawn By	MG
Submission Date	
Figure No.	1

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Path: \\langan.com\data\NYC\data0\170773001\Project Data\ArcGIS\APRX\170773001\170773001.aprx Date: 8/2/2024 User: mgeorgalas Time: 9:53 AM

FIGURE 2
HOSPITAL ROUTE PLAN

Hospital Location: **Montefiore Jack D. Weller Hospital/Einstein Campus**
1825 Eastchester Road
Bronx, New York
718-904-2800

START: 450 Hutchinson Parkway, Bronx, NY

1. Turn right onto Hutchinson River Pkwy
2. Take the I-678 N/Hutchinson River Pkwy ramp on the left to I-95/I-278
3. Merge onto I-678
4. Take exit 18 for E Tremont Ave toward Westchester Ave
5. Continue onto Ericson Pl
6. Turn left onto E Tremont Ave
7. Turn right onto Blondell Ave
8. Stay on Blondell Ave to turn right onto Eastchester Rd
9. Turn left onto Sackett Ave, destination will be on the right.

END: Montefiore Jack D. Weller Hospital/Einstein Campus, 1825 Eastchester Road, Bronx, NY

ATTACHMENTS

ATTACHMENT A

STANDING ORDERS

STANDING ORDERS

GENERAL

- No smoking, eating, or drinking in this work zone.
- Upon leaving the work zone, personnel will thoroughly wash their hands and face.
- Minimize contact with contaminated materials through proper planning of work areas and decontamination areas, and by following proper procedures. Do not place equipment on the ground. Do not sit on contaminated materials.
- No open flames in the work zone.
- Only properly trained and equipped personnel are permitted to work in potentially contaminated areas.
- Always use the appropriate level of personal protective equipment (PPE).
- Maintain close contact with your buddy in the work zone.
- Contaminated material will be contained in the Exclusion Zone (EZ).
- Report any unusual conditions.
- Work areas will be kept clear and uncluttered. Debris and other slip, trip, and fall hazards will be removed as frequently as possible.
- The number of personnel and equipment in the work zone will be kept to an essential minimum.
- Be alert to the symptoms of fatigue and heat/cold stress, and their effects on the normal caution and judgment of personnel.
- Conflicting situations which may arise concerning safety requirements and working conditions must be addressed and resolved quickly by the site HSO.

TOOLS AND HEAVY EQUIPMENT

- Do not, under any circumstances, enter or ride in or on any backhoe bucket, materials hoist, or any other device not specifically designed to carry passengers.
- Loose-fitting clothing or loose long hair is prohibited around moving machinery.
- Ensure that heavy equipment operators and all other personnel in the work zone are using the same hand signals to communicate.
- Drilling/excavating within 10 feet in any direction of overhead power lines is prohibited.
- The locations of all underground utilities must be identified and marked out prior to initiating any subsurface activities.
- Check to ensure that the equipment operator has lowered all blades and buckets to the ground before shutting off the vehicle.
- If the equipment has an emergency stop device, have the operator show all personnel its location and how to activate it.
- Help the operator ensure adequate clearances when the equipment must negotiate in tight quarters; serve as a signal operator to direct backing, as necessary.
- Ensure that all heavy equipment that is used in the Exclusion Zone is kept in that zone until the job is done and that such equipment is completely decontaminated before moving it into the clean area of the work zone.
- Samplers must not reach into or get near rotating equipment such as the drill rig. If personnel must work near any tools that could rotate, the equipment operator must completely shut down the rig prior to initiating such work. It may be necessary to use a remote sampling device.

ATTACHMENT B

DECONTAMINATION PROCEDURES

PERSONNEL DECONTAMINATION

LEVEL C DECONTAMINATION

Station 1:	Equipment Drop	1. Deposit equipment used on-site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths. Segregation at the drop reduces the probability of cross-contamination. During hot weather operations, cool down stations may be set up within this area.
Station 2:	Outer Garment, Boots, and Gloves Wash and Rinse	2. Scrub outer boots, outer gloves, and chemical-resistant splash suit with decon solution or detergent and water. Rinse off using copious amounts of water.
Station 3:	Outer Boot and Glove Removal	3. Remove outer boots and gloves. Deposit in container with plastic liner.
Station 4:	Canister or Mask Change	4. If worker leaves Exclusion Zone to change canister (or mask), this is the last step in the decontamination procedure. Worker's canister is exchanged, new outer gloves and boot covers donned, joints taped, and worker returns to duty.
Station 5:	Boot, Gloves and Outer Garment Removal	5. Boots, chemical-resistant splash suit, inner gloves removed and deposited in separate containers lined with plastic.
Station 6:	Face piece Removal	6. Face piece is removed (avoid touching face with fingers). Face piece deposited on plastic sheets.
Station 7:	Field Wash	7. Hands and face are thoroughly washed. Shower as soon as possible.

LEVEL D DECONTAMINATION

Station 1:	Equipment Drop	1. Deposit equipment used on-site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths. Segregation at the drop reduces the probability of cross contamination. During hot weather operations, cool down stations may be set up within this area.
Station 2:	Outer Garment, Boots, and Gloves Wash and Rinse	2. Scrub outer boots, outer gloves and chemical-resistant splash suit with decon solution or detergent and water. Rinse off using copious amounts of water.
Station 3:	Outer Boot and Glove Removal	3. Remove outer boots and gloves. Deposit in container with plastic liner.
Station 4:	Boot, Gloves and Outer Garment Removal	4. Boots, chemical-resistant splash suit, inner gloves removed and deposited in separate containers lined with plastic.
Station 5:	Field Wash	5. Hands and face are thoroughly washed. Shower as soon as possible.

EQUIPMENT DECONTAMINATION

GENERAL:

Equipment to be decontaminated during the project may include tools, monitoring equipment, respirators, sampling containers, laboratory equipment, and drilling equipment.

All decontamination will be done by personnel in protective gear, appropriate for the level of decontamination, as determined by the site HSO. The decontamination work tasks will be split or rotated among support and work crews.

Depending on site conditions, backhoes and pumps may be decontaminated over a portable decontamination pad to contain wash water; or wash water may be allowed to run off into a storm sewer system. Equipment needed may include a steam generator with high-pressure water, empty drums, screens, screen support structures, and shovels. Drums will be used to hold contaminated wash water pumped from the lined pit. These drums will be labeled as such.

Miscellaneous tools and equipment will be dropped into a plastic bucket, tub, or other containers. They will be brushed off and rinsed with a detergent solution, and finally rinsed with clean water.

MONITORING EQUIPMENT:

Monitoring equipment will be protected as much as possible from contamination by draping, masking, or otherwise covering as many of the instruments as possible with plastic without hindering the operation of the unit. The PID, HNu, or OVA meter, for example, can be placed in a clear plastic bag, which allows reading of the scale and operation of knobs. The probes can be partially wrapped keeping the sensor tip and discharge port clear.

The contaminated equipment will be taken from the drop area and the protective coverings removed and disposed of in the appropriate containers. Any dirt or obvious contamination will be brushed or wiped with a disposable paper wipe.

RESPIRATORS:

Respirators will be cleaned and disinfected after every use. Taken from the drop area, the masks (with the cartridges removed and disposed of with other used disposable gear) will be immersed in a cleaning solution and scrubbed gently with a soft brush, followed by a rinse in plain warm water, and then allowed to air dry. In the morning, new cartridges will be installed. Personnel will inspect their own masks for serviceability prior to donning them. And, once the mask is on, the wearer will check the respirator for leakage using the negative and positive pressure fit check techniques.

ATTACHMENT C

EMPLOYEE EXPOSURE/INJURY INCIDENT REPORT

EMPLOYEE INCIDENT/INJURY REPORT
LANGAN ENGINEERING & ENVIRONMENTAL SERVICES

(Complete and return to Tony Moffa in the Doylestown Office)

Affected Employee Name: _____ Date: _____

Incident type: ☐ Injury ☐ Report Only/No Injury
☐ Near Miss ☐ Other: _____

EMPLOYEE INFORMATION (Person completing Form)

Employee Name: _____ Employee No: _____

Title: _____ Office Location: _____

Length of time employed or date of hire: _____

Mailing address: _____

Sex: M ☐ F ☐ Birth date: _____

Business phone & extension: _____ Residence/cell phone: _____

ACCIDENT INFORMATION

Project: _____ Project #: _____

Date & time of incident: _____ Time work started & ended: _____

Site location: _____

Incident Type: Possible Exposure ☐ Exposure ☐ Physical Injury ☐

Names of person(s) who witnessed the incident:_____

_____

_____

Exact location incident occurred:

_____

_____

Describe work being done:_____

_____

_____

_____

Describe what affected employee was doing prior to the incident occurring:

_____

_____

_____

Describe in detail how the incident occurred:

_____

_____

_____

_____

Nature of the incident (List the parts of the body affected):

_____

_____

_____

_____

Person(s) to whom the incident was reported (Time and Date):

_____

_____

List the names of other persons affected during this incident:

_____

_____

Possible causes of the incident (equipment, unsafe work practices, lack of PPE, etc.):

_____

_____

_____

Weather conditions during incident:

_____

MEDICAL CARE INFORMATION

Did affected employee receive medical care? Yes ☐ No ☐

If Yes, when, and where was medical care received:

_____

_____

Provide name of facility (hospital, clinic, etc.):

_____

_____

Length of stay at the facility.

_____

Did the employee miss any work time? Yes ☐ No ☐ Undetermined ☐

Date employee last worked: _____ Date employee returned to work:

_____

Has the employee returned to work? Yes ☐ No ☐

Does the employee have any work limitations or restrictions from the injury? : Yes ☐ No ☐

If Yes, please describe:

_____

_____

Did the exposure/injury result in permanent disability? Yes ☐ No ☐ Unknown ☐

If Yes, please describe:

_____

HEALTH & SAFETY INFORMATION

Was the operation being conducted under an established site-specific Health and Safety Plan?
Yes ☐ No ☐ Not Applicable: ☐

Describe protective equipment and clothing used by the employee:

_____

_____

_____

Did any limitations in safety equipment or protective clothing contribute to or affect exposure/injury? If so, explain:

_____

_____

_____

_____

Employee Signature Date

_____

Langan Representative Date

ATTACHMENT D

CALIBRATION LOG

DATE:_____ PROJECT:_____

CALIBRATION LOG

Date & Time	Inst Type	Inst #	Media	Initial Reading	Span #	Calibrate Reading	Performed By:

ATTACHMENT E

MATERIAL SAFETY DATA SHEETS
SAFETY DATA SHEETS

All Langan Field Personnel Completing This Work Plan Are To Have Real-Time Accessibility To Material Safety Data Sheets (MSDS) or Safety Data Sheets (SDSs) Through Their Smart Phone.

The link is http://www.msds.com/
The login name is "drapehead"
The password is "2angan987"

If You Are Unable To Use the Smart Phone App, You Are To Bring Printed Copies of the MSDS/SDSs to the Site

SAFETY DATA SHEET

Version 4.4
Revision Date 04/24/2015
Print Date 01/29/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	1,4-Dichlorobenzene
Product Number	:	D56829
Brand	:	Aldrich
Index-No.	:	602-035-00-2
CAS-No.	:	106-46-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Eye irritation (Category 2A), H319
Carcinogenicity (Category 2), H351
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Warning

Hazard statement(s)

H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_6H_4Cl_2$
Molecular weight	:	147.00 g/mol
CAS-No.	:	106-46-7
EC-No.	:	203-400-5
Index-No.	:	602-035-00-2

Hazardous components

Component	Classification	Concentration
1,4-Dichlorobenzene		
	Eye Irrit. 2A; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H319, H351, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
1,4-Dichlorobenzene	106-46-7	TWA	10.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Eye irritation Kidney damage Confirmed animal carcinogen with unknown relevance to humans		
		Potential Occupational Carcinogen See Appendix A		
		TWA	75.000000 ppm 450.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: sheets Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 52 - 54 °C (126 - 129 °F) - lit.
f)	Initial boiling point and boiling range	173 °C (343 °F) - lit.
g)	Flash point	66.0 °C (150.8 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	8.8 hPa (6.6 mmHg) at 50.0 °C (122.0 °F) 0.5 hPa (0.4 mmHg) at 25.0 °C (77.0 °F)
l)	Vapour density	No data available
m)	Relative density	1.241 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available

o)	Partition coefficient: n-octanol/water	log Pow: 3.40
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Bulk density	650 kg/m3

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD0 Oral - Rat - male and female - > 2,000 mg/kg
(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - > 5.07 mg/l

LD0 Dermal - Rat - > 2,000 mg/kg
(OECD Test Guideline 402)

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation
(OECD Test Guideline 404)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation
(OECD Test Guideline 405)

Respiratory or skin sensitisation
Maximisation Test (GPMT) - Guinea pig
Did not cause sensitisation on laboratory animals.
(OECD Test Guideline 406)

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC:	2B - Group 2B: Possibly carcinogenic to humans (1,4-Dichlorobenzene)
NTP:	Reasonably anticipated to be a human carcinogen (1,4-Dichlorobenzene)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: CZ4550000

Produces:, methemoglobin, Nausea, Vomiting, Increased pulse rate, Headache, Impairment of vision

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	flow-through test LC50 - Salmo gairdneri - 1.12 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 0.7 mg/l - 48 h
Toxicity to algae	Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) - 1.6 mg/l - 96 h

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 28 d Result: 30 % - Not rapidly biodegradable (OECD Test Guideline 301C)

12.3 Bioaccumulative potential

Bioaccumulation	Jordanella floridae - 5 d - 2.68 µg/l Bioconcentration factor (BCF): 296

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (1,4-Dichlorobenzene)
Reportable Quantity (RQ): 100 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1,4-Dichlorobenzene)
Marine pollutant:yes

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (1,4-Dichlorobenzene)

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
1,4-Dichlorobenzene	106-46-7	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
1,4-Dichlorobenzene	106-46-7	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
1,4-Dichlorobenzene	106-46-7	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
1,4-Dichlorobenzene	106-46-7	2007-07-01

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. 1,4-Dichlorobenzene	106-46-7	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	2
Reactivity Hazard:	0

Further information

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Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.4 Revision Date: 04/24/2015 Print Date: 01/29/2016

MATERIAL SAFETY DATA SHEET

Date Printed: 05/24/2004
Date Updated: 03/10/2004
Version 1.5

Section 1 - Product and Company Information

Product Name	2-BUTANONE, 99.5+%, HPLC GRADE
Product Number	270695
Brand	ALDRICH
Company	Sigma-Aldrich
Street Address	3050 Spruce Street
City, State, Zip, Country	SAINT LOUIS MO 63103 US
Technical Phone:	314 771 5765
Emergency Phone:	414 273 3850 Ext. 5996
Fax:	800 325 5052

Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313
2-BUTANONE	78-93-3	Yes

Formula C4H8O

Synonyms Acetone, methyl- * Aethylmethylketon (German) * Butanone * 2-Butanone (OSHA) * Butanone 2 (French) * 3-Butanone * Ethyl methyl cetone (French) * Ethylmethylketon (Dutch) * Ketone, ethyl methyl * Meetco * MEK (OSHA) * Methyl acetone * Methyl ethyl ketone (ACGIH:OSHA) * Metiletilchetone (Italian) * Metyloetyloketon (Polish) * RCRA waste number U159

RTECS Number: EL6475000

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Flammable (USA) Highly Flammable (EU). Irritant.
Irritating to respiratory system and skin. Risk of serious damage to eyes. Vapors may cause drowsiness and dizziness.
Target organ(s): Central nervous system.

HMIS RATING
- HEALTH: 2*
- FLAMMABILITY: 3
- REACTIVITY: 1

NFPA RATING
- HEALTH: 2
- FLAMMABILITY: 3
- REACTIVITY: 1

*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

ORAL EXPOSURE
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

DERMAL EXPOSURE
In case of contact, immediately wash skin with soap and copious amounts of water.

EYE EXPOSURE
In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

FLAMMABLE HAZARDS
Flammable Hazards: Yes

EXPLOSION HAZARDS
Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions.

FLASH POINT
30 ˚F -1 ˚C Method: closed cup

EXPLOSION LIMITS
Lower: 1.8 % Upper: 10.1 %

AUTOIGNITION TEMP
516 ˚C

FLAMMABILITY
N/A

EXTINGUISHING MEDIA
Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING
Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s): Flammable liquid. Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL
Evacuate area. Shut off all sources of ignition. Use nonsparking tools.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP
Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

HANDLING
User Exposure: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE
Suitable: Keep tightly closed. Keep away from heat, sparks, and open flame. Store in a cool dry place. Store under nitrogen.

SPECIAL REQUIREMENTS
Hygroscopic.

Section 8 - Exposure Controls / PPE

ENGINEERING CONTROLS
Safety shower and eye bath. Use nonsparking tools. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT
Respiratory: Government approved respirator.
Hand: Compatible chemical-resistant gloves.
Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES
Remove and wash contaminated clothing promptly. Wash thoroughly after handling.

EXPOSURE LIMITS, RTECS

Country	Source	Type	Value
USA	ACGIH	STEL	300 PPM
USA	ACGIH	TWA	200 PPM
USA	MSHA Standard-air	TWA	200 PPM (590 MG/M3)
USA	OSHA.	PEL	8H TWA 200 PPM (590 MG/M3)
New Zealand OEL			
Remarks: check ACGIH TLV			
USA	NIOSH	TWA	200 PPM
		STEL	300 PPM

EXPOSURE LIMITS

Country	Source	Type	Value
Poland		NDS	200 MG/M3
Poland		NDSCh	850 MG/M3
Poland		NDSP	-

Section 9 - Physical/Chemical Properties

Appearance — Physical State: Clear liquid
Color: Colorless

Property	Value	At Temperature or Pressure
Molecular Weight	72.11 AMU	
pH	N/A	
BP/BP Range	79 - 80 ˚C	
MP/MP Range	-87 ˚C	
Freezing Point	-85.9 ˚C	
Vapor Pressure	71 mmHg	20 ˚C
Vapor Density	2.49 g/l	
Saturated Vapor Conc.	N/A	
SG/Density	0.804 g/cm3	

Bulk Density	N/A	
Odor Threshold	5.4 - 1 ppm	
Volatile%	N/A	
VOC Content	N/A	
Water Content	N/A	
Solvent Content	N/A	
Evaporation Rate	N/A	
Viscosity	0.4 Pas	25 ˚C
Surface Tension	24.6 mN/m	20 ˚C
Partition Coefficient	Log Kow: 0.29	
Decomposition Temp.	N/A	
Flash Point	30 ˚F -1 ˚C	Method: closed cup
Explosion Limits	Lower: 1.8 % Upper: 10.1 %	
Flammability	N/A	
Autoignition Temp	516 ˚C	
Refractive Index	1.379	
Optical Rotation	N/A	
Miscellaneous Data	N/A	
Solubility	Solubility in Water:soluble Other Solvents: ALCOHOL, ETHER, ACETONE BENZENE	

N/A = not available

Section 10 - Stability and Reactivity

STABILITY

Stable: Stable.
Conditions to Avoid: Protect from moisture.
Materials to Avoid: Oxidizing agents, Strong reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

Section 11 - Toxicological Information

ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: Causes severe eye irritation.
Inhalation: Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion: May be harmful if swallowed.

TARGET ORGAN(S) OR SYSTEM(S)

Central nervous system.

SIGNS AND SYMPTOMS OF EXPOSURE

Can cause CNS depression. Exposure can cause: Gastrointestinal disturbances. Narcotic effect.

TOXICITY DATA

Oral
Rat
2737 mg/kg
LD50

Inhalation
Rat
23,500 mg/m3
LC50

Intraperitoneal
Rat
607 MG/KG
LD50

Oral
Mouse
4050 mg/kg
LD50

Inhalation
Mouse
32,000 mg/m3
LC50

Intraperitoneal
Mouse
616 MG/KG
LD50

Skin
Rabbit
6480 mg/kg
LD50

Inhalation
Mammal
38,000 mg/m3
LC50

IRRITATION DATA

Eyes
Human
350 ppm

Skin
Rabbit
500 mg
24H
Remarks: Moderate irritation effect

Skin
Rabbit
402 mg
24H
Remarks: Mild irritation effect

Skin
Rabbit
13.78 mg
24H
Remarks: Open irritation test

Eyes
Rabbit
80 mg

CHRONIC EXPOSURE - TERATOGEN

Species: Rat
Dose: 3000 PPM/7H
Route of Application: Inhalation
Exposure Time: (6-15D PREG)
Result: Specific Developmental Abnormalities: Craniofacial (including nose and tongue). Specific Developmental Abnormalities: Urogenital system. Specific Developmental Abnormalities: Homeostasis

Species: Rat
Dose: 1000 PPM/7H
Route of Application: Inhalation
Exposure Time: (6-15D PREG)
Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Musculoskeletal system.

Species: Mouse
Dose: 3000 PPM/7H
Route of Application: Inhalation
Exposure Time: (6-15D PREG)
Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Section 12 - Ecological Information

ACUTE ECOTOXICITY TESTS

Test Type: EC50 Daphnia
Species: Daphnia magna
Time: 24 h
Value: 7,060 mg/l

Test Type: LC50 Fish
Species: Leuciscus idus
Time: 48 h
Value: 4,600 - 4,880 mg/l

Test Type: LC50 Fish
Species: Pimephales promelas (Fathead minnow)
Time: 96 h
Value: 3,130 - 3,320 mg/l

Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION
Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT
Proper Shipping Name: Ethyl methyl ketone [or] Methyl ethyl ketone
UN#: 1193
Class: 3

Packing Group: Packing Group II
Hazard Label: Flammable liquid
PIH: Not PIH

IATA
Proper Shipping Name: Methyl ethyl ketone
IATA UN Number: 1193
Hazard Class: 3
Packing Group: II

Section 15 - Regulatory Information

EU DIRECTIVES CLASSIFICATION
Symbol of Danger: F Xi
Indication of Danger: Highly Flammable. Irritant.
R: 11 36 66 67
Risk Statements: Highly flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness.
S: 9 16
Safety Statements: Keep container in a well-ventilated place. Keep away from sources of ignition - no smoking.

US CLASSIFICATION AND LABEL TEXT
Indication of Danger: Flammable (USA) Highly Flammable (EU). Irritant.
Risk Statements: Irritating to respiratory system and skin. Risk of serious damage to eyes. Vapors may cause drowsiness and dizziness.
Safety Statements: Keep away from sources of ignition - no smoking. Take precautionary measures against static discharges. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection.
US Statements: Target organ(s): Central nervous system.

UNITED STATES REGULATORY INFORMATION
SARA LISTED: Yes
DEMINIMIS: 1 %
NOTES: This product is subject to SARA section 313 reporting requirements.
TSCA INVENTORY ITEM: Yes

CANADA REGULATORY INFORMATION
WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL: Yes
NDSL: No

Section 16 - Other Information

DISCLAIMER
For R&D use only. Not for drug, household or other uses.

WARRANTY
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or

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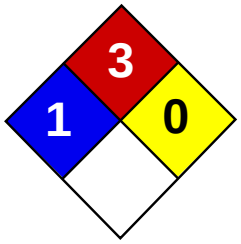

Health	2
Fire	3
Reactivity	0
Personal Protection	H

Material Safety Data Sheet
Acetone MSDS

Section 1: Chemical Product and Company Identification

Product Name: Acetone

Catalog Codes: SLA3502, SLA1645, SLA3151, SLA3808

CAS#: 67-64-1

RTECS: AL3150000

TSCA: TSCA 8(b) inventory: Acetone

CI#: Not applicable.

Synonym: 2-propanone; Dimethyl Ketone; Dimethylformaldehyde; Pyroacetic Acid

Chemical Name: Acetone

Chemical Formula: C3-H6-O

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Acetone	67-64-1	100

Toxicological Data on Ingredients: Acetone: ORAL (LD50): Acute: 5800 mg/kg [Rat]. 3000 mg/kg [Mouse]. 5340 mg/kg [Rabbit]. VAPOR (LC50): Acute: 50100 mg/m 8 hours [Rat]. 44000 mg/m 4 hours [Mouse].

Section 3: Hazards Identification

Potential Acute Health Effects:
Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [SUSPECTED]. The substance is toxic to central nervous system (CNS). The substance may be toxic to kidneys, the reproductive system, liver, skin. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.

Skin Contact:
In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 465°C (869°F)

Flash Points: CLOSED CUP: -20°C (-4°F). OPEN CUP: -9°C (15.8°F) (Cleveland).

Flammable Limits: LOWER: 2.6% UPPER: 12.8%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances: Highly flammable in presence of open flames and sparks, of heat.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Slightly explosive in presence of open flames and sparks, of oxidizing materials, of acids.

Fire Fighting Media and Instructions:
Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog.

Special Remarks on Fire Hazards: Vapor may travel considerable distance to source of ignition and flash back.

Special Remarks on Explosion Hazards:
Forms explosive mixtures with hydrogen peroxide, acetic acid, nitric acid, nitric acid + sulfuric acid, chromic anydride, chromyl chloride, nitrosyl chloride, hexachloromelamine, nitrosyl perchlorate, nitryl perchlorate, permonosulfuric acid, thiodiglycol + hydrogen peroxide, potassium ter-butoxide, sulfur dichloride, 1-methyl-1,3-butadiene, bromoform, carbon, air, chloroform, thitriazylperchlorate.

Section 6: Accidental Release Measures

Small Spill:
Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill:
Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep locked up.. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, reducing agents, acids, alkalis.

Storage:
Store in a segregated and approved area (flammables area) . Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Keep away from direct sunlight and heat and avoid all possible sources of ignition (spark or flame).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:
Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 500 STEL: 750 (ppm) from ACGIH (TLV) [United States] TWA: 750 STEL: 1000 (ppm) from OSHA (PEL) [United States] TWA: 500 STEL: 1000 [Austalia] TWA: 1185 STEL: 2375 (mg/m3) [Australia] TWA: 750 STEL: 1500 (ppm) [United Kingdom (UK)] TWA: 1810 STEL: 3620 (mg/m3) [United Kingdom (UK)] TWA: 1800 STEL: 2400 from OSHA (PEL) [United States]Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Fruity. Mint-like. Fragrant. Ethereal

Taste: Pungent, Sweetish

Molecular Weight: 58.08 g/mole

Color: Colorless. Clear

pH (1% soln/water): Not available.

Boiling Point: 56.2°C (133.2°F)

Melting Point: -95.35 (-139.6°F)

Critical Temperature: 235°C (455°F)

Specific Gravity: 0.79 (Water = 1)

Vapor Pressure: 24 kPa (@ 20°C)

Vapor Density: 2 (Air = 1)

Volatility: Not available.

Odor Threshold: 62 ppm

Water/Oil Dist. Coeff.: The product is more soluble in water; log(oil/water) = -0.2

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water.

Solubility: Easily soluble in cold water, hot water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, ignition sources, exposure to moisture, air, or water, incompatible materials.

Incompatibility with various substances: Reactive with oxidizing agents, reducing agents, acids, alkalis.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation.

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 3000 mg/kg [Mouse]. Acute toxicity of the vapor (LC50): 44000 mg/m3 4 hours [Mouse].

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [SUSPECTED]. Causes damage to the following organs: central nervous system (CNS). May cause damage to the following organs: kidneys, the reproductive system, liver, skin.

Other Toxic Effects on Humans:
Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:
May affect genetic material (mutagenicity) based on studies with yeast (S. cerevisiae), bacteria, and hamster fibroblast cells. May cause reproductive effects (fertility) based upon animal studies. May contain trace amounts of benzene and formaldehyde which may cancer and birth defects. Human: passes the placental barrier.

Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects: Skin: May cause skin irritation. May be harmful if absorbed through the skin. Eyes: Causes eye irritation, characterized by a burning sensation, redness, tearing, inflammation, and possible corneal injury. Inhalation: Inhalation at high concentrations affects the sense organs, brain and causes respiratory tract irritation. It also may affect the Central Nervous System (behavior) characterized by dizzness, drowsiness, confusion, headache, muscle weakeness, and possibly motor incoordination, speech abnormalities, narcotic effects and coma. Inhalation may also affect the gastrointestinal tract (nausea, vomiting). Ingestion: May cause irritation of the digestive (gastrointestinal) tract (nausea, vomiting). It may also

affect the Central Nevous System (behavior), characterized by depression, fatigue, excitement, stupor, coma, headache, altered sleep time, ataxia, tremors as well at the blood, liver, and urinary system (kidney, bladder, ureter) and endocrine system. May also have musculoskeletal effects. Chronic Potential Health Effects: Skin: May cause dermatitis. Eyes: Eye irritation.

Section 12: Ecological Information

Ecotoxicity:
Ecotoxicity in water (LC50): 5540 mg/l 96 hours [Trout]. 8300 mg/l 96 hours [Bluegill]. 7500 mg/l 96 hours [Fatthead Minnow]. 0.1 ppm any hours [Water flea].

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: CLASS 3: Flammable liquid.

Identification: : Acetone UNNA: 1090 PG: II

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (male) which would require a warning under the statute: Benzene California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Benzene California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Benzene, Formaldehyde Connecticut hazardous material survey.: Acetone Illinois toxic substances disclosure to employee act: Acetone Illinois chemical safety act: Acetone New York release reporting list: Acetone Rhode Island RTK hazardous substances: Acetone Pennsylvania RTK: Acetone Florida: Acetone Minnesota: Acetone Massachusetts RTK: Acetone Massachusetts spill list: Acetone New Jersey: Acetone New Jersey spill list: Acetone Louisiana spill reporting: Acetone California List of Hazardous Substances (8 CCR 339): Acetone TSCA 8(b) inventory: Acetone TSCA 4(a) final test rules: Acetone TSCA 8(a) IUR: Acetone

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):
CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC):
R11- Highly flammable. R36- Irritating to eyes. S9- Keep container in a well-ventilated place. S16- Keep away from sources of ignition - No smoking. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 3

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References:
-Material safety data sheet issued by: la Commission de la SantÃ© et de la SÃ©curitÃ© du Travail du QuÃ©bec. -The Sigma-Aldrich Library of Chemical Safety Data, Edition II. -Hawley, G.G.. The Condensed Chemical Dictionary, 11e ed., New York N.Y., Van Nostrand Reinold, 1987. LOLI, RTECS, HSDB databases. Other MSDSs

Other Special Considerations: Not available.

Created: 10/10/2005 08:13 PM

Last Updated: 05/21/2013 12:00 PM

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SAFETY DATA SHEET

Version 4.8
Revision Date 05/03/2017
Print Date 07/13/2017

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	α-Chlordane
Product Number	:	442449
Brand	:	Supelco

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	+1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 4), H332
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Carcinogenicity (Category 2), H351
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Warning

Hazard statement(s)

H302 + H332	Harmful if swallowed or if inhaled
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.

P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Molecular weight : 409.8 g/mol
EC-No. : 225-825-5

Hazardous components

Component	Classification	Concentration
Chlordane		
	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; Carc. 2; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1; H302 + H332, H315, H319, H335, H351, H410	90 - 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.
Hazardous components without workplace control parameters

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	93.0 - 94.0 °C (199.4 - 201.2 °F)
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available

i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 500 mg/kg

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Chlordane)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 - Lepomis macrochirus (Bluegill) - 0.0074 mg/l - 96 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
Bioaccumulation Lepomis macrochirus (Bluegill) - 24 h
- 0.005 mg/l

Bioconcentration factor (BCF): 322

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Chlordane)
Reportable Quantity (RQ): Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Chlordane)
Marine pollutant:yes

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Chlordane)

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Chlordane	5103-71-9	

	CAS-No.	Revision Date
Chlordane	5103-71-9	

New Jersey Right To Know Components

	CAS-No.	Revision Date
Chlordane	5103-71-9	

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H302	Harmful if swallowed.
H302 + H332	Harmful if swallowed or if inhaled
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.8 Revision Date: 05/03/2017 Print Date: 07/13/2017

SAFETY DATA SHEET

1. Identification

Product identifier **ATOMIZED ALUMINUM POWDER**

Other means of identification

SDS number 123

Chemical formula Al

Version # 08

Revision date August 11, 2015.

Other means of identification

Synonyms All non-alloyed, non-coated nodular aluminum powder containing < 1% trace elements * Grade 13, 101, 102, 104, 101T, 120, 121, 123, 1124, 1202, 1233, 1235, 1401/S2(1406), 1403, 1404, 1407, 1401/S9(1409), 1125, * 4402, 6401, 7123, 7124, 7125, 7401

Recommended use Various metallurgical/chemical/structural/coating applications

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Alcoa Inc.
201 Isabella Street
Pittsburgh, PA USA 15212
Health and Safety Tel: +1-412-553-4649
Health and Safety Fax: +1-412-553-4822
Health and Safety Email: accmsds@alcoa.com

Alcoa Inc.
Rockdale Operations
P.O. Box 472
Rockdale, TX 76567
Tel: +1-512-446-8681

Poços de Caldas
Rodovia Poços de Caldas/Andradas, km 10
CEP 37.719-900
Poços de Caldas, Minas Gerais
Tel.: (+55 35) 2101-5000
E-mail: pfacomercialprimarios@alcoa.com.br

Emergency Information CHEMTREC: +1-703-527-3887 +1-800-424-9300 (24 Hour Emergency Telephone, multiple languages spoken); ALCOA: +1-412-553-4001 (24 Hour Emergency Telephone, only English spoken)

Website For a current Safety Data Sheet, refer to Alcoa websites: www.alcoa.com or internally at my.alcoa.com EHS Community

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

Authority defined hazards Combustible dust

Label elements

Hazard symbol None.

Signal word Warning

Hazard statement May form combustible dust concentrations in air.

Precautionary statement

Prevention Care should be taken during bulk handling to prevent accumulation/generation over time of 75 micron or finer particles. Use only non-sparking tools and natural bristle brushes. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Prevent dust accumulation to minimize explosion hazard. Take precautionary measures against static discharge.

Response In case of fire: Use appropriate media for extinction.

Storage Store in a dry place and/or in closed container. Keep away from heat, sparks and open flame - No smoking.Do not allow chips, fines or dust to contact water, particularly in enclosed areas.

Disposal Reuse or recycle material whenever possible. Material that cannot be reused may be sent to a metals reclamation facility that is able to handle fines. Waste material that cannot be reclaimed for metal value should be rendered non-reactive prior to disposal.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information Powder may ignite readily. Powder or dusts dispersed in the air can be explosive.

Explosion/fire hazards may be present when:
• Powder or dust are dispersed in air.
• Powder or dusts are in contact with water.
• Powder or dusts are in contact with certain metal oxides (e.g., rust, copper oxide).

3. Composition/information on ingredients

Composition comments Complete composition is provided below and may include some components classified as non-hazardous.

Substances

Chemical name	Common name and synonyms	CAS number	%
Aluminum powder		7429-90-5	≥99.7

4. First-aid measures

Eye contact Dust from processing: Rinse eyes with plenty of water or saline for at least 15 minutes. Consult a physician.

Skin contact Dust from processing: Wash with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.

Inhalation Dust from processing: Remove to fresh air. Check for clear airway, breathing, and presence of pulse. If breathing is difficult, provide oxygen. Loosen any tight clothing on neck or chest. Provide cardiopulmonary resuscitation for persons without pulse or respirations. Consult a physician.

Ingestion If swallowed, dilute by drinking water. Recommend quantities up to 30 mL (~1 oz.) in children and 250 mL (~9 oz.) in adults. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do NOT induce vomiting. Consult a physician.

Most important symptoms/effects, acute and delayed Dust from processing: Can cause irritation of the upper respiratory tract. See Section 11 of the SDS for additional information on health hazards.

Medical conditions aggravated by exposure Asthma, chronic lung disease, and skin rashes.

Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen.

General information If exposed or concerned: Get medical advice/attention. In case of shortness of breath, give oxygen.

5. Fire-fighting measures

Suitable extinguishing media Use Class D extinguishing agents on fines, dust or molten metal.

Unsuitable extinguishing media DO NOT USE water, halogenated agents, or ABC dry chemical agents. These fire extinguishing agents will react with the burning material.

Specific hazards arising from the chemical	Alcoa aluminum powders were tested by the United States Department of Interior Bureau of Mines in 1991, under UN criteria and found not to meet the definition of a hazard class 4. Care should be taken, however, during bulk handling to prevent accumulation/generation over time of 75 micron or finer particles. May be a potential hazard under the following conditions: • Dust clouds may be explosive. Even a minor dust cloud can explode violently. Dust accumulation on the floor, ledges and beams can present a risk of ignition, flame propagation and secondary explosions. • Powder or dusts in contact with water can generate flammable/explosive hydrogen gas. These gases could present an explosion hazard in confined or poorly ventilated spaces. • Powder or dusts are in contact with certain metal oxides (e.g., rust, copper oxide).
Special protective equipment and precautions for firefighters	Firefighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.
Fire fighting equipment/instructions	Use gentle surface application of Class D extinguishing agent or dry inert granular material (e.g., sand) to cover and ring the burning material. Avoid mixing of the extinguishing agent with the burning material. Apply extinguishing media carefully to avoid creating airborne dust. Do not disturb the material until completely cool. If possible, isolate the burning material to prevent fire spread, and allow the material to burn itself out. Move undamaged containers away from heat or flame, if possible.
General fire hazards	Dust and fines from processing may ignite readily. Dust or fines dispersed in the air can be explosive.
Explosion data	
Sensitivity to mechanical impact	Not sensitive.
Sensitivity to static discharge	Static electricity and formation of sparks must be prevented. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Use non-sparking handling equipment, tools and natural bristle brushes. Cover and reseal partially empty containers. Provide grounding and bonding where necessary to prevent accumulation of static charges during metal dust handling and transfer operations. Obtain and follow the safety procedures and equipment guides contained in Aluminum Association Bulletin F-1 and National Fire Protection Association (NFPA) Standards listed in Section 16. Use non-sparking handling equipment, tools and natural bristle brushes. Cover and reseal partially empty containers. Provide grounding and bonding where necessary to prevent accumulation of static charges during metal dust handling and transfer operations (See Section 15).

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Avoid contact with skin and eyes. Use personal protection recommended in Section 8 of the SDS.
Personal precautions, protective equipment and emergency procedures	
For emergency responders	Avoid contact with skin and eyes. Use personal protection recommended in Section 8 of the SDS.
Evacuation procedures	Keep people away from and upwind of spill/leak. Keep unnecessary personnel away.
Methods and materials for containment and cleaning up	Isolate area. Avoid the generation of dusts during clean-up. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Use only non-sparking tools and natural bristle brushes. Use dry cleanup procedures. Keep material dry. Place carefully in dry, water-tight containers. Seal containers. After complete clean-up by sweeping, area may be washed with large amounts of water if necessary. Material that cannot be reused may be sent to a metals reclamation facility that is able to handle fines. Waste material that cannot be reclaimed for metal value should be rendered non-reactive prior to disposal. For waste disposal, see section 13 of the SDS.
Environmental precautions	No specific precautions.

7. Handling and storage

Handling	Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes. Care should be taken during bulk handling to prevent accumulation/generation over time of 75 micron or finer particles. Keep material dry.
Storage	Keep dry. Storage rooms must be of fire-resistant construction. Do not store powder in same room as other combustible materials.

Requirements for Processes Which Generate Dusts or Fines

Obtain and follow the safety procedures and equipment guides contained in Aluminum Association Bulletin TR-2 and National Fire Protection Association (NFPA) brochures listed in Section 16. Use non-sparking handling equipment, tools and natural bristle brush. Cover and reseal partially empty containers. Provide grounding and bonding where necessary to prevent accumulation of static charges during metal dust handling and transfer operations (See Section 15).

Local ventilation and vacuum systems must be designed to handle explosive dusts. Dry vacuums and electrostatic precipitators must not be used, unless specifically approved for use with flammable/explosive dusts. Dust collection systems must be dedicated to aluminum dust only and should be clearly labeled as such. Do not co-mingle fines of aluminum with fines of iron, iron oxide (rust) or other metal oxides.

Process equipment, storage containers, vessels and buildings should be equipped with explosion/pressure relief valves, panels and windows. Precautions must also be taken to prevent water leakage or seepage which could contact the powder. Refer to NFPA 484.

Avoid all ignition sources. Good housekeeping practices must be maintained. Dust accumulation on the floor, ledges and beams can present a risk of ignition, flame propagation and secondary explosions. Do not use compressed air to remove settled material from floors, beams or equipment . Do not allow fines or dust to contact water, particularly in enclosed areas.

8. Exposure controls/personal protection

Occupational exposure limits

U.S. - OSHA

Components	Type	Value	Form
Aluminum powder (CAS 7429-90-5)	TWA	15 mg/m3	(total dust)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Material	Type	Value	Form
ATOMIZED ALUMINUM POWDER	PEL	5 mg/m3	Respirable dust.
		15 mg/m3	Total dust.

Components	Type	Value	Form
Aluminum powder (CAS 7429-90-5)	TWA	5 mg/m3	Respirable dust.

US ACGIH Threshold Limit Values: Time Weighted Average (TWA): mg/m3, non-standard units

Material	Type	Value	Form
ATOMIZED ALUMINUM POWDER	TWA	1 mg/m3	Respirable fraction.

Components	Type	Value	Form
Aluminum powder (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.

Alcoa

Material	Type	Value	Form
ATOMIZED ALUMINUM POWDER	TWA	3 mg/m3	Respirable fraction
		10 mg/m3	Total dust

Components	Type	Value	Form
Aluminum powder (CAS 7429-90-5)	TWA	3 mg/m3	Respirable fraction
		10 mg/m3	Total dust

General Use personal protective equipment as required.

Appropriate engineering controls Dust from processing: Use with adequate explosion-proof ventilation designed to handle particulates to meet the limits listed in Section 8, Exposure Guidelines.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields.

Skin protection

Hand protection Wear impervious gloves to avoid direct skin contact.

Other	Recommend fire resistant cotton or equivalent full-length fire resistant pants and jackets along with electrically conductive safety shoes or grounding straps. Great caution is required to avoid contact with unprotected electrical devices when wearing conductive safety shoes or grounding straps.
Respiratory protection	Use NIOSH-approved respiratory protection as specified by an Industrial Hygienist or other qualified professional if concentrations exceed the limits listed in Section 8. Suggested respiratory protection: N95.
Thermal hazards	Not applicable.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.
Control parameters	

9. Physical and chemical properties

Form	Solid, powder.
Color	Silvery to gray.
Odor	Odorless
Odor threshold	Not applicable
pH	Not applicable
Density	0.80 - 1.30 g/cm3
Melting point/freezing point	1194.8 - 1214.6 °F (646 - 657 °C) 1220 °F (660 °C)
Initial boiling point and boiling range	Not determined 4220.6 °F (2327 °C)
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - upper (%)	Not determined
Flammability limit - lower (%)	40 mg/l
Explosive properties	Dust can form an explosive mixture in air. Dust accumulation from this product may present an explosion hazard in the presence of an ignition source.
Dust explosion properties	
St class	Very strong explosion.
Vapor pressure	Not applicable
Vapor density	Not applicable
Relative density	Not determined
Solubility(ies)	Insoluble Insoluble
Partition coefficient (n-octanol/water)	Not applicable. Not applicable
Auto-ignition temperature	1202 °F (650 °C) layered
Decomposition temperature	Not applicable
Viscosity	Not applicable

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal conditions of use, storage, and transportation as shipped.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	• Water: Slowly generates flammable and explosive hydrogen gas and heat. Generation rate is greatly increased with smaller particles (e.g., fines and dusts). Water/aluminum mixtures may be hazardous when confined. • Heat: Oxidizes at a rate dependent upon temperature and particle size.

Incompatible materials	• Acids and alkalis: Reacts to generate flammable/explosive hydrogen gas. Generation rate is greatly increased with smaller particles (e.g., fines and dusts). • Strong oxidizers: Violent reaction with considerable heat generation. Can react explosively with nitrates (e.g., ammonium nitrate and fertilizers containing nitrate) when heated or molten. • Halogenated compounds: Many halogenated hydrocarbons, including halogenated fire extinguishing agents, can react violently with finely divided or molten aluminum. • Iron oxide (rust) and other metal oxides (e.g., copper and lead oxides): A violent thermite reaction generating considerable heat can occur. Reaction with aluminum fines and dusts requires only very weak ignition sources for initiation. • Iron powder and water: Explosive reaction forming hydrogen gas when heated above 1470°F (800°C).
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Health effects associated with ingredients

Aluminum dust/fines and fumes: Low health risk by inhalation. Generally considered to be biologically inert.

Health effects associated with compounds formed during processing

No new/additional compounds are expected to be formed during processing.

Information on likely routes of exposure

Eye contact	Can cause mechanical irritation.
Skin contact	Dust from processing: Can cause mechanical irritation.
Inhalation	Dust from processing: Can cause irritation of the upper respiratory tract.
Ingestion	Can cause irritation of the gastrointestinal tract.
Symptoms related to the physical, chemical and toxicological characteristics	Dust from processing: Can cause mechanical irritation. Dust: Can cause irritation of the upper respiratory tract.

Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Non-corrosive.
Serious eye damage/eye irritation	Can cause mechanical irritation.
Respiratory or skin sensitization	
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	Not a skin sensitizer.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Neurological effects	Based on available data, the classification criteria are not met.
Pre-existing conditions aggravated by exposure	Asthma, chronic lung disease, and skin rashes.
Carcinogenicity	Does not present any cancer hazards.
Reproductive toxicity	Does not present any reproductive hazards.
Routes of exposure	Inhalation. Skin contact. Eye contact.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Not classified.
Further information	None known.

12. Ecological information

Ecotoxicity	Not expected to be harmful to aquatic organisms.

Product		Species	Test Results
ATOMIZED ALUMINUM POWDER			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.16 mg/l, 96 hours

Persistence and degradability The product is not biodegradable.

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Mobility in soil Not considered mobile.

Mobility in general Not considered mobile.

Other adverse effects Not available.

13. Disposal considerations

Disposal instructions Reuse or recycle material whenever possible. Material that cannot be reused may be sent to a metals reclamation facility that is able to handle fines. Waste material that cannot be reclaimed for metal value should be rendered non-reactive prior to disposal.

Local disposal regulations Dispose in accordance with all applicable regulations.

Waste codes RCRA Status: Not federally regulated in the U.S. if disposed of "as is."
RCRA waste codes other than described here may apply depending on use of the product. Status must be determined at the point of waste generation. Refer to 40 CFR 261 or state equivalent in the U.S.

Waste from residues / unused products If reuse or recycling is not possible, disposal must be made according to local or governmental regulations.

Contaminated packaging Dispose of in accordance with local regulations.

14. Transport information

General Shipping Information

Basic Shipping Information

ID number -

Proper shipping name Not regulated

Hazard class -

Packing group -

General Shipping Notes

• This material has been tested under UN criteria and found not to meet the definition of a hazard class 4 and does not meet the definition of any other hazard class.
• Standard Transportation Commodity Code: 33-991-19.
• HTS (Harmonized Tariff Schedule) code: 7603.10.0000.
• The import/export HTS (Harmonized Tariff Schedule) code given above is the United States HTS code provided by Alcoa's Customs Compliance Office in Knoxville, TN. Other country specific HTS codes may apply. If available, more information on the HTS codes will be provided on country specific Material Safety Data Sheets.
• When "Not regulated", enter the proper freight classification, SDS Number and Product Name onto the shipping paperwork.

Disclaimer

This section provides basic classification information and, where relevant, information with respect to specific modal regulations, environmental hazards and special precautions. Otherwise, it is presumed that the information is not available/not relevant

15. Regulatory information

US federal regulations In reference to Title VI of the Clean Air Act of 1990, this material does not contain nor was it manufactured using ozone-depleting chemicals.
All electrical equipment must be suitable for use in hazardous atmospheres involving aluminum powder in accordance with 29 CFR 1910.307. The National Electrical Code, NFPA 70, contains guidelines for determining the type and design of equipment and installation which will meet this requirement.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - Yes Reactivity Hazard - No	 If dust clouds are generated

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Aluminum powder	7429-90-5	≥99.7

US state regulations

US. California Proposition 65

Not Listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

SDS Status

August 11, 2015: Change(s) in Section: 1 and 16.
April 30, 2015 (April 30, 2015 Minor modification 0123usa): Change(s) in Section: 1, 2 Minor modification..
January 7, 2015: Change(s) in Section: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16.

Origination date: September 17, 1980

Hazardous Materials Control Committee
Preparer: Jim Perriello, +1-865-977-2051.

SDS System Number: 145308

Revision date August 11, 2015.

Version # 08

Revision Information

Product and Company Identification: Synonyms
Composition / Information on Ingredients: Disclosure Overrides
Physical & Chemical Properties: Multiple Properties
Transport Information: Agency Name, Packaging Type, and Transport Mode Selection
Regulatory Information: United States
HazReg Data: North America
GHS: Classification

Disclaimer The information in the sheet was written based on the best knowledge and experience currently available.

Other information

• Aluminum Association Bulletin TR-2, "Recommendations for Storage and Handling of Aluminum Pigments and Powders." The Aluminum Association, 1525 Wilson Boulevard, Suite 600, Arlington, Virginia 22209, www.aluminum.org.
• Aluminum Association, "Guidelines for Handling Molten Aluminum, The Aluminum Association, 1525 Wilson Boulevard, Suite 600, Arlington, Virginia 22209, www.aluminum.org.
• NFPA 484, Standard for Combustible Metals (NFPA phone: 800-344-3555)
• NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids
• NFPA 70, Standard for National Electrical Code (Electrical Equipment, Grounding and Bonding)
• NFPA 77, Standard for Static Electricity
• NFPA 68, Standard on Explosion Protection by Deflagration Venting • NFPA 69, Standard on Explosion Prevention Systems

Key/Legend:

ACGIH	American Conference of Governmental Industrial Hygienists
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstract Services
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CPR	Cardio-pulmonary Resuscitation
DOT	Department of Transportation
DSL	Domestic Substances List (Canada)
EC	Effective Concentration
ED	Effective Dose
EINECS	European Inventory of Existing Commercial Chemical Substances
ENCS	Japan - Existing and New Chemical Substances
EWC	European Waste Catalogue
EPA	Environmental Protective Agency
IARC	International Agency for Research on Cancer
LC	Lethal Concentration
LD	Lethal Dose
MAK	Maximum Workplace Concentration (Germany) "maximale Arbeitsplatz-Konzentration"
NDSL	Non-Domestic Substances List (Canada)
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PIN	Product Identification Number
PMCC	Pensky Marten Closed Cup
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
SIMDUT	Système d'Information sur les Matières Dangereuses Utilisées au Travail
STEL	Short Term Exposure Limit
TCLP	Toxic Chemicals Leachate Program
TDG	Transportation of Dangerous Goods
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Materials Information System

m meter, cm centimeter, mm millimeter, in inch,
g gram, kg kilogram, lb pound, µg microgram,
ppm parts per million, ft feet

*** End of SDS ***

Hazard statement

May form combustible dust concentrations in air.

Precautionary statement

Prevention

Care should be taken during bulk handling to prevent accumulation/generation over time of 75 micron or finer particles. Use only non-sparking tools and natural bristle brushes. Keep away from heat/sparks/open flames/hot surfaces - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Prevent dust accumulation to minimize explosion hazard. Take precautionary measures against static discharge.

Response

In case of fire: Use appropriate media for extinction.

Storage

Store in a dry place and/or in closed container. Keep away from heat, sparks and open flame - No smoking. Do not allow chips, fines or dust to contact water, particularly in enclosed areas.

Disposal

Reuse or recycle material whenever possible. Material that cannot be reused may be sent to a metals reclamation facility that is able to handle fines. Waste material that cannot be reclaimed for metal value should be rendered non-reactive prior to disposal.

Warning

Supplemental information

Powder may ignite readily. Powder or dusts dispersed in the air can be explosive.

Explosion/fire hazards may be present when:

- Powder or dust are dispersed in air.
- Powder or dusts are in contact with water.
- Powder or dusts are in contact with certain metal oxides (e.g., rust, copper oxide).

FIRE FIGHTING MEASURES: Use gentle surface application of Class D extinguishing agent or dry inert granular material (e.g., sand) to cover and ring the burning material. Avoid mixing of the extinguishing agent with the burning material. If possible, isolate the burning material to prevent fire spread, and allow the material to burn itself out. Do not disturb the material until completely cool. Move undamaged containers away from heat or flame, if possible.

DO NOT USE water, halogenated agents, or ABC dry chemical agents.

These fire extinguishing agents will react with the burning material.

IN CASE OF SPILL: Avoid dusting of powder to the greatest extent possible. Use only non-sparking tools and natural bristle brushes. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Prohibit smoking. Use dry cleanup procedures. Place carefully in dry, water-tight containers. Seal containers. After complete clean-up by sweeping, area may be washed with large amounts of water if necessary.

See Alcoa SDS Number 0123.

Alcoa Inc., 201 Isabella Street, Pittsburgh, PA 15212-5858 United States +1-412-553-4001 (24 Hour Emergency Telephone, English only)
Alcoa Health and Safety Email: accmsds@alcoa.com Tel: +1-412-553-4649 and Fax: +1-412-553-4822

ALCOA

SAFETY DATA SHEET

Version 3.12
Revision Date 11/04/2016
Print Date 12/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Ammonia
Product Number	:	294993
Brand	:	Aldrich
Index-No.	:	007-001-00-5
CAS-No.	:	7664-41-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	+1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable gases (Category 2), H221
Gases under pressure (Compressed gas), H280
Acute toxicity, Inhalation (Category 3), H331
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H221	Flammable gas.
H280	Contains gas under pressure; may explode if heated.
H314	Causes severe skin burns and eye damage.
H331	Toxic if inhaled.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P363	Wash contaminated clothing before reuse.
P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381	Eliminate all ignition sources if safe to do so.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410 + P403	Protect from sunlight. Store in a well-ventilated place.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	H_3N
Molecular weight	:	17.03 g/mol
CAS-No.	:	7664-41-7
EC-No.	:	231-635-3
Index-No.	:	007-001-00-5

Hazardous components

Component	Classification	Concentration
Ammonia, anhydrous		
	Flam. Gas 2; Press. Gas Compr. Gas; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; H221, H280, H314, H318, H331, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.Continue rinsing eyes during transport to hospital.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Contents under pressure.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Ammonia, anhydrous	7664-41-7	TWA	25.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation Eye damage		
		STEL	35.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye damage		
		TWA	50.000000 ppm 35.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		
		TWA	25.000000 ppm 18.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Often used in an aqueous solution.		
		ST	35.000000 ppm 27.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Often used in an aqueous solution.		
		TWA	25.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye damage		
		TWA	25.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye damage		
		STEL	35.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye damage		
		STEL	35.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye damage		
		TWA	25.000000 ppm 18.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Often used in an aqueous solution.		
		TWA	25.000000 ppm 18.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Often used in an aqueous solution.		
		ST	35.000000 ppm 27.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Often used in an aqueous solution.		
		ST	35.000000 ppm 27.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Often used in an aqueous solution.		

		TWA	50 ppm 35 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		
		STEL	35 ppm 27 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	25 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye damage		
		STEL	35 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye damage		
		TWA	25 ppm 18 mg/m3	USA. NIOSH Recommended Exposure Limits
		Often used in an aqueous solution.		
		ST	35 ppm 27 mg/m3	USA. NIOSH Recommended Exposure Limits
		Often used in an aqueous solution.		
		PEL	25 ppm 18 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		STEL	35 ppm 27 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: butyl-rubber
Minimum layer thickness: 0.3 mm
Break through time: 480 min
Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact
Material: butyl-rubber
Minimum layer thickness: 0.3 mm
Break through time: 480 min
Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Compressed gas
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -78 °C (-108 °F) - lit.
f)	Initial boiling point and boiling range	-33 °C (-27 °F) - lit.
g)	Flash point	132 °C (270 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 25 %(V) Lower explosion limit: 15 %(V)
k)	Vapour pressure	6,402 hPa (4,802 mmHg) at 15.50 °C (59.90 °F) 8,866 hPa (6,650 mmHg) at 21 °C (70 °F)
l)	Vapour density	0.59 - (Air = 1.0)
m)	Relative density	0.590 g/cm3
n)	Water solubility	soluble
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Relative vapour density	0.59 - (Air = 1.0)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Oxidizing agents, Iron, Zinc, Copper, Silver/silver oxides, Cadmium/cadmium oxides, Alcohols, acids, Halogens, Aldehydes

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NOx)
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

LC50 Inhalation - Rat - 4 h - 2000 ppm

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: BO0875000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver - Irregularities - Based on Human Evidence
Liver - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - 25.4 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1005 Class: 2.2
Proper shipping name: Ammonia, anhydrous
Reportable Quantity (RQ): 100 lbs
Marine pollutant:yes
Poison Inhalation Hazard: Hazard zone D

IMDG
UN number: 1005 Class: 2.3 (8) EMS-No: F-C, S-U
Proper shipping name: AMMONIA, ANHYDROUS
Marine pollutant:yes Marine pollutant: yes

IATA
UN number: 1005 Class: 2.3 (8)
Proper shipping name: Ammonia, anhydrous
IATA Passenger: Not permitted for transport

IATA Cargo: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components

The following components are subject to reporting levels established by SARA Title III, Section 302:

	CAS-No.	Revision Date
Ammonia, anhydrous	7664-41-7	2007-03-01

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Ammonia, anhydrous	7664-41-7	2007-03-01

SARA 311/312 Hazards

Sudden Release of Pressure Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Ammonia, anhydrous	7664-41-7	2007-03-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Ammonia, anhydrous	7664-41-7	2007-03-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Ammonia, anhydrous	7664-41-7	2007-03-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
Flam. Gas	Flammable gases
H221	Flammable gas.
H280	Contains gas under pressure; may explode if heated.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	3
Chronic Health Hazard:	*
Flammability:	1
Physical Hazard	1

NFPA Rating

Health hazard:	3
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.12 Revision Date: 11/04/2016 Print Date: 12/01/2016

SAFETY DATA SHEET

Version 4.9
Revision Date 04/20/2015
Print Date 12/11/2015

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Anthracene
Product Number	:	A89200
Brand	:	Aldrich
CAS-No.	:	120-12-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Warning

Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear eye protection/ face protection.

P280	Wear protective gloves.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Photosensitizer., Lachrymator.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_{14}H_{10}$
Molecular weight	:	178.23 g/mol
CAS-No.	:	120-12-7
EC-No.	:	204-371-1

Hazardous components

Component	Classification	Concentration
Anthracene Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)		
	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1; H315, H319, H335, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Anthracene	120-12-7	TWA	0.200000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	Remarks	1910.1002 As used in §1910.1000 (Table Z-1), coal tar pitch volatiles include the fused polycyclic hydrocarbons which volatilize from the distillation residues of coal, petroleum (excluding asphalt), wood, and other organic matter. Asphalt (CAS 8052-42-4, and CAS 64742-93-4) is not covered under the 'coal tar pitch volatiles' standard OSHA specifically regulated carcinogen		

		TWA	0.100000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen NIOSH considers coal tar, coal tar pitch, and creosote to be coal tar products. cyclohexane-extractable fraction See Appendix C See Appendix A		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Anthracene	120-12-7	1-Hydroxypyrene (1-HP)		Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Chloroprene
Minimum layer thickness: 0.6 mm
Break through time: 480 min
Material tested:Camapren® (KCL 722 / Aldrich Z677493, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 30 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: beige
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 210 - 215 °C (410 - 419 °F) - lit.
f)	Initial boiling point and boiling range	340 °C (644 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Lower explosion limit: 0.6 %(V)
k)	Vapour pressure	1.3 hPa (1.0 mmHg) at 145.0 °C (293.0 °F)
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 4.45
p)	Auto-ignition temperature	540.0 °C (1,004.0 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents, Hypochlorites

10.6 Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
Inhalation: No data available

Dermal: No data available

LD50 Intraperitoneal - Mouse - 430 mg/kg

Skin corrosion/irritation
Skin - Mouse
Result: Mild skin irritation

Serious eye damage/eye irritation
Irritating to eyes. The preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling.

Respiratory or skin sensitisation
Causes photosensitivity. Exposure to light can result in allergic reactions resulting in dermatologic lesions, which can vary from sunburnlike responses to edematous, vesiculated lesions, or bullae

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	3 - Group 3: Not classifiable as to its carcinogenicity to humans (Anthracene)
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	OSHA specifically regulated carcinogen (Anthracene)

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure
Inhalation - May cause respiratory irritation.
The preceding data, or interpretation of data, was determined using Quantitative Structure Activity Relationship (QSAR) modeling.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: CA9350000

Possible tumor promoter., Headache, Nausea, Weakness

Blood -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Lepomis macrochirus (Bluegill) - 0.001 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.10 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
Indication of bioaccumulation.

Bioaccumulation	Pimephales promelas (fathead minnow) - 42 d - 0.01191 mg/l Bioconcentration factor (BCF): 649

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Anthracene)
Reportable Quantity (RQ): 5000 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Anthracene)
Marine pollutant:yes

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Anthracene)

Further information
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Anthracene	120-12-7	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Anthracene	120-12-7	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Anthracene	120-12-7	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Anthracene	120-12-7	2007-07-01

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Anthracene	120-12-7	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Irrit.	Eye irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.9 Revision Date: 04/20/2015 Print Date: 12/11/2015

Antimony

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: 02/12/2014 Version: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. Product Identifier

Product Form: Substance

Product Name: Antimony

Synonyms: Stibium (Sb)

1.2. Intended Use of the Product

No additional information available

1.3. Name, Address, and Telephone of the Responsible Party

Company

Atomized Products Group, Inc
3838 Miller Park Dr
Garland, TX 75042
T 972-272-9596
atomizedproductsgroup.com

1.4. Emergency Telephone Number

Emergency Number : 800-255-3924 (CHEMTEL)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Comb. Dust

Acute Tox. 3 (Oral)	H301
Acute Tox. 4 (Inhalation:dust,mist)	H332
Carc. 2	H351
Aquatic Acute 2	H401
Aquatic Chronic 2	H411

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :

GHS06 GHS07 GHS08 GHS09

Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : May form combustible dust concentrations in air
H301 - Toxic if swallowed
H332 - Harmful if inhaled
H351 - Suspected of causing cancer
H401 - Toxic to aquatic life
H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements (GHS-US) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing dust.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection, respiratory protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308+P313 - If exposed or concerned: Get medical advice/attention.

P312 - Call a POISON CENTER/doctor/physician if you feel unwell.
P321 - Specific treatment (see section 4).
P330 - If swallowed, rinse mouth.
P391 - Collect spillage.
P405 - Store locked up.
P501 - Dispose of contents/container to local, regional, national, territorial, provincial, and international regulations.

2.3. Other Hazards

Other Hazards Not Contributing to the Classification: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. May form combustible dust concentrations in air. Exposure may aggravate individuals with pre-existing skin, kidney, liver, and pulmonary disorders. On burning release of harmful/irritant gases/vapours (antimony oxides). Inhalation of dusts and fumes can cause metal fume fever. Symptoms can include a metallic or sweet taste in the mouth, sweating, shivering, headache, throat irritation, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, fatigue, and shortness of breath.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Name : Antimony

Name	Product identifier	%	Classification (GHS-US)
Antimony	(CAS No) 7440-36-0	100	Comb. Dust Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation), H332 Carc. 2, H351 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.

First-aid Measures After Ingestion: Rinse mouth. Do not induce vomiting. Seek medical attention if a large amount is swallowed.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: Suspected of causing cancer. Toxic if swallowed. Harmful if inhaled.

Symptoms/Injuries After Inhalation: Harmful if inhaled. Respiratory tract irritation.

Symptoms/Injuries After Skin Contact: Prolonged contact with large amounts of dust may cause mechanical irritation.

Symptoms/Injuries After Eye Contact: Prolonged contact with large amounts of dust may cause mechanical irritation.

Symptoms/Injuries After Ingestion: Toxic if swallowed. May cause nausea, vomiting, and diarrhea.

Chronic Symptoms: Prolonged exposure may cause effects in specific organs such as the liver, kidneys, blood, and nervous system.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures. Dust explosion hazard in air.
Explosion Hazard: Avoid dust clouds in combination with static electricity. Dust explosion hazard in air.
Reactivity: Hazardous reactions will not occur under normal conditions. Dust clouds can be explosive.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.
Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information: Risk of dust explosion. Do not allow the product to be released into the environment. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust. Avoid generating dust. Avoid all contact with skin, eyes, or clothing.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).
Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).
Emergency Procedures: Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Avoid generation of dust during clean-up of spills. Use only non-sparking tools.
Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Avoid generation of dust during clean-up of spills. Use only non-sparking tools. Use explosion proof vacuum during cleanup, with appropriate filter, do not mix with other materials. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Avoid dust production. Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion, keep dust levels to a minimum and follow applicable regulations. Do not pressurize, cut, or weld containers. . On burning: release of harmful/irritant gases/vapours e.g.: (antimony oxides).
Precautions for Safe Handling: Use only non-sparking tools. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Handle in accordance with good industrial hygiene and safety procedures.
Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do no eat, drink or smoke when using this product.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Comply with applicable regulations.
Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from extremely high or low temperatures, ignition sources, incompatible materials.
Incompatible Products: Strong acids. Strong bases. Strong oxidizers.

7.3. Specific End Use(s)

No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Antimony (7440-36-0)		
USA ACGIH	ACGIH TWA (mg/m³)	0.5 mg/m³
USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.5 mg/m³

USA IDLH	US IDLH (mg/m³)	50 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	0.5 mg/m³

8.2. Exposure Controls

Appropriate Engineering Controls : Ensure all national/local regulations are observed. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment : Gloves. Protective goggles. Respiratory protection of the dependent type. Protective clothing.

Materials for Protective Clothing : Chemically resistant materials and fabrics.

Hand Protection : Wear chemically resistant protective gloves.

Eye Protection : Chemical goggles or safety glasses.

Skin and Body Protection : Wear suitable protective clothing.

Respiratory Protection : Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of dust are expected to exceed exposure limits.

Thermal Hazard Protection : Wear suitable protective clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State : Solid

Odor : No data available

Odor Threshold : No data available

pH : No data available

Relative Evaporation Rate (butylacetate=1) : No data available

Melting Point : No data available

Freezing Point : No data available

Boiling Point : No data available

Flash Point : No data available

Auto-ignition Temperature : No data available

Decomposition Temperature : No data available

Flammability (solid, gas) : No data available

Vapor Pressure : No data available

Relative Vapor Density at 20 °C : No data available

Relative Density : No data available

Specific Gravity : No data available

Solubility : No data available

Log Pow : No data available

Log Kow : No data available

Viscosity, Kinematic : No data available

Viscosity, Dynamic : No data available

Explosive Properties : No data available

Oxidizing Properties : No data available

Explosive Limits : No data available

9.2. Other Information No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Hazardous reactions will not occur under normal conditions. Dust clouds can be explosive.

10.2 Chemical Stability: Dust clouds can be explosive.

10.3 Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4 Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Open flame. Ignition sources. Incompatible materials.

10.5 Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. Halogenated compounds.

10.6 Hazardous Decomposition Products: Antimony and its oxides. Metal oxides. Inhalation of fumes may cause metal fume fever.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity: Toxic if swallowed. Harmful if inhaled.

Antimony	
ATE (Oral)	500.000 mg/kg body weight
ATE (Dust/Mist)	1.500 mg/l/4h

Antimony (7440-36-0)	
LD50 Oral Rat	100 mg/kg
ATE (Oral)	100.000 mg/kg body weight

Skin Corrosion/Irritation: Not classified

Serious Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Suspected of causing cancer.

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Harmful if inhaled. Respiratory tract irritation.

Symptoms/Injuries After Skin Contact: Prolonged contact with large amounts of dust may cause mechanical irritation.

Symptoms/Injuries After Eye Contact: Prolonged contact with large amounts of dust may cause mechanical irritation.

Symptoms/Injuries After Ingestion: Toxic if swallowed. May cause nausea, vomiting, and diarrhea.

Chronic Symptoms: Prolonged exposure may cause effects in specific organs such as the liver, kidneys, blood, and nervous system.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Toxic to aquatic life with long lasting effects.

12.2. Persistence and Degradability

Antimony	
Persistence and Degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative Potential No additional information available

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Additional Information: The materials contained within this product are hazardous to the environment, do not release into the environment.

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT

Proper Shipping Name : ANTIMONY POWDER
Hazard Class : 6.1
Identification Number : UN2871
Label Codes : 6.1
Packing Group : III
Marine Pollutant : Marine pollutant
ERG Number : 170

14.2 In Accordance with IMDG

Proper Shipping Name : ANTIMONY POWDER
Hazard Class : 6.1
Identification Number : UN2871
Packing Group : III
Label Codes : 6.1
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-A
MFAG Number : 171

14.3 In Accordance with IATA

Proper Shipping Name : ANTIMONY POWDER
Packing Group : III
Identification Number : UN2871
Hazard Class : 6
Label Codes : 6.1
ERG Code (IATA) : 6L

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

Antimony	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard

Antimony (7440-36-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)	
SARA Section 313 - Emission Reporting	1.0 %

15.2 US State Regulations

Antimony (7440-36-0)
U.S. - California - Priority Toxic Pollutants - Human Health Criteria
U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)
U.S. - Colorado - Primary Drinking Water Regulations - Maximum Contaminant Level Goals (MCLGs)
U.S. - Colorado - Primary Drinking Water Regulations - Maximum Contaminant Levels (MCLs)
U.S. - Connecticut - Drinking Water Quality Standards - Maximum Contaminant Levels
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S. - Connecticut - Water Quality Standards - Consumption of Organisms Only
U.S. - Connecticut - Water Quality Standards - Consumption of Water and Organisms
U.S. - Connecticut - Water Quality Standards - Health Designations
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
U.S. - Florida - Drinking Water Standards - Inorganic Contaminants - Maximum Contaminant Levels (MCLs)
U.S. - Georgia - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S. - Idaho - Occupational Exposure Limits - TWAs

U.S. - Illinois - Toxic Air Contaminants
U.S. - Louisiana - Reportable Quantity List for Pollutants
U.S. - Maine - Air Pollutants - Hazardous Air Pollutants
U.S. - Maryland - Surface Water Quality Standards - Consumption of Organisms Only
U.S. - Maryland - Surface Water Quality Standards - Consumption of Water and Organisms
U.S. - Massachusetts - Allowable Ambient Limits (AALs)
U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs)
U.S. - Massachusetts - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Right To Know List
U.S. - Massachusetts - Threshold Effects Exposure Limits (TELs)
U.S. - Massachusetts - Toxics Use Reduction Act
U.S. - Michigan - Occupational Exposure Limits - TWAs
U.S. - Michigan - Polluting Materials List
U.S. - Minnesota - Chemicals of High Concern
U.S. - Minnesota - Groundwater Health Risk Limits
U.S. - Minnesota - Hazardous Substance List
U.S. - Minnesota - Permissible Exposure Limits - TWAs
U.S. - Missouri - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S. - Nebraska - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S. - New Hampshire - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
U.S. - New Jersey - Environmental Hazardous Substances List
U.S. - New Jersey - Primary Drinking Water Standards - Maximum Contaminant Levels - MCLs
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Water Quality - Ground Water Quality Criteria
U.S. - New Jersey - Water Quality - Practical Quantitation Levels (PQLs)
U.S. - New York - Occupational Exposure Limits - TWAs
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
U.S. - North Dakota - Water Quality Standards - Human Health Value for Class III
U.S. - North Dakota - Water Quality Standards - Human Health Value for Classes I, IA, II
U.S. - Oregon - Permissible Exposure Limits - TWAs
U.S. - Pennsylvania - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 24-Hour
U.S. - Rhode Island - Water Quality Standards - Acute Freshwater Aquatic Life Criteria
U.S. - Rhode Island - Water Quality Standards - Chronic Freshwater Aquatic Life Criteria
U.S. - Rhode Island - Water Quality Standards - Human Health Criteria for Consumption of Aquatic Organisms Only
U.S. - Rhode Island - Water Quality Standards - Human Health Criteria for Consumption of Water and Aquatic Organisms
U.S. - South Carolina - Maximum Contaminant Levels (MCLs)
U.S. - Tennessee - Occupational Exposure Limits - TWAs
U.S. - Texas - Drinking Water Standards - Maximum Contaminant Levels (MCLs)
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Utah - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S. - Vermont - Hazardous Waste - Hazardous Constituents
U.S. - Vermont - Permissible Exposure Limits - TWAs
U.S. - Virginia - Water Quality Standards - Public Water Supply Effluent Limits
U.S. - Virginia - Water Quality Standards - Surface Waters Not Used for the Public Water Supply Effluent Limits

U.S. - Washington - Dangerous Waste - Dangerous Waste Constituents List
U.S. - Washington - Permissible Exposure Limits - STELs
U.S. - Washington - Permissible Exposure Limits - TWAs
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

SECTION 16: OTHER INFORMATION

Revision date : 02/12/2014

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Carc. 2	Carcinogenicity Category 2
Comb. Dust	Combustible Dust
	May form combustible dust concentrations in air
H301	Toxic if swallowed
H332	Harmful if inhaled
H351	Suspected of causing cancer
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom) - US

CORNELL

Material Safety Data Sheets

Division of Facilities Services

DOD Hazardous Material Information (ANSI Format)
For Cornell University Convenience Only

ARSENIC METAL-MBE CHARGES, ARSENIC CHUNK & GRANULE

Section 1 - Product and Company Identification	Section 9 - Physical & Chemical Properties
Section 2 - Compositon/Information on Ingredients	Section 10 - Stability & Reactivity Data
Section 3 - Hazards Identification Including Emergency Overview	Section 11 - Toxicological Information
Section 4 - First Aid Measures	Section 12 - Ecological Information
Section 5 - Fire Fighting Measures	Section 13 - Disposal Considerations
Section 6 - Accidental Release Measures	Section 14 - MSDS Transport Information
Section 7 - Handling and Storage	Section 15 - Regulatory Information
Section 8 - Exposure Controls & Personal Protection	Section 16 - Other Information

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Section 1 - Product and Company Identification
ARSENIC METAL-MBE CHARGES, ARSENIC CHUNK & GRANULE

Product Identification: ARSENIC METAL-MBE CHARGES, ARSENIC CHUNK & GRANULE
Date of MSDS: 08/01/1997 **Technical Review Date:** 09/01/1999
FSC: 6810 **NIIN: LIIN:** 00N092040
Submitter: N NF
Status Code: A
MFN: 01
Article: N
Kit Part: N

Manufacturer's Information

Manufacturer's Name: UNITED MINERAL & CHEMICAL CORP
Manufacturer's Address1: 1100 VALLEYBROOK AVE
Manufacturer's Address2: LYNDHURST, NJ 07071
Manufacturer's Country: US
General Information Telephone: 201-507-3300
Emergency Telephone: (800)424-9300
Emergency Telephone: (800)424-9300
Chemtec Telephone: (800)424-9300
Proprietary: N
Reviewed: Y
Published: Y
CAGE: 87730

Contractor Information

Contractor's Name: UNITED MINERAL & CHEMICAL CORP
Contractor's Address1: 1100 VALLEYBROOK AVE
Contractor's Address2: LYNDHURST, NJ 07071
Contractor's Telephone: 201-507-3300
Contractor's CAGE: 87730

Section 2 - Compositon/Information on Ingredients
ARSENIC METAL-MBE CHARGES, ARSENIC CHUNK & GRANULE

Ingredient Name: ARSENIC; (ARSENIC METAL)
Ingredient CAS Number: 7440-38-2 **Ingredient CAS Code:** T
RTECS Number: CG0525000 **RTECS Code:** T
=WT: 100. **=WT Code:** M
=Volume: =Volume Code:
>WT: >WT Code:
>Volume: >Volume Code:
<WT: <WT Code:
<Volume: <Volume Code:
% Low WT: % Low WT Code:
% High WT: % High WT Code:
% Low Volume: % Low Volume Code:
% High Volume: % High Volume Code:
% Text:
% Enviromental Weight:
Other REC Limits: N/P
OSHA PEL: N/P **OSHA PEL Code:**
OSHA STEL: N/P **OSHA STEL Code:**
ACGIH TLV: 0.01 MG/M3 **ACGIH TLV Code:** T
ACGIH STEL: NOT ESTABLISHED **ACGIH STEL Code:** T
EPA Reporting Quantity: 1 LB
DOT Reporting Quantity: 1 LB
Ozone Depleting Chemical: N

Section 3 - Hazards Identification, Including Emergency Overview
ARSENIC METAL-MBE CHARGES, ARSENIC CHUNK & GRANULE

Health Hazards Acute & Chronic: ARSENIC METAL IS NOT AS READILY AVAIL IN THE BODY AS ARSENIC IN THE FORM OF DUST OR VAP OR WHEN PROCESSED INTO ARSENIC CMPDS (ARSENICALS). INORGANIC ARSENICALS ARE MORE TOXIC THAN ORGANIC ARSENICALS. ACUTE EFTS: ARSENIC IS POISON BY SUBCUTANEOUS, INTRAMUSCULAR & INTRAPERITONEAL ROUTES. ACUTE ARSENIC POISONING FROM INGEST RSLTS IN MARKED IRRIT OF STOMACH & INTESTINES W/NAUS, VOMIT & DIARR. IN SEV C ASES STOOLS & VOMIT ARE BLOODY & PATIENT MAY GO INTO COLLAPSE & SHOCK W/WEAK, RAPID PULSE, COLD SWEATS, COMA & DEATH. INHAL MAY CAUSE ULCERATION OF NASAL SEPTUM, RESP IRRIT. SKIN/EYE CNTCT MAY CAUSE DERM, SKIN & EYE (EFTS OF OVEREXP)

Signs & Symptoms of Overexposure:
HLTH HAZS: IRRIT. CHRONIC EFTS: ARSENIC IS CONFIRMED HUMAN CARCIN PRODUCING LIVER TUMORS & AN EXPERIMENTAL TERATOGEN (MAY CAUSE DMG TO DEVELOPING FETUS). CHRONIC ARSENIC POISONING MAY INCL ANY/ALL OF FOLLOWING: DIGEST SYS DISTURBS, LOSS OFAPPETITE, CRAMPS, NAUS, CONSTIP, DIARR; LIVER DMG WHICH MAY RSLT IN JAUN; DISTURBS OF BLOOD, KIDNEYS & NERVOUS SYS; SKIN ABNORMS INCL ITCHING, PIGMENTATION & POS S CANCEROUS CHGS. TARGET ORGANS FOR INORGANIC CMPDS AS AS): LIVER, KIDNEYS, SKIN, LUNGS, LYMPHATIC SYS. TLV: 0.01 MG/M3 TWA ARSENIC, ELEMENTAL & INORGANIC CMPDS (EXCEPT ARSINE), AS AS. OSHA PEL: (SUPD AT)

Medical Conditions Aggravated by Exposure:
KNOWN EFFECTS ON OTHER ILLNESSES: GASTROINTESTINAL. NERVOUS SYSTEM. SKIN. LIVER & KIDNEY PROBLEMS. AFTER EXPOSURE HAVE URINE TEST.

LD50 LC50 Mixture: LD50: (ORAL, RAT) 763 MG/M3

Route of Entry Indicators:
- **Inhalation:** YES
- **Skin:** YES
- **Ingestion:** YES

Carcenogenicity Indicators
- **NTP:** YES
- **IARC:** YES
- **OSHA:** YES

Carcinogenicity Explanation: ARSENIC: IARC MONOGRAPHS, SUPPLEMENT, VOL 7, PG 100, 1987: GROUP 1. NTP 8TH ANNUAL REPORT ON CARCINOGENS, 1998: KNOWN TO BE CARCINOGEN. OSHA REGULATED: CFR 29 1910.1018.

Section 4 - First Aid Measures
ARSENIC METAL-MBE CHARGES, ARSENIC CHUNK & GRANULE

First Aid:
SKIN: FLUSH WITH SOAP AND WATER. AVOID RUBBING INTO SKIN. CONTACT MD IMMEDIATELY. EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. CONTACT PHYSICIAN IMMEDIATELY. INHALATION: REMOVE TO FRESH AIR. PROVID E OXYGEN IF NECESSARY. CONTACT PHYSICIAN IMMEDIATELY. INGESTION: TREATMENT WITH BAS(DIMERCAPTOL) IS OF QUESTIONABLE EFFECTIVENESS IN TRIVALENT ARSENIC COMPOUNDS. INDUCE VOMITING AND DO GASTRIC LAVAGE. GET PERSONNEL TO HOSPITAL IMMEDIATELY. A PHYSICIAN CAN INITIATE AN EXCHANGE TRANSFUSION AND DIALYSIS. ALSO ABSORPTION AND REMOVAL WITH ANIMAL BONE COAL OR FE(OH)*2 SHOULD BE DONE.

Section 5 - Fire Fighting Measures
ARSENIC METAL-MBE CHARGES, ARSENIC CHUNK & GRANULE

Fire Fighting Procedures:
USE NIOSH APPRVD SCBA & FULL PROT EQUIP (FP N). RESTRICT PERS NOT WEARING PROT EQUIP FROM AREA. TRY TO SNUFF FIRE W/SAND, DRY MEDIA, FOAM OR CO*2. IF NO OTHER OPTIONS AVAILABLE, USE WATER & ALWAYS WEA R NIOSH APPRVD SCBA OR NIOSH TOXIC VAPOR RESP. POISONOUS GASES ARE PRODUCED IN FIRE, INCLUDING ARSENIC OXIDES.
Unusual Fire or Explosion Hazard:
ARSENIC, WHEN HEATED OR IN CONTACT W/ACID OR ACID FUMES, CAN PRODUCE HIGHLY TOXIC FUMES. ARSENIC REACTS VIGOROUSLY W/OXIDIZING MATLS. ARSENIC IS FLAMMABLE IN FORM OF DUST WHEN EXPOSED TO HEAT OR FLAME OR BY CHEMICAL RXN W/POWERFUL OXIDIZERS. SLIGHT EXPLOSION HAZ EXISTS IN FORM OF DUST WHEN EXPOSED TO (ECOLOGICAL INFO)
Extinguishing Media:
FOAM, CARBON DIOXIDE, DRY CHEMICAL.
Flash Point: Flash Point Text: NONE

Autoignition Temperature:
Autoignition Temperature Text: N/K
Lower Limit(s): N/A
Upper Limit(s): N/A

Section 6 - Accidental Release Measures
ARSENIC METAL-MBE CHARGES, ARSENIC CHUNK & GRANULE

Spill Release Procedures:
RESTRICT PERSONS NOT WEARING PROTECTIVE EQUIPMENT FROM AREA UNTIL CLEANUP IS COMPLETE. WEARING NIOSH APPROVED RESPIRATOR, GLOVES, GOGGLES, LAB COAT, GATHER UP CHUNKS, RODS OR GRANULES WITH VACUUM OR U TENSILS RESERVED FOR POISONOUS SOLIDS. AVOID RAISING DUST. VENTILATE THE AREA AFTER CLEANUP IS COMPLETE.

Section 7 - Handling and Storage
ARSENIC METAL-MBE CHARGES, ARSENIC CHUNK & GRANULE

Handling and Storage Precautions:

Other Precautions:

Section 8 - Exposure Controls & Personal Protection
ARSENIC METAL-MBE CHARGES, ARSENIC CHUNK & GRANULE

Repiratory Protection:
NIOSH APPROVED, AIR PURIFYING, TOXIC VAPOR RESPIRATOR TO PARTICULATE AND FUME AIR LEVEL. FOR INORGANIC ARSENIC APPLICATIONS, SEE 29 CFR 1910.1018 FOR PROPER RESPIRATOR SELECTION.
Ventilation:
LOC EXHST/MECH (GEN) SCRUBBER OR TRAP IF POSS TO MAINTAIN EXPOS TO LESS THAN PERMISSIBLE LIMITS FOR ELEMENTAL ARSENIC & ANY CMPDS BEING GENERATED.

Protective Gloves:
NEOPRENE OR PLASTIC.
Eye Protection: ANSI APPROVED CHEMICAL WORKERS GOGGLES (FP N).
Other Protective Equipment: ANSI APPROVED EYE WASH AND DELUGE SHOWER (FP N). LAB COAT.
Work Hygenic Practices: N/P
Supplemental Health & Safety Information: EFTS OF OVEREXP: 0.01 MG/M3 AS AS & INORGANIC CMPDS; 0.5 AS AS ORGANIC CMPDS. ACGIH TLV: 0.01 MG/M3 TWA ARSENIC, ELEMENTAL & INORGANIC CMPDS (EXCEPT ARSINE), AS AS. ALSO SEE TOXICOLOGICAL INFO. WASTE DISP METH: HAZ DEPENDING ON LEVEL OF TOX CHARACT OF ARSENIC. SEE 40 CFR 261.24 FOR DETERMINATION. (OTHER INFO)

Section 9 - Physical & Chemical Properties
ARSENIC METAL-MBE CHARGES, ARSENIC CHUNK & GRANULE

HCC:
NRC/State License Number:
Net Property Weight for Ammo:
Boiling Point: =612.C, 1133.6F **Boiling Point Text:** SUBLIMES
Melting/Freezing Point: =814.C, ######F **Melting/Freezing Text:** @ 36 ATM. FP:N/A
Decomposition Point: Decomposition Text: N/P
Vapor Pressure: 1 MMHG @ 372C **Vapor Density:** N/A
Percent Volatile Organic Content:
Specific Gravity: 5.727
Volatile Organic Content Pounds per Gallon:
pH: NONE-0% IN H*2O
Volatile Organic Content Grams per Liter:
Viscosity: N/P
Evaporation Weight and Reference: N/A
Solubility in Water: INSOLUBLE
Appearance and Odor: SILVER GRAY CRYSTALLINE CHUNKS, RODS OR GRANULES; NO ODOR AS (ECOLOGICAL INFO)
Percent Volatiles by Volume: N/A (BY WT)
Corrosion Rate: N/P

Section 10 - Stability & Reactivity Data
ARSENIC METAL-MBE CHARGES, ARSENIC CHUNK & GRANULE

Stability Indicator: YES
Materials to Avoid:
INCOMPATIBLE W/BROMINE AZIDE, DIRUBIDIUM ACETYLIDE, HALOGENS, PALLADIUM ZINC, PLATINUM, NCL*3, AGNO*3, CRO*3, NA*2O*2, HEXAFLUOROISOPROPYLIDENEAMINO LITHIUM. CAN REACT W/ACIDS OR ACID FUMES & POWERFUL OXIDIZERS SUCH AS BROM
Stability Condition to Avoid:
AVOID OPEN CONTAINERS AND CONTACT WITH INCOMPATIBLE MATERIALS.
Hazardous Decomposition Products:
ARSENIC FUMES, ARSINE, OTHER ARSENIC COMPOUNDS.
Hazardous Polymerization Indicator: NO
Conditions to Avoid Polymerization:
N/P

Section 11 - Toxicological Information

ARSENIC METAL-MBE CHARGES, ARSENIC CHUNK & GRANULE

Toxicological Information:
LD50: TDLO 605 ?G/KG. ORAL-MAN TDLO 7857 MG/KG/55Y SKIN. DERMAL IRRITATION-RABBIT: UNKNOWN; SUBCUTANEOUS IMPLANT RABBIT LTLO 75 MG/KG. EYE IRRITATION-RABBIT: UNKNOWN.

Section 12 - Ecological Information
ARSENIC METAL-MBE CHARGES, ARSENIC CHUNK & GRANULE

Ecological Information:
N/P. EXPLO HAZ: FLAME. IN EVENT OF A FIRE OR SPILL CONTACT THE STATE DEPARTMENT OF THE ENVIRONMENT & YOUR REGIONAL OFFICE OF THE FEDERAL EPA. PHYSICAL DATA - APPEAR/ODOR: METAL AS COMPOUND, ASH*3, HAS GARLIC ODOR. ODOR THRESHOLD: N/A. MATLS TO AVOID: CHLORATES, IODATES, PEROXIDES, LITHIUM, NACL*3, KMNO*3, RB*2C*2, AGNO*4, NOCL, IF*5, CRO*3, CLF*3, CLO, BRF*3, BRF*5, BRN*3, RBC*3BCH, CSC*3BCH.

Section 13 - Disposal Considerations
ARSENIC METAL-MBE CHARGES, ARSENIC CHUNK & GRANULE

Waste Disposal Methods:
SOLID WASTES SHOULD BE VITRIFIED, PLACED IN LABELED CNTNR & BURIED IN EPA SUPERVISED FACILITY. ETCHING SOLNS & CUTTING WASTES SHOULD BE PRECIPITATED, CEMENTED/VITRIFIED & PLACED IN METAL/PLASTIC LABEL ED CNTNRS & BURIED IN EPA SUPERVISED FACILITY. PASS GAS THRU POTASSIUM PERMANGANATE, PRECIPITATE & T REAT AS ABOVE. WASTE MAY BE CONSIDERED (SUPDAT)

Section 14 - MSDS Transport Information
ARSENIC METAL-MBE CHARGES, ARSENIC CHUNK & GRANULE

Transport Information:
DOT REGULATED: YES. RQ: (NA - PIECES ARE LARGER THAN 100 MICROMETERS IN DIAMETER). IF REGULATED, PROPER SHIPPING NAME: ARSENIC. HAZARD CLASS: (6.1). IDENTIFICATION NO: (UN1558). PACKING GROUP: (III). LABEL REQUIRED: (POISON). INLAND B/L: ARSENIC, 6.1, UN1558, PACKING GROUP II, POISON. EMERGENCY RESPONSE GUIDE NO: (152).

Section 15 - Regulatory Information
ARSENIC METAL-MBE CHARGES, ARSENIC CHUNK & GRANULE

SARA Title III Information:
SARA TITLE III, SECT 313: LISTED.
Federal Regulatory Information:
TSCA: WE CERTIFY THAT ALL COMPONENTS OF THIS PRODUCT ARE REGISTERED UNDER THE REGULATIONS OF THE TOXIC SUBSTANCES CONTROL ACT. HMIS: HEALTH (4); FLAMMABILITY (0); REACTIVITY (1).
State Regulatory Information:

Section 16 - Other Information
ARSENIC METAL-MBE CHARGES, ARSENIC CHUNK & GRANULE

Other Information:
WASTE DISP METH: HAZARDOUS DEPENDING ON LEVEL OF TOXICITY CHARACTERISTIC OF ARSENIC. SEE 40 CFR 261.24 FOR DETERMINATION. RCRA HAZARDOUS WASTE: YES RCRA @: D004; IF TESTED POSITIVE AS CHARACT OF TOXIC ITY FOR ARSENIC. CERCLA: YES. RQ (1 LB RQ IS APPLICABLE ONLY IF DIAMETER OF PIECES OF SOLID METAL RELEASED IS LESS THAN 100 MICROMETERS OR 0.004 INCH. THIS PROD FORM IS LARGER THAN 100 MICROMETERS & H AS NO RQ IN ITS CURRENT FORM. IF AS HAZ WASTE CHARACT OF ARSENIC, THEN RQ=1LB. FOLLOW ALL LOCAL, STATE AND FEDERAL INFO & REGULATIONS.

HAZCOM Label Information

Product Identification: ARSENIC METAL-MBE CHARGES, ARSENIC CHUNK & GRANULE
CAGE: 87730
Assigned Individual: N
Company Name: UNITED MINERAL & CHEMICAL CORP
Company PO Box:
Company Street Address1: 1100 VALLEYBROOK AVE
Company Street Address2: LYNDHURST, NJ 07071 US
Health Emergency Telephone: (800)424-9300
Label Required Indicator: Y
Date Label Reviewed: 09/01/1999
Status Code: A
Manufacturer's Label Number:
Date of Label:
Year Procured: N/K
Organization Code: F
Chronic Hazard Indicator: Y
Eye Protection Indicator: YES
Skin Protection Indicator: YES
Respiratory Protection Indicator: YES
Signal Word: DANGER
Health Hazard: Severe
Contact Hazard: Severe
Fire Hazard: None
Reactivity Hazard: Slight

8/9/2002 10:40:46 AM

Barium Metal

MSDS # 84.00

Section 1: Product and Company Identification

Barium Metal

Synonyms/General Names: Barium
Product Use: For educational use only
Manufacturer: Columbus Chemical Industries, Inc., Columbus, WI 53925.

24 Hour Emergency Information Telephone Numbers

CHEMTREC (USA): 800-424-9300 **CANUTEC (Canada): 613-424-6666**

ScholAR Chemistry; 5100 W. Henrietta Rd, Rochester, NY 14586; (866) 260-0501; www.Scholarchemistry.com

Section 2: Hazards Identification

Soft, silvery, lustrous metal immersed in heavy mineral oil; no odor.

HMIS (0 to 4)

Health	3
Fire Hazard	3
Reactivity	2

WARNING! Flammable solid, dangerous when wet, highly toxic by ingestion.
Flammable solid, keep away from all ignition sources. Contact with water produces flammable gas.
Target organs: Central nervous system, kidneys.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Section 3: Composition / Information on Ingredients

Barium Metal (7440-39-3), 100%

Section 4: First Aid Measures

Always seek professional medical attention after first aid measures are provided.

Eyes: Immediately flush eyes with excess water for 15 minutes, lifting lower and upper eyelids occasionally.
Skin: Immediately flush skin with excess water for 15 minutes while removing contaminated clothing.
Ingestion: Call Poison Control immediately. Rinse mouth with cold water. Give victim 1-2 tbsp of activated charcoal mixed with 8 oz water.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration.

Section 5: Fire Fighting Measures

Flammable solid. When heated to decomposition, emits acrid fumes and explosive hydrogen gas.

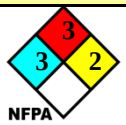

Protective equipment and precautions for firefighters: Do Not Use carbon dioxide, foam, water or halogenated extinguishing agents. Use class D extinguisher or smother with dry sand, dry clay, dry ground limestone or dry graphite. Firefighters should wear full fire fighting turn-out gear and respiratory protection (SCBA). Material is not sensitive to mechanical impact or static discharge.

Section 6: Accidental Release Measures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all ignition sources and ventilate area. Sweep up spill and place material in a dry container for disposal. See Section 13 for disposal information.

Section 7: Handling and Storage Red

Handling: Use with adequate ventilation and do not breathe dust or vapor. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling.
Storage: Store in Flammable Area [Red Storage] with other flammable materials and away from any strong oxidizers. Store in a dedicated flammables cabinet. Store in a cool, dry, well-ventilated, locked store room away from incompatible materials.

Section 8: Exposure Controls / Personal Protection

Use ventilation to keep airborne concentrations below exposure limits. Have approved eyewash facility, safety shower, and fire extinguishers readily available. Wear chemical splash goggles and chemical resistant clothing such as gloves and aprons. Wash hands thoroughly after handling material and before eating or drinking. Use NIOSH-approved respirator with a dust cartridge. Exposure guidelines: Barium compounds: OSHA PEL: 0.5 mg/m^3 and ACGIH TLV: 0.5 mg/m^3, STEL: N/A.

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Section 9: Physical and Chemical Properties

Molecular formula	Ba.	**Appearance**	Silver metal in heavy mineral oil.
Molecular weight	137.33.	**Odor**	No odor.
Specific Gravity	3.62 g/mL @ 20°C..	**Odor Threshold**	N/A.
Vapor Density (air=1)	N/A.	**Solubility**	Reacts violently with water.
Melting Point	850°C.	**Evaporation rate**	N/A *(Butyl acetate = 1).*
Boiling Point/Range	1695°C.	**Partition Coefficient**	N/A *(log P_{OW}).*
Vapor Pressure (20°C)	N/A.	**pH**	N/A.
Flash Point:	N/A.	**UEL**	N/A.
Autoignition Temp.:	N/A.	**LEL**	N/A.

N/A = Not available or applicable

Section 10: Stability and Reactivity

Avoid heat and ignition sources
Stability: Stable under normal conditions of use.
Incompatibility: Water, acids, chlorine, iodine, bromine and oxidizing agents.
Shelf life: Indefinite if stored properly.

Section 11: Toxicology Information

Acute Symptoms/Signs of exposure: ***Eyes***: Stinging pain, burns, watering of eyes, inflammation of eyelids and conjunctivitis. Avoid looking at burning magnesium. ***Skin***: Irritation, redness, burns. Powdered metal ignites readily on skin causing burns. ***Ingestion***: Nausea, vomiting and headache. ***Inhalation***: Rapid irregular breathing, headache, burns to mucous membranes. Inhalation of dust or fumes causes metal fume fever.
Chronic Effects: Repeated/prolonged skin contact may cause dryness or rashes.
Sensitization: none expected
Barium: LD50 [oral, rat]; Not Available; LC50 [rat]; Not Available; LD50 Dermal [rabbit]; Not Available
Material has not been found to be a carcinogen nor produce genetic, reproductive, or developmental effects.

Section 12: Ecological Information

Ecotoxicity (aquatic and terrestrial): LC50 – 500mg/l – 96h – Cyprinodon variegates.

Section 13: Disposal Considerations

Check with all applicable local, regional, and national laws and regulations. Local regulations may be more stringent than regional or national regulations. Use a licensed chemical waste disposal firm for proper disposal.

Section 14: Transport Information

DOT Shipping Name:	Barium.	**Canada TDG:**	Barium .
DOT Hazard Class:	4.3, pg II.	**Hazard Class:**	4.3, pg II.
Identification Number:	UN1400.	**UN Number:**	UN1400.

Section 15: Regulatory Information

EINECS: Listed (231-149.1) .
WHMIS Canada: B6:D2B: Reactive Flammable: Toxic Material.
TSCA: All components are listed or are exempt.
California Proposition 65: Not listed.
The product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16: Other Information

Current Issue Date: September 22, 2012
Disclaimer: Scholar Chemistry and Columbus Chemical Industries, Inc., ("S&C") believes that the information herein is factual but is not intended to be all inclusive. The information relates only to the specific material designated and does not relate to its use in combination with other materials or its use as to any particular process. Because safety standards and regulations are subject to change and because S&C has no continuing control over the material, those handling, storing or using the material should satisfy themselves that they have current information regarding the particular way the material is handled, stored or used and that the same is done in accordance with federal, state and local law. ***S&C makes no warranty, expressed or implied, including (without limitation) warranties with respect to the completeness or continuing accuracy of the information contained herein or with respect to fitness for any particular use.***

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SAFETY DATA SHEET

Benzene

Section 1. Identification

GHS product identifier : Benzene

Chemical name : benzene

Other means of identification : benzene, purebenzol; cyclohexatriene; phenyl hydride; phene; coal naphtha; pyrobenzol

Product use : Synthetic/Analytical chemistry.

Synonym : benzene, purebenzol; cyclohexatriene; phenyl hydride; phene; coal naphtha; pyrobenzol

SDS # : 001062

Supplier's details : Airgas USA, LLC and its affiliates
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253

Emergency telephone number (with hours of operation) : 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 2
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
GERM CELL MUTAGENICITY - Category 1B
CARCINOGENICITY - Category 1
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (bone marrow) - Category 1

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : Highly flammable liquid and vapor.
May form explosive mixtures with air.
Causes serious eye irritation.
Causes skin irritation.
May cause genetic defects.
May cause cancer.
Causes damage to organs through prolonged or repeated exposure. (bone marrow)

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

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Section 2. Hazards identification

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Response : Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage : Store locked up. Store in a well-ventilated place. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : benzene

Other means of identification : benzene, purebenzol; cyclohexatriene; phenyl hydride; phene; coal naphtha; pyrobenzol

CAS number/other identifiers

CAS number : 71-43-2

Product code : 001062

Ingredient name	%	CAS number
benzene	100	71-43-2

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Section 4. First aid measures

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes skin irritation.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Ingestion : Harmful if swallowed. Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
irritation
redness

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

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Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
benzene	**ACGIH TLV (United States, 3/2012).** **Absorbed through skin.** STEL: 8 mg/m³ 15 minutes. STEL: 2.5 ppm 15 minutes. TWA: 1.6 mg/m³ 8 hours. TWA: 0.5 ppm 8 hours. **NIOSH REL (United States, 1/2013).** STEL: 1 ppm 15 minutes. TWA: 0.1 ppm 10 hours. **OSHA PEL (United States, 6/2010).** STEL: 5 ppm 15 minutes. TWA: 1 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** STEL: 5 ppm 15 minutes. TWA: 1 ppm 8 hours. **OSHA PEL Z2 (United States, 11/2006).** AMP: 50 ppm 10 minutes. CEIL: 25 ppm TWA: 10 ppm 8 hours.

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Section 8. Exposure controls/personal protection

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. [Watery liquid.]

Color : Colorless. Yellowish.

Molecular weight : 78.12 g/mole

Molecular formula : C6-H6

Boiling/condensation point : 80.09°C (176.2°F)

Melting/freezing point : 5.49°C (41.9°F)

Critical temperature : 288.95°C (552.1°F)

Odor : Characteristic.

Odor threshold : Not available.

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Section 9. Physical and chemical properties

pH	:	Not available.
Flash point	:	Closed cup: -11°C (12.2°F)
Burning time	:	Not applicable.
Burning rate	:	Not applicable.
Evaporation rate	:	3.5 (butyl acetate = 1)
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	Lower: 1.2% Upper: 7.8%
Vapor pressure	:	10 kPa (75.006094245 mm Hg) [room temperature]
Vapor density	:	2.7 (Air = 1)
Specific Volume (ft ^{3}/lb)	:	1.1403
Gas Density (lb/ft ^{3})	:	0.877 (20°C / 68 to °F)
Relative density	:	0.88
Solubility	:	Not available.
Solubility in water	:	1.88 g/l
Partition coefficient: n-octanol/water	:	2.13
Auto-ignition temperature	:	498°C (928.4°F)
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic (room temperature): 0.604 mPa·s (0.604 cP)

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatibility with various substances	:	Highly reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	:	Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
benzene	LC50 Inhalation Gas. LD50 Oral	Rat Rat	10000 ppm 930 mg/kg	7 hours -

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
benzene	Eyes - Moderate irritant Eyes - Severe irritant Skin - Mild irritant Skin - Mild irritant Skin - Moderate irritant	Rabbit Rabbit Rat Rabbit Rabbit	- - - - -	88 milligrams 24 hours 2 milligrams 8 hours 60 microliters 24 hours 15 milligrams 24 hours 20 milligrams	- - - - -

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
benzene	+	1	Known to be a human carcinogen.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
benzene	Category 1	Not determined	bone marrow

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

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Section 11. Toxicological information

Skin contact : Causes skin irritation.

Ingestion : Harmful if swallowed. Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
irritation
redness

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : Causes damage to organs through prolonged or repeated exposure.

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : May cause genetic defects.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

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Section 12. Ecological information

Product/ingredient name	$LogP_{ow}$	BCF	Potential
benzene	2.13	11	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
Benzene (I,T)	71-43-2	Listed	U019

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1114	UN1114	UN114	UN1114	UN1114
UN proper shipping name	BENZENE	BENZENE	BENZENE	BENZENE	BENZENE
Transport hazard class(es)	3	3	3	3	3
Packing group	II	II	II	II	II
Environment	No.	No.	No.	No.	No.
Additional information	**Reportable quantity** 10 lbs / 4.54 kg [1.3675 gal / 5.1767 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.	**Explosive Limit and Limited Quantity Index** 1 **Passenger Carrying Road or Rail Index** 5	-	-	**Passenger and Cargo Aircraft**Quantity limitation: 5 L **Cargo Aircraft Only** Quantity limitation: 60 L **Limited Quantities - Passenger Aircraft** Quantity limitation: 1 L

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Section 14. Transport information

	Limited quantity Yes. **Packaging instruction** **Passenger aircraft** Quantity limitation: 5 L **Cargo aircraft** Quantity limitation: 60 L **Special provisions** IB2, T4, TP1				

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined
United States inventory (TSCA 8b): This material is listed or exempted.
Clean Water Act (CWA) 307: benzene
Clean Water Act (CWA) 311: benzene

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Fire hazard
Immediate (acute) health hazard
Delayed (chronic) health hazard

Composition/information on ingredients

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Section 15. Regulatory information

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
benzene	100	Yes.	No.	No.	Yes.	Yes.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	benzene	71-43-2	100
Supplier notification	benzene	71-43-2	100

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : This material is listed.

New York : This material is listed.

New Jersey : This material is listed.

Pennsylvania : This material is listed.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
benzene	Yes.	Yes.	6.4 µg/day (ingestion) 13 µg/day (inhalation)	24 µg/day (ingestion) 49 µg/day (inhalation)

Canada inventory : This material is listed or exempted.

International regulations

International lists : **Australia inventory (AICS)**: This material is listed or exempted.
China inventory (IECSC): This material is listed or exempted.
Japan inventory: This material is listed or exempted.
Korea inventory: This material is listed or exempted.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted.
Philippines inventory (PICCS): This material is listed or exempted.
Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : Not listed

Canada

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Section 15. Regulatory information

WHMIS (Canada) : Class B-2: Flammable liquid
Class D-2A: Material causing other toxic effects (Very toxic).
Class D-2B: Material causing other toxic effects (Toxic).

CEPA Toxic substances: This material is listed.
Canadian ARET: This material is not listed.
Canadian NPRI: This material is listed.
Alberta Designated Substances: This material is not listed.
Ontario Designated Substances: This material is not listed.
Quebec Designated Substances: This material is not listed.

Section 16. Other information

Canada Label requirements : Class B-2: Flammable liquid
Class D-2A: Material causing other toxic effects (Very toxic).
Class D-2B: Material causing other toxic effects (Toxic).

Hazardous Material Information System (U.S.A.)

Health	*	2
Flammability		3
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of printing : 4/26/2015.
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Date of previous issue : 10/16/2014.
Version : 0.03

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Section 16. Other information

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United NationsACGIH – American Conference of Governmental Industrial Hygienists
AIHA – American Industrial Hygiene Association
CAS – Chemical Abstract Services
CEPA – Canadian Environmental Protection Act
CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act (EPA)
CFR – United States Code of Federal Regulations
CPR – Controlled Products Regulations
DSL – Domestic Substances List
GWP – Global Warming Potential
IARC – International Agency for Research on Cancer
ICAO – International Civil Aviation Organisation
Inh – Inhalation
LC – Lethal concentration
LD – Lethal dosage
NDSL – Non-Domestic Substances List
NIOSH – National Institute for Occupational Safety and Health
TDG – Canadian Transportation of Dangerous Goods Act and Regulations
TLV – Threshold Limit Value
TSCA – Toxic Substances Control Act
WEEL – Workplace Environmental Exposure Level
WHMIS – Canadian Workplace Hazardous Material Information System

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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SAFETY DATA SHEET

Based on Directive 2001/58/EC et seq. of the Commission of the European Communities

BENZO[b]FLUORANTHENE

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Synonyms: benz[e]acephenanthrylene

CAS No.	: 205-99-2	**BCR number**	: BCR-47
EC index No.	: 601-034-00-4	**NFPA code**	: N.D.
EINECS No.	: 205-911-9	**Molecular weight**	: 252.32
RTECS No.	: CU1400000	**Formula**	: $C_{20}H_{12}$

1.2 Use of the substance or the preparation:
Certified reference material for laboratory use only

1.3 Company/undertaking identification:
Institute for Reference Materials and Measurements
Retieseweg
B-2440 Geel
Tel. : +32 14 57 12 11
Fax : +32 14 58 42 73

1.4 Telephone number for emergency:
+32 70 245 245
Antigifcentrum
p/a Militair Hospitaal Koningin Astrid, Bruynstraat, B-1120 Brussel

2. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS No.	Conc. in %	Hazard symbol	Risks (R-phrases)
benzo[b]fluoranthene	205-99-2 205-911-9	100	T;N	45-50/53 (1)

(1) For R-phrases in full: see heading 16

3. Hazards identification

- May cause cancer
- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

4. First aid measures

4.1 Eye contact:
- Consult a doctor/medical service if irritation persists
- Rinse immediately with water
- Do not apply neutralizing agents

4.2 Skin contact:
- Consult a doctor/medical service if irritation persists
- Wash with water and soap
- Remove clothing before washing
- Do not apply (chemical) neutralizing agents

4.3 After inhalation:
- Consult a doctor/medical service if breathing problems develop
- Remove the victim into fresh air
- Unconscious: maintain adequate airway and respiration

4.4 After ingestion:
- Consult a doctor/medical service if you feel unwell

- Immediately give lots of water to drink
-- Never give water to an unconscious person
- Do not induce vomiting

5. Fire-fighting measures

5.1 Suitable extinguishing media:
- Water spray
- Polymer foam
- ABC powder
- Carbon dioxide

5.2 Unsuitable extinguishing media:
- Solid water jet ineffective as extinguishing medium

5.3 Special exposure hazards:
- Not easily combustible
- Upon combustion CO and CO2 are formed

5.4 Instructions:
- Take account of toxic firefighting water
- Use firefighting water moderately and contain it

5.5 Special protective equipment for firefighters:
- Heat/fire exposure: compressed air/oxygen apparatus
- Dust cloud production: compressed air/oxygen apparatus

6. Accidental release measures

6.1 Personal protection/precautions: see 8.1/8.3/10.3

6.2 Environmental precautions:
- Prevent soil and water pollution
- Substance must not be discharged into the sewer
- Dam up the solid spill

6.3 Methods for cleaning up:
- Stop dust cloud by covering with sand/earth
- Carefully collect the spill/leftovers
- Scoop solid spill into closing containers
- Take collected spill to manufacturer/competent authority
- Clean contaminated surfaces with an excess of water
- Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:
- Observe strict hygiene
- Avoid prolonged and repeated contact with skin
- Avoid raising dust
- Do not discharge the waste into the drain
- Clean contaminated clothing

7.2 Storage:
- Keep container tightly closed.
- Store in a cool area
- Store in a dry area
- Store in a dark area
- Keep away from: heat sources, ignition sources, oxidizing agents, acids

Storage temperature	:	N.D.	**°C**
Quantity limits	:	N.D.	**kg**
Storage life	:	N.D.	
Materials for packaging	:	N.D.	

7.3 Specific uses: N.D.

8. Exposure controls/Personal protection

8.1 Exposure limit values:

TLV-TWA	:	not listed
TLV-STEL	:	not listed
TLV-Ceiling	:	not listed
OES-LTEL	:	not listed
OES-STEL	:	not listed
MEL-LTEL	:	not listed
MEL-STEL	:	not listed
MAK	:	not listed
TRK	:	not listed
MAC-TGG 8 h	:	not listed
MAC-TGG 15 min.	:	not listed
MAC-Ceiling	:	not listed
VME-8 h	:	not listed
VLE-15 min.	:	not listed
GWBB-8 h	:	not listed
GWK-15 min.	:	not listed
Momentary value	:	not listed

Sampling methods:

- Benzo(b)fluoranthene (Polynuclear aromatic hydrocarbons) NIOSH 5515
- Benzo(b)fluoranthene (Polynuclear aromatic hydrocarbons) NIOSH 5506

8.2 Exposure controls:

8.2.1 Occupational exposure controls:
- Measure the concentration in the air regularly
- Work under local exhaust/ventilation

8.2.2 Environmental exposure controls: see 13

8.3 Personal protection:

8.3.1 respiratory protection:
- Dust production: dust mask with filter type P3
- High dust production: compressed air/oxygen apparatus

8.3.2 hand protection:
- Gloves
  Suitable materials: No data available
- Breakthrough time: N.D.

8.3.3 eye protection:
- Safety glasses
- In case of dust production: protective goggles

8.3.4 skin protection:
- Protective clothing
- In case of dust production: head/neck protection
  Suitable materials: No data available

9. Physical and chemical properties

9.1 General information:

Appearance (at 20°C)	:	Crystalline solid / Needles
Odour	:	Odourless
Colour	:	Colourless to off-white

9.2 Important health, safety and environmental information:

pH value	:	N.D.	
Boiling point/boiling range	:	N.D.	**°C**
Flashpoint	:	N.D.	**°C**
Explosion limits	:	N.D.	**vol%** (**°C**)
Vapour pressure (at 20°C)	:	0.00000067	**hPa**
Vapour pressure (at 50°C)	:	N.D.	**hPa**
Relative density (at 20°C)	:	N.D.	
Water solubility	:	0.00000012	**g/100 ml**
Soluble in	:	Acetone, oils/fats	
Relative vapour density	:	N.D.	
Viscosity	:	N.D.	**Pa.s**
Partition coëfficient n-octanol/water	:	6.57	
Evaporation rate			
ratio butyl acetate	:	N.D.	
ratio ether	:	N.D.	

9.3 Other information:

Melting point/melting range	:	168	**°C**
Auto-ignition point	:	N.D.	**°C**
Saturation concentration	:	N.D.	**g/m^3**

10. Stability and reactivity

10.1 Conditions to avoid/reactivity:
- Stable under normal conditions

10.2 Materials to avoid:
- Keep away from: heat sources, ignition sources, oxidizing agents, acids

10.3 Hazardous decomposition products:
- Upon combustion CO and CO2 are formed
- Reacts violently with (strong) oxidizers
- Decomposes on exposure to (strong) acids

11. Toxicological information

11.1 Acute toxicity:

LD50 oral rat	:	N.D.	**mg/kg**
LD50 dermal rat	:	N.D.	**mg/kg**
LD50 dermal rabbit	:	N.D.	**mg/kg**
LC50 inhalation rat	:	N.D.	**mg/l/4 h**
LC50 inhalation rat	:	N.D.	**ppm/4 h**

11.2 Chronic toxicity:

benzo[b]fluoranthene

EC carc. cat.	:	2
EC muta. cat.	:	not listed
EC repr. cat.	:	not listed
Carcinogenicity (TLV)	:	A2
Carcinogenicity (MAC)	:	K
Carcinogenicity (VME)	:	not listed
Carcinogenicity (GWBB)	:	not listed
Carcinogenicity (MAK)	:	2
Mutagenicity (MAK)	:	not listed
Teratogenicity (MAK)	:	-
IARC classification	:	2B

11.3 Routes of exposure: ingestion, inhalation, eyes and skin
Caution! Substance is absorbed through the skin

11.4 Acute effects/symptoms:

- **AFTER SKIN CONTACT**
  Slight irritation

11.5 Chronic effects:

- Probably human carcinogenic
- Not classified as toxic to reproduction (EC)

- **ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:**
  No specific information available

- SIMILAR PRODUCTS CAUSE FOLLOWING SYMPTOMS:
  Feeling of weakness
  Cracking of the skin
  Skin rash/inflammation
  Photoallergy
  Skin cancer
  Lung tissue affection/degeneration
  Enlargement/affection of the liver
  Affection of the renal tissue

12. Ecological information

12.1 Ecotoxicity:

- - No data available

12.2 Mobility:

- **Volatile organic compounds (VOC):** 0%

- Photolysis in water
- Forming sediments in water
- Insoluble in water

For other physicochemical properties see heading 9.

12.3 Persistence and degradability:

- **biodegradation BOD_5** : N.D. **% ThOD**
- **water** : - Not readily biodegradable in water
  - test: E 1/2 > 100 d.
- **soil** : **T ½:** > 87 **days**

12.4 Bioaccumulative potential:

- **log P_{ow}** : 6.57
- **BCF** : 168 h : 2800 (LAMELLIBRANCHIATA)
- Highly bioaccumulative

12.5 Other adverse effects:

- **WGK** : 3 (Classification based on the R-phrases in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)
- **Effect on the ozone layer** : Not dangerous for the ozone layer (Council Regulation (EC) No 3093/94, O.J. L333 of 22/12/94)
- **Greenhouse effect** : no data available
- **Effect on waste water purification** : no data available

13. Disposal considerations

13.1 Provisions relating to waste:

- Waste material code (91/689/EEC, Council Decision 201/118/EC, O.J. L47 of 16/2/2001):16 05 06 (laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory)
- Waste material code (Flanders): 001, 045, 691
- Waste code (Germany): 59302
- Hazardous waste (91/689/EEC)

13.2 Disposal methods:

- Dissolve or mix with a combustible solvent
- Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber
- Do not discharge into surface water (2000/60/EEC, Council Decision 2455/2001/EC, O.J. L331 of 15/12/2001)

13.3 Packaging/Container:

- Waste material code packaging (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10 (packaging containing residues of or contaminated by dangerous substances)

14. Transport information

90
3077

14.1 Classification of the substance in compliance with UN Recommendations

UN number	: 3077
CLASS	: 9
SUB RISKS	: -
PACKING	: III
PROPER SHIPPING NAME	: UN 3077, Environmentally hazardous substance, solid, n.o.s. (benz[e]acephenanthrylene)

14.2 ADR (transport by road)

CLASS	: 9
PACKING	: III
DANGER LABEL TANKS	: 9
DANGER LABEL PACKAGES	: 9

14.3 RID (transport by rail)

CLASS	: 9
PACKING	: III
DANGER LABEL TANKS	: 9
DANGER LABEL PACKAGES	: 9

14.4 ADNR (transport by inland waterways)

CLASS	: 9
PACKING	: III
DANGER LABEL TANKS	: 9
DANGER LABEL PACKAGES	: 9

14.5 IMDG (maritime transport)

CLASS	: 9
SUB RISKS	: -
PACKING	: III
MFAG	: -
EMS	: -
MARINE POLLUTANT	: P

14.6 ICAO (air transport)

CLASS	: 9
SUB RISKS	: -
PACKING	: III
PACKING INSTRUCTIONS PASSENGER AIRCRAFT	:
PACKING INSTRUCTIONS CARGO AIRCRAFT	:

14.7 Special precautions in connection with transport : none

When substances and their packaging meet the conditions established by ADR/RID/ADNR in chapter 3.4, **only** the following prescriptions shall be complied with:
each package shall display a diamond-shaped figure with the following inscription:
- 'UN 3077'
or, in the case of different goods with different identification numbers within a single package:
- the letters 'LQ'

15. Regulatory information

Enumerated in substance list Annex I of directive 67/548/EEC et sequens

Toxic

Dangerous for the environment

R45 : May cause cancer
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S53 : Avoid exposure - obtain special instructions before use
S45 : In case of accident or if you feel unwell, seek medical advice (show the label where possible)
S60 : This material and/or its container must be disposed of as hazardous waste
S61 : Avoid release to the environment. Refer to special instructions/safety data sheets.

16. Other information

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE
N.D. = NOT DETERMINED
***** = INTERNAL CLASSIFICATION

Full text of any R-phrases referred to under heading 2:

R45 : May cause cancer
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Exposure limits:
TLV : Threshold Limit Value - ACGIH USA 2000
OES : Occupational Exposure Standards - United Kingdom 1999
MEL : Maximum Exposure Limits - United Kingdom 1999
MAK : Maximale Arbeitsplatzkonzentrationen - Germany 2001
TRK : Technische Richtkonzentrationen - Germany 2001
MAC : Maximale aanvaarde concentratie - The Netherlands 2002
VME : Valeurs limites de Moyenne d'Exposition - France 1999
VLE : Valeurs limites d'Exposition à court terme - France 1999
GWBB : Grenswaarde beroepsmatige blootstelling - Belgium 1998
GWK : Grenswaarde kortstondige blootstelling - Belgium 1998
EC : Indicative occupational exposure limit values - directive 2000/39/EC

Chronic toxicity:
K : List of the carcinogenic substances and processes - The Netherlands 2002

BCR-048R: benzo[k]fluoranthene

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Product name: BCR-048R: benzo[k]fluoranthene

CAS number	207-08-9
EC index number	601-036-00-5
EINECS number	205-916-6
RTECS number	DF6350000
Molecular mass	252.32 g/mol
Formula	C20H12

1.2 Use of the substance/preparation:

Certified reference material for laboratory use only

1.3 Company/undertaking identification:

Institute for Reference Materials and Measurements
Retieseweg
B-2440 Geel
Tel: +32 14 57 12 11
Fax: +32 14 59 04 06
JRC-IRMM-RM-Sales@ec.europa.eu

1.4 Emergency telephone:

Poison Centre: +32 70 245 245

2. Hazards identification

NFPA: 1-1-2(*)

DSD/DPD

May cause cancer

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Other hazards

Its dust is explosive with air

Dust cloud can be ignited by a spark

Slightly irritant to skin

Slightly irritant to eyes

Caution! Substance is absorbed through the skin

No certainty about human mutagenic properties

Highly bioaccumulative

Not readily biodegradable in water

CLP

Carc. 1B	May cause cancer. (H350)
Aquatic Acute 1	Very toxic to aquatic life. (H400)
Aquatic Chronic 1	Very toxic to aquatic life with long lasting effects. (H410)

Other hazards

Its dust is explosive with air

Dust cloud can be ignited by a spark

Slightly irritant to skin

Slightly irritant to eyes

Caution! Substance is absorbed through the skin

No certainty about human mutagenic properties

Highly bioaccumulative

Not readily biodegradable in water

3. Composition/information on ingredients

Name	CAS No EINECS/ELINCS	Conc.	Classification according to DSD/DPD	Classification according to CLP	Note
benzo[k]fluoranthene	207-08-9 205-916-6		Carc. Cat. 2; R45 N; R50-53	Carc. 1B; H350 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	

4. First aid measures

4.1 After inhalation:

Remove the victim into fresh air

Respiratory problems: consult a doctor/medical service

4.2 Skin contact:

Rinse with water

Do not apply (chemical) neutralizing agents

Take victim to a doctor if irritation persists

4.3 Eye contact:

Rinse with water

Do not apply neutralizing agents

Take victim to an ophthalmologist if irritation persists

4.4 After ingestion:

Rinse mouth with water

Immediately after ingestion: give lots of water to drink

Do not induce vomiting

Consult a doctor/medical service if you feel unwell

5. Fire-fighting measures

5.1 Suitable extinguishing media:

Water spray

Polyvalent foam

ABC powder

Carbon dioxide

5.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known

5.3 Special exposure hazards:

Heating increases the fire hazard

Dust cloud can be ignited by a spark

Upon combustion CO and CO2 are formed

5.4 Instructions:

Take account of toxic fire-fighting water

Use water moderately and if possible collect or contain it

5.5 Special protective equipment for fire-fighters:

Gloves

Protective clothing

Heat/fire exposure: compressed air/oxygen apparatus

6. Accidental release measures

6.1 Personal precautions:

See heading 8.2

6.2 Environmental precautions:

Dam up the solid spill

Prevent soil and water pollution

Prevent spreading in sewers

See heading 13

6.3 Methods for cleaning up:

Scoop solid spill into closing containers
Carefully collect the spill/leftovers
Clean contaminated surfaces with an excess of water
Take collected spill to manufacturer/competent authority
Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:

Avoid raising dust
Warning! Avoid exposure
Keep away from naked flames/heat
Obtain special instructions before use
Observe strict hygiene
Keep container tightly closed
Do not discharge the waste into the drain

7.2 Storage:

Safe storage requirements:

Store in a cool area
Store in a dry area
Keep container in a well-ventilated place
Keep locked up
Unauthorized persons are not admitted
Meet the legal requirements

Keep away from:

oxidizing agents
(strong) acids

7.3 Specific use(s):

See information supplied by the manufacturer for the identified use(s)

8. Exposure controls/Personal protection

8.1 Exposure limit values:

8.1.1 Occupational exposure:

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods:

Product name	Test	Number	Sampling method	Remarks
Benz(a)Anthracene	OSHA	CSI		
Benz(a)Anthracene (Polynuclear aromatic hydrocarbons)	NIOSH	5506	adsorption tubes	
Benz(a)Anthracene (Polynuclear aromatic hydrocarbons)	NIOSH	5515	adsorption tubes	

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

Measure the concentration in the air regularly
Carry operations in the open/under local exhaust/ventilation or with respiratory protection
Personal protective equipment:

a) Respiratory protection:

Dust production: dust mask with filter type P3

b) Hand protection:

Gloves

c) Eye protection:

Safety glasses
In case of dust production: protective goggles

d) Skin protection:

Protective clothing

8.2.2 Environmental exposure controls:

See headings 6.2, 6.3 and 13

9. Physical and chemical properties

9.1 General information:

Physical form	Crystalline solid
	Needles
Colour	Light yellow

9.2 Important health, safety and environmental information:

Boiling point	480 °C
Vapour pressure (20°C)	< 0.00001 hPa
Solubility in water	< 0.00001 g/100 ml
Solubility in solvents	Soluble in ethanol
	Soluble in acetic acid
	Soluble in oils/fats
Log Pow	6.84

9.3 Other information:

Melting point	217 °C

10. Stability and reactivity

10.1 Conditions to avoid:

Possible fire hazard

heat sources
ignition sources

Stability

No data available

Reactions

Reacts violently with (strong) oxidizers

10.2 Materials to avoid:

oxidizing agents
(strong) acids

10.3 Hazardous decomposition products:

Upon combustion CO and CO2 are formed

11. Toxicological information

11.1 Acute toxicity:

No (test)data available.

11.2 Chronic toxicity:

Probably human carcinogenic
No certainty about human mutagenic properties
Not classified as toxic to reproduction (EC)

BCR-048R: benzo[k]fluoranthene

EC carc cat	2
Listed in SZW - List of carcinogenic substances	yes
IARC - classification	2B
MAK - Krebserzeugend Kategorie	2
MAK - Keimzellmutagen Kategorie	3B
MAK - Schwangerschaft Gruppe	-
CLP carc cat	category 1B

11.3 Acute effects/symptoms:

Inhalation:

No data available

Skin contact:

Slight irritation

Eye contact:

Slight irritation

Ingestion:

No data available

11.4 Chronic effects:

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:
No specific information available
SIMILAR PRODUCTS CAUSE FOLLOWING SYMPTOMS:
Feeling of weakness
Cracking of the skin
Skin rash/inflammation
Photoallergy
Skin cancer
Lung tissue affection/degeneration
Enlargement/affection of the liver
Affection of the renal tissue

12. Ecological information

12.1 Ecotoxicity:

No (test)data available.

12.2 Mobility:

Volatile organic compounds (VOC)	0 %
Solubility in/reaction with water	Insoluble in water
Water physicochemical processes	Forming sediments in water
Soil physicochemical processes	Adsorbs into the soil

12.3 Persistence and degradability:

Water abiotic degradation processes	Ozonation in water
Half-life soil	65 - 1400 days

Not readily biodegradable in water

12.4 Bioaccumulative potential:

Log Pow	6.84

Highly bioaccumulative

12.5 Results of PBT assessment:

Not applicable, based on available data

12.6 Other adverse effects:

Not dangerous for the ozone layer (Council Regulation (EC) no 1005/2009)

13. Disposal considerations

13.1 Provisions relating to waste:

Waste material code (Directive 2008/98/EC, decision 2001/118/EC)
16 05 06* : laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Depending on branch of industry and production process, also other EURAL codes may be applicable
Hazardous waste according to Directive 2008/98/EC

13.2 Disposal methods:

Dissolve or mix with a combustible solvent
Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery
Remove waste in accordance with local and/or national regulations
Do not discharge into surface water (2000/60/EC, Council decision 2455/2001/EC, O.J. L331 of 15/12/2001)

13.3 Packaging/Container:

Waste material code packaging (Directive 2008/98/EC)
15 01 10* : packaging containing residues of or contaminated by dangerous substances

{13.4 Entsorgung verschmutzter Gebinde:}

14. Transport information

ADR

Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Techn./chem. name ADR	benzo[k]fluoranthene
UN number	3077
Class	9
Packing group	III
Hazard identification number	90
Classification code	M7
Labels	9
Environmentally hazardous substance mark	yes

RID

Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Techn./chem. name RID	benzo[k]fluoranthene
UN number	3077
Class	9
Packing group	III
Classification code	M7
Labels	9
Environmentally hazardous substance mark	yes

ADNR

Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Techn./chem. name ADNR	benzo[k]fluoranthene
UN number	3077
Class	9
Packing group	III
Classification code	M7
Labels	9
Environmentally hazardous substance mark	yes

IMO

Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Techn./chem. name IMO	benzo[k]fluoranthene
UN number	3077
Class	9
Packing group	III
Labels	9
Marine pollutant	P
Environmentally hazardous substance mark	yes

ICAO

Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Techn./chem. name ICAO	benzo[k]fluoranthene
UN number	3077
Class	9
Packing group	III
Labels	9
Environmentally hazardous substance mark	yes

15. Regulatory information

15.1 EU Legislation:

DSD/DPD

Enumerated in substance list Annex I of directive 67/548/EEC et sequens

Dangerous for the environment

R-phrases

45	May cause cancer
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrases

53	Avoid exposure - obtain special instructions before use
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
60	This material and its container must be disposed of as hazardous waste
61	Avoid release to the environment. Refer to special instructions/safety data sheets.

Additional recommendations

	Restricted to professional users.

CLP

Classification and labelling according to Regulation (EC) No 1272/2008 – Annex VI and after evaluation of available test data

Signal word

Dgr	Danger

H-statements

H350	May cause cancer.
H410	Very toxic to aquatic life with long lasting effects.

P-statements

P202	Do not handle until all safety precautions have been read and understood.
P281	Use personal protective equipment as required.
P273	Avoid release to the environment.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P391	Collect spillage.
P405	Store locked up.

Supplemental information

	Restricted to professional users.

15.2 National provisions:

15.3 Specific community rules:

Enumerated in Annex XVII of Regulation (EC) No. 1907/2006: Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

Legislation	Reference legislation
EG/552/2009	See column 1: 28.
EG/552/2009	See column 1: 50. g)

16. Other information

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question.

Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult your BIG licence agreement for details.

(*) = INTERNAL CLASSIFICATION (NFPA)

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive
DPD Dangerous Preparation Directive
CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

Full text of any R-phrases referred to under headings 2 and 3:

R45	May cause cancer
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of any H-statements referred to under headings 2 and 3:

H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of any classes referred to under headings 2 and 3:

Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Carc.	Carcinogenicity

SAFETY DATA SHEET

Based on Directive 2001/58/EC et seq. of the Commission of the European Communities

BENZ[a]ANTHRACENE

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Synonyms: benzo(a)anthracene

CAS No.	: 56-55-3	**BCR number**	: BCR-271
EC index No.	: 601-033-00-9	**NFPA code**	: N.D.
EINECS No.	: 200-280-6	**Molecular weight**	: 228.30
RTECS No.	: CV9275000	**Formula**	: C18H12

1.2 Use of the substance or the preparation:
Certified reference material for laboratory use only

1.3 Company/undertaking identification:
Institute for Reference Materials and Measurements
Retieseweg
B-2440 Geel
Tel. : +32 14 57 12 11
Fax : +32 14 58 42 73

1.4 Telephone number for emergency:
+32 70 245 245
Antigifcentrum
p/a Militair Hospitaal Koningin Astrid, Bruynstraat, B-1120 Brussel

2. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS No.	Conc. in %	Hazard symbol	Risks (R-phrases)
Benzo[a]anthracene	56-55-3 200-280-6	100	T;N	45-50/53 (1)

(1) For R-phrases in full: see heading 16

3. Hazards identification

- May cause cancer
- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

4. First aid measures

4.1 Eye contact:
- Consult a doctor/medical service if irritation persists
- Rinse immediately with water

4.2 Skin contact:
- Consult a doctor/medical service if irritation persists
- Wash with water and soap
- Remove clothing before washing

4.3 After inhalation:
- Consult a doctor/medical service if breathing problems develop
- Remove the victim into fresh air
- Unconscious: maintain adequate airway and respiration

4.4 After ingestion:
- Consult a doctor/medical service if you feel unwell
- Immediately give lots of water to drink
- Never give water to an unconscious person

5. Fire-fighting measures

5.1 Suitable extinguishing media:
- Water spray
- Alcohol foam
- Polymer foam
- ABC powder
- Carbon dioxide

5.2 Unsuitable extinguishing media:
- Solid water jet ineffective as extinguishing medium

5.3 Special exposure hazards:
- Not easily combustible
- Upon combustion CO and CO2 are formed

5.4 Instructions:
- Take account of toxic firefighting water
- Use firefighting water moderately and contain it

5.5 Special protective equipment for firefighters:
- Heat/fire exposure: compressed air/oxygen apparatus
- Dust cloud production: compressed air/oxygen apparatus

6. Accidental release measures

6.1 Personal protection/precautions: see heading 8.1/8.3/10.3

6.2 Environmental precautions:
- Prevent soil and water pollution
- Substance must not be discharged into the sewer
- Dam up the solid spill

6.3 Methods for cleaning up:
- Stop dust cloud by covering with sand/earth
- Carefully collect the spill/leftovers
- Scoop solid spill into closing containers
- Take collected spill to manufacturer/competent authority
- Clean contaminated surfaces with an excess of water
- Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:
- Observe strict hygiene
- Avoid prolonged and repeated contact with skin
- Avoid raising dust
- Do not discharge the waste into the drain
- Remove contaminated clothing immediately

7.2 Storage:
- Keep container tightly closed. Store in a cool area. Store in a dry area.
- Store in a dark area.
- Keep away from: heat sources, ignition sources, oxidizing agents, acids

Storage temperature	:	N.D.	**°C**
Quantity limits	:	N.D.	**kg**
Storage life	:	N.D.	
Materials for packaging	:		

- suitable : no data available
- to avoid : no data available

7.3 Specific uses:
See information supplied by the manufacturer

8. Exposure controls/Personal protection

8.1 Exposure limit values:

TLV-TWA	:	**mg/m^3**	-	**ppm**
TLV-STEL	:	**mg/m^3**	-	**ppm**
TLV-Ceiling	:	**mg/m^3**		**ppm**
OES-LTEL	:	**mg/m^3**		**ppm**
OES-STEL	:	**mg/m^3**		**ppm**
MAK	:	**mg/m^3**		**ppm**
TRK	:	**mg/m^3**		**ppm**
MAC-TGG 8 h	:	**mg/m^3**		
MAC-TGG 15 min.	:	**mg/m^3**		
MAC-Ceiling	:	**mg/m^3**		
VME-8 h	:	**mg/m^3**		**ppm**
VLE-15 min.	:	**mg/m^3**		**ppm**
GWBB-8 h	:	**mg/m^3**		**ppm**
GWK-15 min.	:	**mg/m^3**		**ppm**
Momentary value	:	**mg/m^3**		**ppm**
EC	:	**mg/m^3**		**ppm**
EC-STEL	:	**mg/m^3**		**ppm**

Sampling methods:

- Benz(a)Anthracene (Polynuclear aromatic hydrocarbons) NIOSH 5506
- Benz(a)Anthracene (Polynuclear aromatic hydrocarbons) NIOSH 5515
- Benz(a)Anthracene OSHA CSI

8.2 Exposure controls:

8.2.1 Occupational exposure controls:
- Measure the concentration in the air regularly
- Work under local exhaust/ventilation

8.2.2 Environmental exposure controls: see heading 13

8.3 Personal protection:

8.3.1 respiratory protection:
- Dust production: dust mask with filter type P3
- High dust production: compressed air/oxygen apparatus

8.3.2 hand protection:
- Gloves
  Suitable materials: No data available
- Breakthrough time: N.D.

8.3.3 eye protection:
- Safety glasses
- In case of dust production: protective goggles

8.3.4 skin protection:
- Protective clothing
- In case of dust production: head/neck protection
  Suitable materials: No data available

9. Physical and chemical properties

9.1 General information:

Appearance (at 20°C)	: Crystalline solid / Scales	
Odour	: Odourless	
Colour	: Colourless to fluorescent yellow-green	

9.2 Important health, safety and environmental information:

pH value	: N.D.	
Boiling point/boiling range	: N.A.	**°C**
Flashpoint	: N.D.	**°C**
Explosion limits	: N.D.	**vol% (°C)**
Vapour pressure (at 20°C)	: 0.00007	**hPa**
Vapour pressure (at 50°C)	: N.D.	**hPa**
Relative density (at 20°C)	: 1.3	
Water solubility	: 0.00001	**g/100 ml**
Soluble in	: Ether, acetone, oils/fats	
Relative vapour density	: N.D.	
Viscosity	: N.D.	**Pa.s**
Partition coëfficient n-octanol/water	: 5.61/5.79	
Evaporation rate		
ratio to butyl acetate	: N.D.	
ratio to ether	: N.D.	

9.3 Other information:

Melting point/melting range	: 160	**°C**
Auto-ignition point	: N.D.	**°C**
Saturation concentration	: N.D.	**g/m^3**

10. Stability and reactivity

10.1 Conditions to avoid/reactivity:
- Stable under normal conditions

10.2 Materials to avoid:
- Keep away from: heat sources, ignition sources, oxidizing agents, acids

10.3 Hazardous decomposition products:
- Upon combustion CO and CO2 are formed
- Reacts violently with (strong) oxidizers
- Decomposes on exposure to (strong) acids

11. Toxicological information

11.1 Acute toxicity:

LD50 oral rat	: N.D.	**mg/kg**
LD50 dermal rat	: N.D.	**mg/kg**
LD50 dermal rabbit	: N.D.	**mg/kg**
LC50 inhalation rat	: N.D.	**mg/l/4 h**
LC50 inhalation rat	: N.D.	**ppm/4 h**

11.2 Chronic toxicity:

EC carc. cat.	:	2
EC muta. cat.	:	not listed
EC repr. cat.	:	not listed
Carcinogenicity (TLV)	:	A2
Carcinogenicity (MAC)	:	K
Carcinogenicity (VME)	:	not listed
Carcinogenicity (GWBB)	:	not listed
Carcinogenicity (MAK)	:	2
Mutagenicity (MAK)	:	not listed
Teratogenicity (MAK)	:	-
IARC classification	:	2A

11.3 Routes of exposure: ingestion, inhalation, eyes and skin
Caution! Substance is absorbed through the skin

11.4 Acute effects/symptoms:

AFTER SKIN CONTACT
- Slight irritation

11.5 Chronic effects:

- Probably human carcinogenic
- Mutagenicity: AMES test positive
- Probably human mutagenic

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:
- No specific information available

SIMILAR PRODUCTS CAUSE FOLLOWING SYMPTOMS:
- Feeling of weakness
- Photoallergy
- Skin rash/inflammation
- Cracking of the skin
- Skin cancer
- Lung tissue affection/degeneration
- Enlargement/affection of the liver
- Affection of the renal tissue

12. Ecological information

12.1 Ecotoxicity:

- LC50 (65 h) : 0.0018 mg/l (PIMEPHALES PROMELAS)
- EC50 (96 h) : 0.01 mg/l (DAPHNIA PULEX)

12.2 Mobility:

- **Volatile organic compounds (VOC):** 0%

- Photolysis in water
- Ozonation in water
- Insoluble in water

For other physicochemical properties see heading 9.

12.3 Persistence and degradability:

- biodegradation BOD_5	:		N.D.	**% ThOD**
- water	:	-	Not readily biodegradable in water	
- soil	:	**T ½:**	> 100	**days**

12.4 Bioaccumulative potential:
- **log P_{ow}** : 5.61/5.79
- **BCF** : 72 h : 350 (LEUCISCUS IDUS)
- Highly bioaccumulative

12.5 Other adverse effects:

- **WGK** : 3 (Classification based on the R-phrases in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)
- **Effect on the ozone layer** : Not dangerous for the ozone layer (Council Regulation (EC) 3093/94)
- **Greenhouse effect** : no data available
- **Effect on waste water purification** : no data available

13. Disposal considerations

13.1 Provisions relating to waste:

- Waste material code (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 16 05 06 (laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals)
- Waste material code (Flanders): 001, 045, 691
- Waste code (Germany): 59302
- Hazardous waste (91/689/EEC)

13.2 Disposal methods:

- Dissolve or mix with a combustible solvent
- Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber
- Do not discharge into surface water (2000/60/EEC, Council Decision 2455/2001/EC)

13.3 Packaging/Container:

- Waste material code packaging (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10 (packaging containing residues of or contaminated by dangerous substances)

14. Transport information

90
3077

14.1 Classification of the substance in compliance with UN Recommendations

UN number	: 3077
CLASS	: 9
SUB RISKS	: -
PACKING	: III
PROPER SHIPPING NAME	: UN 3077, Environmentally hazardous substance, solid, n.o.s. (benzo[a]anthracene)

14.2 ADR (transport by road)

CLASS	: 9
PACKING	: III
DANGER LABEL TANKS	: 9
DANGER LABEL PACKAGES	: 9

14.3 RID (transport by rail)

CLASS	: 9
PACKING	: III
DANGER LABEL TANKS	: 9
DANGER LABEL PACKAGES	: 9

14.4 ADNR (transport by inland waterways)

CLASS	: 9
PACKING	: III
DANGER LABEL TANKS	: 9
DANGER LABEL PACKAGES	: 9

14.5 IMDG (maritime transport)

CLASS	: 9
SUB RISKS	: -
PACKING	: III
MFAG	: -
EMS	: -
MARINE POLLUTANT	: P

14.6 ICAO (air transport)

CLASS	: 9
SUB RISKS	: -
PACKING	: III
PACKING INSTRUCTIONS PASSENGER AIRCRAFT	:
PACKING INSTRUCTIONS CARGO AIRCRAFT	:

14.7 Special precautions in connection with transport : none

14.8 Limited quantities (LQ) :

When substances and their packaging meet the conditions established by ADR/RID/ADNR in chapter 3.4, **only** the following prescriptions shall be complied with:
each package shall display a diamond-shaped figure with the following inscription:
- 'UN 3077'
or, in the case of different goods with different identification numbers within a single package:
- the letters 'LQ'

15. Regulatory information

Enumerated in substance list Annex I of directive 67/548/EEC et sequens

Toxic

Dangerous for the environment

R45 : May cause cancer
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S53 : Avoid exposure - obtain special instructions before use
S45 : In case of accident or if you feel unwell, seek medical advice (show the label where possible)
S60 : This material and/or its container must be disposed of as hazardous waste
S61 : Avoid release to the environment. Refer to special instructions/safety data sheets.

16. Other information

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE
N.D. = NOT DETERMINED
***** = INTERNAL CLASSIFICATION

Full text of any R-phrases referred to under heading 2:

R45 : May cause cancer
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Exposure limits:

TLV : Threshold Limit Value - ACGIH USA 2000
OES : Occupational Exposure Standards - United Kingdom 1999
MEL : Maximum Exposure Limits - United Kingdom 1999
MAK : Maximale Arbeitsplatzkonzentrationen - Germany 2001
TRK : Technische Richtkonzentrationen - Germany 2001
MAC : Maximale aanvaarde concentratie - The Netherlands 2002
VME : Valeurs limites de Moyenne d'Exposition - France 1999
VLE : Valeurs limites d'Exposition à court terme - France 1999
GWBB : Grenswaarde beroepsmatige blootstelling - Belgium 1998
GWK : Grenswaarde kortstondige blootstelling - Belgium 1998
EC : Indicative occupational exposure limit values - directive 2000/39/EC

Chronic toxicity:

K : List of the carcinogenic substances and processes - The Netherlands 2002

Material Safety Data Sheet

Benzo[a]pyrene, 98%

ACC# 37175

Section 1 - Chemical Product and Company Identification

MSDS Name: Benzo[a]pyrene, 98%
Catalog Numbers: AC105600000, AC105600010, AC105601000, AC377200000, AC377200010, AC377201000 AC377201000
Synonyms: 3,4-Benzopyrene; 3,4-Benzpyrene; Benzo[def]chrysene.
Company Identification:

Acros Organics N.V.
One Reagent Lane
Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01
For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
50-32-8	Benzo[a]pyrene	>96	200-028-5

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: yellow to brown powder.
Danger! May cause harm to the unborn child. May impair fertility. May cause eye, skin, and respiratory tract irritation. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Cancer hazard. May cause allergic skin reaction. May cause heritable genetic damage.
Target Organs: Reproductive system, skin.

Potential Health Effects

Eye: May cause eye irritation.
Skin: May cause skin irritation. May be harmful if absorbed through the skin. May cause an allergic reaction in certain individuals.
Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated. May be harmful if swallowed.
Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. May be harmful if inhaled.
Chronic: May cause cancer in humans. May cause reproductive and fetal effects. Laboratory experiments have resulted in mutagenic effects.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.
Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.
Flash Point: Not available.
Autoignition Temperature: Not available.
Explosion Limits, Lower: Not available.
Upper: Not available.
NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.
Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs

Benzo[a]pyrene	0.2 mg/m3 TWA (as benzene soluble aerosol) (listed under Coal tar pitches).	0.1 mg/m3 TWA (cyclohexane-extractable fraction) (listed under Coal tar pitches).80 mg/m3 IDLH (listed under Coal tar pitches).	0.2 mg/m3 TWA (as benzene soluble fraction) (listed under Coal tar pitches).

OSHA Vacated PELs: Benzo[a]pyrene: No OSHA Vacated PELs are listed for this chemical.
Personal Protective Equipment
Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Powder
Appearance: yellow to brown
Odor: faint aromatic odor
pH: Not available.
Vapor Pressure: Not available.
Vapor Density: Not available.
Evaporation Rate: Not available.
Viscosity: Not available.
Boiling Point: 495 deg C @ 760 mm Hg
Freezing/Melting Point:175 - 179 deg C
Decomposition Temperature: Not available.
Solubility: 1.60x10-3 mg/l @25°C
Specific Gravity/Density: Not available.
Molecular Formula:C20H12
Molecular Weight:252.31

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Dust generation.
Incompatibilities with Other Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.
Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:
CAS# 50-32-8: DJ3675000
LD50/LC50:

Not available.

Carcinogenicity:
CAS# 50-32-8:

- **ACGIH:** A2 - Suspected Human Carcinogen
- **California:** carcinogen, initial date 7/1/87
- **NTP:** Suspect carcinogen
- **IARC:** Group 1 carcinogen (listed as Coal tar pitches).

Epidemiology: No information found
Teratogenicity: No information found
Reproductive Effects: Adverse reproductive effects have occurred in experimental animals.
Mutagenicity: Mutagenic effects have occurred in humans.Mutagenic effects have occurred in experimental animals.
Neurotoxicity: No information found
Other Studies:

Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series:
CAS# 50-32-8: waste number U022.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	NOT REGULATED FOR DOMESTIC TRANSPORT	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOL (Benzo{a} pyrene)
Hazard Class:		9
UN Number:		UN3077
Packing Group:		III

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 50-32-8 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

CAS# 50-32-8: 1 lb final RQ; 0.454 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 50-32-8: immediate, delayed.

Section 313

This material contains Benzo[a]pyrene (CAS# 50-32-8, >96%),which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR

Clean Air Act:

This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.
CAS# 50-32-8 is listed as a Priority Pollutant under the Clean Water Act.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 50-32-8 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Prop 65

The following statement(s) is(are) made in order to comply with the California Safe Drinking Water Act:

WARNING: This product contains Benzo[a]pyrene, a chemical known to the state of California to cause cancer.

California No Significant Risk Level: CAS# 50-32-8: 0.06 æg/day NSRL

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

T N

Risk Phrases:

R 43 May cause sensitization by skin contact.
R 45 May cause cancer.
R 46 May cause heritable genetic damage.
R 60 May impair fertility.
R 61 May cause harm to the unborn child.
R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 53 Avoid exposure - obtain special instructions before use.
S 60 This material and its container must be disposed of as hazardou
s waste.
S 61 Avoid release to the environment. Refer to special instructions
/safety data sheets.

WGK (Water Danger/Protection)
CAS# 50-32-8: No information available.
Canada - DSL/NDSL
CAS# 50-32-8 is listed on Canada's DSL List.
Canada - WHMIS
This product has a WHMIS classification of D2A.
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.
Canadian Ingredient Disclosure List
CAS# 50-32-8 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 9/02/1997
Revision #7 Date: 6/30/2006

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

SAFETY DATA SHEET

Revision Date 10-Feb-2015 **Revision Number** 1

1. Identification

Product Name **Benzo[ghi]perylene**

Cat No. : **AC105550000; AC105550050; AC105550250; AC105551000**

Synonyms 1,12-Benzoperylene

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements
None required

Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Benzo(ghi)perylene	191-24-2	> 98

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

Inhalation Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.

Ingestion Clean mouth with water. Get medical attention.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO_2)
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
0	0	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let this chemical enter the environment.

7. Handling and storage

Handling Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Yellow
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	276 - 280 °C / 528.8 - 536 °F
Boiling Point/Range	No information available > @ 760 mmHg
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C22 H12
Molecular Weight	276.33

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable.
Conditions to Avoid	Excess heat. Exposure to light. Incompatible products.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO_2)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information	No acute toxicity information is available for this product
Component Information	
Toxicologically Synergistic	No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Benzo(ghi)perylene	191-24-2	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available
Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity
Do not empty into drains.

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility .

Component	log Pow
Benzo(ghi)perylene	7.23

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT Not regulated
TDG Not regulated
IATA Not regulated
IMDG/IMO Not regulated

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL

Benzo(ghi)perylene	-	-	-	205-883-8	-		-	-	-	-	-

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Benzo(ghi)perylene	191-24-2	> 98	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Benzo(ghi)perylene	-	-	X	X

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Benzo(ghi)perylene	5000 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Benzo(ghi)perylene	X	X	X	X	-

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class Non-controlled

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Revision Date 10-Feb-2015
Print Date 10-Feb-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Version 4.6
Revision Date 12/29/2015
Print Date 01/29/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Beryllium
Product Number	:	378135
Brand	:	Aldrich
CAS-No.	:	7440-41-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 2), H330
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Skin sensitisation (Category 1), H317
Carcinogenicity (Category 1B), H350
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Specific target organ toxicity - repeated exposure (Category 1), H372

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H301	Toxic if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.

H372	Causes damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Be
Molecular weight	:	9.01 g/mol
CAS-No.	:	7440-41-7
EC-No.	:	231-150-7

Hazardous components

Component	Classification	Concentration
Berylium foil		
	Acute Tox. 3; Acute Tox. 2; Skin Irrit. 2; Eye Irrit. 2A; Skin Sens. 1; Carc. 1B; STOT SE 3; STOT RE 1; H301, H315, H317, H319, H330, H335, H350, H372	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Beryllium oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Berylium foil	7440-41-7	TWA	2.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		CEIL	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Peak	25.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		TWA	2.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
	Remarks	Z27.29-1970		
		CEIL	5.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		TWA	0.000050 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Beryllium sensitization Chronic beryllium disease (berylliosis) Confirmed human carcinogen Danger of cutaneous absorption Sensitizer		
		C	0.000500 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		See Table Z-2		
		TWA	2.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		TWA	2.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		CEIL	5.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		CEIL	5.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		TWA	0.000050 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Beryllium sensitization		

		Chronic beryllium disease (berylliosis) Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Confirmed human carcinogen Danger of cutaneous absorption Sensitizer		
		C	0.000500 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		See Table Z-2		
		TWA	2microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		CEIL	5microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		C	0.0005 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: grey
b)	Odour	odourless
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 1,278 °C (2,332 °F) - lit.
f)	Initial boiling point and boiling range	2,970 °C (5,378 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	1.85 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Alkali metals

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

LD50 Intravenous - Rat - 0.496 mg/kg
Remarks: Liver:Hepatitis (hepatocellular necrosis), zonal.

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
Hamster
Lungs
Result: negative

Carcinogenicity

Carcinogenicity - Rat - Intratracheal
Tumorigenic:Neoplastic by RTECS criteria. Lungs, Thorax, or Respiration:Tumors. Lungs, Thorax, or Respiration:Bronchiogenic carcinoma.

Carcinogenicity - Rabbit - Intravenous
Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Musculoskeletal:Tumors.

Possible human carcinogen

IARC:	1 - Group 1: Carcinogenic to humans (Berylium foil)
NTP:	Known to be human carcinogen (Berylium foil)
	Known to be human carcinogenThe reference note has been added by TD based on the background information of the NTP. (Berylium foil)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: DS1750000

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1567 Class: 6.1 (4.1) Packing group: II
Proper shipping name: Beryllium, powder
Reportable Quantity (RQ): 10 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1567 Class: 6.1 (4.1) Packing group: II EMS-No: F-G, S-G
Proper shipping name: BERYLLIUM POWDER

IATA
UN number: 1567 Class: 6.1 (4.1) Packing group: II
Proper shipping name: Beryllium powder

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Berylium foil	7440-41-7	2008-10-10

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H301	Toxic if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation

HMIS Rating

Health hazard:	4
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	4
Fire Hazard:	3
Reactivity Hazard:	3

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

SAFETY DATA SHEET
SKQ1 (bromide)

Revision: 05/31/2017

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Code: 19891

Product Name: SKQ1 (bromide)

Synonyms: [10-(4,5-dimethyl-3,6-dioxo-1,4-cyclohexadien-1-yl)decyl]triphenyl-phosphonium, monobromide;

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses: For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name: Cayman Chemical Company
1180 E. Ellsworth Rd.
Ann Arbor, MI 48108

Web site address: www.caymanchem.com

Information: Cayman Chemical Company +1 (734)971-3335

1.4 Emergency telephone number:

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300
CHEMTREC Outside USA and Canada: +1 (703)527-3887

Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture:

Flammable Liquids, Category 2

2.2 Label Elements:

GHS Signal Word: **Danger**

GHS Hazard Phrases:

H225: Highly flammable liquid and vapor.

GHS Precaution Phrases:

P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

GHS Response Phrases:

P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Effects and Symptoms: Material may be irritating to the mucous membranes and upper respiratory tract.
May be harmful by inhalation, ingestion, or skin absorption.
May cause eye, skin, or respiratory system irritation.
To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
934826-68-3 NA	SKQ1 (bromide)	5.0 %	NA NA	No data available.
64-17-5 KQ6300000	Ethyl alcohol	95.0 %	200-578-6 603-002-00-5	Flam. Liq. 2: H225

Multi-region format

Section 4. First Aid Measures

4.1 Description of First Aid Measures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.

In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

4.2 Important Symptoms and Effects, Both Acute and Delayed: May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media: A solid water stream may be inefficient.

5.2 Flammable Properties and Hazards: Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.
Container explosion may occur under fire conditions.
Emits toxic fumes under fire conditions.
Sensitive to static discharge.
Vapors can travel to a source of ignition and flash back.
No data available.

Flash Pt: 14.00 C Method Used: Closed Cup

Explosive Limits: LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C

Autoignition Pt: 363.00 C

5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
Note: Flammable as diluted in ethanol.

Section 6. Accidental Release Measures

6.1 Protective Precautions, Protective Equipment and Emergency Procedures: Avoid breathing vapors and provide adequate ventilation.
As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2 Environmental Precautions: Take steps to avoid release into the environment, if safe to do so.

6.3 Methods and Material For Containment and Cleaning Up: Contain spill and collect, as appropriate.
Transfer to a chemical waste container for disposal in accordance with local regulations.

Section 7. Handling and Storage

7.1 Precautions To Be Taken in Handling: Avoid breathing dust/fume/gas/mist/vapours/spray.
Avoid prolonged or repeated exposure.
Keep away from sources of ignition.
Take precautionary measures against static discharge.

7.2 Precautions To Be Taken in Storing: Keep away from heat, sparks, and flame.
Keep container tightly closed.
Store in accordance with information listed on the product insert.

Other Precautions: Hygroscopic.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
64-17-5	Ethyl alcohol	ACGIH TLV	TLV: 1000 ppm	
		France VL	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm)	
		OSHA PELs	PEL: 1000 ppm	
		Britain EH40	TWA: 1920 mg/m3 (1000 ppm) STEL: ()	

8.2 Exposure Controls:

8.2.1 Engineering Controls (Ventilation etc.): Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

8.2.2 Personal protection equipment:

Eye Protection: Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

Respiratory Equipment (Specify Type): NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices: Do not take internally.
Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.
Wash thoroughly after handling.
No data available.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: [ ] Gas [X] Liquid [ ] Solid

Appearance and Odor: A solution in ethanol

pH: No data.

Melting Point: No data.

Boiling Point: No data.

Flash Pt: 14.00 C Method Used: Closed Cup

Evaporation Rate: No data.

Flammability (solid, gas): No data available.

Explosive Limits: LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C

Vapor Pressure (vs. Air or mm Hg): 43 MM_HG at 20.0 C

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): No data.
Solubility in Water: No data.
Octanol/Water Partition Coefficient: No data.
Autoignition Pt: 363.00 C
Decomposition Temperature: No data.
Viscosity: No data.

9.2 Other Information

Percent Volatile: No data.
Molecular Formula & Weight: C36H42O2P • Br 617.6

Section 10. Stability and Reactivity

10.1 Reactivity: No data available.
10.2 Stability: Unstable [ ] Stable [X]
10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.
Polymerization: Will occur [ ] Will not occur [X]
10.4 Conditions To Avoid: heat, flames and sparks
10.5 Incompatibility - Materials To Avoid: alkali metals
ammonia
peroxides
strong oxidizing agents
10.6 Hazardous Decomposition or Byproducts: carbon dioxide
carbon monoxide

Section 11. Toxicological Information

11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied.
Ethanol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LD50 (rat): 7,060 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD50 (rabbit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,800 ppm (30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m3 (6h); Inhalation LCLO (mouse): 29,300 ppm (7h);
Ethanol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate;

Chronic Toxicological Effects: Ethanol - Investigated as a mutagen, reproductive effector, and tumorigen.
Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.
Ethanol RTECS Number: KQ6300000

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
934826-68-3	SKQ1 (bromide)	n.a.	n.a.	n.a.	n.a.
64-17-5	Ethyl alcohol	n.a.	1	A4	n.a.

Section 12. Ecological Information

12.1 Toxicity: Avoid release into the environment.
Runoff from fire control or dilution water may cause pollution.

12.2 Persistence and Degradability: No data available.

12.3 Bioaccumulative Potential: No data available.

12.4 Mobility in Soil: No data available.

12.5 Results of PBT and vPvB assessment: No data available.

12.6 Other adverse effects: No data available.

Section 13. Disposal Considerations

13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Ethyl Alcohol Solution
DOT Hazard Class: 3 FLAMMABLE LIQUID
UN/NA Number: 1170 **Packing Group:** II

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Ethyl Alcohol Solution
UN Number: 1170 **Packing Group:** II
Hazard Class: 3 - FLAMMABLE LIQUID

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Ethyl Alcohol Solution
UN Number: 1170 **Packing Group:** II
Hazard Class: 3 - FLAMMABLE LIQUID **IATA Classification:** 3

Additional Transport Information: Transport in accordance with local, state, and federal regulations.
When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.

Section 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
934826-68-3	SKQ1 (bromide)	No	No	No
64-17-5	Ethyl alcohol	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
934826-68-3	SKQ1 (bromide)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
64-17-5	Ethyl alcohol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -

		Inventory; CA PROP.65: No

Regulatory Information Statement: This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.

Section 16. Other Information

Revision Date: 05/31/2017

Additional Information About This Product: No data available.

Company Policy or Disclaimer: DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

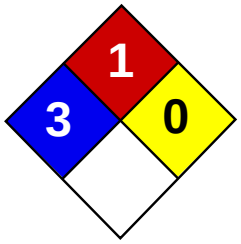

Health	3
Fire	1
Reactivity	0
Personal Protection	E

Material Safety Data Sheet
Cadmium MSDS

Section 1: Chemical Product and Company Identification

Product Name: Cadmium

Catalog Codes: SLC3484, SLC5272, SLC2482

CAS#: 7440-43-9

RTECS: EU9800000

TSCA: TSCA 8(b) inventory: Cadmium

CI#: Not applicable.

Synonym:

Chemical Name: Cadmium

Chemical Formula: Cd

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Cadmium	7440-43-9	100

Toxicological Data on Ingredients: Cadmium: ORAL (LD50): Acute: 2330 mg/kg [Rat.]. 890 mg/kg [Mouse]. DUST (LC50): Acute: 50 ppm 4 hour(s) [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects:
Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, sensitizer), of eye contact (irritant). Severe over-exposure can result in death.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Classified A2 (Suspected for human.) by ACGIH, 2 (Reasonably anticipated.) by NTP. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to kidneys, lungs, liver. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4: First Aid Measures

Eye Contact: No known effect on eye contact, rinse with water for a few minutes.

Skin Contact:
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact: Not available.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion:
Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: 570°C (1058°F)

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: Some metallic oxides.

Fire Hazards in Presence of Various Substances:
Non-flammable in presence of open flames and sparks, of heat, of oxidizing materials, of reducing materials, of combustible materials, of moisture.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards:
Material in powder form, capable of creating a dust explosion. When heated to decomposition it emits toxic fumes.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep locked up Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage:
Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 0.01 (ppm) Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Lustrous solid.)

Odor: Not available.

Taste: Not available.

Molecular Weight: 112.4 g/mole

Color: Silvery.

pH (1% soln/water): Not applicable.

Boiling Point: 765°C (1409°F)

Melting Point: 320.9°C (609.6°F)

Critical Temperature: Not available.

Specific Gravity: 8.64 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Insoluble in cold water, hot water, methanol, diethyl ether, n-octanol.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Reactive with oxidizing agents.

Corrosivity: Not considered to be corrosive for metals and glass.

Special Remarks on Reactivity: Reacts violently with potassium.

Special Remarks on Corrosivity: Not available.

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 890 mg/kg [Mouse]. Acute toxicity of the dust (LC50): 229.9 mg/m3 4 hour(s) [Rat].

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: Classified A2 (Suspected for human.) by ACGIH, 2 (Reasonably anticipated.) by NTP. The substance is toxic to kidneys, lungs, liver.

Other Toxic Effects on Humans:
Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, sensitizer).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: An allergen. 0047 Animal: embryotoxic, passes through the placental barrier.

Special Remarks on other Toxic Effects on Humans: May cause allergic reactions, exzema and/or dehydration of the skin.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are as toxic as the original product.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification:

Identification:

Special Provisions for Transport:

Section 15: Other Regulatory Information

Federal and State Regulations:
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Cadmium California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Cadmium Pennsylvania RTK: Cadmium Massachusetts RTK: Cadmium TSCA 8(b) inventory: Cadmium SARA 313 toxic chemical notification and release reporting: Cadmium CERCLA: Hazardous substances.: Cadmium

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada):
CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC):
R26- Very toxic by inhalation. R45- May cause cancer.

HMIS (U.S.A.):

Health Hazard: 3

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 3

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

Section 16: Other Information

References:
-Hawley, G.G.. The Condensed Chemical Dictionary, 11e ed., New York N.Y., Van Nostrand Reinold, 1987. -Liste des produits purs tératogènes, mutagènes, cancérogènes. Répertoire toxicologique de la Commission de la Santé et de la Sécurité du Travail du Québec. -Material safety data sheet emitted by: la Commission de la Santé et de la Sécurité du Travail du Québec. -SAX, N.I. Dangerous Properties of Indutrial Materials. Toronto, Van Nostrand Reinold, 6e ed. 1984. -The Sigma-Aldrich Library of Chemical Safety Data, Edition II. -Guide de la loi et du règlement sur le transport des marchandises dangeureuses au canada. Centre de conformité internatinal Ltée. 1986.

Other Special Considerations: Not available.

Created: 10/09/2005 04:29 PM

Last Updated: 11/01/2010 12:00 PM

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ScienceLab.com has been advised of the possibility of such damages.

Fisher Scientific

Material Safety Data Sheet

Calcium

MSDS# 03840

Section 1 - Chemical Product and Company Identification

MSDS Name:	Calcium
Catalog Numbers:	AC201180000, AC201180050, AC201181000, AC201185000, AC201380000, AC201381000 AC201381000, AC201385000, AC318100000, AC318100050, AC365740000, AC365741000 AC365741000, AC365745000
Synonyms:	Calcium metal, turnings, crystals, granular; Calcicat.
Company Identification:	Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410
For information in the US, call:	201-796-7100
Emergency Number US:	201-796-7100
CHEMTREC Phone Number, US:	800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#:	7440-70-2
Chemical Name:	Calcium
%:	99+
EINECS#:	231-179-5

Hazard Symbols: F

Risk Phrases: 15

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Danger! Flammable solid. Causes burns by all exposure routes. Contact with water liberates extremely flammable gases.
Target Organs: Respiratory system, gastrointestinal system, eyes, skin.

Potential Health Effects

Eye:	Causes eye burns.
Skin:	Causes skin burns. May be harmful if absorbed through the skin.
Ingestion:	Causes gastrointestinal tract burns. May be harmful if swallowed.
Inhalation:	Causes chemical burns to the respiratory tract. May be harmful if inhaled.
Chronic:	No information found.

Section 4 - First Aid Measures

Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin:	Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion:	Do not induce vomiting. Get medical aid immediately. Call a poison control center.
	Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance;

Inhalation: induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to Physician:

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire. Water reactive. Material will react with water and may release a flammable and/or toxic gas. Flammable solid.

Extinguishing Media: Use foam, dry chemical, or carbon dioxide. DO NOT USE WATER!

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

NFPA Rating: ; Special Hazard: -W-

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Avoid generating dusty conditions. Remove all sources of ignition. Use a spark-proof tool. Do not expose spill to water. Place under an inert atmosphere. Do not get water inside containers. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Do not allow water to get into the container because of violent reaction. Minimize dust generation and accumulation. Use spark-proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Keep away from heat, sparks and flame. Do not ingest or inhale. Handle under an inert atmosphere. Do not allow contact with water. Use only in a chemical fume hood.

Storage: Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Water free area. Store protected from moisture. Store under an inert atmosphere.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Calcium	none listed	none listed	none listed

OSHA Vacated PELs: Calcium: None listed

Engineering Controls:

Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State:	Solid
Color:	grey
Odor:	none reported
pH:	14 (4g/L aq.sol.)
Vapor Pressure:	13 mbar @ 983 deg C
Vapor Density:	Not available
Evaporation Rate:	Not available
Viscosity:	Not available
Boiling Point:	1484 deg C @ 760 mmHg (2,703.20°F)
Freezing/Melting Point:	845 deg C (1,553.00°F)
Decomposition Temperature:	Not available
Solubility in water:	Reacts
Specific Gravity/Density:	Not available.
Molecular Formula:	Ca
Molecular Weight:	40.07

Section 10 - Stability and Reactivity

Chemical Stability:	Reacts with water. Water contact produces hydrogen gas.
Conditions to Avoid:	Incompatible materials, ignition sources, dust generation, excess heat, exposure to moist air or water.
Incompatibilities with Other Materials	Strong oxidizing agents, acids, alcohols, ammonia, halogens, sulfur, oxygen, phosphorus oxide, mercury, alkali hydroxides, metal oxides, alkali halides, nitrogen oxide.
Hazardous Decomposition Products	Hydrogen gas.
Hazardous Polymerization	Has not been reported.

Section 11 - Toxicological Information

RTECS#:	CAS# 7440-70-2: EV8500000
LD50/LC50:	RTECS: Not available.
Carcinogenicity:	Calcium - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other:	See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Other: Do not empty into drains.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT
Shipping Name: CALCIUM
Hazard Class: 4.3
UN Number: UN1401
Packing Group: II
Canada TDG
Shipping Name: CALCIUM
Hazard Class: 4.3
UN Number: UN1401
Packing Group: II

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: F

Risk Phrases:

R 15 Contact with water liberates extremely flammable gases.

Safety Phrases:

S 8 Keep container dry.

S 24/25 Avoid contact with skin and eyes.

S 43C In case of fire, use limestone powder, sodium chloride or dry sand (never use water).

WGK (Water Danger/Protection)

CAS# 7440-70-2: 1

Canada

CAS# 7440-70-2 is listed on Canada's DSL List

Canadian WHMIS Classifications: E, B6

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 7440-70-2 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 7440-70-2 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 5/19/1999

Revision #7 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

SAFETY DATA SHEET

Version 5.6
Revision Date 12/10/2015
Print Date 02/09/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Carbon disulfide
Product Number	:	180173
Brand	:	Sigma-Aldrich
Index-No.	:	006-003-00-3
CAS-No.	:	75-15-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Acute toxicity, Inhalation (Category 4), H332
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Reproductive toxicity (Category 2), H361
Specific target organ toxicity - repeated exposure, Inhalation (Category 1), H372
Acute aquatic toxicity (Category 2), H401

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.

H401	Toxic to aquatic life.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	CS_2
Molecular weight	:	76.14 g/mol
CAS-No.	:	75-15-0
EC-No.	:	200-843-6
Index-No.	:	006-003-00-3

Hazardous components

Component	Classification	Concentration
Carbon disulphide		
	Flam. Liq. 2; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; Repr. 2; STOT RE 1; Aquatic Acute 2; H225, H315, H319, H332, H361, H372, H401	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Sulphur oxides
Flash back possible over considerable distance., Container explosion may occur under fire conditions., Vapours may form explosive mixture with air., May explode when heated.

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Refrigerate before opening.
Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Carbon disulphide	75-15-0	TWA	1 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Peripheral Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen Danger of cutaneous absorption		
		TWA	1.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Peripheral Nervous System impairment Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen Danger of cutaneous absorption		
		TWA	20.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.3-1968		
		CEIL	30.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.3-1968		
		Peak	100.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.3-1968		
		TWA	1.000000 ppm 3.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		
		ST	10.000000 ppm 30.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		
		See Table Z-2		
		TWA	20 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.3-1968		
		CEIL	30 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.3-1968		

		Peak	100 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.3-1968		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Carbon disulphide	75-15-0	2-Thiothiazolidine-4-carboxylix acid (TTCA)	0.5000 mg/g	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: colourless
b)	Odour	Stench.
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -112 °C (-170 °F) - lit.
f)	Initial boiling point and boiling range	46 °C (115 °F) - lit.
g)	Flash point	-30 °C (-22 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 50 %(V) Lower explosion limit: 1.3 %(V)
k)	Vapour pressure	394.956 hPa (296.241 mmHg) at 20 °C (68 °F) 1,342.711 hPa (1,007.116 mmHg) at 55 °C (131 °F)
l)	Vapour density	2.63 - (Air = 1.0)
m)	Relative density	1.266 g/mL at 25 °C (77 °F)
n)	Water solubility	2.9 g/l at 20 °C (68 °F) - OECD Test Guideline 105
o)	Partition coefficient: n-octanol/water	log Pow: 2.7 at 25 °C (77 °F)
p)	Auto-ignition temperature	97 - 107 °C (207 - 225 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Surface tension	71.9 mN/m at 19.5 °C (67.1 °F)
Relative vapour density	2.63 - (Air = 1.0)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Alkali metals, Zinc, Amines, Azides, Oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - female - > 2,000 mg/kg
(OECD Test Guideline 423)

LC50 Inhalation - Rat - male and female - 4 h - 10.35 mg/l
(OECD Test Guideline 403)

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
- Mouse
Result: Does not cause skin sensitisation.
(OECD Test Guideline 429)

Germ cell mutagenicity
Laboratory experiments have shown mutagenic effects.

Ames test
Salmonella typhimurium
Result: negative

Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
Suspected human reproductive toxicant

May cause reproductive disorders.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: FF6650000

May cause convulsions.

Liver - Irregularities - Based on Human Evidence
Liver - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Poecilia reticulata (guppy) - 4 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - 2.1 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	Growth inhibition EC50 - Chlorella pyrenoidosa - 21 mg/l - 96 h (OECD Test Guideline 201)

12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 28 d Result: > 80 % - Readily biodegradable (OECD Test Guideline 301D)

12.3 Bioaccumulative potential

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 1131 Class: 3 (6.1) Packing group: I
Proper shipping name: Carbon disulfide
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG

UN number: 1131 Class: 3 (6.1) Packing group: I EMS-No: F-E, S-D
Proper shipping name: CARBON DISULPHIDE

IATA

UN number: 1131 Class: 3 (6.1)
Proper shipping name: Carbon disulphide
IATA Passenger: Not permitted for transport
IATA Cargo: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components

The following components are subject to reporting levels established by SARA Title III, Section 302:

	CAS-No.	Revision Date
Carbon disulphide	75-15-0	2007-07-01

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Carbon disulphide	75-15-0	2007-07-01

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Carbon disulphide	75-15-0	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Carbon disulphide	75-15-0	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Carbon disulphide	75-15-0	2007-07-01

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Carbon disulphide	75-15-0	2008-06-17

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
H401	Toxic to aquatic life.
Repr.	Reproductive toxicity

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.6 Revision Date: 12/10/2015 Print Date: 02/09/2016

Safety Data Sheet

Revision Date: 05/11/15
www.restek.com

1. IDENTIFICATION

Catalog Number / Product Name:	**32207, 32207-5XX, & 32307 / alpha-Chlordane Standard**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	1-800-424-9300 (CHEMTREC) +1 703-741-5970 (Outside the US)
Email:	sds@restek.com
Revision Number:	6
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:

GHS Classification:

Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1
Flammable Liquid Category 2
Acute Toxicity - Inhalation Dust / Mist Category 3
Acute Toxicity - Inhalation Vapour Category 3
Acute Toxicity - Inhalation Gas Category 3
Acute Toxicity - Dermal Category 3
Acute Toxicity - Oral Category 3

GHS Signal Word: Danger

GHS Hazard:

Highly flammable liquid and vapour.
Toxic if swallowed, in contact with skin or if inhaled.
Toxic if inhaled.
Causes damage to organs.

GHS Precautions:

Safety Precautions:

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilation and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Do no eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures:

IF SWALLOWED: Immediately call a POISON CENTER/doctor/....
IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF exposed: Call a POISON CENTER or doctor/physician.
Call a POISON CENTER or doctor/physician if you feel unwell.
Specific treatment see section 4.

Specific measures see section 4.
Rinse mouth.
Remove/Take off immediately all contaminated clothing.
Wash contaminated clothing before reuse.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage: Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal: Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: No data available.

Repeated Exposure Target Organs: No data available.

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
methanol	67-56-1	200-659-6	99.900000
cis-chlordane	5103-71-9		0.100000

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal

evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
cis-chlordane	5103-71-9	ND		No TLV	No data available.

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color: No data available.
Odor: Mild
Physical State: No data available.
pH: No data available
Vapor Density: 1.1 (air = 1)
Melting Point: -98 °C
Flash Point: 52
Flammability: Highly Flammable
Upper Flammable/Explosive Limit, % in air: 36.0
Lower Flammable/Explosive Limit, % in air: 6.0
Autoignition Temperature: 464 deg C
Decomposition Temperature: No data available.
Specific Gravity: 0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate: No data available.
Odor Threshold: No data available.
Solubility: Moderate; 50-99%
Partition Coefficient: n-octanol in water: No data available.
VOC % by weight: 99.90
Molecular Weight: 32.04

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Conditions to Avoid: No data available.
Materials to Avoid / Chemical Incompatiability: Strong oxidizing agents
Hazardous Decomposition Products: Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure: Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract
Chemical Interactions That Change Toxicity: None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.
Skin Contact:	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact:	Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.
Ingestion Toxicity:	Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	No data.
Reproductive and Developmental Toxicity:	Contains a known human reproductive and/or developmental hazard.
Inhalation:	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)
Skin Contact:	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Ingestion:	Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:

NIOSH:

Chemical Name	CAS No.	LD50/LC50
Methanol	67-56-1	Oral LD50 Rat 5628 mg/kg (Source: NLM_CIP); Inhalation LC50 Rat 83.2 mg/L 4 h (Source: IUCLID)

Component Carcinogenic Data:

OSHA:

Chemical Name	CAS No.
No data available.	

ACGIH:

Chemical Name	CAS No.
No data available.	

NIOSH:

Chemical Name	CAS No.
No data available.	

NTP:

Chemical Name	CAS No.
No data available.	

IARC:

Chemical Name	CAS No.	Group No.
No data.		Group 1
No data.		Group 2A
cis-Chlordane	5103-71-9	Group 2B

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	No data
Persistence:	No data

Bioaccumulation: No data
Degradability: Biodegrades slowly.
Ecological Toxicity Data: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product: Spent or discarded material is a hazardous waste.
Disposal Methods: Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging: Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:
DOT Proper Shipping Name: Methanol
UN Number: UN1230
Hazard Class: 3
Packing Group: II

International:
IATA Proper Shipping Name: Methanol
UN Number: UN1230
Hazard Class: 3 (6.1)
Packing Group: II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available.			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
methanol	67-56-1	X	X	-	X
cis-chlordane	5103-71-9	X	-	-	-

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Methanol	67-56-1	Prop 65 Devolop Tox

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
methanol	67-56-1	X	X	X	X
cis-chlordane	5103-71-9	-	-	-	-

16. OTHER INFORMATION

Prior Version Date: 04/22/14
Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding prodcuts described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

SAFETY DATA SHEET
SIN-1 (chloride)

Revision: 12/19/2018
Supersedes Revision: 01/23/2015

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Code: 82220

Product Name: SIN-1 (chloride)

Synonyms: 5-amino-3-(4-morpholinyl)-1,2,3-oxadiazolium chloride; Linsidomine; 3-Morpholino-sydnonimine;

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses: For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name: Cayman Chemical Company
1180 E. Ellsworth Rd.
Ann Arbor, MI 48108

Web site address: www.caymanchem.com

Information: Cayman Chemical Company +1 (734)971-3335

1.4 Emergency telephone number:

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300
CHEMTREC Outside USA and Canada: +1 (703)527-3887

Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture:

2.2 Label Elements:

GHS Signal Word: **None**

GHS Hazard Phrases:

Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.

GHS Precaution Phrases:

No phrases apply.

GHS Response Phrases:

No phrases apply.

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Effects and Symptoms: Material may be irritating to the mucous membranes and upper respiratory tract.
May be harmful by inhalation, ingestion, or skin absorption.
May cause eye, skin, or respiratory system irritation.
To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
16142-27-1 WU7687800	SIN-1 Chloride	100.0 %	605-254-1 NA	Flam. Sol. 1: H228 Self-React. B: H241 Acute Tox.(O) 4: H302 Skin Sens. 1A: H317 Aquatic (C) 2: H411

SAFETY DATA SHEET
SIN-1 (chloride)

Revision: 12/19/2018
Supersedes Revision: 01/23/2015

Section 4. First Aid Measures

4.1 Description of First Aid Measures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.

In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media: A solid water stream may be inefficient.

5.2 Flammable Properties and Hazards: No data available.

No data available.

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

6.1 Protective Precautions, Protective Equipment and Emergency Procedures: Avoid raising and breathing dust, and provide adequate ventilation.
As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2 Environmental Precautions: Take steps to avoid release into the environment, if safe to do so.

6.3 Methods and Material For Containment and Cleaning Up: Contain spill and collect, as appropriate.
Transfer to a chemical waste container for disposal in accordance with local regulations.

Section 7. Handling and Storage

7.1 Precautions To Be Taken in Handling: Avoid breathing dust/fume/gas/mist/vapours/spray.
Avoid prolonged or repeated exposure.

7.2 Precautions To Be Taken in Storing: Keep container tightly closed.
Store in accordance with information listed on the product insert.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

8.2 Exposure Controls:

8.2.1 Engineering Controls (Ventilation etc.): Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

8.2.2 Personal protection equipment:

Eye Protection: Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

Respiratory Equipment (Specify Type): NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices: Do not take internally.
Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.
Wash thoroughly after handling.
No data available.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: [ ] Gas [ ] Liquid [X] Solid

Appearance and Odor: A crystalline solid

pH: No data.

Melting Point: No data.

Boiling Point: No data.

Flash Pt: No data.

Evaporation Rate: No data.

Flammability (solid, gas): No data available.

Explosive Limits: LEL: No data. UEL: No data.

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): No data.

Solubility in Water: No data.

Solubility Notes: ~10 mg/ml in PBS (pH 7.2); ~5 mg/ml in EtOH, DMSO, & DMF;

Octanol/Water Partition Coefficient: No data.

Autoignition Pt: No data.

Decomposition Temperature: No data.

Viscosity: No data.

9.2 Other Information

Percent Volatile: No data.

Molecular Formula & Weight: $C_6H_{11}N_4O_2 \cdot Cl$ 206.6

SAFETY DATA SHEET
SIN-1 (chloride)

Revision: 12/19/2018
Supersedes Revision: 01/23/2015

Section 10. Stability and Reactivity

10.1 Reactivity: No data available.

10.2 Stability: Unstable [ ] Stable [X]

10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.

Polymerization: Will occur [ ] Will not occur [X]

10.4 Conditions To Avoid: No data available.

10.5 Incompatibility - Materials To Avoid: strong oxidizing agents

10.6 Hazardous Decomposition or Byproducts:
carbon dioxide
carbon monoxide
hydrogen chloride gas
nitrogen oxides

Section 11. Toxicological Information

11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied.
SIN-1 (chloride) - Toxicity Data: Oral LD50 (mouse): 480 mg/kg; Intraperitoneal LD50 (mouse): 315 mg/kg;

Chronic Toxicological Effects: SIN-1 (chloride) - Investigated as a drug and mutagen.
Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.
See actual entry in RTECS for complete information.
SIN-1 (chloride) RTECS Number: WU7687800

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
16142-27-1	SIN-1 Chloride	n.a.	n.a.	n.a.	n.a.

Section 12. Ecological Information

12.1 Toxicity: Avoid release into the environment.
Runoff from fire control or dilution water may cause pollution.

12.2 Persistence and Degradability: No data available.

12.3 Bioaccumulative Potential: No data available.

12.4 Mobility in Soil: No data available.

12.5 Results of PBT and vPvB assessment: No data available.

12.6 Other adverse effects: No data available.

Section 13. Disposal Considerations

13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not dangerous goods.

DOT Hazard Class:

UN/NA Number:

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not dangerous goods.

UN Number:

Hazard Class:

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

Section 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
16142-27-1	SIN-1 Chloride	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
16142-27-1	SIN-1 Chloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No

Regulatory Information Statement: This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.

Section 16. Other Information

Revision Date: 12/19/2018

Additional Information About This Product: No data available.

Company Policy or Disclaimer: DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

Tel: 514-956-7503
Fax: 514-956-7504
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Email : support@megs.ca

Montreal	St-Laurent	Tel : 514-956-7503	Fax : 514-956-7504
Ottawa	Nepean	Tel : 613-226-4228	Fax : 613-226-4229
Quebec	Quebec	Tel : 418-834-7447	Fax : 418-834-3774

CHLOROBENZENE- MATERIAL SAFETY DATA SHEET

TABLE OF CONTENTS:

1. Chemical Product and Company Identification
2. Composition, Information on Ingredients
3. Hazards Identification
4. First Aid Measures
5. Fire Fighting Measures
6. Accidental Release Measures
7. Handling and Storage
8. Exposure Controls, Personal Protection
9. Physical and Chemical Properties
10. Stability and Reactivity
11. Toxicological Information
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13. Disposal Considerations
14. Transport Information
15. Regulatory Information
16. Other Information

24 Hour EMERGENCY CONTACT

U.S- CHEMTREC 1-800-424-9300

CANADA- CANUTEC 613-996-6666

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Up to Table of Contents

Matheson Tri-Gas, Inc.

The telephone numbers listed below are emergency numbers, please contact your local branch for routine inquiries.

USA	CANADA
959 Route 46 East	530 Watson Street
Parsippany, New Jersey	Whitby, Ontario
07054-0624 USA	L1N 5R9 Canada
Phone: 973-257-1100	**Phone:** 905-668-3570

SUBSTANCE: CHLOROBENZENE

SYMBOL: C_6H_5Cl

TRADE NAMES/SYNONYMS:
PHENYL CHLORIDE; MONOCHLOROBENZENE; CP 27; I.P. CARRIER T 40; MCB; TETROSIR SP; U037; STCC 4909153; UN 1134; MONOCHLOROBENZOL; BENZENE CHLORIDE; B-224; B-255; BBENZENE, CHLORO; MAT04730; RTECS CZ0175000

CHEMICAL FAMILY: halogenated, aromatic

CREATION DATE: Jan 24 1989
REVISION DATE: Mar 16 1999

2. COMPOSITION, INFORMATION ON INGREDIENTS

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COMPONENT: CHLOROBENZENE

CAS NUMBER: 108-90-7

EC NUMBER (EINECS): 203-628-5

EC INDEX NUMBER: 602-033-00-1

PERCENTAGE: 100.0

3. HAZARDS IDENTIFICATION

Up to Table of Contents

NFPA RATINGS (SCALE 0-4): HEALTH=3 FIRE=3 REACTIVITY=0

WHMIS CLASSIFICATION: BD2

EC CLASSIFICATION (ASSIGNED):
Flammable
Xn Harmful
N Dangerous for the Environment

R 10-20-51/53

EC Classification may be inconsistent with independently-researched data.

EMERGENCY OVERVIEW:
Color: colorless

Physical Form: liquid

Odor: almond odor

Major Health Hazards: harmful if inhaled, respiratory tract irritation, skin irritation, eye irritation, central nervous system depression

Physical Hazards: Flammable liquid and vapor. Vapor may cause flash fire.

POTENTIAL HEALTH EFFECTS:

INHALATION:
Short Term Exposure: irritation, headache, drowsiness, symptoms of drunkenness, bluish skin color, coma
Long Term Exposure: tingling sensation, liver damage

SKIN CONTACT:
Short Term Exposure: irritation, rash
Long Term Exposure: burns

EYE CONTACT:
Short Term Exposure: irritation
Long Term Exposure: same as effects reported in short term exposure

INGESTION:
Short Term Exposure: nausea, vomiting, stomach pain, headache, symptoms of drunkenness, bluish skin color, coma
Long Term Exposure: liver damage

CARCINOGEN STATUS:
OSHA: N
NTP: N
IARC: N

4. FIRST AID MEASURES

Up to Table of Contents

INHALATION:
Remove from exposure immediately. Use a bag valve mask or similar device to perform artificial respiration (rescue breathing) if needed. Get medical attention.

SKIN CONTACT:
Remove contaminated clothing, jewelry, and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Get medical attention, if needed.

EYE CONTACT:
Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains. Get medical attention immediately.

INGESTION:
If vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately.

NOTE TO PHYSICIAN:
For ingestion, consider gastric lavage. Consider oxygen.

5. FIRE FIGHTING MEASURES

Up to Table of Contents

FIRE AND EXPLOSION HAZARDS:
Severe fire hazard. Moderate explosion hazard. Vapor/air mixtures are explosive above flash point. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back.

EXTINGUISHING MEDIA:
regular dry chemical, carbon dioxide, water, regular foam

Large fires: Use regular foam or flood with fine water spray.

FIRE FIGHTING:
Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. If this is impossible then take the following precautions: Keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck: Evacuation radius: 800 meters (1/2 mile). Do not attempt to extinguish fire unless flow of material can be stopped first. Flood with fine water spray. Do not scatter spilled material with high-pressure water streams. Cool containers with water spray until well after the fire is out. Apply water from a protected location or from a safe distance. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Water may be ineffective.

FLASH POINT:
82 F (28 C) (CC)

LOWER FLAMMABLE LIMIT:
1.3%

UPPER FLAMMABLE LIMIT:
7.1%

AUTOIGNITION:
1099 F (593 C)

FLAMMABILITY CLASS (OSHA):
IC

6. ACCIDENTAL RELEASE MEASURES

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AIR RELEASE:
Reduce vapors with water spray.

SOIL RELEASE:
Trap spilled material at bottom in deep water pockets, excavated holding areas or within sand bag barriers. Dike for later disposal. Absorb with sand or other non-combustible material. Collect with absorbent into suitable container.

WATER RELEASE:
Absorb with activated carbon. Remove trapped material with suction hoses. Collect spilled material using mechanical equipment.

OCCUPATIONAL RELEASE:
Avoid heat, flames, sparks and other sources of ignition. Stop leak if possible without personal risk. Reduce vapors with water spray. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal. Remove sources of ignition. Keep unnecessary people away, isolate hazard area and deny entry. Reportable Quantity (RQ): Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).

7. HANDLING AND STORAGE

Up to Table of Contents

Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.106. Grounding and bonding required. Store with flammable liquids. Store outside or in a detached building. Keep separated from incompatible substances. Keep separated from incompatible substances.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Up to Table of Contents

EXPOSURE LIMITS:
CHLOROBENZENE:
75 ppm (350 mg/m3) OSHA TWA
10 ppm (46 mg/m3) ACGIH TWA

VENTILATION: Provide local exhaust ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.

EYE PROTECTION: Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

CLOTHING: Wear appropriate chemical resistant clothing.

GLOVES: Wear appropriate chemical resistant gloves.

RESPIRATOR: The following respirators and maximum use concentrations are drawn from NIOSH and/or OSHA.
1000 ppm
Any supplied-air respirator.
Any powered, air-purifying respirator with organic vapor cartridge(s).
Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s).
Any air-purifying respirator with a full facepiece and an organic vapor canister.
Any self-contained breathing apparatus with a full facepiece.
Any supplied-air respirator with a full facepiece.
Escape -
Any air-purifying respirator with a full facepiece and an organic vapor canister.
Any appropriate escape-type, self-contained breathing apparatus.
For Unknown Concentrations or Immediately Dangerous to Life or Health -
Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.
Any self-contained breathing apparatus with a full facepiece.

9. PHYSICAL AND CHEMICAL PROPERTIES

Up to Table of Contents

PHYSICAL STATE: liquid

COLOR: colorless

ODOR: almond odor

MOLECULAR WEIGHT: 112.56

MOLECULAR FORMULA: C6-H5-CL

BOILING POINT: 270 F (132 C)

FREEZING POINT: -51 F (-46 C)

VAPOR PRESSURE: 8.8 mmHg @ 20 C

VAPOR DENSITY (air=1): 3.9

SPECIFIC GRAVITY (water=1): 1.107 @ 20/4 C

WATER SOLUBILITY: 0.1%

PH: Not available

VOLATILITY: Not available

ODOR THRESHOLD: 0.21 ppm

EVAPORATION RATE: 1 (butyl acetate=1)

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

SOLVENT SOLUBILITY:
Soluble: alcohol, ether, chloroform, benzene, carbon disulfide, carbon tetrachloride

10. STABILITY AND REACTIVITY

Up to Table of Contents

REACTIVITY:
Stable at normal temperatures and pressure.

CONDITIONS TO AVOID:
Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat. Keep out of water supplies and sewers.

INCOMPATIBILITIES:
combustible materials, oxidizing materials, metals

HAZARDOUS DECOMPOSITION:
Thermal decomposition products: phosgene, halogenated compounds, oxides of carbon

POLYMERIZATION:
Will not polymerize.

11. TOXICOLOGICAL INFORMATION

Up to Table of Contents

CHLOROBENZENE:

TOXICITY DATA:
2965 ppm inhalation-rat LC50; 1110 mg/kg oral-rat LD50

CARCINOGEN STATUS:
ACGIH: A3 -Animal Carcinogen

LOCAL EFFECTS:
Irritant: inhalation, skin, eye

ACUTE TOXICITY LEVEL:
Moderately Toxic: inhalation, ingestion

TARGET ORGANS:
central nervous system

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
kidney disorders, liver disorders, respiratory disorders, skin disorders and allergies

TUMORIGENIC DATA:
Available.

MUTAGENIC DATA:
Available.

REPRODUCTIVE EFFECTS DATA:
Available.

ADDITIONAL DATA:
Alcohol may enhance the toxic effects.

12. ECOLOGICAL INFORMATION

Up to Table of Contents

ECOTOXICITY DATA:

FISH TOXICITY:
10000 ug/L 96 hour(s) LC50 (Mortality) Sheepshead minnow (Cyprinodon variegatus)

INVERTEBRATE TOXICITY:
1720 ug/L 96 hour(s) LC50 (Mortality) Fleshy prawn (Penaeus chinensis)

ALGAL TOXICITY:
343000 ug/L 96 hour(s) EC50 (Photosynthesis) Diatom (Skeletonema costatum)

FATE AND TRANSPORT:

BIOCONCENTRATION:
4185 ug/L 48 day(s) BCF (Residue) Green algae (Oedogonium cardiacum) 1.01 ug/L

13. DISPOSAL CONSIDERATIONS

Up to Table of Contents

Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001. Hazardous Waste Number(s): D021. Dispose of in accordance with U.S. EPA 40 CFR 262 for concentrations at or above the Regulatory level. Regulatory level- 100.0 mg/L. Dispose in accordance with all applicable regulations.

14. TRANSPORT INFORMATION

Up to Table of Contents

U.S. DOT 49 CFR 172.101. SHIPPING NAME-UN NUMBER; HAZARD CLASS; PACKING GROUP; LABEL:
Chlorobenzene-UN1134; 3; III; Flammable liquid

15. REGULATORY INFORMATION

Up to Table of Contents

U.S. REGULATIONS:
TSCA INVENTORY STATUS: Y

TSCA 12(b) EXPORT NOTIFICATION: Y
Monochlorobenzene
CAS NUMBER: 108-90-7
SECTION 4

CERCLA SECTION 103 (40CFR302.4): Y
Chlorobenzene: 100 LBS RQ

SARA SECTION 302 (40CFR355.30): N

SARA SECTION 304 (40CFR355.40): N

SARA SECTION 313 (40CFR372.65): Y
Chlorobenzene

SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21):
ACUTE: Y
CHRONIC: N
FIRE: Y
REACTIVE: N
SUDDEN RELEASE: N

OSHA PROCESS SAFETY (29CFR1910.119): N

STATE REGULATIONS:
California Proposition 65: N

EUROPEAN REGULATIONS:

EC NUMBER (EINECS): 203-628-5

EC RISK AND SAFETY PHRASES:

R 10	Flammable.
R 20	Harmful by inhalation.
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S 2	Keep out of reach of children.
S 24/25	Avoid contact with skin and eyes.
S 61	Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. OTHER INFORMATION

Up to Table of Contents

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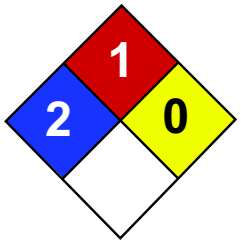

Health	2
Fire	1
Reactivity	0
Personal Protection	E

Material Safety Data Sheet
Chromium MSDS

Section 1: Chemical Product and Company Identification

Product Name: Chromium

Catalog Codes: SLC4711, SLC3709

CAS#: 7440-47-3

RTECS: GB4200000

TSCA: TSCA 8(b) inventory: Chromium

CI#: Not applicable.

Synonym: Chromium metal; Chrome; Chromium Metal Chips 2" and finer

Chemical Name: Chromium

Chemical Formula: Cr

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Chromium	7440-47-3	100

Toxicological Data on Ingredients: Chromium LD50: Not available. LC50: Not available.

Section 3: Hazards Identification

Potential Acute Health Effects:
Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of ingestion.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys, lungs, liver, upper respiratory tract. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact:
In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: 580°C (1076°F)

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: Some metallic oxides.

Fire Hazards in Presence of Various Substances:
Slightly flammable to flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards:
Moderate fire hazard when it is in the form of a dust (powder) and burns rapidly when heated in flame. Chromium is attacked vigorously by fused potassium chlorate producing vivid incandescence. Pyrophoric chromium unites with nitric oxide with incandescence. Incandescent reaction with nitrogen oxide or sulfur dioxide.

Special Remarks on Explosion Hazards:
Powdered Chromium metal +fused ammonium nitrate may react violently or explosively. Powdered Chromium will explode spontaneously in air.

Section 6: Accidental Release Measures

Small Spill:
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids, alkalis.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:
Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 0.5 (mg/m3) from ACGIH (TLV) [United States] TWA: 1 (mg/m3) from OSHA (PEL) [United States] TWA: 0.5 (mg/m3) from NIOSH [United States] TWA: 0.5 (mg/m3) [United Kingdom (UK)] TWA: 0.5 (mg/m3) [Canada]Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Metal solid.)

Odor: Odorless.

Taste: Not available.

Molecular Weight: 52 g/mole

Color: Silver-white to Grey.

pH (1% soln/water): Not applicable.

Boiling Point: 2642°C (4787.6°F)

Melting Point: 1900°C (3452°F) +/- !0 deg. C

Critical Temperature: Not available.

Specific Gravity: 7.14 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility:
Insoluble in cold water, hot water. Soluble in acids (except Nitric), and strong alkalies.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents, acids, alkalis.

Corrosivity: Not available.

Special Remarks on Reactivity:
Incompatible with molten Lithium at 180 deg. C, hydrogen peroxide, hydrochloric acid, sulfuric acid, most caustic alkalies and alkali carbonates, potassium chlorate, sulfur dioxide, nitrogen oxide, bromine pentafluoride. It may react violently or ignite with bromine pentafluoride. Chromium is rapidly attacked by fused sodium hydroxide + potassium nitrate. Potentially hazardous incompatibility with strong oxidizers.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals:
LD50: Not available. LC50: Not available.

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC. May cause damage to the following organs: kidneys, lungs, liver, upper respiratory tract.

Other Toxic Effects on Humans:
Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of ingestion.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:
May cause cancer based on animal data. There is no evidence that exposure to trivalent chromium causes cancer in man.

Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects: May cause skin irritation. Eyes: May cause mechanical eye irritation. Inhalation: May cause irritation of the respiratory tract and mucous membranes of the respiratory tract. Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea. Chronic Potential Health Effects: Inhalation: The effects of chronic exposure include irritation , sneezing, reddness of the throat, bronchospasm, asthma, cough, polyps, chronic inflammation, emphysema, chronic bronchitis, pharyngitis, bronchopneumonia, pneumoconoisis. Effects on the nose from chronic chromium exposure include irritation, ulceration, and perforation of the nasal septum. Inflammation and ulceration of the larynx may also occur. Ingestion or Inhalation: Chronic exposure may cause liver and kidney damage.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations:
Connecticut hazardous material survey.: Chromium Illinois toxic substances disclosure to employee act: Chromium Illinois chemical safety act: Chromium New York release reporting list: Chromium Rhode Island RTK hazardous substances: Chromium Pennsylvania RTK: Chromium Minnesota: Chromium Michigan critical material: Chromium Massachusetts RTK: Chromium Massachusetts spill list: Chromium New Jersey: Chromium New Jersey spill list: Chromium Louisiana spill reporting: Chromium California Director's List of Hazardous Substances: Chromium TSCA 8(b) inventory: Chromium SARA 313 toxic chemical notification and release reporting: Chromium CERCLA: Hazardous substances.: Chromium: 5000 lbs. (2268 kg)

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):
R40- Limited evidence of carcinogenic effect S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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Last Updated: 11/06/2008 12:00 PM

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SAFETY DATA SHEET

Based on Directive 2001/58/EC of the Commission of the European Communities

CHRYSENE

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Synonyms: none

CAS No.	: 218-01-9	**BCR number**	: BCR-269
EC index No.	: 601-048-00-0	**NFPA code**	: N.D.
EINECS No.	: 205-923-4	**Molecular weight**	: 228.30
RTECS No.	: GC0700000	**Formula**	: C18H12

1.2 Use of the substance or the preparation:
Certified reference material for laboratory use only

1.3 Company/undertaking identification:
Institute for Reference Materials and Measurements
Retieseweg
B-2440 Geel
Tel. : +32 14 57 12 11
Fax : +32 14 58 42 73

1.4 Telephone number for emergency:
+32 70 245 245
Antigifcentrum
p/a Militair Hospitaal Koningin Astrid, Bruynstraat, B-1120 Brussel

2. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS No.	Conc. in %	Hazard symbol	Risks (R-phrases)
chrysene	218-01-9 205-923-4	100	T;N	45-50/53 (1)

(1) For R-phrases in full: see heading 16

3. Hazards identification

- May cause cancer
- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

4. First aid measures

4.1 Eye contact:
- Consult a doctor/medical service if irritation persists
- Rinse immediately with water

4.2 Skin contact:
- Consult a doctor/medical service if irritation persists
- Wash with water and soap
- Wipe off dry product from skin
- Remove clothing before washing

4.3 After inhalation:
- Consult a doctor/medical service if breathing problems develop
- Remove the victim into fresh air
- Unconscious: maintain adequate airway and respiration

4.4 After ingestion:
- Consult a doctor/medical service if you feel unwell
- Immediately give lots of water to drink
- Never give water to an unconscious person

- Do not induce vomiting

5. Fire-fighting measures

5.1 Suitable extinguishing media:
- Water spray
- Alcohol foam
- Polymer foam
- ABC powder
- Carbon dioxide

5.2 Unsuitable extinguishing media:
- Solid water jet ineffective as extinguishing medium

5.3 Special exposure hazards:
- Not easily combustible
- Upon combustion CO and CO2 are formed

5.4 Instructions:
- Take account of toxic firefighting water
- Use firefighting water moderately and contain it

5.5 Special protective equipment for firefighters:
- Heat/fire exposure: compressed air/oxygen apparatus
- Dust cloud production: compressed air/oxygen apparatus

6. Accidental release measures

6.1 Personal protection/precautions: see heading 8.1/8.3/10.3

6.2 Environmental precautions:
- Prevent soil and water pollution
- Substance must not be discharged into the sewer
- Dam up the solid spill

6.3 Methods for cleaning up:
- Stop dust cloud by covering with sand/earth
- Carefully collect the spill/leftovers
- Scoop solid spill into closing containers
- Spill must not return in its original container
- Take collected spill to manufacturer/competent authority
- Clean contaminated surfaces with an excess of water
- Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:
- Observe strict hygiene
- Avoid prolonged and repeated contact with skin
- Avoid raising dust
- Do not discharge the waste into the drain
- Remove contaminated clothing immediately

7.2 Storage:
- Keep container tightly closed. Store only in a limited quantity. Store in a dry area. Store in a dark area.
- Keep away from: heat sources, ignition sources, oxidizing agents, acids

Storage temperature	:	N.D.	**°C**
Quantity limits	:	N.D.	**kg**
Storage life	:	N.D.	
Materials for packaging	:		

- suitable : no data available
- to avoid : no data available

7.3 Specific uses:
- See information supplied by the manufacturer

8. Exposure controls/Personal protection

8.1 Exposure limit values:

TLV-TWA	:	not listed
TLV-STEL	:	not listed
TLV-Ceiling	:	not listed
OES-LTEL	:	not listed
OES-STEL	:	not listed
MEL-LTEL	:	not listed
MEL-STEL	:	not listed
MAK	:	not listed
TRK	:	not listed
MAC-TGG 8 h	:	not listed
MAC-TGG 15 min.	:	not listed
MAC-Ceiling	:	not listed
VME-8 h	:	not listed
VLE-15 min.	:	not listed
GWBB-8 h	:	not listed
GWK-15 min.	:	not listed
Momentary value	:	not listed
EC	:	not listed
EC-STEL	:	not listed

Sampling methods:

- Chrysene (Polynuclear aromatic Hydrocarbons)	NIOSH 5515
- Chrysene	OSHA 58
- Chrysene (Polynuclear aromatic Hydrocarbons)	NIOSH 5506

8.2 Exposure controls:

8.2.1 Occupational exposure controls:
- Measure the concentration in the air regularly
- Work under local exhaust/ventilation

8.2.2 Environmental exposure controls: see heading 13

8.3 Personal protection:

8.3.1 respiratory protection:
- Dust production: dust mask with filter type P3
- High dust production: compressed air/oxygen apparatus

8.3.2 hand protection:
- Gloves
  Suitable materials: No data available
- Breakthrough time: N.D.

8.3.3 eye protection:
- Safety glasses
- In case of dust production: protective goggles

8.3.4 skin protection:
- Protective clothing
- In case of dust production: head/neck protection
  Suitable materials: No data available

9. Physical and chemical properties

9.1 General information:

Appearance (at 20°C)	: Crystalline solid / Flakes	
Odour	: Odourless	
Colour	: White	

9.2 Important health, safety and environmental information:

pH value	: N.D.	
Boiling point/boiling range	: 448	**°C**
Flashpoint	: N.D.	**°C**
Explosion limits	: N.D.	**vol% (°C)**
Vapour pressure (at 20°C)	: N.D.	**hPa**
Vapour pressure (at 50°C)	: N.D.	**hPa**
Relative density (at 20°C)	: 1.27	
Water solubility	: < 0.001	**g/100 ml**
Soluble in	: N.D.	
Relative vapour density	: N.D.	
Viscosity	: N.D.	**Pa.s**
Partition coëfficient n-octanol/water	: 5.61/5.73	
Evaporation rate		
ratio to butyl acetate	: N.D.	
ratio to ether	: N.D.	

9.3 Other information:

Melting point/melting range	: 256	**°C**
Auto-ignition point	: N.D.	**°C**
Saturation concentration	: N.D.	**g/m^3**

10. Stability and reactivity

10.1 Conditions to avoid/reactivity:
- Stable under normal conditions

10.2 Materials to avoid:
- Keep away from: heat sources, ignition sources, oxidizing agents, acids

10.3 Hazardous decomposition products:
- Upon combustion CO and CO2 are formed
- Reacts violently with (strong) oxidizers
- Decomposes on exposure to (strong) acids

11. Toxicological information

11.1 Acute toxicity:

LD50 oral rat	: N.D.	**mg/kg**
LD50 dermal rat	: N.D.	**mg/kg**
LD50 dermal rabbit	: N.D.	**mg/kg**
LC50 inhalation rat	: N.D.	**mg/l/4 h**
LC50 inhalation rat	: N.D.	**ppm/4 h**

11.2 Chronic toxicity:

EC carc. cat.	:	2
EC muta. cat.	:	3
EC repr. cat.	:	not listed
Carcinogenicity (TLV)	:	A3
Carcinogenicity (MAC)	:	K
Carcinogenicity (VME)	:	not listed
Carcinogenicity (GWBB)	:	not listed
Carcinogenicity (MAK)	:	2
Mutagenicity (MAK)	:	not listed
Teratogenicity (MAK)	:	-
IARC classification	:	3

11.3 Routes of exposure: ingestion, inhalation, eyes and skin
Caution! Substance is absorbed through the skin

11.4 Acute effects/symptoms:

AFTER SKIN CONTACT
- Slight irritation

11.5 Chronic effects:

- Probably human carcinogenic
- No certainty about human mutagenic properties

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:
- No specific information available

SIMILAR PRODUCTS CAUSE FOLLOWING SYMPTOMS:
- Feeling of weakness
- Photoallergy
- Cracking of the skin
- Skin rash/inflammation
- Skin cancer
- Lung tissue affection/degeneration
- Enlargement/affection of the liver
- Affection of the renal tissue

12. Ecological information

12.1 Ecotoxicity:

- LC50 (24 h) : 0.0007 mg/l (DAPHNIA MAGNA)
- LC50 (24 h) : >6.7 mg/l (RANA SP.)

12.2 Mobility:

- **Volatile organic compounds (VOC):** N.D.%

- Forming sediments in water
- Adsorbs into the soil
- Insoluble in water

For other physicochemical properties see heading 9.

12.3 Persistence and degradability:

- biodegradation BOD_5	:	N.D.	**% ThOD**
- water	:	- Not readily biodegradable in water	
- soil	:	**T ½:** > 77	**days**

12.4 Bioaccumulative potential:
- **log P_{ow}** : 5.61/5.73
- **BCF** : 4440 (LAMELLIBRANCHIATA)
- Highly bioaccumulative

12.5 Other adverse effects:

- **WGK** : 3 (Classification based on the R-phrases in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)
- **Effect on the ozone layer** : Not dangerous for the ozone layer (Council Regulation (EC) 3093/94)
- **Greenhouse effect** : no data available
- **Effect on waste water purification** : no data available

13. Disposal considerations

13.1 Provisions relating to waste:

- Waste material code (91/689/EEC, Council Decision
- 2001/118/EC, O.J. L47 of 16/2/2001): 16 05 06 (laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory)
- Waste material code (Flanders): 001, 045, 691
- Waste code (Germany): 59302
- Hazardous waste (91/689/EEC)

13.2 Disposal methods:

- Dissolve or mix with a combustible solvent
- Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber
- Do not discharge into surface water (2000/60/EEC, Council

13.3 Packaging/Container:

- Waste material code packaging (91/689/EEC, Council Decision
- 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10 (packaging containing residues of or contaminated by dangerous substances)

14. Transport information

90
3077

14.1 Classification of the substance in compliance with UN Recommendations

UN number	: 3077
CLASS	: 9
SUB RISKS	: -
PACKING	: III
PROPER SHIPPING NAME	: UN 3077, Environmentally hazardous substance, solid, n.o.s. (chrysene)

14.2 ADR (transport by road)

CLASS	: 9
PACKING	: III
DANGER LABEL TANKS	: 9
DANGER LABEL PACKAGES	: 9

14.3 RID (transport by rail)

CLASS	: 9
PACKING	: III
DANGER LABEL TANKS	: 9
DANGER LABEL PACKAGES	: 9

14.4 ADNR (transport by inland waterways)

CLASS	: 9
PACKING	: III
DANGER LABEL TANKS	: 9
DANGER LABEL PACKAGES	: 9

14.5 IMDG (maritime transport)

CLASS	: 9
SUB RISKS	: -
PACKING	: III
MFAG	: -
EMS	: -
MARINE POLLUTANT	: P

14.6 ICAO (air transport)

CLASS	: 9
SUB RISKS	: -
PACKING	: III
PACKING INSTRUCTIONS PASSENGER AIRCRAFT	:
PACKING INSTRUCTIONS CARGO AIRCRAFT	:

14.7 Special precautions in connection with transport : none

14.8 Limited quantities (LQ) :

When substances and their packaging meet the conditions established by ADR/RID/ADNR in chapter 3.4, **only** the following prescriptions shall be complied with:
each package shall display a diamond-shaped figure with the following inscription:
- 'UN 3077'
or, in the case of different goods with different identification numbers within a single package:
- the letters 'LQ'

15. Regulatory information

Enumerated in substance list Annex I of directive 67/548/EEC et sequens

Toxic

Dangerous for the environment

R45 : May cause cancer
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S53 : Avoid exposure - obtain special instructions before use
S45 : In case of accident or if you feel unwell, seek medical advice (show the label where possible)
S60 : This material and/or its container must be disposed of as hazardous waste
S61 : Avoid release to the environment. Refer to special instructions/safety data sheets.

16. Other information

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE
N.D. = NOT DETERMINED
***** = INTERNAL CLASSIFICATION

Full text of any R-phrases referred to under heading 2:

R45 : May cause cancer
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Exposure limits:

TLV : Threshold Limit Value - ACGIH USA 2000
OES : Occupational Exposure Standards - United Kingdom 1999
MEL : Maximum Exposure Limits - United Kingdom 1999
MAK : Maximale Arbeitsplatzkonzentrationen - Germany 2001
TRK : Technische Richtkonzentrationen - Germany 2001
MAC : Maximale aanvaarde concentratie - The Netherlands 2002
VME : Valeurs limites de Moyenne d'Exposition - France 1999
VLE : Valeurs limites d'Exposition à court terme - France 1999
GWBB : Grenswaarde beroepsmatige blootstelling - Belgium 1998
GWK : Grenswaarde kortstondige blootstelling - Belgium 1998
EC : Indicative occupational exposure limit values - directive 2000/39/EC

Chronic toxicity:

K : List of the carcinogenic substances and processes - The Netherlands 2002

SAFETY DATA SHEET

Version 4.4
Revision Date 12/01/2015
Print Date 02/11/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	cis-Dichloroethylene
Product Number	:	48597
Brand	:	Supelco
Index-No.	:	602-026-00-3
CAS-No.	:	156-59-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Acute toxicity, Inhalation (Category 4), H332
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.

P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/ physician if you feel unwell.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	C2H2Cl2
Molecular weight	:	96.94 g/mol
CAS-No.	:	156-59-2
EC-No.	:	205-859-7
Index-No.	:	602-026-00-3

Hazardous components

Component	Classification	Concentration
cis-Dichloroethylene		
	Flam. Liq. 2; Acute Tox. 4; Aquatic Acute 3; Aquatic Chronic 3; H225, H332, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature 2 - 8 °C

Handle and store under inert gas. Air and moisture sensitive. Light sensitive.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
cis-Dichloroethylene	156-59-2	TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Eye irritation		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: light yellow
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	-80.0 °C (-112.0 °F)
f)	Initial boiling point and boiling range	60.0 - 61.0 °C (140.0 - 141.8 °F)
g)	Flash point	6.0 °C (42.8 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	1.28 g/cm3
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available

p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5 Incompatible materials
Oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LC50 Inhalation - Rat - 13700 ppm
Remarks: Behavioral:Somnolence (general depressed activity). Liver:Fatty liver degeneration.

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: KV9420000

narcosis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1150 Class: 3 Packing group: II
Proper shipping name: 1,2-Dichloroethylene

Poison Inhalation Hazard: No

IMDG
UN number: 1150 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: 1,2-DICHLOROETHYLENE

IATA
UN number: 1150 Class: 3 Packing group: II
Proper shipping name: 1,2-Dichloroethylene

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
cis-Dichloroethylene	156-59-2	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
cis-Dichloroethylene	156-59-2	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
cis-Dichloroethylene	156-59-2	1993-04-24

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H332	Harmful if inhaled.
H402	Harmful to aquatic life.

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	1

NFPA Rating

Health hazard:	2
Fire Hazard:	3
Reactivity Hazard:	0

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.4 Revision Date: 12/01/2015 Print Date: 02/11/2016

Material Safety Data Sheet

Product Name: COBALT-BASED ALLOYS **ID: 1147**

* * * Section 1 - Chemical Product and Company Identification * * *

Chemical Formula: Cobalt (Co), chromium (Cr) and other alloying elements
Product Use: Cast aerospace parts
Other Designations: 694, 98M2, CoCrNiMoFe, ECY 768, F75, FSX 414, G34, How 1, How 3, How 6, How 12, How 19, How 21, How 25 (L605), How 31 (X40), How 36, How F, How J, Mar-M 302, Mar-M 509, Mar-M 918, Merle 72, MP35N, S 816, PT1377, PT1508, WI 52, X 45 and other Cobalt-Based Alloys

Alcoa Inc.
201 Isabella Street
Pittsburgh, PA 15212-5858

Phone: Health and Safety: 1-412-553-4649

Emergency Information: USA: Chemtrec: 1-800-424-9300 or 1-703-527-3887 Alcoa: 1-412-553-4001
Website: For a current MSDS, refer to Alcoa websites: www.alcoa.com or Internally at my.alcoa.com EHS Community

* * * Section 2 - Hazards Identification * * *

EMERGENCY OVERVIEW

Solid. Metallic appearance. Odorless. Non-combustible as supplied.

Explosion/fire hazards may be present when (See Sections 5, 7 and 10 for additional information):
* Molten metal is in contact with water/moisture.
* Heavily concentrated dust clouds are dispersed in the air.

Dust and fume from processing can cause irritation of eyes, skin and upper respiratory tract.

POTENTIAL HEALTH EFFECTS

The following statements summarize the health effects generally expected in cases of overexposures. User specific situations should be assessed by a qualified individual. Additional health information can be found in Section 11.
The health effects listed below are not likely to occur unless processing or recycling/combustion generate dusts or fumes.

Eyes Dust or fume from processing: Can cause irritation.
Skin Dust or fume from processing: Can cause irritation, sensitization and allergic contact dermatitis.
Inhalation Health effects from mechanical processing (e.g., cutting, grinding): Can cause upper respiratory tract irritation. **Chronic overexposures:** Can cause asthma, respiratory sensitization, scarring of the lungs (pulmonary fibrosis), central nervous system damage, secondary Parkinson's disease and reproductive harm in males.
Additional health effects from elevated temperature processing (e.g., welding, melting): **Acute overexposures:** Can cause nausea, fever, chills, shortness of breath and malaise (metal fume fever). **Chronic overexposures:** Can cause the accumulation of fluid in the lungs (pulmonary edema) and lung cancer.

Carcinogenicity and Reproductive Hazard

Product as shipped: Does not present any cancer or reproductive hazards.
Dust and fumes from mechanical processing: Can present a cancer hazard (nickel, cobalt). Can present a reproductive hazard for males (manganese).
Dust and fumes from welding or elevated temperature processing: Can present a cancer hazard (hexavalent chromium compounds, nickel compounds, welding fumes, cobalt compounds). Can present a reproductive hazard for males (manganese).

Medical Conditions Aggravated By Exposure to Product, Components or Compounds Formed During Processing

Dust or fume from processing: Asthma, chronic lung disease, skin rashes and secondary Parkinson's disease.

* * * Section 3 - Composition / Information on Ingredients * * *

Complete composition is provided below and may include some components classified as non-hazardous.

CAS #	Component	Percent
7440-48-4	Cobalt	35-65
7440-47-3	Chromium	15-35
7440-02-0	Nickel	0-35
7440-33-7	Tungsten	0-25
7439-89-6	Iron	0-20
7439-98-7	Molybdenum	0-15
7440-25-7	Tantalum	0-10
7440-62-2	Vanadium	0-5
7439-96-5	Manganese	0-5
7429-90-5	Aluminum	0-5
7440-03-1	Niobium	0-5
7440-21-3	Silicon	0-5
7440-44-0	Carbon	0-5

Component Information

Additional compounds which may be formed during processing are listed in Section 8.

* * * Section 4 - First Aid Measures * * *

First Aid: Eyes

Dust or fume from processing: Flush eyes with plenty of water or saline for at least 15 minutes. Consult a physician.

First Aid: Skin

Dust or fume from processing: Wash skin with soap and water for at least 15 minutes. Consult a physician if irritation persists.

First Aid: Inhalation

Dust or fume from processing: Remove to fresh air. If unconscious or severely injured, check for clear airway, breathing and presence of pulse. Perform CPR if there is no pulse or respiration. Consult a physician.

* * * Section 5 - Fire Fighting Measures * * *

Flammable/Combustible Properties

This product does not present fire or explosion hazards as shipped. Dust and fines may be ignitable.

Fire/Explosion

May be a potential hazard under the following conditions:

***** Molten metal in contact with water/moisture. Moisture entrapped by molten metal can be explosive. ***** Dust or fines dispersed in the air can be explosive. Heavily concentrated dusts in air can be explosive if subjected to a strong ignition source.

Extinguishing Media

Use a Class D agent, fluxing salts, graphite or dry sand on dust or fine fires. Otherwise, use fire fighting methods and materials that are appropriate for surrounding fire.

Unsuitable Extinguishing Media

DO NOT USE:

***** Water around molten metal.

These agents will react with the burning material.

Fire Fighting Equipment/Instructions

Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

* * * Section 6 - Accidental Release Measures * * *

Small/Large Spill: Avoid generating dust. Recover using mechanical means. Collect scrap for recycling.

* * * Section 7 - Handling and Storage * * *

Handling/Storage

Avoid generating dust. Avoid contact with sharp edges or heated metal. Product should be kept dry. Do not eat, drink, apply cosmetics, or smoke when handling or using.

Requirements for Remelting of Scrap Material and/or Ingot

Molten metal and water can be an explosive combination. The risk is greatest when there is sufficient molten metal to entrap or seal off the water. Water and other forms of contamination on or contained in scrap or remelt ingot are known to have caused explosions in melting operations. While the products may have minimal surface roughness and internal voids, there remains the possibility of moisture contamination or entrapment. If confined, even a few drops of water can lead to violent explosions.

During melting operations, the following minimum guidelines should be observed:

***** Inspect all materials prior to furnace charging and completely remove surface contamination such as water, ice, snow, deposits of grease and oil or other surface contamination resulting from weather exposure, shipment, or storage.

***** Store materials in dry, heated areas with any cracks or cavities pointed downwards.

***** Preheat and dry large or heavy items such as ingot adequately before charging into a furnace containing molten metal. This is typically done by use of a drying oven or homogenizing furnace. The drying cycle should bring the internal metal temperature of the coldest item of the batch to 400°F and then hold at that temperature for 6 hours.

* * * Section 8 - Exposure Controls / Personal Protection * * *

Engineering Controls

If dust or fumes are generated through processing: Use with adequate ventilation to meet the limits listed in Section 8, Exposure Guidelines.

Personal Protective Equipment

Respiratory Protection

If dust or fumes are generated through processing: Use NIOSH-approved respiratory protection as specified by an Industrial Hygienist or other qualified professional if concentrations exceed the limits listed in Section 8, Exposure Guidelines. Suggested respiratory protection: N95

Eye Protection Wear safety glasses/goggles to avoid eye injury.

Skin Protection Wear appropriate gloves to avoid any skin injury.

General

Personnel who handle and work with **molten metal** should utilize primary protective clothing like polycarbonate face shields, fire resistant tapper's jackets, neck shades (snoods), leggings, spats and similar equipment to prevent burn injuries. In addition to primary protection, secondary or day-to-day work clothing that is fire resistant and sheds metal splash is recommended for use with molten metal. Synthetic materials should never be worn even as secondary clothing (undergarments).

Exposure Guidelines

A: General Product Information

No Occupational Exposure Limit has been developed specifically for this product.

Alcoa recommends an Occupational Exposure Limit for **Cobalt** of 0.02 mg/m3 TWA.

Alcoa recommends an Occupational Exposure Limit for **Chromium (VI) Compounds [both soluble and insoluble forms]** of 0.25 ug/m3 TWA as chromium.

Alcoa recommends an Occupational Exposure Limit for **Nickel Compounds** of 0.1 mg/m3 TWA.

Alcoa recommends Occupational Exposure Limits for **Manganese** of 0.05 mg/m3 TWA (total particulate) and 0.02 mg/m3 TWA (respirable fraction).

B: Component Exposure Limits

Cobalt (7440-48-4)
ACGIH 0.02 mg/m3 TWA
OSHA 0.1 mg/m3 TWA (dust and fume)

Chromium (7440-47-3)
ACGIH 0.5 mg/m3 TWA
OSHA 1 mg/m3 TWA

Nickel (7440-02-0)
ACGIH 1.5 mg/m3 TWA (inhalable fraction)
OSHA 1 mg/m3 TWA

Tungsten (7440-33-7)
ACGIH 5 mg/m3 TWA
ACGIH 10 mg/m3 STEL

Molybdenum (7439-98-7)
ACGIH 10 mg/m3 TWA (inhalable fraction); 3 mg/m3 TWA (respirable fraction)
OSHA 15 mg/m3 TWA (total dust)

Tantalum (7440-25-7)
ACGIH 5 mg/m3 TWA (dust)
OSHA 5 mg/m3 TWA

Vanadium (7440-62-2)
OSHA 0.5 mg/m3 Ceiling (respirable dust, as V2O5); 0.1 mg/m3 Ceiling (fume, as V2O5)

Manganese (7439-96-5)
ACGIH 0.2 mg/m3 TWA
OSHA 5 mg/m3 Ceiling (fume)

Aluminum (7429-90-5)
ACGIH 10 mg/m3 TWA (metal dust)
OSHA 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

Silicon (7440-21-3)
OSHA 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

C: Exposure Limits for Additional Compounds Which May Be Formed During Processing

Chromium (II) compounds (Not Available)
OSHA 0.5 mg/m3 TWA (as Cr)

Chromium (III) Compounds (Not Available)
ACGIH 0.5 mg/m3 TWA (as Cr)
OSHA 0.5 mg/m3 TWA (as Cr)

Chromium (VI) compounds- water soluble (Not Available)
ACGIH 0.05 mg/m3 TWA (as Cr)

Chromium (VI) compounds (certain water insoluble forms) (Not Available)
ACGIH 0.01 mg/m3 TWA (as Cr)

Chromium (VI) (18540-29-9)
OSHA 2.5 µg/m3 Action Level; 5 µg/m3 TWA (Cancer hazard - See 29 CFR 1910.1026)

Nickel insoluble compounds (Not Available)
ACGIH 0.2 mg/m3 TWA (inhalable fraction, as Ni)
OSHA 1 mg/m3 TWA (as Ni)

Tungsten, insoluble compounds (Not Available)
ACGIH 5 mg/m3 TWA (as W)
ACGIH 10 mg/m3 STEL (as W)

Iron oxide (1309-37-1)
ACGIH 5 mg/m3 TWA (respirable fraction)
OSHA 10 mg/m3 TWA

Molybdenum insoluble compounds (Not Available)
ACGIH 10 mg/m3 TWA (inhalable fraction, as Mo); 3 mg/m3 TWA (respirable fraction, as Mo)
OSHA 15 mg/m3 TWA (total dust)
Tantalum oxide (1314-61-0)
ACGIH 5 mg/m3 TWA (dust, as Ta)
OSHA 5 mg/m3 TWA (dust)
Vanadium pentoxide (1314-62-1)
ACGIH 0.05 mg/m3 TWA (dust or fume, respirable fraction)
OSHA 0.5 mg/m3 Ceiling (respirable dust, as V2O5); 0.1 mg/m3 Ceiling (fume, as V2O5)
Manganese compounds, inorganic (Not Available)
ACGIH 0.2 mg/m3 TWA (as Mn)
OSHA 5 mg/m3 Ceiling (as Mn) (related to Manganese compounds)
Aluminum oxide (1344-28-1)
ACGIH 10 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica)
OSHA 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

* * * Section 9 - Physical & Chemical Properties * * *

Physical State:	Solid	**Appearance:**	Metallic appearance
Boiling Point:	Not determined	**Melting Point:**	2719ºF (1493ºC) Cobalt
Vapor Pressure:	Not applicable	**Vapor Density:**	Not applicable
Solubility in Water:	Not soluble	**Specific Gravity:**	See Density
Density:	550 lb/ft3 (8.8 g/cm3)	**pH Level:**	Not applicable
Odor:	Odorless	**Odor Threshold:**	Not applicable
Octanol-Water Coefficient:	Not applicable		

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Stability Stable under normal conditions of use, storage, and transportation.
Conditions to Avoid
In powder form, can react with strong oxidizers such as concentrated nitric acid. Molten metal can react violently/explosively with water or moisture, particularly when the water is entrapped.

* * * Section 11 - Toxicological Information * * *

Health Effects Associated with Individual Ingredients
Cobalt Can cause irritation of eyes, skin and respiratory tract. Skin contact: Can cause allergic reactions. Acute and chronic overexposures: Can cause respiratory sensitization, asthma, scarring of the lungs (pulmonary fibrosis) and damage to the heart muscle (cardiomyopathy). **Cobalt and certain cobalt compounds** IARC/NTP: Listed as possibly carcinogenic to humans by IARC (Group 2B)*.

Chromium dust and mist Can cause irritation of eyes, skin and respiratory tract. **Chromium and trivalent chromium** IARC/NTP: Listed as "unclassifiable as to carcinogenicity in humans" by IARC (Group 3).

Nickel dust and fumes Can cause irritation of eyes, skin and respiratory tract. Eye contact: Can cause inflammation of the eyes and eyelids (conjunctivitis). Skin contact: Can cause sensitization and allergic contact dermatitis. Chronic overexposures: Can cause perforation of the nasal septum, inflammation of the nasal passages (sinusitis), respiratory sensitization, asthma and scarring of the lungs (pulmonary fibrosis). **Nickel alloys** IARC/NTP: Reviewed but not recommended for listing by the NTP. Listed as possibly carcinogenic to humans by IARC (Group 2B)*.

Tungsten dust Can cause irritation of eyes, skin and upper respiratory tract.

Molybdenum dust and fumes Can cause irritation of mucous membranes, skin and respiratory tract. Acute overexposures: Can cause headache, backache and sore joints. Chronic overexposures: Can cause deformities of the joints, blood disorders, kidney damage, lung damage and liver damage.

Tantalum and tantalum oxide Can cause mechanical irritation of eyes, skin and upper respiratory tract. Generally of low toxicity.

Manganese dust or fumes Chronic overexposures: Can cause inflammation of the lung tissue, scarring of the lungs (pulmonary fibrosis), central nervous system damage, secondary Parkinson's disease and reproductive harm in males.

Aluminum dust, fines and fumes Low health risk by inhalation. Generally considered to be biologically inert.

Niobium dust and fumes Acute overexposures: Generally of low toxicity. Chronic overexposures: Can cause lung damage.

Silicon, inert dusts Chronic overexposures: Can cause chronic bronchitis and narrowing of the airways.

Health Effects Associated with Individual Compounds Formed During Processing

(The following could be expected if welded, remelted or otherwise processed at elevated temperatures.)

Hexavalent chromium (Chrome VI) Can cause irritation of eyes, skin and respiratory tract. Skin contact: Can cause irritant dermatitis, allergic reactions and skin ulcers. Chronic overexposures: Can cause perforation of the nasal septum, respiratory sensitization, asthma, the accumulation of fluid in the lungs (pulmonary edema), lung damage, kidney damage, lung cancer, nasal cancer and cancer of the gastrointestinal tract. IARC/NTP: Listed as "known to be a human carcinogen" by the NTP. Listed as carcinogenic to humans by IARC (Group 1)*.

Nickel compounds Associated with lung cancer, cancer of the vocal cords and nasal cancer. IARC/NTP: Listed as "known to be a human carcinogen" by the NTP. Listed as carcinogenic to humans by IARC (Group 1)*.

Iron oxide Chronic overexposures: Can cause benign lung disease (siderosis). Ingestion: Can cause irritation of gastrointestinal tract, bleeding, changes in the pH of the body fluids (metabolic acidosis) and liver damage.

Molybdenum trioxide Can cause irritation of eyes, mucous membranes and upper respiratory tract. Chronic overexposures: Can cause reduction in the number of red blood cells (anemia), predisposition to gout, thyroid function changes, liver damage and lung damage. Additional information: Studies with experimental animals by inhalation have found lung cancer.

Vanadium pentoxide Can cause irritation of eyes, skin and respiratory tract. Skin contact (prolonged or repeated): Can cause sensitization and dermatitis. Acute overexposures: Can cause inflammation of the eyes and eyelids (conjunctivitis), bronchitis and the accumulation of fluid in the lungs (pulmonary edema). Effects can be delayed for several days. Chronic overexposures: Can cause kidney damage, blindness, asthma and emphysema. IARC/NTP: Listed as possibly carcinogenic to humans by IARC (Group 2B)*.

Manganese oxide fumes Can cause irritation of eyes, skin and respiratory tract. Acute overexposures: Can cause nausea, fever, chills, shortness of breath and malaise (metal fume fever).

Alumina (aluminum oxide) Low health risk by inhalation. Generally considered to be biologically inert.

Silica, amorphous Acute overexposures: Can cause dryness of eyes, nose and upper respiratory tract.

Acute Toxicity of Ingredients/Formed Compounds

A: General Product Information No information available for product.

B: Component Analysis - LD50/LC50

Cobalt (7440-48-4) Inhalation LC50 Rat: >10 mg/L/1H; Oral LD50 Rat:6170 mg/kg

Nickel (7440-02-0) Oral LD50 Rat: >9000 mg/kg
Iron (7439-89-6) Oral LD50 Rat: 984 mg/kg
Manganese (7439-96-5) Oral LD50 Rat: 9 g/kg
Silicon (7440-21-3) Oral LD50 Rat: 3160 mg/kg
Carbon (7440-44-0) Oral LD50 Rat: >10000 mg/kg

C: Formed Compound Toxicity - LD50s/LC50s

Iron oxide (1309-37-1) Oral LD50 Rat: >10000 mg/kg
Tantalum oxide (1314-61-0) Oral LD50 Rat: 8 g/kg
Vanadium pentoxide (1314-62-1)
Inhalation LC50 Rat: 2.21 mg/L/4H; Oral LD50 Rat:10 mg/kg; Dermal LD50 Rat:>2500 mg/kg
Aluminum oxide (1344-28-1) Oral LD50 Rat: >5000 mg/kg
Silicon dioxide (amorphous) (69012-64-2)
Oral LD50 Rat: >5000 mg/kg; Inhalation LC50 Rat:>2.2 mg/L/1H; Dermal LD50 Rabbit:>2000 mg/kg (related to Silica, amorphous)

Carcinogenicity of Ingredients
A: Ingredient Carcinogenicity - IARC/NTP

Component	CAS	IARC 1	IARC 2A	IARC 2B	IARC 3	IARC 4	NTP K	NTP RA
Cobalt	7440-48-4	No	No	Yes	No	No	No	No
Chromium	7440-47-3	No	No	No	Yes	No	No	No
Nickel	7440-02-0	No	No	Yes	No	No	No	No

B: Ingredient Carcinogenicity - ACGIH

Cobalt (7440-48-4)
ACGIH A3 - Confirmed animal carcinogen with unknown relevance to humans
Chromium (7440-47-3)
ACGIH A4 - Not Classifiable as a Human Carcinogen
Nickel (7440-02-0)
ACGIH A5 - Not Suspected as a Human Carcinogen

C: Ingredient References

Cobalt (7440-48-4)
IARC Monograph 86 [2006] (without tungsten carbide), Monograph 52 [1991]
Chromium (7440-47-3)
IARC Monograph 49 [1990] (listed under Chromium and Chromium compounds), Supplement 7 [1987]
Nickel (7440-02-0)
IARC Monograph 49 [1990], Supplement 7 [1987]

Carcinogenicity of Compounds Formed During Processing
A: Formed Compound Carcinogenicity - IARC/NTP

Component	CAS	IARC 1	IARC 2A	IARC 2B	IARC 3	IARC 4	NTP K	NTP RA
Chromium (III) Compounds	Not Available	No	No	No	Yes	No	No	No
Chromium (VI) compounds (certain water insoluble forms)	Not Available	Yes	No	No	No	No	Yes	No
Nickel compounds	Not Available	Yes	No	No	No	No	Yes	No
Iron oxide	1309-37-1	No	No	No	Yes	No	No	No
Vanadium pentoxide	1314-62-1	No	No	Yes	No	No	No	No
Silicon dioxide (amorphous) (related to Silica, amorphous)	69012-64-2	No	No	No	Yes	No	No	No

B: Formed Compound Carcinogenicity - ACGIH

Chromium (III) Compounds (Not Available)
ACGIH A4 - Not Classifiable as a Human Carcinogen
Chromium (VI) compounds- water soluble (Not Available)
ACGIH A1 - Confirmed Human Carcinogen
Chromium (VI) compounds (certain water insoluble forms) (Not Available)
ACGIH A1 - Confirmed Human Carcinogen
Nickel insoluble compounds (Not Available)
ACGIH A1 - Confirmed Human Carcinogen
Iron oxide (1309-37-1)
ACGIH A4 - Not Classifiable as a Human Carcinogen
Vanadium pentoxide (1314-62-1)
ACGIH A4 - Not Classifiable as a Human Carcinogen (dust and fume)
Aluminum oxide (1344-28-1)
ACGIH A4 - Not Classifiable as a Human Carcinogen

C: Formed Compound References

Chromium (III) Compounds (Not Available)
IARC Monograph 49 [1990] (listed under Chromium and Chromium compounds), Supplement 7 [1987]
Chromium (VI) compounds (certain water insoluble forms) (Not Available)
IARC Monograph 49 [1990] (evaluated as a group)
Chromium (VI) (18540-29-9)
IARC Monograph 49 [1990] (evaluated as a group)
Nickel compounds (Not Available)
IARC Monograph 49 [1990] (evaluated as a group)
Iron oxide (1309-37-1)
IARC Supplement 7 [1987], Monograph 1 [1972]
Vanadium pentoxide (1314-62-1)
IARC Monograph 86 [2006]
Silicon dioxide (amorphous) (69012-64-2)
IARC Monograph 68 [1997], Supplement 7 [1987] (related to Silica, amorphous)

Descriptions of IARC and NTP Classifications

IARC 1: The agent is carcinogenic to humans. There is sufficient evidence that a causal relationship existed between exposure to the agent and human cancer.
IARC 2A: The agent is probably carcinogenic to humans. Generally includes agents for which there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
IARC 2B: The agent is possibly carcinogenic to humans. Generally includes agents for which there is limited evidence in humans and less than sufficient evidence in experimental animals.
IARC 3: The agent is not classifiable as to its carcinogenicity to humans. Generally includes agents for which there is inadequate evidence in humans and inadequate or limited evidence in experimental animals.
IARC 4: The agent is probably not carcinogenic to humans. Generally includes agents for which there is evidence suggesting lack of carcinogenicity in humans and in experimental animals.
NTP K: Known to be a human carcinogen.
NTP RA: Reasonably anticipated to be a human carcinogen.

* * * Section 12 - Ecological Information * * *

Ecotoxicity

A: General Product Information No information available for product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Cobalt (7440-48-4) 96 Hr LC50 Brachydanio rerio: >100 mg/L [static]

Nickel (7440-02-0)
96 Hr LC50 Oncorhynchus mykiss: 31.7 mg/L (adult); 96 Hr LC50 Pimephales promelas: 3.1 mg/L; 96 Hr LC50 Brachydanio rerio: >100 mg/L
72 Hr EC50 freshwater algae (4 species): 0.1 mg/L; 72 Hr EC50 Selenastrum capricornutum: 0.18 mg/L
96 Hr EC50 water flea: 510 µg/L
Iron (7439-89-6) 96 Hr LC50 Morone saxatilis: 13.6 mg/L [static]

Environmental Fate No information available for product.

* * * Section 13 - Disposal Considerations * * *

Disposal Instructions Reuse or recycle material whenever possible.
US EPA Waste Number & Descriptions
A: General Product Information
If reuse or recycle is not possible, then characterize in accordance with applicable regulations (40 CFR 261 or state equivalent in the U.S.) prior to disposal. TCLP testing is recommended for chromium.
B: Component Waste Numbers
RCRA waste codes other than described under Section A may apply depending on use of product. Refer to 40 CFR 261 or state equivalent in the U.S.

* * * Section 14 - Transportation Information * * *

Special Transportation

	PSN #1	PSN #2	PSN #3	PSN #4
Notes:	(1)			
UN NA Number:	-			
Proper Shipping Name:	Not regulated			
Hazard Class:	-			
Packing Group:	-			
RQ:	-			
Other - Tech Name:	-			
Other - Marine Pollutant:	-			

Notes:
(1) When "Not regulated," enter the proper freight classification, "MSDS Number," and "Product Name" on the shipping paperwork.

Canadian Controlled Products Regulation PIN:	Not regulated

* * * Section 15 - Regulatory Information * * *

US Federal Regulations
A: General Product Information
In reference to Title VI of the Clean Air Act of 1990, this material does not contain nor was it manufactured using ozone-depleting chemicals.
B: Component Analysis
This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).
Cobalt (7440-48-4)
SARA 313: 0.1 % de minimis concentration
Chromium (7440-47-3)
SARA 313: 1.0 % de minimis concentration
CERCLA: 5000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers);
2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers)

Nickel (7440-02-0)
SARA 313: 0.1 % de minimis concentration
CERCLA: 100 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers); 45.4 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers)

Vanadium (7440-62-2)
SARA 313: 1.0 % de minimis concentration (except when contained in an alloy)

Manganese (7439-96-5)
SARA 313: 1.0 % de minimis concentration

Aluminum (7429-90-5)
SARA 313: 1.0 % de minimis concentration (dust or fume only)

SARA 311/312 Physical and Health Hazard Categories:

Immediate (acute) Health Hazard: Yes, if particulates/fumes generated during processing
Delayed (chronic) Health Hazard: Yes, if particulates/fumes generated during processing
Fire Hazard: No
Sudden Release of Pressure: No
Reactive: No

State Regulations

A: General Product Information PENNSYLVANIA "Special Hazardous Substance": Chromium, Nickel
Chemical(s) known to the State of California to cause cancer: Chromium (hexavalent compounds), Cobalt metal powder, Nickel (metallic) and nickel compounds

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Cobalt	7440-48-4	Yes	No	Yes	Yes	Yes	Yes
Chromium	7440-47-3	Yes	No	Yes	Yes	Yes	Yes
Nickel	7440-02-0	Yes	No	Yes	Yes	Yes	Yes
Tungsten	7440-33-7	Yes	No	Yes	Yes	Yes	Yes
Iron	7439-89-6	Yes	No	No	No	No	No
Molybdenum	7439-98-7	Yes	No	Yes	Yes	Yes	Yes
Tantalum	7440-25-7	Yes	No	Yes	Yes	Yes	Yes
Vanadium	7440-62-2	Yes	No	Yes	No	Yes	Yes
Manganese	7439-96-5	Yes	No	Yes	Yes	Yes	Yes
Aluminum	7429-90-5	Yes	No	Yes	Yes	Yes	Yes
Silicon	7440-21-3	No	No	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
WARNING! This product contains a chemical known to the state of California to cause cancer.

Other Regulations

A: General Product Information Material meets the criteria for inclusion in WHMIS Class D2A.

B: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Cobalt	7440-48-4	0.1 %
Chromium	7440-47-3	0.1 %
Nickel	7440-02-0	0.1 %
Tungsten	7440-33-7	1 %
Molybdenum	7439-98-7	1 %
Tantalum	7440-25-7	1 %
Vanadium	7440-62-2	1 %
Manganese	7439-96-5	1 %
Aluminum	7429-90-5	1 %

C: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS	AUST.	MITI
Cobalt	7440-48-4	Yes	Yes	Yes	Yes	No
Chromium	7440-47-3	Yes	Yes	Yes	Yes	No
Nickel	7440-02-0	Yes	Yes	Yes	Yes	No
Tungsten	7440-33-7	Yes	Yes	Yes	Yes	No
Iron	7439-89-6	Yes	Yes	Yes	Yes	No
Molybdenum	7439-98-7	Yes	Yes	Yes	Yes	No
Tantalum	7440-25-7	Yes	Yes	Yes	Yes	No
Vanadium	7440-62-2	Yes	Yes	Yes	Yes	No
Manganese	7439-96-5	Yes	Yes	Yes	Yes	No
Aluminum	7429-90-5	Yes	Yes	Yes	Yes	No
Niobium	7440-03-1	Yes	Yes	Yes	Yes	No
Silicon	7440-21-3	Yes	Yes	Yes	Yes	No
Carbon	7440-44-0	Yes	Yes	Yes	Yes	No

Inventory information

MITI Inventory: Pure metals are not specifically listed by CAS or MITI number on the MITI Inventory. However, the class of compounds for each of these metals is listed.

* * * Section 16 - Other Information * * *

MSDS History

Original: June 18, 2001
Supersedes: October 11, 2004
Revised: April 22, 2008

MSDS Status

04/22/2008: Reviewed on a periodic basis in accordance with Alcoa policy. Changes in Sections 1, 2, 3, 4, 5, 8, 11, 12, 13, 14 & 15.
10/11/2004: Combined with Alcoa MSDS #'s 1148 and 1149. Changes in Sections 1, 2, 3, 8 and 15. Covers some products formerly on Howmet MSDSs 201, 202, 203, 204, 205, 206 and 504.
06/18/2001: New MSDS; covers some products formerly on Howmet MSDS 201.

Prepared By

Hazardous Materials Control Committee
Preparer: Stephanie Williams, 412-553-1479/Jon N. Peace, 412-553-2293

MSDS System Number

159242

Other Information

* Guide to Occupational Exposure Values-2007, Compiled by the American Conference of Governmental Industrial Hygienists (ACGIH).
* Documentation of the Threshold Limit Values and Biological Exposure Indices, Sixth Edition, 1991, Compiled by the American Conference of Governmental Industrial Hygienists, Inc. (ACGIH).
* NIOSH Pocket Guide to Chemical Hazards, U.S. Department of Health and Human Services, February 2004.
* Patty's Industrial Hygiene and Toxicology: Volume II: Toxicology, 4th ed., 1994, Patty, F. A.; edited by Clayton, G. D. and Clayton, F. E.: New York: John Wiley & Sons, Inc.
* expub, www.expub.com, Expert Publishing, LLC.

Key-Legend:

ACGIH	American Conference of Governmental Industrial Hygienists
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CPR	Cardio-pulmonary Resuscitation
DOT	Department of Transportation
DSL	Domestic Substances List (Canada)
EC	Effective Concentration
ED	Effective Dose
EINECS	European Inventory of Existing Commercial Chemical Substances
EPA	Environmental Protection Act
IARC	International Agency for Research on Cancer
LC_{50}	Lethal concentration (50 percent kill)
LC_{Lo}	Lowest published lethal concentration
LD_{50}	Lethal dose (50 percent kill)
LD_{Lo}	Lowest published lethal dose
LFL	Lower Flammable Limit
MITI	Ministry of International Trade & Industry
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NORM	Naturally Occurring Radioactive Materials
NTP	National Toxicology Program
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PIN	Product Identification Number
PSN	Proper Shipping Name
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
STEL	Short Term Exposure Limit
TCLP	Toxic Chemicals Leachate Program
TDG	Transportation of Dangerous Goods
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA	Time Weighted Average
UFL	Upper Flammable Limit
WHMIS	Workplace Hazardous Materials Information System
atm	atmosphere
cm	centimeter
g, gm	gram
in	inch
kg	kilogram
lb	pound
m	meter
mg	milligram
ml, ML	milliliter
mm	millimeter
mppcf	million particles per cubic foot
n.o.s.	not otherwise specified
ppb	parts per billion
ppm	parts per million
psia	pounds per square inch absolute
u	micron
ug	microgram

INFORMATION HEREIN IS GIVEN IN GOOD FAITH AS AUTHORITATIVE AND VALID; HOWEVER, NO WARRANTY, EXPRESS OR IMPLIED, CAN BE MADE.

This is the end of MSDS # 1147

COBALT-BASED ALLOYS

⚠ WARNING

Physical Hazards: Non-combustible as supplied. Dust and fines from processing may be ignitable. Explosion/fire hazards may be present when (1) molten metal is in contact with water or moisture or (2) heavily concentrated dust clouds are dispersed in air.

Health Hazards: Health effects generally expected in cases of overexposures:
EYES: Dust or fume from processing: Can cause irritation.
SKIN: Dust or fume from processing: Can cause irritation, sensitization and allergic contact dermatitis.
INHALATION: Health effects from mechanical processing (e.g., cutting, grinding): Can cause upper respiratory tract irritation. **Chronic overexposures:** Can cause asthma, respiratory sensitization, scarring of the lungs (pulmonary fibrosis), central nervous system damage, secondary Parkinson's disease and reproductive harm in males. Additional health effects from elevated temperature processing (e.g., welding, melting): **Acute overexposures:** Can cause nausea, fever, chills, shortness of breath and malaise (metal fume fever). **Chronic overexposures:** Can cause the accumulation of fluid in the lungs (pulmonary edema) and lung cancer.

WARNING: Cobalt metal powder, Chromium (hexavalent compounds) and nickel (metallic) and nickel compounds are chemicals known to the State of California to cause cancer (Proposition 65).

Precautions: Avoid generating dust. Use with adequate ventilation. Keep material dry. Use appropriate personal protective equipment (safety glasses/gloves) to avoid injury. Use appropriate NIOSH approved respiratory protection (N95) if concentrations exceed the permissible limits.

First Aid (dust or fume from processing): EYES: Flush eyes with plenty of water or saline for at least 15 minutes. Consult a physician. SKIN: Wash skin with soap and water for at least 15 minutes. Consult a physician if irritation persists. INHALATION: Remove to fresh air. If unconscious or severely injured, check for clear airway, breathing and presence of pulse. Perform CPR if there is no pulse or respiration. Consult a physician.

In case of fire: Use a Class D agent, fluxing salts, graphite or dry sand on dust or fine fires. Otherwise, use fire fighting methods and materials that are appropriate for surrounding fire. Do NOT use water around molten metal. This will react with the burning material.

Read Alcoa Material Safety Data Sheet No. 1147 for more information about use and disposal.

Emergency Phone: (412) 553-4001.

INGREDIENTS:	CAS No:	INGREDIENTS:	CAS No:
Cobalt	(7440-48-4)	Vanadium	(7440-62-2)
Chromium	(7440-47-3)	Manganese	(7439-96-5)
Nickel	(7440-02-0)	Aluminum	(7429-90-5)
Tungsten	(7440-33-7)	Niobium	(7440-03-1)
Iron	(7439-89-6)	Silicon	(7440-21-3)
Molybdenum	(7439-98-7)	Carbon	(7440-44-0)
Tantalum	(7440-25-7)		

Alcoa Inc.
201 Isabella Street, Pittsburgh, PA 15212-5858 USA

ALCOA

4/08 1147

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ERROR: undefined
OFFENDING COMMAND: get

STACK:

/quit
-dictionary-
-mark-
```

ISO9001:2000 Certified

Material Safety Data Sheet
Cyanide Standard, 1000 ppm

Section 1 - Chemical Product and Company Identification

MSDS Name:
Cyanide Standard, 1000 ppm
Catalog Numbers:
LC13545
Synonyms:
None
Company Identification:
LabChem Inc
200 William Pitt Way
Pittsburgh, PA 15238
Company Phone Number:
(412) 826-5230
Emergency Phone Number:
(800) 424-9300
CHEMTREC Phone Number:
(800) 424-9300

Section 2 – Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
1310-73-2	Sodium hydroxide	<0.16
151-50-8	Potassium cyanide	0.25

Section 3 - Hazards Identification

Emergency Overview

Appearance: *Clear, colorless solution*

Danger! May be fatal if inhaled, swallowed, or absorbed through the skin. Contact with acids liberates toxic gas. May cause long-term effects in the aquatic environment. May cause irritation to eyes, skin, respiratory, and gastrointestinal tracts.

Target Organs: *Central nervous system, lungs, eyes, thyroid, skin*

Potential Health Effects

Eye:
Causes eye irritation.
Skin:
Causes skin irritation. If absorbed through the skin, causes symptoms similar to those of ingestion.
Ingestion:
May be fatal if swallowed. Causes tissue anoxia, characterized by weakness, headache, dizziness, confusion, cyanosis, weak and irregular heartbeat, collapse, unconsciousness, convulsions and

death, sometimes within 1-15 minutes. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation:

Causes respiratory tract irritation. Inhalation of high concentrations of vapors may cause effects similar to those of ingestion.

Chronic:

Exposure to low levels over long periods of time may cause loss of appetite, headache, nausea, dizziness, upper respiratory tract irritation. Prolonged skin contact may cause dermatitis and "cyanide rash" characterized by itching. Prolonged eye contact may cause conjunctivitis and corrosion of cornea.

Section 4 - First Aid Measures

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until chemical is gone. Get medical aid at once.

Skin:

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid at once.

Ingestion:

SPEEDY ACTION IS CRITICAL. NOTIFY MEDICAL PERSONNEL IMMEDIATELY. Call a poison control center. If conscious, drink water, then induce vomiting with syrup of ipecac. If unconscious, immediately take victim to a physician and do NOT attempt to induce vomiting.

Inhalation:

SPEEDY ACTION IS CRITICAL. NOTIFY MEDICAL PERSONNEL IMMEDIATELY. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

Notes to Physician:

Exposure should be treated as a cyanide poisoning.

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Combustion generates toxic fumes.

Extinguishing Media:

Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Do NOT use carbon dioxide.

Autoignition Temperature:

Not applicable

Flash Point:

Not applicable

NFPA Rating:

CAS# 7732-18-5: Health- 0, Flammability- 0, Instability- 0.
CAS# 1310-73-2: Health- 3, Flammability- 0, Instability- 1.
CAS# 151-50-8: Health- 4, Flammability- 0, Instability- 1.

Explosion Limits:

Lower: n/a Upper: n/a

Material Safety Data Sheet
Cyanide Standard, 1000 ppm

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. Clean up spills immediately, observing precautions in the Protective Equipment section.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Use with adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Do not ingest or inhale. Wash clothing before reuse.

Storage:

Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from acids.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits:

Chemical Name:	ACGIH	NIOSH	OSHA
Water	none listed	none listed	none listed
Sodium hydroxide	2 mg/m3 Ceiling	10 mg/m3 IDLH	2 mg/m3 TWA
Potassium cyanide	5 mg/m3 Ceiling (as CN) (listed as Hydrogen cyanide and cyanide salts)	25 mg/m3 IDLH (as CN)	5 mg/m3 TWA (listed under Cyanide anion)

OSHA Vacated PELs:

None.

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Material Safety Data Sheet
Cyanide Standard, 1000 ppm

Section 9 - Physical and Chemical Properties

Physical State:	Clear liquid
Color:	Colorless
Odor:	Odorless to slight odor of bitter almond
pH:	Alkaline
Vapor Pressure:	Not available
Vapor Density:	Not available
Evaporation Rate:	Not available
Viscosity:	Not available
Boiling Point:	>100°C (>212°F)
Freezing/Melting Point:	<0°C (<32°F)
Decomposition Temperature:	Not available
Solubility in water:	Soluble
Specific Gravity/Density:	1.0
Molecular Formula:	Not applicable
Molecular Weight:	Not applicable

Section 10 - Stability and Reactivity

Chemical Stability:

Absorbs carbon dioxide from the air.

Conditions to Avoid:

Incompatible materials, excess heat.

Incompatibilities with Other Materials:

Acids, bases, aluminum, chlorates, permanganates, peroxides, zinc, aldehydes, metallic salts, chloral hydrate, iodine.

Hazardous Decomposition Products:

Hydrogen cyanide, nitrogen oxides, potassium oxides.

Hazardous Polymerization:

Has not been reported.

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.
CAS# 1310-73-2: WB4900000.
CAS# 151-50-8: TS8750000.

LD50/LC50:

CAS# 7732-18-5:
Oral, rat: LD50 = >90 mL/kg.

CAS# 1310-73-2:
Draize test, rabbit, eye: 50ug/24h Severe,
Draize test, rabbit, skin: 500mg/24h Severe

CAS# 151-50-8:
Oral, mouse: LD50 = 8500 ug/kg
Oral, rabbit: LD50 = 5 mg/kg
Oral, rat: LD50 = 5 mg/kg

Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 1310-73-2: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 151-50-8: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

Workers exposed to cyanide long-term experienced headaches, weakness, changes in taste and smell, irritation of the throat, vomiting, and effort dyspnea. Enlargement of the thyroid occurred in 50% of the workers.

Teratogenicity:

Animal studies have only shown harmful effects in the offspring of animals exposed to doses that also produced significant maternal toxicity.

Reproductive:

See actual entry in RTECS for complete information.

Mutagenicity:

See actual entry in RTECS for complete information.

Neurotoxicity:

No information found

Section 12 - Ecological Information

No information found

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated.
Hazard Class:
UN Number:
Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA:

CAS# 7732-18-5 is listed on the TSCA Inventory.
CAS# 1310-73-2 is listed on the TSCA Inventory.
CAS# 151-50-8 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ):

CAS# 1310-73-2: final RQ = 1000 pounds (454 kg)
CAS# 151-50-8: final RQ = 10 pounds (4.54 kg)

CERCLA/SARA Section 313:

None of the components are on this list.

OSHA - Highly Hazardous:

None of the chemicals in this product are considered highly hazardous by OSHA.

US State

State Right to Know:

Sodium hydroxide can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

Potassium cyanide can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

California Regulations:

None.

European/International Regulations

Canadian DSL/NDSL:

CAS# 7732-18-5 is listed on Canada's DSL List.
CAS# 1310-73-2 is listed on Canada's DSL List.
CAS# 151-50-8 is listed on Canada's DSL List.

Canada Ingredient Disclosure List:

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.
CAS# 1310-73-2 is listed on Canada's Ingredient Disclosure List.
CAS# 151-50-8 is not listed on Canada's Ingredient Disclosure List as Cyanides, inorganic salts.

Section 16 - Other Information

MSDS Creation Date: July 20, 1998
Revision Date: October 13, 2009

Information in this MSDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc. assumes no liability resulting from the use of this MSDS. The user must determine suitability of this information for his application.

Chem Service Inc.

MATERIAL SAFETY DATA SHEET

Last Revision Date: 1/11/2012

SECTION 1 - CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Catalog Number: M-CSM8080U99
Description: Pesticide Control Sample Mixture in Toluene
Product is: Mixture

Supplied by CHEM SERVICE, Inc. PO BOX 599, WEST CHESTER, PA 19381 (610)-692-3026
EMERGENCY PHONE: 1-610-692-3026

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

The following compounds are contained in this mixture at the stated concentrations:

CONC	ANALYTE	CAS
100ug/ml	4,4'-DDD	72-54-8
100ug/ml	4,4'-DDT	50-29-3
100ug/ml	b-Endosulfan	33213-65-9
100ug/ml	Endosulfan sulfate	1031-07-8
100ug/ml	Endrin	72-20-8
20ug/ml	Heptachlor	76-44-8
20ug/ml	BHC (alpha isomer)	319-84-6
20ug/ml	BHC (beta isomer)	319-85-7
20ug/ml	a-Endosulfan	959-98-8
20ug/ml	Heptachlor epoxide (Isomer B)	1024-57-3
20ug/ml	Aldrin	309-00-2
20ug/ml	Dieldrin	60-57-1
20ug/ml	4,4'-DDE	72-55-9

SECTION 3 - HAZARDS IDENTIFICATION

Contact lenses should not be worn in the laboratory. All chemicals should be considered hazardous - Avoid direct physical contact!

For the solvent: Toluene

Can cause eye irritation. Prolonged exposure may cause nausea/headache/dizziness and/or eye damage. May be harmful if inhaled. Dust and/or vapors can cause irritation to respiratory tract. Can be irritating to mucous membranes.

May be harmful if swallowed. Can cause gastro-intestinal disturbances. Can cause blood disorders. Exposure can cause liver damage. Exposure can cause kidney damage.

Can cause skin irritation. May be harmful if absorbed through the skin. May be rapidly absorbed through the skin with potential adverse health effects.

Can cause delayed adverse health effects. Can cause nervous system injury.

Avoid consumption of alcohol before and after handling of this compound because it will increase the toxicity of the compound. Narcotic at high concentrations.

This chemical is considered to cause DEVELOPMENTAL TOXICITY by the state of California.

SECTION 4 - FIRST AID MEASURES

An antidote is a substance intended to counteract the effect of a poison. It should be administered only by a physician or trained emergency personnel. Medical advice can be obtained from a POISON CONTROL CENTER.

For the solvent: Toluene

In case of contact: Flush eyes continuously with water for 15-20 minutes. Flush skin with water for 15-20 minutes. If no burns have occurred-use soap and water to cleanse skin. If inhaled remove patient to fresh air. Administer oxygen if patient is having difficulty breathing. If patient has stopped breathing administer artificial respirations. If patient is in cardiac arrest administer CPR. Continue life supporting measures until medical assistance has arrived. Contact Poison Control Center immediately if necessary.

Remove and wash contaminated clothing. If patient is exhibiting signs of shock - Keep warm and quiet.

If swallowed DO NOT induce vomiting. If taken internally give milk, milk of magnesia or egg whites beaten with water. Do not administer liquids or induce vomiting to an unconscious or convulsing person. If patient is vomiting-watch closely to make sure airway does not become obstructed by vomit.

Get medical attention if necessary.

SECTION 5 - FIRE AND EXPLOSION DATA

For the solvent: Toluene

Flash Point:	4.4°C
Extinguishing Media:	Carbon dioxide or dry chemical powder. DO NOT USE WATER!
Lower Explosion Limit:	1.2%
Upper Explosion Limit:	7%
Autoignition Temperature:	535°C
NFPA Scale:	0 - Least, 1 - Slight, 2 - Moderate, 3 - High, 4 - Severe
NFPA Hazard Rating:	Health: 2, Reactivity: 0, Flammability: 3

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spills or Leaks: Evacuate area. Wear appropriate OSHA regulated equipment. Ventilate area. Absorb on vermiculite or similar material. Sweep up and place in an appropriate container. Hold for disposal.

Wash contaminated surfaces to remove any residue.

Remove contaminated clothing and wash before reuse.

SECTION 7 - HANDLING AND STORAGE

Handling: This chemical should be handled only in a hood. Eye shields should be worn. Use appropriate OSHA/MSHA approved safety equipment. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Wash thoroughly after handling.

Storage: Store in a cool dry place. Store only with compatible chemicals.
Keep tightly closed.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

For the solvent: Toluene

OSHA PEL (TWA):	100 ppm (375mg/m3)
ACGIH TLV (TWA):	50ppm (147mg/m3)
ACGIH TLV (STEL):	Data Not Available

Personal Protective Equipment
Eyes: Wear Safety Glasses.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to minimize contact with skin.
Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 requirements must be followed whenever workplace conditions warrant the use of a respirator.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

For the solvent: Toluene

Color:	Colorless
Phase:	Liquid
Melting Point:	-95°C
Boiling Point:	110.6°C
Specific Gravity:	0.866g/mL @ 20°C
Vapor Density:	2.9
Vapor Preasure:	29.1hPa @ 20°C
Solubility in Water:	Very slightly soluble
Odor:	Aromatic
Evaporation Rate (Butyl acetate=1):	1.9
Molecular Weight:	92.14
Molecular Formula:	C7H8

SECTION 10 - STABILITY AND REACTIVITY

For the solvent: Toluene

Flammable. Readily absorbed and retained on clothing and/or shoes.
Volatile. Incompatible with strong oxidizing agents. Decomposition liberates toxic fumes.
Hygroscopic.

SECTION 11 - TOXICOLOGY INFORMATION

Since this solution contains a very low concentration of active component, the primary hazard is from the solvent.

The LD50 for the minor component:

ANALYTE	CAS	LD50	
4,4'-DDD	72-54-8	113	mg/kg
4,4'-DDT	50-29-3	87	mg/kg
b-Endosulfan	33213-65-9	240	mg/kg
Endosulfan sulfate	1031-07-8	18	mg/kg
Endrin	72-20-8	8	mg/kg
Heptachlor	76-44-8	40	mg/kg
BHC (alpha isomer)	319-84-6	177	mg/kg
BHC (beta isomer)	319-85-7	6,000	mg/kg
a-Endosulfan	959-98-8	76	mg/kg
Heptachlor epoxide (Isomer B)	1024-57-3	15	mg/kg
Aldrin	309-00-2	38	mg/kg
Dieldrin	60-57-1	38	mg/kg
4,4'-DDE	72-55-9	880	mg/kg

For the solvent: Toluene

RTECS:	XS5250000
Oral Rat or Mouse LD50:	5000.0 mg/kg
Dermal Rat or Mouse LD50:	N/A mg/kg
Rat or Mouse LC50 :	49 g/m3(4h)

Carcinogenicity

OSHA:	NO
IARC:	NO Details: 3

NTP:	NO
ACGIH:	NO Details: A4
NIOSH:	NO
Other:	NO

Property 65: This chemical is considered to cause DEVELOPMENTAL TOXICITY by the state of California.

Carcinogenicity

For the minor component:

4,4'-DDD	OSHA	No	NTP	No	IARC	Yes	NIOSH	No	ACGIH	No
4,4'-DDT	OSHA	No	NTP	Yes	IARC	Yes	NIOSH	Yes	ACGIH	No
Heptachlor	OSHA	No	NTP	No	IARC	Yes	NIOSH	Yes	ACGIH	Yes
BHC (alpha isomer)	OSHA	No	NTP	No	IARC	Yes	NIOSH	No	ACGIH	No
BHC (beta isomer)	OSHA	No	NTP	Yes	IARC	Yes	NIOSH	No	ACGIH	No
Heptachlor epoxide (Isomer B)	OSHA	No	NTP	No	IARC	Yes	NIOSH	No	ACGIH	No
Aldrin	OSHA	No	NTP	No	IARC	No	NIOSH	Yes	ACGIH	No
Dieldrin	OSHA	No	NTP	No	IARC	No	NIOSH	Yes	ACGIH	No
4,4'-DDE	OSHA	No	NTP	No	IARC	Yes	NIOSH	No	ACGIH	No

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Not Available
Environmental Fate: Not Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal: Dispose in accordance with Federal, State and Local regulations.

SECTION 14 - TRANSPORTATION INFORMATION

For the solvent: Toluene

UN Number:	UN1294
Class:	3
Packing Group:	II
Proper Shipping Name:	Toluene

SECTION 15 - REGULATORY INFORMATION

For the solvent: Toluene

European Labeling in Accordance with EC Directives

Hazard Symbols: F, Xn

Risk Phrases:
-R11: Highly Flammable.
-R20: Harmful by inhalation.

Safety Phrases:
-S16: Keep away from sources of ignition - No smoking.
-S25: Avoid contact with the eyes.
-S29: Do not empty into drains.
-S33: Take precautionary measures against static discharges.

SECTION 16 - OTHER INFORMATION

The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded MSDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.

Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.

This Material Safety Data Sheet (MSDS) is intended only for use with Chem Service, Inc. products and should not be relied on for use with materials from any other supplier even if the chemical name(s) on the product are identical! Whenever using an MSDS for a solution or mixture the user should refer to the MSDS for every component of the solution or mixture. Chem Service warrants that this MSDS is based upon the most current information available to Chem Service at the time it was last revised. THIS WARRANTY IS EXCLUSIVE, AND CHEM SERVICE, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. This MSDS is provided gratis and CHEM SERVICE, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR CONTINGENT DAMAGES.

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This product is furnished FOR LABORATORY USE ONLY!

Chem Service Inc. Material Safety Data Sheet

Last Revised On: **11/3/2011**

SECTION 1 - CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Catalog Number: S-10875M1
Description: 4,4'-DDE
Product is: Solution
Other Name(s): 1,1-Dichloro-2,2-bis[p-chlorophenyl]ethylene/p,p'-DDE/1,1 -(Dichloroethenylidene)bis[4-chlorobenzene]
Supplied by CHEM SERVICE, Inc. PO BOX 599, WEST CHESTER, PA 19381 (610)-692-3026
EMERGENCY PHONE: 1-610-692-3026

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS No.: 72-55-9
Description: 4,4'-DDE Solution
Concentration: 100ug/mL in Methanol
EINECS No.: 200-784-6
Hazard Symbols: XN

SECTION 3 - HAZARDS IDENTIFICATION

Contact lenses should not be worn in the laboratory. All chemicals should be considered hazardous - Avoid direct physical contact!

For the solvent: Methanol

Health Risks: May be fatal if absorbed through the skin! Repeated exposure to vapors and/or dust can cause eye injury. May be fatal if inhaled! Can cause cardiovascular system injury. Exposure can cause liver damage. Exposure can cause kidney damage. May be fatal or cause blindness if swallowed. Can cause gastro-intestinal disturbances. Can cause convulsions.

Property 65: Data Not Available

SECTION 4 - FIRST AID MEASURES

An antidote is a substance intended to counteract the effect of a poison. It should be administered only by a physician or trained emergency personnel. Medical advice can be obtained from a POISON CONTROL CENTER.

For the solvent: Methanol
First Aid: In case of contact: Flush eyes continuously with water for 15-20 minutes. Flush skin with water for 15-20 minutes. If patient has stopped breathing administer artificial respiration. If patient is in cardiac arrest administer CPR. Continue life supporting measures until medical assistance has arrived. Do not wear shoes or clothing until absolutely free of all chemical odors. Get medical attention if necessary. If no burns have occurred-use soap and water to cleanse skin. If inhaled remove patient to fresh air. Administer oxygen if patient is having difficulty breathing. If swallowed do not induce vomiting.

SECTION 5 - FIRE AND EXPLOSION DATA

For the solvent: Methanol

Flash Point: 11°C This is a flammable chemical.
Extinguishing Media: Carbon dioxide or dry chemical powder. DO NOT USE WATER!
Upper Explosion Limit: 36%
Lower Explosion Limit: 6.0%
Autoignition Temperature: 464°C

NFPA Scale: 0 - Least, 1 - Slight, 2 - Moderate, 3 - High, 4 - Severe
NFPA Hazard Rating: Health: 1. Reactivity: 0. Flammability: 3. Special: No Data.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spills or Leaks: Evacuate area. Wear appropriate OSHA regulated equipment. Ventilate area. Absorb on vermiculite or similar material. Sweep up and place in an appropriate container. Hold for disposal.

Wash contaminated surfaces to remove any residue.
Remove contaminated clothing and wash before reuse.

SECTION 7 - HANDLING AND STORAGE

Handling: This chemical should be handled only in a hood. Eye shields should be worn. Use appropriate OSHA/MSHA approved safety equipment. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Wash thoroughly after handling.

Storage:
Store in a cool dry place. Store only with compatible chemicals.
Keep tightly closed.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

For the solvent: Methanol

OSHA PEL (TWA):	200 ppm (260 mg/m3)
ACGIH TLV (TWA):	200 ppm (262 mg/m3)
ACGIH TLV (STEL):	Data Not Available

<u>Personal Protective Equipment</u>
Eyes: Wear Safety Glasses.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to minimize contact with skin.
Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 requirements must be followed whenever workplace conditions warrant a respirators use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

For the solvent: Methanol

Color:	Colorless
Phase:	Liquid
Melting Point:	-98°C
Boiling Point:	64.6°C
Specific Gravity:	0.791g/mL
Vapor Density:	1.11
Vapor Pressure:	130.3 hPa @ 20°C
Solubility in Water:	Completely miscible.
Odor:	Data Not Available

Evaporation Rate (Butyl acetate=1): Data Not Available

Molecular Weight: 32.05
Molecular Formula: CH_4O

SECTION 10 - STABILITY AND REACTIVITY
For the solvent: Methanol

Reacts with Acid halides and anhydrides. Flammable. Incompatible with strong acids. Incompatible with strong reducing agents. Incompatible with strong oxidizing agents. Decomposition liberates toxic fumes. Hygroscopic. Incompatible with active metals (e.g. Sodium).

SECTION 11 - TOXICOLOGY INFORMATION
The primary hazards for this solution are predominantly from the solvent.

For the solvent: Methanol

RTECS: PC1400000
Oral Rat or Mouse LD50: 5628 mg/kg
Dermal Rat or Mouse LD50: N/A mg/kg
Rat or Mouse LC50 : 64000 ppm/8H
Carcinogenicity
OSHA: NO
IARC: NO
NTP: NO
ACGIH: NO
NIOSH: NO
Other: NO

Property 65: Data Not Available

SECTION 12 - ECOLOGICAL INFORMATION
Ecotoxicity: Not Available
Environmental Fate: Not Available

SECTION 13 - DISPOSAL CONSIDERATIONS
Disposal: Dispose in accordance with Federal, State and Local regulations.

SECTION 14 - TRANSPORTATION INFORMATION
For the solvent: Methanol

UN Number: UN1230
Class: 3
Packing Group: II
Proper Shipping Name: Methanol

SECTION 15 - REGULATORY INFORMATION
For the solvent: Methanol

European Labeling in Accordance with EC Directives
Hazard Symbols: T F
Risk Phrases
R11 Highly Flammable.
R23/25 Toxic by inhalation and if swallowed.

Safety Phrases
S16 Keep away from sources of ignition- No smoking.
S2 Keep out of reach of children.

S24	Avoid contact with the skin.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S7	Keep container tightly closed

SECTION 16 - OTHER INFORMATION

The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded MSDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with
CHEM SERVICE, Inc.

Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.
This Material Safety Data Sheet (MSDS) is intended only for use with Chem Service, Inc. products and should not be relied on for use with materials from any other supplier even if the chemical name(s) on the product are identical! Whenever using an MSDS for a solution or mixture the user should refer to the MSDS for every component of the solution or mixture. Chem Service warrants that this MSDS is based upon the most current information available to Chem Service at the time it was last revised. THIS WARRANTY IS EXCLUSIVE, AND CHEM SERVICE, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. This MSDS is provided gratis and CHEM SERVICE, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR CONTINGENT DAMAGES.
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Safety data for dibenz(a,h)anthracene

Glossary of terms on this data sheet.

The information on this web page is provided to help you to work safely, but it is intended to be an overview of hazards, not a replacement for a full Material Safety Data Sheet (MSDS). MSDS forms can be downloaded from the web sites of many chemical suppliers.

General

Synonyms: 1,2:5,6-benzanthracene, 1,2:5,6-dibenzanthracene, dibenzo(a,h) anthracene, DBA, 1,2,5,6-DBA
Use: a common pollutant in smoke and used oils
Molecular formula: $C_{22}H_{14}$
CAS No: 53-70-3
EINECS No: 200-181-8
Annex I Index. No: 601-041-00-2

Physical data

Appearance: white to light yellow crystalline solid
Melting point: 266 - 267 C
Boiling point: 524 C
Vapour density:
Vapour pressure:
Density (g cm^{-3}): 1.28
Flash point:
Explosion limits:
Autoignition temperature:
Water solubility:

Stability

Stable. Combustible. Incompatible with strong oxidizing agents.

Toxicology

Harmful if swallowed or inhaled. Experimental carcinogen, tumorigen and neoplastigen. IARC probable human carcinogen.

Toxicity data

(The meaning of any toxicological abbreviations which appear in this section is given here.)

IVN-MUS LDLO 10 mg kg^{-1}

Risk phrases

(The meaning of any risk phrases which appear in this section is given here.)
R45 R50 R53.

Environmental information

Harmful in the environment - may cause long-term damage.

Transport information

(The meaning of any UN hazard codes which appear in this section is given here.)
Non-hazardous for air, sea and road freight.

Personal protection

Safety glasses, gloves, good ventilation. Handle as a possible carcinogen.

Safety phrases

(The meaning of any safety phrases which appear in this section is given here.)
S45 S53 S60 S61.

[Return to Physical & Theoretical Chemistry Lab. Safety home page.]

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MSDS SUMMARY SHEET

Manufacturer:
Name: PHILLIPS PETROLEUM COMPANY
Address 1:
Address 2:
Address 3:
CSZ: BARTLESVILLE **State:** OK **Zipcode:** 74004
Emergency phone: (800) 424-9300
Business phone: 800-762-0942

Product:

Ferndale MSDS#: 1354 **Version # :** 6
Manufacturer MSDS#: 0041
Current? : 2002
Name:

NO. 2 DIESEL FUEL

Synonyms:

CARB **Diesel** TF3
CARB **Diesel**
CARB **Diesel** 10%
Diesel Fuel Oil
EPA Low Sulfur **Diesel** Fuel
EPA Low Sulfur **Diesel** Fuel – Dyed
EPA Off Road High Sulfur **Diesel –** Dyed
Fuel Oil No. 2 – CAS # 68476-30-2
No. 2 **Diesel** Fuel Oil
No. 2 Fuel Oil – Non Hiway – Dyed
No. 2 High Sulfur **Diesel** – Dyed
No. 2 Low Sulfur **Diesel** - Dyed
No. 2 Low Sulfur **Diesel** - Undyed
Crude column 3rd IR
Crude column 3rd side cut
Atmospheric tower 3rd side cut
Ultra Low Sulfur **Diesel** No. 2
Finished **Diesel**
DHT Reactor Feed
Straight Run **Diesel**
Diesel
Middle Distillate

Product/Catalog Numbers:
MSDS Date: 01/01/2002 **(received:** 01/14/2002**)**

NFPA codes:
Health: 0 **Flammability:** 2 **Reactivity:** 0

MATERIAL SAFETY DATA SHEET
No. 2 Diesel Fuel

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: No. 2 Diesel Fuel
Product Code: Multiple
SAP Code:
Synonyms:
1354
CARB Diesel TF3
CARB Diesel
CARB Diesel 10%
Diesel Fuel Oil
EPA Low Sulfur Diesel Fuel
EPA Low Sulfur Diesel Fuel – Dyed
EPA Off Road High Sulfur Diesel – Dyed
Fuel Oil No. 2 – CAS # 68476-30-2
No. 2 Diesel Fuel Oil
No. 2 Fuel Oil – Non Hiway – Dyed
No. 2 High Sulfur Diesel – Dyed
No. 2 Low Sulfur Diesel - Dyed
No. 2 Low Sulfur Diesel – Undyed
No. 2 Ultra Low Sulfur Diesel – Dyed
No. 2 Ultra Low Sulfur Diesel - Undyed
Intended Use: Fuel
Chemical Family:
Responsible Party: Phillip's Petroleum Company
Bartlesville, Oklahoma 74004
For Additional MSDSs: 800-762-0942
Technical Information:

The intended use of this product is indicated above. If any additional use is known, please contact us at the Technical Information number listed.

EMERGENCY OVERVIEW

24 Hour Emergency Telephone Numbers:
Spill, Leak, Fire or Accident
Call CHEMTREC
North America: (800) 424-9300
Others: (703) 527-3887 (collect)

California Poison Control System: 800-356-3120

Health Hazards/Precautionary Measures: Causes severe skin irritation. Aspiration hazard if swallowed. Can enter lungs and cause damage. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Wash thoroughly after handling.

Physical Hazards/Precautionary Measures: Flammable liquid and vapor. Keep away from heat, sparks, flames, static electricity or other sources of ignition.

Appearance: Straw-colored to dyed red
Physical Form: Liquid
Odor: Characteristic petroleum

HFPA Hazard Class:
Health: 0 (Least)
Flammability: 2 (Moderate)
Reactivity: 0 (Least)

HMIS Hazard Class
Not Evaluated

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	% VOLUME	EXPOSURE GUIDELINE		
		Limits	Agency	Type
Diesel Fuel No. 2 CAS# 68476-34-6	100	100* mg/m3	ACGIH	TWA-SKIN
Naphthalene CAS# 91-20-3	<1	10ppm	ACGIH	TWA
		15ppm	ACGIH	STEL
		10ppm	OSHA	TWA
		250ppm	NIOSH	IDLH

All components are listed on the TSCA inventory

Tosco Low Sulfur No. 2 Diesel meets the specifications of 40 CFR 60.41 for low sulfur diesel fuel.

Note: State, local or other agencies or advisory groups may have established more stringent limits.
Consult an industrial hygienist or similar professional, or your local agencies, for further information.

*Proposed ACGIH (1999)

3. HAZARDS IDENTIFICATION

Potential Health Effects:

Eye: Contact may cause mild eye irritation including stinging, watering, and redness.

Skin: Severe skin irritant. Contact may cause redness, itching, burning, and severe skin damage. Prolonged or repeated contact can worsen irritation by causing drying and cracking of the skin, leading to dermatitis (inflammation). Not actually toxic by skin absorption, but prolonged or repeated skin contact may be harmful (see Section 11).

Inhalation (Breathing): No information available. Studies by other exposure routes suggest a low degree of toxicity by inhalation.

Ingestion (Swallowing): Low degree of toxicity by ingestion. ASPIRATION HAZARD – This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

Signs and Symptoms: Effects of overexposure may include irritation of the nose and throat, irritation of the digestive tract, nausea, diarrhea and transient excitation followed by signs of nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue).

Cancer: Possible skin cancer hazard (see Sections 11 and 14).

Target Organs: There is limited evidence from animal studies that overexposure may cause injury to the kidney (see Section 11).

Developmental: Inadequate data available for this material.

Pre-Existing Medical Conditions: Conditions aggravated by exposure may include skin disorders and kidney disorders.

4. FIRST AID MEASURES

Eye: If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.

Skin: Immediately remove contaminated shoes, clothing, and constrictive jewelry and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek immediate medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops, seek immediate medical attention.

Inhalation (Breathing): If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion (Swallowing): Aspiration hazard; Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is drowsy or unconscious and vomiting, place on the left side with the head down. If possible, do not leave victim unattended and observe closely for adequacy of breathing. Seek medical attention.

5. FIRE FIGHTING MEASURES

Flammable Properties:

Flash Point: >125°F/>52°
OSHA Flammability Class: Combustible liquid
LEL %: 0.3 / UEL %; 10.0
Autoignition Temperature: 500°F/260°C

Unusual Fire & Explosion Hazards: This material is flammable and can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Vapors may travel considerable distances to a source of ignition where they can ignite, flash back, or explode. May create vapor/air explosion hazard indoors, in confined spaces, outdoors, or in sewers. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can rupture in the heat of a fire.

Extinguishing Media: Dry chemical, carbon dioxide, or foam is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Water may be ineffective for extinguishment, unless used under favorable conditions by experienced fire fighters.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

6. ACCIDENTAL RELEASE MEASURES

Flammable. Keep all sources of ignition and hot metal surfaces away from spill/release. The use of explosion-proof equipment is recommended.

Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8).

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Use foam on spills to minimize vapors (see Section 5). Spilled material may be absorbed into an appropriate material.

Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center (phone number 800-424-8802).

7. HANDLING AND STORAGE

Handling: Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel to another. Can accumulate static charge by flow or agitation. Can be ignited by static discharged. The use of explosion-proof equipment is recommended and may be required (see appropriate fire codes). Refer to NFPA-704 and/or API RP 2003 for specific bonding/grounding requirements.

Do not enter confined spaces such as tanks or pits without following proper entry procedures such ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Sections 2 and 8).

Do not wear contaminated clothing or shoes. Keep contaminated clothing away from sources of ignition such as sparks or open flames. Use good personal hygiene practices.

High pressure injection of hydrocarbon fuels, hydraulic oils or greases under the skin may have serious consequences even though no symptoms or injury may be apparent. This can happen accidentally when using high pressure equipment such as high pressure grease guns, fuel injection apparatus or from pinhole leaks in tubing or high pressure hydraulic oil equipment.

“Empty” containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. “Empty” drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSIZ49.1 and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

Storage: Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post area “No Smoking or Open Flame.” Store only in approved containers. Keep away from incompatible material (see Section 10). Protect container(s) against physical damage. Outdoor or detached storage is preferred. Indoor storage should meet OSHA standards and appropriate fire codes.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentration below the established exposure limits (see Section 2), additional ventilation or exhaust systems may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used (see appropriate electrical codes).

Personal Protective Equipment (PPE):

Respiratory: A NIOSH certified air purifying respirator with an organic vapor cartridge maybe used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2).

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a positive pressure air supplied respirator if there is a potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrants a respirator's use.

Skin: The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation and skin damage (see glove manufacturer literature for information on permeability). Depending on conditions of use, apron and/or arm covers may be necessary.

Eyes/Face: Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.

Other Protective Equipment: Eye wash and quick-drench shower facilities should be available in the work area. Thoroughly clean shoes and wash contaminated clothing before reuse. It is recommended that impervious clothing be worn when skin contact is possible.

9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1atm).

Appearance: Straw-colored to dyed red
Physical State: Liquid
Odor: Characteristic petroleum
pH: unavailable
Vapor Pressure (mm Hg): 0.40
Vapor Densisty (air=1):>3
Boiling Point/Range: 320-700°F /160-371°C
Freezing/Melting Point: No Data
Solubility in Water: Negligible
Specific Gravity: 0.81-0.88 @ 60°F
Percent Volatile: Negligible
Evaporation Rate (nBuAc=1): <1
Viscosity: 32.6-40.0 SUS @ 100°F
Bulk Density: 7.08 lbs/gal
Flash Point: >125°F / >52°C
Flammable/Expolsive Limits (%): LEL: 0.3 / UEL: 10.0

10. STABILITY AND REACTIVITY

Stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Flammable liquid and vapor. Vapor can cause flash fire.

Conditions To Avoid: Avoid all possible sources of ignition (see Sections 5 and 7).

Materials to Avoid (Incompatible Materials): Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc.

Hazardous Decomposition Products: The use of hydrocarbon fuels in an area without adequate ventilation may result in hazardous levels of combustion products (e.g., oxides of carbon, sulfur and nitrogen, benzene and other hydrocarbons) and/or dangerously low oxygen levels. ACGIH has included a TLV of 0.05 mg/m3 TWA for diesel exhaust particulate on its 1999 Notice of Intended Changes. See Section 11 for additional information on hazards of engine exhaust.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Diesel Fuel No. 2 (CAS# 68476-34-6)

Carcinogenicity: Chronic dermal application of certain middle distillate streams contained in diesel fuel No. 2 resulted in an increased incidence of skin tumors in mice. This material has not been identified as carcinogen by NTP, IARC, or OSHA. Diesel exhaust is a probable cancer hazard based on tests with laboratory animals.

Target Organ(s): Limited evidence of renal impairment has been noted from a few case reports involving excessive exposure to diesel fuel No. 2.

Naphthalene (CAS# 91-20-3)

Carcinogenicity: Naphthalene has been evaluated in two year inhalation studies in both rats and mice. The National Toxicology Program (NTP) concluded that there is clear evidence of carcinogenicity in male and female rats based on increased incidences of respiratory epithelial adenomas and olfactory epithelial neuroblastomas of the nose. NTP found some evidence of carcinogenicity in female mice (alveolar adenomas) and no evidence of carcinogenicity in male mice. Naphthalene has not been identified as a carcinogen by IARC or OSHA.

12. ECOLOGICAL INFORMATION

Not evaluated at this time

13. DISPOSAL CONSIDERATIONS

This material, if discarded as produced, would be a RCRA “characteristic” hazardous waste due to the characteristic(s) of ignitability (D001) and benzene (D018). If the material is spilled to soil or water, characteristic testing of the contaminated materials is recommended. Further, this material, once it becomes a waste, is subject to the land disposal restrictions in 40 CFR 268.40 and may require treatment prior to disposal to meet specific standards. Consult state and local regulations to determine whether they are more stringent then the federal requirements.

Container contents should be completely used and containers should be emptied prior to discard. Container ?insate? could be considered a RCRA hazardous waste and must be disposed of with care and in compliance with federal, state and local regulations. Large empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller containers, consult with state and local regulations and disposal authorities.

14. TRANSPORT INFORMATION

DOT Shipping Description: Diesel Fuel, NA1983
Non-Bulk Package Marking: Diesel Fuel, 3, NA 1993, III

15. REGULATORY INFORMATION

EPA SARA 311/312 (Title III Hazard Categories):

Acute Health:	Yes
Chronic Health:	Yes
Fire Hazard:	Yes
Pressure Hazard:	No
Reactive Hazard:	No

SARA 313 and 40 CFR 372:
This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372:

Component	CAS Number	Weight %
-- None known --		

California Proposition 65:
Warning: This material contains the following chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

Component	Effect
Benzene	Cancer, Developmental and Reproductive Toxicant
Toluene	Developmental Toxicant

Diesel engine exhaust, while not a component of this material, is on the Proposition 65 list of chemicals known to the State of California to cause cancer.

Carcinogen Identification:
This material has not been identified as a carcinogen by NTP, IARC, or OSHA. See Section 11 for carcinogenicity information of individual components, if any. Diesel exhaust is a probable cancer hazard based on tests in laboratory animals. It has been identified as carcinogen by IARC.

EPA (CERCLA Reportable Quantity: None

16. OTHER INFORMATION

Issue Date: 01/01/02
Previous Issue Date: 05/15/01
Product Code: Multiple
Revised Sections: None
Previous Product Code: Multiple
MSDS Number: 0041

Disclaimer of Expressed and Implied Warranties:

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Tosco Refining Company ***Ferndale Refinery***

UltraLow Sulfur Diesel Product Specification

Ferndale Product Code:34380xx (5) Product Code: ULSD2

(COMETS)

Specification	Unit	Limit	Test Procedure	Typical
Appearance				
Water & Sediment	Vol %	0.05 Max	D 2709	
Color	Number	3.0 Max	D 1500	
Haze Rating	Rating	2 Max	D 4176	
Composition				
Carbon Residue (Ramsbottom)	Wt %	0.35 Max	D 524, D 189	
Volatility				
90% Recovered	Deg; F	540 Min	D 86	
	Deg; F	640 Min	D 86	
Flash Point	Deg; F	125 Min (1)	D 93	130 F
Gravity	API	30 Min	D 287, D4052	
Fluidity				
Pour Point	Deg; F	See Season Table (6)	D 97	
Cloud Point	Deg; F	See Season Table (6)	D 2500	10 F
Viscosity @ 104F	cSt	1.9 Min	D 445	
	cSt	4.1 Max	D 445	
Lubricity, SLBOCLE	grams	3100 Min	D 6078	3300gm
Lubricity, HFRR	mm	.45	D 6079	
Combustion				
Cetane Index or Cetane Number (3,4)	Number	40.0 Min	D 976, D613	47.0
Corrosion				
Copper Strip, 3hr @ 50 deg C	Number	3 Max (2)	D 130	
Aromatics (4)	Vol %	35 Max	D 1319	25 %
Contaminants				
Total Sulfur	PPM	30 Max	D 2622, D4294	15-20ppm
Water & Sediment	Vol %	0.05 Max	D 1796	
Ash	Wt %	0.01 Max	D 482	
Additives				
Cetane Improver	Lb/MBbl	675 Max		
Dye		Undyed		

1. Minimum release specification is 125 deg. F. The refinery should target 135 deg. F.
2. Test result reported as a number and letter (e.g. 1a). Any letter is allowable as long as the number meets the spec shown.
3. Either specification must be met.
4. Either cetane index minimum or aromatics maximum must be met.
5. Winter cloud and pour specifications may be relaxed to the summer specifications by agreement with the customer.
6. Season Table

Month	Product Code	Pour Point	Cloud Point
Jan, Feb, Nov, Dec	WI	0 max (5)	14 max (5)
Mar - Oct	SU	15 max	24 max

MATERIAL SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

1. PRODUCT IDENTIFICATION

CHEMICAL NAME; CLASS: NON-FLAMMABLE GAS MIXTURE

Containing One or More of the Following Components in a Nitrogen Balance Gas:Oxygen, 0.0015-23.5%;Methane, 0.0005-2.5%;Carbon Monoxide, 0.0005-1.0%; Hydrogen Sulfide, 0.001-0.025%

SYNONYMS: Not Applicable
CHEMICAL FAMILY NAME: Not Applicable
FORMULA: Not Applicable
Document Number: 50018

Note: The Material Safety Data Sheet is for this gas mixture supplied in cylinders with 33 cubic feet (935 liters) or less gas capacity (DOT - 39 cylinders). This MSDS has been developed for various gas mixtures with the composition of components within the ranges listed in Section 2 (Composition and Information on Ingredients). Refer to the product label for information on the actual composition of the product.

PRODUCT USE:	Calibration of Monitoring and Research Equipment
SUPPLIER/MANUFACTURER'S NAME:	CALGAZ
ADDRESS:	821 Chesapeake Drive Cambridge, MD 21613
EMERGENCY PHONE:	CHEMTREC: 1-800-424-9300
BUSINESS PHONE:	1-410-228-6400
General MSDS Information	1-713/868-0440
Fax on Demand:	1-800/231-1366

2. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	mole %	EXPOSURE LIMITS IN AIR					
			ACGIH		OSHA		NIOSH	OTHER
			TLV ppm	STEL ppm	PEL ppm	STEL ppm	IDLH ppm	ppm
Oxygen	7782-44-7	0.0015 - 23.5%	There are no specific exposure limits for Oxygen. Oxygen levels should be maintained above 19.5%.					
Methane	74-82-8	0.0005 - 2.5%	There are no specific exposure limits for Methane. Methane is a simple asphyxiant (SA). Oxygen levels should be maintained above 19.5%.					
Hydrogen Sulfide	7783-06-4	0.001- 0.025 %	10 (NIC = 5)	15	10 (Vacated 1989 PEL)	20 (ceiling); 50 (ceiling, 10 min. peak once per 8-hour shift 15 (vacated 1989 PEL)	100	NIOSH REL: STEL = 10 (ceiling) 10 minutes DFG-MAKs: TWA = 10 PEAK = 2•MAK, 10 min., momentary value
Carbon Monoxide	630-08-0	0.0005 - 1.0%	25	NE	50 35 (Vacated 1989 PEL)	200 [ceiling] (Vacated 1989 PEL)	1200	NIOSH RELS: TWA = 35 STEL = 200 (ceiling) DFG MAKs: TWA = 30 PEAK = 2•MAK, 15 min., average value DFG MAK Pregnancy Risk Classification: B
Nitrogen	7727-37-9	Balance	There are no specific exposure limits for Nitrogen. Nitrogen is a simple asphyxiant (SA). Oxygen levels should be maintained above 19.5%.					

NE = Not Established. NIC = Notice of Intended Change See Section 16 for Definitions of Terms Used.
NOTE (1): ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-1998 format. This gas mixture has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This gas mixture is a colorless gas which has a rotten-egg odor (due to the presence of Hydrogen Sulfide). The odor cannot be relied on as an adequate warning of the presence of this gas mixture, because olfactory fatigue occurs after over-exposure to Hydrogen Sulfide. Hydrogen Sulfide and Carbon Monoxide (another component of this gas mixture) are toxic to humans in relatively low concentrations. Over-exposure to this gas mixture can cause skin or eye irritation, nausea, dizziness, headaches, collapse, unconsciousness, coma, and death. Additionally, releases of this gas mixture may produce oxygen-deficient atmospheres (especially in small confined spaces or other poorly-ventilated environments); individuals in such atmospheres may be asphyxiated.

SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE: The most significant route of over-exposure for this gas mixture is by inhalation.

INHALATION: Due to the small size of an individual cylinder of this gas mixture, no unusual health effects from over-exposure to the product are anticipated under routine circumstances of use. A potential health hazard associated with this gas mixture is the potential of inhalation of Hydrogen Sulfide, a component of this gas mixture. Such over-exposures may occur if this gas mixture is used in a confined space or other poorly-ventilated area. Over-exposures to Hydrogen Sulfide can cause dizziness, headache, and nausea. Over-exposure to this gas could result in respiratory arrest, coma, or unconsciousness, due to the presence of Hydrogen Sulfide. Continuous inhalation of low concentrations of Hydrogen Sulfide may cause olfactory fatigue, so that the odor is no longer an effective warning of the presence of this gas. A summary of exposure concentrations and observed effects are as follows:

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM		
HEALTH HAZARD	(BLUE)	3
FLAMMABILITY HAZARD	(RED)	0
PHYSICAL HAZARD	(YELLOW)	0
PROTECTIVE EQUIPMENT		
EYES RESPIRATORY HANDS BODY		
See Section 8		

For Routine Industrial Use and Handling Applications

CONCENTRATION OF HYDROGEN SULFIDE	OBSERVED EFFECT
0.3-30 ppm	Odor is unpleasant.
50 ppm	Eye irritation. Dryness and irritation of nose, throat.
Slightly higher than 50 ppm	Irritation of the respiratory system.
100-150 ppm	Temporary loss of smell.
200-250 ppm	Headache, vomiting nausea. Prolonged exposure may lead to lung damage. Exposures of 4-8 hours can be fatal.
300-500	Swifter onset of symptoms. Death occurs in 1-4 hours.
500 ppm	Headache, excitement, staggering, and stomach ache after brief exposure. Death occurs within 0.5 - 1 hour of exposure.
> 600 ppm	Rapid onset of unconsciousness, coma, death.
> 1000 ppm	Immediate respiratory arrest.

NOTE: This gas mixture contains a maximum of 250 ppm Hydrogen Sulfide. The higher concentration values here are presented to delineate the complete health effects which have been observed for humans after exposure to Hydrogen Sulfide.

3. HAZARD IDENTIFICATION (continued)

Inhalation over-exposures to atmospheres containing more than the Threshold Limit Value of Carbon Monoxide (25 ppm), another component of this gas mixture, can result in serious health consequences. Carbon Monoxide is classified as a chemical asphyxiant, producing a toxic action by combining with the hemoglobin of the blood and replacing the available oxygen. Through this replacement, the body is deprived of the required oxygen, and asphyxiation occurs. Since the affinity of Carbon Monoxide for hemoglobin is about 200-300 times that of oxygen, only a small amount of Carbon Monoxide will cause a toxic reaction to occur. Carbon Monoxide exposures in excess of 50 ppm will produce symptoms of poisoning if breathed for a sufficiently long time. If this gas mixture is released in a small, poorly ventilated area (i.e. an enclosed or confined space), symptoms which may develop include the following:

CONCENTRATION OF CARBON MONOXIDE	OBSERVED EFFECT
All exposure levels:	Over-exposure to Carbon Monoxide can be indicated by the lips and fingernails turning bright red.
200 ppm:	Slight symptoms (i.e. headache) after several hours of exposure.
400 ppm:	Headache and discomfort experienced within 2-3 hours of exposure.
1,000 -2000 ppm:	Within 30 minutes, slight palpitations of the heart occurs. Within 1.5 hours, there is a tendency to stagger.
200-2500 ppm:	Within 2 hours, there is mental confusion, headaches, and nausea. Unconsciousness within 30 minutes.
>2500 ppm:	Potential for collapse and death before warning symptoms.

Additionally, if mixtures of this gas mixture contain less than 19.5% Oxygen and are released in a small, poorly ventilated area (i.e. an enclosed or confined space), an oxygen-deficient environment may occur. Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of over-exposure, death may occur. The following effects associated with various levels of oxygen are as follows:

CONCENTRATION OF OXYGEN	OBSERVED EFFECT
12-16% Oxygen:	Breathing and pulse rate increased, muscular coordination slightly disturbed.
10-14% Oxygen:	Emotional upset, abnormal fatigue, disturbed respiration.
6-10% Oxygen:	Nausea, vomiting, collapse, or loss of consciousness.
Below 6%:	Convulsive movements, possible respiratory collapse, and death.

SKIN and EYE CONTACT: Hydrogen Sulfide, a component of this gas mixture, may be irritating to the skin. Inflammation and irritation of the eyes can occur at very low airborne concentration of Hydrogen Sulfide (less than 10 ppm). Exposure over several hours may result in “gas eyes” or “sore eyes” with symptoms of scratchiness, irritation, tearing and burning. Above 50 ppm of Hydrogen Sulfide, there is an intense tearing, blurring of vision, and pain when looking at light. Over-exposed individuals may see rings around bright lights. Most symptoms disappear when exposure ceases. However, in serious cases, the eye can be permanently damaged.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms. Over-exposure to this gas mixture may cause the following health effects:

ACUTE: Due to the small size of the individual cylinder of this gas mixture, no unusual health effects from exposure to the product are anticipated under routine circumstances of use. However the Hydrogen Sulfide and Carbon Monoxide components of this gas mixture are toxic to humans. Over-exposure to this gas mixture can cause nausea, dizziness, headaches, collapse, unconsciousness, coma, and death. Due to the presence of Hydrogen Sulfide, over-exposures to this gas mixture can also irritate the skin and eyes; severe eye contamination can result in blindness.

CHRONIC: Severe over-exposures to the Hydrogen Sulfide component of this gas mixture, which do not result in death, may cause long-term symptoms such as memory loss, paralysis of facial muscles, or nerve tissue damage. In serious cases of over-exposure, the eyes can be permanently damaged. Skin disorders and respiratory conditions may be aggravated by repeated over-exposures to this gas product. Refer to Section 11 (Toxicology Information) for additional information on the components of this gas mixture. Chronic exposure to oxygen-deficient atmospheres (below 18% oxygen in air) may affect the heart and nervous system.

TARGET ORGANS: ACUTE: Respiratory system, blood system, central nervous system effects, cardiovascular system, skin, eyes. CHRONIC: Neurological system, reproductive system, eyes.

4. FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO THIS GAS MIXTURE WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus must be worn. Victim(s) who experience any adverse effect after over-exposure to this gas mixture must be taken for medical attention. Rescuers should be taken for medical attention if necessary. Take a copy of the label and the MSDS to physician or other health professional with victim(s).

No unusual health effects are anticipated after exposure to this gas mixture, due to the small cylinder size. If any adverse symptom develops after over-exposure to this gas mixture, remove victim(s) to fresh air as quickly as possible. Only trained personnel should administer supplemental oxygen and/or cardio-pulmonary resuscitation if necessary.

SKIN EXPOSURE: If irritation of the skin develops after exposure to this gas mixture, immediately begin decontamination with running water. Minimum flushing is for 15 minutes. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Victim must seek immediate medical attention.

EYE EXPOSURE: If irritation of the eye develops after exposure to this gas mixture, open victim's eyes while under gentle running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Seek medical assistance immediately, preferably an ophthalmologist.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing respiratory conditions may be aggravated by over-exposure to this gas mixture. Carbon Monoxide, a component of this gas mixture, can aggravate some diseases of the cardiovascular system, such as coronary artery disease and angina pectoris. Because of the presence of Hydrogen Sulfide, eye disorders or skin problems may be aggravated by over-exposure to this gas mixture.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate over-exposure. Hyperbaric oxygen is the most efficient antidote to Carbon Monoxide poisoning, the optimum range being 2-2.5 atm. A special mask, or, preferably, a compression chamber to utilize oxygen at these pressures is required. Avoid administering stimulant drugs. Be observant for initial signs of pulmonary edema in the event of severe inhalation over-exposures.

5. FIRE-FIGHTING MEASURES

FLASH POINT: Not applicable.

AUTOIGNITION TEMPERATURE: Not applicable.

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL): Not applicable.

Upper (UEL): Not applicable.

NFPA RATING

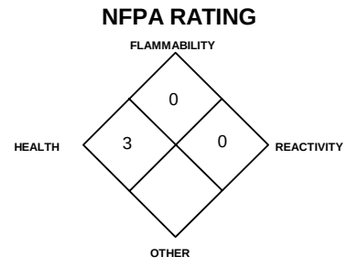

FIRE EXTINGUISHING MATERIALS: Non-flammable gas mixture. Use extinguishing media appropriate for surrounding fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This gas mixture contains toxic gases, Hydrogen Sulfide and Carbon Monoxide, and presents an health hazard to firefighters. This gas mixture is not flammable; however, containers, when involved in fire, may rupture or burst in the heat of the fire.

Explosion Sensitivity to Mechanical Impact: Not Sensitive.

Explosion Sensitivity to Static Discharge: Not Sensitive.

SPECIAL FIRE-FIGHTING PROCEDURES: Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment.

6. ACCIDENTAL RELEASE MEASURES

LEAK RESPONSE: Due to the small size and content of the cylinder, an accidental release of this gas mixture presents significantly less risk of over-exposure to Hydrogen Sulfide and Carbon Monoxide, the toxic components of this gas mixture, and other safety hazards related to the remaining components of this gas mixture, than a similar release from a larger cylinder. However, as with any chemical release, extreme caution must be used during emergency response procedures. In the event of a release in which the atmosphere is unknown, and in which other chemicals are potentially involved, evacuate immediate area. Such releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a leak, clear the affected area, protect people, and respond with trained personnel. For emergency disposal,

6. ACCIDENTAL RELEASE MEASURES (continued)

secure the cylinder and slowly discharge the gas to the atmosphere in a well-ventilated area or outdoors. Allow the gas mixture to dissipate. If necessary, monitor the surrounding area (and the original area of the release) for Hydrogen Sulfide, Carbon Monoxide, and Oxygen. Hydrogen Sulfide and Carbon Monoxide level must be below exposure level listed in Section 2 (Composition and Information on Ingredients) and Oxygen levels must be above 19.5% before non-emergency personnel are allowed to re-enter area. If leaking incidentally from the cylinder, contact your supplier.

7. HANDLING and USE

WORK PRACTICES AND HYGIENE PRACTICES: Be aware of any signs of dizziness or fatigue, especially if work is done in a poorly ventilated area; exposures to fatal concentrations of this gas mixture could occur without any significant warning symptoms, due to olfactory fatigue or oxygen deficiency. Do not attempt to repair, adjust, or in any other way modify cylinders containing a gas mixture with Hydrogen Sulfide or Carbon Monoxide. If there is a malfunction or another type of operational problem, contact nearest distributor immediately. Eye wash stations/safety showers should be near areas where this gas mixture is used or stored. All work operations should be monitored in such a way that emergency personnel can be immediately contacted in the event of a release. All work practices should minimize releases of Hydrogen Sulfide and Carbon Monoxide-containing gas mixtures.

STORAGE AND HANDLING PRACTICES: Cylinders should be firmly secured to prevent falling or being knocked-over. Cylinders must be protected from the environment, and preferably kept at room temperature (approximately 21°C (70°F). Cylinders should be stored in dry, well-ventilated areas, away from sources of heat, ignition, and direct sunlight. Protect cylinders against physical damage. Full and empty cylinders should be segregated. Use a first-in, first-out inventory system to prevent full containers from being stored for long periods of time. These cylinders are not refillable. **WARNING! Do not refill DOT 39 cylinders. To do so may cause personal injury or property damage.**

SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS: WARNING! Compressed gases can present significant safety hazards. During cylinder use, use equipment designed for these specific cylinders. Ensure all lines and equipment are rated for proper service pressure.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain that application equipment is locked and tagged-out safely. Always use product in areas where adequate ventilation is provided.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS: No special ventilation systems or engineering controls are needed under normal circumstances of use. As with all chemicals, use this gas mixture in well-ventilated areas. If this gas mixture is used in a poorly-ventilated area, install automatic monitoring equipment to detect the levels of Oxygen, Hydrogen Sulfide, and Carbon Monoxide.

RESPIRATORY PROTECTION: No special respiratory protection is required under normal circumstances of use. Use supplied air respiratory protection if the levels of components exceeds exposure limits presented in Section 2 (Composition and Information of Ingredients) and Oxygen levels are below 19.5%, or unknown, during emergency response to a release of this gas mixture. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Standard (29 CFR 1910.134), applicable U.S. State regulations, or the Canadian CSA Standard Z94.4-93 and applicable standards of Canadian Provinces. Oxygen levels below 19.16.33% are considered IDLH by OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under OSHA's Respiratory Protection Standard (1910.134-1998). The following NIOSH respiratory protection recommendations for Hydrogen Sulfide and Carbon Monoxide are provided for further information.

NIOSH/OSHA RECOMMENDATIONS FOR HYDROGEN SULFIDE CONCENTRATIONS IN AIR:

Up to 100 ppm:	Powered air-purifying respirator with cartridge(s) to protect against hydrogen sulfide; gas mask with canister to protect against hydrogen sulfide; or SAR; or full-facepiece SCBA.
Emergency or Planned Entry into Unknown Concentration or IDLH Conditions:	Positive pressure, full-facepiece SCBA; or positive pressure, full-facepiece SAR with an auxiliary positive pressure SCBA.
Escape:	Gas mask with canister to protect against hydrogen sulfide; or escape-type SCBA
NOTE:	The IDLH concentration for Hydrogen Sulfide is 100 ppm.

NIOSH/OSHA RECOMMENDATIONS FOR CARBON MONOXIDE CONCENTRATIONS IN AIR:

Up to 350 ppm	Supplied Air Respirator (SAR)
Up to 875 ppm	Supplied Air Respirator (SAR) operated in a continuous flow mode.
Up to 1200 ppm	Gas mask with canister to protect against carbon monoxide; or full-facepiece SCBA; or full-facepiece Supplied Air Respirator (SAR).
Emergency or Planned Entry into Unknown Concentration or IDLH Conditions:	Positive pressure, full-facepiece SCBA; or positive pressure, full-facepiece Supplied Air Respirator (SAR) with an auxiliary positive pressure SCBA.
Escape:	Gas mask with canister to protect against carbon monoxide; or escape-type SCBA. **NOTE**: End of Service Life Indicator (ESLI) required for gas masks.
NOTE:	The IDLH concentration for Carbon Monoxide is 1200 ppm.

EYE PROTECTION: Safety glasses. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

HAND PROTECTION: Wear leather gloves when handling cylinders. Chemically resistant gloves should be worn when using this gas mixture. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

BODY PROTECTION: No special protection is needed under normal circumstances of use. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

9. PHYSICAL and CHEMICAL PROPERTIES

The following information is for Nitrogen, the main component of this gas mixture.

GAS DENSITY @ 32°F (0°C) and 1 atm: .072 lbs/ ft^3 (1.153 kg/m^3)

FREEZING/MELTING POINT @ 10 psig: -345.8°F (-210°C)

SPECIFIC GRAVITY (air = 1) @ 70°F (21.1°C): 0.906

SOLUBILITY IN WATER vol/vol @ 32°F (0°C) and 1 atm: 0.023

EVAPORATION RATE (nBuAc = 1): Not applicable.

VAPOR PRESSURE @ 70°F (21.1°C) (psig): Not applicable.

COEFFICIENT WATER/OIL DISTRIBUTION: Not applicable.

BOILING POINT: -320.4°F (-195.8°C)

pH: Not applicable.

MOLECULAR WEIGHT: 28.01

EXPANSION RATIO: Not applicable.

SPECIFIC VOLUME (ft^3/lb): 13.8

The following information is for this gas mixture.

ODOR THRESHOLD: 0.13 ppm (Hydrogen Sulfide)

APPEARANCE AND COLOR: This gas mixture is a colorless gas which has an rotten egg-like odor, due to the presence of Hydrogen Sulfide.

HOW TO DETECT THIS SUBSTANCE (warning properties): Continuous inhalation of low concentrations of this gas mixture may cause olfactory fatigue, due to the presence of Hydrogen Sulfide, so the odor is not a good warning property of a release of this gas mixture. In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation. Wet lead acetate paper can be used for leak detection. The paper turns black in the presence of Hydrogen Sulfide. Cadmium chloride solutions can also be used. Cadmium solutions will turn yellow upon contact with Hydrogen Sulfide.

10. STABILITY and REACTIVITY

STABILITY: Normally stable in gaseous state.

DECOMPOSITION PRODUCTS: The thermal decomposition products of Methane include carbon oxides. The decomposition products of Hydrogen Sulfide include water and sulfur oxides. The other components of this gas mixture do not decompose, per se, but can react with other compounds in the heat of a fire.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Titanium will burn in Nitrogen (the main component of this gas mixture). Lithium reacts slowly with Nitrogen at ambient temperatures. Components of this gas mixture (Hydrogen Sulfide, Methane) are also incompatible with strong oxidizers (i.e. chlorine, bromine pentafluoride, oxygen, oxygen difluoride, and nitrogen trifluoride). Carbon Monoxide is mildly corrosive to nickel and iron (especially at high temperatures and pressures). Hydrogen Sulfide is corrosive to most metals, because it reacts with these substances to form metal sulfides.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Contact with incompatible materials. Cylinders exposed to high temperatures or direct flame can rupture or burst.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: The following toxicology data are available for the components of this gas mixture:

NITROGEN:

There are no specific toxicology data for Nitrogen. Nitrogen is a simple asphyxiant, which acts to displace oxygen in the environment.

METHANE:

There are no specific toxicology data for Methane. Methane is a simple asphyxiant, which acts to displace oxygen in the environment.

CARBON MONOXIDE:

LC_{50} (Inhalation-Rat) 1807 ppm/4 hours
LC_{50} (Inhalation-Mouse) 2444 ppm/4 hours
LC_{50} (Inhalation-Guinea Pig) 5718 ppm/4 hours
LC_{50} (Inhalation-wild bird species) 1334 ppm
LCLo (Inhalation-Human) 4 mg/m^3/12 hours: Behavioral: coma; Vascular: BP lowering not characterized in autonomic section; Blood: methemoglobinemia-carboxyhemoglobin
LCLo (Inhalation-Man) 4000 ppm/30 minutes
LCLo (Inhalation-Human) 5000 ppm/5 minutes
LCLo (Inhalation-Dog) 4000 ppm/46 minutes
LCLo (Inhalation-Rabbit) 4000 ppm
LCLo (Inhalation-Mammal-species unspecified) 5000 ppm/5 minutes
TCLo (Inhalation-Human) 600 mg/m^3/10 minutes: Behavioral: headache
TCLo (Inhalation-Man) 650 ppm/45 minutes: Blood: methemoglobinemia-carboxyhemoglobin; Behavioral: changes in psychophysiological tests
TCLo (Inhalation-Rat) 1800 ppm/1 hour/14 days-intermittent: Cardiac: other changes
TCLo (Inhalation-Rat) 30 mg/m^3/8 hours/10 weeks-intermittent: Brain and Coverings: other degenerative changes; Behavioral: muscle contraction or spasticity
TCLo (Inhalation-Rat) 96 ppm/24 hours/90 days-continuous: Blood: pigmented or nucleated red blood cells, other changes
TCLo (Inhalation-Rat) 250 ppm/5 hours/20 days-intermittent: Blood :pigmented or nucleated red blood cells, changes in other cell count (unspecified), changes in erythrocyte (RBC) count
TDLo (Subcutaneous-Rat) 5983 mg/kg/18 weeks-intermittent: Blood: changes in serum composition (e.g. TP, bilirubin, cholesterol)
TCLo (Inhalation-Monkey) 200 ppm/24 hours/90 days-continuous: Blood: pigmented or nucleated red blood cells, other changes
TCLo (Inhalation-Rabbit) 200 mg/m^3/3 hours/13 weeks-intermittent: Brain and Coverings: other degenerative changes; Cardiac: other changes; Blood: hemorrhage
TCLo (Inhalation-Guinea Pig) 200 mg/m^3/5 hours/30 weeks-continuous: Cardiac: arrhythmias (including changes in conduction), EKG changes not diagnostic of specified effects, pulse rate increase, without fall in BP

CARBON MONOXIDE (continued):

TCLo (Inhalation-Mouse) 50 ppm/30 days-intermittent: Lungs, Thorax, or Respiration: structural or functional change in trachea or bronchi
TCLo (Inhalation-Guinea Pig) 200 mg/m^3/5 hours/4 weeks-intermittent: Endocrine: hyperglycemia
TCLo (Inhalation-Guinea Pig) 200 ppm/24 hours/90 days-continuous: Blood: pigmented or nucleated red blood cells, other changes
TCLo (Inhalation-Rat) 75 ppm/24 hours: female 0-20 day(s) after conception: Reproductive: Maternal Effects: other effects; Effects on Newborn: behavioral
TCLo (Inhalation-Rat) 150 ppm/24 hours: female 1-22 day(s) after conception: Reproductive: Specific Developmental Abnormalities: cardiovascular (circulatory) system
TCLo (Inhalation-Rat) 150 ppm/24 hours: female 1-22 day(s) after conception: Reproductive: Effects on Newborn: growth statistics (e.g.%, reduced weight gain), behavioral
TCLo (Inhalation-Rat) 1 mg/m^3/24 hours: female 72 day(s) pre-mating: Reproductive: Maternal Effects: menstrual cycle changes or disorders, parturition; Fertility: female fertility index (e.g. # females pregnant per # sperm positive females; # females pregnant per # females mated)
TCLo (Inhalation-Rat) 150 ppm/24 hours: female 0-20 day(s) after conception: Reproductive: Effects on Newborn: behavioral
TCLo (Inhalation-Rat) 75 ppm/24 hours: female 0-20 day(s) after conception: Reproductive: Specific Developmental Abnormalities: immune and reticuloendothelial system
TCLo (Inhalation-Mouse) 65 ppm/24 hours: female 7-18 day(s) after conception: Reproductive: Effects on Newborn: behavioral
TCLo (Inhalation-Mouse) 250 ppm/7 hours: female 6-15 day(s) after conception: Reproductive: Fertility: post-implantation mortality (e.g. dead and/or resorbed implants per total number of implants); Specific Developmental Abnormalities: musculoskeletal system
TCLo (Inhalation-Mouse) 125 ppm/24 hours: female 7-18 day(s) after conception: Reproductive: Effects on Embryo or Fetus: fetotoxicity (except death, e.g., stunted fetus)
TCLo (Inhalation-Mouse) 8 pph/1 hour: female 8 day(s) after conception: Reproductive: Fertility: litter size (e.g. # fetuses per litter; measured before birth); Effects on Embryo or Fetus: fetotoxicity (except death, e.g., stunted fetus), fetal death

CARBON MONOXIDE (continued):

TCLo (Inhalation-Rabbit) 50 ppm/24 hours/8 weeks-continuous: Blood: changes in platelet count
TCLo (Inhalation-Mouse) 8 pph/1 hour: female 8 day(s) after conception: Reproductive: Specific Developmental Abnormalities: Central Nervous System
TCLo (Inhalation-Rabbit) 180 ppm/24 hours: female 1-30 day(s) after conception: Reproductive: Effects on Newborn: stillbirth, viability index (e.g., # alive at day 4 per # born alive)
Micronucleus Test (Inhalation-Mouse)1500 ppm/10 minutes
Sister Chromatid Exchange (Inhalation-Mouse) 2500 ppm/10 minutes

HYDROGEN SULFIDE:

LC_{50} (Inhalation-Rat) 444 ppm: Lungs, Thorax, or Respiration: other changes; Gastrointestinal: hypermotility, diarrhea; Kidney, Ureter, Bladder: urine volume increased
LC_{50} (Inhalation-Mouse) 634 ppm/1 hour
LCLo (Inhalation-Human) 600 ppm/30 minutes
LCLo (Inhalation-Man) 5700 μg/kg: Behavioral: coma; Lungs, Thorax, or Respiration: chronic pulmonary edema
LCLo (Inhalation-Human) 800 ppm/5 minutes
LCLo (Inhalation-Mammal-species unspecified) 800 ppm/5 minutes
TCLo (Inhalation-Rat) 30 ppm/6 hours/10 weeks-intermittent: Sense Organs and Special Senses (Olfaction): olfactory nerve change, effect, not otherwise specified
TCLo (Inhalation-Rat) 1200 mg/m^3/2 hours/5 days-intermittent: Brain and Coverings: other degenerative changes; Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: true cholinesterase
TCLo (Inhalation-Rat) 100 ppm/8 hours/5 weeks-intermittent: Brain and Coverings: other degenerative changes; Lungs, Thorax, or Respiration: other changes; Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels: cytochrome oxidases (including oxidative phosphorylation)
TCLo (Inhalation-Rat) 80 ppm/6 hours/90 days-intermittent: Brain and Coverings: changes in brain weight; Nutritional and Gross Metabolic: weight loss or decreased weight gain
TCLo (Inhalation-Rat) 20 ppm: female 6-22 day(s) after conception lactating female 21 day(s) post-birth: Reproductive: Effects on Newborn: physical
TCLo (Inhalation-Mouse) 80 ppm/6 hours/90 days-intermittent: Nutritional and Gross Metabolic: weight loss or decreased weight gain; Related to Chronic Data: death
TCLo (Inhalation-Rabbit) 40 mg/m^3/5 hours/30 weeks-intermittent: Sense Organs and Special Senses (Eye): conjunctive irritation

SUSPECTED CANCER AGENT: The components of this gas mixture are not found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, and IARC; therefore, they are not considered to be, nor suspected to be, cancer-causing agents by these agencies.

IRRITANCY OF PRODUCT: This gas mixture is irritating to the eyes, and may be irritating to the skin.

SENSITIZATION OF PRODUCT: The components of this gas mixture are not known to be skin or respiratory sensitizers.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of this gas mixture on the human reproductive system.

Mutagenicity: The components of this gas mixture are not reported to cause mutagenic effects in humans.

REPRODUCTIVE TOXICITY INFORMATION (continued):

Embryotoxicity: This gas mixture contains components that may cause embryotoxic effects in humans; however, due to the small total amount of the components, embryotoxic effects are not expected to occur.

Teratogenicity: This gas mixture is not expected to cause teratogenic effects in humans due to the small cylinder size and small total amount of all components. The Carbon Monoxide component of this gas mixture which exists up to 1%, can cause teratogenic effects in humans. Severe exposure to Carbon Monoxide during pregnancy has caused adverse effects and the death of the fetus. In general, maternal symptoms are an indicator of the potential risk to the fetus since Carbon Monoxide is toxic to the mother before it is toxic to the fetus.

Reproductive Toxicity: The components of this gas mixture are not reported to cause adverse reproductive effects in humans.

A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An embryotoxin is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance which interferes in any way with the reproductive process.

BIOLOGICAL EXPOSURE INDICES (BEIs): Biological Exposure Indices (BEIs) have been determined for components of this gas mixture, as follows:

CHEMICAL DETERMINANT	SAMPLING TIME	BEI
CARBON MONOXIDE • Carboxyhemoglobin in blood • Carbon monoxide in end-exhaled air	 • End of shift • End of shift	 • 3.5% of hemoglobin • 20 ppm

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY: The gas will be dissipated rapidly in well-ventilated areas. The following environmental data are applicable to the components of this gas mixture.

CARBON MONOXIDE:

Atmospheric Fate: A photochemical model was used to quantify the sensitivity of the tropospheric oxidants ozone (O_3) and OH to changes in methane (CH_4), Carbon Monoxide (CO), and NO emissions and to perturbations in climate and stratospheric chemistry. In most cases, increased CH_4 and CO emissions will suppress OH (negative coefficients) in increased O_3 (positive coefficients) except in areas where NO and O_3 influenced by pollution are sufficient to increased OH. In most regions, NO, CO, and CH_4 emission increased will suppress OH and increased O_3, but these trends may be opposed by stratospheric O3 depletion and climate change.

HYDROGEN SULFIDE:

Water Solubility = 1 g/242 mL at 20°C.

Plant toxicity: Continuous fumigation of plants with 300 or 3000 ppb Hydrogen Sulfide caused leaf lesions, defoliation, and reduced growth with severity of injury correlated to dose. At higher (3.25 and 5.03 ppm) Hydrogen Sulfide, significant reductions in leaf CO2 and water vapor exchanges occurred, and stomatal openings were depressed. When Hydrogen Sulfide gas was applied to 29 species of green plants for 5 hours, young, rapidly elongating tissues were more sensitive to injury than older tissues. Symptoms included scorching of young shoots and

12. ECOLOGICAL INFORMATION(continued)

leaves, basal and marginal scorching of older leaves. Mature leaves were unaffected. Seeds exposed to Hydrogen Sulfide gas showed delay in germination.

Persistence: Converts to elemental sulfur upon standing in water.

Major Species Threatened: Aquatic and animal life plants may be injured if exposed to 5 ppm in air over 24 hours.

Biodegradation: Microorganisms in soil and water are involved in oxidation-reduction reactions that oxidize hydrogen sulfide to elemental sulfur. Members of the genera Beggiatoa, Thioploca, and Thiotrix function in transition zones between aerobic and anaerobic conditions where both molecular oxygen and hydrogen sulfide are found. Also, some photosynthetic bacteria oxidize hydrogen sulfide to elemental sulfur. Members of the families Chlorobiaceae and Chromatiaceae (purple sulfur bacteria) are obligate aerobes and are phototropic, and are found in waters with high H_2S concentrations. The interactions of these organisms form part of the global sulfur cycle.

Bioconcentration: Does not have bioaccumulation or food chain contamination potential.

NITROGEN: Water Solubility = 2.4 volumes Nitrogen/100 volumes water at 0°C; 1.6 volumes Nitrogen/100 volumes water at 20°C.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: No evidence is currently available on this gas mixture's effects on plant and animal life. Hydrogen Sulfide and Carbon Monoxide, components of this gas mixture, can be deadly to exposed animal life, producing symptoms similar to those experienced by humans. This gas mixture may also be harmful to plant life.

EFFECT OF CHEMICAL ON AQUATIC LIFE: No evidence is currently available on this gas mixture's effects on aquatic life. The presence of more than a trace of the Carbon Monoxide component of this gas mixture is a hazard to fish. The following aquatic toxicity data are available for the Hydrogen Sulfide component of this gas mixture:

HYDROGEN SULFIDE:

LC_{50} (*Asellus* arthropods) 96 hours = 0.111 mg/L
LC_{50} (*Crangon* arthropods) 96 hours = 1.07 mg/L
LC_{50} (*Gammarus* arthropods) 96 hours = 0.84 mg/L
LC_{50} (Ephemera) 96 hours = 0.316 mg/L
LC_{50} (Inhalation-Flies) > 960 minutes = 380 mg/m^3
LC_{50} (Inhalation-Flies) 7 minutes = 1,500 mg/m^3
LC_{50},F (bluegill, eggs) 72 hours = 0.0190 mg/L

HYDROGEN SULFIDE (continued):

LC_{50},F (bluegill, 35-day-old fry) 96 hours = 0.0131 mg/L
LC_{50},F (bluegill, juveniles) 96 hours = 0.0478 mg/L
LC_{50},F (bluegill, adults) 96 hours = 0.0448 mg/L
LC_{50},F (fathead minnows) 96 hours = 0.0071-0.55 mg/L
LC_{50},F (bluegill) 96 hours = 0.0090-0.0140 mg/L
LC_{50},F (brook trout) 96 hours = 0.0216-0.0308 mg/L
Toxic (goldfish) = 100 mg/L

HYDROGEN SULFIDE (continued):

Lethal (goldfish) 96 hours = 10 mg/L
Toxic (carp) 24 hours = 3.3 mg/L
Toxic (goldfish) 24 hours = 4.3 mg/L
Toxic (sunfish) 1 hour = 4.9 to 5.3 mg/L
Toxic (goldfish) 200 hours = 5 mg/L
Toxic (minnows) 24 hours = 5-6 mg/L
Toxic (carp) 24 hours = 6-25 mg/L
Toxic (trout) 15 minutes = 10 mg/L
Toxic (goldfish) 24 hours = 25 mg/L
Toxic (tench) 3 hours = 100 mg/L
MATC,F (fathead minnows) 0.0037 mg/L
MATC,F (bluegill) 0.0004 mg/L
MATC,F (brook trout) 0.055 mg/L

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Cylinders with undesired residual product may be safely vented outdoors with the proper regulator. For further information, refer to Section 16 (Other Information).

14. TRANSPORTATION INFORMATION

THIS GAS MIXTURE IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME: Compressed gases, n.o.s. (*Oxygen, Nitrogen)*or the gas component with the next highest concentration next to Nitrogen.

HAZARD CLASS NUMBER and DESCRIPTION: 2.2 (Non-Flammable Gas)
UN IDENTIFICATION NUMBER: UN 1956
PACKING GROUP: Not Applicable
DOT LABEL(S) REQUIRED: Non-Flammable Gas
NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2000): 126

U.S. DEPARTMENT OF TRANSPORTATION INFORMATION (continued):

MARINE POLLUTANT: The components of this gas mixture are not classified by the DOT as Marine Pollutants (as defined by 49 CFR 172.101, Appendix B).

SPECIAL SHIPPING INFORMATION: Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles can present serious safety hazards. If transporting these cylinders in vehicles, ensure these cylinders are not exposed to extremely high temperatures (as may occur in an enclosed vehicle on a hot day). Additionally, the vehicle should be well-ventilated during transportation.

Note: DOT 39 Cylinders ship in a strong outer carton (overpack). Pertinent shipping information goes on the outside of the overpack. DOT 39 Cylinders do not have transportation information on the cylinder itself.

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This gas mixture is considered as Dangerous Goods, per regulations of Transport Canada.

PROPER SHIPPING NAME: Compressed gases, n.o.s. (*Oxygen, Nitrogen)*or the gas component with the next highest concentration next to Nitrogen.

HAZARD CLASS NUMBER and DESCRIPTION: 2.2 (Non-Flammable Gas)
UN IDENTIFICATION NUMBER: UN 1956
PACKING GROUP: Not Applicable
HAZARD LABEL: Class 2.2 (Non-Flammable Gas)
SPECIAL PROVISIONS: None
EXPLOSIVE LIMIT AND LIMITED QUANTITY INDEX: 0.12
ERAP INDEX: 3000
PASSENGER CARRYING SHIP INDEX: Forbidden
PASSENGER CARRYING ROAD VEHICLE OR PASSENGER CARRYING RAILWAY VEHICLE INDEX: Forbidden
NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2000): 126

NOTE: Shipment of compressed gas cylinders via Public Passenger Road Vehicle is a violation of Canadian law (Transport Canada Transportation of Dangerous Goods Act, 1992).

15. REGULATORY INFORMATION

ADDITIONAL U.S. REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: This gas mixture is subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act, as follows:

CHEMICAL NAME	SARA 302 (40 CFR 355, Appendix A)	SARA 304 (40 CFR Table 302.4)	SARA 313 (40 CFR 372.65)
Hydrogen Sulfide	YES	YES	YES

U.S. SARA THRESHOLD PLANNING QUANTITY: Hydrogen Sulfide = 500 lb (227 kg)
U.S. TSCA INVENTORY STATUS: The components of this gas mixture are listed on the TSCA Inventory.
U.S. CERCLA REPORTABLE QUANTITY (RQ): Hydrogen Sulfide = 100 lb (45 kg)
OTHER U.S. FEDERAL REGULATIONS:

- Hydrogen Sulfide and Carbon Monoxide are subject to the reporting requirements of CFR 29 1910.1000.
- Hydrogen Sulfide and Methane are subject to the reporting requirements of Section 112(r) of the Clean Air Act. The Threshold Quantity for each of these gases is 10,000 pounds and so this mixture will not be affected by the regulation.
- Depending on specific operations involving the use of this gas mixture, the regulations of the Process Safety Management of Highly Hazardous Chemicals may be applicable (29 CFR 1910.119). Hydrogen Sulfide is listed in Appendix A of this regulation. The Threshold Quantity for Hydrogen Sulfide under this regulation is 1500 lbs (and so one cylinder of this gas mixture will not be affected by this regulation).
- This gas mixture does not contain any Class I or Class II ozone depleting chemicals (40 CFR part 82).
- Nitrogen and Oxygen are not listed Regulated Substances, per 40 CFR, Part 68, of the Risk Management for Chemical Releases. Hydrogen Sulfide is listed under this regulation in Table 1 as a Regulated Substance (Toxic Substance), in quantities of 10,000 lbs (4,553 kg) or greater.

15. REGULATORY INFORMATION(continued)

Carbon Monoxide and Methane are listed under this regulation in Table 3, as Regulated Substances (Flammable), in quantities of 10,000 lbs (4,553 kg) or greater, and so this mixture will not be affected by the regulation.

U.S. STATE REGULATORY INFORMATION: The components of this gas mixture are covered under the following specific State regulations:

Alaska - Designated Toxic and Hazardous Substances: Carbon Monoxide, Hydrogen Sulfide, Methane.

California - Permissible Exposure Limits for Chemical Contaminants: Carbon Monoxide, Nitrogen, Hydrogen Sulfide, Methane.

Florida - Substance List: Oxygen, Carbon Monoxide, Hydrogen Sulfide

Illinois - Toxic Substance List: Carbon Monoxide, Methane, Hydrogen Sulfide.

Kansas - Section 302/313 List: No.

Massachusetts - Substance List: Oxygen, Carbon Monoxide, Hydrogen Sulfide, Methane.

Michigan - Critical Materials Register: No.

Minnesota - List of Hazardous Substances: Carbon Monoxide, Hydrogen Sulfide, Methane.

Missouri - Employer Information/Toxic Substance List t: Hydrogen Sulfide, Methane.

New Jersey - Right to Know Hazardous Substance List: Oxygen, Carbon Monoxide, Nitrogen, Methane.

North Dakota - List of Hazardous Chemicals, Reportable Quantities: Hydrogen Sulfide.

Pennsylvania - Hazardous Substance List: Oxygen, Carbon Monoxide, Nitrogen, Hydrogen Sulfide, Methane.

Rhode Island - Hazardous Substance List: Oxygen, Carbon Monoxide, Nitrogen, Hydrogen Sulfide, Methane.

Texas - Hazardous Substance List: Hydrogen Sulfide.

West Virginia - Hazardous Substance List: Hydrogen Sulfide.

Wisconsin - Toxic and Hazardous Substances: Hydrogen Sulfide

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): The Carbon Monoxide component of this gas mixture is on the California Proposition 65 lists. WARNING! This gas mixture contains a compound known to the State of California to cause birth defects or other reproductive harm.

ADDITIONAL CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: The components of this gas mixture are listed on the DSL Inventory.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: The components of this gas mixture are not on the CEPA Priorities Substances Lists.

CANADIAN WHMIS CLASSIFICATION: This gas mixture is categorized as a Controlled Product, Hazard Classes A and D2A, as per the Controlled Product Regulations.

16. OTHER INFORMATION

INFORMATION ABOUT DOT-39 NRC (Non-Refillable Cylinder) PRODUCTS

DOT 39 cylinders ship as hazardous materials when full. Once the cylinders are relieved of pressure (empty) they are not considered hazardous material or waste. Residual gas in this type of cylinder is not an issue because toxic gas mixtures are prohibited. Calibration gas mixtures typically packaged in these cylinders are Nonflammable n.o.s., UN 1956. A small percentage of calibration gases packaged in DOT 39 cylinders are flammable or oxidizing gas mixtures.

For disposal of used DOT-39 cylinders, it is acceptable to place them in a landfill if local laws permit. Their disposal is no different than that employed with other DOT containers such as spray paint cans, household aerosols, or disposable cylinders of propane (for camping, torch etc.). When feasible, we recommended recycling for scrap metal content. CALGAZ will do this for any customer that wishes to return cylinders to us prepaid. All that is required is a phone call to make arrangements so we may anticipate arrival. Scrapping cylinders involves some preparation before the metal dealer may accept them. We perform this operation as a service to valued customers who want to participate.

MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

Further information about the handling of compressed gases can be found in the following pamphlets published by: Compressed Gas Association Inc. (CGA), 1725 Jefferson Davis Highway, Suite 1004, Arlington, VA 22202-4102. Telephone: (703) 412-0900.

P-1 *"Safe Handling of Compressed Gases in Containers"*

AV-1 *"Safe Handling and Storage of Compressed Gases"*

"Handbook of Compressed Gases"

PREPARED BY:

CHEMICAL SAFETY ASSOCIATES, Inc.
PO Box 3519, La Mesa, CA 91944-3519
619/670-0609

Fax on Demand: 1-800/231-1366

AIR LIQUIDE™

This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this gas mixture. To the best of CALGAZ knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this gas mixture is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

SAFETY DATA SHEET

Helium

Section 1. Identification

GHS product identifier : Helium

Chemical name : Helium

Other means of identification : helium (dot); Helium-4; He; o-Helium; UN 1046

Product use : Synthetic/Analytical chemistry.

Synonym : helium (dot); Helium-4; He; o-Helium; UN 1046

SDS # : 001025

Supplier's details : Airgas USA, LLC and its affiliates
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253

Emergency telephone number (with hours of operation) : 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : GASES UNDER PRESSURE - Compressed gas

GHS label elements

Hazard pictograms :

Signal word : Warning

Hazard statements : Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation.

Precautionary statements

General : Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction.

Prevention : Use and store only outdoors or in a well ventilated place.

Response : Not applicable.

Storage : Protect from sunlight. Protect from sunlight when ambient temperature exceeds 52°C/125°F. Store in a well-ventilated place.

Disposal : Not applicable.

Hazards not otherwise classified : In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.

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Section 3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : Helium

Other means of identification : helium (dot); Helium-4; He; o-Helium; UN 1046

CAS number/other identifiers

CAS number : 7440-59-7

Product code : 001025

Ingredient name	%	CAS number
Helium	100	7440-59-7

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : As this product is a gas, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation : No known significant effects or critical hazards.

Skin contact : Contact with rapidly expanding gas may cause burns or frostbite.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Ingestion : As this product is a gas, refer to the inhalation section.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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Section 4. First aid measures

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

Hazardous thermal decomposition products : No specific data.

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Immediately contact emergency personnel. Stop leak if without risk.

Large spill : Immediately contact emergency personnel. Stop leak if without risk. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Helium	Oxygen Depletion [Asphyxiant]

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

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Section 8. Exposure controls/personal protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Gas. [Compressed gas.]

Color : Colorless.

Molecular weight : 4 g/mole

Molecular formula : He

Boiling/condensation point : -268.9°C (-452°F)

Melting/freezing point : -272.2°C (-458°F)

Critical temperature : -267.9°C (-450.2°F)

Odor : Odorless.

Odor threshold : Not available.

pH : Not available.

Flash point : [Product does not sustain combustion.]

Burning time : Not applicable.

Burning rate : Not applicable.

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : Not available.

Vapor density : 0.14 (Air = 1) Liquid Density@BP: 7.8 lb/ft3 (125 kg/m3)

Specific Volume (ft ^{3}/lb) : 96.1538

Gas Density (lb/ft ^{3}) : 0.0104

Relative density : Not applicable.

Solubility : Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/water : 0.28

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

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Section 9. Physical and chemical properties

SADT : Not available.

Viscosity : Not applicable.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

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Section 11. Toxicological information

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation : No known significant effects or critical hazards.

Skin contact : Contact with rapidly expanding gas may cause burns or frostbite.

Ingestion : As this product is a gas, refer to the inhalation section.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

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Section 12. Ecological information

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Helium	0.28	-	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1046	UN1046	UN1046	UN1046	UN1046
UN proper shipping name	HELIUM, COMPRESSED	HELIUM, COMPRESSED	HELIUM, COMPRESSED	HELIUM, COMPRESSED	HELIUM, COMPRESSED
Transport hazard class(es)	2.2	2.2	2.2	2.2	2.2
Packing group	-	-	-	-	-
Environment	No.	No.	No.	No.	No.
Additional information	**Limited quantity** Yes. **Packaging instruction** **Passenger aircraft** Quantity limitation: 75 kg **Cargo aircraft** Quantity limitation: 150 kg	**Explosive Limit and Limited Quantity Index** 0.125 **Passenger Carrying Road or Rail Index** 75	-	-	**Passenger and Cargo Aircraft**Quantity limitation: 75 kg **Cargo Aircraft Only** Quantity limitation: 150 kg

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

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Section 14. Transport information

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

United States inventory (TSCA 8b): This material is listed or exempted.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Sudden release of pressure

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Helium	100	No.	Yes.	No.	No.	No.

State regulations

Massachusetts : This material is listed.

New York : This material is not listed.

New Jersey : This material is listed.

Pennsylvania : This material is listed.

Canada inventory : This material is listed or exempted.

International regulations

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Section 15. Regulatory information

International lists : **Australia inventory (AICS)**: This material is listed or exempted.
China inventory (IECSC): This material is listed or exempted.
Japan inventory: Not determined.
Korea inventory: This material is listed or exempted.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted.
Philippines inventory (PICCS): This material is listed or exempted.
Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : Not listed

Canada

WHMIS (Canada) : Class A: Compressed gas.

CEPA Toxic substances: This material is not listed.
Canadian ARET: This material is not listed.
Canadian NPRI: This material is not listed.
Alberta Designated Substances: This material is not listed.
Ontario Designated Substances: This material is not listed.
Quebec Designated Substances: This material is not listed.

Section 16. Other information

Canada Label requirements : Class A: Compressed gas.

Hazardous Material Information System (U.S.A.)

Health	0
Flammability	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

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Section 16. Other information

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

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Date of previous issue : 10/2/2014.

Version : 0.02

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United NationsACGIH – American Conference of Governmental Industrial Hygienists
AIHA – American Industrial Hygiene Association
CAS – Chemical Abstract Services
CEPA – Canadian Environmental Protection Act
CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act (EPA)
CFR – United States Code of Federal Regulations
CPR – Controlled Products Regulations
DSL – Domestic Substances List
GWP – Global Warming Potential
IARC – International Agency for Research on Cancer
ICAO – International Civil Aviation Organisation
Inh – Inhalation
LC – Lethal concentration
LD – Lethal dosage
NDSL – Non-Domestic Substances List
NIOSH – National Institute for Occupational Safety and Health
TDG – Canadian Transportation of Dangerous Goods Act and Regulations
TLV – Threshold Limit Value
TSCA – Toxic Substances Control Act
WEEL – Workplace Environmental Exposure Level
WHMIS – Canadian Workplace Hazardous Material Information System

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Powered by IHS

MATERIAL SAFETY DATA SHEET
HORIBA INSTRUMENTS, INC.
17671 Armstrong Avenue, Irvine, CA 92614
(949) 250-4811

REVISION DATE MAY 2003

SECTION I: MATERIAL IDENTIFICATION

IDENTITY: Potassium hydrogen phthalate
P/N 350623, 527033, 696138-1, 9003001600, 100-4

CHEMICAL FORMULA: $C_6H_4(COOK)(COOH)$ ~1% in water

GENERIC NAME: pH 4 Buffer Solution

CHEMICAL FAMILY: Salt solution

OTHER DESIGNATION: pH 4 Standard Solution, Autocal solution, 100-4

IN CASE OF EMERGENCY CONTACT YOUR REGIONAL PLANT MANAGER

SECTION II: HAZARDOUS INGREDIENTS

Irritant: Eyes, nose and throat, skin.

This product contains the following toxic chemical(s) subject to Section 313 Title III reporting requirements (40 CFR Part 372): NONE

SECTION III: PHYSICAL DATA

MELTING POINT (*): 295-300°C

SPECIFIC GRAVITY (H_2O = 1): 1.636

VAPOR PRESSURE: N/A

PERCENT, VOLATILE BY VOLUME (%): None

SOLUBILITY IN WATER v/v @°C: 1.2% (cool water) CAS #: 877-24-7

APPEARANCE AND ODOR: Colorless liquid

SECTION IV:PHYSICAL DATA

FLASH POINT AND METHOD: N/A

FLAMMABLE LIMITS: None

EXTINGUISHING MEDIA: Determine based on surrounding combustibles.

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

SECTION V: REACTIVITY DATA

STABILITY: Stable at normal temperature

INCOMPATIBILITY (MATERIALS TO AVOID): None

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: None

SECTION VI: HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Wash eyes with clean water flowing for 10-15 minutes. Call doctor immediately.
Skin: Take off contaminated clothing and wash skin with water.
Inhaled: Move the patient into clear air. Keep patient warm and stable. Loosen clothing and use artificial respiration if necessary. Call doctor immediately.
Swallowed: Give patient plenty of warm water/milk. Induce vomiting. Call doctor immediately. If patient is unconscious, do not give water/milk, but call doctor immediately.

SECTION VII: SPILL OR LEAK PROCEDURES

Highway or railway spills call Chemtrec (800) 424-9300

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Collect as much material as possible. The place of leakage should be washed with plenty of water.

WASTE DISPOSAL METHOD:
Dispose as chemical waste.

SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): Not normally required.

VENTILATION: Not normally required.

OTHER PROTECTIVE EQUIPMENT: Optional - eye mask, gloves and long-sleeve working clothes.

SECTION IX:SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
After working, wash hands thoroughly.

OTHER PRECAUTIONS: None.

For the following RAE Part Numbers:

600-0001-000, 600-0002-000

600-0002-001, 600-0026-000

600-0027-000, 600-0069-000

AIR LIQUIDE

MATERIAL SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

1. PRODUCT IDENTIFICATION

CHEMICAL NAME; CLASS: NONFLAMMABLE GAS MIXTURE

Containing One or More of the Following Components in a Nitrogen Balance Gas: Oxygen 0-23.5%; Isobutylene, 0.0005-0.9%

SYNONYMS: Not Applicable
CHEMICAL FAMILY NAME: Not Applicable
FORMULA: Not Applicable
Document Number: 50054

Note: The Material Safety Data Sheet is for this gas mixture supplied in cylinders with 33 cubic feet (935 liters) or less gas capacity (DOT - 39 cylinders). This MSDS has been developed for various gas mixtures with the composition of components within the ranges listed in Section 2 (Composition and Information on Ingredients). Refer to the product label for information on the actual composition of the product.

PRODUCT USE:	Calibration of Monitoring and Research Equipment
SUPPLIER/MANUFACTURER'S NAME:	CALGAZ
ADDRESS:	821 Chesapeake Drive Cambridge, MD 21613
EMERGENCY PHONE:	CHEMTREC: 1-800-424-9300
BUSINESS PHONE:	1-410-228-6400
General MSDS Information:	1-713/868-0440
Fax on Demand:	1-800/231-1366

2. COMPOSITION and INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	mole %	EXPOSURE LIMITS IN AIR					
			ACGIH-TLV		OSHA-PEL		NIOSH	OTHER
			TWA ppm	STEL ppm	TWA ppm	STEL ppm	IDLH ppm	ppm
Isobutylene	115-11-7	0.0005-0.9%	There are no specific exposure limits for Isobutylene.					
Oxygen	7782-44-7	0-23.5%	There are no specific exposure limits for Oxygen.					
Nitrogen	7727-37-9	Balance	There are no specific exposure limits for Nitrogen. Nitrogen is a simple asphyxiant (SA). Oxygen levels should be maintained above 19.5%.					

NE = Not Established. See Section 16 for Definitions of Terms Used.

NOTE (1): ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-1998 format. This gas mixture has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This is a colorless, odorless gas mixture. Releases of this gas mixture may produce oxygen-deficient atmospheres (especially in confined spaces or other poorly-ventilated environments); individuals in such atmospheres may be asphyxiated. Isobutylene, a component of this gas mixture, may cause drowsiness and other central nervous system effects in high concentrations; however, due to its low concentration in this gas mixture, this is unlikely to occur.

SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE: The most significant route of over-exposure for this gas mixture is by inhalation.

INHALATION: Due to the small size of an individual cylinder of this gas mixture, no unusual health effects from over-exposure to the product are anticipated under routine circumstances of use. The chief health hazard associated with this gas mixture is when this gas mixture contains less than 19.5% Oxygen and is released in a small, poorly-ventilated area (i.e. an enclosed or confined space). Under this circumstance, an oxygen-deficient environment may occur. Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of over-exposure, death may occur. The effects associated with various levels of oxygen are as follows:

CONCENTRATION OF OXYGEN	OBSERVED EFFECT
12-16% Oxygen:	Breathing and pulse rate increase, muscular coordination slightly disturbed.
10-14% Oxygen:	Emotional upset, abnormal fatigue, disturbed respiration.
6-10% Oxygen:	Nausea, vomiting, collapse, or loss of consciousness.
Below 6%:	Convulsive movements, possible respiratory collapse, and death.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM

HEALTH HAZARD	(BLUE)	1
FLAMMABILITY HAZARD	(RED)	0
PHYSICAL HAZARD	(YELLOW)	0

PROTECTIVE EQUIPMENT

EYES	RESPIRATORY	HANDS	BODY
See Section 8			

For Routine Industrial Use and Handling Applications

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in Lay Terms. Over-exposure to this gas mixture may cause the following health effects:

ACUTE: Due to the small size of the individual cylinder of this gas mixture, no unusual health effects from exposure to the product are anticipated under routine circumstances of use. The most significant hazard associated with this gas mixture when it contains less than 19.5% oxygen is the potential for exposure to oxygen-deficient atmospheres. Symptoms of oxygen deficiency include respiratory difficulty, ringing in ears, headaches, shortness of breath, wheezing, headache, dizziness, indigestion, nausea, unconsciousness, and death. The skin of a victim of over-exposure may have a blue color. Additionally, Isobutylene, a component of this gas mixture, may cause drowsiness or central nervous system effects in high concentrations; however, due to its low concentration in this gas mixture, this is unlikely to occur.

CHRONIC: Chronic exposure to oxygen-deficient atmospheres (below 18% oxygen in air) may affect the heart and nervous system.

TARGET ORGANS: ACUTE: Respiratory system, eyes. CHRONIC: Heart, cardiovascular system, central nervous system.

4. FIRST-AID MEASURES

RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO THIS GAS MIXTURE WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. At a minimum, Self-Contained Breathing Apparatus must be worn.

No unusual health effects are anticipated after exposure to this gas mixture, due to the small cylinder size. If any adverse symptom develops after over-exposure to this gas mixture, remove victim(s) to fresh air as quickly as possible. Only trained personnel should administer supplemental oxygen and/or cardio-pulmonary resuscitation if necessary. Victim(s) who experience any adverse effect after over-exposure to this gas mixture must be taken for medical attention. Rescuers should be taken for medical attention if necessary. Take a copy of the label and the MSDS to physician or other health professional with victim(s).

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Acute or chronic respiratory conditions may be aggravated by over-exposure to this gas mixture.

RECOMMENDATIONS TO PHYSICIANS: Administer oxygen, if necessary; treat symptoms and eliminate exposure.

5. FIRE-FIGHTING MEASURES

FLASH POINT: Not applicable.

AUTOIGNITION TEMPERATURE: Not applicable.

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL): Not applicable.
Upper (UEL): Not applicable.

FIRE EXTINGUISHING MATERIALS: Non-flammable gas mixture. Use extinguishing media appropriate for surrounding fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This gas mixture is not flammable; however, containers, when involved in fire, may rupture or burst in the heat of the fire.

Explosion Sensitivity to Mechanical Impact: Not sensitive.
Explosion Sensitivity to Static Discharge: Not sensitive.

SPECIAL FIRE-FIGHTING PROCEDURES: Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment.

NFPA RATING

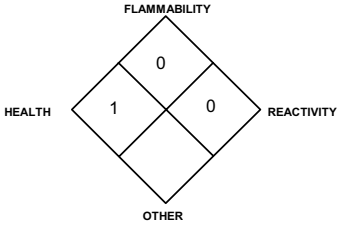

6. ACCIDENTAL RELEASE MEASURES

LEAK RESPONSE: Due to the small size and content of the cylinder, an accidental release of this gas mixture presents significantly less risk of an oxygen deficient environment and other safety hazards than a similar release from a larger cylinder. However, as with any chemical release, extreme caution must be used during emergency response procedures. In the event of a release in which the atmosphere is unknown, and in which other chemicals are potentially involved, evacuate immediate area. Such releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a leak, clear the affected area, protect people, and respond with trained personnel.

Allow the gas mixture to dissipate. If necessary, monitor the surrounding area (and the original area of the release) for oxygen. Oxygen levels must be above 19.5% before non-emergency personnel are allowed to re-enter area.

If leaking incidentally from the cylinder, contact your supplier.

7. HANDLING and USE

WORK PRACTICES AND HYGIENE PRACTICES: Be aware of any signs of dizziness or fatigue; exposures to fatal concentrations of this gas mixture could occur without any significant warning symptoms, due to oxygen deficiency. Do not attempt to repair, adjust, or in any other way modify the cylinders containing this gas mixture. If there is a malfunction or another type of operational problem, contact nearest distributor immediately.

STORAGE AND HANDLING PRACTICES: Cylinders should be firmly secured to prevent falling or being knocked-over. Cylinders must be protected from the environment, and preferably kept at room temperature (approximately 21°C [70°F]). Cylinders should be stored in dry, well-ventilated areas, away from sources of heat, ignition, and direct sunlight. Protect cylinders against physical damage. Full and empty cylinders should be segregated. Use a first-in, first-out inventory system to prevent full containers from being stored for long periods of time. These cylinders are not refillable. **WARNING! Do not refill DOT 39 cylinders. To do so may cause personal injury or property damage.**

SPECIAL PRECAUTIONS FOR HANDLING GAS CYLINDERS: WARNING! Compressed gases can present significant safety hazards. During cylinder use, use equipment designed for these specific cylinders. Ensure all lines and equipment are rated for proper service pressure.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 6 (Accidental Release Measures). Make certain that application equipment is locked and tagged-out safely. Always use product in areas where adequate ventilation is provided.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS: No special ventilation systems or engineering controls are needed under normal circumstances of use. As with all chemicals, use this gas mixture in well-ventilated areas. If this gas mixture is used in a poorly-ventilated area, install automatic monitoring equipment to detect the levels of Nitrous Oxide and Oxygen.

RESPIRATORY PROTECTION: No special respiratory protection is required under normal circumstances of use. Maintain oxygen levels above 19.5% in the workplace. Use supplied air respiratory protection when oxygen levels are below 19.5%, or during emergency response to a release of this gas mixture. During an emergency situation, before entering the area, check the concentration of Methane and Oxygen. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Standard (29 CFR 1910.134), applicable U.S. State regulations, or the Canadian CSA Standard Z94.4-93 and applicable standards of Canadian Provinces. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under OSHA's Respiratory Protection Standard (1910.134-1998).

EYE PROTECTION: Safety glasses. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

HAND PROTECTION: Wear leather gloves when handling cylinders. Chemically resistant gloves should be worn when using this gas mixture. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

BODY PROTECTION: No special protection is needed under normal circumstances of use. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

9. PHYSICAL and CHEMICAL PROPERTIES

The following information is for Nitrogen, a main component of this gas mixture.

GAS DENSITY @ 32°F (0°C) and 1 atm: 0.072 lbs/ ft^3 (1.153 kg/m^3)
BOILING POINT: -195.8°C (-320.4°F)
FREEZING/MELTING POINT @ 10 psig: -210°C (-345.8°F)
SPECIFIC GRAVITY (air = 1) @ 70°F (21.1°C): 0.906
pH: Not applicable.
SOLUBILITY IN WATER vol/vol @ 32°F (0°C) and 1 atm: 0.023
MOLECULAR WEIGHT: 28.01
EVAPORATION RATE (nBuAc = 1): Not applicable.
EXPANSION RATIO: Not applicable.
ODOR THRESHOLD: Not applicable.
SPECIFIC VOLUME (ft^3/lb): 13.8
VAPOR PRESSURE @ 70°F (21.1°C) psig: Not applicable.
COEFFICIENT WATER/OIL DISTRIBUTION: Not applicable.

The following information is for Oxygen, a main component of this gas mixture.

GAS DENSITY @ 32°F (0°C) and 1 atm: 0.083 lb/cu ft (1.326 kg/m^3)
FREEZING/MELTING POINT @ 10 psig: -218.8°C (-361.8°F)
BOILING POINT: -183.0°C (-297.4°F)
SPECIFIC GRAVITY (air = 1) @ 70°F (21.1°C): 1.105
pH: Not applicable.
SOLUBILITY IN WATER vol/vol at 32°F (0°C) and 1 atm: 0.04.91
MOLECULAR WEIGHT: 32.00
EVAPORATION RATE (nBuAc = 1): Not applicable.
EXPANSION RATIO: Not applicable.
ODOR THRESHOLD: Not applicable.
VOLUME (ft^3/lb): 12.1
VAPOR PRESSURE @ 70°F (21.1°C) psig: Not applicable.
COEFFICIENT WATER/OIL DISTRIBUTION: Not applicable.

The following information is for the gas mixture.

APPEARANCE AND COLOR: This is a colorless, odorless gas mixture.

HOW TO DETECT THIS SUBSTANCE (warning properties): There are no unusual warning properties associated with a release of this gas mixture. In terms of leak detection, fittings and joints can be painted with a soap solution to detect leaks, which will be indicated by a bubble formation.

10. STABILITY and REACTIVITY

STABILITY: Normally stable in gaseous state.
DECOMPOSITION PRODUCTS: The thermal decomposition products of Isobutylene include carbon oxides. The other components of this gas mixture do not decompose, per se, but can react with other compounds in the heat of a fire.
MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Titanium will burn in the Nitrogen component of this gas mixture. Lithium reacts slowly with Nitrogen at ambient temperatures. The Isobutylene component of this gas mixture is also incompatible with strong oxidizers (i.e. chlorine, bromine pentafluoride, oxygen difluoride, and nitrogen trifluoride).
HAZARDOUS POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID: Contact with incompatible materials. Cylinders exposed to high temperatures or direct flame can rupture or burst.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: The following toxicology data are available for the components of this gas mixture:

ISOBUTYLENE:
LC_{50} (inhalation, rat) = 620,000 mg/kg/4 hours
LC_{50} (inhalation, mouse) = 415,000 mg/kg
NITROGEN:
There are no specific toxicology data for Nitrogen. Nitrogen is a simple asphyxiant, which acts to displace oxygen in the environment.

SUSPECTED CANCER AGENT: The components of this gas mixture are not found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, and IARC; therefore, they are not considered to be, nor suspected to be, cancer-causing agents by these agencies.
IRRITANCY OF PRODUCT: Contact with rapidly expanding gases can be irritating to exposed skin and eyes.
SENSITIZATION TO THE PRODUCT: The components of this gas mixture are not known to cause human skin or respiratory sensitization.
REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of this gas mixture and its components on the human reproductive system.

Mutagenicity: No mutagenicity effects have been described for the components in this gas mixture.
Embryotoxcity: No embryotoxic effects have been described for the components in this gas mixture.
Teratogenicity: No teratogenicity effects have been described for the components in this gas mixture.
Reproductive Toxicity: No reproductive toxicity effects have been described for the components in gas mixture.

A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generation lines. An embryotoxin is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance which interferes in any way with the reproductive process.
BIOLOGICAL EXPOSURE INDICES (BEIs): Currently, Biological Exposure Indices (BEIs) are not applicable for the components of this gas mixture.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY: The components of this gas mixture occur naturally in the atmosphere. The gas will be dissipated rapidly in well-ventilated areas. The following environmental data are applicable to the components of this gas mixture.

OXYGEN: Water Solubility = 1 volume Oxygen/32 volumes water at 20°C. Log K_{ow} = -0.65
NITROGEN: Water Solubility = 2.4 volumes Nitrogen/100 volumes water at 0°C. 1.6 volumes Nitrogen/100 volumes water at 20°C.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: No evidence is currently available on the effects of this gas mixture on plant and animal life.
EFFECT OF CHEMICAL ON AQUATIC LIFE: No evidence is currently available on the effects of this gas mixture on aquatic life.

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Cylinders with undesired residual product may be safely vented outdoors with the proper regulator. For further information, refer to Section 16 (Other Information).

14. TRANSPORTATION INFORMATION

THIS GAS MIXTURE IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING NAME: Compressed gases, n.o.s. (*Oxygen, Nitrogen)*or the gas component with the next highest concentration next to Nitrogen.
HAZARD CLASS NUMBER and DESCRIPTION: 2.2 (Non-Flammable Gas)
UN IDENTIFICATION NUMBER: UN 1956
PACKING GROUP: Not applicable.
DOT LABEL(S) REQUIRED: Class 2.2 (Non-Flammable Gas)
NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2000): 126
MARINE POLLUTANT: The components of this gas mixture are not classified by the DOT as Marine Pollutants (as defined by 49 CFR 172.101, Appendix B).
SPECIAL SHIPPING INFORMATION: Cylinders should be transported in a secure position, in a well-ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles can present serious safety hazards. If transporting these cylinders in vehicles, ensure these cylinders are not exposed to extremely high temperatures (as may occur in an enclosed vehicle on a hot day). Additionally, the vehicle should be well-ventilated during transportation.
Note: DOT 39 Cylinders ship in a strong outer carton (overpack). Pertinent shipping information goes on the outside of the overpack. DOT 39 Cylinders do not have transportation information on the cylinder itself.

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This gas is considered as Dangerous Goods, per regulations of Transport Canada.

PROPER SHIPPING NAME: Compressed gases, n.o.s. (*Oxygen, Nitrogen)*or the gas component with the next highest concentration next to Nitrogen.
HAZARD CLASS NUMBER and DESCRIPTION: 2.2 (Non-Flammable Gas)
UN IDENTIFICATION NUMBER: UN 1956
PACKING GROUP: Not Applicable
HAZARD LABEL: Class 2.2 (Non-Flammable Gas)
SPECIAL PROVISIONS: None
EXPLOSIVE LIMIT AND LIMITED QUANTITY INDEX: 0.12
ERAP INDEX: None
PASSENGER CARRYING SHIP INDEX: None
PASSENGER CARRYING ROAD VEHICLE OR PASSENGER CARRYING RAILWAY VEHICLE INDEX: 75
NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2000): 126
NOTE: Shipment of compressed gas cylinders via Public Passenger Road Vehicle is a violation of Canadian law (Transport Canada Transportation of Dangerous Goods Act, 1992).

15. REGULATORY INFORMATION

ADDITIONAL U.S. REGULATIONS:
U.S. SARA REPORTING REQUIREMENTS: The components of this gas mixture are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.
U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for this gas mixture. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.
U.S. TSCA INVENTORY STATUS: The components of this gas mixture are listed on the TSCA Inventory.
U.S. CERCLA REPORTABLE QUANTITY (RQ): Not applicable.
OTHER U.S. FEDERAL REGULATIONS:

- No component of this gas mixture is subject to the requirements of CFR 29 1910.1000 (under the 1989 PELs).
- Isobutylene is subject to the reporting requirements of Section 112(r) of the Clean Air Act. The Threshold Quantity for this gas is 10,000 pounds.
- The regulations of the Process Safety Management of Highly Hazardous Chemicals are not applicable (29 CFR 1910.119).
- This gas mixture does not contain any Class I or Class II ozone depleting chemicals (40 CFR Part 82).

15. REGULATORY INFORMATION (continued)

- Nitrogen and Oxygen are not listed as Regulated Substances, per 40 CFR, Part 68, of the Risk Management for Chemical Releases. Isobutylene is listed under this regulation in Table 3 as Regulated Substances (Flammable Substances), in quantities of 10,000 lbs (4,554 kg) or greater.

U.S. STATE REGULATORY INFORMATION: The components of this gas mixture are covered under the following specific State regulations:

Alaska - Designated Toxic and Hazardous Substances: No.
California - Permissible Exposure Limits for Chemical Contaminants: Nitrogen.
Florida - Substance List: Oxygen, Isobutylene.
Illinois - Toxic Substance List: No.
Kansas - Section 302/313 List: No.
Massachusetts - Substance List: Oxygen, Isobutylene.
Michigan - Critical Materials Register: No.
Minnesota - List of Hazardous Substances: No.
Missouri - Employer Information/Toxic Substance List: No.
New Jersey - Right to Know Hazardous Substance List: Oxygen, Nitrogen, Isobutylene.
North Dakota - List of Hazardous Chemicals, Reportable Quantities: No.
Pennsylvania - Hazardous Substance List: Oxygen, Nitrogen, Isobutylene.
Rhode Island - Hazardous Substance List: Oxygen, Nitrogen.
Texas - Hazardous Substance List: No.
West Virginia - Hazardous Substance List: No.
Wisconsin - Toxic and Hazardous Substances: : No.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): No component of this gas mixture is on the California Proposition 65 lists.

ADDITIONAL CANADIAN REGULATIONS:
CANADIAN DSL/NDSL INVENTORY STATUS: The components of this gas mixture are listed on the DSL Inventory.
CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: The components of this gas mixture are not on the CEPA Priorities Substances Lists.
CANADIAN WHMIS REGULATIONS: This gas mixture is categorized as a Controlled Product, Hazard Class A, as per the Controlled Product Regulations.

16. OTHER INFORMATION

INFORMATION ABOUT DOT-39 NRC (Non-Refillable Cylinder) PRODUCTS

DOT 39 cylinders ship as hazardous materials when full. Once the cylinders are relieved of pressure (empty) they are not considered hazardous material or waste. Residual gas in this type of cylinder is not an issue because toxic gas mixtures are prohibited. Calibration gas mixtures typically packaged in these cylinders are Nonflammable n.o.s., UN 1956. A small percentage of calibration gases packaged in DOT 39 cylinders are flammable or oxidizing gas mixtures.

For disposal of used DOT-39 cylinders, it is acceptable to place them in a landfill if local laws permit. Their disposal is no different than that employed with other DOT containers such as spray paint cans, household aerosols, or disposable cylinders of propane (for camping, torch etc.). When feasible, we recommended recycling for scrap metal content. CALGAZ will do this for any customer that wishes to return cylinders to us prepaid. All that is required is a phone call to make arrangements so we may anticipate arrival. Scrapping cylinders involves some preparation before the metal dealer may accept them. We perform this operation as a service to valued customers who want to participate.

MIXTURES: When two or more gases or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

Further information about the handling of compressed gases can be found in the following pamphlets published by: Compressed Gas Association Inc. (CGA), 1725 Jefferson Davis Highway, Suite 1004, Arlington, VA 22202-4102. Telephone: (703) 412-0900.

P-1 *"Safe Handling of Compressed Gases in Containers"*
AV-1 *"Safe Handling and Storage of Compressed Gases"*
"Handbook of Compressed Gases"

PREPARED BY:

CHEMICAL SAFETY ASSOCIATES, Inc.
PO Box 3519, La Mesa, CA 91944-3519
619/670-0609
Fax on Demand: 1-800/231-1366

AIR LIQUIDE

This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this gas mixture. To the best of CALGAZ knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this gas mixture is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

SAFETY DATA SHEET

Creation Date 08-Nov-2010 **Revision Date** 18-Jun-2015 **Revision Number** 2

1. Identification

Product Name **Fluoranthene**

Cat No. : **AC119170000; AC119170250; AC119171000; AC119175000**

Synonyms Benzo[j,k]fluorene

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4

Label Elements

Signal Word
Warning

Hazard Statements
Harmful if swallowed

Precautionary Statements
Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Fluoranthene	206-44-0	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion Do not induce vomiting. Get medical attention.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO_2). Dry chemical. alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point 100 °C / 212 °F
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO_2)
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	0	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.

Environmental Precautions See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. Handling and storage

Handling Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist. Avoid dust formation.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Light green
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	109 - 111 °C / 228.2 - 231.8 °F
Boiling Point/Range	384 - 34 °C / 723.2 - 93.2 °F
Flash Point	100 °C / 212 °F
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C16 H10
Molecular Weight	202.25

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Fluoranthene	2 g/kg (Rat)	3180 mg/kg (Rabbit)	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Fluoranthene	206-44-0	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Fluoranthene	Not listed	Oncorhynchus mykiss: LC50=0.0077 mg/L 96h	Not listed	EC50: 0.78 mg/L 20h

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility .

Component	log Pow
Fluoranthene	5.33

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Fluoranthene - 206-44-0	U120	-

14. Transport information

DOT
- **UN-No** UN3077
- **Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID, N.O.S.
- **Proper technical name** (Fluoranthene)
- **Hazard Class** 9
- **Packing Group** III

TDG
- **UN-No** UN3077
- **Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID, N.O.S.
- **Hazard Class** 9
- **Packing Group** III

IATA
- **UN-No** UN3077
- **Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s
- **Hazard Class** 9
- **Packing Group** III

IMDG/IMO
- **UN-No** UN3077
- **Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s
- **Hazard Class** 9
- **Packing Group** III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Fluoranthene	X	-	X	205-912-4	-		-	X	X	X	-

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Fluoranthene	206-44-0	>95	1.0 0.1

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Fluoranthene	-	-	X	X

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Fluoranthene	100 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Fluoranthene	X	X	X	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D1B Toxic materials

16. Other information

Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date	08-Nov-2010
Revision Date	18-Jun-2015
Print Date	18-Jun-2015
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

Safety Data Sheet

Material Name: Fuel Oil No. 2

SDS No. 0088
EU/CLP GHS

Synonyms: #2 Heating Oil; 2 Oil; Off-road Diesel Fuel

* * * Section 1 - Product and Company Identification * * *

Manufacturer Information

Hess Corporation
1 Hess Plaza
Woodbridge, NJ 07095-0961

Phone: 732-750-6000 Corporate EHS
Emergency # 800-424-9300 CHEMTREC
www.hess.com (Environment, Health, Safety Internet Website)

* * * Section 2 - Hazards Identification * * *

GHS Classification:

Flammable Liquids - Category 3
Acute Toxicity, Inhalation - Category 4
Skin Corrosion/Irritation – Category 2
Eye Damage/Irritation – Category 2
Carcinogenicity - Category 2
Specific Target Organ Toxicity (Single Exposure) – Category 3 (respiratory irritation, narcosis)
Aspiration Hazard – Category 1
Hazardous to the Aquatic Environment, Acute Hazard – Category 3

GHS LABEL ELEMENTS

Symbol(s)

Signal Word

DANGER

Hazard Statements

Flammable liquid and vapor.
Harmful if inhaled.
Causes skin irritation.
Causes eye irritation.
Suspected of causing cancer.
Suspected of causing genetic defects.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May be fatal if swallowed and enters airways.
Harmful to aquatic life.

Precautionary Statements

Prevention

Keep away from heat/sparks/open flames/hot surfaces. No smoking
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.
Avoid breathing fume/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Wash hands and forearms thoroughly after handling.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid release to the environment.

Response

In case of fire: Use water spray, fog or foam.
If on skin (or hair): Wash with plenty of soap and water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs, get medical advice/attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If exposed or concerned: Get medical advice/attention.
If swallowed: Immediately all a poison center or doctor/physician if you feel unwell. Do NOT induce vomiting.

Storage

Store in a well ventilated place.
Keep cool. Keep container tightly closed.
Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

* * * Section 3 - Composition / Information on Ingredients * * *

CAS #	Component	Percent
68476-30-2	Fuel oil No. 2	100
91-20-3	Naphthalene	<0.1

A complex combination of hydrocarbons with carbon numbers in the range C9 and higher produced from the distillation of petroleum crude oil.

* * * Section 4 - First Aid Measures * * *

First Aid: Eyes

In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

First Aid: Skin

Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or with waterless hand cleanser. Obtain medical attention if irritation or redness develops.

First Aid: Ingestion

DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

First Aid: Inhalation

Remove person to fresh air. If person is not breathing, provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

* * * Section 5 - Fire Fighting Measures * * *

General Fire Hazards

See Section 9 for Flammability Properties.

Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

Extinguishing Media

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO_2, water spray, fire fighting foam, or gaseous extinguishing agent.

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment. Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing. Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

* * * Section 6 - Accidental Release Measures * * *

Recovery and Neutralization

Carefully contain and stop the source of the spill, if safe to do so.

Materials and Methods for Clean-Up

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal.

Emergency Measures

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Personal Precautions and Protective Equipment

Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

Environmental Precautions

Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

Prevention of Secondary Hazards

None

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Handle as a combustible liquid. Keep away from heat, sparks, excessive temperatures and open flame! No smoking or open flame in storage, use or handling areas. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when this product is loaded into tanks previously containing low flash point products (such as gasoline) - see API Publication 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents."

Storage Procedures

Keep containers closed and clearly labeled. Use approved vented storage containers. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks."

Incompatibilities

Keep away from strong oxidizers; Fluorel ®

* * * Section 8 - Exposure Controls / Personal Protection * * *

Component Exposure Limits

Fuel oil No. 2 (270-671-4)

ACGIH: 100 mg/m3 TWA (inhalable fraction and vapor, as total hydrocarbons, listed under Diesel fuel)
Skin - potential significant contribution to overall exposure by the cutaneous route (listed under Diesel fuel)

Belgium: 100 mg/m3 TWA (as total hydrocarbon, aerosol and vapor)
Skin (listed under Gas oil)

Portugal: 100 mg/m3 TWA [VLE-MP] (aerosol and vapor, as total Hydrocarbons, listed under Fuel diesel)

Naphthalene (202-049-5)

ACGIH: 15 ppm STEL
10 ppm TWA
Skin - potential significant contribution to overall exposure by the cutaneous route

Austria: 10 ppm TWA [TMW]; 50 mg/m3 TWA [TMW]
skin notation

Belgium: 15 ppm STEL; 80 mg/m3 STEL
10 ppm TWA; 53 mg/m3 TWA
Skin

Denmark: 10 ppm TWA; 50 mg/m3 TWA

Finland: 2 ppm STEL; 10 mg/m3 STEL
1 ppm TWA; 5 mg/m3 TWA

France: 10 ppm TWA [VME]; 50 mg/m3 TWA [VME]

Germany: 0.1 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when MAK and BAT values are observed, inhalable fraction, exposure factor 1); 0.5 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when MAK and BAT values are observed, inhalable fraction, exposure factor 1)

Greece: 10 ppm TWA; 50 mg/m3 TWA

Ireland: 15 ppm STEL; 75 mg/m3 STEL
10 ppm TWA; 50 mg/m3 TWA

Netherlands: 80 mg/m3 STEL
50 mg/m3 TWA

Portugal: 10 ppm TWA [VLE-MP]

Spain: 15 ppm STEL [VLA-EC]; 80 mg/m3 STEL [VLA-EC]
10 ppm TWA [VLA-ED]; 53 mg/m3 TWA [VLA-ED]
skin - potential for cutaneous exposure

Sweden: 10 ppm LLV; 50 mg/m3 LLV
15 ppm STV; 80 mg/m3 STV

Engineering Measures

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

Personal Protective Equipment: Respiratory

A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

Personal Protective Equipment: Hands

Gloves constructed of nitrile, neoprene, or PVC are recommended.

Personal Protective Equipment: Eyes

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

Personal Protective Equipment: Skin and Body

Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information.

* * * Section 9 - Physical & Chemical Properties * * *

Appearance:	Red or reddish/orange colored (dyed)	**Odor:**	Mild, petroleum distillate odor
Physical State:	Liquid	**pH:**	ND
Vapor Pressure:	0.009 psia @ 70 °F (21 °C)	**Vapor Density:**	>1.0
Boiling Point:	340 to 700 °F (171 to 371 °C)	**Melting Point:**	ND
Solubility (H2O):	Negligible	**Specific Gravity:**	AP 0.823-0871
Evaporation Rate:	Slow; varies with conditions	**VOC:**	ND
Octanol/H2O Coeff.:	ND	**Flash Point:**	100 °F (38 °C) minimum
Flash Point Method:	PMCC	**Upper Flammability Limit (UFL):**	7.5
Lower Flammability Limit (LFL):	0.6	**Burning Rate:**	ND
Auto Ignition:	494°F (257°C)		

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources.

Incompatible Products

Keep away from strong oxidizers; Fluorel ®

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

* * * Section 11 - Toxicological Information * * *

Acute Toxicity

A: General Product Information

Harmful if swallowed.

B: Component Analysis - LD50/LC50

Fuel oil No. 2 (68476-30-2)

Oral LD50 Rat 12 g/kg; Dermal LD50 Rabbit 4720 µL/kg; Dermal LD50 Rabbit >2000 mg/kg; Inhalation LC50 Rat 4.6 mg/L 4 h

Naphthalene (91-20-3)

Inhalation LC50 Rat >340 mg/m3 1 h; Oral LD50 Rat 490 mg/kg; Dermal LD50 Rat >2500 mg/kg; Dermal LD50 Rabbit >20 g/kg

Product Mixture

Oral LD50 Rat 14.5 ml/kg; Dermal LD50 Rabbit >5 mL/kg; Guinea Pig Sensitization: negative; Primary dermal irritation: moderately irritating (Draize mean irritation score - 3.98 rabbits); Draize eye irritation: mildly irritating (Draize score, 48 hours, unwashed - 2.0 rabbits)

Potential Health Effects: Skin Corrosion Property/Stimulativeness

Practically non-toxic if absorbed following acute (single) exposure. May cause skin irritation with prolonged or repeated contact. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are repeatedly exposed.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

Contact with eyes may cause mild irritation.

Potential Health Effects: Ingestion

Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

Potential Health Effects: Inhalation

Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

WARNING: the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any skin sensitization effects.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects. Material of similar composition has been positive in a mutagenicity study.

Carcinogenicity

A: General Product Information

Suspected of causing cancer.

Dermal carcinogenicity: positive - mice

Studies have shown that similar products produce skin tumors in laboratory animals following repeated applications without washing or removal. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal's skin with soap and water between applications reduced tumor formation.

This product is similar to Diesel Fuel. IARC classifies whole diesel fuel exhaust particulates as probably carcinogenic to humans (Group 2A) and NIOSH regards it as a potential cause of occupational lung cancer based on animal studies and limited evidence in humans.

B: Component Carcinogenicity

Fuel oil No. 2 (68476-30-2)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans (listed under Diesel fuel)

Naphthalene (91-20-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen
NTP: Reasonably Anticipated To Be A Human Carcinogen (Possible Select Carcinogen)
IARC: Monograph 82 [2002] (Group 2B (possibly carcinogenic to humans))

Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any specific target organ general toxicity single exposure effects.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ general toxicity repeat exposure effects.

Aspiration Respiratory Organs Hazard

The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

* * * Section 12 - Ecological Information * * *

Ecotoxicity

A: General Product Information

Very toxic to aquatic life with long lasting effects. Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable, under Federal and State regulations.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Fuel oil No. 2 (68476-30-2)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	35 mg/L [flow-through]	

Naphthalene (91-20-3)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	5.74-6.44 mg/L [flow-through]	
96 Hr LC50 Oncorhynchus mykiss	1.6 mg/L [flow-through]	

96 Hr LC50 Oncorhynchus mykiss	0.91-2.82 mg/L [static]
96 Hr LC50 Pimephales promelas	1.99 mg/L [static]
96 Hr LC50 Lepomis macrochirus	31.0265 mg/L [static]
72 Hr EC50 Skeletonema costatum	0.4 mg/L
48 Hr LC50 Daphnia magna	2.16 mg/L
48 Hr EC50 Daphnia magna	1.96 mg/L [Flow through]
48 Hr EC50 Daphnia magna	1.09 - 3.4 mg/L [Static]

Persistence/Degradability

No information available.

Bioaccumulation

No information available.

Mobility in Soil

No information available.

* * * Section 13 - Disposal Considerations * * *

Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

Dispose of contents/container in accordance with local/regional/national/international regulations.

* * * Section 14 - Transportation Information * * *

IATA Information

Shipping Name: Heating oil, light
UN #: 1202 **Hazard Class:** 3 **Packing Group:** III

ICAO Information

Shipping Name: Heating oil, light
UN #: 1202 **Hazard Class:** 3 **Packing Group:** III

IMDG Information

Shipping Name: Heating oil, light
UN #: 1202 **Hazard Class:** 3 **Packing Group:** III

* * * Section 15 - Regulatory Information * * *

Regulatory Information

Component Analysis – Inventory

Component/CAS	EC #	EEC	CAN	TSCA
Fuel oil No. 2 68476-30-2	270-671-4	EINECS	DSL	Yes
Naphthalene 91-20-3	202-049-5	EINECS	DSL	Yes

* * * Section 16 - Other Information * * *

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

Literature References

None

Other Information

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

End of Sheet

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.2
Revision Date 23.06.2020
Print Date 19.06.2021
GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name	:	trans-Chlordane
Product Number	:	ERC-004
Brand	:	Cerilliant
REACH No.	:	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
CAS-No.	:	5103-74-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich Inc. 3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES
Telephone	:	+1 314 771-5765
Fax	:	+1 800 325-5052

1.4 Emergency telephone

Emergency Phone #	:	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 4), H332
Carcinogenicity (Category 2), H351
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

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Pictogram	
Signal word	Danger
Hazard statement(s)	
H301	Toxic if swallowed.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P273	Avoid release to the environment.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
Supplemental Hazard Statements	none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Molecular weight	:	409,78 g/mol
CAS-No.	:	5103-74-2
EC-No.	:	225-826-0

Component	Classification	Concentration
trans-Chlordane		
	Acute Tox. 3; Acute Tox. 4; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H301, H332, H351, H400, H410 M-Factor - Aquatic Acute: 10	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

Consult a physician. Show this material safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

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In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

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7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Color: white
b)	Odor	odorless

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c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Relative density	1,590 g/cm3
n)	Water solubility	insoluble
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available

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Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 200 mg/kg
LD50 Oral - Mouse - 145 mg/kg
Inhalation: (Regulation (EC) No 1272/2008, Annex VI)

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity

Carcinogenicity
Suspected of causing cancer.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (trans-Chlordane)

Reproductive toxicity

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 0,044 mg/l - 96,0 h Remarks: (in analogy to similar products)
	LOEC - Pimephales promelas (fathead minnow) - 0,025 mg/l - 48,0 h Remarks: (in analogy to similar products)

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Toxicity to daphnia and other aquatic invertebrates	LOEC - Daphnia magna (Water flea) - 0,07 mg/l - 48 h Remarks: (in analogy to similar products)
	LC50 - Daphnia magna (Water flea) - 0,0984 mg/l - 48 h Remarks: (in analogy to similar products)

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects
Very toxic to aquatic life with long lasting effects.
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number
ADR/RID: 3077 IMDG: 3077 IATA: 3077

14.2 UN proper shipping name
ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (trans-Chlordane)
IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (trans-Chlordane)
IATA: Environmentally hazardous substance, solid, n.o.s. (trans-Chlordane)

14.3 Transport hazard class(es)
ADR/RID: 9 IMDG: 9 IATA: 9

14.4 Packaging group
ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards
ADR/RID: yes IMDG Marine pollutant: yes IATA: yes

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14.6 Special precautions for user

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H301	Toxic if swallowed.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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SAFETY DATA SHEET

SDS ID NO.: 0127MAR019
Revision Date: 06/01/2016

1. IDENTIFICATION

Product Name: Marathon Petroleum Gasoline - All Grades

Synonym: Gasoline; Regular Unleaded Gasoline; Conventional Regular Unleaded Gasoline; Mid Grade Unleaded Gasoline; Conventional Mid Grade Unleaded Gasoline; Premium Unleaded Gasoline; Conventional Premium Unleaded Gasoline; Sub-Octane Gasoline; Regular RBOB; Super RBOB; Premium RBOB; RBOB; Reformulated Blend Stock For Oxygenated Blending; 84 Octane Gasoline; CBOB; Premium CBOB; Conventional Blend Stock for Oxygenate Blending; Recreational Gasoline; Recreational Gasoline; Recreational Unleaded Gasoline; 89 Recreational Gasoline; Brand 89 Recreational Gasoline; 7.0 Max RVP 89 Recreational Gasoline; BR 7.0 Max RVP 89 Recreational Gasoline; 90 Recreational Gasoline; 90 Marina Gasoline; Brand 91 Recreational Gasoline; 91 Recreational Gasoline; 91 Marina Gasoline; 90 Octane Midgrade Gasoline with No Ethanol; 0125MAR019; 0126MAR019; 0134MAR019; 0313MAR019; 0314MAR019

Chemical Family: Complex Hydrocarbon Substance

Recommended Use: Fuel.
Restrictions on Use: All others.

Manufacturer, Importer, or Responsible Party Name and Address:

MARATHON PETROLEUM COMPANY LP
539 South Main Street
Findlay, OH 45840

SDS information: 1-419-421-3070

Emergency Telephone: 1-877-627-5463

2. HAZARD IDENTIFICATION

Classification

OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 1
Skin corrosion/irritation	Category 2
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1B
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2

Hazards Not Otherwise Classified (HNOC)

Static accumulating flammable liquid

Label elements

EMERGENCY OVERVIEW

Danger

EXTREMELY FLAMMABLE LIQUID AND VAPOR
May accumulate electrostatic charge and ignite or explode
May be fatal if swallowed and enters airways
Causes skin irritation
May cause respiratory irritation
May cause drowsiness or dizziness
May cause genetic defects
May cause cancer
Suspected of damaging fertility or the unborn child
Toxic to aquatic life with long lasting effects

Appearance Clear yellow liquid **Physical State** Liquid **Odor** Hydrocarbon

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Use only non-sparking tools.
Take precautionary measures against static discharge
Avoid breathing mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection
Wash hands and any possibly exposed skin thoroughly after handling
Avoid release to the environment

Precautionary Statements - Response
IF exposed or concerned: Get medical attention
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
If skin irritation occurs: Get medical attention
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor if you feel unwell
IF SWALLOWED: Immediately call a POISON CENTER or doctor
Do NOT induce vomiting
In case of fire: Use water spray, fog or regular foam for extinction
Collect spillage

Precautionary Statements - Storage
Store in a well-ventilated place. Keep container tightly closed
Keep cool
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container at an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Gasoline is a complex combination of hydrocarbons consisting of paraffins, cycloparaffins, aromatic and olefinic hydrocarbons having molecular chains ranging in length from four to ten carbons. May contain small amounts of dye and other additives (>0.02%) which are not considered hazardous at the concentrations used.

Composition Information:

Name	CAS Number	% Concentration
Gasoline	86290-81-5	100
Heptane (mixed isomers)	142-82-5	2.5-26
Pentane (mixed isomers)	78-78-4	6.5-19
Butane (mixed isomers)	106-97-8	0.5-14
Hexane Isomers (other than n-Hexane)	107-83-5	2-12
Toluene	108-88-3	3-9.5
Xylene (mixed isomers)	1330-20-7	3.5-9.5
n-Hexane	110-54-3	0.1-4.5
Cumene	98-82-8	0-4
1,2,4 Trimethylbenzene	95-63-6	1-4
Ethylbenzene	100-41-4	0.5-2.5
Benzene	71-43-2	0.1-1.5
Cyclohexane	110-82-7	0-1.5
Octane	111-65-9	0-1.5
1,2,3-trimethylbenzene	526-73-8	0-1
Naphthalene	91-20-3	0.1-0.5

All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

4. FIRST AID MEASURES

First Aid Measures

General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show directions for use or safety data sheet if possible).

Inhalation: Remove to fresh air. If not breathing, institute rescue breathing. If breathing is difficult, ensure airway is clear, give oxygen and continue to monitor. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). Keep affected person warm and at rest. If symptoms occur get medical attention.

Skin Contact: Immediately wash exposed skin with plenty of soap and water while removing contaminated clothing and shoes. May be absorbed through the skin in harmful amounts. Get medical attention if irritation persists. Any injection injury from high pressure equipment should be evaluated immediately by a physician as potentially serious (See NOTES TO PHYSICIAN).

Place contaminated clothing in closed container until cleaned or discarded. If clothing is to be laundered, inform the person performing the operation of contaminant's hazardous properties. Destroy contaminated, non-chemical resistant footwear.

Eye Contact: Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Gently remove contacts while flushing. Get medical attention if irritation persists.

Ingestion: Do not induce vomiting because of danger of aspirating liquid into lungs, causing serious damage and chemical pneumonitis. If spontaneous vomiting occurs, keep head below hips, or if patient is lying down, turn body and head to side to prevent aspiration and monitor for breathing difficulty. Never give anything by mouth to an unconscious person. Keep affected person warm and at rest. GET IMMEDIATE MEDICAL ATTENTION.

Most important signs and symptoms, both short-term and delayed with overexposure

Adverse Effects: Irritating to the skin and mucous membranes. Symptoms may include redness, itching, and inflammation. May cause nausea, vomiting, diarrhea, and signs of nervous system depression: headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue. Aspiration hazard. May cause coughing, chest pains, shortness of breath, pulmonary edema and/or chemical pneumonitis. Repeated or prolonged skin contact may cause drying, reddening, itching and cracking.

Indication of any immediate medical attention and special treatment needed

Notes To Physician: INHALATION: This material (or a component) sensitizes the myocardium to the effects of sympathomimetic amines. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in individuals exposed to this material. Administration of sympathomimetic drugs should be avoided.

SKIN: Leaks or accidents involving high-pressure equipment may inject a stream of material through the skin and initially produce an injury that may not appear serious. Only a small puncture wound may appear on the skin surface but, without proper treatment and depending on the nature, original pressure, volume, and location of the injected material, can compromise blood supply to an affected body part. Prompt surgical debridement of the wound may be necessary to prevent irreversible loss of function and/or the affected body part. High pressure injection injuries may be SERIOUS SURGICAL EMERGENCIES.

INGESTION: This material represents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFF/ATC) can be used. Firefighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

Unsuitable extinguishing media
Do not use straight water streams to avoid spreading fire.

Specific hazards arising from the chemical
This product has been determined to be an extremely flammable liquid per the OSHA Hazard Communication Standard and should be handled accordingly. May accumulate electrostatic charge and ignite or explode. Vapors may travel along the ground or be moved by ventilation and ignited by many sources such as pilot lights, sparks, electric motors, static discharge, or other ignition sources at locations distant from material handling. Flashback can occur along vapor trail. For additional fire related information, see NFPA 30 or the Emergency Response Guidebook 128.

Hazardous combustion products
Smoke, carbon monoxide, and other products of incomplete combustion.

Explosion data
Sensitivity to Mechanical Impact No.
Sensitivity to Static Discharge Yes.

Special protective equipment and precautions for firefighters
Firefighters should wear full protective clothing and positive-pressure self-contained breathing apparatus (SCBA) with a full face-piece, as appropriate. Avoid using straight water streams. Water may be ineffective in extinguishing low flash point fires, but can be used to cool exposed surfaces. Avoid excessive water spray application. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Keep run-off water out of sewers and water sources.

Additional firefighting tactics
FIRES INVOLVING TANKS OR CAR/TRAILER LOADS: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after the fire is out. Do not direct water at source of leak or safety devices; icing may occur. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles: if this is impossible, withdraw from area and let fire burn.

EVACUATION: Consider initial downwind evacuation for at least 1000 feet. If tank, rail car or tank truck is involved in a fire, ISOLATE for 5280 feet (1 mile) in all directions; also, consider initial evacuation of 5280 feet (1 mile) in all directions.

NFPA	Health 1	Flammability 3	Instability 0	Special Hazard -

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Eliminate all ignition sources.
Protective equipment:	Use personal protection measures as recommended in Section 8.
Emergency procedures:	Advise authorities and National Response Center (800-424-8802) if the product has entered a water course or sewer. Notify local health and pollution control agencies, if appropriate.
Environmental precautions:	Avoid release to the environment. Avoid subsoil penetration. Ethanol in gasoline phase seperates in contact with water. Monitor downstream for dissolved ethanol or other appropriate indicators.
Methods and materials for containment:	Contain liquid with sand or soil. Prevent spilled material from entering storm drains, sewers, and open waterways.
Methods and materials for cleaning up:	Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids. Recover and return free product to proper containers. When recovering free liquids ensure all equipment is grounded and bonded. Use only non-sparking tools.

7. HANDLING AND STORAGE

Safe Handling Precautions:

NEVER SIPHON THIS PRODUCT BY MOUTH. Use appropriate grounding and bonding practices. Static accumulating flammable liquid. Bonding and grounding may be insufficient to eliminate the hazard from static electricity. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. Vapors may travel along the ground or be moved by ventilation. Flashback may occur along vapor trails. No smoking. Use only non-sparking tools. Avoid contact with skin, eyes and clothing. Avoid breathing fumes, gas, or vapors. Use only with adequate ventilation. Avoid repeated and prolonged skin contact. Use personal protection measures as recommended in Section 8. Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water. Do not cut, drill, grind or weld on empty containers since explosive residues may remain. Refer to applicable EPA, OSHA, NFPA and consistent state and local requirements.

Hydrocarbons are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering, pumping at high flow rates or loading and transfer operations. If this charge reaches a sufficiently high level, sparks can form that may ignite the vapors of flammable liquids. Sudden release of hot organic chemical vapors or mists from process equipment operating under elevated temperature and pressure, or sudden ingress of air into vacuum equipment may result in ignition of vapors or mists without the presence of obvious ignition sources. Nozzle spouts must be kept in contact with the containers or tank during the entire filling operation.

Portable containers should never be filled while in or on a motor vehicle or marine craft. Containers should be placed on the ground. Static electric discharge can ignite fuel vapors when filling non-grounded containers or vehicles on trailers. The nozzle spout must be kept in contact with the container before and during the entire filling operation. Use only approved containers.

A buildup of static electricity can occur upon re-entry into a vehicle during fueling especially in cold or dry climate conditions. The charge is generated by the action of dissimilar fabrics (i.e., clothing and upholstery) rubbing across each other as a person enters/exits the vehicle. A flash fire can result from this discharge if sufficient flammable vapors are present. Therefore, do not get back in your vehicle while refueling.

Cellular phones and other electronic devices may have the potential to emit electrical charges (sparks). Sparks in potentially explosive atmospheres (including fueling areas such as gas stations) could cause an explosion if sufficient flammable vapors are present. Therefore, turn off cellular phones and other electronic devices when working in potentially explosive atmospheres or keep devices inside your vehicle during refueling.

High-pressure injection of any material through the skin is a serious medical emergency even though the small entrance wound at the injection site may not initially appear serious. These injection injuries can occur from high-pressure equipment such as paint spray or grease or guns, fuel injectors, or pinhole leaks in hoses or hydraulic lines and should all be considered serious. High pressure injection injuries may be SERIOUS SURGICAL EMERGENCIES (See First Aid Section 4).

Storage Conditions:

Store in properly closed containers that are appropriately labeled and in a cool, well-ventilated area. Do not store near an open flame, heat or other sources of ignition.

Incompatible Materials

Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	ACGIH TLV	OSHA PELS:	OSHA - Vacated PELs	NIOSH IDLH
Gasoline 86290-81-5	300 ppm TWA 500 ppm STEL	-	300 ppm TWA 900 mg/m^3 TWA 500 ppm STEL 1500 mg/m^3 STEL	-

Heptane (mixed isomers) 142-82-5	400 ppm TWA 500 ppm STEL	TWA: 500 ppm TWA: 2000 mg/m³	400 ppm TWA 1600 mg/m³ TWA 500 ppm STEL 2000 mg/m³ STEL	750 ppm
Pentane (mixed isomers) 78-78-4	1000 ppm TWA	-	-	-
Butane (mixed isomers) 106-97-8	1000 ppm STEL	-	800 ppm TWA 1900 mg/m³ TWA	-
Hexane Isomers (other than n-Hexane) 107-83-5	500 ppm TWA 1000 ppm STEL	-	500 ppm TWA 1800 mg/m³ TWA 1000 ppm STEL 3600 mg/m³ STEL	-
Toluene 108-88-3	20 ppm TWA	TWA: 200 ppm Ceiling: 300 ppm	100 ppm TWA 375 mg/m³ TWA 150 ppm STEL 560 mg/m³ STEL	500 ppm
Xylene (mixed isomers) 1330-20-7	100 ppm TWA 150 ppm STEL	TWA: 100 ppm TWA: 435 mg/m³	100 ppm TWA 435 mg/m³ TWA 150 ppm STEL 655 mg/m³ STEL	900 ppm
n-Hexane 110-54-3	50 ppm TWA Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 500 ppm TWA: 1800 mg/m³	50 ppm TWA 180 mg/m³ TWA	1100 ppm
Cumene 98-82-8	50 ppm TWA	TWA: 50 ppm TWA: 245 mg/m³ Skin	50 ppm TWA 245 mg/m³ TWA Limit applies to skin	900 ppm
1,2,4 Trimethylbenzene 95-63-6	25 ppm TWA	-	25 ppm TWA 125 mg/m³ TWA	-
Ethylbenzene 100-41-4	20 ppm TWA	TWA: 100 ppm TWA: 435 mg/m³	100 ppm TWA 435 mg/m³ TWA 125 ppm STEL 545 mg/m³ STEL	800 ppm
Benzene 71-43-2	0.5 ppm TWA 2.5 ppm STEL Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 10 ppm (applies to industry segments exempt from the benzene standard) TWA: 1 ppm STEL: 5 ppm (see 29 CFR 1910.1028)	25 ppm Ceiling 1 ppm TWA 5 ppm STEL	500 ppm
Cyclohexane 110-82-7	100 ppm TWA	TWA: 300 ppm TWA: 1050 mg/m³	300 ppm TWA 1050 mg/m³ TWA	1300 ppm
Octane 111-65-9	300 ppm TWA	TWA: 500 ppm TWA: 2350 mg/m³	300 ppm TWA 1450 mg/m³ TWA 375 ppm STEL 1800 mg/m³ STEL	1000 ppm
1,2,3-trimethylbenzene 526-73-8	25 ppm TWA	-	25 ppm TWA 125 mg/m³ TWA	-
Naphthalene 91-20-3	10 ppm TWA Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 10 ppm TWA: 50 mg/m³	10 ppm TWA 50 mg/m³ TWA 15 ppm STEL 75 mg/m³ STEL	250 ppm

Notes: The manufacturer has voluntarily elected to provide exposure limits contained in OSHA's 1989 air contaminants standard in its SDSs, even though certain of those exposure limits were vacated in 1992.

Engineering measures: Local or general exhaust required in an enclosed area or when there is inadequate ventilation. Use mechanical ventilation equipment that is explosion-proof.

Personal protective equipment

Eye protection:	Use goggles or face-shield if the potential for splashing exists.
Skin and body protection:	Use nitrile rubber, Viton® or PVA gloves for repeated or prolonged skin exposure. Glove suitability is based on workplace conditions and usage. Contact the glove manufacturer for specific advice on glove selection and breakthrough times.
Respiratory protection:	Use a NIOSH approved organic vapor chemical cartridge or supplied air respirators when there is the potential for airborne exposures to exceed permissible exposure limits or if excessive vapors are generated. Observe respirator assigned protection factors (APFs) criteria cited in federal OSHA 29 CFR 1910.134. Self-contained breathing apparatus should be used for fire fighting.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Clear yellow liquid
Color	Yellow
Odor	Hydrocarbon
Odor Threshold	No data available.

Property	**Values (Method)**
Melting Point / Freezing Point	No data available.
Initial Boiling Point / Boiling Range	24-210 °C / 75-410 °F (ASTM D86)
Flash Point	-43 °C / -45 °F
Evaporation Rate	No data available.
Flammability (solid, gas)	Not applicable.
Flammability Limit in Air (%):	
Upper Flammability Limit:	7.6
Lower Flammability Limit:	1.4
Explosion limits:	No data available.
Vapor Pressure	5.5-15 psi (ASTM D4814)
Vapor Density	3-4
Specific Gravity / Relative Density	0.70-0.76
Water Solubility	No data available.
Solubility in other solvents	No data available.
Partition Coefficient	2.13-4.5
Decomposition temperature	No data available.
pH:	Not applicable
Autoignition Temperature	280 °C / 536 °F
Kinematic Viscosity	No data available.
Dynamic Viscosity	No data available.
Explosive Properties	No data available.
VOC Content (%)	100%
Density	No data available.
Bulk Density	Not applicable.

10. STABILITY AND REACTIVITY

Reactivity	The product is non-reactive under normal conditions.
Chemical stability	The material is stable at 70°F, 760 mmHg pressure.
Possibility of hazardous reactions	None under normal processing.
Hazardous polymerization	Will not occur.

Conditions to avoid Excessive heat, sources of ignition, open flame.

Incompatible Materials Strong oxidizing agents.

Hazardous decomposition products None known under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Potential short-term adverse effects from overexposures

Inhalation May cause irritation of respiratory tract. May cause drowsiness or dizziness. Breathing high concentrations of this material in a confined space or by intentional abuse can cause irregular heartbeats which can cause death.

Eye contact Exposure to vapor or contact with liquid may cause mild eye irritation, including tearing, stinging, and redness.

Skin contact Causes skin irritation. Effects may become more serious with repeated or prolonged contact. May be absorbed through the skin in harmful amounts.

Ingestion May be fatal if swallowed or vomited and enters airways. May cause irritation of the mouth, throat and gastrointestinal tract.

Acute toxicological data

Name	Oral LD50	Dermal LD50	Inhalation LC50
Gasoline 86290-81-5	14000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Heptane (mixed isomers) 142-82-5	-	3000 mg/kg (Rabbit)	103 g/m^3 (Rat) 4 h
Pentane (mixed isomers) 78-78-4	-	-	450 mg/L (Mouse) 2 h
Butane (mixed isomers) 106-97-8	-	-	658 mg/L (Rat) 4 h
Hexane Isomers (other than n-Hexane) 107-83-5	> 5000 mg/kg (Rat)	-	-
Toluene 108-88-3	> 2000 mg/kg (Rat)	8390 mg/kg (Rabbit)	12.5 mg/L (Rat) 4 h
Xylene (mixed isomers) 1330-20-7	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.04 mg/L (Rat) 4 h
n-Hexane 110-54-3	15000 mg/kg (Rat)	3000 mg/kg (Rabbit)	48000 ppm (Rat) 4 h
Cumene 98-82-8	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 20 mg/L (Rat) 6 h
1,2,4 Trimethylbenzene 95-63-6	3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	18,000 mg/m^3 (Rat) 4 h
Ethylbenzene 100-41-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	17.2 mg/L (Rat) 4 h
Benzene 71-43-2	> 2000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 20 mg/l (Rat) 4 h
Cyclohexane 110-82-7	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	13.9 mg/L (Rat) 4 h
Octane 111-65-9	-	-	118 g/m^3 (Rat) 4 h
1,2,3-trimethylbenzene 526-73-8	-	-	-
Naphthalene 91-20-3	490 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 340 mg/m^3 (Rat) 1 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

NAPHTHAS: In a large epidemiological study on over 15,000 employees at several petroleum refineries and amongst residents located near these refineries, no increased risk of kidney cancer was observed in association with gasoline exposures (a similar material). In a similar study, no increased risk of kidney cancer was observed among petroleum refinery workers, but there was a slight trend in the incidence of kidney cancers among service station employees, especially after a 30-year latency period. Altered mental state, drowsiness, peripheral motor neuropathy, irreversible brain damage (so-called Petrol Sniffer's Encephalopathy), delirium, seizures, and sudden death have been reported from repeated overexposure to some hydrocarbon solvents, naphthas, and gasoline.

ISOPARAFFINS: Studies in laboratory animals have shown that long-term exposure to similar materials (isoparaffins) can cause kidney damage and kidney cancer in male laboratory rats. However, in-depth research indicates that these findings are unique to the male rat, and that these effects are not relevant to humans.

C9 AROMATIC HYDROCARBONS: A developmental inhalation study was conducted in laboratory mice. Increased implantation losses, reduced fetal weights, delayed ossification and an increased incidence of cleft palate were observed at the highest exposure level (1,500 ppm). This exposure level was extremely toxic to pregnant female mice (44% mortality). Reduced fetal body weights were also observed at 500 ppm. A multi-generation reproduction inhalation study was conducted in laboratory rats. Reductions in pup weights, pup weight gain, litter size, and pup survival were observed at 1,500 ppm, an exposure level at which significant maternal toxicity was observed. Reduced pup weight gain was also observed at 500 ppm.

PENTANES: Studies of pentane isomers in laboratory animals indicate exposure to extremely high levels (roughly 10 vol.%) may induce cardiac arrhythmias (irregular heartbeats) which may be serious or fatal.

BUTANES: Studies in laboratory animals indicate exposure to extremely high levels of butanes (1-10 or higher vol.% in air) may cause cardiac arrhythmias (irregular heartbeats) which may be serious or fatal.

TOLUENE: Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects. Abuse of toluene at high concentrations (e.g., glue sniffing and solvent abuse) has been associated with adverse effects on the liver, kidney and nervous system, and can cause CNS depression, cardiac arrhythmias, and death. Studies of workers indicate longterm exposure may be related to impaired color vision and hearing. Some studies of workers suggest longterm exposure may be related to neurobehavioral and cognitive changes. Some of these effects have been observed in laboratory animals following repeated exposure to high levels of toluene. Several studies of workers suggest longterm exposure may be related to small increases in spontaneous abortions and changes in some gonadotropic hormones. However, the weight of evidence does not indicate toluene is a reproductive hazard to humans. Studies in laboratory animals indicate some changes in reproductive organs following high levels of exposure, but no significant effects on mating performance or reproduction were observed. Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects. Findings in laboratory animals have been largely negative. Positive findings include small increases in minor skeletal and visceral malformations and developmental delays following very high levels of maternal exposure. Studies of workers indicate long-term exposure may be related to effects on the liver, kidney and blood, but these appear to be limited to changes in serum enzymes and decreased leukocyte counts. Adverse effects on the liver, kidney, thymus and nervous system were observed in animal studies following very high levels of exposure. The relevance of these findings to humans is not clear at this time.

XYLENES, ALL ISOMERS: Overexposure to xylene may cause upper respiratory tract irritation, headache, cyanosis, blood serum changes, nervous system damage and narcosis. Effects may be increased by the use of alcoholic beverages. Evidence of liver and kidney impairment were reported in workers recovering from a gross overexposure. Effects from Prolonged or Repeated Exposure: Impaired neurological function was reported

in workers exposed to solvents including xylene. Studies in laboratory animals have shown evidence of impaired hearing following high levels of exposure. Studies in laboratory animals suggest some changes in reproductive organs following high levels of exposure but no significant effects on reproduction were observed. Studies in laboratory animals indicate skeletal and visceral malformations, developmental delays, and increased fetal resorptions following extremely high levels of maternal exposure with evidence of maternal toxicity. The relevance of these observations to humans is not clear at this time. Adverse effects on the liver, kidney, bone marrow (changes in blood cell parameters) were observed in laboratory animals following high levels of exposure. The relevance of these observations to humans is not clear at this time.

1,2,4-TRIMETHYLBENZENE: The following information pertains to a mixture of C9 aromatic hydrocarbons, over 40% of which was composed of 1,2,4-trimethylbenzene. A developmental inhalation study was conducted in laboratory mice. Increased implantation losses, reduced fetal weights, delayed ossification and an increased incidence of cleft palate were observed at the highest exposure level (1,500 ppm). This exposure level was extremely toxic to pregnant female mice (44% mortality). Reduced fetal body weights were also observed at 500 ppm. A multi-generation reproduction inhalation study was conducted in laboratory rats. Reductions in pup weights, pup weight gain, litter size, and pup survival were observed at 1,500 ppm, an exposure level at which significant maternal toxicity was observed. Reduced pup weight gain was also observed at 500 ppm. Embryotoxicity has been reported in studies of laboratory animals. Adverse effects included increased implantation losses, reduced fetal weights, delayed ossification and an increased incidence of cleft palate.<n><n>

N-HEXANE: Long-term or repeated exposure to n-hexane can cause peripheral nerve damage. Initial symptoms are numbness of the fingers and toes. Also, motor weakness can occur in the digits, but may also involve muscles of the arms, thighs and forearms. The onset of these symptoms may be delayed for several months to a year after the beginning of exposure. Testicular atrophy and partial to full loss of the germ cell line were observed in sub-chronic high-dose inhalation studies of laboratory rodents. These effects appeared irreversible. Rodent reproduction studies have shown evidence of reduced fetal weight but no frank malformations.

CUMENE: Overexposure to cumene may cause upper respiratory tract irritation and CNS depression. Studies in laboratory animals indicate evidence of respiratory tract hyperplasia, and adverse effects on the liver, kidney and adrenal glands following high level exposure. The relevance of these findings to humans is not clear at this time. Findings from lifetime laboratory rodent inhalation studies were as follows: In F344/N rats: an increased incidence of renal carcinomas and adenomas, respiratory epithelial adenomas, and interstitial cell adenomas of the testes. In B6C3F1 mice: an increased incidence of carcinomas and adenomas of the bronchi and lung, liver neoplasms, hemangiosarcomas of the spleen, and adenomas of the thyroid.

ETHYLBENZENE: Findings from a 2-year inhalation study in rodents conducted by NTP were as follows: Effects were observed only at the highest exposure level (750 ppm). At this level the incidence of renal tumors was elevated in male rats (tubular carcinomas) and female rats (tubular adenomas). The incidence of tumors was also elevated in male mice (alveolar and bronchiolar carcinomas) and female mice (hepatocellular carcinomas). IARC has classified ethyl benzene as "possibly carcinogenic to humans" (Group 2B). Studies in laboratory animals indicate some evidence of post-implantation deaths following high levels of maternal exposure. The relevance of these findings to humans is not clear at this time. Studies in laboratory animals indicate limited evidence of renal malformations, resorptions, and developmental delays following high levels of maternal exposure with evidence of maternal toxicity. The relevance of these findings to humans is not clear at this time. Studies in laboratory animals have demonstrated evidence of ototoxicity (hearing loss) following exposure levels as low as 300 ppm for 5 days. Studies in laboratory animals indicate some evidence of adverse effects on the liver, kidney, thyroid, and pituitary gland.

BENZENE: Studies of workers exposed to benzene show clear evidence that overexposure can cause cancer and other diseases of the blood forming organs including Acute

Myelogenous Leukemia (AML), and Aplastic Anemia (AA), an often fatal disease. Some studies suggest overexposure to benzene may also be associated with Myelodysplastic Syndrome (MDS). Findings from a case control study of workers exposed to benzene was reported during the 2009 Benzene Symposium in Munich included an increase in Acute Myeloid Leukemias and Non-Hodgkins Lymphoid Neoplasms (NHLN) of the subtype follicular lymphoma (FL) in some occupational categories. Some studies of workers exposed to benzene have shown an association with increased rates of chromosome aberrations in circulating lymphocytes. One study of women workers exposed to benzene suggested a weak association with irregular menstruation. However, other studies of workers exposed to benzene have not demonstrated clear evidence of an effect on fertility or reproductive outcome in humans. Benzene can cross the placenta and affect the developing fetus. Cases of AA have been reported in the offspring of persons severely overexposed to benzene. Studies in laboratory animals indicate that prolonged, repeated exposure to high levels of benzene vapor can cause bone marrow suppression and cancer in multiple organ systems. Studies in laboratory animals show evidence of adverse effects on male reproductive organs following high levels of exposure but no significant effects on reproduction have been observed. Embryotoxicity has been reported in studies of laboratory animals but effects were limited to reduced fetal weight and minor skeletal variations. Benzene has been classified as a proven human carcinogen by OSHA and a Group 1 (Carcinogenic to Humans) material by IARC. The current proposed IARC classification for benzene is summarized as follows: Sufficient evidence for Acute Myeloid Leukemia; limited evidence for Acute Lymphatic Leukemia, Chronic Lymphatic Leukemia, Non-Hodgkin Lymphoma, and Multiple Myeloma.

NAPHTHALENE: Severe jaundice, neurotoxicity (kernicterus) and fatalities have been reported in young children and infants as a result of hemolytic anemia from overexposure to naphthalene. Persons with glucose 6-phosphate dehydrogenase (G6PD) deficiency are more prone to the hemolytic effects of naphthalene. Adverse effects on the kidney have been reported in persons overexposed to naphthalene but these effects are believed to be a consequence of hemolytic anemia, and not a direct effect. Hemolytic anemia has been observed in laboratory animals exposed to naphthalene. Laboratory rodents exposed to naphthalene vapor for 2 years (lifetime studies) developed non-neoplastic and neoplastic tumors and inflammatory lesions of the nasal and respiratory tract. Cataracts and other adverse effects on the eye have been observed in laboratory animals exposed to high levels of naphthalene. Findings from a large number of bacterial and mammalian cell mutation assays have been negative. A few studies have shown chromosomal effects (elevated levels of Sister Chromatid Exchange or chromosomal aberrations) in vitro. Naphthalene has been classified as Possibly Carcinogenic to Humans (2B) by IARC, based on findings from studies in laboratory animals.

CARBON MONOXIDE: is a chemical asphyxiant with no warning properties (such as odor). At 400-500 ppm for 1 hour headache and dyspnea may occur. If activity is increased, symptoms of overexposure may include nausea, irritability, increased respiration, tinnitus, sweating, chest pain, confusion, impaired judgement, dizziness, weakness, drowsiness, ataxia, irregular heart beat, cyanosis and pallor. Levels in excess of 1000 ppm can result in collapse, loss of conciousness, respiratory failure and death. Extremely high concentrations (12,800 ppm) can cause immediate unconsciousness and death in 1-3 minutes. Repeated anoxia can lead to central nervous system damage and peripheral neuropathy, with loss of sensation in the fingers, amnesia, and mental deterioration and possible congestive heart failure. Damage may also occur to the fetus, lung, liver, kidney, spleen, cardiovascular system and other organs.

WHOLLY-VAPORIZED UNLEADED GASOLINE: Lifetime exposure to wholly vaporized unleaded gasoline produced an increased incidence of liver tumors in female mice exposed to the highest exposure concentration (2056 ppm) and α-2 urinary globulin-mediated kidney tumors in male rats. No exposure-related tumors were observed in male mice or female rats. The male-specific rat kidney tumors are not considered relevant to human health. Mice receiving lifetime repeated skin application of various petroleum naphthas exhibited an irritation-dependent increased incidence of skin tumors. Additional studies suggest that these tumors occur through a mechanism that may not be relevant to human health. Epidemiological data from over 18,000 petroleum marketing and distribution workers

showed no increased risk of leukemia, multiple myeloma, or kidney cancer resulting from gasoline exposure. Unleaded gasoline has been identified as possibly carcinogenic to humans (2B) by the International Agency for Research on Cancer (IARC).

COMBUSTION ENGINE EXHAUST: Chronic inhalation studies of gasoline engine exhaust in mice, rats and hamsters did not produce any carcinogenic effects. Condensates/extracts of gasoline engine exhaust produced an increase in tumors compared to controls when testing by skin painting, subcutaneous injection, intratracheal instillation or implantation into the lungs. Gasoline exhaust has been classified as possibly carcinogenic to humans (2B) by the International Agency for Research on Cancer (IARC).

Adverse effects related to the physical, chemical and toxicological characteristics

Signs and Symptoms Irritating to the skin and mucous membranes. Symptoms may include redness, itching, and inflammation. May cause nausea, vomiting, diarrhea, and signs of nervous system depression: headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue. Aspiration hazard. May cause coughing, chest pains, shortness of breath, pulmonary edema and/or chemical pneumonitis. Repeated or prolonged skin contact may cause drying, reddening, itching and cracking.

Sensitization Not expected to be a skin or respiratory sensitizer.

Mutagenic effects May cause genetic defects.

Carcinogenicity May cause cancer.

Cancer designations are listed in the table below

Name	ACGIH (Class)	IARC (Class)	NTP	OSHA
Gasoline 86290-81-5	Confirmed animal carcinogen (A3)	Possible human carcinogen (2B)	Not Listed	Not Listed
Heptane (mixed isomers) 142-82-5	Not Listed	Not Listed	Not Listed	Not Listed
Pentane (mixed isomers) 78-78-4	Not Listed	Not Listed	Not Listed	Not Listed
Butane (mixed isomers) 106-97-8	Not Listed	Not Listed	Not Listed	Not Listed
Hexane Isomers (other than n-Hexane) 107-83-5	Not Listed	Not Listed	Not Listed	Not Listed
Toluene 108-88-3	Not Classifiable (A4)	Not Classifiable (3)	Not Listed	Not Listed
Xylene (mixed isomers) 1330-20-7	Not classifiable (A4)	Not classifiable (3)	Not Listed	Not Listed
n-Hexane 110-54-3	Not Listed	Not Listed	Not Listed	Not Listed
Cumene 98-82-8	Not listed	Possible human carcinogen (2B)	Reasonably anticipated to be a human carcinogen	Not listed
1,2,4 Trimethylbenzene 95-63-6	Not Listed	Not Listed	Not Listed	Not Listed
Ethylbenzene 100-41-4	Confirmed animal carcinogen (A3)	Possible human carcinogen (2B)	Not Listed	Not Listed
Benzene 71-43-2	Confirmed human carcinogen (A1)	Carcinogenic to humans (1)	Known to be human carcinogen	Known carcinogen
Cyclohexane 110-82-7	Not Listed	Not Listed	Not Listed	Not Listed
Octane 111-65-9	Not Listed	Not Listed	Not Listed	Not Listed
1,2,3-trimethylbenzene 526-73-8	Not Listed	Not Listed	Not Listed	Not Listed
Naphthalene 91-20-3	Confirmed animal carcinogen (A3)	Possible human carcinogen (2B)	Reasonably anticipated to be a human carcinogen	Not Listed

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity (STOT) - single exposure Respiratory system. Central nervous system.

Specific Target Organ Toxicity (STOT) - repeated exposure Not classified.

Aspiration hazard May be fatal if swallowed or vomited and enters airways.

12. ECOLOGICAL INFORMATION

Ecotoxicity This product should be considered toxic to aquatic organisms, with the potential to cause long lasting adverse effects in the aquatic environment.

Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Gasoline 86290-81-5	72-hr EC50 = 56 mg/l Algae	96-hr LC50 = 11 mg/l Rainbow trout (static)	-	48-hr LC50 = 7.6 mg/l Daphnia magna
Heptane (mixed isomers) 142-82-5	-	96-hr LC50 = 375 mg/L Tilapia	-	-
Pentane (mixed isomers) 78-78-4	-	96-hr LC50 = 3.1 mg/L Rainbow trout	-	48-hr EC50 = >1 - <10 mg/L Daphnia magna
Butane (mixed isomers) 106-97-8	-	-	-	-
Hexane Isomers (other than n-Hexane) 107-83-5	-	-	-	-
Toluene 108-88-3	72-hr EC50 = 12.5 mg/l Algae	96-hr LC50 <= 10 mg/l Rainbow trout	-	48-hr EC50 = 5.46-9.83 mg/l Daphnia magna 48-hr EC50 = 11.5 mg/l Daphnia magna (Static)
Xylene (mixed isomers) 1330-20-7	72-hr EC50 = 11 mg/l Algae	96-hr LC50 = 8 mg/l Rainbow trout	-	48-hr LC50 = 3.82 mg/l Daphnia magna
n-Hexane 110-54-3	-	96-hr LC50 = 2.5 mg/l Fathead minnow	-	-
Cumene 98-82-8	72-hr EC50 = 2.6 mg/l Algae	96-hr LC50 = 6.04-6.61 mg/l Fathead minnow (Flow-through) 96-hr LC50 = 2.7 mg/l Rainbow trout (semi-static)	-	48-hr EC50 = 7.9-14.1 mg/l Daphnia magna (static)
1,2,4 Trimethylbenzene 95-63-6	-	96-hr LC50 = 7.19-8.28 mg/l Fathead minnow (flow-through)	-	48-hr EC50 = 6.14 mg/L Daphnia magna
Ethylbenzene 100-41-4	72-hr EC50 = 1.7-7.6 mg/l Algae	96-hr LC50 = 4 mg/L Rainbow trout	-	48-hr EC50 = 1-4 mg/L Daphnia magna
Benzene 71-43-2	72-hr EC50 = 29 mg/l Algae	96-hr LC50 = 5.3 mg/l Rainbow trout (flow-through)	-	48-hr EC50 = 8.76-15.6 mg/l Daphnia magna (Static)
Cyclohexane 110-82-7	72-hr EC50 = 500 mg/l Algae	96-hr LC50 = 3.96-5.18 mg/l Fathead minnow	-	48-hr EC50 = 1.7-3.5 mg/L Bay shrimp
Octane 111-65-9	-	-	-	48-hr LC50 = 0.38 mg/l Daphnia magna
1,2,3-trimethylbenzene 526-73-8	-	96-hr LC50 = 7.72 mg/l Fathead Minnow (flow-through)	-	-
Naphthalene 91-20-3	-	96-hr LC50 = 0.91-2.82 mg/l Rainbow trout (static) 96-hr LC50 = 1.99 mg/l Fathead minnow (static)	-	48-hr LC50 = 1.6 mg/l Daphnia magna

Persistence and degradability Expected to be inherently biodegradable. The presence of ethanol in this product may impede the biodegradation of benzene, toluene, ethylbenzene and xylene in groundwater, resulting in elongated plumes of these constituents.

Bioaccumulation Has the potential to bioaccumulate.

Mobility in soil May partition into air, soil and water.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Description of Waste Residues
This material may be a flammable liquid waste.

Safe Handling of Wastes
Handle in accordance with applicable local, state, and federal regulations. Use personal protection measures as required. Use appropriate grounding and bonding practices. Use only non-sparking tools. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. No smoking.

Disposal of Wastes / Methods of Disposal
The user is responsible for determining if any discarded material is a hazardous waste (40 CFR 262.11). Dispose of in accordance with federal, state and local regulations.

Methods of Contaminated Packaging Disposal
Empty containers should be completely drained and then discarded or recycled, if possible. Do not cut, drill, grind or weld on empty containers since explosive residues may be present. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (49 CFR 172.101):

UN Proper Shipping Name:	Gasoline
UN/Identification No:	UN 1203
Transport Hazard Class(es):	3
Packing Group:	II

TDG (Canada):

UN Proper Shipping Name:	Gasoline
UN/Identification No:	UN 1203
Transport Hazard Class(es):	3
Packing Group:	II

15. REGULATORY INFORMATION

US Federal Regulatory Information:

US TSCA Chemical Inventory Section 8(b): This product and/or its components are listed on the TSCA Chemical Inventory.

EPA Superfund Amendment & Reauthorization Act (SARA):

SARA Section 302: This product does not contain any component(s) included on EPA's Extremely Hazardous Substance (EHS) List.

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Gasoline	NA
Heptane (mixed isomers)	NA
Pentane (mixed isomers)	NA
Butane (mixed isomers)	NA
Hexane Isomers (other than n-Hexane)	NA
Toluene	NA
Xylene (mixed isomers)	NA

n-Hexane	NA
Cumene	NA
1,2,4 Trimethylbenzene	NA
Ethylbenzene	NA
Benzene	NA
Cyclohexane	NA
Octane	NA
1,2,3-trimethylbenzene	NA
Naphthalene	NA

SARA Section 304: This product may contain component(s) identified either as an EHS or a CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requirements:

Name	Hazardous Substances RQs
Gasoline	NA
Heptane (mixed isomers)	NA
Pentane (mixed isomers)	NA
Butane (mixed isomers)	NA
Hexane Isomers (other than n-Hexane)	NA
Toluene	1000 lb final RQ 454 kg final RQ
Xylene (mixed isomers)	100 lb final RQ 45.4 kg final RQ
n-Hexane	5000 lb final RQ 2270 kg final RQ
Cumene	5000 lb final RQ 2270 kg final RQ
1,2,4 Trimethylbenzene	NA
Ethylbenzene	1000 lb final RQ 454 kg final RQ
Benzene	10 lb final RQ 4.54 kg final RQ
Cyclohexane	1000 lb final RQ 454 kg final RQ
Octane	NA
1,2,3-trimethylbenzene	NA
Naphthalene	100 lb final RQ 45.4 kg final RQ

SARA: The following EPA hazard categories apply to this product:

Acute Health Hazard
Chronic Health Hazard
Fire Hazard

SARA Section 313: This product may contain component(s), which if in exceedance of the de minimus threshold, may be subject to the reporting requirements of SARA Title III Section 313 Toxic Release Reporting (Form R).

Name	CERCLA/SARA 313 Emission reporting:
Gasoline	None
Heptane (mixed isomers)	None
Pentane (mixed isomers)	None
Butane (mixed isomers)	None
Hexane Isomers (other than n-Hexane)	None
Toluene	1.0 % de minimis concentration
Xylene (mixed isomers)	1.0 % de minimis concentration
n-Hexane	1.0 % de minimis concentration
Cumene	1.0 % de minimis concentration

1,2,4 Trimethylbenzene	1.0 % de minimis concentration
Ethylbenzene	0.1 % de minimis concentration
Benzene	0.1 % de minimis concentration
Cyclohexane	1.0 % de minimis concentration
Octane	None
1,2,3-trimethylbenzene	None
Naphthalene	0.1 % de minimis concentration

State and Community Right-To-Know Regulations:
The following component(s) of this material are identified on the regulatory lists below:

Gasoline

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 0957
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Not Listed
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Carcinogen; Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	SN 0957 TPQ: 10000 lb (Under N.J.A.C. 7:1G, environmental hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories)
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Heptane (mixed isomers)

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1339
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants:	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Pentane (mixed isomers)

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1064
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Not Listed
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed

California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - fourth degree
New Jersey - Environmental Hazardous Substances List:	SN 1064 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Butane (mixed isomers)

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 0273
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - fourth degree
New Jersey - Environmental Hazardous Substances List:	SN 0273 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Hexane Isomers (other than n-Hexane)

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1285
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Not Listed
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants:	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Toluene

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Developmental toxicity, initial date 1/1/91 Female reproductive toxicity, initial date 8/7/09
New Jersey Right-To-Know:	SN 1866
Pennsylvania Right-To-Know:	Environmental hazard
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic (skin); Flammable (skin)
Michigan Critical Materials Register List:	100 lb Annual usage threshold
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed

New Jersey - Special Hazardous Substances:	Flammable - third degree; Teratogen
New Jersey - Environmental Hazardous Substances List:	SN 1866 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	1000 lb RQ (air); 1 lb RQ (land/water)

Xylene (mixed isomers)

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 2014
Pennsylvania Right-To-Know:	Environmental hazard
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic (skin); Flammable (skin)
Michigan Critical Materials Register List:	100 lb Annual usage threshold all isomers
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	SN 2014 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	1000 lb RQ (air); 1 lb RQ (land/water)

n-Hexane

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1340
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	SN 1340 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	1 lb RQ (air); 1 lb RQ (land/water)

Cumene

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Carcinogen, initial date 4/6/10
New Jersey Right-To-Know:	SN 0542
Pennsylvania Right-To-Know:	Environmental hazard
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic (skin); Flammable (skin)
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	SN 0542 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Present

New York - Reporting of Releases Part 597 - List of Hazardous Substances:	5000 lb RQ (air); 1 lb RQ (land/water)
1,2,4 Trimethylbenzene	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1929
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed
Ethylbenzene	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Carcinogen, initial date 6/11/04
New Jersey Right-To-Know:	SN 0851
Pennsylvania Right-To-Know:	Environmental hazard
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Carcinogen; flammable - Third degree
New Jersey - Environmental Hazardous Substances List:	SN 0851 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	1000 lb RQ (air); 1 lb RQ (land/water)
Benzene	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Carcinogen, initial date 2/27/87 Developmental toxicity, initial date 12/26/97 Male reproductive toxicity, initial date 12/26/97
New Jersey Right-To-Know:	SN 0197
Pennsylvania Right-To-Know:	Environmental hazard; Special hazardous substance
Massachusetts Right-To Know:	Carcinogen; Extraordinarily hazardous
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic (skin); Flammable (skin); Carcinogen (skin)
Michigan Critical Materials Register List:	100 lb Annual usage threshold
Massachusetts Extraordinarily Hazardous Substances:	Carcinogen; Extraordinarily hazardous
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Present
New Jersey - Special Hazardous Substances:	Carcinogen; Flammable - third degree; Mutagen
New Jersey - Environmental Hazardous Substances List:	SN 0197 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	10 lb RQ (air); 1 lb RQ (land/water)

Cyclohexane

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 0565
Pennsylvania Right-To-Know:	Environmental hazard
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	SN 0565 TPQ: 500 lb
Illinois - Toxic Air Contaminants:	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	1000 lb RQ (air); 1 lb RQ (land/water)

Octane

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1434
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Flammable - third degree
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants:	Not Listed
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

1,2,3-trimethylbenzene

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 1929
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous Substances List:	Not Listed
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed

Naphthalene

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Carcinogen, initial date 4/19/02
New Jersey Right-To-Know:	SN 1322 SN 3758

Pennsylvania Right-To-Know:	Environmental hazard Present (particulate)
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	Carcinogen
New Jersey - Environmental Hazardous Substances List:	SN 1322 TPQ: 500 lb (Reportable at the de minimis quantity of >0.1%)
Illinois - Toxic Air Contaminants:	Present
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	100 lb RQ (air); 1 lb RQ (land/water)

Canada DSL/NDSL Inventory: This product and/or its components are listed either on the Domestic Substances List (DSL) or are exempt.

Canadian Regulatory Information: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the (M)SDS contains all the information required by the Controlled Products Regulations.

Name	Canada - WHMIS: Classifications of Substances:	Canada - WHMIS: Ingredient Disclosure:
Gasoline	B2,D2A,D2B	0.1%
Heptane (mixed isomers)	B2,D2B	1%
Pentane (mixed isomers)	B2	1%
Butane (mixed isomers)	A,B1	1%
Hexane Isomers (other than n-Hexane)	B2	1%
Toluene	B2,D2A,D2B	0.1%
Xylene (mixed isomers)	B2,D2A,D2B	m-, o-isomers 1.0%; p-isomer 0.1%
n-Hexane	B2,D2A,D2B	1%
Cumene	B2,D2A	0.1%
1,2,4 Trimethylbenzene	B3,D2B	1%
Ethylbenzene	B2,D2A,D2B	0.1%
Benzene	B2,D2A,D2B	0.1%
Cyclohexane	B2,D2B	1%
Octane	B2,D2B	1%
1,2,3-trimethylbenzene	B3	1%
Naphthalene	B4,D2A	0.1%

Note: Not applicable.

16. OTHER INFORMATION

Prepared By Toxicology and Product Safety

Revision Date: 06/01/2016

Revision Note:

Revised Sections

The following sections (§) have been updated:
1. IDENTIFICATION
2. HAZARD IDENTIFICATION
3. COMPOSITION/INFORMATION ON INGREDIENTS
4. FIRST AID MEASURES
6. ACCIDENTAL RELEASE MEASURES
7. HANDLING AND STORAGE
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
9. PHYSICAL AND CHEMICAL PROPERTIES
11. TOXICOLOGICAL INFORMATION
12. ECOLOGICAL INFORMATION
15. REGULATORY INFORMATION

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is intended as guidance for safe handling, use, processing, storage, transportation, accidental release, clean-up and disposal and is not considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SAFETY DATA SHEET

Helium

Section 1. Identification

GHS product identifier : Helium

Chemical name : Helium

Other means of identification : helium (dot); Helium-4; He; o-Helium; UN 1046

Product use : Synthetic/Analytical chemistry.

Synonym : helium (dot); Helium-4; He; o-Helium; UN 1046

SDS # : 001025

Supplier's details : Airgas USA, LLC and its affiliates
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253

Emergency telephone number (with hours of operation) : 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : GASES UNDER PRESSURE - Compressed gas

GHS label elements

Hazard pictograms :

Signal word : Warning

Hazard statements : Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation.

Precautionary statements

General : Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction.

Prevention : Use and store only outdoors or in a well ventilated place.

Response : Not applicable.

Storage : Protect from sunlight. Protect from sunlight when ambient temperature exceeds 52°C/125°F. Store in a well-ventilated place.

Disposal : Not applicable.

Hazards not otherwise classified : In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.

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Section 3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : Helium

Other means of identification : helium (dot); Helium-4; He; o-Helium; UN 1046

CAS number/other identifiers

CAS number : 7440-59-7

Product code : 001025

Ingredient name	%	CAS number
Helium	100	7440-59-7

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : As this product is a gas, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation : No known significant effects or critical hazards.

Skin contact : Contact with rapidly expanding gas may cause burns or frostbite.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Ingestion : As this product is a gas, refer to the inhalation section.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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Section 4. First aid measures

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

Hazardous thermal decomposition products : No specific data.

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Immediately contact emergency personnel. Stop leak if without risk.

Large spill : Immediately contact emergency personnel. Stop leak if without risk. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Helium	Oxygen Depletion [Asphyxiant]

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

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Section 8. Exposure controls/personal protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Gas. [Compressed gas.]

Color : Colorless.

Molecular weight : 4 g/mole

Molecular formula : He

Boiling/condensation point : -268.9°C (-452°F)

Melting/freezing point : -272.2°C (-458°F)

Critical temperature : -267.9°C (-450.2°F)

Odor : Odorless.

Odor threshold : Not available.

pH : Not available.

Flash point : [Product does not sustain combustion.]

Burning time : Not applicable.

Burning rate : Not applicable.

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : Not available.

Vapor density : 0.14 (Air = 1) Liquid Density@BP: 7.8 lb/ft3 (125 kg/m3)

Specific Volume (ft ^{3}/lb) : 96.1538

Gas Density (lb/ft ^{3}) : 0.0104

Relative density : Not applicable.

Solubility : Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/water : 0.28

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

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Section 9. Physical and chemical properties

SADT : Not available.

Viscosity : Not applicable.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

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Section 11. Toxicological information

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Contact with rapidly expanding gas may cause burns or frostbite.

Inhalation : No known significant effects or critical hazards.

Skin contact : Contact with rapidly expanding gas may cause burns or frostbite.

Ingestion : As this product is a gas, refer to the inhalation section.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

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Section 12. Ecological information

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Helium	0.28	-	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1046	UN1046	UN1046	UN1046	UN1046
UN proper shipping name	HELIUM, COMPRESSED	HELIUM, COMPRESSED	HELIUM, COMPRESSED	HELIUM, COMPRESSED	HELIUM, COMPRESSED
Transport hazard class(es)	2.2	2.2	2.2	2.2	2.2
Packing group	-	-	-	-	-
Environment	No.	No.	No.	No.	No.
Additional information	**Limited quantity** Yes. **Packaging instruction** **Passenger aircraft** Quantity limitation: 75 kg **Cargo aircraft** Quantity limitation: 150 kg	**Explosive Limit and Limited Quantity Index** 0.125 **Passenger Carrying Road or Rail Index** 75	-	-	**Passenger and Cargo Aircraft**Quantity limitation: 75 kg **Cargo Aircraft Only** Quantity limitation: 150 kg

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

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Section 14. Transport information

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

United States inventory (TSCA 8b): This material is listed or exempted.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Sudden release of pressure

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Helium	100	No.	Yes.	No.	No.	No.

State regulations

Massachusetts : This material is listed.

New York : This material is not listed.

New Jersey : This material is listed.

Pennsylvania : This material is listed.

Canada inventory : This material is listed or exempted.

International regulations

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Section 15. Regulatory information

International lists : **Australia inventory (AICS)**: This material is listed or exempted.
China inventory (IECSC): This material is listed or exempted.
Japan inventory: Not determined.
Korea inventory: This material is listed or exempted.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted.
Philippines inventory (PICCS): This material is listed or exempted.
Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : Not listed

Canada

WHMIS (Canada) : Class A: Compressed gas.

CEPA Toxic substances: This material is not listed.
Canadian ARET: This material is not listed.
Canadian NPRI: This material is not listed.
Alberta Designated Substances: This material is not listed.
Ontario Designated Substances: This material is not listed.
Quebec Designated Substances: This material is not listed.

Section 16. Other information

Canada Label requirements : Class A: Compressed gas.

Hazardous Material Information System (U.S.A.)

Health	0
Flammability	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Section 16. Other information

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of printing : 10/15/2014.

Date of issue/Date of revision : 10/15/2014.

Date of previous issue : 10/2/2014.

Version : 0.02

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United NationsACGIH – American Conference of Governmental Industrial Hygienists
AIHA – American Industrial Hygiene Association
CAS – Chemical Abstract Services
CEPA – Canadian Environmental Protection Act
CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act (EPA)
CFR – United States Code of Federal Regulations
CPR – Controlled Products Regulations
DSL – Domestic Substances List
GWP – Global Warming Potential
IARC – International Agency for Research on Cancer
ICAO – International Civil Aviation Organisation
Inh – Inhalation
LC – Lethal concentration
LD – Lethal dosage
NDSL – Non-Domestic Substances List
NIOSH – National Institute for Occupational Safety and Health
TDG – Canadian Transportation of Dangerous Goods Act and Regulations
TLV – Threshold Limit Value
TSCA – Toxic Substances Control Act
WEEL – Workplace Environmental Exposure Level
WHMIS – Canadian Workplace Hazardous Material Information System

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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Safety data for indeno[1,2,3-cd]pyrene

Glossary of terms on this data sheet.

The information on this web page is provided to help you to work safely, but it is intended to be an overview of hazards, not a replacement for a full Material Safety Data Sheet (MSDS). MSDS forms can be downloaded from the web sites of many chemical suppliers.

General

Synonyms: 1,10-(1,2-phenylene)pyrene, 1,10-(o-phenylene)pyrene, o-phenylenepyrene, 2,3-phenylenepyrene, 2,3,o-phenylenepyrene, IP
Use:
Molecular formula: $C_{22}H_{12}$
CAS No: 193-39-5
EINECS No: 205-893-2

Physical data

Appearance: solid
Melting point: 161 - 163 C
Boiling point: 536 C
Vapour density:
Vapour pressure:
Density (g cm^{-3}):
Flash point:
Explosion limits:
Autoignition temperature:
Water solubility:

Stability

Stable. Incompatible with strong oxidizing agents.

Toxicology

Limited evidence that this material may be carcinogenic.

Toxicity data

(The meaning of any toxicological abbreviations which appear in this section is given here.)

Risk phrases

(The meaning of any risk phrases which appear in this section is given here.)
R40.

Transport information

(The meaning of any UN hazard codes which appear in this section is given here.)
Non-hazardous for air, sea and road freight.

Personal protection

Treat as potentially hazardous - many multi-ring aromatic compounds are suspected carcinogens.

Safety phrases

(The meaning of any safety phrases which appear in this section is given here.)
S36 S37 S45.

[Return to Physical & Theoretical Chemistry Lab. Safety home page.]

This information was last updated on May 10, 2005. We have tried to make it as accurate and useful as possible, but can take no responsibility for its use, misuse, or accuracy. We have not verified this information, and cannot guarantee that it is up-to-date.

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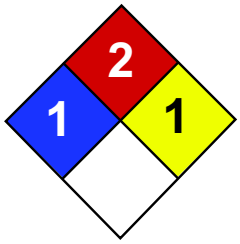

Health	1
Fire	2
Reactivity	1
Personal Protection	E

Material Safety Data Sheet
Iron Metal MSDS

Section 1: Chemical Product and Company Identification

Product Name: Iron Metal

Catalog Codes: SLI2047, SLI1996

CAS#: 7439-89-6

RTECS: NO4565500

TSCA: TSCA 8(b) inventory: Iron Metal

CI#: Not applicable.

Synonym:

Chemical Name: Iron

Chemical Formula: Fe

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Iron Metal, powder	7439-89-6	100

Toxicological Data on Ingredients: Not applicable.

Section 3: Hazards Identification

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to liver, cardiovascular system, upper respiratory tract, pancreas. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: Some metallic oxides.

Fire Hazards in Presence of Various Substances: Flammable in presence of heat.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Explosive in presence of open flames and sparks, of heat.

Fire Fighting Media and Instructions:
SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards:
Chlorine Trifluoride reacts with iron with incandescence. Powdered iron reacts with fluorine below redness with incandescence. Reduced iron decomposes with nitrogen dioxide @ ordinary temperature with incandescence. Reacting mass formed by mixture of phosphorus and iron can become incandescent when heated. This material is flammable in powder form only.

Special Remarks on Explosion Hazards: Material in powdered form can explode when exposed to heat or flame

Section 6: Accidental Release Measures

Small Spill:
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:
Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Moisture sensitive.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Solid metallic powder.)

Odor: Odorless.

Taste: Tasteless.

Molecular Weight: 55.85 g/mole

Color: Black to Grey.

pH (1% soln/water): Not applicable.

Boiling Point: 3000°C (5432°F)

Melting Point: 1535°C (2795°F)

Critical Temperature: Not available.

Specific Gravity: Density: 7.86 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Insoluble in cold water, hot water, diethyl ether.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, ignition sources, incompatible materials, water/moisture, air, dust generation.

Incompatibility with various substances:
Reactive with oxidizing agents, acids. Slightly reactive to reactive with moisture.

Corrosivity: Not considered to be corrosive for metals and glass.

Special Remarks on Reactivity:
Hot iron(wire) burns in Chlorine gas. Violent decompositon of hydrogen peroxide (53% by weight or greater) may be caused by contact with iron. Readily oxidizes in moist air forming rust. Reactive with halogens. Incompatible with acetaldehyde, ammonium peroxodisulfate, chloroformamidinum, chloric acid, ammonium nitrate, dinitorgen tetroxide, nitryl fluoride, polystyrene, sodium acetylide, potassium dichromate, peroxyformic acid, sulfuric acid, sodium carbide. Readily attacked by dilute mineral acids and or attacked or dissolved by organic acids. Not appreciably attacked by cold sulfuric acid, or nitric acid, but is attacked by hot acids.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 30000 mg/kg [Rat].

Chronic Effects on Humans: May cause damage to the following organs: liver, cardiovascular system, upper respiratory tract, pancreas.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects: Skin: Iron metal filings or dust: May cause skin irritation by mechanical action. Iron metal wire: Not likely to cause skin irritation Eyes: Iron metal filings or dust: Can irritate eyes by mechanical action. Iron metal wire: No hazard. Will not cause eye irritation. Inhalation: Iron dust: Can irritate the respiratory tract by mechanical action. Iron metal wire or filings: Not an inhalation hazard unless metal is heated. If metal is heated, fumes will be released. Inhalation of these fumes may cause "fume metal fever", which is characterized by flu-like symptoms. Symptoms may include metallic taste, fever, nausea, vomiting, chills, cough, weakness, chest pain, generalized muscle pain/aches, and increased white blood cell count. Ingestion: Iron metal wire: Not an ingestion hazard: Iron metal filings or dust: The amount of ingested iron which constitutes a toxic dose is not well defined. Proposed toxic doses of elemental iron are 20 mg/kg for gastrointestinal irritation to greater than 60 mg/kg for systemic toxicity. Gastrointestinal effects are the first signs to appear, with hemorrhagic vomiting and diarrhea, hematochezia, abdominal pain, lethargy, metabolic acidosis, coagulaopathy, shock, coma and convulsions developing from 0 to 6 hours after ingestion. Leukocytosis may also occur. An asymptomatic phase may ensue at 6 to 12 hours postingestion, followed by hypoglycemia or hyperglycemia, hepatic and renal failure, severe acidosis, cyanosis, fever, CNS depression (lethargy, restlessness and/or confusion seizures), hypotension, and cardiovascular collapse/cardiac failure in 12 to 48 hours. Hepatic cirrhosis, gastrointestinal scarring and/or strictures may arise in 2 to 6 weeks. It may also cause an anaphylactoid reaction. Non-cardiogenic pulmonary edema also develop in severe cases of iron intoxication. Chronic Potential Health Effects: Inhalation: Chronic inhalation of iron dust can lead to accumulation in the lungs and a characteristic stippled appearance on X-rays. This condition, called SIDEROSIS, is considered benign in that it does not interfere with lung function and does not predispose to other disease. Chronic inhalation of iron dust may also cause fibrosis in the lungs. Ingestion: Clinical signs of iron overload appear when the total body iron is 5 to 10 times higher than normal. Neurobehavioral defects including depression, decreased activity, habituation, reflex startle, and conditioned avoidance response performance may occur. However, similiar effects were also seen in iron defficiency. It is therefore likely that these behavioral effects are secondary to general toxicity. High serum iron levels may be associated with an increased risk of fatal acute myocardial infarction (MI). Skin: Prolonged or repeated contact may cause hypersensivity.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: CLASS 4.1: Flammable solid.

Identification: : Metal powder, flammable, n.o.s. (Iron metal powder) UNNA: 3089 PG: III

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
California Director's List of Hazardous Substances: Iron Metal TSCA 8(b) inventory: Iron Metal

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): CLASS B-4: Flammable solid.

DSCL (EEC):
R11- Highly flammable. S16- Keep away from sources of ignition - No smoking. S22- Do not breathe dust.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 2

Reactivity: 1

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 2

Reactivity: 1

Specific hazard:

Protective Equipment:
Gloves Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/09/2005 05:52 PM

Last Updated: 11/06/2008 12:00 PM

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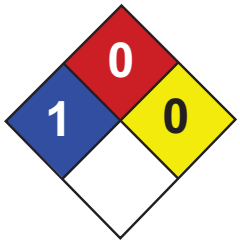

Health	1
Fire	0
Reactivity	0
Personal Protection	E

Material Safety Data Sheet
Lead MSDS

Section 1: Chemical Product and Company Identification

Product Name: Lead

Catalog Codes: SLL1291, SLL1669, SLL1081, SLL1459, SLL1834

CAS#: 7439-92-1

RTECS: OF7525000

TSCA: TSCA 8(b) inventory: Lead

CI#: Not available.

Synonym: Lead Metal, granular; Lead Metal, foil; Lead Metal, sheet; Lead Metal, shot

Chemical Name: Lead

Chemical Formula: Pb

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Lead	7439-92-1	100

Toxicological Data on Ingredients: Lead LD50: Not available. LC50: Not available.

Section 3: Hazards Identification

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:
Slightly hazardous in case of skin contact (permeator). CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH, 2B (Possible for human.) by IARC. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to blood, kidneys, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: Some metallic oxides.

Fire Hazards in Presence of Various Substances: Non-flammable in presence of open flames and sparks, of shocks, of heat.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: When heated to decomposition it emits highly toxic fumes of lead.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep locked up.. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable

protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 0.05 (mg/m3) from ACGIH (TLV) [United States] TWA: 0.05 (mg/m3) from OSHA (PEL) [United States] TWA: 0.03 (mg/m3) from NIOSH [United States] TWA: 0.05 (mg/m3) [Canada]Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Metal solid.)

Odor: Not available.

Taste: Not available.

Molecular Weight: 207.21 g/mole

Color: Bluish-white. Silvery. Gray

pH (1% soln/water): Not applicable.

Boiling Point: 1740°C (3164°F)

Melting Point: 327.43°C (621.4°F)

Critical Temperature: Not available.

Specific Gravity: 11.3 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Insoluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials, excess heat

Incompatibility with various substances: Reactive with oxidizing agents.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:
Can react vigorously with oxidizing materials. Incompatible with sodium carbide, chlorine trifluoride, trioxane + hydrogen peroxide, ammonium nitrate, sodium azide, disodium acetylide, sodium acetylide, hot concentrated nitric acid, hot concentrated hydrochloric acid, hot concentrated sulfuric acid, zirconium.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Inhalation. Ingestion.

Toxicity to Animals:
LD50: Not available. LC50: Not available.

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH, 2B (Possible for human.) by IARC. May cause damage to the following organs: blood, kidneys, central nervous system (CNS).

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans:
Acute Potential: Skin: Lead metal granules or dust: May cause skin irritation by mechanical action. Lead metal foil, shot or sheets: Not likely to cause skin irritation Eyes: Lead metal granules or dust: Can irritate eyes by mechanical action. Lead metal foil, shot or sheets: No hazard. Will not cause eye irritation. Inhalation: In an industrial setting, exposure to lead mainly occurs from inhalation of dust or fumes. Lead dust or fumes: Can irritate the upper respiratory tract (nose, throat) as well as the bronchi and lungsby mechanical action. Lead dust can be absorbed through the respiratory system. However, inhaled lead does not accumulate in the lungs. All of an inhaled dose is eventually abssorbed or transferred to the gastrointestinal tract. Inhalation effects of exposure to fumes or dust of inorganic lead may not develop quickly. Symptoms may include metallic taste, chest pain, decreased physical fitness, fatigue, sleep disturbance, headache, irritability, reduces memory, mood and personality changes, aching bones and muscles, constipation, abdominal pains, decreasing appetite. Inhalation of large amounts may lead to ataxia, deliriuim, convulsions/seizures, coma, and death. Lead metal foil, shot, or sheets: Not an inhalation hazard unless metal is heated. If metal is heated, fumes will be released. Inhalation of these fumes may cause "fume metal fever", which is characterized by flu-like symptoms. Symptoms may include metallic taste, fever, nausea, vomiting, chills, cough, weakness, chest pain, generalized muscle pain/aches, and increased white blood cell count. Ingestion: Lead metal granules or dust: The symptoms of lead poisoning include abdominal pain or cramps (lead cholic), spasms, nausea, vomiting, headache, muscle weakness, hallucinations, distorted perceptions, "lead line" on the gums, metallic taste, loss of appetite, insomnia, dizziness and other symptoms similar to that of inhalation. Acute poisoning may result in high lead levels in the blood and urine, shock, coma and death in extreme cases. Lead metal foil, shot or sheets: Not an ingestion hazard for usual industrial handling.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations:
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Lead California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Lead California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (male) which would require a warning under the statute: Lead California prop. 65 (no significant risk level): Lead: 0.0005 mg/day (value) California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Lead California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Lead Connecticut hazardous material survey.: Lead Illinois toxic substances disclosure to employee act: Lead Illinois chemical safety act: Lead New York release reporting list: Lead Rhode Island RTK hazardous substances: Lead Pennsylvania RTK: Lead

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC):
R20/22- Harmful by inhalation and if swallowed. R33- Danger of cumulative effects. R61- May cause harm to the unborn child. R62- Possible risk of impaired fertility. S36/37- Wear suitable protective clothing and gloves. S44- If you feel unwell, seek medical advice (show the label when possible). S53- Avoid exposure - obtain special instructions before use.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/10/2005 08:21 PM

Last Updated: 11/06/2008 12:00 PM

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SAFETY DATA SHEET

Version 4.6
Revision Date 03/02/2015
Print Date 02/07/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Manganese
Product Number	:	463728
Brand	:	Aldrich
CAS-No.	:	7439-96-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Substances and mixtures, which in contact with water, emit flammable gases (Category 1), H260
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word	Danger
Hazard statement(s)	
H260	In contact with water releases flammable gases which may ignite spontaneously.
H412	Harmful to aquatic life with long lasting effects.
Precautionary statement(s)	
P223	Keep away from any possible contact with water, because of violent reaction and possible flash fire.
P231 + P232	Handle under inert gas. Protect from moisture.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.

P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P402 + P404	Store in a dry place. Store in a closed container.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Mn
Molecular weight	:	54.94 g/mol
CAS-No.	:	7439-96-5
EC-No.	:	231-105-1

Hazardous components

Component	Classification	Concentration
Manganese		
	Water-react. 1; Aquatic Acute 3; Aquatic Chronic 3; H260, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Dry powder Carbon dioxide (CO2)

Unsuitable extinguishing media
Water

5.2 Special hazards arising from the substance or mixture
Manganese/manganese oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.
Never allow product to get in contact with water during storage.

Moisture sensitive. Keep in a dry place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Manganese	7439-96-5	TWA	0.200000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC)		
		C	5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		
		C	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		

		TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		C	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		
		TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.200000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) varies		
		TWA	0.100000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment 2014 Adoption varies		
		TWA	0.020000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment 2014 Adoption varies		
		TWA	0.1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment varies		
		TWA	0.02 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment varies		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
impervious clothing, Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: grey
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 1,244 °C (2,271 °F) - lit.
f)	Initial boiling point and boiling range	1,962 °C (3,564 °F) - lit.
g)	Flash point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	7.3 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts violently with water.

10.4 Conditions to avoid
Exposure to moisture

10.5 Incompatible materials
acids, Halogens, Bases, Phosphorus, Sulphur oxides, Peroxides

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 9,000 mg/kg

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Mild eye irritation - 24 h

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

Carcinogenicity - Rat - Intramuscular
Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Tumorigenic:Tumors at site or application.

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

May cause reproductive disorders.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: OO9275000

Men exposed to manganese dusts showed a decrease in fertility. Chronic manganese poisoning primarily involves the central nervous system. Early symptoms include languor, sleepiness and weakness in the legs. A stolid mask-like appearance of the face, emotional disturbances such as uncontrollable laughter and a spastic gait with tendency to fall in walking are findings in more advanced cases. High incidence of pneumonia has been found in workers exposed to the dust or fume of some manganese compounds.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 40 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3208 Class: 4.3 Packing group: I
Proper shipping name: Metallic substance, water-reactive, n.o.s. (Manganese)

Poison Inhalation Hazard: No

IMDG
UN number: 3208 Class: 4.3 Packing group: I EMS-No: F-G, S-N
Proper shipping name: METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S. (Manganese)

IATA
UN number: 3208 Class: 4.3 Packing group: I
Proper shipping name: Metallic substance, water-reactive, n.o.s. (Manganese)
IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

SARA 311/312 Hazards
Reactivity Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H260	In contact with water releases flammable gases which may ignite spontaneously.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	2

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	2
Special hazard.I:	W

Further information
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Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.6 Revision Date: 03/02/2015 Print Date: 02/07/2016

SAFETY DATA SHEET

Version 4.6
Revision Date 03/02/2015
Print Date 02/07/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Manganese
Product Number	:	463728
Brand	:	Aldrich
CAS-No.	:	7439-96-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Substances and mixtures, which in contact with water, emit flammable gases (Category 1), H260
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word	Danger
Hazard statement(s)	
H260	In contact with water releases flammable gases which may ignite spontaneously.
H412	Harmful to aquatic life with long lasting effects.
Precautionary statement(s)	
P223	Keep away from any possible contact with water, because of violent reaction and possible flash fire.
P231 + P232	Handle under inert gas. Protect from moisture.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.

P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P402 + P404	Store in a dry place. Store in a closed container.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Mn
Molecular weight	:	54.94 g/mol
CAS-No.	:	7439-96-5
EC-No.	:	231-105-1

Hazardous components

Component	Classification	Concentration
Manganese		
	Water-react. 1; Aquatic Acute 3; Aquatic Chronic 3; H260, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Dry powder Carbon dioxide (CO2)

Unsuitable extinguishing media
Water

5.2 Special hazards arising from the substance or mixture
Manganese/manganese oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.
Never allow product to get in contact with water during storage.

Moisture sensitive. Keep in a dry place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Manganese	7439-96-5	TWA	0.200000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC)		
		C	5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		
		C	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		

		TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		C	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		
		TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.200000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) varies		
		TWA	0.100000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment 2014 Adoption varies		
		TWA	0.020000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment 2014 Adoption varies		
		TWA	0.1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment varies		
		TWA	0.02 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment varies		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
impervious clothing, Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: grey
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 1,244 °C (2,271 °F) - lit.
f)	Initial boiling point and boiling range	1,962 °C (3,564 °F) - lit.
g)	Flash point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	7.3 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts violently with water.

10.4 Conditions to avoid
Exposure to moisture

10.5 Incompatible materials
acids, Halogens, Bases, Phosphorus, Sulphur oxides, Peroxides

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 9,000 mg/kg

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Mild eye irritation - 24 h

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

Carcinogenicity - Rat - Intramuscular
Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Tumorigenic:Tumors at site or application.

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

May cause reproductive disorders.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: OO9275000

Men exposed to manganese dusts showed a decrease in fertility. Chronic manganese poisoning primarily involves the central nervous system. Early symptoms include languor, sleepiness and weakness in the legs. A stolid mask-like appearance of the face, emotional disturbances such as uncontrollable laughter and a spastic gait with tendency to fall in walking are findings in more advanced cases. High incidence of pneumonia has been found in workers exposed to the dust or fume of some manganese compounds.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 40 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3208 Class: 4.3 Packing group: I
Proper shipping name: Metallic substance, water-reactive, n.o.s. (Manganese)

Poison Inhalation Hazard: No

IMDG
UN number: 3208 Class: 4.3 Packing group: I EMS-No: F-G, S-N
Proper shipping name: METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S. (Manganese)

IATA
UN number: 3208 Class: 4.3 Packing group: I
Proper shipping name: Metallic substance, water-reactive, n.o.s. (Manganese)
IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

SARA 311/312 Hazards
Reactivity Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H260	In contact with water releases flammable gases which may ignite spontaneously.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	2

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	2
Special hazard.I:	W

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.6 Revision Date: 03/02/2015 Print Date: 02/07/2016

SAFETY DATA SHEET

Version 6.5
Revision Date 02/07/2023
Print Date 02/07/2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Mercury

Product Number : 215457
Brand : SIGALD
Index-No. : 080-001-00-0
CAS-No. : 7439-97-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Scientific research and development, Reagent for analysis

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Inhalation (Category 2), H330
Reproductive toxicity (Category 1B), H360
Specific target organ toxicity - repeated exposure (Category 1), H372
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word Danger

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Hazard statement(s)

H330	Fatal if inhaled.
H360	May damage fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula	:	Hg
Molecular weight	:	200.59 g/mol
CAS-No.	:	7439-97-6
EC-No.	:	231-106-7
Index-No.	:	080-001-00-0

Component	Classification	Concentration
mercury		
	Acute Tox. 2; Repr. 1B; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H330, H360, H372, H400, H410 M-Factor - Aquatic Acute: 1 - Aquatic Chronic: 100	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture
Mercury/mercury oxides.
Not combustible.
Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information
Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. In some instances, a mercury spill kit may be used. Please consult with your site EHS representative to determine the most appropriate clean up method.Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Hygiene measures
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Store under inert gas.

Storage class
Storage class (TRGS 510): 6.1B: Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

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Component	CAS-No.	Value	Control parameters	Basis
mercury	7439-97-6	C	0.1 mg/m3	USA. NIOSH Recommended Exposure Limits
	Remarks	Potential for dermal absorption		
		CEIL	1.0mg/10m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		TWA	0.05 mg/m3	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
		Skin notation		
		TWA	0.025 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Kidney damage Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen Danger of cutaneous absorption		
		TWA	0.05 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		

8.2 Exposure controls

Appropriate engineering controls
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

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Body Protection
protective clothing

Respiratory protection
required when vapours/aerosols are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Color: silver, white
b)	Odor	odorless
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -38.87 °C (-37.97 °F) - lit.
f)	Initial boiling point and boiling range	356.6 °C 673.9 °F - lit.
g)	Flash point	()Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	The product is not flammable.
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	< 0.01 hPa at 20 °C (68 °F) 1 hPa at 126 °C(259 °F)
l)	Vapor density	6.93 - (Air = 1.0)
m)	Density	13.55 g/cm3 at 25 °C (77 °F)
	Relative density	No data available
n)	Water solubility	0.00006 g/l at 25 °C (77 °F)
o)	Partition coefficient: n-octanol/water	Not applicable for inorganic substances
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available

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s) Explosive properties No data available

t) Oxidizing properties none

9.2 Other safety information

Relative vapor density	6.93 - (Air = 1.0)

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions
Risk of explosion with:
Acetylene
Alkali metals
Aluminum
Amines
Ammonia
chlorine dioxide
Potassium
sodium
oxalic acid
perchlorates
Risk of ignition or formation of inflammable gases or vapours with:
Chlorine
silanes
Oxygen
Generates dangerous gases or fumes in contact with:
Nitric acid
Exothermic reaction with:
Bromine
Metals
acetylidene
Oxygen

10.4 Conditions to avoid
no information available

10.5 Incompatible materials
Aluminum, Lead, Copper, silver, Zinc, zinc alloys, Tin

10.6 Hazardous decomposition products
In the event of fire: see section 5

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Oral: No data available
LC50 Inhalation - Rat - male - 2 h - < 27 mg/m3 - vapor

Dermal: No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
Presumed human reproductive toxicant

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

11.2 Additional Information

RTECS: OV4550000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

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SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	mortality LC50 - Cyprinus carpio (Carp) - 0.160 mg/l - 96 h
Toxicity to fish(Chronic toxicity)	Remarks: No data available (mercury)

12.2 Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Bioaccumulation	Carassius auratus (goldfish) - 1,789 d - 0.25 µg/l(mercury) Bioconcentration factor (BCF): 155,986

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

DOT (US)

UN number: 2809 Class: 8 (6.1) Packing group: III
Proper shipping name: Mercury
Reportable Quantity (RQ): 1 lbs
Reportable Quantity (RQ): 1 lbs
Poison Inhalation Hazard: No

IMDG

UN number: 2809 Class: 8 (6.1) Packing group: III EMS-No: F-A, S-B
Proper shipping name: MERCURY
Marine pollutant : yes

IATA

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

UN number: 2809 Class: 8 (6.1) Packing group: III
Proper shipping name: Mercury

SECTION 15: Regulatory information

SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
mercury	7439-97-6	2015-11-23

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Reportable Quantity : D009 lbs

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
mercury	7439-97-6	2015-11-23

California Prop. 65 Components

	CAS-No.	Revision Date
, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.mercury	7439-97-6	2013-12-20

SECTION 16: Other information

Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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operates as MilliporeSigma in the US and Canada

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operates as MilliporeSigma in the US and Canada

SAFETY DATA SHEET

Version 3.8
Revision Date 05/27/2016
Print Date 11/13/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Methane
Product Number	:	295477
Brand	:	Aldrich
Index-No.	:	601-001-00-4
CAS-No.	:	74-82-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	+1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable gases (Category 1), H220
Gases under pressure (Compressed gas), H280
Simple Asphyxiant,

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word	Danger
Hazard statement(s)	
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation.
Precautionary statement(s)	
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381	Eliminate all ignition sources if safe to do so.
P410 + P403	Protect from sunlight. Store in a well-ventilated place.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	CH_4
Molecular weight	:	16.04 g/mol
CAS-No.	:	74-82-8
EC-No.	:	200-812-7
Index-No.	:	601-001-00-4

Hazardous components

Component	Classification	Concentration
Methane		
	Flam. Gas 1; Press. Gas Compr. Gas; SA ; H220, H280,	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Clean up promptly by sweeping or vacuum.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Contents under pressure.
Storage class (TRGS 510): Gases

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Methane	74-82-8	TWA	1,000.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Cardiac sensitization		
		See Appendix F: Minimal Oxygen Content Asphyxia 2015 Adoption		
		TWA	0.100000 mg/m3	USA. NIOSH Recommended Exposure Limits
		'Ca' in the presence of formaldehyde, acetaldehyde, or malonaldehyde. See Appendices A & C (Aldehydes).		
		TWA	0.100000 mg/m3	USA. NIOSH Recommended Exposure Limits
		'Ca' in the presence of formaldehyde, acetaldehyde, or malonaldehyde. See Appendices A & C (Aldehydes).		
		See Appendix F: Minimal Oxygen Content Asphyxia		
		TWA	0.1 mg/m3	USA. NIOSH Recommended Exposure Limits
		'Ca' in the presence of formaldehyde, acetaldehyde, or malonaldehyde. See Appendices A & C (Aldehydes).		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 60 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: gaseous Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -183 °C (-297 °F) - lit.
f)	Initial boiling point and boiling range	-161 °C (-258 °F) - lit.
g)	Flash point	-188 °C (-306 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower	Upper explosion limit: 15 %(V)

	flammability or explosive limits	Lower explosion limit: 5 %(V)
k)	Vapour pressure	No data available
l)	Vapour density	0.55 - (Air = 1.0)
m)	Relative density	0.716 g/cm3 at 25 °C (77 °F)
n)	Water solubility	3.5 g/l at 17 °C (63 °F)
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

Relative vapour density 0.55 - (Air = 1.0)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: PA1490000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1971 Class: 2.1

Proper shipping name: Methane, compressed
Reportable Quantity (RQ):

Poison Inhalation Hazard: No

IMDG
UN number: 1971 Class: 2.1 EMS-No: F-D, S-U
Proper shipping name: METHANE, COMPRESSED

IATA
UN number: 1971 Class: 2.1
Proper shipping name: Methane, compressed
IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Methane	74-82-8	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Methane	74-82-8	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Methane	74-82-8	1993-04-24

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

	May displace oxygen and cause rapid suffocation.
Flam. Gas	Flammable gases
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
Press. Gas	Gases under pressure
SA	Simple Asphyxiant

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	
Flammability:	4
Physical Hazard	3

NFPA Rating

Health hazard:	0
Fire Hazard:	4
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 3.8 Revision Date: 05/27/2016 Print Date: 11/13/2016

Fisher Scientific

Part of Thermo Fisher Scientific

SAFETY DATA SHEET

Creation Date 27-Jan-2010 **Revision Date** 02-Oct-2015 **Revision Number** 2

1. Identification

Product Name **Methylene chloride**

Cat No. : **D37-1; D37-4; D37-20; D37-200; D37-200LC; D37-500; D37FB-19; D37FB-50; D37FB-115; D37FB-200; D37POP-19; D37POPB-50; D37POPB-200; D37RB-19; D37RB-50; D37RB-115; D37RB-200; D37RS-19; D37RS-28; D37RS-50; D37RS-115; D37RS-200; D37SK-4; D37SK-4LC; D37SS-28; D37SS-50; D37SS-115; D37SS-200; D37SS-1350**

Synonyms Dichloromethane; DCM

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Emergency Telephone Number
CHEMTREC®, Inside the USA: 800-424-9300
CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Carcinogenicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Central nervous system (CNS), Respiratory system.	
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Liver, Kidney, Blood.	

Label Elements

Signal Word
Danger

Hazard Statements
Causes skin irritation
Causes serious eye irritation

May cause respiratory irritation
May cause drowsiness or dizziness
May cause cancer
May cause damage to organs through prolonged or repeated exposure

Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Wear eye/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Response
IF exposed or concerned: Get medical attention/advice
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)

WARNING! This product contains a chemical known in the State of California to cause cancer, birth defects or other reproductive harm.

3. Composition / information on ingredients

Component	CAS-No	Weight %
Methylene chloride	75-09-2	>99.5
Methyl alcohol	67-56-1	0 - 0.4
Cyclohexene	110-83-8	0 - 0.01
2-Methyl-2-butene	513-35-9	0 - 0.01

4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms/effects Breathing difficulties. . Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature 556 °C / 1032.8 °F
Explosion Limits
Upper 23 vol %
Lower 13 vol %
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO_2) Hydrogen chloride gas Phosgene
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

6. Accidental release measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak.

Environmental Precautions Should not be released into the environment. See Section 12 for additional ecological information.

Methods for Containment and Clean Up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Use only under a chemical fume hood.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methylene chloride	TWA: 50 ppm	(Vacated) TWA: 500 ppm (Vacated) STEL: 2000 ppm (Vacated) Ceiling: 1000 ppm TWA: 25 ppm STEL: 125 ppm	IDLH: 2300 ppm
Methyl alcohol	TWA: 200 ppm STEL: 250 ppm Skin	(Vacated) TWA: 200 ppm (Vacated) TWA: 260 mg/m^3 (Vacated) STEL: 250 ppm (Vacated) STEL: 325 mg/m^3 Skin TWA: 200 ppm TWA: 260 mg/m^3	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m^3 STEL: 250 ppm STEL: 325 mg/m^3
Cyclohexene	TWA: 300 ppm	(Vacated) TWA: 300 ppm (Vacated) TWA: 1015 mg/m^3 TWA: 300 ppm TWA: 1015 mg/m^3	IDLH: 2000 ppm TWA: 300 ppm TWA: 1015 mg/m^3

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Methylene chloride	TWA: 50 ppm TWA: 174 mg/m^3	TWA: 100 ppm TWA: 330 mg/m^3 STEL: 500 ppm STEL: 1740 mg/m^3	TWA: 50 ppm
Methyl alcohol	TWA: 200 ppm TWA: 262 mg/m^3 STEL: 250 ppm STEL: 328 mg/m^3 Skin	TWA: 200 ppm TWA: 260 mg/m^3 STEL: 250 ppm STEL: 310 mg/m^3	TWA: 200 ppm STEL: 250 ppm Skin
Cyclohexene	TWA: 300 ppm TWA: 1010 mg/m^3	TWA: 300 ppm TWA: 1015 mg/m^3	TWA: 300 ppm

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	sweet
Odor Threshold	No information available
pH	Not applicable
Melting Point/Range	-97 °C / -142.6 °F
Boiling Point/Range	39 °C / 102.2 °F
Flash Point	No information available

Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	23 vol %
Lower	13 vol %
Vapor Pressure	20 mmHg @ 3502°C
Vapor Density	2.93 (Air = 1.0)
Specific Gravity	1.33
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	556 °C / 1032.8 °F
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C H2 Cl2
Molecular Weight	84.93

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat.

Incompatible Materials Strong oxidizing agents, Strong acids, Amines

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2), Hydrogen chloride gas, Phosgene

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methylene chloride	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	53 mg/L (Rat) 6 h 76000 mg/m³ (Rat) 4 h
Methyl alcohol	LD50 = 6200 mg/kg (Rat)	LD50 = 15800 mg/kg (Rabbit)	64000 ppm (Rat) 4 h 83.2 mg/L (Rat) 4 h
Cyclohexene	LD50 = 2400 µL/kg (Rat)	>200 mg/kg (Rat)	>21.6 mg/L/4h (rat)
2-Methyl-2-butene	700-2600 mg/kg (Rat)	>2000 mg/kg (Rat)	LC50 > 61000 ppm (Rat) 4 h

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes and skin

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Methylene chloride	75-09-2	Group 2A	Reasonably Anticipated	A3	X	A3
Methyl alcohol	67-56-1	Not listed	Not listed	Not listed	Not listed	Not listed

Cyclohexene	110-83-8	Not listed	Not listed	Not listed	Not listed	Not listed
2-Methyl-2-butene	513-35-9	Not listed	Not listed	Not listed	Not listed	Not listed

IARC: (International Agency for Research on Cancer)

IARC: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

NTP: (National Toxicity Program)
Known - Known Carcinogen
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen
ACGIH: (American Conference of Governmental Industrial Hygienists)

Mexico - Occupational Exposure Limits - Carcinogens

Mexico - Occupational Exposure Limits - Carcinogens
A1 - Confirmed Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Confirmed Animal Carcinogen
A4 - Not Classifiable as a Human Carcinogen
A5 - Not Suspected as a Human Carcinogen

Mutagenic Effects Mutagenic effects have occured in microorganisms.

Reproductive Effects Experiments have shown reproductive toxicity effects on laboratory animals.

Developmental Effects Developmental effects have occurred in experimental animals.

Teratogenicity No information available.

STOT - single exposure Central nervous system (CNS) Respiratory system
STOT - repeated exposure Liver Kidney Blood

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting
Endocrine Disruptor Information No information available

Other Adverse Effects Tumorigenic effects have been reported in experimental animals. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Methylene chloride	EC50:>660 mg/L/96h	Pimephales promelas: LC50:193 mg/L/96h	EC50: 1 mg/L/24 h EC50: 2.88 mg/L/15 min	EC50: 140 mg/L/48h
Methyl alcohol	Not listed	Pimephales promelas: LC50 > 10000 mg/L 96h	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	EC50 > 10000 mg/L 24h
Cyclohexene	Not listed	Poecillia reticulata: 7.1 mg/L/96h	Not listed	Daphnia: EC50: 5.3 mg/L/48h
2-Methyl-2-butene	Not listed	Not listed	Not listed	EC50: = 3 mg/L, 48h (Daphnia magna)

Persistence and Degradability Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its volatility.

Component	log Pow
Methylene chloride	1.25
Methyl alcohol	-0.74

Cyclohexene	3.27

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Methylene chloride - 75-09-2	U080	-
Methyl alcohol - 67-56-1	U154	-

14. Transport information

DOT

UN-No UN1593
Proper Shipping Name DICHLOROMETHANE
Hazard Class 6.1
Packing Group III

TDG

UN-No UN1593
Proper Shipping Name DICHLOROMETHANE
Hazard Class 6.1
Packing Group III

IATA

UN-No UN1593
Proper Shipping Name Dichloromethane
Hazard Class 6.1
Packing Group III

IMDG/IMO

UN-No UN1593
Proper Shipping Name Dichloromethane
Hazard Class 6.1
Packing Group III

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Methylene chloride	X	X	-	200-838-9	-		X	X	X	X	X
Methyl alcohol	X	X	-	200-659-6	-		X	X	X	X	X
Cyclohexene	X	X	-	203-807-8	-		X	X	X	X	X
2-Methyl-2-butene	X	X	-	208-156-3	-		X	X	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Methylene chloride	75-09-2	>99.5	0.1
Methyl alcohol	67-56-1	0 - 0.4	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Methylene chloride	-	-	X	X

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Methylene chloride	X		-
Methyl alcohol	X		-

OSHA Occupational Safety and Health Administration

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Methylene chloride	125 ppm STEL 12.5 ppm Action Level 25 ppm TWA	-

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Methylene chloride	1000 lb 1 lb	-
Methyl alcohol	5000 lb	-

California Proposition 65 This product contains the following proposition 65 chemicals

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Methylene chloride	75-09-2	Carcinogen	200 µg/day 50 µg/day	Carcinogen
Methyl alcohol	67-56-1	Developmental	-	Developmental

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Methylene chloride	X	X	X	X	X
Methyl alcohol	X	X	X	X	X
Cyclohexene	X	X	X	-	X
2-Methyl-2-butene	X	X	X	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):	Y
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D1B Toxic materials
D2A Very toxic materials

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 27-Jan-2010
Revision Date 02-Oct-2015
Print Date 02-Oct-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

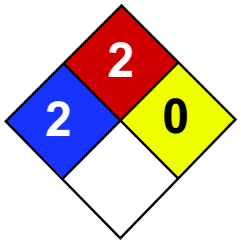

Health	2
Fire	2
Reactivity	0
Personal Protection	E

Material Safety Data Sheet
Naphthalene MSDS

Section 1: Chemical Product and Company Identification

Product Name: Naphthalene

Catalog Codes: SLN1789, SLN2401

CAS#: 91-20-3

RTECS: QJ0525000

TSCA: TSCA 8(b) inventory: Naphthalene

CI#: Not available.

Synonym:

Chemical Name: Not available.

Chemical Formula: C10H8

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Naphthalene	91-20-3	100

Toxicological Data on Ingredients: Naphthalene: ORAL (LD50): Acute: 490 mg/kg [Rat]. 533 mg/kg [Mouse]. 1200 mg/kg [Guinea pig]. DERMAL (LD50): Acute: 20001 mg/kg [Rabbit]. VAPOR (LC50): Acute: 170 ppm 4 hour(s) [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects:
Very hazardous in case of ingestion. Hazardous in case of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (irritant, permeator). Severe over-exposure can result in death.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Classified Development toxin [POSSIBLE]. The substance is toxic to blood, kidneys, the nervous system, the reproductive system, liver, mucous membranes, gastrointestinal tract, upper respiratory tract, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact: Not available.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion:
Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 567°C (1052.6°F)

Flash Points: CLOSED CUP: 88°C (190.4°F). OPEN CUP: 79°C (174.2°F).

Flammable Limits: LOWER: 0.9% UPPER: 5.9%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
Flammable solid. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill:
Flammable solid. Stop leak if without risk. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep locked up Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Avoid contact with eyes Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage:
Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. Keep container dry. Keep in a cool place.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:
Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
Israel: TWA: 10 (ppm) TWA: 10 STEL: 15 (ppm) from ACGIH (TLV) [1995] TWA: 52 STEL: 79 (mg/m3) from ACGIH [1995]
Australia: STEL: 15 (ppm) Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Crystalline solid.)

Odor: Aromatic.

Taste: Not available.

Molecular Weight: 128.19 g/mole

Color: White.

pH (1% soln/water): Not available.

Boiling Point: 218°C (424.4°F)

Melting Point: 80.2°C (176.4°F)

Critical Temperature: Not available.

Specific Gravity: 1.162 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: 4.4 (Air = 1)

Volatility: Not available.

Odor Threshold: 0.038 ppm

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties:
Partially dispersed in hot water, methanol, n-octanol. Very slightly dispersed in cold water. See solubility in methanol, n-octanol.

Solubility:
Partially soluble in methanol, n-octanol. Very slightly soluble in cold water, hot water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Highly reactive with oxidizing agents.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: May attack some forms of rubber and plastic

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 490 mg/kg [Rat]. Acute dermal toxicity (LD50): 20001 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 170 ppm 4 hour(s) [Rat].

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH. DEVELOPMENTAL TOXICITY: Classified Development toxin [POSSIBLE]. The substance is toxic to blood, kidneys, the nervous system, the reproductive system, liver, mucous membranes, gastrointestinal tract, upper respiratory tract, central nervous system (CNS).

Other Toxic Effects on Humans:
Very hazardous in case of ingestion. Hazardous in case of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Ecotoxicity in water (LC50): 305.2 ppm 96 hour(s) [Trout].

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: CLASS 4.1: Flammable solid.

Identification: : Naphthalene, refined : UN1334 PG: III

Special Provisions for Transport: Marine Pollutant

Section 15: Other Regulatory Information

Federal and State Regulations:
Rhode Island RTK hazardous substances: Naphthalene Pennsylvania RTK: Naphthalene Florida: Naphthalene Minnesota: Naphthalene Massachusetts RTK: Naphthalene TSCA 8(b) inventory: Naphthalene TSCA 8(a) PAIR: Naphthalene TSCA 8(d) H and S data reporting: Naphthalene: 06/01/87 SARA 313 toxic chemical notification and release reporting: Naphthalene: 1% CERCLA: Hazardous substances.: Naphthalene: 100 lbs. (45.36 kg)

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):
CLASS B-4: Flammable solid. CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC):
R36- Irritating to eyes. R40- Possible risks of irreversible effects. R48/22- Harmful: danger of serious damage to health by prolonged exposure if swallowed. R48/23- Toxic: danger of serious damage to health by prolonged exposure through inhalation. R63- Possible risk of harm to the unborn child.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 2

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 2

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/11/2005 01:30 PM

Last Updated: 11/06/2008 12:00 PM

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SAFETY DATA SHEET

Creation Date 04-Oct-2010 **Revision Date** 10-Feb-2015 **Revision Number** 1

1. Identification

Product Name **Nickel, powder**

Cat No. : **AC193610000; AC193610250; AC193611000; AC193615000**

Synonyms Raney alloy

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity - (repeated exposure)	Category 1
Target Organs - Kidney, Blood.	

Label Elements

Signal Word
Danger

Hazard Statements
May cause an allergic skin reaction
Causes damage to organs through prolonged or repeated exposure
Suspected of causing cancer

Precautionary Statements

Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Contaminated work clothing should not be allowed out of the workplace
Response
IF exposed or concerned: Get medical attention/advice
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
Storage
Store locked up
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Harmful to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Nickel powder	7440-02-0	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms/effects May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature 400 °C / 752 °F
Explosion Limits
Upper No data available
Lower No data available

Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Combustible material.

Hazardous Combustion Products
Nickel oxides.
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
3	1	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Avoid dust formation.

Environmental Precautions Should not be released into the environment. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

7. Handling and storage

Handling Use only under a chemical fume hood. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Do not breathe vapors/dust. Do not ingest.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Nickel powder	TWA: 1.5 mg/m³	(Vacated) TWA: 1 mg/m³ TWA: 1 mg/m³	IDLH: 10 mg/m³ TWA: 0.015 mg/m³

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Nickel powder	TWA: 1 mg/m³	TWA: 1 mg/m³	TWA: 1 mg/m³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Brown
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	1455 °C / 2651 °F
Boiling Point/Range	2730 °C / 4946 °F
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1 mmHg @ 1810 °C
Vapor Density	No information available
Relative Density	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	400 °C / 752 °F
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	Ni
Molecular Weight	58.7

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Nickel oxides

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Nickel powder	9000 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization May cause sensitization by skin contact Nickel and nickel compounds may cause a form of dermatitis known as nickel itch. May cause an allergic skin reaction

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Nickel powder	7440-02-0	Group 2B	Reasonably Anticipated	Not listed	X	Not listed

IARC: (International Agency for Research on Cancer) *Group 2B - Possibly Carcinogenic to Humans*

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure Kidney Blood

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing
Endocrine Disruptor Information No information available

Other Adverse Effects See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity
Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Do not empty into drains. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Nickel powder	0.18 mg/L EC50 = 72 h 0.174 - 0.311 mg/L EC50 96 h	10.4 mg/L LC50 96 h 1.3 mg/L LC50 96 h 100 mg/L LC50 96 h	Not listed	1 mg/L EC50 = 48 h 100 mg/L EC50 > 48 h

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility No information available.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT
- **UN-No** UN3089
- **Proper Shipping Name** METAL POWDERS, FLAMMABLE, N.O.S.
- **Hazard Class** 4.1
- **Packing Group** II

TDG
- **UN-No** UN3089
- **Proper Shipping Name** METAL POWDERS, FLAMMABLE, N.O.S.
- **Hazard Class** 4.1
- **Packing Group** II

IATA

UN-No 3089
Proper Shipping Name METAL POWDERS, FLAMMABLE, N.O.S.
Hazard Class 4.1
Packing Group II

IMDG/IMO

UN-No 3089
Proper Shipping Name METAL POWDERS, FLAMMABLE, N.O.S.
Hazard Class 4.1
Packing Group II

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Nickel powder	X	X	-	231-111-4	-		X	-	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Nickel powder	7440-02-0	>95	0.1

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Nickel powder	-	-	X	X

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Nickel powder	X		-

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Nickel powder	100 lb	-

California Proposition 65 This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Nickel powder	7440-02-0	Carcinogen	-	Carcinogen

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Nickel powder	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D2A Very toxic materials

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 04-Oct-2010
Revision Date 10-Feb-2015
Print Date 10-Feb-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

Safety Data Sheet
acc. to OSHA HCS

Printing date 09/30/2022 Revision date 09/30/2022

1 Identification

· **Product identifier**

· **Trade name:** **Nitrite Standard**

· **Article number:** 780016

· **Application of the substance / the mixture**
This product is for research use - Not for human or veterinary diagnostic or therapeutic use.

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**
Cayman Chemical Co.
1180 E. Ellsworth Rd.
Ann Arbor, MI 48108
USA

· **Information department:** Product safety department

· **Emergency telephone number:**
During normal opening times: +1 (734) 971-3335
US/CANADA: 800-424-9300
Outside US/CANADA: 703-741-5970

2 Hazard(s) identification

· **Classification of the substance or mixture**

GHS03 Flame over circle

Ox. Sol. 3 H272 May intensify fire; oxidizer.

GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

GHS09 Environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

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Eye Irrit. 2A	H319 Causes serious eye irritation.
STOT SE 3	H335 May cause respiratory irritation.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**

GHS03 GHS06 GHS07 GHS09

· **Signal word** Danger

· **Hazard-determining components of labeling:**
Sodium nitrite
Tris base
· **Hazard statements**
H272 May intensify fire; oxidizer.
H301 Toxic if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
· **Precautionary statements**

P210	Keep away from heat.
P220	Keep/Store away from clothing/combustible materials.
P221	Take any precaution to avoid mixing with combustibles.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P302+P352	If on skin: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a poison center/doctor if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use CO_2, powder or water spray to extinguish.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

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· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

Health = 2
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 2
Fire = 0
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 77-86-1 RTECS: TY2900000	Tris base	63.68%
CAS: 7632-00-0 RTECS: RA1225000	Sodium nitrite	36.32%

4 First-aid measures

· **Description of first aid measures**
· **General information:**
Immediately remove any clothing soiled by the product.
In case of irregular breathing or respiratory arrest provide artificial respiration.
· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:** Do not induce vomiting; immediately call for medical help.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed**
May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.
No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

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5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
Use fire fighting measures that suit the environment.
A solid water stream may be inefficient.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.
· **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
77-86-1	Tris base	18 mg/m³
7632-00-0	Sodium nitrite	6.4 mg/m³

· **PAC-2:**		
77-86-1	Tris base	190 mg/m³
7632-00-0	Sodium nitrite	71 mg/m³

· **PAC-3:**		
77-86-1	Tris base	1,200 mg/m³
7632-00-0	Sodium nitrite	240 mg/m³

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:** Store in accordance with information listed on the product insert.
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** Keep receptacle tightly sealed.

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· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
· **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:**

Tightly sealed goggles

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Lyophilized powder
Color:	According to product specification
· **Odor:**	Characteristic
· **Odor threshold:**	Not determined.
· **pH-value:**	Not applicable.
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· **Flash point:**	Not applicable.
· **Flammability (solid, gaseous):**	Not determined.
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure:**	Not applicable.
· **Density at 20 °C (68 °F):**	1.32233 g/cm³ (11.03484 lbs/gal)
· **Bulk density:**	1,322 kg/m³
· **Relative density**	Not determined.
· **Vapor density**	Not applicable.
· **Evaporation rate**	Not applicable.
· **Solubility in / Miscibility with**	
Water:	Soluble.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· **Solvent content:**	
VOC content:	0.00 %
Solids content:	100.0 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.

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· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
ATE (Acute Toxicity Estimate)		
Oral	LD50	234 mg/kg (rat)

77-86-1 Tris base		
Oral	TDLO	3,000 ml/kg (mouse)
	LD50	5,500 mg/kg (mouse)
		5,900 mg/kg (rat)
	Intraperitoneal LD50	3,350 mg/kg (mouse)
	Intrapritoneal LD50	3,350 mg/kg (mouse)
7632-00-0 Sodium nitrite		
Oral	LDLO	321 mg/kg (man)
	LD50	175 mg/kg (mouse)
		85 mg/kg (rat)
	Subcutaneous LD50	96,600 µg/kg (rat)
	Intraperitoneal LD50	158 mg/kg (mouse)
	Subcutaneous LD50	150 mg/kg (mouse)

· **Primary irritant effect:**
· **on the skin:** Irritant to skin and mucous membranes.
· **on the eye:** Irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Toxic
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.

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· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Ecotoxical effects:**
· **Remark:** Very toxic for fish
· **Additional ecological information:**
· **General notes:**
Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Very toxic for aquatic organisms
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**	
· **DOT, IMDG, IATA**	UN3077
· **UN proper shipping name**	
· **DOT**	Environmentally hazardous substance, solid, n.o.s.
· **IMDG**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SODIUM NITRITE), MARINE POLLUTANT
· **IATA**	Environmentally hazardous substance, solid, n.o.s. (SODIUM NITRITE)
· **Transport hazard class(es)**	
· **DOT**	

· **Class**	9 Miscellaneous dangerous substances and articles

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· **Label**	9
· **IMDG, IATA**	
· **Class**	9 Miscellaneous dangerous substances and articles
· **Label**	9
· **Packing group**	
· **DOT, IMDG, IATA**	III
· **Environmental hazards:**	
· **Marine pollutant:**	Symbol (fish and tree)
· **Special marking (IATA):**	Symbol (fish and tree)
· **Special precautions for user**	Warning: Miscellaneous dangerous substances and articles
· **Hazard identification number (Kemler code):**	90
· **EMS Number:**	F-A,S-F
· **Segregation groups**	Nitrites and their mixtures
· **Stowage Category**	A
· **Stowage Code**	SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **DOT**	
· **Quantity limitations**	On passenger aircraft/rail: 400 kg On cargo aircraft only: 400 kg
· **IMDG**	
· **Limited quantities (LQ)**	5 kg
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· **IATA**	
· **Remarks:**	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
· **UN "Model Regulation":**	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SODIUM NITRITE), 9, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.

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· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

7632-00-0	Sodium nitrite

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

· **Department issuing SDS:** Environment protection department.
· **Contact:** -
· **Date of preparation / last revision** 09/30/2022 / -
· **Abbreviations and acronyms:**
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)

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HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Ox. Sol. 3: Oxidizing solids – Category 3
Acute Tox. 3: Acute toxicity – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

SAFETY DATA SHEET

Creation Date 01-May-2012 **Revision Date** 11-Aug-2014 **Revision Number** 1

1. Identification

Product Name **Phenanthrene**

Cat No. : **AC130090000; AC130090050; AC130090500; AC130095000**

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4

Label Elements

Signal Word
Warning

Hazard Statements
Harmful if swallowed

Precautionary Statements
Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Phenanthrene	85-01-8	>95

4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Obtain medical attention. Wash off immediately with plenty of water for at least 15 minutes.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

Most important symptoms/effects None reasonably foreseeable.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature Not applicable
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO_2)
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
1	1	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

Environmental Precautions Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

- **Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- **Skin and body protection** Long sleeved clothing.
- **Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
- **Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Beige
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	95 - 101 °C / 203 - 213.8 °F
Boiling Point/Range	336 °C / 636.8 °F
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1 mmHg @ 116 °C
Vapor Density	Not applicable
Relative Density	1.063
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition temperature	No information available
Viscosity	Not applicable
Molecular Formula	C14 H10
Molecular Weight	178.23

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information
Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phenanthrene	1.8 g/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Phenanthrene	85-01-8	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea

Phenanthrene	Not listed	LC50 = 3.2 mg/L 96h	Not listed	LC50 = 0.35 mg/L 48h

Persistence and Degradability Insoluble in water May persist

Bioaccumulation/ Accumulation No information available.

Mobility . Is not likely mobile in the environment due its low water solubility.

Component	log Pow
Phenanthrene	4.46

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID, N.O.S.
Hazard Class 9
Packing Group III

TDG

UN-No UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE,SOLID, N.O.S.
Hazard Class 9
Packing Group III

IATA

UN-No UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.*
Hazard Class 9
Packing Group III

IMDG/IMO

UN-No UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class 9
Packing Group III

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Phenanthrene	X	X	-	201-581-5	-		X	X	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Phenanthrene	85-01-8	>95	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Phenanthrene	-	-	X	X

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Phenanthrene	5000 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Phenanthrene	X	X	X	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class Non-controlled

16. Other information

Prepared By Regulatory Affairs

Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date	01-May-2012
Revision Date	11-Aug-2014
Print Date	11-Aug-2014
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

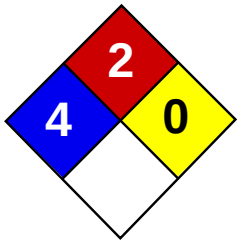

Health	3
Fire	2
Reactivity	0
Personal Protection	J

Material Safety Data Sheet
Phenol MSDS

Section 1: Chemical Product and Company Identification

Product Name: Phenol

Catalog Codes: SLP4453, SLP5251

CAS#: 108-95-2

RTECS: SJ3325000

TSCA: TSCA 8(b) inventory: Phenol

CI#: Not available.

Synonym: Monohydroxybenzene; Benzenol; Phenyl hyroxide; Phenylic acid

Chemical Name: Carbolic Acid

Chemical Formula: C6H5OH

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Phenol	108-95-2	100

Toxicological Data on Ingredients: Phenol: ORAL (LD50): Acute: 317 mg/kg [Rat]. 270 mg/kg [Mouse]. DERMAL (LD50): Acute: 630 mg/kg [Rabbit]. 669 mg/kg [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects:
Very hazardous in case of skin contact (corrosive, irritant), of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (sensitizer, permeator). The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys, liver, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage. Repeated

exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Skin Contact:
In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: 715°C (1319°F)

Flash Points: CLOSED CUP: 79°C (174.2°F). OPEN CUP: 85°C (185°F).

Flammable Limits: LOWER: 1.7% UPPER: 8.6%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances:
Flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards:
Phenol + nitrides results in heat and flammable gas generation. Phenol + mineral oxdizing acids results in fire. Phenol + calcium hypochlorite is an exothermic reaction producing toxic fumes which may ignite.

Special Remarks on Explosion Hazards:
Phenol + sodium nitrite causes explosion on heating. Peroxydisulfuric acid + phenol causes explosion.

Section 6: Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill:
Corrosive solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep locked up.. Keep container dry. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids.

Storage:
Air Sensitive. Sensitive to light. Store in light-resistant containers. Moisture sensitive. Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:
Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 5 (ppm) from ACGIH (TLV) [United States] SKIN TWA: 19 (mg/m3) from ACGIH (TLV) [United States] SKIN TWA: 5 from NIOSH [United States] TWA: 19 (mg/m3) from NIOSH [United States] TWA: 5 (ppm) from OSHA (PEL) [United States] TWA: 19 (mg/m3) from OSHA (PEL) [United States] TWA: 5 (ppm) [Canada] TWA: 19 (mg/m3) [Canada]Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid.

Odor:
Distinct, aromatic, somewhat sickening sweet and acrid

Taste: Burning.

Molecular Weight: 94.11 g/mole

Color: Colorless to light pink

pH (1% soln/water): Not available.

Boiling Point: 182°C (359.6°F)

Melting Point: 42°C (107.6°F)

Critical Temperature: 694.2 (1281.6°F)

Specific Gravity: 1.057 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: 3.24 (Air = 1)

Volatility: Not available.

Odor Threshold: 0.048 ppm

Water/Oil Dist. Coeff.: The product is more soluble in oil; log(oil/water) = 1.5

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, methanol, diethyl ether, acetone.

Solubility:
Easily soluble in methanol, diethyl ether. Soluble in cold water, acetone. Solubility in water: 1g/15 ml water. Soluble in benzene. Very soluble in alcohol, chloroform, glycerol, petroleum, carbon disulfide, volatile and fixed oils, aqueous alkali hydroxides, carbon tetrachloride, acetic acid, liquid sulfur dioxide. Almost insoluble in petroleum ether. Miscible in acetone. Sparingly soluble in mineral oil.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Heat, ignition sources (flames, sparks), light, incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents, metals, acids, alkalis.

Corrosivity:
Extremely corrosive in presence of copper. Slightly corrosive in presence of stainless steel(304), of stainless steel(316). Non-corrosive in presence of glass, of aluminum.

Special Remarks on Reactivity:
Air and light sensitive. Prone to redden on exposure to light and air. Incompatible with aluminum chloride, peroxydisulfuirc acid, acetaldehyde, sodium nitrite, boron trifluoride diethyl ether + 1,3-butadiene, isocyanates, nitrides, mineral oxidizing acids, calcium hypochlorite, halogens, formaldehyde, metals and alloys, lead, zinc, magnesium and their alloys, plastics, rubber, coatings, sodium nitrate + trifluoroacetic acid. Phenol + isocyanates results in heat generation, and violent polymerization. Phenol + 1,3-butadiene and boron trifluoride diethyl ether complex results in intense exothermic reaction. Phenol + acetaldehyde resultes in violent condensation.

Special Remarks on Corrosivity:
Minor corrosive effect on bronze. Severe corrosive effect on brass.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:
Acute oral toxicity (LD50): 270 mg/kg [Mouse]. Acute dermal toxicity (LD50): 630 mg/kg [Rabbit].

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. May cause damage to the following organs: kidneys, liver, central nervous system (CNS).

Other Toxic Effects on Humans:
Very hazardous in case of skin contact (corrosive, irritant), of ingestion, . Hazardous in case of skin contact (sensitizer, permeator), of eye contact (corrosive), of inhalation (lung corrosive).

Special Remarks on Toxicity to Animals:
Lowest Published Lethal Dose: LDL [Human] - Route: Oral; Dose: 140 mg/kg LDL [Infant] - Route: Oral; Dose: 10,000 mg/kg

Special Remarks on Chronic Effects on Humans:
Animal: passes through the placental barrier. May cause adverse reproductive effects and birth defects (teratogenic) Embryotoxic and/or foetotoxic in animal. May affect genetic material (mutagenic).

Special Remarks on other Toxic Effects on Humans:

Section 12: Ecological Information

Ecotoxicity:
Ecotoxicity in water (LC50): 125 mg/l 24 hours [Fish (Goldfish)]. >50 mg/l 1 hours [Fish (Fathead minnow)]. >50 mg/l 24 hours [Fish (Fathead minnow)]. >33 mg/l 72 hours [Fish (Fathead minnow)]. >33 ppm 96 hours [Fish (Fathead minnow)].

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: CLASS 6.1: Poisonous material.

Identification: : Phenol, solid UNNA: 1671 PG: II

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
Connecticut hazardous material survey.: Phenol Illinois toxic substances disclosure to employee act: Phenol Illinois chemical safety act: Phenol New York release reporting list: Phenol Rhode Island RTK hazardous substances: Phenol Pennsylvania RTK: Phenol Minnesota: Phenol Massachusetts RTK: Phenol Massachusetts spill list: Phenol New Jersey: Phenol New Jersey spill list: Phenol Louisiana RTK reporting list: Phenol Louisiana spill reporting: Phenol TSCA 8(b) inventory: Phenol TSCA 4(a) proposed test rules: Phenol TSCA 8(a) IUR: Phenol TSCA 8(d) H and S data reporting: Phenol: effective: 6/1/87; sunset:

6/01/97 SARA 302/304/311/312 extremely hazardous substances: Phenol SARA 313 toxic chemical notification and release reporting: Phenol CERCLA: Hazardous substances.: Phenol: 1000 lbs. (453.6 kg)

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):
CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC). CLASS E: Corrosive solid.

DSCL (EEC):
R24/25- Toxic in contact with skin and if swallowed. R34- Causes burns. R40- Possible risks of irreversible effects. R43- May cause sensitization by skin contact. R52- Harmful to aquatic organisms. S1/2- Keep locked up and out of the reach of children. S24- Avoid contact with skin. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of water S37/39- Wear suitable gloves and eye/face protection. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S46- If swallowed, seek medical advice immediately and show this container or label. S56- Dispose of this material and its container at hazardous or special waste collection point.

HMIS (U.S.A.):

Health Hazard: 3

Fire Hazard: 2

Reactivity: 0

Personal Protection: j

National Fire Protection Association (U.S.A.):

Health: 4

Flammability: 2

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/10/2005 11:17 AM

Last Updated: 05/21/2013 12:00 PM

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Potassium

MSDS # 578.00

Section 1: Product and Company Identification

Potassium

Synonyms/General Names: Kalium
Product Use: For educational use only
Manufacturer: Columbus Chemical Industries, Inc., Columbus, WI 53925.

24 Hour Emergency Information Telephone Numbers

CHEMTREC (USA): 800-424-9300 **CANUTEC (Canada): 613-424-6666**

ScholAR Chemistry; 5100 W. Henrietta Rd, Rochester, NY 14586; (866) 260-0501; www.Scholarchemistry.com

Section 2: Hazards Identification

Soft, silvery metal, turning grey on exposure to air, no odor.

HMIS (0 to 4)

Health	3
Fire Hazard	4
Reactivity	3

DANGER! Flammable solid, contact with water produces heat, flammable hydrogen gas and possibly fire. Dangerous fire risk. Toxic by ingestion and corrosive to body tissue.
Target organs: None available
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Section 3: Composition / Information on Ingredients

Potassium (7440-09-7), >99%

Section 4: First Aid Measures

Always seek professional medical attention after first aid measures are provided.

Eyes: Immediately flush eyes with excess water for 15 minutes, lifting lower and upper eyelids occasionally.
Skin: Immediately flush skin with excess water for 15 minutes while removing contaminated clothing.
Ingestion: Call Poison Control immediately. Rinse mouth with cold water. Give victim 1-2 tbsp of activated charcoal mixed with 8 oz water.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration.

Section 5: Fire Fighting Measures

Flammable solid and water reactive. When heated to decomposition, emits acrid fumes of KOx.

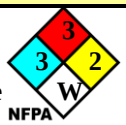

Protective equipment and precautions for firefighters: Do Not Use carbon dioxide, foam, water or halogenated extinguishing agents. Use class D extinguisher or smother with soda ash, dry sand, dry clay, dry sodium chloride or dry graphite. Firefighters should wear full fire fighting turn-out gear and respiratory protection (SCBA). Material is not sensitive to mechanical impact or static discharge.

Section 6: Accidental Release Measures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all ignition sources and ventilate area. Water-reactive metal – keep away from all water. Pick up pieces and place material in a dry container and cover completely with pure mineral oil for disposal.
See Section 13 for disposal information.

Section 7: Handling and Storage Red

Handling: Water-Reactive, keep away from water. Use with adequate ventilation and do not breathe dust or vapor. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling.

Storage: Store in Flammable Area [Red Storage] with other flammable materials and away from any strong oxidizers. Store in a dedicated flammables cabinet. Store in a cool, dry, well-ventilated, locked store room away from incompatible materials. Keep potassium metal immersed in mineral oil.

Section 8: Exposure Controls / Personal Protection

Use ventilation to keep airborne concentrations below exposure limits. Have approved eyewash facility, safety shower, and fire extinguishers readily available. Wear chemical splash goggles and chemical resistant clothing such as gloves and aprons. Wash hands thoroughly after handling material and before eating or drinking. Exposure guidelines: Potassium: OSHA PEL: N/A and ACGIH TLV: N/A, STEL: N/A.

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Section 9: Physical and Chemical Properties

Molecular formula	K.	**Appearance**	Soft, silvery-metal cubes, lumps.
Molecular weight	39.10.	**Odor**	No odor.
Specific Gravity	0.89 g/mL @ 20°C.	**Odor Threshold**	N/A.
Vapor Density (air=1)	N/A.	**Solubility**	Reacts violently.
Melting Point	63°C.	**Evaporation rate**	N/A. *(Butyl acetate = 1).*
Boiling Point/Range	774°C.	**Partition Coefficient**	N/A. *(log P_{OW}).*
Vapor Pressure (20°C)	N/A.	**pH**	N/A.
Flash Point:	N/A.	**LEL**	N/A.
Autoignition Temp.:	N/A.	**UEL**	N/A.

N/A = Not available or applicable

Section 10: Stability and Reactivity

Avoid heat, water, and ignition sources. Contact with water produces heat and flammable hydrogen gas.
Stability: Stable under normal conditions of use.
Incompatibility: Water, acids, oxidizing agents, oxygen, nitrogen and carbon dioxide.
Shelf life: Fair shelf live. Will form explosive peroxides with age. If surface contains yellow areas – do not use.

Section 11: Toxicology Information

Acute Symptoms/Signs of exposure: ***Eyes***: Stinging pain, burns, watering of eyes, inflammation of eyelids and conjunctivitis. Avoid looking at burning magnesium. ***Skin***: Irritation, redness, burns. Powdered metal reacts readily on skin causing burns. ***Ingestion***: Nausea, vomiting and headache. ***Inhalation***: Rapid irregular breathing, headache, burns to mucous membranes. Inhalation of dust or fumes causes metal fume fever.
Chronic Effects: Repeated/prolonged skin contact may cause dryness or rashes.
Sensitization: none expected
Potassium: LD50 [oral, rat]; N/A; LC50 [rat]; N/A; LD50 Dermal [rabbit]; N/A
Material has not been found to be a carcinogen nor produce genetic, reproductive, or developmental effects.

Section 12: Ecological Information

Ecotoxicity (aquatic and terrestrial): Ecological impact has not been determined.

Section 13: Disposal Considerations

Check with all applicable local, regional, and national laws and regulations. Local regulations may be more stringent than regional or national regulations. Use a licensed chemical waste disposal firm for proper disposal.

Section 14: Transport Information

DOT Shipping Name:	Potassium.	**Canada TDG:**	Potassium.
DOT Hazard Class:	4.3, pg I.	**Hazard Class:**	4.3, pg I.
Identification Number:	UN2257.	**UN Number:**	UN2257.

Section 15: Regulatory Information

EINECS: Listed (231-119-8) .
TSCA: All components are listed or are exempt.
WHMIS Canada: B6, E: Reactive flammable material, Corrosive.
California Proposition 65: Not listed.

The product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16: Other Information

Current Issue Date: September 22, 2012

Disclaimer: Scholar Chemistry and Columbus Chemical Industries, Inc., ("S&C") believes that the information herein is factual but is not intended to be all inclusive. The information relates only to the specific material designated and does not relate to its use in combination with other materials or its use as to any particular process. Because safety standards and regulations are subject to change and because S&C has no continuing control over the material, those handling, storing or using the material should satisfy themselves that they have current information regarding the particular way the material is handled, stored or used and that the same is done in accordance with federal, state and local law. ***S&C makes no warranty, expressed or implied, including (without limitation) warranties with respect to the completeness or continuing accuracy of the information contained herein or with respect to fitness for any particular use.***

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SAFETY DATA SHEET

Creation Date 01-Jul-2010 **Revision Date** 10-Feb-2015 **Revision Number** 1

1. Identification

Product Name **Pyrene**

Cat No. : **AC180830000; AC180830250; AC180831000; AC180835000**

Synonyms Benzo[def]phenanthrene

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Central nervous system (CNS).	
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Liver.	

Label Elements

Signal Word
Warning

Hazard Statements
Causes skin irritation
Causes serious eye irritation
May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure

Precautionary Statements
Prevention
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Do not get in eyes, on skin, or on clothing
Response
Get medical attention/advice if you feel unwell
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Skin
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation occurs: Get medical advice/attention
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Pyrene	129-00-0	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion Do not induce vomiting. Obtain medical attention.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available

Flash Point	210 °C / 410 °F
Method -	No information available
Autoignition Temperature	No information available
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical
Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO_2)
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

6. Accidental release measures

Personal Precautions	Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.
Environmental Precautions	Should not be released into the environment. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.
Methods for Containment and Clean Up	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

7. Handling and storage

Handling	Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid ingestion and inhalation.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Yellow
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	148 - 152 °C / 298 - 306 °F
Boiling Point/Range	393 °C / 739.4 °F @ 760 mmHg
Flash Point	210 °C / 410 °F
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C16 H10
Molecular Weight	202.25

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Pyrene	2700 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes and skin

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Pyrene	129-00-0	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Central nervous system (CNS)
STOT - repeated exposure Liver

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available
Endocrine Disruptor Information No information available

Other Adverse Effects Tumorigenic effects have been reported in experimental animals. The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not empty into drains. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Pyrene	Not listed	Oncorhynchus mykiss: LC50 > 2mg/L 96h	Not listed	EC50 48h 1.8 mg/L EC50 48h 0.002-0.003 mg/L

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility .

Component	log Pow
Pyrene	4.88

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT
- **UN-No** UN3077
- **Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s
- **Proper technical name** Pyrene
- **Hazard Class** 9
- **Packing Group** III

TDG
- **UN-No** UN3077
- **Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s.
- **Hazard Class** 9
- **Packing Group** III

IATA

UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s
Hazard Class	9
Packing Group	III

IMDG/IMO

UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s
Hazard Class	9
Packing Group	III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Pyrene	X	X	-	204-927-3	-		X	X	X	X	-

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Pyrene	-	-	X	X

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Pyrene	5000 lb	5000 lb

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Pyrene	X	X	X	X	-

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D2B Toxic materials

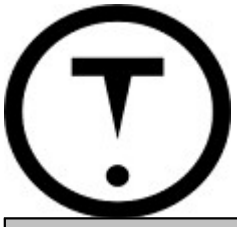

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 01-Jul-2010
Revision Date 10-Feb-2015
Print Date 10-Feb-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Revision Date 10-Feb-2015 **Revision Number** 1

1. Identification

Product Name **Selenium**

Cat No. : **AC419270000; AC419271000; AC419275000**

Synonyms None

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 3
Specific target organ toxicity - (repeated exposure)	Category 2

Label Elements

Signal Word
Danger

Hazard Statements
Toxic if swallowed
Toxic if inhaled
May cause damage to organs through prolonged or repeated exposure

Precautionary Statements
Prevention

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Response
Get medical attention/advice if you feel unwell
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician
Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
May cause long lasting harmful effects to aquatic life

3. Composition / information on ingredients

Component	CAS-No	Weight %
Selenium	7782-49-2	> 99.5

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required.

Ingestion Do not induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Call a physician immediately. If possible drink milk afterwards.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO_2). Dry chemical. chemical foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Vapors may form explosive mixtures with air.

Hazardous Combustion Products
None known
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
3	0	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. Handling and storage

Handling Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep under nitrogen.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Selenium	TWA: 0.2 mg/m³	(Vacated) TWA: 0.2 mg/m³	IDLH: 1 mg/m³ TWA: 0.2 mg/m³

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Selenium	TWA: 0.2 mg/m³	TWA: 0.2 mg/m³	TWA: 0.2 mg/m³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Grey
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point/Range	217 - 222 °C / 422.6 - 431.6 °F
Boiling Point/Range	685 °C / 1265 °F
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1 mmHg @ 345 °C
Vapor Density	No information available
Relative Density	4.810
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	Se
Molecular Weight	78.96

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Acids, Strong oxidizing agents, Fluorine, oxygen, Metals

Hazardous Decomposition Products None under normal use conditions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Selenium	6700 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Selenium	7782-49-2	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available
Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity
Do not empty into drains.

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility No information available.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT
- **UN-No** UN3283
- **Hazard Class** 6.1
- **Packing Group** III

TDG
- **UN-No** UN3283
- **Hazard Class** 6.1
- **Packing Group** III

IATA
- **UN-No** 3283
- **Proper Shipping Name** SELENIUM COMPOUND, SOLID, N.O.S.
- **Hazard Class** 6.1
- **Packing Group** III

IMDG/IMO
- **UN-No** 3283
- **Proper Shipping Name** SELENIUM COMPOUND, SOLID, N.O.S.
- **Hazard Class** 6.1
- **Packing Group** III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Selenium	X	X	-	231-957-4	-		X	-	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Selenium	7782-49-2	> 99.5	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Selenium	-	-	X	X

Clean Air Act Not applicable

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Selenium	X		-

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Selenium	100 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Selenium	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D1A Very toxic materials
D2B Toxic materials

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Revision Date 10-Feb-2015
Print Date 10-Feb-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
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End of SDS

SAFETY DATA SHEET

Version 4.6
Revision Date 12/02/2015
Print Date 02/09/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Silver

Product Number : 327093
Brand : Aldrich

CAS-No. : 7440-22-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula : Ag
Molecular weight : 107.87 g/mol
CAS-No. : 7440-22-4
EC-No. : 231-131-3

Hazardous components

Component	Classification	Concentration
Silver		
		<= 100 %

4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Wash off with soap and plenty of water.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Silver/silver oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapours, mist or gas.
For personal protection see section 8.

6.2 Environmental precautions
No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Air sensitive. Store under inert gas. Keep in a dry place.
Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Silver	7440-22-4	TWA	0.010000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.010000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.100000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Argyria		
		TWA	0.010000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.010000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.010000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.100000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Argyria		
		TWA	0.010000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Argyria		
		TWA	0.01 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

8.2 Exposure controls

Appropriate engineering controls
General industrial hygiene practice.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 960 °C (1,760 °F) - lit.
f)	Initial boiling point and boiling range	2,212 °C (4,014 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	10.49 g/cm3
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Oxygen, Strong acids and strong bases

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - male - > 5,000 mg/kg

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

Carcinogenicity - Rat - Unreported
Tumorigenic:Tumors at site or application.

Carcinogenicity classification not possible from current data.

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

May cause argyria (a slate-gray or bluish discoloration of the skin and deep tissues due to the deposit of insoluble albuminate of silver).

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Silver)
Reportable Quantity (RQ): 1 lbs

Poison Inhalation Hazard: No

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Silver	7440-22-4	1993-04-24

SARA 311/312 Hazards
No SARA Hazards

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Silver	7440-22-4	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date

Silver	7440-22-4	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Silver	7440-22-4	1993-04-24

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.6 Revision Date: 12/02/2015 Print Date: 02/09/2016

SAFETY DATA SHEET

Version 4.11
Revision Date 03/05/2015
Print Date 02/07/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Sodium
Product Number	:	483745
Brand	:	Aldrich
CAS-No.	:	7440-23-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Substances and mixtures, which in contact with water, emit flammable gases (Category 1), H260
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Carcinogenicity (Category 1A), H350

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H260	In contact with water releases flammable gases which may ignite spontaneously.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H350	May cause cancer.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P223	Keep away from any possible contact with water, because of violent reaction and possible flash fire.

P231 + P232	Handle under inert gas. Protect from moisture.
P260	Do not breathe dust or mist.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P281	Use personal protective equipment as required.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P402 + P404	Store in a dry place. Store in a closed container.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Reacts violently with water.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Formula : Na
Molecular weight : 22.99 g/mol

Hazardous components

Component		Classification	Concentration
Sodium			
CAS-No. EC-No. Index-No.	7440-23-5 231-132-9 011-001-00-0	Water-react. 1; Skin Corr. 1B; Eye Dam. 1; H260, H314	>= 90 - <= 100 %
Paraffin oils			
CAS-No. EC-No.	8012-95-1 232-384-2	Carc. 1A; H350	>= 90 - <= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.Continue rinsing eyes during transport to hospital.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Dry powder

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Never allow product to get in contact with water during storage.

Handle and store under inert gas. Air sensitive.
Storage class (TRGS 510): Hazardous materials, which set free flammable gases upon contact with water

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Paraffin oils	8012-95-1	STEL	10.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation 2014 Adoption Not classifiable as a human carcinogen		
		Upper Respiratory Tract irritation 2014 Adoption Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Upper Respiratory Tract irritation Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		
		TWA	5.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen		
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Upper Respiratory Tract irritation Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Pieces
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 97.8 °C (208.0 °F) - lit.
f)	Initial boiling point and boiling range	883 °C (1,621 °F) - lit.
g)	Flash point	82 °C (180 °F)
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	0.97 g/cm3

n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts violently with water.

10.4 Conditions to avoid
Air Do not allow water to enter container.
Exposure to moisture

10.5 Incompatible materials
Oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: 1 - Group 1: Carcinogenic to humans (Paraffin oils)

NTP: Known to be human carcinogenThe reference note has been added by TD based on the background information of the NTP. (Paraffin oils)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Aspiration may lead to:, lipid pneumonia, Effects due to ingestion may include:, laxative effect, Gastrointestinal disturbance, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1428 Class: 4.3 Packing group: I
Proper shipping name: Sodium
Reportable Quantity (RQ): 10 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1428 Class: 4.3 Packing group: I EMS-No: F-G, S-N
Proper shipping name: SODIUM

IATA
UN number: 1428 Class: 4.3 Packing group: I
Proper shipping name: Sodium
IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Sodium	7440-23-5	1993-04-24
Paraffin oils	8012-95-1	2007-03-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Sodium	7440-23-5	1993-04-24
Paraffin oils	8012-95-1	2007-03-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Sodium	7440-23-5	1993-04-24
Paraffin oils	8012-95-1	2007-03-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
Paraffin oils	8012-95-1	1987-02-27

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Carc.	Carcinogenicity
Eye Dam.	Serious eye damage
H260	In contact with water releases flammable gases which may ignite spontaneously.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H350	May cause cancer.
Skin Corr.	Skin corrosion
Water-react.	Substances and mixtures, which in contact with water, emit flammable gases

HMIS Rating

Health hazard:	3
Chronic Health Hazard:	*
Flammability:	4
Physical Hazard	2

NFPA Rating

Health hazard:	3
Fire Hazard:	4
Reactivity Hazard:	2
Special hazard.I:	W

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.11 Revision Date: 03/05/2015 Print Date: 02/07/2016

Sulfate Standard, 100 ppm

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/18/2013 Revision date: 05/03/2018 Supersedes: 05/03/2018 Version: 1.1

SECTION 1: Identification

1.1. Identification

Product form : Mixtures

Product name : Sulfate Standard, 100 ppm

Product code : LC25500

1.2. Recommended use and restrictions on use

Use of the substance/mixture : For laboratory and manufacturing use only.

Recommended use : Laboratory chemicals

Restrictions on use : Not for food, drug or household use

1.3. Supplier

LabChem Inc
Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court
Zelienople, PA 16063 - USA
T 412-826-5230 - F 724-473-0647
info@labchem.com - www.labchem.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or +1-703-741-5970

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. GHS Label elements, including precautionary statements

Not classified as a hazardous chemical.

Other hazards not contributing to the classification : None.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Water	(CAS-No.) 7732-18-5	99.985	Not classified
Sodium Sulfate, Anhydrous	(CAS-No.) 7757-82-6	0.015	Not classified

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Immediate medical attention and special treatment, if necessary

None. Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	:	Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	:	Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard	:	Not flammable.
Explosion hazard	:	Not available.
Reactivity	:	None.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	:	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	:	Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	:	None.

6.1.1. For non-emergency personnel

Emergency procedures	:	Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	:	Equip cleanup crew with proper protection.
Emergency procedures	:	Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment	:	Dam up the liquid spill.
Methods for cleaning up	:	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	:	Keep only in the original container in a cool, well ventilated place away from : incompatible materials. Keep container closed when not in use.
Incompatible products	:	Strong bases. Strong acids.
Incompatible materials	:	Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sodium Sulfate, Anhydrous (7757-82-6)
Not applicable

Water (7732-18-5)
Not applicable

8.2. Appropriate engineering controls

Appropriate engineering controls : Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Safety glasses.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Respiratory protection not required in normal conditions

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Clear, colorless liquid.
Color	:	Colorless
Odor	:	None.
Odor threshold	:	No data available
pH	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	Non flammable.
Vapor pressure	:	No data available
Relative vapor density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	No data available
Log Pow	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosion limits	:	No data available
Explosive properties	:	Not applicable.
Oxidizing properties	:	None.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Skin and eye contact

Acute toxicity : Not classified

Sodium Sulfate, Anhydrous (7757-82-6)	
LD50 oral rat	10000 mg/kg
ATE US (oral)	10000 mg/kg

Water (7732-18-5)	
LD50 oral rat	≥ 90000 mg/kg
ATE US (oral)	90000 mg/kg body weight

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified
Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Reproductive toxicity : Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Sodium Sulfate, Anhydrous (7757-82-6)	
LC50 fish 1	13500 - 14500 ml/l
EC50 Daphnia 1	2564 mg/l

12.2. Persistence and degradability

Sulfate Standard, 100 ppm	
Persistence and degradability	Not established.

Sodium Sulfate, Anhydrous (7757-82-6)	
Persistence and degradability	Not established.

Water (7732-18-5)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Sulfate Standard, 100 ppm	
Bioaccumulative potential	Not established.

Sodium Sulfate, Anhydrous (7757-82-6)	
Bioaccumulative potential	Not established.

Water (7732-18-5)	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

Sulfate Standard, 100 ppm
Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

CANADA

Sodium Sulfate, Anhydrous (7757-82-6)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Sodium Sulfate, Anhydrous (7757-82-6)
Not listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Revision date	:	05/03/2018
Other information	:	None.
NFPA health hazard	:	0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	:	0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	:	0 - Material that in themselves are normally stable, even under fire conditions.

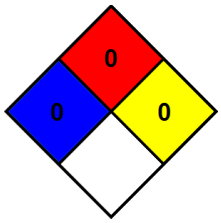

Hazard Rating		
Health	:	1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	:	0 Minimal Hazard - Materials that will not burn
Physical	:	0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	:	A A - Safety glasses

SDS US LabChem

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/07/2021 Reviewed on 05/07/2021

1 Identification

· **Product identifier**

· **Trade name:** **Total Organic Carbon Std. 1000 mg/L (ppm), Certified**

· **Article number:** 9570

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Aqua Solutions, Inc.
6913 Highway 225
DEER PARK, TX 77536
USA
800-256-2586

· **Information department:**
Technical Coordinator
Sherman Nelson shermann@aquasolutions.org
· **Emergency telephone number:**
Chemtrec: 800-424-9300
Canutec: 613-996-6666

2 Hazard(s) identification

· **Classification of the substance or mixture**
The product is not classified, according to the Globally Harmonized System (GHS).

· **Label elements**
· **GHS label elements** Not Applicable
· **Hazard pictograms** Not Applicable
· **Signal word** Not Applicable
· **Hazard statements** Not Applicable
· **Precautionary statements**
If swallowed: Call a poison center/doctor if you feel unwell.
If on skin: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

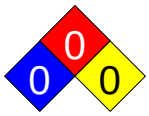

Health = 0
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 1
Fire = 0
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

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Trade name: Total Organic Carbon Std.
1000 mg/L (ppm), Certified

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3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:** Not Applicable

· **Table of Nonhazardous Ingredients**		
CAS: 7732-18-5	Water	99.558%
CAS: 7647-01-0	Hydrochloric Acid	0.23%
CAS: 877-24-7	Potassium Hydrogen Phthalate	0.212%

4 First-aid measures

· **Description of first aid measures**
· **General information:** No special measures required.
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:** Immediately rinse with water.
· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.
· **Environmental precautions:** Dilute with plenty of water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
CAS: 7647-01-0	Hydrochloric Acid	1.8 ppm
CAS: 877-24-7	Potassium Hydrogen Phthalate	9.6 mg/m³

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· **PAC-2:**		
CAS: 7647-01-0	Hydrochloric Acid	22 ppm
CAS: 877-24-7	Potassium Hydrogen Phthalate	110 mg/m³

· **PAC-3:**		
CAS: 7647-01-0	Hydrochloric Acid	100 ppm
CAS: 877-24-7	Potassium Hydrogen Phthalate	630 mg/m³

7 Handling and storage

· **Handling:**
· **Precautions for safe handling** No special measures required.
· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** None.
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
· **Breathing equipment:** Not required.
· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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Trade name: Total Organic Carbon Std.
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· **Eye protection:** Goggles recommended during refilling.
· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Liquid
Color:	Clear
· **Odor:**	Odorless
· **Odor threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
Melting point/Melting range:	0 °C (32 °F)
Boiling point/Boiling range:	100 °C (212 °F)
· **Flash point:**	Not applicable.
· **Flammability (solid, gaseous):**	Not applicable.
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure at 20 °C (68 °F):**	23 hPa (17.3 mm Hg)
· **Density at 20 °C (68 °F):**	1.00113 g/cm³ (8.35443 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Fully miscible.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
Water:	99.6 %
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	0.2 %
· **Other information**	No further relevant information available.

US

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10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:** Not hazardous for water.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

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Trade name: Total Organic Carbon Std.
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13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:** Smaller quantities can be disposed of with household waste.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**	
· **DOT, ADN, IMDG, IATA**	Not regulated
· **UN proper shipping name**	
· **DOT, ADN, IATA**	Not regulated
· **IMDG**	Not Regulated
	Not regulated
· **Transport hazard class(es)**	
· **DOT, ADN, IMDG, IATA**	
· **Class**	Not regulated
· **Packing group**	
· **DOT, IMDG, IATA**	Not regulated
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **DOT**	
· **Remarks:**	Not regulated
· **IMDG**	
· **Remarks:**	Not regulated
· **IATA**	
· **Remarks:**	Not regulated
· **UN "Model Regulation":**	Not regulated

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredients is listed.

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· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

Water	ACTIVE
Hydrochloric Acid	ACTIVE
Potassium Hydrogen Phthalate	ACTIVE

· **Hazardous Air Pollutants**

CAS: 7647-01-0	Hydrochloric Acid

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements** Not Applicable
· **Hazard pictograms** Not Applicable
· **Signal word** Not Applicable
· **Hazard statements** Not Applicable
· **Precautionary statements**
If swallowed: Call a poison center/doctor if you feel unwell.
If on skin: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Environment protection department.
· **Contact:**
· **Date of preparation / last revision**
Revision 0.1, 10-15-19: revised matrix from IPA/Meoh to Methanol STN
Revision 1.0 05-07-2021: updated hazard information. STN
05/07/2021 / -

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Trade name: Total Organic Carbon Std.
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· **Abbreviations and acronyms:**
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

SAFETY DATA SHEET

Version 4.6
Revision Date 03/02/2015
Print Date 02/18/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Trichloroethylene
Product Number	:	251402
Brand	:	Sigma-Aldrich
Index-No.	:	602-027-00-9
CAS-No.	:	79-01-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Germ cell mutagenicity (Category 2), H341
Carcinogenicity (Category 1B), H350
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear eye protection/ face protection.
P280	Wear protective gloves.
P281	Use personal protective equipment as required.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	TCE Trichloroethene
Formula	:	C_2HCl_3
Molecular weight	:	131.39 g/mol
CAS-No.	:	79-01-6
EC-No.	:	201-167-4
Index-No.	:	602-027-00-9

Hazardous components

Component	Classification	Concentration
Trichloroethylene Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)		
	Skin Irrit. 2; Eye Irrit. 2A; Muta. 2; Carc. 1B; STOT SE 3; Aquatic Acute 3; Aquatic Chronic 3; H315, H319, H336, H341, H350, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Light sensitive. Handle and store under inert gas.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Trichloroethylene	79-01-6	TWA	10.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment cognitive decrement Renal toxicity Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Suspected human carcinogen		
		STEL	25.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment cognitive decrement Renal toxicity Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Suspected human carcinogen		
		Potential Occupational Carcinogen See Appendix C See Appendix A		
		See Table Z-2		
		TWA	100.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.19-1967		
		CEIL	200.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.19-1967		
		Peak	300.000000 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z37.19-1967		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Trichloroethylene	79-01-6	Trichloroacetic acid	15.0000 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			
		Trichloroethanol	0.5000 mg/l	In blood	ACGIH - Biological Exposure Indices (BEI)
		End of shift at end of workweek			
		Trichloroethylene		In blood	ACGIH - Biological Exposure Indices (BEI)
		End of shift at end of workweek			
		Trichloroethylene		In end-exhaled air	ACGIH - Biological Exposure Indices (BEI)
		End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact
Material: Fluorinated rubber
Minimum layer thickness: 0.7 mm
Break through time: 480 min
Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -84.8 °C (-120.6 °F) - lit.
f)	Initial boiling point and boiling range	86.7 °C (188.1 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower	Upper explosion limit: 10.5 %(V)

	flammability or explosive limits	Lower explosion limit: 8 %(V)
k)	Vapour pressure	81.3 hPa (61.0 mmHg) at 20.0 °C (68.0 °F)
l)	Vapour density	No data available
m)	Relative density	1.463 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 2.29log Pow: 5
p)	Auto-ignition temperature	410.0 °C (770.0 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Oxidizing agents, Strong bases, Magnesium

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 4,920 mg/kg

LC50 Inhalation - Mouse - 4 h - 8450 ppm

LD50 Dermal - Rabbit - > 20,000 mg/kg

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Severe skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Eye irritation - 24 h

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
Laboratory experiments have shown mutagenic effects.
In vitro tests showed mutagenic effects

Carcinogenicity

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen

IARC:	1 - Group 1: Carcinogenic to humans (Trichloroethylene)
NTP:	Reasonably anticipated to be a human carcinogen (Trichloroethylene)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: KX4550000

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Exposure to and/or consumption of alcohol may increase toxic effects., Gastrointestinal disturbance, Kidney injury may occur., narcosis
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 41 mg/l - 96.0 h
	LOEC - other fish - 11 mg/l - 10.0 d
	NOEC - Oryzias latipes - 40 mg/l - 10.0 d
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 18.00 mg/l - 48 h
Toxicity to algae	IC50 - Pseudokirchneriella subcapitata (green algae) - 175.00 mg/l - 96 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
Does not bioaccumulate.

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1710 Class: 6.1 Packing group: III
Proper shipping name: Trichloroethylene
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1710 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: TRICHLOROETHYLENE

IATA
UN number: 1710 Class: 6.1 Packing group: III
Proper shipping name: Trichloroethylene

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Trichloroethylene	79-01-6	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Trichloroethylene	79-01-6	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Trichloroethylene	79-01-6	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Trichloroethylene	79-01-6	2007-07-01

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Trichloroethylene	79-01-6	2011-09-01
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.	79-01-6	2011-09-01

Trichloroethylene

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H402	Harmful to aquatic life.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.6 Revision Date: 03/02/2015 Print Date: 02/18/2016

SAFETY DATA SHEET

Version 5.8
Revision Date 03/13/2015
Print Date 01/29/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Vanadium(V) oxide
Product Number	:	204854
Brand	:	Aldrich
Index-No.	:	023-001-00-8
CAS-No.	:	1314-62-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 4), H332
Serious eye damage (Category 1), H318
Germ cell mutagenicity (Category 2), H341
Reproductive toxicity (Category 2), H361
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Specific target organ toxicity - repeated exposure (Category 1), H372
Acute aquatic toxicity (Category 2), H401
Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H302 + H332	Harmful if swallowed or if inhaled
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.

H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	O_5V_2
Molecular weight	:	181.88 g/mol
CAS-No.	:	1314-62-1
EC-No.	:	215-239-8
Index-No.	:	023-001-00-8

Hazardous components

Component	Classification	Concentration
Vanadium pentoxide		
	Acute Tox. 4; Eye Dam. 1; Muta. 2; Repr. 2; STOT SE 3; STOT RE 1; Aquatic Acute 2; Aquatic Chronic 2; H302 + H332, H318, H335, H341, H361, H372, H411	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Vanadium/vanadium oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Vanadium pentoxide	1314-62-1	C	0.100000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		C	0.500000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	Remarks	Ceiling limit is to be determined from breathing-zone air samples.		
		TWA	0.050000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Lower Respiratory Tract irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans		
		TWA	0.05 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Lower Respiratory Tract irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans		
		C	0.050000 mg/m3	USA. NIOSH Recommended Exposure Limits
		15 minute ceiling value		
		C	0.050000 mg/m3	USA. NIOSH Recommended Exposure Limits
		15 minute ceiling value		
		C	0.100000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		
		C	0.500000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		
		C	0.050000 mg/m3	USA. NIOSH Recommended Exposure Limits
		15 minute ceiling value		
		C	0.050000 mg/m3	USA. NIOSH Recommended Exposure Limits
		15 minute ceiling value		
		C	0.050000 mg/m3	USA. NIOSH Recommended Exposure Limits
		15 minute ceiling value		
		C	0.050000 mg/m3	USA. NIOSH Recommended Exposure Limits
		15 minute ceiling value		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Vanadium pentoxide	1314-62-1	Vanadium	0.0500 mg/g	In urine	
	Remarks	End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 690 °C (1,274 °F) - lit.
f)	Initial boiling point and boiling range	No data available
g)	Flash point	Not applicable

h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	3.35 g/mL at 25 °C (77 °F)
n)	Water solubility	904 g/l at 20 °C (68 °F) - OECD Test Guideline 105
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	The substance or mixture is not classified as oxidizing.

9.2 Other safety information

Solubility in other solvents	Ethanol - insoluble

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong acids

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
Harmful if swallowed. Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

LC50 Inhalation - Rat - female - 4 h - 2.21 mg/l
(OECD Test Guideline 403)

LC50 Dermal - Rat - > 2,500 mg/kg
(OECD Test Guideline 402)

No data available

Skin corrosion/irritation
Skin - in vitro assay
Result: No skin irritation

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Risk of serious damage to eyes.
(OECD Test Guideline 405)

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
Laboratory experiments have shown mutagenic effects.
In vitro tests showed mutagenic effects

Carcinogenicity

No data available

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Vanadium pentoxide)
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
Possible risk of congenital malformation in the fetus.
Suspected human reproductive toxicant

No data available

Specific target organ toxicity - single exposure
May cause respiratory irritation.
Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Specific target organ toxicity - repeated exposure
Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 5.2 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - 1.52 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
Toxic to aquatic life with long lasting effects.
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2862 Class: 6.1 Packing group: III
Proper shipping name: Vanadium pentoxide
Reportable Quantity (RQ): 1000 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 2862 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: VANADIUM PENTOXIDE
Marine pollutant:yes
IATA
UN number: 2862 Class: 6.1 Packing group: III
Proper shipping name: Vanadium pentoxide

15. REGULATORY INFORMATION

SARA 302 Components
The following components are subject to reporting levels established by SARA Title III, Section 302:

	CAS-No.	Revision Date
Vanadium pentoxide	1314-62-1	2007-07-01

SARA 313 Components

	CAS-No.	Revision Date
Vanadium pentoxide	1314-62-1	2007-07-01

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Vanadium pentoxide	1314-62-1	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Vanadium pentoxide	1314-62-1	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Vanadium pentoxide	1314-62-1	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Vanadium pentoxide	1314-62-1	2007-07-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
Vanadium pentoxide	1314-62-1	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
H302	Harmful if swallowed.
H302 + H332	Harmful if swallowed or if inhaled
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H401	Toxic to aquatic life.

HMIS Rating

Health hazard:	4
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	3
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.8 Revision Date: 03/13/2015 Print Date: 01/29/2016

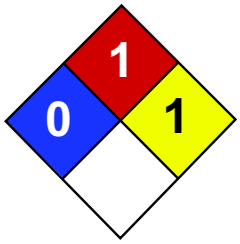

Health	1
Fire	1
Reactivity	1
Personal Protection	E

Material Safety Data Sheet
Zinc Metal MSDS

Section 1: Chemical Product and Company Identification

Product Name: Zinc Metal

Catalog Codes: SLZ1054, SLZ1159, SLZ1267, SLZ1099, SLZ1204

CAS#: 7440-66-6

RTECS: ZG8600000

TSCA: TSCA 8(b) inventory: Zinc Metal

CI#: Not applicable.

Synonym: Zinc Metal Sheets; Zinc Metal Shot; Zinc Metal Strips

Chemical Name: Zinc Metal

Chemical Formula: Zn

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Zinc Metal	7440-66-6	100

Toxicological Data on Ingredients: Zinc Metal LD50: Not available. LC50: Not available.

Section 3: Hazards Identification

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 480°C (896°F)

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances:
Slightly flammable to flammable in presence of open flames and sparks, of heat, of oxidizing materials, of acids, of alkalis, of moisture. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
Flammable solid. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

Special Remarks on Fire Hazards:
Zinc + NaOH causes ignition. Oxidation of zinc by potassium proceeds with incandescence. Residues from zinc dust /acetic acid reduction operations may ignite after long delay if discarded into waste bins with paper. Incandescent reaction when Zinc and Arsenic or Tellurium, or Selenium are combined. When hydrazine mononitrate is heated in contact with zinc, a flamming decomposition occurs at temperatures a little above its melting point. Contact with acids and alkali hydroxides (sodium hydroxide, postasium hydroxide, calcium hydroxide, etc.) results in evolution of hydrogen with sufficient heat of reaction to ignite the hydrogen gas. Zinc foil ignites if traces of moisture are present. It is water reactive and produces flammable gases on contact with water. It may ignite on contact with water or moist air.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:
Flammable solid that, in contact with water, emits flammable gases. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Cover with dry earth, sand or other non-combustible material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust. Keep away from incompatibles such as oxidizing agents, acids, alkalis, moisture.

Storage:
Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep from any possible contact with water. Do not allow water to get into container because of violent reaction.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Lustrous solid. Metal solid.)

Odor: Not available.

Taste: Not available.

Molecular Weight: 65.39 g/mole

Color: Bluish-grey

pH (1% soln/water): Not applicable.

Boiling Point: 907°C (1664.6°F)

Melting Point: 419°C (786.2°F)

Critical Temperature: Not available.

Specific Gravity: Not available.

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Insoluble in cold water, hot water, methanol, diethyl ether, n-octanol, acetone.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, incompatible materials, moisture

Incompatibility with various substances:
Reactive with oxidizing agents, acids, alkalis. Slightly reactive to reactive with moisture. The product may react violently with water to emit flammable but non toxic gases.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:
Incompatible with acids, halogenated hydrocarbons, NH_4NO_3, barium oxide, $Ba(NO_3)_2$, Cadmium, CS_2, chlorates, Cl_2, CrO_3, F_2, Hydroxylamine, $Pb(N_3)_2$, $MnCl_2$, HNO_3, performic acid, $KClO_3$, KNO_3, N_2O_2, Selenium, $NaClO_3$, Na_2O_2, Sulfur, Te, water, $(NH_4)_2S$, As_2O_3, CS_2, $CaCl_2$, chlorinated rubber, catalytic metals, halocarbons, o-nitroanisole, nitrobenzene, nonmetals, oxidants, paint primer base, pentacarbonoyliron, transition metal halides, seleninyl bromide, HCl, H_2SO_4, (Mg +$Ba(NO_3)_2$ +BaO_2), (ethyl acetoacetate +tribromoneopentyl alcohol. Contact with Alkali Hydroxides(Sodium Hydroxide, Potassium Hydroxide, Calcium Hydroxide, etc) results in evolution of hydrogen. Ammonium nitrate + zinc + water causes a violent reaction with evolution of steam and zinc oxide. May react with water.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals:
LD50: Not available. LC50: Not available.

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects: Skin: May cause skin irritation. Dermal exposure to zinc may produce leg pains, fatigue, anorexia and weight loss. Eyes: May cause eye irritation. Ingestion: May be harmul if swallowed. May cause digestive tract irritation with tightness in throat, nausea, vomiting, diarrhea, loss of appetite, malaise, abdominal pain. fever, and chills.
May affect behavior/central nervous system and autonomic nervous system with ataxia, lethargy, staggering gait, mild derrangement in cerebellar function, lightheadness, dizzness, irritability, muscular stiffness, and pain. May also affect blood.
Inhalation: Inhalation of zinc dust or fumes may cause respiratory tract and mucous membrane irritation with cough and chest pain. It can also cause "metal fume fever", a flu-like condition characterized appearance of chills, headached fever, maliase, fatigue, sweating, extreme thirst, aches in the legs and chest, and difficulty in breathing. A sweet taste may also be be present in metal fume fever, as well as a dry throat, aches, nausea, and vomiting, and pale grey cyanosis. The toxicological properties of this substance have not been fully investisgated.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations:
New York release reporting list: Zinc Metal Rhode Island RTK hazardous substances: Zinc Metal Pennsylvania RTK: Zinc Metal Florida: Zinc Metal Michigan critical material: Zinc Metal Massachusetts RTK: Zinc Metal New Jersey: Zinc Metal California Director's List of Hazardous Substances: Zinc Metal TSCA 8(b) inventory: Zinc Metal TSCA 12(b) one time export: Zinc Metal SARA 313 toxic chemical notification and release reporting: Zinc Metal CERCLA: Hazardous substances.: Zinc Metal: 1000 lbs. (453.6 kg)

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not Available

DSCL (EEC):
R15- Contact with water liberates extremely flammable gases. R17- Spontaneously flammable in air. S7/8- Keep container tightly closed and dry.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 1

Reactivity: 1

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 0

Flammability: 1

Reactivity: 1

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/10/2005 12:18 AM

Last Updated: 11/06/2008 12:00 PM

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SAFETY DATA SHEET

Version 6.3
Revision Date 04/15/2022
Print Date 06/23/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Nitrate nitrogen standard solution

Product Number : 21-1584
Brand : Katayama

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765
Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Synonyms : Potassium nitratesolution

Molecular weight : 101.1 g/mol

No components need to be disclosed according to the applicable regulations.

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SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact
Wash off with soap and plenty of water.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Nature of decomposition products not known.

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid breathing vapors, mist or gas.
For personal protection see section 8.

6.2 Environmental precautions
No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Keep container tightly closed in a dry and well-ventilated place.

Storage class
Storage class (TRGS 510): 12: Non Combustible Liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
General industrial hygiene practice.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
No special environmental precautions required.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Color: colorless
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	()No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Density	1.000 g/cm3
	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	Not classified as explosive.
t)	Oxidizing properties	none

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

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10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Powdered metals, Strong acids, Organic materials, Strong reducing agents

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture

Acute toxicity
Oral: No data available
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

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11.2 Additional Information

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer.

SECTION 12: Ecological information

12.1 Toxicity

Mixture
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties
No data available

12.7 Other adverse effects
No data available

Components

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada

Further information
Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Chronic Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

SECTION 16: Other information

Further information
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Version: 6.3 Revision Date: 04/15/2022 Print Date: 06/23/2024

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ATTACHMENT F

JOBSITE SAFETY INSPECTION CHECKLIST

Jobsite Safety Inspection Checklist

Date: _____ **Inspected By:** _____

Location: _____ **Project #:** _____

Check one of the following: **A:** Acceptable **NA**: Not Applicable **D**: Deficiency

	A	NA	D	Remark
1. HASP available onsite for inspection?				
2. Health & Safety Compliance agreement (in HASP) appropriately signed by Langan employees and contractors?				
3. Hospital route map with directions posted on site?				
4. Emergency Notification List posted on site?				
5. First Aid kit available and properly stocked?				
6. Personnel trained in CPR/First Aid on site?				
7. MSDSs readily available, and all workers knowledgeable about the specific chemicals and compounds to which they may be exposed?				
8 Appropriate PPE being worn by Langan employees and contractors?				
9. Project site safe practices ("Standing Orders") posted?				
10. Project staff have 40-hr./8-hr./Supervisor HAZWOPER training?				
11. Project staff medically cleared to work in hazardous waste sites and fit-tested to wear respirators, if needed?				
12. Respiratory protection readily available?				
13. Health & Safety Incident Report forms available?				
14. Air monitoring instruments calibrated daily, and results recorded on the Daily Instrument Calibration check sheet?				
15. Air monitoring readings recorded on the air monitoring data sheet/field logbook?				
16. Subcontract workers have received 40-hr./8-hr./Spvsr. HAZWOPER training, as appropriate?				
17. Subcontract workers medically cleared to work on site, and fit-tested for respirator wear?				
18. Subcontract workers have respirators readily available?				
19. Mark outs of underground utilities done prior to initiating any subsurface activities?				
20. Decontamination procedures being followed as outlined in HASP?				
21. Are tools in good condition and properly used?				
22. Drilling performed in areas free from underground objects including utilities?				

23. Adequate size/type fire extinguisher supplied?				
24. Equipment at least 20 feet from overhead powerlines?				
25. Evidence that drilling operator is responsible for the safety of his rig.				
26. Trench sides shored, layer back, or boxed?				
27. Underground utilities located, and authorities contacted before digging?				
28. Ladders in trench (25-foot spacing)?				
29. Excavated material placed more than 2 feet away from excavation edge?				
30. Public protected from exposure to open excavation?				
31. People entering the excavation regarding it as a permit-required confined space and following appropriate procedures?				
32. Confined space entry permit is completed and posted?				
33. All persons knowledgeable about the conditions and characteristics of the confined space?				
34. All persons engaged in confined space operations have been trained in safe entry and rescue (non-entry)?				
35. Full body harnesses, lifelines, and hoisting apparatus available for rescue needs?				
36. Attendant and/or supervisor certified in basic first aid and CPR?				
37. Confined space atmosphere checked before entry and continuously while the work is going on?				
38. Results of confined space atmosphere testing recorded?				
39. Evidence of coordination with off-site rescue services to perform entry rescue, if needed?				
40. Are extension cords rated for this work being used and are they properly maintained?				
41. Are GFCIs provided and being used?				

Unsafe Acts: _____

_____

_____

_____

Notes: _____

_____

_____

_____

ATTACHMENT G

JOB SAFETY ANALYSIS FORM

LANGAN	Job Safety Analysis (JSA) Construction Health and Safety
JSA TITLE: **JSA NUMBER:**	**DATE CREATED:** **CREATED BY**: **REVISION DATE:** **REVISED BY:**

Langan employees must review and revise the Job Safety Analysis (JSA) as needed to address the any site-specific hazards not identified. Employees must provide their signatures on the last page of the JSA indicating they have review the JSA and are aware the potential hazards associated with this work and will follow the provided preventive or corrective measures.

PERSONAL PROTECTIVE EQUIPMENT REQUIRED: (PPE): ■ Required ☒ As Needed		
☐ Steel-toed boots	☐ Nitrile gloves	☐ Dermal Protection (Specify)
☐ Long-sleeved shirt	☐ Leather/ Cut-resistant gloves	☐ High visibility vest/clothing
☐ Safety glasses	☐ Face Shield	☐ Hard hat
ADDITIONAL PERSONAL PROTECTIVE EQUIPMENT NEEDED (Provide specific type(s) or descriptions)		
☐ Air Monitoring:	☐ Respirators:	☐ Other:
☐ Dermal Protection:	☐ Cartridges:	☐ Other:

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE OR CORRECTIVE ACTION
1.	1. 2.	1a. 1b. 2a. 2b.
2.	1.	1
Additional items identified in the field.		
Additional Items.		

If additional items are identified during daily work activities, please notify all relevant personnel about the change and document on this JSA.

LANGAN	Job Safety Analysis (JSA) Construction Health and Safety
JSA Title: COVID-19 Awareness – Site Work **JSA Number: JSA046-00**	
A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.	

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Boots	☐ Long Sleeves	☐ Safety Vest (Class 2)	☐ Hard Hat	☐ Hearing Protection
☐ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☐ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Alcohol-based hand sanitizer, disinfectant wipes/spray				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
1. All Activities	1. Transmittal/exposure of COVID-19	1. Ask yourself and your managers – is this work essential? Can this be done remotely? 2. Stay home if sick or showing symptoms of COVID-19 (e.g., fever, cough, etc.). 3. Carry nitrile gloves, alcohol-based hand sanitizer, face coverings and disinfectant wipes/spray during field work. 4. Check federal, state, and/or local travel restrictions **prior** to travel. Many states, counties, and cities are passing strict "shelter-in-place" or business restrictions in response to COVID-19. 5. Immediately notify Beverly Williams or Rory Johnston (Supervisor if employee chooses) if you display symptoms of COVID-19. Symptoms include fever (over 100.4 F), cough, and shortness of breath. 6. Notify Beverly Williams or Rory Johnston, Supervisor and Coronavirus Task Force if you had close contact with an individual who tested positive or displayed symptoms of COVID-19. 7. Do not touch your face, to the extent possible. 8. Wear face coverings when around other worker to minimize spread of COVID-19. (May be required in certain states or locations.)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		9. Practice social distancing, maintaining at least 6 feet of distance between yourself and others. Avoid gatherings of more than 10 people. Limit, to the extent possible, contact with public items/objects. 10. Clean your hands frequently with soap and water for at least 20 seconds especially after you have been in a public place, or after blowing your nose, coughing, sneezing, or using the rest room. 11. If soap and water are not readily available, use a hand sanitizer that contains at least 60% alcohol. Cover all surfaces of your hands and rub them together until they feel dry. 12. Cover your mouth and nose with a tissue when you cough or sneeze or use the inside of your elbow. 13. Clean and disinfect frequently touched surfaces daily, for example, cell phones, computer equipment, headsets, tables, doorknobs, light switches, countertops, handles, desks, toilets, faucets, and sinks.
2. Travel to Jobsite	1. Transmittal/exposure of COVID-19 between passengers 2. Transmittal/exposure of COVID-19 from previous occupants (rental and fleet vehicles) 3. Transmittal/exposure of COVID-19 while refueling	1. Limit the number of occupants to each vehicle to 2 people. Employees should sit as far away from each other as possible. 2. Disinfect high “hand-traffic” areas of the vehicle: Door handles, steering wheel, turn signal and control rods, dashboard controls, seatbelts, armrests, etc. To the extent possible, do not use recycled air for heat/AC and travel with the windows open. 3. Use hand sanitizer before and after pumping gas and only return to the inside of the vehicle after refueling is complete. 4. Wear nitrile gloves if available or disinfect the keypad, pump handle, and fuel grade button prior to use. 5. Recommend face coverings are worn to minimize spread of COVID-19.
3. Conduct Tailgate Safety Meeting & Complete H&S Paperwork	1. Transmittal/exposure of COVID-19 between meeting participants	1. Practice social distancing, maintaining at least 6 feet of distance between yourself and others. 2. Recommend face coverings are worn when around other workers to minimize spread of COVID-19, 3. Hold meetings outside and keep in mind wind direction. To the extent possible, remain crosswind from other people. 4. Designate a single person to maintain sign-in sheets/permits throughout the day to limit the passing of pens/clipboards between people. 5. Each person should complete their own JSA, even if they are completing similar tasks as others in order to limit the passing of paper/pens/clipboards between people. 6. Include COVID-19 topics and prevention measures in safety meetings.
4. Conduct Site Work	1. Transmittal/exposure of COVID-19 between site workers and public.	1. Practice social distancing maintaining 6 feet of distance between yourself and others. 2. Recommend face coverings are worn when around other workers to minimize spread of COVID-19, 3. To the extent possible, do not interact with the public. If it is necessary, politely explain you are practicing social distance and request they stay at least 6 feet away and they do not attempt to pass objects to you. 4. Wear nitrile gloves during site work underneath the appropriate gloves for your task. Utilize appropriate decontamination procedures, securely bag all waste (including nitrile gloves) generated during site work and dispose of.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		5. Do not share tools. Each person should be equipped with the tools to complete their task or tasks should be divided to remove the need to share tools. If tools must be shared, surfaces should be disinfected. 6. Clean and disinfect surfaces of rental tools and equipment upon receipt. To the extent possible rent equipment from Langan's internal equipment reservation center, where cleaning/disinfecting procedures can be verified.
5. Use of Construction Trailers	1. Transmittal/exposure of COVID-19 between site workers and others.	1. Avoid use of shared trailers, if possible. Minimize trailer use to essential personnel. 2. Practice social distancing; maintaining 6 feet of distance between yourself and others in trailer. 3. Clean and disinfect areas including desks, phones, chairs, and other common areas, before and after use.
6. Purchasing Food from a Restaurant	1. Transmittal/exposure of COVID-19 from other customers, staff, surfaces.	1. To the extent possible, bring your own food. 2. If you must visit a restaurant, call ahead for take-out or "contactless delivery." Do not dine in. When picking up food, follow guidelines for Job Step #8: Purchasing Supplies at Retail/Shipping Centers. 3. Wash hands before and after eating.
7. Smoking Cigarettes	1. Transmittal/exposure of COVID-19 by touching mouth with hands	1. Cigarette smokers are at greater risk of complications arising from COVID-19. Nicotine patches/lozenges/gum, smoking cessation programs, and prescription medications may aid in "kicking the habit" if you decide to quit. 2. Wash hands thoroughly before and after smoking. 3. Discard cigarette butts properly. Do not light cigarettes from others and do not give cigarettes to others.
8. Hotel Stay	1. Transmittal/exposure of COVID-19 from previous occupants, hotel staff, common areas.	1. Verify the hotel chain/brand has modified cleaning procedures to reflect risk of COVID-19. Most hotel companies have issued statements on their websites and in email blasts reflecting these new procedures. 2. Use the front door, and not peripheral entrances. Front doors of hotels are usually automatic. 3. Request ground floor room to avoid elevator use and a room that has not be utilized in 48-72 hours. 4. If elevator use is required, do not directly touch elevator buttons with your hands. Do not ride elevators with other people, to the extent possible. 5. Bring disinfecting wipes or sanitizing spray. Upon arrival, disinfect high "hand-traffic" areas of the hotel room: Door handles, light switches, shower/sink faucet handles, TV remote, curtain/blind handles. Clean these surfaces daily. 6. Place the "Do Not Disturb" Sign on your door to prevent people (housekeeping) from entering your room. 7. Avoid common spaces and hotel sponsored events where crowds will be present. 8. Confirm hotel cleaning procedures have been modified to address COVID-19. Confirm no COVID-19 cases have occurred in hotel
9. Purchasing Supplies at Retail/Shipping Centers	1. Transmittal/exposure of COVID-19 from other customers, staff, surfaces.	1. Plan your travel to limit the need to visit retail/shipping centers. 2. Practice social distancing, maintaining at least 6 feet of distance between yourself and others. If the store is too crowded/small, consider visiting another store or returning at a different time. 3. Avoid high "hand-traffic" items/areas like door handles (i.e. use your shoulder, hip/butt, or open with a disposable napkin/paper towel), credit cards terminals (i.e. use Apple/Android pay if available), shopping carts/baskets (i.e. bring your own shopping

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		bags), counter tops (i.e. ask clerk if you can hold the items while they are scanned) and bulk/buffet items (i.e. just avoid them). 4. Disinfect your hands before and after visiting a retail/shipping center.

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Construction Health and Safety

JSA Title: **Environmental Sampling**
JSA Number: **JSA021-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☐ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☒ Fire Resistant Clothing	☐ Rubber Boots
☒ Insect/Animal Repellent	☒ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Tyvek Sleeves				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
1. Drive to sample location	1. Rough/Off Road terrain	1. Pay attention to road conditions such as road erosion, unprotected embankments, and soft road conditions.
2. Sample Collection (Walking)	1. Slip/Trips/Falls 2. Back strains 3. Wildlife (Insects, Stray animals, rodents) 4. Poisonous vegetation	1. Minimize distance to sample area/ Plan route and check surface prior to carrying heavy equipment/ Locate safest access point/ Follow good housekeeping procedures/ Mark significant below grade hazards (holes, trenches) with spray paint or cones/ Wear foot protection with ankle support and gripping soles. 2. Use proper lifting techniques/ Use wheeled transport/ Obtain assistance where and when needed/ Consider load weight when evaluating what is safe and unsafe to carry. 3. Be aware of surroundings for the presence of wildlife. Do not approach stray animals. Carry and use animal repellant when needed/ Use bug spray when needed. 4. Keep skin covered/ Identify and avoid poisonous vegetation/ Clean areas after contact with suspected vegetation.
3. Sample Collection (Water)	1. Drowning Hazards 2. Chemical burns (when adding acid preservative to sample) 3. Back Strains 4. Ergonomic issues 5. Slip/Trips/Falls	1. Use buddy system/ Wear flotation vest if water is deeper than 2 feet or swift moving/ Select working area with stable footing. Do not attempt to cross or stand in swift moving water. 2. Wear proper PPE (Nitrile gloves, Tyvek Sleeves) 3. Use proper lifting techniques/ Use wheeled transport/ Obtain assistance where and when needed/ Consider load weight when evaluating what is safe or unsafe to carry. 4. When possible, avoid bending over for long periods of time/ Use a small stool for sitting or knee pad for kneeling.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		5. Minimize distance to sample area/ Plan route and check surface prior to carrying heavy equipment/ Locate safest access point/ Follow good housekeeping procedures/ Mark significant below grade hazards (holes, trenches) with spray paint or cones/ Wear foot protection with ankle support and gripping soles/ Avoid standing water or slippery terrain.
4. All activities	1. Slips/ Trips/ Falls 2. Hand injuries, cuts, or lacerations during manual handling of materials 3. Foot injuries 4. Back injuries 5. Traffic 6. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 7. High Noise levels 8. Overhead hazards 9. Heat Stress/ Cold Stress 10. Eye Injuries	1. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves 3. Wear Langan approved safety shoes 4. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 5. Wear high visibility clothing & vest / Use cones or signs to designate work area 6. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 7. Wear hearing protection 8. Wear hard hat / Avoid areas where overhead hazards exist. 9. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 10. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Construction Health and Safety

JSA Title: **Subsurface Investigation**
JSA Number: **JSA030-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Dielectric Overshoes, Sun Block				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
5. Transport equipment to work area	2. Back/strain 3. Slip/Trip/Falls 4. Traffic 5. Cuts/abrasions/contusions from equipment 6. Accidents due to vehicle operations	1. Use proper lifting techniques/Use wheeled transport 2. Minimize distance to work area/unobstructed path to work area/follow good housekeeping procedures 3. Wear proper PPE (high visibility vest or clothing) 4. Wear proper PPE (leather gloves, long sleeves, Langan approved safety shoes) 5. Observe posted speed limits/ Wear seat belts at all times
6. Traffic	1. Hit by moving vehicle	1. Use traffic cones and signage/ Use High visibility traffic vests and clothing/ Caution tape when working near active roadways.
7. Field Work (drilling, resistivity testing, and inspection)	1. Biological Hazards: insects, rats, snakes, poisonous plants, and other animals 2. Heat stress/injuries 3. Cold Stress/injuries 4. High Energy Transmission Lines 5. Underground Utilities 6. Electrical (soil resistivity testing)	1. Inspect work area to identify biological hazards. Wear light colored long sleeve shirt and long pants/ Use insect repellant as necessary/ Beware of tall grass, bushes, woods, and other areas where ticks may live/ Avoid leaving garbage on site to prevent attracting animals/ Identify and avoid contact with poisonous plants/Beware of rats, snakes, or stray animals. 2. Wear proper clothing (light colored)/ drink plenty of water/ take regular breaks/use sun block. 3. Wear proper clothing/ dress in layers/ take regular breaks. 4. Avoid direct contact with high energy transmission lines/ position equipment at least 15 feet or as required by PSE&G from the transmission lines/ wear proper PPE (dielectric overshoes 15 kV minimum rating).

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		5. Call one-call service before performing intrusive field work/ Review utility mark-outs and available utility drawings (with respect to proposed work locations)/ Follow Underground Utility Guidelines 6. See AGI Sting R1 operating manual for specific concerns during operating instrument
8. All activities	1. Slips/ Trips/ Falls 2. Hand injuries, cuts, or lacerations during manual handling of materials 3. Foot injuries 4. Back injuries 5. Traffic 6. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 7. High Noise levels 8. Overhead hazards 9. Heat Stress/ Cold Stress 10. Eye Injuries	7. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 8. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 9. Wear Langan approved safety shoes. 10. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 11. Wear high visibility clothing & vest / Use cones or signs to designate work area. 12. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 13. Wear proper hearing protection. 14. Wear hard hat / Avoid areas where overhead hazards exist. 15. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 16. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Construction Health and Safety

JSA Title: **Field Sampling**
JSA Number: **JSA022-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*

T – ***Think*** *about the task*

E – ***Evaluate*** *potential hazards*

P – ***Plan*** *safe approach*

S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☐ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
9. Unpack/Transport equipment to work area.	7. Back Strains 8. Slip/Trips/Falls 9. Cuts/Abrasions from equipment 10. Contusions from dropped equipment	6. Use proper lifting techniques/Use wheeled transport. 7. Minimize distance to work area/Unobstructed path to work area/follow good housekeeping procedures. Mark slip/trip/fall hazards with orange safety cones. 8. Wear proper PPE (leather gloves, long sleeves). 9. Wear proper PPE (Langan approved safety shoes).
10. Initial Site Arrival-Site Assessment	5. Traffic	5. Situational awareness (be alert of your surroundings). Secure area from through traffic.
11. Surface Water Sampling	6. Contaminated media. Skin/eye contact with biological agents and/or chemicals.	6. Wear appropriate PPE (Safety glasses, appropriate gloves). Review (M)SDS for all chemicals being.
12. Sampling from bridges	1. Struck by vehicles	1. Wear appropriate PPE (Safety Vest). Use buddy system and orange safety cones.
13. Icing of Samples/ Transporting coolers/equipment from work area.	11. Back Strains 12. Slips/Trips/Falls 13. Cuts/Abrasions from equipment 14. Pinch/Crushing Hazards.	17. Drain coolers of water. Use proper lifting techniques. Use wheeled transport. 18. Have unobstructed path from work area. Aware of surroundings. 19. Wear proper PPE (Leather gloves, long sleeves) 20. Wear proper PPE (Leather gloves, long sleeves)
14. Site Departure	1. Contaminated PPE/Vehicle	1. Contaminated PPE should be disposed of on-site. Remove boots and soiled clothing for secure storage in trunk. Wash hands promptly.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
15. All activities	1. Slips/ Trips/ Falls 2. Hand injuries, cuts, or lacerations during manual handling of materials 3. Foot injuries 4. Back injuries 15. Traffic 16. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 17. High Noise levels 18. Overhead hazards 19. Heat Stress/ Cold Stress 20. Eye Injuries	1. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves 3. Wear Langan approved safety shoes 4. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 21. Wear high visibility clothing & vest / Use cones or signs to designate work area. 22. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 23. Wear hearing protection 24. Wear hard hat / Avoid areas where overhead hazards exist. 25. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 26. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Construction Health and Safety

JSA Title: **Equipment Transportation and Set-up**
JSA Number: **JSA012-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
16. Transport equipment to work area	11. Back Strain 12. Slips/ Trips/ Falls 13. Traffic 14. Cuts/abrasions from equipment 15. Contusions from dropped equipment	1. Use proper lifting techniques / Use wheeled transport. 2. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures. 3. Wear proper PPE (high visibility vest or clothing) 4. Wear proper PPE (leather gloves, long sleeves) 5. Wear proper PPE (safety shoes)
17. Moving equipment to its planned location	6. Pinch Hazard 7. Slips/ Trips/ Falls	1. Wear proper PPE (leather gloves) 2. Be aware of potential trip hazards / Practice good housekeeping procedures / Mark significant below-grade hazards (i.e., holes, trenches) with safety cones or spray paint
18. Equipment Set-up	7. Pinch Hazard 8. Cuts/abrasions to knuckles/hands. 9. Back Strain	1. Wear proper PPE (leather gloves) 2. Wear proper PPE (leather gloves) 3. Use proper lifting techniques / Use wheeled transport
19. All activities	21. Slips/ Trips/ Falls 22. Hand injuries, cuts, or lacerations during manual handling of materials 23. Foot injuries 24. Back injuries 25. Traffic 26. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.)	27. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 28. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 29. Wear Langan approved safety shoes.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
4. All activities (cont'd)	27. High Noise levels 28. Overhead hazards 29. Heat Stress/ Cold Stress 30. Eye Injuries	30. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 31. Wear high visibility clothing & vest / Use cones or signs to designate work area. 32. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 33. Wear hearing protection 34. Wear hard hat / Avoid areas where overhead hazards exist. 35. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 36. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Construction Health and Safety

JSA Title: **55-gallon Drum Sampling**
JSA Number: **JSA043-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☒ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: All Drums are required to be labeled. Langan employees do not open or move undocumented drums or unlabeled drums without proper project manager authorization.				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
20.Unpack/Transport equipment to work area.	16.Back Strains 17.Slip/Trips/Falls 18.Cuts/Abrasions from equipment 4. Contusions from dropped equipment	10. Use proper lifting techniques/Use wheeled transport. 11. Minimize distance to work area/Unobstructed path to work area/follow good housekeeping procedures. Mark slip/trip/fall hazards with orange safety cones. 12. Wear proper PPE (leather gloves, long sleeves). 4. Wear proper PPE (Langan approved safety shoes).
21.Open Drums	1. Hand Injuries, cuts or lacerations when untightening drum locking bolt, removing drum lid strap, or removing lid. 2. Pressure from drums.	1. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. Use non-metallic mallet and non-sparking tools/wrenches. 2. Open drum slowly to relieve pressure. Wear proper PPE: face shield and goggles; correct gloves; and over garments.
22.Collecting Soil/Fluid Sample	8. Irritation to eye from vapor, soil dust, or splashing. 9. Irritation to exposed skin	6. Wear proper eye protection including safety glasses/ face shield/googles and when necessary, splash guard. If dust or vapor phase is present, wear appropriate safety breathing gear (1/2 mask or full face mask with correct filter) 7. Wear proper skin protection including nitrile gloves.
23.Closing Drums	1. Hand Injuries, cuts or lacerations when untightening drum locking bolt, removing drum lid strap, or removing lid.	7. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. Use non-metallic mallet and non-sparking tools/wrenches.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
24.Moving Drums	2. Hand Injuries, cuts or lacerations when untightening drum locking bolt, removing drum lid strap, or removing lid. 3. Back Strains	2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. Use non-metallic mallet and non-sparking tools/wrenches. 3. Use proper lifting techniques/Use wheeled transport.
25. All activities	31. Slips/ Trips/ Falls 32. Hand injuries, cuts, or lacerations during manual handling of materials 33. Foot injuries 34. Back injuries 35. Traffic 36. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 37. High Noise levels 38. Overhead hazards 39. Heat Stress/ Cold Stress 40. Eye Injuries	37. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 38. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 39. Wear Langan approved safety shoes. 40. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 41. Wear high visibility clothing & vest / Use cones or signs to designate work area. 42. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 43. Wear hearing protection 44. Wear hard hat / Avoid areas where overhead hazards exist. 45. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 46. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Construction Health and Safety

JSA Title: **Direct-Push Soil Borings**
JSA Number: **JSA004-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT REQUIRED:				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Half-face respirator, dust cartridges, PID (if applicable)				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
26.Move equipment to work site	19.Back strain when lifting equipment. 20.Slips/ Trips/ Falls while moving equipment. 21.Traffic (if applicable) 22.Pinched fingers or running over toes during GeoProbe set-up. 23.Overturn drilling rig while transporting to loading dock on flat-bed tow truck	13. Use proper lifting technique (use legs for bending and lifting and not the back)/ Use wheeled transport for heavy equipment / Get assistance when handling loads greater than 50 lbs. / Minimize distance to vehicle 14. Use proper lifting technique (use legs for bending and lifting and not the back) / Use wheeled transport for heavy equipment / Get assistance when handling loads greater than 50 lbs. / Minimize distance to vehicle / Have unobstructed path to vehicle or collection point / Do not lift/walk with boxes that are heavy/difficult to lift 15. Wear high visibility safety vests or clothing / Exercise caution 16. Wear proper PPE (cut-resistant gloves) / Stay alert, be aware of geoprobe rig at all times 17. Drill rig should be parked in center of flat-bed tow truck / Emergency brake shall be used at all times during transport on the flat-bed truck/ All unnecessary personnel should stay away from the flat-bed truck during moving activities
27.Calibration of monitoring equipment	10.Skin or eye contact with calibration chemicals 11.Pinch fingers in monitoring equipment	8. Wear proper PPE (safety glasses/ goggles) 9. Wear proper PPE (leather gloves)
28.Set-up GeoProbe rig	10. Geoprobe rig movement	8. All field personnel should stay clear of the GeoProbe rig while moving / Use a spotter when backing up the GeoProbe
29.Advance GeoProbe rods below ground surface to desired depth	4. Underground utilities 5. High noise levels	4. Clean all subsurface soil borings to a minimum of 5 feet below grade. 5. Wear proper PPE (hearing protection)
30. Remove and open acetate liner.	41. Pinched fingers while removing macrocore.	1. Wear proper PPE (nitrile gloves, cut-resistant or leather gloves 2. Wear proper PPE (cut-resistant or leather gloves)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
5. Remove and open acetate liner (cont'd)	42. Cuts/lacerations when cutting acetate liner open. 43. Exposure to hazardous vapors 44. Skin contacts with contaminated soil	3. Do not place face over acetate liner when opening / Monitor hazardous vapors in air with PID / Upgrade PPE as necessary based on levels contained in the Health and Safety Plan 4. Wear proper PPE (nitrile gloves)
31. Sample Collections a) Monitor parameters. b) Prepare sample containers and labels	1. Contact with potentially contaminated soil. 2. Lacerations from broken sample bottles 3. Back strain while transporting full coolers. 4. Internal exposure to contaminants and metals through inhalation of dust 5. Slips/ Trips/ Falls	1. Use monitoring devices / Wear proper PPE (safety glasses, nitrile gloves) 2. Do not over-tighten bottle caps / Handle bottles safely to prevent breakage. 6. Use proper lifting techniques / Do not lift heavy loads without assistance. 7. Avoid creating dust / If necessary, wear a half mask respirator with applicable dust cartridge / Inspect respirator for damage and cleanliness prior to use / Clean respirator after each use and store in a clean, secure location. 8. Be alert / Follow good housekeeping procedures
32. Remove excess soil from acetate liner and place in 55-gallon drum (IF NOT PERFORMED BY LANGAN, REMOVE!)	1. Cuts/lacerations from acetate liner 2. Pinched fingers/hand while opening/closing drum. 3. Skin contacts with contaminated soil 4. Soil debris in eyes	1. Wear proper PPE (cut-resistant or leather gloves) 2. Wear proper PPE (cut-resistant or leather gloves) 3. Wear proper PPE (nitrile gloves) 4. Wear proper PPE (safety glasses)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
8. Transport drums to central staging location (IF NOT PERFORMED BY LANGAN, REMOVE!)	1. Back, arm or shoulder strain from moving drums. 2. Pinch fingers/hand in drum cart when moving drums. 3. Pinch fingers/hand when operating lift-gate on vehicle. 4. Contact with potentially contaminated groundwater when moving improperly sealed drums. 5. Slips when moving drums. 6. Drop drum on feet/toes	47. Use drum cart for moving drums / Use proper lifting techniques / Do not lift heavy loads without assistance. 48. Wear proper PPE (cut-resistant or leather gloves) 49. Wear proper PPE (cut-resistant or leather gloves) 50. Wear proper PPE (nitrile gloves underneath work gloves) 51. Follow good housekeeping procedures / Ensure route to move drum and storage space is free from obstructions. 52. Wear proper PPE (safety shoes) / Work in a safe manner to prevent dropped drum
9. All activities 9. All activities (cont'd)	1. Slips/ Trips/ Falls 2. Hand injuries, cuts, or lacerations during manual handling of materials 3. Foot injuries 4. Back injuries 5. Traffic 6. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 7. High Noise levels 8. Overhead hazards 9. Heat Stress/ Cold Stress 10. Eye Injuries	1. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 3. Wear Langan approved safety shoes. 4. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 5. Wear high visibility clothing & vest / Use cones or signs to designate work area. 6. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 7. Wear hearing protection 8. Wear hard hat / Avoid areas where overhead hazards exist. 9. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 10. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date

Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Construction Health and Safety

JSA Title: **Geophysical Investigation**
JSA Number: **JSA023-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
33. Transport equipment to work area	24. Back/strain 25. Slip/Trip/Falls 26. Traffic 27. Cuts/abrasions/contusions from equipment	18. Use proper lifting techniques/Use wheeled transport 19. Minimize distance to work area/unobstructed path to work area/follow good housekeeping procedures 20. Wear proper PPE (high visibility vest or clothing) 21. Wear proper PPE (leather gloves, long sleeves, Langan approved safety shoes)
34. Supervision of subcontractor and all other activities	12. Slip/Trips/Falls 13. Hand injuries 14. Foot injuries 15. Back injuries/Strains 16. Traffic 17. Wildlife a. Wildlife b. Mice/rats c. Vectors (i.e., mosquitoes, bees, etc.) 7. Heat/Cold Stress	10. Be aware of potential trip hazards/follow good housekeeping procedures/mark significant below-grade hazards (i.e., holes, trenches, wires, ropes) with safety cones or spray paint. 11. Wear proper PPE (leather gloves)/watch wear you place your hands/inspect material or equipment for jagged, rough, or slippery surfaces/ watch for pinch points/ wipe off slippery, wet, or dirty items prior to handling. 12. Wear proper PPE (Langan approved safety shoes)/ Be aware of uneven terrain) 13. Use proper lifting techniques/ Buddy system when lifting/ use wheeled transport. 14. Wear proper PPE (high-visibility shirts and vests)/ use cones if appropriate/ notify equipment operators of work area. 15. Be aware of surroundings at all times for the presence of wildlife. a. Do not approach stray animals. b. Carry animal repellant/ use if situation arises. c. Use bug spray when needed. 7. Wear proper attire for weather conditions (sunscreen, protective clothing in

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		sunlight or layer clothing in cold weather)/ drink plenty of fluids/ take regular breaks.
35. All activities	45. Slips/ Trips/ Falls 46. Hand injuries, cuts, or lacerations during manual handling of materials 47. Foot injuries 48. Back injuries 49. Traffic 50. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 51. High Noise levels 52. Overhead hazards 53. Heat Stress/ Cold Stress 54. Eye Injuries	53. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 54. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 55. Wear Langan approved safety shoes. 56. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 57. Wear high visibility clothing & vest / Use cones or signs to designate work area. 58. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 59. Wear proper hearing protection. 60. Wear hard hat / Avoid areas where overhead hazards exist. 61. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 62. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Excavation Oversight**
JSA Number: **JSA041-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
36. Transport equipment to work area	28. Back Strain 29. Slips/Trips/Falls 30. Traffic 31. Cuts/abrasions/contusions from equipment	22. Use proper lifting techniques / Use wheeled transport 23. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures 24. Wear proper PPE (high visibility vest or clothing) 25. Wear proper PPE (leather gloves, long sleeves, safety shoes)
37.Earth Moving Equipment	18. Equipment running over employee 19.Swing radius of equipment 20.Site constraints 21.Line of Fire incidents 22.Crushing hazards	16. Ensure you have direct line of sight with operator of equipment; 17. Don't walk behind equipment; 18. Maintain a safe distance away from equipment. 19. Use spotters to communicate with equipment operator 20. Competent person onsite 21. Designate/cone-off swing radius of equipment 22. Excavator bucket grounded while collecting samples 23. Shut-down equipment prior to collecting samples 24. Wear proper PPE (high vis vest/clothing)
38.Excavation	11. Excavation collapse 12. Confined space 13. Soil	9. Use proper shoring/benching/sloping techniques; Ladder is properly situated in excavation; no water in excavation; competent person has inspected excavation prior to allow employees to enter. 10. Langan employees are not authorized to enter a confined space; 11. Soil and equipment is kept atleast 2 feet from edge of excavation
39.Excavated soil	1. Hazardous substances	1. Use proper equipment to monitor excavated soil for contaminates; ensure levels do not exceed PEL's for contaminates; Wear proper PPE
40. All activities	55. Slips/ Trips/ Falls	63. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
	56. Hand injuries, cuts or lacerations during manual handling of materials 57. Foot injuries 58. Back injuries 59. Traffic 60. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 61. High Noise levels 62. Overhead hazards 63. Heat Stress/ Cold Stress 64. Eye Injuries	64. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 65. Wear proper PPE (Langan approved safety shoes) 66. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 67. Wear high visibility clothing & vest / Use cones or signs to designate work area 68. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 69. Wear hearing protection 70. Wear hard hat / Avoid areas were overhead hazards exist. 71. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 72. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **General Construction Activities**
JSA Number: **JSA010-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
41.Transport equipment to work area	32.Back Strain 33.Slips/ Trips/ Falls 34.Traffic 35.Cuts/abrasions from equipment 36.Contusions from dropped equipment	6. Use proper lifting techniques / Use wheeled transport 7. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures 8. Wear proper PPE (high visibility vest or clothing) 9. Wear proper PPE (leather gloves, long sleeves) 10. Wear proper PPE (safety shoes)
42.Installation of piping from vapor wells to skid connections and fro mdischarge pipping to effluent stack	23. Pinch fingers when connecting pipes 24.Slips/ Trips/ Falls 25.Machinery Hazards	3. Wear proper PPE (leather gloves) 4. Be aware of potential trip hazards / Practice good housekeeping procedures / Mark significant below-grade hazards (i.e. holes, trenches) with safety cones or spray paint 5. Wear proper PPE (safety vest) / Maintain safe distance from operating machinery
43.Remediation equipment installation	14. Back strain when lifting heavy equipment 15. Slips/ Trips/ Falls 16. Traffic	5. Use proper lifting techniques / Use wheeled transport / Minimize distance to vehicle 6. Be aware of potential trip hazards / Practice good housekeeping procedures / Mark significant below-grade hazards (i.e. holes, trenches) with safety cones or spray pain 7. Wear proper PPE (safety vest)
44. All activities	65. Slips/ Trips/ Falls 66. Hand injuries, cuts or lacerations during manual handling of materials 67. Foot injuries 68. Back injuries	73. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 74. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
4. All activities (cont'd)	69. Traffic 70. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 71. High Noise levels 72. Overhead hazards 73. Heat Stress/ Cold Stress 74. Eye Injuries	75. Wear Langan approved safety shoes 76. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 77. Wear high visibility clothing & vest / Use cones or signs to designate work area 78. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 79. Wear hearing protection 80. Wear hard hat / Avoid areas were overhead hazards exist. 81. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 82. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Ladder Use**
JSA Number: **JSA056**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.

S – ***Stop,*** *what has changed?*

T – ***Think*** *about the task*

E – ***Evaluate*** *potential hazards*

P – ***Plan*** *safe approach*

S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☐ Long Sleeves	☐ Safety Vest (Class 2)	☐ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☐ Leather Gloves	☐ Cut Resist. Gloves	☒ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
45. Use of Ladders and Inspection of Ladders Before Use	1. Ladders (portable, fixed) 2. Rolling or pinching objects 3. Sharp objects	26. Inspect all ladders for structural defects prior to each use. Decals, weight restrictions, non painted surfaces. 27. Use the correct type and size of ladder to safely work. 28. . Do not use metal or wooden ladders
46. Use of Ladder(s)	26. Ladders (portable, fixed) 27.Elevated work platform or stairs 28.Slippery surfaces (water, ice, snow) 29.Rolling or pinching objects 30.Sharp objects 31.Poor Housekeeping 32.Repetitive motion or other ergonomic concerns 33.Airborne dust	25. Maintain three points of contact when ascending and descending ladders. 26. Insure area at bottom of ladder is free of obstructions and tripping hazards. 27. Never carry tools in your hands while ascending or descending a ladder. 28. Utilize rope buckets to pull tools up to you or tool belts. Extension ladders will extend up to 36 inches above the landing that is being accessed and be tied off and secured to prevent them from moving or falling. 29. A spotter must hold the ladder if the employee needs to climb the ladder to tie the ladder off. When using an extension ladder, for every 4' of rise, the base must come out 1' (4 to 1 ratio) 30. If working from a ladder 6 ft. or higher, fall protection is required. Fall protection is not required for climbing ladders less than 20 ft. in height.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		31. Use the proper ladder for the job at all times. 32. The belt buckle may never extend past either rail on the side of the ladder. 33. Do not climb higher than the second tread from the top on a stepladder or the third rung 34. Before ascending or descending a ladder, wait until other workers have completely cleared the ladder. Do not stand directly below a person who is climbing or descending a ladder to avoid falling objects.
47. All activities	75. Slips/ Trips/ Falls 76. Hand injuries, cuts or lacerations during manual handling of materials 77. Foot injuries 78. Back injuries 79. Eye Injuries	83. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 84. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 85. Wear proper PPE (Langan approved safety shoes) 86. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 87. Wear high visibility clothing & vest / Use cones or signs to designate work area 88. Wear hard hat / Avoid areas were overhead hazards exist. 89. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 90. Wear safety glasses

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Mechanical Connection Oversight**
JSA Number: **JSA027-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
48.Transport equipment to work area	37.Back Strain 38.Slips/ Trips/ Falls 39.Traffic 40.Cuts/abrasions from equipment 41.Contusions from dropped equipment	11. Use proper lifting techniques / Use wheeled transport 12. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures 13. Wear proper PPE (high visibility vest or clothing) 14. Wear proper PPE (leather gloves, long sleeves) 15. Wear proper PPE (Langan approved safety shoes)
49. Piping and connections	6. Pinch Hazard 7. Cuts/abrasions to knuckles/hands 8. Back Strain 9. High pressure water spray	1. Wear proper PPE (leather gloves) 2. Wear proper PPE (leather gloves or cut resistant gloves) 3. Use proper lifting techniques / Use wheeled transport 4. Ensure connections are tight and secure/ Wear proper PPE (face shield and safety glasses)
50. All activities	80. Slips/ Trips/ Falls 81. Hand injuries, cuts or lacerations during manual handling of materials 82. Foot injuries 83. Back injuries 84. Traffic 85. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 86. High Noise levels 87. Overhead hazards 88. Heat Stress/ Cold Stress 89. Eye Injuries	91. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 92. Inspect for jagged/sharp edges, rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather and/or cut-resistant gloves 93. Wear Langan approved safety shoes 94. Use proper lifting techniques / Consider load location, task repetition, and load weigh / Obtain assistance when possible 95. Wear high visibility clothing & vest / Use cones or signs to designate work area 96. Be aware of surroundings for presence of wildlife/ Do not approach stray animals / Carry or use animal repellant / Use bug spray when needed

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		97. Wear proper PPE (hearing protection) 98. Wear hard hat / Avoid areas were overhead hazards exist. 99. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 100. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: Soil Sampling from Excavator Bucket
JSA Number: JSA057

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☐ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☐ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
51. Drive to site and/or sample location.	42. Rough/Off-Road terrain; 43. Low-light or other hazardous environmental conditions.	1. Pay attention to road conditions such as road erosion, unprotected embankments, and soft road conditions; 2. Ensure vehicle is properly equipped and outfitted for the terrain and all environmental conditions.
52. Initial Site Arrival Site Assessment.	1. Unsafe driving conditions including personnel walking within driving areas, open excavation or pits, steep slopes etc.; 2. Biological hazards (snakes, poison oak, bees).	1. Maintain situational awareness upon arriving to the work site (be alert of your surroundings). Secure the work area from through traffic.
53. Unpack and transport equipment to work area.	1. Back Strains; 2. Slip/Trips/Falls; 3. Cuts/Abrasions from equipment; 4. Contusions from dropped equipment.	1. Use proper lifting techniques and use wheeled transport; 2. Minimize distance to work area and create unobstructed path to work area. Follow good housekeeping procedures. Mark slip/trip/fall hazards with orange safety cones and/or caution tape; 3. Wear proper PPE (gloves, long sleeves, etc.); 4. Wear proper PPE (Langan-approved safety shoes, hardhat, etc.).
54. Earth Moving Equipment.	1. Equipment striking, crushing, running over employee etc.	1. Place traffic cones and use caution tape to clearly delineate the excavators front and rear swing radius. Do not enter the excavators or other heavy equipment swing radius/travel paths while in operation; 2. Ensure all employees working in the vicinity of the excavator/heavy equipment maintain direct line of sight with the operator at all times; don't walk behind equipment or within the operators blind spots; maintain a safe distance away from the equipment; 3. Designate one employee as the "spotter" to communicate with the excavator operator, and establish a shut-down signal that, when

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		sounded, instructs the excavator operator to freeze/stop all movement of the equipment; 4. Direct operator to completely power down the excavator before approaching (i.e. breaking the swing radius plane) the excavator bucket to collect a sample; 5. Direct the operator keep the equipment completely powered-down until all employees are at a safe distance, and it is safe to continue work. The designated spotter should be the only person directing the operator to power the equipment back on. 6. Conduct a planned pause anytime there is a change in procedure or before beginning a new task; 7. Wear proper PPE (high vis vest/clothing).
55. Icing of Samples & Transporting coolers/equipment from work area.	1. Back Strains 2. Slips/Trips/Falls 3. Cuts/Abrasions from equipment 4. Pinch/Crushing Hazards.	1. Drain coolers of water. Use proper lifting techniques. Use wheeled transport whenever possible; 2. Plan for and utilize a safe and unobstructed path of travel to and from work area. Maintain situational awareness when traveling to and from work area; 3. Wear proper PPE (Leather gloves, long sleeves); 4. Wear proper PPE (Leather gloves, long sleeves, hard hat, Langan approved safety shoes).
56. Excavated soil.	1. Hazardous substances.	1. Use proper equipment to monitor excavated soil for contaminates; 2. Ensure levels do not exceed PEL's for contaminates; 3. Wear proper PPE.
57. Changing site conditions.	1. Stockpiles and/or excavations/trenches/pits creating unsafe paths of travel. 2. Unforeseen conditions	1. Take time to plan out stockpile, excavation, trench, and/or test pit locations, ensuring that the planned work will not create unsafe conditions or paths of travel once performed; 2. Maintain situational awareness throughout the work day (be alert of the evolving site conditions); 3. If stockpile, excavation, trench, and/or test pit locations create pinch points, site constraints, or unsafe paths of travel or other unsafe site conditions, stop work immediately and direct the excavator operator to correct the unsafe conditions by moving stockpiles, backfilling excavations, trenches, and/or test pits etc.; 4. Use stop work and conduct a planned pause to address changed site conditions.
58. All activities.	1. Slips/ Trips/ Falls; 2. Hand injuries, cuts or lacerations during manual handling of materials; 3. Foot injuries; 4. Back injuries; 5. Traffic; 6. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.); 7. High Noise levels; 8. Overhead hazards; 9. Heat Stress/ Cold Stress; 10. Eye Injuries.	1. Be aware of potential trip hazards. Follow good housekeeping procedures. Mark significant hazards; 2. Inspect for jagged/sharp edges, and rough or slippery surfaces. Keep fingers away from pinch points. Wipe off greasy, wet, slippery or dirty objects before handling. Wear proper PPE (leather/ cut-resistant gloves); 3. Wear proper PPE (Langan approved safety shoes); 4. Use proper lifting techniques. Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift. Obtain assistance when possible; 5. Wear high visibility clothing & vest / Use cones or signs to designate work area;

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		6. Be aware of surroundings at all times, including the presence of wildlife. Do not approach stray dogs. Carry/use dog/animal repellant. Use bug spray when needed; 7. Wear hearing protection; 8. Wear hard hat / Avoid areas were overhead hazards exist; 9. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather). Drink plenty of fluids to avoid dehydration. Take breaks as necessary to avoid heat/cold stress; 10. Wear safety glasses

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Site Inspection**
JSA Number: **JSA024-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.

S – ***Stop,*** *what has changed?*

T – ***Think*** *about the task*

E – ***Evaluate*** *potential hazards*

P – ***Plan*** *safe approach*

S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☒ Rubber Boots
☒ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
59.Jobsite Pre-briefing	44.None	29. Review JSA, SOP's, and discuss hazards that may be present and control measures for present hazards while on-site.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
2. Working near railroads	1. Passing Trains. 2. Slip/Trips/Falls.	1. Wear reflective vest/ Stay away from tracks/ Do not cross tracks within 10 ft. of train car or when there is a train within view/listen for train horn. 2. Be aware of tripping hazards/ Follow good housekeeping procedures/ Mark significant hazards with spray paint or cones.
3. Walking around site	10. Uneven terrain 11. Wildlife: Stray animals, mice/rats, vectors (i.e. mosquitoes, bees, etc.) 12. Weather: Heat/cold stress 13. Slip/Trips/Falls 14. Foot injuries 15. Eye injuries	9. Pay attention to surrounding area (puddles, wet, frozen, uneven areas); Mark with cones or spray paint. 10. Use bug spray/ Avoid stray animals/Use repellant when needed. 11. Dress for the correct weather situation/ Use sunscreen or protective clothing in sunlight, layers in cold weather/ Drink plenty of fluids/ Take breaks when needed. 4. Be aware of tripping hazards/ Follow good housekeeping procedures/ Mark significant hazards with spray paint or cones. 5. Wear proper PPE (Langan approved safety shoes)/ Change wet socks during cold weather. 6. Wear proper PPE (safety glasses/goggles).
4. Working near road	1. Passing vehicles 2. Slip/Trips/Falls	1. Wear reflective vest/ Stay away from roadway/ Use buddy system/ Place signage or cones when needed. 2. Be aware of tripping hazards/ Follow good housekeeping procedures/ Mark significant hazards with spray paint or cones.
5. All activities	90. Slips/ Trips/ Falls 91. Hand injuries, cuts or lacerations during manual handling of materials 92. Foot injuries 93. Back injuries 94. Traffic 95. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 96. High Noise levels 97. Overhead hazards 98. Heat Stress/ Cold Stress 99. Eye Injuries	101. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 102. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 103. Wear Langan approved safety shoes 104. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 105. Wear high visibility clothing & vest / Use cones or signs to designate work area 106. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 107. Wear hearing protection 108. Wear hard hat / Avoid areas were overhead hazards exist. 109. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 110. Wear safety glasses
Additional items.		

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Groundwater Sampling**
JSA Number: **JSA008-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☒ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Tyvek sleeves, Dermal Protection, PID				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
60. Transport equipment to work area	1. Back Strain 2. Slips/ Trips/ Falls 3. Traffic 4. Cuts/abrasions from equipment 5. Contusions from dropped equipment	1. Use proper lifting techniques / Use wheeled transport. 2. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures. 3. Wear proper PPE (high visibility vest or clothing) 4. Wear proper PPE (leather gloves, long sleeves) 5. Wear proper PPE (safety shoes)
61. Remove well cover	34. Scrape knuckles/hand 35. Strain wrist/bruise palm 36. Pinch fingers or hand	6. Wear proper PPE (leather gloves) 7. Using a hammer, tap the end of the wrench to loosen grip of bolts. 8. Wear proper PPE (leather gloves)
62. Remove well cap and lock	17. Well can pops from pressure. 18. Exposure to hazardous substances through inhalation or dermal exposure 19. Scrape knuckles/hand 20. Strain write/bruise palm	8. Remove cap slowly to relieve pressure / Do not place face over well when opening / Wear proper PPE (safety glasses) 9. Use direct air monitoring/reading instrument (i.e., PID) / Be familiar with and follow actions prescribed in the HASP / Wear proper PPE (nitrile gloves) 10. Wear proper PPE (leather gloves) 11. Using hammer, tap the end of the wrench to loosen grip
63. Measure head-space vapor levels	1. Exposure to hazardous substances through inhalation	1. Do not place face over well when collecting measurement
64. Remove dedicated tubing (if necessary)	1. Exposure to hazardous substances through inhalation or dermal exposure 2. Tubing swings around after removal	1. Wear proper PPE (nitrile gloves, Tyvek sleeves) 2. Wear proper PPE (safety glasses)
65. Set-up plastic sheeting for work site around the well	1. Lacerations when cutting plastic sheeting.	1. Use scissors to cut plastic sheeting / Cut motions should always be away from body and body parts

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
66. Measure depth to water	1. Exposure to hazardous substances through inhalation or dermal exposure 2. Pinch fingers or hand in water level instrument	1. Wear proper PPE (nitrile gloves) 2. Wear proper PPE (leather gloves)
67. Calibrate monitoring equipment	1. Skin or eye contact with calibration chemicals 2. Pinch fingers or hand in monitoring equipment	1. Wear proper PPE (safety glasses, nitrile gloves) 2. Wear proper PPE (leather gloves) / Avoid pinch points
68. Install sampling pump in well	1. Hand injuries during installation of pump 2. Lacerations when cutting tubing. 3. Back strain during installation of pump 4. Physical hazards associated with manual lifting of heavy equipment. 5. Back strain from starting generator. 6. Burns from hot exhaust from generator. 7. Electrical shock from improper use of generator and pump 8. Contaminated water spray from loose connections	1. Wear proper PPE (leather gloves, nitrile gloves) 2. Use safety tubing cutter. 3. Use proper lifting techniques. 4. Use proper lifting techniques / Use wheeled transport for heavy equipment. 5. Use arm when starting generator / Do not over-strain if generator does not start. 6. Do not touch generator near exhaust / Use proper handle to carry / Allow generator to cool down before moving. 7. Properly plug in pump to generator / Do not allow the pump or generator to contact water / Check for breaks in the cord. 8. Check all tubing connections to ensure they are tight and secure

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
10. Purge water	1. Contact with potentially contaminated groundwater. 2. Back strain from lifting buckets of water 3. Tripping potential on sample discharge lines and pump electric lines	1. Wear proper PPE (safety glasses, nitrile gloves) 2. Use proper lifting techniques / Use wheeled transport. 3. Organize discharge of electric line to keep out of way as much as possible / Mark potential tripping hazards with caution tape or safety cones
11. Sample water collection	1. Contact with potentially contaminated groundwater through dermal exposure. 2. Contact with and burns from acid used for sample preservation. 3. Tripping potential on sample discharge lines and pump electric lines 4. Lacerations from broken sample bottles 5. Back strain when transporting coolers full of collected samples. 6. Slips/ Trips/ Falls	1. Wear proper PPE (safety glasses, nitrile gloves) 2. Wear proper PPE (safety glasses, nitrile gloves) / Ensure sample bottle lids are secure before use and after sample collection. 3. Organize line to keep out of the way as much as possible / Mark potential tripping hazards with caution tape or safety cones. 4. Do not over-tighten bottle caps / Handle bottles safely to prevent breakage / Wrap glass bottles in bubble wrap, if possible 5. Use proper lifting techniques / Use wheeled transport / Seek assistance if coolers weight exceeds 50lbs. / Minimize distance to vehicle. 6. Have unobstructed path to vehicle or collection point / Follow good housekeeping procedures / Do not lift/walk with coolers that are too heavy/difficult to lift
12. Remove pump and pack up equipment	1. Back strain when removing pump or lifting heavy equipment	1. Use proper lifting technique / Use wheeled transport for heavy equipment
13. Replace well cap and lock	1. Scrape fingers/hand 2. Strain wrist/bruise palm	1. Wear proper PPE (leather gloves) 2. Using hammer, tap the end of the well cap to tighten grip
14. Replace well cover	1. Scrape knuckles/hand 2. Strain write/bruise palm. 3. Pinch fingers or hand	1. Wear proper PPE (leather gloves) 2. Using hammer, tap the end of the wrench to tighten the grip of the bolts. 3. Wear proper PPE (leather gloves)
15. Transport drums to disposal staging location	1. Back, arm or shoulder strain from moving drums. 2. Pinch hazard 3. Contact with potentially contaminated groundwater when moving improperly sealed drums. 4. Slips/ Trips/ Falls when moving drum. 5. Drop drum on feet/toes	1. Use drum cart for moving drums / Use proper lifting techniques / Obtain assistance, if needed 2. Wear proper PPE (leather gloves) 3. Wear proper PPE (nitrile gloves under leather gloves) / Properly seal drum to prevent leak. 4. Ensure route to move drum to storage space is dry and free from obstructions. 5. Wear proper PPE (safety shoes)
16. Place used PPE in designated disposal drum	1. Pressure build-up inside drum 2. Pinch hazard	1. Remove cap from bung hole in drum to relieve pressure. 2. Wear proper PPE (leather gloves)
17. Decontaminate equipment	1. Splashing water/soap from decontamination 2. Contact with potentially contaminated groundwater through dermal exposure. 3. Electrical shock from broken electric cords	1. Wear proper PPE (safety glasses) 2. Wear proper PPE (safety glasses, dermal protection) 3. Properly plug in pump to generator / Do not allow the pump or generator to contact water / Check for breaks in the cord
18. All activities	100. Slips/ Trips/ Falls 101. Hand injuries, cuts, or lacerations during manual handling of materials 102. Foot injuries 103. Back injuries 104. Traffic 105. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.)	111. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 112. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 113. Wear Langan approved safety shoes.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
	106. High Noise levels 107. Overhead hazards 108. Heat Stress/ Cold Stress 109. Eye Injuries	114. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 115. Wear high visibility clothing & vest / Use cones or signs to designate work area. 116. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 117. Wear hearing protection 118. Wear hard hat / Avoid areas where overhead hazards exist. 119. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 120. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Well Installation**
JSA Number: **JSA019-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT REQUIRED:				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: PID, Tyvek sleeves				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
69. Move equipment to work site	45. Back strain when lifting equipment. 46. Slips/ Trips/ Falls while moving equipment. 47. Traffic (if applicable) 48. Pinched fingers or running over toes during GeoProbe set-up. 49. Overturn drilling rig while transporting to loading dock on flat-bed tow truck	30. Use proper lifting technique (use legs for bending and lifting and not the back)/ Use wheeled transport for heavy equipment / Get assistance when handling loads greater than 50 lbs. / Minimize distance to vehicle 31. Use proper lifting technique (use legs for bending and lifting and not the back) / Use wheeled transport for heavy equipment / Get assistance when handling loads greater than 50 lbs. / Minimize distance to vehicle / Have unobstructed path to vehicle or collection point / Do not lift/walk with boxes that are heavy/difficult to lift 32. Wear high visibility safety vests or clothing / Exercise caution 33. Wear proper PPE (cut-resistant gloves) / Stay alert, be aware of geoprobe rig at all times 34. Drill rig should be parked in center of flat-bed tow truck / Emergency brake shall be used at all times during transport on the flat-bed truck/ All unnecessary personnel should stay away from the flat-bed truck during moving activities
70. Calibration of monitoring equipment	37. Skin or eye contact with calibration chemicals 38. Pinch fingers in monitoring equipment	35. Wear proper PPE (safety glasses/ goggles) 36. Wear proper PPE (leather gloves)
37. Set-up GeoProbe rig	21. Geoprobe rig movement	12. All field personnel should stay clear of the GeoProbe rig while moving / Use a spotter when backing up the GeoProbe
38. Advance GeoProbe rods below ground surface to desired depth	16. Underground utilities 17. High noise levels	12. Clean all subsurface soil borings to a minimum of 5 feet below grade. 13. Wear proper PPE (hearing protection)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
39. Remove and open acetate liner. 5. Remove and open acetate liner (cont'd)	110. Pinched fingers while removing macrocore. 111. Cuts/lacerations when cutting acetate liner open. 112. Exposure to hazardous vapors 113. Skin contacts with contaminated soil	5. Wear proper PPE (nitrile gloves, cut-resistant or leather gloves 6. Wear proper PPE (cut-resistant or leather gloves) 7. Do not place face over acetate liner when opening / Monitor hazardous vapors in air with PID / Upgrade PPE as necessary based on levels contained in the Health and Safety Plan 8. Wear proper PPE (nitrile gloves)
6. Remove excess soil from acetate liner and place in 55-gallon drum (IF NOT PERFORMED BY LANGAN, REMOVE!)	5. Cuts/lacerations from acetate liner 6. Pinched fingers/hand while opening/closing drum. 7. Skin contacts with contaminated soil 8. Soil debris in eyes	5. Wear proper PPE (cut-resistant or leather gloves) 6. Wear proper PPE (cut-resistant or leather gloves) 7. Wear proper PPE (nitrile gloves) 8. Wear proper PPE (safety glasses)
7. Attach hollow-stem augers to the GeoProbe rig; Advance augers and attach. additional augers until desired depth is reached	1. Strain wrist/bruise palm 2. Pinched fingers 3. Back Strain 4. Clothing entanglement 5. Carbon monoxide poisoning 6. Bruise toes/foot 7. High noise levels 8. Skin contacts with contaminated soil	1. Wear proper PPE (cut-resistant or leather gloves) 2. Wear proper PPE (cut-resistant or leather gloves) 3. Use proper lifting techniques. 4. Wear proper work attire(no loose clothing/strings) 5. Properly ventilate work area 6. Wear proper PPE (safety shoes) 7. Wear proper PPE (hearing protection) 8. Wear proper PPE (Tyvek sleeves, nitrile gloves)
8. Install monitoring well	1. Pinched fingers 2. Lacerations/abrasions 3. Back Strain	1. Wear proper PPE (cut-resistant or leather gloves) 2. Wear proper PPE (cut-resistant or leather gloves) 3. Use proper lifting techniques
9. Tremie-grout annulus space above bentonite seal	1. Back strain 2. Pinched fingers	1. Use proper lifting techniques. 2. Wear proper PPE (cut-resistant or leather gloves)
10. Install flush-mount monitoring well pad	1. Splashed concrete. 2. Pinched fingers 3. Cuts/lacerations	1. Wear proper PPE (safety glasses) 2. Wear proper PPE (cut-resistant or leather gloves) 3. Wear proper PPE (cut-resistant or leather gloves)
11. Decontaminate equipment	1. Splashing water/soap 2. Contact with potentially contaminated groundwater/soil through dermal exposure. 3. Electrical shock from broken electric cords	1. Wear proper PPE (safety glasses) 2. Wear proper PPE (safety glasses, dermal protection) 3. Properly plug in pump to generator / Do not allow the pump or generator to contact water / Check for breaks in the cord
12. Transport drums to central staging location (IF NOT PERFORMED BY LANGAN, REMOVE!)	7. Back, arm or shoulder strain from moving drums. 8. Pinch fingers/hand in drum cart when moving drums. 9. Pinch fingers/hand when operating lift-gate on vehicle. 10. Contact with potentially contaminated groundwater when moving improperly sealed drums. 11. Slips when moving drums. 12. Drop drum on feet/toes	121. Use drum cart for moving drums / Use proper lifting techniques / Do not lift heavy loads without assistance. 122. Wear proper PPE (cut-resistant or leather gloves) 123. Wear proper PPE (cut-resistant or leather gloves) 124. Wear proper PPE (nitrile gloves underneath work gloves) 125. Follow good housekeeping procedures / Ensure route to move drum and storage space is free from obstructions. 126. Wear proper PPE (safety shoes) / Work in a safe manner to prevent dropped drum

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
13. All activities 13. All activities (cont'd)	11. Slips/ Trips/ Falls 12. Hand injuries, cuts, or lacerations during manual handling of materials 13. Foot injuries 14. Back injuries 15. Traffic 16. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 17. High Noise levels 18. Overhead hazards 19. Heat Stress/ Cold Stress 20. Eye Injuries	11. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 12. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 13. Wear Langan approved safety shoes. 14. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 15. Wear high visibility clothing & vest / Use cones or signs to designate work area. 16. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 17. Wear hearing protection 18. Wear hard hat / Avoid areas where overhead hazards exist. 19. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 20. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Monitoring Well Development**
JSA Number: **JSA026-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Tyvek Sleeves				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
71.Transport equipment to work area	50.Back Strains 51.Slips/Trips/Falls 52.Traffic 53.Cuts/Abrasions/Contusions from equipment	35. Use proper lifting techniques/ Use wheeled transport/ use buddy system when lifting equipment. 36. Minimize distance from work area/ unobstructed path to collection points and vehicle/ Follow good housekeeping procedures. 37. Wear high-visibility vest or clothing/Exercise caution/ Use traffic cones or signage if needed. 38. Wear proper PPE (leather gloves, long sleeves, Langan approved safety shoes).
72.Measure depth of water	39.Exposure to hazardous substances 40.Pinched fingers	40. Wear proper PPE (Nitrile gloves, Safety glasses/Face shield). 41. Wear proper PPE (cut-resistant gloves).
73.Install Tremie pipe in the monitoring well and connect to water source.	22. Hand injuries during installation (pinched fingers/hands). 23. Back strain from holding Tremie pipe. 24. High pressure water spray.	13. Wear proper PPE (Nitrile gloves/cut-resistant gloves). 14. Use proper lifting techniques/ Use two personnel when lowering pump greater than 80 feet. 15. Ensure all those connections are tight and secure/ Use proper PPE (face shield and safety glasses).
74.Install pump in to well. a. Connect pump to sample tubing. b. Lower pump to desired depth in well. c. Connect sample tubing to flow cell. d. Connect pump to power source	18. Hand injuries during pump installation and sample tubing cutting. 19. Back strain 20. Electric shock 21. Exhaust gases from generator 22. Burns from hot equipment	14. Wear proper PPE when installing pump and cutting sample tubing (Nitrile and cut-resistant gloves)/ Use tubing cutter. 15. Proper lifting techniques/ Two personnel when installing pump at depths greater than 80 feet/ Use buddy when lifting heavy loads (pump, generator)/Use wheeled transport. 16. Ensure equipment is (LO/TO: locked out/tagged out) prior to preforming any electrical connections/ Inspect wires for frays or cuts/Ensure generator is properly grounded prior to starting.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
(generator) e. Turn on power source (generator)		17. Position generator so that exhaust is flowing away from work area. 18. Do not touch exhaust or any hot part of generator/ Allow equipment time to cool down prior to carrying/ Use proper PPE (long sleeves, leather gloves)
75. Develop monitoring well. a. Jet water into well using Tremie pipe. b. Turn pump on and adjust to desired flow rate. c. Surge pump up and down well to remove sediment from screen. d. Containerize all purge water from well.	114. Hand injuries 115. Face injuries 116. Contaminated spray from water	127. Wear proper PPE (cut-resistant gloves and nitrile gloves). 128. Wear proper PPE (face shield and safety glasses)/do not stand over well opening. 129. Wear proper PPE (Face shield and safety goggles)/Tyvek over garments/ Ensure all connections are secure and tight/ Tubing outlet is contained in an overflow container.
76. Drum staging area.	1. Back, Arm, and shoulder strain. 2. Pinch points 3. Cross contamination 4. Slip/Trips/Falls	1. Use proper lifting techniques/ Use drum carts when moving drums/ use buddy system for moving of drums if needed/Move drums shortest distance needed. 2. Keep fingers and feet away from pinch points/ Use proper PPE (cut-resistant gloves, Langan approved safety shoes) 3. Use proper PPE (Nitrile gloves, Tyvek sleeves) 4. Ensure pathway is clear prior to moving equipment/ Mark all hazards/ Use additional person as a spotter if needed.
77. Equipment pack-up	1. Back Strains 2. Slips/Trips/Falls 3. Traffic 4. Cuts/Abrasions/Contusions from equipment.	1. Use proper lifting techniques/ Use wheeled transport/ use buddy system when lifting equipment. 2. Minimize distance from work area/ Unobstructed path to collection points and vehicle/ Follow good housekeeping procedures. 3. Wear high-visibility vest or clothing/Exercise caution/ Use traffic cones or signage if needed. 130. Wear proper PPE (leather gloves, long sleeves, Langan approved safety shoes).
78. All activities	1. Slips/ Trips/ Falls 2. Hand injuries, cuts, or lacerations during manual handling of materials 3. Foot injuries 117. Back injuries 118. Traffic 119. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 120. High Noise levels 121. Overhead hazards 122. Heat Stress/ Cold Stress 123. Eye Injuries	1. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves 3. Wear Langan approved safety shoes 4. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 5. Wear high visibility clothing & vest / Use cones or signs to designate work area 6. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 7. Wear hearing protection 8. Wear hard hat / Avoid areas where overhead hazards exist. 9. Wear proper attire for weather conditions (sunscreen or protective clothing

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 10. Wear safety glasses.
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Groundwater/Product Purging/Sampling with Bailer**
JSA Number: **JSA053**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

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E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☒ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☒ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Tyvek sleeves, Dermal Protection, PID, absorbent pads				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
79. Transport equipment to work area	6. Back Strain 7. Slips/ Trips/ Falls 8. Traffic 9. Cuts/abrasions from equipment 10. Contusions from dropped equipment	6. Use proper lifting techniques / Use wheeled transport. 7. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures. 8. Wear proper PPE (high visibility vest or clothing) 9. Wear proper PPE (leather gloves, long sleeves) 10. Wear proper PPE (safety shoes)
80. Remove well cover	41. Scrape knuckles/hand 42. Strain wrist/bruise plan 43. Pinch fingers or hand	9. Wear proper PPE (leather gloves) 10. Using a hammer, tap the end of the wrench to loosen grip of bolts. 11. Wear proper PPE (leather gloves)
81. Remove well cap and lock	25. Well can pops from pressure. 26. Exposure to hazardous substances through inhalation or dermal exposure 27. Scrape knuckles/hand 28. Pinch points 29. Strain write/bruise palm	12. Remove cap slowly to relieve pressure / Do not place face over well when opening / Wear proper PPE (safety glasses, face shield, hand protection) 13. Use direct air monitoring/reading instrument (i.e., PID) / Be familiar with and follow actions prescribed in the HASP / Wear proper PPE (nitrile gloves) 14. Wear proper PPE (leather gloves) 15. Using hammer, tap the end of the wrench to loosen grip
82. Measure head-space vapor levels	2. Exposure to hazardous substances through inhalation	2. Do not place face over well when collecting measurement
83. Set-up plastic sheeting/absorbent pads	2. Lacerations when cutting plastic sheeting/absorbent pads.	2. Use scissors to cut plastic sheeting/absorbent pads / Cut motions should always be away from body and body parts

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
for work site around the well		
84. Lower Bailer sleeve into well	7. Repetitive motion injury (pulled arm/back muscles) 8. Dehydration	7. Take breaks while lowering bailer into well/ Use a mechanical device to lower bailer into well/ Rotate employees (take turns conducting the manual labor portion) 8. Take breaks and drink water.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
7. Purge/Sample water/product collection	1. Contact with potentially contaminated groundwater or product through dermal exposure 2. Contact with and burns from acid used for sample preservation 9. Tripping potential on sampling lanyard 10. Lacerations from broken sample bottles 11. Back strain when transporting coolers full of collected samples. 12. Slips/ Trips/ Falls	1. Wear proper PPE (safety glasses, nitrile gloves, safety shield, Tyvek) 2. Ensure sample bottle lids are secure before use and after sample collection 3. Organize lanyard to keep out of the way as much as possible / Mark potential tripping hazards with caution tape or safety cones 9. Do not over-tighten bottle caps / Handle bottles safely to prevent breakage / Wrap glass bottles in bubble wrap, if possible 10. Use proper lifting techniques / Use wheeled transport / Seek assistance if coolers weight exceeds 50lbs. / Minimize distance to vehicle. 11. Have unobstructed path to vehicle or collection point / Follow good housekeeping procedures / Do not lift/walk with coolers that are too heavy/difficult to lift
8. Retrieval of bailer	9. Repetitive motion injury (pulled arm/back muscles) 10. Dehydration	9. Take breaks while retrieving bailer out of the well/ Use a mechanical device to raise bailer out of well/ Rotate employees (take turns conducting the manual labor portion) 10. Take breaks and drink water.
9. Pack-up equipment	2. Back strain when removing or lifting heavy equipment	2. Use proper lifting technique / Use wheeled transport for heavy equipment
10. Replace well cap and lock	3. Scrape fingers/hand 4. Strain wrist/bruise palm	3. Wear proper PPE (leather gloves) 4. Using hammer, tap the end of the well cap to tighten grip
11. Replace well cover	4. Scrape knuckles/hand 5. Strain write/bruise palm. 6. Pinch fingers or hand	4. Wear proper PPE (leather gloves) 5. Using hammer, tap the end of the wrench to tighten the grip of the bolts. 6. Wear proper PPE (leather gloves)
12. Place used PPE in designated disposal drum	3. Pressure build-up inside drum 4. Pinch hazard	3. Remove cap from bung hole in drum to relieve pressure. 4. Wear proper PPE (leather gloves) 5. Product drums may require additional spill protection/electrical grounding, check local regulations
13. Decontaminate equipment	4. Splashing water/soap from decontamination 5. Contact with potentially contaminated groundwater through dermal exposure.	4. Wear proper PPE (safety glasses) 5. Wear proper PPE (safety glasses, dermal protection)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
14. All activities	124. Slips/ Trips/ Falls 125. Hand injuries, cuts, or lacerations during manual handling of materials 126. Foot injuries 127. Back injuries 128. Traffic 129. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 130. High Noise levels 131. Overhead hazards 132. Heat Stress/ Cold Stress 133. Eye Injuries	131. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 132. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 133. Wear Langan approved safety shoes. 134. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 135. Wear high visibility clothing & vest / Use cones or signs to designate work area. 136. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 137. Wear hearing protection 138. Wear hard hat / Avoid areas where overhead hazards exist. 139. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 140. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Sub-slab soil gas temporary point installation and sampling**
JSA Number: **JSA037-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

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PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☒ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Tyvek Sleeves				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
85. Transport equipment to work site	54. Back injuries 55. Slips/Trips/Falls 56. Traffic 57. Hand injuries	39. Use proper lifting techniques/ Use wheeled transport/ Get assistance when need with moving equipment/ Minimize distance from vehicle 40. Minimize distance from vehicle/ Have unobstructed pathway to vehicle and collection points/ Mark tripping hazards with spray paint, cones, or caution tape/ Observe good housekeeping procedures. 41. Wear proper PPE (High Visibility vest and clothing)/ Exercise caution (stay alert-stay alive) 42. Wear proper PPE (leather gloves)/ Keep finger and hands clear of pinch points.
86.Mark area for drilling	44.Slips/Trips/Falls	42. Minimize distance from vehicle/ Have unobstructed pathway to vehicle and collection points/ Mark tripping hazards with spray paint, cones, or caution tape/ Observe good housekeeping procedures
87.Drill sampling points with hammer drill	30. Eye injuries 31. Dust exposure 32. Hand injuries 33. Catch items (clothing) 34. Electric shock 35. Chemical atmosphere hazard (vapor) 36. Slips/Trips/Falls	16. Wear proper PPE (safety glasses) 17. Wear proper PPE (dust mask) 18. Wear proper PPE (leather gloves)/ Keep hands and fingers out of pinch points/ Avoid drill catching on ground and twisting wrist or hand/ Release drill grip if drill becomes caught/ Ensure drill is unplugged prior to inserting bit. 19. Tie up or tuck-in all loose clothing/ Maintain distance from drill. 20. Inspect power cable for cuts or nicks before use/ Use GFCI outlet on power cord/ Do not use in wet conditions. 21. Monitor air, vapors with Photo-ionization detector (PID)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		22. Minimize distance from vehicle/ Have unobstructed pathway to vehicle and collection points/ Mark tripping hazards with spray paint, cones, or caution tape/ Observe good housekeeping procedures
88. Measure vapor content and depth to bottom of hole	1. Chemical atmosphere hazard (vapors)	1. Monitor air, vapors with Photo-ionization detector (PID)/ Keep face away from opening of hole while collecting measurements
89. Set-up of shroud and sampling canister system	1. Hand injuries 2. Chemical atmosphere hazard (vapors) 3. Slips/Trips/Falls	1. Wear proper PPE (leather gloves, nitrile gloves)/ Keep fingers away from pinch points when installing pump/ Do not use open blades, use tubing cutter 2. Monitor air, vapors with Photo-ionization detector (PID)/ Keep face away from opening of hole while collecting measurements 3. Minimize distance from vehicle/ Have unobstructed pathway to vehicle and collection points/ Mark tripping hazards with spray paint, cones, or caution tape/ Observe good housekeeping procedures
90. Purge soil gas	1. Chemical atmosphere hazard (vapors)	1. Monitor air, vapors with Photo-ionization detector (PID)/ Keep face away from exhaust port of pump
91. Sample collection (opening and closing valves)	1. Hand injuries	1. Wear proper PPE (leather gloves)/ Keep fingers away from pinch points
92. Sealing sampling holes	1. Back injuries 2. Concrete dust 3. Eye injuries	1. Use proper lifting techniques for lifting of cement bags 2. Wear proper PPE (dust mask) 3. Wear proper PPE (safety glasses)
93. All activities	134. Slips/ Trips/ Falls 135. Hand injuries, cuts, or lacerations during manual handling of materials 136. Foot injuries 137. Back injuries 138. Traffic 139. Wildlife: Stray animals, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 140. High Noise levels 141. Overhead hazards 142. Heat or cold injuries 143. Eye Injuries	141. Be aware of potential trip hazards/ Follow good housekeeping procedures/ Mark significant hazards. 142. Inspect for jagged/sharp edges, and rough or slippery surfaces/ Keep fingers away from pinch points/ Wipe off greasy, wet, slippery, or dirty objects before handling/ Wear leather/ cut-resistant gloves. Wear proper PPE (Langan approved safety shoes) 143. Use proper lifting techniques/ Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift/ Obtain assistance when possible. 144. Wear high visibility clothing & vest/ Use cones or signs to designate work area. 145. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray animals/ Carry and use animal repellant when needed/ Use bug spray when needed. 146. Wear hearing protection 147. Wear hard hat/ Avoid areas where overhead hazards exist. 148. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather)/ Drink plenty of fluids to avoid dehydration/ Takes breaks as necessary to avoid heat/cold stress. 149. Wear safety glasses

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: Indoor Air Sampling
JSA Number: JSA007-01

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

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S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: PID, Respiratory Protection (if necessary)				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
94. Building walkthrough and background contaminant removal	58. Slips / Trips/ Falls 59. Exposure to substances/vapors during removal	16. Be aware of potential trip hazards / Follow good housekeeping procedures / Mark significant below-grade hazards (i.e., holes, trenches) with safety cones or spray paint. 17. Monitor indoor air concentrations with a PID / Wear proper PPE (nitrile gloves) / Wear proper respiratory protection if necessary
95. Transport equipment to work area	11. Back Strain 12. Slips/ Trips/ Falls 13. Traffic 14. Cuts/abrasions from equipment 15. Contusions from dropped equipment	11. Use proper lifting techniques / Use wheeled transport. 12. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures. 13. Wear proper PPE (high visibility vest or clothing) 14. Wear proper PPE (leather gloves, long sleeves) 15. Wear proper PPE (safety shoes)
96. Mark out areas for indoor air sampling	45. Slips/ Trips/ Falls	12. Be aware of potential trip hazards / Follow good housekeeping procedures / Mark significant below-grade hazards (i.e., holes, trenches) with safety cones or spray paint
97. Set-up canisters and begin indoor air sampling	37. Dropping crates or canisters 38. Pinch hazard	16. Exercise caution when moving crates and canisters / Use proper housekeeping of materials during sample events / Do not carry too many items at one time / Perform several trips, if necessary 17. Wear proper PPE (leather gloves)
98. Sample collection	3. Dropping crates or canisters 4. Pinched fingers from opening valves	3. Exercise caution when moving crates and canisters / Use proper housekeeping of materials during sample events / Do not carry too many items at one time / Perform several trips, if necessary 4. Wear proper PPE (leather gloves) / Keep fingers away from pinch points
99. Pack up equipment	3. Back strain	3. Use proper lifting techniques / Use wheeled transport.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
	4. Slips/ Trips/ Falls 5. Traffic	4. Be aware of potential trip hazards / Follow good housekeeping procedures / Minimize distance to vehicle. 5. Wear proper PPE (safety vest)
100. All activities	144. Slips/ Trips/ Falls 145. Hand injuries, cuts, or lacerations during manual handling of materials 146. Foot injuries 147. Back injuries 148. Traffic 149. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 150. High Noise levels 151. Overhead hazards 152. Heat Stress/ Cold Stress 153. Eye Injuries	150. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 151. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 152. Wear Langan approved safety shoes. 153. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 154. Wear high visibility clothing & vest / Use cones or signs to designate work area. 155. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 156. Wear hearing protection 157. Wear hard hat / Avoid areas where overhead hazards exist. 158. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 159. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Hammer Drill**
JSA Number: **JSA049**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
101. Transport equipment to work area	60.Back Strain 61.Slips/ Trips/ Falls 62.Traffic 63.Cuts/abrasions from equipment 64.Contusions from dropped equipment	18. Use proper lifting techniques / Use wheeled transport. 19. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures. 20. Wear proper PPE (high visibility vest or clothing) 21. Wear proper PPE (leather gloves, long sleeves) 22. Wear proper PPE (safety shoes)
102. Electrical Connection	46.Inspect electrical cord to drill. 47.Inspect hammer drill. 48.Inspect extension cord. 49.Test GFCI	13. Check the plug, ensure all connections are in place, check cord for frayed sections. If plug or cord are worn, do not use equipment until repaired. 14. Inspect chuck for proper grasping and holding of bit, check that plastic housing is not cracked or missing pieces. Do not use if chuck does not work properly or housing is compromised. 15. Inspect extension cord, if worn or stripped pull from service and replace 16. Test GFCI, replace if GFCI fails
103. Drill Bit	1. Inspect drill bit	1. Replace if worn. 2. Wear proper PPE (leather gloves) when installing and removing drill bit. 3. Ensure equipment is unplugged from electrical power when removing and installing drill bit.
104. Use of Hammer Drill	1. Hazards associated with using hammer drill, flying objects, heavy equipment, ground level hazards and dust. 2. Slips/ Trips/ Falls 3. Hazards associated drilling into concrete slab	1. Maintain a safe distance from other site operations / Wear proper PPE (hard hat, safety glasses, safety shoes, safety vest, ear protection and leather gloves) 2. Be aware of potential trip hazards / Follow good housekeeping procedures / Mark extension cord pathway with safety cones. 3. Do not push hammer drill during use.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
105. All activities 4. All activities (cont'd)	154. Slips/ Trips/ Falls 155. Hand injuries, cuts, or lacerations during manual handling of materials 156. Foot injuries 157. Back injuries 158. Traffic 159. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 160. High Noise levels 161. Overhead hazards 162. Heat Stress/ Cold Stress 163. Eye Injuries	160. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 161. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 162. Wear Langan approved safety shoes. 163. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 164. Wear high visibility clothing & vest / Use cones or signs to designate work area. 165. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 166. Wear hearing protection 167. Wear hard hat / Avoid areas where overhead hazards exist. 168. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 169. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Test Pits**
JSA Number: **JSA016-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
106. Transport equipment to work area	65.Back Strain 66.Slips/ Trips/ Falls 67.Traffic 68.Cuts/abrasions from equipment 69.Contusions from dropped equipment	23. Use proper lifting techniques / Use wheeled transport 24. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures 25. Wear proper PPE (high visibility vest or clothing) 26. Wear proper PPE (leather gloves, long sleeves) 27. Wear proper PPE (safety shoes)
107. Digging Test Pit	50.Back Strain 51.Unstable walls of excavation	17. Observe proper digging technique. Ensure spoil pile and equipment are at least 2 feet from edge of excavation. 18. Excavate test pit in a stepped manor.
108.All activities	164.Slips/ Trips/ Falls 165.Hand injuries, cuts, or lacerations during manual handling of materials 166.Foot injuries 167.Back injuries 168.Traffic 169.Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 170.High Noise levels 171.Overhead hazards 172.Heat Stress/ Cold Stress 173.Eye Injuries	170.Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 171.Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 172.Wear Langan approved safety shoes 173.Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 174.Wear high visibility clothing & vest / Use cones or signs to designate work area

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
3. All activities (cont'd)		175. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 176. Wear hearing protection 177. Wear hard hat / Avoid areas where overhead hazards exist. 178. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 179. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: Hammer Drill
JSA Number: JSA049

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Dust mask/respirator				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
109. Transport equipment to work area	70.Back Strain 71.Slips/ Trips/ Falls 72.Traffic 73.Cuts/abrasions from equipment 74.Contusions from dropped equipment	28. Use proper lifting techniques / Use wheeled transport 29. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures 30. Wear proper PPE (high visibility vest or clothing) 31. Wear proper PPE (leather gloves, long sleeves) 32. Wear proper PPE (safety shoes)
110. Electrical Connection	52.Inpsect electrical cord to drill 53.Inspect hammer drill 54.Inspect extension cord 55.Test GFCI	19. Check the plug, insure all connections are in place, check cord for frayed sections. If plug or cord are worn, do not use equipment until repaired 20. Inspect chuck for proper grasping and holding of bit, check that plastic housing is not cracked or missing pieces. Do not use if chuck doesn't work properly or housing is compromised. 21. Inspect extension cord, if worn or stripped pull from service and replace 22. Test GFCI, replace if GFCI fails
111. Drill Bit	2. Inspect drill bit	4. Replace if worn 5. Wear proper PPE (leather gloves) when installing and removing drill bit. 6. Ensure equipment is unplugged from electrical power when removing and installing drill bit.
112. Use of Hammer Drill	4. Hazards associated with using hammer drill, flying objects, heavy equipment, ground level hazards and dust 5. Slips/ Trips/ Falls 6. Hazards associated drilling into concrete slab	4. Maintain a safe distance from other site operations / Wear proper PPE (hard hat, safety glasses, safety shoes, safety vest, ear protection, dust mask/respirator, and leather gloves) 5. Be aware of potential trip hazards / Follow good housekeeping procedures / Mark extension chord pathway with safety cones 6. Do not push hammer drill during use.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
113. All activities 4. All activities (cont'd)	174. Slips/ Trips/ Falls 175. Hand injuries, cuts or lacerations during manual handling of materials 176. Foot injuries 177. Back injuries 178. Traffic 179. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 180. High Noise levels 181. Overhead hazards 182. Heat Stress/ Cold Stress 183. Eye Injuries	180. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 181. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 182. Wear Langan approved safety shoes 183. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 184. Wear high visibility clothing & vest / Use cones or signs to designate work area 185. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 186. Wear hearing protection 187. Wear hard hat / Avoid areas were overhead hazards exist. 188. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 189. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Hand Auger Soil Sampling**
JSA Number: **JSA003-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT REQUIRED:				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Half-face respirator, dust cartridges, PID (if applicable)				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
114. Unpack equipment	75. Slips/ Trips/ Falls 76. Physical hazards including strains and hand injury	1. Be aware of hazards in area/ Place safety cones in areas of potential slips/trips/falls 2. Use proper lifting techniques / Do not lift heavy loads without assitance / Avoid putting hands near pinch points / Wear proper PPE (leather gloves)
115. Calibration of monitoring equipment	56. Skin or eye contact with calibration chemicals 57. Pinch fingers in monitoring equipment	43. Wear proper PPE (safety glasses/ goggles) 44. Wear proper PPE (leather gloves)
116. Advancing and removing hand auger	39. Physical hazards including back strain and hand injury	23. Twist auger using arms and shoulders/ Do not over exert / Keep back in neutral position, bend at the knees / Request assistance when needed / Remove auger from ground keeping back in neutral position and lift using legs
117. Sample collections a) Monitor parameters b) Prepare sample containers and labels c) Collect soil sample d) Securely cap containers, label and store in sample cooler until shipping e) Deliver cooler to lab or courier to lab	23. Contact with potentially contaminated soil 24. Lacerations from broken sample bottles 25. Back strain with transporting coolers 26. Internal exposure to contaminants through inhalation of dust 27. Slips/ Trips/ Falls	19. Use monitoring devices / Wear proper PPE (safety glasses, nitrile gloves) 20. Do not over-tighten bottles caps / Handle bottles safety to prevent breakage 21. Use proper lifting techniques / Do not lift heavy loads without assistance 22. Avoid creating dust / If necessary, wear a half-face respirator with applicable dust cartridges / Inspect respirator for damage and cleanliness prior to use / Clean respirator after each use and store in a clean, secure location 23. Be alert / Follow good housekeeping procedures
118. Decontamination of equipment	184. Splashing water/soap from decontamination 185. Contact with potentially contaminated soil	190. Wear proper PPE (safety glasses, gloves) 191. Wear proper PPE (safety glasses, gloves)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
119. All activities 6. All activities (cont'd)	1. Slips/ Trips/ Falls 2. Hand injuries, cuts or lacerations during manual handling of materials 3. Foot injuries 4. Back injuries 5. Traffic 6. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 7. High Noise levels 8. Overhead hazards 9. Heat Stress/ Cold Stress 10. Eye Injuries	1. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 3. Wear Langan approved safety shoes 4. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 5. Wear high visibility clothing & vest / Use cones or signs to designate work area 6. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 7. Wear hearing protection 8. Wear hard hat / Avoid areas were overhead hazards exist. 9. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 10. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Geotechnical Drilling**
JSA Number: **JSA014-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: NomeX (as needed)				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
120. Transport equipment to work area	77. Back Strain 78. Slips/ Trips/ Falls 79. Traffic 80. Cuts/abrasions from equipment 81. Contusions from dropped equipment	33. Use proper lifting techniques / Use wheeled transport 34. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures 35. Wear proper PPE (high visibility vest or clothing) 36. Wear proper PPE (leather gloves, long sleeves) 37. Wear proper PPE (safety shoes)
121. Set-up HSA/SPT rig	58. Slips/ Trips/ Falls 59. Pinch Hazards 60. High noise levels 61. Clothing entanglement 62. Electrocution/falling equipment and debris from raising HSA/SPT rig mast 63. Carbon monoxide poisoning 64. HSA/SPT rig roll-over 65. HSA/SPT rig movement	23. Be aware of potential trip hazards / Follow good housekeeping procedures / Mark significant below-grade hazards (i.e. holes, trenches) with safety cones or spray paint 24. Wear proper PPE (leather gloves) 25. Wear proper PPE (hearing protection) 26. Wear proper attire for HSA/SPT rig (no loose clothing, strings, etc.) 27. Wear proper PPE (hard hats) / Be aware of locations at all times / Look up, down and around before raising mast / Check HSA/SPT drill rig mast for loose objects/debris before raising 28. Stand upwind of rig engine 29. Do not move rig with mast raised / Set stabilizers prior to raising mast / Inspect work area / If area appears unstable, the boring locations should be moved. 30. All field personnel should stay clear of rig while moving / Use a spotter when backing up the rig
122. Advance HSA/SPT rods, augers and casing below ground surface	40. Strain wrist/bruise palm 41. Pinched fingers 42. Back strain	18. Wear proper PPE (leather gloves) / Use proper technique for preparing rods / Use second person, if necessary 19. Wear proper PPE (leather gloves)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
123. Advance HSA/SPT rods, augers and casing below ground surface (cont'd)	43. Clothing entanglement 44. Carbon monoxide poisoning 45. Bruised/Broken toes/feet 46. High noise levels	20. Use proper lifting techniques / Obtain assistance if needed 21. Wear proper attire for HSA/SPT rig (no loose clothing, strings, etc.) 22. Stand upwind of the rig 23. Wear proper PPE (safety shoes) 24. Wear proper PPE (hearing protection)
124. Remove and open split spoon	28. Pinched fingers 29. Cuts/lacerations 30. Skin contact with contaminated soil and groundwater	1. Wear proper PPE (nitrile and leather gloves) 2. Wear proper PPE (leather gloves) 3. Wear proper PPE (nitrile gloves, safety glasses)
125. Repeat steps 3 and 4 until desired depth is reached	5. See steps 3 and 4	1. See steps 3 and 4
126. Remove HSA/SPT rods, augers and casing and place in storage rack	1. Clothing entanglement 2. Back strain 3. Pinched fingers 4. Carbon monoxide poisoning 5. High noise levels	1. Wear proper attire for HSA/SPT rig (no loose clothing, strings, etc.) 2. Use proper lifting techniques / Obtain assistance if needed 3. Wear proper PPE (leather gloves) 4. Stand upwind of rig engine 5. Wear proper PPE (hearing protection)
127. Tremie-grout borehole with a cement-bentonite grout mixture	1. Splash cement/bentonite grout on face/eyes 2. Back strain 3. Pinched fingers	1. Wear proper PPE (safety glasses) 2. Use proper lifting techniques / Obtain assistance if needed 3. Wear proper PPE (nitrile gloves, leather gloves)
128. Decontaminate equipment	1. Contact with potentially impacted material 2. Contact with sharp pieces of equipment	1. Wear proper PPE (safety glasses, nitrile gloves) 2. Wear proper PPE (leather gloves)
129. Patch soil boring location to return to pre-existing conditions (i.e. concrete, asphalt, grass)	1. Cuts/lacerations 2. Splashed concrete on face/eyes 3. Hammer fingers/hands when patching asphalt	1. Wear proper PPE (leather gloves) / Use scissors for cutting 2. Use proper PPE (safety glasses) 3. Be aware of hands/fingers during hammering / Wear proper PPE (leather gloves)
130. All activities	186. Slips/ Trips/ Falls 187. Hand injuries, cuts or lacerations during manual handling of materials 188. Foot injuries 189. Back injuries 190. Traffic 191. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 192. High Noise levels 193. Overhead hazards 194. Heat Stress/ Cold Stress 195. Eye Injuries	192. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 193. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 194. Wear Langan approved safety shoes 195. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 196. Wear high visibility clothing & vest / Use cones or signs to designate work area 197. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 198. Wear hearing protection 199. Wear hard hat / Avoid areas were overhead hazards exist.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		200. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 201. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

ATTACHMENT H

TAILGATE SAFETY BRIEFING FORM

LANGAN TAILGATE SAFETY BRIEFING

Date:_____ Time: _____

Leader:_____ Location:_____

Work Task:

_____

_____

SAFETY TOPICS (***provide some detail of discussion points***)

Chemical Exposure Hazards and Control:_____

_____

Physical Hazards and Control: _____

Air Monitoring: _____

PPE: _____

_____

Communications:_____

Safe Work Practices: _____

_____

Emergency Response: _____

Hospital/Medical Center Location: _____

Phone Nos.: _____

Other: _____

FOR FOLLOW-UP (the issues, responsibilities, due dates, etc.**)**

_____

_____

_____

ATTENDEES

PRINT NAME	COMPANY	SIGNATURE

E-12

Bally's Bronx
Remedial Action Work Plan for Ring Road
Prepared by: Langan Engineering

LANGAN

Taylor Huizenga

From: Brunner, Esther <EBrunner@cityhall.nyc.gov>
Sent: Thursday, June 5, 2025 5:01 PM
To: Brian Gochenaur; Taylor Huizenga; Max Stember-Young
Cc: Kozin, Jeremy; Laremont, Anita
Subject: FW: Bally's Bronx - 24DME011X

Brian, please see DEP's approval of the RAP and CHASP, in the email below. They will issue a formal approval letter next week.

ESTHER BRUNNER, AICP | Deputy Director

Cell: 917-940-1175

Mayor's Office of Environmental Coordination
100 Gold Street, 2nd Floor | New York, NY 10038
Office Direct: 212-788-6822 | Office Main: 212-788-6801
ebrunner@cityhall.nyc.gov | www.nyc.gov/oec

From: Yu, Wei <WeiY@dep.nyc.gov>
Sent: Thursday, June 5, 2025 4:59 PM
To: Brunner, Esther <EBrunner@cityhall.nyc.gov>
Cc: Weissbard, Ron <RWeissbard@dep.nyc.gov>; Estesen, Terrell <TerrellE@dep.nyc.gov>; Wimbish, Mitchell <MitchellW@dep.nyc.gov>; Humes, Emily (Parks) <Emily.Humes@parks.nyc.gov>
Subject: Bally's Bronx - 24DME011X

Esther,

DEP has reviewed and approved the May 2025 Remedial Action Plan (RAP) and the April 2025 Construction Health and Safety Plan (CHASP), prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. on behalf of Bally's New York Operating Company, LLC (applicant) for the above referenced project.

Please let us know if you have any questions.

Thanks,
Wei

Wei Yu | Deputy Director of Hazardous Materials | NYC Environmental Protection
Bureau of Sustainability
(o) (718) 595-4358 | weiy@dep.nyc.gov

REMEDIAL ACTION PLAN

for

PROPOSED BALLY'S CASINO - RING ROAD at FERRY POINT PARK Bronx, New York 10465

Prepared For:

Bally's Corporation
100 Westminster Street
Providence, Rhode Island 02903

Prepared By:

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
368 Ninth Avenue, 8th Floor
New York, New York 10001

May 27, 2025
Langan Project No. 170773001

LANGAN

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CERTIFICATION

I, Jason J. Hayes, am currently a registered professional engineer licensed by the State of New York. I performed professional engineering services and had primary direct responsibility for designing the remedial program for the approximately 9.61-acre, U-shaped section of Ferry Point Park referred to as "Ring Road" (the "site"). I certify under the appropriate standard of care to the following:

- I have reviewed this document to which my signature and seal are affixed.
- Engineering Controls developed for this remedial action were reviewed by me and were designed to achieve the goals established in this Remedial Action Plan (RAP) for this site.
- The Engineering Controls to be constructed during this remedial action are accurately reflected in the text and drawings of the RAP.
- This RAP has a plan for handling, transport and disposal of soil, fill, fluids and other materials removed from the property in accordance with applicable city, state, and federal laws and regulations. Considering the contractor strictly follows all plans and protocols outlined in the approved RAP, importation of all soil, fill and other materials from off-site, as required by this RAP, will be in accordance with all applicable city, state and federal laws and requirements. This RAP has provisions to control nuisances during the remediation and all invasive work, including dust and odor suppression.

Jason J. Hayes, PE
Name

089491
PE License Number

Signature

5/28/2025
Date

PE Stamp

STATE OF NEW YORK
JASON J. HAYES
089491
LICENSED PROFESSIONAL ENGINEER

5/29/2025

EXECUTIVE SUMMARY

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) prepared this Remedial Action Plan (RAP) on behalf of Bally's Corporation (Bally's) for a section of the Hutchinson River Parkway, referred to as Ring Road, located within Ferry Point Park, Bronx, New York (the "site"). The site is an approximately 9.61-acre, U-shaped section of Ferry Point Park, that primarily serves as a park thoroughfare and public recreation space and is identified on the New York City Bronx Borough Tax Map as part of Block 5622, Lot 1.

This RAP is consistent with New York City Department of Environmental Protection (NYCDEP) requirement for remediation. The RAP includes provisions for managing soil/fill in accordance with applicable federal, state, and local requirements, and guidelines for temporary on-site stockpiling and off-site transportation and disposal of soil/fill.

The site will be developed in cooperation with the NYCDEP, the Triborough Bridge and Tunnel Authority (TBTA), the New York City Department of Parks and Recreation (NYCDPR), and the New York City Department of Transportation (NYCDOT). Following completion of the proposed redevelopment, the right-of-way of Ring Road (about 4.1 acres) will be transferred to and under the jurisdiction of the NYCDOT, and the remaining 5.51 acres will remain under the jurisdiction of NYCDPR.

Site Location and Description

The site is an approximately 9.61-acre, U-shaped section of Ferry Point Park, that primarily serves as a park thoroughfare and public recreation space and is identified on the New York City Bronx Borough Tax Map as part of Block 5622, Lot 1. The site is bound by Schley Avenue, the Hutchinson River Parkway, and service roads to the north; Bally's Golf Links at Ferry Point golf course to the east; Ferry Point Park and the Bronx-Whitestone Bridge to the south; and Ferry Point Park to the west. Between the western and eastern legs of the U-shape formed by the site lies public parking areas for Ferry Point Park and the Bronx-Whitestone Bridge Metropolitan Transit Authority (MTA) Building.

The site is currently improved with an uninterrupted, circular roadway, referred to as Ring Road. Ring Road is a one-lane, one-way, asphalt-paved roadway and is bordered on either side by concrete curbing, metal guardrails, and grass shoulders. The remainder of the site includes vegetated areas and footpaths associated with Ferry Point Park. The section of Ring Road comprising the site totals about 1 mile in length.

The site is at an elevation of approximately 16 feet above mean sea level (msl) and slopes gently downward toward the west-southwest. The regional topography slopes downward toward the west-southwest and Westchester Creek, which is located approximately 320 feet west of the site. The site is located within an urban area characterized by multiple-story commercial, residential, and industrial buildings as well as parking lots and vacant land.

Site History

A review of historical records indicate that the site and adjacent areas were undeveloped and predominantly marsh- and swampland from the 1890s to the 1930s, and the majority of the area was part of Westchester Creek and the Baxter Creek Inlet (now the East River) before infilling and development of Ferry Point Park in the 1940s. By 1947, the site and surrounding area had been infilled to create new land, and Ring Road had been constructed. General improvements to the site were completed by 2015, and the site remains relatively unchanged through present-day.

Proposed Development

Improvements to the site, including the widening of Ring Road, are contemplated by Bally's as part of the proposed development of the associated gaming facility. The proposed NYCDOT site improvements total about 4.1 acres of the 9.61-acre site. The improvements will include a roadbed, a parking lane (along the western part of the site only), and sidewalks which will provide passive and active space to users of Ferry Point Park. In addition, a portion of the remaining 5.51 acres adjacent to the NYCDOT improvements will be developed into a bike/pedestrian lane with associated landscape improvements that will be operated by and under the jurisdiction of NYCDPR. Excavation depths to facilitate the redevelopment of Ring Road are expected to extend from 1 to 5 feet below grade surface (bgs).

Utility upgrades across the site will include removal and replacement of existing NYCDEP catch basins and hydrants, improvements to water and sanitary infrastructure, and replacement of asphalt and concrete pavement. An erosion and sediment control plan will be implemented that includes the following: a turbidity curtain, silt fencing, inlet protection, tree protection, and an inbound/outbound truck wash station at site ingresses and egresses. The proposed development will require excavation and disposal of soil/fill, reuse of soil/fill (as appropriate) and import of clean fill.

Previous Environmental Reports

Previous reports reviewed as part of RAP preparation include the following:

- September 12, 2025 Phase I Environmental Site Assessment (ESA) for Proposed Bally's Casino – Ring Road at Ferry Point Park, prepared by Langan
- April 22, 2025 Phase II Environmental Site Investigation (ESI) Report for Proposed Bally's Casino – Ring Road at Ferry Point Park, prepared by Langan

The Phase I ESA identified the current and historic use of adjoining and surrounding properties and the presence of non-native fill as recognized environmental conditions (REC) for the site. The historical adjoining and surrounding property uses included a municipal solid waste landfill (1950-1960s), a United Parcel Service (UPS) facility with petroleum and chemical bulk storage (1985 - present), and an MTA bridge support facility with petroleum bulk storage (1951 - present).

A Phase II ESI was conducted on the site in general accordance with the NYCDEP-approved Phase II ESI Work Plan prepared by Langan, dated October 4, 2024. The purpose of the Phase II ESI was to investigate the RECs identified in the Phase I ESA. The Phase II ESI was completed between February 25 and March 11, 2025. The following is a summary of the Phase II ESI findings and conclusions:

- Anomalies indicative of potential underground storage tanks (UST) were not identified during the geophysical survey.
- Non-native fill, generally consisting of brown to orangeish or grayish brown, fine-grained sand with varying amounts of fine sub-angular gravel, silt, clay, fibrous vegetation, coal, coal ash, glass, construction debris, metal, and wood, was identified throughout the site to depths ranging between 3 feet bgs to the borehole terminus at 8 feet bgs. Native soil was identified beneath the fill layer in 18 of the 42 soil borings and extended to the borehole terminus of 8 feet bgs. Native soil ranged from gray to dark gray clay with varying amounts of fine sand, fine subangular to subrounded gravel, and fibrous vegetation in the western and eastern parts of the site, and grayish brown to brown, fine-grained sand with varying amounts of clay, fine subangular to subrounded gravel, and fibrous vegetation in the southern part of the site.
- Volatile organic compounds (VOC), pesticides, herbicides, and polychlorinated biphenyls (PCB) were not identified in soil samples at concentrations exceeding the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Code, Rules and Regulations (NYCRR) Part 375 Restricted Use Restricted-Residential (RURR) Soil Cleanup Objectives (SCO). Perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) were not identified in soil samples above the NYSDEC Part 375 Remedial Programs Guidelines for Sampling and Analysis of PFAS RURR Guidance Values (date April 2023).
- SVOCs and metals were identified in non-native fill at concentrations exceeding RURR SCOs throughout the site. The highest concentrations of SVOCs were located at SB41 from the 0 to 2 feet bgs, and are likely related to former backfilling of Ferry Point Park and the eastern-adjoining Bally's Golf Links at Ferry Point golf course. These concentrations of SVOCs and metals are typically found in non-native fill throughout New York City and are not indicative of a release of hazardous materials.
- Groundwater was encountered in monitoring wells at depths ranging from about 3.5 to 6.7 feet bgs. Groundwater elevations and flow direction likely vary with tidal influence due to the site's proximity to the East River. Groundwater flow direction is generally expected to be to the west-southwest, towards Westchester Creek and the East River.
- SVOCs and dissolved metals (iron, magnesium, manganese, sodium, and thallium) were identified at concentrations exceeding the NYSDEC Division of Water Technical and

Operation Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values (SGV) for Class GA (drinking water)in groundwater. Iron, magnesium, manganese, sodium, and thallium are naturally-occurring compounds common in brackish groundwater along waterfront sites in New York City. SVOCs identified in groundwater samples above the NYSDEC SGVs are likely due to entrained sediment in the sample from non-native fill.

- PFOA and PFOS were identified at concentrations exceeding the NYSDEC SGVs in groundwater; however, an on-site source was not identified. The concentrations of PFOA and PFOS are generally higher in groundwater samples collected along the eastern part of the site and are consistent with concentrations found in New York City.

Proposed RAP Summary

The proposed remedy to be implemented during construction will include the following elements:

- Removal and disposal of concrete and asphalt cover. Asphalt and concrete must be managed and disposed in accordance with Part 360: Solid Waste Management Facility regulations.
- Excavation of soil and any miscellaneous debris ranging from 1 to 5 feet bgs (about elevation [el] 12 to el 3)[1] for improvements to and expansion of Ring Road
- Registering and removing unknown petroleum storage tanks, if encountered, in accordance with NYSDEC requirements
- Handling, transportation, and disposal of excavated fill and native overburden soil in accordance with NYSDEC regulations Part 360: Solid Waste Management Facilities and Part 364: Waste Transporter Permits, and other applicable local, state, and federal regulations
- Collection and analysis of confirmation samples of grossly impacted areas, if identified during excavation, as described in this RAP
- Importation and/or reuse of soil/fill in accordance with Title 6 of the New York Codes, Rules and Regulations [6 NYCRR] Part 360 and the NYSDEC Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10), dated May 2010, to facilitate construction of the expanded roadway and proposed sidewalk and to raise overall grade of the NYCDOT improvements to a working elevation ranging from about el 8 to el 13
- If necessary, local dewatering in compliance with city, state, and federal laws and regulations. Extracted groundwater will either be containerized for off-site disposal at a

[1] Elevations are referenced to the North American Vertical Datum of 1988 (NAVD88).

permitted facility or will be treated under a permit from NYCDEP to meet pretreatment requirements prior to discharge to the sewer system.

- Implementing a Community Air Monitoring Plan (CAMP) during all ground-intrusive activities.
- Capping the NYCDOT development area (about 4.1 acres) with impervious surface cover (e.g., concrete or asphalt). Other improvements to the site are planned outside the 4.1-acre area (i.e., bike lane and landscaping). Any pervious areas located within these improvements will be capped with a minimum of two feet of clean material (i.e., native crushed stone, soil, or topsoil meeting 6 NYCRR Part 360 and 6 NYCRR Part 375 RURR SCOs). The cap will serve as an engineering control (EC).

1.0 INTRODUCTION

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) prepared this Remedial Action Plan (RAP) on behalf of Bally's Corporation (Bally's) for a section of the Hutchinson River Parkway, referred to as Ring Road, located within Ferry Point Park, Bronx, New York (the "site"). The site is an approximately 9.61-acre, U-shaped section of Ferry Point Park, that primarily serves as a park thoroughfare and public recreation space and is identified on the New York City Bronx Borough Tax Map as part of Block 5622, Lot 1.

This RAP is consistent with New York City Department of Environmental Protection (NYCDEP) requirement for remediation. The RAP includes provisions for managing soil/fill in accordance with applicable federal, state, and local requirements, and guidelines for temporary on-site stockpiling and off-site transportation and disposal of soil/fill.

The site will be developed in cooperation with the NYCDEP, the Triborough Bridge and Tunnel Authority (TBTA), the New York City Department of Parks and Recreation (NYCDPR), and the New York City Department of Transportation (NYCDOT). Following completion of the proposed redevelopment, the right-of-way of Ring Road (about 4.1 acres) will be transferred to and under the jurisdiction of the NYCDOT, and the remaining 5.51 acres will remain under the jurisdiction of NYCDPR.

2.0 SITE BACKGROUND

2.1 Site Location and Description

The site is an approximately 9.61-acre, U-shaped section of Ferry Point Park, that primarily serves as a park thoroughfare and public recreation space and is identified on the New York City Bronx Borough Tax Map as part of Block 5622, Lot 1. The site is bound by Schley Avenue, the Hutchinson River Parkway, and service roads to the north; Bally's Golf Links at Ferry Point golf course to the east; Ferry Point Park and the Bronx-Whitestone Bridge to the south; and Ferry Point Park to the west. Between the western and eastern legs of the U-shape formed by the site lies public parking areas for Ferry Point Park and the Bronx-Whitestone Bridge Metropolitan Transit Authority (MTA) Building.

The site is currently improved with an uninterrupted, circular roadway, referred to as Ring Road. Ring Road is a one-lane, one-way, asphalt-paved roadway and is bordered on either side by concrete curbing, metal guardrails, and grass shoulders. The remainder of the site includes vegetated areas and footpaths associated with Ferry Point Park. The section of Ring Road comprising the site totals about 1 mile in length.

The site is at an elevation of approximately 16 feet above mean sea level (msl) and slopes gently downward toward the west-southwest. The regional topography slopes downward toward the west-southwest and Westchester Creek, which is located approximately 320 feet west of the site. The site is located within an urban area characterized by multiple-story commercial, residential, and industrial buildings as well as parking lots and vacant land. A site location map is provided as Figure 1 and a site plan is included as Figure 2.

2.2 Site History

A review of historical records indicate that the site and adjacent areas were undeveloped and predominantly marsh- and swampland from the 1890s to the 1930s, and the majority of the area was part of Westchester Creek and the Baxter Creek Inlet (now the East River) before infilling and development of Ferry Point Park in the 1940s. By 1947, the site and surrounding area had been infilled to create new land, and Ring Road had been constructed. General improvements to the site were completed by 2015, and the site remains relatively unchanged through present-day.

2.3 Proposed Development

Improvements to the site, including the widening of Ring Road, are contemplated by Bally's as part of the proposed development of the associated gaming facility. The proposed NYCDOT site improvements total about 4.1 acres of the 9.61-acre site. The improvements will include a roadbed, a parking lane (along the western part of the site only), and sidewalks which will provide passive and active space to users of Ferry Point Park. In addition, a portion of the remaining 5.51

acres adjacent to the NYCDOT improvements will be developed into a bike/pedestrian lane with associated landscape improvements that will be operated by and under the jurisdiction of NYCDPR. Excavation depths to facilitate the redevelopment of Ring Road are expected to extend from 1 to 5 feet below grade surface (bgs).

Utility upgrades across the site will include removal and replacement of existing NYCDEP catch basins and hydrants, improvements to water and sanitary infrastructure, and replacement of asphalt and concrete pavement. An erosion and sediment control plan will be implemented that includes the following: a turbidity curtain, silt fencing, inlet protection, tree protection, and an inbound/outbound truck wash station at site ingresses and egresses.

The proposed development will require excavation and disposal of soil/fill, reuse of soil/fill (as appropriate) and import of clean fill. The conceptual development drawings are provided in Appendix A, and the approximate excavation extents are shown on Figure 3.

3.0 PREVIOUS ENVIRONMENTAL REPORTS

The following environmental reports were reviewed as part of RAP preparation:

- September 12, 2025 Phase I Environmental Site Assessment (ESA) for Proposed Bally's Casino – Ring Road at Ferry Point Park, prepared by Langan
- April 22, 2025 Phase II Environmental Site Investigation (ESI) Report for Proposed Bally's Casino – Ring Road at Ferry Point Park, prepared by Langan

These reports are summarized in the following subsections and provided in Appendix B.

3.1 Phase I ESA Summary

The Phase I ESA identified the following recognized environmental conditions (REC):

<u>REC 1 – Current and Historical Use of the Adjoining and Surrounding Properties:</u>

Historical adjoining and surrounding property use includes a municipal solid waste landfill (1950-1960s), a United Parcel Service (UPS) facility with petroleum and chemical bulk storage (1985 - present), and a Metropolitan Transportation Authority (MTA) bridge support facility with petroleum bulk storage (1951 - present). Documented and undocumented spills or releases of petroleum products or hazardous substances associated with these properties may have adversely affected groundwater and/or soil vapor on the site.

<u>REC 2 – Non-native Fill</u>

Non-native fill is expected to underly the site above native soil. Non-native fill in New York City may contain contaminants, particularly metals and semi-volatile organic compounds (SVOCs), at concentrations that exceed applicable state and/or federal standards. Non-native fill does not trigger a regulatory reporting requirement, but may require implementation of special soil handling, management, and off-site disposal procedures if disturbed during development of the site.

3.2 Phase II ESI Report Summary

A Phase II ESI was conducted in general accordance with the NYCDEP-approved Phase II ESI Work Plan prepared by Langan, dated October 4, 2024. The purpose of the Phase II ESI was to investigate the RECs identified in the Phase I ESA. The Phase II ESI was completed between February 25 and March 11, 2025 and included included completion of a geophysical survey, advancement of 42 environmental soil borings, installation of 10 temporary groundwater monitoring wells, and collection and laboratory analysis of 84 soil and 10 groundwater samples. Additional samples were also collected and analyzed for quality assurance/quality control (QA/QC) purposes.

Sample Analysis and Regulatory Comparison

Soil sample analytical results were compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 New York Codes, Rules and Regulations (NYCRR) Part 375 Restricted Use Restricted Residential (RURR) Soil Cleanup Objectives (SCO) and were analyzed for Target Compound List (TCL) volatile organic compounds (VOC) by United State Environmental Protection Agency (USEPA) method 8260, semivolatile organic compounds (SVOC) (including 1,4-dioxane) by USEPA method 8270, pesticides and herbicides by USEPA method 8081, polychlorinated biphenyls (PCB) by USEPA method 8082, and Target Analyte List (TAL) metals (including hexavalent and trivalent chromium) and total cyanide by USEPA methods 6010, 7471, 7196, and 9010. One soil sample from each temporary monitoring well location was also analyzed for NYSDEC-List per- and polyfluoroalkyl substances (PFAS) by USEPA method 1633.

Groundwater sample results were compared to NYSDEC's Technical and Operation Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values (SGV) for class GA (drinking water) and were analyzed for TCL VOCs by USEPA method 8260, TCL SVOCs by USEPA method 8270, pesticides and herbicides by USEPA method 8081, PCBs by USEPA method 8082, total and dissolved (field filtered) metals by USEPA methods 6010, 6020, and 7471, hexavalent and trivalent chromium by USEPA method 7196, total cyanide by method SM 4500, 1,4-dioxane by USEPA method 8270 SIM, and NYSDEC-List PFAS by USEPA Method 1633.

Findings and Conclusions

The following is a summary of the Phase II ESI findings and conclusions:

- Anomalies indicative of potential underground storage tanks (UST) were not identified during the geophysical survey.
- Non-native fill, generally consisting of brown to orangeish or grayish brown, fine-grained sand with varying amounts of fine sub-angular gravel, silt, clay, fibrous vegetation, coal, coal ash, glass, construction debris, metal, and wood, was identified throughout the site to depths ranging between 3 feet bgs to the borehole terminus at 8 feet bgs. Native soil was identified beneath the fill layer in 18 of the 42 soil borings and extended to the borehole terminus of 8 feet bgs. Native soil ranged from gray to dark gray clay with varying amounts of fine sand, fine subangular to subrounded gravel, and fibrous vegetation in the western and eastern parts of the site, and grayish brown to brown, fine-grained sand with varying amounts of clay, fine subangular to subrounded gravel, and fibrous vegetation in the southern part of the site.
- VOCs, pesticides, herbicides, and PCBs were not identified in soil samples at concentrations exceeding the RURR SCOs. Perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) were not identified in soil samples above the

NYSDEC Part 375 Remedial Programs Guidelines for Sampling and Analysis of PFAS RURR Guidance Values (date April 2023).

- SVOCs and metals were identified in non-native fill at concentrations exceeding RURR SCOs throughout the site. The highest concentrations of SVOCs were located at SB41 from the 0 to 2 feet bgs, and are likely related to former backfilling of Ferry Point Park and the eastern-adjoining Bally's Golf Links at Ferry Point golf course. These concentrations of SVOCs and metals are typically found in non-native fill throughout New York City and are not indicative of a release of hazardous materials.
- Groundwater was encountered in monitoring wells at depths ranging from about 3.5 to 6.7 feet bgs. Groundwater elevations and flow direction likely vary with tidal influence due to the site's proximity to the East River. Groundwater flow direction is generally expected to be to the west-southwest, towards Westchester Creek and the East River.
- SVOCs and dissolved metals (iron, magnesium, manganese, sodium, and thallium) were identified at concentrations exceeding the NYSDEC SGVs in groundwater. Iron, magnesium, manganese, sodium, and thallium are naturally-occurring compounds common in brackish groundwater along waterfront sites in New York City. SVOCs identified in groundwater samples above the NYSDEC SGVs are likely due to entrained sediment in the sample from non-native fill.
- PFOA and PFOS were identified at concentrations exceeding the NYSDEC SGVs in groundwater; however, an on-site source was not identified. The concentrations of PFOA and PFOS are generally higher in groundwater samples collected along the eastern part of the site and are consistent with concentrations found in New York City.

4.0 SOIL CHARACTERIZATION

Prior to any on-site soil disturbance for site remediation (see Section 5.0), soil proposed for excavation and/or reuse will be appropriately characterized in a manner that will satisfy the requirements of potential receiving facilities, and in compliance with applicable laws and regulations.

Soil requiring characterization will be screened for visual, olfactory and instrumental (i.e., photoionization detector [PID]) evidence of impacts in accordance with this RAP. Soil will be sampled by field personnel (under the supervision of a Professional Engineer (PE) or Qualified Environmental Professional [QEP]) at a rate of one grab sample and one five-point composite sample (a sample set) for about each 800 cubic yards of soil, plus QA/QC samples if needed. Grab samples will be analyzed for 6 NYCRR Part 375 TCL VOCs and Extractable Petroleum Hydrocarbons (EPH). Composite samples will be analyzed for 6 NYCRR Part 375 TCL SVOCs, PCBs, pesticides, herbicides, TAL metals including trivalent and hexavalent chromium, total cyanide, Resource Conservation and Recovery Act (RCRA) Characteristics, and Toxicity Characteristic Leaching Procedure (TCLP) RCRA 8 metals. For each characterization event, one composite sample will also be analyzed for TCLP VOCs, TCLP SVOCs, TLCP pesticides, TCLP herbicides, and paint filter. The samples will be submitted to an New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-accredited laboratory under standard chain of custody protocols. Waste characterization sampling and analytical methods, sampling frequency, analytical results and QA/QC sample results will be reported to NYCDEP.

Although not expected, if hazardous wastes are encountered, proper handling, transportation, and disposal will occur in compliance with applicable laws and regulations. Soil stockpiled for characterization will be managed as defined in Section 5.2.2. Soil proposed for reuse on-site will be managed as defined in Section 5.2.10.

5.0 PROPOSED SITE REMEDIATION

This section describes remedial actions to achieve the site's Remedial Action Objectives (RAO). Remediation will be performed concurrently with construction. This plan includes appropriate actions to protect human health and the environment, and highlights the provisions necessary to protect against contact with impacted material at the site. Remediation will be performed in accordance with applicable federal, state, and city regulations and the Construction Health and Safety Plan (CHASP), which is included as Appendix C. The CHASP addresses potential worker and community exposure issues in relation to identified and reasonably anticipated contaminants during remedial activities. NYCDEP will be notified one week prior to commencing remediation.

The proposed remedy to be implemented during construction will include the following elements:

- Removal and disposal of concrete and asphalt cover. Asphalt and concrete must be managed and disposed in accordance with Part 360: Solid Waste Management Facility regulations.
- Excavation of soil and any miscellaneous debris ranging from 1 to 5 feet bgs (about elevation [el] 12 to el 3)[2] for improvements to and expansion of Ring Road
- Registering and removing unknown petroleum storage tanks, if encountered, in accordance with NYSDEC requirements
- Handling, transportation, and disposal of excavated fill and native overburden soil in accordance with NYSDEC regulations Part 360: Solid Waste Management Facilities and Part 364: Waste Transporter Permits, and other applicable local, state, and federal regulations
- Collection and analysis of confirmation samples of grossly impacted areas, if identified during excavation, as described in this RAP
- Importation and/or reuse of soil/fill in accordance with Title 6 of the New York Codes, Rules and Regulations [6 NYCRR] Part 360 and the NYSDEC Division of Environmental Remediation (DER) Technical Guidance for Site Investigation and Remediation (DER-10), dated May 2010, to facilitate construction of the expanded roadway and proposed sidewalk and to raise overall grade of the NYCDOT improvements to a working elevation ranging from about el 8 to el 13
- If necessary, local dewatering in compliance with city, state, and federal laws and regulations. Extracted groundwater will either be containerized for off-site disposal at a permitted facility or will be treated under a permit from NYCDEP to meet pretreatment requirements prior to discharge to the sewer system.
- Implementing a Community Air Monitoring Plan (CAMP) during all ground-intrusive activities.
- Capping the NYCDOT development area (about 4.1 acres) with impervious surface cover (e.g., concrete or asphalt). Other improvements to the site are planned outside the 4.1-acre area (i.e., bike lane and landscaping). Any pervious areas located within these improvements will be capped with a minimum of two feet of clean material (i.e., native crushed stone, soil, or topsoil meeting 6 NYCRR Part 360 and 6 NYCRR Part 375 RURR SCOs). The cap will serve as an engineering control (EC).

[2] Elevations are referenced to the North American Vertical Datum of 1988 (NAVD88).

5.1 Remedial Action Objectives

RAOs have been established through the remedy selection process stated in DER-10. At a minimum, the remedy selected must mitigate all significant threats to public health and/or the environment presented by SVOCs, metals, and PFAS impacts at the site through the proper application of scientific and engineering principles. The remediation goal for this site is to reduce, to the extent practicable, site soil contamination, through removal and mitigate subsequent exposure to soil and groundwater through long-term engineering controls.

5.2 Remedial Activities

5.2.1 Soil Excavation and Removal

The proposed site excavations are anticipated to extend from about 1to 5 feet bgs (corresponding to about el 12 to el 3) for the NYCDOT roadway improvements. Excavation of about 40,000 cubic yards of non-native fill and construction and demolition (C&D) debris will be required to allow for installation of the expanded roadway and proposed sidewalk. Excavated soil will be reused as backfill to the extent possible and in accordance with the project requirements described in Section 4.2.10. Should excavated soil not meet the project reuse requirements (Section 4.2.10), clean fill will be imported following excavation to facilitate construction of the expanded roadway and proposed sidewalk and to raise overall site grade to a working elevation ranging from about el 8 to el 13. Excavated fill and soil would be managed, transported, and disposed of as a regulated solid waste. Waste haulers will be 6 NYCRR Part 364-permitted, as needed, and appropriately placarded per New York State Department of Transportation (NYSDOT) requirements. Should petroleum-impacted soil be observed at or below the proposed excavation depth, additional excavation will be completed to remove the impacted soil to the extent practicable.

Existing soil analytical data will be submitted to proposed disposal facilities to assist in meeting disposal facility analytical requirements for material acceptance. Prior to remediation, waste characterization sampling will be performed as defined in Section 4.0 for off-site disposal in a manner suitable to the receiving facility and in conformance with applicable permits. Soil removal operations will be conducted in accordance with 6 NYCRR Part 360: Solid Waste Facilities and Part 364: Waste Transporter Permits.

Field personnel (under the supervision of a PE or QEP) will observe and document the excavation and load-out of regulated fill and soil. Prior to loading dump trucks, field personnel will field screen excavated soil for evidence of environmental impacts and document that waste types are segregated as necessary. Once each container, dump truck, or trailer loading is complete, the material will be transported off-site to permitted or registered disposal and/or recycling facilities. Where required, transport of materials will be performed by licensed haulers under appropriate regulatory permits (6 NYCRR Part 364 Waste Transporter Permits in New York State) and in

accordance with appropriate local, state, and federal regulations. Loaded vehicles leaving the site will be appropriately lined, securely covered, manifested, and placarded in accordance with applicable transportation requirements. Egress points for truck and equipment transport from the site will be cleaned of dirt and other materials during site remediation and development, as required.

5.2.2 Soil Stockpiling

If necessary, stockpile areas will be constructed for staging of fill and soil, pending loading, or characterization testing. Separate stockpile areas will be constructed to avoid commingling of different material types. Stockpile areas will meet the following minimum requirements:

- Soil will be placed onto a minimum 8-mil-thick layer of a polyethylene sheeting or equivalent to protect surface soil
- Different material types will be stockpiled separately and will not be commingled
- Stockpiles will be covered with 8-mil sheeting, which will be securely anchored to the ground or floor surface, upon reaching capacity. Stockpiles will not exceed 500 cubic yards. Active stockpiles that have not reached their capacity will be covered at the end of each work day.
- Each stockpile area will be encircled with silt fences and hay bales, as needed, to contain and filter particulates from rainwater that has drained off the soil, and to mitigate the potential for surface water infiltration
- The stockpile areas will be inspected daily and noted deficiencies, including broken sheeting covers, will be promptly addressed

5.2.3 Miscellaneous Debris and Liquids Removal

Miscellaneous debris will be removed and disposed or recycled, as per applicable federal, state, and local regulations. Containers of liquids will be characterized, removed, and disposed at permitted landfills, disposal facilities or recycling facilities.

5.2.4 Underground Storage Tanks

There were no USTs identified during the Phase II ESI. If encountered during excavation, USTs will be decommissioned and removed in accordance with NYSDEC UST closure requirements. The NYSDEC Petroleum Bulk Storage (PBS) registration forms will be completed as required. In addition to the waste characterization testing required by the disposal facility, the contents of any USTs will be tested for fingerprint analysis as well as full characterization testing for disposal, if appropriate. Following removal of the UST, the tank and surrounding soil will be inspected and screened for evidence of a release. Endpoint soil samples will be collected in accordance with the protocols provided in DER-10.

5.2.5 Grossly Impacted Soil

If observed, grossly impacted soil (e.g., petroleum) will be segregated and characterized prior to off-site disposal in accordance with stockpiling procedures. Grossly impacted soil within the development excavation will be excavated to the extent practicable and, following characterization, will be disposed of at an appropriate facility. Confirmation soil samples will be collected per NYSDEC Commissioner Policy 51 (CP-51) and NYSDEC DER-10. If grossly impacted soil is identified, a spill will be reported to the NYSDEC.

5.2.6 Confirmation Soil Sampling

Following removal of grossly impacted soil (if observed), per NYSDEC DER-10, confirmation soil samples will be collected from the excavation base at a frequency of one per 900 square feet. Sidewall samples will be collected at a frequency of one per 30 linear feet of sidewall. Confirmation samples will be analyzed for CP-51 VOCs and SVOCs.

New York State ELAP-certified labs will be used for all confirmation sample analyses. Labs performing confirmation sample analyses will be reported in the Remedial Closure Report (RCR). The RCR will provide a summary of all confirmation sample results and will include all data including applicable standards and/or guidance values.

5.2.7 Groundwater Management

Although unlikely, local dewatering may be required to provide a satisfactory working surface for construction or if excavation of deeper elements is required.

If necessary, the contractor's dewatering engineer would design the dewatering system to properly support excavation to the required development depths. Disposal of dewatering effluent will be performed in accordance with all applicable local and federal regulations. The contractor may elect to containerize the extracted groundwater for characterization and off-site disposal at a permitted facility, or obtain an appropriate permit (e.g., NYCDEP Groundwater Discharge Permit) to discharge to the sanitary sewer. Pre-treatment of extracted groundwater may be required by NYCDEP.

5.2.8 Odor and Dust Control

<u>Odor Control</u>

Although not anticipated, all necessary means will be employed to prevent on- and off-site odor nuisances. At a minimum, procedures will include: (a) limiting the area of open excavations; (b) shrouding open excavations with tarps and other covers; and (c) use of foam to cover exposed odorous soil. If odors develop and cannot otherwise be controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soil to trucks for off-site disposal; and (e) use of chemical odorants in spray or misting systems.

This odor control plan is capable of controlling emissions of nuisance odors. If nuisance odors are identified, work will be halted and the source of odors will be identified and corrected. Work will not resume until nuisance odors have been abated.

Dust Control

Dust management during invasive on-site work will include, at a minimum:

- Use of a dedicated water spray methodology for excavation areas and stockpiles
- Use of properly anchored tarps to cover stockpiles
- Exercise extra care during dry and high-wind periods
- Use of gravel or recycled concrete aggregate (RCA) on egress and other roadways to provide a clean and dust-free road surface

This dust control plan is capable of controlling emissions of dust. If nuisance dust emissions are identified, work will be halted and the source of dust will be identified and corrected. Work will not resume until all nuisance dust emissions have been abated.

5.2.9 Community Air Monitoring Plan

Community air monitoring will be performed during excavation, handling and load-out of regulated fill and soil with exceedances of the SCOs. Observations of dust generation will trigger additional dust control measures to mitigate dust conditions. Preventative measures for dust generation will include wetting surfaces, construction of an engineered site entrance, truck wash area(s), covering potentially contaminated soil stockpiles, and limiting site vehicle speeds. Organic vapors and particulate matter will be monitored at two air monitoring stations (one upwind and one downwind) during excavation activities in soil with SCO exceedances in accordance with the CHASP and the NYSDOH Generic CAMP.

VOC monitoring with a PID or equivalent real-time field instrumentation that will meet, at a minimum, the performance standards from DER-10 Appendix 1B, is required to monitor the site perimeter during excavation, handling, and load-out of soil. The following actions will be taken based on VOC levels measured:

- If total VOC levels exceed 5 parts per million (ppm) above background for the 15-minute average at the perimeter, work activities will be temporarily halted and monitoring continued. If levels readily decrease (per instantaneous readings) below 5 ppm above background, work activities will resume with continued monitoring.
- If total VOC levels at the downwind perimeter of the hot zone persist at levels in excess of 5 ppm above background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities will resume provided that the total organic vapor level 200 feet downwind of the hot zone or half the distance to the nearest potential

receptor or residential/commercial structure, whichever is less – but in no case less than 20 feet, is below 5 ppm above background for the 15-minute average.

- If the total VOC level is above 25 ppm at the perimeter of the hot zone, activities will be shut down.

Dust and particulate monitoring with real-time field instrumentation that will meet, at a minimum, the performance standards from DER-10 Appendix 1B, is required at the site perimeter during excavation, handling, and load-out of fill and soil. The following actions will be taken based on instrumentation measurements:

- If the downwind particulate level is 100 micrograms per cubic meter (μg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression must be employed. Work may continue with dust suppression techniques provided that downwind particulate matter less than 10 micrometers in diameter (PM10) levels do not exceed 150 μg/m^3 above the background level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM10 levels are greater than 150 μg/m^3 above the background level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM10 concentration to within 150 μg/m^3 of the upwind level and in preventing visible dust migration.

All readings will be recorded and be available for NYCDEP personnel to review.

5.2.10 On-Site Reuse of Soil/Fill

If on-site reuse of soil/fill is considered, soil/fill would need to meet the lower of the PGW and RURR SCOs (see DER-10 5.4(e)4). Soil will not be reused at the site without prior approval from NYCDEP. Field personnel (under the supervision of a PE or QEP) will observe and document on-site reuse of soil/fill, if applicable. Soil to be disposed of off-site will be characterized in accordance with the needs of the permitted or registered facility. If disposal of soil/fill from this site is proposed for unregulated disposal (i.e., clean soil removed for development purposes), a formal request with an associated plan will be made to NYCDEP's Project Manager. Material that does not meet RURR SCOs is prohibited from being taken to a New York State recycling facility (6 NYCRR Part 360-16 Registration Facility).

5.2.11 Site Cap and Import Material

<u>Site Cap</u>

Improvements to the site, including the widening of Ring Road, are contemplated by Bally's as part of the proposed development of the associated gaming facility. The proposed NYCDOT site

improvements total about 4.1 acres of the 9.61-acre site, and will include a site cover consisting of concrete/paved sidewalks and/or asphalt paved road which will act as an EC for the site. Other improvements to the site are planned outside the 4.1-acre area (i.e., bike lane and landscaping) and will be operated and maintained by NYCDPR. Impervious improvements such as the bike lane will include a site cover consisting concrete and/or asphalt. Pervious improvements (i.e. landscaping) will include a site cover consisting of a minimum of two feet of NYCDEP-approved clean material (i.e., soil meeing the lower of the Part 375 RURR and PGW SCOs), which will serve as the cap. Field personnel (under the supervision of a PE or QEP) will observe and document import and placement activities, if applicable. Material to be used as part of the pervious site cap (top two feet) must be imported from an approved facility/source and graded across all landscaped/grass covered areas of the site not capped with concrete/asphalt. The clean material must be segregated at the source/facility and have qualified environmental personnel collect representative samples at a frequency of one sample for every 250 cubic yards. Samples will be analyzed for TCL VOCs by USEPA method 8260, SVOCs by USEPA method 8270, pesticides by USEPA method 8081, PCBs by USEPA method 8082, and TAL metals by a NYSDOH ELAP-certified laboratory and compared to the lower of the NYSDEC 6 NYCRR Part 375 RURR or PGW SCOs. A demarcation barrier (e.g., geosynthetic fencing or equivalent material) will be placed at the top of existing fill/soil prior to placement of clean fill to provide an observable reference layer.

Upon completion of soil sampling, a detailed clean soil report will be submitted to the NYCDEP for review and approval prior to importation and placement on-site. The report will include, at a minimum, an executive summary, narrative of the field activities, laboratory data, and comparison of soil analytical results to the Part 375 RURR and PGW SCOs. A site cover system plan is provided as Figure 4.

General Backfill Beneath Cover

In developed areas, general backfill beneath the concrete/asphalt or 2 foot minimum site cover that is imported to the site will comply with 6 NYCRR Part 360, meet the lower of 6 NYCRR Part 375 RURR and PGW SCOs, be free of organic, frozen, and other deleterious material, and will have a maximum particle size no greater than 4 inches. Material excavated from within the site during construction will be reused provided impacts are not observed, rock fragments greater than 4 inches and deleterious material are removed, and reuse complies with 6 NYCRR Part 360. All backfill and/or reuse activities will be observed and documented by field personnel under the supervision of a PE or QEP.

RCA imported to the site is acceptable as backfill and will be from facilities permitted or registered by NYSDEC, provided that its use complies with 6 NYCRR Part 360. The contractor is responsible to ensure that the facility is compliant with 6 NYCRR Part 360 registration and permitting requirements for the period of acquisition of RCA. RCA material is not acceptable for, and will not be used as cover material or beneath the groundwater table. RCA imported to the site must

be derived from recognizable and uncontaminated concrete, contain no deleterious debris, and contain no more than 5% by weight asphalt or brick.

Source Screening and Testing

Field personnel (under the supervision of a PE or QEP) will inspect imported fill material, which will include visual and olfactory screening for evidence of contamination. Materials imported to the site will be subject to inspection, as follows:

- Trucks with imported fill material will be in compliance with applicable laws and regulations and will enter the site at designated locations
- The contractor is responsible to ensure that every truckload of imported material is inspected for evidence of contamination
- Fill material will be free of solid waste including pavement materials, debris, stumps, roots, and other organic matter, as well as ashes, oil, perishables or foreign matter

Imported fill will be sampled in accordance with Table 5.4(e)10 of NYSDEC DER-10. The samples will be analyzed for the following: 6 NYCRR Part 375 list TCL VOCs per USEPA method 8260, TCL SVOCs per USEPA method 8270, PCBs per USEPA method 8082, pesticides per USEPA method 8081, and TAL metals per USEPA method 6010/7000 series. The results will be compared to applicable 6 NYCRR Part 360 criteria and Part 375 RURR and PGW SCOs.

Virgin gravel, rock or stone from a permitted mine or quarry is excluded from analytical testing requirements if it contains less than 10% by weight of material that passes through a No. 80 sieve. RCA imported from compliant facilities will not require chemical testing if it contains less than 10% by weight of material that passes through a No. 80 sieve, unless required by NYSDEC under its terms for operation of the facility. RCA must conform to Section 304 of the NYSDOT Standard Specifications Construction and Materials Volume 1 (2002). All documentation for the imported materials (including results from chemical quality testing, if required) will be included in the RCR.

5.3 Remedial Closure Report (RCR)

Upon completion of the remediation, the owner will provide the NYCDEP with an RCR prepared by a New York State Registered PE. The RCR will include a description of the remediation, photographs of remedial activities, sample data collected during remedy implementation (if applicable), soil disposal records, account of the origin and required chemical quality testing for soil/fill imported onto the site (if applicable), a drawing showing the extent of excavation, and documentation of the site cover system including as-built drawings.

The RCR will also include a description of the ECs and institutional controls (IC) for the site, which may be required to commit the property owner and/or controlling agencies to maintaining the site. A Memorandum of Understanding (MOU) or similar IC may be required for any pervious

developed areas in the remaining 5.51 acres that will be operated by NYCDPR. If required, the ECs and ICs will be managed under a general Site Management Plan (SMP), which will describe the procedures for post-development maintenance and reporting of the ECs/ICs and will provide the required responsibilities of the property owner/controlling agencies. If required, the SMP will be provided as an attachment to the RCR. The PE-certified RCR will indicate that all remedial requirements have been implemented and document deviations where appropriate.

Figures

Notes:
1. Flushing, NY USGS Quadrangle Map
Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online
Copyright: © 2013 National Geographic Society, i-cubed.
WARNING: It is a violation of the NYS Education Law Article 145 for any person, unless he is acting under the direction of a licensed professional engineer, to alter this item in any way.

Legend

Approximate Site Boundary

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Project
PROPOSED BALLY'S CASINO - RING ROAD AT FERRY POINT PARK
BRONX NEW YORK

Figure Title
SITE LOCATION MAP

Project No.	Date	Scale	Drawn By	Figure
170773001	4/16/2025	1" = 2,000 feet	MG	1

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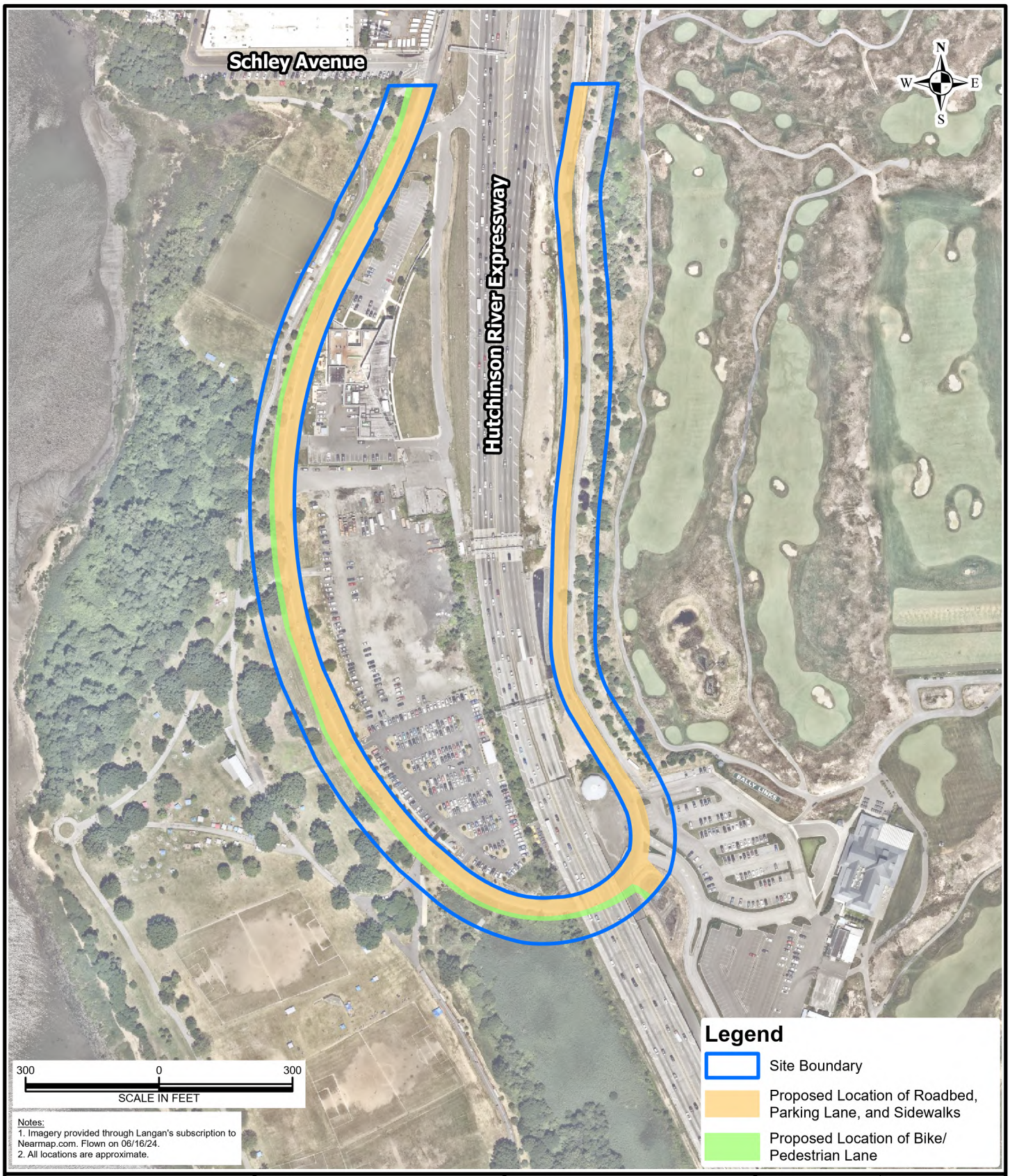

Notes:
1. Imagery provided through Langan's subscription to Nearmap.com. Flown on 06/16/24.
2. All locations are approximate.

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Project
PROPOSED BALLY'S CASINO - RING ROAD AT FERRY POINT PARK
BRONX NEW YORK

Figure Title
SITE PLAN

Project No.	170773001
Date	5/8/2025
Scale	1" = 300 feet
Drawn By	CH
Figure	2

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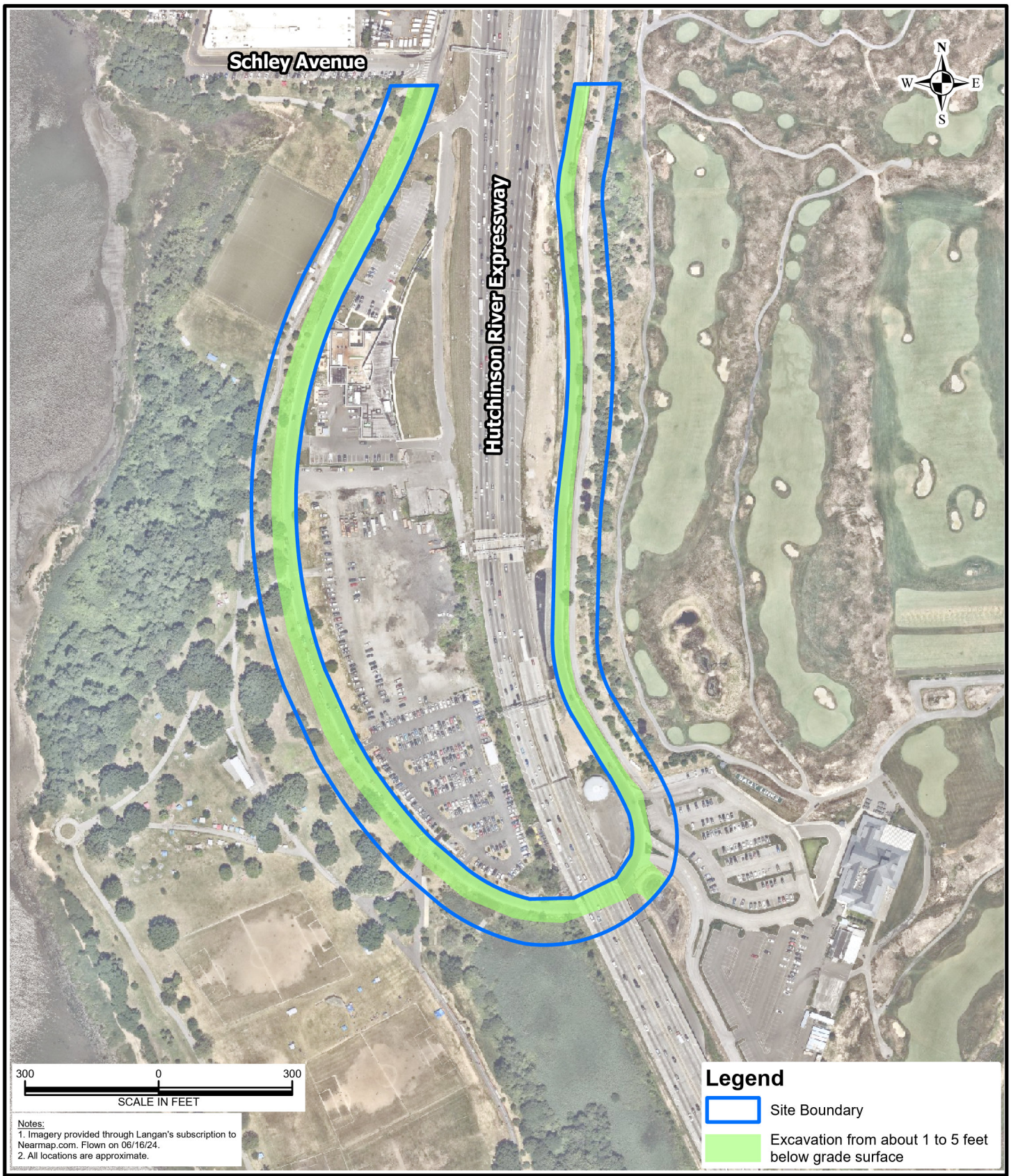

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2. All locations are approximate.

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Project
PROPOSED BALLY'S CASINO - RING ROAD AT FERRY POINT PARK
BRONX NEW YORK

Figure Title
PROPOSED EXCAVATION AREA MAP

Project No.	170773001
Date	5/1/2025
Scale	1" = 300 feet
Drawn By	CH
Figure	3

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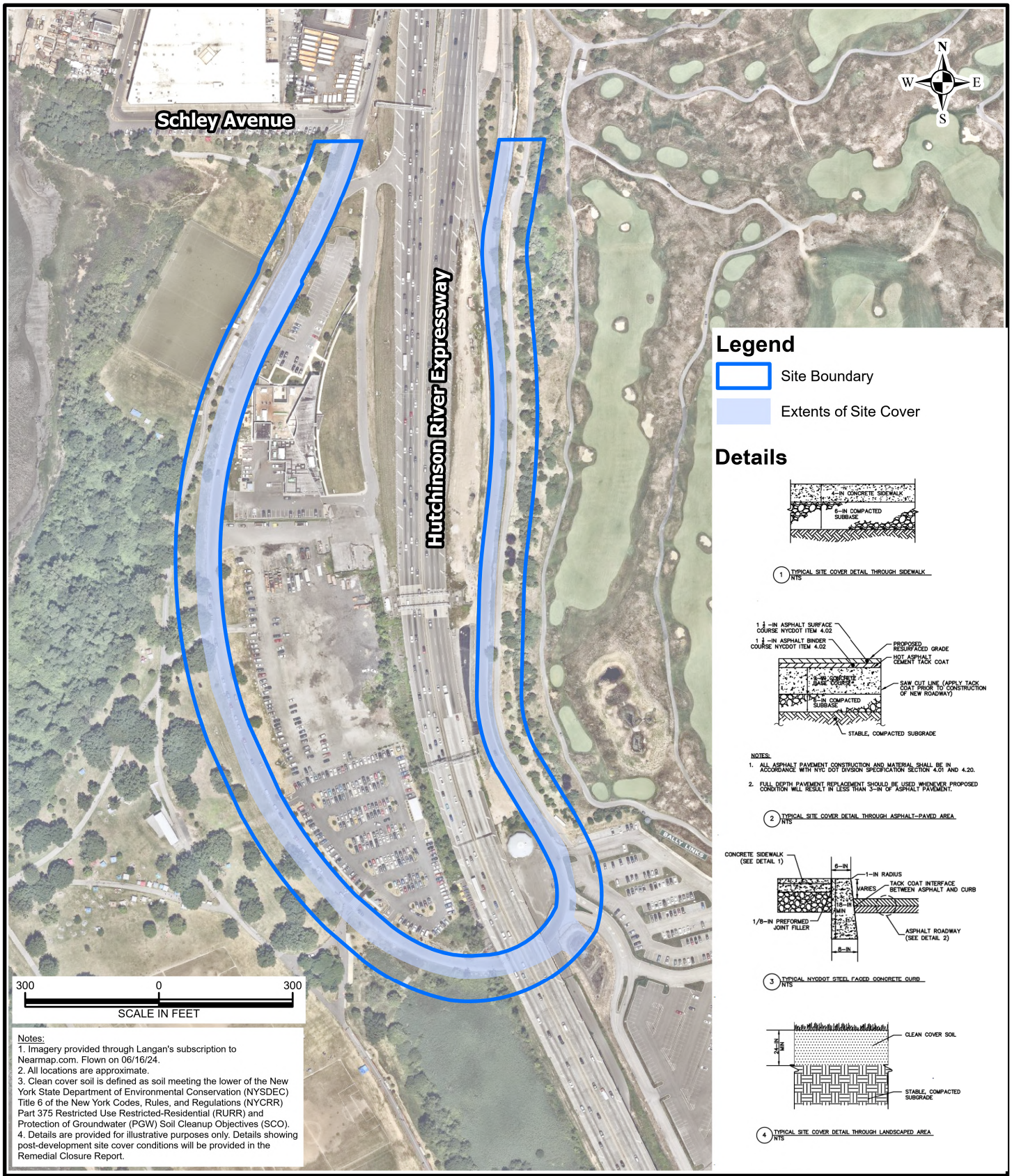

Notes:
1. Imagery provided through Langan's subscription to Nearmap.com. Flown on 06/16/24.
2. All locations are approximate.
3. Clean cover soil is defined as soil meeting the lower of the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the New York Codes, Rules, and Regulations (NYCRR) Part 375 Restricted Use Restricted-Residential (RURR) and Protection of Groundwater (PGW) Soil Cleanup Objectives (SCO).
4. Details are provided for illustrative purposes only. Details showing post-development site cover conditions will be provided in the Remedial Closure Report.

Legend

Site Boundary

Extents of Site Cover

Details

1 TYPICAL SITE COVER DETAIL THROUGH SIDEWALK
NTS

NOTES:
1. ALL ASPHALT PAVEMENT CONSTRUCTION AND MATERIAL SHALL BE IN ACCORDANCE WITH NYC DOT DIVISION SPECIFICATION SECTION 4.01 AND 4.20.
2. FULL DEPTH PAVEMENT REPLACEMENT SHOULD BE USED WHENEVER PROPOSED CONDITION WILL RESULT IN LESS THAN 3-IN OF ASPHALT PAVEMENT.

2 TYPICAL SITE COVER DETAIL THROUGH ASPHALT-PAVED AREA
NTS

3 TYPICAL NYCDOT STEEL FACED CONCRETE CURB
NTS

4 TYPICAL SITE COVER DETAIL THROUGH LANDSCAPED AREA
NTS

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Project
PROPOSED BALLY'S CASINO - RING ROAD AT FERRY POINT PARK
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Figure Title
SITE COVER SYSTEM PLAN

Project No.	170773001
Date	5/8/2025
Scale	1" = 300 feet
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Figure	4

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Appendix A

Proposed Development Drawings

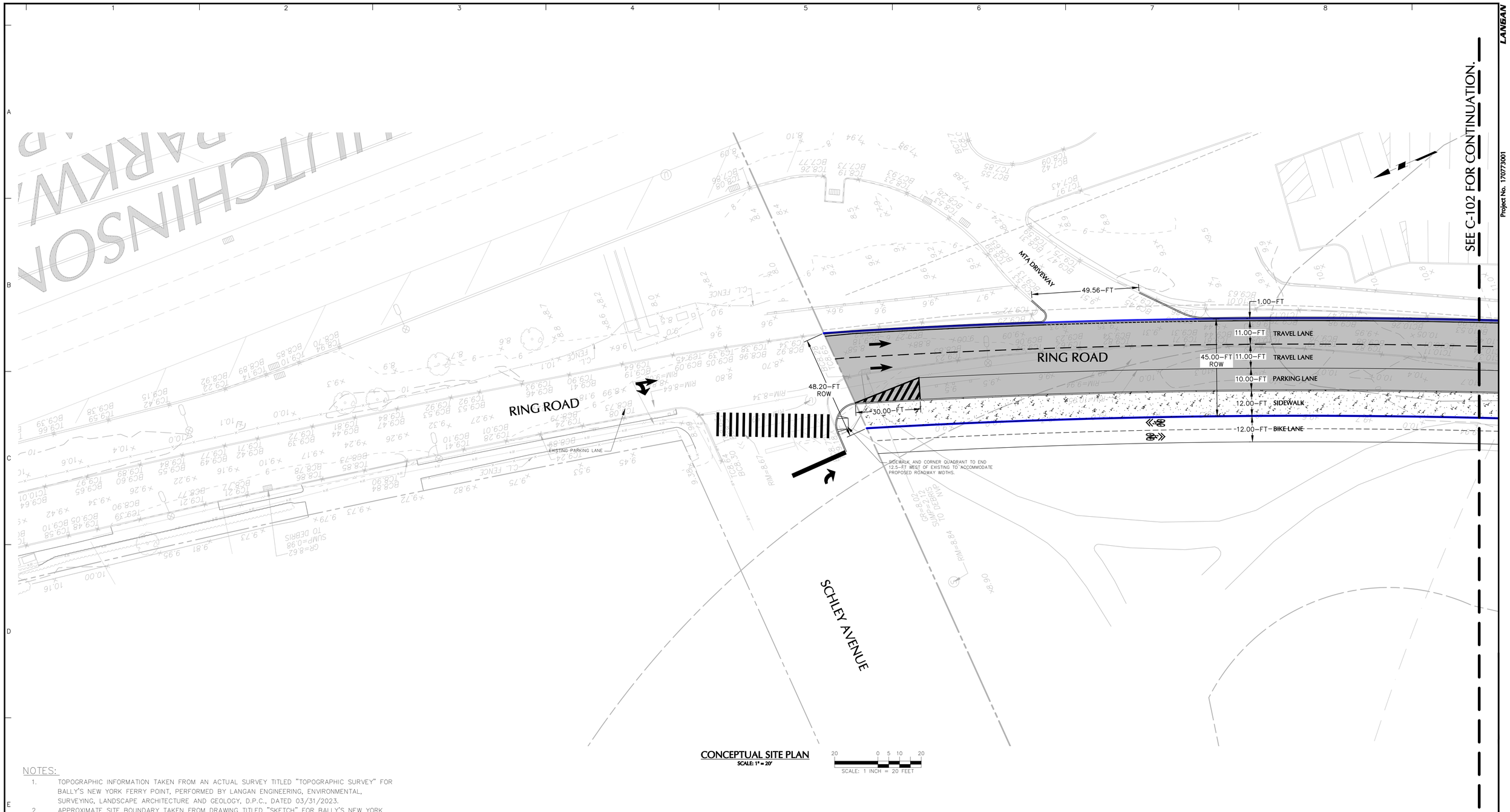

CONCEPTUAL SITE PLAN

SCALE: 1" = 20'

20 0 5 10 20

SCALE: 1 INCH = 20 FEET

NOTES:

1. TOPOGRAPHIC INFORMATION TAKEN FROM AN ACTUAL SURVEY TITLED "TOPOGRAPHIC SURVEY" FOR BALLY'S NEW YORK FERRY POINT, PERFORMED BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECTURE AND GEOLOGY, D.P.C., DATED 03/31/2023.
2. APPROXIMATE SITE BOUNDARY TAKEN FROM DRAWING TITLED "SKETCH" FOR BALLY'S NEW YORK FERRY POINT BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECTURE AND GEOLOGY DATED 11/30/2023.
3. PROPOSED BUILDING AND SITE INFORMATION SHOWN HEREON IS FROM FILES ELECTRONICALLY RECEIVED FROM HKS ON 12/21/2023.
4. MANHOLES AND STRUCTURES WITHIN ROADWAY FOOTPRINT SHALL BE RESET TO FINAL GRADE.
5. ALL SIDEWALKS, CURBS AND ROADWAYS SHALL BE CONSTRUCTED TO NYC DOT STANDARDS.
6. EXISTING SITE FEATURES AND APPURTENANCES WILL BE REMOVED OR RELOCATED AS NECESSARY TO CONSTRUCT RING ROAD, SIDEWALK AND BIKE PATH.

LEGEND

- PROPERTY LINE
- PROPOSED RIGHT OF WAY
- PROPOSED ROADWAY
- PROPOSED SIDEWALK
- NO PARKING ZONE

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Drawing Title: CONCEPTUAL RING ROAD PLAN FOR AGENCY REVIEW

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Drawing No. C-101

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CONCEPTUAL SITE PLAN

SCALE: 1" = 20'

20 0 5 10 20

SCALE: 1 INCH = 20 FEET

NOTES:

1. TOPOGRAPHIC INFORMATION TAKEN FROM AN ACTUAL SURVEY TITLED "TOPOGRAPHIC SURVEY" FOR BALLY'S NEW YORK FERRY POINT, PERFORMED BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECTURE AND GEOLOGY, D.P.C., DATED 03/31/2023.
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LEGEND

- PROPERTY LINE
- PROPOSED RIGHT OF WAY
- PROPOSED ROADWAY
- PROPOSED SIDEWALK
- NO PARKING ZONE

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CONCEPTUAL SITE PLAN

SCALE: 1" = 20'

20 0 5 10 20

SCALE: 1 INCH = 20 FEET

NOTES:

1. TOPOGRAPHIC INFORMATION TAKEN FROM AN ACTUAL SURVEY TITLED "TOPOGRAPHIC SURVEY" FOR BALLY'S NEW YORK FERRY POINT, PERFORMED BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECTURE AND GEOLOGY, D.P.C., DATED 03/31/2023.
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6. EXISTING SITE FEATURES AND APPURTENANCES WILL BE REMOVED OR RELOCATED AS NECESSARY TO CONSTRUCT RING ROAD, SIDEWALK AND BIKE PATH.

LEGEND

- PROPERTY LINE
- PROPOSED RIGHT OF WAY
- PROPOSED ROADWAY
- PROPOSED SIDEWALK
- NO PARKING ZONE

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NOTES:

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CONCEPTUAL SITE PLAN
SCALE: 1" = 20'

20 0 5 10 20
SCALE: 1 INCH = 20 FEET

LEGEND

- PROPERTY LINE
- PROPOSED RIGHT OF WAY
- PROPOSED ROADWAY
- PROPOSED SIDEWALK
- NO PARKING ZONE

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BRONX COUNTY NEW YORK

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Date 02/25/2025
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Drawing No. C-104
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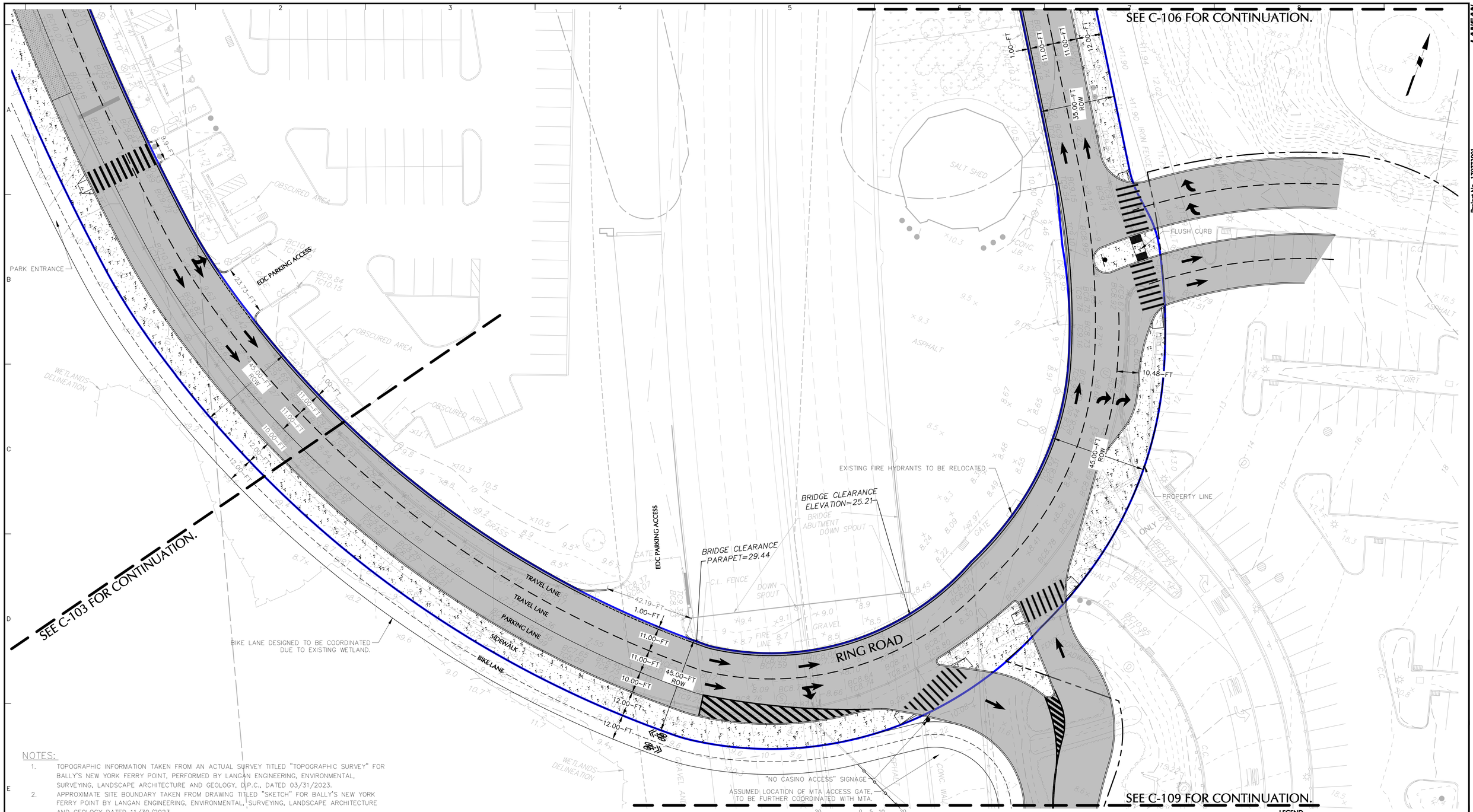

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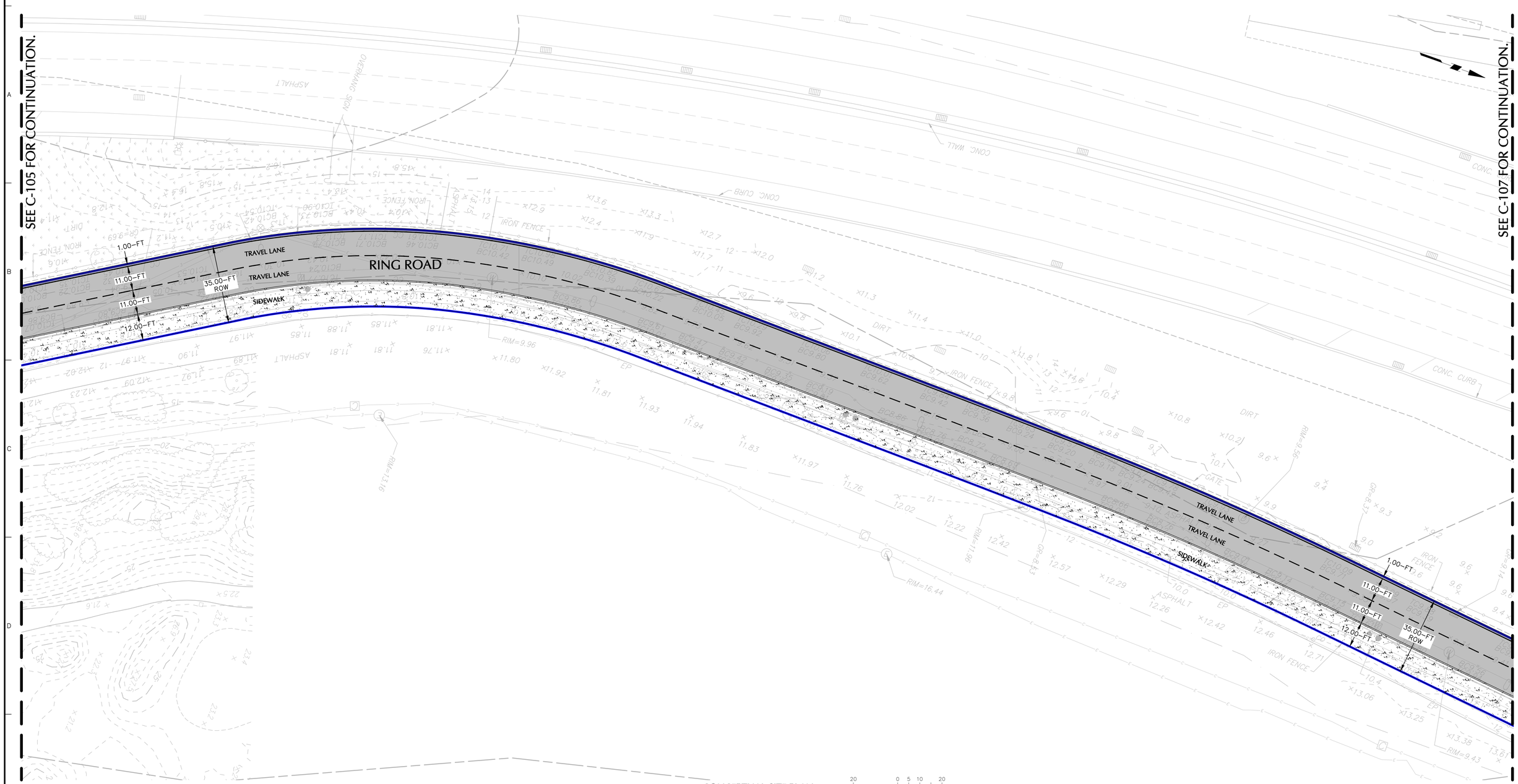

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SCALE: 1 INCH = 20 FEET

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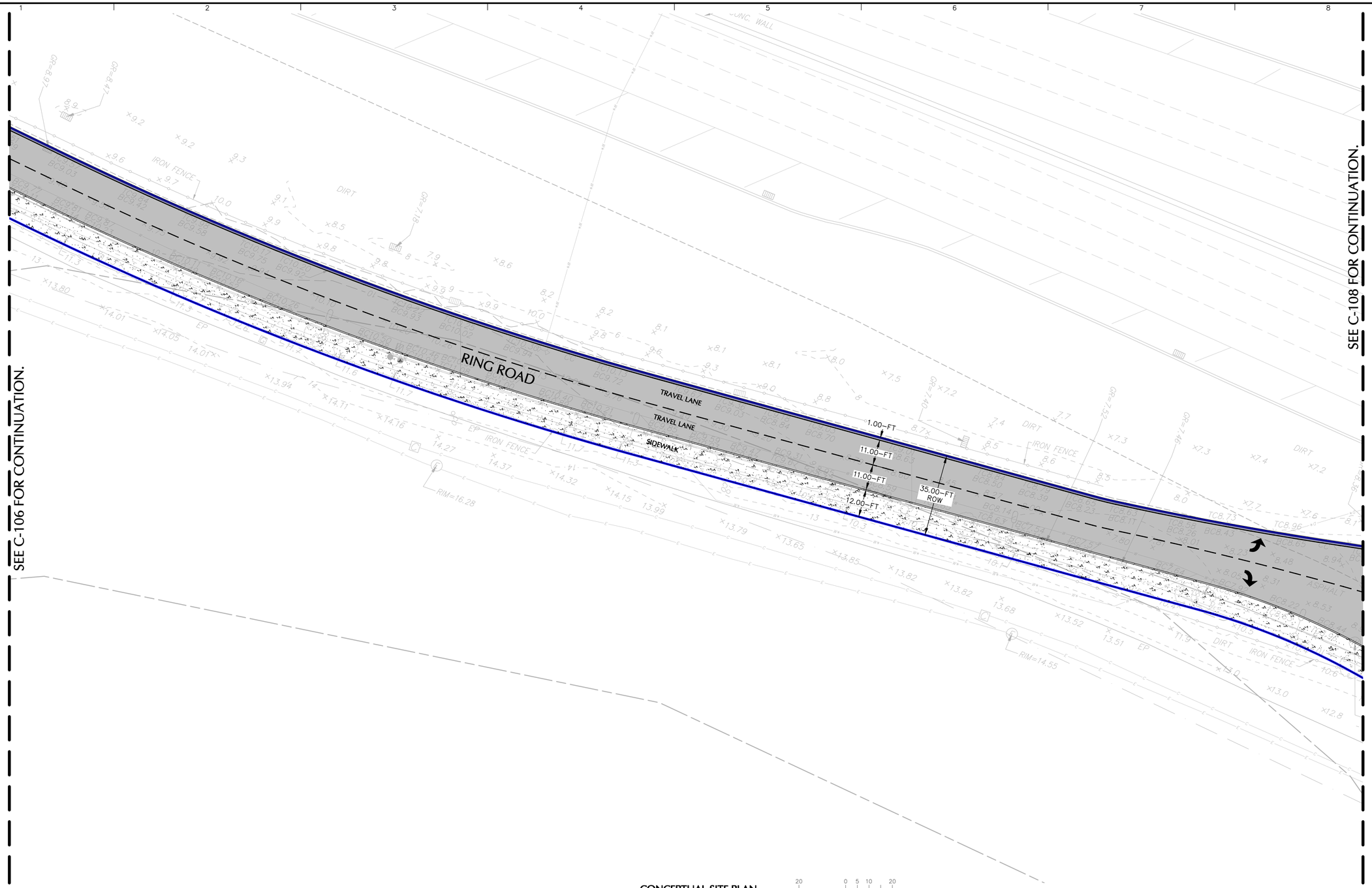

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SCALE: 1 INCH = 20 FEET

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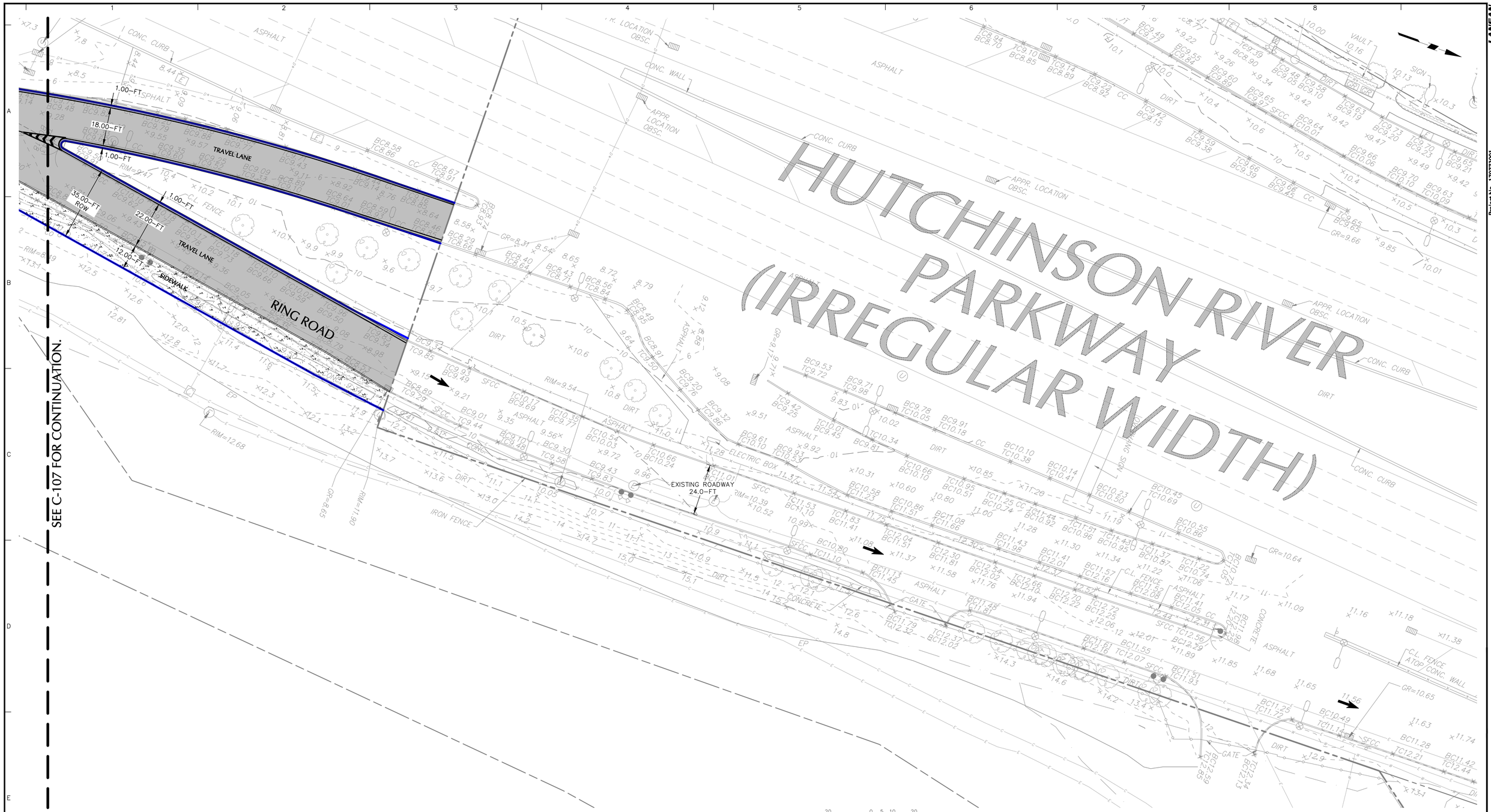

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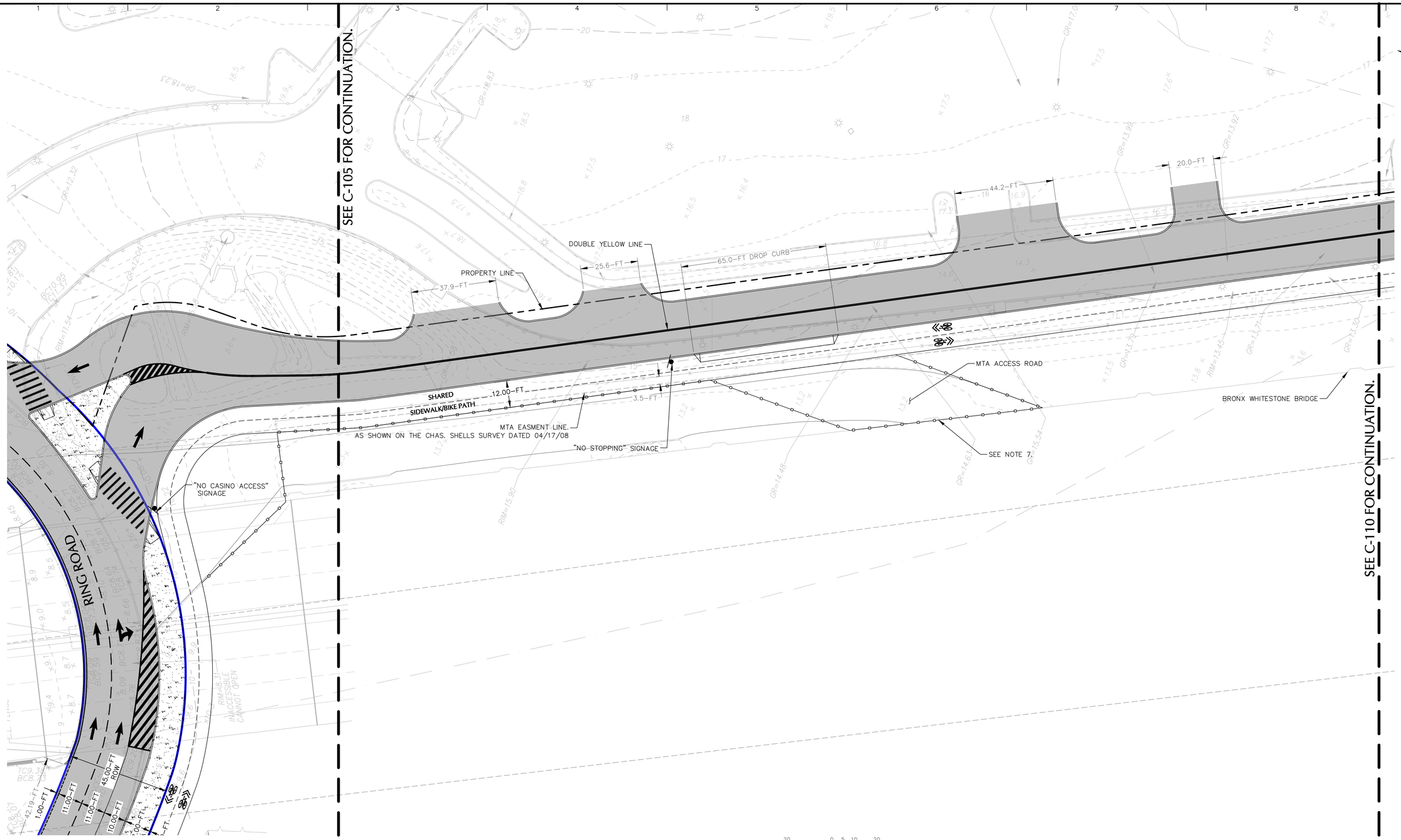

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7. BALLYS HAS AGREED TO PAY FOR A MECHANIZED GATE FOR MTA ACCESS.

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Project No. 170773001

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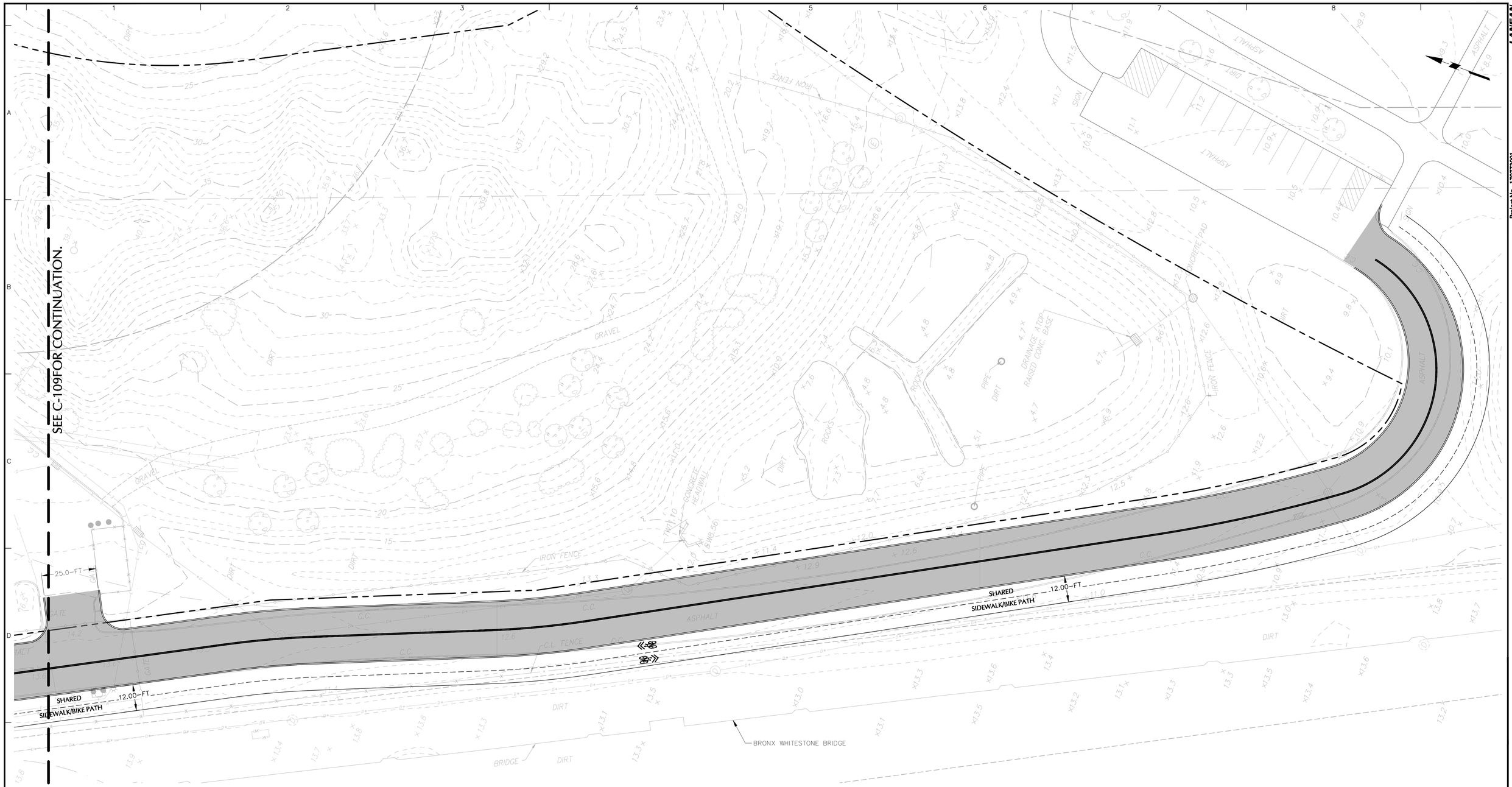

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SCALE: 1" = 20'

LEGEND

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Appendix B

Previous Environmental Reports

PHASE I ENVIRONMENTAL SITE ASSESSMENT

for

PROPOSED BALLY'S CASINO – RING ROAD
at FERRY POINT PARK
Bronx, New York 10465

Prepared for:

Bally's Corporation
100 Westminster Street
Providence, Rhode Island 02903

Prepared by:

Langan Engineering, Environmental, Surveying,
Landscape Architecture and Geology, D.P.C.
360 West 31st Street, 8th Floor
New York, New York 10001

Lamees Esmail, PE
Project Manager

Brian Gochenaur, QEP
Associate Principal/Vice President

Report Date: **12 September 2024**
180-Day Viability Date: **31 January 2025**
170773001

LANGAN

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EXECUTIVE SUMMARY

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) completed a Phase I Environmental Site Assessment (ESA) for a section of Hutchinson River Parkway, referred to as Ring Road, located within Ferry Point Park, Bronx, New York (the "Subject Property") under the written authorization of Bally's Corporation LLC (Bally's, "Client" and the "user").

The Phase I ESA was completed following the guidelines of ASTM International Standard Practice E1527-21 (ASTM E1527-21), the United States Environmental Protection Agency's (US EPA) All Appropriate Inquiries (AAI) Rule, and industry standard practice. The user requested this ESA to identify recognized environmental conditions (REC), controlled recognized environmental conditions (CREC), historical recognized environmental conditions (HREC), and de minimis conditions associated with the Subject Property.

Subject Property Layout

The Subject Property is an approximately 9.85-acre, U-shaped section of Ferry Point Park that primarily serves as a park thoroughfare and public recreation space. The Subject Property is improved with an uninterrupted, circular roadway, referred to as Ring Road. Ring Road is a one-lane, one-way, asphalt-paved roadway and is bordered on either side by concrete curbing, metal guardrails, and grass shoulders. The remainder of the Subject Property includes vegetated areas and footpaths associated with Ferry Point Park. The section of Ring Road comprising the Subject Property totals about 1 mile.

Improvements to the Subject Property, including widening of Ring Road are contemplated by Bally's as part of the proposed development of a gaming facility. The Subject Property encompasses the total area of proposed roadway improvements, which includes park land extending between about 40 and 60 feet beyond the current extents of Ring Road.

Subject Property Current Use

The Subject Property is used as a park roadway and also contains vegetation and footpaths. Vehicles must travel along Ring Road to enter Ferry Point Park, the adjoining Bally's Golf Links at Ferry Point golf course, and adjoining Bronx-Whitestone Bridge Metropolitan Transportation Authority (MTA) facility.

Subject Property History

The majority of the Subject Property was part of Westchester Creek and the Baxter Creek Inlet (now the East River) before infilling and development of Ferry Point Park in the 1940s. By 1947, the Subject Property and surrounding area had been infilled to create new land, and Ring Road had been constructed. Improvements to the Subject Property continued through 2015, when adjoining park and golf course construction were completed, and the Subject Property appeared as it does today.

Adjoining Properties and Surrounding Area

The surrounding area was depicted as mostly undeveloped and inundated in the topographic maps in the late 1800s and early 1900s. During the 1940s, the general area was infilled, and the Bronx-Whitestone Bridge was constructed on the southern-adjoining property. The supporting toll plaza and MTA structures were also erected north of the Subject Property during this time period. Landfilling operations took place on the eastern- and southern-adjoining properties

between 1950 and the 1960s. Development related to Ferry Point Park operations continued east, south, and west of the Subject Property until the current configuration was achieved circa 2015. North of the Subject Property, commercial development continued through the 1990s, until the existing buildings were constructed.

Conclusions

Langan completed a Phase I ESA of the Subject Property using the scope guidelines and inherent limitations of ASTM E1527-21. Table ES-1 presents the conclusions of the Phase I ESA.

Table ES-1 Conclusions, Findings and Opinions

ASTM E1527-21 Scope Items
Recognized Environmental Conditions (RECs)
Current and Historical Use of the Adjoining and Surrounding Properties: Historical adjoining and surrounding property use includes a municipal solid waste landfill (1950-1960s), a United Parcel Service (UPS) facility with petroleum and chemical bulk storage (1985 - present), and a Metropolitan Transportation Authority (MTA) bridge support facility with petroleum bulk storage (1951 - present). Documented and undocumented spills or releases of petroleum products or hazardous substances associated with these properties may have adversely affected groundwater and/or soil vapor on the Subject Property. *Non-native Fill:* Non-native fill is expected to underly the site above native soil. Non-native fill in New York City may contain contaminants, particularly metals and semi-volatile organic compounds (SVOCs), at concentrations that exceed applicable state and/or federal standards. Non-native fill does not trigger a regulatory reporting requirement, but may require implementation of special soil handling, management, and off-site disposal procedures if disturbed during development of the Subject Property.
Controlled Recognized Environmental Conditions (CRECs)
Langan did not identify CRECs.
Historical Recognized Environmental Conditions (HRECs)
Langan did not identify HRECs.
De Minimis Conditions
Langan did not identify de minimis conditions.
Significant Data Gaps
Langan did not identify significant data gaps.
Non-ASTM E1527-21 Scope Items
Business Environmental Risks (BERs)
Langan did not identify BERs.

1. INTRODUCTION

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) completed a Phase I Environmental Site Assessment (ESA) for a section of Hutchinson River Parkway, referred to as Ring Road, located within Ferry Point Park, Bronx, New York (the "Subject Property") under the written authorization of Bally's Corporation LLC (Bally's, "Client" and the "user"). A Subject Property Location Map is provided in Appendix A (Figure 1).

The Phase I ESA was completed following the guidelines of ASTM International Standard Practice E1527-21 (ASTM E1527-21), the United States Environmental Protection Agency's (US EPA) All Appropriate Inquiries (AAI) Rule, and industry standard practice. The user requested this ESA to identify recognized environmental conditions (REC), controlled recognized environmental conditions (CREC), historical recognized environmental conditions (HREC), and de minimis conditions associated with the Subject Property.

1.1 Purpose

The purpose of this Phase I ESA is to identify RECs associated with the Subject Property. This purpose also includes identifying CRECs, HRECs, de minimis conditions, and significant data gaps. The definitions of REC, CREC, HREC, de minimis condition and other select ASTM terms used in this report are in Section 8.

1.2 Scope of Services

Langan's scope of services consisted of the completion of a Phase I ESA following the guidelines of ASTM E1527-21. Langan's scope of services as it pertains to the elements of a Phase I ESA as specified in ASTM E1527-21 is described below.

On 8 July 2024, the US EPA final rule designating two per- and polyfluoroalkyl substances (PFAS) – perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) including their salts and structural isomers – as hazardous substances under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) became effective. Because of the complex and varied historical use of PFAS in various industries; limited prior disclosures of PFAS content on product specification sheets, Material Safety Data Sheets (MSDS), and Safety Data Sheets (SDS); the complex chemistry and chemical transformations associated with some PFAS; and the ever-growing and varied list of state regulations, it is not feasible to evaluate PFOA and PFOS without also considering other PFAS. As such, absent analytical data, Langan incorporated a review of PFAS as a general class into this Phase I ESA.

PFAS and other CERCLA hazardous substances and petroleum products have been detected in background environmental samples across the globe, including in areas removed from specific recognized sources. This Phase I ESA was not intended to evaluate background concentrations of CERCLA hazardous substances or petroleum products, regardless of whether the source is naturally occurring or anthropogenic. The objective of Langan's scope of services was to identify the presence, likely presence, and/or material threat of a release of CERCLA hazardous substances and petroleum products related to specific property uses that are generally recognized as known or potential sources of such substances and products.

1.2.1 Records Review and Local Government Interviews

Langan contracted a third-party provider to search environmental regulatory databases and provide historical records. The database search included select federal, state, local and tribal standard source environmental databases within the approximate search radii specified by ASTM E1527-21.

Langan submitted Freedom of Information Act (FOIA) requests to supplement environmental database listing information. The FOIA requests were submitted to the New York City Department of Environmental Protection (NYCDEP), New York City Department of Health and Mental Hygiene (NYCDHMH), New York City Fire Department (FDNY), New York State Department of Health (NYSDOH), New York State Department of Environmental Conservation (NYSDEC) and US EPA Region 2.

Langan supplemented the third-party-provided historical records with review of online historical record sources including Google Earth Pro, the New York City Department of Buildings (NYCDOB) online query system, New York City Department of City Planning Commission (NYCDCP) zoning maps, the City Environmental Quality Review (CEQR) Environmental Designation list, the Automated City Register Information System (ACRIS) website, and US EPA databases. Agency FOIA-requested information, where received, is discussed in relevant sections of this report and referenced in Section 7. Pertinent documents are provided in Appendix B.

1.2.2 Site Reconnaissance and Owner/Operator/Occupant Interviews

Langan completed the site reconnaissance on 9 August 2024. Kaitlyn Gioia of Langan coordinated with Brian Crowell (General Manager with Bally's Golf Links at Ferry Point [the User]; the "key site manager") to schedule the site reconnaissance for the Subject Property.

Langan walked the periphery of the Subject Property and observed the Subject Property from adjoining public thoroughfares. Langan observed the adjoining properties and the surrounding area from the periphery of the Subject Property and from public thoroughfares adjoining to or traveled on to access the Subject Property. The weather at the time of the site reconnaissance was approximately 80°F and rainy. Photographs from the site reconnaissance are provided in Appendix C.

An owner/operator questionnaire was completed by Ms. Kay Zias, a representative of the current owner of the Subject Property, the NYC Department of Parks and Recreation (NYCDPR). Ms. Zias is the Director of the Environmental Remediation Unit with NYCDPR. Ms. Zias noted that she is not aware of litigation administrative proceedings, or environmental notices related to hazardous substances or petroleum products at the Subject Property. A summary of the owner's responses is provided in Appendix D and relevant information from environmental reports provided from NYCDPR is discussed in applicable sections of this report.

1.2.3 Evaluation, Report and Parts Used in Concert

Langan evaluated the information obtained from the records reviews, site reconnaissance and interviews described above, and from the user as described in Section 1.3 in concert with each other. Langan's findings, opinions, and conclusions are discussed throughout this report. Significant assumptions, or deletions, deviations or exceptions to ASTM E1527-21 are noted in Section 1.4.

1.2.4 Non-ASTM Scope Services

The scope of services for the Phase I ESA did not include non-scope ASTM considerations including, but not limited to, asbestos, biological agents, mold, etc.

1.3 User Responsibilities

Langan requested that the user provide the results of tasks the user is responsible for completing to satisfy the requirements of AAI. The tasks include: providing information related to specialized knowledge or experience of the user or the degree of obviousness relative to conditions indicative of releases or threatened releases; actual knowledge of the user regarding environmental liens or activity and use limitations (AULs) related to the Subject Property; specialized knowledge or experience of the user; reasons for significantly lower purchase prices, and commonly known or reasonably ascertainable information within the local community about the Subject Property. Langan also requested that the user state the reason the Phase I ESA was requested. A summary of the user's responses is provided in Appendix D and relevant information provided by the user is discussed in applicable sections of this report.

Langan contracted Environmental Data Resources, Inc. (EDR) to conduct an environmental lien and AUL search for the Subject Property. The result of the search, which included a compilation of available data and verification of the findings with the appropriate regulatory authorities, did not reveal environmental liens or AULs. A copy of the environmental lien search is provided in Appendix B.

1.4 Limiting Conditions/Deviations

Langan was unable to observe the ground surface throughout unpaved sections of the Subject Property exterior due to vegetation overgrowth. This limiting condition did not impact Langan's conclusions based on review of aerial photographs.

Langan did not delete or deviate from the ASTM E1527-21 guidelines during this Phase I ESA.

1.5 Data Gaps

Data gaps, if encountered, are discussed throughout the report. Significant data gaps, if any, are summarized in Section 5.0.

2. SUBJECT PROPERTY DESCRIPTION AND CURRENT USE

The following sections describe the Subject Property location, ownership, physical setting, and current layout and operations.

2.1 Location, Legal Description, and Ownership

The approximately 9.85-acre Subject Property is identified on the New York City Bronx Borough Tax Map as part of Block 5622, Lot 1. The Subject Property is bound by Schley Avenue, the Hutchinson River Parkway, and service roads to the north; Bally's Golf Links at Ferry Point golf course to the east; Ferry Point Park and the Bronx-Whitestone Bridge to the south; and Ferry Point Park to the west. Between the western and eastern legs of the U-shape formed by the Subject Property lies public parking areas for Ferry Point Park and the Bronx-Whitestone Bridge Metropolitan Transit Authority (MTA) Building. According to ACRIS, the Subject Property is owned by the NYCDPR.

2.2 Physical Setting

The physical setting that includes the geologic, hydrogeologic, hydrologic, and topographic characteristics of the Subject Property and surrounding area is discussed below.

2.2.1 Topography

The 2019 United States Geological Survey (USGS) 7.5-minute quadrangle topographic map for Flushing depicts the Subject Property at an elevation of approximately 16 feet above mean sea level (msl) with a gentle slope downward toward the west-southwest. The regional topography slopes downward toward the west-southwest and Westchester Creek, which is located approximately 320 feet west of the Subject Property.

2.2.2 Geology

According to the U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) Soil Survey Geographic (SSURGO) data for Summit County, soils at the Subject Property consist primarily of urban land with tidal marsh stratum, and lesser amounts of Greenbelt loam, Greatkills gravelly sandy loam, and North Meadow sandy loam. Urban Land refers to soils that have been altered by human activities thus making them unidentifiable. Typically, these soils have been mixed with other materials, such as brick, concrete, and demolition debris of unknown origin (non-native fill). Non-native fill found in urban environments typically contains ash, demolition debris, and/or municipal waste products and may contain contaminants (e.g., semi volatile organic compounds [SVOCs] or metals) at concentrations above current regulatory standards. Non-native fill does not trigger a regulatory reporting requirement, but may require implementation of special soil handling, management, and off-site disposal procedures if disturbed during development of the Subject Property. The presence of non-native fill is considered a REC.

According to the USGS Bedrock and engineering geologic maps of New York County and parts of Kings and Queens Counties, New York, and parts of Bergen and Hudson Counties, New Jersey (Baskerville, C.A., 1994), the Subject Property is in the Pelham Bay Member, which consists of sillimanite-grade gneisses. According to previous geotechnical investigations in the surrounding area, subsurface conditions generally consist of a layer of miscellaneous fill, overlying natural,

soft, silty, clayey, peat and sands, which overly glacial till. Bedrock is expected to be 80 to 120 feet below current grade.

2.2.3 Hydrogeology

Surface water bodies are not present within the boundary of the Subject Property. The nearest surface water bodies are Westchester Creek and the East River. Information regarding Subject Property-specific groundwater flow direction is unavailable. Groundwater flow can be influenced by several factors such as surface water bodies, wetlands, hydrogeologic and anthropogenic variables. However, based on topographic gradient and proximity to Westchester Creek and the East River, it is expected that groundwater generally flows to the west-southwest.

A review of the Geocheck section of the LightBox Environmental Data Resources (EDR) Regulatory Database Report (Appendix E) and site reconnaissance observations did not identify groundwater wells on the Subject Property. The EDR report identified one groundwater monitoring well within a quarter mile of the Subject Property. No groundwater elevation data from the well is available; however, based on Langan's experience with, and previous reports for the area, groundwater is tidally influenced and estimated between 2 and 20 feet below grade surface (bgs).

2.3 Subject Property Description

The Subject Property is an approximately 9.85-acre, U-shaped section of Ferry Point Park that primarily serves as a park thoroughfare and public space. The Subject Property is improved with an uninterrupted, circular roadway, referred to as Ring Road. Ring Road is a one-lane, one-way, asphalt-paved park roadway and is bordered on either side by concrete curbing, metal guardrails, and grass shoulders. The remainder of the Subject Property includes vegetated areas and footpaths associated with Ferry Point Park. The section of Ring Road comprising the Subject Property totals about 1 mile.

Improvements to the Subject Property, including widening of Ring Road are contemplated by Bally's as part of the proposed development of a gaming facility. The Subject Property encompasses the total area of proposed roadway improvements, which includes park land extending between about 40 and 60 feet beyond the current extents of Ring Road.

A Subject Property Layout Map is provided in Figure 2 of Appendix A. Photographs of the Subject Property and a checklist documenting Langan's observations relative to the features, activities, uses and conditions outlined in Section 9.4 of ASTM E1527-21 are in Appendix C.

2.4 Current Subject Property Use

The Subject Property is used as a park roadway and also contains vegetation and footpaths. Vehicles must travel along Ring Road to enter Ferry Point Park, the adjoining Bally's Golf Links at Ferry Point golf course, and adjoining Bronx-Whitestone Bridge MTA facility.

The following table summarizes Subject Property utility providers.

Table 2-1 Utility Providers

Utility	Providers
Electricity	Consolidated Edison (Con Edison)
Natural gas	None – within the Con Edison service area

Utility	Providers
Water	NYCDEP
Sewer	NYCDEP

2.5 Hazardous Substances and Petroleum Products

Langan did not observe hazardous waste or petroleum products at the Subject Property. According to EDR database records, no hazardous waste is currently being generated at the Subject Property.

2.5.1 Underground Storage Tanks (USTs)

Langan did not observe evidence of USTs at the Subject Property.

2.5.2 Aboveground Storage Tanks (ASTs)

Langan did not observe evidence of ASTs at the Subject Property.

2.5.3 Drums, Totes, and Intermediate Bulk Containers

Langan did not observe drums, totes, or other intermediate bulk containers at the Subject Property.

2.5.4 Other Chemical Storage, Containers, or Equipment

Langan did not observe chemical storage, containers or equipment at the Subject Property.

2.6 Air Emissions

Langan did not identify sources of air emissions at the Subject Property.

2.7 Waste Management

The following sections describe current hazardous and non-hazardous waste streams, and observations of fill areas or other solid waste throughout the Subject Property.

2.7.1 Hazardous Waste

According to EDR database records, no hazardous waste is currently being generated at the Subject Property. Langan did not observe hazardous waste at the Subject Property.

2.7.2 Non-Hazardous Waste

Langan did not observe non-hazardous waste at the Subject Property.

2.7.3 Fill Areas or Solid Waste

Langan observed several about 1-inch-diameter holes adjacent to the metal guardrail along the eastern leg of the Subject Property. The holes are presumed to be associated with guardrail installation.

Langan did not observe areas that were apparently filled or graded by non-natural causes (or filled with material of unknown origin) that suggest the presence of garbage, construction debris,

demolition debris, or other solid waste disposal, or mounds or depressions suggesting solid waste disposal.

2.8 Wastewater

No wastewater streams are generated at the Subject Property. Connection to the municipal sanitary sewer has not yet been provided to the Subject Property but is available through the City of New York. Langan did not observe or identify evidence of septic systems or cesspools at the Subject Property.

2.9 Storm Water

Storm water at the Subject Property percolates through pervious areas or sheet flows to the into the municipal storm sewer system. Several storm drains are located throughout Ring Road. Langan did not observe evidence of impact (e.g., sheens, staining) to storm water pathways. As indicated by the user, Ring Road is prone to flooding during extreme weather events.

3. SUBJECT PROPERTY HISTORY AND RECORDS REVIEW

The following sections provide summaries of the historical uses of the Subject Property, and available information regarding documented environmental conditions associated with the historical uses.

3.1 Historical Summary

Langan compiled the following summary of the Subject Property history based on a review of readily available and reasonably ascertainable sources and interviews. Historical resources are provided in Appendix F.

Table 3-1 Subject Property History

Time Period	Historical Discussion
1890s – 1930s	The Subject Property is depicted as undeveloped and predominantly marsh- and swampland on topographic maps during this period. The majority of the Subject Property is part of the Westchester Creek and Baxter Creek Inlet and entirely submerged in the aerial photograph from 1924.
1940 – 1960s	According to the 1947 topographic map, the former marsh was filled in and Ring Road is visible on the Subject Property. Baxter Creek Inlet adjoins the Subject Property to the east. The Subject Property is bisected by a newly-constructed Bronx-Whitestone Bridge and associated toll plaza. Based on aerial photographs between 1950 and 1966, development of Ring Road continues, including widening the road and paving its surface. Connections from Ring Road are also made to the adjoining toll plaza.
1970s – 2010s	Between the 1970s and 2010s, Ring Road appears to remain relatively unchanged in aerial photographs, topographic maps, and Sanborn maps. Beyond Ring Road, the shoulder along the eastern part of the Subject Property is decreased circa 2011 to add a park footpath and accommodate development of the east-adjoining property.
2015 – Present	Based on the 2015 aerial photograph, development of the east-adjoining property is completed, and the Subject Property appears in its current configuration.

The majority of the Subject Property was part of Westchester Creek and the Baxter Creek Inlet (now the East River) before infilling and development of Ferry Point Park in the 1940s. During infilling, the Subject Property was backfilled with fill of unknown quality. As discussed in Section 2.2.2, the presence of non-native fill is considered a REC.

3.2 Regulatory Database Review

The Subject Property is identified in the NYC Land Use database. The NYC Land Use database listing relates to general information regarding the current zoning as a park and building class information for the Subject Property. No violations are reported in this database; therefore, the listing is not considered a REC.

3.3 Prior Report Review

Prior reports were not provided for review.

4. ADJOINING PROPERTIES AND SURROUNDING AREA

The following sections describe current and historical uses of and database listings for adjoining properties and the surrounding area.

4.1 Current Use of Adjoining Properties and Surrounding Area

The current use of adjoining and surrounding properties is summarized in Table 4-1.

Table 4-1 Current Use of Adjoining Properties and Surrounding Area

Direction	Adjoining Properties	Surrounding Area
North	Schley Avenue, Ferry Point Park, and Bronx-Whitestone Bridge MTA Building (492 Hutchinson River Parkway, Bronx, NY 10465)	Interstate 678, St. Raymond New Cemetery and commercial buildings
East	Bally's Golf Links at Ferry Point (500 Hutchinson River Parkway, Bronx, NY 10465)	Residential buildings
South	Bronx-Whitestone Bridge and Ferry Point Park (no address)	East River
West	Ferry Point Park (no address)	Westchester Creek

A diesel-fired generator was observed along the perimeter of Ring Road at the eastern adjoining property during the site reconnaissance. Langan did not observe indications of leaks or releases from the generator.

Langan did not observe obvious conditions likely to represent environmental concerns for the Subject Property from current uses of adjoining or surrounding properties.

4.2 Adjoining Properties and Surrounding Area History

Langan compiled the following summaries of the adjoining properties and surrounding area history based on a review of historical resources and interviews. Historical resources are provided in Appendix F.

Table 4-2 Historical Use of Adjoining Properties

Direction	Adjoining Properties
North	The northern-adjoining properties are depicted as undeveloped on topographic maps in the late 1800s. The 1924 aerial photograph shows that some of the properties are inundated and part of Westchester Creek. By 1947, topographic maps depict one of the northern-adjoining properties to be developed as part of the Bronx-Whitestone Bridge and associated toll plaza. Continued development through the late-1900s includes construction of an additional support facility for the Bronx-Whitestone Bridge, a warehouse along Schley Avenue, and several parking lots. Langan does not consider the historical uses of the northern-adjoining properties an environmental concern for the Subject Property.
East	The eastern-adjoining property is depicted as undeveloped on topographic maps and aerial photographs from the 1890s to 1920s. Based on aerial photographs, between the 1950s and 1960s, the east-adjoining property is part of landfilling operations that form the present-day shoreline. Limited road development on the eastern-adjoining property continues

Direction	Adjoining Properties
	through the 1990s, until the construction of the present-day golf course begins in the 2000s. The golf course was completed circa 2015. Landfilling operations are further discussed in Section 4.3.1.
South	The southern adjoining property is depicted as undeveloped on topographic maps and aerial photographs between the 1890s and 1920s. By 1947, the Bronx-Whitestone Bridge is constructed. The remaining property south of the Subject Property consists of Ferry Point Park and also includes landfilling operations described above, as further discussed in Section 4.3.1.
West	Based on topographic maps, the western-adjoining property was developed with a roadway as early as the late-1800s, and Sanborn maps show that this property is part of Ferry Point Park. Aerial photographs and Sanborn maps indicate limited development of the western-adjoining property, until about 1985, when an athletic field and additional park footpaths are constructed. This configuration is generally consistent with present day. Langan does not consider the historical use of the western-adjoining property an environmental concern for the Subject Property.

The surrounding area was depicted as mostly undeveloped and inundated in the topographic maps in the late 1800s and early 1900s. During the 1940s, the general area was infilled, and the Bronx-Whitestone Bridge was constructed on the southern-adjoining property. Supporting toll plaza and MTA structures were also erected north of the Subject Property during this time period. Landfilling operations took place on the eastern- and southern-adjoining properties between 1950 and the 1960s. Development related to Ferry Point Park operations continued east, south, and west of the Subject Property until the current configuration was achieved circa 2015. North of the Subject Property, commercial development continued through the 1990s, until the existing buildings were constructed.

Between 1950 and the 1960s, landfilling operations appear to take place on the eastern- and southern adjoining properties. Contaminants of concern on the eastern- and southern- adjoining properties include municipal solid waste and landfill gas (including methane) generated from the decomposition of residual landfill contents. Operations are further discussed in Section 4.3.1.

4.3 Regulatory Database Review

Langan reviewed the environmental database report to evaluate if adjoining or surrounding area properties identified in the database report are suspected to represent an environmental concern for the Subject Property (see Section 8.2). Unless discussed in Section 4.3.1 or 4.3.2 below, Langan did not consider the associated regulatory agency files potential RECs for the Subject Property.

4.3.1 Adjoining Properties

Database listings for adjoining properties are summarized as follows. Adjoining and nearby properties of concern are depicted on Figure 3 of Appendix A.

Ferry Point Park Recreational Facility – 500 Hutchinson River Parkway (eastern/southern-adjoining, inferred upgradient/cross-gradient)

This facility, also identified as "NYCP&R – Ferry Point Waterfront Park", "Ferry Point Golf Course", "Ferry Point Recreational Fac.", and "NYC Parks – Ferry Point Park", was identified on the PFAS Enforcement and Compliance History Online (ECHO), State Pollutant Discharge Elimination System (SPDES), Facility Index System (FINDS), ECHO, and NY Spills databases.

The area of Ferry Point Park east of the Whitestone Bridge was formerly used as a municipal solid waste landfill. In 2000, the NYSDEC issued a Part 360 Permit (Permit No. 2-6006-00014) to allow the import and placement of nonhazardous regulated fill and soil for the construction of the current the golf course. Golf course construction was completed by 2015. The PFAS ECHO, SPDES, FINDS, and ECHO listings are related to former landfill operations as well as golf course construction activities. The site is also identified as a Resource Conservation and Recovery Act (RCRA) – Large Quantity Generator (LQG) in 2009 for the disposal of 10.4 tons of lead waste. No violations were reported related to the database entries. Further information regarding operational use of PFAS was unavailable.

The NY Spills listing is related to NY Spill No. 0913675 and the release of about 5 gallons of diesel fuel in January 2010. According to the listing, a generator was overfilled, and diesel overflowed onto the surrounding ground affecting an approximately 20-foot-long by 10-foot-wide area. Impacted soil was excavated and disposed of, and the spill was closed on 25 March 2010.

Langan did not identify evidence of release of PFAS. However, given the reported history of a chemical release and operations as a municipal solid waste landfill, Langan cannot rule out the potential for PFAS and other contaminant impacts to soil and/or groundwater at the Subject Property from former operations at this eastern/southern-adjoining and inferred upgradient/cross-gradient facility. Therefore, this adjoining property is considered a REC.

Bronx-Whitestone Bridge Facility – 1 Hutchinson River Parkway (northern-adjoining, inferred cross-gradient)

This facility, also identified as "NYSDOT BIN 55211229 – Bronx Whitestone Bridge", and "Bronx Whitestone Bridge", and "Bronx Whitestone Bridge", was listed in the FINDS, NY Spills, UST, AST, Leaking Tanks (LTANKS), Manifest, UST Finder Release, and RCRA-LQG databases.

The UST, UST Finder Release, and AST listings are related to petroleum bulk storage at this facility. According to these databases and the NYSDEC Petroleum Bulk Storage Database (PBS) listing for the site (ID No. 2-481645), there have been 15 tanks at this facility. Four are currently listed in-service, and the remaining 11 tanks have been closed/removed. Tanks sizes range from 550 gallons to 20,000 gallons, and contents include diesel, No. 2 fuel oil, and gasoline. The active tanks include three USTs and one AST.

Several releases related to petroleum bulk storage are associated with this site. The following spills were reported for the site: 8807410, 9201985, 9303540, 9408139, 9501417, 9503672, 9601373, 9607895, 9801266, 9906022, and 0100477. Most of the spills are noted as the result of equipment failure; product releases include diesel, No. 2 fuel oil, ethylene glycol, and gasoline. Spill Nos. 9201985, 9501417, 9601373, 9801266 and 0100477 note impacts to groundwater. Each spill incident has been granted closed status by the NYSDEC, indicating that NYSDEC is satisfied with spill remediation; however, based on the frequency of releases from the facility, variety of products released, and causes of releases, residual contamination or unknown releases may have impacted subsurface conditions at the Subject Property.

The facility is listed in the RCRA generator databases for generation of corrosive-, ignitable-, benzene-, lead-, and mercury-hazardous-wastes. The facility has been listed as a LQG in 1989, 1992, 1994, 1995, 1998, 2001, 2002, 2004, 2006, 2007, 2010, 2012, 2018, and a Small Quantity Generator (SQG) in 2006. Manifests documenting waste disposal are available between 2011 and 2016. Several violations are listed during operations, including compliance evaluation-inspection-, general-generator-, and pre-transport-violations. Undocumented spills or releases of solvents or other hazardous substances associated with operations may have migrated and adversely affected groundwater, and/or soil vapor on the Subject Property.

Petroleum bulk storage, documented releases, and potential releases of solvents or other hazardous substances associated with operations at this adjoining property are considered a REC.

Manhole 15002 – 80 North Hutchinson River Parkway (western adjoining, inferred upgradient)

This facility was identified in the NY Spills database under Spill No. 1000322. The spill was reported on 8 April 2010 for the release of 25 gallons of dielectric cable fluid from a Con Edison pole-mounted transformer onto the adjoining sidewalk and soil. The spill was remediated and subsequently closed on 22 April 2010.

Similar listings are noted for several Con Edison structures surrounding the Subject Property. Con Edison maintains an internal protocol for managing hazardous substances, and none of the database listings indicate open spills or violations for these facilities; therefore, the listings are not considered RECs.

MTA Bridges & Tunnels (BWB) (southern adjoining, inferred cross-gradient)

This facility, also identified as "Whitestone Bridge BX", and "Whitestone Bridge", is listed in the NY Spills, LTANKS, RCRA –SQG, and Manifest databases. The facility is listed in the RCRA generator databases for generation of ignitable-, benzene-, and lead-hazardous-wastes. The facility is listed as a SQG in 2007. Manifests documenting waste disposal are available between 2011 and 2016. No violations were reported for this facility.

Whitestone Bridge BX is listed in the LTANKS database under Spill No. 8912020. The spill was reported on 19 March 1990 when a commercial vehicle pulled off-road and spilled oil from its saddle tank into a drain. FDNY hosed spillage into the drain and the spill was closed on the same day.

The NY Spills database listing is related to Spill No. 0011525, reported on 25 January 2001. The spill was caused by the release of 1 pint of dielectric fluid onto the floor of a Con Edison vault. The spill was remediated and subsequently closed 1 June 2001.

Based on the lack of violations and closed status of the above listings, this facility is not considered a REC.

4.3.2 Surrounding Area

Langan evaluated each of the database listings for surrounding area properties (see Section 8.2). Those warranting further discussion in the context of potential to represent an environmental concern for the Subject Property are discussed below.

Vault #2232 – 555 Hutchinson River Parkway (approximately 0.08 miles north, inferred cross-gradient)

This facility is listed in the AST and NY Spills databases. According to the AST listing, there is one 6,000-gallon No. 2 fuel oil storage tank at the property used for on-site consumption. The tank reportedly rests on soil, allowing for no visual inspection; however, there are no reported releases related to this tank system.

The site is listed in the NY Spills database under Spill No. 0813834, which is related to equipment failure within a Con Edison vault adjacent to the building located at 555 Hutchinson River Parkway. About 5 gallons of transformer oil was released into the vault on 23 March 2009. The spill was remediated, and the spill number was closed on 8 June 2009.

Based on the lack of reported releases or closed status of the above listings, this facility is not considered a REC.

United Parcel Service (UPS) – 545 Brush Avenue (approximately 0.13 miles north, inferred cross-gradient)

This facility is listed in the LTANKS, RCRA-SQG, Chemical Bulk Storage (CBS) AST, E Manifest, Manifest, Tanks, SPDES, AST, UST, UST Finder, NY Spills, and CBS databases.

The following NY Spill Numbers are associated with the facility: 8909242, 8908245, 9307821, 9507165, 1807344, and 2207848. Most of the spills are noted as the result of equipment failure, and product releases include diesel, unknown petroleum, gasoline, and unknown material. Spill Nos. 8908245 and 9507165 note impacts to groundwater. With the exception of Spill No. 2207848, each spill incident has been granted closed status by the NYSDEC, indicating that NYSDEC is satisfied with spill remediation; however, based on the frequency of releases from the facility, variety of products released, and causes of releases, residual contamination or unknown releases may have impacted subsurface conditions at the Subject Property.

Spill No. 2207848, reported on 21 December 2022, is related to a punctured saddle tank that spilled 20 gallons of diesel to the road adjoining the facility. Spill closure is still pending.

The facility is listed in the RCRA generator databases for generation of ignitable-, corrosive-, reactive-, chromium-, silver-, benzene-, carbon-tetrachloride-, chlorobenzene-, cresol-, 1,2-dichloroethane-, methyl-ethyl-ketone-, tetrachloroethylene-, undefined-, nicotine-, salts-, dichloro-methane-, acetic-acid-, formaldehyde-, hydrofluoric-acid-, methanol-, 2-propenoic-acid-, furan-, and ester-hazardous-wastes. The facility has been listed as a Conditionally Exempt Small Quantity Generator (CESQG) in 1995, 2006, and a SQG in 1990, 2007, and 2022. There are fourteen violations recorded for this facility. Undocumented spills or releases of solvents or other hazardous substances associated with operations may have migrated and adversely affected groundwater, and/or soil vapor on the Subject Property.

The facility is listed in the CBS AST database for active chemical-bulk storage, including two 200-gallon ethylene glycol storage tanks. Based on the aforementioned documented releases, chemical-bulk storage at this facility poses an environmental concern for the Subject Property.

Chemical bulk storage, documented releases, and potential releases of petroleum products, chemicals, or other hazardous substances associated with this surrounding property may have adversely affected groundwater, and/or soil vapor on the Subject Property; therefore, this site is a REC.

5. CONCLUSIONS, FINDINGS AND OPINIONS

Langan completed a Phase I ESA consistent with the scope and limitations of ASTM E1527-21 for the Subject Property, referred to as Ring Road, located within Ferry Point Park, Bronx, New York. Exceptions to, or deletions from, ASTM E1527-21 are described in Section 8 of this report.

This assessment has revealed the following RECs in connection with the Subject Property as presented in Table 5-1.

Table 5-1 Conclusions, Findings and Opinions

ASTM E1527-21 Scope Items
Recognized Environmental Conditions (RECs)
Current and Historical Use of the Adjoining and Surrounding Properties: Historical adjoining and surrounding property use includes a municipal solid waste landfill (1950-1960s), a UPS facility with petroleum and chemical bulk storage (1985 - present), and a MTA bridge support facility with petroleum bulk storage (1951 - present). Documented and undocumented spills or releases of petroleum products or hazardous substances associated with these properties may have adversely affected groundwater and/or soil vapor on the Subject Property. *Non-native Fill:* Non-native fill is expected to underly the site above native soil. Non-native fill in New York City may contain contaminants, particularly metals and SVOCs, at concentrations that exceed applicable state and/or federal standards. Non-native fill does not trigger a regulatory reporting requirement, but may require implementation of special soil handling, management, and off-site disposal procedures if disturbed during development of the Subject Property.
Controlled Recognized Environmental Conditions (CRECs)
Langan did not identify CRECs.
Historical Recognized Environmental Conditions (HRECs)
Langan did not identify HRECs.
De Minimis Conditions
Langan did not identify de minimis conditions.
Significant Data Gaps
Langan did not identify significant data gaps.
Non-ASTM E1527-21 Scope Items
Business Environmental Risks (BERs)
Langan did not identify any BERs.

6. ENVIRONMENTAL PROFESSIONAL STATEMENT

I declare that to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR Part 312 and I have the specific qualifications based on my education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Brian Gochenaur, QEP
Associate Principal/Vice President (Environmental Professional)

Resumes outlining the qualifications of the project team and the Environmental Professional are included in Appendix G.

7. REFERENCES

Langan used the following sources to complete this Phase I ESA.

- ASTM E1527-21, Standard Practice for Environmental Property Assessments: Phase I Environmental Property Assessment Process, published 16 November 2021
- City Online Register, https://a836-acris.nyc.gov/DS/DocumentSearch/Index searched 7 August 2024
- Department of Environmental Conservation Bulk Storage Database Search, http://www.dec.ny.gov/cfmx/extapps/derexternal/index.cfm?pageid=4, searched 7 August 2024
- Department of Environmental Conservation Spills Incidents Database Search, http://www.dec.ny.gov/cfmx/extapps/derexternal/index.cfm?pageid=2, searched 7 August 2024
- EDR, Inc., Radius Map Report with GeoCheck, 29 July 2024
- EDR, Inc., City Directory Image Report, 30 July 2024
- EDR, Inc., Aerial Photographs, 30 July 2024
- EDR, Inc., Historical Topographic Map Report, 29 July 2024
- EDR, Inc., Sanborn Map Report, 31 July 2024
- New York City Department of Buildings, Building Information System, http://a810-bisweb.nyc.gov/bisweb/bsqpm01.jsp searched 7 August 2024
- New York City Planning Commission, New York City's Zoning & Land Use Map, https://zola.planning.nyc.gov/about#9.72/40.7125/-73.733, searched 7 August 2024
- PFAS Exchange GIS Webviewer, https://experience.arcgis.com/experience/12412ab41b3141598e0bb48523a7c940/
- US EPA 40 CFR Part 302 (EPA-HQ-OLEM-2019-0341; FRL-7204-03-OLEM), RIN 2050-AH09, Designation of PFOA and PFOS as CERCLA Hazardous Substances, Final Rule, 8 May 2024
- US EPA ECHO database: http://echo.epa.gov/facilities searched 9 August 2024
- US EPA ECHO: PFAS Analytic Tools - https://echo.epa.gov/trends/pfas-tools
- US EPA ENVIROFACTS database: https://www3.epa.gov/enviro/ searched 9 August 2024
- US EPA MyProperty database: https://www3.epa.gov/enviro/facts/myproperty/ searched 9 August 2024
- United States Geological Survey, Baskerville, C.A., 1994; Bedrock and engineering geologic maps of New York County and parts of Kings and Queens Counties, New York, and parts of Bergen and Hudson Counties, New Jersey

Table 7-1 Dates of Assessment Components

COMPONENT	DATE
Interviews	8/15/2024
Review of government records	7/30/2024
Site reconnaissance	8/9/2024
Declaration by Environmental Professional	9/12/2024

8. LIMITATIONS AND DEFINITIONS

This Phase I ESA report was prepared for Client and is intended to be used in its entirety. Excerpts taken from this report are not necessarily representative of the assessment findings. The Client is the sole intended beneficiary of the report. The user requested no special terms or conditions regarding this Phase I ESA.

Langan's scope of services, which is described in Section 1.2 and in the contract executed between Langan and the Client, was limited to that agreed to with the Client/user and no other services beyond those explicitly stated are implied. To the extent possible, the services performed and agreed upon for this Phase I ESA are consistent with the guidelines of ASTM E1527-21.

This report is not intended to be an exhaustive assessment of the Subject Property. The purpose of the Phase I ESA is to reduce uncertainty about unknown conditions at the Subject Property. No environmental site assessment can wholly eliminate uncertainty regarding the potential for RECs in connection with a Subject Property. Therefore, Langan cannot "verify", "insure", "certify", or "guarantee" that the Subject Property is free of environmental concerns.

No expressed or implied representation or warranty is included or intended in this report, except that our services were completed using the care and skill ordinarily followed by professionals providing similar services under similar circumstances in similar locations at the same point in time.

The conclusions provided in this report are based solely on information obtained through completing the standard activities required by ASTM E1527-21 and are intended exclusively for the purpose stated herein, at the specified Subject Property, as it existed at the point in time the assessment was completed. The conclusions provided in this report do not apply to conditions and features of which Langan was not made aware of through good faith efforts to complete the activities required by ASTM E1527-21 and did not have the opportunity to evaluate.

8.1 ASTM Definitions

The following definitions are provided in ASTM E1527-21 and presented below for reference. This section is not a comprehensive list of definitions provided in ASTM E1527-21 and is intended to summarize those pertinent to this Phase I ESA report.

Activity and use limitations (AULs): legal or physical restrictions or limitations on the use of, or access to, a site or facility: (1) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil, soil vapor, groundwater, and/or surface water on the property, or (2) to prevent activities that could interfere with the effective-ness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or engineering controls, are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products in the soil, soil vapor, groundwater, and/or surface water on a property.

Adjoining properties: any real property or properties the border of which is contiguous or partially contiguous with that of the Subject Property, or that would be contiguous or partially contiguous with that of the Subject Property but for a street, road, or other public thoroughfare separating them.

All Appropriate Inquiries: that inquiry constituting all appropriate inquiries into the previous ownership and uses of the Subject Property consistent with good commercial and customary practice as defined in CERCLA, 42 U.S.C.§ 9601(35)(B) and 40 C.F.R. Part 312, that will qualify a party to a commercial real estate transaction for one of the threshold criteria for satisfying the LLPs to CERCLA liability (42U.S.C. §§ 9601(35)(A) & (B), § 9607(b)(3), § 9607(q), and§ 9607(r)), assuming compliance with other elements of the defense.

Approximate minimum search distance: the area for which records must be obtained and reviewed pursuant to ASTM E1527-21 Section 8 subject to the limitations provided in that section. This may include areas outside the Subject Property and shall be measured from the nearest Subject Property boundary. This term is used in lieu of radius to include irregularly shaped properties.

Business environmental risk (BER): a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of commercial real estate, not necessarily related to those environmental issues required to be investigated in this practice. Consideration of BER issues may involve addressing one or more non-scope considerations.

Controlled recognized environmental condition (CREC): recognized environmental condition affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations).

Data gap: a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to, site reconnaissance (for example, an inability to conduct the site visit), and interviews (for example, an inability to interview the key site manager, regulatory officials, etc.).

De minimis condition: a condition related to a release that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A condition determined to be a de minimis condition is not a recognized environmental condition nor a controlled recognized environmental condition.

Engineering controls: physical modifications to a site or facility (for example, capping, slurry walls, or point of use water treatment) to reduce or eliminate the potential for exposure to hazardous substances or petroleum products in the soil or groundwater on a property. Engineering controls are a type of activity and use limitation (AUL).

Environment: environment shall have the same meaning as the definition of environment in CERCLA 42 U.S.C. § 9601(8).

Historical recognized environmental condition (HREC): previous release of hazardous substances or petroleum products affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the Subject Property to any controls (for example, activity and use limitations or other property use limitations). A historical recognized environmental condition is not a recognized environmental condition.

Institutional controls (IC): a legal or administrative mechanism (for example, "deed restrictions," restrictive covenants, easements, or zoning) on the use of, or access to, a site or facility to (1) reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or groundwater on the property, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. An institutional control is a type of activity and use limitation (AUL).

Key site manager: the person identified by the owner or operator of a Subject Property as having good knowledge of the uses and physical characteristics of the Subject Property.

Material threat: obvious threat which is likely to lead to a release and that, in the opinion of the environmental professional, would likely result in impact to public health or the environment.

Obvious: that which is plain or evident; a condition or fact that could not be ignored or overlooked by a reasonable observer.

Property use limitation: limitation or restriction on current or future use of a property in connection with a response to a release, in accordance with the applicable regulatory authority or authorities that allows hazardous sub-stances or petroleum products to remain in place at concentrations exceeding unrestricted use criteria.

Reasonably ascertainable: information that is (1) publicly available, (2) obtainable from its source within reasonable time and cost constraints, and (3) practically reviewable.

Recognized environmental conditions: (1) the presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the Subject Property under conditions that pose a material threat of a future release to the environment. For the purposes of this definition, "likely" is that which is neither certain nor proved, but can be expected or believed by a reasonable observer based on the logic and/or experience of the environmental professional, and/or available evidence, as stated in the report to support the opinions given therein.

Release: a release of any hazardous substance or petroleum product shall have the same meaning as the definition of "release" in CERCLA 42 U.S.C. § 9601(22). There are a number of statutory exclusions from the definition of release that may impact the environmental professional's opinions and conclusions, such as the normal application of fertilizer.

Significant data gap: a data gap that affects the ability of the environmental professional to identify a recognized environmental condition.

Site reconnaissance: that part that is contained in Section 9 of ASTM E1527-21 and addresses what should be done in connection with the site visit. The site reconnaissance includes, but is not limited to, the site visit done in connection with such a Phase I Environmental Site Assessment.

Site visit: the visit of the Subject Property during which observations are made constituting the site reconnaissance section of this practice.

Subject property: the property that is the subject of the environmental site assessment described in this practice.

User: the party seeking to use ASTM E1527-21 to complete an environmental site assessment of the Subject Property.

8.2 Standard Environmental Record Sources

Langan reviewed an environmental database search report prepared by an environmental database search provider for the Subject Property and surrounding area. The database search report includes a listing of properties identified on select federal, state, local and tribal standard source environmental databases within the approximate minimum search radii outlined in ASTM E1527-21. This information was supplied to Langan by the environmental database search provider, and to the environmental database search provider by government sources; therefore, neither Langan nor the environmental database search provider can verify the completeness and accuracy of the database information. Appendix E contains a copy of the report, with specific source and property descriptions, and the dates of the last update for each database searched. Langan reviewed the database search report on a record-by-record basis to evaluate if certain properties identified in the database report are likely to represent an environmental concern for the Subject Property. The evaluation criteria included factors such as distance, groundwater gradient, nature of the listing, and regulatory status. Unless specifically discussed in the body of this report, the facilities listed on the database do not appear to represent an environmental concern to the Subject Property.

Appendix A Figures

LANGAN

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

360 West 31st Street, 8th Floor
New York, NY 10001-2727

T: 212.479.5400 F: 212.479.5444
www.langan.com

Project	Figure Title	Project No.	Figure
PROPOSED BALLY'S CASINO – RING ROAD AT FERRY POINT PARK BRONX NEW YORK	SUBJECT PROPERTY LOCATION MAP	170773001 Date 8/9/2024 Scale 1" = 2,000 feet Drawn By MG	1

© 2023 Langan

Path: \\langan.com\data\NYC\data0\170773001\Project Data\ArcGIS\APRX\170773001\170773001.aprx

Notes:
1. Imagery provided through Langan's subscription to Nearmap.com. Flown on 06/16/24.
2. All locations of Site reconnaissance observations are approximate.

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Project	Figure Title	Project No.	Figure
PROPOSED BALLY'S CASINO – RING ROAD AT FERRY POINT PARK BRONX NEW YORK	SUBJECT PROPERTY LAYOUT	170773001	2
		Date 8/15/2024	
		Scale 1" = 300 feet	
		Drawn By MG	

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Path: \\langan.com\data\NYC\data0\170773001\Project Data\ArcGIS\APRX\170773001\170773001.aprx

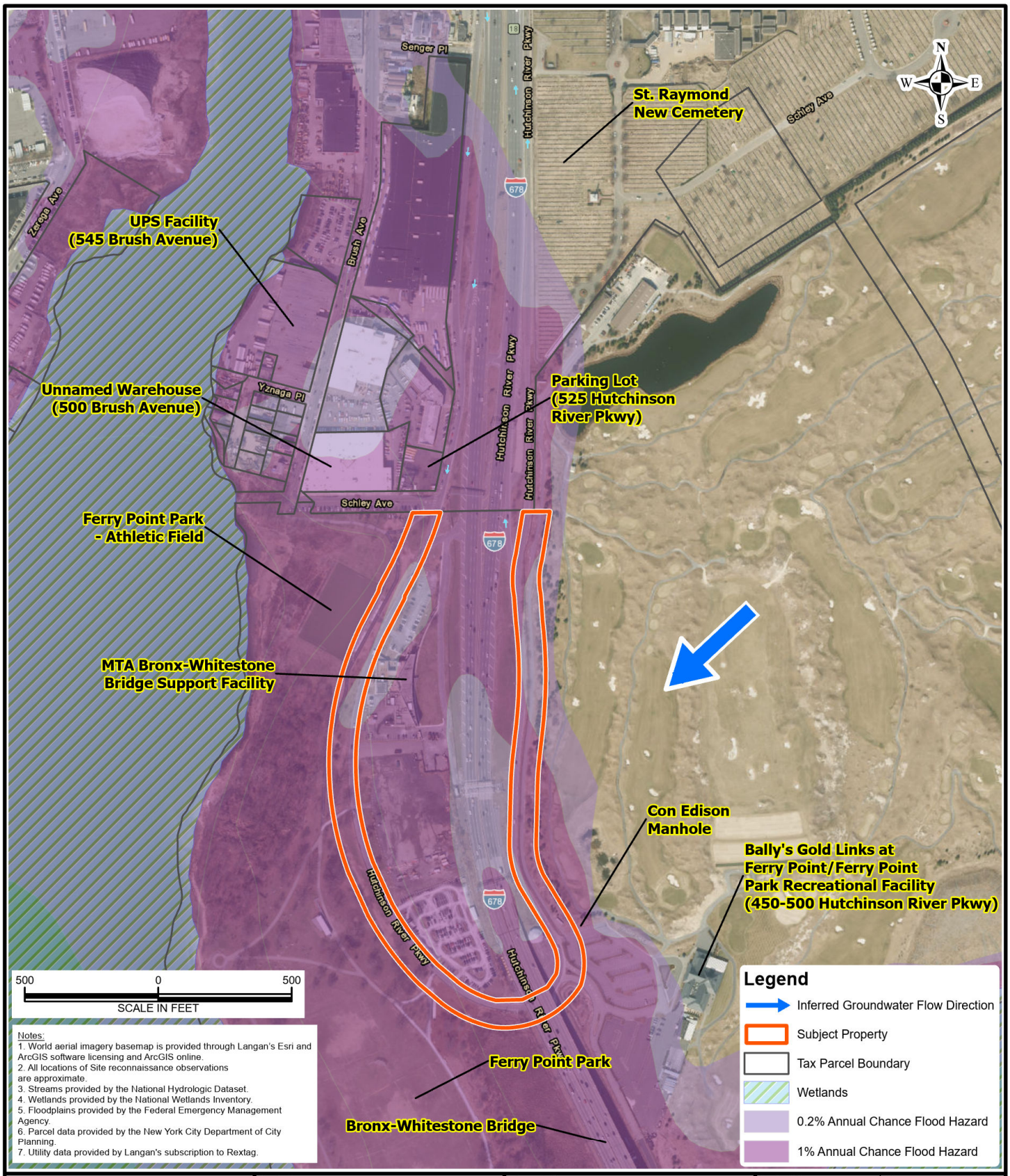

Notes:
1. World aerial imagery basemap is provided through Langan's Esri and ArcGIS software licensing and ArcGIS online.
2. All locations of Site reconnaissance observations are approximate.
3. Streams provided by the National Hydrologic Dataset.
4. Wetlands provided by the National Wetlands Inventory.
5. Floodplains provided by the Federal Emergency Management Agency.
6. Parcel data provided by the New York City Department of City Planning.
7. Utility data provided by Langan's subscription to Rextag.

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Project	Figure Title	Project No.	Figure
PROPOSED BALLY'S CASINO – RING ROAD AT FERRY POINT PARK BRONX NEW YORK	NEARBY PROPERTIES MAP	170773001	3
		Date: 9/10/2024	
		Scale: 1" = 500 feet	
		Drawn By: MG	

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Appendix B Agency Records and Other Reports

Kaitlyn Gioia

From: donotreply@records.nyc.gov
Sent: Wednesday, August 7, 2024 2:44 PM
To: Kaitlyn Gioia
Subject: [External] [OpenRecords] Request FOIL-2024-826-03671 Submitted to Department of Environmental Protection (DEP)

Your request FOIL-2024-826-03671 has been successfully submitted to the Department of Environmental Protection (DEP). The details of your request are shown below.

Request Title: Environmental Conditions

Request Description: Re: Freedom of Information Request 450 Hutchinson River Parkway Block 5622, Lot 1 Bronx, New York Langan Project No. 170773001 Dear Sir or Madam: Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting any information or copies of files regarding environmental conditions on the above property, such as environmental permits, notices of violations, spill/discharge incidents, storage or disposal of hazardous substances, Underground Storage Tanks (USTs), Leaking Underground Storage Tanks (LTANKs), asbestos abatement, and any other environmental reports that your department may have. The Subject Property is located at 450 Hutchinson River Parkway in the Bronx, New York and is identified as Tax Block 5622, Lot 1. The site is located entirely within Ferry Point Park and is bisected by Hutchinson River Expressway. Please contact me at 212-479-5531 with any questions or send your response to my attention at kgioia@langan.com or at the below address: Langan Engineering and Environmental Services, P.C. 21 Penn Plaza 360 West 31st Street, 8th floor New York, New York 10001-2727 Thank you in advance for your cooperation. Sincerely, Langan Engineering, Environmental, Surveying Landscape Architecture, and Geology, D.P.C. Kaitlyn Gioia Senior Staff Scientist

Requester's Contact Information

Name:
Kaitlyn Gioia
Title:
Senior Staff Scientist
Organization:
Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology, D.P.C.
Email:
kgioia@langan.com
Phone Number:
(212) 479-5531
Fax Number:
Not provided
Street Address (line 1):
360 West 31st Street, 8th Floor
Street Address (line 2):
Not provided
City:
New York
State:
NY
Zip Code:
10001

You can view the request and take any necessary action at the following webpage: https://a860-openrecords.nyc.gov/request/view/FOIL-2024-826-03671.

Kaitlyn Gioia

From: donotreply@records.nyc.gov
Sent: Friday, August 9, 2024 6:13 AM
To: Kaitlyn Gioia
Subject: [External] [OpenRecords] Request FOIL-2024-826-03671 Acknowledged

The Department of Environmental Protection (DEP) has **acknowledged** your FOIL request FOIL-2024-826-03671.

You can expect a response on or about Tuesday, November 12, 2024.

Please visit FOIL-2024-826-03671 to view additional information and take any necessary action.

Kaitlyn Gioia

From: donotreply@records.nyc.gov
Sent: Monday, August 12, 2024 11:30 AM
To: Kaitlyn Gioia
Subject: [External] [OpenRecords] Request FOIL-2024-826-03671 Closed

The Department of Environmental Protection (DEP) has **closed** your FOIL request FOIL-2024-826-03671 for the following reasons:

- A diligent search for records responsive to your request did not locate any such records. Accordingly, your request is denied.

You may appeal the decision to deny access to material that was redacted in part or withheld in entirety by contacting the agency's FOIL Appeals Officer: foilappeals@dep.nyc.gov within 30 days.

Kaitlyn Gioia

From: recordsaccess <recordsaccess@health.nyc.gov>
Sent: Thursday, August 8, 2024 2:32 PM
To: Philip Lynch
Cc: Kaitlyn Gioia
Subject: [External] Re: [EXTERNAL] 450 Hutchinson River Parkway, Block 5622, Lot 1, Bronx, NY

Dear Philip Lynch

The NYC Department of Health and Mental Hygiene is retuning your Freedom of Information Law request with the instructions for resubmitting it below. Please follow the instructions and we will be able to process the request. If you have any questions about these instructions, please contact the Records Access Officer at bodonnell1@health.nyc.gov

Phase I Environmental Site Assessment (ESA) Records
All data related to indoor environmental complaints is here. Before submitting a FOIL request for Environmental Site Assessment records, you must check this database to see if the site you are investigating has any entries.

1. If your site has no entries, then we have no indoor environmental complaint records and your ESA FOIL request should ***only*** concern well sites. Please see below for information on accessing other records that may be relevant to your ESA investigation.

2. If your site does have an entry or entries, you will need to provide the date(s) of the indoor environmental complaint(s) for us to locate the related records.

3. ***The Department will not process any ESA FOIL requests without the information required above.***

The following are some common environmental issues that are addressed by *other agencies* that may be relevant to your ESA investigation:

- Chemical spills that impact outdoor areas – NYS Department of Environmental Conservation (NYS DEC), NYS Department of Health, and NYC Department of Environmental Protection (NYC DEP)
- Underground storage tanks – NYS DEC and NYC DEP
- Community air impacts – NYC DEP
- Sewers – NYC DEP
- Environmental impacts to parkland – NYC Parks Department

Please contact these agencies for records. For other NYC agencies, you can submit FOIL requests here

Thank you,

FOIL Administration
Office of the General Counsel
NYC Department of Health and Mental Hygiene - City of New York
42-09 28th St.,CN30, Long Island City, NY 11101

Telephone:347-396-6116 **Fax:**347-396-6087
Email: recordsaccess@health.nyc.gov | nyc.gov/health

From: Philip Lynch <plynch@Langan.com>
Sent: Wednesday, August 7, 2024 4:56 PM
To: recordsaccess <recordsaccess@health.nyc.gov>
Cc: Kaitlyn Gioia <kgioia@langan.com>
Subject: [EXTERNAL] 450 Hutchinson River Parkway, Block 5622, Lot 1, Bronx, NY

Re: Freedom of Information Request
450 Hutchinson River Parkway
Block 5622, Lot 1
Bronx, New York
Langan Project No. 170773001

Dear Sir or Madam:

Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting any information or copies of files regarding environmental conditions on the above property, such as environmental permits, notices of violations, spill/discharge incidents, storage or disposal of hazardous substances, Underground Storage Tanks (USTs), Leaking Underground Storage Tanks (LTANKs), asbestos abatement, and any other environmental reports that your department may have. There are no listings in the database for this site. Therefore, we are looking for information on whether it is a well site.

The Subject Property is located at **450 Hutchinson River Parkway** in the **Bronx, New York** and is identified as Tax **Block 5622, Lot 1**. The site is located entirely within Ferry Point Park and is bisected by Hutchinson River Expressway.

Please contact me at 212-479-5531 with any questions or send your response to my attention at kgioia@langan.com or at the below address:

Langan Engineering and Environmental Services, P.C.
21 Penn Plaza
360 West 31st Street, 8th floor
New York, New York 10001-2727

Thank you in advance for your cooperation.

Sincerely,

Langan Engineering, Environmental, Surveying
Landscape Architecture, and Geology, D.P.C.

Kaitlyn Gioia
Senior Staff Scientist

Philip Lynch
Administrative Assistant

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Direct: 212.479.5469

Mobile: 914.882.2582
File Sharing Link

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NEW YORK NEW JERSEY CONNECTICUT MASSACHUSETTS PENNSYLVANIA VIRGINIA WASHINGTON, DC
OHIO ILLINOIS NORTH CAROLINA TENNESSEE FLORIDA TEXAS ARIZONA COLORADO UTAH WASHINGTON CALIFORNIA
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Kaitlyn Gioia

From: recordsaccess <recordsaccess@health.nyc.gov>
Sent: Tuesday, August 13, 2024 1:44 PM
To: Kaitlyn Gioia; Philip Lynch
Subject: [External] FOIL Control #: 2024FR01115

FOIL Control #: 2024FR01115

Dear Kaitlyn Gioia

The NYC Department of Health and Mental Hygiene (DOHMH) acknowledges receipt of your Freedom of Information Law request. It has been assigned the above-noted control number and has been forwarded to the following bureau for processing:

Environmental Health Services
Sheba Taylor-Medina, e-mail: staylor2@health.nyc.gov

You should receive a response from the program/bureau within twenty(20) business days. Please note that as of January 1, 2019, the Department charges the statutorily allowable fee of 25¢ per page for FOIL responses of records maintained in hard copy format only. You will be advised by the program/bureau of the fee that is due and, upon receipt of your payment by check or money order, the copies will be forwarded to you.
All inquiries about the status of your request should be made with the program/bureau and control number noted above.

Thank you,

FOIL Administration
Office of the General Counsel
NYC Department of Health and Mental Hygiene - City of New York
42-09 28th St.,CN30, Long Island City, NY 11101
Telephone:347-396-6116 **Fax:**347-396-6087
Email: recordsaccess@health.nyc.gov | nyc.gov/health

From: Kaitlyn Gioia <kgioia@langan.com>
Sent: Monday, August 12, 2024 9:30 AM
To: recordsaccess <recordsaccess@health.nyc.gov>; Philip Lynch <plynch@Langan.com>
Subject: RE: [EXTERNAL] 450 Hutchinson River Parkway, Block 5622, Lot 1, Bronx, NY

Good morning FOIL Administration team,

To clarify our request below, there are no listings in the database for this site. Therefore, we are looking for information on whether it is a well site. Let me know if you need any additional information to process this request.

Thank you!

Kaitlyn Gioia
Senior Staff Scientist

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OHIO ILLINOIS NORTH CAROLINA TENNESSEE FLORIDA TEXAS ARIZONA COLORADO UTAH WASHINGTON CALIFORNIA
ATHENS CALGARY DUBAI LONDON PANAMA

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Please contact these agencies for records. For other NYC agencies, you can submit FOIL requests here

Thank you,

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Telephone:347-396-6116 **Fax:**347-396-6087
Email: recordsaccess@health.nyc.gov | nyc.gov/health

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To: recordsaccess <recordsaccess@health.nyc.gov>
Cc: Kaitlyn Gioia <kgioia@langan.com>
Subject: [EXTERNAL] 450 Hutchinson River Parkway, Block 5622, Lot 1, Bronx, NY

Re: Freedom of Information Request
450 Hutchinson River Parkway
Block 5622, Lot 1
Bronx, New York
Langan Project No. 170773001

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360 West 31st Street, 8th floor
New York, New York 10001-2727

Thank you in advance for your cooperation.

Sincerely,

Langan Engineering, Environmental, Surveying
Landscape Architecture, and Geology, D.P.C.

Kaitlyn Gioia
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Philip Lynch
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Appendix C Site Reconnaissance Checklist and Photographs

LANGAN

PHASE I ESA SITE RECONNAISSANCE CHECKLIST

GENERAL INFORMATION
Langan personnel: Kaitlyn Gioia
Date of site reconnaissance: August 9, 2024
Business name / subject property occupant: Ferry Point Park – Ring Road
Full subject property address: 450 Hutchinson River Parkway, Bronx, NY
Weather conditions: ~80°F - Rainy

Features, Activities, Uses, and Conditions	Identified/Observed?		Report Section(s)
General Subject Property Setting	**Yes**	**No**	
Current use(s) of the subject property	☒	☐	2.0
Past use(s) of the subject property	☐	☒	3.1
Current use(s) of adjoining properties	☒	☐	4.1
Past use(s) of adjoining properties	☐	☒	4.2
Current or past uses in the surrounding area	☒	☐	4.1 and 4.2
Geologic, hydrogeologic, hydrologic, and topographic conditions	☒	☐	2.2
Structures and other improvements at the subject property	☒	☐	2.3
Roads	☒	☐	2.3
Potable water supply/source for the subject property	☒	☐	2.4
Sewage disposal system for the subject property	☐	☒	2.4

Interior/Exterior Features	At Interior?		At Exterior?		Report Section(s) (if yes)
	Yes	**No**	**Yes**	**No**	
Hazardous substances and petroleum products in connection with identified uses	☐	☒	☐	☒	2.5
Storage tanks	☐	☒	☐	☒	2.5.1 and 2.5.2
Strong, pungent, or noxious odors and their sources	☐	☒	☐	☒	2.6
Standing surface water and pools or sumps containing liquids likely to be hazardous substances or petroleum products	☐	☒	☐	☒	2.5
Drums, totes, and intermediate bulk containers	☐	☒	☐	☒	2.5.3
Hazardous substance and petroleum product containers not in connection with identified uses	☐	☒	☐	☒	2.5.4
Unidentified substance containers	☐	☒	☐	☒	2.5.4
PCB-containing items	☐	☒	☐	☒	2.5.4
Heating/cooling	☐	☒	☐	☒	2.4
Stains or corrosion on floors, walls, or ceilings	☐	☒	☐	☒	2.5 and 2.7
Drains and sumps	☐	☒	☒	☐	2.8
Pits, ponds, or lagoons	☐	☒	☐	☒	2.2.3
Stained soil or pavement	☐	☒	☐	☒	2.5 and 2.7
Stressed vegetation	☐	☒	☐	☒	2.9
Solid waste	☐	☒	☐	☒	2.7
Water/wastewater	☐	☒	☐	☒	2.8 and 2.9
Wells	☐	☒	☐	☒	2.2.3
Septic systems or cesspools	☐	☒	☐	☒	2.8

LANGAN

Site Reconnaissance Photographs

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	1

Direction Photo Taken:

South

Description:

Entrance to subject property.

Date	Photo No.
8/9/2024	2

Direction Photo Taken:

Northeast

Description:

Pedestrian walkways and guardrails throughout the subject property.

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	3

Direction Photo Taken:

Southeast

Description:

General view of the western leg of the subject property.

Date	Photo No.
8/9/2024	4

Direction Photo Taken:

East

Description:

Pedestrian walkway and adjoining parking field for Ferry Point Park.

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	5

Direction Photo Taken:

Northeast

Description:

Representative view of hydrants located throughout the subject property.

Date	Photo No.
8/9/2024	6

Direction Photo Taken:

Northeast

Description:

General view of the eastern leg of the subject property.

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	7

Direction Photo Taken:

South

Description:

Exit from the subject property.

Date	Photo No.
8/9/2024	8

Direction Photo Taken:

Northeast

Description:

Representative view of drainage structures and NYCDEP infrastructure throughout the subject property.

Date	Photo No.
8/9/2024	9

Direction Photo Taken:

Southeast, down

Description:

Representative view of 1-inch-diameter holes adjacent to the metal guardrail throughout the eastern leg of the subject property.

Date	Photo No.
8/9/2024	10

Direction Photo Taken:

East

Description:

Adjoining Bronx-Whitestone Bridge and parking field for Ferry Point Park.

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	11

Direction Photo Taken:

Northeast

Description:

Adjoining Con Edison structures.

Date	Photo No.
8/9/2024	12

Direction Photo Taken:

Northwest

Description:

Adjoining Interstate 678.

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	13

Direction Photo Taken:

East

Description:

Adjoining parking field for Ferry Point Park.

Date	Photo No.
8/9/2024	14

Direction Photo Taken:

West

Description:

Bronx-Whitestone Bridge MTA Building

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	15

Direction Photo Taken:

Southeast

Description:

Alternate view of Bronx-Whitestone Bridge MTA Building.

Date	Photo No.
8/9/2024	16

Direction Photo Taken:

Northwest

Description:

Adjoining athletic field.

Date	Photo No.
8/9/2024	17

Direction Photo Taken:

West

Description:

Adjoining commercial warehouse and parking lot.

Date	Photo No.
8/9/2024	18

Direction Photo Taken:

Northeast

Description:

Adjoining toll plaza for the Bronx-Whitestone Bridge.

Client Name:	Subject Property Location:	Project No.
Bally's Corporation	Hutchinson River Parkway, Bronx, NY	170773001

Date	Photo No.
8/9/2024	19

Direction Photo Taken:

East

Description:

Adjoining Bally's Golf Links at Ferry Point.

Date	Photo No.
8/9/2024	20

Direction Photo Taken:

East

Description:

Adjoining Ferry Point Park.

Appendix D User Provided Information

Docusign Envelope ID: 3CE5B05B-9955-4E49-BEED-0490AFAA772C

Clear Form

ASTM E1527-21 User Questionnaire

Please complete the below form and return to Langan.

Providing the following information (if available) to the environmental professional (Langan) is one of the requirements to qualify for one of the Landowner Liability Protections (LLP) offered under CERCLA. Missing or incomplete information for questions 1 through 6 could result in a determination that "all appropriate inquiry" is not complete. Additional information should be provided for "Yes" answers where relevant.

General Information

User/Client Names: Bally's Golf Links at Ferry Point

Reason for the Phase I ESA: New Gaming Resort Development

Type of property: Casino Hotel

Type of property transaction (e.g. sale, purchase, exchange): New Zoning

Subject property address (provide documentation of subject property boundary):
500 Hutchinson River Parkway Bronx, New York 10465

Site Contact and Contact Information: Brian Crowell General Manager

Relying Party(ies): _____

Required Information

(1.) Environmental liens that are filed or recorded against the subject property (40 CFR 312.25).

Did a search of recorded land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the subject property under federal, tribal, state or local law?

Yes ○ No ●

(2.) Activity and use limitations that are in place on the subject property or that have been filed or recorded against the subject property (40 CFR 312.26(a)(1)(v) and (vi)).

Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the subject property and/or have been filed or recorded against the subject property under federal, tribal, state or local law?

Yes ○ No ●

(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).

Do you have any specialized knowledge or experience related to the subject property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the subject property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

Yes ● No ○

(4.) Relationship of the purchase price to the fair market value of the subject property if it were not contaminated (40 CFR 312.29).

Does the purchase price being paid for this subject property reasonably reflect the fair market value of the subject property?

Yes ● No ○

If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the subject property?

Yes ○ No ●

Docusign Envelope ID: 3CE5B05B-9955-4E49-BEED-0490AFAA772C

(5.) Commonly known or reasonably ascertainable information about the subject property (40 CFR 312.30).

	Yes	No
Are you aware of commonly known or reasonably ascertainable information about the subject property that would help the environmental professional to identify conditions indicative of releases or threatened releases?	●	○
For example,		
(a.) Do you know the past uses of the subject property?	●	○
(b.) Do you know of specific chemicals that are present or once were present at the subject property?	○	●
(c.) Do you know of spills or other chemical releases that have taken place at the subject property?	○	●
(d.) Do you know of any environmental cleanups that have taken place at the subject property?	○	●

(6.) The degree of obviousness of the presence or likely presence of contamination at the subject property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

	Yes	No
Based on your knowledge and experience related to the subject property, are there any obvious indicators that point to the presence or likely presence of releases at the subject property?	○	●
Do you have knowledge or experience with the subject property that may be pertinent to the environmental professional (for example, copies of any available prior environmental site assessment reports, documents, correspondence, etc., concerning the property and its environmental condition)?	●	○

(7.) Proceedings Involving the Subject Property Questions (Section 10.9 of ASTM E1527-21 and Section 10.10 of ASTM E2247-16)

	Yes	No
Do you know of:		
(a.) Any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the subject property?	○	●
(b.) Any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, at, or from the subject property?	○	●
(c) Any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	○	●

Signature

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By: Mark Schlang

Print/Type Name: DocuSigned by: Mark Schlang 50B69DB17FE048C...

Title: Vice President of Architecture

Company: Bally's Corporation

Relationship to Client/User: Employee

Date: 8/16/24

LANGAN

ASTM PRACTICE E 1527-13:
OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

Project Location/Address: Ferry Point Golf Course
500 Hutchinson River Parkway, Bronx, NY 10465

ASTM E-1527-13, Section 10.9

	Yes	No
Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☒
Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	☐	☒

ASTM E-1527-13, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided
Environmental site assessment reports	☐	☐	☒
Environmental compliance audit reports	☐	☐	☒
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits)	☐	☐	☒
Registrations for underground and aboveground storage tanks	☐	☒	☐
Material safety data sheets	☐	☐	☒
Community-right-to-know plan	☒	☐	☐
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, facility response plans, etc.	☐	☐	☒

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	Unaware	Document Exists	Copy will be provided
Reports regarding hydrogeologic conditions on the property or surrounding area	☐	☐	☒
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	☒	☐	☐
Hazardous waste generator notices or reports	☐	☒	☐
Geotechnical studies	☐	☐	☒
Risk Assessments	☒	☐	☐
Recorded Activity and Use Limitations	☐	☐	☒
Environmental Cleanup Reports	☐	☐	☒

Do you have contact information for the prior owner of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Owner's Name _____

Contact person _____

Address_____

_____

Telephone _____

Do you have contact information for the prior occupant of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

Prior Occupant's Name_____

Contact person _____

Address _____

_____

Telephone _____

Do you have information on the prior facility manager of the property? **Yes** ☐ **No** ☒
If yes, please provide information below:

LANGAN

Prior Facility Manager's Name _____

Contact person _____

Address _____

_____

Telephone _____

This form was completed by:

Property Owner ☒ Operator ☐ Key Site Manager ☐ User ☐ EP ☐

Name: Kay Zias, Director of ERU, NYC Department of Parks and Recreation

Address: 117-2 Roosevelt Avenue, Flushing, NY 11368

_____

Signature: Kay Zias Date: 8/29/2024

Appendix E Environmental Database Report

Proposed Ballys Casino - Ring Road
450 Hutchinson River Parkway
Bronx, NY 10465

Inquiry Number: 7720624.2s
July 29, 2024

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

Physical Setting Source Addendum	**A-1**
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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

450 HUTCHINSON RIVER PARKWAY
BRONX, NY 10465

COORDINATES

Latitude (North):	40.8136930 - 40˚ 48' 49.29''
Longitude (West):	73.8358030 - 73˚ 50' 8.89''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	598189.6
UTM Y (Meters):	4518516.0
Elevation:	16 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	14115946 FLUSHING, NY
Version Date:	2019

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20190809
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
450 HUTCHINSON RIVER PARKWAY
BRONX, NY 10465

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1		450 HUTCHINSON RVR P	NY NYC LAND USE		TP
A2	FERRY POINT PARK REC	500 HUTCHINSON RIVER	NY SPDES	Lower	1 ft.
A3	NYSDOT BIN 55211229	1 HUTCHINSON RIVER P	FINDS	Lower	1 ft.
A4	MANHOLE 15002	80 N HUTCHINSON RIVE	NY Spills	Higher	1 ft.
A5	MTA BRIDGES & TUNNEL	BRONX-WHITESTONE BRI	RCRA-SQG, E MANIFEST, NJ MANIFEST	Lower	1 ft.
A6	NYCP&R - FERRY POINT	500 HUTCHINSON PARKW	FINDS, ECHO	Lower	1 ft.
A7	FERRY POINT PARK GOL	500 HUTCHINSON RIVER	FINDS, ECHO	Lower	1 ft.
A8	NYCP&R - FERRY POINT		PFAS ECHO	Lower	1 ft.
A9	BRONX WHITESTONE BRI	1 HUTCHINSON RIVER P	NY Spills	Lower	1 ft.
10	CON EDISON TRANSFORM	530 HUTCHINSON RIVER	NY Spills	Higher	1 ft.
A11	NYC PARKS-FERRY POIN	500 HUTCHINSON RIVER	FINDS, ECHO	Lower	1 ft.
A12	BRONX WHITESTONE BRI	1 HUTCHINSON RIVER P	UST FINDER RELEASE	Lower	1 ft.
A13	FERRY POINT PARK GOL	500 HUTCHINSON RIVER	NY Spills	Lower	1 ft.
A14	NYC PARKS-FERRY POIN		PFAS ECHO	Lower	1 ft.
B15	WHITESTONE BRIDGE -	WHITESTONE BR	NY LTANKS	Lower	109, 0.021, NNW
B16	WHITESTONE BRIDGE	TOLL PLAZA	NY Spills	Lower	109, 0.021, NNW
17	CABLEVISION	500-510 BRUSH AVENUE	NY AST	Lower	279, 0.053, NNW
C18	CON EDISON	555 HUTCHINSON RIVER	RCRA NonGen / NLR	Lower	418, 0.079, NNW
C19	VAULT #2232	555 HUTCHINSON RIVER	NY AST, NY Spills	Lower	418, 0.079, NNW
D20	BRONX WHITESTONE BRI	ONE HUTCHINSON RIVER	NY UST	Lower	434, 0.082, NW
D21	BRONX WHITESTONE BRI	ONE HUTCHINSON RIVER	NY AST	Lower	434, 0.082, NW
E22	MTA BRIDGES & TUNNEL	1 HUTCHINSON RIVER P	NY LTANKS, NY Spills, NY MANIFEST	Higher	597, 0.113, ESE
E23	FARRY POINT PARK	WHITSTONE BRIDGE	NY Spills	Higher	597, 0.113, ESE
F24	LIBERTY MECHANICAL/C	550 BRUSH AVENUE	NY TANKS, NY NYC LAND USE	Lower	601, 0.114, NNW
25	FERRY POINT PARK GOL	700 HUTCHINSON RIVER	NY AST	Lower	639, 0.121, North
E26	MTA BRIDGE BIN 55211	1 HUTCHINSON RIVER P	RCRA-LQG, E MANIFEST, PA MANIFEST, NJ MANIFEST	Higher	679, 0.129, East
F27	545 BRUSH AVE/BX/U.P	545 BRUSH AVENUE	NY LTANKS	Lower	694, 0.131, NNW
28	FERRY POINT PARK	10 HUTCHINSON ROVER	NY SWF/LF, NY ILI	Lower	728, 0.138, SSW
F29	UNITED PARCEL SERVIC	BRUSH AVE	RCRA-SQG, NY CBS AST, E MANIFEST, NY MANIFEST, NJ...	Lower	779, 0.148, NNW
F30	UPS-BRUSH AVENUE	545 BRUSH AVE	NY TANKS, NY SPDES	Lower	779, 0.148, NNW
F31	UNITED PARCEL SERVIC	545 BRUSH AVENUE	NY UST	Lower	779, 0.148, NNW
F32	UPS	545 BRUSH AVE	NY LTANKS, NY CBS, NY Spills	Lower	779, 0.148, NNW
F33	UNITED PARCEL SERVIC	545 BRUSH AVENUE	NY AST	Lower	779, 0.148, NNW
F34	UNITED PARCEL SERVIC	545 BRUSH AVENUE	NY AST	Lower	779, 0.148, NNW
F35	UNITED PARCEL SERVIC	545 BRUSH AVENUE	UST FINDER	Lower	779, 0.148, NNW
36	N Y BRUSH LLC	650 BRUSH AVE	RCRA-LQG, NY MANIFEST	Lower	1083, 0.205, NNW
37	H.O. PENN MACHINERY	699 BRUSH AVE	NY LTANKS, NY TANKS, NY Spills, NY SPDES	Lower	1664, 0.315, NNW
G38	VERIZON NEW YORK INC	500 ZEREGA AVENUE	NY LTANKS, NY TANKS, NY NYC LAND USE	Lower	1672, 0.317, NW
G39	500 ZEREGA AVENUE	500 ZEREGA AVENUE	UST FINDER RELEASE	Lower	1672, 0.317, NW

MAPPED SITES SUMMARY

Target Property Address:
450 HUTCHINSON RIVER PARKWAY
BRONX, NY 10465

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
40	NYCDOS FERRY POINT P	44 BEAVER ST - 6TH F	NY SWF/LF	Higher	1757, 0.333, South
41	RAILROAD MAINTENANCE	432 ZEREGA AVENUE	NY SWF/LF, NY NYC LAND USE	Lower	1784, 0.338, WNW
42	BLOCK 3579, LOT 1	BLOCK 3579, LOT 1	NY VCP	Lower	1906, 0.361, NNW
43	RANDALL AVE AND ZERE	HAVMEYER AVE, RANDEL	NY SWF/LF, NY ILI	Higher	1982, 0.375, NW
44	EASTERN ECOLOGY COMP	665-637 ZEREGA AVE	NY SWF/LF, NY ILI	Lower	2063, 0.391, NNW
45	EARTH BANK COMPANY I	748 BRUSH AVENUE	NY SWF/LF, NY NYC LAND USE	Higher	2155, 0.408, North
46	AAA THROGGS NECK		FUDS	Higher	4255, 0.806, East

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
450 HUTCHINSON RVR P 450 HUTCHINSON RVR P BRONX, NY 10465	NY NYC LAND USE	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL..... National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS..... Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

EXECUTIVE SUMMARY

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROLS..... Institutional Controls Sites List

Federal ERNS list

ERNS..... Emergency Response Notification System

Lists of state- and tribal hazardous waste facilities

NY SHWS..... Inactive Hazardous Waste Disposal Sites in New York State

Lists of state and tribal leaking storage tanks

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
NY HIST LTANKS..... Listing of Leaking Storage Tanks

Lists of state and tribal registered storage tanks

FEMA UST..... Underground Storage Tank Listing
NY CBS UST..... Chemical Bulk Storage Database
NY MOSF UST..... Major Oil Storage Facilities Database
NY MOSF..... Major Oil Storage Facility Site Listing
NY MOSF AST..... Major Oil Storage Facilities Database
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

NY RES DECL..... Restrictive Declarations Listing
NY ENG CONTROLS..... Registry of Engineering Controls
NY INST CONTROL..... Registry of Institutional Controls

Lists of state and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield sites

NY BROWNFIELDS..... Brownfields Site List
NY ERP..... Environmental Restoration Program Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

NY SWRCY..... Registered Recycling Facility List
NY SWTIRE..... Registered Waste Tire Storage & Facility List

EXECUTIVE SUMMARY

INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
ODI	Open Dump Inventory
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	Delisted National Clandestine Laboratory Register
NY DEL SHWS	Delisted Registry Sites
US CDL	National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

NY HIST UST	Historical Petroleum Bulk Storage Database
NY HIST AST	Historical Petroleum Bulk Storage Database

Local Land Records

NY LIENS	Spill Liens Information
LIENS 2	CERCLA Lien Information

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
NY Hist Spills	SPILLS Database
NY SPILLS 90	SPILLS 90 data from FirstSearch
NY SPILLS 80	SPILLS 80 data from FirstSearch

Other Ascertainable Records

DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations

EXECUTIVE SUMMARY

FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
MINES MRDS	Mineral Resources Data System
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
PFAS NPL	Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES	Federal Sites PFAS Information
PFAS TSCA	PFAS Manufacture and Imports Information
PFAS TRIS	List of PFAS Added to the TRI
PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR	PFAS Contamination Site Location Listing
PFAS WQP	Ambient Environmental Sampling for PFAS
PFAS NPDES	Clean Water Act Discharge Monitoring Information
PFAS PROJECT	NORTHEASTERN UNIVERSITY PFAS PROJECT
PFAS ECHO FIRE TRAIN	Facilities in Industries that May Be Handling PFAS Listing
PFAS PT 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing
BIOSOLIDS	ICIS-NPDES Biosolids Facility Data
NY PFAS	PFAS Contamination Site Location Listing
NY AIRS	Air Emissions Data
NY COAL ASH	Coal Ash Disposal Site Listing
NY DRYCLEANERS	Registered Drycleaners
NY E DESIGNATION	E DESIGNATION SITE LISTING
NY Financial Assurance	Financial Assurance Information Listing
NY HSWDS	Hazardous Substance Waste Disposal Site Inventory
NY LEAD	Lead-based Paint Testing Results
NY VAPOR REOPENED	Vapor Intrusion Legacy Site List
NY UIC	Underground Injection Control Wells
NY COOLING TOWERS	Registered Cooling Towers
NY MGP	Manufactured Gas Plants Listing
NY NYC OER	OER Cleanup Sites Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

NY RGA HWS	Recovered Government Archive State Hazardous Waste Facilities List
NY RGA LF	Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal RCRA generators

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 06/03/2024 has revealed that there are 2 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGE BIN 55211 EPA ID:: NYD982796377	***1 HUTCHINSON RIVER P***	***E 1/8 - 1/4 (0.129 mi.)***	***E26***	***96***

Lower Elevation	Address	Direction / Distance	Map ID	Page
N Y BRUSH LLC EPA ID:: NYR000140368	***650 BRUSH AVE***	***NNW 1/8 - 1/4 (0.205 mi.)***	***36***	***191***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/03/2024 has revealed that there are 2 RCRA-SQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGES & TUNNEL EPA ID:: NYR000154260	***BRONX-WHITESTONE BRI***	***0 - 1/8 (0.000 mi.)***	***A5***	***13***
UNITED PARCEL SERVIC EPA ID:: NYD986900728	***BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F29***	***127***

EXECUTIVE SUMMARY

Lists of state and tribal landfills and solid waste disposal facilities

NY SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the list.

A review of the NY SWF/LF list, as provided by EDR, and dated 03/25/2024 has revealed that there are 6 NY SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NYCDOS FERRY POINT P	44 BEAVER ST - 6TH F	S 1/4 - 1/2 (0.333 mi.)	40	211
RANDALL AVE AND ZERE	***HAVMEYER AVE, RANDEL***	***NW 1/4 - 1/2 (0.375 mi.)***	***43***	***215***
EARTH BANK COMPANY I	***748 BRUSH AVENUE***	***N 1/4 - 1/2 (0.408 mi.)***	***45***	***218***

Lower Elevation	Address	Direction / Distance	Map ID	Page
FERRY POINT PARK	***10 HUTCHINSON ROVER***	***SSW 1/8 - 1/4 (0.138 mi.)***	***28***	***125***
RAILROAD MAINTENANCE	***432 ZEREGA AVENUE***	***WNW 1/4 - 1/2 (0.338 mi.)***	***41***	***212***
EASTERN ECOLOGY COMP	***665-637 ZEREGA AVE***	***NNW 1/4 - 1/2 (0.391 mi.)***	***44***	***216***

Lists of state and tribal leaking storage tanks

NY LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the NY LTANKS list, as provided by EDR, and dated 05/06/2024 has revealed that there are 6 NY LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGES & TUNNEL	***1 HUTCHINSON RIVER P***	***ESE 0 - 1/8 (0.113 mi.)***	***E22***	***56***
Spill Date: 1994-09-19				
Spill Date: 1996-09-24				
Spill Number/Closed Date: 9408139 / 2003-11-06				
Spill Number/Closed Date: 9607895 / 2003-11-06				
Site ID: 249980				
Site ID: 249984				

Lower Elevation	Address	Direction / Distance	Map ID	Page
WHITESTONE BRIDGE -	WHITESTONE BR	NNW 0 - 1/8 (0.021 mi.)	B15	34
Spill Date: 1990-03-19				
Spill Number/Closed Date: 8912020 / 1990-03-19				
Site ID: 295754				
545 BRUSH AVE/BX/U.P	545 BRUSH AVENUE	NNW 1/8 - 1/4 (0.131 mi.)	F27	124
Spill Date: 1989-12-20				
Spill Number/Closed Date: 8909242 / 2003-02-27				
Site ID: 138397				
UPS	***545 BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F32***	***180***
Spill Date: 1989-11-17				
Spill Number/Closed Date: 8908245 / 1992-09-30				

Site ID: 212269

H.O. PENN MACHINERY	***699 BRUSH AVE***	***NNW 1/4 - 1/2 (0.315 mi.)***	***37***	***197***

Spill Date: 1992-04-20
Spill Date: 1997-01-08
Spill Number/Closed Date: 9200766 / 2003-03-07
Spill Number/Closed Date: 9612128 / 2006-12-13
Site ID: 186683
Site ID: 186684

VERIZON NEW YORK INC	***500 ZEREGA AVENUE***	***NW 1/4 - 1/2 (0.317 mi.)***	***G38***	***206***

Spill Date: 1987-08-11
Spill Number/Closed Date: 8703906 / 1996-08-06
Site ID: 270294

Lists of state and tribal registered storage tanks

NY UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the NY UST list, as provided by EDR, has revealed that there are 2 NY UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BRONX WHITESTONE BRI	ONE HUTCHINSON RIVER	NW 0 - 1/8 (0.082 mi.)	D20	44
Database: UST, Date of Government Version: 03/19/2024				
UNITED PARCEL SERVIC	545 BRUSH AVENUE	NNW 1/8 - 1/4 (0.148 mi.)	F31	175
Database: UST, Date of Government Version: 03/19/2024				

NY CBS: These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

A review of the NY CBS list, as provided by EDR, and dated 03/19/2024 has revealed that there is 1 NY CBS site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
UPS	***545 BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F32***	***180***

Facility Status: Unregulated/Closed
CBS Number: 2-000341

NY AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the NY AST list, as provided by EDR, has revealed that there are 6 NY AST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CABLEVISION	500-510 BRUSH AVENUE	NNW 0 - 1/8 (0.053 mi.)	17	36
Database: AST, Date of Government Version: 03/19/2024				

Facility Id: 2-603460				
VAULT #2232	***555 HUTCHINSON RIVER***	***NNW 0 - 1/8 (0.079 mi.)***	***C19***	***41***
Database: AST, Date of Government Version: 03/19/2024				
Facility Id: 2-062987				
BRONX WHITESTONE BRI	ONE HUTCHINSON RIVER	NW 0 - 1/8 (0.082 mi.)	D21	54
Database: AST, Date of Government Version: 03/19/2024				
Facility Id: 2-481645				
FERRY POINT PARK GOL	700 HUTCHINSON RIVER	N 0 - 1/8 (0.121 mi.)	25	91
Database: AST, Date of Government Version: 03/19/2024				
Facility Id: 2-611992				
UNITED PARCEL SERVIC	545 BRUSH AVENUE	NNW 1/8 - 1/4 (0.148 mi.)	F33	186
Database: AST, Date of Government Version: 03/19/2024				
Facility Id: 2-000341				
UNITED PARCEL SERVIC	545 BRUSH AVENUE	NNW 1/8 - 1/4 (0.148 mi.)	F34	187
Database: AST, Date of Government Version: 03/19/2024				
Facility Id: 2-601299				

NY CBS AST: Chemical Bulk Storage Database. Registration data collected as required by 6 NYCRR Part 596. It includes facilities storing hazardous substances listed in 6 NYCRR Part 597, in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size. Includes facilities registered (and closed) since effective date of CBS regulations (July 15, 1988) through the date request is processed.

A review of the NY CBS AST list, as provided by EDR, and dated 01/01/2002 has revealed that there is 1 NY CBS AST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
UNITED PARCEL SERVIC	***BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F29***	***127***
Facility Status: 1				
Facility Status: 1				
CBS Number: 2-000341				

NY TANKS: This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

A review of the NY TANKS list, as provided by EDR, has revealed that there are 2 NY TANKS sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LIBERTY MECHANICAL/C	***550 BRUSH AVENUE***	***NNW 0 - 1/8 (0.114 mi.)***	***F24***	***89***
Database: TANKS, Date of Government Version: 03/19/2024				
Facility Id: 2-080799				
Site Status: Active				
UPS-BRUSH AVENUE	***545 BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F30***	***173***
Database: TANKS, Date of Government Version: 03/19/2024				
Facility Id: 2-258180				
Site Status: Inactive				

EXECUTIVE SUMMARY

Lists of state and tribal voluntary cleanup sites

NY VCP: Voluntary Cleanup Agreements. The voluntary remedial program uses private monies to get contaminated sites remediated to levels allowing for the sites' productive use. The program covers virtually any kind of site and contamination.

A review of the NY VCP list, as provided by EDR, has revealed that there is 1 NY VCP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BLOCK 3579, LOT 1	BLOCK 3579, LOT 1	NNW 1/4 - 1/2 (0.361 mi.)	42	214
Database: VCP, Date of Government Version: 02/06/2024				
Site Code: 58877				

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

NY Spills: Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 05/06/2024 has revealed that there are 8 NY Spills sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MANHOLE 15002	80 N HUTCHINSON RIVE	0 - 1/8 (0.000 mi.)	A4	12
Spill Number/Closed Date: 0805329 / 2008-09-16				
Site ID: 402409				
Spill Date: 2008-08-07				
CON EDISON TRANSFORM	530 HUTCHINSON RIVER	0 - 1/8 (0.000 mi.)	10	27
Spill Number/Closed Date: 1000322 / 2010-04-22				
Site ID: 431484				
Spill Date: 2010-04-08				
MTA BRIDGES & TUNNEL	***1 HUTCHINSON RIVER P***	***ESE 0 - 1/8 (0.113 mi.)***	***E22***	***56***
Spill Number/Closed Date: 0100477 / 2014-03-18				
Spill Number/Closed Date: 9201985 / 2011-11-16				
Spill Number/Closed Date: 9601373 / 2011-11-16				
Spill Number/Closed Date: 9801266 / 2014-03-18				
Spill Number/Closed Date: 9303540 / 2003-11-06				
**Additional key fields are available in the Map Findings section*				
Site ID: 214399				
Site ID: 249978				
Site ID: 249983				
Site ID: 249985				
Site ID: 249979				
**Additional key fields are available in the Map Findings section*				
Spill Date: 2001-04-12				
Spill Date: 1991-06-11				
Spill Date: 1996-04-26				

Spill Date: 1998-04-24
Spill Date: 1993-06-17
**Additional key fields are available in the Map Findings section*

FARRY POINT PARK Spill Number/Closed Date: 0012477 / 2003-06-09 Site ID: 207749 Spill Date: 2001-02-21	WHITSTONE BRIDGE	ESE 0 - 1/8 (0.113 mi.)	E23	88

Lower Elevation	Address	Direction / Distance	Map ID	Page
BRONX WHITESTONE BRI Spill Number/Closed Date: 1109651 / 2012-01-18 Site ID: 457431 Spill Date: 2011-11-02	1 HUTCHINSON RIVER P	0 - 1/8 (0.000 mi.)	A9	26
FERRY POINT PARK GOL Spill Number/Closed Date: 0913675 / 2010-03-25 Site ID: 426631 Spill Date: 2010-01-10	500 HUTCHINSON RIVER	0 - 1/8 (0.000 mi.)	A13	31
WHITESTONE BRIDGE Spill Number/Closed Date: 0011525 / 2001-06-01 Site ID: 100434 Spill Date: 2001-01-25	TOLL PLAZA	NNW 0 - 1/8 (0.021 mi.)	B16	35
VAULT #2232 Spill Number/Closed Date: 0813834 / 2009-06-08 Site ID: 411543 Spill Date: 2009-03-23	***555 HUTCHINSON RIVER***	***NNW 0 - 1/8 (0.079 mi.)***	***C19***	***41***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/03/2024 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON EPA ID:: NYP004164521	555 HUTCHINSON RIVER	NNW 0 - 1/8 (0.079 mi.)	C18	39

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 01/30/2024 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AAA THROGGS NECK		E 1/2 - 1 (0.806 mi.)	46	220

EXECUTIVE SUMMARY

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 02/09/2024 has revealed that there are 4 FINDS sites within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NYSDOT BIN 55211229 Registry ID:: 110070754377	1 HUTCHINSON RIVER P	0 - 1/8 (0.000 mi.)	A3	11
NYCP&R - FERRY POINT Registry ID:: 110039573832	***500 HUTCHINSON PARKW***	***0 - 1/8 (0.000 mi.)***	***A6***	***23***
FERRY POINT PARK GOL Registry ID:: 110019713684	***500 HUTCHINSON RIVER***	***0 - 1/8 (0.000 mi.)***	***A7***	***24***
NYC PARKS-FERRY POIN Registry ID:: 110019835188	***500 HUTCHINSON RIVER***	***0 - 1/8 (0.000 mi.)***	***A11***	***28***

ECHO: ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

A review of the ECHO list, as provided by EDR, and dated 06/23/2024 has revealed that there are 3 ECHO sites within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NYCP&R - FERRY POINT Registry ID: 110039573832	***500 HUTCHINSON PARKW***	***0 - 1/8 (0.000 mi.)***	***A6***	***23***
FERRY POINT PARK GOL Registry ID: 110019713684	***500 HUTCHINSON RIVER***	***0 - 1/8 (0.000 mi.)***	***A7***	***24***
NYC PARKS-FERRY POIN Registry ID: 110019835188	***500 HUTCHINSON RIVER***	***0 - 1/8 (0.000 mi.)***	***A11***	***28***

PFAS ECHO: Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

A review of the PFAS ECHO list, as provided by EDR, and dated 07/01/2024 has revealed that there are 2 PFAS ECHO sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NYCP&R - FERRY POINT		0 - 1/8 (0.000 mi.)	A8	24
NYC PARKS-FERRY POIN		0 - 1/8 (0.000 mi.)	A14	32

EXECUTIVE SUMMARY

UST FINDER: EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

A review of the UST FINDER list, as provided by EDR, and dated 06/08/2023 has revealed that there is 1 UST FINDER site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
UNITED PARCEL SERVIC	545 BRUSH AVENUE	NNW 1/8 - 1/4 (0.148 mi.)	F35	190

UST FINDER RELEASE: US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

A review of the UST FINDER RELEASE list, as provided by EDR, and dated 06/08/2023 has revealed that there are 2 UST FINDER RELEASE sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BRONX WHITESTONE BRI	1 HUTCHINSON RIVER P	0 - 1/8 (0.000 mi.)	A12	29
500 ZEREGA AVENUE	500 ZEREGA AVENUE	NW 1/4 - 1/2 (0.317 mi.)	G39	210

E MANIFEST: EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

A review of the E MANIFEST list, as provided by EDR, and dated 07/24/2023 has revealed that there are 3 E MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGE BIN 55211	***1 HUTCHINSON RIVER P***	***E 1/8 - 1/4 (0.129 mi.)***	***E26***	***96***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGES & TUNNEL	***BRONX-WHITESTONE BRI***	***0 - 1/8 (0.000 mi.)***	***A5***	***13***
UNITED PARCEL SERVIC	***BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F29***	***127***

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, and dated 12/31/2019 has revealed that there are 3 NY MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGES & TUNNEL EPA ID: NYR000154260	***1 HUTCHINSON RIVER P***	***ESE 0 - 1/8 (0.113 mi.)***	***E22***	***56***

Lower Elevation	Address	Direction / Distance	Map ID	Page
UNITED PARCEL SERVIC	***BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F29***	***127***

EPA ID: NYD986900728				
N Y BRUSH LLC	***650 BRUSH AVE***	***NNW 1/8 - 1/4 (0.205 mi.)***	***36***	***191***
EPA ID: NYR000140368				

PA MANIFEST: Hazardous waste manifest information.

A review of the PA MANIFEST list, as provided by EDR, and dated 06/30/2018 has revealed that there is 1 PA MANIFEST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGE BIN 55211	***1 HUTCHINSON RIVER P***	***E 1/8 - 1/4 (0.129 mi.)***	***E26***	***96***
Generator EPA Id: NYD982796377				

NJ MANIFEST: Hazardous waste manifest information.

A review of the NJ MANIFEST list, as provided by EDR, and dated 12/31/2018 has revealed that there are 3 NJ MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGE BIN 55211	***1 HUTCHINSON RIVER P***	***E 1/8 - 1/4 (0.129 mi.)***	***E26***	***96***
EPA Id: NYD982796377				

Lower Elevation	Address	Direction / Distance	Map ID	Page
MTA BRIDGES & TUNNEL	***BRONX-WHITESTONE BRI***	***0 - 1/8 (0.000 mi.)***	***A5***	***13***
EPA Id: NYR000154260				
UNITED PARCEL SERVIC	***BRUSH AVE***	***NNW 1/8 - 1/4 (0.148 mi.)***	***F29***	***127***
EPA Id: NYD986900728				

NY SPDES: New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

A review of the NY SPDES list, as provided by EDR, and dated 01/12/2024 has revealed that there is 1 NY SPDES site within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FERRY POINT PARK REC	500 HUTCHINSON RIVER	0 - 1/8 (0.000 mi.)	A2	10
Permit Number: NYR10D547				

EXECUTIVE SUMMARY

NY ILI: A solid waste site priority list of mitigation and remedial activities to address sites causing, or substantially contributing to, impairments of drinking water quality. Inactive solid waste disposal sites, primarily landfills, and their potential impact on New York?s drinking water resources from site-related contaminants, with a focus on emerging contaminants.

A review of the NY ILI list, as provided by EDR, and dated 01/30/2024 has revealed that there are 3 NY ILI sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RANDALL AVE AND ZERE	*HAVMEYER AVE, RANDEL*	*NW 1/4 - 1/2 (0.375 mi.)*	*43*	*215*

Lower Elevation	Address	Direction / Distance	Map ID	Page
FERRY POINT PARK	*10 HUTCHINSON ROVER*	*SSW 1/8 - 1/4 (0.138 mi.)*	*28*	*125*
EASTERN ECOLOGY COMP	*665-637 ZEREGA AVE*	*NNW 1/4 - 1/2 (0.391 mi.)*	*44*	*216*

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 5 records.

Site Name	Database(s)
CE - ZEREGA AVE. STATION	NY SHWS
FORT SCHUYLER PARK AREA	NY SWF/LF, NY ILI
LB NORTHEAST	NY SWF/LF, NY ILI
BLOCK 5541, LOT 225 (BRUSH AVENUE	NY VCP
CE - ZEREGA AVE. STATION	NY VCP, NY MGP

OVERVIEW MAP - 7720624.2S

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

County Boundary

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Proposed Ballys Casino - Ring Road	CLIENT:	Langan Engineering, Inc.
ADDRESS:	450 Hutchinson River Parkway Bronx NY 10465	CONTACT:	Kaitlyn Gioia
		INQUIRY #:	7720624.2s
LAT/LONG:	40.813693 / 73.835803	DATE:	July 29, 2024 4:56 pm

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DETAIL MAP - 7720624.2S

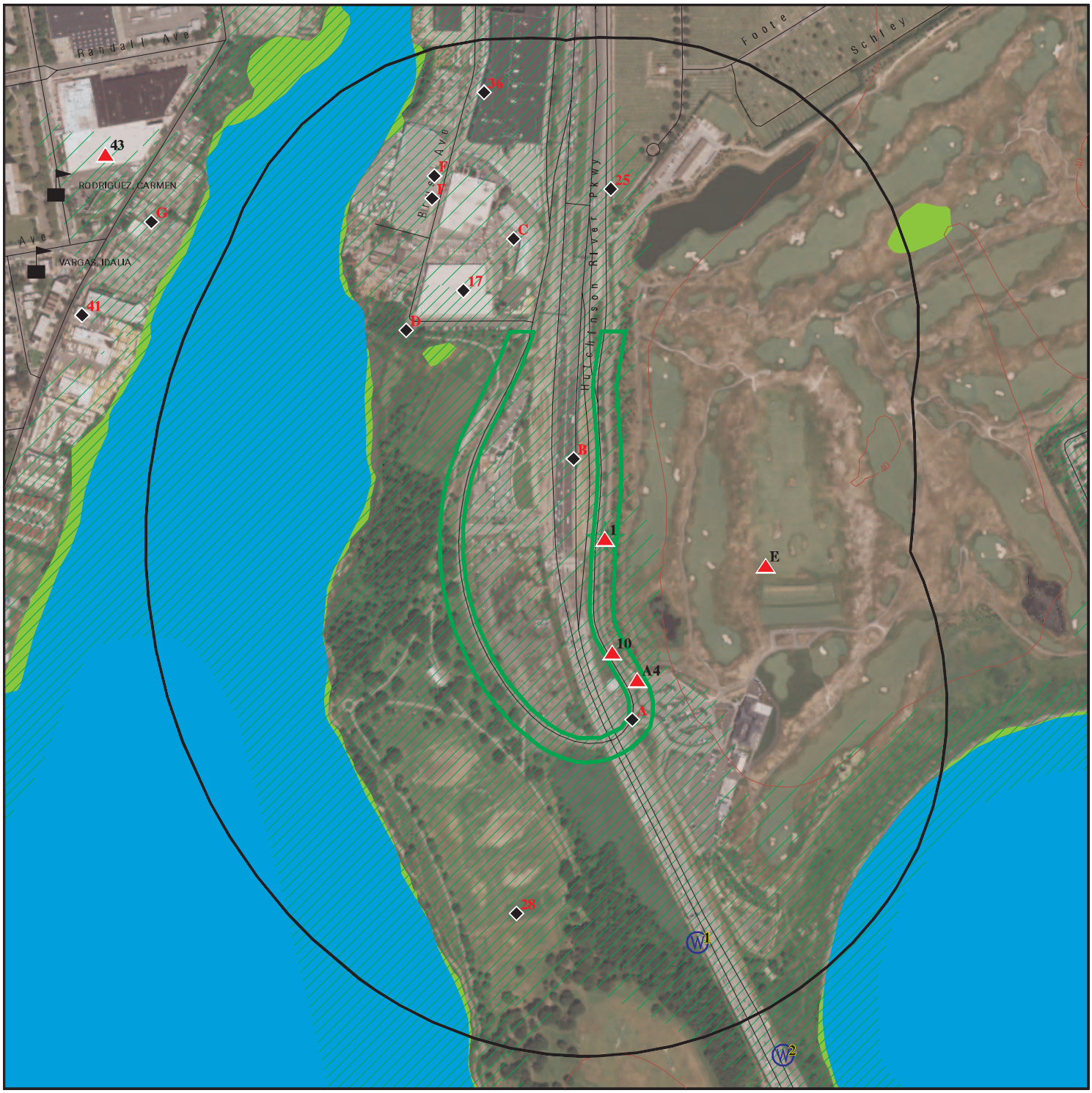

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Proposed Ballys Casino - Ring Road	CLIENT:	Langan Engineering, Inc.
ADDRESS:	450 Hutchinson River Parkway Bronx NY 10465	CONTACT:	Kaitlyn Gioia
		INQUIRY #:	7720624.2s
LAT/LONG:	40.813693 / 73.835803	DATE:	July 29, 2024 4:59 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	2	NR	NR	NR	2
RCRA-SQG	0.250		1	1	NR	NR	NR	2
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal hazardous waste facilities								
NY SHWS	1.000		0	0	0	0	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
NY SWF/LF	0.500		0	1	5	NR	NR	6
Lists of state and tribal leaking storage tanks								
INDIAN LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY LTANKS	0.500		2	2	2	NR	NR	6
NY HIST LTANKS	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
NY UST	0.250		1	1	NR	NR	NR	2
NY CBS UST	0.250		0	0	NR	NR	NR	0
NY MOSF UST	0.500		0	0	0	NR	NR	0
NY MOSF	0.500		0	0	0	NR	NR	0
NY CBS	0.250		0	1	NR	NR	NR	1
NY AST	0.250		4	2	NR	NR	NR	6
NY CBS AST	0.250		0	1	NR	NR	NR	1
NY MOSF AST	0.500		0	0	0	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
NY TANKS	0.250		1	1	NR	NR	NR	2
State and tribal institutional control / engineering control registries								
NY RES DECL	0.125		0	NR	NR	NR	NR	0
NY ENG CONTROLS	0.500		0	0	0	NR	NR	0
NY INST CONTROL	0.500		0	0	0	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
NY VCP	0.500		0	0	1	NR	NR	1
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
NY BROWNFIELDS	0.500		0	0	0	NR	NR	0
NY ERP	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
NY SWRCY	0.500		0	0	0	NR	NR	0
NY SWTIRE	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
NY DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
NY HIST UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY HIST AST	0.001		0	NR	NR	NR	NR	0
Local Land Records								
NY LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
NY Spills	0.125		8	NR	NR	NR	NR	8
NY Hist Spills	0.125		0	NR	NR	NR	NR	0
NY SPILLS 90	0.125		0	NR	NR	NR	NR	0
NY SPILLS 80	0.125		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	0	NR	NR	NR	1
FUDS	1.000		0	0	0	1	NR	1
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
FINDS	0.001		4	NR	NR	NR	NR	4
ECHO	0.001		3	NR	NR	NR	NR	3
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS PROJECT	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		2	0	NR	NR	NR	2
PFAS ECHO FIRE TRAIN	0.250		0	0	NR	NR	NR	0
PFAS PT 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	0.001		0	NR	NR	NR	NR	0
UST FINDER	0.250		0	1	NR	NR	NR	1
UST FINDER RELEASE	0.500		1	0	1	NR	NR	2
E MANIFEST	0.250		1	2	NR	NR	NR	3
NY PFAS	0.250		0	0	NR	NR	NR	0
NY AIRS	0.001		0	NR	NR	NR	NR	0
NY COAL ASH	0.500		0	0	0	NR	NR	0
NY DRYCLEANERS	0.250		0	0	NR	NR	NR	0
NY E DESIGNATION	0.125		0	NR	NR	NR	NR	0
NY Financial Assurance	0.001		0	NR	NR	NR	NR	0
NY HSWDS	0.500		0	0	0	NR	NR	0
NY LEAD	0.001		0	NR	NR	NR	NR	0
NY MANIFEST	0.250		1	2	NR	NR	NR	3
PA MANIFEST	0.250		0	1	NR	NR	NR	1
NJ MANIFEST	0.250		1	2	NR	NR	NR	3
NY SPDES	0.001		1	NR	NR	NR	NR	1
NY VAPOR REOPENED	0.500		0	0	0	NR	NR	0
NY UIC	0.001		0	NR	NR	NR	NR	0
NY COOLING TOWERS	0.001		0	NR	NR	NR	NR	0
NY MGP	1.000		0	0	0	0	NR	0
NY NYC LAND USE	TP	1	NR	NR	NR	NR	NR	1
NY ILI	0.500		0	1	2	NR	NR	3
NY NYC OER	1.000		0	0	0	0	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
NY RGA HWS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY RGA LF	0.001		0	NR	NR	NR	NR	0
- Totals --		1	32	21	11	1	0	66

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1 **NY NYC LAND USE** **S131152834**
Target Property **450 HUTCHINSON RVR PKWY** **N/A**
BRONX, NY 10465

Actual: 16 ft.

NYC LAND USE:

Name:	Not reported
Address:	450 HUTCHINSON RVR PKWY
City,State,Zip:	BRONX, NY 10465
Latitude:	40.8112977
Longitude:	-73.8344543
Type Of Ownership Code:	C
Owner Name:	NYC DEPARTMENT OF PARKS AND RECREATION
Borough:	BX
Tax Block:	5622
Tax Lot:	1
Community District:	210
Census Tract 2020:	2011000
Census Block 2020:	20110001004
Census Tract 2010:	110
Census Block 2010:	1012
School District:	08
City Council District:	13
Fire Company:	E072
Police Precinct:	45
Health Center District:	26
Health Area:	3220
Sanitation District Boro:	2
Sanitation District Number:	10
Sanitation Subsection:	3C
Zoning District 1:	PARK: Areas designated as PARK, BALL FIELD, PLAYGROUND and PUBLIC SPACE in NYC Zoning Districts
Zoning District 2:	Not reported
Zoning District 3:	Not reported
Zoning District 4:	Not reported
Commercial Overlay 1:	Not reported
Commercial Overlay 2:	Not reported
Special Purpose District 1:	Not reported
Special Purpose District 2:	Not reported
Special Purpose District 3:	Not reported
Limited Height District:	Not reported
Spill Boundary Indicator:	N
Building Class:	Q5: OUTDOOR RECREATION FACILITIES - Golf Course
Land Use Category:	Open Space & Outdoor Recreation
Number Of Easements:	0
Lot Area:	4225328
Total Building Floor Area:	14681
Commercial Floor Area:	14681
Residential Floor Area:	0
Office Floor Area:	2150
Retail Floor Area:	0
Garage Floor Area:	0
Storage Floor Area:	0
Factory Floor Area:	0
Other Floor Area:	0
Total Building Floor Area Source Code:	2
Number Of Buildings:	11
Number Of Floors:	1.0000000
Residential Units:	0
Total Units:	2

(Continued) **S131152834**

Lot Frontage:	97.0000000
Lot Depth:	3400.0000000
Building Frontage:	65.5000000
Building Depth:	35.5000000
Extension Code:	N
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	5
Basement Type/Grade:	0
Assessed Land Value:	40660411.00000
Assessed Total Value:	49656361.00000
Exempt Total Value:	49656361.00000
Year Built:	2014
Year Altered 1:	2010
Year Altered 2:	2017
Historic District Name:	Not reported
Landmark Status:	Not reported
Built Floor Area Ratio:	0.00000000000
Maximum Allowable Residential Far:	0.00000000000
Maximum Allowable Commercial Far:	0.00000000000
Maximum Allowable Community Facility Far:	0.00000000000
Boro Code:	2
Borough, Tax Block and Lot:	2056220001.00000000
Condominium Number:	Not reported
Census Tract 2:	0110
X Coordinate:	1030076
Y Coordinate:	234898
Zoning Map #:	7a
Zoning Map Code:	Y
Sanborn Map #:	221 081
Tax Map #:	21809
E-designation Number:	Not reported
Apportionment BBL:	Not reported
Apportionment Date:	Not reported
Pluto ??? Dtm Base Map Indicator:	1
2007 Flood Insurance Rate Map Indicator:	1
2015 Preliminary Flood Insurance Rate Map Indicator:	1
Version Number:	24v1.1
Changed By DCP:	t

A2 **FERRY POINT PARK RECREATIONAL FAC** **NY SPDES** **S123252664**
500 HUTCHINSON RIVER PKWY **N/A**
< 1/8 **BRONX, NY 10465**
1 ft.

Site 1 of 12 in cluster A

Relative: **Lower**
Actual: **13 ft.**

SPDES:

Name:	Ferry Point Park Recreational Fac
Address:	500 HUTCHINSON RIVER PKWY
City,State,Zip:	BRONX, NY 10465
Permit Number:	NYR10D547
State-Region:	Not reported
Expiration Date:	Not reported
Current Major Minor Status:	Not reported
Primary Facility SIC Code:	Not reported
State Water Body Name:	Not reported
Limit Set Status Flag:	Not reported

FERRY POINT PARK RECREATIONAL FAC (Continued) **S123252664**

Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	598455 / 4518240
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	Not reported
Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Not reported
Non-Gov Facility Org Formal Name:	Not reported
Non-Gov Facility Street Address:	Not reported
Non-Gov Facility Supplemental Location:	Not reported
Non-Gov Facility City:	Not reported
Non-Gov Facility State Code:	Not reported
Non-Gov Facility Zip Code:	Not reported
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Facility Type:	Not reported

A3 **NYSDOT BIN 55211229 - BRONX WHITESTONE BRIDGE** **FINDS** **1026425532**
1 HUTCHINSON RIVER PKWY **N/A**
< 1/8 **BRONX, NY 10465**
1 ft.

Site 2 of 12 in cluster A

Relative: FINDS:
Lower Registry ID: 110070754377

Actual:
12 ft. Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
All generators and treatment, storage, and disposal (TSD) facilities who handle hazardous waste are required to report to the EPA Administrator at least once every two years. The data collected is used to create the National Biennial Resource Conservation and Recovery Act (RCRA) Hazardous Waste Report. This data is processed within the RCRA Information (RCRAInfo) database

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A4 **MANHOLE 15002** **NY Spills** **S109206979**
80 N HUTCHINSON RIVER PKW **N/A**
< 1/8 **BRONX, NY**
1 ft.

Site 3 of 12 in cluster A

Relative:
Higher

Actual:
17 ft.

SPILLS:

Name:	MANHOLE 15002
Address:	80 N HUTCHINSON RIVER PKW
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0805329 / 2008-09-16
Facility ID:	0805329
Facility Type:	ER
DER Facility ID:	351615
Site ID:	402409
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	0301
Spill Date:	2008-08-07
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	2008-08-08
CID:	404
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-08-08
Spill Record Last Update:	2008-09-16
Spiller Name:	ERTSDESK
Spiller Company:	MANHOLE 15002
Spiller Address:	80 N HUTCHINSON RIVER PKW
Spiller Company:	001
Contact Name:	ERTSDESK
DEC Memo:	09/19/08 - See eDocs for Con Ed report detailing cleanup and closure. 9/16/08 - Austin - oil cleaned up - closed
Remarks:	unknown oil on 4000g of water; contained to a manhole; con ed 213035

All Materials:

Site ID:	402409
Operable Unit ID:	1159168
Operable Unit:	01
Material ID:	2150279
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	25.00
Units:	G
Recovered:	.00
Resource Affected:	Surface Water
Oxygenate:	Not reported

A5 **MTA BRIDGES & TUNNELS (BWB)** **RCRA-SQG** **1010566779**
BRONX-WHITESTONE BRIDGE **E MANIFEST** **NYR000154260**
< 1/8 **BRONX, NY 10465** **NJ MANIFEST**
1 ft.

Site 4 of 12 in cluster A

Relative:
Lower

Actual:
11 ft.

RCRA Listings:

Date Form Received by Agency:	20071210
Handler Name:	Whitestone Bridge Facility
Handler Address:	Hutchinson River Pkwy
Handler City,State,Zip:	BRONX, NY 10465-1857
EPA ID:	NYR000154260
Contact Name:	GEORGE BASSIL
Contact Address:	MTA BRGS & TUNLS R MOSES BLDG
Contact City,State,Zip:	NEW YORK, NY 10035-5199
Contact Telephone:	212-360-4165
Contact Fax:	Not reported
Contact Email:	GBASSIL@MTABT.ORG
Contact Title:	Not reported
EPA Region:	02
Land Type:	State
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ny
State District:	NYSDEC R2
Mailing Address:	MTA BRGS & TUNLS R MOSES BLDG
Mailing City,State,Zip:	NEW YORK, NY 10035-5199
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste
Waste Code:	D008
Waste Description:	Lead
Waste Code:	D018
Waste Description:	Benzene

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	TRIBOROUGH BRIDGE & TUNNEL AUTH (TBTA)
Legal Status:	State
Date Became Current:	19500525
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	MTA BRIDGES AND TUNNELS (TBTA)
Legal Status:	State
Date Became Current:	19500525
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20071210
Handler Name:	WHITESTONE BRIDGE FACILITY
Federal Waste Generator Description:	Small Quantity Generator

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20071211
Handler Name:	WHITESTONE BRIDGE FACILITY
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	48849
NAICS Description:	OTHER SUPPORT ACTIVITIES FOR ROAD TRANSPORTATION

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

E MANIFEST:

Manifest Tracking Number:	022176541JJK
Last Updated Date:	20210519
Shipped Date:	20210427
Received Date:	20210427
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYR000154260
Generator Name:	Mta Bridges & Tunnels (Bwb)
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRONX-WHITESTONE BRIDGE
Generator Mail Street 2:	Not reported
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRONX-WHITESTONE BRIDGE
Generator Location Street 2:	Not reported
Generator Location City:	BRONX
Generator Location Zip:	10465

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD002200046
Designated Facility Name:	Cycle Chem, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	217 SOUTH FIRST STREET
Designated Facility Mail City:	ELIZABETH
Designated Facility Mail Zip:	07206
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	217 SOUTH FIRST STREET
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	ELIZABETH
Designated Facility Location Zip:	07206
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Federal Waste:

Manifest Tracking Number:	022176541JJK
Waste Line Number:	1
Federal Waste Code:	D001
Federal Waste:	IGNITABLE WASTE

Manifest Tracking Number:	022176541JJK
Waste Line Number:	1
Federal Waste Code:	D018
Federal Waste:	BENZENE

State Waste:

Manifest Tracking Number:	022176541JJK
Waste Line Number:	1
State Waste Code Owner:	NY
State Waste Code:	B
State Waste:	Incineration, heat recovery, burning. Waste management method code to be used on e-Manifest only

Transporter:

Manifest Tracking Number:	022176541JJK
Transporter Line Number:	1
Transporter EPA ID:	NJD003812047
Transporter Name:	Acv Environmental Services, Inc

Waste Line:

Manifest Tracking Number:	022176541JJK
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	UN2583
U.S. DOT Description:	Rq, Un1993, Waste Flammable Liquids, N.O.S. (Gasoline, Diesel Fuel), 3 , Ii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	1
Container Type Code:	DF

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Container Type Description:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	417
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.2085
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.2085
Waste Quantity, in Kilograms:	189.11575
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	189.11575
Management Method Code:	H061
Management Method Description:	FUEL BLENDING
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

NJ MANIFEST:

EPA ID:	NYR000154260
Name:	WHITESTONE BRIDGE FACILITY
Address:	1 HUTCHINSON RIVER PKWY
City,State,Zip:	BRONX, NY 10465-1857
County:	Not reported
Mailing Address:	MTA BRGS & TUNLS R MOSES BLDG
Mailing City,State,Zip:	NEW YORK, NY 10035-5199
Telephone:	Not reported
Emergency Telephone:	Not reported
Contact:	GEORGE BASSIL
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPAID:	Not reported
Generator Flag:	Not reported
Transporter Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest Data:

EPA ID:	NYR000154260
Manifest Number:	003534721JJK
Date Shipped:	5/4/2011
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H141
Quantity:	55.00
Unit:	Pounds

EPA ID:	NYR000154260
Manifest Number:	010913928JJK
Date Shipped:	11/4/2013
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	600.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	300.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
EPA ID:	NYR000154260
Manifest Number:	010913928JJK
Date Shipped:	11/4/2013
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	600.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	300.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
EPA ID:	NYR000154260
Manifest Number:	010913928JJK
Date Shipped:	11/4/2013
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	600.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	300.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
EPA ID:	NYR000154260
Manifest Number:	015626081JJK
Date Shipped:	3/30/2016
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

EPA ID:	NYR000154260
Manifest Number:	015626081JJK
Date Shipped:	3/30/2016
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported

MTA BRIDGES & TUNNELS (BWB) (Continued) **1010566779**

Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

A6 **NYCP&R - FERRY POINT WATERFRONT PARK** **FINDS** **1012241816**
500 HUTCHINSON PARKWAY **ECHO** **N/A**
< 1/8 **BRONX, NY 10465**
1 ft.

Site 5 of 12 in cluster A

Relative:
Lower

Actual:
14 ft.

FINDS:
Registry ID: 110039573832

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
All generators and treatment, storage, and disposal (TSD) facilities who handle hazardous waste are required to report to the EPA Administrator at least once every two years. The data collected is used to create the National Biennial Resource Conservation and Recovery Act (RCRA) Hazardous Waste Report. This data is processed within the RCRA Information (RCRAInfo) database
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1012241816
Registry ID:	110039573832
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110039573832
Name:	NYCP&R - FERRY POINT WATERFRONT PARK
Address:	500 HUTCHINSON PARKWAY
City,State,Zip:	BRONX, NY 10465

A7 **FERRY POINT PARK GOLF COURSE** **FINDS** **1007808831**
500 HUTCHINSON RIVER PKWY **ECHO** **N/A**
< 1/8 **BRONX, NY 10465**
1 ft.

Site 6 of 12 in cluster A

Relative: **Lower**
Actual: **13 ft.**

FINDS:
Registry ID: 110019713684

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The New York Department of Environmental Conservation Facility Information System (FIS) database houses all information about facilities that are regulated or of environmental interest to the state of New York.
The National Pollutant Discharge Elimination System (NPDES) module of the Integrated Compliance Information System (ICIS). Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1007808831
Registry ID:	110019713684
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110019713684
Name:	FERRY POINT PARK GOLF COURSE
Address:	500 HUTCHINSON RIVER PKWY
City,State,Zip:	BRONX, NY 10465

A8 **NYCP&R - FERRY POINT WATERFRONT PARK** **PFAS ECHO** **1027398622**
N/A
< 1/8 **BRONX, NY**
1 ft.

Site 7 of 12 in cluster A

Relative: **Lower**
Actual: **14 ft.**

PFAS ECHO:

Name:	NYCP&R - FERRY POINT WATERFRONT PARK
Address:	Not reported
City,State,Zip:	BRONX, NY
Latitude:	40.81146
Longitude:	-73.83536
Count:	1
County:	BRONX
Status:	Active
Region:	02
Industry:	Waste Management
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110039573832
Facility Percent Minority:	77.092
Facility Derived Tribes:	-
Facility Population:	21838.56
EPA Programs:	RCRA
Federal Facility:	No
Federal Agency:	-
Facility FIPS Code:	36005
Facility Indian Country Flag:	N

NYCP&R - FERRY POINT WATERFRONT PARK (Continued) **1027398622**

Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	02030102
Facility Derived WBD:	020301020105
Facility Derived CD113:	14
Facility Derived CB2010:	360050110001012
Facility Major Flag:	-
Facility Active Flag:	Y
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AIR IDS:	-
CAA Permit Types:	-
CAA NAICS:	-
CAA SICS:	-
NPDES IDS:	-
CWA Permit Types:	-
CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	NYR000168286
RCRA Permit Types:	LQG
RCRA NAICS:	562212
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-
TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	-
EJSCREEN Flag US:	N

EJSCREEN Report:

A9 **BRONX WHITESTONE BRIDGE FACILITY** **NY Spills** **S111158225**
1 HUTCHINSON RIVER PKWY **N/A**
< 1/8 **BRONX, NY**
1 ft.

Site 8 of 12 in cluster A

Relative:
Lower

Actual:
11 ft.

SPILLS:

Name:	BRONX WHITESTONE BRIDGE FACILITY
Address:	1 HUTCHINSON RIVER PKWY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	1109651 / 2012-01-18
Facility ID:	1109651
Facility Type:	ER
DER Facility ID:	411910
Site ID:	457431
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	2011-11-02
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	2011-11-02
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2011-11-02
Spill Record Last Update:	2012-01-18
Spiller Name:	PASHKO CAMAJ
Spiller Company:	MTA BRIDGES AND TUNNELS
Spiller Address:	1 HUTCHINSON RIVER PKWY
Spiller Company:	999
Contact Name:	PASHKO CAMAJ
DEC Memo:	Sangesland spoke to Pashko from MTA. He said the site has a 1000 gal buried gasoline tank. Vapor recovery line was pitched the wrong way and gasoline condensed and eventually leaked out of the line into the pea gravel. Franklin Company has been hired to deal with the cleanup and repairs. 12/28/2011 Sangesland spoke to Martin Wozolowski at Liro Engineering. He said F & N did the work supervised by Liro Engineer. Vacuumed out the water from the tank/lines. Found staining in the pea gravel. Vac truck pulled out groundwater from the area around the tank. Removed 3 yards of contaminated pea gravel/stone. Then took 2 ground water samples. One sample was totally clean, the other had a single hit for Benzene. They will submit this report within the next couple of days and request closure. Report dated Jan 3, 2012 submitted by LiRo Engineers Inc. summarized all of this work. Minor Hit for Benzene. OK to close out.

BRONX WHITESTONE BRIDGE FACILITY (Continued) **S111158225**

Remarks: from vapor recovery line from fill station - repairs and cleanup in progress

All Materials:

Site ID:	457431
Operable Unit ID:	1207557
Operable Unit:	01
Material ID:	2204834
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Soil
Oxygenate:	Not reported

---

10 **CON EDISON TRANSFORMER POLE 9572** **NY Spills** **S110307850**
530 HUTCHINSON RIVER PARKWAY **N/A**
< 1/8 **BRONX, NY**
1 ft.

Relative:
Higher

Actual:
16 ft.

SPILLS:

Name:	CON EDISON TRANSFORMER POLE 9572
Address:	530 HUTCHINSON RIVER PARKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	1000322 / 2010-04-22
Facility ID:	1000322
Facility Type:	ER
DER Facility ID:	380458
Site ID:	431484
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	2010-04-08
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	2010-04-08
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2010-04-08
Spill Record Last Update:	2010-04-22
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller Company:	Not reported
Contact Name:	ERT

CON EDISON TRANSFORMER POLE 9572 (Continued) **S110307850**

DEC Memo: 4/8/10-Vought-Duty desk officer. Called Con Ed ERT (212-580-8383) and spoke to Tony Delgado, 21
gallons on asphalt and 4 gallons on soil. No PCB concentrations on file and will be treated as
50-499. Transformer on public property. Endpoint samples will be collected upon determination of
PCB concentrations or EPA Method 8100. Spill assigned to DEC Feroze as part of routine Con Ed
portfolio review and possible closure. Vought received second call from and spoke to Con Ed
Delagado and transformer installed in 1992 and had non-PCB dielectric fluid. Initial EMIS #220992
deleted from proxy and put into e-docs. 4/22/10 - Austin - Pole Transformer leak on soil and
sidewalk, no other impacts- spill contained and cleaned up by Con Ed - see eDocs for more details -
Spill closed - end

Remarks: unknown pcb's onto ashalt. Contained and clean up pending

All Materials:

Site ID:	431484
Operable Unit ID:	1182953
Operable Unit:	01
Material ID:	2177145
Material Code:	0541A
Material Name:	dielectric fluid
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	25.00
Units:	G
Recovered:	Not reported
Resource Affected:	Soil, Impervious Surface
Oxygenate:	Not reported

A11 **NYC PARKS-FERRY POINT PARK** **FINDS** **1016137063**
500 HUTCHINSON RIVER PKWY **ECHO** **N/A**
< 1/8 **BRONX, NY 10465**
1 ft.

Site 9 of 12 in cluster A

Relative: **Lower**
Actual: **13 ft.**

FINDS:
Registry ID: 110019835188

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
ICIS-Air (AIR) AIR is the modernization of the Air Facility System (AFS) into the Integrated Compliance Information System (ICIS). AIR contains enforcement, compliance, and permit data for stationary sources of air pollution regulated by the EPA, State, and Local air pollution agencies.
The New York Department of Environmental Conservation Facility Information System (FIS) database houses all information about facilities that are regulated or of environmental interest to the state of New York.
The Air Facility System (AFS) contains compliance and permit data for stationary sources of air pollution regulated by the EPA, state, and local air pollution agencies.

NYC PARKS-FERRY POINT PARK (Continued) **1016137063**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1016137063
Registry ID:	110019835188
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110019835188
Name:	NYC PARKS-FERRY POINT PARK
Address:	500 HUTCHINSON RIVER PKWY
City,State,Zip:	BRONX, NY 10465

A12 **BRONX WHITESTONE BRIDGE** **UST FINDER RELEASE** **1029062796**
1 HUTCHINSON RIVER PKWAY **N/A**
< 1/8 **BRONX, NY 0**
1 ft.

Site 10 of 12 in cluster A

Relative:
Lower

Actual:
11 ft.

UST FINDER RELEASE:

Object ID:	260443
Facility ID:	NY177640
Lust ID:	NY9408139
Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY 0
Address Match Type:	StreetAddress
Reported Date:	1994/09/19 15:59:59+00
Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	0
Domestic Wells within 1500ft:	0
Land Use:	Developed, Medium Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	2
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	Geocode
X Coord:	-73.8356199999999
Y Coord:	40.8111200000001
Latitude:	40.81112
Longitude:	-73.83562

Object ID:	260444
Facility ID:	NY177640

BRONX WHITESTONE BRIDGE (Continued) **1029062796**

Lust ID:	NY9607895
Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY 0
Address Match Type:	StreetAddress
Reported Date:	1996/09/24 15:59:59+00
Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	0
Domestic Wells within 1500ft:	0
Land Use:	Developed, Medium Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	2
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	Geocode
X Coord:	-73.8356199999999
Y Coord:	40.8111200000001
Latitude:	40.81112
Longitude:	-73.83562

Object ID:	260529
Facility ID:	NY177640
Lust ID:	NY100477
Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY 0
Address Match Type:	Not reported
Reported Date:	2001/04/12 15:59:59+00
Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	0
Domestic Wells within 1500ft:	0
Land Use:	Non-Developed
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported

BRONX WHITESTONE BRIDGE (Continued) **1029062796**

WHPA HUC12:	Not reported
Within 100yr Floodplain:	Yes
Tribe:	Not reported
EPA Region:	2
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	State
X Coord:	-73.8318
Y Coord:	40.8050000000001
Latitude:	40.805
Longitude:	-73.8318

A13 **FERRY POINT PARK GOLF COURSE** **NY Spills** **S110243664**
500 HUTCHINSON RIVER PARKWAY **N/A**
< 1/8 **BRONX, NY**
1 ft.

Site 11 of 12 in cluster A

Relative: **Lower**
Actual: **13 ft.**

SPILLS:

Name:	FERRY POINT PARK GOLF COURSE
Address:	500 HUTCHINSON RIVER PARKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0913675 / 2010-03-25
Facility ID:	0913675
Facility Type:	ER
DER Facility ID:	375501
Site ID:	426631
DEC Region:	2
Spill Cause:	Other
Spill Class:	Not reported
SWIS:	0301
Spill Date:	2010-01-10
Investigator:	RVKETANI
Referred To:	Not reported
Reported to Dept:	2010-03-25
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2010-03-25
Spill Record Last Update:	2010-03-25
Spiller Name:	Not reported
Spiller Company:	FUEL OIL COMPANY
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	ROBERT GANTZER
DEC Memo:	3/25/10 - Raphael Ketani. The spill happened on 1/10/10, but wasn't called in until today. According to Robert Gantzer (347) 386-5695 of the NYC Parks

FERRY POINT PARK GOLF COURSE (Continued) **S110243664**

Department, a generator was being filled with diesel and it overflowed onto the bare ground (see pictures in E-docs and report). The affected area was 10' by 20'. He said that Marc Redis of the DEC Div. of Solid Waste told him to clean it up. Mr. Redis was at the site because it's a Part 360 site. The cleanup was undertaken during January, but it wasn't discovered until sometime later (Mr. Gantzer didn't specify how much later) that there was more contamination below ground. So more digging took place. He said that they dug down one and a half feet to remove all of the contamination, and all of the contaminated soil was put into drums. I told Mr. Gantzer that, in the future, a spill has to be reported to the Spills Hotline within 2 hours of the occurrence. He said that he will report quickly next time. I spoke to Mr. Redis. He said that the Parks Department did dig out the area. As the contaminated soil has been remediated, I am closing the case. 3/25/10-Vought-Matter referred to Solid Waste who will supervise cleanup as per DEC Austin.

Remarks: CLEANUP DONE - MATERIAL IN DRUMS

All Materials:

Site ID:	426631
Operable Unit ID:	1182307
Operable Unit:	01
Material ID:	2176470
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5.00
Units:	G
Recovered:	Not reported
Resource Affected:	Soil
Oxygenate:	Not reported

A14 **NYC PARKS-FERRY POINT PARK** **PFAS ECHO** **1027398613**
N/A

< 1/8
1 ft.

BRONX, NY

Site 12 of 12 in cluster A

Relative:
Lower

Actual:
14 ft.

PFAS ECHO:

Name:	NYC PARKS-FERRY POINT PARK
Address:	Not reported
City,State,Zip:	BRONX, NY
Latitude:	40.81146
Longitude:	-73.83536
Count:	1
County:	BRONX
Status:	Inactive
Region:	02
Industry:	Waste Management
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110019835188

NYC PARKS-FERRY POINT PARK (Continued) **1027398613**

Facility Percent Minority:	77.092
Facility Derived Tribes:	-
Facility Population:	21838.56
EPA Programs:	CAA
Federal Facility:	No
Federal Agency:	-
Facility FIPS Code:	36005
Facility Indian Country Flag:	N
Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	02030102
Facility Derived WBD:	020301020105
Facility Derived CD113:	14
Facility Derived CB2010:	360050110001012
Facility Major Flag:	-
Facility Active Flag:	-
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	Y
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AIR IDS:	NY0000002600600014
CAA Permit Types:	Minor Emissions
CAA NAICS:	999999
CAA SICS:	4953
NPDES IDS:	-
CWA Permit Types:	-
CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	-
RCRA Permit Types:	-
RCRA NAICS:	-
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-
TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	-

NYC PARKS-FERRY POINT PARK (Continued) **1027398613**

EJSCREEN Flag US: N

EJSCREEN Report:

B15 **WHITESTONE BRIDGE - BX** **NY LTANKS** **S102671512**
NNW **WHITESTONE BR** **N/A**
< 1/8 **BRONX (County), NY**
0.021 mi.
109 ft. **Site 1 of 2 in cluster B**

Relative:
Lower

Actual:
15 ft.

LTANKS:

Name:	WHITESTONE BRIDGE - BX
Address:	WHITESTONE BR
City,State,Zip:	NY
Spill Number/Closed Date:	8912020 / 1990-03-19
Facility ID:	8912020
Site ID:	295754
Spill Date:	1990-03-19
Spill Cause:	Tank Overfill
Spill Source:	Commercial Vehicle
Spill Class:	Not reported
Cleanup Ceased:	1990-03-19
SWIS:	0301
Investigator:	TAYLOR
Referred To:	Not reported
Reported to Dept:	1990-03-19
CID:	Not reported
Water Affected:	EAST RIVER
Spill Notifier:	Federal Government
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	True
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1990-03-19
Spill Record Last Update:	1990-05-09
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	239341
DEC Memo:	Not reported
Remarks:	COMMERCIAL VEHICLE PULLED OFF ROAD SPILLING OIL FROM SADDLE TK INTO DRAIN - NYFD HOSED SPILLAGE INTO ROADWAY DRAIN - NO RESPONSE FROM DEC NECESSARY.

All Materials:

Site ID:	295754
Operable Unit ID:	937785
Operable Unit:	01
Material ID:	441502
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported

WHITESTONE BRIDGE - BX (Continued) **S102671512**

Material FA:	Petroleum
Quantity:	65.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

B16
NNW
< 1/8
0.021 mi.
109 ft.

WHITESTONE BRIDGE
TOLL PLAZA
BRONX, NY

Site 2 of 2 in cluster B

NY Spills **S104952344**
N/A

Relative:
Lower

Actual:
15 ft.

SPILLS:

Name:	WHITESTONE BRIDGE
Address:	TOLL PLAZA
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0011525 / 2001-06-01
Facility ID:	0011525
Facility Type:	ER
DER Facility ID:	89172
Site ID:	100434
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	2001-01-25
Investigator:	KMFOLEY
Referred To:	Not reported
Reported to Dept:	2001-01-25
CID:	205
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2001-01-25
Spill Record Last Update:	2001-08-13
Spiller Name:	SAME
Spiller Company:	CON ED
Spiller Address:	4 IRVING PLACE
Spiller Company:	001
Contact Name:	CALLER
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was FOLEY CON ED E2MIS REPORT 1-25-01 1pt. of dielectric fluid spilled from switch in customer owned vault #2635 onto floor of vault. No environmental impact. Samples will be taken and tag placed. 1-25-01 Job closed out because it was opened on the wrong site. It should have been opened on the BEDS. The new incident # is 135220 on BxEDS.
Remarks:	VAULT 2635, HAS LEAK ON SWITCH. CON ED # 135216.

WHITESTONE BRIDGE (Continued) **S104952344**

All Materials:

Site ID:	100434
Operable Unit ID:	833575
Operable Unit:	01
Material ID:	541834
Material Code:	0541A
Material Name:	dielectric fluid
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

---

17 NNW < 1/8 0.053 mi. 279 ft. **CABLEVISION** **NY AST** **U003397186**
500-510 BRUSH AVENUE **N/A**
BRONX, NY 10465

Relative: Lower
Actual: 8 ft.

AST:

Name:	CABLEVISION
Address:	500-510 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-603460
Program Type:	PBS
UTM X:	597921.36616
UTM Y:	4519027.86794
Expiration Date:	05/05/2028
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	25376
Affiliation Type:	Mail Contact
Company Name:	DE-CON REALTY COMPANY
Contact Type:	Not reported
Contact Name:	MICHAEL P. CONTILLO
Address1:	550 BRUSH AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10465
Country Code:	001
Phone:	(718) 490-1444
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-03-07

Site Id:	25376
Affiliation Type:	Facility Operator
Company Name:	CABLEVISION
Contact Type:	Not reported

CABLEVISION (Continued) **U003397186**

Contact Name:	CABLEVISION
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 991-6000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-03-07

Site Id:	25376
Affiliation Type:	Emergency Contact
Company Name:	500 BRUSH LLC
Contact Type:	Not reported
Contact Name:	MICHAEL P. CONTILLO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(516) 626-2418
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-03-07

Site Id:	25376
Affiliation Type:	Facility Owner
Company Name:	500 BRUSH LLC
Contact Type:	OWNER
Contact Name:	MICHAEL P. CONTILLO
Address1:	550 BRUSH AVENUE
Address2:	Not reported
City:	BRONX
State:	NY
Zip Code:	10465
Country Code:	001
Phone:	(718) 409-1444
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MFLEONAR
Date Last Modified:	2018-03-07

Tank Info:

Tank Number:	001
Tank Id:	54442
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

E01 - Piping Secondary Containment - Diking (AG only)

CABLEVISION (Continued) **U003397186**

C01 - Pipe Location - Aboveground
I05 - Overfill - Vent Whistle
A01 - Tank Internal Protection - Epoxy Liner
G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None

Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	03/01/1989
Capacity Gallons:	3000
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	#2 fuel oil (on-site consumption)

Tank Number:	002
Tank Id:	54443
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

A01 - Tank Internal Protection - Epoxy Liner
G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
E01 - Piping Secondary Containment - Diking (AG only)
I05 - Overfill - Vent Whistle
C01 - Pipe Location - Aboveground
F00 - Pipe External Protection - None
J02 - Dispenser - Suction Dispenser
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None

Tank Location:	Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	03/01/1989
Capacity Gallons:	3000
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported

CABLEVISION (Continued) **U003397186**

Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	#2 fuel oil (on-site consumption)

C18 NNW < 1/8 0.079 mi. 418 ft. **CON EDISON** **RCRA NonGen / NLR** **1012185619**
555 HUTCHINSON RIVER PKWY **NYP004164521**
BRONX, NY 10451

Site 1 of 2 in cluster C

Relative: Lower

Actual: 8 ft.

RCRA Listings:

Date Form Received by Agency:	20160601
Handler Name:	Con Edison
Handler Address:	Hutchinson River Pkwy
Handler City,State,Zip:	BRONX, NY 10451
EPA ID:	NYP004164521
Contact Name:	DAVID DUKE
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	917-559-8971
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Ny
State District:	NYSDEC R2
Mailing Address:	4 IRVING PL, RM 828
Mailing City,State,Zip:	NEW YORK, NY 10003
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline

CON EDISON (Continued) **1012185619**

202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20160602
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Historic Generators:

Receive Date:	20090324
Handler Name: CON EDISON	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20160601
Handler Name: CON EDISON	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations:	No Violations Found

CON EDISON (Continued) **1012185619**

Evaluation Action Summary:
Evaluations: No Evaluations Found

C19 NNW < 1/8 0.079 mi. 418 ft. **VAULT #2232** **NY AST** **U003383789**
555 HUTCHINSON RIVER PKWY **NY Spills** **N/A**
BRONX, NY

Site 2 of 2 in cluster C

Relative: Lower

Actual: 8 ft.

AST:

Name:	CAPRI WHITESTONE LLC
Address:	555 HUTCHINSON RIVER PARKWAY
City,State,Zip:	BRONX, NY 10465
Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-062987
Program Type:	PBS
UTM X:	598079.55693
UTM Y:	4519027.24774
Expiration Date:	11/13/2024
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	1219
Affiliation Type:	Mail Contact
Company Name:	CAPRI WHITESTONE LLC
Contact Type:	Not reported
Contact Name:	DAVID AZMAN
Address1:	325 EAST 104TH STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10029
Country Code:	001
Phone:	(212) 220-2569
EMail:	DAZMAN@LIBERTY1GROUP.COM
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2019-10-07

Site Id:	1219
Affiliation Type:	Facility Operator
Company Name:	555 HUTCHINSON RIVER PARKWAY
Contact Type:	Not reported
Contact Name:	CAPRI WHITESTONE LLC
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 597-0600
EMail:	Not reported
Fax Number:	Not reported
Modified By:	ACDANIEL
Date Last Modified:	2018-07-11

VAULT #2232 (Continued) **U003383789**

Site Id:	1219
Affiliation Type:	Emergency Contact
Company Name:	CAPRI WHITESTONE LLC
Contact Type:	Not reported
Contact Name:	DAVID AZMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(212) 220-2569
EMail:	Not reported
Fax Number:	Not reported
Modified By:	ACDANIEL
Date Last Modified:	2018-07-11

Site Id:	1219
Affiliation Type:	Facility Owner
Company Name:	CAPRI WHITESTONE LLC
Contact Type:	CAPRI WHITESTONE LLC MEMBER
Contact Name:	DAVID AZMAN
Address1:	325 EAST 104TH STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10029
Country Code:	001
Phone:	(212) 996-6456
EMail:	Not reported
Fax Number:	Not reported
Modified By:	ACDANIEL
Date Last Modified:	2018-07-11

Tank Info:

Tank Number:	001
Tank Id:	2261
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

H99 - Tank Leak Detection - Other
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
K00 - Spill Prevention - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
E00 - Piping Secondary Containment - None
G03 - Tank Secondary Containment - Vault (w/o access)
L09 - Piping Leak Detection - Exempt Suction Piping

Tank Location: Aboveground - contact with soil.... Tank bottom rests on soil, allowing no visual inspection.

VAULT #2232 (Continued) **U003383789**

Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	06/20/1975
Capacity Gallons:	6000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	#2 fuel oil (on-site consumption)

SPILLS:

Name:	VAULT #2232
Address:	555 HUTCHINSON RIVER PKWY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0813834 / 2009-06-08
Facility ID:	0813834
Facility Type:	ER
DER Facility ID:	360753
Site ID:	411543
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	2009-03-23
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	2009-03-23
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2009-03-23
Spill Record Last Update:	2009-06-08
Spiller Name:	ERT
Spiller Company:	CON ED
Spiller Address:	555 HUTCHINSON RIVER PKWY
Spiller Company:	999
Contact Name:	ERT
DEC Memo:	5/11/09 - Austin - EMIS reports that vault was cleaned and washed, with proper disposal for fluids - all within vault - close - end
Remarks:	CALLER STATES THAT DUE TO A BROKEN FEEDER ABOUT 5 GALLONS OF PRODUCT IS SPILLING TO THE VAULT. UNK IF IT CONTAINES PCBS CLEAN UP AND REPAIR PENDING.

All Materials:

Site ID:	411543

VAULT #2232 (Continued) **U003383789**

Operable Unit ID:	1168016
Operable Unit:	01
Material ID:	2159633
Material Code:	0020A
Material Name:	transformer oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5.00
Units:	G
Recovered:	.00
Resource Affected:	Not reported
Oxygenate:	Not reported

D20 **BRONX WHITESTONE BRIDGE** **NY UST** **U004062136**
NW **ONE HUTCHINSON RIVER PARKWAY** **N/A**
< 1/8 **BRONX, NY 10465**
0.082 mi.
434 ft. **Site 1 of 2 in cluster D**

Relative:
Lower

Actual:
6 ft.

UST:

Name:	BRONX WHITESTONE BRIDGE
Address:	ONE HUTCHINSON RIVER PARKWAY
City,State,Zip:	BRONX, NY 10465
Id/Status:	2-481645 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	09/06/2025
UTM X:	597911.06250
UTM Y:	4519009.50000
Site Type:	Other

Affiliation Records:

Site Id:	21547
Affiliation Type:	Mail Contact
Company Name:	MTA BRIDGES & TUNNELS (TBTA)
Contact Type:	Not reported
Contact Name:	PASHKO R. CAMAJ MGR. S&H COMPLIANCE
Address1:	SAFETY & HEALTH DEPT.
Address2:	ROBERT MOSES BLDG, ROOM 115
City:	RANDALLS ISLAND
State:	NY
Zip Code:	10035
Country Code:	001
Phone:	(212) 360-3073
EMail:	PCAMAJ@MTABT.ORG
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2020-09-03

Site Id:	21547
Affiliation Type:	Facility Owner
Company Name:	MTA BRIDGES AND TUNNELS (TBTA)
Contact Type:	MANAGER
Contact Name:	GEORGE BASSIL
Address1:	2 BROADWAY
Address2:	Not reported

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

City:	NEW YORK
State:	NY
Zip Code:	10004
Country Code:	001
Phone:	(212) 360-3073
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2020-09-03

Site Id:	21547
Affiliation Type:	Emergency Contact
Company Name:	MTA BRIDGES AND TUNNELS (TBTA)
Contact Type:	Not reported
Contact Name:	PASHKO R. CAMAJ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(212) 360-3073
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2015-09-01

Site Id:	21547
Affiliation Type:	Facility Operator
Company Name:	BRONX WHITESTONE BRIDGE
Contact Type:	Not reported
Contact Name:	GEORGE BASSIL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 904-4304
EMail:	Not reported
Fax Number:	Not reported
Modified By:	AYLAGATI
Date Last Modified:	2017-06-07

Tank Info:

Tank Number:	1
Tank ID:	65746
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	12/01/1941
Date Tank Closed:	04/01/2001
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MJGRIFFI
Last Modified: 05/09/2022

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number: 10
Tank ID: 65755
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 2000
Install Date: 03/01/1995
Date Tank Closed: 04/06/2009
Registered: True
Tank Location: Underground
Tank Type: Equivalent technology
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MJGRIFFI
Last Modified: 05/09/2022

Equipment Records:

I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
H05 - Tank Leak Detection - In-Tank System (ATG)
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A03 - Tank Internal Protection - Fiberglass Liner (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number: 11
Tank ID: 65756

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	20000
Install Date:	12/17/1999
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	2711
Common Name of Substance:	Biodiesel (Heating, On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
F04 - Pipe External Protection - Fiberglass
J02 - Dispenser - Suction Dispenser
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
C02 - Pipe Location - Underground/On-ground
E04 - Piping Secondary Containment - Double walled UG
H05 - Tank Leak Detection - In-Tank System (ATG)
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number:	12
Tank ID:	65757
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	1000
Install Date:	12/17/1999
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	21
Date Test:	01/20/2012
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

E04 - Piping Secondary Containment - Double walled UG
K01 - Spill Prevention - Catch Basin

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

L09 - Piping Leak Detection - Exempt Suction Piping
I02 - Overfill - High Level Alarm
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
F04 - Pipe External Protection - Fiberglass
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
H05 - Tank Leak Detection - In-Tank System (ATG)
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number:	13
Tank ID:	65758
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	2500
Install Date:	12/17/1999
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	2710
Common Name of Substance:	Biodiesel
Tightness Test Method:	21
Date Test:	01/20/2012
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

L09 - Piping Leak Detection - Exempt Suction Piping
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
B04 - Tank External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
J02 - Dispenser - Suction Dispenser
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
E04 - Piping Secondary Containment - Double walled UG
H05 - Tank Leak Detection - In-Tank System (ATG)
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number:	14
Tank ID:	65759
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	2500
Install Date:	06/01/1996
Date Tank Closed:	05/08/2006

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0008
Common Name of Substance:	Diesel
Tightness Test Method:	21
Date Test:	08/07/2003
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

E04 - Piping Secondary Containment - Double walled UG
K01 - Spill Prevention - Catch Basin
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
J02 - Dispenser - Suction Dispenser
F04 - Pipe External Protection - Fiberglass
C02 - Pipe Location - Underground/On-ground
I02 - Overfill - High Level Alarm
B04 - Tank External Protection - Fiberglass
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A03 - Tank Internal Protection - Fiberglass Liner (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number:	2
Tank ID:	65747
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	12/01/1941
Date Tank Closed:	04/01/2001
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

H00 - Tank Leak Detection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

Tank Number:	3
Tank ID:	65748
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	3000
Install Date:	12/01/1941
Date Tank Closed:	05/01/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

F00 - Pipe External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None

Tank Number:	4
Tank ID:	65749
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	3000
Install Date:	12/01/1941
Date Tank Closed:	04/04/1994
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None

Tank Number:	5
Tank ID:	65750
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	01/01/1950
Date Tank Closed:	12/16/1993
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron

Tank Number:	6
Tank ID:	65751
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	01/01/1950
Date Tank Closed:	12/16/1993
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

Equipment Records:

F00 - Pipe External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None

Tank Number:	7
Tank ID:	65752
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	12/01/1987
Date Tank Closed:	05/01/1998
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
I04 - Overfill - Product Level Gauge (A/G)
D10 - Pipe Type - Copper

Tank Number:	8
Tank ID:	65753
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	12/01/1941
Date Tank Closed:	05/01/1996
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel

BRONX WHITESTONE BRIDGE (Continued) **U004062136**

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
I04 - Overfill - Product Level Gauge (A/G)

Tank Number:	9
Tank ID:	65754
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	12/01/1941
Date Tank Closed:	05/01/1996
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0008
Common Name of Substance:	Diesel

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

B00 - Tank External Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
I04 - Overfill - Product Level Gauge (A/G)

D21 NW < 1/8 0.082 mi. 434 ft. | **BRONX WHITESTONE BRIDGE**
ONE HUTCHINSON RIVER PARKWAY
BRONX, NY 10465

Site 2 of 2 in cluster D

NY AST | **A100293375**
N/A

Relative: Lower

Actual: 6 ft.

AST:

Name:	BRONX WHITESTONE BRIDGE
Address:	ONE HUTCHINSON RIVER PARKWAY
City,State,Zip:	BRONX, NY 10465
Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-481645
Program Type:	PBS
UTM X:	597911.06250
UTM Y:	4519009.50000
Expiration Date:	09/06/2025
Site Type:	Other

Affiliation Records:

Site Id:	21547
Affiliation Type:	Mail Contact
Company Name:	MTA BRIDGES & TUNNELS (TBTA)
Contact Type:	Not reported
Contact Name:	PASHKO R. CAMAJ MGR. S&H COMPLIANCE
Address1:	SAFETY & HEALTH DEPT.
Address2:	ROBERT MOSES BLDG, ROOM 115
City:	RANDALLS ISLAND
State:	NY
Zip Code:	10035
Country Code:	001
Phone:	(212) 360-3073
EMail:	PCAMAJ@MTABT.ORG
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2020-09-03

Site Id:	21547
Affiliation Type:	Facility Owner
Company Name:	MTA BRIDGES AND TUNNELS (TBTA)
Contact Type:	MANAGER
Contact Name:	GEORGE BASSIL
Address1:	2 BROADWAY
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10004
Country Code:	001
Phone:	(212) 360-3073
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2020-09-03

Site Id:	21547
Affiliation Type:	Emergency Contact
Company Name:	MTA BRIDGES AND TUNNELS (TBTA)
Contact Type:	Not reported
Contact Name:	PASHKO R. CAMAJ

BRONX WHITESTONE BRIDGE (Continued) **A100293375**

Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(212) 360-3073
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2015-09-01

Site Id:	21547
Affiliation Type:	Facility Operator
Company Name:	BRONX WHITESTONE BRIDGE
Contact Type:	Not reported
Contact Name:	GEORGE BASSIL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 904-4304
EMail:	Not reported
Fax Number:	Not reported
Modified By:	AYLAGATI
Date Last Modified:	2017-06-07

Tank Info:

Tank Number:	15
Tank Id:	209252
Material Code:	2711
Common Name of Substance:	Biodiesel (Heating, On-Site Consumption)

Equipment Records:

	F00 - Pipe External Protection - None
	K99 - Spill Prevention - Other
	E01 - Piping Secondary Containment - Diking (AG only)
	L00 - Piping Leak Detection - None
	G01 - Tank Secondary Containment - Diking (Aboveground)
	H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
	A00 - Tank Internal Protection - None
	B01 - Tank External Protection - Painted/Asphalt Coating
	D01 - Pipe Type - Steel/Carbon Steel/Iron
	I04 - Overfill - Product Level Gauge (A/G)
	J00 - Dispenser - None
	C01 - Pipe Location - Aboveground
Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	12/17/1999
Capacity Gallons:	900

BRONX WHITESTONE BRIDGE (Continued) **A100293375**

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	diesel

E22
ESE
< 1/8
0.113 mi.
597 ft.

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY
1 HUTCHINSON RIVER PKWY
BRONX, NY 10465

NY LTANKS **S102150368**
NY Spills **N/A**
NY MANIFEST

Site 1 of 3 in cluster E

Relative:
Higher

Actual:
32 ft.

LTANKS:

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9408139 / 2003-11-06
Facility ID:	9408139
Site ID:	249980
Spill Date:	1994-09-19
Spill Cause:	Tank Test Failure
Spill Source:	Non Major Facility > 1,100 gal
Spill Class:	C3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	JMROMMEL
Referred To:	Not reported
Reported to Dept:	1994-09-19
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1994-10-28
Spill Record Last Update:	2004-06-21
Spiller Name:	GEORGE BASIL
Spiller Company:	TRIBOROUGH AUTHORITY
Spiller Address:	RANDALL'S ISLAND
Spiller County:	001
Spiller Contact:	ROBERT TOZZI
Spiller Phone:	(718) 904-4304
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	177640
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL This site was reassigned from Sigona to Rommel on 1/7/2004. This spill site investigation has been consolidated under Spill No. 9801266.
Remarks:	TTF WILL UNDERCOVER & ISOLATE, RETEST

All TTF:

Facility ID:	9408139

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Spill Number:	9408139
Spill Tank Test:	1543152
Site ID:	249980
Tank Number:	001
Tank Size:	550
Material:	Not reported
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	01
Test Method 2:	Petro-Tite/Petro Comp
Leak Rate:	-.11
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

Facility ID:	9408139
Spill Number:	9408139
Spill Tank Test:	1543153
Site ID:	249980
Tank Number:	002
Tank Size:	550
Material:	Not reported
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	01
Test Method 2:	Petro-Tite/Petro Comp
Leak Rate:	-.11
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	249980
Operable Unit ID:	1005783
Operable Unit:	01
Material ID:	377581
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9607895 / 2003-11-06
Facility ID:	9607895
Site ID:	249984

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Spill Date:	1996-09-24
Spill Cause:	Tank Test Failure
Spill Source:	Non Major Facility > 1,100 gal
Spill Class:	B3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1996-09-24
CID:	322
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1996-09-24
Spill Record Last Update:	2004-06-21
Spiller Name:	BOBBIE ATHEY
Spiller Company:	MTA BRIDGES & TUNNLE
Spiller Address:	RANDALLS ISLAND
Spiller County:	001
Spiller Contact:	PAUL STEFANESCU
Spiller Phone:	(212) 360-2924
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	177640
DEC Memo:	Not reported
Remarks:	Tank Test Failure Tank No. 2 also tested - Leak rate -.106 they will uncover, isolate and retest

All TTF:

Facility ID:	9607895
Spill Number:	9607895
Spill Tank Test:	1544776
Site ID:	249984
Tank Number:	Not reported
Tank Size:	0
Material:	0008
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	01
Test Method 2:	Petro-Tite/Petro Comp
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	249984
Operable Unit ID:	1038996
Operable Unit:	01
Material ID:	347151
Material Code:	0008

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

SPILLS:

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0100477 / 2014-03-18
Facility ID:	0100477
Facility Type:	ER
DER Facility ID:	177640
Site ID:	214399
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	2001-04-12
Investigator:	RVKETANI
Referred To:	031814 CASE APPROVED FOR CLOSURE
Reported to Dept:	2001-04-12
CID:	397
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	0
Date Entered In Computer:	2001-04-12
Spill Record Last Update:	2014-03-18
Spiller Name:	GEORGE BASIL
Spiller Company:	MTA BRIDGES & TUNNELS
Spiller Address:	RANDALLS ISLAND
Spiller Company:	001
Contact Name:	GEORGE BASIL
DEC Memo:	10/18/05: This spill was originally closed by Anthony Sigona as part of a consolidation effort. The spill was reassigned to Tibbe. The investigation (approved by Sigona)that was performed was inadequate to identify the existance of contamination. The spill has been re-opened and further investigation is necessary. 11/12/10 - spill re-assigned from Tibbe to Joe O'Connell 11/16/11 - Raphael Ketani. I tried to contact Colleen Channer of the Triborough Bridge and Tunnel Authority (TBTA) (212) 878-1035, but I could only leave a message with her secretary. Her mailing address is: MTA Legal Department, 347 Madison Avenue, 9th Floor, NY, 10017. The

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

TBTA is part of the MTA.
11/17/11 - Raphael Ketani. I spoke to Ms. Channer. I told her that the DEC still had two open spill
cases, #0100477 and #9801266, and that we were seeking documentation for these cases. I told her
that the spills may involve tanks 1 to 4 on the west side of the northern approach to the bridge.
She said that she will look for the documentation and get back to me.
1/13/12 - Raphael Ketani. Ms.
Channer (212) 878-1035 called me. She said that she had found some documentation for cases #0100477
and #9801266. We went over the documents that she had and that the DEC had. Some were the same. I
told her that #0100477 was open because the consultant used the TCLP method to process the samples,
rather than methods 8260 and 8270, and because not enough samples were taken and no groundwater
samples were taken in the vicinity of tanks 1 and 2. I added that #9801266 was open because the
source of the free floating product that had entered a utility vault was never found. Tanks 3, 4,
and 7 had been removed in the nineteen nineties. However a full soil and groundwater investigation,
and transmission lines investigation for product had never been done. Ms. Channer asked that I send
the MTA a letter indicating the work that needs to be done and which documents the DEC still needs.
Her address is: Senior Environmental Counsel, MTA,347 Madison Avenue, 9th Floor, NY, 10017. 1/17/12
- Raphael Ketani. I sent a letter to Ms. Channer requesting that the MTA submit a work plan to
conduct a soil and groundwater investigation in the vicinity of the former locations of USTs #1 and
#2. I also put in the letter a request for a work plan to conduct an investigation of the former
vicinity of USTs #3, #4 and #7 (spill #9801266). 1/19/12 - Raphael Ketani. I was notified that
Peter Bass, Director of the Environmental Policy and Compliance group at the MTA, should also
receive a copy of the letter to Ms. Channer. So I sent the letter to him. His address is also 347
Madison Avenue. 1/30/12 - Raphael Ketani. Ms. Channer and the MTA environmental engineer, George
Bassil, called me today to request an extension for submitting the work plan as their consultant
was heavily involved with another MTA project and could not devote much attention to the Whitestone
Bridge projects. I granted the MTA a two month extension of the deadline for submitting the work
plan. This set a deadline of April 16. Mr. Bassil's contact information is: MTA, 2 Broadway, 23rd
Floor, NY, 10004, (646) 252-7020. 4/25/12 - Raphael Ketani. Today I received 4/16/12 Environmental
Site Investigation Work Plan from LiRo Engineers. I began my review. 5/15/12 - Raphael Ketani. I
finished my review of the ESIWP. LiRo proposed to perform 6 soil borings. Three in the vicinity of

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

the grave for the former tank #3 and its general spill area, and three in the vicinity of the grave
for the former tank #2 and its general spill area. Soil and groundwater samples will be collected.
The soil sample with the highest PID reading will be submitted for analysis and one groundwater
sample from each boring. Samples will be analyzed for STARS list VOCs by method 8260 and for STARS
list SVOCs by method 8270. The results will be compared to CP-51 standards. I disapproved the
ESIWP. First, the list of analytes to be tested should be the expanded lists for VOCs and SVOCs.
Secondly, there were not enough borings planned to properly cover each spill area. Lastly, the
areas affected by the spills need to be delineated. I drafted a disapproval letter for the review
of Hassan Hussein, EE III and head of the Hazardous Materials Unit. I set a deadline of June 22 for
the submission of a revised SIWP. Mr. Hussein approved the letter and it was sent out today.
5/18/12 - Raphael Ketani. Mr. Wesolowski of LiRo Engineering (718) 321-3136, ext 242 called me
today regarding my 5/15/12 response letter for the ESIWP. He said that the area of tanks 4 and 7
has a building over it. The building was constructed in 1998 after the tanks were removed. The
building is an office for their security group and there are many utilities under the floor.
Therefore, it would be very difficult to do any borings there. I told him that LiRo and the MTA
should go ahead and do the work for tanks 1 to 3 anyway. He said that this will be done, but he was
concerned about the request to do borings around tanks 4 and 7. I told him that horizontal borings
may be the only way to sample around the tank graves for these former tanks. I added that we need
some information in order to tell us whether elevated levels of contaminants are still at these
locations. I told him to go ahead with the work around the other tanks and to talk to the MTA and
see what can be done. He said that he will do this. With that, the conversation ended. 6/27/12 -
Raphael Ketani. Mr. Wesolowski sent me a response letter to the DEC ESIWP review letter dated
5/15/12. Attached to the LiRo Engineering response letter was a revised ESIWP dated 6/22/12. I
reviewed both documents. LiRo proposes to do many more borings around tanks #1, #2 and #3.
Additional borings around tanks #4 and #7 will be performed only if contamination appears to be
emanating from them. However, as these two tanks are under the building, the tone of the letter
suggested that the idea of boring around these tanks will be open for discussion. Mr. Wesolowski
also wrote that all environmental samples will be tested for the expanded lists of VOCs and SVOCs.
Also, drilling will proceed deeper than the 20 feet down that was

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

originally planned if
contamination is found at that level. Work will start within 60 days of the approval of the revised
ESIWP. I drafted a response letter approving the revised ESIWP and stating that indoor air PID
surveying should be done in the areas of the building which are above tanks #4 and #7. The letter
was submitted to Mr. Hussein for his approval. Mr. Hussein approved the letter and it was sent out.
8/3/12 - Raphael Ketani. Mr. Wesolowski sent me a letter dated 7/18/12. This letter was LiRo's
response to the DEC 6/7/12 letter approving the June 22 ESIWP. In the letter, Mr. Wesolowski
described the methodology for doing the indoor air sampling with the PID meter. Specifically, if
elevated readings are detected that are not attributed to materials stored in the building, then
air sampling will take place for 1 hour at each location of concern. If there are no elevated
detections, then air sampling will take place at a minimum of 8 sampling stations for a period of
30 minutes each using the PID meter. These 8 or more stations will be over the former locations of
USTs #4 and #7. I found the letter plan to be acceptable and submitted a draft letter to Mr.
Hussein for his review. The letter approved the methodology and also requested that the sampling
take place during a period when air exchange (due to people opening doors to rooms or ventilation)
is not taking place. I stated that this is in order to have stable conditions for the air sampling.
I also added that if the indoor air detections are above 500 ppb or 0.5 ppm, then the NYC DEP
Hotline should be contacted and a work plan must be submitted for a more extensive air
investigation. 8/7/12 - Raphael Ketani. Mr. Hussein approved the letter and it was sent out today.
11/17/12 - Raphael Ketani. I received the 11/13/12 Site Investigation Summary Report from Li Ro.
Soil borings, groundwater sampling and indoor air sampling were conducted on September 12, 13 and
17. Fourteen borings were performed down to 20 feet bgs. Temporary 1 inch monitoring wells were
installed. After the sampling was completed, the borings were filled in and the wells were
abandoned. Soil samples were recovered from LSB-01, 03, 04, 06 to 09, 13, and 15 to 17. Borings
could not be performed at LSB-02, 05, 10 to 12 and 14 due to refusal - it was believed that the
foundations were encountered at these locations. If no visual evidence or PID detections were
encountered in a boring, then soil samples were collected at the water table interface and at 20
feet bgs. The water table was encountered at 3 to 9 feet bgs. Flow was expected to be to the
southwest to the East River. The indoor air results were obtained by sampling at each station for

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

30 minutes, except for the entrance area which was sampled for 15 minutes. There were no
detections. Soil samples were collected from 5.5 feet to 20 feet below grade. The VOC results were
either non-detect or well below the CP-51 standards. The SVOC results were either non-detect, well
below the standards or just above the standards. For total results, the most contaminated soil
horizon at LSB-01 was at 7 feet bgs and LSB-03 was worst at 20 feet bgs. The groundwater samples
from LSB-01, LSB-03 and LSB-17 had 280 ppb, 260 ppb and 210 ppb of naphthalene, respectively. The
rest of the VOC results and the SVOC results were either non-detect or slightly above the GW
standards to two digits. From the data in the report, it appears that there is a source of
groundwater contamination. I drafted a letter to Mr. Bassil and to Mr. Wesolowski approving the
SISR and requesting that groundwater contamination delineation take place. The draft letter was
submitted to Mr. Hussein for his approval. 12/4/12 - Raphael Ketani. The letter was approved by Mr.
Hussein and was sent out with a deadline of January 4, 2013 for submission of a work plan for
delineating the groundwater contamination. 1/9/2013 - Raphael Ketani. I reviewed the LiRo 1/4/13
Supplemental Environmental Site Investigation Work Plan. LiRo plans to install 3 wells. One well
will be upgradient of LSB-17, one well will be downgradient of LSB-17 and one well will be
downgradient of locations LSB-1 and LSB-3. A maximum of 2 soil samples and 1 groundwater sample
will be taken from each proposed well location (MW-1 to MW-3). If no contamination is found at a
location, then one soil sample will be taken from just above the water table. The water table is
believed to be at about 8 feet bgs. I found the work plan to be acceptable and drafted a letter for
the review of Mr. Hussein approving the work plan and requesting that each well be surveyed and a
groundwater flow map be constructed. 1/11/13 - Raphael Ketani. Mr. Hussein approved the letter and
it was sent out today. 12/23/13 - Raphael Ketani. As there has been no correspondence from Martin
Wesolowski of LiRo Engineering (718) 321-3136, ext 242 regarding conducting the work that was
described in the 1/4/13 SESIWP, I sent an e-mail to Colleen Channer (legal division Triborough
Bridge and Tunnel Authority (TBTA) (212) 878-1035), Peter Bass (Director of Environmental Policy
and Compliance) and George Bassil (MTA environmental engineer (646) 252-7020) requesting that the
work start by February 3, 2014, or else the spill cases will be referred to the Office of General
Counsel for legal action. Later, Mr. Wesolowski responded by e-mail and stated that the TBTA was
obtaining the funding to do the approved work. The work is scheduled

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

to take place during early
January 2014. 1/7/14 - Raphael Ketani. Mr. Wesolowski sent me an e-mail stating that the agreed
upon work will take place on 1/21/14. 1/21/14 - Raphael Ketani. Mr. Wesolowski sent me an e-mail
stating that they had completed locating the utilities and doing the markouts for the 3 planned
wells. Due to the snowy weather, the actual work will not start until 1/23/14. 1/23/14 - Raphael
Ketani. Mr. Wesolowski sent me an e-mail stating that the wells were installed today and that
groundwater sampling will take place in two weeks. A report will be sent to the DEC in February
2014. 3/7/14 - Raphael Ketani. I reviewed the 3/6/14 LiRo Engineers, Inc. Supplemental
Environmental Site Investigation Report. The supplemental investigation took place in order to
further delineate the extent of the groundwater contamination at 3 specific locations. Borings SB-1
to SB-3 were installed on 1/23/14. None of the samples had odors or PID hits. These borings were
turned into wells MW-1 to MW-3 and developed on 1/29/14. The wells were sampled on 2/12/14. All of
the soil and groundwater samples were analyzed via methods 8260B and 8270C. The soil samples were
almost entirely non-detect for VOCs. The SVOC hits were also almost entirely non-detect with hits
that were well below the CP-51 unrestricted soil standards. The groundwater results for all of the
samples were almost entirely non-detect for the VOCs and the SVOCs. I sent an e-mail to Mr. Bassil
and Mr. Wesolowski stating that the Supplemental Environmental SIR had been approved, but the
Department was a little concerned about some past naphthalene results which had been from samples
taken from wells LSB-1, LSB-3 and LSB-17. Later, Mr. Wesolowski responded by e-mail that after the
September 2012 sampling event, these temporary wells had been removed. So no additional groundwater
samples could be taken. 3/18/14 - Raphael Ketani. The spill case was presented to Mr. Hussein for
closure. Mr. Hussein reviewed the data and determined that the spill case could be closed. Based
upon the documentation and the data in the case file, it has been determined that the oil spill has
been remediated and that any residual contamination is not a threat to the public or the
environment. Additionally, from the PID screening data, it has been determined that there are no
threats from the vapors of volatile chemicals in the MTA owned and maintained building. Therefore,
the spill case has been closed effective today.

Remarks: Petroleum Contaminated Soils reported as Gasoline was found during Tank Excataion work at the Site.

All Materials:
Site ID: 214399
Operable Unit ID: 839193

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Operable Unit:	01
Material ID:	536184
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9201985 / 2011-11-16
Facility ID:	9201985
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249978
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	1991-06-11
Investigator:	RVKETANI
Referred To:	NEED FURTHER DOCUMENTATION
Reported to Dept:	1992-01-13
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1992-05-20
Spill Record Last Update:	2011-11-17
Spiller Name:	GEORGE BASIL
Spiller Company:	MTA BRIDGES & TUNNEL
Spiller Address:	RANDALLS ISLAND
Spiller Company:	001
Contact Name:	GEORGE BASIL
DEC Memo:	09/04/07: Transferred from Sigona to Tibbe. Spill reopened due to lack of documentation of proper remediation of contamination identified around tanks 5&6, as well as 3, 4 and 7. 11/12/10 - spill re-assigned from Tibbe to Joe O'Connell 11/10/11 - Raphael Ketani. Kevin O'Connor of Action Remediation (516) 781-3000/cell (516) 236-7468 called regarding this spill case and cases #9601373, #9801266 and #0100477. He mentioned that an attempt was made to combine the 4 cases into one by the DEC, but this added to the confusion. The areas of concern are to the

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

west and to the east of the
north end approach to the Whitestone Bridge. He said that many years back, the tanks were taken
out, but the contaminated soil wasn't. I told him that there were almost no documents in the e-docs
and no case notes. He said that he would like to give the DEC all of the documents pertaining to
this site. I asked him to put them on disk. He said that he will. Mr. O'Connor said that he would
like to meet in person to discuss the site. I told him that would be fine. The PBS is #2-481645.
There are at least 6 tanks, according to some notes I saw. 11/16/11 - Raphael Ketani. A meeting
took place with Mr. O'Connor of Action Remediation and Tom O'Brien of Active Environmental
Techologies Inc. (609) 702-1500. Mr. O'Connor did most of the talking for the two consultants. He
explained that Action and Active were originally
sub-sub-sub-contractors for a very large
construction project to widen the northern approach to to the Whitestone Bridge. They were involved
in removing tanks and excavating contaminated soil. The work was done in two weeks. He said that
PBS case #2-481645 lists only four tanks that are still active. These are tank #11 (20,000 gal. UST
with biodiesel), tank #12 (1,000 gal. UST with gasoline), tank #13 (2,500 gal. UST with biodiesel)
and tank #15 (900 gal. UST with biodiesel). Mr. O'Connor added that their companies removed tanks
#10 (north part west side) and #5 and #6 (south part west side). However, tanks #8 and #9 on the
east side had already been removed. So all they did there was soil removal. Mr. O'Brien stated that
when they started digging, they discovered that the upper layer was made of cobbles and the rest
was native marsh clay. Lots of water came out of the layer of cobbles and this proved costly to
handle. The Triborough Bridge and Tunnel Authority refused to pay them for the cost of handling all
of the water from the cobble zone. So the remediation reports were never sent to the TBTA. Steel
sheet pilings were used to keep the holes open at all of the tank excavation locations. Soil end
point samples were taken by boring holes through the sheet piling. Mr. O'Brien showed me some
pictures of the work at the various locatoins. Mr. O'Connor had sent me e-mail pdf files containing
the soil analytical results, groundwater analytical results and some diagrams showing where the
samples had been taken. He also gave me copies of the manifests for the soil that was removed from
all of the locations. However, he said that the manifests were not in any particular order and were
for all of the excavation locations. Mr. O'Connor showed me PBS printouts for tanks #5 and #6. The
closure dates were 12/16/1993. He added that tank #10 was pulled by his company and it was a steel

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

tank with a fiberglass wrapping. It was in very good condition. After the meeting, I reviewed the
Long Island Analytical Labs 4/7/09 and 4/14/09 soil and groundwater analytical results reports.
They were almost entirely non-detect. The few hits that were present were almost entirely below
TAGM limits. I also reviewed the Action Remediation 5/6/09 Closeout Package for tank #10 (2,000
gal. UST in the northern part of the area on the west side) and the Action Remediation 6/1/09 soil
profile and sampling letter for all of the sampling locations. I also reviewed the manifests, other
documents and pictures concerning tanks #5, #6 and #10. Based upon my data in the documents in the
case file, I determined that the great majority of the contamination had been removed and that the
residual contamination was not a threat to the public or the environment. Also, as the groundwater
that had entered the site is part of the groundwater table that is under the landfill which is
Ferry Point Park, I determined that any impacts are not due conditions at the former tank removal
areas. So I closed the spill case. 11/17/11 - Raphael Ketani. I sent Mr. O'Connor and Mr. O'Brien a
spill closure letter for this spill case and case number 9601373.

Remarks: TWO 550'S (# 5 & 6) TAKEN OUT OF SERVICE & EMPTIED.

All Materials:

Site ID:	249978
Operable Unit ID:	969335
Operable Unit:	01
Material ID:	413265
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9601373 / 2011-11-16
Facility ID:	9601373
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249983
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	1996-04-26
Investigator:	RVKETANI
Referred To:	NEED FUIRTHER DOCUMENTATION.

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Reported to Dept:	1996-04-26
CID:	257
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1996-04-26
Spill Record Last Update:	2011-11-17
Spiller Name:	GEORGE BASIL
Spiller Company:	MTA BRIDGES & TUNNEL
Spiller Address:	RANDALLS ISLAND
Spiller Company:	001
Contact Name:	GEORGE BASIL
DEC Memo:	09-04-07: Transferred from Sigona to Tibbe. Spill reopened becuase of lack of documentation concerning proper remediation. 11/12/10 - spill re-assigned from Tibbe to Joe O'Connell 11/10/11 - Raphael Ketani. Kevin O'Connor of Action Remediation (516) 781-3000/cell (516) 236-7468 called regarding this spill case and cases #9201985, #9801266 and #0100477. He mentioned that an attempt was made to combine the 4 cases into one by the DEC, but this added to the confusion. The areas of concern are to the west and to the east of the north end approach to the Whitestone Bridge. He said that many years back, the tanks were taken out, but the contaminated soil wasn't. I told him that there were almost no documents in the e-docs and no case notes. He said that he would like to give the DEC all of the documents pertaining to this site. I asked him to put them on disk. He said that he will. Mr. O'Connor said that he would like to meet in person to discuss the site. I told him that would be fine. The PBS is #2-481645. There are at least 6 tanks, according to some notes I saw. 11/16/11 - Raphael Ketani. A meeting took place with Mr. O'Connor of Action Remediation and Tom O'Brien of Active Environmental Techologies Inc. (609) 702-1500. Mr. O'Connor did most of the talking for the two consultants. He explained that Action and Active were originally sub-sub-sub-contractors for a very large construction project to widen the northern approach to to the Whitestone Bridge. They were involved in removing tanks and excavating contaminated soil. The work was done in two weeks. He said that PBS case #2-481645 lists only four tanks that are still active. These are tank #11 (20,000 gal. UST with biodiesel), tank #12 (1,000 gal. UST with gasoline), tank #13 (2,500 gal. UST with biodiesel) and tank #15 (900 gal. UST with biodiesel). Mr. O'Connor added that their companies removed tanks #10 (north part west

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

side) and #5 and #6 (south
part west side). However, tanks #8 and #9 on the east side had already
been removed. So all they
did there was soil removal. Mr. O'Brien stated that when they started
digging, they discovered that
the upper layer was made of cobbles and the rest was native marsh
clay. Lots of water came out of
the layer of cobbles and this proved costly to handle. The Triborough
Bridge and Tunnel Authority
refused to pay them for the cost of handling all of the water from the
cobble zone. So the
remediation reports were never sent to the TBTA. Steel sheet pilings
were used to keep the holes
open at all of the tank excavation locations. Soil end point samples
were taken by boring holes
through the sheet piling. Mr. O'Brien showed me some pictures of the
work at the various locatoins.
Mr. O'Connor had sent me e-mail pdf files containing the soil
analytical results, groundwater
analytical results and some diagrams showing where the samples had
been taken. He also gave me
copies of the manifests for the soil that was removed from all of the
locations. However, he said
that the manifests were not in any particular order and were for all
of the excavation locations.
Mr. O'Connor showed me PBS printouts for tanks #8 and #9. The closure
dates were 5/1/96. After the
meeting, I reviewed the Long Island Analytical Labs 4/16/09 and
4/17/09 soil analytical results
reports. They were almost entirely non-detect. The few hits that were
present were almost entirely
below TAGM limits. I also reviewed the Action Remediation 6/1/09 soil
profile and sampling letter
for all of the sampling locations. I also reviewed the manifests,
other documents and pictures
concerning tanks #8 and #9. Based upon my data in the documents in the
case file, I determined that
the great majority of the contamination had been removed and that the
residual contamination was
not a threat to the public or the environment. Also, as the
groundwater that had entered the site
is part of the groundwater table that is under the landfill which is
Ferry Point Park, I determined
that any impacts are not due conditions at the former tank removal
areas. So I closed the spill
case. 11/17/11 - Raphael Ketani. I sent Mr. O'Connor and Mr. O'Brien a
spill closure letter for
this spill case and case number 9201985.

Remarks: Contaminated groundwater was discovered in the Tank
Excavationcontaminated in a hole.

All Materials:

Site ID:	249983
Operable Unit ID:	1029026
Operable Unit:	01
Material ID:	351180
Material Code:	0008
Material Name:	diesel

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9801266 / 2014-03-18
Facility ID:	9801266
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249985
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	1998-04-24
Investigator:	RVKETANI
Referred To:	031814 SPILL CASE APPRVD FOR CLOSURE
Reported to Dept:	1998-04-29
CID:	257
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1998-04-29
Spill Record Last Update:	2014-03-18
Spiller Name:	GEORGE BASIL
Spiller Company:	MTA BRIDGES & TUNNEL
Spiller Address:	RANDALLS ISLAND
Spiller Company:	001
Contact Name:	RAYMOND LO
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was ROMMEL This spill site investigation has been consolidated under Spill No. 9801266. A site investigation work plan was submitted to DEC for review and approval on November 7, 2003. Investigation was approved on 6/21/2004. The remaining spill case is under 9801266. DEC's comments regarding a proposed Work Plan for Site Investigation by BEM Systems, Inc., dated November 5, 2003. Based on the results of our site visit and PBS inspection on June 25, 2003, and evaluation of the proposal by BEM, the DEC accepts MTA Bridges and Tunnel's Work Plan to perform further investigatory actions to address any of the DEC's concerns related to the prior spill investigations for

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

this spill number referenced at
this site. MTA Bridges & Tunnels must now complete the implementation
of the BEM's Work Plan
according to the proposed schedule 7/19/04 - AUSTIN - TRANSFERRED FROM
SIGONA TO ROMMEL DUE TO THE
OTHER TBTA SITES BEING UNDER HER JURISDICTION - END 03/29/05: Transfer
from Rommel to Tibbe.
11/12/10 - spill re-assigned from Tibbe to Joe O'Connell 11/16/11 -
Raphael Ketani. I tried to
contact Colleen Channer of the Triborough Bridge and Tunnel Authority
(TBTA) (212) 878-1035, but I
could only leave a message with her secretary. Her mailing address is:
MTA Legal Department, 347
Madison Avenue, 9th Floor, NY, 10017. The TBTA is part of the MTA.
11/17/11 - Raphael Ketani. I
spoke to Ms. Channer. I told her that the DEC still had two open spill
cases, #0100477 and
#9801266, and that we were seeking documentation for these cases. I
told her that the spills may
involve tanks 1 to 4 on the west side of the northern approach to the
bridge. She said that she
will look for the documentation and get back to me. 1/13/12 - Raphael
Ketani. Ms. Channer (212)
878-1035 called me. She said that she had found some documentation for
cases #0100477 and #9801266.
We went over the documents that she had and that the DEC had. Some
were the same. I told her that
#0100477 was open because the consultant used the TCLP method to
process the samples, rather than
methods 8260 and 8270, and because not enough samples were taken and
no groundwater samples were
taken in the vicinity of tanks 1 and 2. I added that #9801266 was open
because the source of the
free floating product that had entered a utility vault was never
found. Tanks 3, 4, and 7 had been
removed in the nineteen nineties. However a full soil and groundwater
investigation, and
transmission lines investigation for product had never been done. Ms.
Channer asked that I send the
MTA a letter indicating the work that needs to be done and which
documents the DEC still needs. Her
address is: Senior Environmental Counsel, MTA,347 Madison Avenue, 9th
Floor, NY, 10017. 1/17/12 -
Raphael Ketani. I sent a letter to Ms. Channer requesting that the MTA
submit a work plan to
conduct a soil and groundwater investigation in the vicinity of the
former locations of USTs #3, #4
and #7. I also put in the letter a request for a work plan to conduct
an investigation of the
former vicinity of USTs #1 and #2 (spill #0100477). 1/19/12 - Raphael
Ketani. I was notified that
Peter Bass, Director of the Environmental Policy and Compliance group
at the MTA, should also
receive a copy of the letter to Ms. Channer. So I sent the letter to
him. His address is also 347
Madison Avenue. 1/30/12 - Raphael Ketani. Ms. Channer and the MTA
environmental engineer, George

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Bassil, called me today to request an extension for submitting the work plan as their consultant
was heavily involved with another MTA project and could not devote much attention to the Whitestone
Bridge projects. I granted the MTA a two month extension of the deadline for submitting the work
plan. This set the deadline at April 16. Mr. Bassil's contact information is: MTA, 2 Broadway, 23rd
Floor, NY, 10004, (646) 252-7020. 4/25/12 - Raphael Ketani. Today I received 4/16/12 Environmental
Site Investigation Work Plan from LiRo Engineers. I began my review. 5/15/12 - Raphael Ketani. I
finished my review of the ESIWP. LiRo proposed to perform 6 soil borings. Three in the vicinity of
the grave for the former tank #3 and its general spill area, and three in the vicinity of the grave
for the former tank #2 and its general spill area. Soil and groundwater samples will be collected.
The soil sample with the highest PID reading will be submitted for analysis and one groundwater
sample from each boring. Samples will be analyzed for STARS list VOCs by method 8260 and for STARS
list SVOCs by method 8270. The results will be compared to CP-51 standards. I disapproved the
ESIWP. First, the list of analytes to be tested should be the expanded lists for VOCs and SVOCs.
Secondly, there were not enough borings planned to properly cover each spill area. Lastly, the
areas affected by the spills need to be delineated. I drafted a disapproval letter for the review
of Hassan Hussein, EE III and head of the Hazardous Materials Unit. I set a deadline of June 22 for
the submission of a revised SIWP. Mr. Hussein approved the letter and it was sent out today.
5/18/12 - Raphael Ketani. Mr. Wesolowski of LiRo Engineering (718) 321-3136, ext 242 called me
today regarding my 5/15/12 response letter for the ESIWP. He said that the area of tanks 4 and 7
has a building over it. The building was constructed in 1998 after the tanks were removed. The
building is an office for their security group and there are many utilities under the floor.
Therefore, it would be very difficult to do any borings there. I told him that LiRo and the MTA
should go ahead and do the work for tanks 1 to 3 anyway. He said that this will be done, but he was
concerned about the request to do borings around tanks 4 and 7. I told him that horizontal borings
may be the only way to sample around the tank graves for these former tanks. I added that we need
some information in order to tell us whether elevated levels of contaminants are still at these
locations. I told him to go ahead with the work around the other tanks and to talk to the MTA and
see what can be done. He said that he will do this. With that, the conversation ended. 6/27/12 -
Raphael Ketani. Mr. Wesolowski sent me a response letter to the DEC

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

ESIWP review letter dated
5/15/12. Attached to the LiRo Engineering response letter was a
revised ESIWP dated 6/22/12. I
reviewed both documents. LiRo proposes to do many more borings around
tanks #1, #2 and #3.
Additional borings around tanks #4 and #7 will be performed only if
contamination appears to be
emanating from them. However, as these two tanks are under the
building, the tone of the letter
suggested that the idea of boring around these tanks will be open for
discussion. Mr. Wesolowski
also wrote that all environmental samples will be tested for the
expanded lists of VOCs and SVOCs.
Also, drilling will proceed deeper than the 20 feet down that was
originally planned if
contamination is found at that level. Work will start within 60 days
of the approval of the revised
ESIWP. I drafted a response letter approving the revised ESIWP and
stating that indoor air PID
surveying should be done in the areas of the building which are above
tanks #4 and #7. The letter
was submitted to Mr. Hussein for his approval. Mr. Hussein approved
the letter and it was sent out.
8/3/12 - Raphael Ketani. Mr. Wesolowski sent me a letter dated
7/18/12. This letter was LiRo's
response to the DEC 6/7/12 letter approving the June 22 ESIWP. In the
letter, Mr. Wesolowski
described the methodology for doing the indoor air sampling with the
PID meter. Specifically, if
elevated readings are detected that are not attributed to materials
stored in the building, then
air sampling will take place for 1 hour at each location of concern.
If there are no elevated
detections, then air sampling will take place at a minimum of 8
sampling stations for a period of
30 minutes each using the PID meter. These 8 or more stations will be
over the former locations of
USTs #4 and #7. I found the letter plan to be acceptable and submitted
a draft letter to Mr.
Hussein for his review. The letter approved the methodology and also
requested that the sampling
take place during a period when air exchange (due to people opening
doors to rooms or ventilation)
is not taking place. I stated that this is in order to have stable
conditions for the air sampling.
I also added that if the indoor air detections are above 500 ppb or
0.5 ppm, then the NYC DEP
Hotline should be contacted and a work plan must be submitted for a
more extensive air
investigation. 8/7/12 - Raphael Ketani. Mr. Hussein approved the
letter and it was sent out today.
11/17/12 - Raphael Ketani. I received the 11/13/12 Site Investigation
Summary Report from Li Ro.
Soil borings, groundwater sampling and indoor air sampling were
conducted on September 12, 13 and
17. Fourteen borings were performed down to 20 feet bgs. Temporary 1
inch monitoring wells were

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

installed. After the sampling was completed, the borings were filled in and the wells were
abandoned. Soil samples were recovered from LSB-01, 03, 04, 06 to 09, 13, and 15 to 17. Borings
could not be performed at LSB-02, 05, 10 to 12 and 14 due to refusal - it was believed that the
foundations were encountered at these locations. When no visual evidence or PID detections were
encountered in a boring, then soil samples were collected at the water table interface and at 20
feet bgs. The water table was encountered at 3 to 9 feet bgs. Flow was expected to be to the
southwest to the East River. The indoor air results were obtained by sampling at each station for
30 minutes, except for the entrance area which was sampled for 15 minutes. There were no
detections. Soil samples were collected from 5.5 feet to 20 feet below grade. The VOC results were
either non-detect or well below the CP-51 standards. The SVOC results were either non-detect, well
below the standards or just above the standards. For total results, the most contaminated soil
horizon at LSB-01 was at 7 feet bgs and LSB-03 was worst at 20 feet bgs. The groundwater samples
from LSB-01, LSB-03 and LSB-17 had 280 ppb, 260 ppb and 210 ppb of naphthalene, respectively. The
rest of the VOC results and the SVOC results were either non-detect or slightly above the GW
standards to two digits. From the data in the report, it appears that there is a source of
groundwater contamination. I drafted a letter to Mr. Bassil and to Mr. Wesolowski approving the
SISR and requesting that groundwater contamination delineation take place. The draft letter was
submitted to Mr. Hussein for his approval. 12/4/12 - Raphael Ketani. The letter was approved by Mr.
Hussein and was sent out with a deadline of January 4, 2013 for submission of a work plan for
delineating the groundwater contamination. 1/9/2013 - Raphael Ketani. I reviewed the LiRo 1/4/13
Supplemental Environmental Site Investigation Work Plan. LiRo plans to install 3 wells. One well
will be upgradient of LSB-17, one well will be downgradient of LSB-17 and one well will be
downgradient of locations LSB-1 and LSB-3. A maximum of 2 soil samples and 1 groundwater sample
will be taken from each proposed well location (MW-1 to MW-3). If no contamination is found at a
location, then one soil sample will be taken from just above the water table. The water table is
believed to be at about 8 feet bgs. I found the work plan to be acceptable and drafted a letter for
the review of Mr. Hussein approving the work plan and requesting that each well be surveyed and a
groundwater flow map be constructed. 1/11/13 - Raphael Ketani. Mr. Hussein found the letter to be
acceptable and it was sent out today. 12/23/13 - Raphael Ketani. As

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

there has been no
correspondence from Martin Wesolowski of LiRo Engineering (718)
321-3136, ext 242 regarding
conducting the work that was described in the 1/4/13 SESIWP, I sent an
e-mail to Colleen Channer
(legal division Triborough Bridge and Tunnel Authority (TBTA) (212)
878-1035), Peter Bass (Director
of Environmental Policy and Compliance) and George Bassil (MTA
environmental engineer (646)
252-7020) requesting that the work start by February 3, 2014, or else
the spill cases will be
referred to the Office of General Counsel for legal action. Later, Mr.
Wesolowski responded by
e-mail and stated that the TBTA was obtaining the funding to do the
approved work. The work is
scheduled to take place during early January 2014. 1/7/14 - Raphael
Ketani. Mr. Wesolowski sent me
an e-mail stating that the agreed upon work will take place on
1/21/14. 1/21/14 - Raphael Ketani.
Mr. Wesolowski sent me an e-mail stating that they had completed
locating the utilities and doing
the markouts for the 3 planned wells. Due to the snowy weather, the
actual work will not start
until 1/23/14. 1/23/14 - Raphael Ketani. Mr. Wesolowski sent me an
e-mail stating that the wells
were installed today and that groundwater sampling will take place in
two weeks. A report will be
sent to the DEC in February 2014. 3/7/14 - Raphael Ketani. I reviewed
the 3/6/14 LiRo Engineers,
Inc. Supplemental Environmental Site Investigation Report. The
supplemental investigation took
place in order to further delineate the extent of the groundwater
contamination at 3 specific
locations. Borings SB-1 to SB-3 were installed on 1/23/14. None of the
samples had odors or PID
hits. These borings were turned into wells MW-1 to MW-3 and developed
on 1/29/14. The wells were
sampled on 2/12/14. All of the soil and groundwater samples were
analyzed via methods 8260B and
8270C. The soil samples were almost entirely non-detect for VOCs. The
SVOC hits were also almost
entirely non-detect with hits that were well below the CP-51
unrestricted soil standards. The
groundwater results for all of the samples were almost entirely
non-detect for the VOCs and the
SVOCs. I sent an e-mail to Mr. Bassil and Mr. Wesolowski stating that
the Supplemental
Environmental SIR had been approved, but the Department was a little
concerned about some past
naphthalene results which had been from samples taken from wells
LSB-1, LSB-3 and LSB-17. Later,
Mr. Wesolowski responded by e-mail that after the September 2012
sampling event, these temporary
wells had been removed. So no additional groundwater samples could be
taken. 3/18/14 - Raphael
Ketani. The spill case was presented to Mr. Hussein for closure. Mr.
Hussein reviewed the data and

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

	determined that the spill case could be closed. Based upon the documentation and the data in the case file, it has been determined that the oil spill has been remediated and that any residual contamination is not a threat to the public or the environment. Additionally, from the PID screening data, it has been determined that there are no threats from the vapors of volatile chemicals in the MTA owned and maintained building. Therefore, the spill case has been closed effective today.
Remarks:	DEC Sigona was performing a site inspection and contamination was found.

All Materials:

Site ID:	249985
Operable Unit ID:	1061927
Operable Unit:	01
Material ID:	323195
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9303540 / 2003-11-06
Facility ID:	9303540
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249979
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	1993-06-17
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1993-06-17
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1993-06-24
Spill Record Last Update:	2004-06-21

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Spiller Name:	GEORGE BASIL
Spiller Company:	TRIBOROUGH AUTHORITY
Spiller Address:	RANDALL'S ISLAND
Spiller Company:	001
Contact Name:	GEORGE BASIL
DEC Memo:	Not reported
Remarks:	WHILE THE TBTA WAS PERFORMING AN EXCAVATION FOR A NEW SEWER PIPE THEY FOUND PETROLEUM CONTAMINATED SOILS.

All Materials:

Site ID:	249979
Operable Unit ID:	981958
Operable Unit:	01
Material ID:	397102
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9501417 / 2003-11-24
Facility ID:	9501417
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249981
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	1995-05-03
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1995-05-03
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1995-05-18
Spill Record Last Update:	2004-06-21
Spiller Name:	GEORGE BASIL
Spiller Company:	MTA BRIDGES & TUNNELS
Spiller Address:	RANDALLS ISLAND
Spiller Company:	001
Contact Name:	Not reported

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

DEC Memo:	Not reported
Remarks:	LEAKING PIPE IN ABOVE GROUND TANK - SMALL AMOUNT WENT INTO SEWER - CONTAINED, CLEANUP CREW ON WAY.

All Materials:

Site ID:	249981
Operable Unit ID:	1012154
Operable Unit:	01
Material ID:	370025
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	150.00
Units:	G
Recovered:	.00
Resource Affected:	Sewer
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9503672 / 1995-06-26
Facility ID:	9503672
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249982
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	B3
SWIS:	0301
Spill Date:	1995-06-26
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1995-06-26
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	1995-06-26
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1995-07-18
Spill Record Last Update:	2004-06-21
Spiller Name:	GEORGE BASIL
Spiller Company:	MTA BRIDGES & TUNNELS
Spiller Address:	RANDALLS ISLAND
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	Not reported
Remarks:	DRIVER WAS FILLING A TANK & THE TANK GAUGE WAS BROKE - TANK OVERFLOWED SPILL TEAM WAS CALLED & RESPONDING

All Materials:

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Site ID:	249982
Operable Unit ID:	1014900
Operable Unit:	01
Material ID:	365176
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9906022 / 1999-08-30
Facility ID:	9906022
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249986
DEC Region:	2
Spill Cause:	Traffic Accident
Spill Class:	C3
SWIS:	0301
Spill Date:	1999-08-19
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1999-08-19
CID:	389
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1999-08-19
Spill Record Last Update:	2004-06-21
Spiller Name:	Not reported
Spiller Company:	WEBSTER TRUCKING
Spiller Address:	1800 CORPORATE BLVD
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	Not reported
Remarks:	SPILL OCCURRED APPROX 2 HOURS AGO ON THE WHITESTONE BRIDGE IN QUEENS. CLEAN UP BY PENSKE AND TOWED TO ROCKAWAY QUEENS TERMINAL.

All Materials:

Site ID:	249986
Operable Unit ID:	1080469
Operable Unit:	01
Material ID:	302297
Material Code:	0001A

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

Name:	BRONX WHITESTONE BRIDGE
Address:	1 HUTCHINSON RIVER PKWAY
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	8807410 / 1992-12-04
Facility ID:	8807410
Facility Type:	ER
DER Facility ID:	177640
Site ID:	249977
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	A3
SWIS:	0301
Spill Date:	1988-12-07
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1988-12-07
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	1992-12-04
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1988-12-21
Spill Record Last Update:	2004-06-21
Spiller Name:	GEORGE BASIL
Spiller Company:	MTA BRIDGES & TUNNELS
Spiller Address:	RANDALLS ISLAND
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	Not reported
Remarks:	TEMPCO - HEATING UNIT - LEAKS INTO BOOTHS CAUSING IRRITATION, VOMITING20 PEOPLE AFFECTED, WORKERS WON'T ASK FOR UNION DELEGATE. NOTIFIED NYSDOH, DOL, NYCDOH.

All Materials:

Site ID:	249977
Operable Unit ID:	924079
Operable Unit:	01
Material ID:	455753
Material Code:	0028A
Material Name:	ethylene glycol
Case No.:	00107211
Material FA:	Hazardous Material
Quantity:	.00

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Units:	G
Recovered:	.00
Resource Affected:	Air
Oxygenate:	Not reported

NY MANIFEST:

EPA ID:	NYR000154260
Country:	USA
Name:	MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY
Address:	1 HUTCHINSON RIVER PKWY
Address 2:	Not reported
City,State,Zip:	BRONX, NY 10465-1857
Zip 4:	Not reported
Location Address 1:	1 HUTCHINSON RIVER PKWY
Location Address 2:	Not reported
Location City,State,Zip:	BRONX, NY 10465
Location Zip 4:	Not reported
Facility Status:	Not reported
Total Tanks:	Not reported
Code:	BP

Mailing:

Mailing Name:	MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY
Mailing Contact:	TBTA/MTA BRIDGES & TUNNELS
Mailing Address 1:	1 HUTCHINSON RIVER PKWY
Mailing Address 2:	Not reported
Mailing City,State,Zip:	BRONX, NY 10465
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2124688454

Manifest Data:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	03/03/2014
Trans1 Recv Date:	03/03/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/03/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	001053507GBF
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	IGNITABLE WASTE
Waste Code b:	BENZENE
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	55
Units:	Gallons (liquids only)
Number of Containers:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Handling Method:	Treat
Specific Gravity:	1

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	05/24/2011
Trans1 Recv Date:	05/24/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/24/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	003534721JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	IGNITABLE WASTE
Waste Code b:	BENZENE
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	55
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Treat
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYR000134957
Year:	2018
Trans2 State ID:	PAD982661381
Generator Ship Date:	07/31/2013
Trans1 Recv Date:	07/31/2013
Trans2 Recv Date:	08/09/2013
TSD Site Recv Date:	08/19/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	PAD085690592
TSDF ID 2:	Not reported
Manifest Tracking Number:	002835527FLE
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	LEAD
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	500
Units:	Pounds
Number of Containers:	2
Container Type:	Metal drums, barrels, kegs

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Handling Method:	Treat
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027103
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	03/30/2016
Trans1 Recv Date:	03/30/2016
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/30/2016
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	015626081JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code a:	LEAD
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	40
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Treat
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027103
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	03/30/2016
Trans1 Recv Date:	03/30/2016

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/30/2016
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	015626081JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	MERCURY
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	4500
Units:	Pounds
Number of Containers:	9
Container Type:	Wooden boxes, cartons, cases
Handling Method:	Treat
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	11/04/2013
Trans1 Recv Date:	11/04/2013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/04/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	010913928JJK

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H110
Waste Code a:	LEAD
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	300
Units:	Pounds
Number of Containers:	3
Container Type:	Metal drums, barrels, kegs
Handling Method:	Treat
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	11/04/2013
Trans1 Recv Date:	11/04/2013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/04/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	010913928JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

MGMT Method Type Code:	H110
Waste Code a:	LEAD
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	60
Units:	Pounds
Number of Containers:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Handling Method:	Treat
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	11/04/2013
Trans1 Recv Date:	11/04/2013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/04/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000154260
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD002200046
TSDF ID 2:	Not reported
Manifest Tracking Number:	010913928JJK
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	LEAD
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported

MTA BRIDGES & TUNNELS WHITESTONE BRIDGE FACILITY (Continued) **S102150368**

Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	600
Units:	Pounds
Number of Containers:	6
Container Type:	Metal drums, barrels, kegs
Handling Method:	Treat
Specific Gravity:	1

E23
ESE
< 1/8
0.113 mi.
597 ft.

FARRY POINT PARK
WHITSTONE BRIDGE
BRONX, NY

NY Spills **S104952961**
N/A

Site 2 of 3 in cluster E

Relative:
Higher

Actual:
32 ft.

SPILLS:

Name:	FARRY POINT PARK
Address:	WHITSTONE BRIDGE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0012477 / 2003-06-09
Facility ID:	0012477
Facility Type:	ER
DER Facility ID:	172388
Site ID:	207749
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C3
SWIS:	0301
Spill Date:	2001-02-21
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2001-02-21
CID:	270
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2001-02-21
Spill Record Last Update:	2003-06-09
Spiller Name:	CAKLLER
Spiller Company:	FAIRWAYS INC
Spiller Address:	115 STEVENS AV
Spiller Company:	001
Contact Name:	CALLER
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was SANGESLAND
Remarks:	line broke on vehicle. clean up in progress

All Materials:

Site ID:	207749
Operable Unit ID:	834003

FARRY POINT PARK (Continued) **S104952961**

Operable Unit:	01
Material ID:	542742
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	4.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

F24 **LIBERTY MECHANICAL/CABLEVISION** **NY TANKS** **U001831844**
NNW **550 BRUSH AVENUE** **NY NYC LAND USE** **N/A**
< 1/8 **BRONX, NY 10465**
0.114 mi.
601 ft. **Site 1 of 9 in cluster F**

Relative:
Lower

Actual:
8 ft.

TANKS:

Name:	LIBERTY MECHANICAL/CABLEVISION
Address:	550 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Facility Id:	2-080799
Region:	STATE
DEC Region:	2
Site Status:	Active
Program Type:	PBS
Expiration Date:	03/26/2028
UTM X:	597964.87894
UTM Y:	4519189.11855

NYC LAND USE:

Name:	Not reported
Address:	550 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Latitude:	40.8176678
Longitude:	-73.8380585
Type Of Ownership Code:	Not reported
Owner Name:	550 BRUSH LLC
Borough:	BX
Tax Block:	5610
Tax Lot:	16
Community District:	210
Census Tract 2020:	2009000
Census Block 2020:	20090002019
Census Tract 2010:	90
Census Block 2010:	2014
School District:	08
City Council District:	13
Fire Company:	E072
Police Precinct:	45
Health Center District:	26
Health Area:	3100
Sanitation District Boro:	2
Sanitation District Number:	10
Sanitation Subsection:	3D

LIBERTY MECHANICAL/CABLEVISION (Continued) **U001831844**

Zoning District 1:	M1-1: Manufacturing Districts
Zoning District 2:	Not reported
Zoning District 3:	Not reported
Zoning District 4:	Not reported
Commercial Overlay 1:	Not reported
Commercial Overlay 2:	Not reported
Special Purpose District 1:	Not reported
Special Purpose District 2:	Not reported
Special Purpose District 3:	Not reported
Limited Height District:	Not reported
Spill Boundary Indicator:	N
Building Class:	F1: FACTORY AND INDUSTRIAL BUILDINGS - Heavy Manufacturing - Fireproof
Land Use Category:	Industrial & Manufacturing
Number Of Easements:	0
Lot Area:	106300
Total Building Floor Area:	47800
Commercial Floor Area:	47800
Residential Floor Area:	0
Office Floor Area:	1800
Retail Floor Area:	0
Garage Floor Area:	0
Storage Floor Area:	0
Factory Floor Area:	46000
Other Floor Area:	0
Total Building Floor Area Source Code:	2
Number Of Buildings:	2
Number Of Floors:	1.0000000
Residential Units:	0
Total Units:	2
Lot Frontage:	530.0000000
Lot Depth:	275.3300000
Building Frontage:	200.3300000
Building Depth:	200.0000000
Extension Code:	N
Proximity Code:	0
Irregular Lot Code:	Y
Lot Type:	3
Basement Type/Grade:	0
Assessed Land Value:	675000.00000
Assessed Total Value:	3496950.00000
Exempt Total Value:	0.00000
Year Built:	1962
Year Altered 1:	2015
Year Altered 2:	0
Historic District Name:	Not reported
Landmark Status:	Not reported
Built Floor Area Ratio:	0.45000000000
Maximum Allowable Residential Far:	0.00000000000
Maximum Allowable Commercial Far:	1.00000000000
Maximum Allowable Community Facility Far:	2.40000000000
Boro Code:	2
Borough, Tax Block and Lot:	2056100016.00000000
Condominium Number:	Not reported
Census Tract 2:	0090
X Coordinate:	1029074
Y Coordinate:	237217
Zoning Map #:	7a

LIBERTY MECHANICAL/CABLEVISION (Continued) **U001831844**

Zoning Map Code:	Not reported
Sanborn Map #:	221 040
Tax Map #:	21809
E-designation Number:	Not reported
Apportionment BBL:	Not reported
Apportionment Date:	Not reported
Pluto ??? Dtm Base Map Indicator:	1
2007 Flood Insurance Rate Map Indicator:	1
2015 Preliminary Flood Insurance Rate Map Indicator:	1
Version Number:	24v1.1
Changed By DCP:	Not reported

25
North
< 1/8
0.121 mi.
639 ft.

FERRY POINT PARK GOLF COURSE **NY AST** **A100366170**
700 HUTCHINSON RIVER PARKWAY **N/A**
BRONX, NY 10465

Relative:
Lower

Actual:
14 ft.

AST:

Name:	FERRY POINT PARK GOLF COURSE
Address:	700 HUTCHINSON RIVER PARKWAY
City,State,Zip:	BRONX, NY 10465
Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-611992
Program Type:	PBS
UTM X:	598188.19739
UTM Y:	4519209.71831
Expiration Date:	02/15/2023
Site Type:	Other

Affiliation Records:

Site Id:	480083
Affiliation Type:	Facility Owner
Company Name:	CITY OF NEW YORK, PARKS AND RECREATION
Contact Type:	GENERAL MANAGER
Contact Name:	BRIAN A. CROWEK
Address1:	830 FIFTH AVENUE
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10021
Country Code:	001
Phone:	(212) 410-8916
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2023-01-17

Site Id:	480083
Affiliation Type:	Mail Contact
Company Name:	CITY OF NEW YORK, PARKS & RECREATION
Contact Type:	Not reported
Contact Name:	CYNTHIA LOPEZ
Address1:	CITYWIDE SERVICES COMPLEX
Address2:	20 BRONX SHORE ROAD - RANDALLS ISLAND
City:	NEW YORK

FERRY POINT PARK GOLF COURSE (Continued) **A100366170**

State:	NY
Zip Code:	10035
Country Code:	001
Phone:	(212) 410-8935
EMail:	CYNTHIA.LOPEZ@PARKS.NYC.GOV
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2023-01-17

Site Id:	480083
Affiliation Type:	Emergency Contact
Company Name:	CITY OF NEW YORK, PARKS AND RECREATION
Contact Type:	Not reported
Contact Name:	CYNTHIA LOPEZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(212) 410-8935
EMail:	Not reported
Fax Number:	Not reported
Modified By:	ACDANIEL
Date Last Modified:	2023-01-13

Site Id:	480083
Affiliation Type:	Facility Operator
Company Name:	FERRY POINT GOLF COURSE
Contact Type:	GENERAL MANAGER
Contact Name:	BRIAN CROWELL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NY
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 414-1560
EMail:	Not reported
Fax Number:	Not reported
Modified By:	ACDANIEL
Date Last Modified:	2023-01-13

Tank Info:

Tank Number:	001
Tank Id:	247593
Material Code:	2712
Common Name of Substance:	Gasoline/Ethanol

Equipment Records:

G01 - Tank Secondary Containment - Diking (Aboveground)
J06 - Dispenser - Tank Mounted Dispenser
F00 - Pipe External Protection - None
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin

FERRY POINT PARK GOLF COURSE (Continued) **A100366170**

L09 - Piping Leak Detection - Exempt Suction Piping
E00 - Piping Secondary Containment - None
C01 - Pipe Location - Aboveground
G12 - Tank Secondary Containment - Double-Walled (AG only)
I03 - Overfill - Automatic Shut-Off
D01 - Pipe Type - Steel/Carbon Steel/Iron
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel Tank in Concrete
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	02/15/2013
Capacity Gallons:	1000
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	JSMACRI
Last Modified:	01/17/2023
Material Name:	gasoline/ethanol

Tank Number:	002
Tank Id:	247594
Material Code:	0008
Common Name of Substance:	Diesel

Equipment Records:

F00 - Pipe External Protection - None
J06 - Dispenser - Tank Mounted Dispenser
E00 - Piping Secondary Containment - None
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
G12 - Tank Secondary Containment - Double-Walled (AG only)
C01 - Pipe Location - Aboveground
G01 - Tank Secondary Containment - Diking (Aboveground)
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I01 - Overfill - Float Vent Valve
I03 - Overfill - Automatic Shut-Off

Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel Tank in Concrete
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	02/15/2013
Capacity Gallons:	1000
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported

FERRY POINT PARK GOLF COURSE (Continued) **A100366170**

Register:	True
Modified By:	JSMACRI
Last Modified:	01/17/2023
Material Name:	diesel

Tank Number:	003
Tank Id:	248286

Equipment Records:

J06 - Dispenser - Tank Mounted Dispenser
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
K01 - Spill Prevention - Catch Basin
E00 - Piping Secondary Containment - None
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
I04 - Overfill - Product Level Gauge (A/G)
G10 - Tank Secondary Containment - Impervious Underlayment
A00 - Tank Internal Protection - None

Tank Location:	Aboveground - contact with impervious barrier... Tank bottom rests on impervious barrier, allowing visual indication of leaks.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	07/31/2012
Capacity Gallons:	500
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	02/15/2013
Register:	True
Modified By:	JSMACRI
Last Modified:	01/17/2023
Material Name:	diesel

Tank Number:	004
Tank Id:	248287

Equipment Records:

D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
J06 - Dispenser - Tank Mounted Dispenser
A00 - Tank Internal Protection - None
G10 - Tank Secondary Containment - Impervious Underlayment
E00 - Piping Secondary Containment - None
K01 - Spill Prevention - Catch Basin

Tank Location:	Aboveground - contact with impervious barrier... Tank bottom rests on impervious barrier, allowing visual indication of leaks.
Tank Type:	Steel/Carbon Steel/Iron

FERRY POINT PARK GOLF COURSE (Continued) **A100366170**

Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	04/11/2013
Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	#4 fuel oil (resale/redistribute)

Tank Number:	005
Tank Id:	248288

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
J06 - Dispenser - Tank Mounted Dispenser
E00 - Piping Secondary Containment - None
K01 - Spill Prevention - Catch Basin
A00 - Tank Internal Protection - None
G10 - Tank Secondary Containment - Impervious Underlayment

Tank Location:	Aboveground - contact with impervious barrier... Tank bottom rests on impervious barrier, allowing visual indication of leaks.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	04/11/2013
Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	#2 fuel oil (resale/redistribute)

Tank Number:	006
Tank Id:	248289

Equipment Records:

K01 - Spill Prevention - Catch Basin
E00 - Piping Secondary Containment - None
I04 - Overfill - Product Level Gauge (A/G)
J06 - Dispenser - Tank Mounted Dispenser
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

FERRY POINT PARK GOLF COURSE (Continued) **A100366170**

H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
G10 - Tank Secondary Containment - Impervious Underlayment
A00 - Tank Internal Protection - None

Tank Location:	Aboveground - contact with impervious barrier... Tank bottom rests on impervious barrier, allowing visual indication of leaks.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	04/11/2013
Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	gasoline

E26
East
1/8-1/4
0.129 mi.
679 ft.

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE
1 HUTCHINSON RIVER PKWY
BRONX, NY 10465

RCRA-LQG **1000141522**
E MANIFEST **NYD982796377**
PA MANIFEST
NJ MANIFEST

Site 3 of 3 in cluster E

Relative:
Higher

Actual:
36 ft.

RCRA Listings:

Date Form Received by Agency:	20180219
Handler Name:	Mta Bridge Bin 55211229 - Bronx Whitestone Bridge
Handler Address:	Hutchinson River Pkwy
Handler City,State,Zip:	BRONX, NY 10465-1857
EPA ID:	NYD982796377
Contact Name:	PASHKO R CAMAJ
Contact Address:	ROBERT MOSES BLDG RM 115D
Contact City,State,Zip:	NEW YORK, NY 10035
Contact Telephone:	212-360-3073
Contact Fax:	315-454-4467
Contact Email:	PCAMAJ@MTABT.ORG
Contact Title:	SR. DIRECTOR, S&H
EPA Region:	02
Land Type:	State
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ny
State District:	NYSDEC R2
Mailing Address:	ROBERT MOSES BLDG RM 115D
Mailing City,State,Zip:	NEW YORK, NY 10035
Owner Name:	Mta-Bridges And Tunnels
Owner Type:	State
Operator Name:	Mta Bridges And Tunnels
Operator Type:	State
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220406
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years

Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2011

Click Here for Biennial Reporting System Data:
Year: 2009

Click Here for Biennial Reporting System Data:
Year: 2005

Click Here for Biennial Reporting System Data:
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	Ignitable Waste
Waste Code:	D002
Waste Description:	Corrosive Waste
Waste Code:	D008
Waste Description:	Lead
Waste Code:	D018
Waste Description:	Benzene
Waste Code:	X001
Waste Description:	Not Defined

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: MTA BRIDGES & TUNNELS	
Legal Status:	State
Date Became Current:	19390429
Date Ended Current:	Not reported
Owner/Operator Address:	ROBERT MOSES BUILDING
Owner/Operator City,State,Zip:	NEW YORK, NY 10035-5199
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: MTA BRIDGES & TUNNELS	
Legal Status:	State
Date Became Current:	19500525
Date Ended Current:	Not reported
Owner/Operator Address:	2 BROADWAY-23RD FLOOR
Owner/Operator City,State,Zip:	NEW YORK, NY 10004
Owner/Operator Telephone:	646-252-7046
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: TRIBOROUGH BRIDGE & TUNNEL AUTH (TBTA)	
Legal Status:	State
Date Became Current:	19500525
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MTA BRIDGES & TUNNELS
Legal Status: State
Date Became Current: 19390429
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MTA-BRDIGES AND TUNNELS
Legal Status: State
Date Became Current: 19510101
Date Ended Current: Not reported
Owner/Operator Address: ROBERT MOSES BLDG, ROOM 115 D
Owner/Operator City,State,Zip: NEW YORK, NY 10035
Owner/Operator Telephone: 212-360-3073
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MTA BRIDGES & TUNNELS (TBTA)
Legal Status: State
Date Became Current: 19500525
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MTA BRIDGES & TUNNELS
Legal Status: State
Date Became Current: 19390429
Date Ended Current: Not reported
Owner/Operator Address: R MOSES BLG
Owner/Operator City,State,Zip: NEW YORK, NY 10035-5199
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MTA BRIDGES & TUNNELS
Legal Status: State
Date Became Current: 19390429
Date Ended Current: Not reported
Owner/Operator Address: R MOSES BLG

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Owner/Operator City,State,Zip:	NEW YORK, NY 10035-5199
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: MTA BRIDGES & TUNNELS	
Legal Status:	State
Date Became Current:	19390429
Date Ended Current:	Not reported
Owner/Operator Address:	R. MOSES BLG., RANDALL'S ISLAN
Owner/Operator City,State,Zip:	NEW YORK, NY 10035-5199
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: MTA BRIDGES & TUNNELS	
Legal Status:	State
Date Became Current:	19500525
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: TRIBORO BRG & TUN AUTH	
Legal Status:	State
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: MTA BRIDGES AND TUNNELS	
Legal Status:	State
Date Became Current:	19510101
Date Ended Current:	Not reported
Owner/Operator Address:	ROBERT MOSES BUILDING, ROOM 11
Owner/Operator City,State,Zip:	NEW YORK, NY 10035
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: MTA BRIDGES AND TUNNELS	
Legal Status:	State

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Date Became Current: 19510101
Date Ended Current: Not reported
Owner/Operator Address: ROBERT MOSES BLDG RM 11
Owner/Operator City,State,Zip: NEW YORK, NY 10035
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MTA BRIDGES & TUNNELS
Legal Status: State
Date Became Current: 19390429
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MTA-BRIDGES AND TUNNELS
Legal Status: State
Date Became Current: 19510101
Date Ended Current: Not reported
Owner/Operator Address: ROBERT MOSES BLDG RM 115 D
Owner/Operator City,State,Zip: NEW YORK, NY 10035
Owner/Operator Telephone: 212-360-3073
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20100309
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20120305
Handler Name: NYSDOT BRONX WHITESTONE BRIDGE BIN # 55211229
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20180213
Handler Name: NYSDOT BIN 55211229 - BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20060226
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20071210
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20180219
Handler Name: MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 19891004
Handler Name: TBTA - BRONX WHITESTONE BRIDGE

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20071211
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920220
Handler Name: BX-WHISTONE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940328
Handler Name: BRONX-WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19950327
Handler Name: BRONX-WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19980302
Handler Name: TBTA/BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20010101
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020314
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20040226
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Receive Date: 20060227
Handler Name: BRONX WHITESTONE BRIDGE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 485999
NAICS Description: ALL OTHER TRANSIT AND GROUND PASSENGER TRANSPORTATION

NAICS Code: 48849
NAICS Description: OTHER SUPPORT ACTIVITIES FOR ROAD TRANSPORTATION

Has the Facility Received Notices of Violations:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19970721
Actual Return to Compliance Date: 19970828
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19970821
Enforcement Identifier: 000
Date of Enforcement Action: 19970721
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: NY
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYADS
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	19960916
Actual Return to Compliance Date:	19971030
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	19970219
Enforcement Identifier:	000
Date of Enforcement Action:	19970121
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R2MH
Enforcement Responsible Sub-Organization:	RCB
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20090311
Actual Return to Compliance Date: 20090428
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20090402
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYACY
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19970709
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	NYADS
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	19970828
Scheduled Compliance Date:	19970821
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19960916
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	R2MH
Evaluation Responsible Sub-Organization:	RCB
Actual Return to Compliance Date:	19971030
Scheduled Compliance Date:	19970219
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20190702
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	NYSR
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20090311
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	NYACY
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	20090428
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

E MANIFEST:

Manifest Tracking Number:	015548666FLE
Last Updated Date:	20210813
Shipped Date:	20210709
Received Date:	20210709
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD982796377
Generator Name:	Triborough Br & Tunnel Auth Cont# Wbm-376
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	WBM-376 BRONX WHITESTONE BR
Generator Mail Street 2:	Not reported
Generator Mail City:	QUEENS
Generator Mail State:	NY
Generator Mail Zip:	10465-1857
Generator Location Street Number:	Not reported
Generator Location Street 1:	1 HUTCHINSON RIVER PKWY
Generator Location Street 2:	Not reported
Generator Location City:	BRONX
Generator Location Zip:	10465
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD991291105
Designated Facility Name:	Clean Earth Of North Jersey
Designated Facility Mail Street Number:	105
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	JACOBUS AVE
Designated Facility Mail City:	KEARNY
Designated Facility Mail Zip:	07032
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	105
Designated Facility Location Street 1:	JACOBUS AVE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	KEARNY
Designated Facility Location Zip:	07032
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	017582348FLE
Last Updated Date:	20220923
Shipped Date:	20220915
Received Date:	20220916
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD982796377
Generator Name:	Mta Bridge Bin 55211229 - Bronx Whitestone Bridge
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRONX WHITESTONE BR
Generator Mail Street 2:	Not reported
Generator Mail City:	QUEENS
Generator Mail State:	NY
Generator Mail Zip:	11357
Generator Location Street Number:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Generator Location Street 1:	R1 HUTCHINSON RIVER PKWY
Generator Location Street 2:	Not reported
Generator Location City:	BRONX
Generator Location Zip:	10465
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD991291105
Designated Facility Name:	Clean Earth Of North Jersey
Designated Facility Mail Street Number:	105
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	JACOBUS AVE
Designated Facility Mail City:	KEARNY
Designated Facility Mail Zip:	07032
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	105
Designated Facility Location Street 1:	JACOBUS AVE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	KEARNY
Designated Facility Location Zip:	07032
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Federal Waste:

Manifest Tracking Number:	017582348FLE
Waste Line Number:	1
Federal Waste Code:	D008
Federal Waste:	LEAD

Transporter:

Manifest Tracking Number:	017582348FLE
Transporter Line Number:	1
Transporter EPA ID:	NJR986628162
Transporter Name:	Iwt Transport, Inc.

Waste Line:

Manifest Tracking Number:	017582348FLE
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA3077
U.S. DOT Description:	Na3077, Hazardous Waste, Solid N.O.S., 9, Pg Iii, Rq
Non-Hazardous Waste Description:	Not reported
Number of Containers:	1
Container Type Code:	DM
Container Type Description:	Metal drums, barrels, kegs
Waste Quantity:	25
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.0125
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.0125
Waste Quantity, in Kilograms:	11.337875
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	11.337875
Management Method Code:	H110

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Management Method Description:	STABILIZATION
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

PA MANIFEST:

Name:	TBTA BRONX WHITESTONE BRIDGE
Address:	FERRY POINT PK
City,State,Zip:	BRONX, NY 10465
Year:	2005
Manifest Number:	PAH190052
Manifest Type:	T
Generator EPA ID:	NYD982796377
Generator Date:	05/02/2005
Mailing Address:	RANDALLS ISLAND
Contact Name:	MIKE LEOTE
Contact Phone:	212-360-2853
TSD EPA ID:	PAD085690592
TSD Date:	05/06/2005
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS
TSD Facility Address:	2869 SANDSTONE DR
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	9
Container Type:	DM
Waste Quantity:	6300
Unit:	P
Handling Code:	Not reported
TSP EPA ID:	PAD982661381
Date TSP Sig:	05/02/2005

Year:	2012
Manifest Number:	008770999JJK
Manifest Type:	T
Generator EPA ID:	NYD982796377
Generator Date:	03/01/2012
Mailing Address:	Not reported
Contact Name:	Not reported
Contact Phone:	212-360-2853
TSD EPA ID:	Not reported
TSD Date:	Not reported
TSD Facility Name:	Envirite of Pennsylvania Inc

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

TSD Facility Address:	730 Vogelsong Rd
TSD Facility City:	York
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	2
Container Type:	DM
Waste Quantity:	325
Unit:	P
Handling Code:	Not reported
TSP EPA ID:	PAD010154045
Date TSP Sig:	Not reported
Year:	2010
Manifest Number:	000390295JJK
Manifest Type:	T
Generator EPA ID:	NYD982796377
Generator Date:	12/06/2010
Mailing Address:	Not reported
Contact Name:	Not reported
Contact Phone:	212-360-2853
TSD EPA ID:	PAD010154045
TSD Date:	Not reported
TSD Facility Name:	ENVIRITE OF PENNSYLVANIA INC
TSD Facility Address:	730 VOGELSONG ROAD
TSD Facility City:	YORK
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	1
Container Type:	CM
Waste Quantity:	15
Unit:	Y
Handling Code:	Not reported
TSP EPA ID:	Not reported
Date TSP Sig:	Not reported
Year:	2010
Manifest Number:	003196917FLE
Manifest Type:	T
Generator EPA ID:	NYD982796377
Generator Date:	03/08/2010
Mailing Address:	Not reported
Contact Name:	Not reported
Contact Phone:	212-360-2853
TSD EPA ID:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Line Number:	1
Waste Number:	D008
Container Number:	1
Container Type:	DM
Waste Quantity:	20
Unit:	P
Handling Code:	Not reported
TSP EPA ID:	Not reported
Date TSP Sig:	Not reported

Year:	2011
Manifest Number:	007637374JJK
Manifest Type:	T
Generator EPA ID:	NYD982796377
Generator Date:	03/09/2011
Mailing Address:	Not reported
Contact Name:	Not reported
Contact Phone:	212-360-2853
TSD EPA ID:	PAD010154045
TSD Date:	Not reported
TSD Facility Name:	ENVIRITE OF PENNSYLVANIA INC
TSD Facility Address:	730 VOGELSONG ROAD
TSD Facility City:	YORK
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	5
Container Type:	DM
Waste Quantity:	1600
Unit:	P
Handling Code:	Not reported
TSP EPA ID:	Not reported
Date TSP Sig:	Not reported

Year:	2007
Manifest Number:	002131872JJK
Manifest Type:	Not reported
Generator EPA ID:	NYD982796377
Generator Date:	01/11/2007
Mailing Address:	Not reported
Contact Name:	MIKE LEOTE
Contact Phone:	212-360-2853
TSD EPA ID:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	1
Container Type:	DM
Waste Quantity:	100

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Unit:	P
Handling Code:	Not reported
TSP EPA ID:	Not reported
Date TSP Sig:	Not reported

Year:	2006
Manifest Number:	002124737JJK
Manifest Type:	T
Generator EPA ID:	NYD982796377
Generator Date:	11/20/2006
Mailing Address:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA ID:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	212-360-2853
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	20
Container Type:	DM
Waste Quantity:	16000
Unit:	P
Handling Code:	Not reported
TSP EPA ID:	Not reported
Date TSP Sig:	Not reported

Year:	2006
Manifest Number:	PAH290693
Manifest Type:	T
Generator EPA ID:	NYD982796377
Generator Date:	07/26/2006
Mailing Address:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA ID:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	212-360-2853
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	14
Container Type:	DM
Waste Quantity:	11200
Unit:	P
Handling Code:	Not reported
TSP EPA ID:	Not reported
Date TSP Sig:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

NJ MANIFEST:

EPA ID:	NYD982796377
Name:	TBTA-BRONX-WHITESTONE BRIDGE
Address:	FERRY POINT PARK
City,State,Zip:	BRONX, NY 10465
County:	Not reported
Mailing Address:	10 COLUMBUX CIR
Mailing City,State,Zip:	NEW YORK 10019
Telephone:	2124688454
Emergency Telephone:	Not reported
Contact:	Not reported
Comments:	Not reported
SIC Code:	Not reported
County:	00
Municipal:	00
Previous EPAID:	Not reported
Generator Flag:	X
Transporter Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	000000

Manifest Data:

EPA ID:	NYD982796377
Manifest Number:	000457153WAS
Date Shipped:	12/23/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	200.00
Unit:	Pounds

EPA ID:	NYD982796377
Manifest Number:	000201007WAS
Date Shipped:	11/11/2008
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	11/11/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	11/12/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	N
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Waste Code:	D008
Hand Code:	H111
Quantity:	23100
Unit:	P

EPA ID:	NYD982796377
Manifest Number:	000892223JJK
Date Shipped:	02/13/2009
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	02/13/2009
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	02/13/2009
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	N
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H141
Quantity:	15
Unit:	G

EPA ID:	NYD982796377
Manifest Number:	NJA5006929
Date Shipped:	03/03/2004

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	03/03/2004
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	03/03/2004
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	03300425
Was Load Rejected:	N
Reason Load Was Rejected:	Not reported

EPA ID:	NYD982796377
Manifest Number:	000198563WAS
Date Shipped:	07/31/2009
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	07/31/2009
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	07/31/2009
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	N
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	F003
Hand Code:	H061
Quantity:	385
Unit:	G

EPA ID:	NYD982796377
Manifest Number:	000201195WAS
Date Shipped:	03/04/2009
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	03/04/2009
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	03/04/2009
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	N
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	2700
Unit:	P

EPA ID:	NYD982796377
Manifest Number:	003536100JJK
Date Shipped:	06/05/2009
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	06/05/2009
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	06/05/2009
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Data Entry Number:	Not reported
Was Load Rejected:	N
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H061
Quantity:	55
Unit:	G

EPA ID:	NYD982796377
Manifest Number:	000196516WAS
Date Shipped:	10/02/2008
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	10/02/2008
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	10/03/2008
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	N
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	F003
Hand Code:	H061
Quantity:	275

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Unit:	G
EPA ID:	NYD982796377
Manifest Number:	009406226FLE
Date Shipped:	1/13/2017
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJR986628162
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported
EPA ID:	NYD982796377
Manifest Number:	009406257FLE
Date Shipped:	1/27/2017
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJR986628162
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

EPA ID:	NYD982796377
Manifest Number:	000422445WAS
Date Shipped:	8/23/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported

MTA BRIDGE BIN 55211229 - BRONX WHITESTONE BRIDGE (Continued) **1000141522**

Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D008
Hand Code:	H111
Quantity:	200.00
Unit:	Pounds

Click this hyperlink while viewing on your computer to access
23 additional NJ MANIFEST: record(s) in the EDR Site Report.

F27 **545 BRUSH AVE/BX/U.P.S** **NY LTANKS** **S100145768**
NNW **545 BRUSH AVENUE** **N/A**
1/8-1/4 **NEW YORK CITY, NY**
0.131 mi.
694 ft. **Site 2 of 9 in cluster F**

Relative:
Lower

Actual:
5 ft.

LTANKS:

Name:	545 BRUSH AVE/BX/U.P.S
Address:	545 BRUSH AVENUE
City,State,Zip:	NEW YORK CITY, NY
Spill Number/Closed Date:	8909242 / 2003-02-27
Facility ID:	8909242
Site ID:	138397
Spill Date:	1989-12-20
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	TOMASELLO
Referred To:	Not reported
Reported to Dept:	1989-12-20
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1990-01-24
Spill Record Last Update:	2004-02-09
Spiller Name:	Not reported
Spiller Company:	Not reported

545 BRUSH AVE/BX/U.P.S (Continued) **S100145768**

Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	118343
DEC Memo:	Not reported
Remarks:	1K TANK FAILED TANK AUDITOR WITH LEAK RATE OF -0.971GPH, OWNER WILL ACCESS SITUATION, TANK MAY HAVE TO BE PULLED.

All TTF:

Facility ID:	8909242
Spill Number:	8909242
Spill Tank Test:	1536600
Site ID:	138397
Tank Number:	Not reported
Tank Size:	0
Material:	0001
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	138397
Operable Unit ID:	936424
Operable Unit:	01
Material ID:	442414
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

28
SSW
1/8-1/4
0.138 mi.
728 ft.

FERRY POINT PARK **NY SWF/LF** **S126022942**
10 HUTCHINSON ROVER PKWY, PENINSULA PROJECTING INTO THE EAST **NY ILI** **N/A**
BRONX, NY

Relative:
Lower

Actual:
12 ft.

SWF/LF:

Name:	FERRY POINT PARK
Address:	10 HUTCHINSON ROVER PKWY, PENINSULA PROJECTING INTO THE EAST RIVER ROUGHLY OPPOSITE TH
City,State,Zip:	BRONX, NY
Flag:	INACTIVE
Region Code:	2

FERRY POINT PARK (Continued) **S126022942**

Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	MSW
Activity Number:	Not reported
Active:	Not reported
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

ILI:

Name:	FERRY POINT PARK
Address:	10 HUTCHINSON ROVER PKWY, PENINSULA PROJECTING INTO THE EAST RIVER ROUGHLY OPPOSITE THE COLLEGE POINT AND MALBA NEIGHBORHOODS OF QUEEN
City,State,Zip:	BRONX, NY
Latitude:	40.809072
Longitude:	-73.837238
Region:	2
SWID:	03S01
NY Inactive List:	Not reported
Inactive Reg Number:	Not reported
Alternative Facility Names:	Not reported
Removed:	Not reported
Why Removed:	Not reported
Location Accuracy:	Not reported
Date Of Last Inspection:	15-Aug-18
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Authorization:	Not reported
Number:	Not reported
Issue Date:	Not reported

FERRY POINT PARK (Continued) **S126022942**

Expiration Date:	Not reported
Start Date:	1945
Stop Date:	1965
Landfill Type:	MSW

F29 NNW 1/8-1/4 0.148 mi. 779 ft.

UNITED PARCEL SERVICE
BRUSH AVE
BRONX, NY 10465

Site 3 of 9 in cluster F

RCRA-SQG **1000398442**
NY CBS AST **NYD986900728**
E MANIFEST
NY MANIFEST
NJ MANIFEST

Relative: Lower

Actual: 5 ft.

RCRA Listings:

Date Form Received by Agency:	20221221
Handler Name:	United Parcel Service - Brush Avenue (Nybru)
Handler Address:	Brush Ave
Handler City,State,Zip:	BRONX, NY 10465
EPA ID:	NYD986900728
Contact Name:	MILLER PONTON
Contact Address:	OAK ST
Contact City,State,Zip:	UNIONDALE, NY 11553
Contact Telephone:	631-316-3854
Contact Fax:	Not reported
Contact Email:	MPONTON@UPS.COM
Contact Title:	CORPORATE ENVIRONMENTAL COORDINATOR
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ny
State District:	NYSDEC R2
Mailing Address:	OAK ST
Mailing City,State,Zip:	UNIONDALE, NY 11553
Owner Name:	535 Brush Avenue Llc
Owner Type:	Private
Operator Name:	United Parcel Service
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline

UNITED PARCEL SERVICE (Continued) **1000398442**

202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20221223
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste
Waste Code:	D002
Waste Description:	Corrosive Waste
Waste Code:	D003
Waste Description:	Reactive Waste
Waste Code:	D007
Waste Description:	Chromium
Waste Code:	D011
Waste Description:	Silver
Waste Code:	D018
Waste Description:	Benzene
Waste Code:	D019
Waste Description:	Carbon Tetrachloride
Waste Code:	D021
Waste Description:	Chlorobenzene
Waste Code:	D026
Waste Description:	Cresol
Waste Code:	D028
Waste Description:	1,2-Dichloroethane
Waste Code:	D035
Waste Description:	Methyl Ethyl Ketone

UNITED PARCEL SERVICE (Continued) **1000398442**

Waste Code: D039
Waste Description: Tetrachloroethylene

Waste Code: NONE
Waste Description: Not Defined

Waste Code: P075
Waste Description: Nicotine, & Salts (Or) Pyridine, 3-(1-Methyl-2-Pyrrolidinyl)-,(S)-, & Salts

Waste Code: U080
Waste Description: Methane, Dichloro- (Or) Methylene Chloride

Waste Code: U112
Waste Description: Acetic Acid, Ethyl Ester (I) (Or) Ethyl Acetate (I)

Waste Code: U122
Waste Description: Formaldehyde

Waste Code: U134
Waste Description: Hydrofluoric Acid (C,T) (Or) Hydrogen Fluoride (C,T)

Waste Code: U154
Waste Description: Methanol (I) (Or) Methyl Alcohol (I)

Waste Code: U162
Waste Description: 2-Propenoic Acid, 2-Methyl-, Methyl Ester (I,T) (Or) Methyl Methacrylate (I,T)

Waste Code: U213
Waste Description: Furan, Tetrahydro-(I) (Or) Tetrahydrofuran (I)

Waste Code: U220
Waste Description: Benzene, Methyl- (Or) Toluene

Waste Code: U239
Waste Description: Benzene, Dimethyl- (I,T) (Or) Xylene (I)

Waste Code: U240
Waste Description: 2,4-D, Salts & Esters (Or) Acetic Acid, (2,4-Dichlorophenoxy)-, Salts & Esters (Or) Dichlorophenoxyacetic Acid 2,4-D

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: EMANUL CIMINELLO JR
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, WY 99999
Owner/Operator Telephone: 212-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: EMANUL CIMINELLO JR

UNITED PARCEL SERVICE (Continued) **1000398442**

Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: UNITED PARCEL SERVICE	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	55 GLENLAKE PKWY NE
Owner/Operator City,State,Zip:	ATLANTA, GA 30328
Owner/Operator Telephone:	551-255-6818
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	CEGOMEZ@UPS.COM

Owner/Operator Indicator:	Operator
Owner/Operator Name: UNITED PARCEL SERVICE	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	55 GLENLAKE PKWY NE
Owner/Operator City,State,Zip:	ATLANTA, GA 30328
Owner/Operator Telephone:	631-316-3854
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	MPONTON@UPS.COM

Owner/Operator Indicator:	Operator
Owner/Operator Name: EMANUL CIMINELLO JR	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, WY 99999
Owner/Operator Telephone:	212-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: 535 BRUSH AVENUE LLC	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1208 WYATT STREET
Owner/Operator City,State,Zip:	BRONX, NY 10460
Owner/Operator Telephone:	718-828-7272
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Owner/Operator Indicator: Owner
Owner/Operator Name: 535 BRUSH AVENUE LLC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1208 WYATT ST
Owner/Operator City,State,Zip: BRONX, NY 10460
Owner/Operator Telephone: 718-828-7272
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19950418
Handler Name: UNITED PARCEL SERVICE
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060101
Handler Name: UNITED PARCEL SERVICE
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070101
Handler Name: UNITED PARCEL SERVICE
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19900517
Handler Name: UNITED PARCEL SERVICE
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Ny
Large Quantity Handler of Universal Waste: No

UNITED PARCEL SERVICE (Continued) **1000398442**

Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20220324
Handler Name:	UNITED PARCEL SERVICE - BRUSH AVENUE (NYBRU)
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

Receive Date:	20221221
Handler Name:	UNITED PARCEL SERVICE - BRUSH AVENUE (NYBRU)
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	492110
NAICS Description:	COURIERS AND EXPRESS DELIVERY SERVICES

Has the Facility Received Notices of Violations:

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20220215
Actual Return to Compliance Date:	20221019
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	999
Date of Enforcement Action:	20220928
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	06-2022-0942
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:67
Consent/Final Order Respondent Name: Ups
Consent/Final Order Lead Agency: 0
Enforcement Type: MULTI SITE CA/FO
Enforcement Responsible Person: CAFO
Enforcement Responsible Sub-Organization: R06
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: LDR - General
Date Violation was Determined: 20220215
Actual Return to Compliance Date: 20221019
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 999
Date of Enforcement Action: 20220928
Enforcement Responsible Agency: EPA
Enforcement Docket Number: 06-2022-0942
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:67
Consent/Final Order Respondent Name: Ups
Consent/Final Order Lead Agency: 0
Enforcement Type: MULTI SITE CA/FO
Enforcement Responsible Person: CAFO
Enforcement Responsible Sub-Organization: R06
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	20220215
Actual Return to Compliance Date:	20221019
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	999
Date of Enforcement Action:	20220928
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	06-2022-0942
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	67
Consent/Final Order Respondent Name:	Ups
Consent/Final Order Lead Agency:	0
Enforcement Type:	MULTI SITE CA/FO
Enforcement Responsible Person:	CAFO
Enforcement Responsible Sub-Organization:	R06
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	20220215
Actual Return to Compliance Date:	20221019
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	999
Date of Enforcement Action:	20220928
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	06-2022-0942
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:67
Consent/Final Order Respondent Name: Ups
Consent/Final Order Lead Agency: 0
Enforcement Type: MULTI SITE CA/FO
Enforcement Responsible Person: CAFO
Enforcement Responsible Sub-Organization: R06
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19930302
Actual Return to Compliance Date: 19930524
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19930526
Enforcement Identifier: 000
Date of Enforcement Action: 19930511
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: NY
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: NYADS
Enforcement Responsible Sub-Organization: R2
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19930302
Actual Return to Compliance Date:	19930524
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	000
Date of Enforcement Action:	19930302
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	NY
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	NYADS
Enforcement Responsible Sub-Organization:	R2
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - Records/Reporting
Date Violation was Determined: 20220215
Actual Return to Compliance Date: 20221019
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 999
Date of Enforcement Action: 20220928
Enforcement Responsible Agency: EPA
Enforcement Docket Number: 06-2022-0942
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:67
Consent/Final Order Respondent Name: Ups
Consent/Final Order Lead Agency: 0
Enforcement Type: MULTI SITE CA/FO
Enforcement Responsible Person: CAFO
Enforcement Responsible Sub-Organization: R06
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	20220115
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	CAFO
Evaluation Responsible Sub-Organization:	R06
Actual Return to Compliance Date:	20221019
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20220115
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	CAFO
Evaluation Responsible Sub-Organization:	R06
Actual Return to Compliance Date:	20221019
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20220115
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	CAFO
Evaluation Responsible Sub-Organization:	R06
Actual Return to Compliance Date:	20221019
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20220115
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	CAFO
Evaluation Responsible Sub-Organization:	R06
Actual Return to Compliance Date:	20221019
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930105
Evaluation Responsible Agency:	State

UNITED PARCEL SERVICE (Continued) **1000398442**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	NYADS
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	19930524
Scheduled Compliance Date:	19930526
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930105
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	NYADS
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	19930524
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20100615
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	NYACY
Evaluation Responsible Sub-Organization:	R2
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20220115
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	CAFO
Evaluation Responsible Sub-Organization:	R06
Actual Return to Compliance Date:	20221019
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

CBS AST:

CBS Number:	2-000341
ICS Number:	Not reported
PBS Number:	2-601299
MOSF Number:	Not reported
SPDES Number:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Facility Status:	IN SERVICE
Facility Type:	I
Telephone:	(718) 828-8014
Facility Town:	NEW YORK CITY
Region:	STATE
Expiration Date:	03/11/2004
Total Capacity of All Active Tanks(gal):	400
Operator:	MARK MERCHANT
Emergency Contact:	PAUL VETRANO
Emergency Phone:	(718) 706-3121
Owner Name:	UNITED PARCEL SERVICE
Owner Address:	46-05 56 ROAD
Owner City,St,Zip:	MASPETH, NY 11378
Owner Telephone:	(718) 706-3105
Owner Type:	Corporate/Commercial
Owner Sub Type:	Not reported
Mail Name:	UNITED PARCEL SERVICE
Mail Contact Addr:	46-05 56 ROAD
Mail Contact Addr2:	Not reported
Mail Contact Contact:	PLANT ENGINEERING
Mail Contact City,St,Zip:	MASPETH, NY 11378
Mail Phone:	(718) 706-3105

Tank Id:	005D
CAS Number:	107211
Federal ID:	Not reported
Tank Status:	In Service
Install Date:	09/95
Tank Closed:	Not reported
Capacity (Gal):	200
Chemical:	Ethylene glycol
Tank Location:	Indoors, Belowground
Tank Type:	Steel/carbon steel
Total Tanks:	2
Tank Secret:	False
Tank Secondary Containment:	None
Tank Error Status:	No Missing Data
Date Entered:	03/10/1998
Certified Date:	12/20/2001
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	None,Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	00
Pipe Flag:	00
Leak Detection:	00
Overfill Protection:	04
Haz Percent:	50
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	Not reported
Is It There:	False

UNITED PARCEL SERVICE (Continued) **1000398442**

Delinquent:	False
Date Expired:	Not reported
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	11/27/2001

Tank Id:	005C
CAS Number:	107211
Federal ID:	Not reported
Tank Status:	In Service
Install Date:	09/95
Tank Closed:	Not reported
Capacity (Gal):	200
Chemical:	Ethylene glycol
Tank Location:	Indoors, Belowground
Tank Type:	Steel/carbon steel
Total Tanks:	2
Tank Secret:	False
Tank Secondary Containment:	None
Tank Error Status:	No Missing Data
Date Entered:	03/10/1998
Certified Date:	12/20/2001
Substance:	Single Hazardous Substance on DEC List
Internal Protection:	None
External Protection:	None,Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	Steel/Iron
Pipe Internal:	None
Pipe External:	00
Pipe Flag:	00
Leak Detection:	00
Overfill Protection:	04
Haz Percent:	50
Last Test:	Not reported
Due Date:	Not reported
SWIS Code:	6001
Lat/Long:	Not reported
Is Updated:	False
Renew Date:	Not reported
Is It There:	False
Delinquent:	False
Date Expired:	Not reported
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	11/27/2001

E MANIFEST:

Manifest Tracking Number:	001211496VES
Last Updated Date:	20190228
Shipped Date:	20190219
Received Date:	20190220
Manifest Status:	Signed

UNITED PARCEL SERVICE (Continued) **1000398442**

Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	1 EDEN LANE
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	1 EDEN LANE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001892719VES
Last Updated Date:	20230103
Shipped Date:	20221213
Received Date:	20221216
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	1 EDEN LANE
Designated Facility Mail Street 2:	L.L.C.
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	L.L.C.
Designated Facility Location Street 2:	1 EDEN LANE
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	002070694VES
Last Updated Date:	20220103
Shipped Date:	20211208
Received Date:	20211210
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	1 EDEN LANE
Designated Facility Mail Street 2:	L.L.C.
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	L.L.C.
Designated Facility Location Street 2:	1 EDEN LANE
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS
Manifest Residue Indicator:	N
Rejection Indicator:	N

UNITED PARCEL SERVICE (Continued) **1000398442**

Manifest Tracking Number:	001301805VES
Last Updated Date:	20190627
Shipped Date:	20190617
Received Date:	20190619
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	1 EDEN LANE
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	1 EDEN LANE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001307667VES
Last Updated Date:	20210623
Shipped Date:	20210617
Received Date:	20210617
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE

UNITED PARCEL SERVICE (Continued) **1000398442**

Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	1 EDEN LANE
Designated Facility Mail Street 2:	L.L.C.
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	L.L.C.
Designated Facility Location Street 2:	1 EDEN LANE
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001670332VES
Last Updated Date:	20200316
Shipped Date:	20200303
Received Date:	20200304
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	EDEN LANE
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	EDEN LANE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	FLANDERS

UNITED PARCEL SERVICE (Continued) **1000398442**

Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001670443VES
Last Updated Date:	20200613
Shipped Date:	20200601
Received Date:	20200605
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	EDEN LANE
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	EDEN LANE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001672071VES
Last Updated Date:	20210106
Shipped Date:	20201210
Received Date:	20201214
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE

UNITED PARCEL SERVICE (Continued) **1000398442**

Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	1 EDEN LANE
Designated Facility Mail Street 2:	L.L.C.
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	L.L.C.
Designated Facility Location Street 2:	1 EDEN LANE
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001672227VES
Last Updated Date:	20210409
Shipped Date:	20210325
Received Date:	20210331
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	1 EDEN LANE
Designated Facility Mail Street 2:	L.L.C.
Designated Facility Mail City:	FLANDERS

UNITED PARCEL SERVICE (Continued) **1000398442**

Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	L.L.C.
Designated Facility Location Street 2:	1 EDEN LANE
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001676379VES
Last Updated Date:	20200925
Shipped Date:	20200921
Received Date:	20200923
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	EDEN LANE
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	EDEN LANE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS LLC
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	001982310VES
Last Updated Date:	20220624
Shipped Date:	20220620
Received Date:	20220620
Manifest Status:	Signed

UNITED PARCEL SERVICE (Continued) **1000398442**

Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	NYD986900728
Generator Name:	United Parcel Service
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	BRUSH AVE
Generator Mail Street 2:	545 BRUSH AVE
Generator Mail City:	BRONX
Generator Mail State:	NY
Generator Mail Zip:	10465-1852
Generator Location Street Number:	Not reported
Generator Location Street 1:	BRUSH AVE
Generator Location Street 2:	3 WAREHOUSE LN
Generator Location City:	ELMSFORD
Generator Location Zip:	10465-1852
Generator Location State:	NY
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NJD980536593
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	1
Designated Facility Mail Street 1:	1 EDEN LANE
Designated Facility Mail Street 2:	L.L.C.
Designated Facility Mail City:	FLANDERS
Designated Facility Mail Zip:	07836
Designated Facility Mail State:	NJ
Designated Facility Location Street Number:	1
Designated Facility Location Street 1:	L.L.C.
Designated Facility Location Street 2:	1 EDEN LANE
Designated Facility Location City:	FLANDERS
Designated Facility Location Zip:	07836
Designated Facility Location State:	NJ
Designated Facility Contact Company Name:	VEOLIA ES TECHNICAL SOLUTIONS
Manifest Residue Indicator:	N
Rejection Indicator:	N

Federal Waste:

Manifest Tracking Number:	001219427VES
Waste Line Number:	1
Federal Waste Code:	D001
Federal Waste:	IGNITABLE WASTE

Manifest Tracking Number:	001219427VES
Waste Line Number:	1
Federal Waste Code:	D018
Federal Waste:	BENZENE

Manifest Tracking Number:	001219427VES
Waste Line Number:	1
Federal Waste Code:	D019
Federal Waste:	CARBON TETRACHLORIDE

Manifest Tracking Number:	001219427VES
Waste Line Number:	1
Federal Waste Code:	D021
Federal Waste:	CHLOROBENZENE

Manifest Tracking Number:	001219427VES

UNITED PARCEL SERVICE (Continued) **1000398442**

Waste Line Number: 1
Federal Waste Code: D028
Federal Waste: 1,2-DICHLOROETHANE

Manifest Tracking Number: 001219427VES
Waste Line Number: 1
Federal Waste Code: D029
Federal Waste: 1,1-DICHLOROETHYLENE

Manifest Tracking Number: 001219427VES
Waste Line Number: 1
Federal Waste Code: D035
Federal Waste: METHYL ETHYL KETONE

Manifest Tracking Number: 001219427VES
Waste Line Number: 1
Federal Waste Code: D039
Federal Waste: TETRACHLOROETHYLENE

Manifest Tracking Number: 001219427VES
Waste Line Number: 1
Federal Waste Code: D040
Federal Waste: TRICHLORETHYLENE

Manifest Tracking Number: 001219427VES
Waste Line Number: 2
Federal Waste Code: D001
Federal Waste: IGNITABLE WASTE

Manifest Tracking Number: 001219427VES
Waste Line Number: 2
Federal Waste Code: U154
Federal Waste: METHANOL (I) (OR) METHYL ALCOHOL (I)

Manifest Tracking Number: 001219427VES
Waste Line Number: 3
Federal Waste Code: D001
Federal Waste: IGNITABLE WASTE

Manifest Tracking Number: 001219427VES
Waste Line Number: 3
Federal Waste Code: D018
Federal Waste: BENZENE

Manifest Tracking Number: 001219427VES
Waste Line Number: 4
Federal Waste Code: D001
Federal Waste: IGNITABLE WASTE

State Waste:
Manifest Tracking Number: 001219427VES
Waste Line Number: 1
State Waste Code Owner: NY
State Waste Code: B
State Waste: Incineration, heat recovery, burning. Waste management method code to be used on e-Manifest only

UNITED PARCEL SERVICE (Continued) **1000398442**

Manifest Tracking Number: 001219427VES
Waste Line Number: 2
State Waste Code Owner: NY
State Waste Code: B
State Waste: Incineration, heat recovery, burning. Waste management method code to be used on e-Manifest only

Manifest Tracking Number: 001219427VES
Waste Line Number: 3
State Waste Code Owner: NY
State Waste Code: B
State Waste: Incineration, heat recovery, burning. Waste management method code to be used on e-Manifest only

Manifest Tracking Number: 001219427VES
Waste Line Number: 4
State Waste Code Owner: NY
State Waste Code: B
State Waste: Incineration, heat recovery, burning. Waste management method code to be used on e-Manifest only

Transporter:
Manifest Tracking Number: 001219427VES
Transporter Line Number: 1
Transporter EPA ID: NJD080631369
Transporter Name: Veolia Es Technical Solutions

Waste Line:
Manifest Tracking Number: 001219427VES
Waste Line Number: 1
U.S. DOT Hazardous Indicator: Y
U.S. DOT ID Number: UN1950
U.S. DOT Description: Un1950, Waste Aerosols, Flammable,(Each Not Exceeding 1l Capacity), 2.1, Rq (D001), Limited Quantity
Non-Hazardous Waste Description: Not reported
Number of Containers: 1
Container Type Code: DM
Container Type Description: Metal drums, barrels, kegs
Waste Quantity: 140
Quantity Unit of Measure Code: P
Quantity Unit of Measure Description: Pounds
Waste Quantity, in Tons: 0.07
Acute Waste Quantity, in Tons: 0
Non-Acute Waste Quantity, in Tons: 0.07
Waste Quantity, in Kilograms: 63.492104
Acute Waste Quantity, in Kilograms: 0
Non-Acute Waste Quantity, in Kilorgrams: 63.492104
Management Method Code: H141
Management Method Description: STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator: N
Quantity Discrepancy Indicator: N
Waste Type Discrepancy Indicator: N
Waste Density: Not reported
Waste Density Unit of Measure Code: Not reported
Waste Density Unit of Measure Description: Not reported
Form Code: Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Form Code Description: Not reported
Source Code: Not reported
Source Code Description: Not reported
Waste Minimization Code: Not reported
Waste Minimization Code Description: Not reported
Consent Number: Not reported
EPA Waste Indicator: Y

Manifest Tracking Number: 001219427VES
Waste Line Number: 2
U.S. DOT Hazardous Indicator: Y
U.S. DOT ID Number: UN1993
U.S. DOT Description: Un1993, Waste Flammable Liquids, N.O.S., (Methanol), 3, Ii
Non-Hazardous Waste Description: Not reported
Number of Containers: 1
Container Type Code: DM
Container Type Description: Metal drums, barrels, kegs
Waste Quantity: 120
Quantity Unit of Measure Code: P
Quantity Unit of Measure Description: Pounds
Waste Quantity, in Tons: 0.06
Acute Waste Quantity, in Tons: 0
Non-Acute Waste Quantity, in Tons: 0.06
Waste Quantity, in Kilograms: 54.4218
Acute Waste Quantity, in Kilograms: 0
Non-Acute Waste Quantity, in Kilorgrams: 54.4218
Management Method Code: H141
Management Method Description: STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator: N
Quantity Discrepancy Indicator: N
Waste Type Discrepancy Indicator: N
Waste Density: Not reported
Waste Density Unit of Measure Code: Not reported
Waste Density Unit of Measure Description: Not reported
Form Code: Not reported
Form Code Description: Not reported
Source Code: Not reported
Source Code Description: Not reported
Waste Minimization Code: Not reported
Waste Minimization Code Description: Not reported
Consent Number: Not reported
EPA Waste Indicator: Y

Manifest Tracking Number: 001219427VES
Waste Line Number: 3
U.S. DOT Hazardous Indicator: Y
U.S. DOT ID Number: UN1203
U.S. DOT Description: Un1203, Waste Gasoline Mixture, 3, Ii, Rq (D001, D018)
Non-Hazardous Waste Description: Not reported
Number of Containers: 1
Container Type Code: DM
Container Type Description: Metal drums, barrels, kegs
Waste Quantity: 290
Quantity Unit of Measure Code: P
Quantity Unit of Measure Description: Pounds
Waste Quantity, in Tons: 0.145
Acute Waste Quantity, in Tons: 0

UNITED PARCEL SERVICE (Continued) **1000398442**

Non-Acute Waste Quantity, in Tons:	0.145
Waste Quantity, in Kilograms:	131.51935
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	131.51935
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

Manifest Tracking Number:	001219427VES
Waste Line Number:	4
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	UN1479
U.S. DOT Description:	Un1479, Waste Oxidizing Solid, N.O.S., (Hydrogen Peroxide, Water), 5.1, Ii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	1
Container Type Code:	DM
Container Type Description:	Metal drums, barrels, kegs
Waste Quantity:	57
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	0.0285
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	0.0285
Waste Quantity, in Kilograms:	25.850355
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	25.850355
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

UNITED PARCEL SERVICE (Continued) **1000398442**

Click this hyperlink while viewing on your computer to access
2 additional US EManifest: record(s) in the EDR Site Report.

NY MANIFEST:

EPA ID:	NYD986900728
Country:	USA
Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVE
Address 2:	Not reported
City,State,Zip:	BRONX, NY 10465
Zip 4:	Not reported
Location Address 1:	545 BRUSH AVE
Location Address 2:	Not reported
Location City,State,Zip:	BRONX, NY 10465
Location Zip 4:	Not reported
Facility Status:	Not reported
Total Tanks:	Not reported
Code:	BP

Mailing:

Mailing Name:	UNITED PARCEL SERVICE
Mailing Contact:	LEO EWERS
Mailing Address 1:	545 BRUSH AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	BRONX, NY 10465
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	2126316444

Manifest Data:

Document ID:	NYC3363805
Manifest Status:	Not reported
Trans1 State ID:	JU4819
Year:	1994
Trans2 State ID:	Not reported
Generator Ship Date:	12/08/1994
Trans1 Recv Date:	12/08/1994
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/08/1994
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD980785760
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

MGMT Method Type Code:	Not reported
Waste Code 1:	TETRACHLOROETHYLENE
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	00015
Units:	Gallons (liquids only)
Number of Containers:	001
Container Type:	Metal drums, barrels, kegs
Handling Method:	Recycle
Specific Gravity:	01.00
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	11/28/2017
Trans1 Recv Date:	11/28/2017
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/28/2017
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD980536593
TSDF ID 2:	Not reported
Manifest Tracking Number:	000063951VES
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	IGNITABLE WASTE
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	BENZENE
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	880
Units:	Pounds
Number of Containers:	2

UNITED PARCEL SERVICE (Continued) **1000398442**

Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	11/28/2017
Trans1 Recv Date:	11/28/2017
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/28/2017
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD980536593
TSDF ID 2:	Not reported
Manifest Tracking Number:	000063951VES
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	BENZENE
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	85
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	11/15/2011

UNITED PARCEL SERVICE (Continued) **1000398442**

Trans1 Recv Date:	11/15/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/16/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD980536593
TSDF ID 2:	Not reported
Manifest Tracking Number:	000348544VES
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	MERCURY
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	150
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Recycle
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	11/15/2011
Trans1 Recv Date:	11/15/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/16/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NJD980536593
TSDF ID 2:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Manifest Tracking Number:	000348544VES
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H141
Waste Code a:	IGNITABLE WASTE
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	16
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	IND058484114
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	07/23/2010
Trans1 Recv Date:	07/23/2010
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/19/2010
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	OHD980613541
TSDF ID 2:	Not reported
Manifest Tracking Number:	000340595WAS
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H040
Waste Code a:	IGNITABLE WASTE
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	138
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	IND058484114
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	07/23/2010
Trans1 Recv Date:	07/23/2010
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/19/2010
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	OHD980613541
TSDF ID 2:	Not reported
Manifest Tracking Number:	000340595WAS
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H040
Waste Code a:	IGNITABLE WASTE
Waste Code b:	METHYL ETHYL KETONE
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	152
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1

Document ID:	NYC3498783
Manifest Status:	Not reported
Trans1 State ID:	JU4819
Year:	1995
Trans2 State ID:	Not reported
Generator Ship Date:	03/07/1995
Trans1 Recv Date:	03/07/1995
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/07/1995
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD980785760
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code 1:	TETRACHLOROETHYLENE
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	00014
Units:	Gallons (liquids only)
Number of Containers:	001
Container Type:	Metal drums, barrels, kegs
Handling Method:	Recycle
Specific Gravity:	01.00

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	IND058484114
Year:	2018
Trans2 State ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Generator Ship Date:	06/17/2009
Trans1 Recv Date:	06/17/2009
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/30/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	OHD980613541
TSDF ID 2:	Not reported
Manifest Tracking Number:	000245179WAS
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H040
Waste Code a:	IGNITABLE WASTE
Waste Code b:	METHYL ETHYL KETONE
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	146
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	IND058484114
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	05/01/2007
Trans1 Recv Date:	05/01/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/21/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	OHD980613541

UNITED PARCEL SERVICE (Continued) **1000398442**

TSDF ID 2:	Not reported
Manifest Tracking Number:	000112414WAS
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H040
Waste Code a:	METHANE, DICHLORO- (OR) METHYLENE CHLORIDE
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	89
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	IND058484114
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	05/28/2010
Trans1 Recv Date:	05/28/2010
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/22/2010
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986900728
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	OHD980613541
TSDF ID 2:	Not reported
Manifest Tracking Number:	000337239WAS
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	H040
Waste Code a:	METHANE, DICHLORO- (OR) METHYLENE CHLORIDE
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	71
Units:	Pounds
Number of Containers:	1
Container Type:	Metal drums, barrels, kegs
Handling Method:	Burn
Specific Gravity:	1

Click this hyperlink while viewing on your computer to access
255 additional NY MANIFEST: record(s) in the EDR Site Report.

NJ MANIFEST:

EPA ID:	NYD986900728
Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
County:	Not reported
Mailing Address:	EXECUTIVE BLVD
Mailing City,State,Zip:	ELMSFORD, NY 10523
Telephone:	Not reported
Emergency Telephone:	Not reported
Contact:	Not reported
Comments:	Not reported
SIC Code:	Not reported
County:	NY005
Municipal:	Not reported
Previous EPAID:	Not reported
Generator Flag:	Not reported
Transporter Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest Data:

EPA ID:	NYD986900728
Manifest Number:	000348544VES
Date Shipped:	11/15/2011
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H141
Quantity:	10.00
Unit:	Pounds

Manifest Year:	Not reported
Waste Code:	D009
Hand Code:	H141
Quantity:	150.00
Unit:	Pounds

EPA ID:	NYD986900728
Manifest Number:	000806607VES
Date Shipped:	2/20/2013
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	93.00
Unit:	Pounds

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	45.00
Unit:	Pounds

EPA ID:	NYD986900728
Manifest Number:	000806607VES
Date Shipped:	2/20/2013
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	93.00
Unit:	Pounds

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	45.00
Unit:	Pounds

EPA ID:	NYD986900728
Manifest Number:	000517494VES
Date Shipped:	2/16/2012
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001 D018
Hand Code:	Not reported
Quantity:	390.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
EPA ID:	NYD986900728
Manifest Number:	000517494VES
Date Shipped:	2/16/2012
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001 D018
Hand Code:	Not reported
Quantity:	390.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
EPA ID:	NYD986900728
Manifest Number:	000517494VES
Date Shipped:	2/16/2012
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001 D018
Hand Code:	Not reported
Quantity:	390.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	Not reported
Quantity:	60.00
Unit:	Pounds
EPA ID:	NYD986900728
Manifest Number:	000792415VES
Date Shipped:	4/24/2015
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

EPA ID:	NYD986900728
Manifest Number:	000792415VES
Date Shipped:	4/24/2015
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

EPA ID:	NYD986900728
Manifest Number:	000792415VES
Date Shipped:	4/24/2015
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

EPA ID:	NYD986900728
Manifest Number:	000790847VES
Date Shipped:	3/4/2016
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

EPA ID:	NYD986900728
Manifest Number:	000790847VES
Date Shipped:	3/4/2016
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported

UNITED PARCEL SERVICE (Continued) **1000398442**

Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	Not reported
Reason Load Was Rejected:	Not reported

Click this hyperlink while viewing on your computer to access
19 additional NJ MANIFEST: record(s) in the EDR Site Report.

F30 **UPS-BRUSH AVENUE** **NY TANKS** **U003067748**
NNW **545 BRUSH AVE** **NY SPDES** **N/A**
1/8-1/4 **BRONX, NY 10465**
0.148 mi.
779 ft. **Site 4 of 9 in cluster F**

Relative:
Lower

Actual:
5 ft.

TANKS:

Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVE
City,State,Zip:	NEW YORK, NY 10465
Facility Id:	2-258180
Region:	STATE
DEC Region:	2
Site Status:	Inactive
Program Type:	PBS
Expiration Date:	N/A
UTM X:	597950.90678
UTM Y:	4519097.57721

SPDES:

Name:	Ups-Brush Avenue
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
Permit Number:	NYR00D296
State-Region:	02
Expiration Date:	09/30/2017
Current Major Minor Status:	Minor

UPS-BRUSH AVENUE (Continued) **U003067748**

Primary Facility SIC Code:	Not reported
State Water Body Name:	WESTCHESTER CREEK
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	+40.818 / -73.839
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005
Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	UNITED PARCEL SERVICE INC
Non-Gov Permit Street Address:	UPS-BRUSH AVE
Non-Gov Permit Supplemental Location:	643 W 43RD ST
Non-Gov Permit City:	NEW YORK
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	10036
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	UNITED PARCEL SERVICE INC
Non-Gov Facility Street Address:	UPS-BRUSH AVENUE
Non-Gov Facility Supplemental Location:	643 W 43RD ST
Non-Gov Facility City:	NEW YORK
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10036
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Facility Type:	Not reported
Name:	Ups-Brush Avenue
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	UNITED PARCEL SERVICE INC
Non-Gov Permit Street Address:	643 W 43RD ST
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	NEW YORK
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	10036
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	UNITED PARCEL SERVICE INC
Non-Gov Facility Street Address:	UPS-BRUSH AVENUE
Non-Gov Facility Supplemental Location:	643 W 43RD ST
Non-Gov Facility City:	NEW YORK
Non-Gov Facility State Code:	NY

UPS-BRUSH AVENUE (Continued) **U003067748**

Non-Gov Facility Zip Code:	10036
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Facility Type:	Not reported
Name:	Ups-Brush Avenue
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005
Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	UNITED PARCEL SERVICE INC
Non-Gov Facility Street Address:	UPS-BRUSH AVENUE
Non-Gov Facility Supplemental Location:	643 W 43RD ST
Non-Gov Facility City:	NEW YORK
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	10036
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Facility Type:	Not reported

F31 **UNITED PARCEL SERVICE** **NY UST** **U004064869**
NNW **545 BRUSH AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10465**
0.148 mi.
779 ft. **Site 5 of 9 in cluster F**

Relative:
Lower

Actual:
5 ft.

UST:

Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Id/Status:	2-601299 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	01/27/2028

UNITED PARCEL SERVICE (Continued) **U004064869**

UTM X: 597958.40241
UTM Y: 4519250.94552
Site Type: Trucking/Transportation/Fleet Operation

Affiliation Records:

Site Id: 23266
Affiliation Type: Emergency Contact
Company Name: UNITED PARCEL SERVICE
Contact Type: Not reported
Contact Name: SHAKEERA JOHNSON
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (201) 341-0390
EMail: Not reported
Fax Number: Not reported
Modified By: MFLEONAR
Date Last Modified: 2018-02-15

Site Id: 23266
Affiliation Type: Facility Operator
Company Name: UNITED PARCEL SERVICE
Contact Type: Not reported
Contact Name: MILLER PONTON
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 678-8113
EMail: Not reported
Fax Number: Not reported
Modified By: JSMACRI
Date Last Modified: 2023-10-13

Site Id: 23266
Affiliation Type: Facility Owner
Company Name: UNITED PARCEL SERVICE
Contact Type: CORPORATE ENVIRONMENTAL COORDINATOR
Contact Name: MILLER PONTON
Address1: 643 WEST 43RD STREET
Address2: Not reported
City: NEW YORK
State: NY
Zip Code: 10036
Country Code: 001
Phone: (212) 316-3854
EMail: Not reported
Fax Number: Not reported
Modified By: JSMACRI
Date Last Modified: 2023-10-13

Site Id: 23266
Affiliation Type: Mail Contact

UNITED PARCEL SERVICE (Continued) **U004064869**

Company Name:	UNITED PARCEL SERVICE
Contact Type:	Not reported
Contact Name:	MILLER PONTON
Address1:	300 OAK STREET
Address2:	BUILDINGS & SYSTEMS ENGINEERING
City:	UNIONDALE
State:	NY
Zip Code:	11553
Country Code:	001
Phone:	(631) 316-3854
EMail:	MPONTON@UPS.COM
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2023-10-13

Tank Info:

Tank Number:	001
Tank ID:	10247
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	10000
Install Date:	12/01/1985
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Fiberglass coated steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	14
Date Test:	11/07/2013
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	JSMACRI
Last Modified:	10/13/2023

Equipment Records:

C01 - Pipe Location - Aboveground
H05 - Tank Leak Detection - In-Tank System (ATG)
F04 - Pipe External Protection - Fiberglass
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
L09 - Piping Leak Detection - Exempt Suction Piping
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
B00 - Tank External Protection - None
E04 - Piping Secondary Containment - Double walled UG

Tank Number:	001-A
Tank ID:	167541
Tank Status:	Closed - Removed
Material Name:	Closed - Removed

UNITED PARCEL SERVICE (Continued) **U004064869**

Capacity Gallons:	4000
Install Date:	10/01/1986
Date Tank Closed:	08/01/1995
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	99
Date Test:	12/01/1992
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
I00 - Overfill - None
H04 - Tank Leak Detection - Groundwater Well
B02 - Tank External Protection - Original Sacrificial Anode
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None

Tank Number:	002
Tank ID:	45358
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	500
Install Date:	10/01/1986
Date Tank Closed:	08/01/1995
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	9999
Common Name of Substance:	Other
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
B01 - Tank External Protection - Painted/Asphalt Coating
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
B02 - Tank External Protection - Original Sacrificial Anode

UNITED PARCEL SERVICE (Continued) **U004064869**

D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None

Tank Number:	003
Tank ID:	45359
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	500
Install Date:	10/01/1986
Date Tank Closed:	08/01/1995
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	9999
Common Name of Substance:	Other
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MJGRIFFI
Last Modified:	05/09/2022

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
I00 - Overfill - None
D02 - Pipe Type - Galvanized Steel
F00 - Pipe External Protection - None
B02 - Tank External Protection - Original Sacrificial Anode

Tank Number:	004
Tank ID:	52167
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	4000
Install Date:	09/01/1995
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	14
Date Test:	04/09/2004
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	JSMACRI
Last Modified:	10/13/2023

Equipment Records:

UNITED PARCEL SERVICE (Continued) **U004064869**

C01 - Pipe Location - Aboveground
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
F04 - Pipe External Protection - Fiberglass
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
G04 - Tank Secondary Containment - Double-Walled (Underground)
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
K01 - Spill Prevention - Catch Basin
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
I02 - Overfill - High Level Alarm
B04 - Tank External Protection - Fiberglass
J01 - Dispenser - Pressurized Dispenser
E04 - Piping Secondary Containment - Double walled UG

F32 **UPS** **NY LTANKS** **S102180041**
NNW **545 BRUSH AVE** **NY CBS** **N/A**
1/8-1/4 **BRONX, NY 10465** **NY Spills**
0.148 mi.
779 ft. **Site 6 of 9 in cluster F**

Relative:
Lower

Actual:
5 ft.

LTANKS:

Name:	545 BRUSH AVENUE
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	8908245 / 1992-09-30
Facility ID:	8908245
Site ID:	212269
Spill Date:	1989-11-17
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	B4
Cleanup Ceased:	1992-09-30
SWIS:	0301
Investigator:	BATTISTA
Referred To:	Not reported
Reported to Dept:	1989-11-17
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1989-11-29
Spill Record Last Update:	1994-05-12
Spiller Name:	Not reported
Spiller Company:	SAME
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	175908
DEC Memo:	Not reported
Remarks:	4K TANK TANK AUDITOR INCONCLUSIVE LEAK RATE.E.I AND R.

UPS (Continued) **S102180041**

All TTF:

Facility ID:	8908245
Spill Number:	8908245
Spill Tank Test:	1536438
Site ID:	212269
Tank Number:	Not reported
Tank Size:	0
Material:	0001
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	212269
Operable Unit ID:	935699
Operable Unit:	01
Material ID:	444995
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	Not reported
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

CBS:

Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
CBS Number:	2-000341
Program Type:	CBS
Facility Status:	Unregulated/Closed
Expiration Date:	Not reported
Dec Region:	2
UTMX:	597936.71079
UTMY:	4519223.33254

SPILLS:

Name:	545 BRUSH AVENUE
Address:	545 BRUSH AVENUE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9307821 / 1993-09-27
Facility ID:	9307821
Facility Type:	ER
DER Facility ID:	284956

UPS (Continued) **S102180041**

Site ID:	138398
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	C4
SWIS:	0301
Spill Date:	1993-09-27
Investigator:	CAMMISA
Referred To:	Not reported
Reported to Dept:	1993-09-27
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	1993-09-27
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1993-09-28
Spill Record Last Update:	2004-09-30
Spiller Name:	Not reported
Spiller Company:	UNK - VEHICLE
Spiller Address:	Not reported
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	Not reported
Remarks:	SORBENT WAS APPLIED BUT MARX OF MATERIAL WASHED TO STORM DRAIN - TRUCK ON FRIDAY CAME BY FOR ABSORBENT - NOTIFIED IWCS.

All Materials:

Site ID:	138398
Operable Unit ID:	986334
Operable Unit:	01
Material ID:	394073
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	Not reported
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

Name:	UPS
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
Spill Number/Closed Date:	2207848 / Not Reported
Facility ID:	2207848
Facility Type:	ER
DER Facility ID:	593338
Site ID:	647133
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301

UPS (Continued) **S102180041**

Spill Date:	2022-12-21
Investigator:	DXYE
Referred To:	Not reported
Reported to Dept:	2022-12-21
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	1
Date Entered In Computer:	2022-12-21
Spill Record Last Update:	2022-12-21
Spiller Name:	Not reported
Spiller Company:	UPS
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	BRIDGET
DEC Memo:	12/21/22 - Ye - DDO - Spoke with the caller, who is from Haz-Mat One. UPS, one of their clients, reported a punctured saddle tank that spilled 20 gallons of diesel. Miller Environmental is currently performing clean-up. Miller PM: Michael (631) 603-2564. Spoke with Michael. The spill is halfway cleaned up. They are first focusing the cleanup on the main part of the road, where there's a lot of traffic. They arrived in time to put sausage booms to prevent oil entering the soil and are using speedy dry and citrus cleaner. There are no drain impacts. They will send photos and the fully executed manifest.
Remarks:	punctured saddle tank, MILLER Env for clean up

All Materials:

Site ID:	647133
Operable Unit ID:	1394103
Operable Unit:	01
Material ID:	2409594
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20.00
Units:	G
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Name:	UPS
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	1807344 / 2022-07-06
Facility ID:	1807344
Facility Type:	ER

UPS (Continued) **S102180041**

DER Facility ID:	175908
Site ID:	578105
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	0301
Spill Date:	2018-10-09
Investigator:	RHLIN
Referred To:	Not reported
Reported to Dept:	2018-10-09
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2018-10-09
Spill Record Last Update:	2022-07-06
Spiller Name:	LAWRENCE ANDERSON
Spiller Company:	UPS
Spiller Address:	545 BRUSH AVE
Spiller Company:	999
Contact Name:	LAWRENCE ANDERSON
DEC Memo:	1010/18-Zhune spoke to Lawrence Anderson. Lawrence said equipment failure. There is no spill only equipment failure. Hydrostat test in the sump failed the test. Equipment need to be repair. 7/6/22-Lin-No release to the environmental. Case closed. UPS environmental coordinator: Miller Ponton 631-316-3854
Remarks:	test fail dispenser pan for #2

All Materials:

Site ID:	578105
Operable Unit ID:	1325857
Operable Unit:	01
Material ID:	2334518
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Name:	UPS
Address:	545 BRUSH AVE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9507165 / 2005-07-15
Facility ID:	9507165
Facility Type:	ER

UPS (Continued) **S102180041**

DER Facility ID:	175908
Site ID:	212270
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	B3
SWIS:	0301
Spill Date:	1995-09-12
Investigator:	MJHAGGER
Referred To:	Not reported
Reported to Dept:	1995-09-12
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1948-12-27
Spill Record Last Update:	2005-07-15
Spiller Name:	Not reported
Spiller Company:	SAME
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	PAUL HAMMEL
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was M TIBBE TRANSFERED FROM SIGONA TO TIBBE. 7/15/2005 JAA (Jack Aversa) file review. Reviewed UST closure report (Jan 1996) - requested by Mike Haggerty and faxed by LBG on 6/17/2005, Report Appendix- faxed by LBG on 6/27/2005, and Disposal receipts (faxed by LBG on 7/15/2005). Leggette, Brashears, and Graham, Inc (LBG) retained by UPS to observe and document the removal of tanks and piping. Two 550 gallon used oil USTs (1 steel, 1 fiberglass) and one 4,000 gallon (double wall steel, fiberglass coated) UST were removed from 2 separate excavations on Sept 5,12 and 13, 1995. Approx 20 feet of 1 inch diameter steel piping connected to a 10k gallon heating oil UST were replaced. UST remvoal and piping replacement conducted by Gas Installations Inc (GI), of Inwood NY. Steel tanks transported by GI to Broxn Iron and Metal works for recycling (receipt provided). FRP tank crushed and disposed by GI at a sanitary landfill. PID readings showed non-detect for used oil ust soil samples. 4 excavation samples were sent to the lab and were non-detect for BTEX. amd VOCs, non-detect for RCRA metals. UG piping confirmatory samples - 2 PAH's slightly exceeded STARS. Gasoline UST removal - soil screened with PID and separated into 2 piles(clean and gasoline impacted). Approx 100 yards stockpiled and later shipped off site for disposal/recycling (receipt included - soil remediation

UPS (Continued) **S102180041**

of Philadelphia). 6 post excavation samples indicated minor exceedances for total BTEX and MTBE.
Receipts provided for tank bottoms. PBS # 2-601299 - tanks shown as closed. No further action
required. File closed.

Remarks: FOUND CONTAMINATED SOIL AND SOME SHEEN ON GROUND WATER

All Materials:

Site ID:	212270
Operable Unit ID:	1018029
Operable Unit:	01
Material ID:	361593
Material Code:	0064A
Material Name:	unknown material
Case No.:	Not reported
Material FA:	Other
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

F33 NNW 1/8-1/4 0.148 mi. 779 ft. **UNITED PARCEL SERVICE 545 BRUSH AVENUE BRONX, NY 10465** **NY AST** **A100520422 N/A**

Site 7 of 9 in cluster F

Relative: Lower

Actual: 5 ft.

AST:

Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-000341
Program Type:	CBS
UTM X:	597936.71079
UTM Y:	4519223.33254
Expiration Date:	N/A
Site Type:	Trucking/Transportation/Fleet Operation

Tank Info:

Tank Number:	005C
Tank Id:	192772
Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - In Place
Pipe Model:	Not reported
Install Date:	09/01/1995
Capacity Gallons:	200
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	06/08/2012
Register:	True

UNITED PARCEL SERVICE (Continued) **A100520422**

Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	Not reported

Tank Number:	005D
Tank Id:	192773
Tank Location:	Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - In Place
Pipe Model:	Not reported
Install Date:	09/01/1995
Capacity Gallons:	200
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	06/08/2012
Register:	True
Modified By:	MJGRIFFI
Last Modified:	05/09/2022
Material Name:	Not reported

F34 **UNITED PARCEL SERVICE** **NY AST** **A100521063**
NNW **545 BRUSH AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10465**
0.148 mi.
779 ft. **Site 8 of 9 in cluster F**

Relative:
Lower

Actual:
5 ft.

AST:

Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-601299
Program Type:	PBS
UTM X:	597958.40241
UTM Y:	4519250.94552
Expiration Date:	01/27/2028
Site Type:	Trucking/Transportation/Fleet Operation

Affiliation Records:

Site Id:	23266
Affiliation Type:	Emergency Contact
Company Name:	UNITED PARCEL SERVICE
Contact Type:	Not reported
Contact Name:	SHAKEERA JOHNSON
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(201) 341-0390
EMail:	Not reported
Fax Number:	Not reported

UNITED PARCEL SERVICE (Continued) **A100521063**

Modified By:	MFLEONAR
Date Last Modified:	2018-02-15

Site Id:	23266
Affiliation Type:	Facility Operator
Company Name:	UNITED PARCEL SERVICE
Contact Type:	Not reported
Contact Name:	MILLER PONTON
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 678-8113
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2023-10-13

Site Id:	23266
Affiliation Type:	Facility Owner
Company Name:	UNITED PARCEL SERVICE
Contact Type:	CORPORATE ENVIRONMENTAL COORDINATOR
Contact Name:	MILLER PONTON
Address1:	643 WEST 43RD STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10036
Country Code:	001
Phone:	(212) 316-3854
EMail:	Not reported
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2023-10-13

Site Id:	23266
Affiliation Type:	Mail Contact
Company Name:	UNITED PARCEL SERVICE
Contact Type:	Not reported
Contact Name:	MILLER PONTON
Address1:	300 OAK STREET
Address2:	BUILDINGS & SYSTEMS ENGINEERING
City:	UNIONDALE
State:	NY
Zip Code:	11553
Country Code:	001
Phone:	(631) 316-3854
EMail:	MPONTON@UPS.COM
Fax Number:	Not reported
Modified By:	JSMACRI
Date Last Modified:	2023-10-13

Tank Info:

Tank Number:	005A

UNITED PARCEL SERVICE (Continued) **A100521063**

Tank Id: 54021
Material Code: 0015
Common Name of Substance: Motor Oil

Equipment Records:
I04 - Overfill - Product Level Gauge (A/G)
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
A00 - Tank Internal Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
L09 - Piping Leak Detection - Exempt Suction Piping
K01 - Spill Prevention - Catch Basin
E00 - Piping Secondary Containment - None
F00 - Pipe External Protection - None
D02 - Pipe Type - Galvanized Steel

Tank Location: Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 09/01/1995
Capacity Gallons: 200
Tightness Test Method: -
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: JSMACRI
Last Modified: 10/13/2023
Material Name: motor oil

Tank Number: 005B
Tank Id: 54022
Material Code: 0022
Common Name of Substance: Waste Oil/Used Oil

Equipment Records:
J00 - Dispenser - None
I04 - Overfill - Product Level Gauge (A/G)
C02 - Pipe Location - Underground/On-ground
G01 - Tank Secondary Containment - Diking (Aboveground)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
B01 - Tank External Protection - Painted/Asphalt Coating
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
E00 - Piping Secondary Containment - None
K01 - Spill Prevention - Catch Basin
L09 - Piping Leak Detection - Exempt Suction Piping
F00 - Pipe External Protection - None

Tank Location: Aboveground - on saddles, legs, racks, etc.... Tank bottom is elevated above grade or tank pad, allowing visual inspection.
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service

UNITED PARCEL SERVICE (Continued) **A100521063**

Pipe Model:	Not reported
Install Date:	09/01/1995
Capacity Gallons:	200
Tightness Test Method:	-
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	JSMACRI
Last Modified:	10/13/2023
Material Name:	waste oil/used oil

F35 **UNITED PARCEL SERVICE** **UST FINDER** **1028572234**
NNW **545 BRUSH AVENUE** **N/A**
1/8-1/4 **BRONX, NY 10465**
0.148 mi.
779 ft. **Site 9 of 9 in cluster F**

Relative:
Lower

Actual:
5 ft.

UST FINDER:

Object ID:	302595
Facility ID:	NY23266
Name:	UNITED PARCEL SERVICE
Address:	545 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Address Match Type:	Not reported
Open USTs:	2
Closed USTs:	3
TOS USTs:	0
Population 1500ft:	56
Private Wells 1500ft:	0
Within 100yr Floodplain:	No
Land Use:	Developed, High Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Facility Status:	Open UST(s)
Date of Last Inspection:	Not reported
EPA Region:	2
Tribe:	Not reported
Coordinate Source:	State
X Coord:	-73.838543
Y Coord:	40.817054
Latitude:	40.817054
Longitude:	-73.838543

UST FINDER:

Object ID:	1219826
Facility ID:	NY23266
Tank ID:	NY26950
Tank Status:	Closed
Installation Date:	1986/10/01 16:00:00+00

UNITED PARCEL SERVICE (Continued) **1028572234**

Removal Date: Not reported
Tank Capacity: 500
Substances: Not reported
Tank Wall Type: Not reported

Object ID: 1219827
Facility ID: NY23266
Tank ID: NY29421
Tank Status: Closed
Installation Date: 1986/10/01 16:00:00+00
Removal Date: Not reported
Tank Capacity: 500
Substances: Not reported
Tank Wall Type: Not reported

Object ID: 1219828
Facility ID: NY23266
Tank ID: NY31893
Tank Status: Closed
Installation Date: 1986/10/01 16:00:00+00
Removal Date: Not reported
Tank Capacity: 4000
Substances: Not reported
Tank Wall Type: Not reported

Object ID: 1219829
Facility ID: NY23266
Tank ID: NY28196
Tank Status: Open
Installation Date: 1985/12/01 16:00:00+00
Removal Date: Not reported
Tank Capacity: 10000
Substances: Not reported
Tank Wall Type: Not reported

Object ID: 1219830
Facility ID: NY23266
Tank ID: NY28621
Tank Status: Open
Installation Date: 1995/09/01 15:59:59+00
Removal Date: Not reported
Tank Capacity: 4000
Substances: Not reported
Tank Wall Type: Not reported

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36 **N Y BRUSH LLC** **RCRA-LQG** **1010327866**
NNW **650 BRUSH AVE** **NY MANIFEST** **NYR000140368**
1/8-1/4 **BRONX, NY 10465**
0.205 mi.
1083 ft.

Relative:
Lower

Actual:
9 ft.

RCRA Listings:
Date Form Received by Agency: 20070101
Handler Name: N Y Brush Llc
Handler Address: Brush Ave
Handler City,State,Zip: BRONX, NY 10465-1804
EPA ID: NYR000140368

N Y BRUSH LLC (Continued) **1010327866**

Contact Name:	CHENG LU
Contact Address:	15TH AVE
Contact City,State,Zip:	COLLEGE POINT, NY 11356
Contact Telephone:	718-358-2000 x2535
Contact Fax:	Not reported
Contact Email:	LUC@PEPSI-NY.COM
Contact Title:	Not reported
EPA Region:	02
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Ny
State District:	NYSDEC R2
Mailing Address:	15TH AVE
Mailing City,State,Zip:	COLLEGE POINT, NY 11356
Owner Name:	Ny Brush Llc C/O Pepsi-Cola Bottling Co
Owner Type:	Private
Operator Name:	N Y Brush Llc
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20150414
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No

N Y BRUSH LLC (Continued) **1010327866**

Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: N Y BRUSH LLC	
Legal Status:	Private
Date Became Current:	20060314
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: NY BRUSH LLC C/O PEPSI-COLA BOTTLING CO	
Legal Status:	Private
Date Became Current:	20060314
Date Ended Current:	Not reported
Owner/Operator Address:	50-35 56TH RD
Owner/Operator City,State,Zip:	MASPETH, NY 11378
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: N Y BRUSH LLC	
Legal Status:	Private
Date Became Current:	20060314
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: NY BRUSH LLC C/O PEPSI-COLA BOTTLING CO	
Legal Status:	Private
Date Became Current:	20060314
Date Ended Current:	Not reported
Owner/Operator Address:	50-35 56TH RD
Owner/Operator City,State,Zip:	MASPETH, NY 11378
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

N Y BRUSH LLC (Continued) **1010327866**

Historic Generators:

Receive Date:	20060628
Handler Name: N Y BRUSH LLC	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20070101
Handler Name: N Y BRUSH LLC	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20060629
Handler Name: N Y BRUSH LLC	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Ny
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Has the Facility Received Notices of Violations:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported

N Y BRUSH LLC (Continued) **1010327866**

Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	20130924
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	R2STP
Evaluation Responsible Sub-Organization:	RCB
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

NY MANIFEST:

EPA ID:	NYR000140368
Country:	USA
Name:	NY BRUSH LLC C/O PEPSI BOTTLING CO OF NY
Address:	650 BRUSH AVE
Address 2:	Not reported
City,State,Zip:	BRONX, NY 10465-1804
Zip 4:	Not reported
Location Address 1:	650 BRUSH AVENUE
Location Address 2:	Not reported
Location City,State,Zip:	BORNX, NY
Location Zip 4:	Not reported
Facility Status:	Not reported
Total Tanks:	Not reported
Code:	BP

N Y BRUSH LLC (Continued) **1010327866**

Mailing:

Mailing Name:	NY BRUSH LLC C/O PEPSI BOTTLING CO OF NY
Mailing Contact:	ALEXANDER VALLI
Mailing Address 1:	50 34 56TH ROAD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	MASPETH, NY 11378
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	9086687777

Manifest Data:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYR000097972
Year:	2018
Trans2 State ID:	Not reported
Generator Ship Date:	07/13/2006
Trans1 Recv Date:	07/13/2006
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/14/2006
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000140368
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD049836679
TSDF ID 2:	Not reported
Manifest Tracking Number:	NYG3468771
Import Indicator:	N
Export Indicator:	N
Discr Quantity Indicator:	N
Discr Type Indicator:	N
Discr Residue Indicator:	N
Discr Partial Reject Indicator:	N
Discr Full Reject Indicator:	N
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code a:	B007
Waste Code b:	Not reported
Waste Code c:	Not reported
Waste Code e:	Not reported
Waste Code f:	Not reported
Waste Code g:	Not reported
Waste Code 1:	Not reported
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Quantity:	21383
Units:	Kilograms
Number of Containers:	1
Container Type:	Dump truck
Handling Method:	Landfill

N Y BRUSH LLC (Continued) **1010327866**

Specific Gravity: 1

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37 NNW 1/4-1/2 0.315 mi. 1664 ft.

H.O. PENN MACHINERY COMPANY INC
699 BRUSH AVE
BRONX, NY 10465

NY LTANKS **U003644410**
NY TANKS **N/A**
NY Spills
NY SPDES

Relative: Lower

Actual: 10 ft.

LTANKS:

Name:	CLOSED-LACKOF RECENT INFO
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	9200766 / 2003-03-07
Facility ID:	9200766
Site ID:	186683
Spill Date:	1992-04-20
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	C4
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	ADMIN. CLOSED
Referred To:	Not reported
Reported to Dept:	1992-04-20
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1992-04-24
Spill Record Last Update:	2003-03-07
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	156030
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was ADMIN.CLOSED 03/07/2003 Closed Due To The Nature / Extent Of The Spill Report
Remarks:	3K. CLOSED DUE TO LACK OF ANY RECENT INFO-DOES NOT MEET ANY CLEANUP REQUIREMENTS.

All TTF:

Facility ID:	9200766
Spill Number:	9200766
Spill Tank Test:	1539893
Site ID:	186683
Tank Number:	Not reported
Tank Size:	0
Material:	0022

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	186683
Operable Unit ID:	964580
Operable Unit:	01
Material ID:	415541
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

Name:	H O PENN MACHINERY CO
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
Spill Number/Closed Date:	9612128 / 2006-12-13
Facility ID:	9612128
Site ID:	186684
Spill Date:	1997-01-08
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	C3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	rvketani
Referred To:	Not reported
Reported to Dept:	1997-01-08
CID:	270
Water Affected:	Not reported
Spill Notifier:	Affected Persons
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1997-01-08
Spill Record Last Update:	2006-12-18
Spiller Name:	FRED SCILIANO
Spiller Company:	H O PENN
Spiller Address:	699 BRUSH AVE
Spiller County:	001
Spiller Contact:	FRED SCILIANO

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Spiller Phone: (718) 409-8500
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 324195
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was MULQUEEN 11/8/04 - Austin - received Site assessment/tank closure report from Ira Conklin and sons for H.O. Penn on 8/5/04 - report dated 5/12/97 - end This was NOT transferred to CO 11/16/06 - Austin - Reassigned from Austin to Ketani for followup/review - end 12/6/06 - Raphael Ketani. The site is owned and occupied by H O Penn Machinery Co., Inc., 699 Brush Avenue, Bronx, 10465. The NYC Property Tax database and Property Shark do not list 699 Brush Avenue. The parent company is H O Penn Machinery Co., Inc., 122 Noxon Road, Poughkeepsie, NY, 12603, (845) 452-1200. The site in the Bronx is (718) 863-3800. The PBS case is #2-064084 and there are 2 tanks that were closed 1/1/97 and 6 active tanks. The active tanks are: 2-2000 gal. with lube oil and 1-2000 gal. with waste oil; 1-500 gal. with lube oil; 1-3000 gal. with diesel; 1-6000 gal. with #2 oil. These 6 tanks were installed 2/1/97. There was a tank test failure on 1/8/97 and the finding of contaminated soil around the tank. The caller was Stacey Pettine of Ira D. Conklin & Sons (914) 561-1512. I called H O Penn Machinery Co at (718) 863-3800, but could only leave a voice mail for Jeff Baumann of the Service Department. I sent a CSL. 12/8/06 - Raphael Ketani. Donna Eagan of H O Penn's Poughkeepsie office (845) 437-4069 left a voice mail yesterday stating that she will be working with DEC as Mr. Baumann is out. She asked me to call her to discuss what DEC needs in the way of documentation. I tried calling her, but could only leave a message. 12/11/06 - Raphael Ketani. Ms. Eagan called me. She said that she had a copy of the cleanup closure report for the Bronx site. I asked her to send me a copy. She said she would. 12/13/06 - Raphael Ketani. I received the closure report from Donna Egan. The report contained a short narative section, tables of PID readings for each excavation area - there was only a detection of 149.7 ppm for only the floor of excavation #1, a tank location diagram, a set of end-point soil analytical results for each excavation site - there were no detections, a tank cleaning certificat, a soil manifest, bills of lading for the tank bottoms, and soil tracking forms. Based on the documentation in the closure report, I am closing the case.
Remarks: contaminated soil around tank

All Materials:
Site ID: 186684
Operable Unit ID: 1043629
Operable Unit: 01
Material ID: 556396
Material Code: 0015
Material Name: motor oil
Case No.: Not reported
Material FA: Petroleum
Quantity: .00
Units: G
Recovered: .00
Resource Affected: Soil
Oxygenate: Not reported

Site ID: 186684
Operable Unit ID: 1043629

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Operable Unit:	01
Material ID:	556397
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

Site ID:	186684
Operable Unit ID:	1043629
Operable Unit:	01
Material ID:	556395
Material Code:	0010
Material Name:	hydraulic oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

TANKS:

Name:	H O PENN MACHINERY CO
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
Facility Id:	2-242586
Region:	STATE
DEC Region:	2
Site Status:	Inactive
Program Type:	PBS
Expiration Date:	N/A
UTM X:	597994.29622
UTM Y:	4519272.64068

SPILLS:

Name:	BUSINESS
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	1702321 / 2017-06-15
Facility ID:	1702321
Facility Type:	ER
DER Facility ID:	156030
Site ID:	551454
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	C4
SWIS:	0301
Spill Date:	2017-06-08
Investigator:	PXLAKHAN
Referred To:	Not reported

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Reported to Dept:	2017-06-08
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2017-06-08
Spill Record Last Update:	2017-06-15
Spiller Name:	Not reported
Spiller Company:	HAMPAN
Spiller Address:	Not reported
Spiller Company:	999
Contact Name:	MARCUS WESAW
DEC Memo:	06/08/17 - Lakhani The property is a Caterpillar dealership. The dealership has one Caterpillar in operation in the shop bay. During a normal procedure at the dealership, the Caterpillar's fuel line ruptured releasing 25 gallons of diesel onto the concrete. No drains or catch basins were affected. Miller Environmental was hired to complete the cleanup and provide DEC with a report. Contact for H.O. Penn Machinery Company, the dealership, is Markus Wesaw (Cell: 845-416-7173, Ph: 845-437-4069) 06/15/17 File Review: Spill Report (Miller Environmental, 06/14/17) - Miller was contacted by H.O. Penn Machinery Company, Inc. on 06/08/17 with a report of a hydraulic oil leak at the location. Upon inspection of the impacted area, it appeared that while working on payloader a hydraulic oil line was cut and hydraulic oil was released onto the concrete pavement. HO Penn personnel applied absorbents. Miller applied additional speedy dry to all impacted areas to contain and recover the discharged product. The speedy dry was swept up and containerized prior to offsite disposal. Miller reports that all impacted material has been recovered and disposed of an it appears that no further action is warranted regarding the spill. Spill is closed.
Remarks:	spill on pavement. clean up crew in route

All Materials:

Site ID:	551454
Operable Unit ID:	1299543
Operable Unit:	01
Material ID:	2305761
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	25.00
Units:	G
Recovered:	Not reported
Resource Affected:	Not reported

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Oxygenate:	Not reported

Name:	H.O. PENN MACHINERY
Address:	699 BRUSH AVE.
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0803910 / 2008-07-07
Facility ID:	0803910
Facility Type:	ER
DER Facility ID:	350003
Site ID:	400723
DEC Region:	2
Spill Cause:	Human Error
Spill Class:	Not reported
SWIS:	0301
Spill Date:	2008-07-03
Investigator:	hrpatel
Referred To:	Not reported
Reported to Dept:	2008-07-03
CID:	406
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	Not reported
Remediation Phase:	0
Date Entered In Computer:	2008-07-03
Spill Record Last Update:	2008-07-07
Spiller Name:	JIM STANCO
Spiller Company:	CENTRAL PETROLIUM
Spiller Address:	147 GAZZA BLVD.
Spiller Company:	001
Contact Name:	DONNA EGAN
DEC Memo:	07/07/08-Hiralkumar Patel. spoke with Jim at Central petorleum. oil spilled due to loose fittings on fill box. spilled on concrete pavement. no soil/sewer/drain affected. all cleaned up. case closed.
Remarks:	During a delivery....Mechanical / operator error. Old fitting on the fill pipe of the UST and fill nozzle was not in secure enough. Spill cause was a combo of both. Pavement impacted. No sewers or waterways etc. Used a machine for clean up. Material was put into a drum.

All TTF:

Facility ID:	0803910
Spill Number:	0803910
Spill Tank Test:	2486426
Site ID:	400723
Tank Number:	Not reported
Tank Size:	3000
Material:	0008
EPA UST:	Not reported
UST:	True
Cause:	04
Source:	02

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Watchdog
Last Modified Date:	Not reported

All Materials:

Site ID:	400723
Operable Unit ID:	1157537
Operable Unit:	01
Material ID:	2148561
Material Code:	0008
Material Name:	diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	16.00
Units:	G
Recovered:	16.00
Resource Affected:	Soil
Oxygenate:	Not reported

Name:	H.P.O. PENN TRUCK
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	0606856 / 2006-09-14
Facility ID:	0606856
Facility Type:	ER
DER Facility ID:	156030
Site ID:	370272
DEC Region:	2
Spill Cause:	Other
Spill Class:	C4
SWIS:	0301
Spill Date:	2006-09-14
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2006-09-14
CID:	444
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2006-09-14
Spill Record Last Update:	2006-09-14
Spiller Name:	DONNA EGAN
Spiller Company:	H.P.O. PENN TRUCK
Spiller Address:	699 BRUSH AVE
Spiller Company:	001
Contact Name:	DONNA EGAN
DEC Memo:	Not reported

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Remarks: AN ENGINE IN THE BACK OF A TRUCK FELL OVER AND KNOCKED A DRUM HOLDING OIL OVER: SOME MAY HAVE SPILLED OUT ON ROADWAY ALONG LONG ISLAND EXPRESSWAY AND BRONX: MOST WAS IN BACK OF TRUCK: ITY HAPPENED IN MIDDLE OF NIGHT WITH NIGHT DRIVER AND WHEN CALLER CAN GET A HOLD OF DRIVER SHE WILL HAVE MORE INFO: STILL INVESTIGATING:

All Materials:

Site ID:	370272
Operable Unit ID:	1128088
Operable Unit:	01
Material ID:	2117738
Material Code:	0015
Material Name:	motor oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	25.00
Units:	G
Recovered:	25.00
Resource Affected:	Soil
Oxygenate:	Not reported

Site ID:	370272
Operable Unit ID:	1128088
Operable Unit:	01
Material ID:	2117698
Material Code:	0066A
Material Name:	unknown petroleum
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	G
Recovered:	.00
Resource Affected:	Soil
Oxygenate:	Not reported

SPDES:

Name:	H.O. Penn Machinery Company Inc
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
Permit Number:	NYR00D814
State-Region:	02
Expiration Date:	09/30/2017
Current Major Minor Status:	Minor
Primary Facility SIC Code:	Not reported
State Water Body Name:	WESTCHESTER CREEK
Limit Set Status Flag:	Active
Total Actual Average Flow(MGD):	Not reported
Total App Design Flow(MGD):	Not reported
UDF1:	Not reported
Lat/Long:	+40.819 / -73.837
DMR Cognizant Official:	Not reported
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Permit Street Address:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Permit Supplemental Location:	122 NOXON RD
Non-Gov Permit City:	POUGHKEEPSIE
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	12603
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Facility Street Address:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Facility Supplemental Location:	122 NOXON ROAD
Non-Gov Facility City:	POUGHKEEPSIE
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	12603
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Facility Type:	Not reported

Name:	H.O. Penn Machinery Company Inc
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005

Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Permit Street Address:	122 NOXON RD
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	POUGHKEEPSIE
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	12603
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Facility Street Address:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Facility Supplemental Location:	122 NOXON ROAD
Non-Gov Facility City:	POUGHKEEPSIE
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	12603
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Facility Type:	Not reported

H.O. PENN MACHINERY COMPANY INC (Continued) **U003644410**

Name:	H.O. Penn Machinery Company Inc
Address:	699 BRUSH AVE
City,State,Zip:	BRONX, NY 10465
UDF2:	Not reported
UDF3:	Not reported
FIPS County Code:	NY005
Non-Gov Permit Affiliation Type Desc:	Not reported
Non-Gov Permit Org Formal Name:	Not reported
Non-Gov Permit Street Address:	Not reported
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	Not reported
Non-Gov Permit State Code:	Not reported
Non-Gov Permit Zip Code:	Not reported
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Facility Street Address:	H.O. PENN MACHINERY COMPANY INC
Non-Gov Facility Supplemental Location:	122 NOXON ROAD
Non-Gov Facility City:	POUGHKEEPSIE
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	12603
State Water Body:	Not reported
Region Permit Processed:	Not reported
Dow Discharge Class Code:	Not reported
SPDES Class Description:	Not reported
Affiliation Type Description:	Not reported
Name:	Not reported
Contacts Title:	Not reported
Contacts Email:	Not reported
NOI Submission Date:	Not reported
Facility Type:	Not reported

G38 **VERIZON NEW YORK INC (NY90549)** **NY LTANKS** **S100144737**
NW **500 ZEREGA AVENUE** **NY TANKS** **N/A**
1/4-1/2 **BRONX, NY 10473** **NY NYC LAND USE**
0.317 mi.
1672 ft. **Site 1 of 2 in cluster G**

Relative:
Lower

Actual:
4 ft.

LTANKS:

Name:	500 ZEREGA AVENUE
Address:	500 ZEREGA AVENUE
City,State,Zip:	BRONX, NY
Spill Number/Closed Date:	8703906 / 1996-08-06
Facility ID:	8703906
Site ID:	270294
Spill Date:	1987-08-11
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	A3
Cleanup Ceased:	Not reported
SWIS:	0301
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	1987-08-11
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False

VERIZON NEW YORK INC (NY90549) (Continued) **S100144737**

Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1987-08-20
Spill Record Last Update:	1997-04-17
Spiller Name:	Not reported
Spiller Company:	NEW YORK TELEPHONE/NYNEX
Spiller Address:	Not reported
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	220114
DEC Memo:	Not reported
Remarks:	EXCAVATE - ISOLATE - RETEST TANKS.

All TTF:

Facility ID:	8703906
Spill Number:	8703906
Spill Tank Test:	1531345
Site ID:	270294
Tank Number:	001
Tank Size:	550
Material:	Not reported
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	1.27
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

Facility ID:	8703906
Spill Number:	8703906
Spill Tank Test:	1531346
Site ID:	270294
Tank Number:	002
Tank Size:	550
Material:	Not reported
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	1.27
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

Facility ID:	8703906
Spill Number:	8703906
Spill Tank Test:	1531347
Site ID:	270294

VERIZON NEW YORK INC (NY90549) (Continued) **S100144737**

Tank Number:	003
Tank Size:	550
Material:	Not reported
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported
Test Method:	03
Test Method 2:	Horner EZ Check I or II
Leak Rate:	1.27
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	270294
Operable Unit ID:	910529
Operable Unit:	01
Material ID:	470116
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Resource Affected:	Groundwater
Oxygenate:	Not reported

TANKS:

Name:	VERIZON NEW YORK INC (NY90549)
Address:	500 ZEREGA AVENUE
City,State,Zip:	BRONX, NY 10473
Facility Id:	2-343587
Region:	STATE
DEC Region:	2
Site Status:	Active
Program Type:	PBS
Expiration Date:	12/14/2027
UTM X:	597533.55556
UTM Y:	4519149.05928

NYC LAND USE:

Name:	Not reported
Address:	500 ZEREGA AVENUE
City,State,Zip:	BRONX, NY 10473
Latitude:	40.8176118
Longitude:	-73.8432033
Type Of Ownership Code:	Not reported
Owner Name:	VERIZON NEW YORK INC.
Borough:	BX
Tax Block:	3542
Tax Lot:	13
Community District:	209
Census Tract 2020:	2009000

VERIZON NEW YORK INC (NY90549) (Continued) **S100144737**

Census Block 2020:	20090001004
Census Tract 2010:	90
Census Block 2010:	1004
School District:	08
City Council District:	18
Fire Company:	L047
Police Precinct:	43
Health Center District:	26
Health Area:	3100
Sanitation District Boro:	2
Sanitation District Number:	09
Sanitation Subsection:	4D
Zoning District 1:	M2-1: Manufacturing Districts
Zoning District 2:	Not reported
Zoning District 3:	Not reported
Zoning District 4:	Not reported
Commercial Overlay 1:	Not reported
Commercial Overlay 2:	Not reported
Special Purpose District 1:	Not reported
Special Purpose District 2:	Not reported
Special Purpose District 3:	Not reported
Limited Height District:	Not reported
Spill Boundary Indicator:	N
Building Class:	G1: GARAGES AND GASOLINE STATIONS - All Parking Garages
Land Use Category:	Parking Facilities
Number Of Easements:	0
Lot Area:	32785
Total Building Floor Area:	4200
Commercial Floor Area:	4200
Residential Floor Area:	0
Office Floor Area:	0
Retail Floor Area:	0
Garage Floor Area:	4200
Storage Floor Area:	0
Factory Floor Area:	0
Other Floor Area:	0
Total Building Floor Area Source Code:	2
Number Of Buildings:	1
Number Of Floors:	1.0000000
Residential Units:	0
Total Units:	1
Lot Frontage:	195.0000000
Lot Depth:	166.0000000
Building Frontage:	60.0000000
Building Depth:	61.5800000
Extension Code:	N
Proximity Code:	1
Irregular Lot Code:	Y
Lot Type:	3
Basement Type/Grade:	0
Assessed Land Value:	619200.00000
Assessed Total Value:	987300.00000
Exempt Total Value:	0.00000
Year Built:	1931
Year Altered 1:	1994
Year Altered 2:	2004
Historic District Name:	Not reported

VERIZON NEW YORK INC (NY90549) (Continued) **S100144737**

Landmark Status:	Not reported
Built Floor Area Ratio:	0.13000000000
Maximum Allowable Residential Far:	0.00000000000
Maximum Allowable Commercial Far:	2.00000000000
Maximum Allowable Community Facility Far:	0.00000000000
Boro Code:	2
Borough, Tax Block and Lot:	2035420013.00000000
Condominium Number:	Not reported
Census Tract 2:	0090
X Coordinate:	1027650
Y Coordinate:	237194
Zoning Map #:	7a
Zoning Map Code:	Not reported
Sanborn Map #:	219 066
Tax Map #:	21404
E-designation Number:	Not reported
Apportionment BBL:	Not reported
Apportionment Date:	Not reported
Pluto ??? Dtm Base Map Indicator:	1
2007 Flood Insurance Rate Map Indicator:	1
2015 Preliminary Flood Insurance Rate Map Indicator:	1
Version Number:	24v1.1
Changed By DCP:	Not reported

G39 **500 ZEREGA AVENUE** **UST FINDER RELEASE** **1029066249**
NW **500 ZEREGA AVENUE** **N/A**
1/4-1/2 **BRONX, NY 0**
0.317 mi.
1672 ft. **Site 2 of 2 in cluster G**

Relative:
Lower

Actual:
4 ft.

UST FINDER RELEASE:

Object ID:	260230
Facility ID:	NY220114
Lust ID:	NY8703906
Name:	500 ZEREGA AVENUE
Address:	500 ZEREGA AVENUE
City,State,Zip:	BRONX, NY 0
Address Match Type:	Not reported
Reported Date:	1987/08/11 16:00:00+00
Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	5364
Domestic Wells within 1500ft:	0
Land Use:	Developed, High Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	No
WHPA PWS Facility ID:	Not reported
WHPA Water Type:	Not reported
WHPA Facility Type:	Not reported
WHPA HUC12:	Not reported
Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	2
NFA Letter 1:	Not reported

500 ZEREGA AVENUE (Continued) **1029066249**

NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	State
X Coord:	-73.84433
Y Coord:	40.8166800000001
Latitude:	40.8166799999999
Longitude:	-73.8443299999999

40
South
1/4-1/2
0.333 mi.
1757 ft.

NYCDOS FERRY POINT PARK
44 BEAVER ST - 6TH FLOOR
BRONX, NY 10465

NY SWF/LF **S105912812**
N/A

Relative:
Higher

Actual:
32 ft.

SWF/LF:

Name:	NYCDOS FERRY POINT PARK
Address:	44 BEAVER ST - 6TH FLOOR
City,State,Zip:	BRONX, NY 10465
Flag:	INACTIVE
Region Code:	2
Phone Number:	2128378183
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Robert Lange
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Composting - yard waste - permit
Activity Number:	[03Y25]
Active:	No
East Coordinate:	598300
North Coordinate:	4517900
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

41 WNW 1/4-1/2 0.338 mi. 1784 ft. | **RAILROAD MAINTENANCE CORP.**
432 ZEREGA AVENUE
BRONX, NY 10473

NY SWF/LF **S105912814**
NY NYC LAND USE **N/A**

Relative: Lower

Actual: 10 ft.

SWF/LF:

Name:	RAILROAD MAINTENANCE CORP.
Address:	432 ZEREGA AVENUE
City,State,Zip:	BRONX, NY 10473
Flag:	INACTIVE
Region Code:	2
Phone Number:	2128922000
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	M.GRASSO
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Other
Activity Number:	[03Z19]
Active:	No
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6007-00096
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

NYC LAND USE:

Name:	Not reported
Address:	432 ZEREGA AVENUE
City,State,Zip:	BRONX, NY 10473
Latitude:	40.8163143
Longitude:	-73.8438024
Type Of Ownership Code:	Not reported
Owner Name:	TWO GIRLS & A BOY, .
Borough:	BX
Tax Block:	3513
Tax Lot:	22
Community District:	209
Census Tract 2020:	2009000
Census Block 2020:	20090001004
Census Tract 2010:	90
Census Block 2010:	1004
School District:	08
City Council District:	18

RAILROAD MAINTENANCE CORP. (Continued) **S105912814**

Fire Company:	L047
Police Precinct:	43
Health Center District:	26
Health Area:	3100
Sanitation District Boro:	2
Sanitation District Number:	09
Sanitation Subsection:	4C
Zoning District 1:	M1-1: Manufacturing Districts
Zoning District 2:	Not reported
Zoning District 3:	Not reported
Zoning District 4:	Not reported
Commercial Overlay 1:	Not reported
Commercial Overlay 2:	Not reported
Special Purpose District 1:	Not reported
Special Purpose District 2:	Not reported
Special Purpose District 3:	Not reported
Limited Height District:	Not reported
Spill Boundary Indicator:	N
Building Class:	S9: RESIDENCE - MULTIPLE USE - Single or Multiple Dwelling with Stores or Offices
Land Use Category:	Mixed Residential & Commercial Buildings
Number Of Easements:	0
Lot Area:	31050
Total Building Floor Area:	6680
Commercial Floor Area:	2934
Residential Floor Area:	3746
Office Floor Area:	2934
Retail Floor Area:	0
Garage Floor Area:	0
Storage Floor Area:	0
Factory Floor Area:	0
Other Floor Area:	0
Total Building Floor Area Source Code:	2
Number Of Buildings:	1
Number Of Floors:	3.0000000
Residential Units:	2
Total Units:	4
Lot Frontage:	75.3300000
Lot Depth:	354.0800000
Building Frontage:	50.0000000
Building Depth:	36.0000000
Extension Code:	Not reported
Proximity Code:	1
Irregular Lot Code:	Y
Lot Type:	5
Basement Type/Grade:	0
Assessed Land Value:	245700.00000
Assessed Total Value:	362250.00000
Exempt Total Value:	0.00000
Year Built:	1931
Year Altered 1:	0
Year Altered 2:	0
Historic District Name:	Not reported
Landmark Status:	Not reported
Built Floor Area Ratio:	0.22000000000
Maximum Allowable Residential Far:	0.00000000000
Maximum Allowable Commercial Far:	1.00000000000

RAILROAD MAINTENANCE CORP. (Continued) **S105912814**

Maximum Allowable Community Facility Far:	2.40000000000
Boro Code:	2
Borough, Tax Block and Lot:	2035130022.00000000
Condominium Number:	Not reported
Census Tract 2:	0090
X Coordinate:	1027485
Y Coordinate:	236721
Zoning Map #:	7a
Zoning Map Code:	Not reported
Sanborn Map #:	219 066
Tax Map #:	21403
E-designation Number:	Not reported
Apportionment BBL:	Not reported
Apportionment Date:	Not reported
Pluto ??? Dtm Base Map Indicator:	1
2007 Flood Insurance Rate Map Indicator:	1
2015 Preliminary Flood Insurance Rate Map Indicator:	1
Version Number:	24v1.1
Changed By DCP:	Not reported

42
NNW
1/4-1/2
0.361 mi.
1906 ft.

BLOCK 3579, LOT 1
BLOCK 3579, LOT 1
BRONX, NY 10473

NY VCP **S113922170**
N/A

Relative:
Lower

Actual:
7 ft.

VCP:

Name:	BLOCK 3579, LOT 1
Address:	BLOCK 3579, LOT 1
City,State,Zip:	BRONX, NY 10473
Program Type:	VCP
Site Code:	58877
HW Code:	V00321
Site Class:	N
SWIS:	301
Region:	2
Town:	New York City
Acres:	Not reported
Date Record Added:	11/30/2000
Date Record Updated:	07/14/2004
Updated By:	VCPTRANS
Site Description:	Site was denied entry to VCP due to lack of contamination.
Env Problem:	Not reported
Health Problem:	Not reported
Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported
Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	6
Sub Type:	ZZZ

BLOCK 3579, LOT 1 (Continued) **S113922170**

Owner Name:	Not reported
Owner Company:	Ice Cream Partners, USA, LLC
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	ZZ
Owner Country:	United States of America
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

43
NW
1/4-1/2
0.375 mi.
1982 ft.

RANDALL AVE AND ZEREGA AVE/WESTCHESTER CREEK **NY SWF/LF** **S126023660**
HAVMEYER AVE, RANDELL AVE, ZEREGA AVE, CAESAR PLACE **NY ILI** **N/A**
BRONX, NY

Relative:
Higher

Actual:
19 ft.

SWF/LF:

Name:	RANDALL AVE AND ZEREGA AVE/WESTCHESTER CREEK
Address:	HAVMEYER AVE, RANDELL AVE, ZEREGA AVE, CAESAR PLACE
City,State,Zip:	BRONX, NY
Flag:	INACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Not reported
Activity Number:	Not reported
Active:	Not reported
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	2: Fair; Perimeter unclear
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

RANDALL AVE AND ZEREGA AVE/WESTCHESTER CREEK (Continued) **S126023660**

ILI:

Name:	RANDALL AVE AND ZEREGA AVE/WESTCHESTER CREEK
Address:	HAVMEYER AVE, RANDELL AVE, ZEREGA AVE, CAESAR PLACE
City,State,Zip:	BRONX, NY
Latitude:	40.818432
Longitude:	-73.843908
Region:	2
SWID:	Not reported
NY Inactive List:	Not reported
Inactive Reg Number:	Not reported
Alternative Facility Names:	Not reported
Removed:	Not reported
Why Removed:	Not reported
Location Accuracy:	2: Fair; Perimeter unclear
Date Of Last Inspection:	19-Jul-18
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Authorization:	Not reported
Number:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
Start Date:	Not reported
Stop Date:	Not reported
Landfill Type:	Not reported

44
NNW
1/4-1/2
0.391 mi.
2063 ft.

EASTERN ECOLOGY COMPOSTING SITE WESTCHESTER CREEK **NY SWF/LF** **S126022885**
665-637 ZEREGA AVE **NY ILI** **N/A**
BRONX, NY

Relative:
Lower

Actual:
13 ft.

SWF/LF:

Name:	EASTERN ECOLOGY COMPOSTING SITE WESTCHESTER CREEK BETWEEN SEWARD AVE & RANDALL AVE
Address:	665-637 ZEREGA AVE
City,State,Zip:	BRONX, NY
Flag:	INACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported

EASTERN ECOLOGY COMPOSTING SITE WESTCHESTER CREEK BETWEEN SE (Continued) **S126022885**

Contact Phone:	Not reported
Activity Desc:	Not reported
Activity Number:	Not reported
Active:	Not reported
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	Not reported
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

ILI:

Name:	EASTERN ECOLOGY COMPOSTING SITE WESTCHESTER CREEK BETWEEN SEWARD A RANDALL AVE
Address:	665-637 ZEREGA AVE
City,State,Zip:	BRONX, NY
Latitude:	40.820539
Longitude:	-73.840808
Region:	2
SWID:	Not reported
NY Inactive List:	Not reported
Inactive Reg Number:	Not reported
Alternative Facility Names:	Not reported
Removed:	Not reported
Why Removed:	Not reported
Location Accuracy:	Not reported
Date Of Last Inspection:	19-Jul-18
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Authorization:	Not reported
Number:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
Start Date:	Not reported
Stop Date:	Not reported
Landfill Type:	Not reported

45 North 1/4-1/2 0.408 mi. 2155 ft.

EARTH BANK COMPANY INC.
748 BRUSH AVENUE
BRONX, NY 10465

NY SWF/LF **S105841684**
NY NYC LAND USE **N/A**

Relative: Higher

Actual: 16 ft.

SWF/LF:

Name:	EARTH BANK COMPANY INC.
Address:	748 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Flag:	INACTIVE
Region Code:	2
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	RALPH DIDONATO
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[03T16]
Active:	No
East Coordinate:	598005
North Coordinate:	4519723
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	- 1-
Authorization Date:	Not reported
Expiration Date:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Laste Date:	Not reported

NYC LAND USE:

Name:	Not reported
Address:	748 BRUSH AVENUE
City,State,Zip:	BRONX, NY 10465
Latitude:	40.8221437
Longitude:	-73.8375092
Type Of Ownership Code:	Not reported
Owner Name:	VALAD, JAVAD
Borough:	BX
Tax Block:	5559
Tax Lot:	83
Community District:	210
Census Tract 2020:	2009000
Census Block 2020:	20090002017
Census Tract 2010:	90
Census Block 2010:	2012
School District:	08
City Council District:	13

EARTH BANK COMPANY INC. (Continued) **S105841684**

Fire Company:	E072
Police Precinct:	45
Health Center District:	26
Health Area:	3100
Sanitation District Boro:	2
Sanitation District Number:	10
Sanitation Subsection:	3D
Zoning District 1:	R4A: Residential Districts
Zoning District 2:	Not reported
Zoning District 3:	Not reported
Zoning District 4:	Not reported
Commercial Overlay 1:	Not reported
Commercial Overlay 2:	Not reported
Special Purpose District 1:	Not reported
Special Purpose District 2:	Not reported
Special Purpose District 3:	Not reported
Limited Height District:	Not reported
Spill Boundary Indicator:	N
Building Class:	B1: TWO FAMILY DWELLINGS - Brick
Land Use Category:	One & Two Family Buildings
Number Of Easements:	0
Lot Area:	2692
Total Building Floor Area:	2300
Commercial Floor Area:	0
Residential Floor Area:	2300
Office Floor Area:	0
Retail Floor Area:	0
Garage Floor Area:	0
Storage Floor Area:	0
Factory Floor Area:	0
Other Floor Area:	0
Total Building Floor Area Source Code:	2
Number Of Buildings:	1
Number Of Floors:	2.0000000
Residential Units:	2
Total Units:	2
Lot Frontage:	25.0000000
Lot Depth:	108.6300000
Building Frontage:	25.0000000
Building Depth:	46.0000000
Extension Code:	G
Proximity Code:	3
Irregular Lot Code:	Y
Lot Type:	5
Basement Type/Grade:	2
Assessed Land Value:	8340.00000
Assessed Total Value:	55560.00000
Exempt Total Value:	0.00000
Year Built:	2005
Year Altered 1:	0
Year Altered 2:	0
Historic District Name:	Not reported
Landmark Status:	Not reported
Built Floor Area Ratio:	0.85000000000
Maximum Allowable Residential Far:	0.75000000000
Maximum Allowable Commercial Far:	0.00000000000
Maximum Allowable Community Facility Far:	2.00000000000

EARTH BANK COMPANY INC. (Continued) **S105841684**

Boro Code:	2
Borough, Tax Block and Lot:	2055590083.00000000
Condominium Number:	Not reported
Census Tract 2:	0090
X Coordinate:	1029223
Y Coordinate:	238848
Zoning Map #:	7a
Zoning Map Code:	Not reported
Sanborn Map #:	221 039
Tax Map #:	21807
E-designation Number:	Not reported
Apportionment BBL:	2055590081.00000000
Apportionment Date:	02/26/2007
Pluto ??? Dtm Base Map Indicator:	1
2007 Flood Insurance Rate Map Indicator:	Not reported
2015 Preliminary Flood Insurance Rate Map Indicator:	Not reported
Version Number:	24v1.1
Changed By DCP:	Not reported

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46 **AAA THROGGS NECK** **FUDS** **1024899209**
East **N/A**
1/2-1 **NEW YORK, NY**
0.806 mi.
4255 ft.

Relative:
Higher

Actual:
17 ft.

FUDS:

EPA Region:	02
Installation ID:	NY29799F111000
Congressional District Number:	14
Name:	AAA THROGGS NECK
FUDS Number:	C02NY0568
City:	NEW YORK
State:	NY
County:	BRONX
Object ID:	5630
USACE Division:	NAD
USACE District:	New England District (NAE)
Status:	Properties without projects
Current Owner:	PRIV: PRIVATE PRIVATE RESIDENCES
EMS Map Link:	https://fudsportal.usace.army.mil/ems/inventory/map?id=56674
Eligibility:	Eligible
Has Projects:	No
NPL Status:	Not reported
Project Required:	No
Feature Description:	The site containing 4.07 acres lease and permit was obtained by US Government in early 1952 for an AAA location. Between August 1952 and February 1954 all the leases and permits ware cancelled and the properties reverted back to the original owners. Currently the ownership of the site is subdivided between 24 owners of one and two family housing units.
Latitude:	40.81416667
Longitude:	-73.82

Count: 5 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BRONX	S113922040	BLOCK 5541, LOT 225 (BRUSH AVENUE	BRUSH AVENUE	10465	NY VCP
BRONX	S126022979	FORT SCHUYLER PARK AREA	LONG ISLAND SOUND, PENNYFIELD		NY SWF/LF, NY ILI
BRONX	S126023254	LB NORTHEAST	ZEREGA AVENUE		NY SWF/LF, NY ILI
BRONX	S105684653	CE - ZEREGA AVE. STATION	ZEREGA AVE. BETWEEN BLACKROCK	10462	NY VCP, NY MGP
BRONX	S121933888	CE - ZEREGA AVE. STATION	ZEREGA AVE. BETWEEN BLACKROCK	10462	NY SHWS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/25/2024
Date Data Arrived at EDR: 03/26/2024
Date Made Active in Reports: 06/24/2024
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/25/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/22/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/22/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/14/2024
Date Data Arrived at EDR: 02/16/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 48

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/17/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2024
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/13/2024
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/13/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/17/2024
Number of Days to Update: 90

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/17/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

SHWS: Inactive Hazardous Waste Disposal Sites in New York State
Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Annually

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: Facility Register
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/25/2024
Date Data Arrived at EDR: 03/27/2024
Date Made Active in Reports: 06/18/2024
Number of Days to Update: 83

Source: Department of Environmental Conservation
Telephone: 518-402-8678
Last EDR Contact: 06/21/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/04/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

LTANKS: Spills Information Database
Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 05/06/2024
Date Data Arrived at EDR: 05/06/2024
Date Made Active in Reports: 05/09/2024
Number of Days to Update: 3

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 05/06/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

HIST LTANKS: Listing of Leaking Storage Tanks

A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 03/15/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/17/2024
Number of Days to Update: 90

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

UST: Petroleum Bulk Storage (PBS) Database

Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 03/19/2024
Date Data Arrived at EDR: 03/20/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 06/18/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: No Update Planned

CBS UST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 10/24/2005
Next Scheduled EDR Contact: 01/23/2006
Data Release Frequency: No Update Planned

MOSF UST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF: Major Oil Storage Facility Site Listing

These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 03/19/2024
Date Data Arrived at EDR: 03/20/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 06/18/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

CBS: Chemical Bulk Storage Site Listing
These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 03/19/2024
Date Data Arrived at EDR: 03/20/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 06/18/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

AST: Petroleum Bulk Storage
Registered Aboveground Storage Tanks.

Date of Government Version: 03/19/2024
Date Data Arrived at EDR: 03/20/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 06/18/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: No Update Planned

CBS AST: Chemical Bulk Storage Database
Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF AST: Major Oil Storage Facilities Database
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/17/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

TANKS: Storage Tank Faciliy Listing

This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

Date of Government Version: 03/19/2024
Date Data Arrived at EDR: 03/20/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 84

Source: Department of Environmental Conservation
Telephone: 518-402-9543
Last EDR Contact: 06/18/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

State and tribal institutional control / engineering control registries

ENV RES DECL: Environmental Restrictive Declarations

The Environmental Restrictive Declarations (ERD) listed were recorded in connection with a zoning action against the noted Tax Blocks and Tax Lots, or portion thereof, and are available in the property records on file at the Office of the City Register for Bronx, Kings, New York and Queens counties or at the Richmond County Clerk's office. They contain environmental requirements with respect to hazardous materials, air quality and/or noise in accordance with Section 11-15 of this Resolution.

Date of Government Version: 03/11/2024
Date Data Arrived at EDR: 03/14/2024
Date Made Active in Reports: 06/05/2024
Number of Days to Update: 83

Source: New York City Department of City Planning
Telephone: 212-720-3300
Last EDR Contact: 06/13/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Varies

RES DECL: Restrictive Declarations Listing

A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/07/2024
Date Made Active in Reports: 03/11/2024
Number of Days to Update: 4

Source: NYC Department of City Planning
Telephone: 212-720-3401
Last EDR Contact: 06/13/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Varies

ENG CONTROLS: Registry of Engineering Controls

Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Quarterly

INST CONTROL: Registry of Institutional Controls

Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Quarterly

Lists of state and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Agreements

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9711
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Semi-Annually

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/14/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Varies

VCP NYC: Voluntary Cleanup Program Listing NYC
New York City voluntary cleanup program sites.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/06/2024
Date Made Active in Reports: 05/30/2024
Number of Days to Update: 85

Source: New York City Office of Environmental Protection
Telephone: 212-788-8841
Last EDR Contact: 06/05/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Brownfields Site List
A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9764
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Semi-Annually

ERP: Environmental Restoration Program Listing
In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a $200 million Environmental Restoration or Brownfields Fund as part of the $1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/11/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/12/2024	Telephone: 202-566-2777
Date Made Active in Reports: 05/10/2024	Last EDR Contact: 06/11/2024
Number of Days to Update: 59	Next Scheduled EDR Contact: 09/23/2024
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Registered Recycling Facility List

A listing of recycling facilities.

Date of Government Version: 03/25/2024	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 03/27/2024	Telephone: 518-402-8678
Date Made Active in Reports: 06/18/2024	Last EDR Contact: 06/21/2024
Number of Days to Update: 83	Next Scheduled EDR Contact: 10/07/2024
	Data Release Frequency: Quarterly

SWTIRE: Registered Waste Tire Storage & Facility List

A listing of facilities registered to accept waste tires.

Date of Government Version: 02/27/2018	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 04/06/2018	Telephone: 518-402-8694
Date Made Active in Reports: 06/08/2018	Last EDR Contact: 05/31/2024
Number of Days to Update: 63	Next Scheduled EDR Contact: 09/16/2024
	Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 07/22/2024
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/04/2024
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: No Update Planned

DEL SHWS: Delisted Registry Sites

A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

HIST UST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

HIST AST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Spill Liens Information
Lien information from the Oil Spill Fund.

Date of Government Version: 04/19/2024
Date Data Arrived at EDR: 04/19/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 68

Source: Office of the State Comptroller
Telephone: 518-474-9034
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Quarterly

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/14/2024
Date Data Arrived at EDR: 06/17/2024
Date Made Active in Reports: 06/24/2024
Number of Days to Update: 7

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/17/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

SPILLS: Spills Information Database
Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 05/06/2024
Date Data Arrived at EDR: 05/06/2024
Date Made Active in Reports: 05/09/2024
Number of Days to Update: 3

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 05/06/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

HIST SPILLS: SPILLS Database
This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/14/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/12/2013
Number of Days to Update: 40

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 11/02/2010
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/30/2024
Date Data Arrived at EDR: 02/13/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 51

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/14/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/18/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/17/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA Watch List

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 07/25/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/13/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 11/13/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 86

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/16/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/11/2024
Date Data Arrived at EDR: 07/11/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 1

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/01/2024
Date Data Arrived at EDR: 04/17/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2023
Date Data Arrived at EDR: 04/04/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 66

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 01/02/2024
Date Data Arrived at EDR: 01/16/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 57

Source: Nuclear Regulatory Commission
Telephone: 301-415-0717
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 11/27/2023
Date Made Active in Reports: 02/22/2024
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 06/21/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2024
Date Data Arrived at EDR: 04/19/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 68

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/16/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/24/2024
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 04/01/2024
Date Data Arrived at EDR: 04/04/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 99

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Quarterly

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 01/07/2022
Date Data Arrived at EDR: 02/24/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 82

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/22/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing
Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/23/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines
An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/18/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 79

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/13/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 98

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/22/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/09/2024
Date Data Arrived at EDR: 02/27/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 87

Source: EPA
Telephone: (212) 637-3000
Last EDR Contact: 05/29/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 09/06/2023
Date Data Arrived at EDR: 09/13/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 89

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/08/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/17/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 06/23/2024
Date Data Arrived at EDR: 06/28/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/28/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/12/2024
Date Data Arrived at EDR: 02/13/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 51

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/14/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS PROJECT: NORTHEASTERN UNIVERSITY PFAS PROJECT

The PFAS Contamination Site Tracker records qualitative and quantitative data from each site in a chart, specifically examining discovery, contamination levels, government response, litigation, health impacts, media coverage, and community characteristics. All data presented in the chart were extracted from government websites, such as state health departments or the Environmental Protection Agency, and news articles.

Date of Government Version: 05/19/2023
Date Data Arrived at EDR: 04/05/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 62

Source: Social Science Environmental Health Research Institute
Telephone: N/A
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS ECHO FIRE TRAIN: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS PT 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/10/2017
Number of Days to Update: 63

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/27/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: No Update Planned

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 06/27/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data
The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 04/14/2024
Date Data Arrived at EDR: 04/16/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-564-4700
Last EDR Contact: 07/16/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

UST FINDER: UST Finder Database
EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 106

Source: Environmental Protection Agency
Telephone: 202-564-0394
Last EDR Contact: 05/08/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

UST FINDER RELEASE: UST Finder Releases Database
US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/31/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 79

Source: Environmental Protecton Agency
Telephone: 202-564-0394
Last EDR Contact: 05/08/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Semi-Annually

E MANIFEST: Hazardous Waste Electronic Manifest System
EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

Date of Government Version: 07/24/2023
Date Data Arrived at EDR: 04/18/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 833-501-6826
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Varies

PFAS 3: PFAS Environmental Site Remediation List
A list of records included in the Environmental Remediation database whose material is listed as Perfluorooctanoic Acid or Perfluorooctane Sulfonic Acid.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 04/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-9759
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

PFAS 2: New York State Inactive Landfill Initiative

A list of landfills that were investigated and the analytical results for PFOA and PFOS for those landfills. These data represent the landfills from the ILI database that were investigated.

Date of Government Version: 12/12/2022
Date Data Arrived at EDR: 08/10/2023
Date Made Active in Reports: 10/25/2023
Number of Days to Update: 76

Source: Department of Environmental Conservation
Telephone: 518-402-9662
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

DEC surveyed select businesses, fire departments, fire training centers, bulk storage facilities, airports, and Department of Defense (DoD) facilities. The responses to the survey have helped to determine if these entities used or stored materials containing PFOA/PFOS including AFFF and dispersants used in Teflon coating operations. The results of this survey will be updated periodically as additional responses are received..

Date of Government Version: 01/16/2019
Date Data Arrived at EDR: 05/08/2019
Date Made Active in Reports: 06/24/2019
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 518-402-9020
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

AIRS: Air Emissions Data

Point source emissions inventory data.

Date of Government Version: 01/12/2024
Date Data Arrived at EDR: 01/24/2024
Date Made Active in Reports: 04/11/2024
Number of Days to Update: 78

Source: Department of Environmental Conservation
Telephone: 518-402-8452
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Annually

COAL ASH: Coal Ash Disposal Site Listing

A listing of coal ash disposal site locations.

Date of Government Version: 03/26/2024
Date Data Arrived at EDR: 03/27/2024
Date Made Active in Reports: 06/21/2024
Number of Days to Update: 86

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 06/21/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

DRYCLEANERS: Registered Drycleaners

A listing of all registered drycleaning facilities.

Date of Government Version: 03/06/2024
Date Data Arrived at EDR: 03/08/2024
Date Made Active in Reports: 05/29/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8403
Last EDR Contact: 05/31/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Annually

E DESIGNATION: E DESIGNATION SITE LISTING

The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 03/05/2024
Date Data Arrived at EDR: 03/13/2024
Date Made Active in Reports: 06/05/2024
Number of Days to Update: 84

Source: New York City Department of City Planning
Telephone: 718-595-6658
Last EDR Contact: 06/12/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Semi-Annually

FIN ASSURANCE 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 03/27/2024
Date Data Arrived at EDR: 03/28/2024
Date Made Active in Reports: 06/18/2024
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 06/21/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

FIN ASSURANCE 2: Financial Assurance Information Listing

A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 03/07/2024
Date Data Arrived at EDR: 03/14/2024
Date Made Active in Reports: 03/20/2024
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-8712
Last EDR Contact: 05/31/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

HSWDS: Hazardous Substance Waste Disposal Site Inventory

The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 01/01/2003
Date Data Arrived at EDR: 10/20/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9564
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: No Update Planned

NYC LEAD: Lead-based Paint Testing Results

The results of the inspections for all classrooms serving students under six in applicable buildings. Identifies all classrooms, whether there was observation of peeling paint, and if there was, standard response protocol was followed.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 01/31/2024
Date Made Active in Reports: 04/22/2024
Number of Days to Update: 82

Source: New York City Department of Education
Telephone: 212-374-5141
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

NYC LEAD 2: Recent Lead Paint Violations

Pursuant to New York City?s Housing Maintenance Code, the Department of Housing Preservation and Development (HPD) issues violations against conditions in rental dwelling units that have been verified to violate the New York City Housing Maintenance Code (HMC) or the New York State Multiple Dwelling Law (MDL). Violations are issued when an inspection verifies that a violation of the HMC or MDL exists. It is closed when the violation is corrected, as observed/verified by HPD or as certified by the landlord.

Date of Government Version: 04/29/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 07/25/2024
Number of Days to Update: 85

Source: New York City Department of Housing Preservation & Development
Telephone: 212-863-8200
Last EDR Contact: 05/01/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/25/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

SPDES: State Pollutant Discharge Elimination System

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 01/12/2024
Date Data Arrived at EDR: 02/13/2024
Date Made Active in Reports: 05/02/2024
Number of Days to Update: 79

Source: Department of Environmental Conservation
Telephone: 518-402-8233
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: No Update Planned

VAPOR REOPENED: Vapor Intrusion Legacy Site List

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 02/08/2022
Date Made Active in Reports: 05/06/2022
Number of Days to Update: 87

Source: Department of Environmenal Conservation
Telephone: 518-402-9814
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

UIC: Underground Injection Control Wells

A listing of enhanced oil recovery underground injection wells.

Date of Government Version: 02/26/2024
Date Data Arrived at EDR: 02/28/2024
Date Made Active in Reports: 05/21/2024
Number of Days to Update: 83

Source: Department of Environmental Conservation
Telephone: 518-402-8056
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Quarterly

COOLING TOWERS: Registered Cooling Towers

This data includes the location of cooling towers registered with New York State. The data is self-reported by owners/property managers of cooling towers in service in New York State. In August 2015, the New York State Department of Health released emergency regulations requiring the owners of cooling towers to register them with New York State.

Date of Government Version: 04/02/2024
Date Data Arrived at EDR: 04/10/2024
Date Made Active in Reports: 07/09/2024
Number of Days to Update: 90

Source: Department of Health
Telephone: 518-402-7650
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Varies

ILI: New York State Inactive Landfill Initiative
A solid waste site priority list of mitigation and remedial activities to address sites causing, or substantially contributing to, impairments of drinking water quality. Inactive solid waste disposal sites, primarily landfills, and their potential impact on New York?s drinking water resources from site-related contaminants, with a focus on emerging contaminants.

Date of Government Version: 01/30/2024
Date Data Arrived at EDR: 02/02/2024
Date Made Active in Reports: 04/19/2024
Number of Days to Update: 77

Source: Department of Environmental Conservation
Telephone: 518-402-8671
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

NYC LAND USE: New York City Land Use Information
Land use colors

Date of Government Version: 05/03/2024
Date Data Arrived at EDR: 06/12/2024
Date Made Active in Reports: 06/28/2024
Number of Days to Update: 16

Source: New York City Department of City Planning
Telephone: 212-720-3300
Last EDR Contact: 06/12/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Varies

MGP: Manufactured Gas Plants Listing
From the late 1800's to the mid 1900's, hundreds of manufactured gas plants across New York State supplied homes and industry with fuel for heating, cooking, and lighting. Today, the New York State DEC is overseeing the investigation and cleanup of contamination left behind from these plants.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 80

Source: Department of Environmental Conservation
Telephone: 518-402-9662
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

NYC OER: OER Cleanup Sites Listing
Properties remediated under OER's oversight, both in the E-Designation program and the NYC Voluntary Cleanup Program. Includes sites completed and in progress.

Date of Government Version: 03/04/2024
Date Data Arrived at EDR: 03/06/2024
Date Made Active in Reports: 05/29/2024
Number of Days to Update: 84

Source: Office of Environmental Remediation
Telephone: 212-788-8841
Last EDR Contact: 06/05/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COUNTY RECORDS

CORTLAND COUNTY:

AST - CORTLAND: Cortland County Storage Tank Listing
A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/16/2019
Number of Days to Update: 57

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

UST - CORTLAND: Cortland County Storage Tank Listing
A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/16/2019
Number of Days to Update: 57

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

NASSAU COUNTY:

AST - NASSAU: Registered Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 11/27/2023
Date Data Arrived at EDR: 11/28/2023
Date Made Active in Reports: 02/06/2024
Number of Days to Update: 70

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: No Update Planned

AST NCFM: Storage Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

TANKS NASSAU: Registered Tank Database in Nassau County
A listing of facilities in Nassau County with storage tanks.

Date of Government Version: 11/27/2023
Date Data Arrived at EDR: 11/28/2023
Date Made Active in Reports: 02/06/2024
Number of Days to Update: 70

Source: Nassau County Department of Health
Telephone: 516-227-9691
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: No Update Planned

UST - NASSAU: Registered Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 11/27/2023
Date Data Arrived at EDR: 11/28/2023
Date Made Active in Reports: 02/06/2024
Number of Days to Update: 70

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: No Update Planned

UST NCFM: Storage Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

ROCKLAND COUNTY:

AST - ROCKLAND: Petroleum Bulk Storage Database
A listing of aboveground storage tank sites located in Rockland County. Rockland County?s Petroleum Bulk Storage (PBS) program is no longer in service. All related operations/duties are now wholly overseen by the New York State Dept. of Environmental Conservation (NYSDEC).

Date of Government Version: 02/02/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 189

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: No Update Planned

UST - ROCKLAND: Petroleum Bulk Storage Database
A listing of underground storage tank sites located in Rockland County. Rockland County?s Petroleum Bulk Storage (PBS) program is no longer in service. All related operations/duties are now wholly overseen by the New York State Dept. of Environmental Conservation (NYSDEC).

Date of Government Version: 02/02/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 189

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: No Update Planned

SUFFOLK COUNTY:

AST - SUFFOLK: Storage Tank Database
A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 06/28/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 02/07/2019
Number of Days to Update: 63

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: No Update Planned

TANKS SUFFOLK: Storage Tank Database
This county is not included in the state?s database. These are facilities that have no tank information in the storage tank database.

Date of Government Version: 06/28/2018
Date Data Arrived at EDR: 02/05/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 31

Source: Department of Health Services
Telephone: 631-854-2516
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

UST - SUFFOLK: Storage Tank Database
A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 06/28/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 02/07/2019
Number of Days to Update: 63

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: No Update Planned

WESTCHESTER COUNTY:

AST - WESTCHESTER: Listing of Storage Tanks
A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 01/29/2024
Date Data Arrived at EDR: 02/08/2024
Date Made Active in Reports: 03/06/2024
Number of Days to Update: 27

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Semi-Annually

UST - WESTCHESTER: Listing of Storage Tanks
A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 01/29/2024
Date Data Arrived at EDR: 02/08/2024
Date Made Active in Reports: 03/06/2024
Number of Days to Update: 27

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Semi-Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/06/2024
Date Made Active in Reports: 04/25/2024
Number of Days to Update: 79

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/03/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/13/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 10/28/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/09/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 07/03/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Day Care Providers
Source: Department of Health
Telephone: 212-676-2444

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

PROPOSED BALLYS CASINO - RING ROAD
450 HUTCHINSON RIVER PARKWAY
BRONX, NY 10465

TARGET PROPERTY COORDINATES

Latitude (North):	40.813693 - 40˚ 48’ 49.29’’
Longitude (West):	73.835803 - 73˚ 50’ 8.89’’
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	598189.6
UTM Y (Meters):	4518516.0
Elevation:	16 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	14115946 FLUSHING, NY
Version Date:	2019

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES

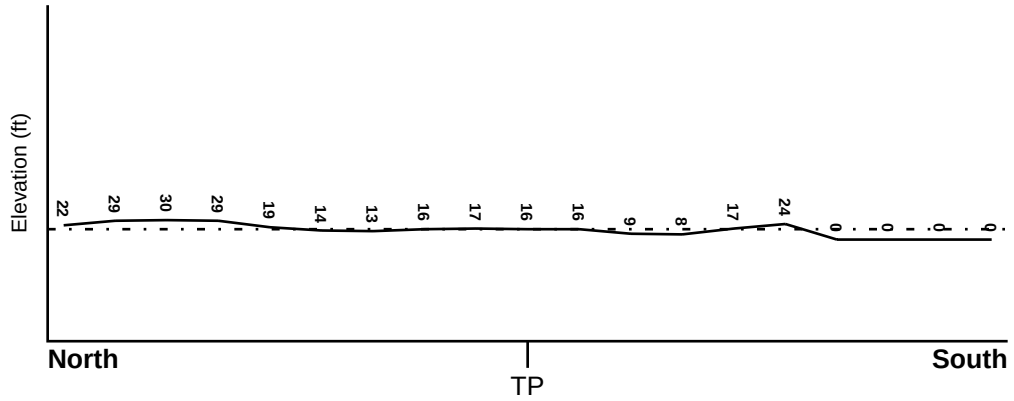

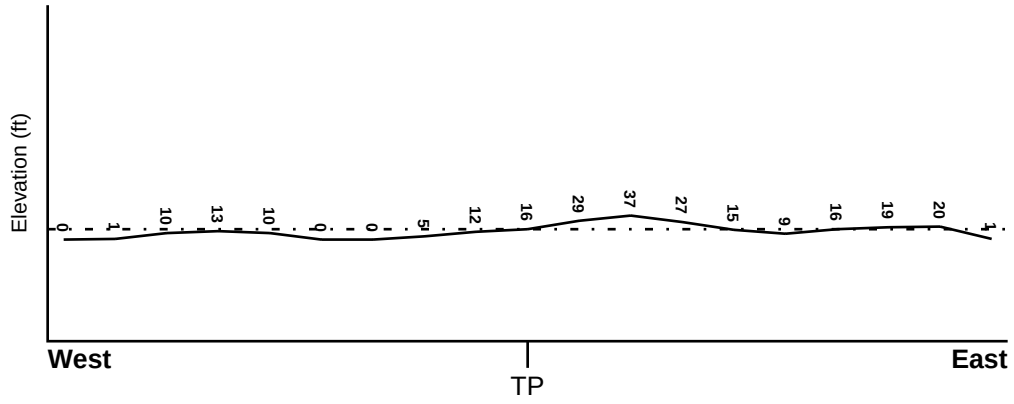

Target Property Elevation: 16 ft.

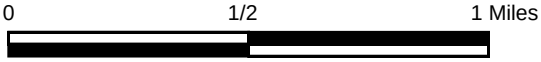

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
3604970104F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
3604970103F	FEMA FIRM Flood data
3604970111F	FEMA FIRM Flood data
3604970112F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
FLUSHING	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Ordovician
Series:	Middle Ordovician (Mohawkian)
Code:	O2 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	URBAN LAND
Soil Surface Texture:	variable
Hydrologic Group:	Not reported
Soil Drainage Class:	Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 10 inches
Depth to Bedrock Max:	> 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: fine sandy loam

Surficial Soil Types: fine sandy loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: unweathered bedrock
gravelly - fine sandy loam
stratified
fine sandy loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000833436	1/4 - 1/2 Mile SSE
2	USGS40000833386	1/4 - 1/2 Mile SSE
3	USGS40000833327	1/2 - 1 Mile SSE
4	USGS40000833595	1/2 - 1 Mile East
5	USGS40000833850	1/2 - 1 Mile NNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 7720624.2s

County Boundary
Major Roads
Contour Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data
Oil, gas or related wells

N

SITE NAME:	Proposed Ballys Casino - Ring Road	CLIENT:	Langan Engineering, Inc.
ADDRESS:	450 Hutchinson River Parkway Bronx NY 10465	CONTACT:	Kaitlyn Gioia
		INQUIRY #:	7720624.2s
LAT/LONG:	40.813693 / 73.835803	DATE:	July 29, 2024 5:00 pm

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Map ID Direction Distance Elevation	Database	EDR ID Number
1 **SSE** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000833436**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	B 39. 1		
Type:	Well: Test hole not completed as a well		
Description:	Not Reported	HUC:	02030102
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	92	Well Hole Depth Units:	ft

2 **SSE** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000833386**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	B 1. 1	Type:	Well
Description:	Not Reported	HUC:	02030102
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

3 **SSE** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000833327**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	B 2. 1	Type:	Well
Description:	Not Reported	HUC:	02030102
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

4 **East** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000833595**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	B 3. 1	Type:	Well
Description:	Not Reported	HUC:	02030102

Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

---

5
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000833850**

Organization ID:	USGS-NY	Organization Name:	USGS New York Water Science Center
Monitor Location:	B 9	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	140	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for BRONX County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for BRONX COUNTY, NY

Number of sites tested: 31

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.670 pCi/L	96%	4%	0%
Basement	1.110 pCi/L	42%	58%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

New York Public Water Wells
Source: New York Department of Health
Telephone: 518-458-6731

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Source: Department of Environmental Conservation
Telephone: 518-402-8072
These files contain records, in the database, of wells that have been drilled.

RADON

State Database: NY Radon
Source: Department of Health
Telephone: 518-402-7556
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Appendix F Historical Resources

Proposed Ballys Casino - Ring Road

450 Hutchinson River Parkway

Bronx, NY 10465

Inquiry Number: 7720624.3

July 31, 2024

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

07/31/24

Site Name:	Client Name:
Proposed Ballys Casino - Ring	Langan Engineering, Inc.
450 Hutchinson River Parkway	360 W. 31st Street
Bronx, NY 10465	New York, NY 10001
EDR Inquiry # 7720624.3	Contact: Kaitlyn Gioia

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Langan Engineering, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # F7D1-4C79-AF79

PO # 170773001

Project Prpsd Bally s Casino - Ring Rd

Maps Provided:

2007	1996	1981	1898
2006	1995	1978	
2005	1993	1977	
2004	1992	1967	
2003	1991	1950	
2002	1988	1930	
2001	1986	1919	
1998	1983	1908	

Sanborn® Library search results

Certification #: F7D1-4C79-AF79

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2007 Source Sheets

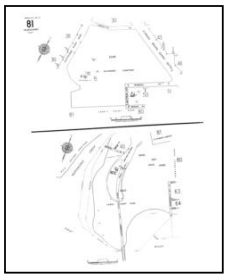

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2007

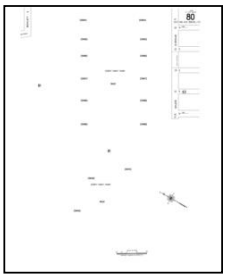

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2007

2006 Source Sheets

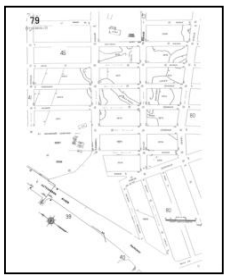

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2006

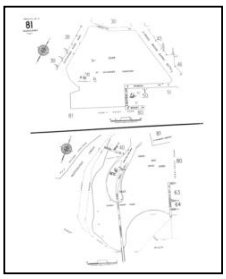

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2006

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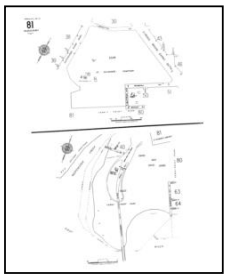

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2005

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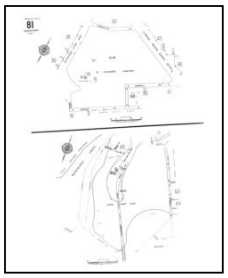

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2004

Sanborn Sheet Key

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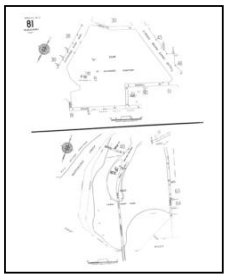

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2003

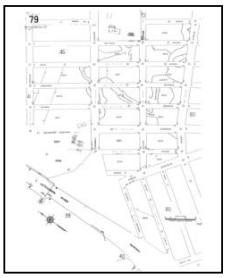

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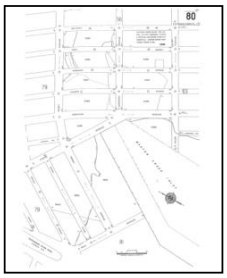

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2003

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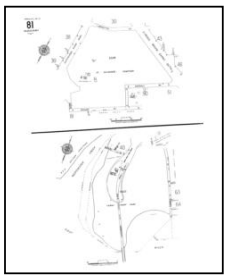

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2002

2001 Source Sheets

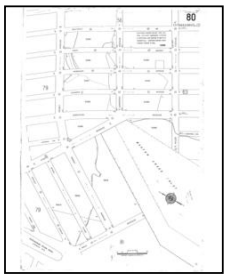

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2001

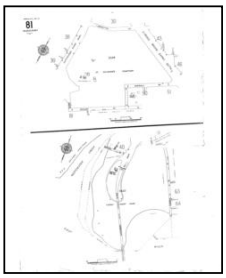

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2001

1998 Source Sheets

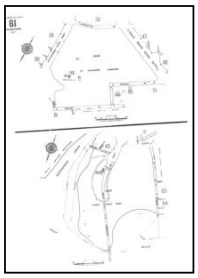

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1998

Sanborn Sheet Key

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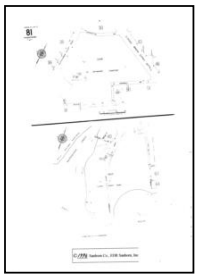

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1996

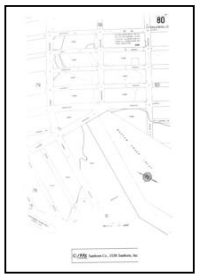

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1996

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1996

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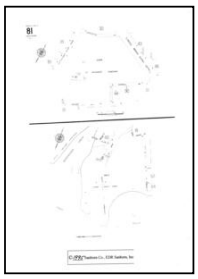

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1993 Source Sheets

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1993

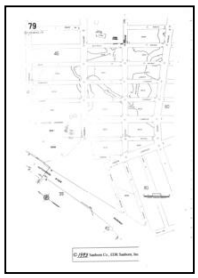

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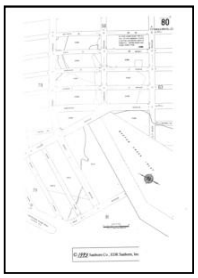

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1993

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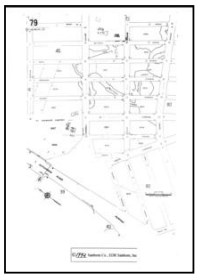

Volume 21, Sheet 79
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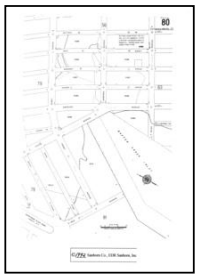

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1992

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1992

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

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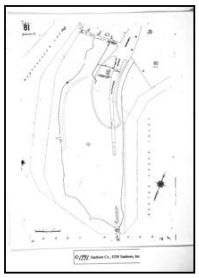

Volume 21, Sheet 81
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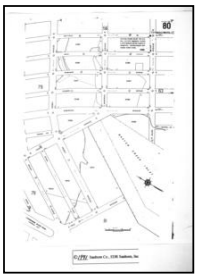

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1988 Source Sheets

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1988

1986 Source Sheets

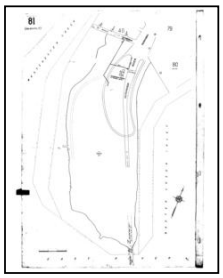

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1986

1983 Source Sheets

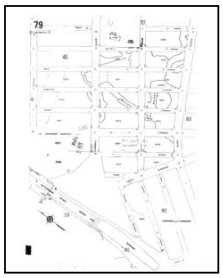

Volume 21, Sheet 79
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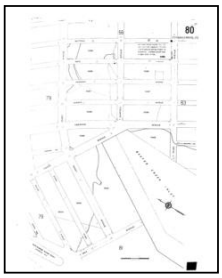

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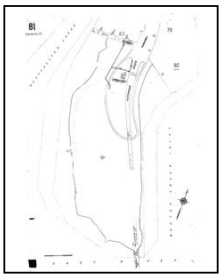

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1983

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1981 Source Sheets

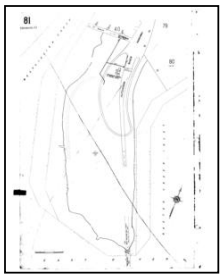

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1981

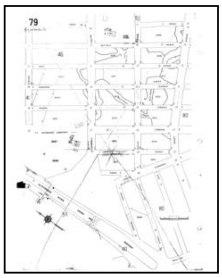

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1981

1978 Source Sheets

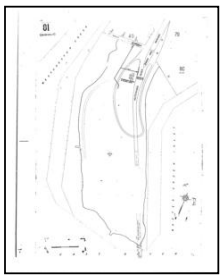

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1978

1977 Source Sheets

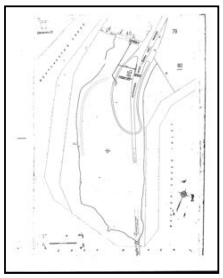

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1977

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1977

1967 Source Sheets

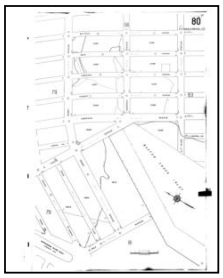

Volume 21, Sheet 80
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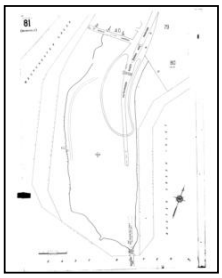

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Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

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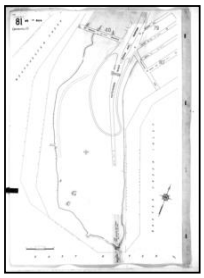

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1950

1930 Source Sheets

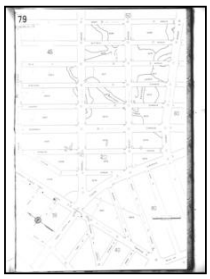

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1930

1919 Source Sheets

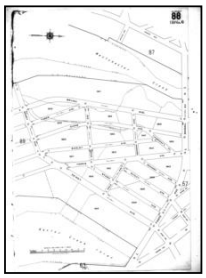

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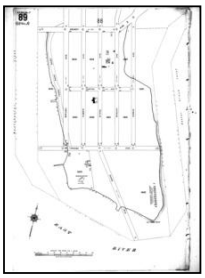

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1908 Source Sheets

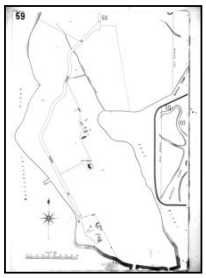

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1908

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1898 Source Sheets

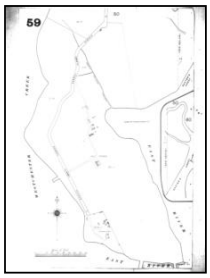

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1898

Certified Sanborn® Map

2007

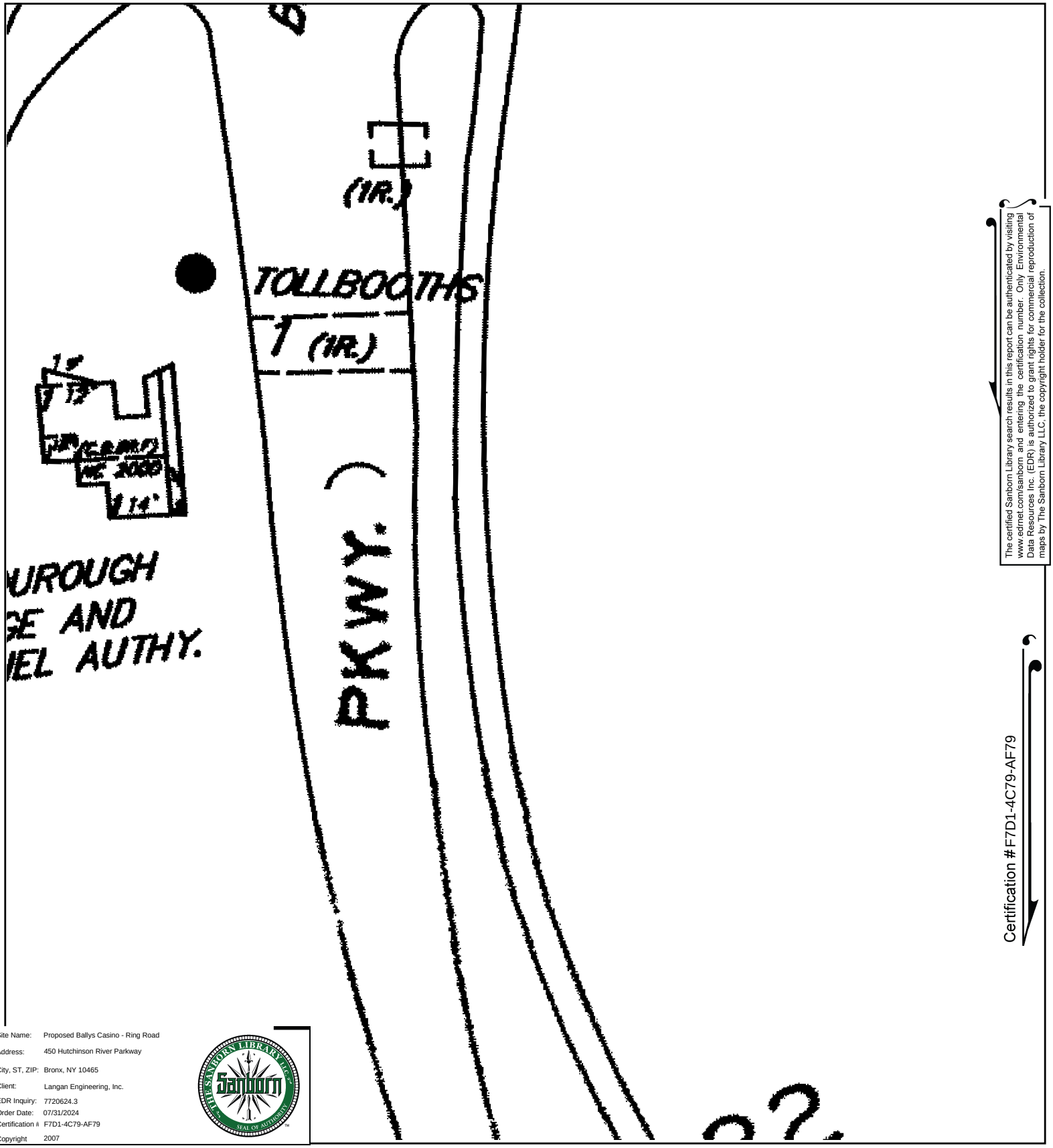

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Certification #F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	2007

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Outlined areas indicate map sheets within the collection.

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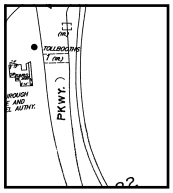

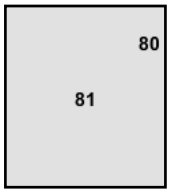

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N

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2006

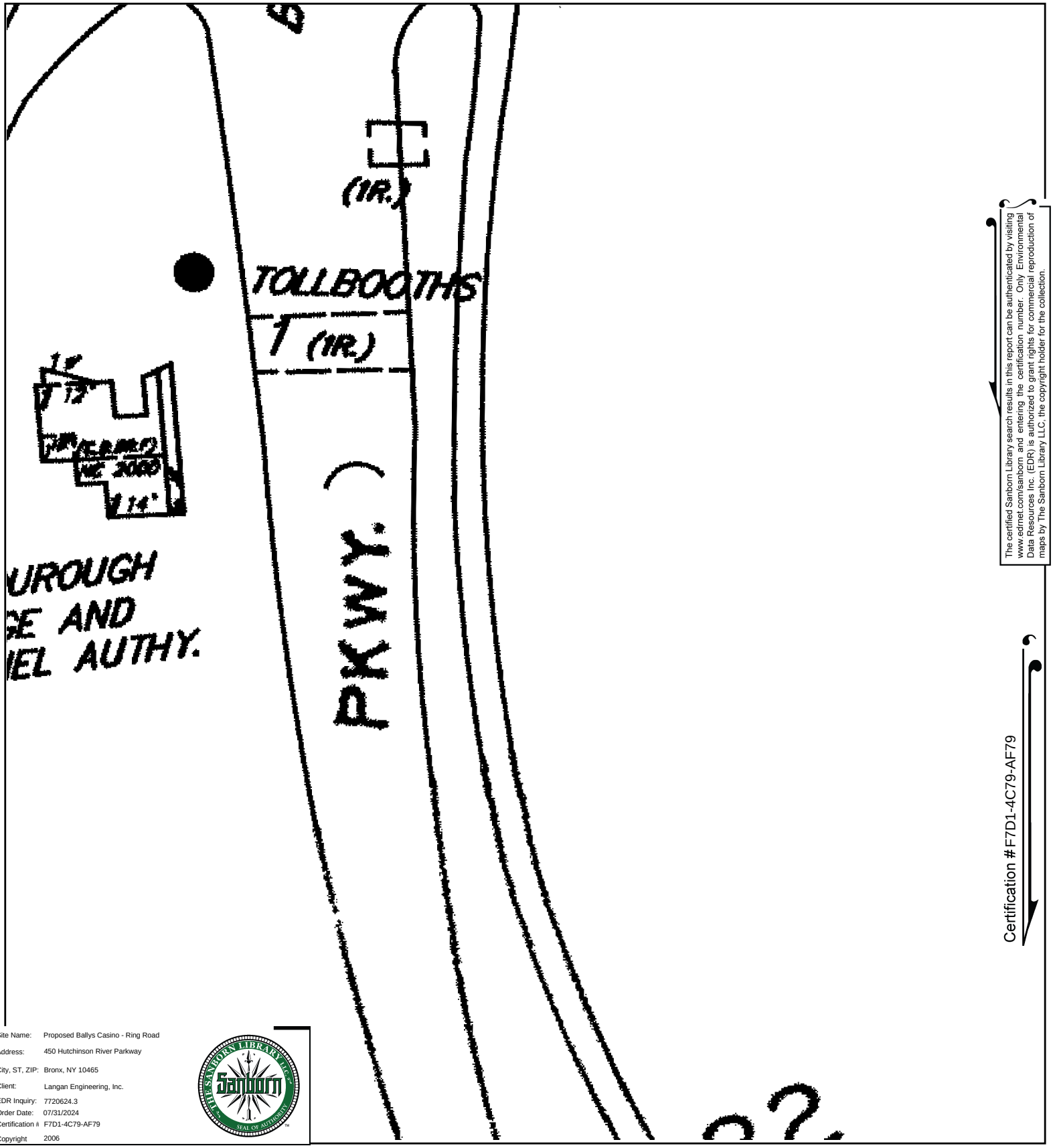

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Copyright	2006

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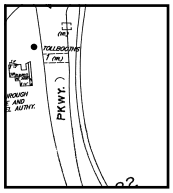

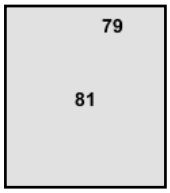

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N

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2005

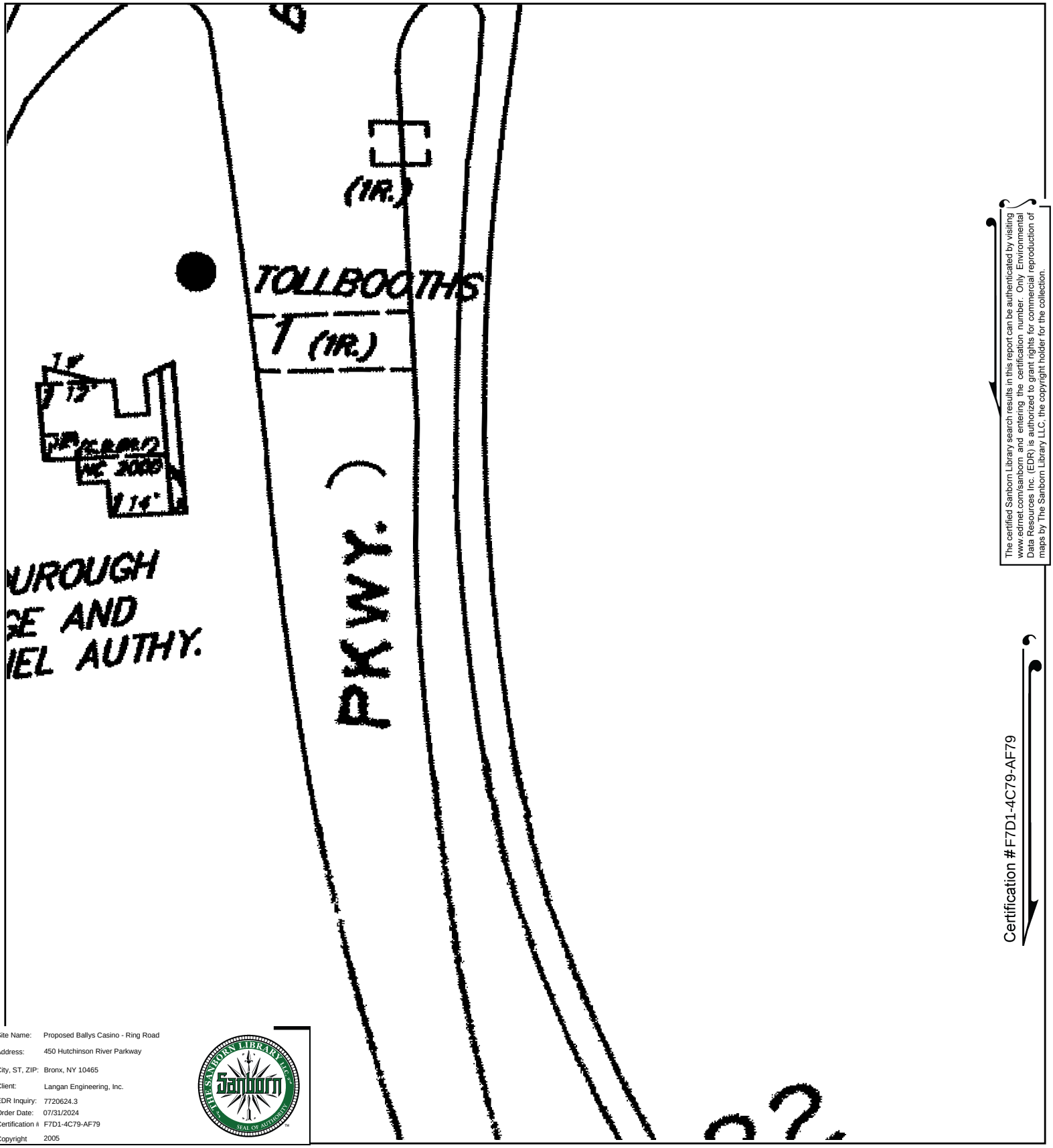

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	2005

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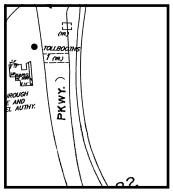

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2004

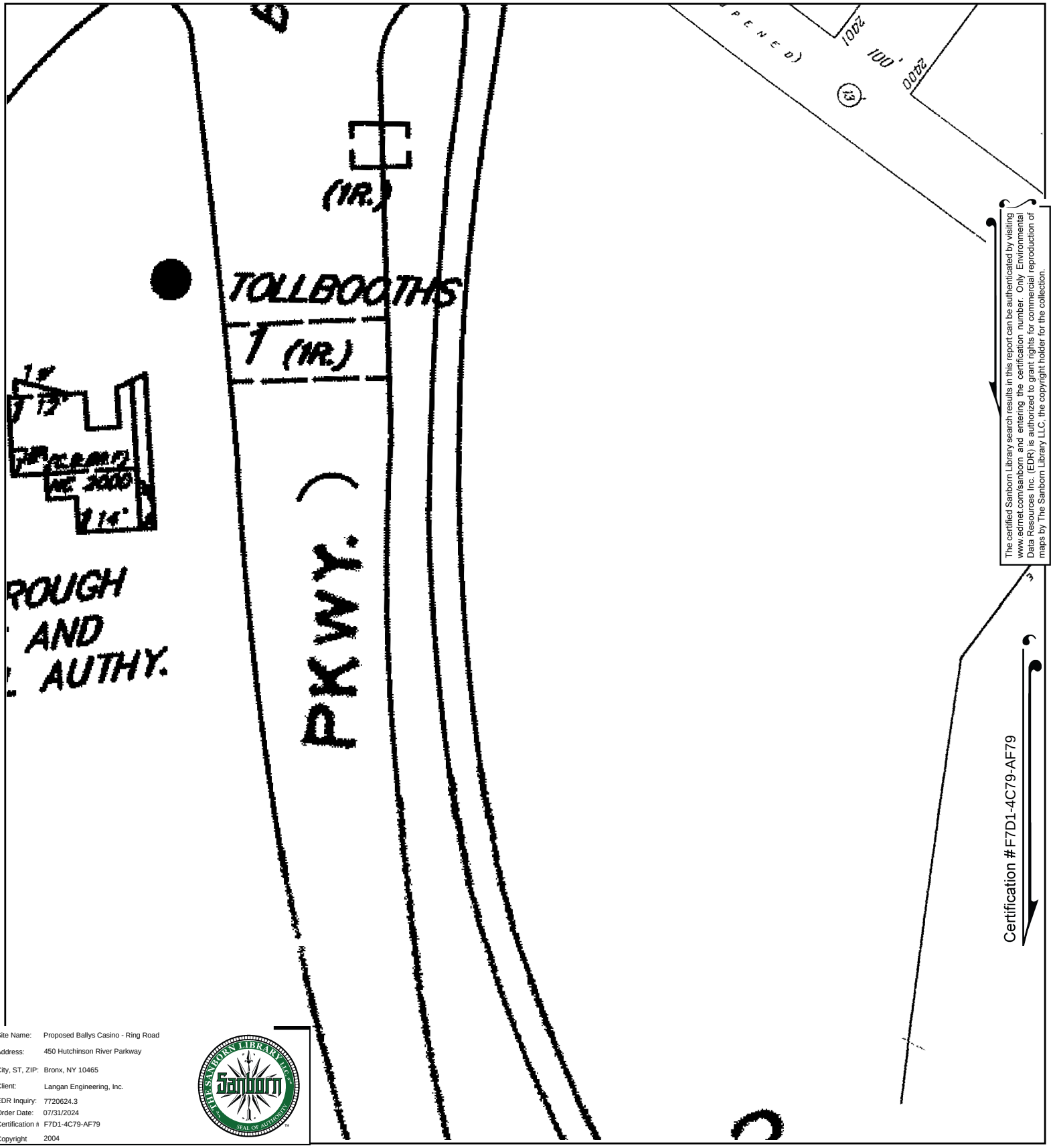

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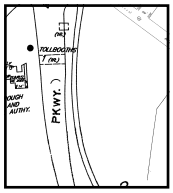

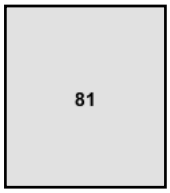

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2003

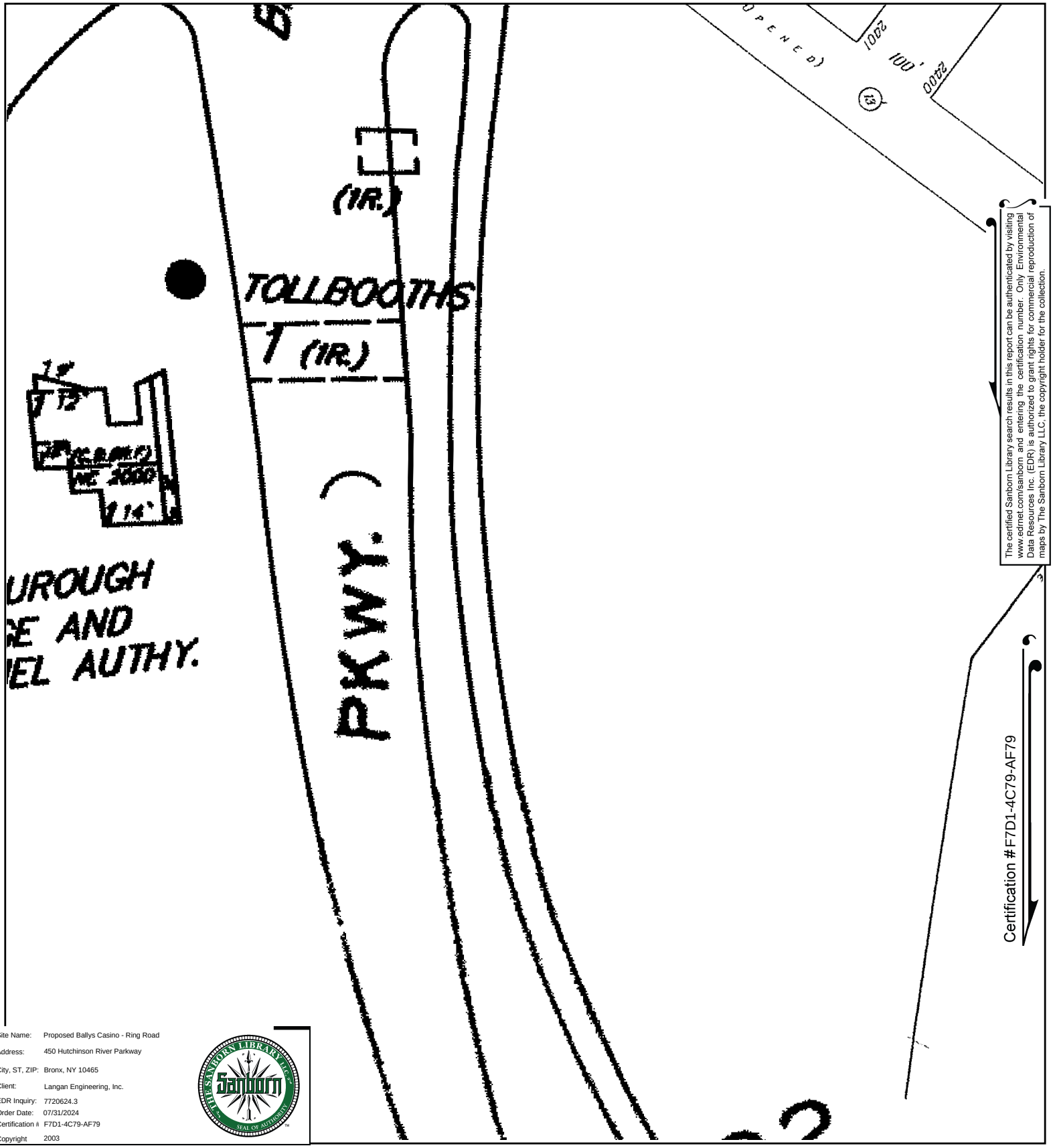

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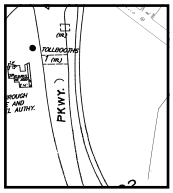

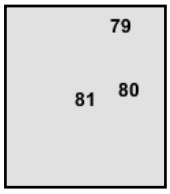

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2002

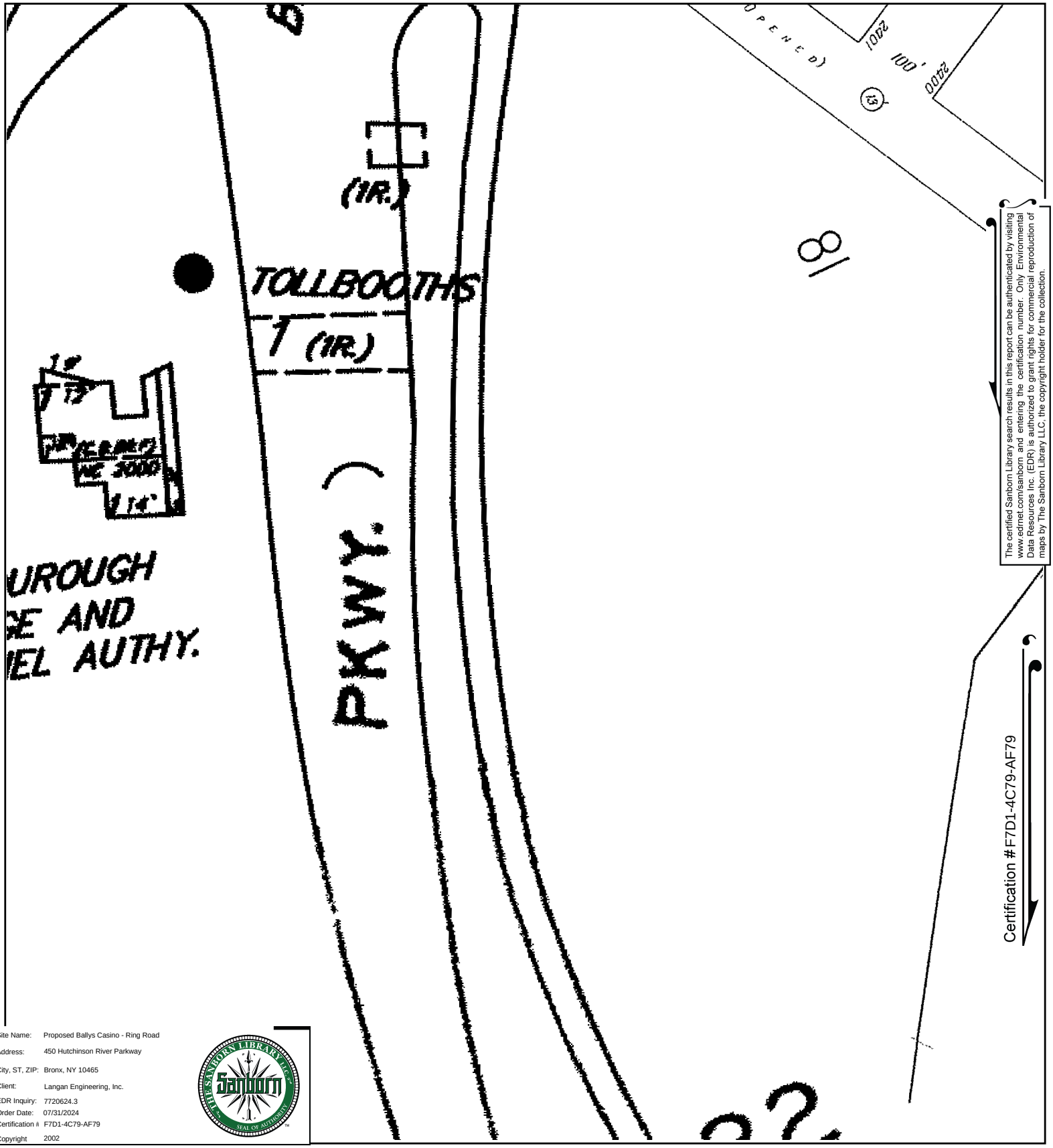

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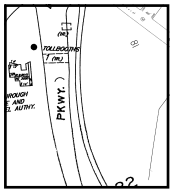

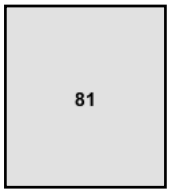

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2001

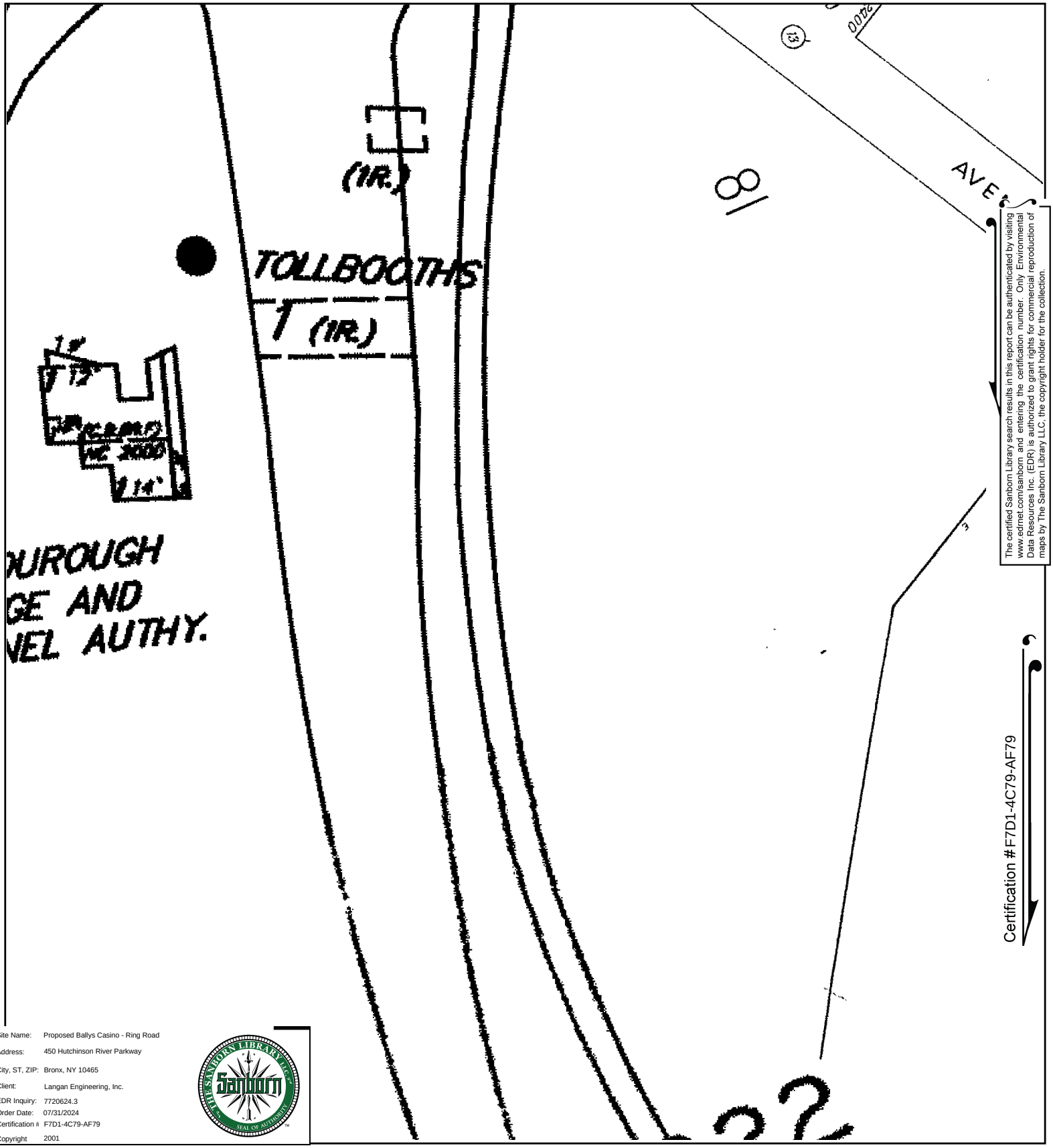

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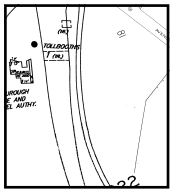

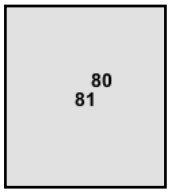

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1998

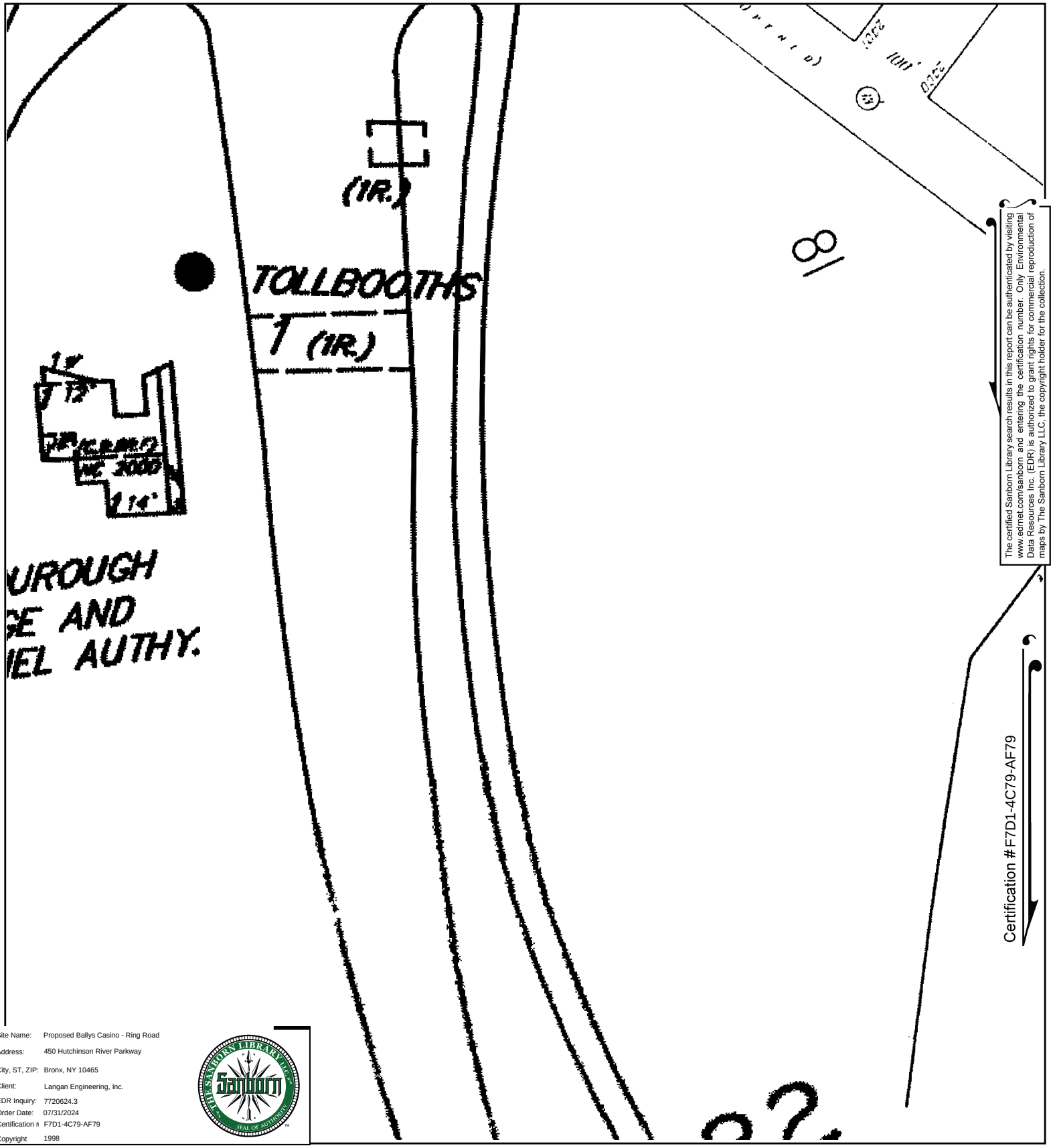

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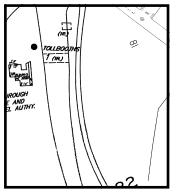

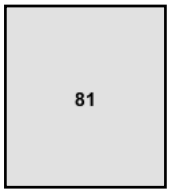

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1996

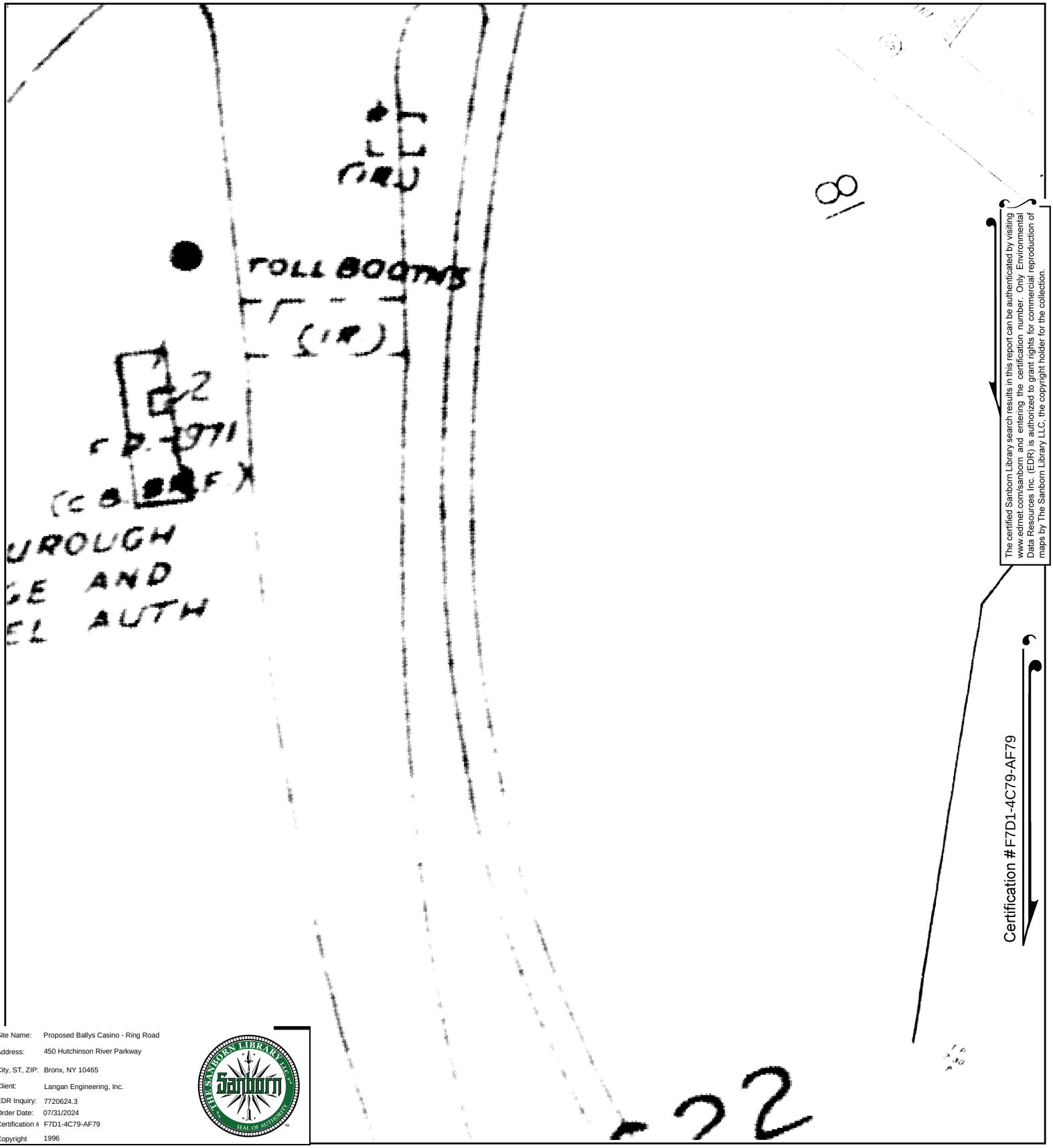

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Certification #	F7D1-4C79-AF79
Copyright	1996

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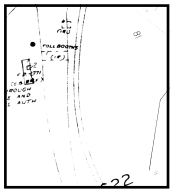

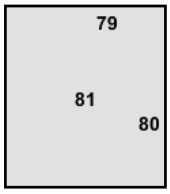

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N

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1995

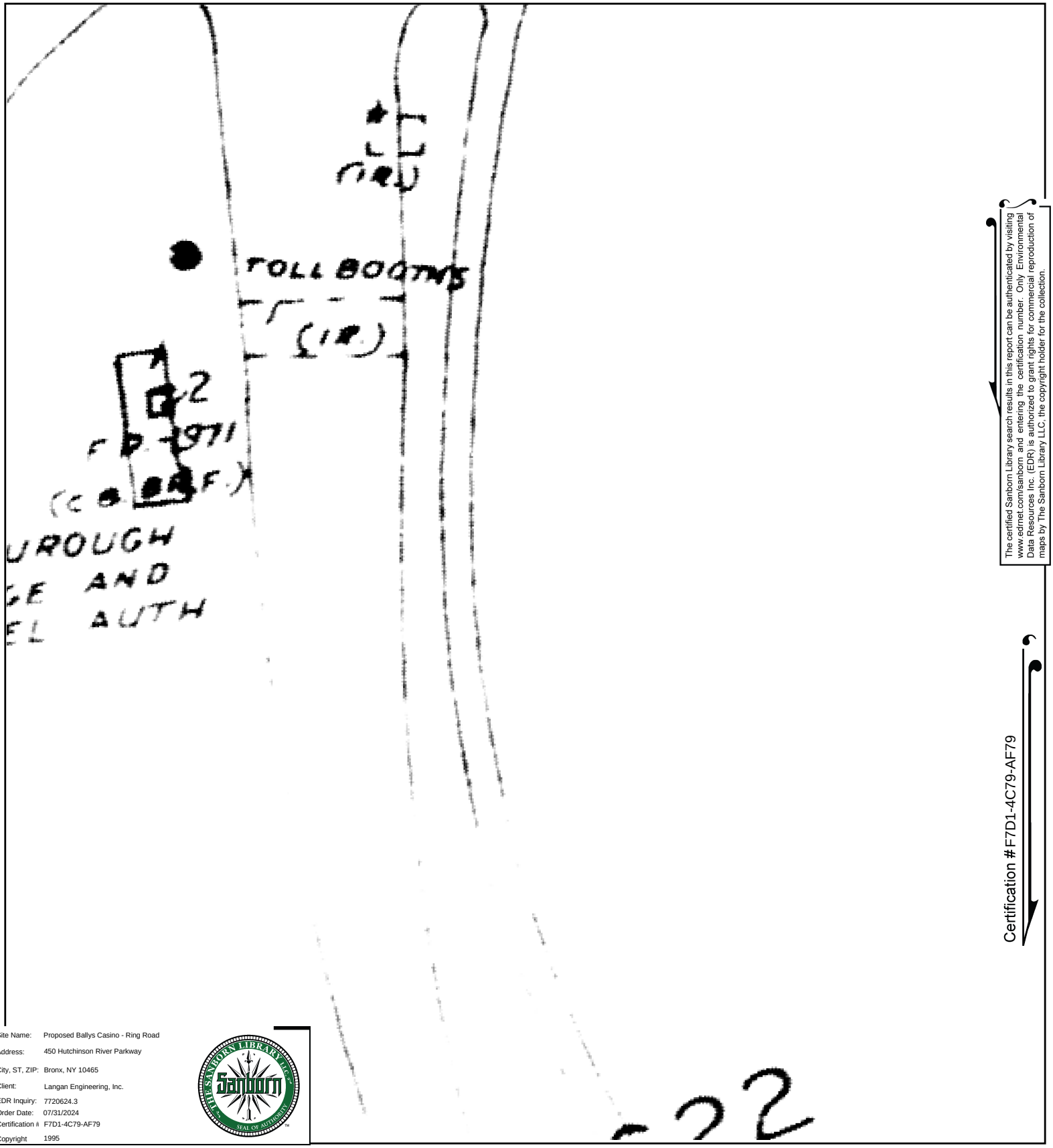

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Copyright	1995

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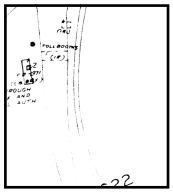

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1993

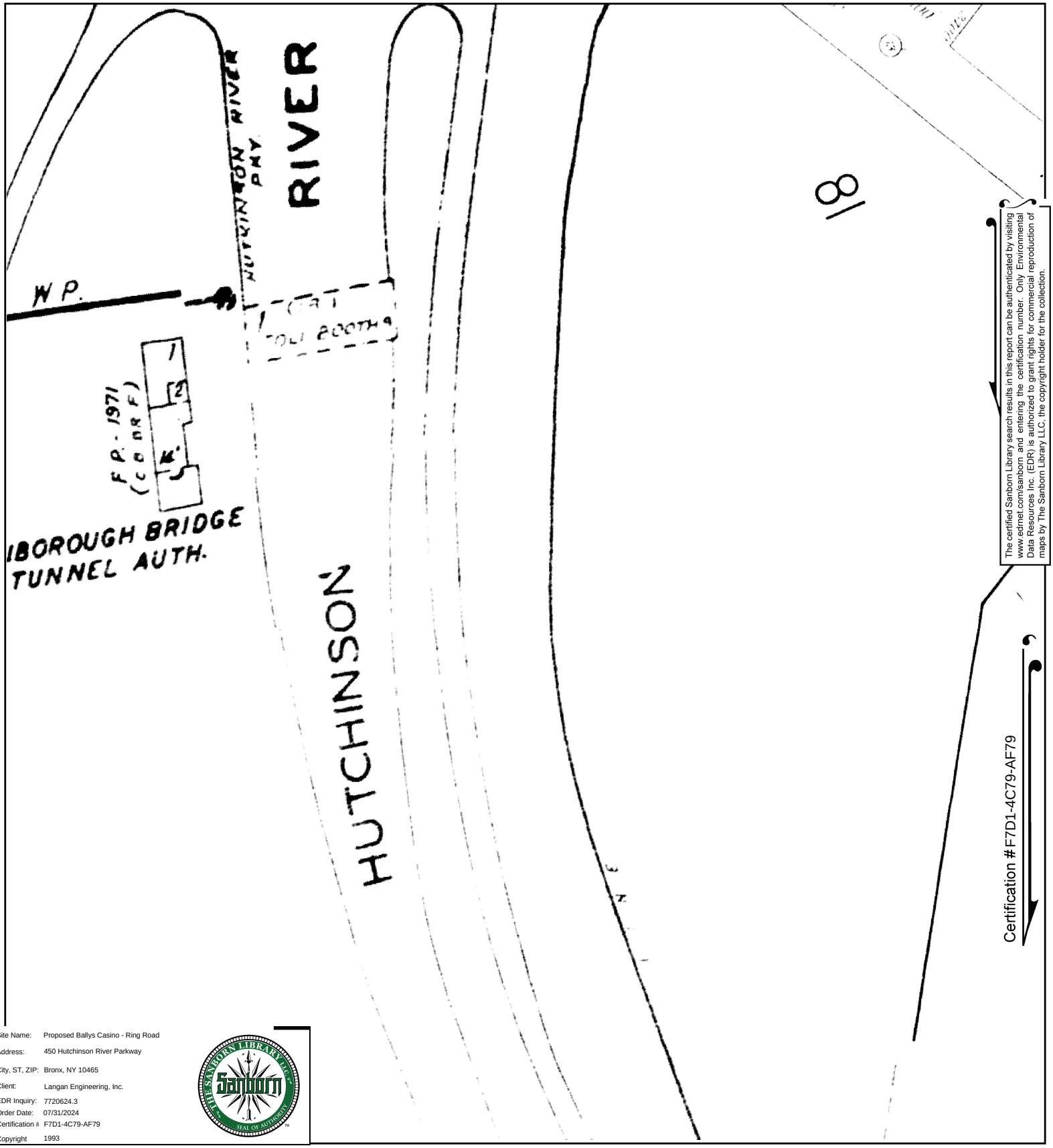

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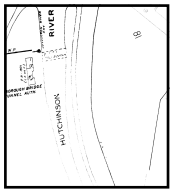

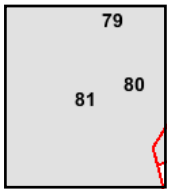

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1992

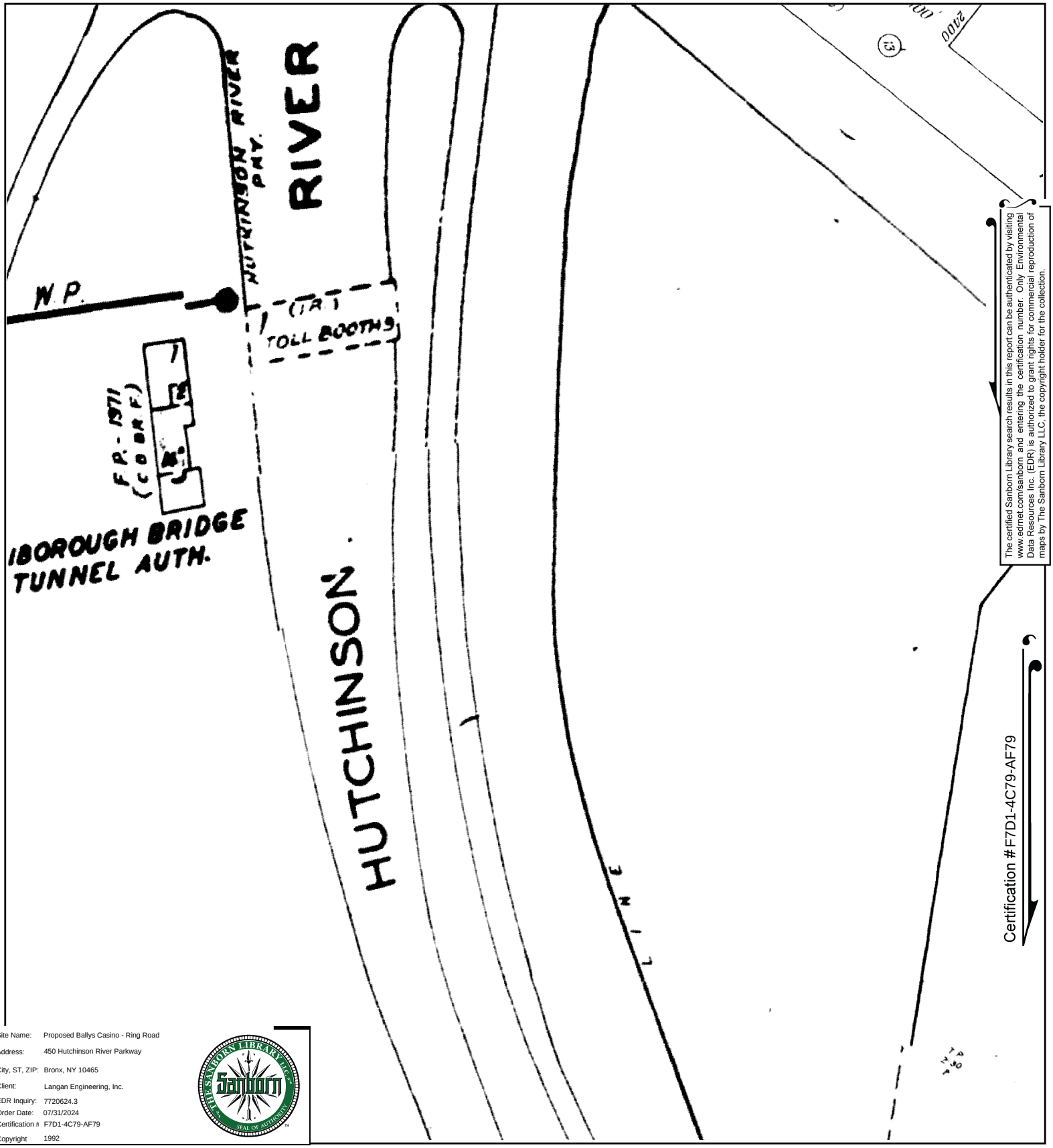

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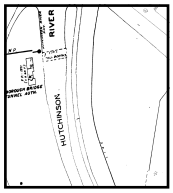

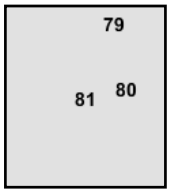

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1991

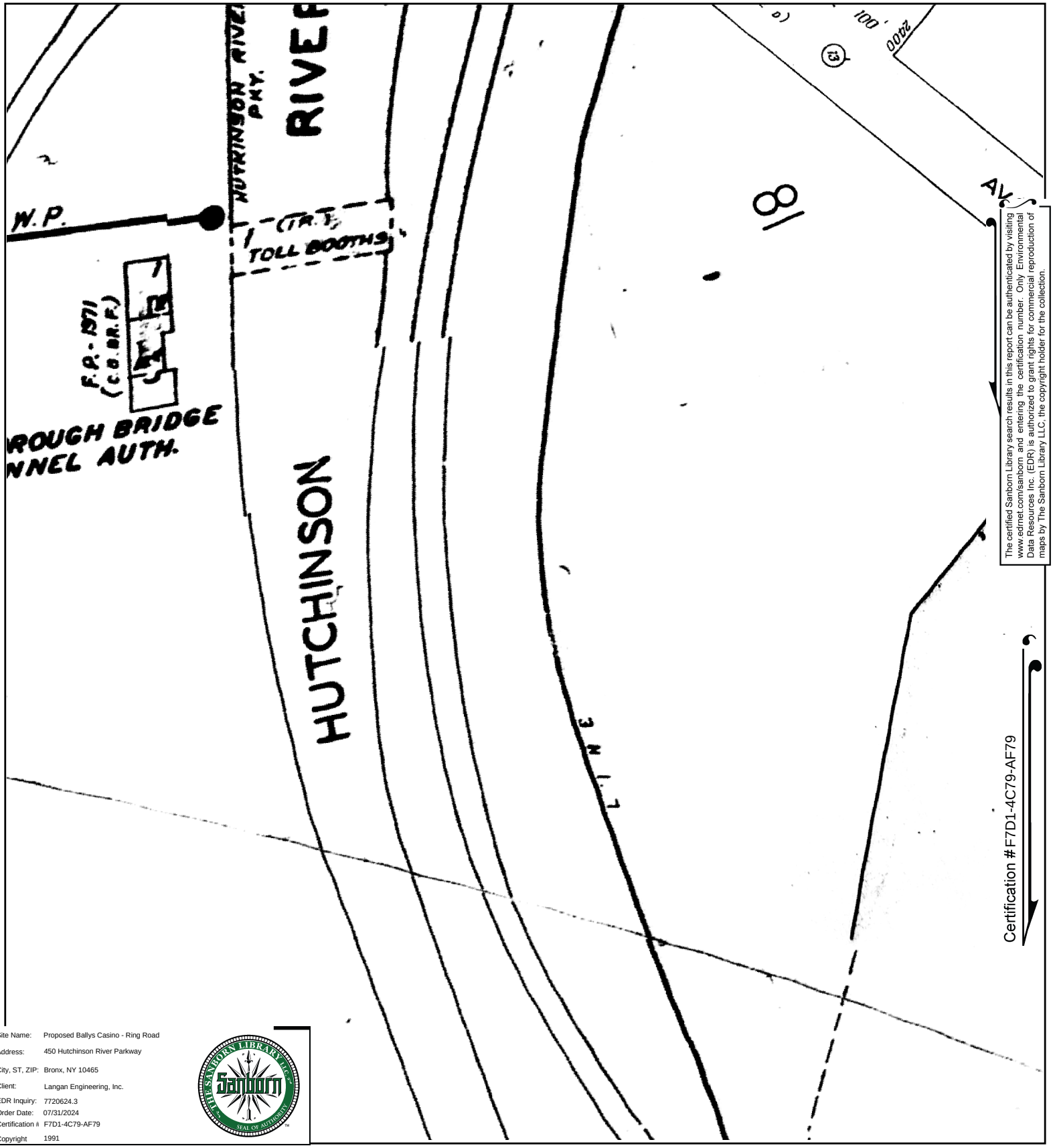

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Copyright	1991

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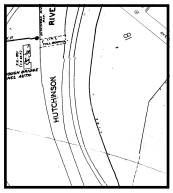

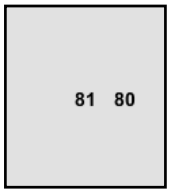

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1988

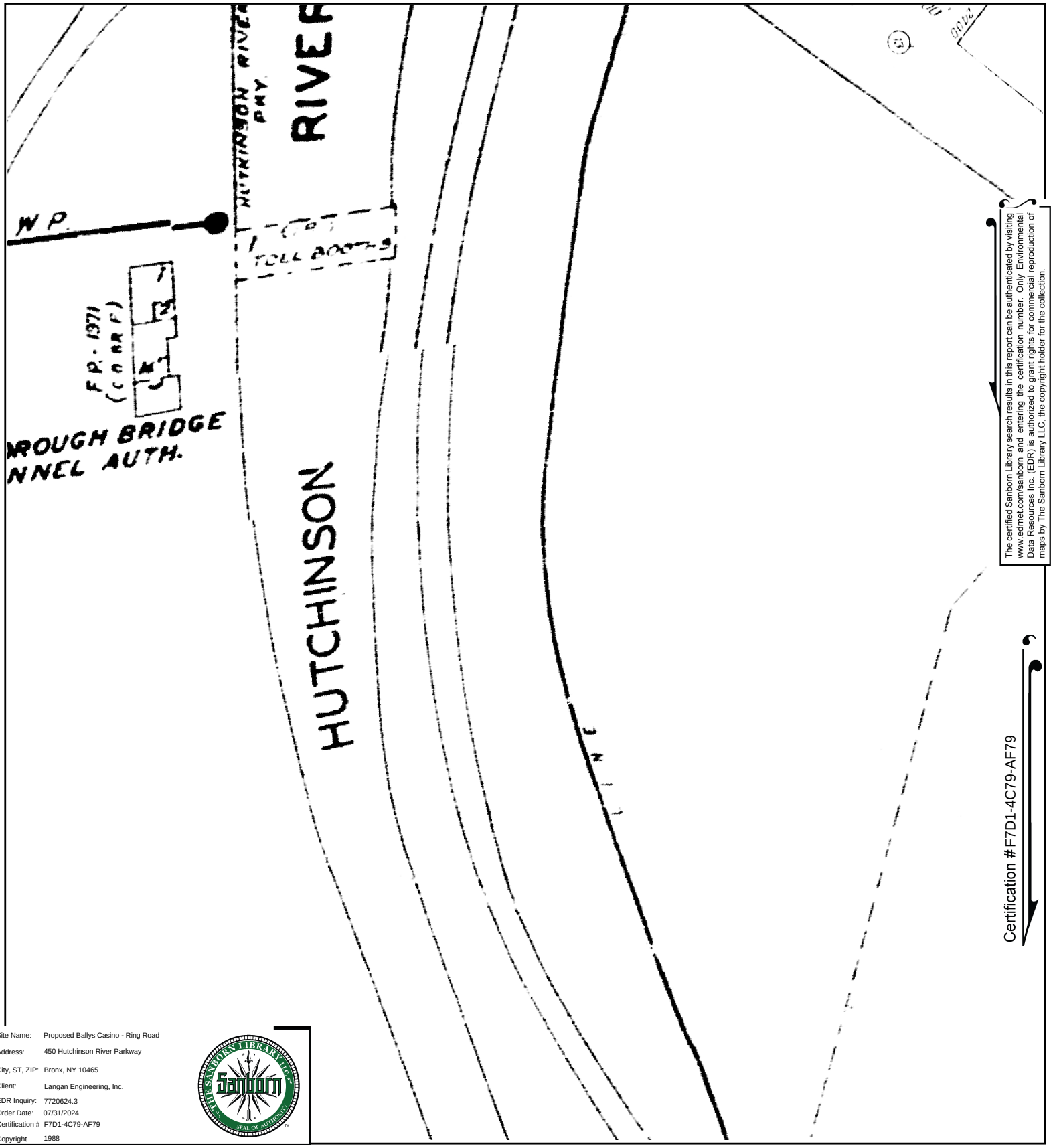

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Copyright	1988

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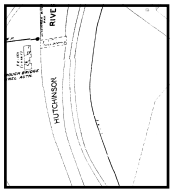

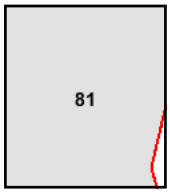

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1986

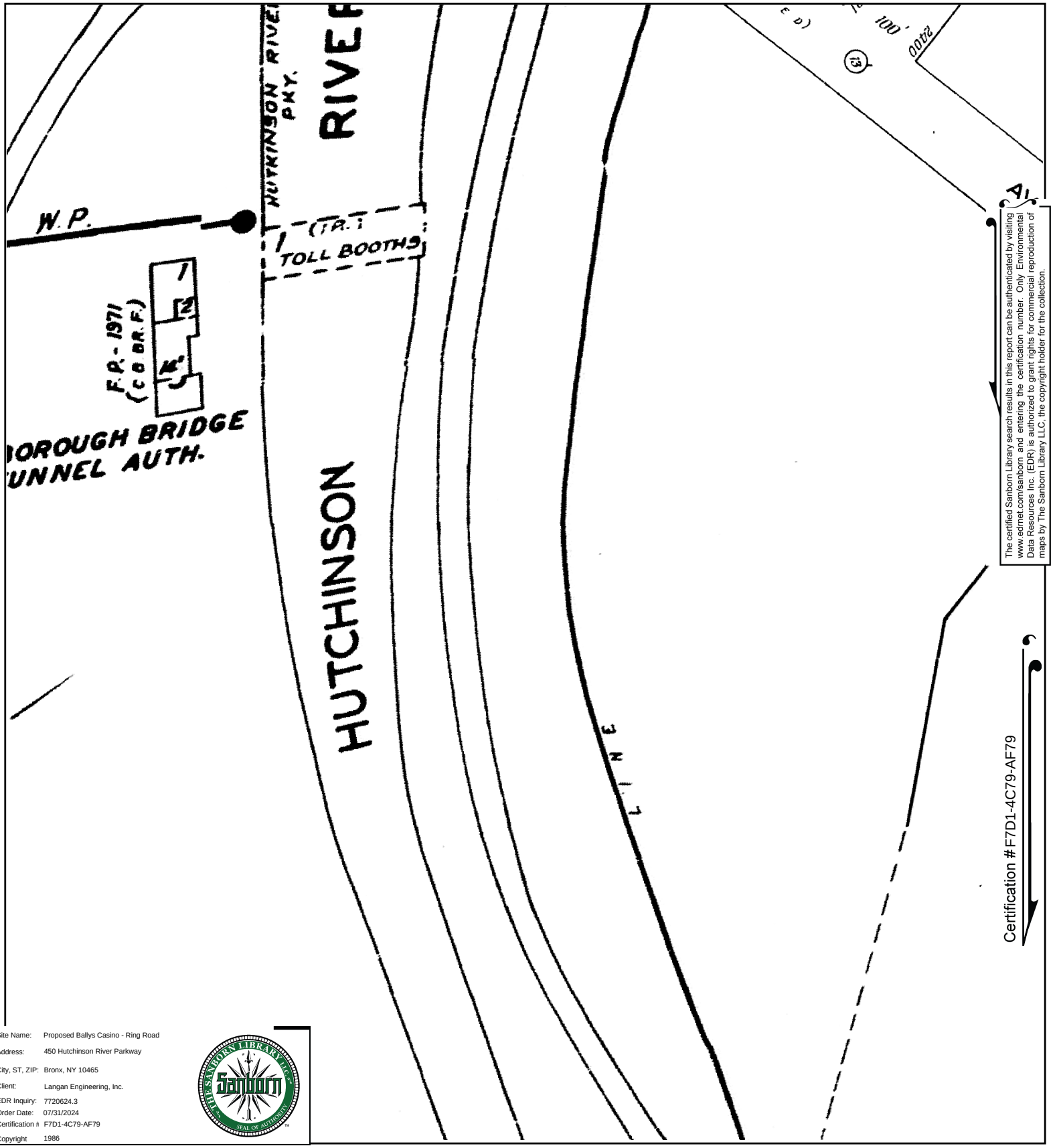

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Copyright	1986

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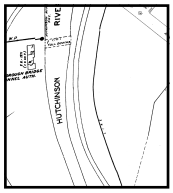

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1983

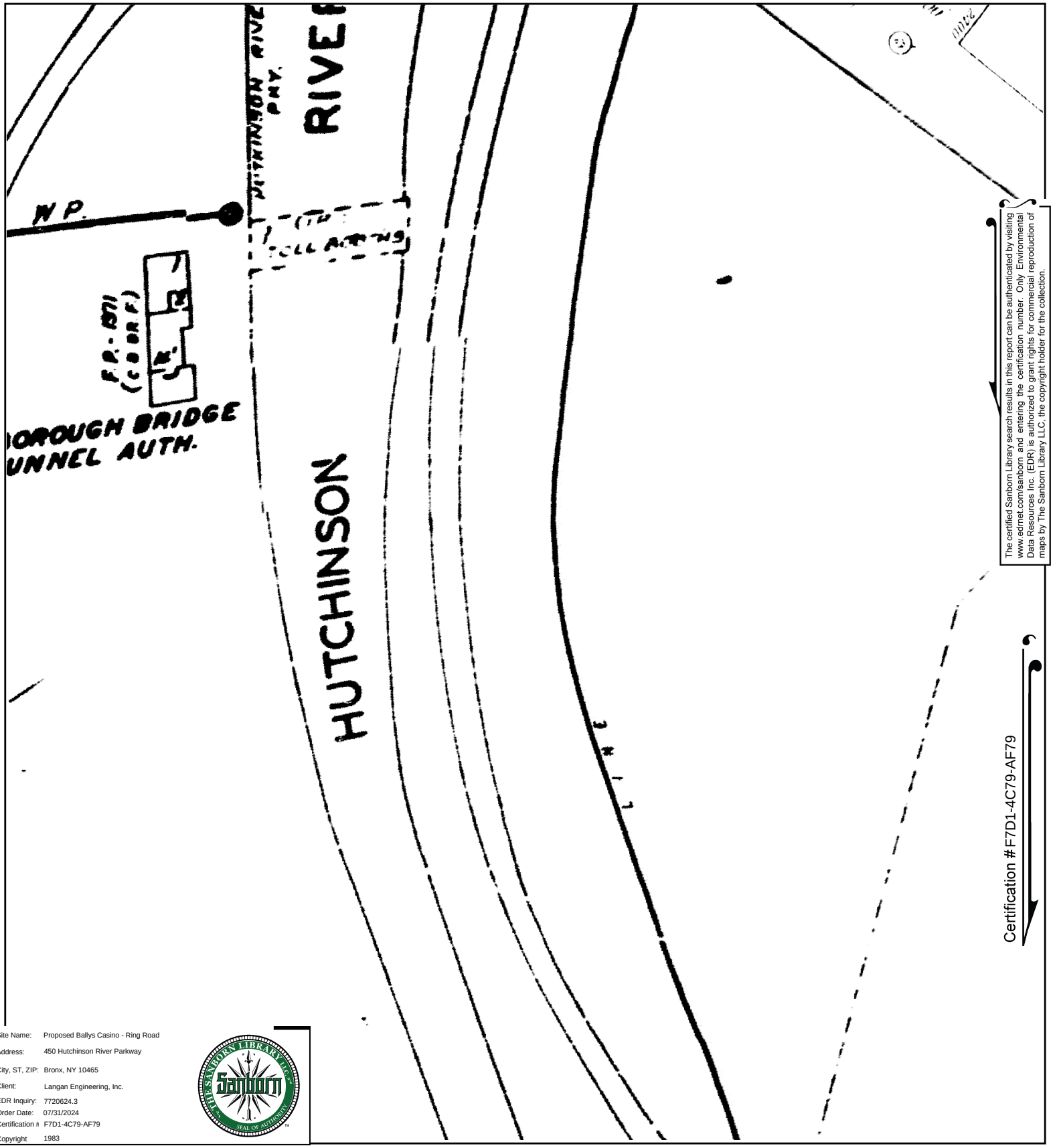

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1983

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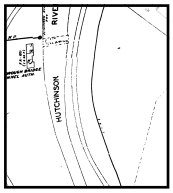

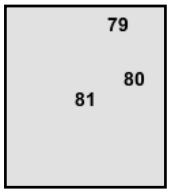

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N

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1981

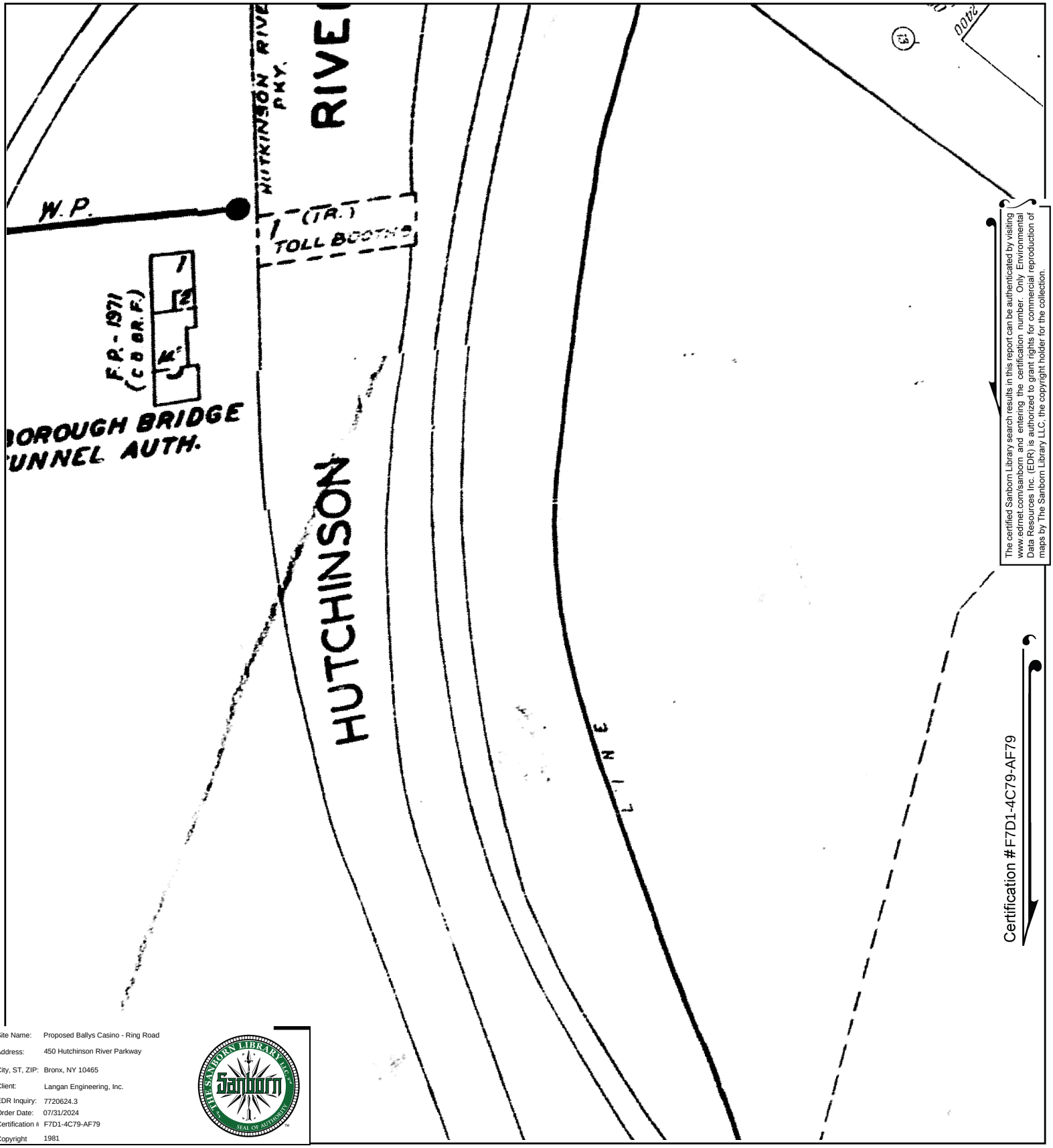

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Certification #	F7D1-4C79-AF79
Copyright	1981

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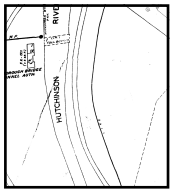

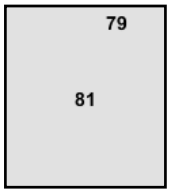

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1978

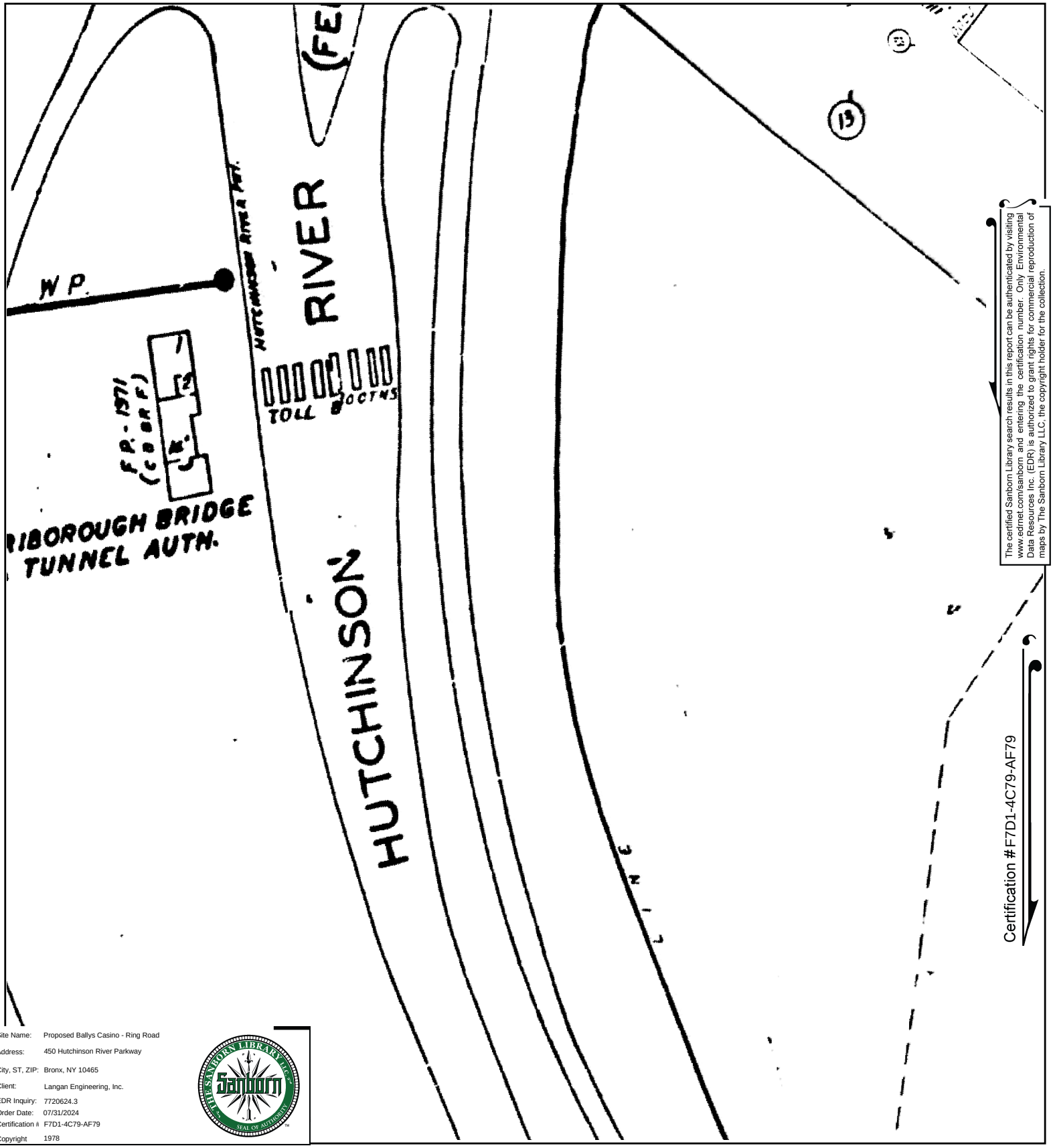

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City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1978

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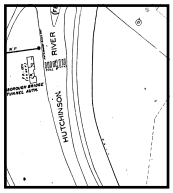

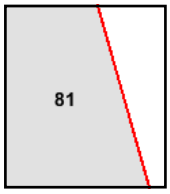

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1977

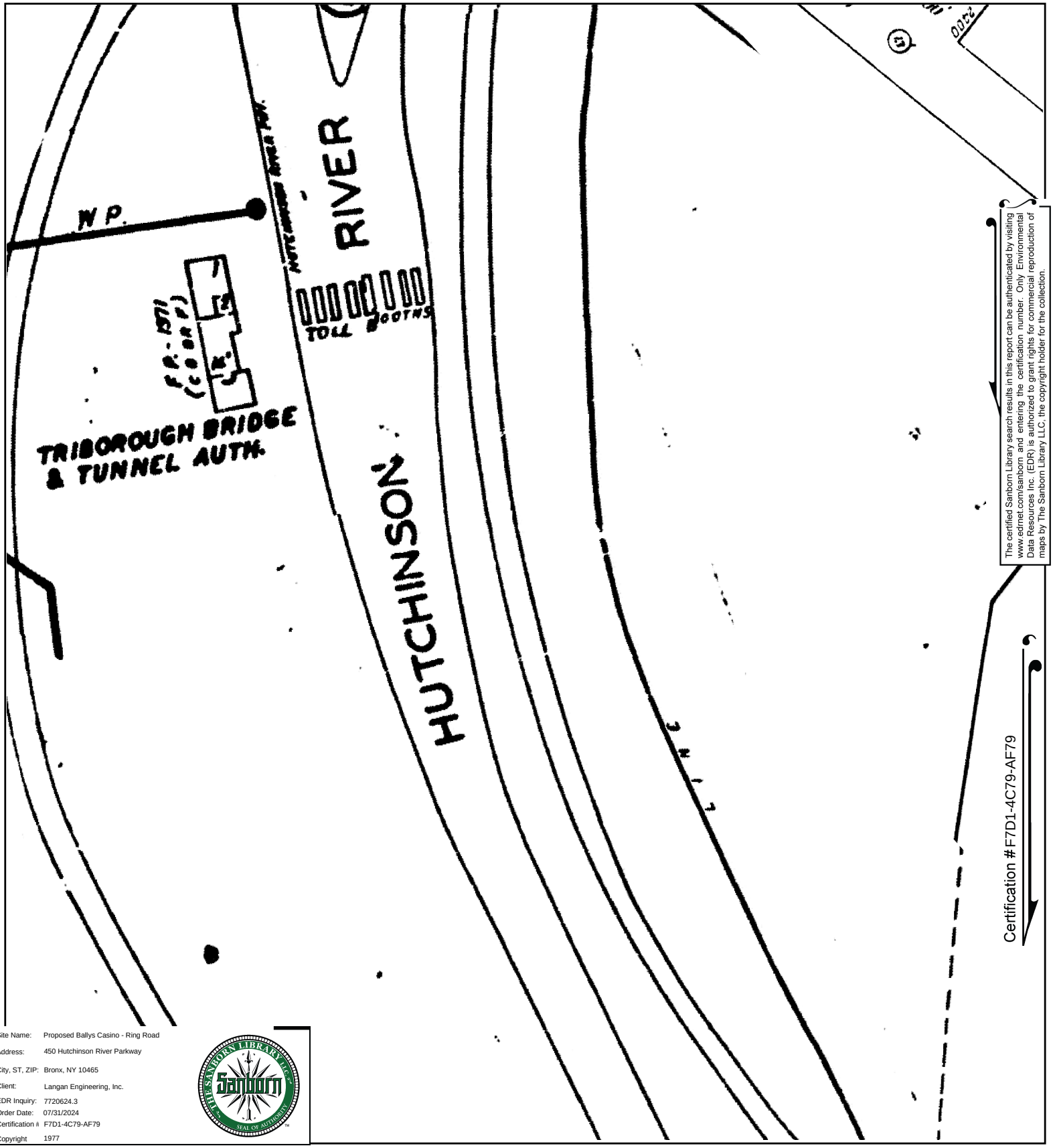

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Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1977

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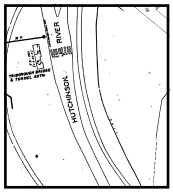

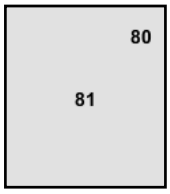

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N

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1967

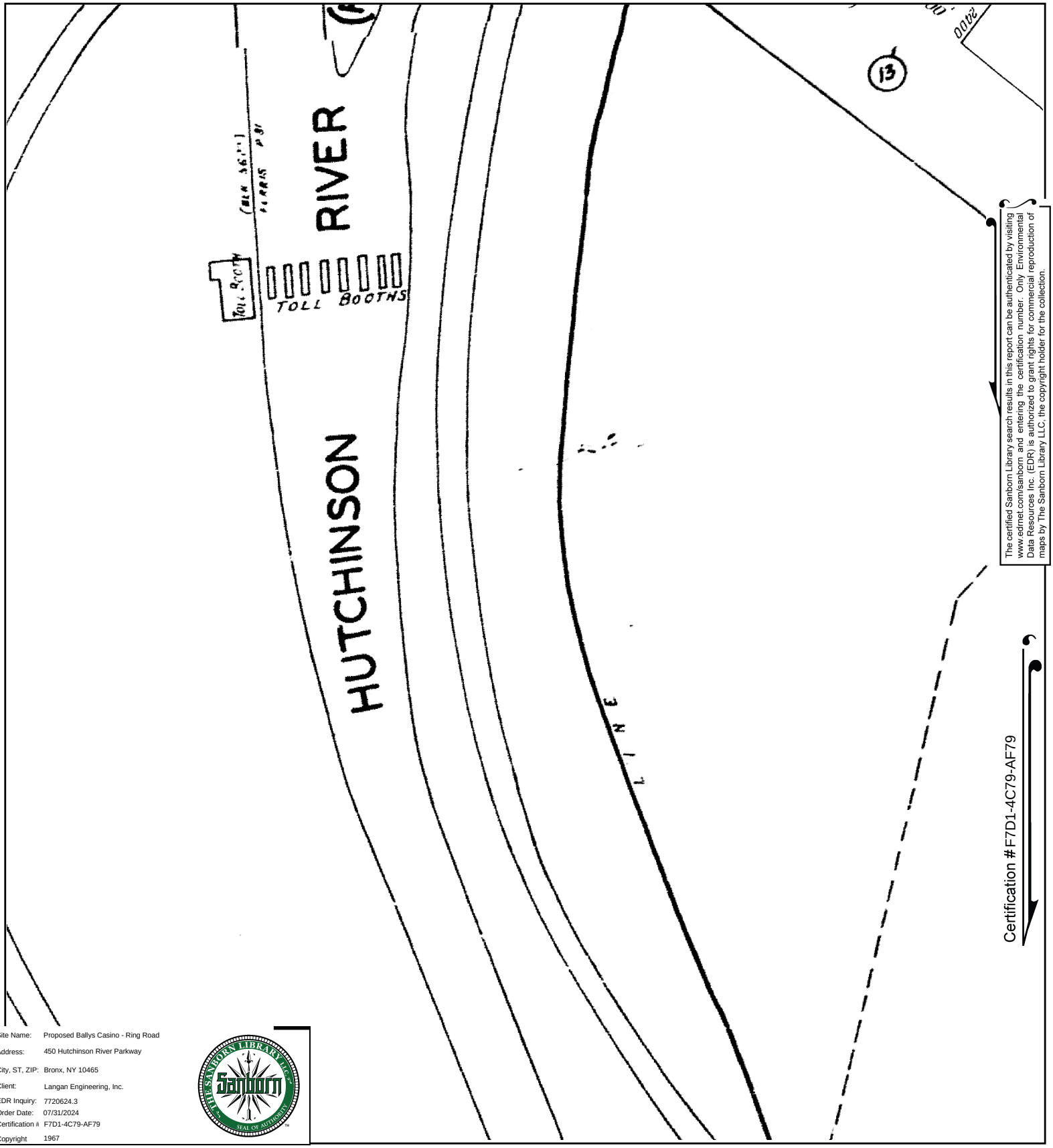

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Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
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Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1967

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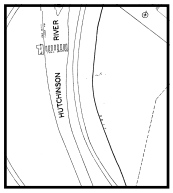

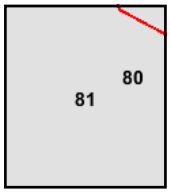

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N

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1950

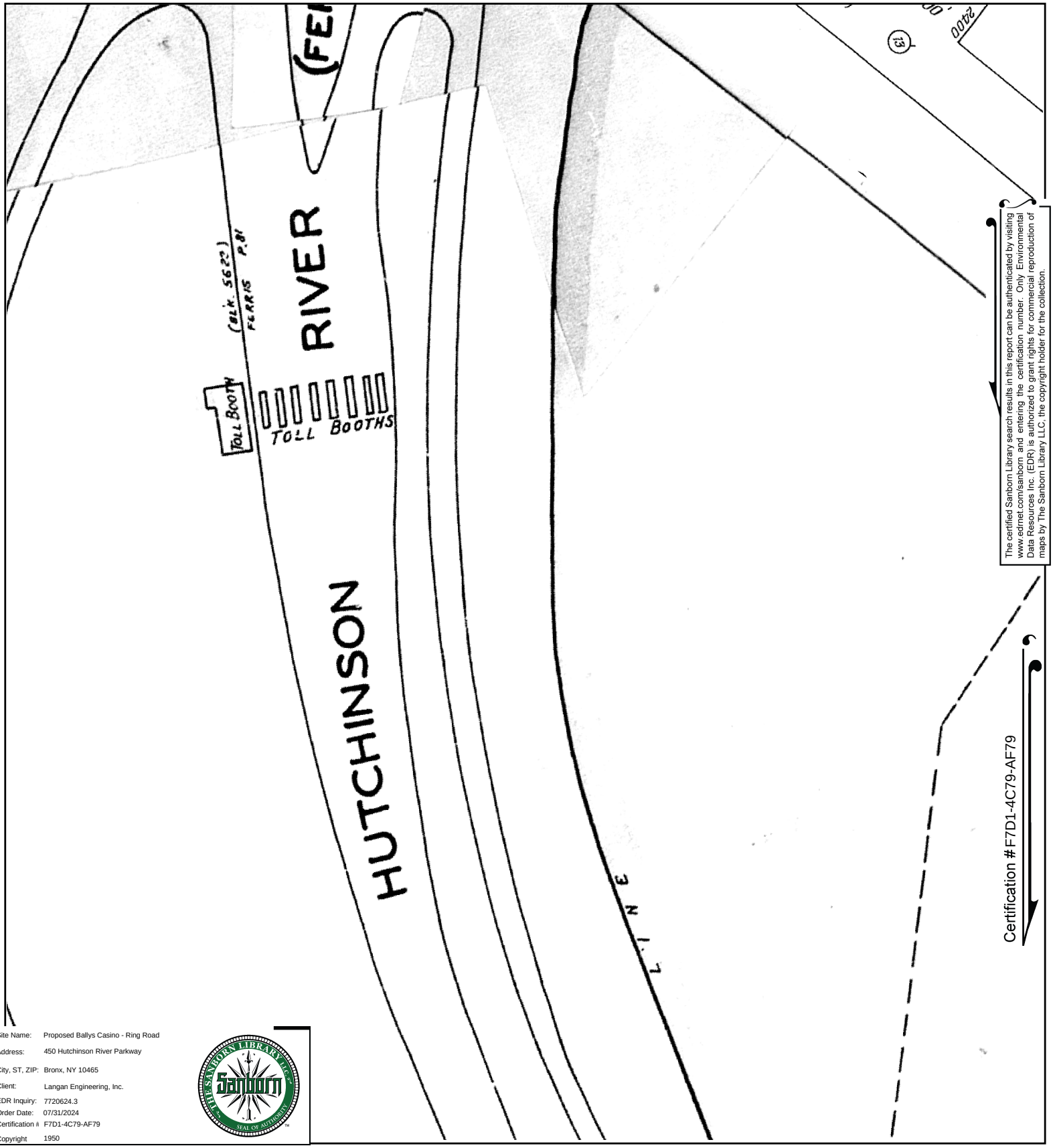

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Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1950

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81

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1930

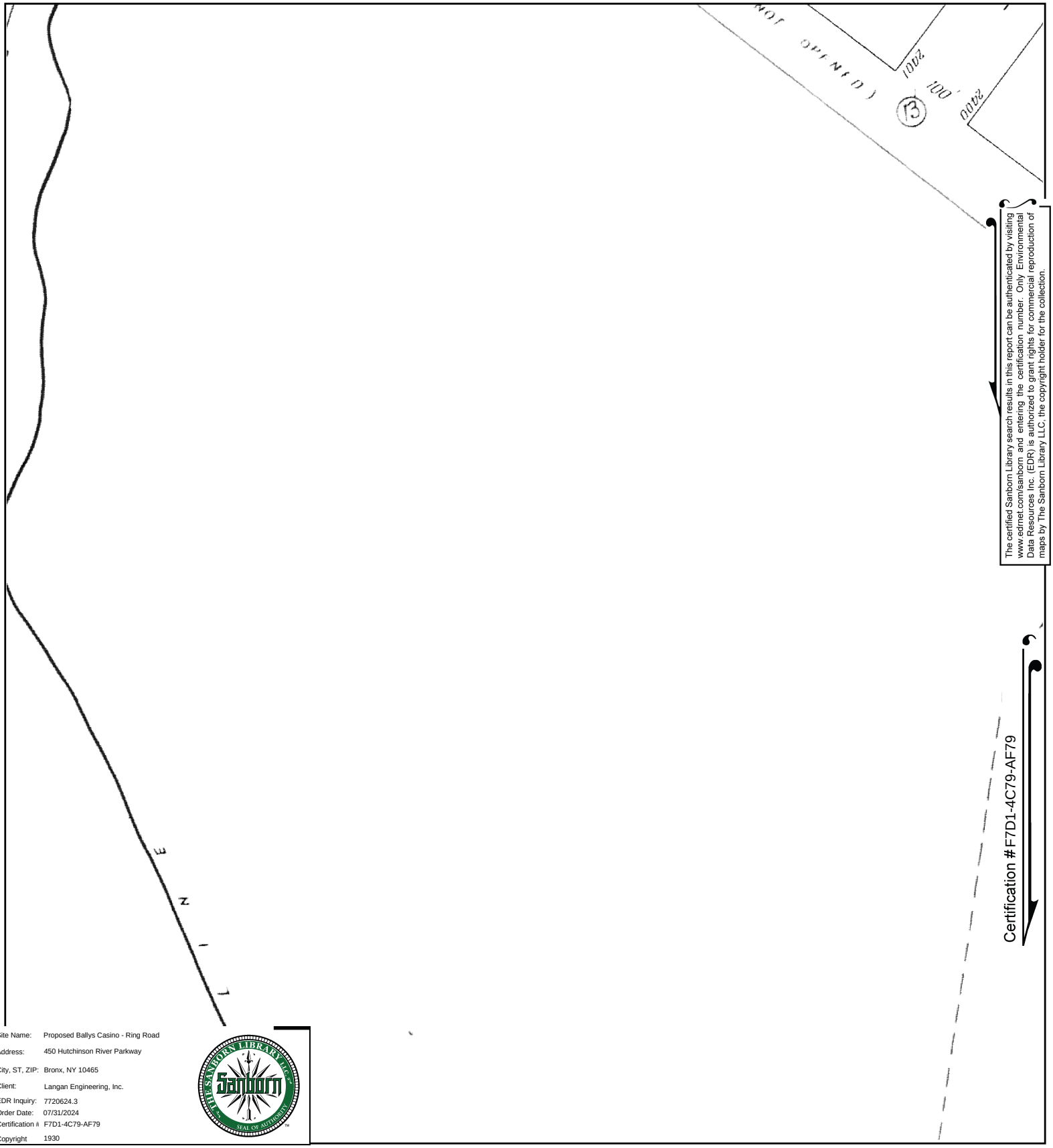

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Site Name:	Proposed Ballys Casino - Ring Road
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City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
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Certification #	F7D1-4C79-AF79
Copyright	1930

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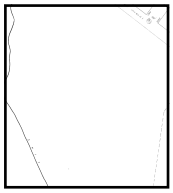

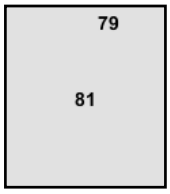

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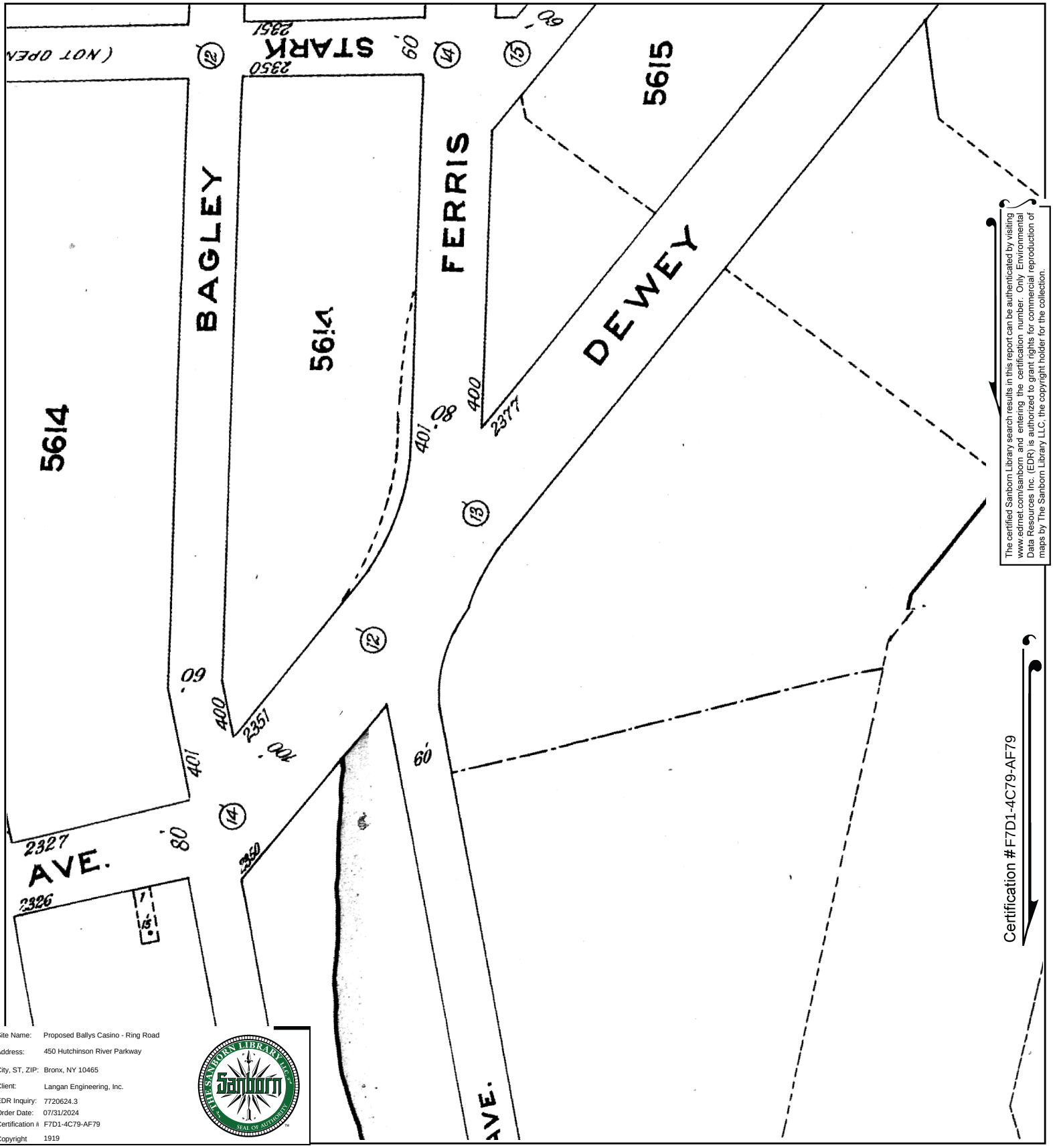

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Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1919

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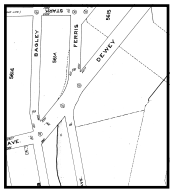

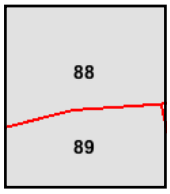

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Volume 17, Sheet 88

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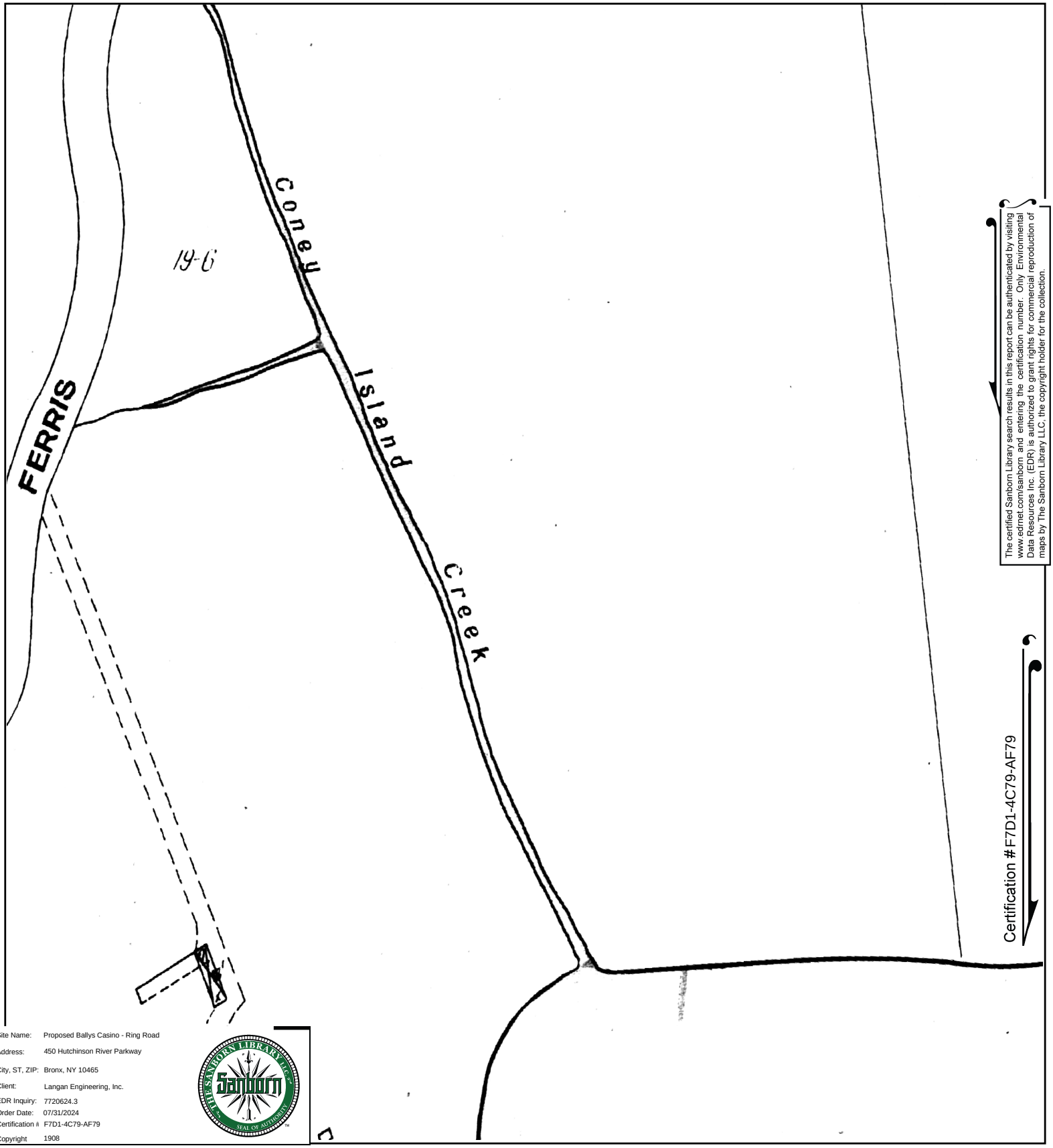

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EDR Inquiry:	7720624.3
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Certification #	F7D1-4C79-AF79
Copyright	1908

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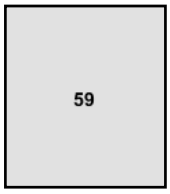

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N

Certified Sanborn® Map

1898

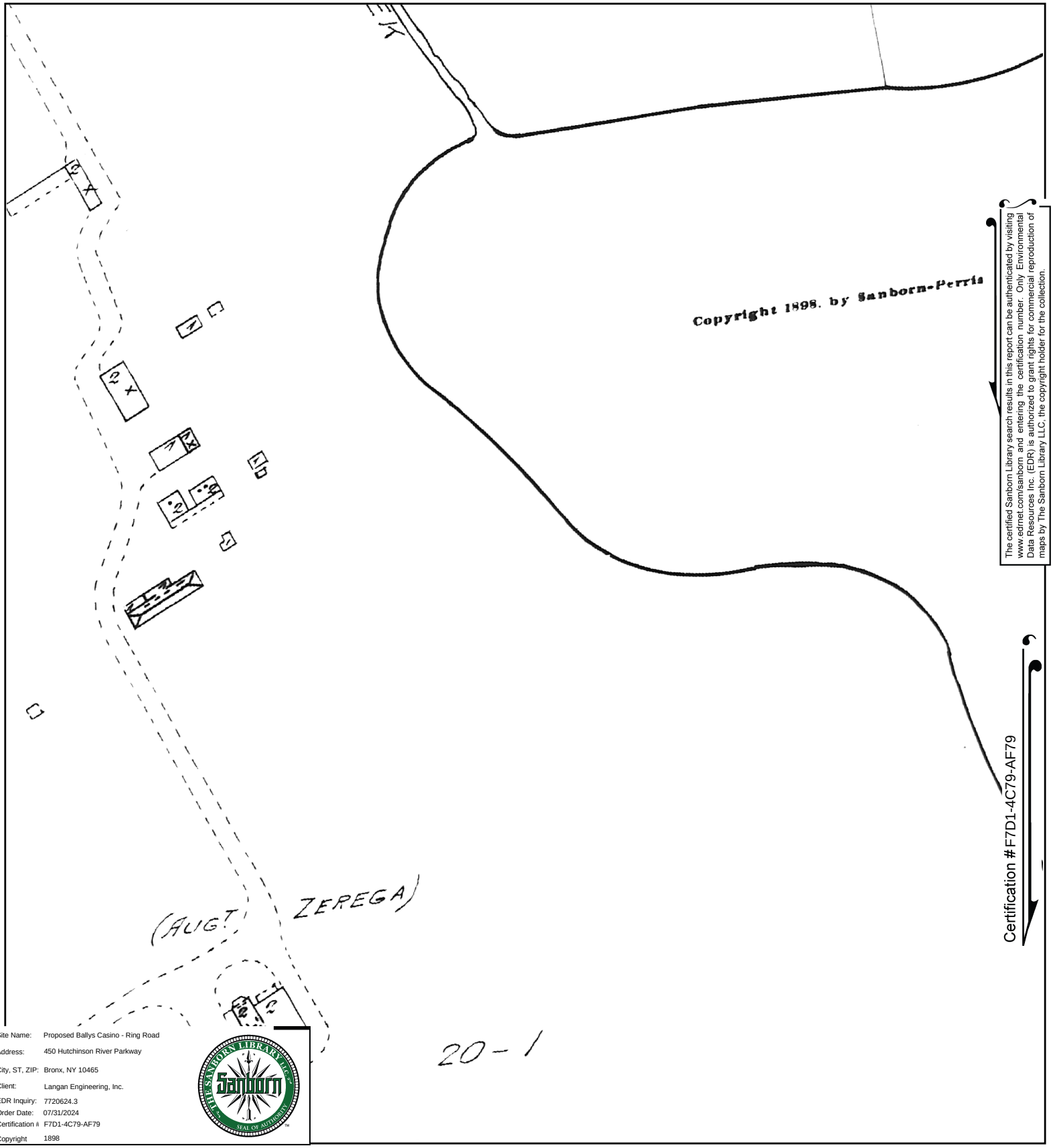

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1898

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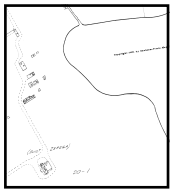

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N

Proposed Ballys Casino - Ring Road

450 Hutchinson River Parkway

Bronx, NY 10465

Inquiry Number: 7720624.3

July 31, 2024

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Shelton, CT 06484
Toll Free: 800.352.0050
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Certified Sanborn® Map Report

07/31/24

Site Name:	Client Name:
Proposed Ballys Casino - Ring	Langan Engineering, Inc.
450 Hutchinson River Parkway	360 W. 31st Street
Bronx, NY 10465	New York, NY 10001
EDR Inquiry # 7720624.3	Contact: Kaitlyn Gioia

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Certified Sanborn Results:

Certification # F7D1-4C79-AF79

PO # 170773001

Project Prpsd Bally s Casino - Ring Rd

Maps Provided:

2007	1996	1981	1898
2006	1995	1978	
2005	1993	1977	
2004	1992	1967	
2003	1991	1950	
2002	1988	1930	
2001	1986	1919	
1998	1983	1908	

Sanborn® Library search results

Certification #: F7D1-4C79-AF79

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- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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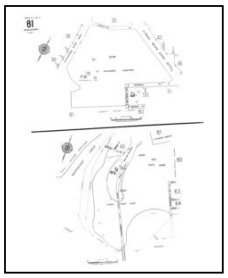

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2007

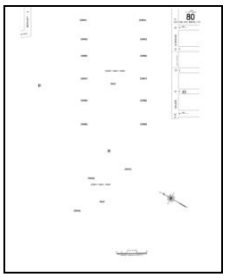

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2007

2006 Source Sheets

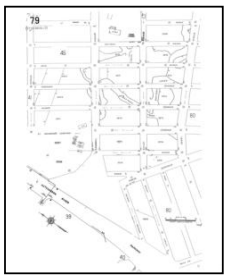

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2006

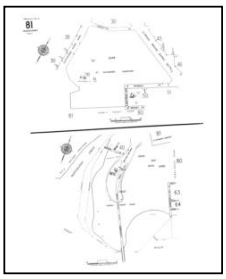

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2006

2005 Source Sheets

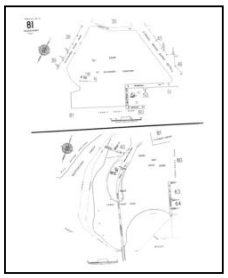

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2005

2004 Source Sheets

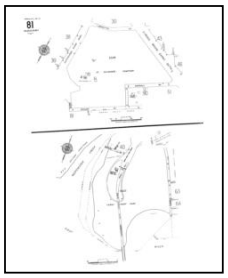

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2004

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2003 Source Sheets

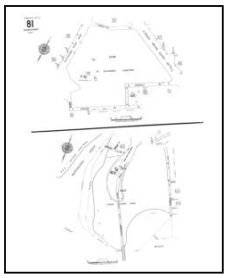

Volume 21, Sheet 81
2003

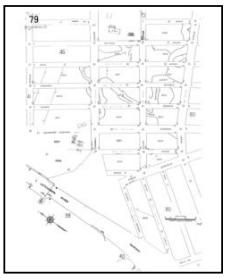

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2003

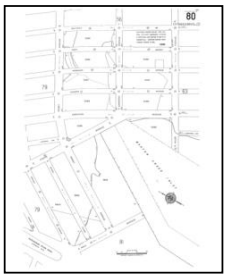

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2003

2002 Source Sheets

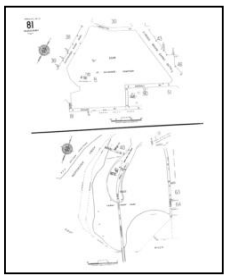

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2002

2001 Source Sheets

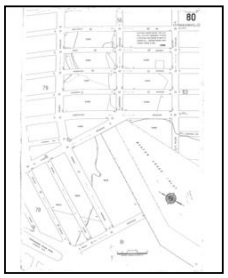

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2001

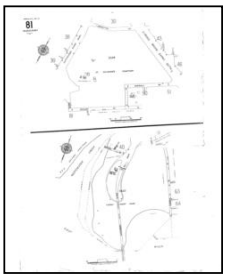

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2001

1998 Source Sheets

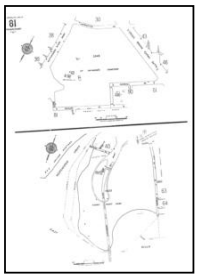

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1998

Sanborn Sheet Key

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1996 Source Sheets

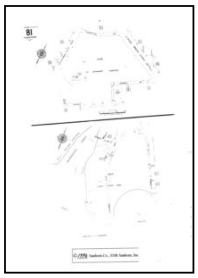

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1996

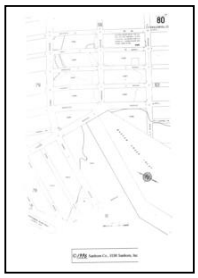

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1996

Volume 21, Sheet 79
1996

1995 Source Sheets

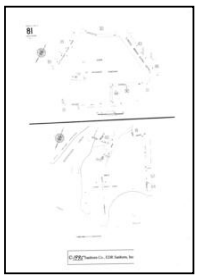

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1995

1993 Source Sheets

Volume 21, Sheet 81
1993

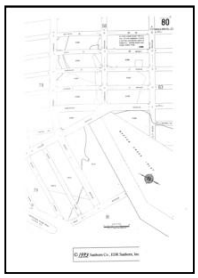

Volume 21, Sheet 80
1993

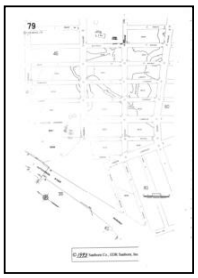

Volume 21, Sheet 79
1993

1992 Source Sheets

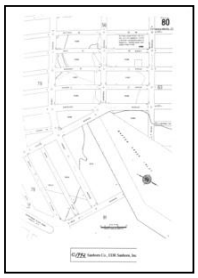

Volume 21, Sheet 80
1992

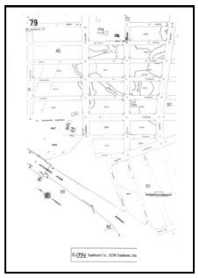

Volume 21, Sheet 79
1992

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1992

Sanborn Sheet Key

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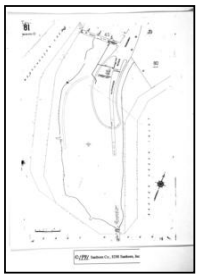

Volume 21, Sheet 81
1991

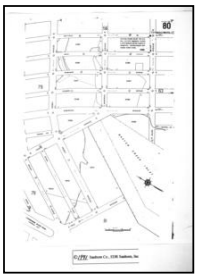

Volume 21, Sheet 80
1991

1988 Source Sheets

Volume 21, Sheet 81
1988

1986 Source Sheets

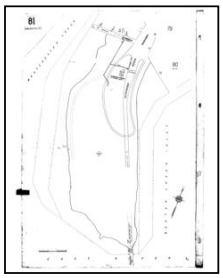

Volume 21, Sheet 81
1986

1983 Source Sheets

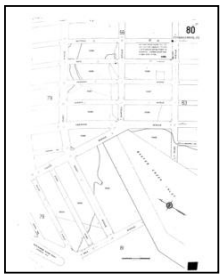

Volume 21, Sheet 80
1983

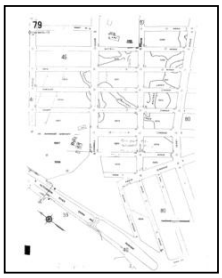

Volume 21, Sheet 79
1983

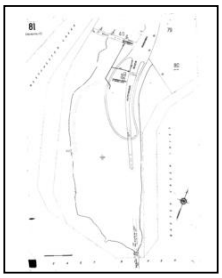

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1983

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1981 Source Sheets

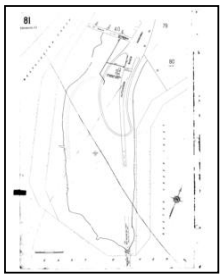

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1981

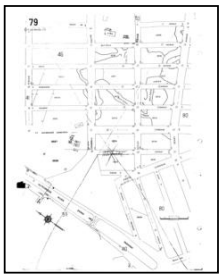

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1981

1978 Source Sheets

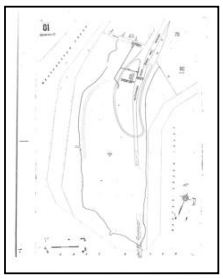

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1978

1977 Source Sheets

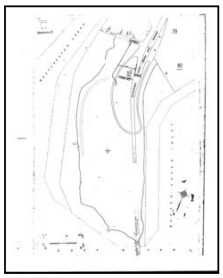

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1977

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1977

1967 Source Sheets

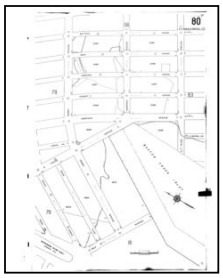

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1967

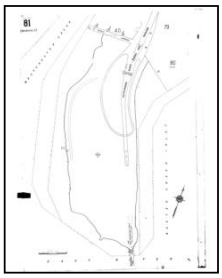

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1967

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1950 Source Sheets

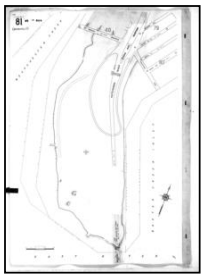

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1950

1930 Source Sheets

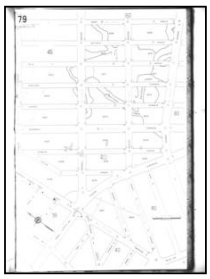

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1930

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1930

1919 Source Sheets

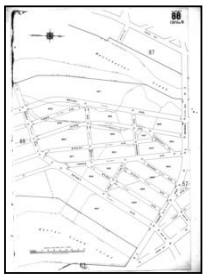

Volume 17, Sheet 88
1919

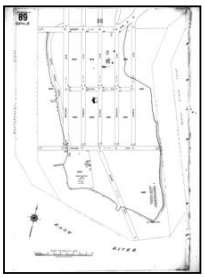

Volume 17, Sheet 89
1919

1908 Source Sheets

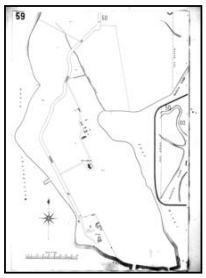

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1908

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1898 Source Sheets

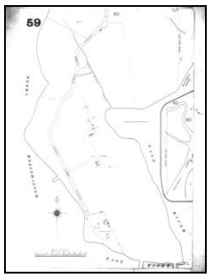

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1898

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2007

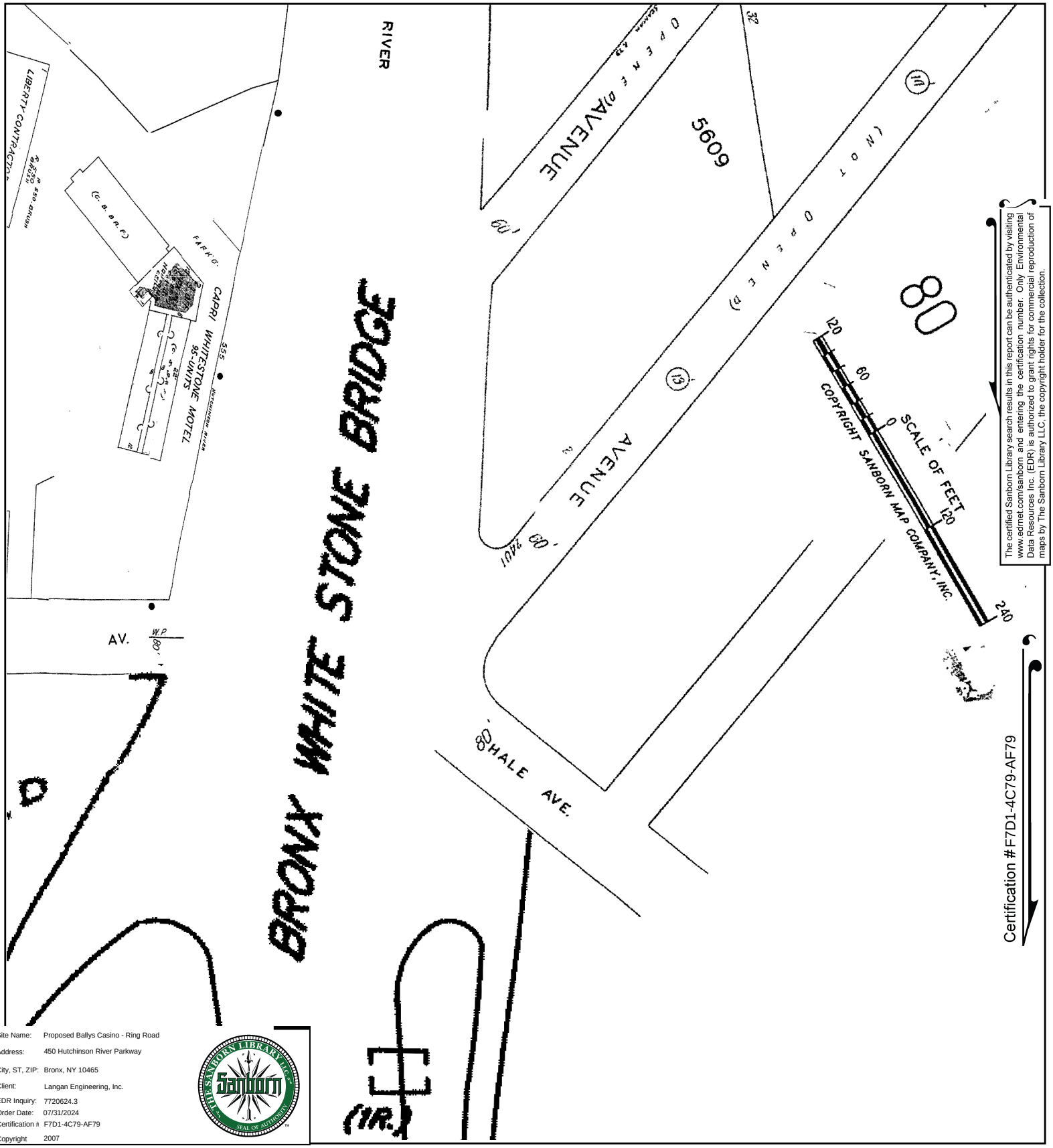

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Certification #F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	2007

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Outlined areas indicate map sheets within the collection.

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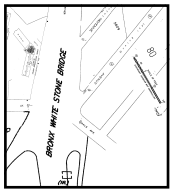

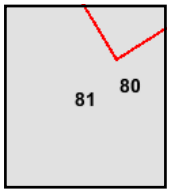

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N

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2006

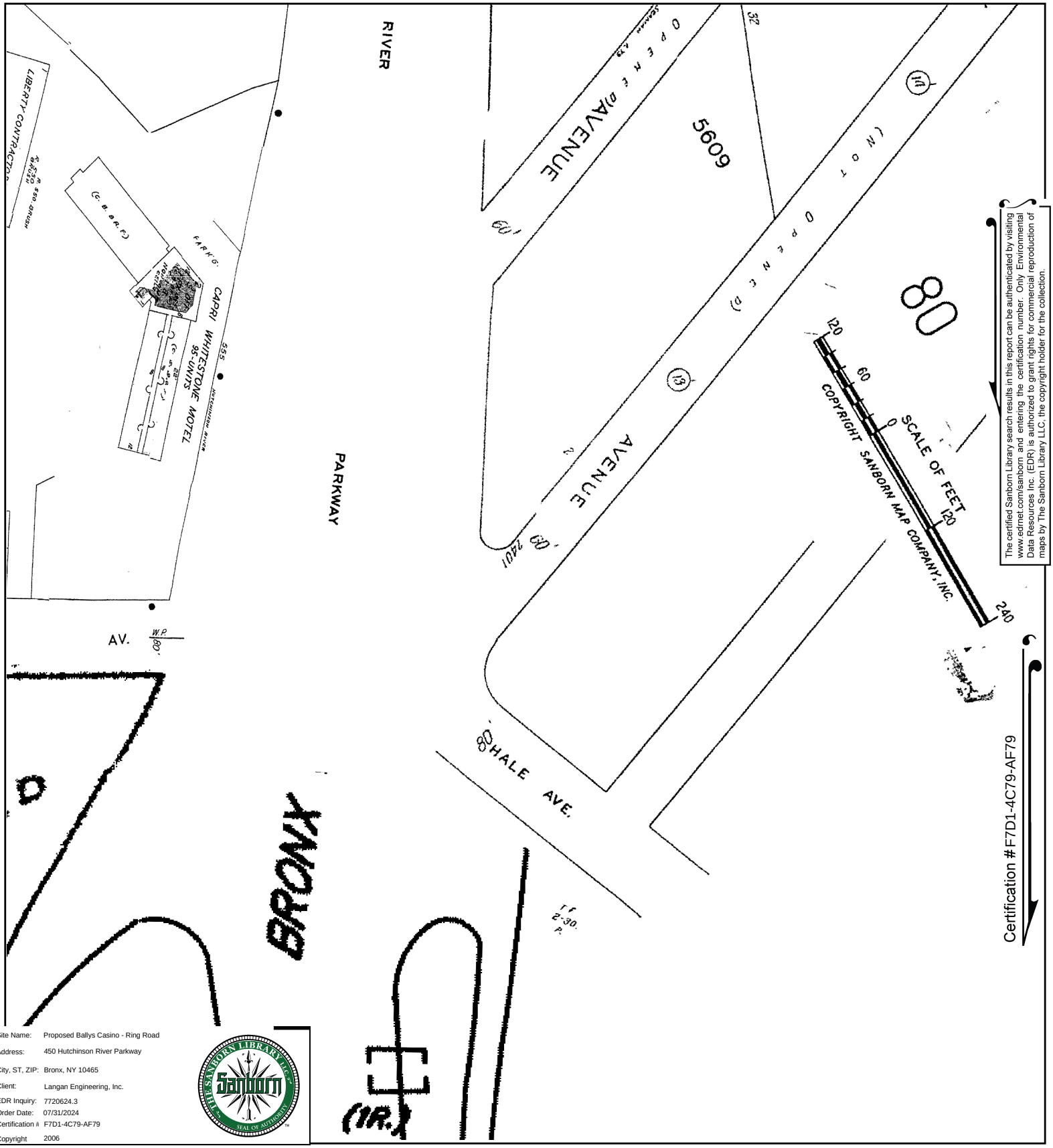

Site Name:	Proposed Ballys Casino - Ring Road
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Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	2006

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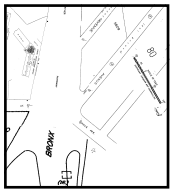

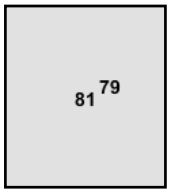

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N

Certified Sanborn® Map

2005

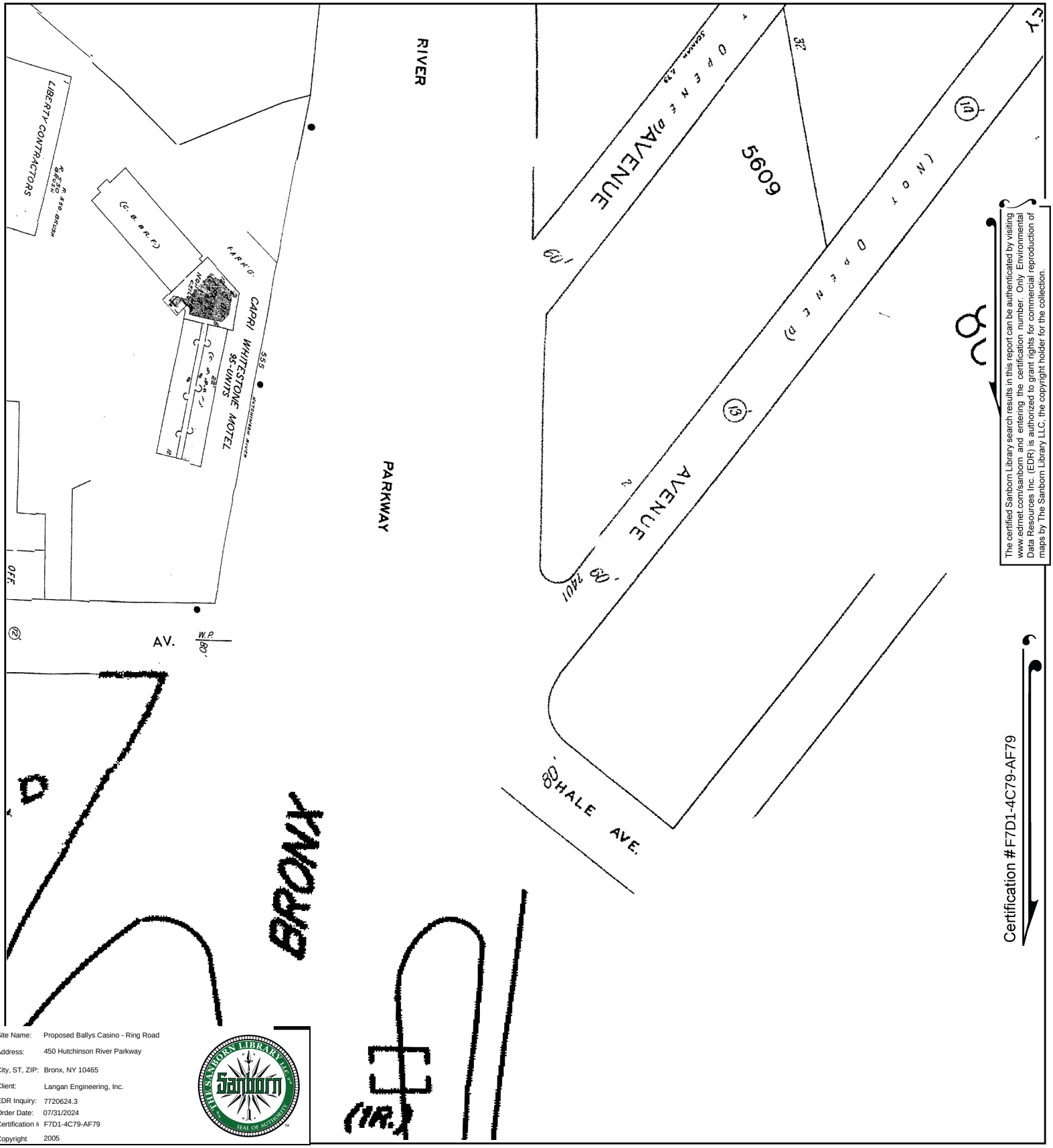

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Copyright	2005

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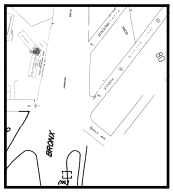

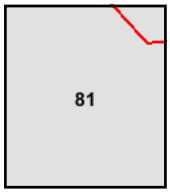

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0 Feet 150 300 600

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Certified Sanborn® Map

2004

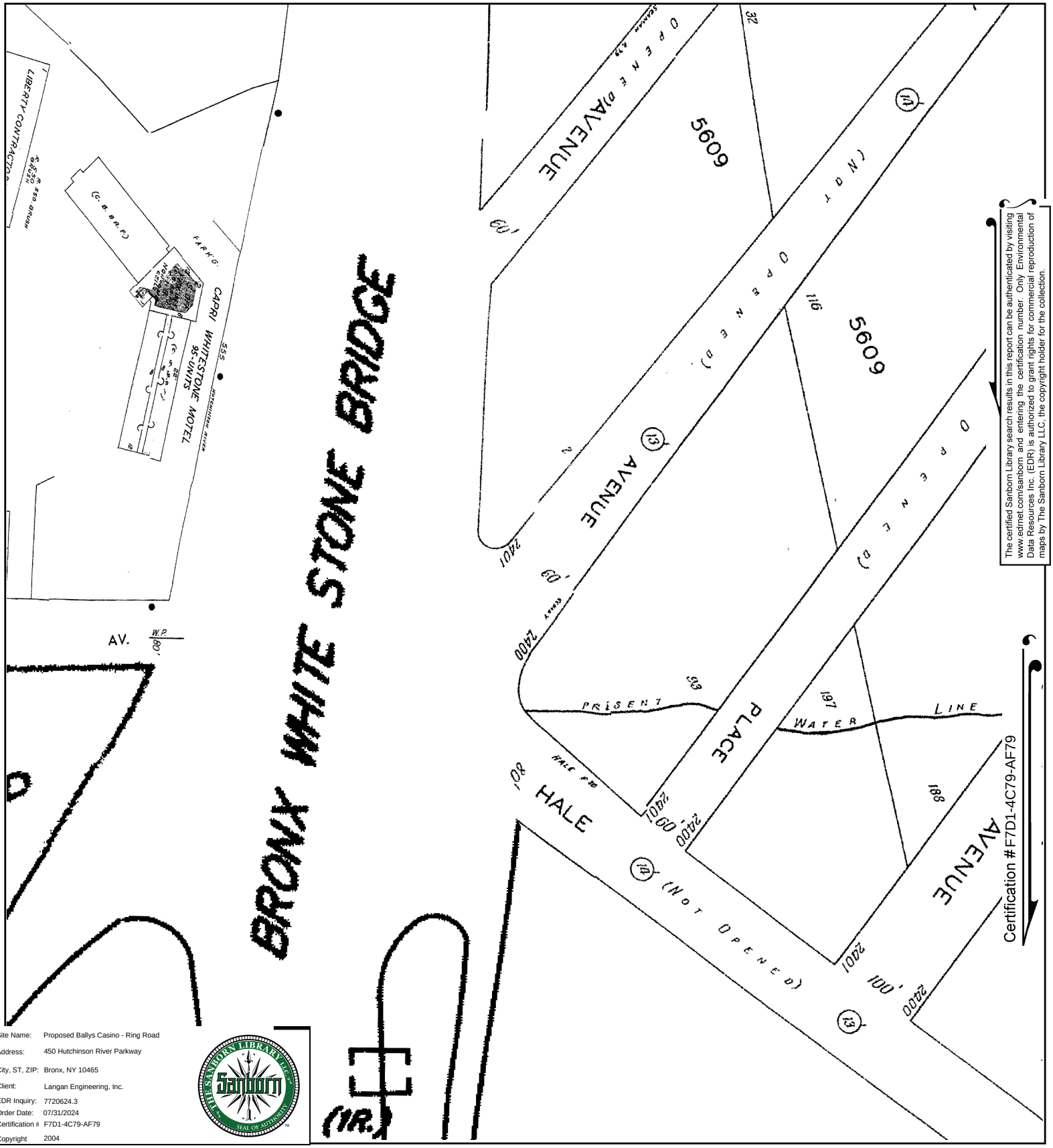

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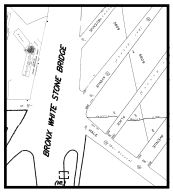

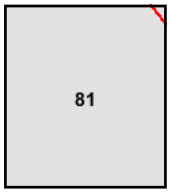

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N

Certified Sanborn® Map

2003

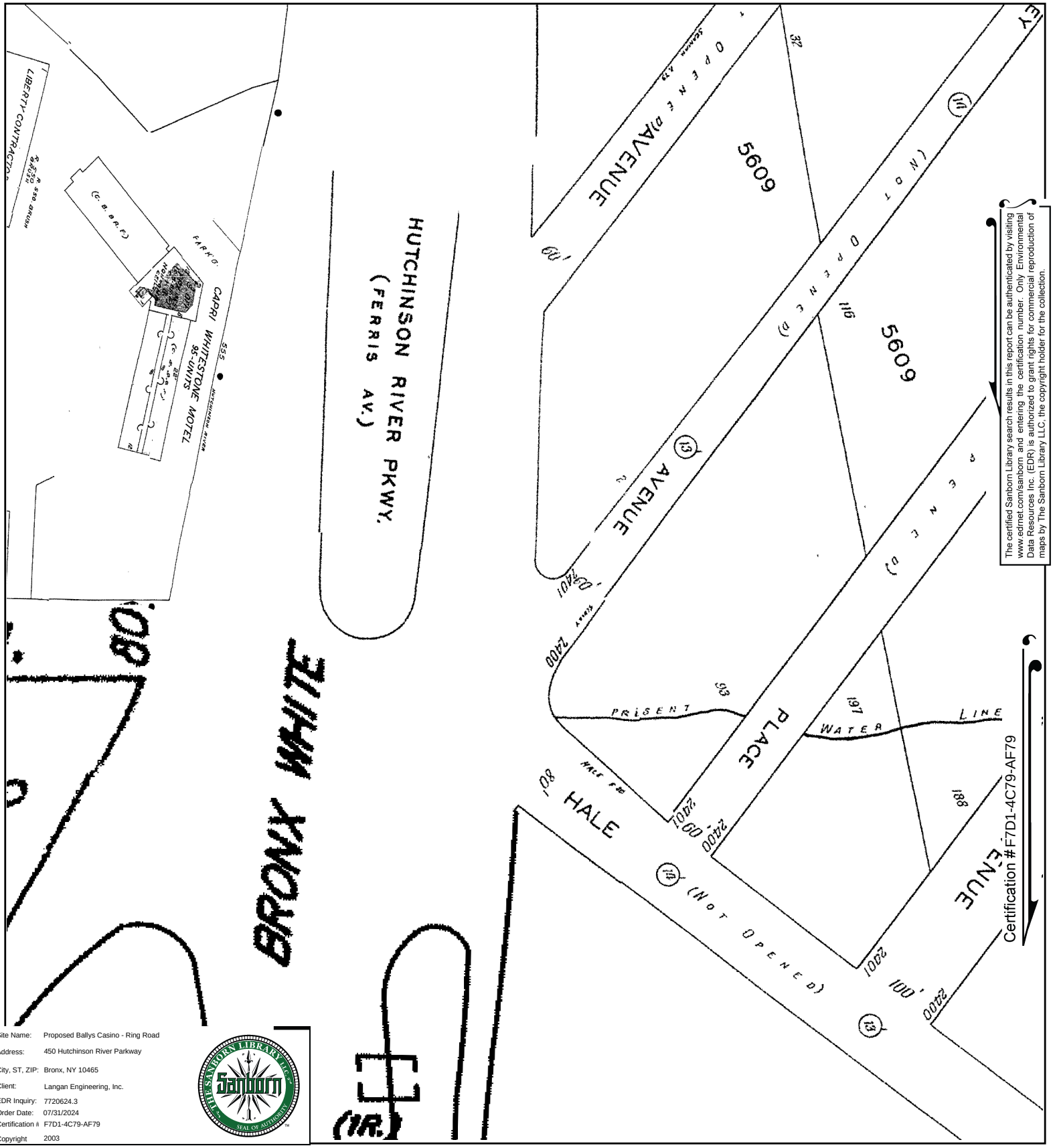

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Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
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Copyright	2003

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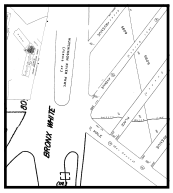

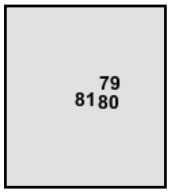

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Volume 21, Sheet 81

0 Feet 150 300 600

N

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2002

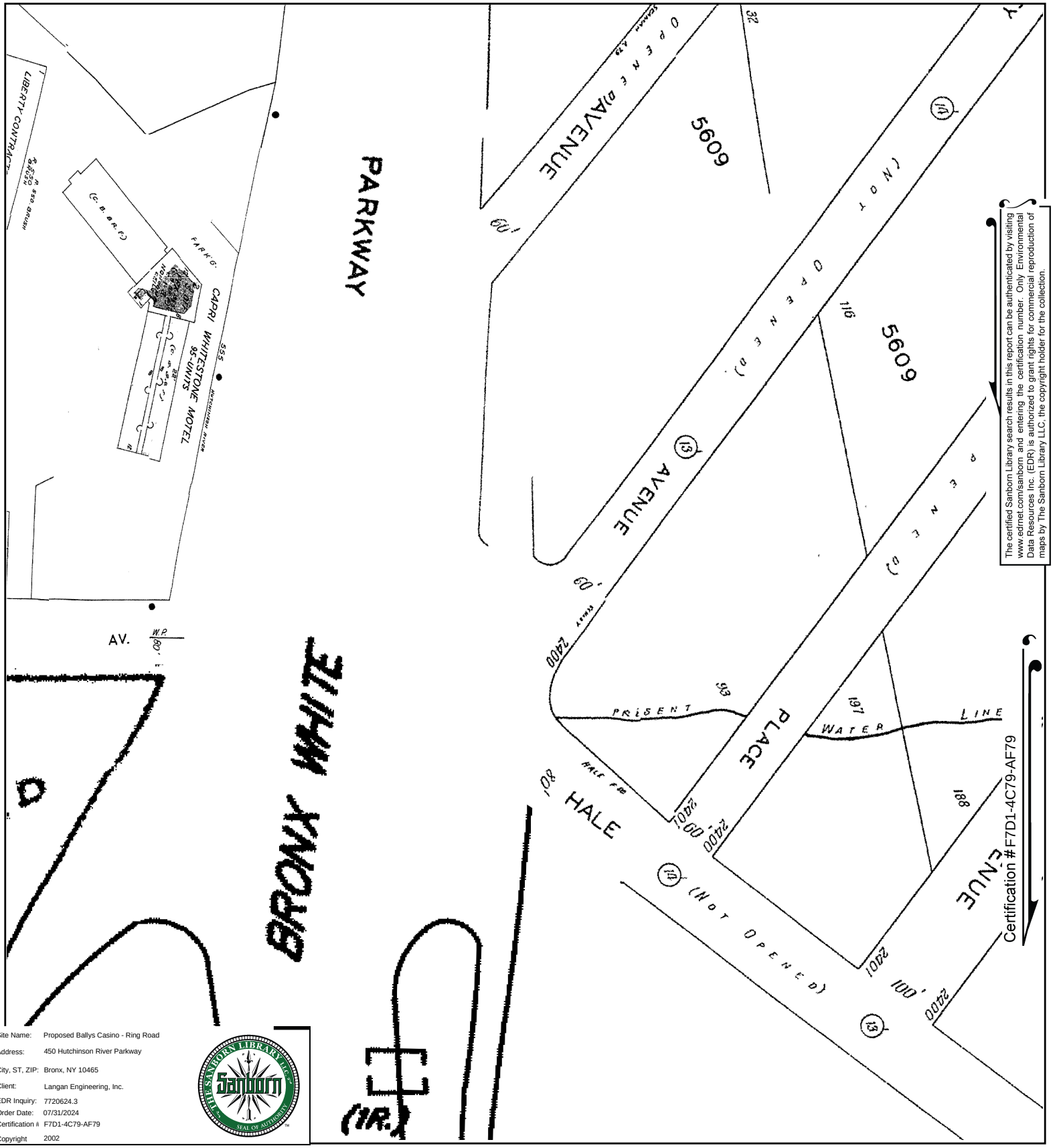

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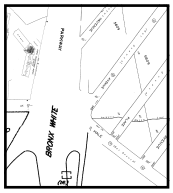

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2001

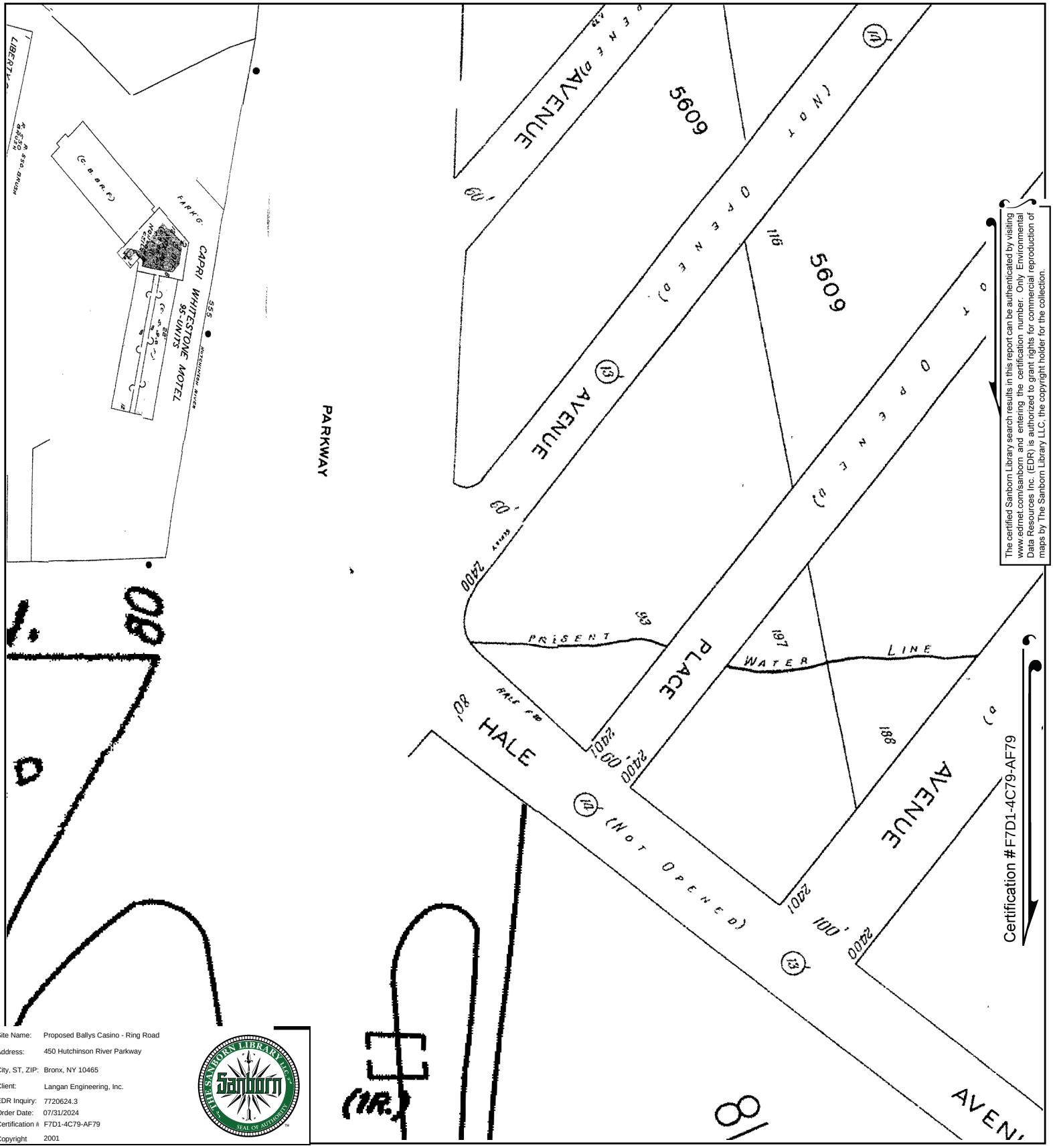

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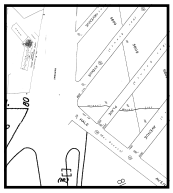

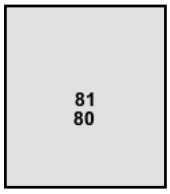

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1998

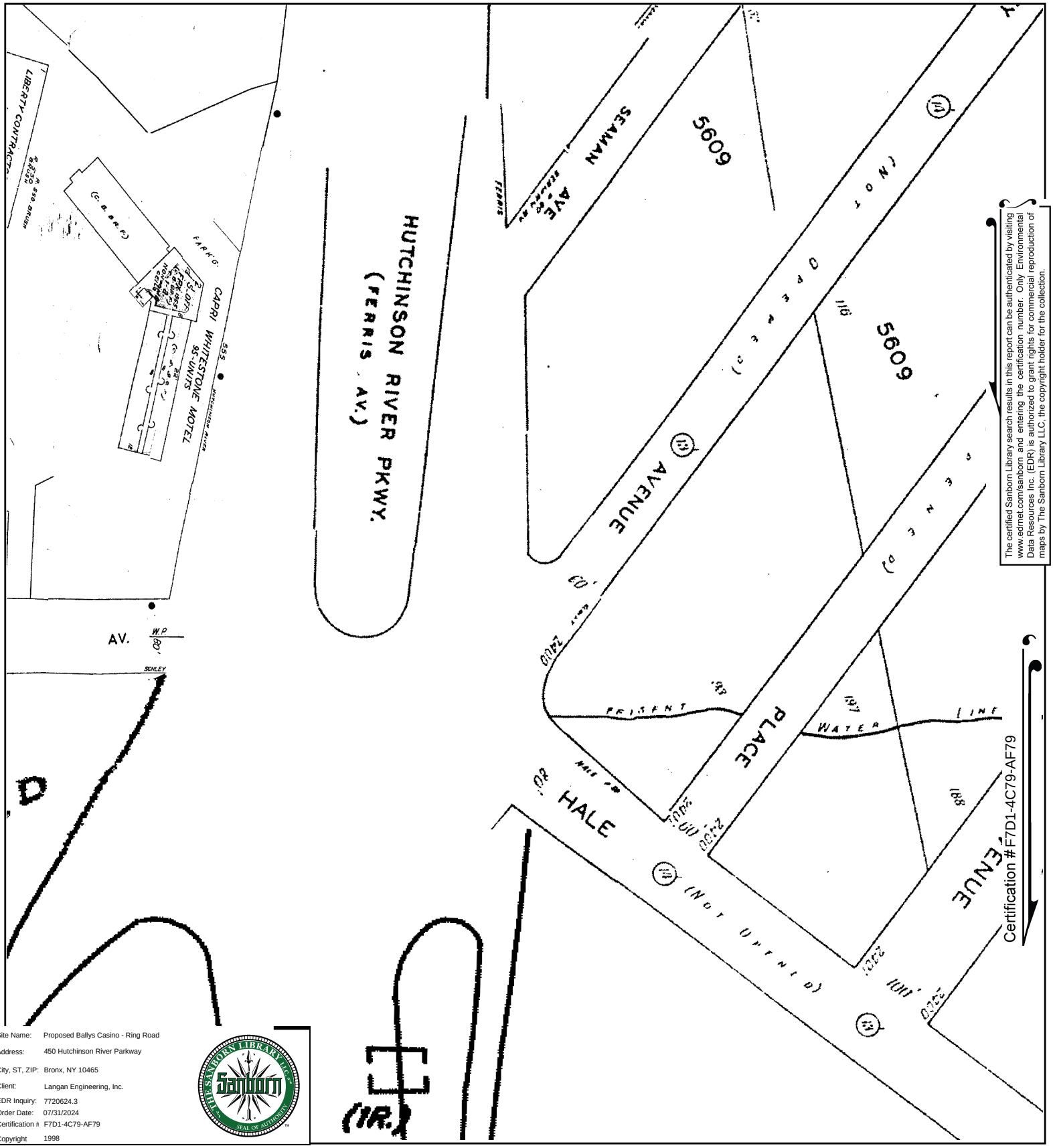

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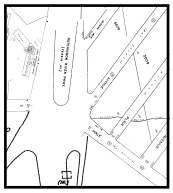

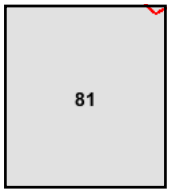

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1996

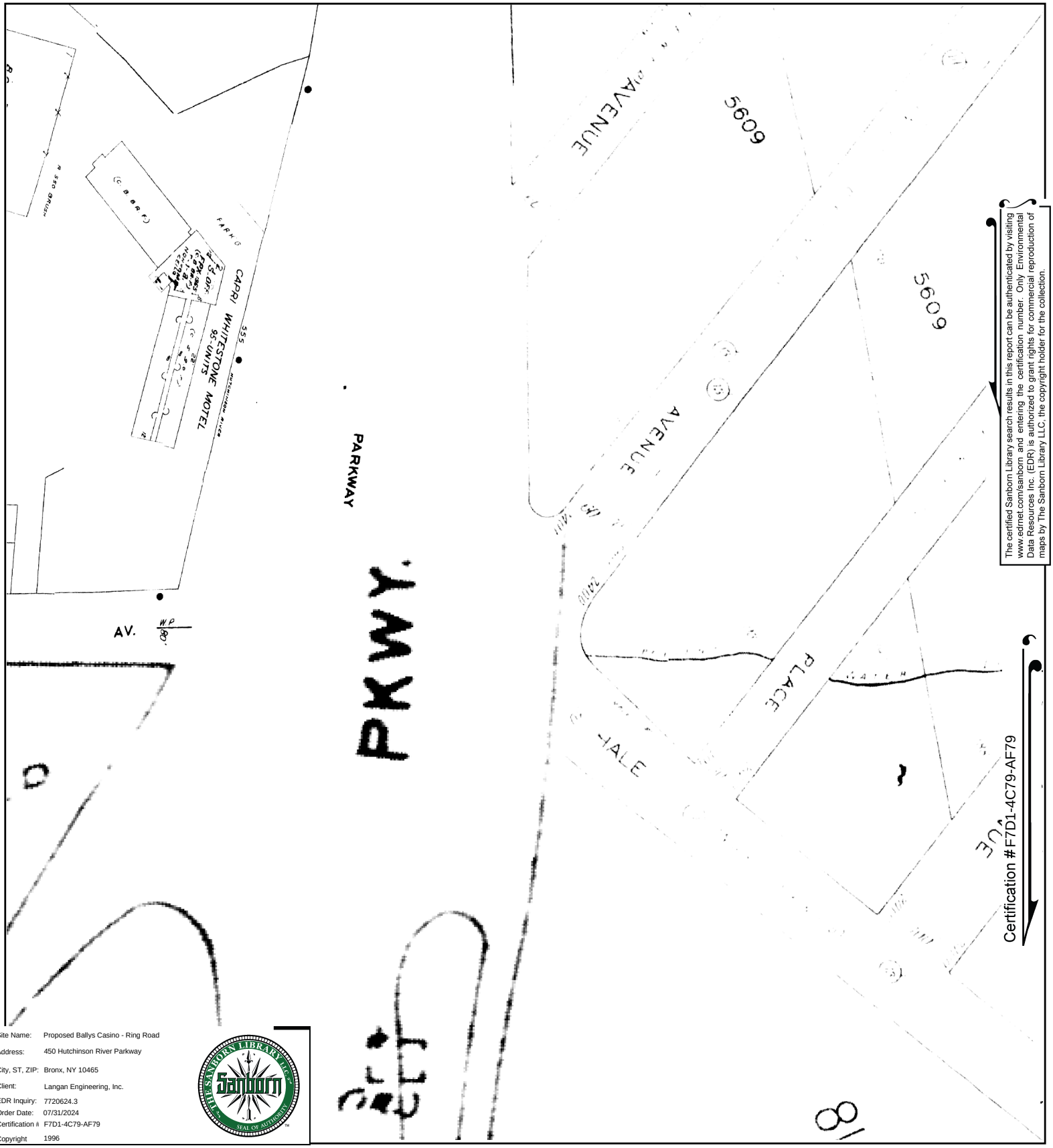

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Copyright	1996

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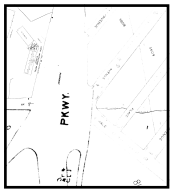

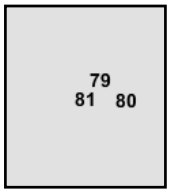

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1995

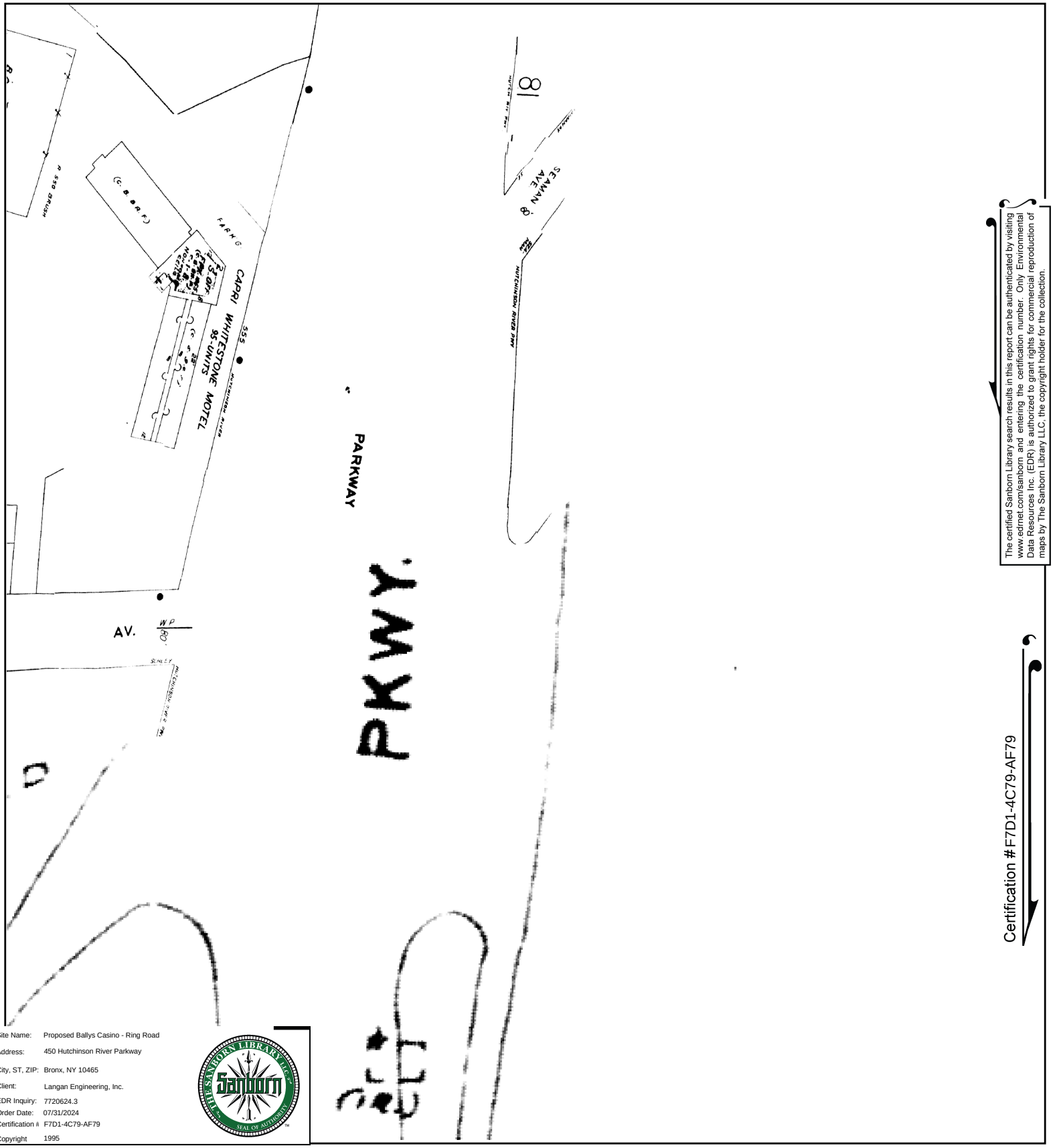

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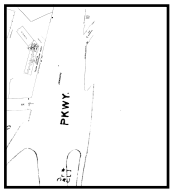

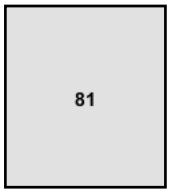

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1993

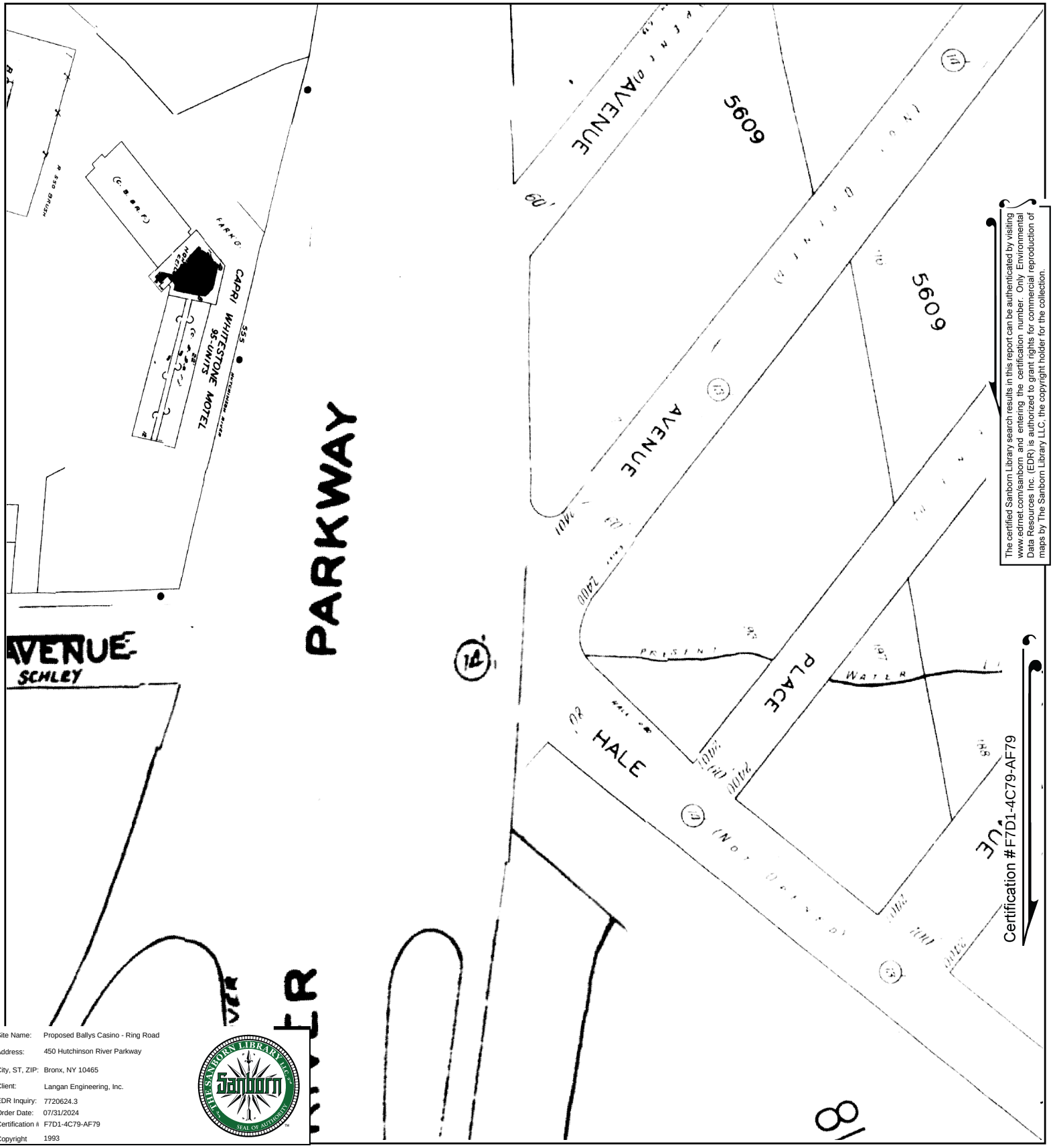

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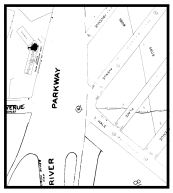

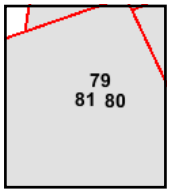

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1992

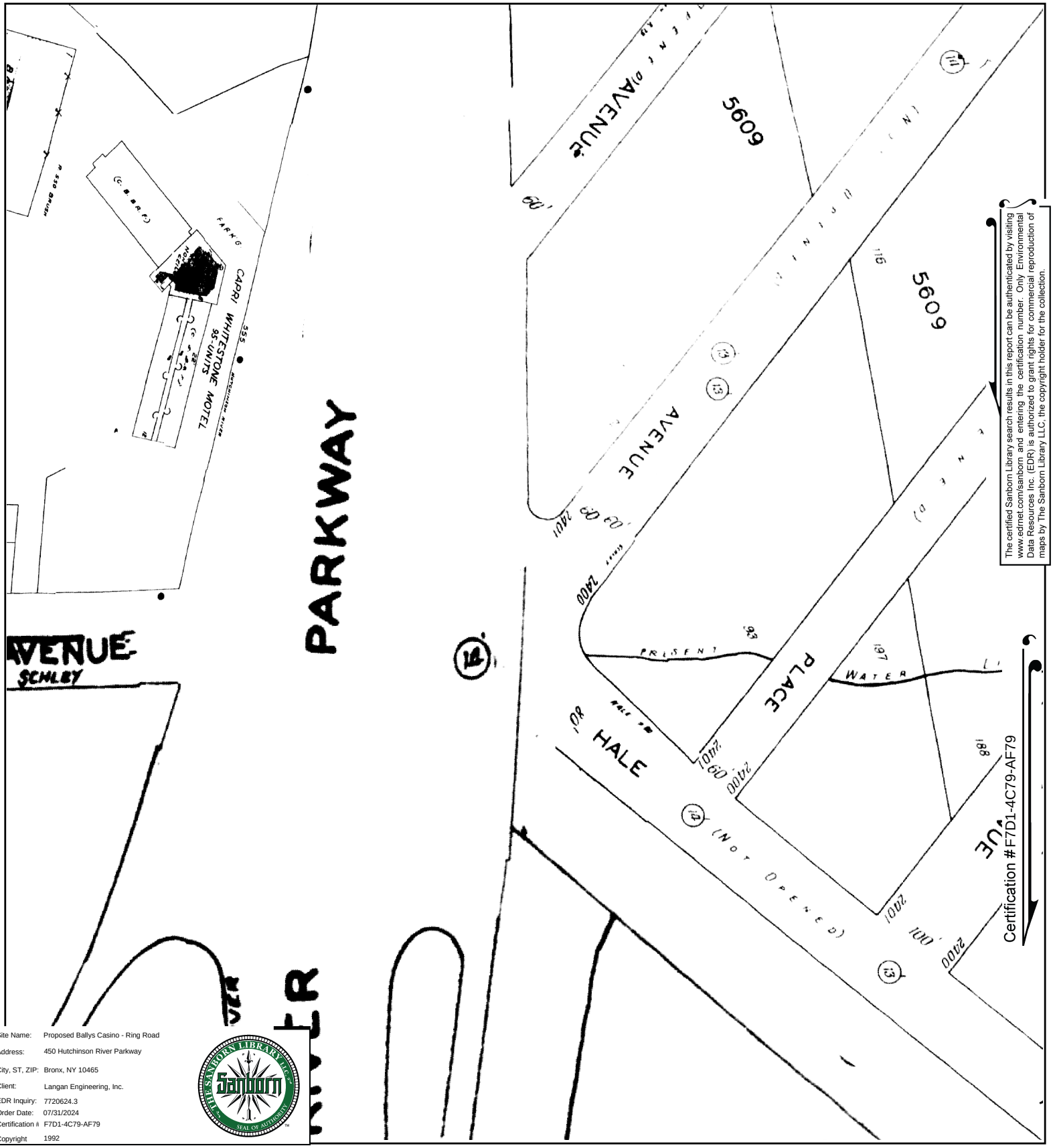

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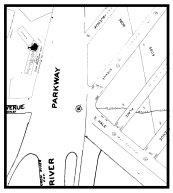

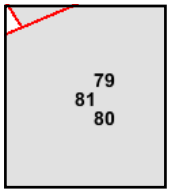

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1991

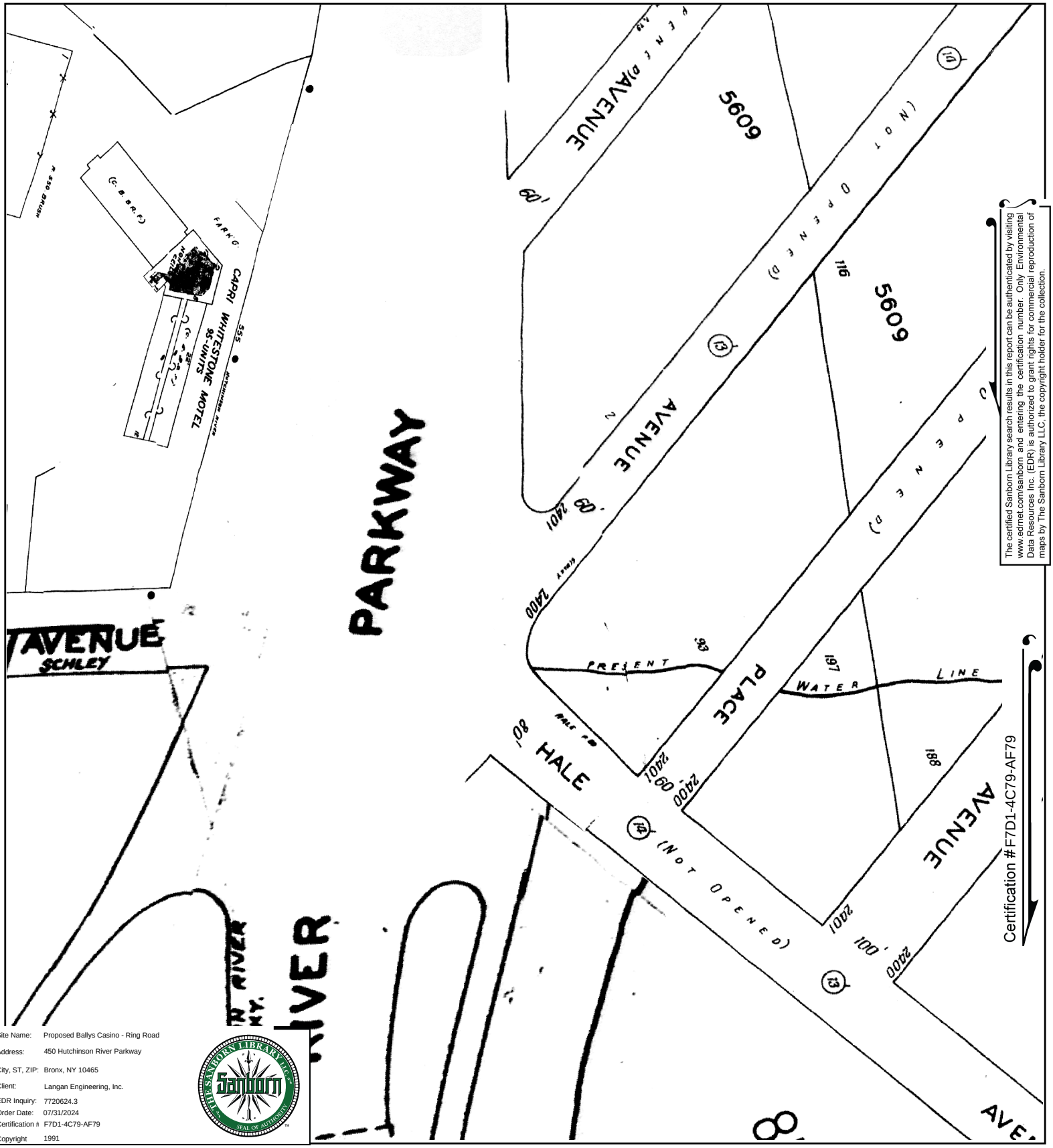

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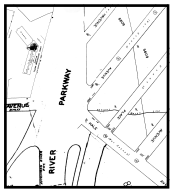

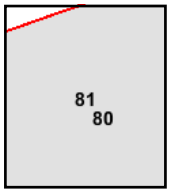

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1988

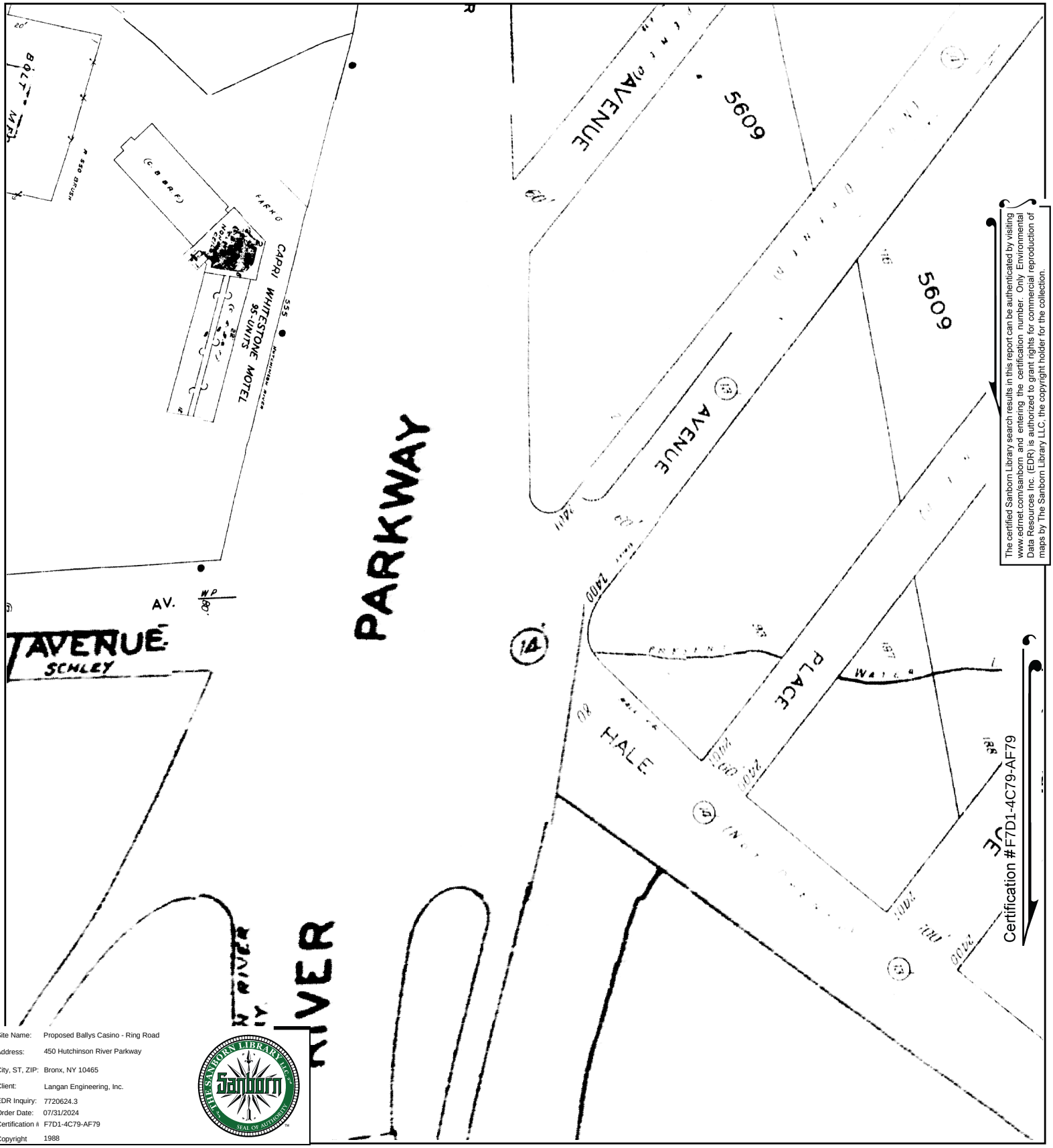

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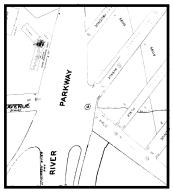

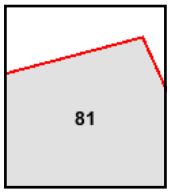

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1986

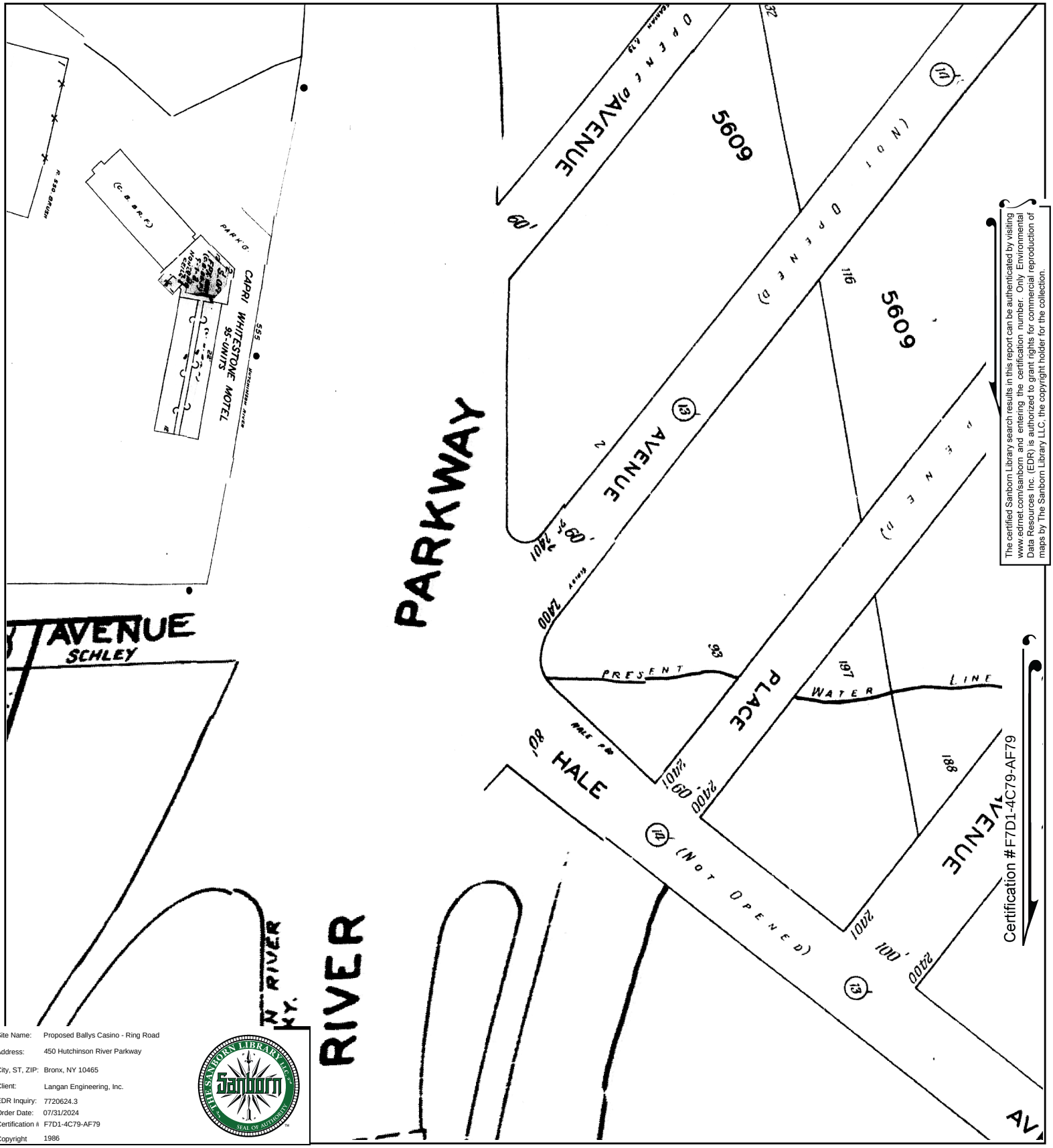

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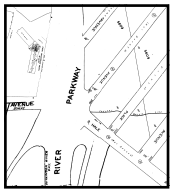

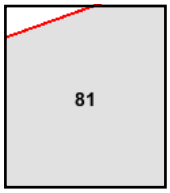

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1983

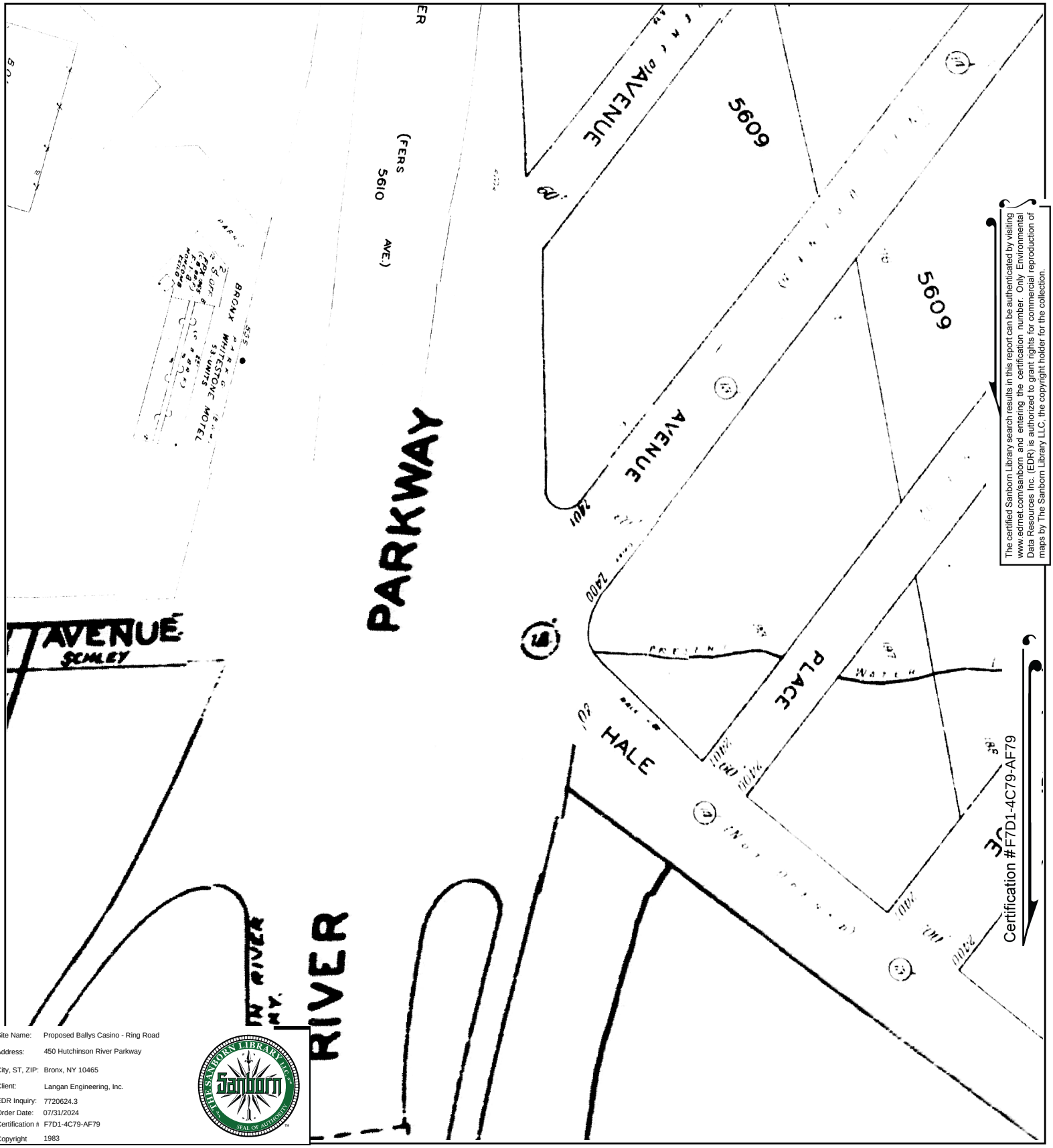

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Copyright	1983

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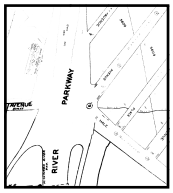

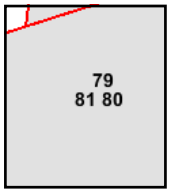

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1981

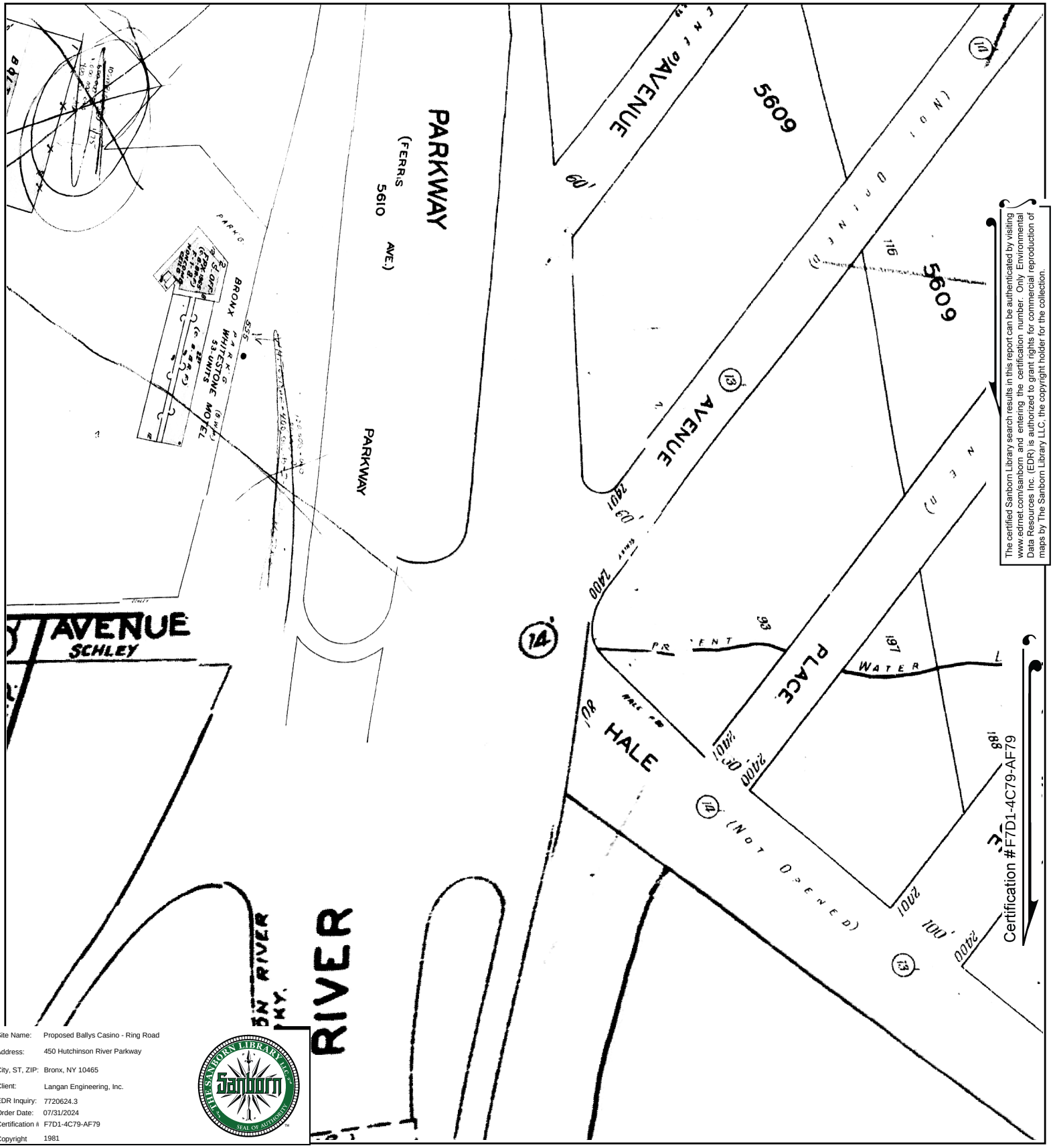

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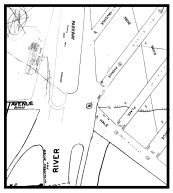

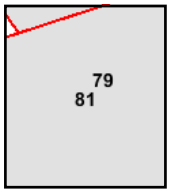

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N

Certified Sanborn® Map

1978

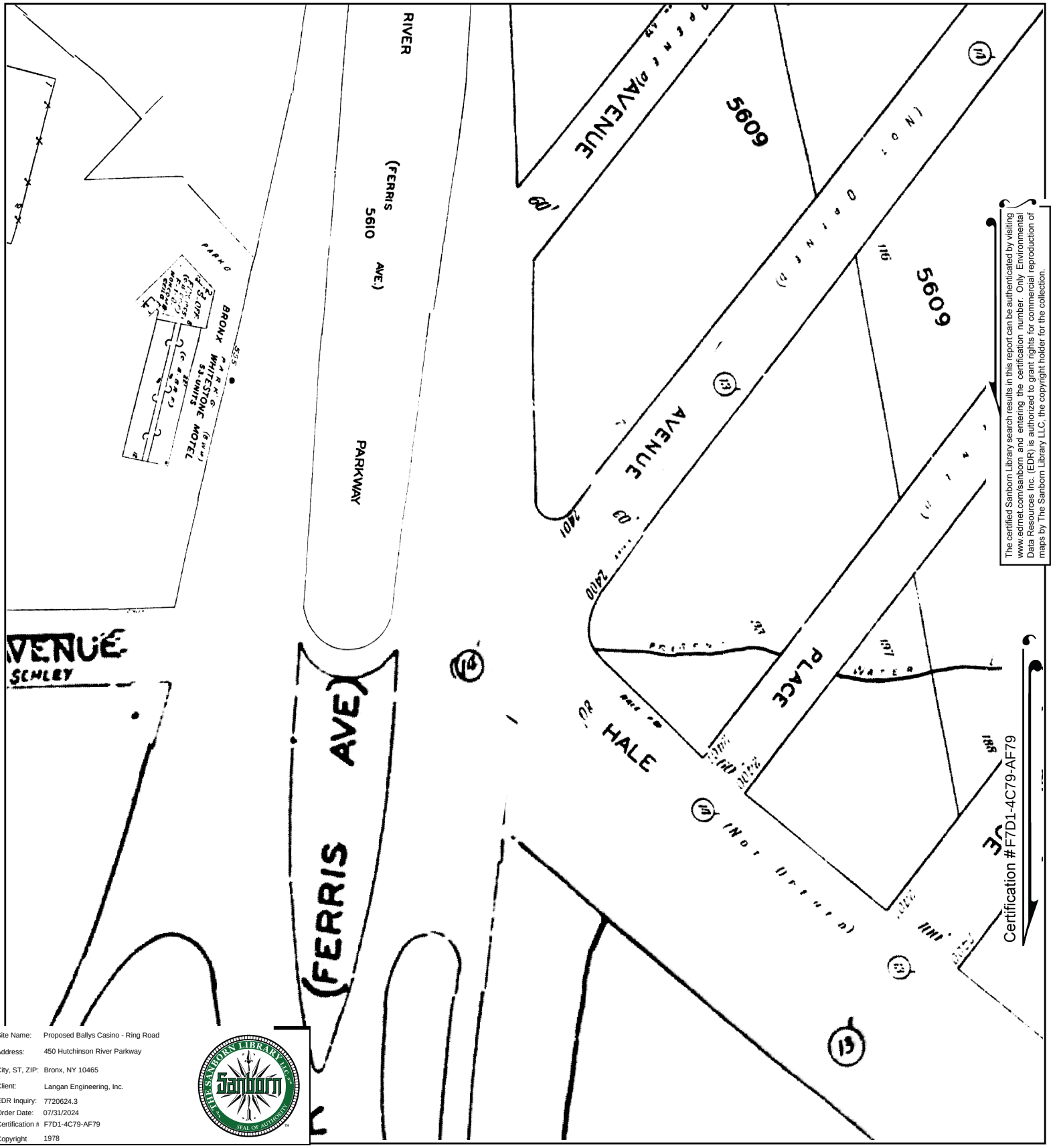

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Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1978

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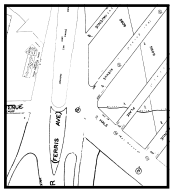

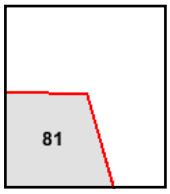

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1977

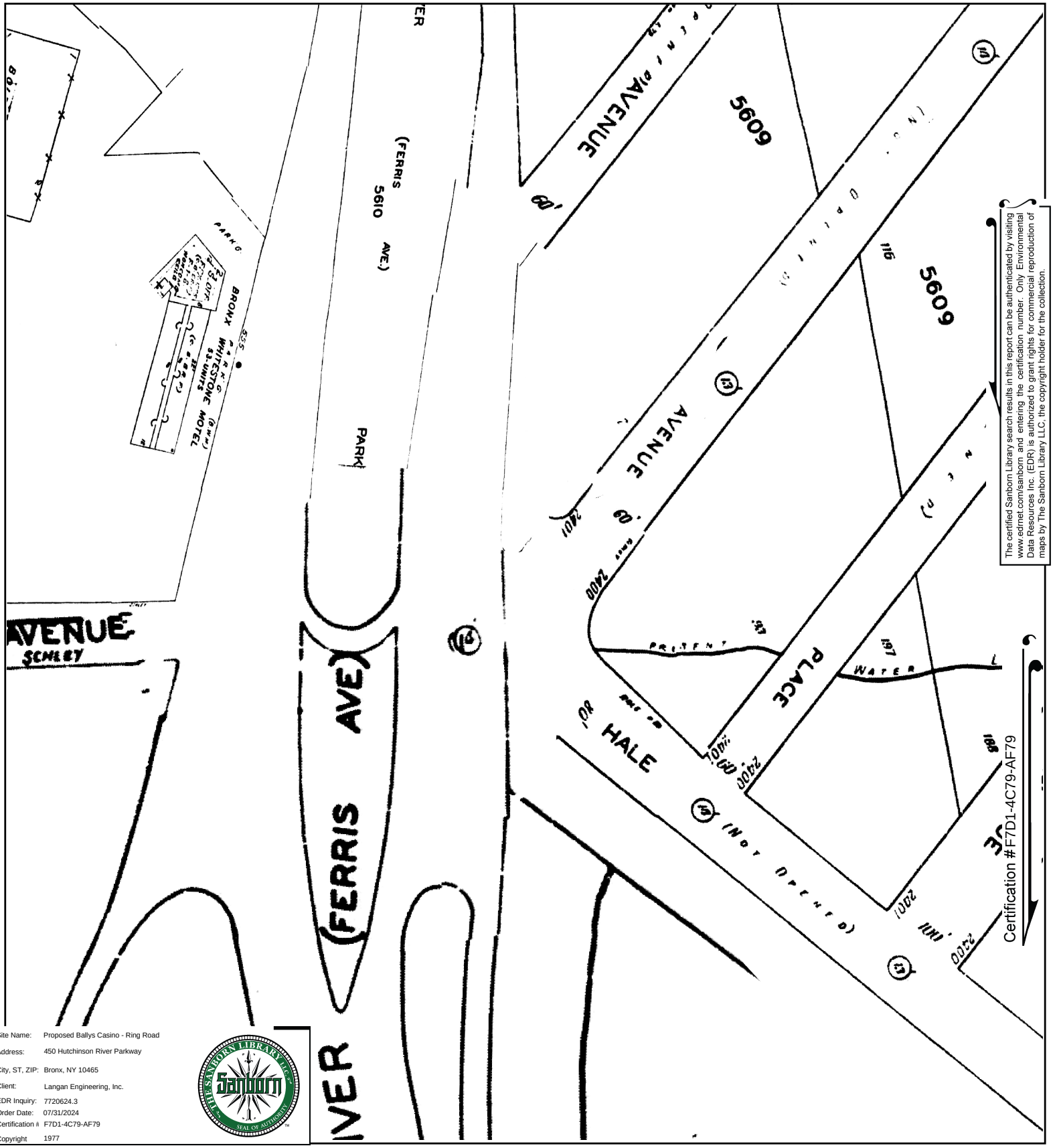

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Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1977

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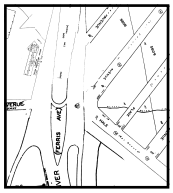

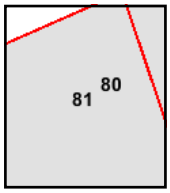

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N

Certified Sanborn® Map

1967

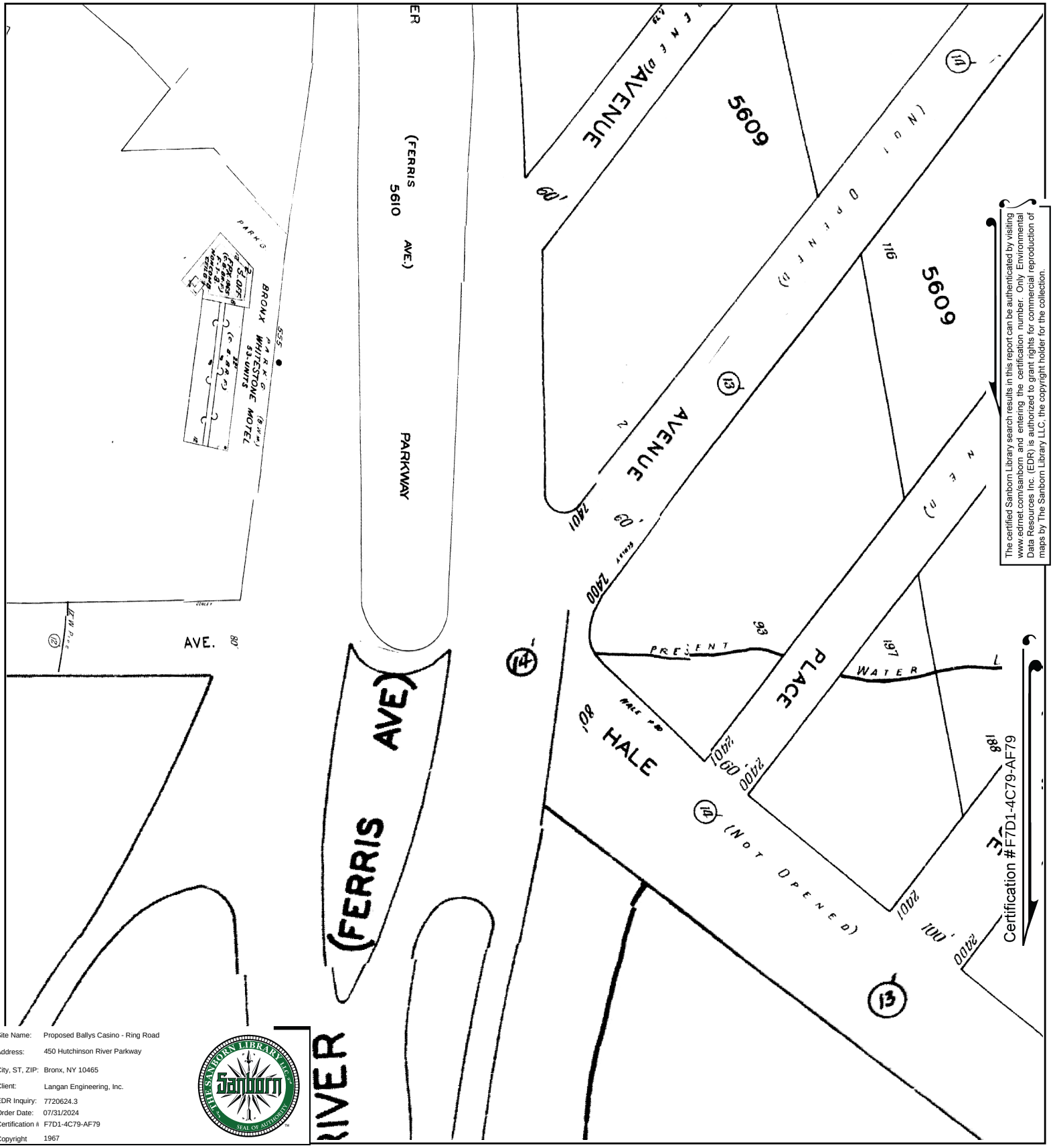

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1967

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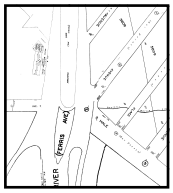

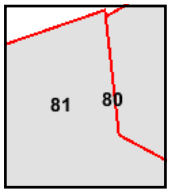

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N

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1950

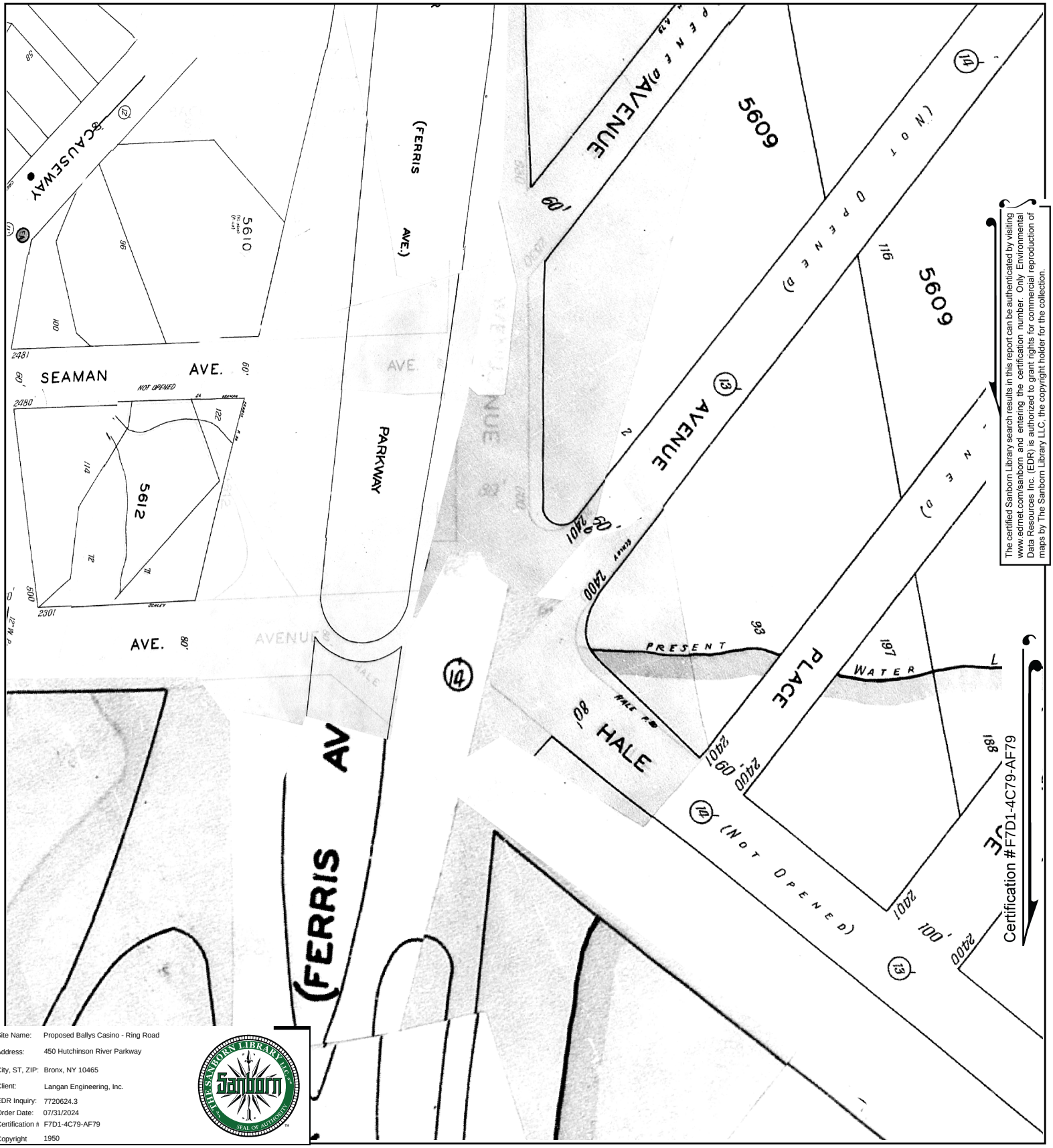

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1950

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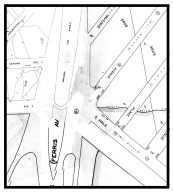

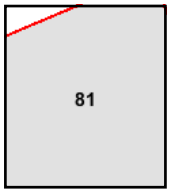

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N

Certified Sanborn® Map

1930

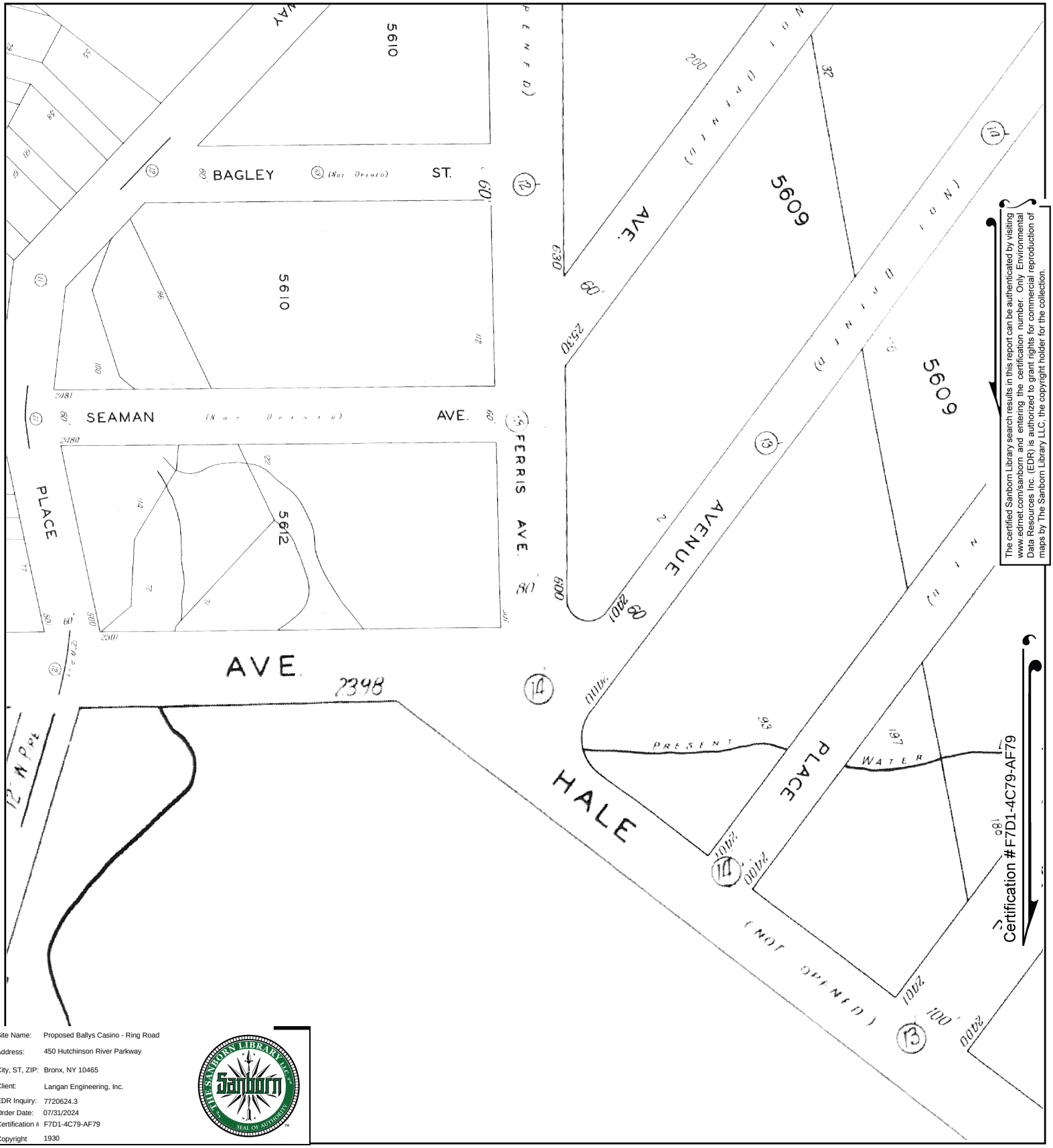

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1930

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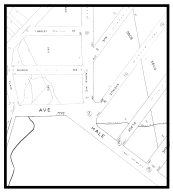

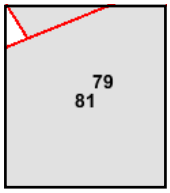

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0 Feet 150 300 600

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1919

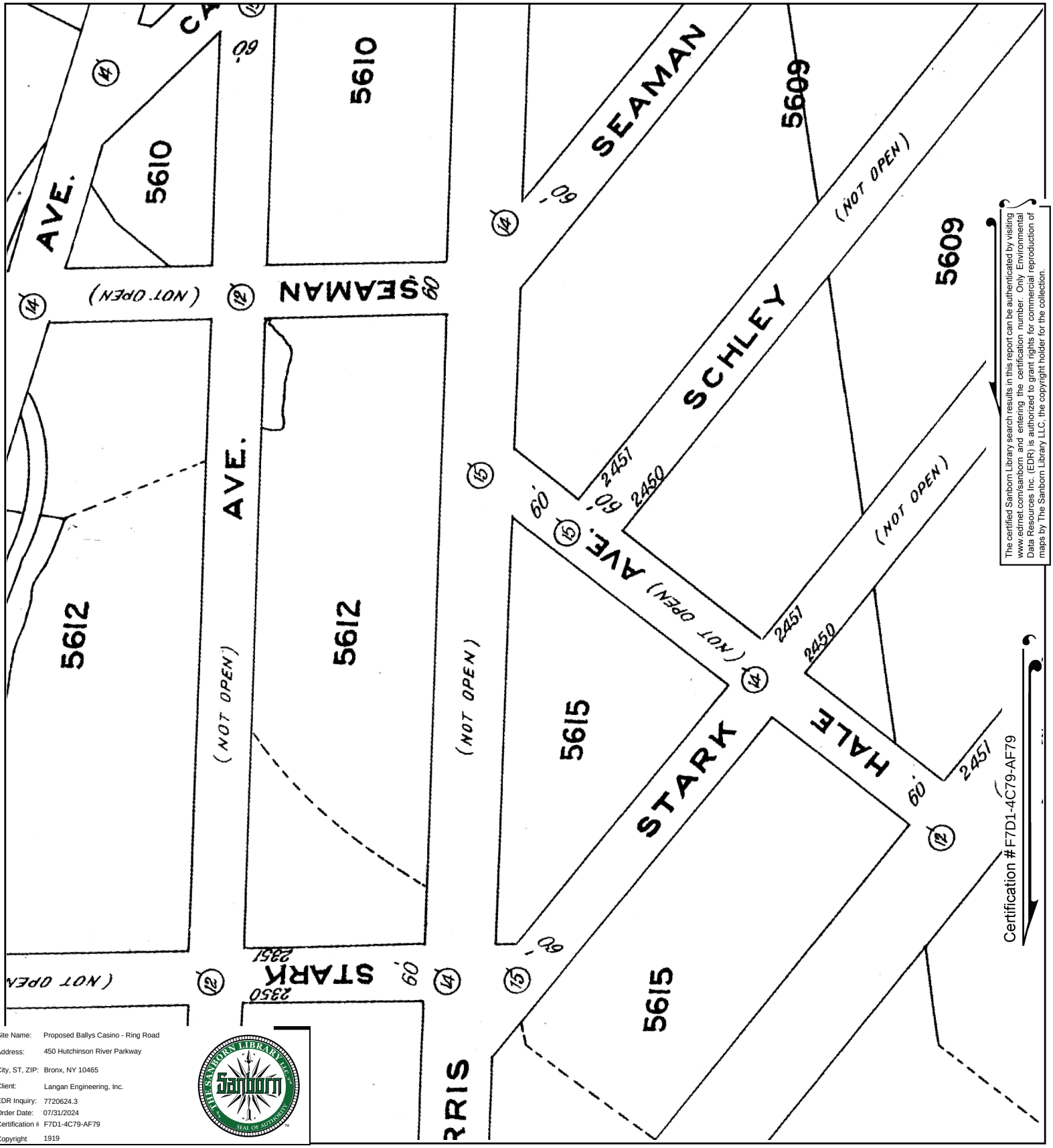

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Certification # F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1919

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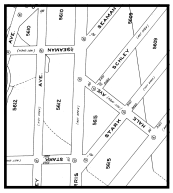

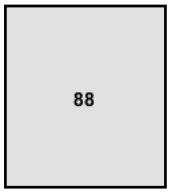

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N

Certified Sanborn® Map

1908

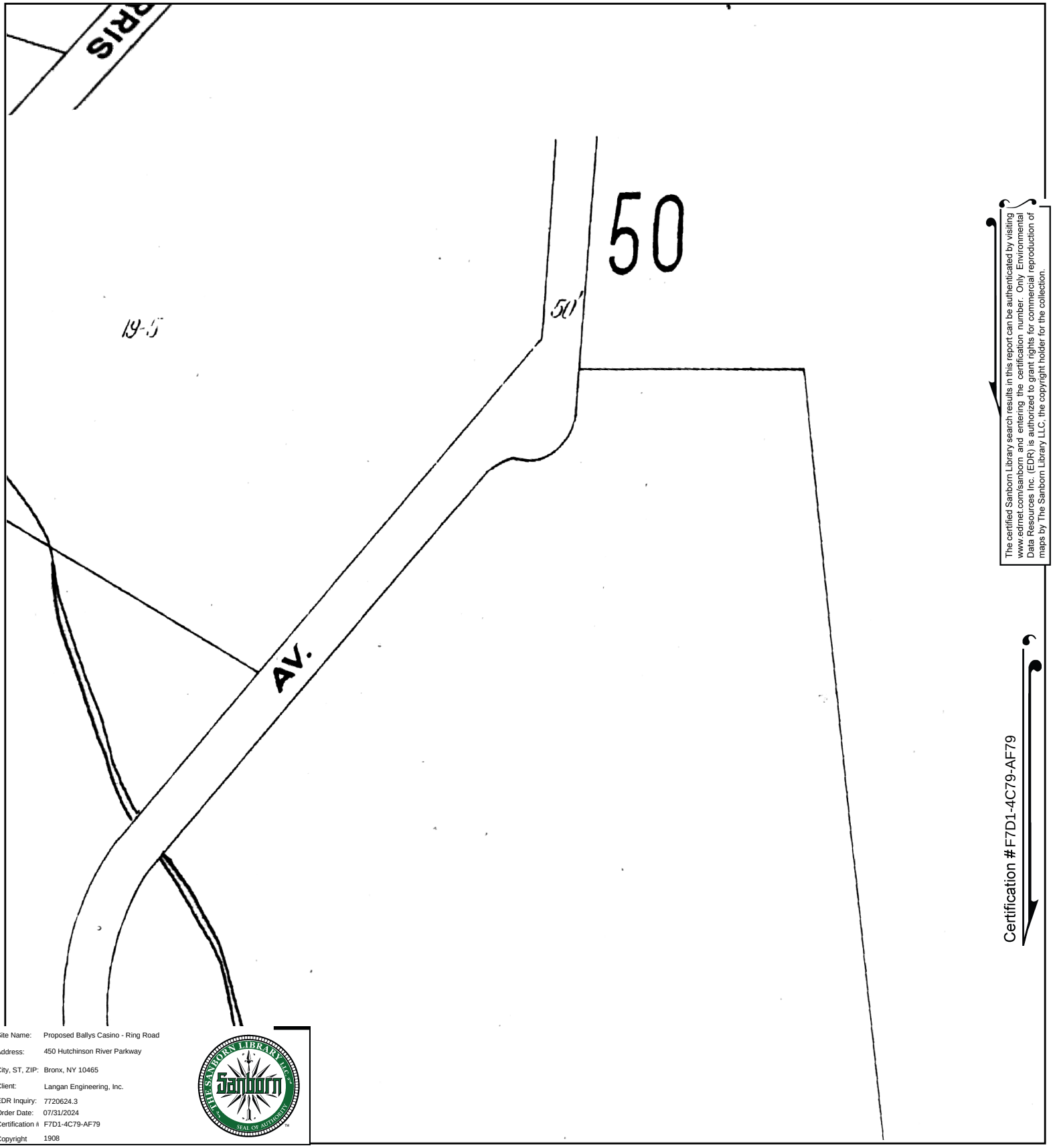

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Certification #F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1908

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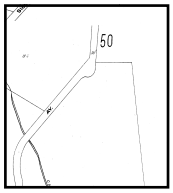

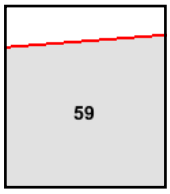

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N

Certified Sanborn® Map

1898

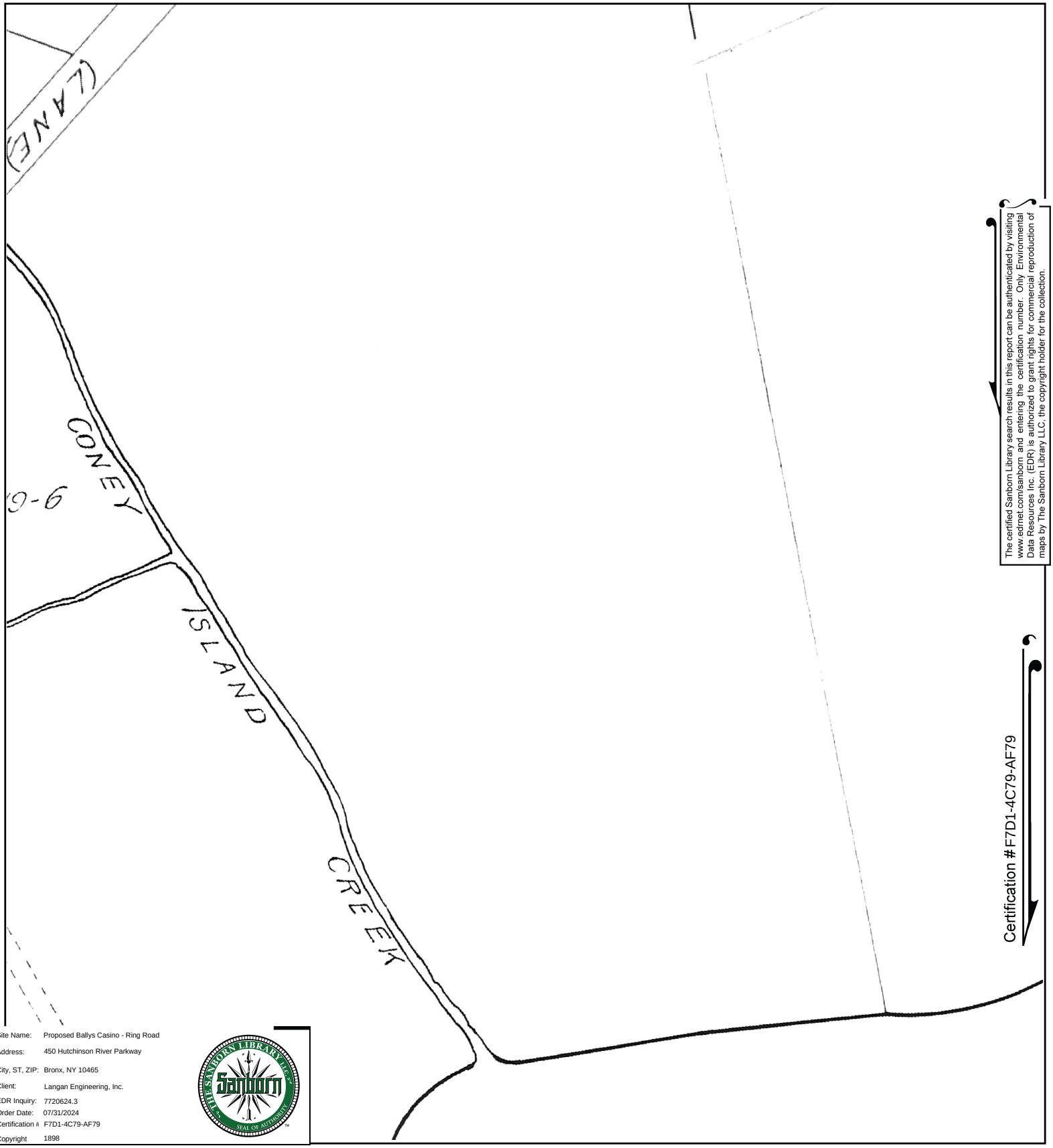

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1898

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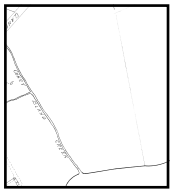

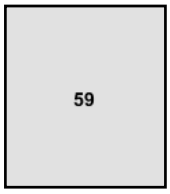

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N

Proposed Ballys Casino - Ring Road

450 Hutchinson River Parkway

Bronx, NY 10465

Inquiry Number: 7720624.3

July 31, 2024

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

07/31/24

Site Name:	Client Name:
Proposed Ballys Casino - Ring	Langan Engineering, Inc.
450 Hutchinson River Parkway	360 W. 31st Street
Bronx, NY 10465	New York, NY 10001
EDR Inquiry # 7720624.3	Contact: Kaitlyn Gioia

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Certified Sanborn Results:

Certification # F7D1-4C79-AF79

PO # 170773001

Project Prpsd Bally s Casino - Ring Rd

Maps Provided:

2007	1996	1981	1898
2006	1995	1978	
2005	1993	1977	
2004	1992	1967	
2003	1991	1950	
2002	1988	1930	
2001	1986	1919	
1998	1983	1908	

Sanborn® Library search results

Certification #: F7D1-4C79-AF79

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- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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Sanborn Sheet Key

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2007 Source Sheets

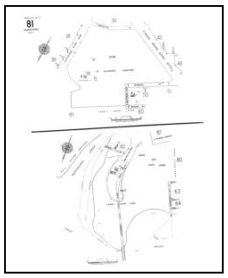

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2007

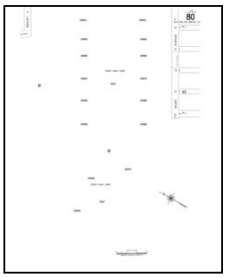

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2007

2006 Source Sheets

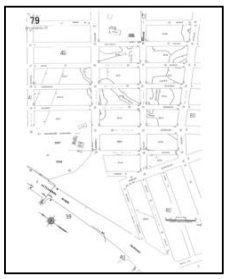

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2006

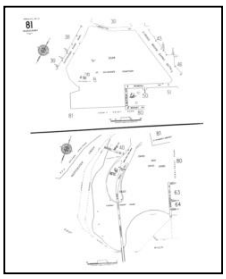

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2006

2005 Source Sheets

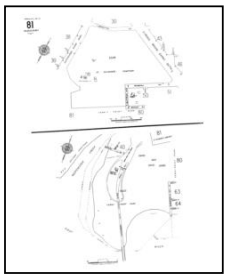

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2005

2004 Source Sheets

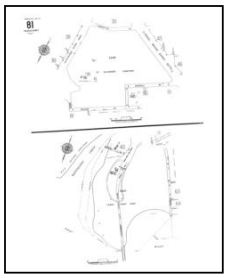

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2004

Sanborn Sheet Key

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2003 Source Sheets

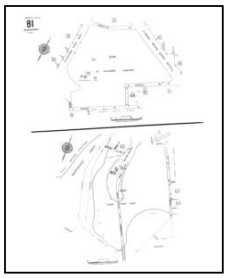

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2003

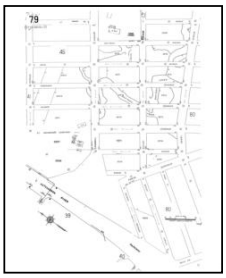

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2003

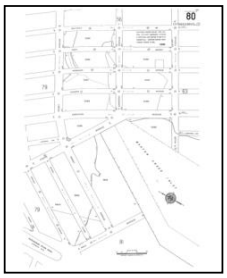

Volume 21, Sheet 80
2003

2002 Source Sheets

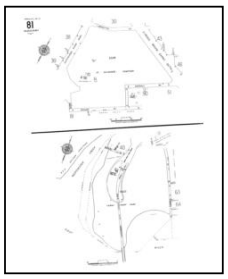

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2002

2001 Source Sheets

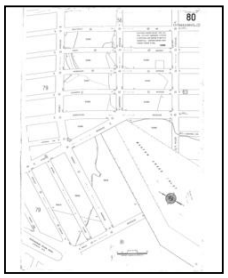

Volume 21, Sheet 80
2001

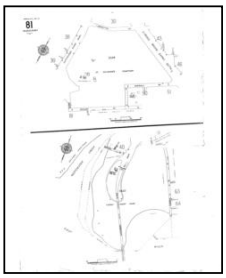

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2001

1998 Source Sheets

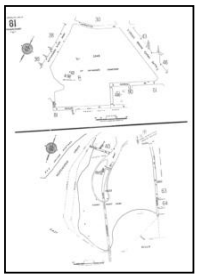

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1998

Sanborn Sheet Key

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1996 Source Sheets

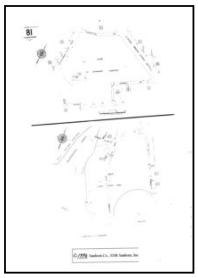

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1996

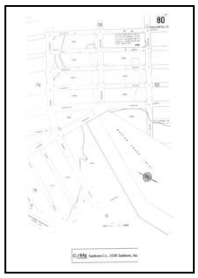

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1996

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1996

1995 Source Sheets

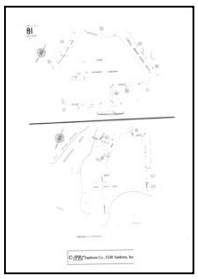

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1995

1993 Source Sheets

Volume 21, Sheet 81
1993

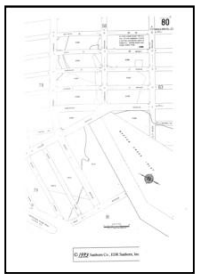

Volume 21, Sheet 80
1993

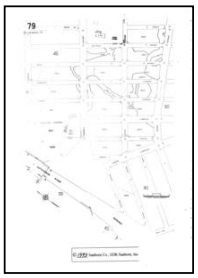

Volume 21, Sheet 79
1993

1992 Source Sheets

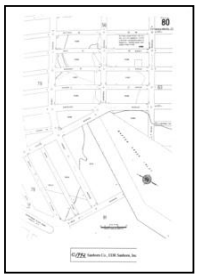

Volume 21, Sheet 80
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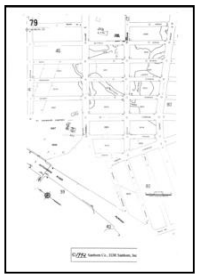

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1992

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1992

Sanborn Sheet Key

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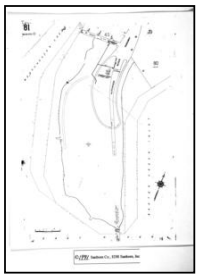

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1991

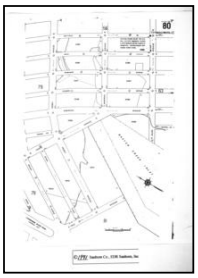

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1991

1988 Source Sheets

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1988

1986 Source Sheets

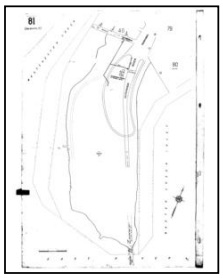

Volume 21, Sheet 81
1986

1983 Source Sheets

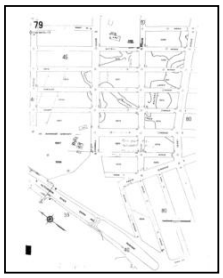

Volume 21, Sheet 79
1983

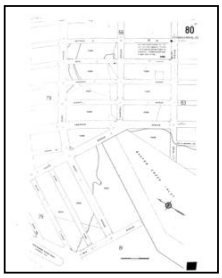

Volume 21, Sheet 80
1983

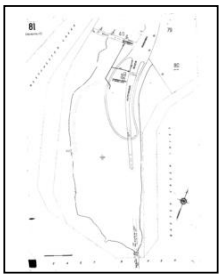

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1983

Sanborn Sheet Key

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1981 Source Sheets

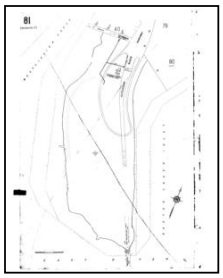

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1981

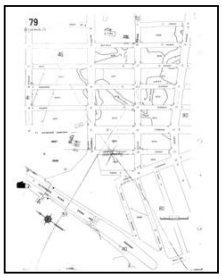

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1981

1978 Source Sheets

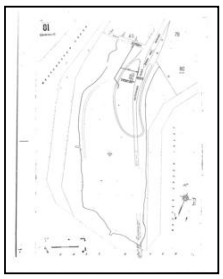

Volume 21, Sheet 81
1978

1977 Source Sheets

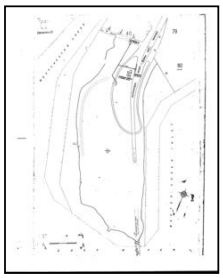

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1977

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1977

1967 Source Sheets

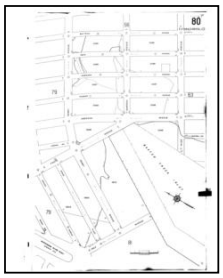

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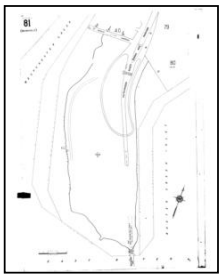

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1967

Sanborn Sheet Key

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1950 Source Sheets

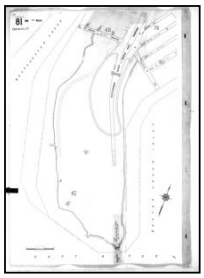

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1950

1930 Source Sheets

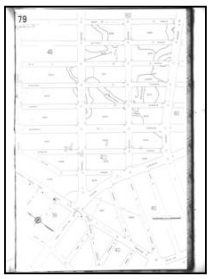

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1930

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1930

1919 Source Sheets

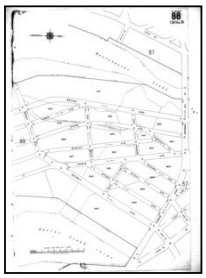

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1919

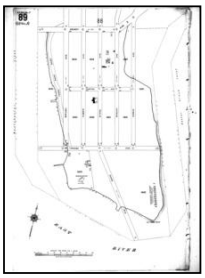

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1919

1908 Source Sheets

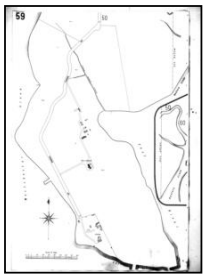

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1908

Sanborn Sheet Key

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1898 Source Sheets

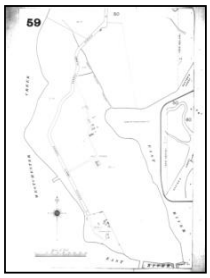

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1898

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2007

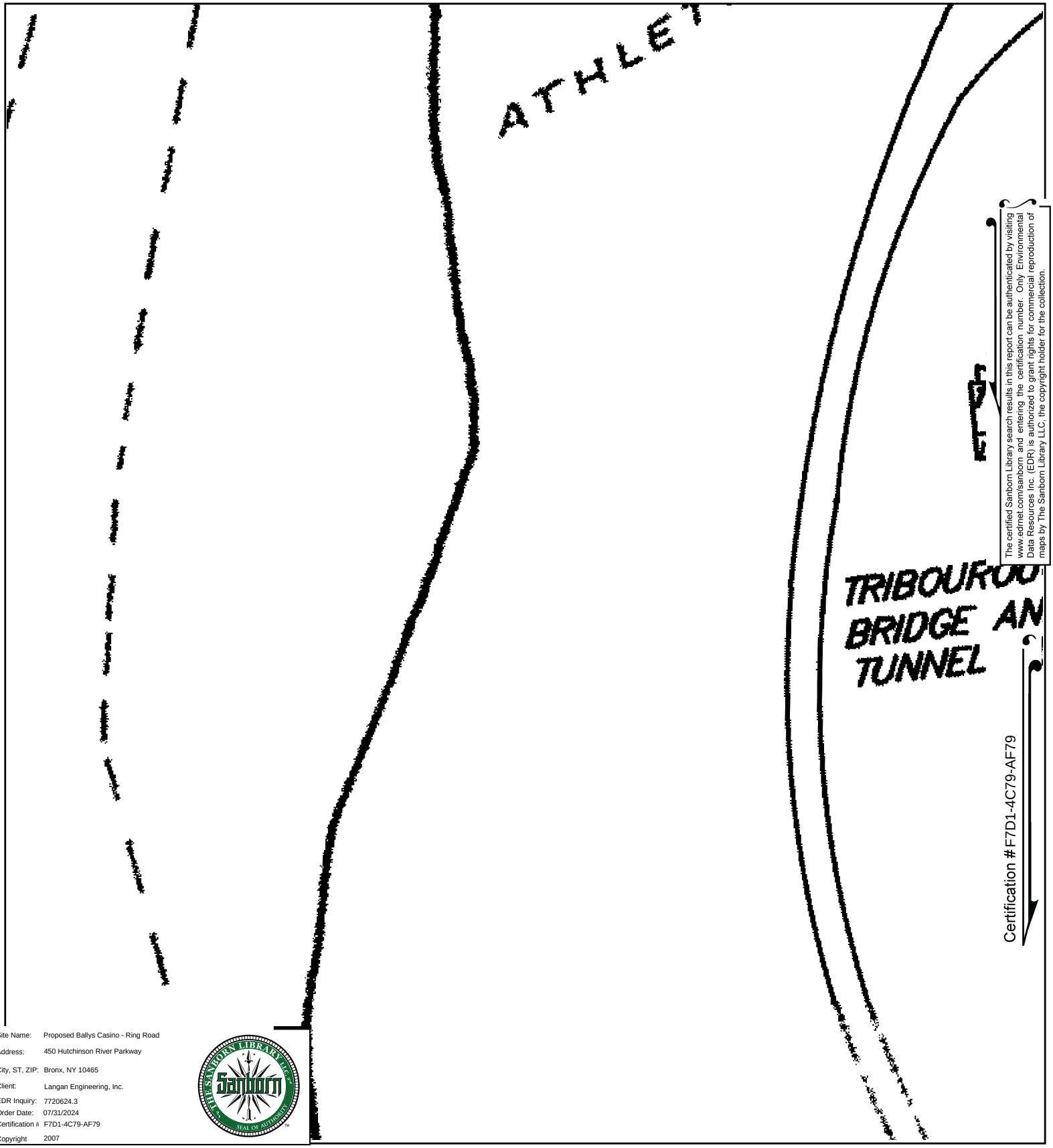

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	2007

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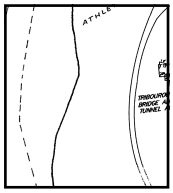

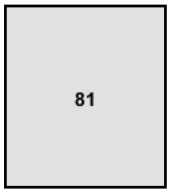

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N

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2006

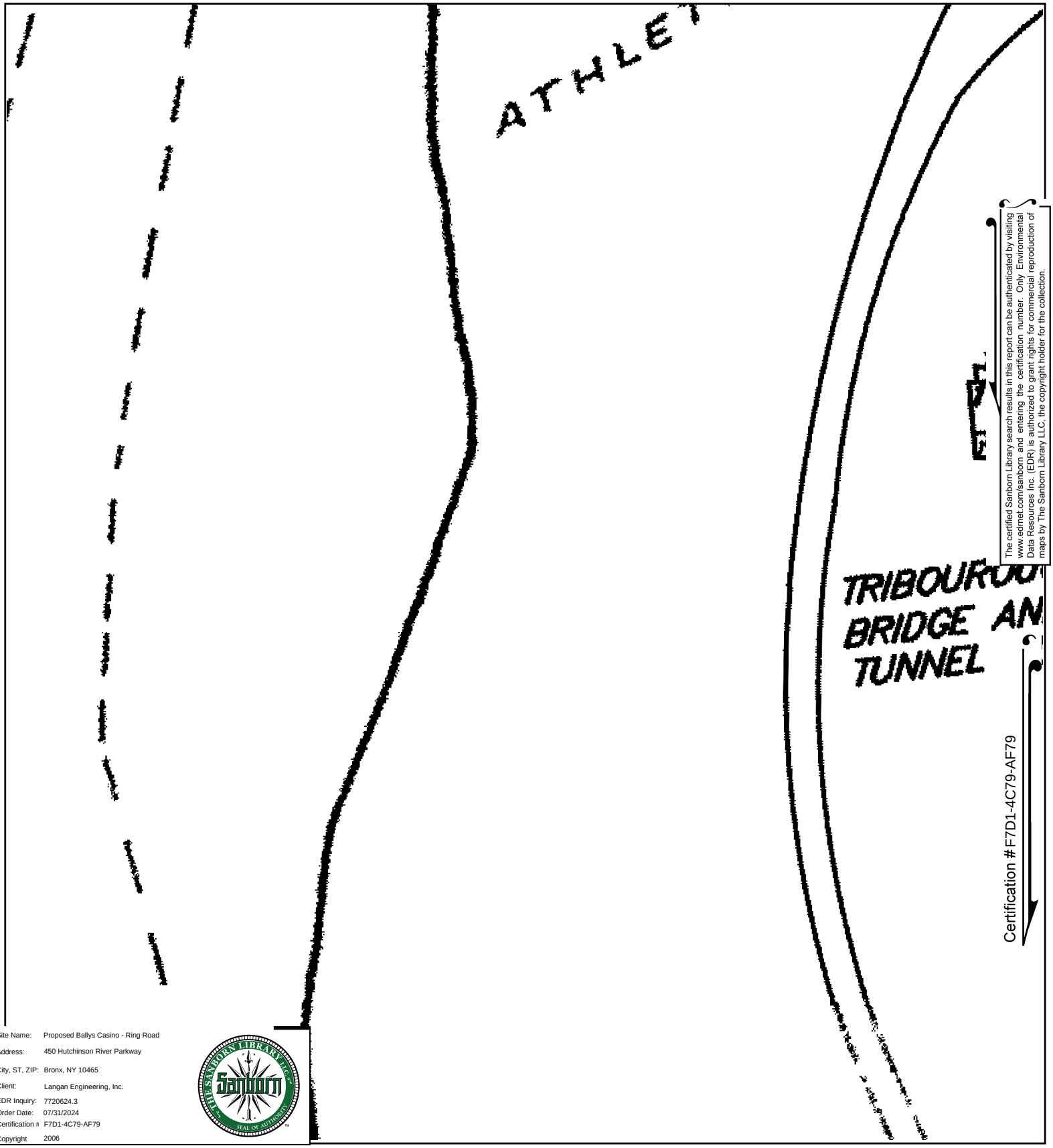

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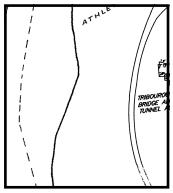

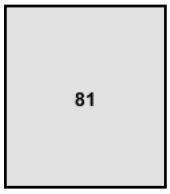

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N

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2005

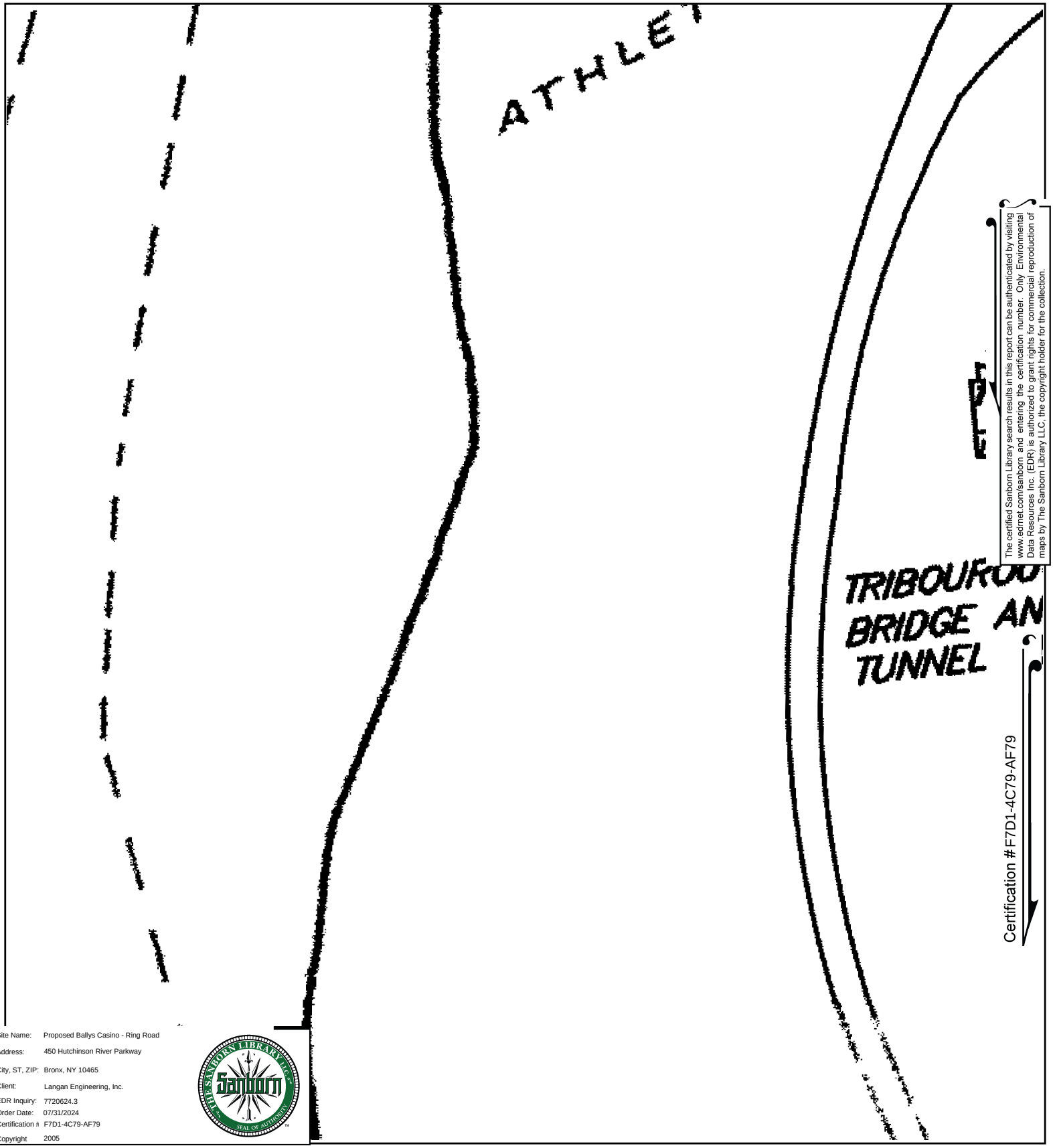

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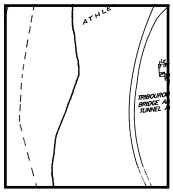

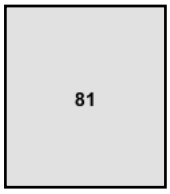

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2004

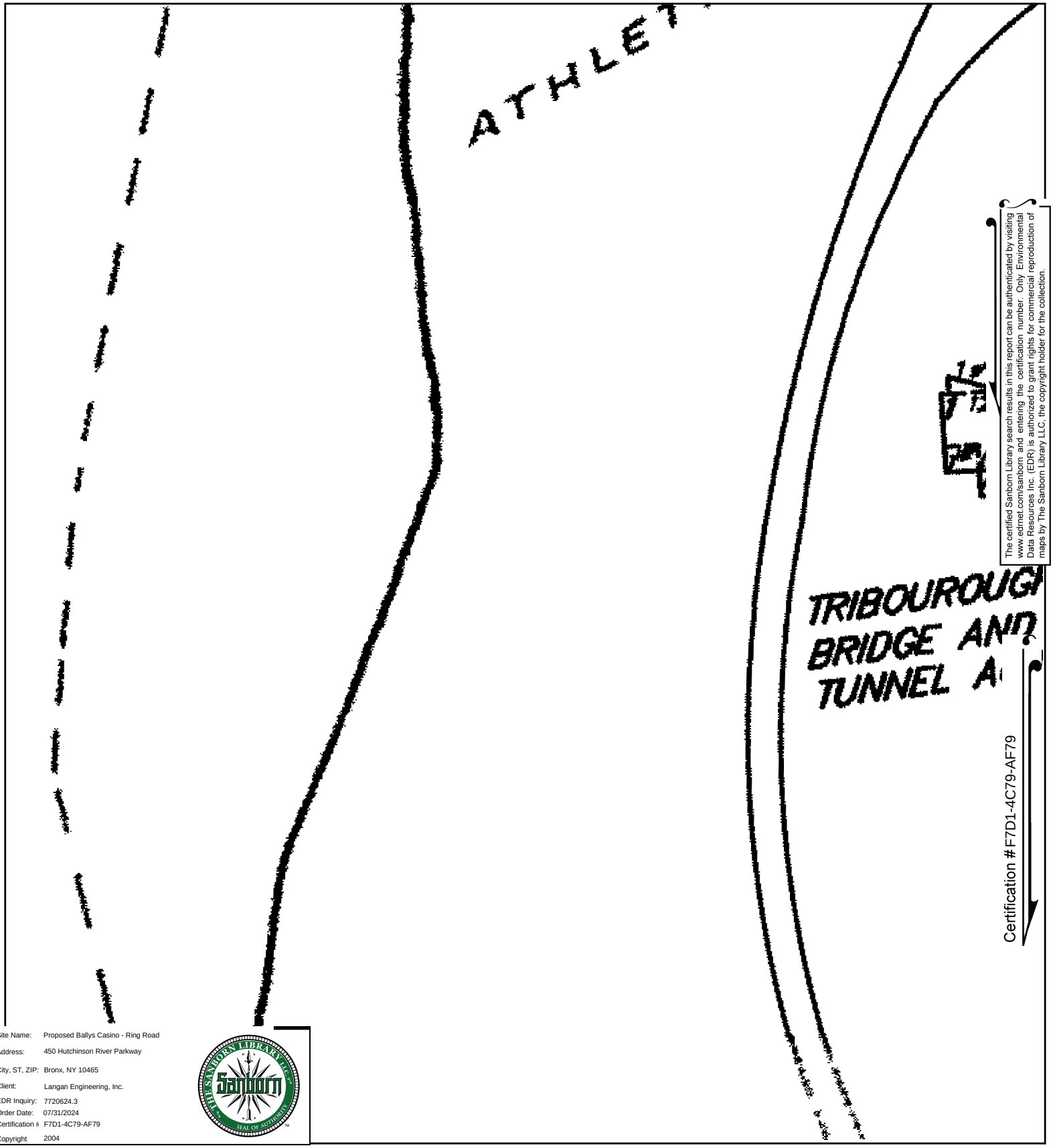

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Certification #	F7D1-4C79-AF79
Copyright	2004

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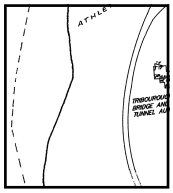

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2003

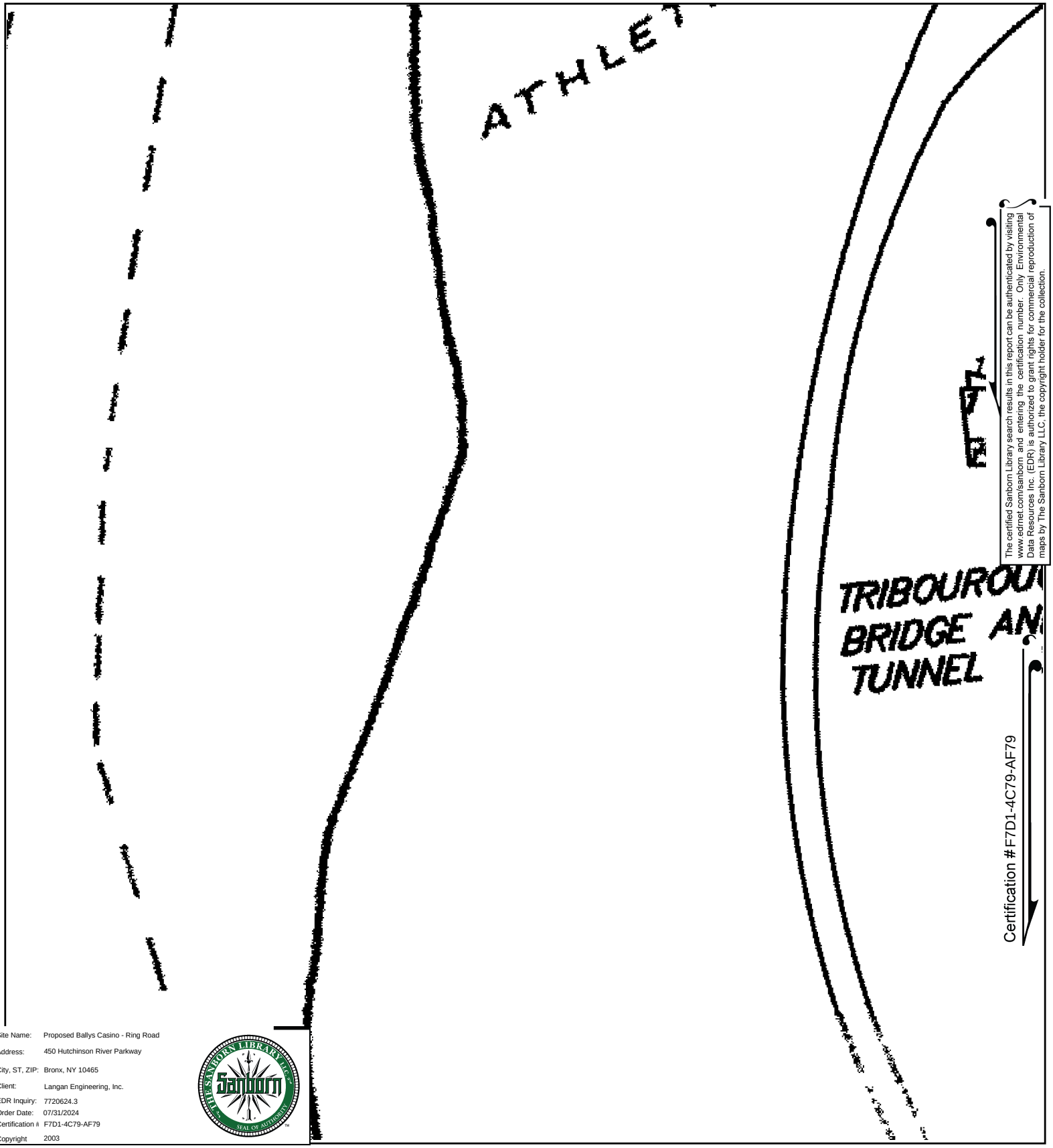

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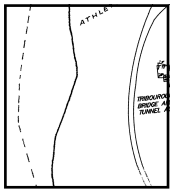

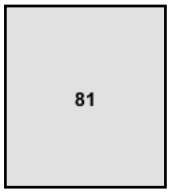

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Certified Sanborn® Map

2002

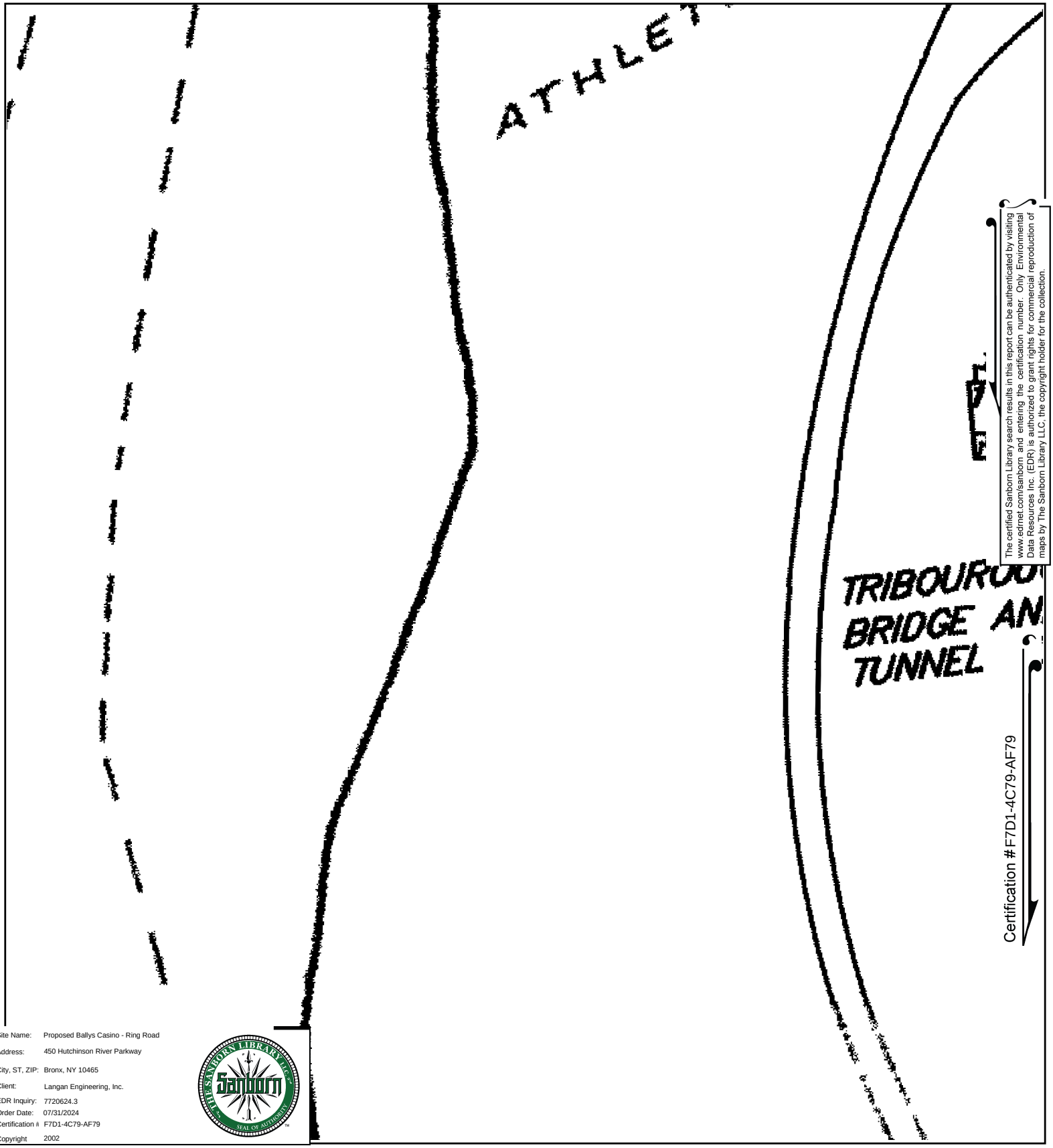

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Address: 450 Hutchinson River Parkway
City, ST, ZIP: Bronx, NY 10465
Client: Langan Engineering, Inc.
EDR Inquiry: 7720624.3
Order Date: 07/31/2024
Certification # F7D1-4C79-AF79
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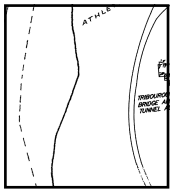

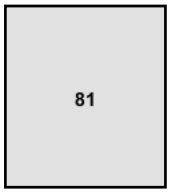

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2001

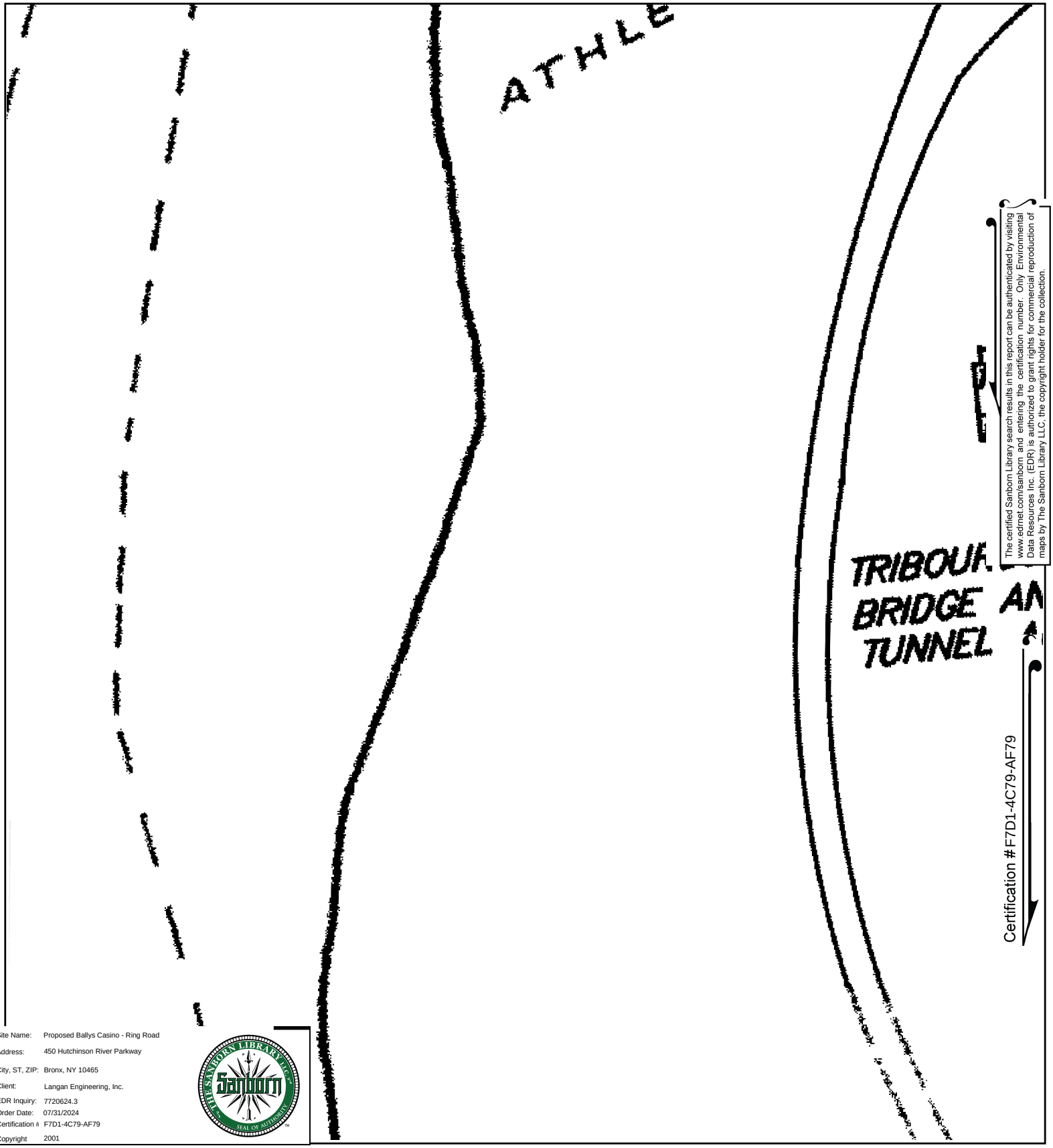

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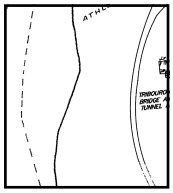

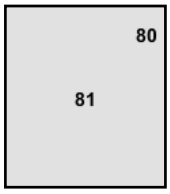

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Certified Sanborn® Map

1998

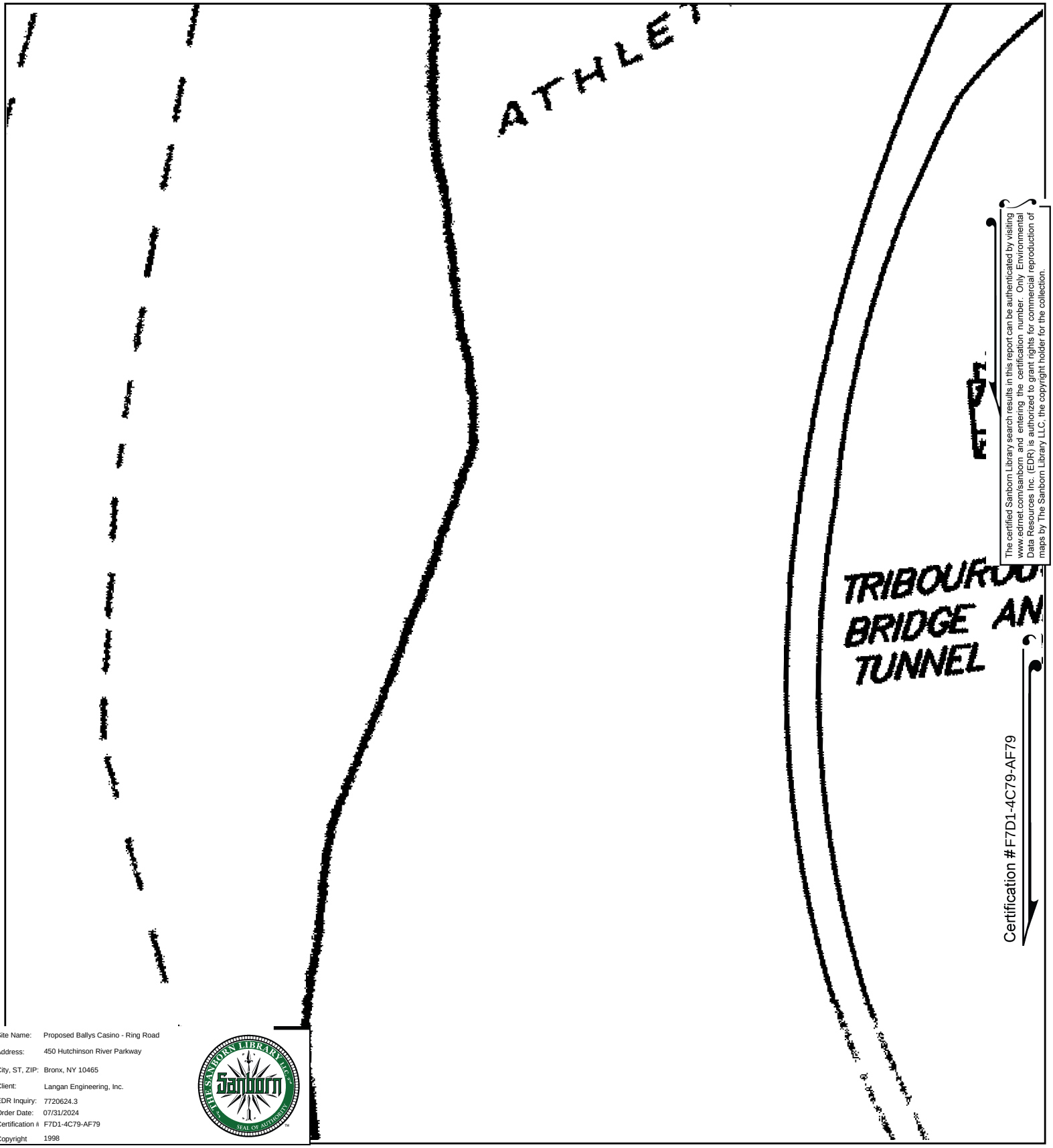

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Certification #	F7D1-4C79-AF79
Copyright	1998

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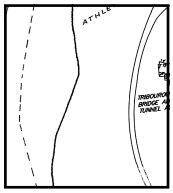

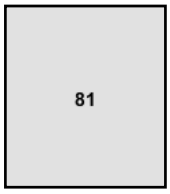

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1996

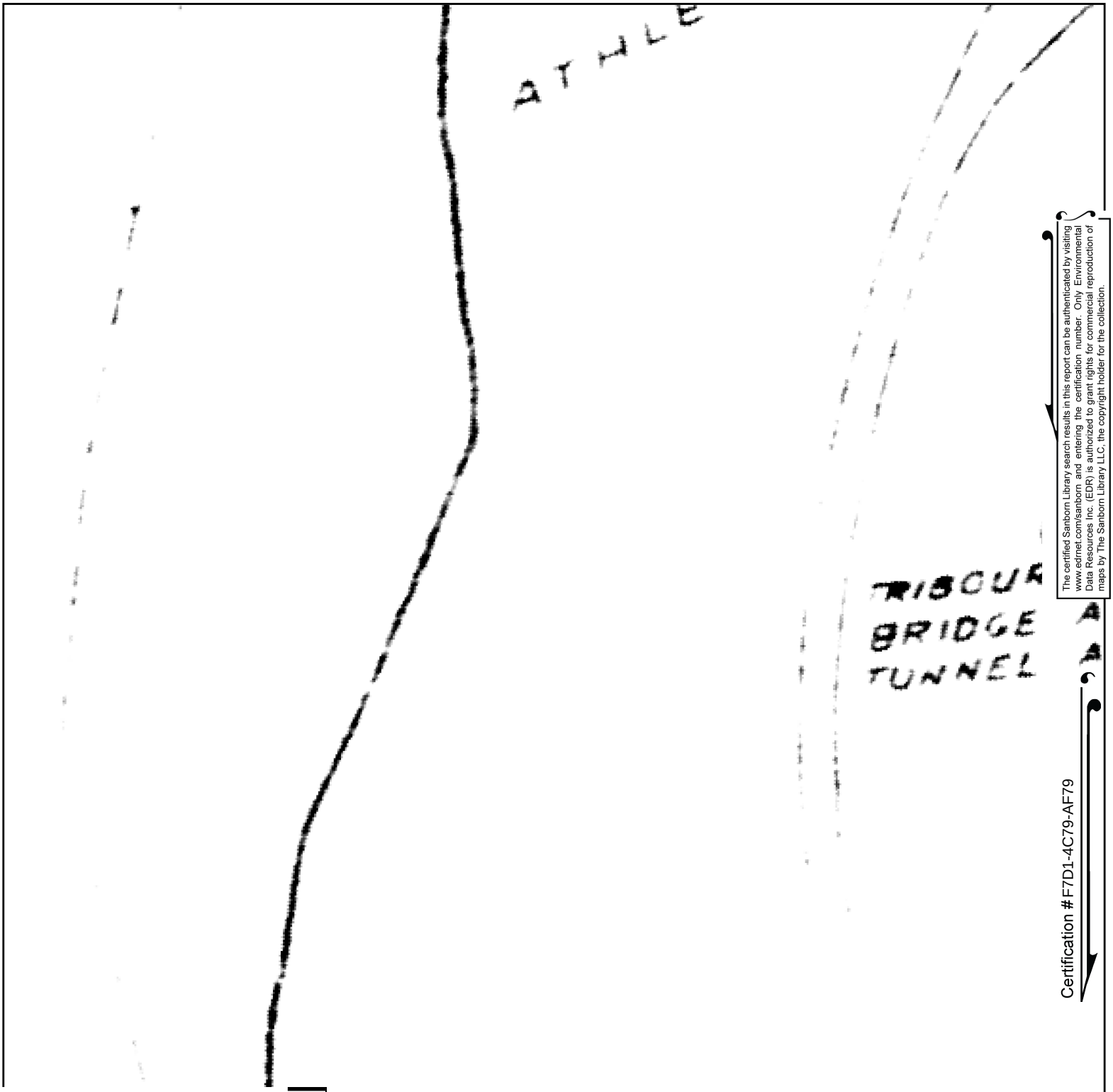

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Certification #	F7D1-4C79-AF79
Copyright	1996

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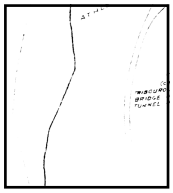

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1995

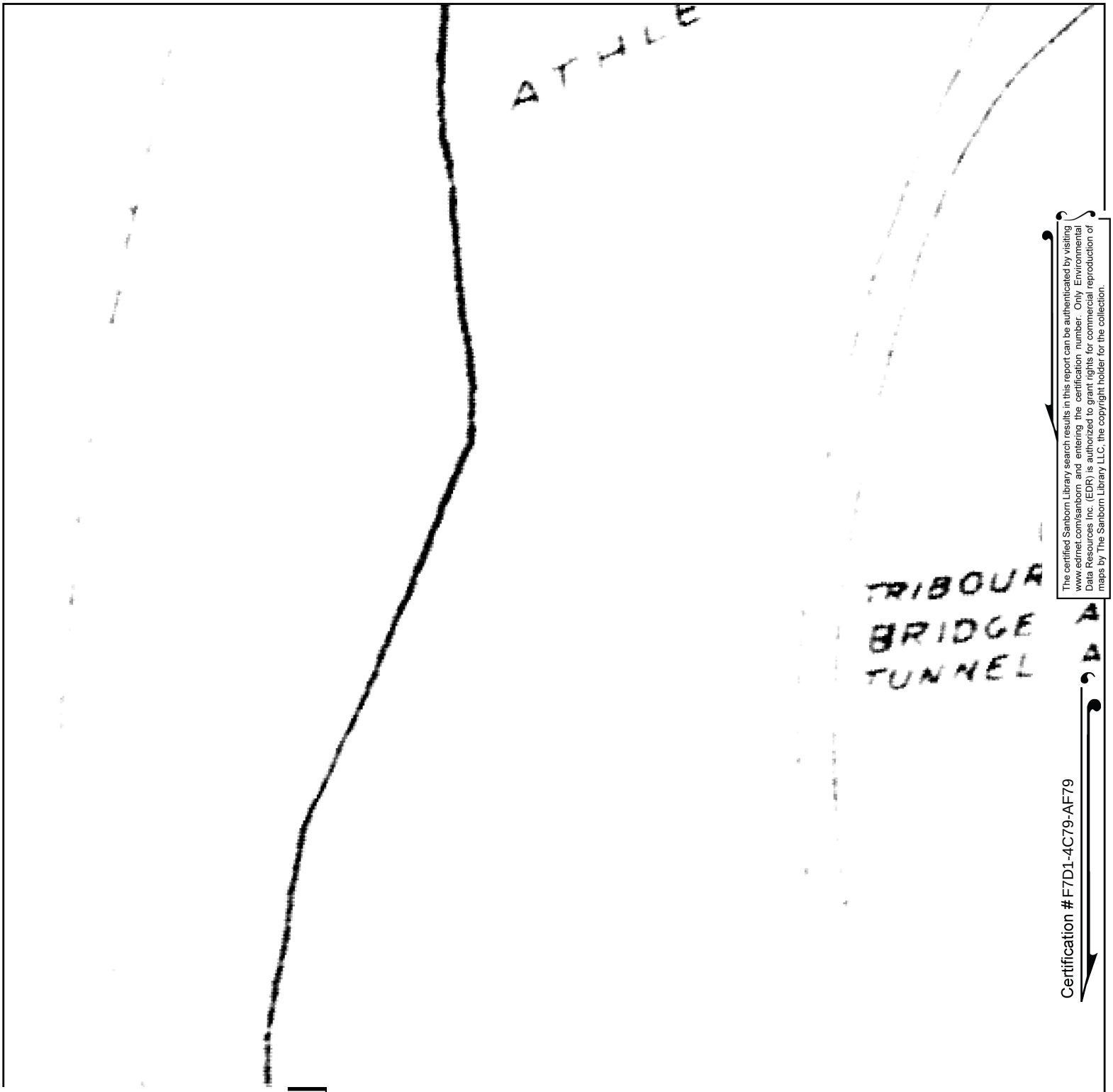

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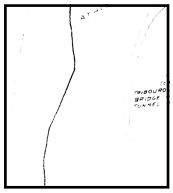

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1993

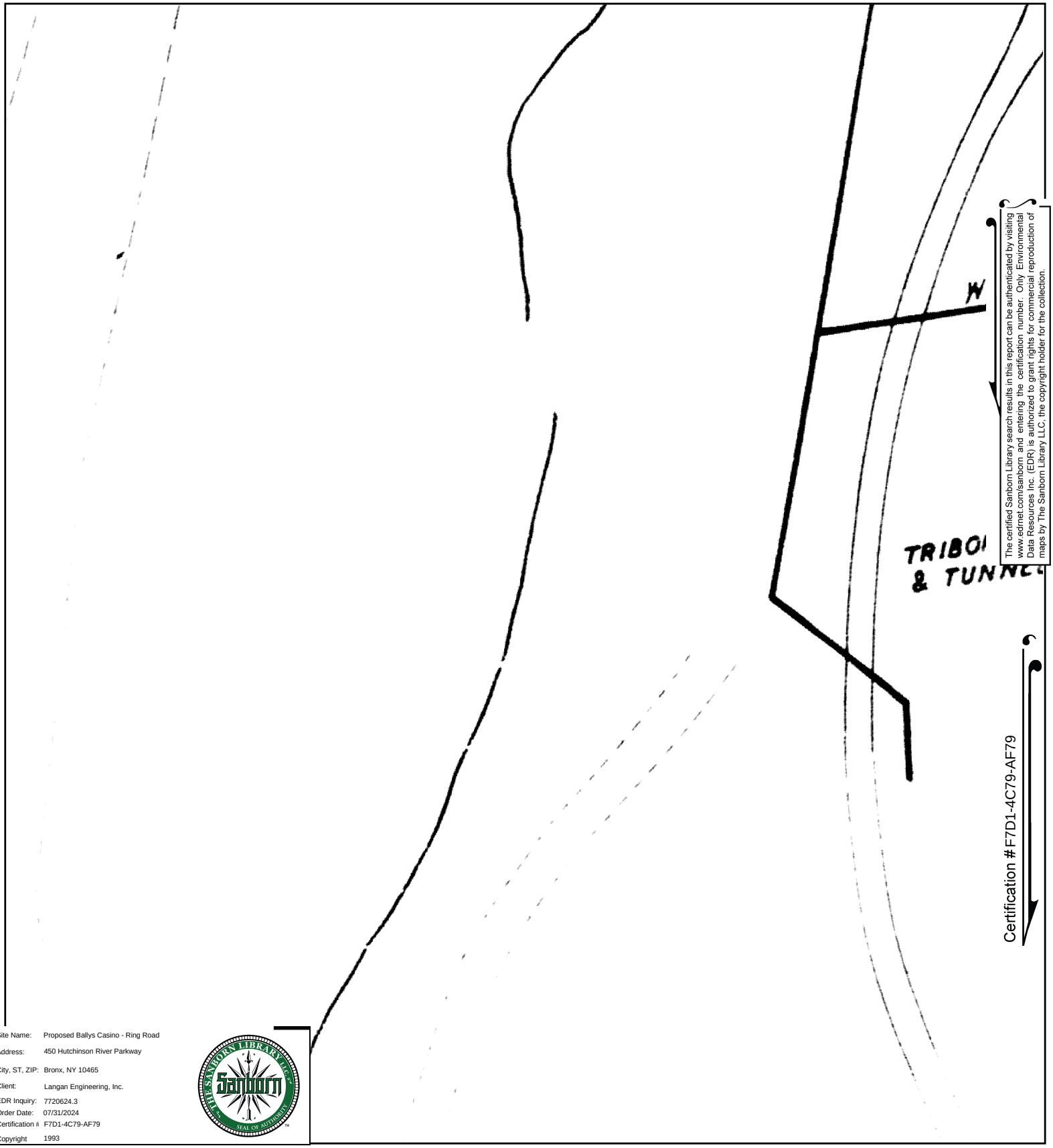

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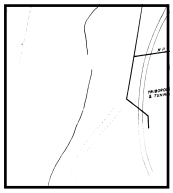

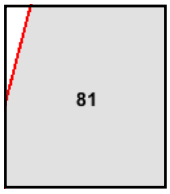

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1992

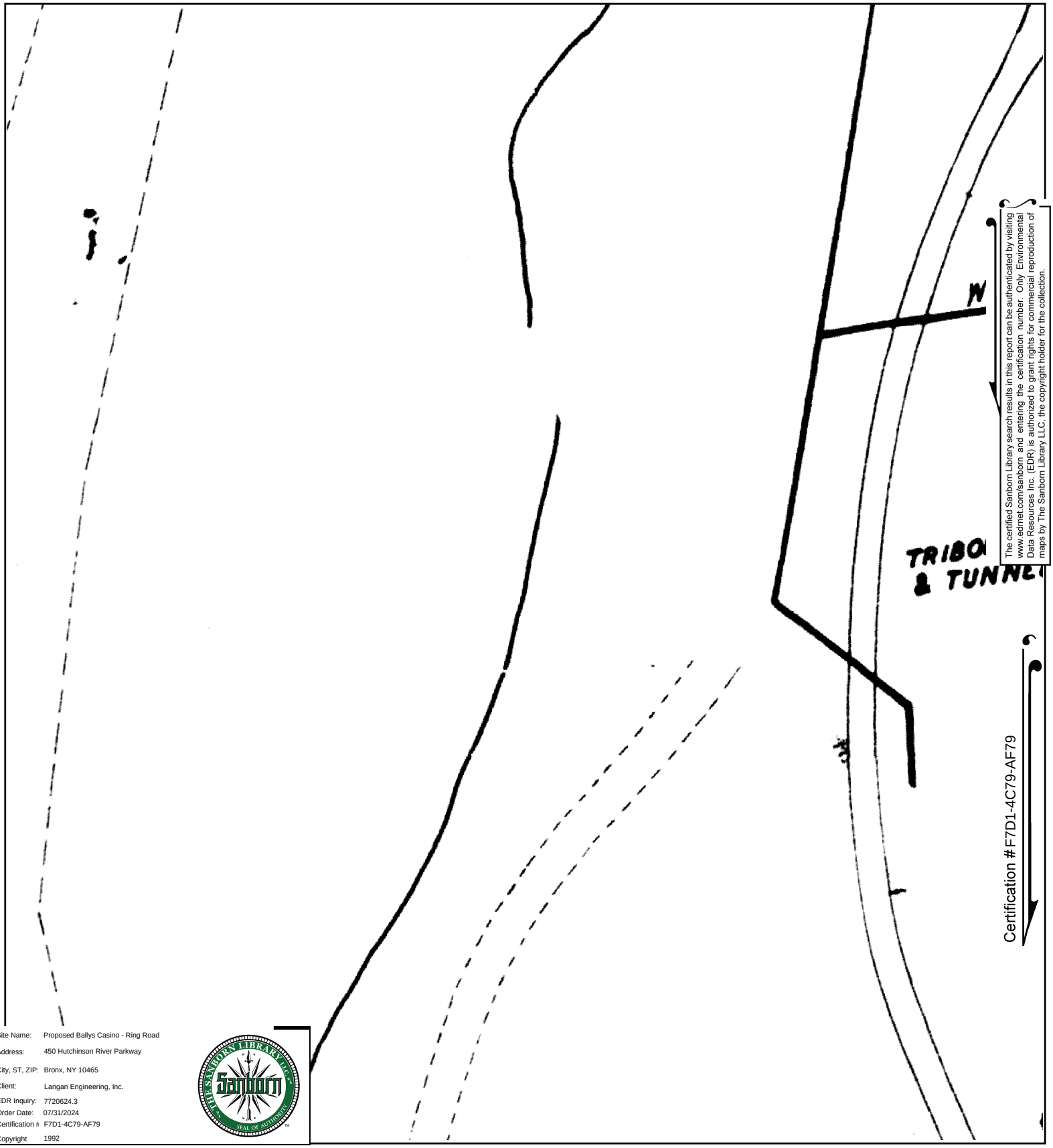

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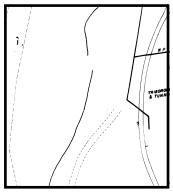

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1991

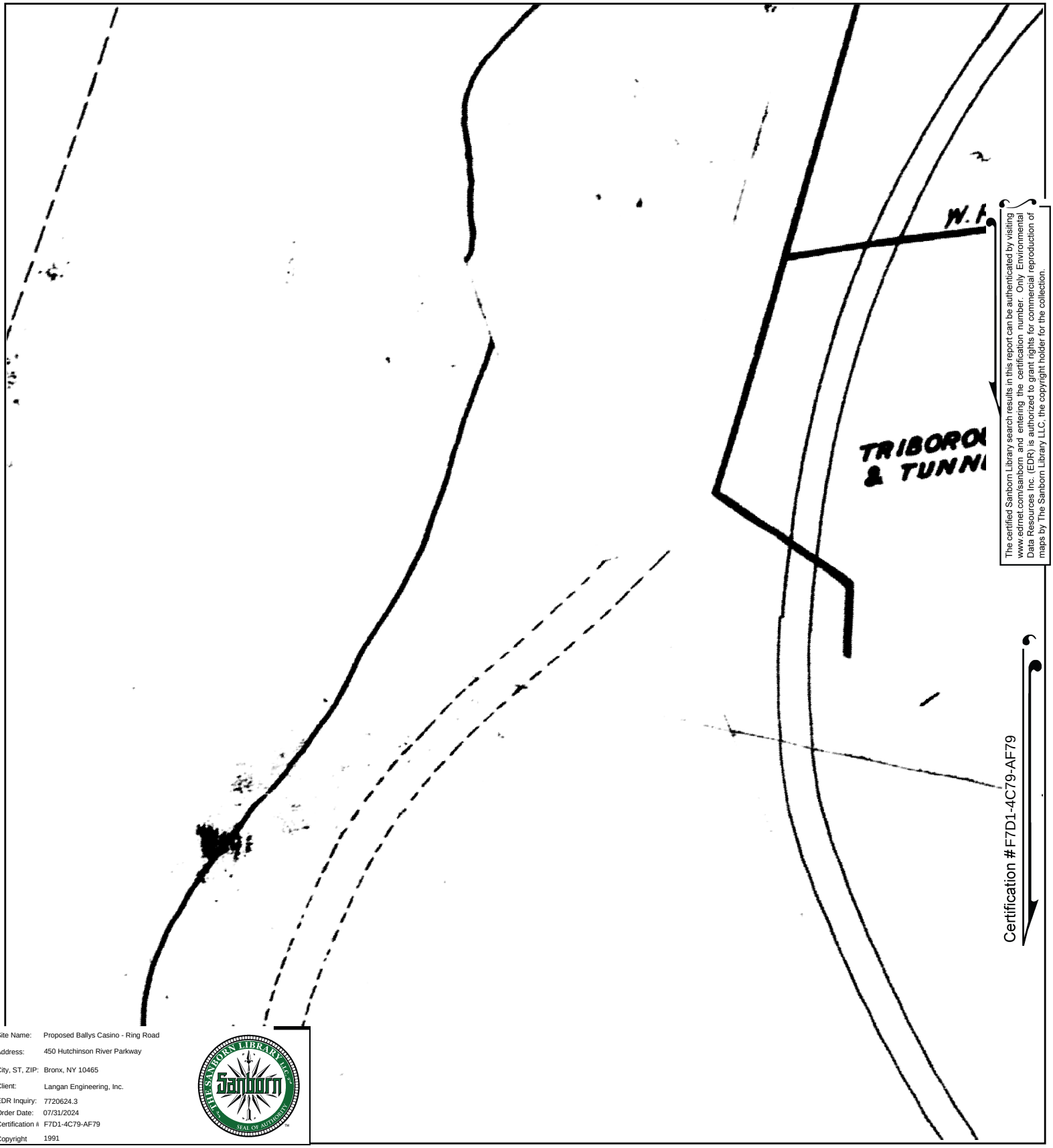

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Certification #	F7D1-4C79-AF79
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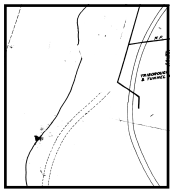

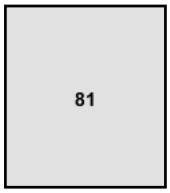

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1988

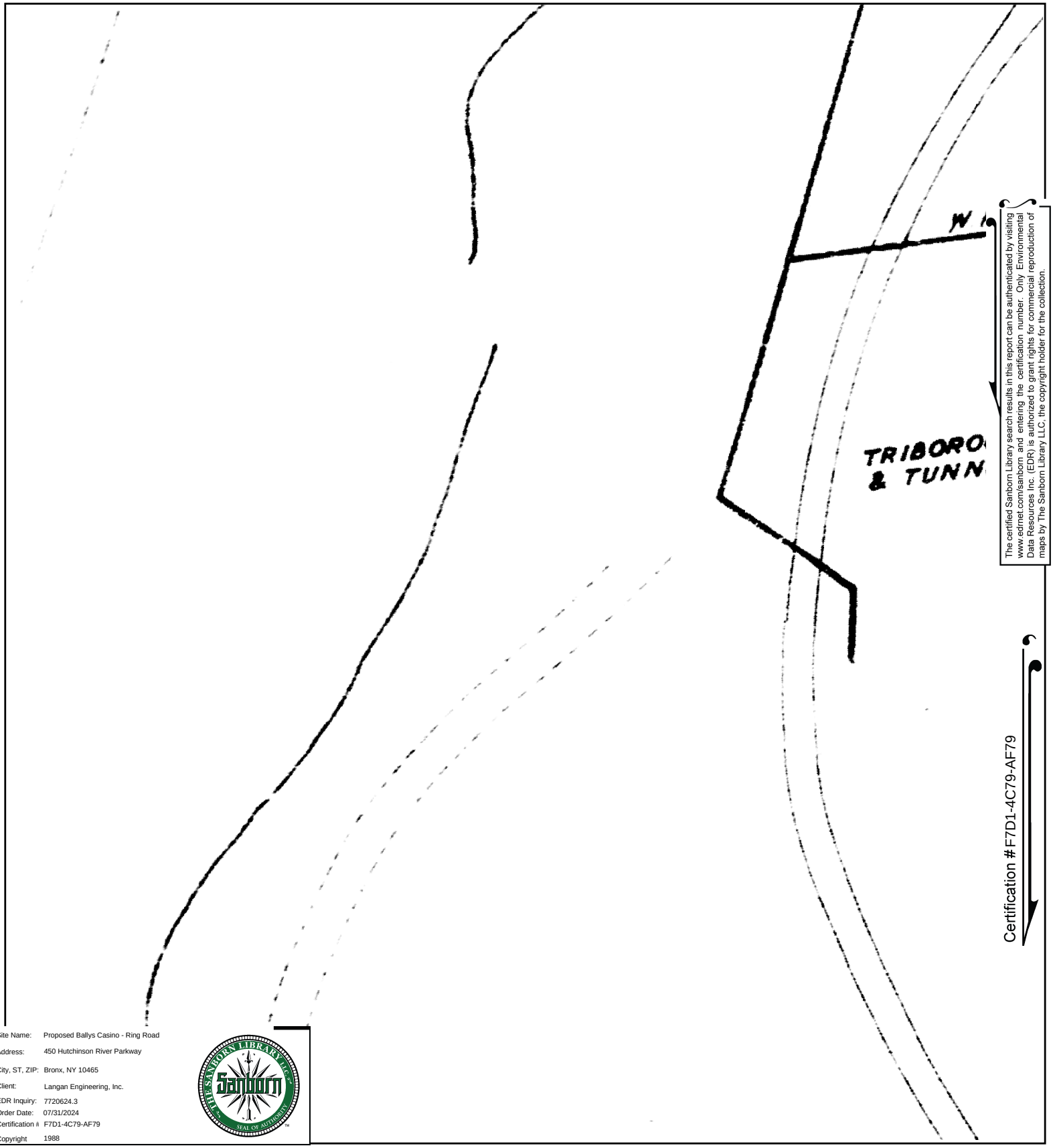

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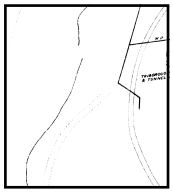

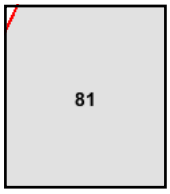

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1986

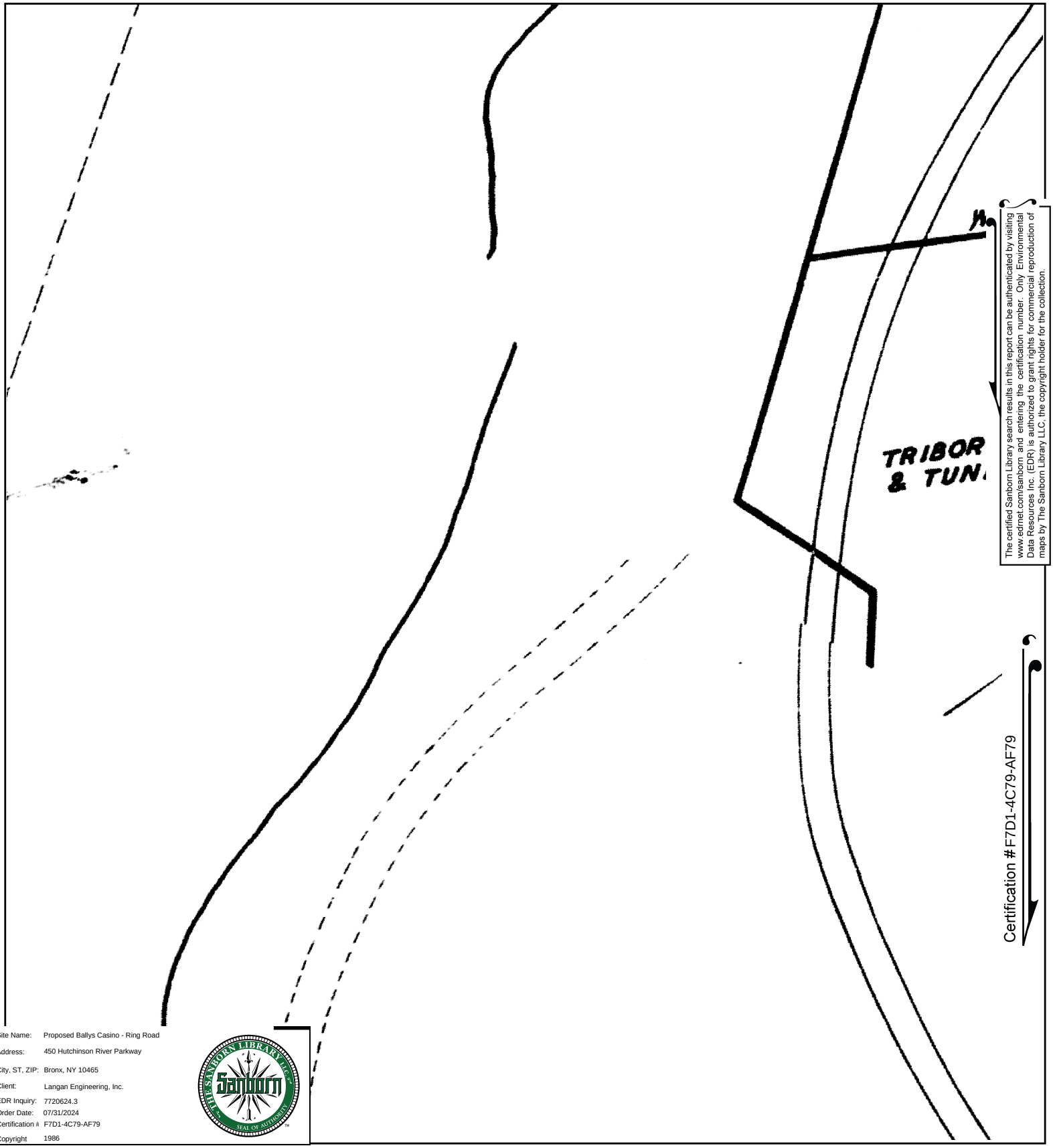

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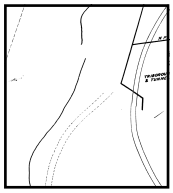

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1983

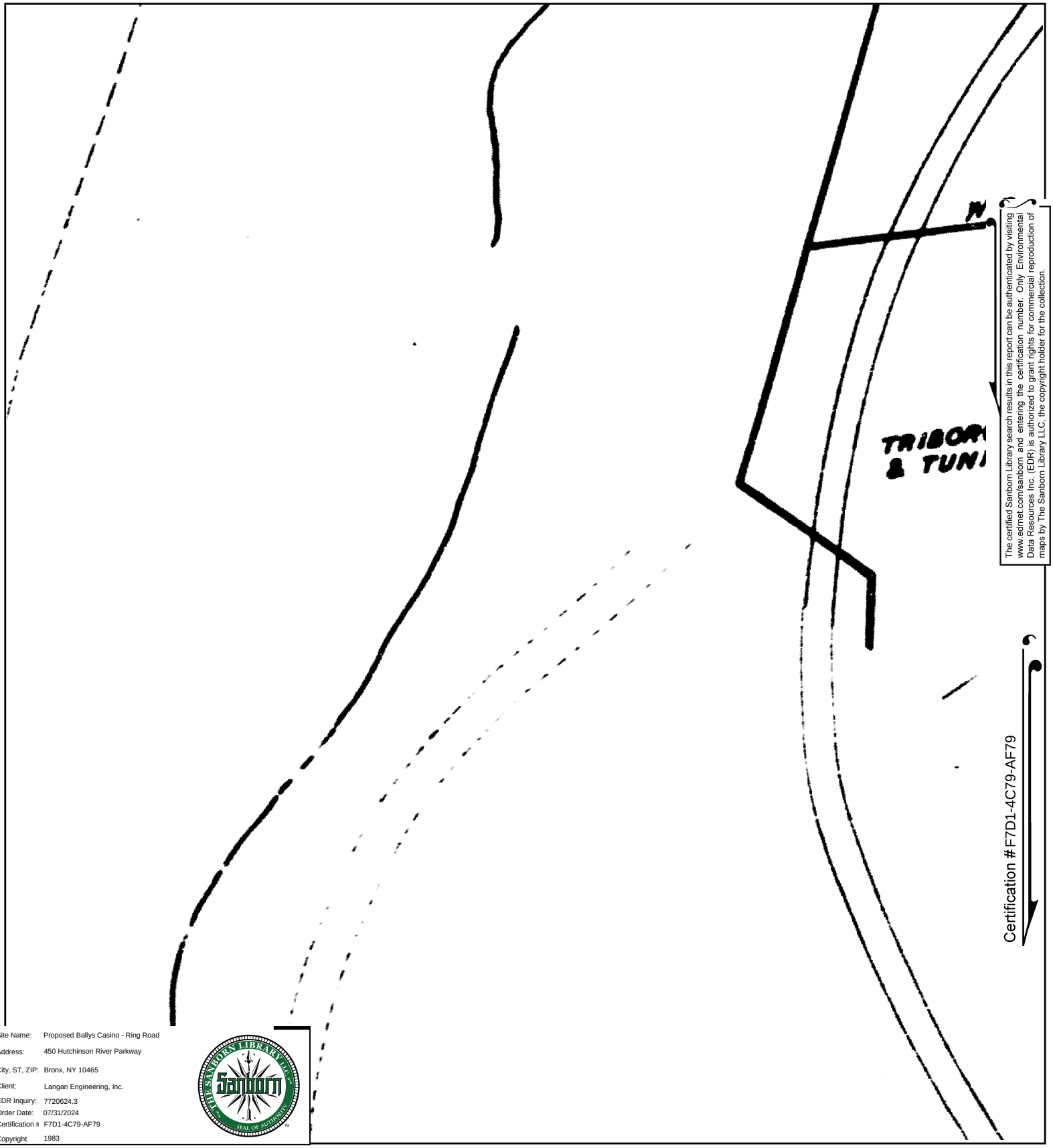

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Copyright	1983

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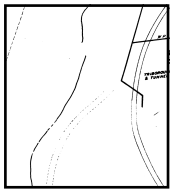

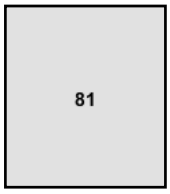

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1981

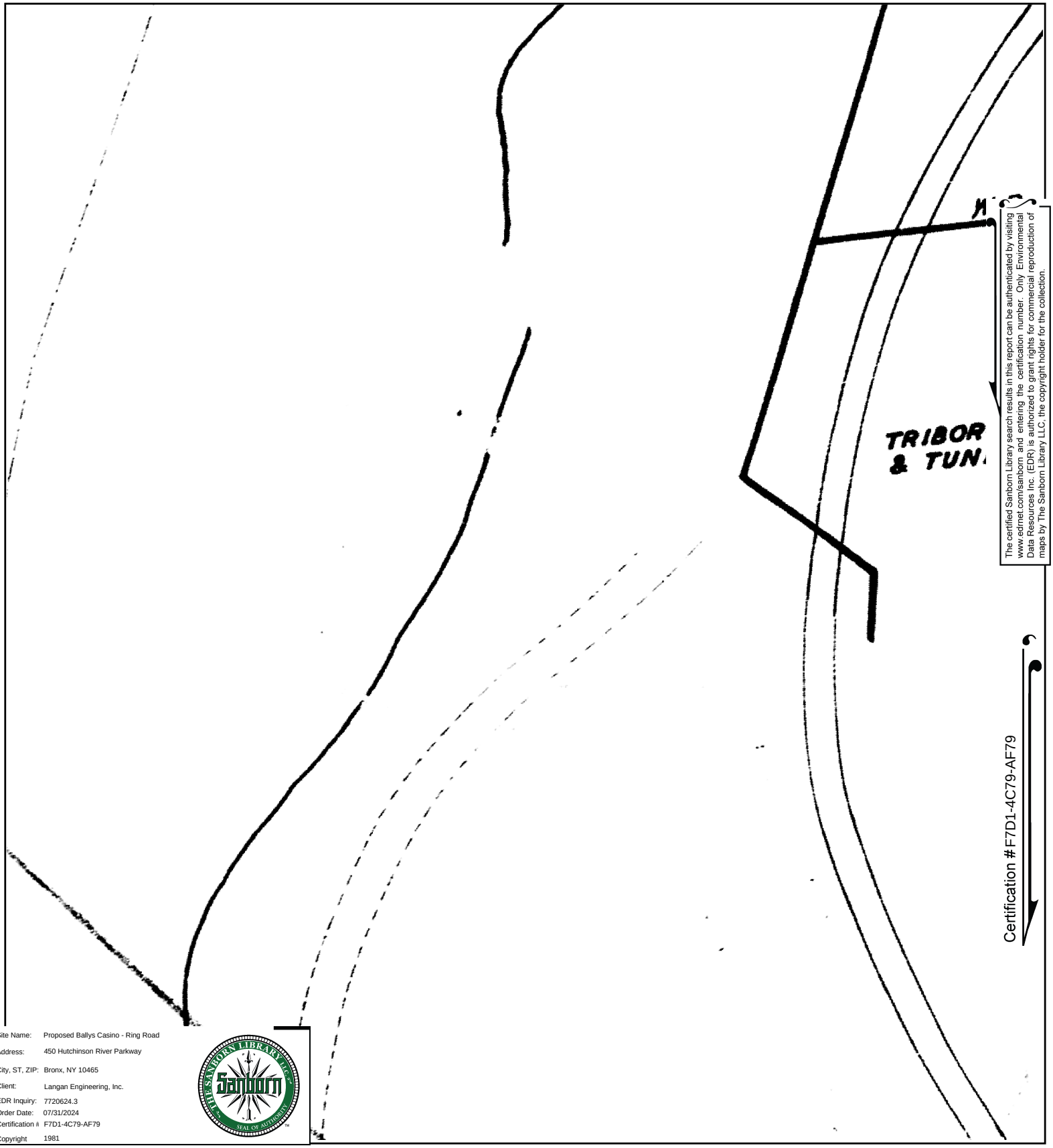

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Copyright	1981

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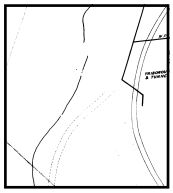

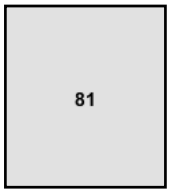

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1978

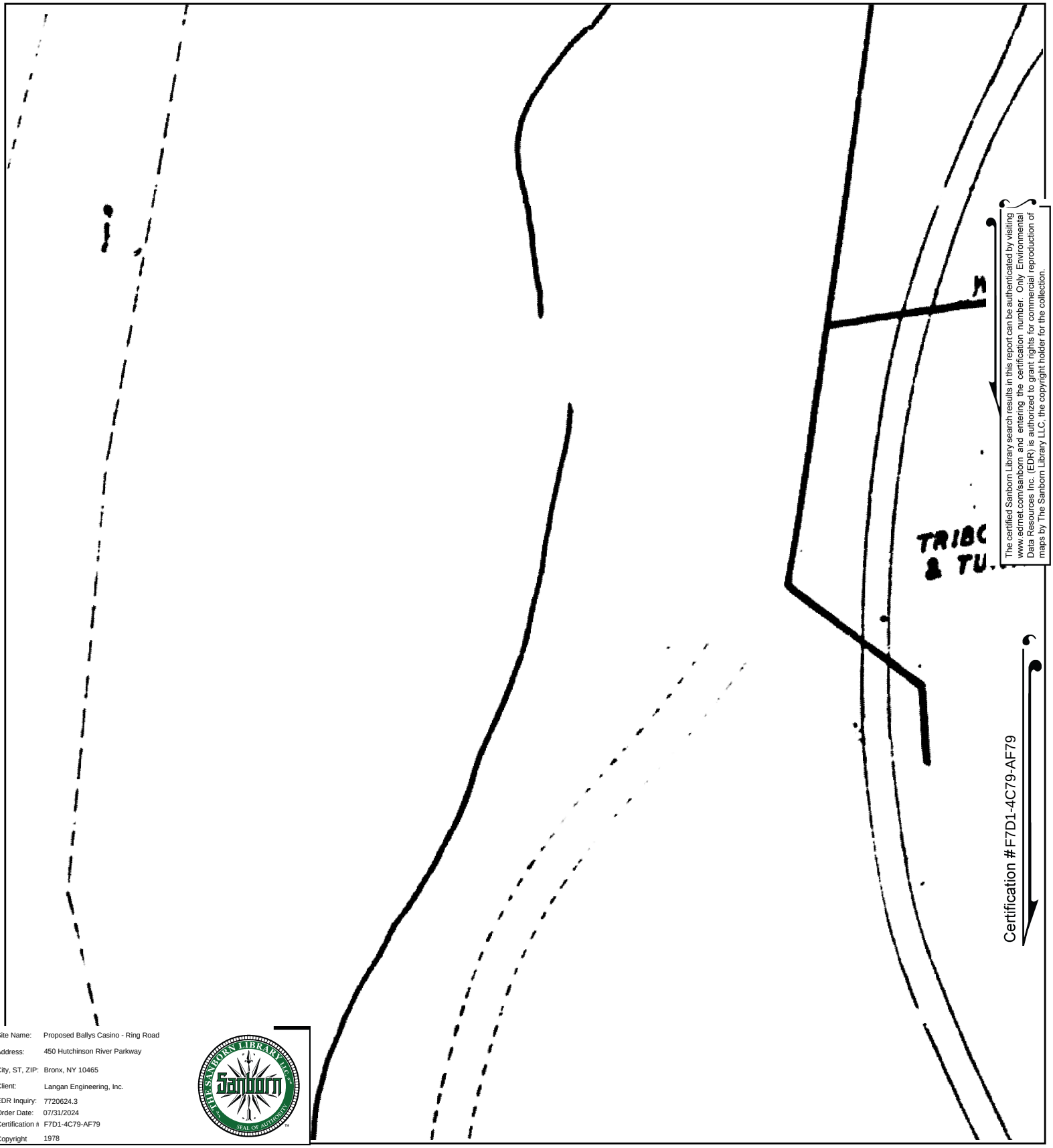

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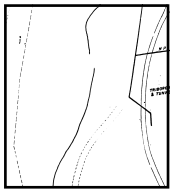

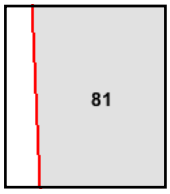

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1977

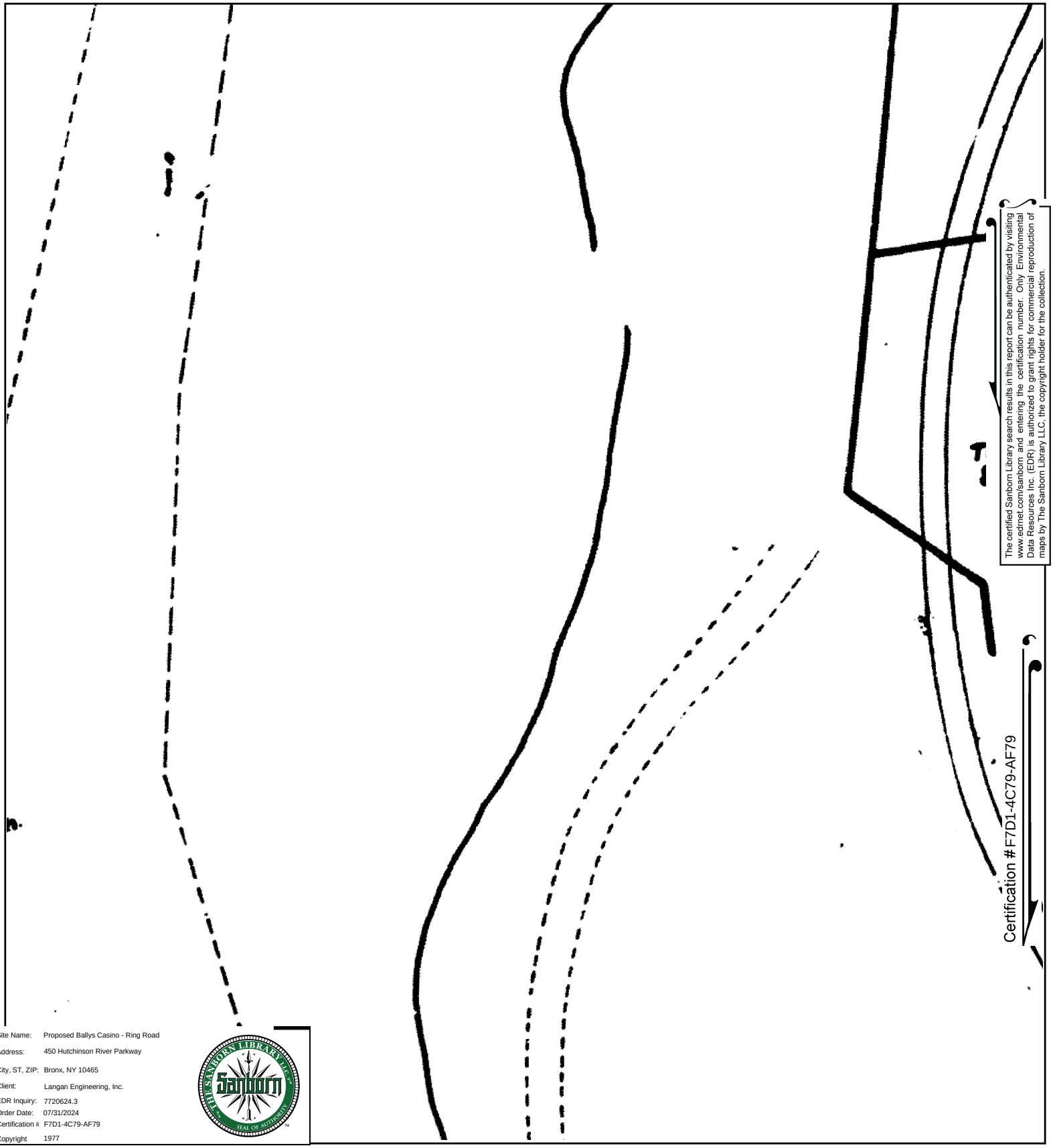

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1977

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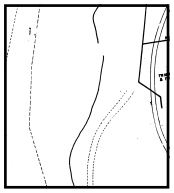

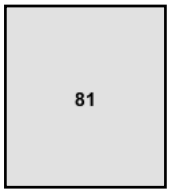

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N

Certified Sanborn® Map

1967

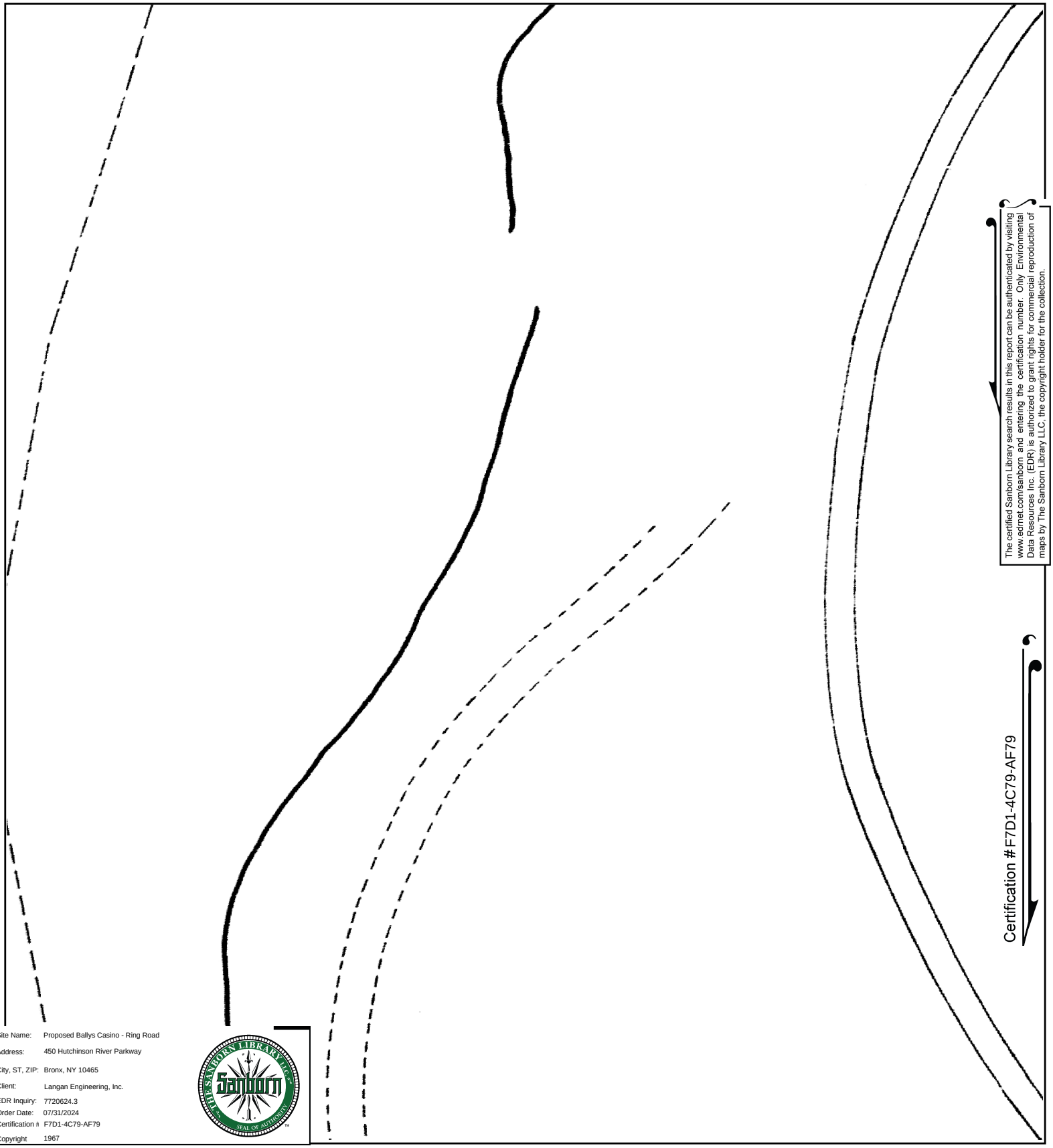

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Address:	450 Hutchinson River Parkway
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Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1967

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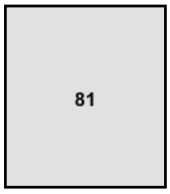

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N

Certified Sanborn® Map

1950

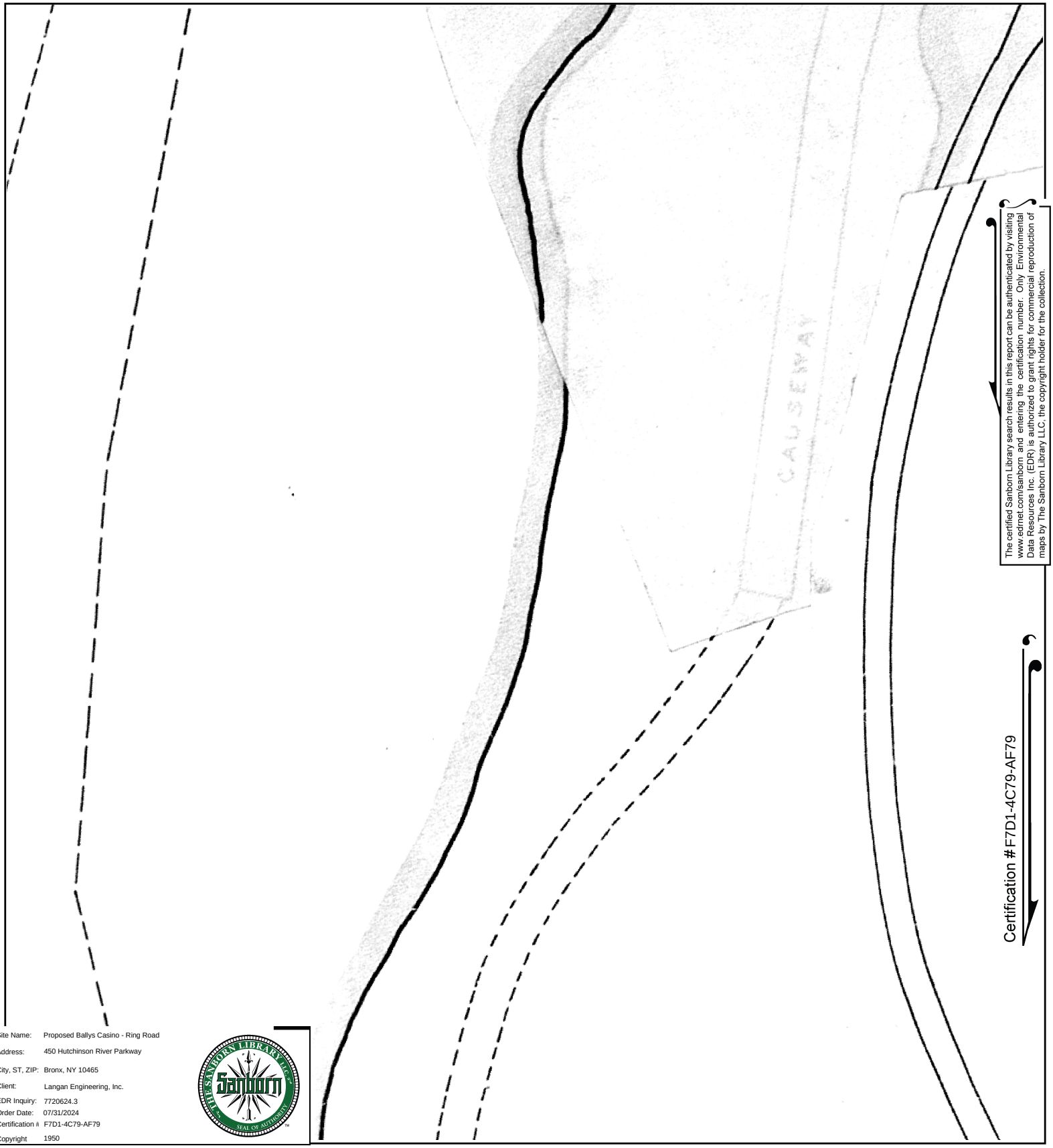

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Certification #F7D1-4C79-AF79

Site Name: Proposed Ballys Casino - Ring Road
Address: 450 Hutchinson River Parkway
City, ST, ZIP: Bronx, NY 10465
Client: Langan Engineering, Inc.
EDR Inquiry: 7720624.3
Order Date: 07/31/2024
Certification # F7D1-4C79-AF79
Copyright 1950

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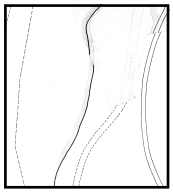

81

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N

Certified Sanborn® Map

1930

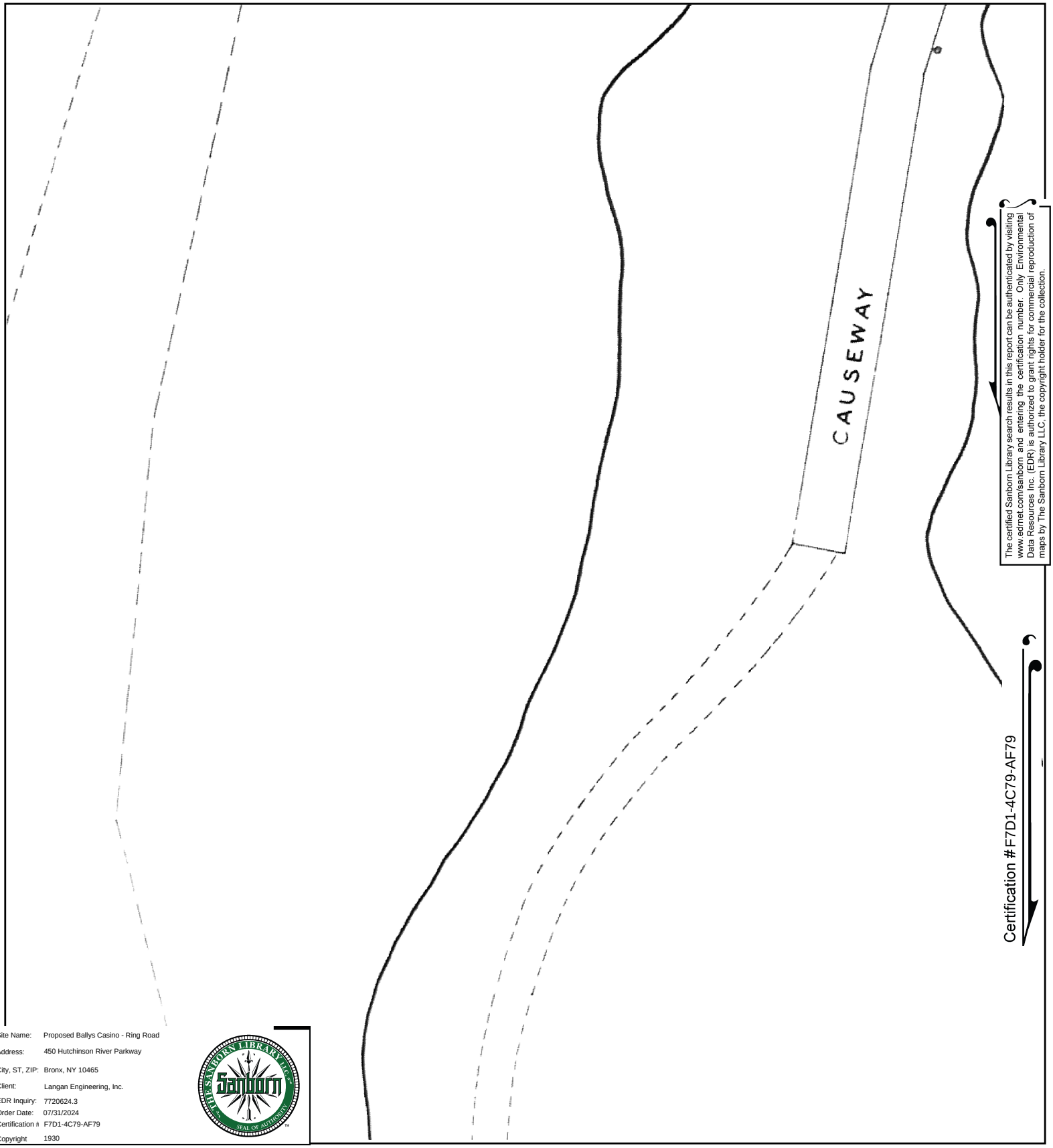

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Certification #F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1930

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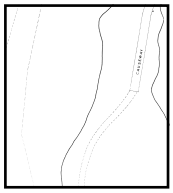

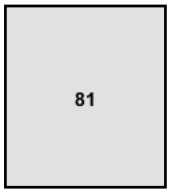

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N

Certified Sanborn® Map

1919

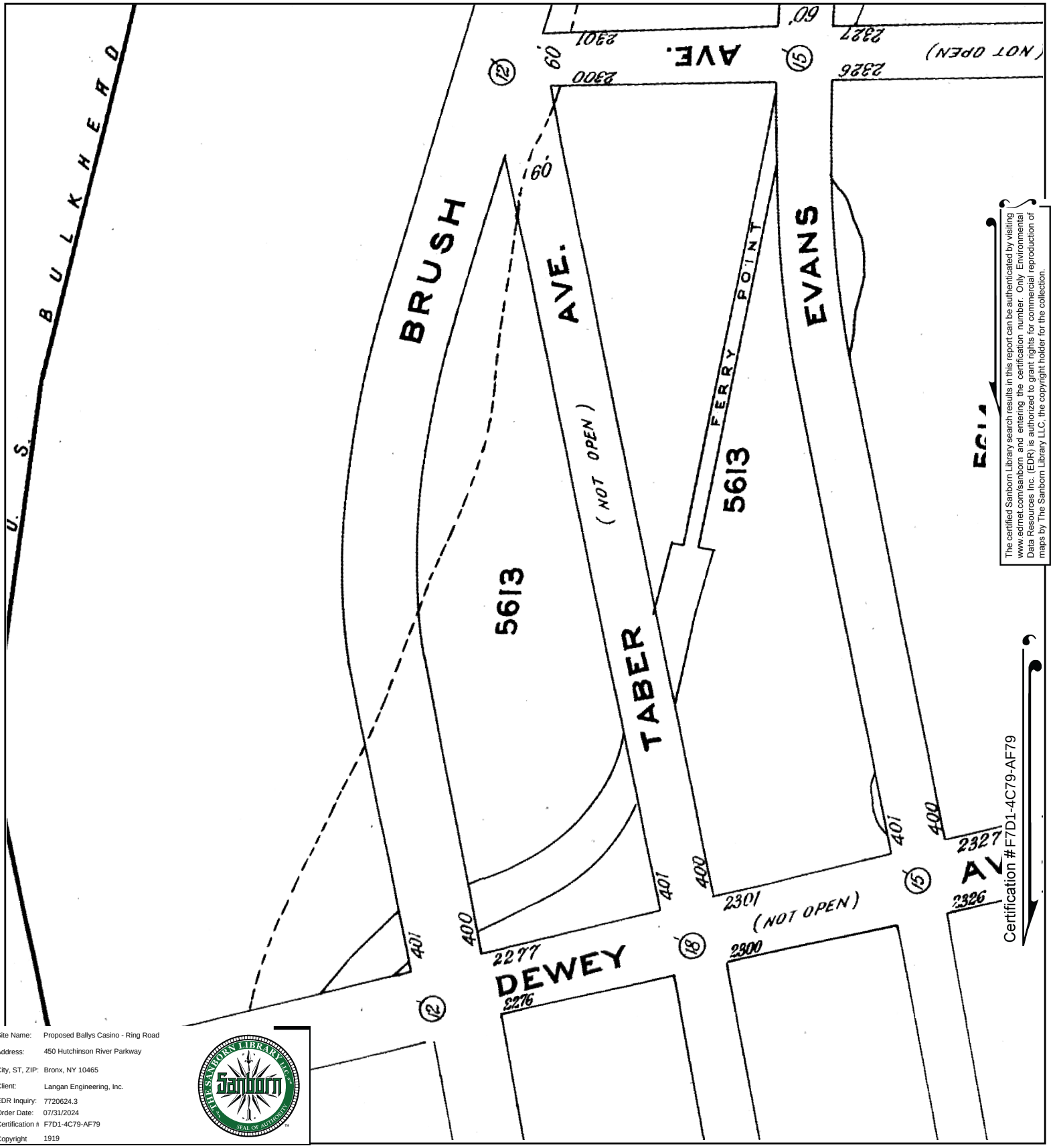

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1919

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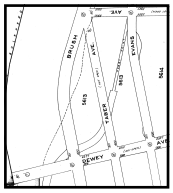

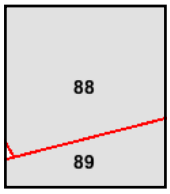

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N

Certified Sanborn® Map

1908

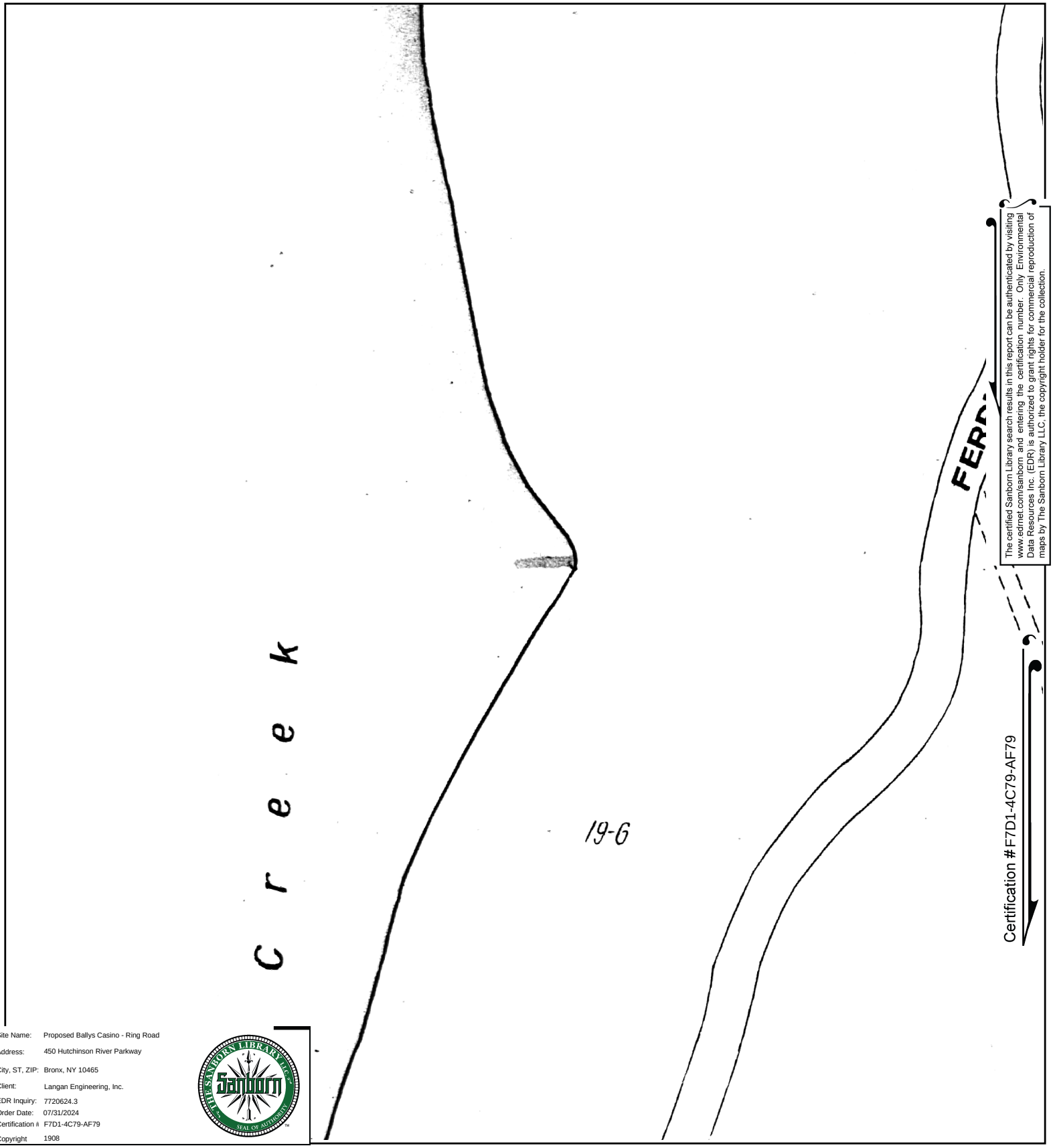

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1908

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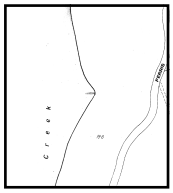

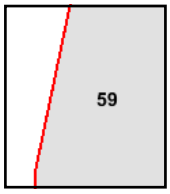

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N

Certified Sanborn® Map

1898

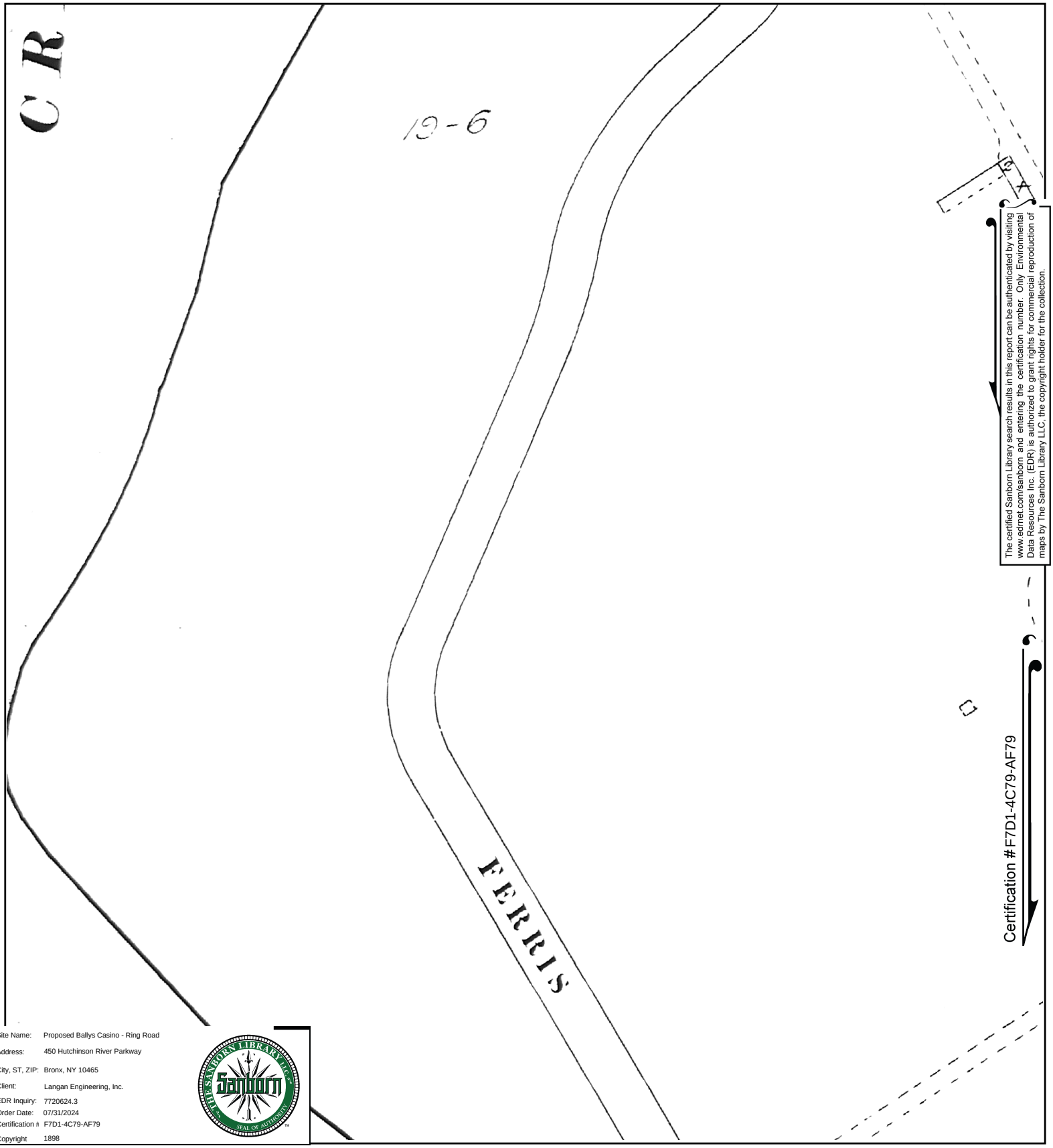

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1898

This Certified Sanborn Map combines the following sheets.
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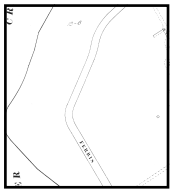

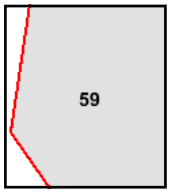

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N

Proposed Ballys Casino - Ring Road

450 Hutchinson River Parkway

Bronx, NY 10465

Inquiry Number: 7720624.3

July 31, 2024

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

07/31/24

Site Name:	Client Name:
Proposed Ballys Casino - Ring	Langan Engineering, Inc.
450 Hutchinson River Parkway	360 W. 31st Street
Bronx, NY 10465	New York, NY 10001
EDR Inquiry # 7720624.3	Contact: Kaitlyn Gioia

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Certified Sanborn Results:

Certification # F7D1-4C79-AF79

PO # 170773001

Project Prpsd Bally s Casino - Ring Rd

Maps Provided:

2007	1996	1981	1898
2006	1995	1978	
2005	1993	1977	
2004	1992	1967	
2003	1991	1950	
2002	1988	1930	
2001	1986	1919	
1998	1983	1908	

Sanborn® Library search results

Certification #: F7D1-4C79-AF79

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- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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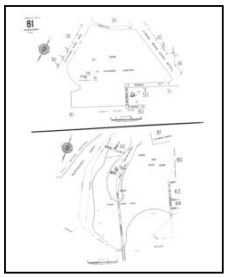

Volume 21, Sheet 81
2007

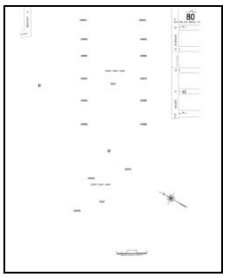

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2007

2006 Source Sheets

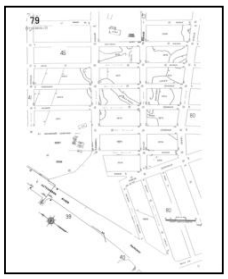

Volume 21, Sheet 79
2006

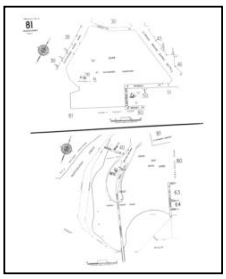

Volume 21, Sheet 81
2006

2005 Source Sheets

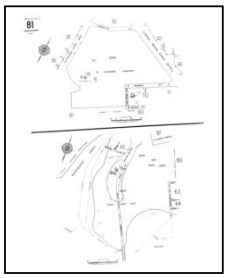

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2005

2004 Source Sheets

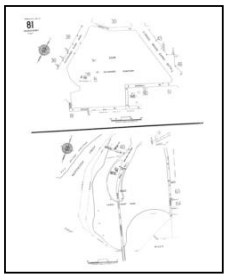

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2004

Sanborn Sheet Key

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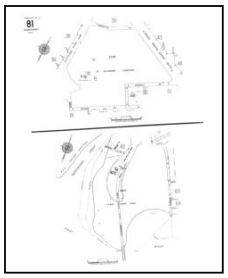

Volume 21, Sheet 81
2003

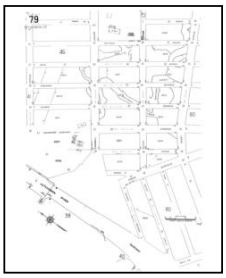

Volume 21, Sheet 79
2003

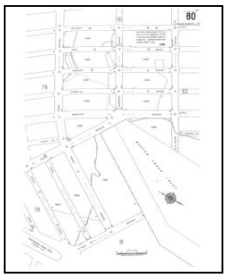

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2003

2002 Source Sheets

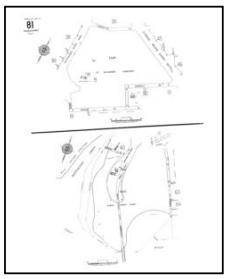

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2002

2001 Source Sheets

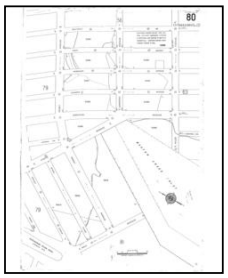

Volume 21, Sheet 80
2001

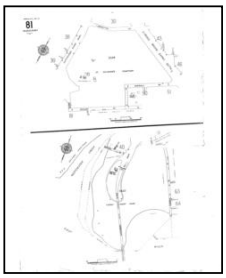

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2001

1998 Source Sheets

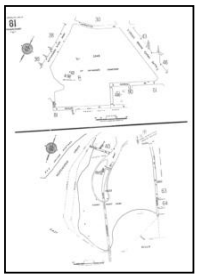

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1998

Sanborn Sheet Key

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1996 Source Sheets

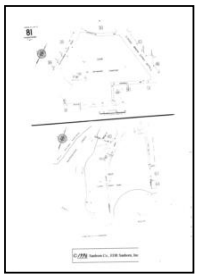

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1996

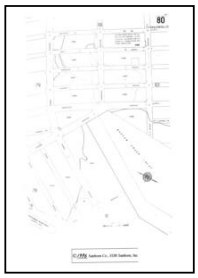

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1996

Volume 21, Sheet 79
1996

1995 Source Sheets

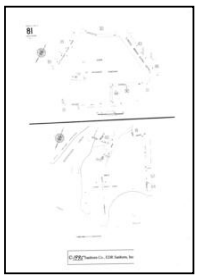

Volume 21, Sheet 81
1995

1993 Source Sheets

Volume 21, Sheet 81
1993

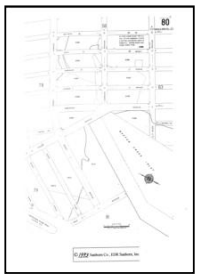

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1993

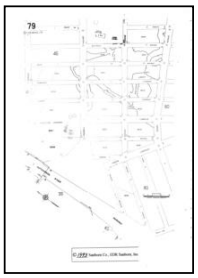

Volume 21, Sheet 79
1993

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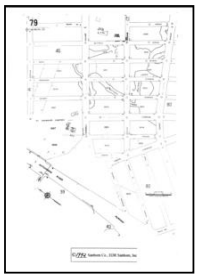

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1992

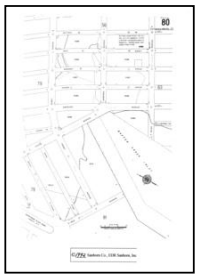

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1992

Volume 21, Sheet 81
1992

Sanborn Sheet Key

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1991 Source Sheets

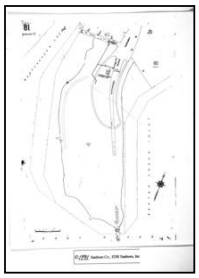

Volume 21, Sheet 81
1991

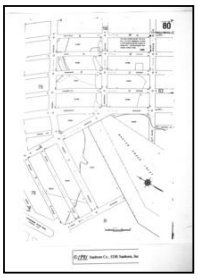

Volume 21, Sheet 80
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1988 Source Sheets

Volume 21, Sheet 81
1988

1986 Source Sheets

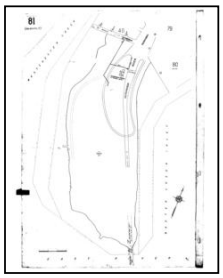

Volume 21, Sheet 81
1986

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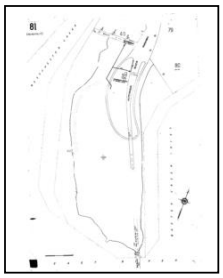

Volume 21, Sheet 81
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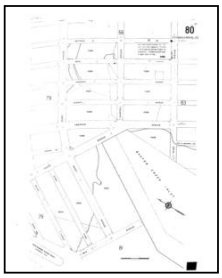

Volume 21, Sheet 80
1983

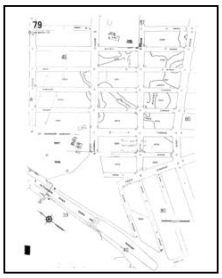

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1983

Sanborn Sheet Key

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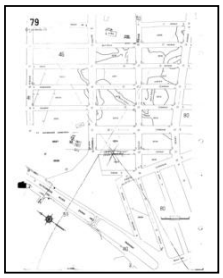

Volume 21, Sheet 79
1981

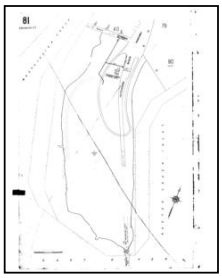

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1981

1978 Source Sheets

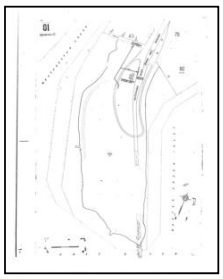

Volume 21, Sheet 81
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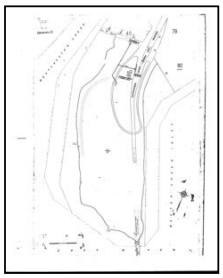

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1977

1967 Source Sheets

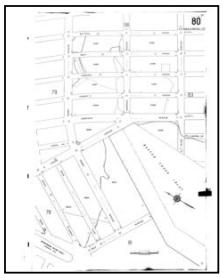

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1967

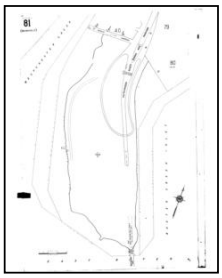

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1967

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1950 Source Sheets

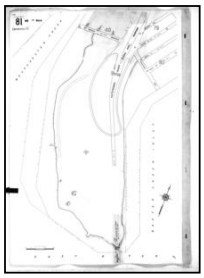

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1950

1930 Source Sheets

Volume 21, Sheet 81
1930

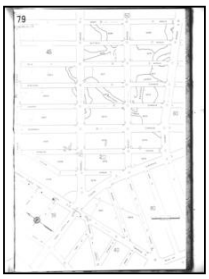

Volume 21, Sheet 79
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1919 Source Sheets

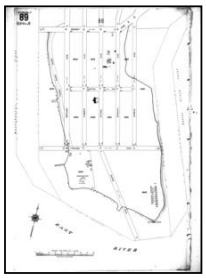

Volume 17, Sheet 89
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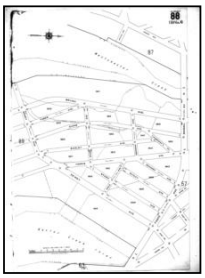

Volume 17, Sheet 88
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1908 Source Sheets

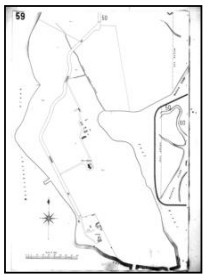

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1908

Sanborn Sheet Key

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1898 Source Sheets

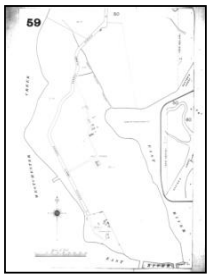

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1898

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2007

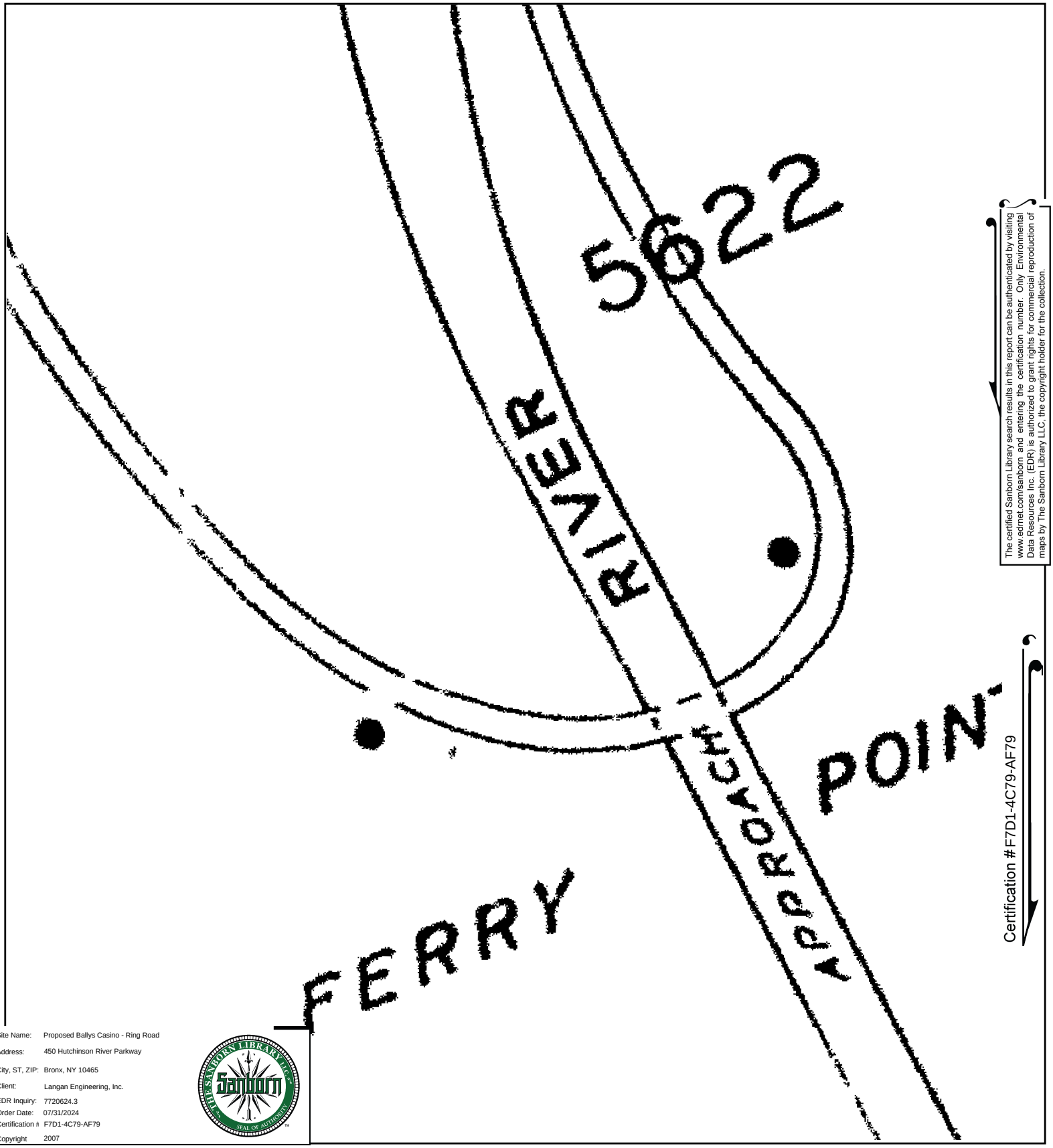

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
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Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
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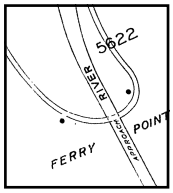

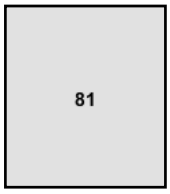

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N

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2006

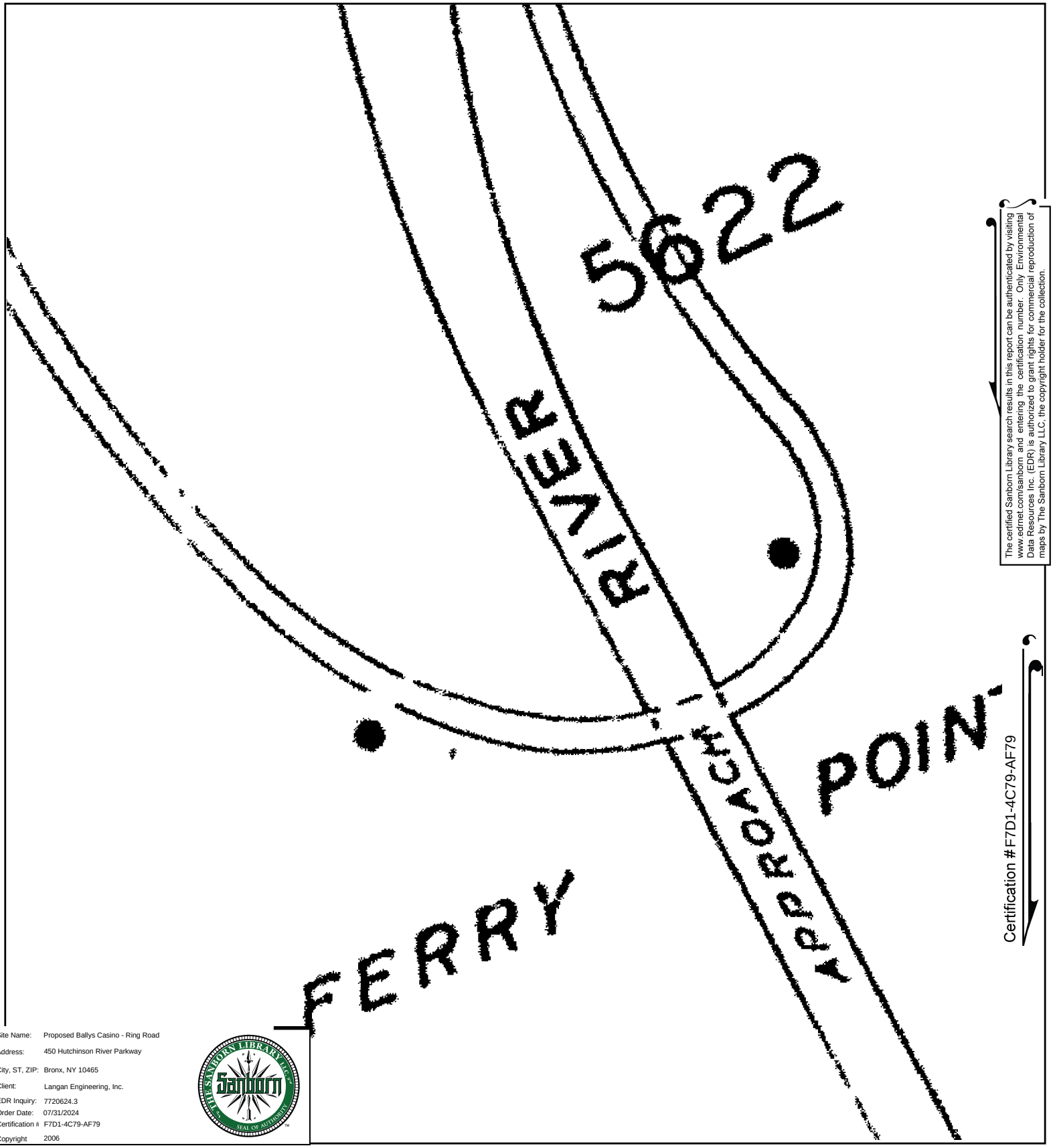

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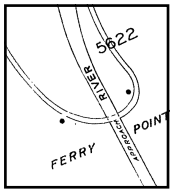

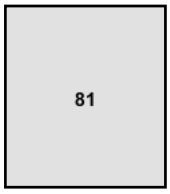

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2005

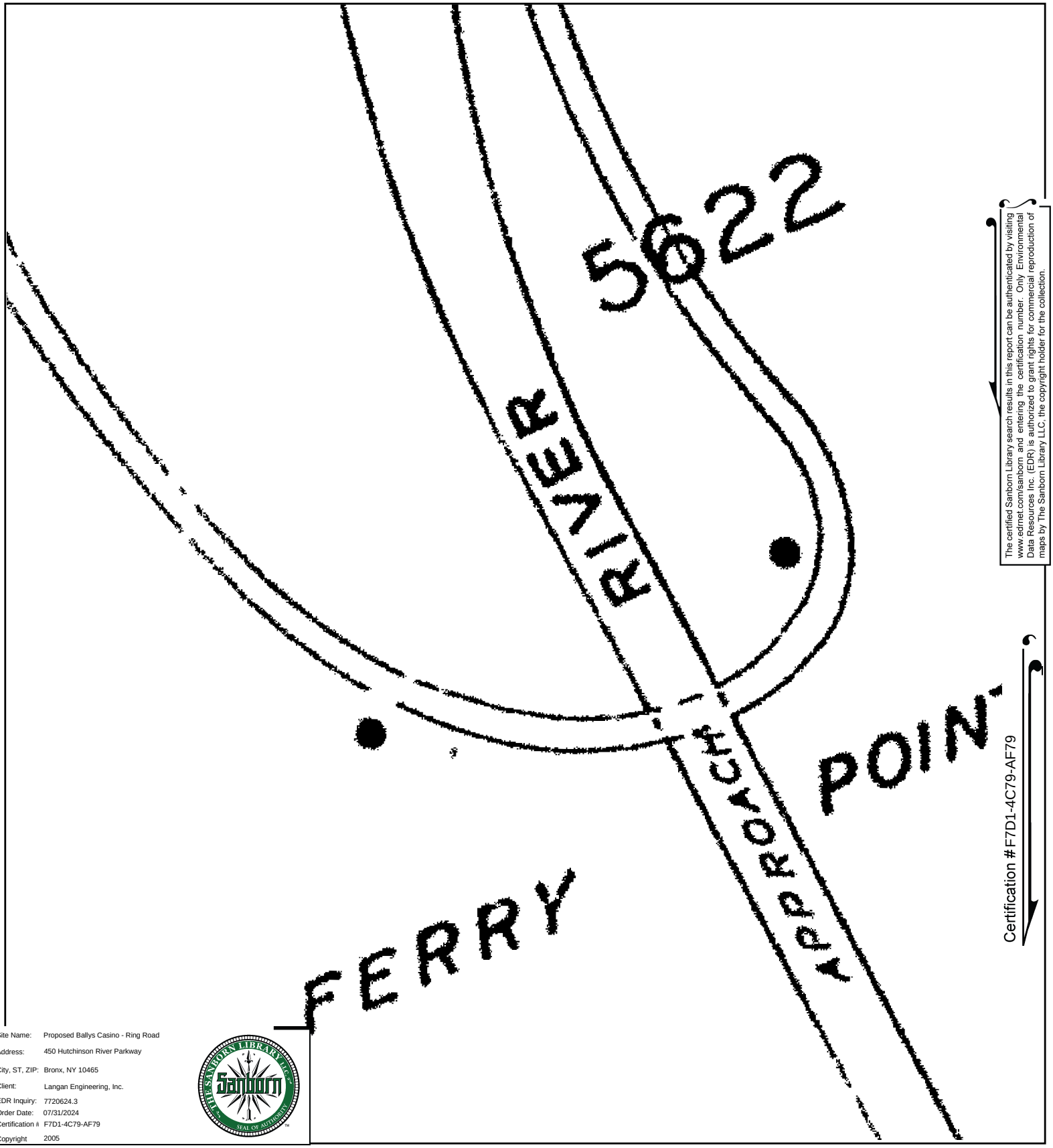

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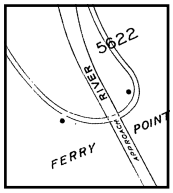

81

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2004

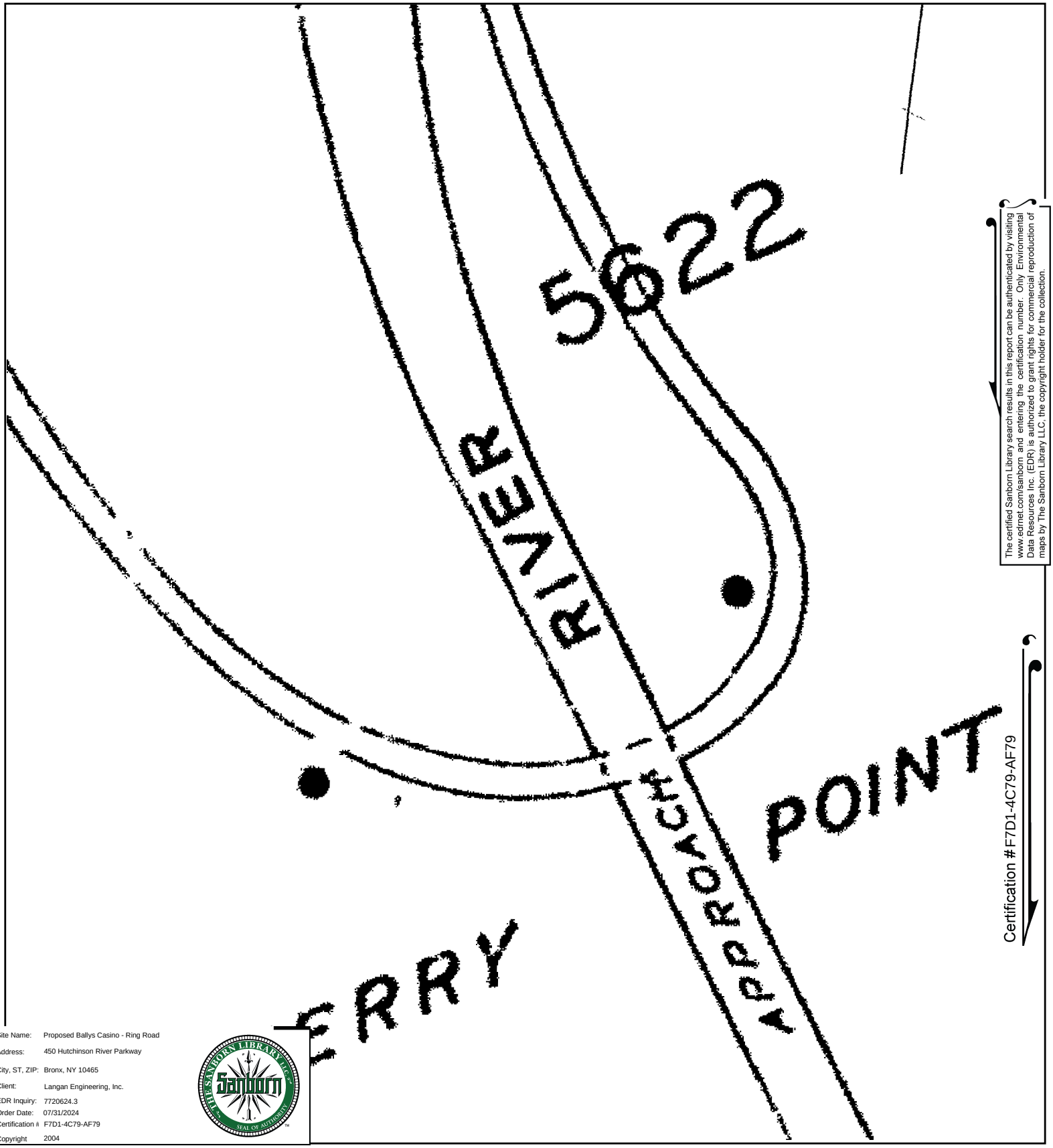

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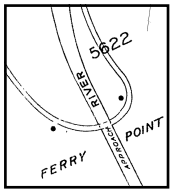

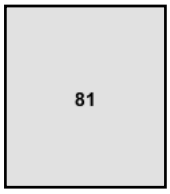

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2003

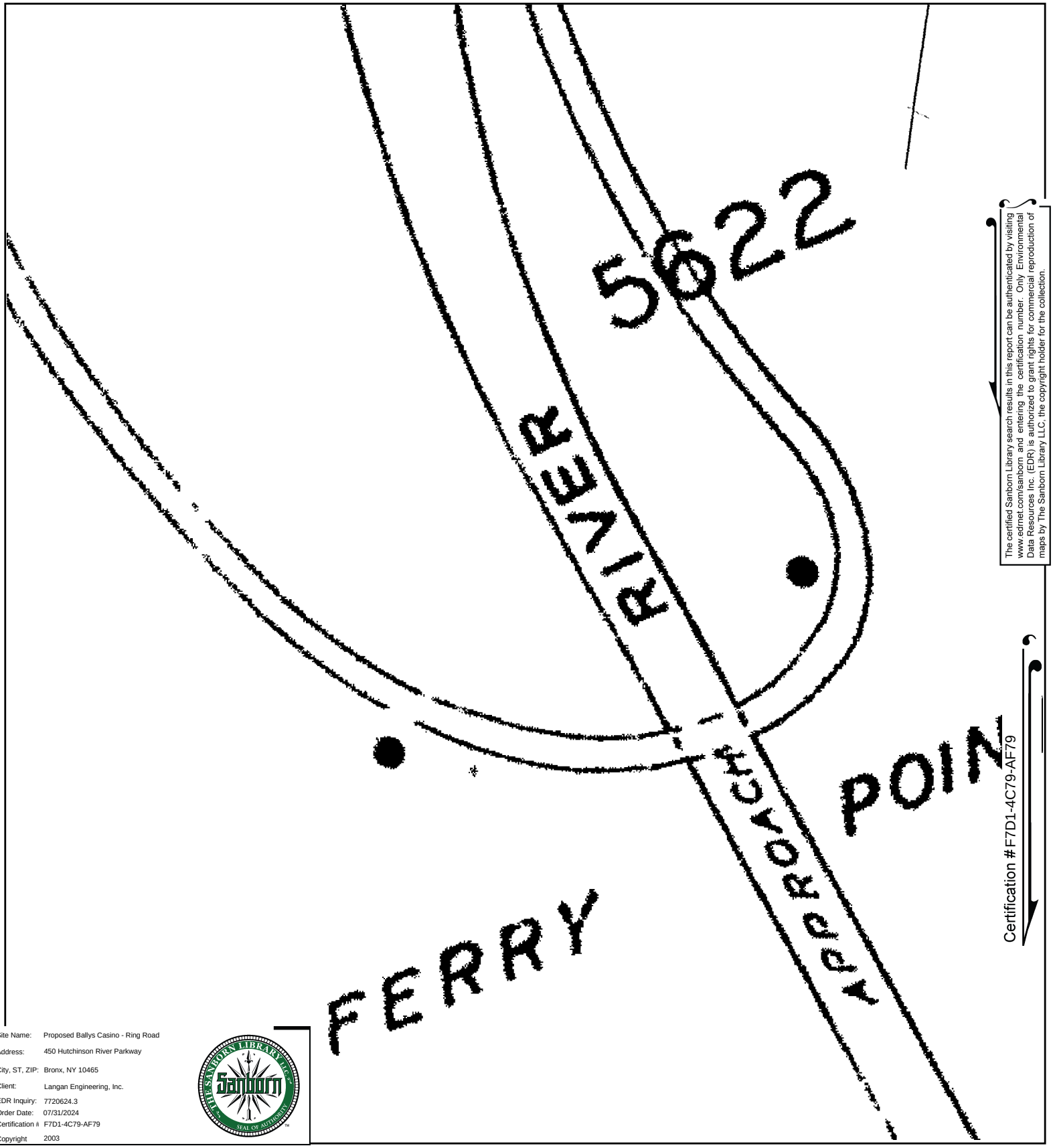

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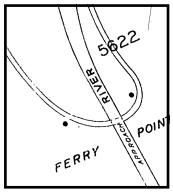

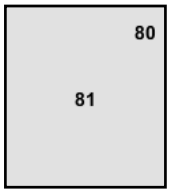

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2002

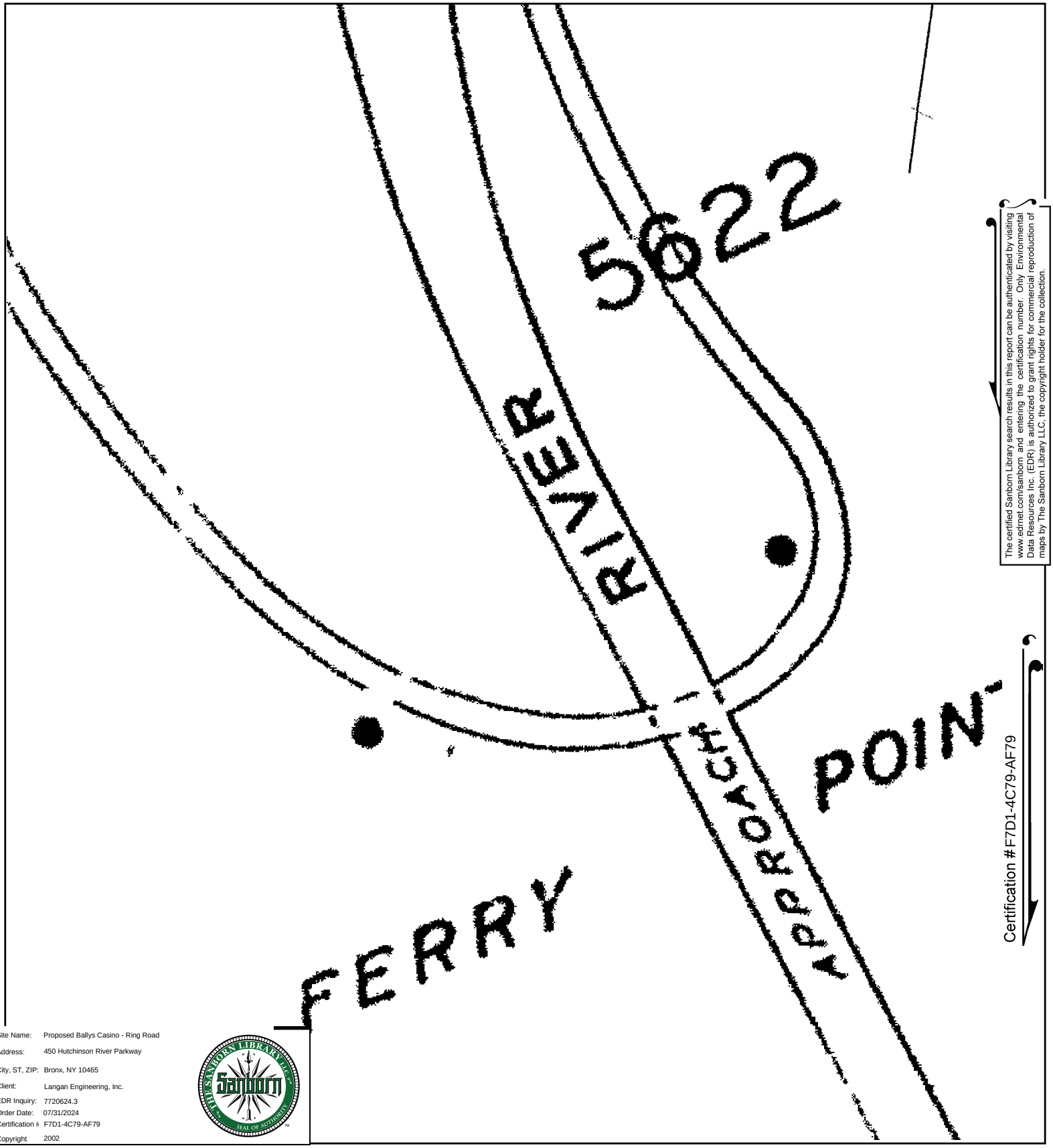

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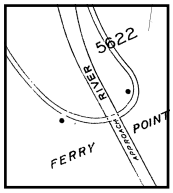

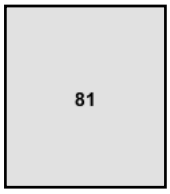

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2001

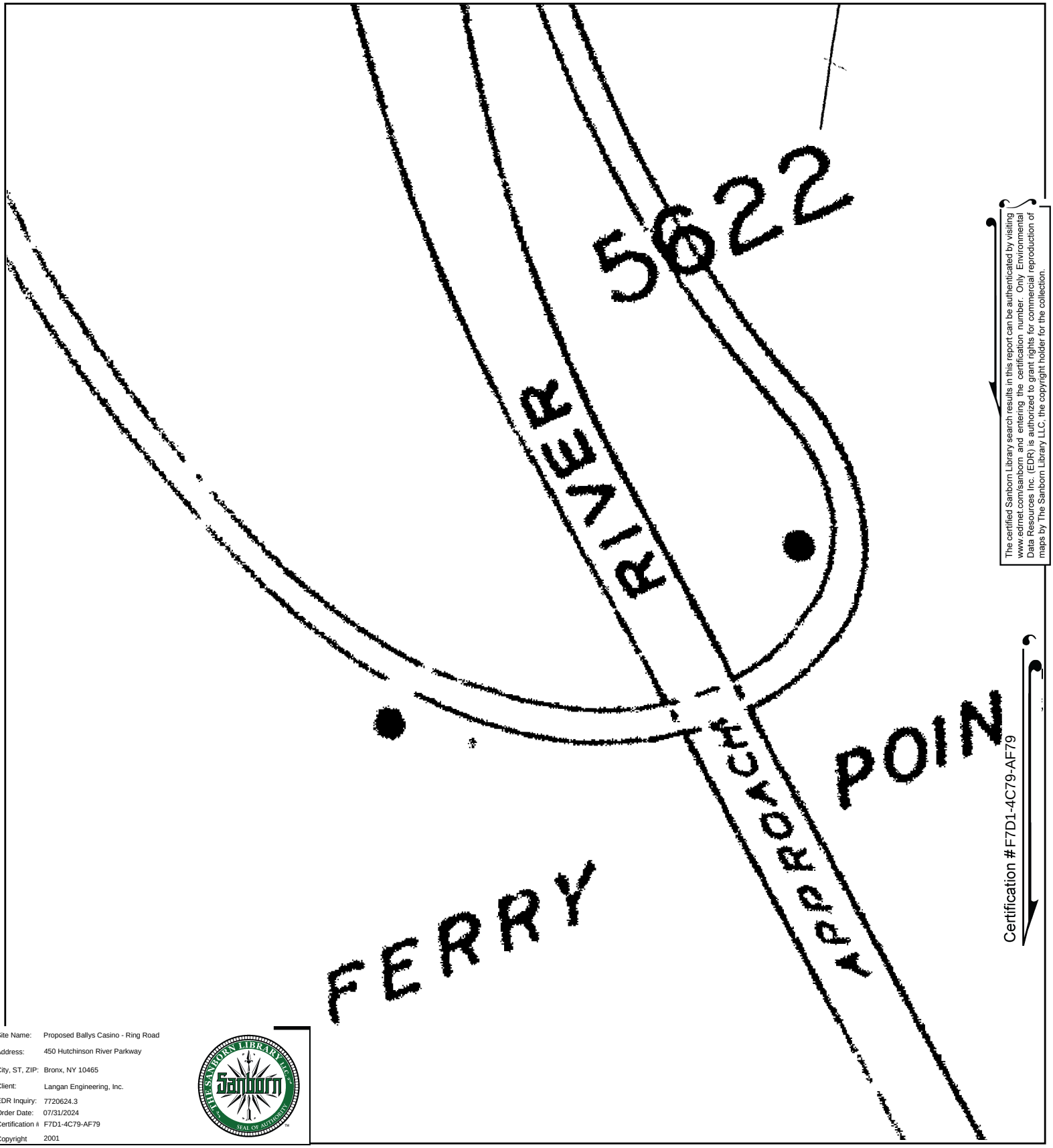

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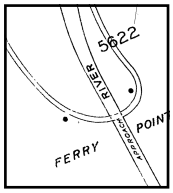

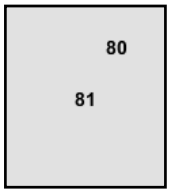

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1998

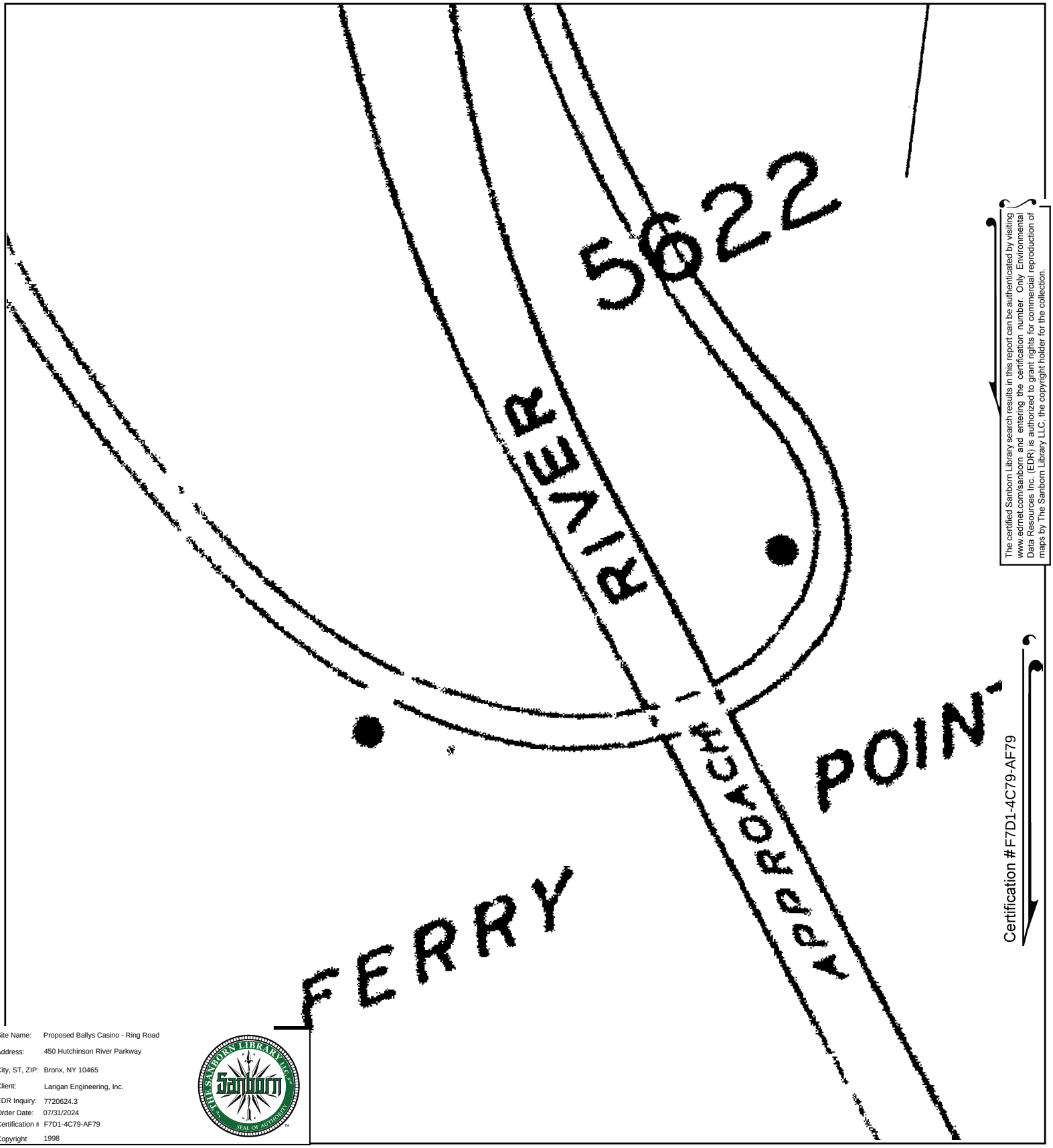

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1998

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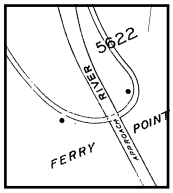

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1996

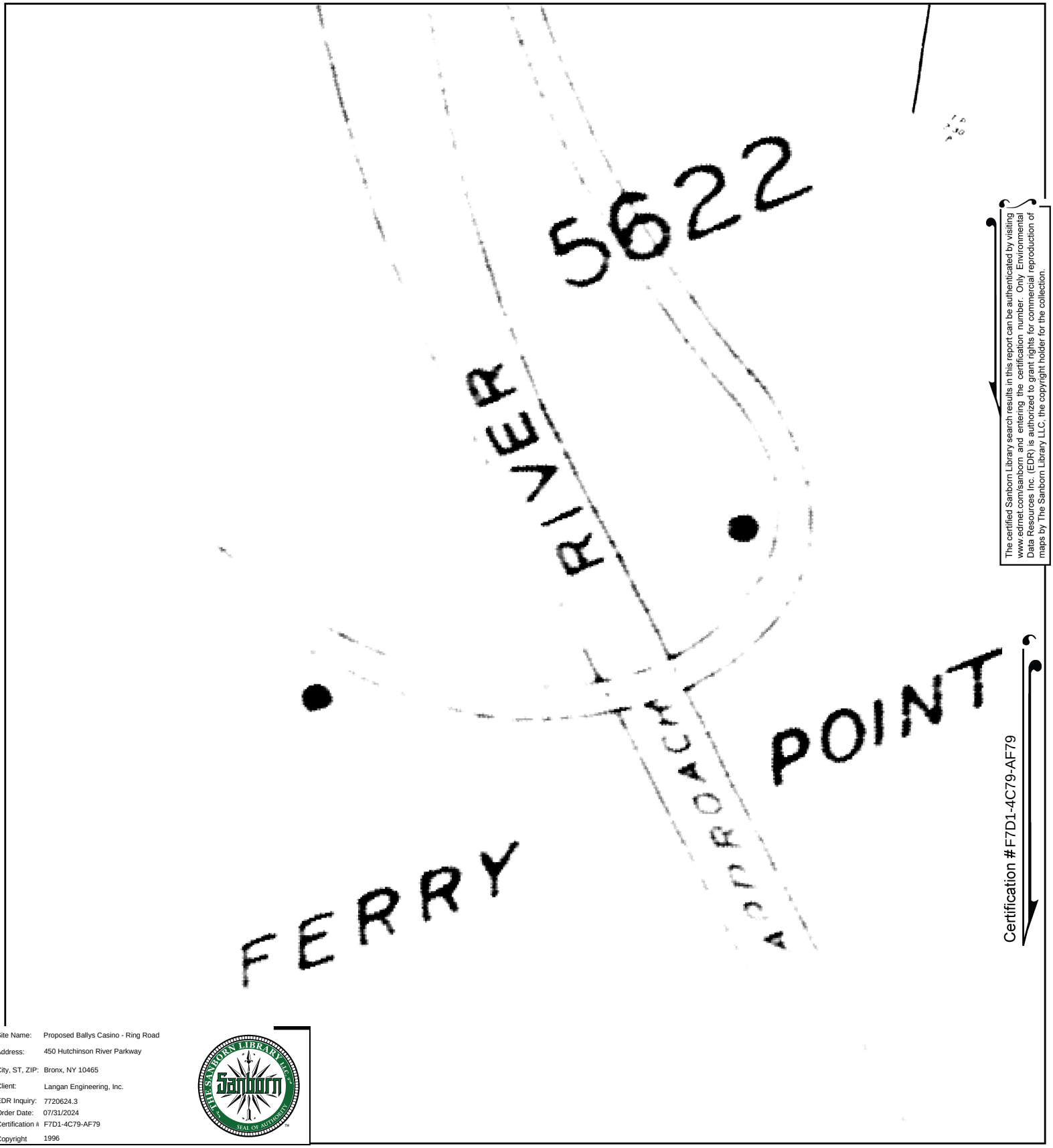

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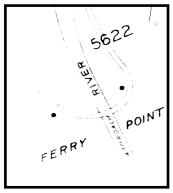

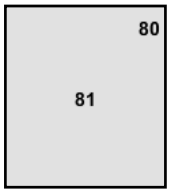

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1995

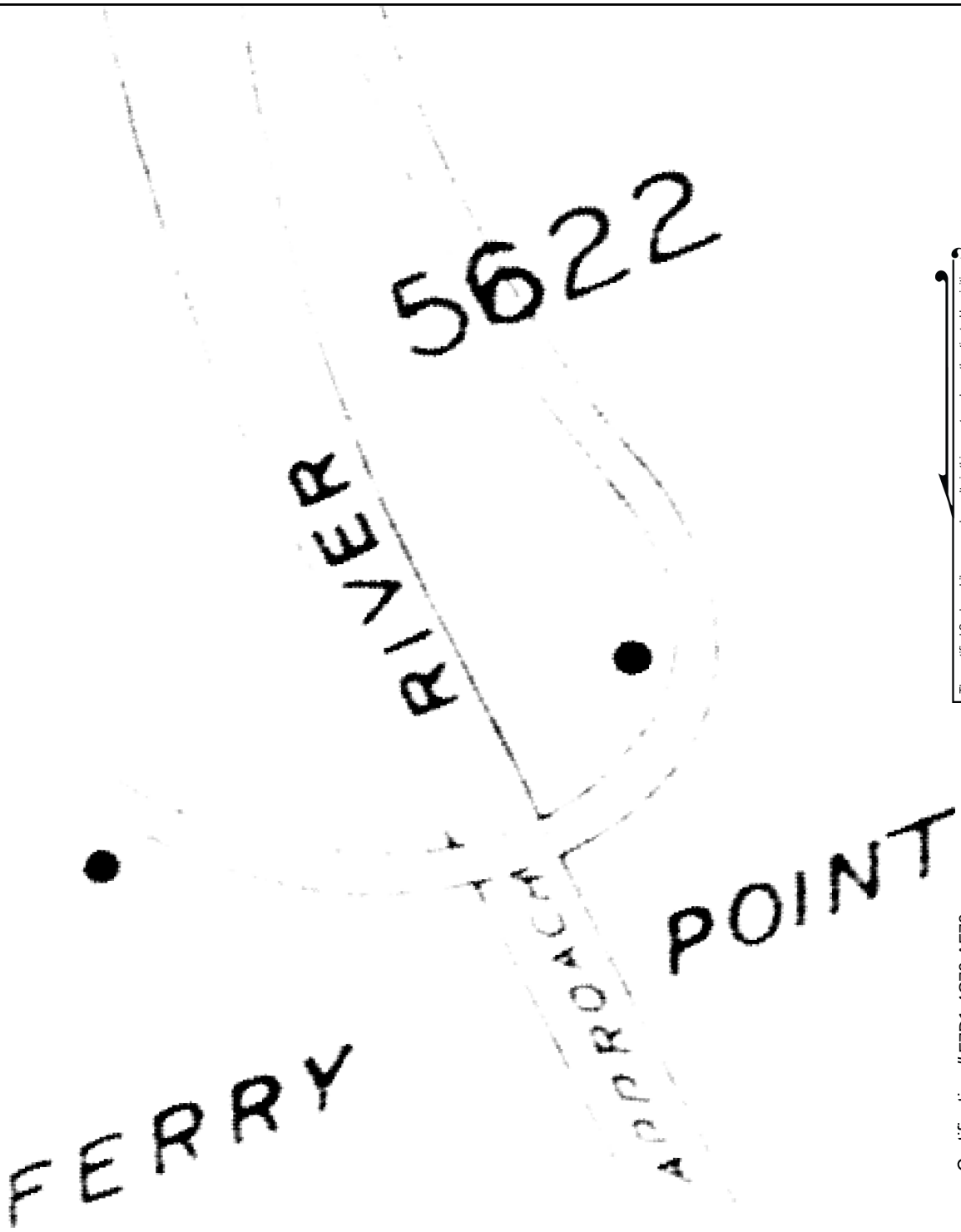

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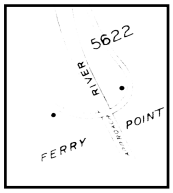

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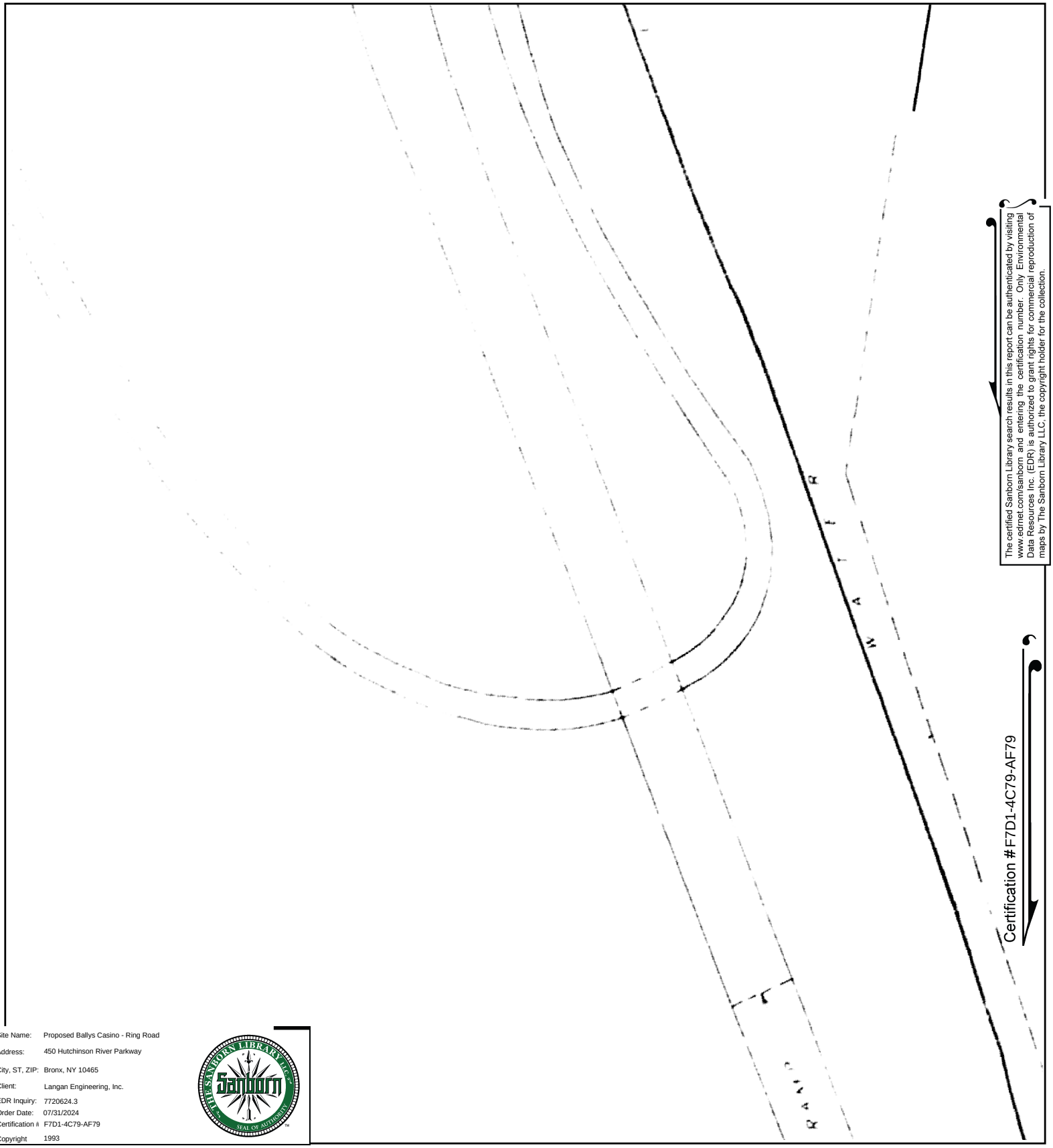

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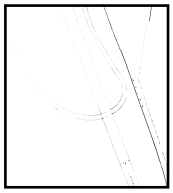

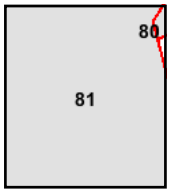

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1992

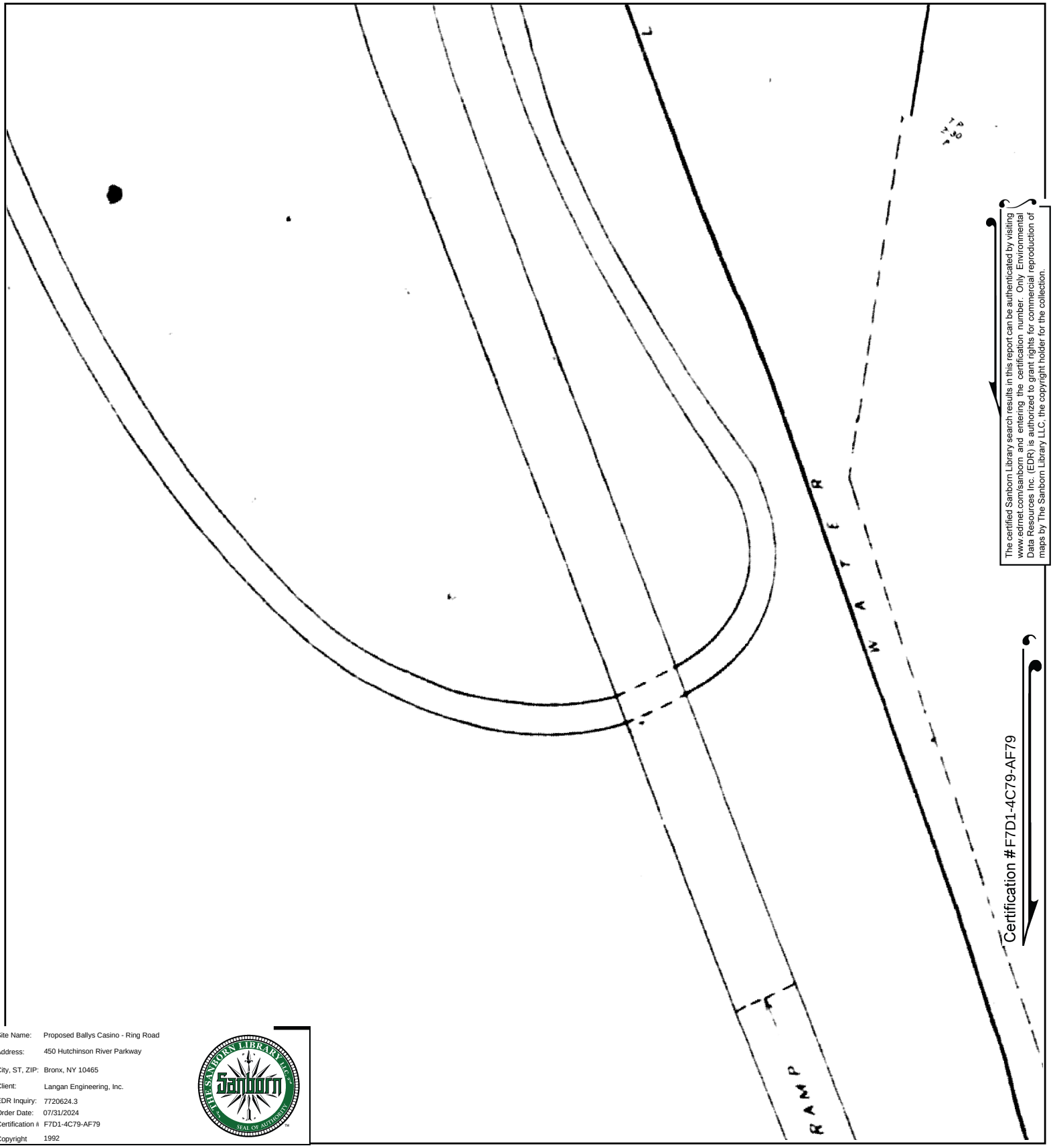

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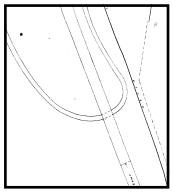

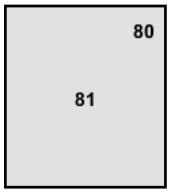

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1991

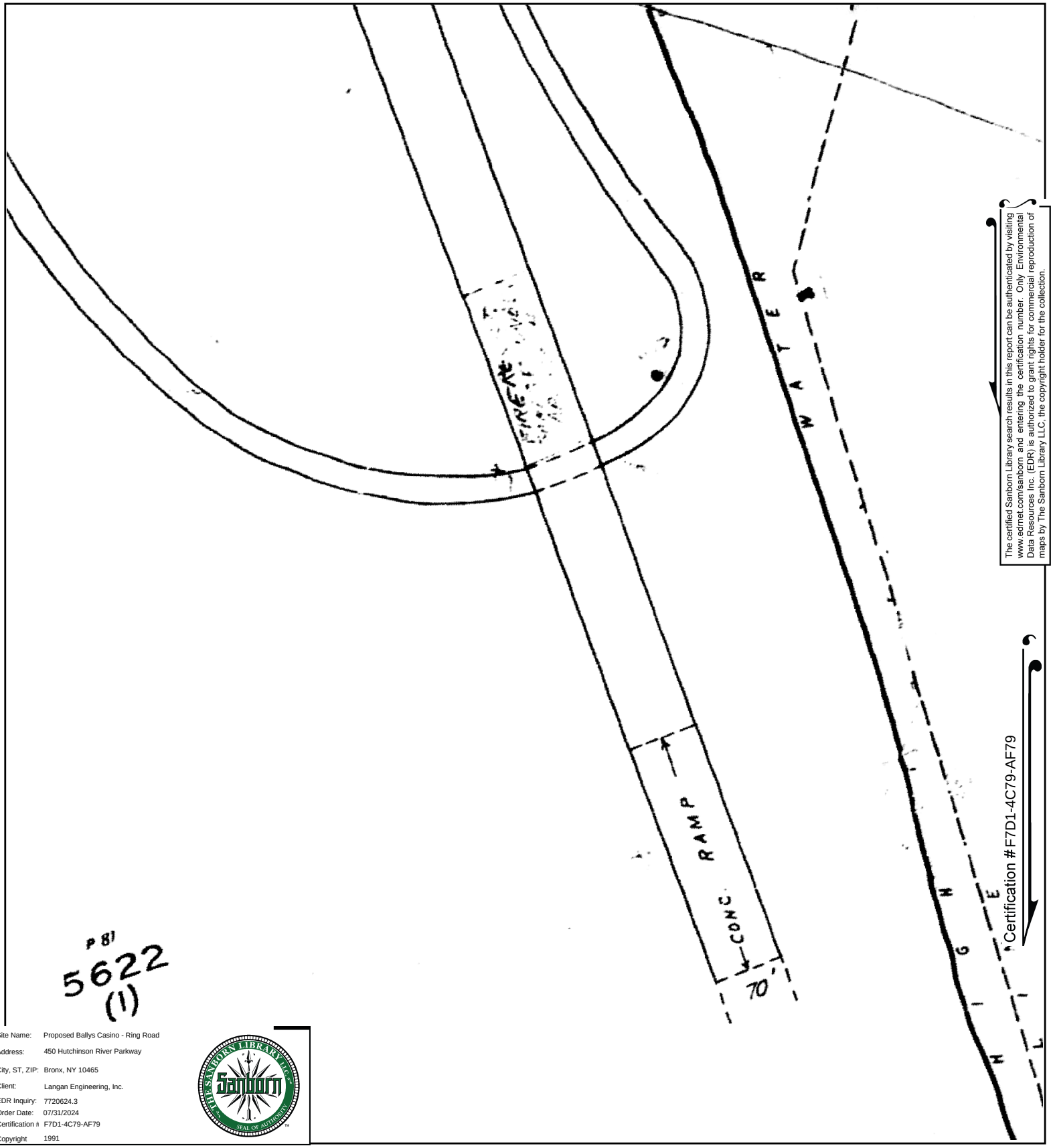

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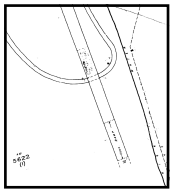

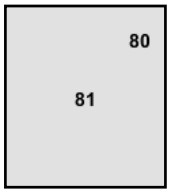

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1988

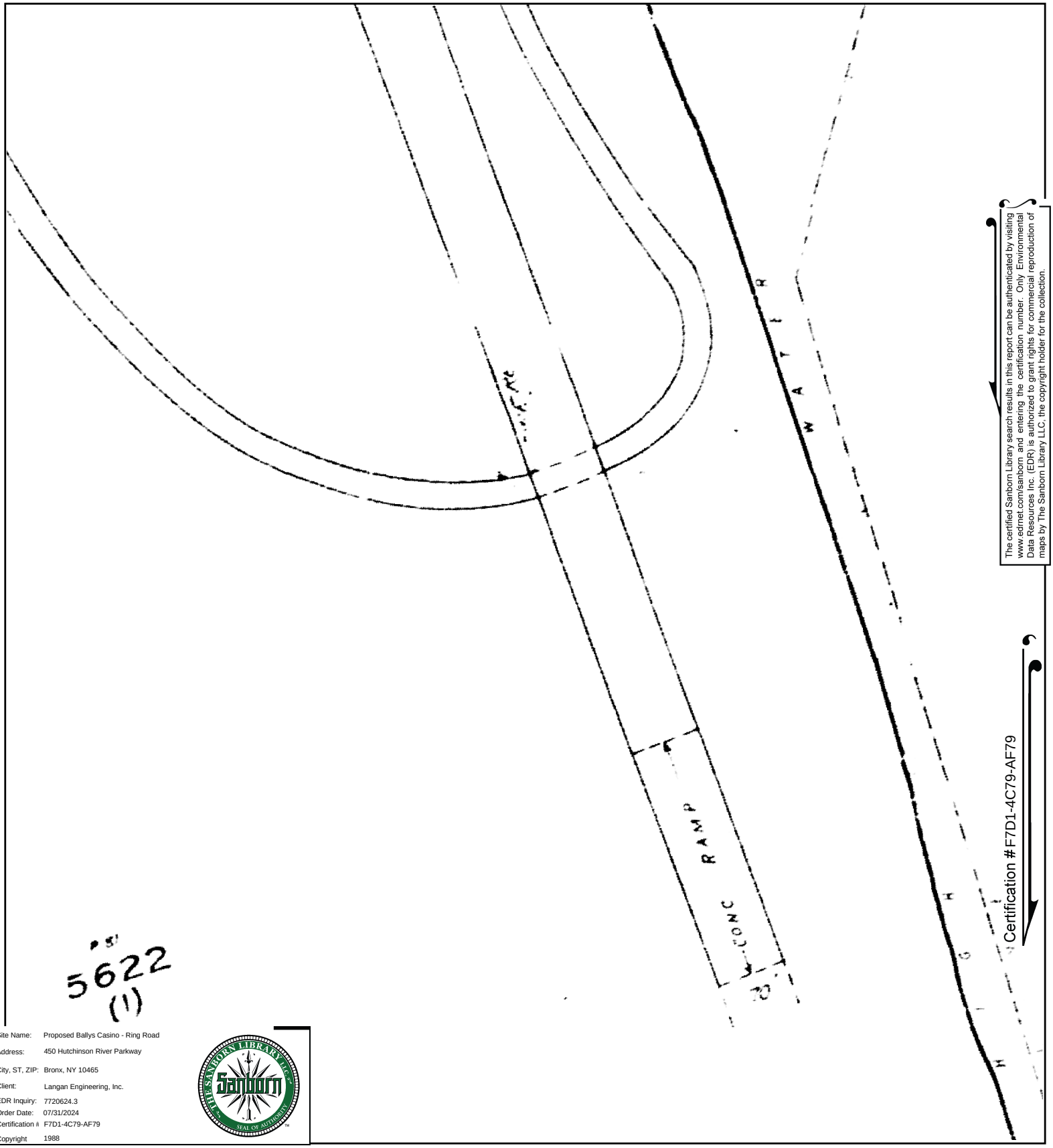

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Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1988

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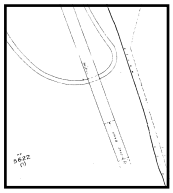

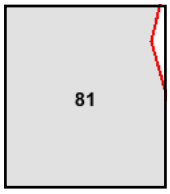

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1986

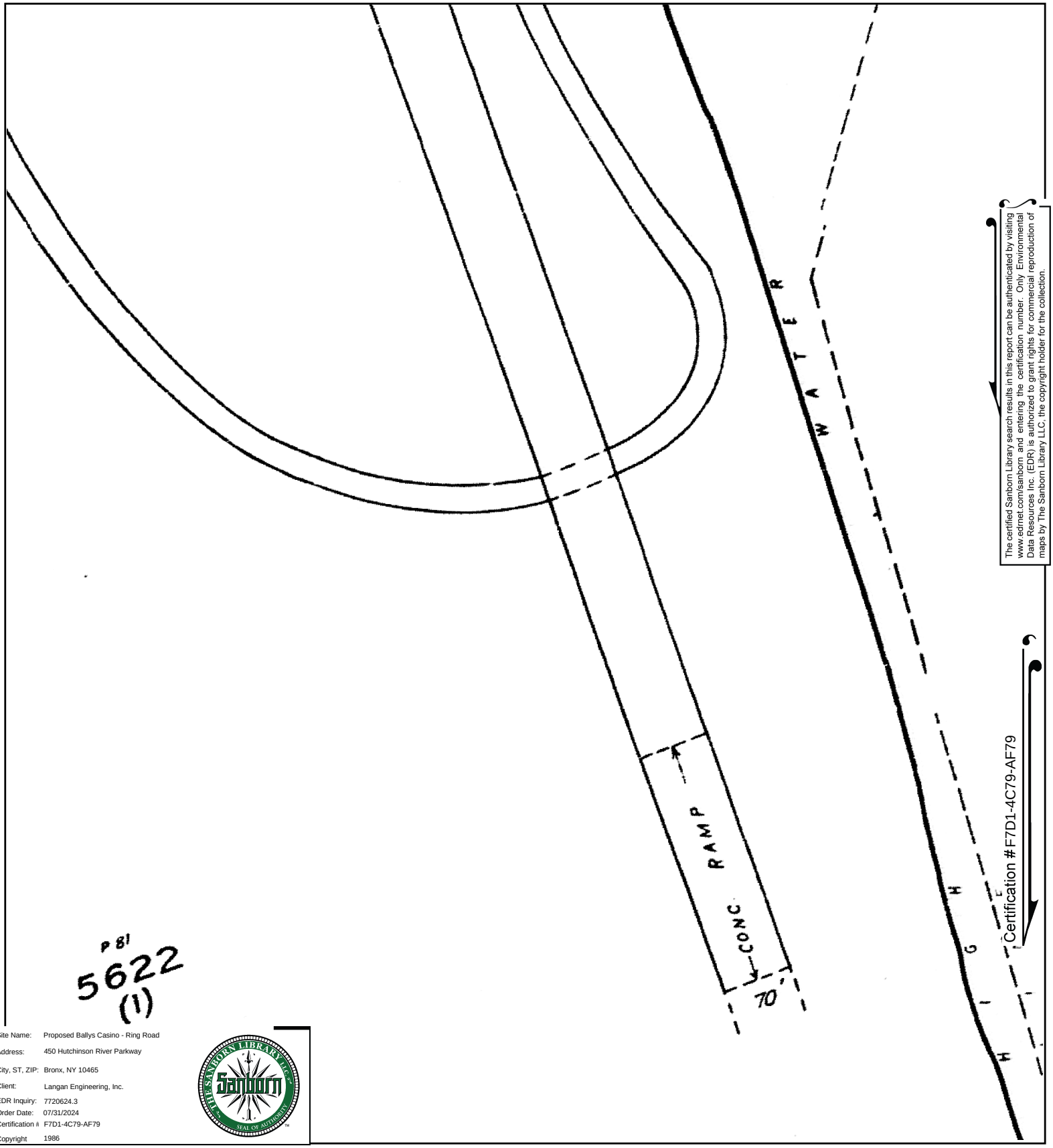

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5622
(1)

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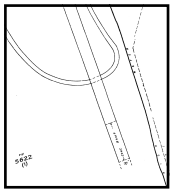

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1983

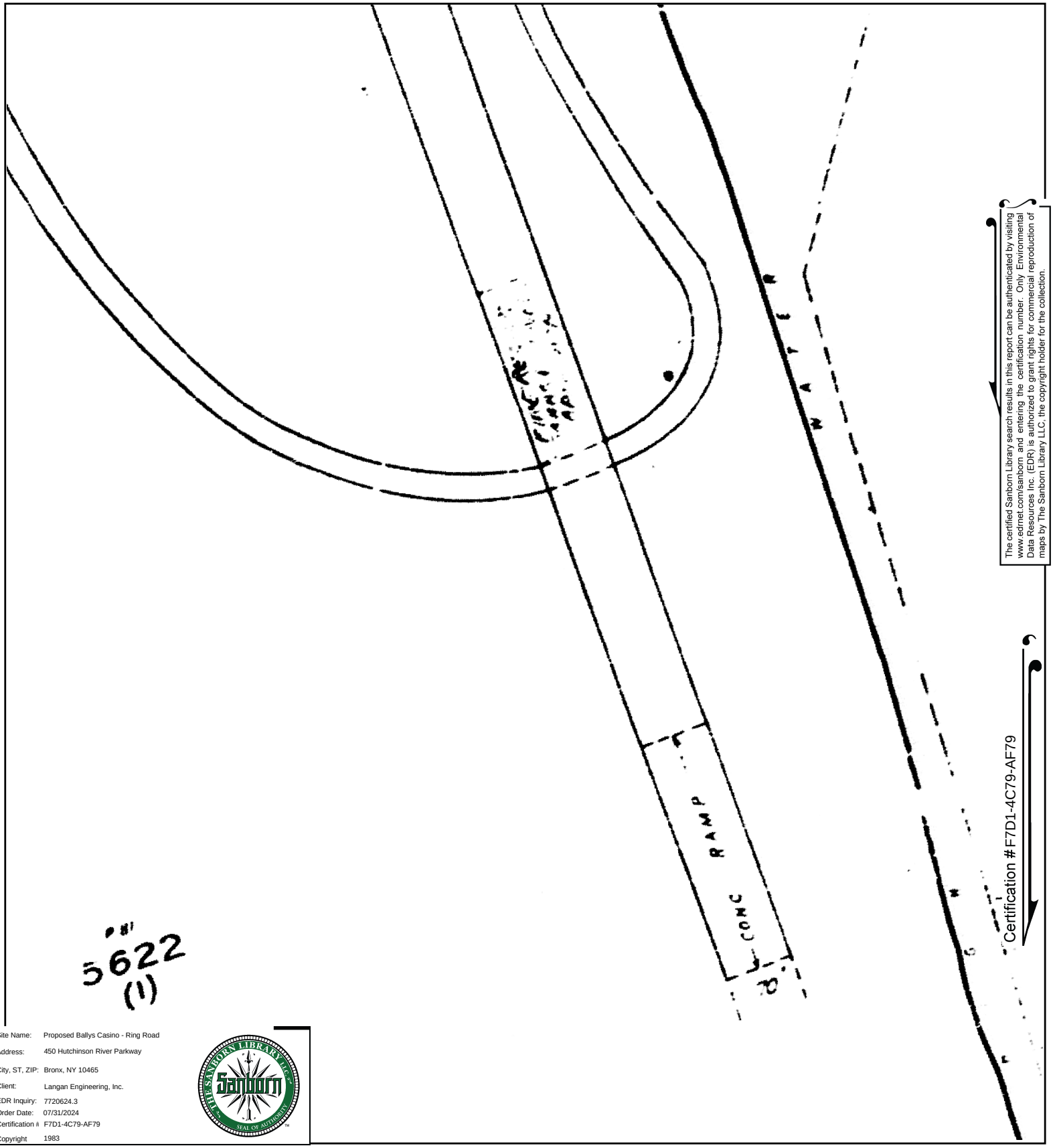

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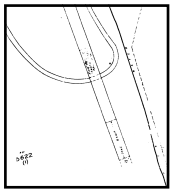

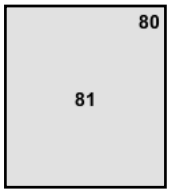

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1981

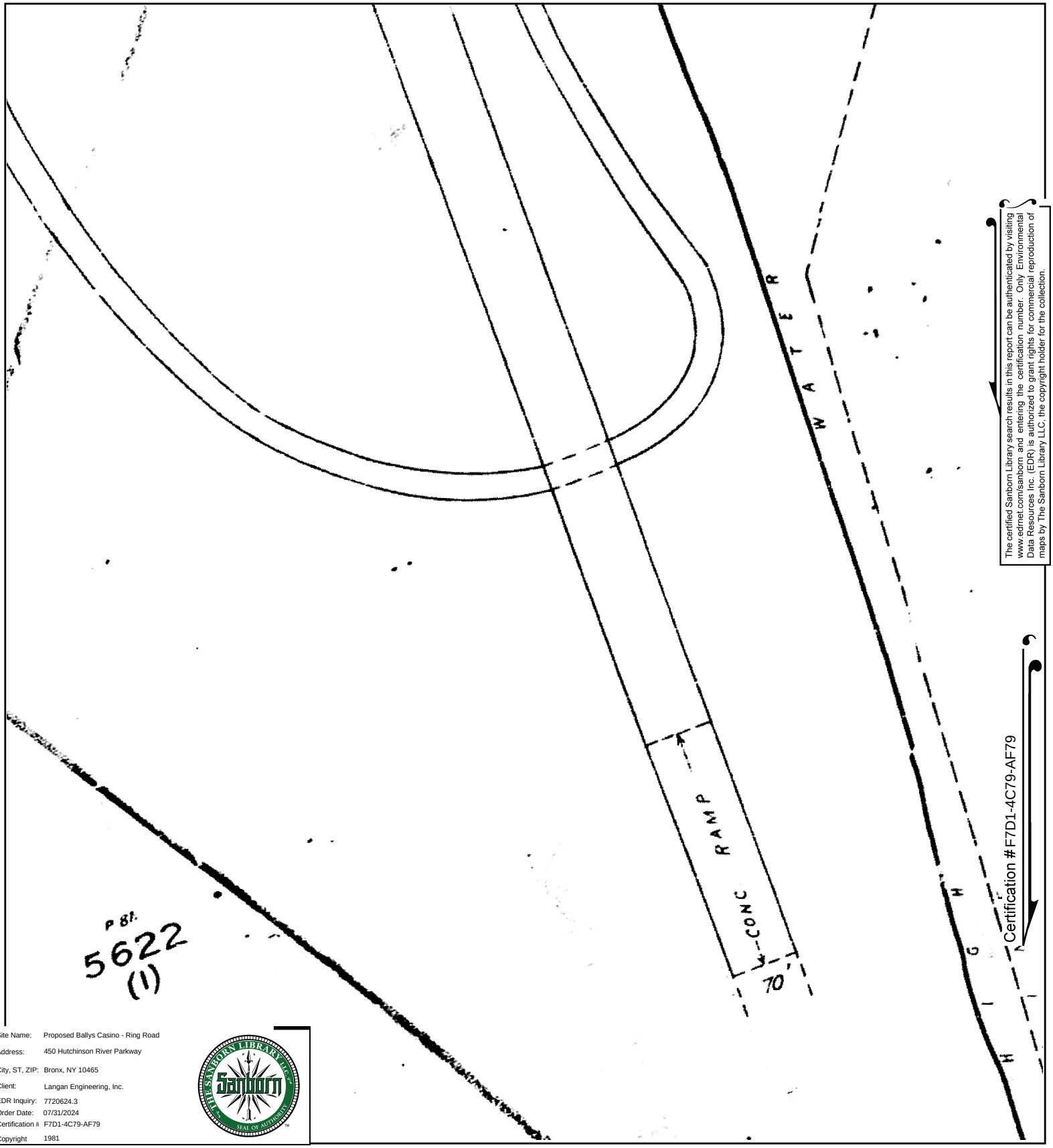

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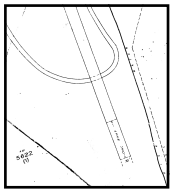

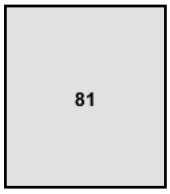

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1978

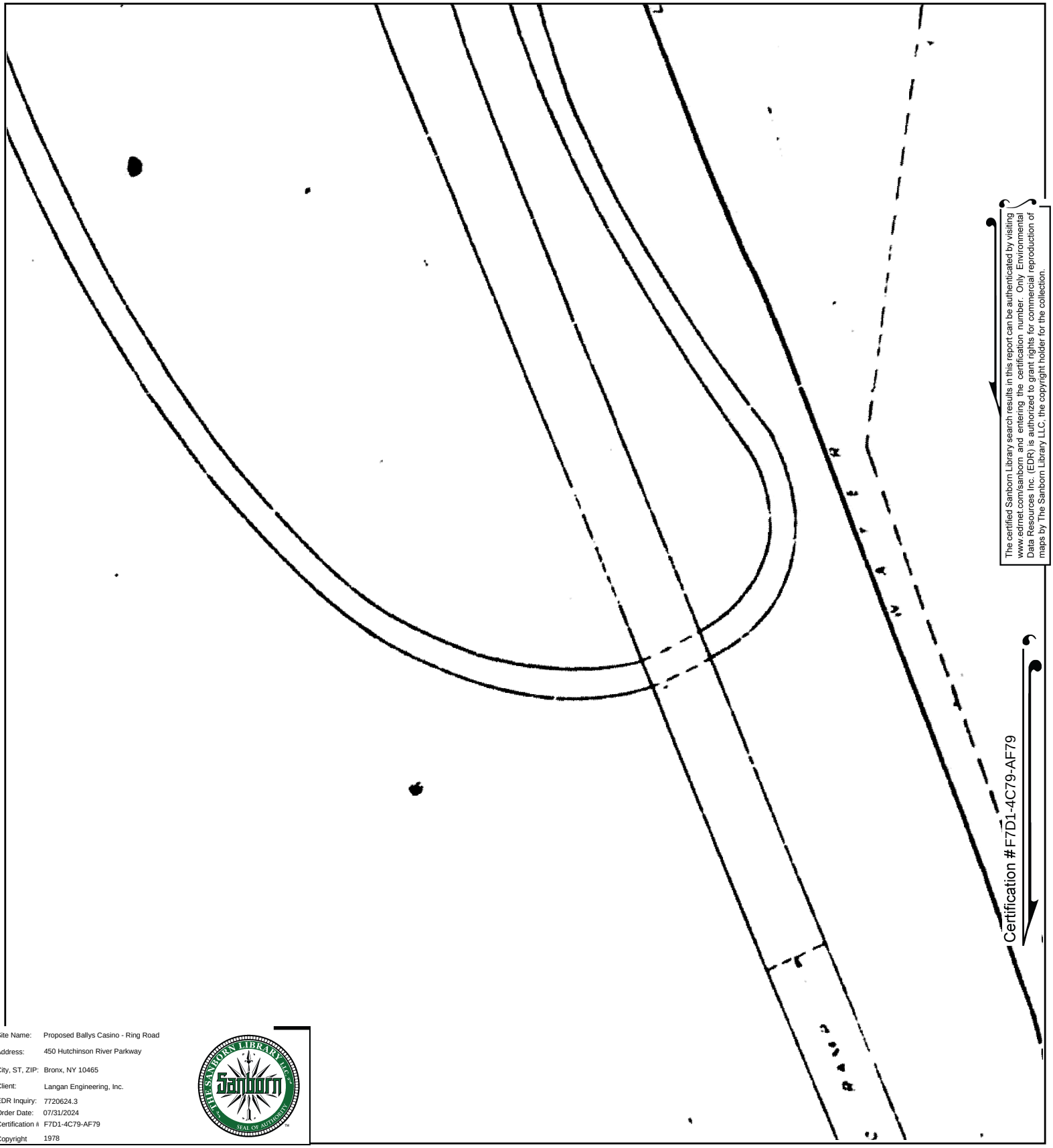

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Copyright	1978

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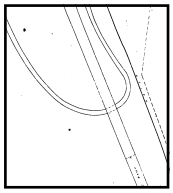

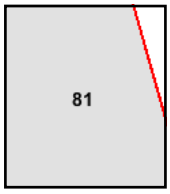

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1977

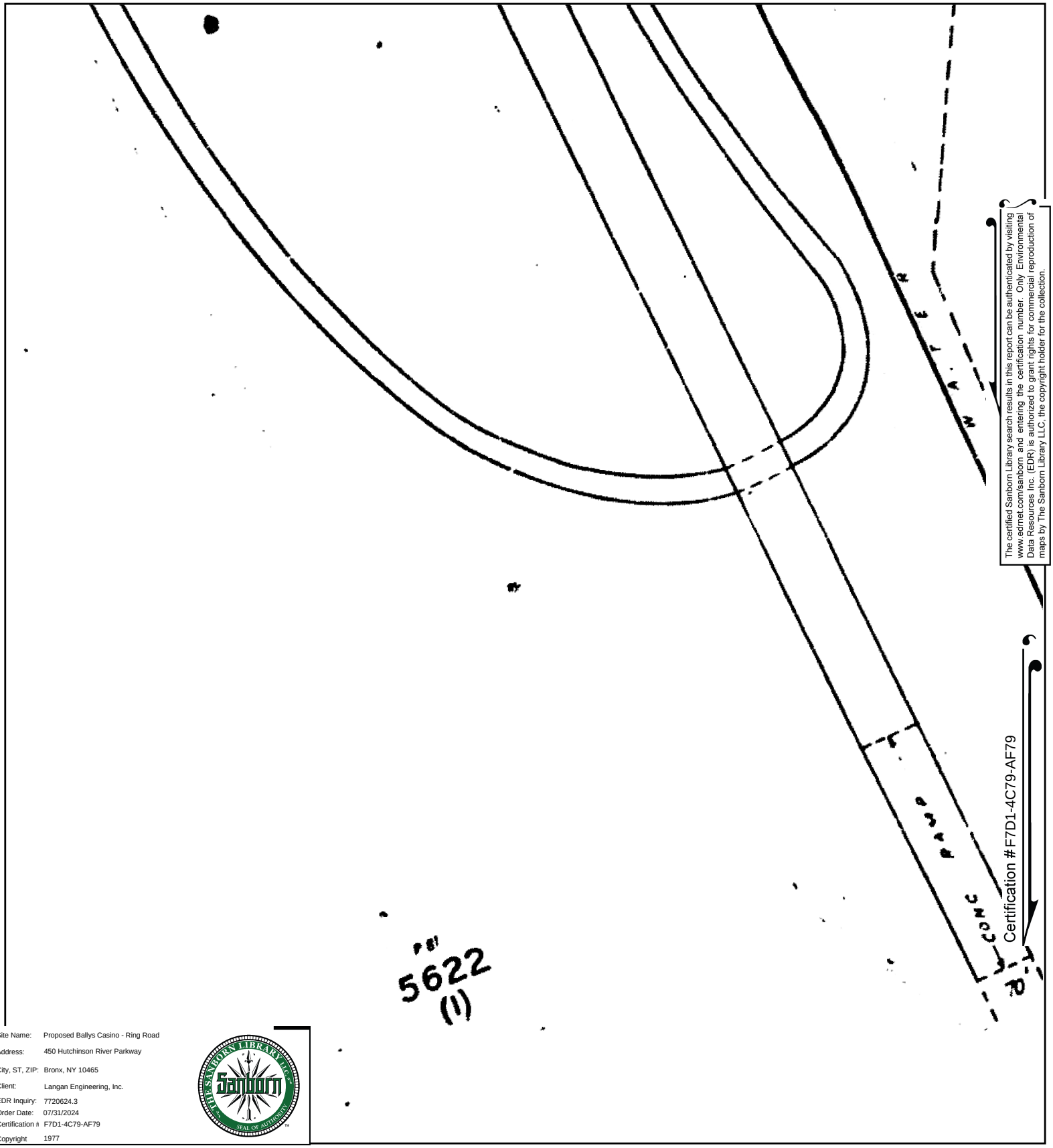

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Copyright	1977

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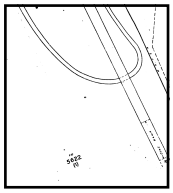

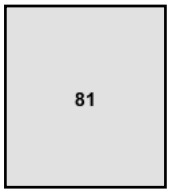

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1967

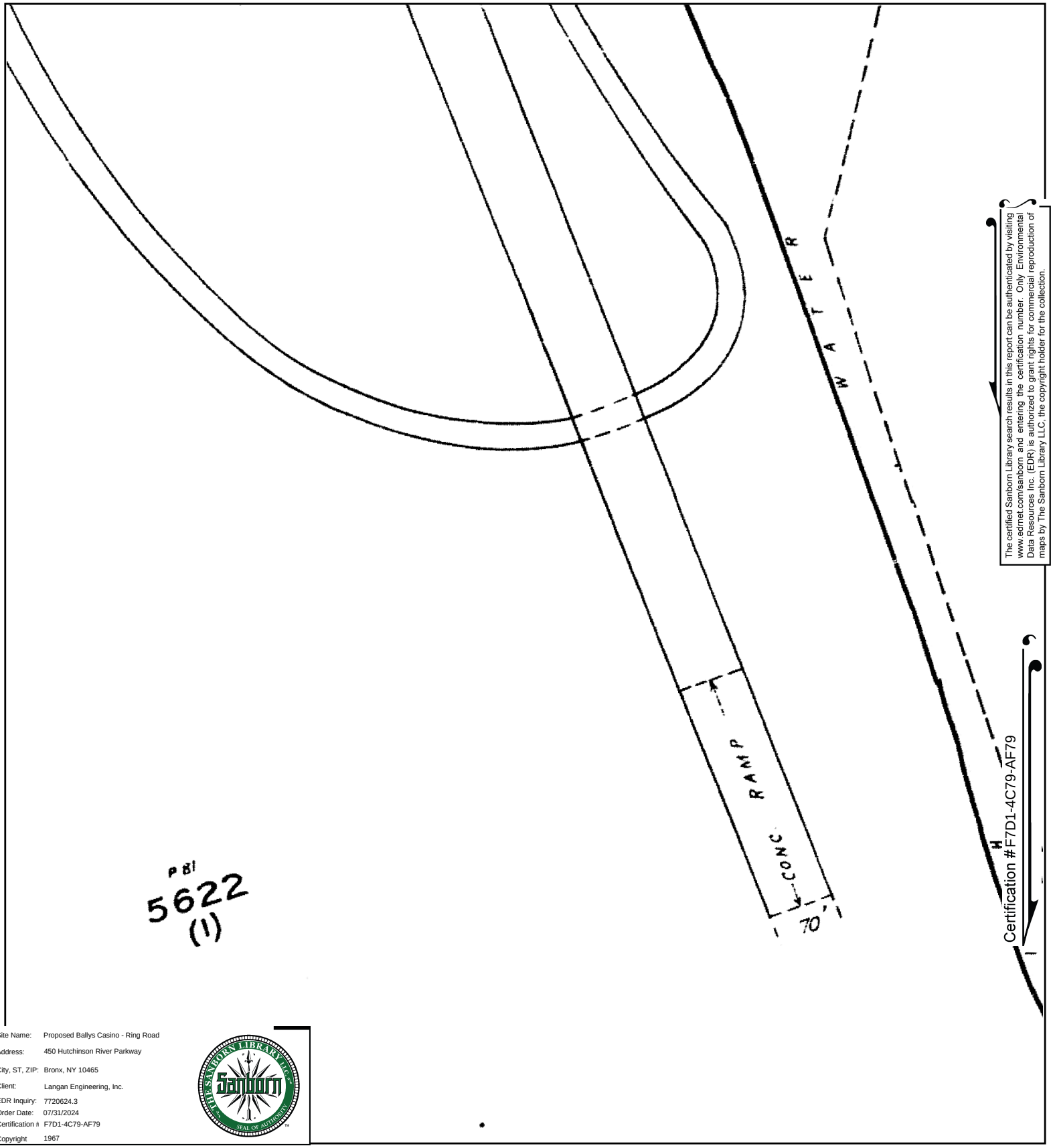

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1967

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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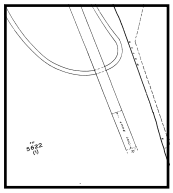

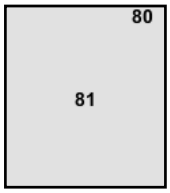

Volume 21, Sheet 81
Volume 21, Sheet 80

N

Certified Sanborn® Map

1950

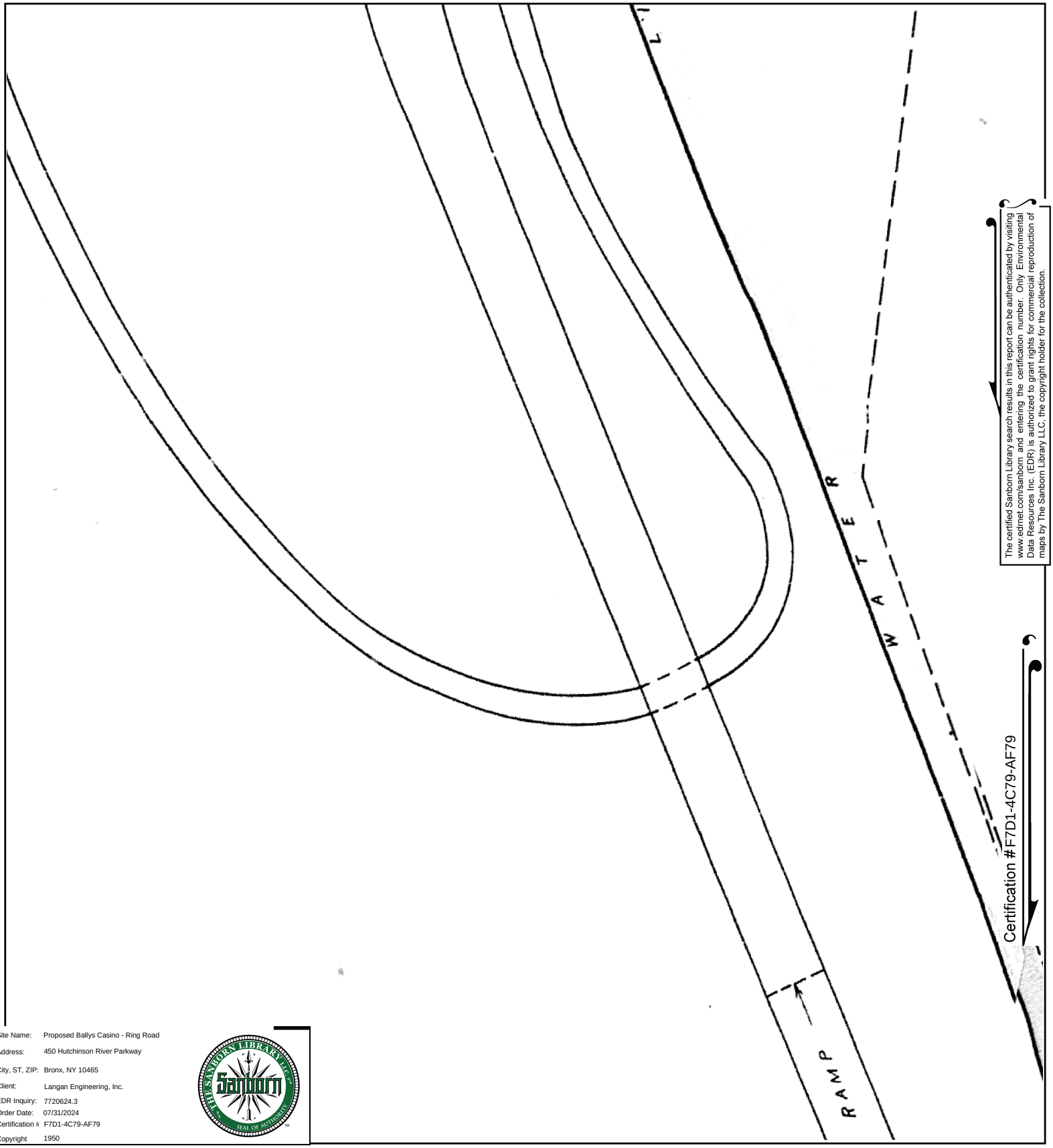

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Certification #F7D1-4C79-AF79

Site Name: Proposed Ballys Casino - Ring Road
Address: 450 Hutchinson River Parkway
City, ST, ZIP: Bronx, NY 10465
Client: Langan Engineering, Inc.
EDR Inquiry: 7720624.3
Order Date: 07/31/2024
Certification # F7D1-4C79-AF79
Copyright 1950

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Outlined areas indicate map sheets within the collection.

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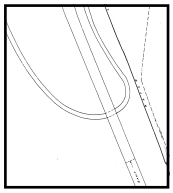

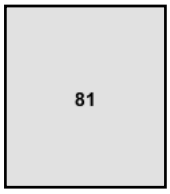

Volume 21, Sheet 81

N

Certified Sanborn® Map

1930

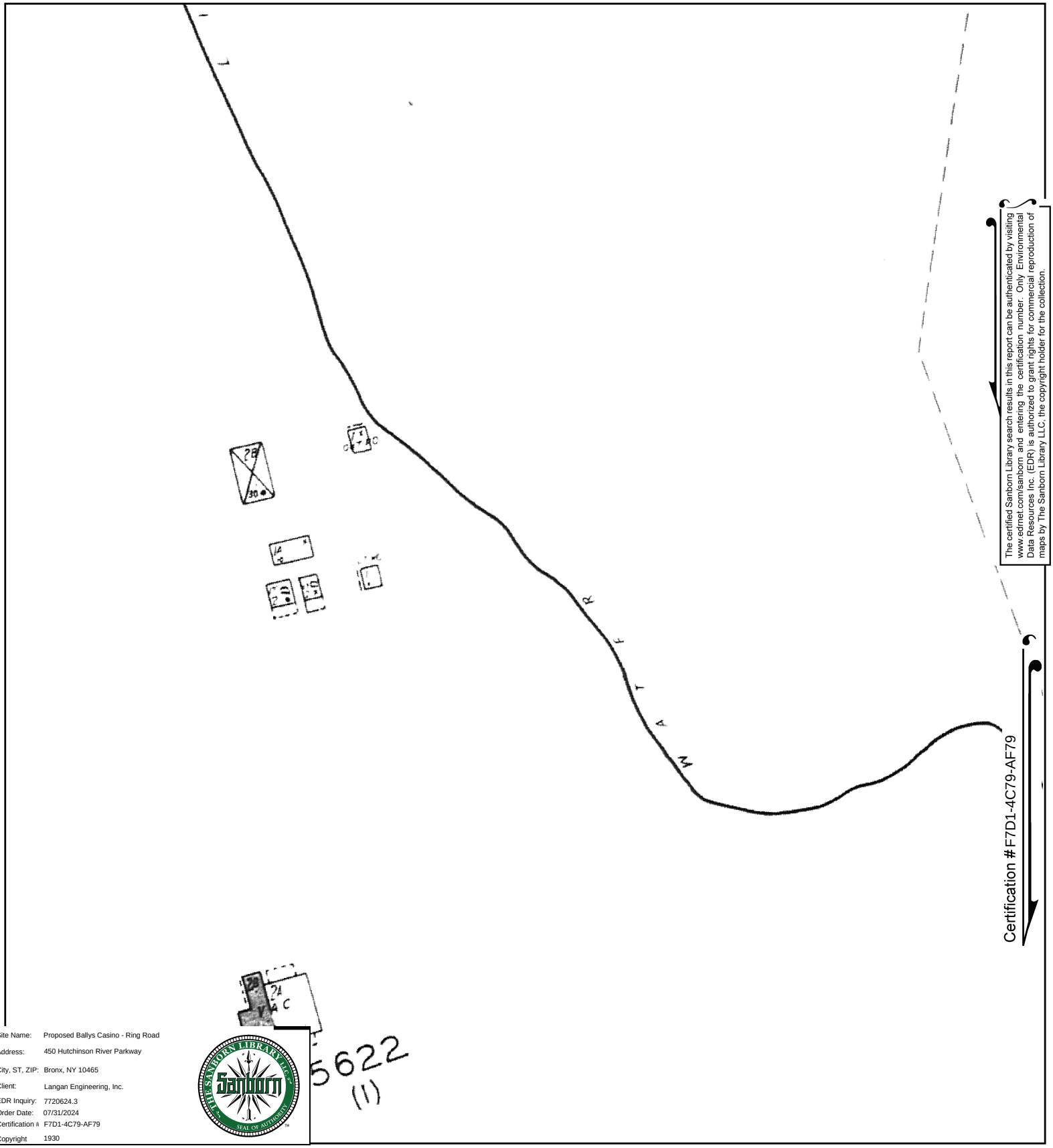

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Certification #F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1930

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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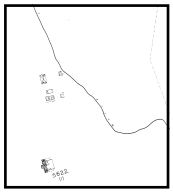

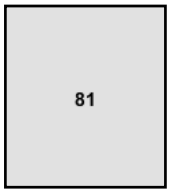

Volume 21, Sheet 79
Volume 21, Sheet 81

N

Certified Sanborn® Map

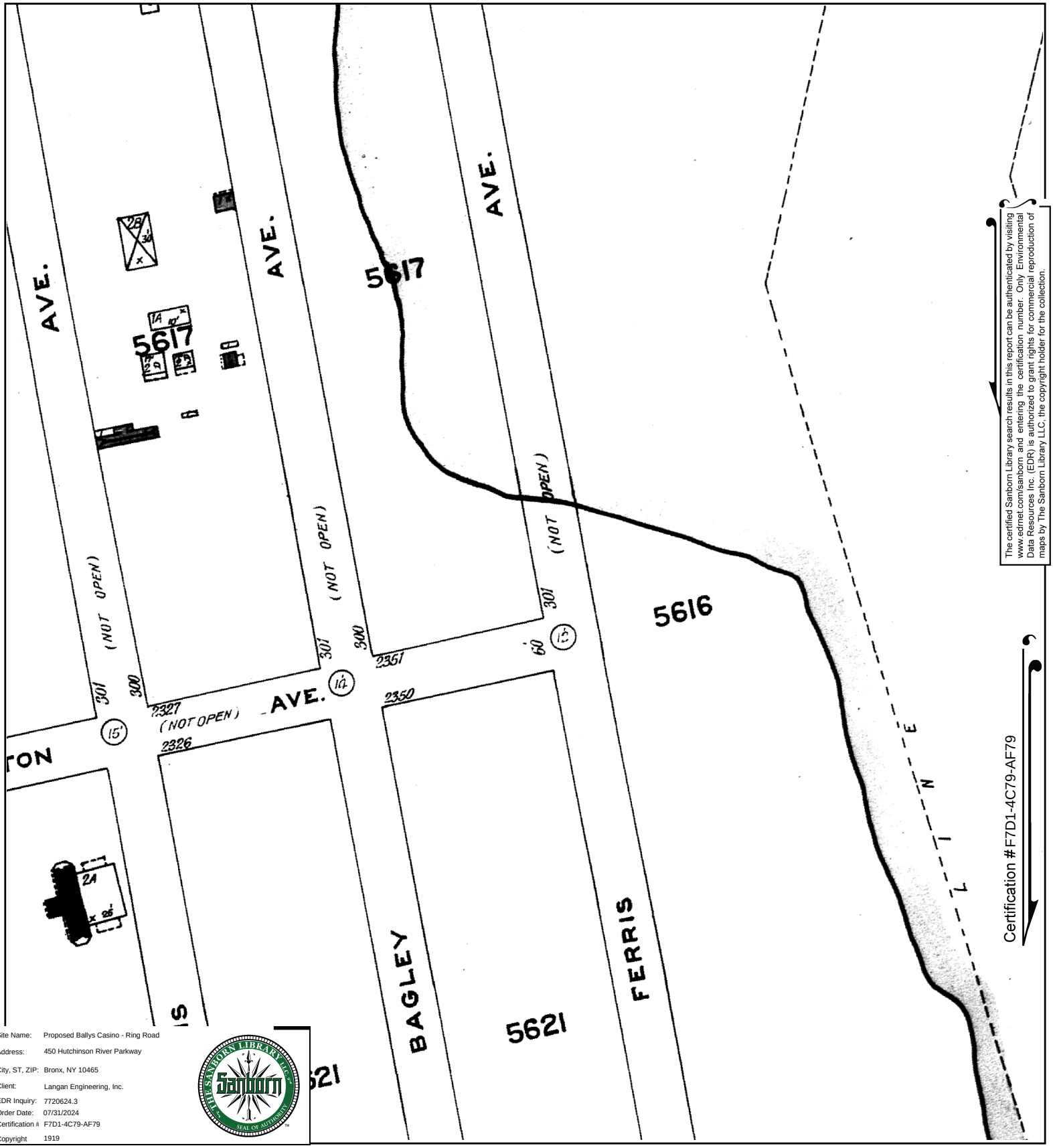

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Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1919

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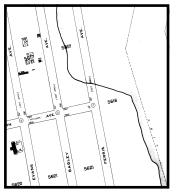

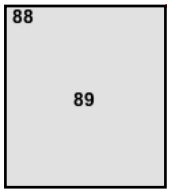

Volume 17, Sheet 88
Volume 17, Sheet 89

0 Feet 150 300 600

N

Certified Sanborn® Map

1908

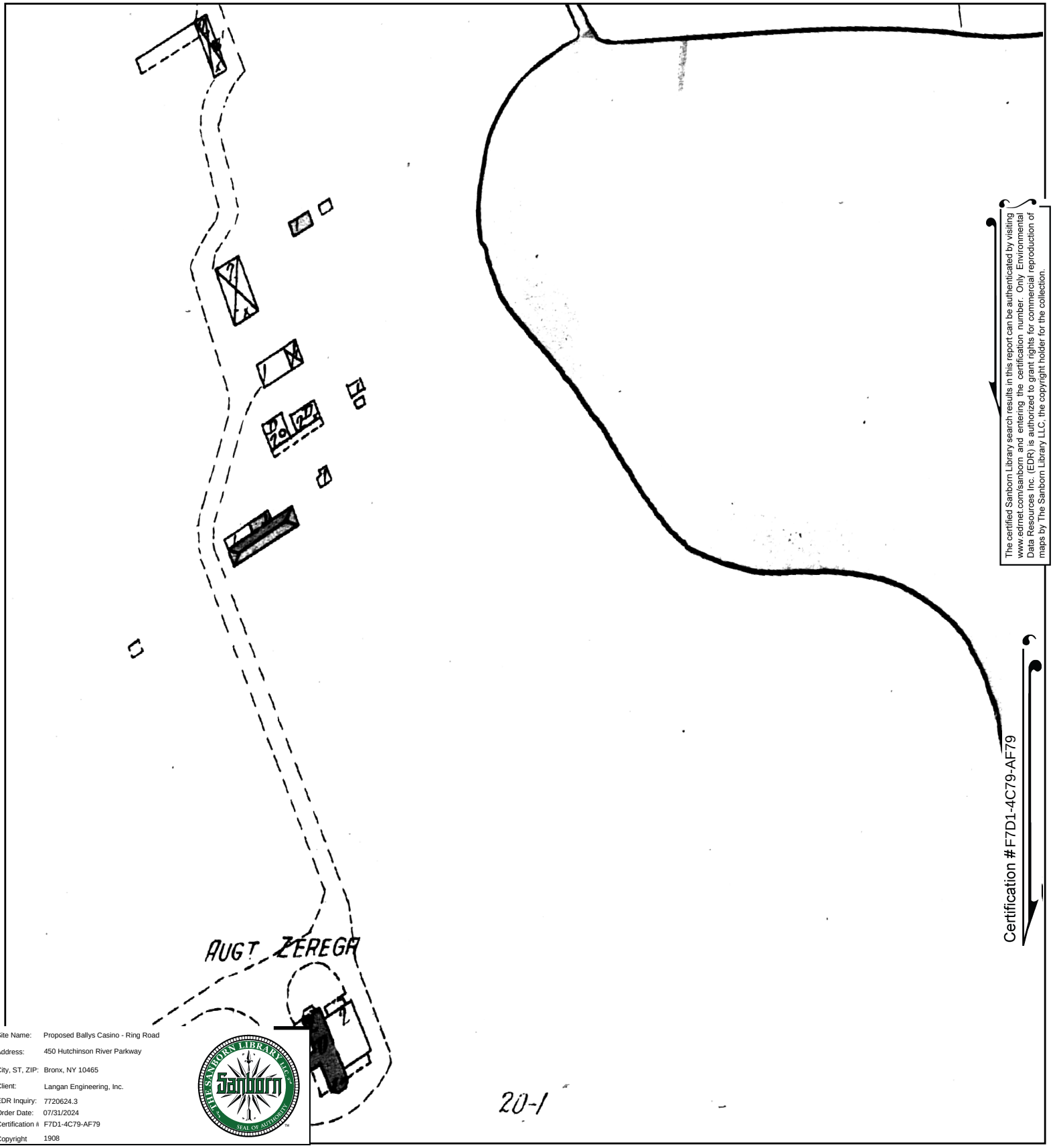

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Certification #F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1908

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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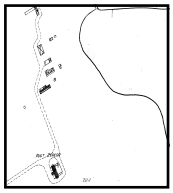

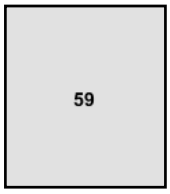

Volume A, Sheet 59

N

Certified Sanborn® Map

1898

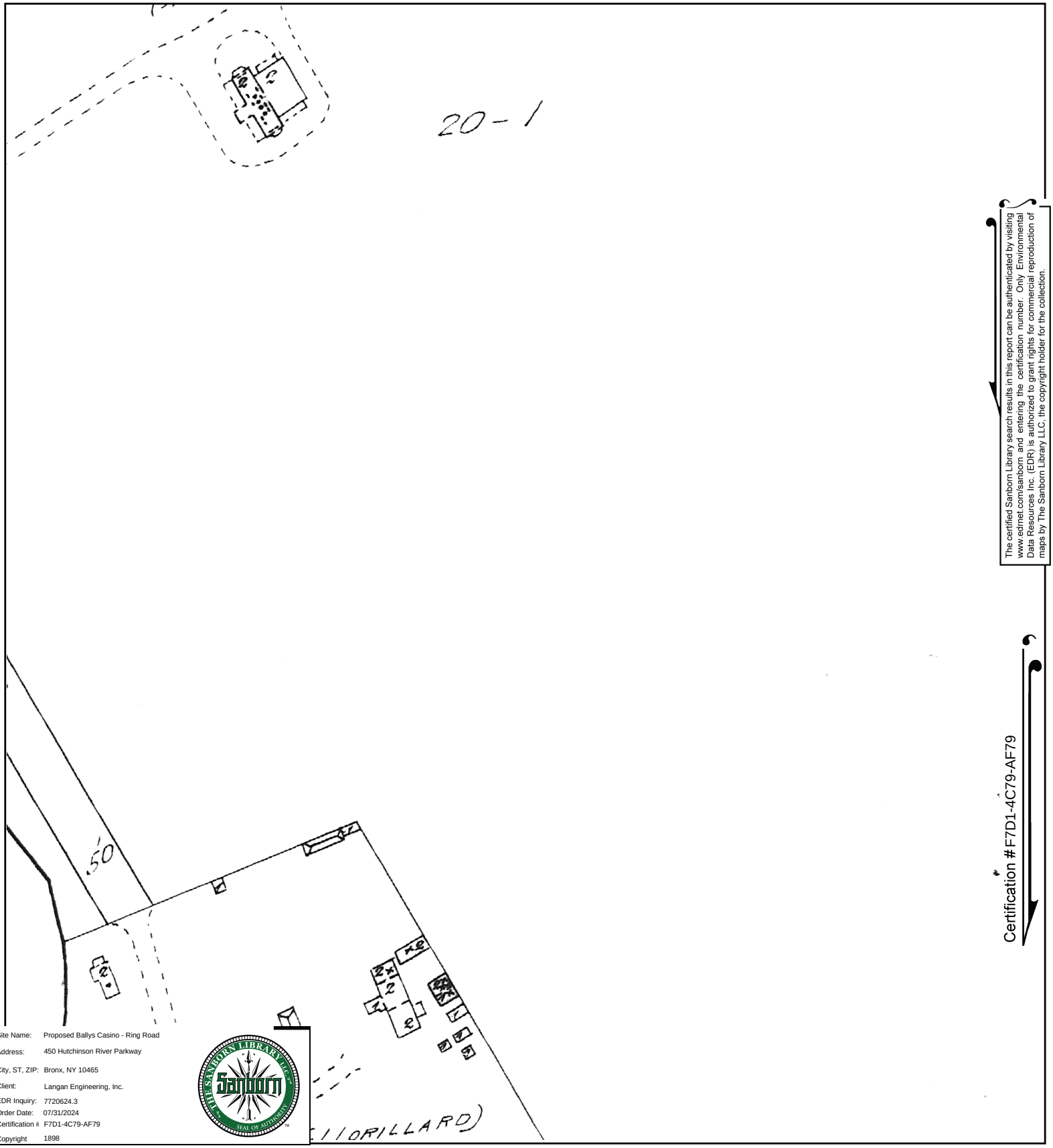

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Certification #F7D1-4C79-AF79

Site Name:	Proposed Ballys Casino - Ring Road
Address:	450 Hutchinson River Parkway
City, ST, ZIP:	Bronx, NY 10465
Client:	Langan Engineering, Inc.
EDR Inquiry:	7720624.3
Order Date:	07/31/2024
Certification #	F7D1-4C79-AF79
Copyright	1898

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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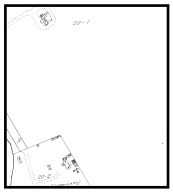

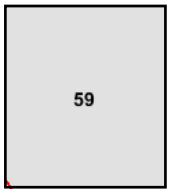

Volume A, Sheet 59

N

Proposed Ballys Casino - Ring Road

450 Hutchinson River Parkway

Bronx, NY 10465

Inquiry Number: 7720624.4

July 29, 2024

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

07/29/24

Site Name:	Client Name:
Proposed Ballys Casino - Ring	Langan Engineering, Inc.
450 Hutchinson River Parkway	360 W. 31st Street
Bronx, NY 10465	New York, NY 10001
EDR Inquiry # 7720624.4	Contact: Kaitlyn Gioia

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Langan Engineering, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	170773001	**Latitude:**	40.813693 40° 48' 49" North
Project:	Prpsd Bally s Casino - Ring Rd	**Longitude:**	-73.835803 -73° 50' 9" West
		UTM Zone:	Zone 18 North
		UTM X Meters:	598186.93
		UTM Y Meters:	4518727.59
		Elevation:	16.00' above sea level

Maps Provided:

2019	1900
2016	1898
2013	1897
1995	
1979	
1966	
1955	
1947	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2019 Source Sheets

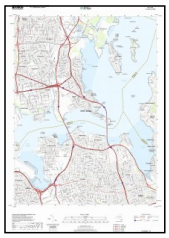

Flushing
2019
7.5-minute, 24000

2016 Source Sheets

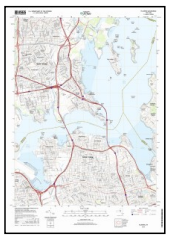

Flushing
2016
7.5-minute, 24000

2013 Source Sheets

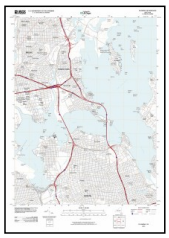

Flushing
2013
7.5-minute, 24000

1995 Source Sheets

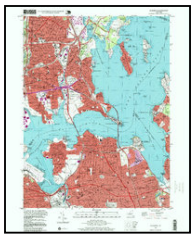

Flushing
1995
7.5-minute, 24000
Aerial Photo Revised 1977

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1979 Source Sheets

Flushing
1979
7.5-minute, 24000
Aerial Photo Revised 1977

1966 Source Sheets

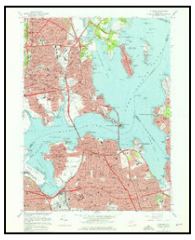

Flushing
1966
7.5-minute, 24000
Aerial Photo Revised 1954

1955 Source Sheets

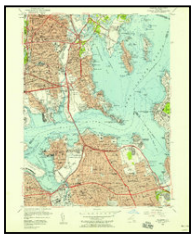

Flushing
1955
7.5-minute, 24000
Aerial Photo Revised 1954

1947 Source Sheets

Flushing
1947
7.5-minute, 24000
Aerial Photo Revised 1942

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1900 Source Sheets

Harlem
1900
15-minute, 62500

1898 Source Sheets

Harlem
1898
15-minute, 62500

1897 Source Sheets

Harlem
1897
15-minute, 62500

Historical Topo Map

2019

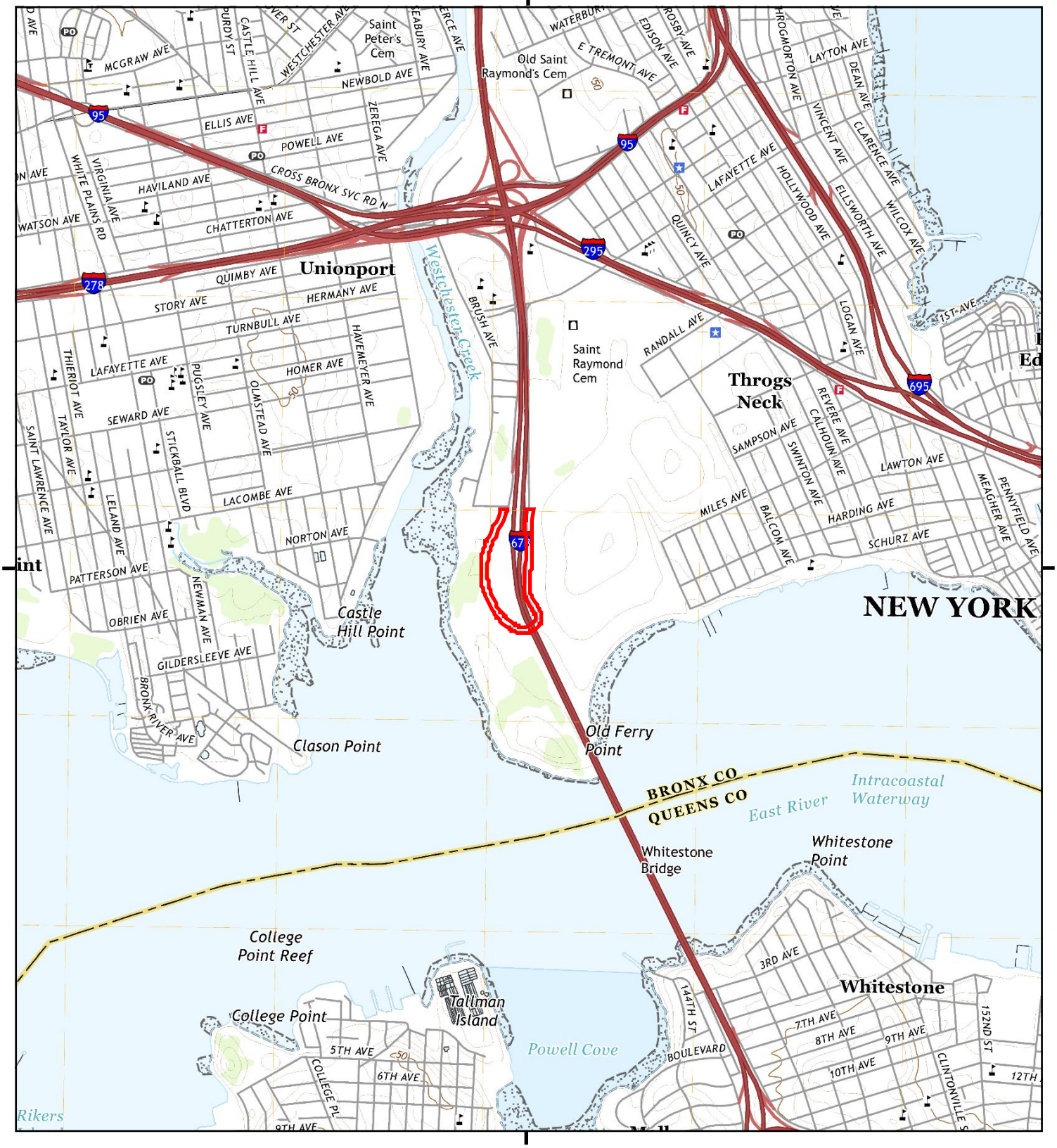

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 2019, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

2016

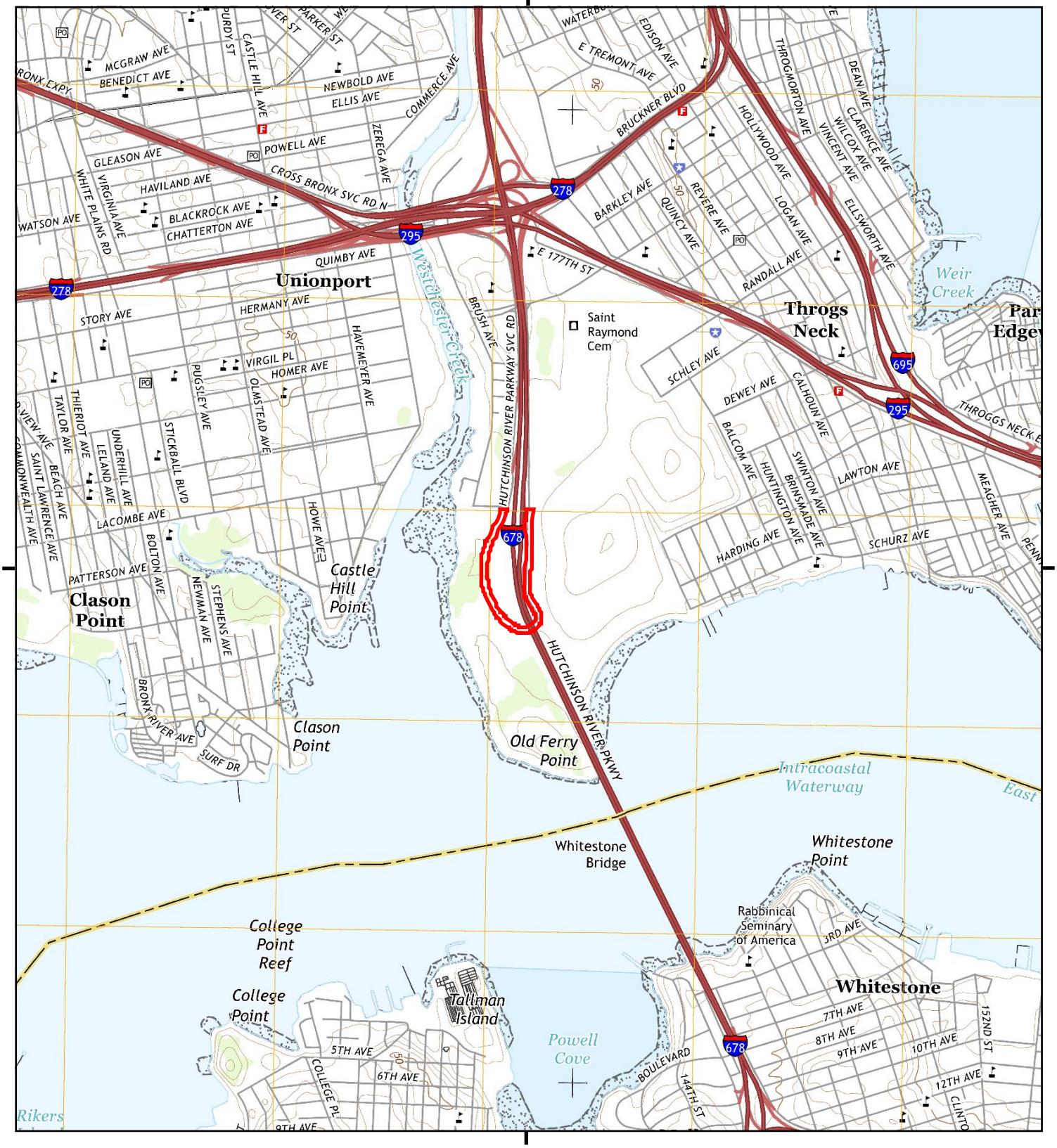

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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 2016, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

2013

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 2013, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1995

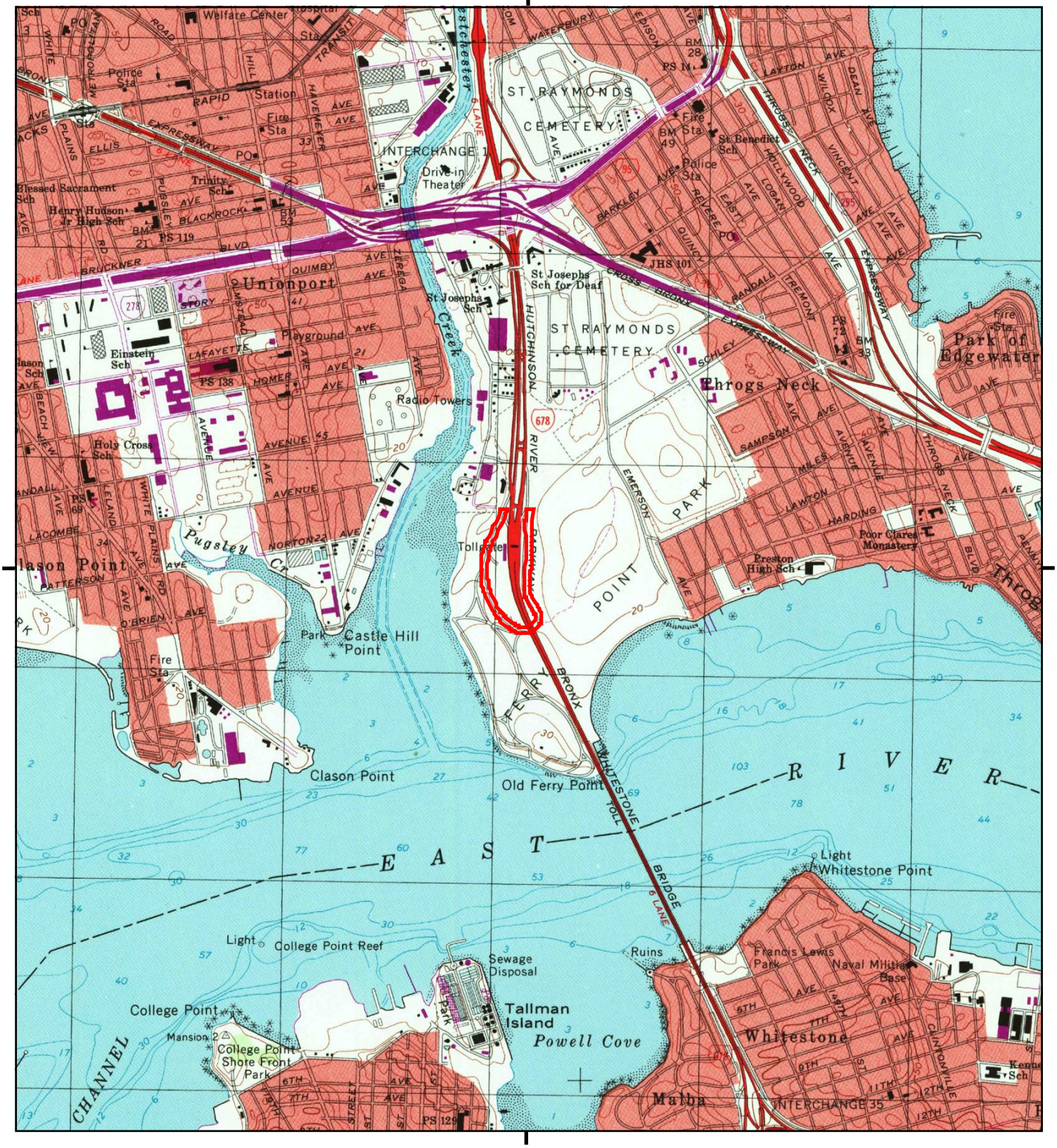

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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 1995, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1979

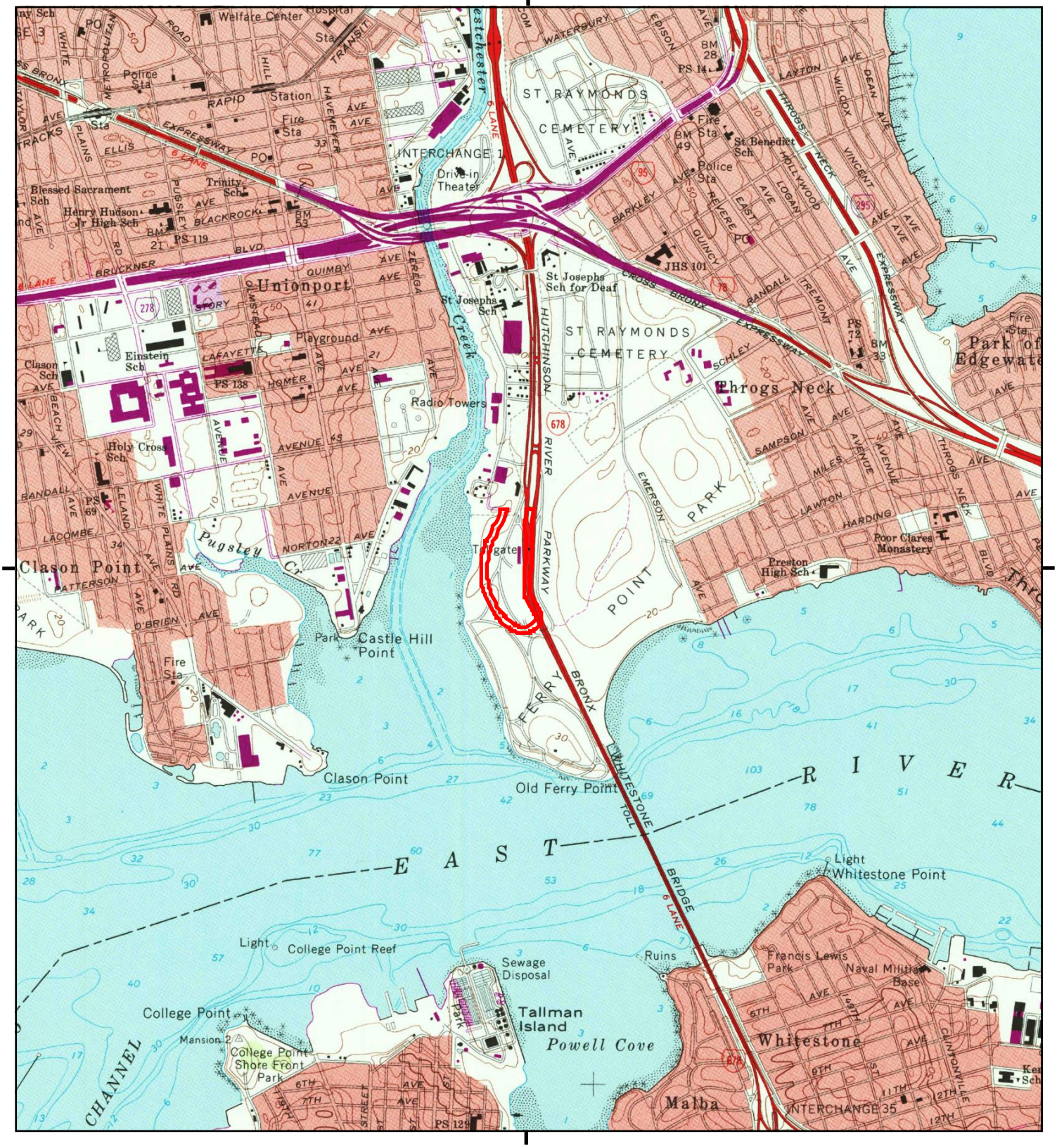

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 1979, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1966

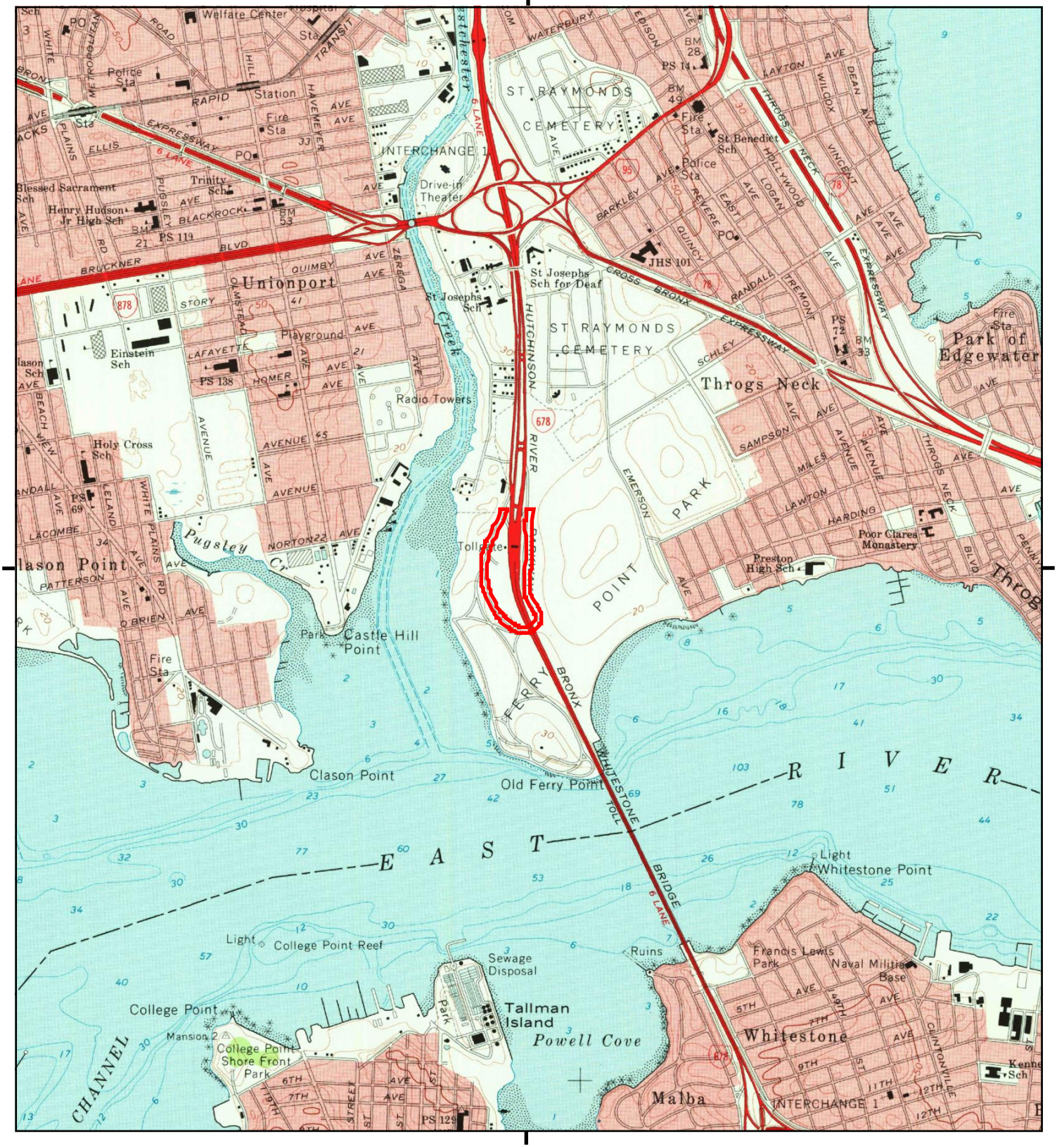

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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 1966, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1955

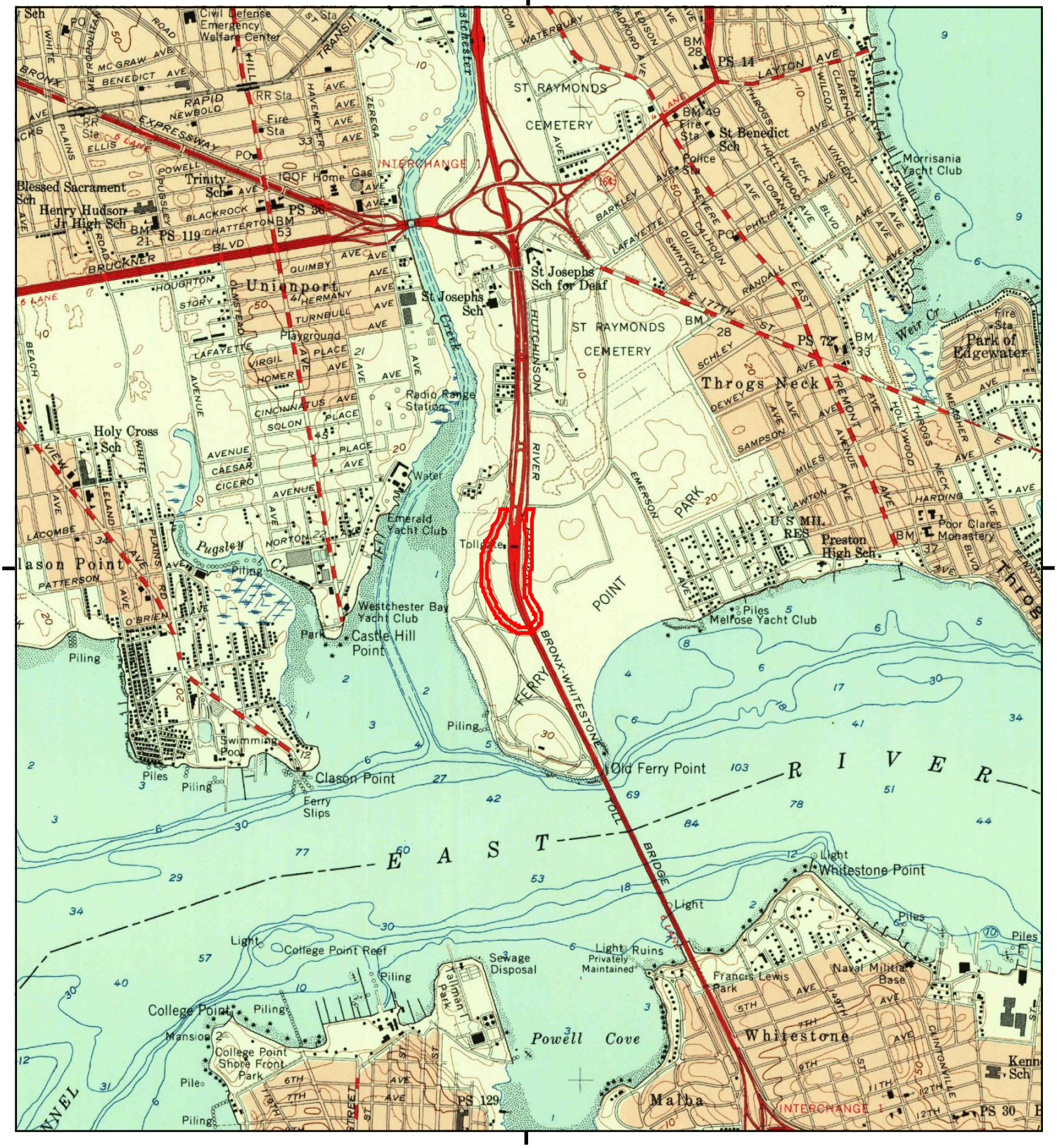

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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 1955, 7.5-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1947

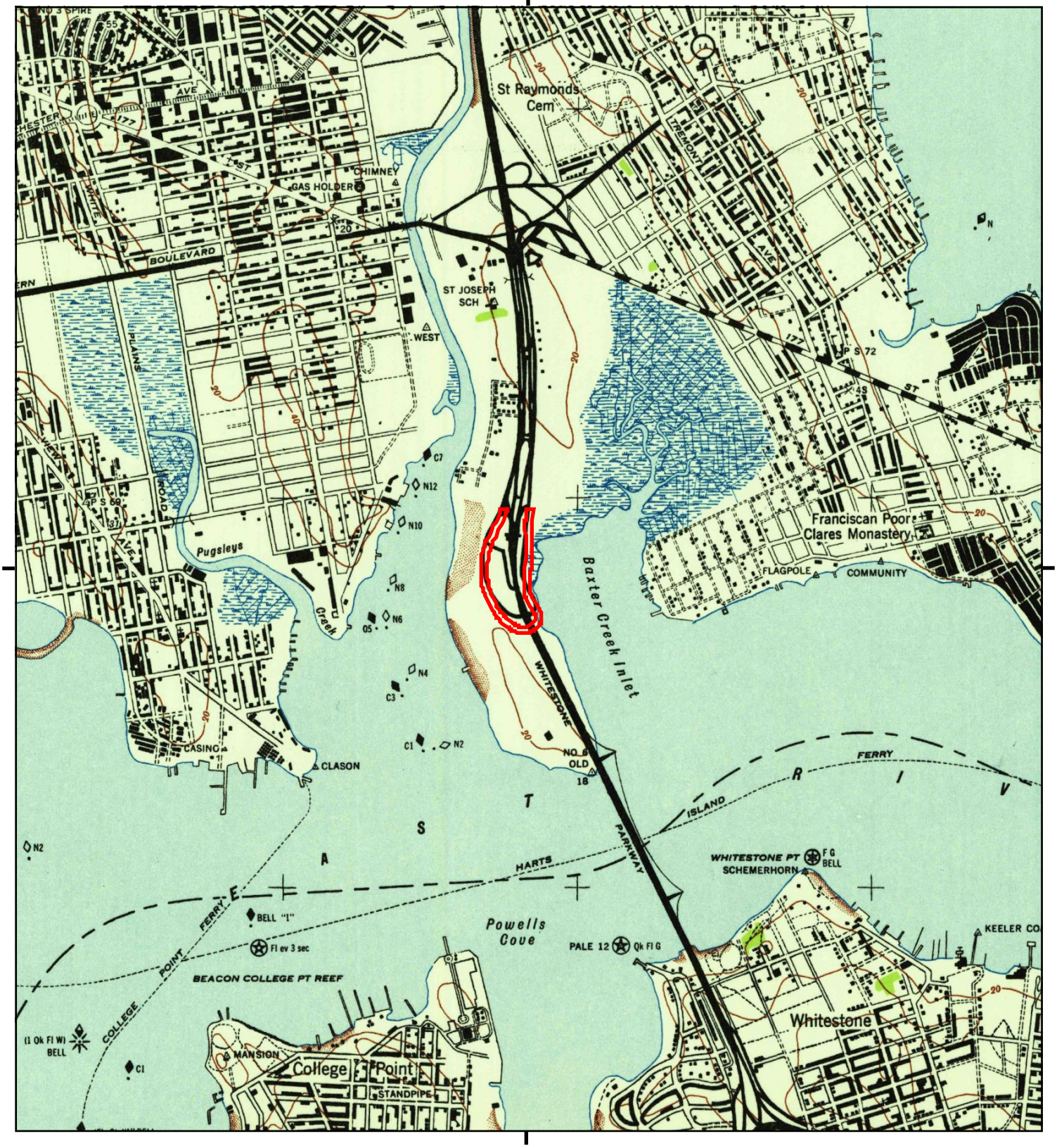

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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Flushing, 1947, 7.5-minute

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ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1900

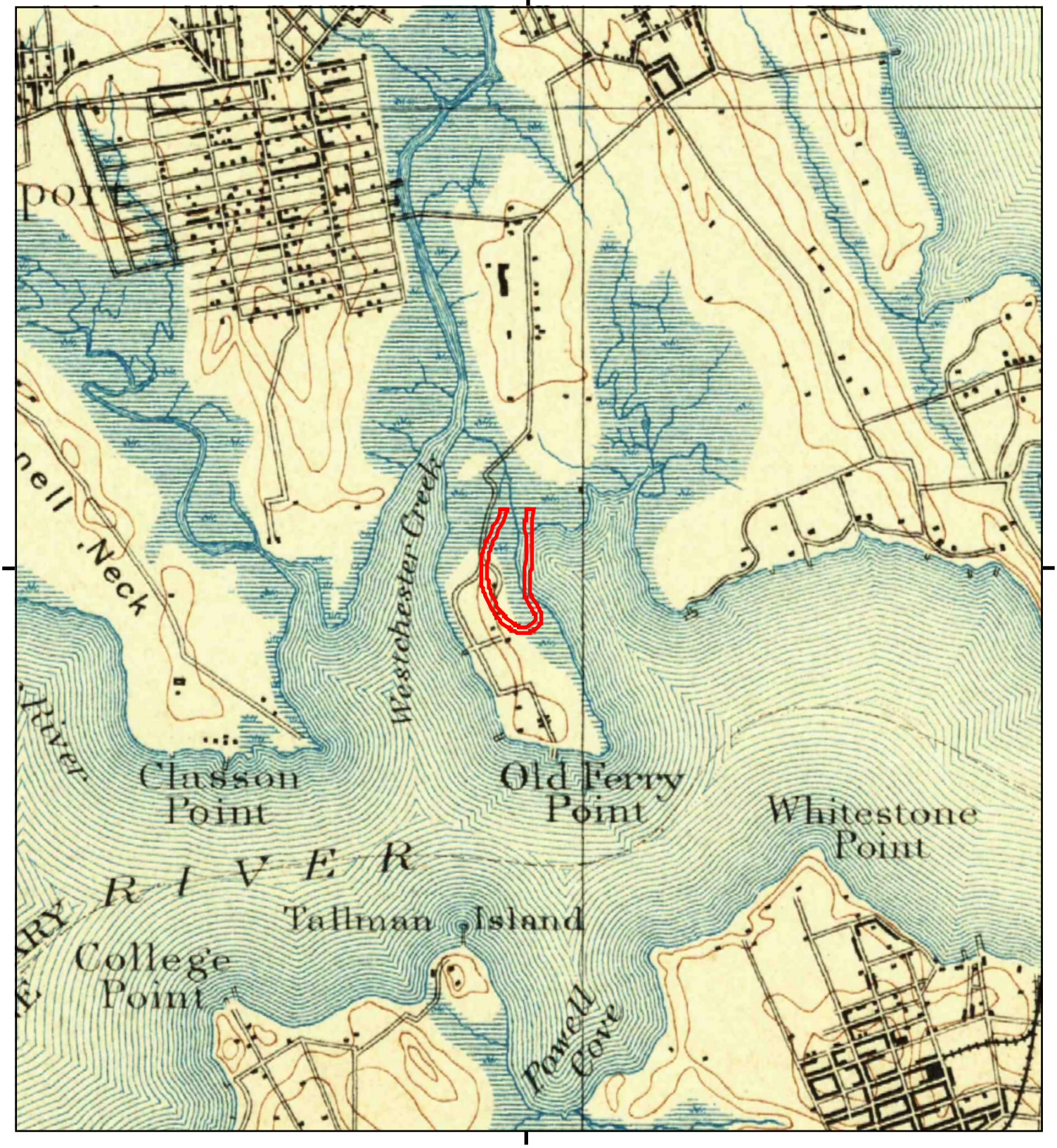

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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Harlem, 1900, 15-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1898

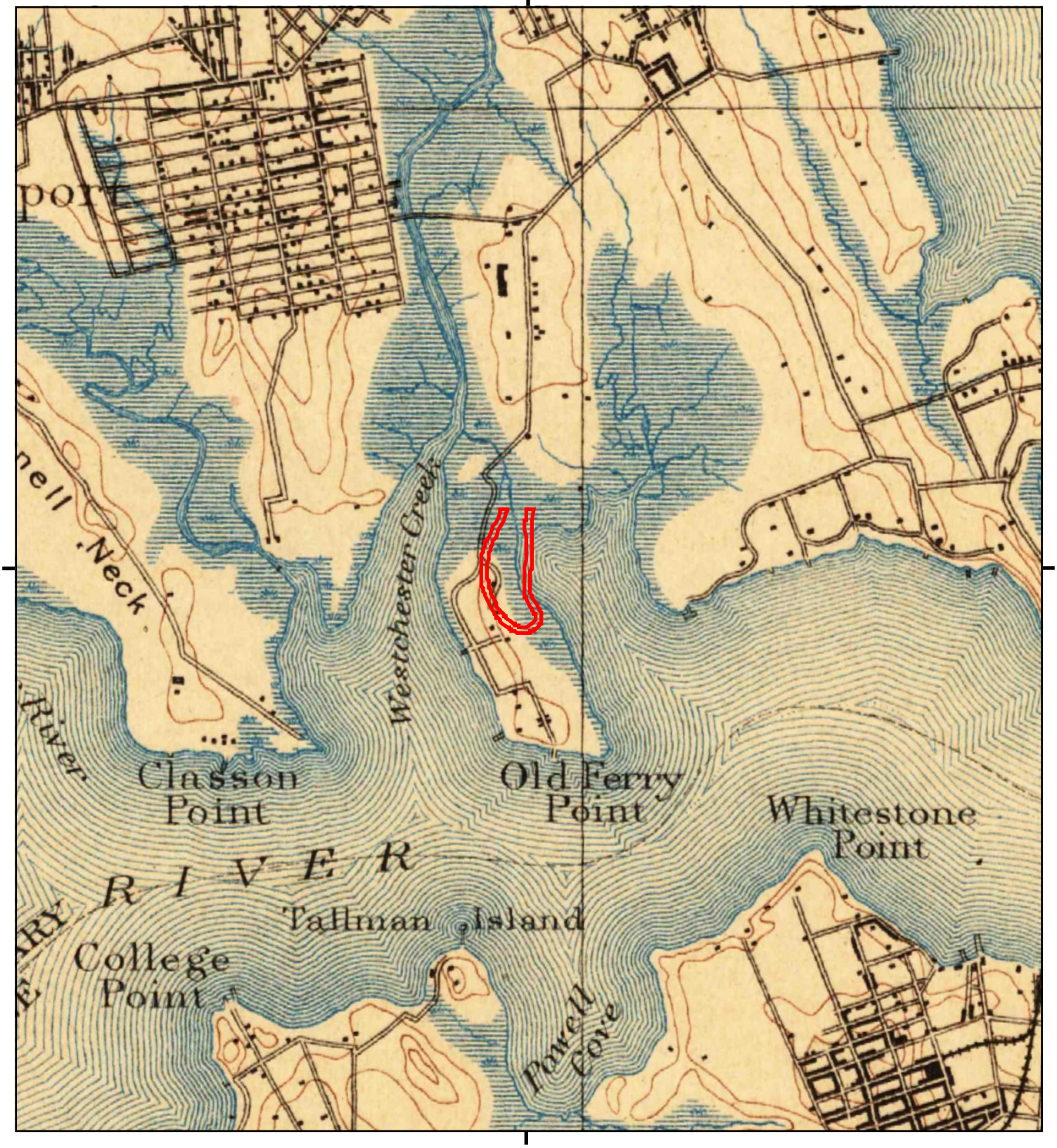

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Harlem, 1898, 15-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Historical Topo Map

1897

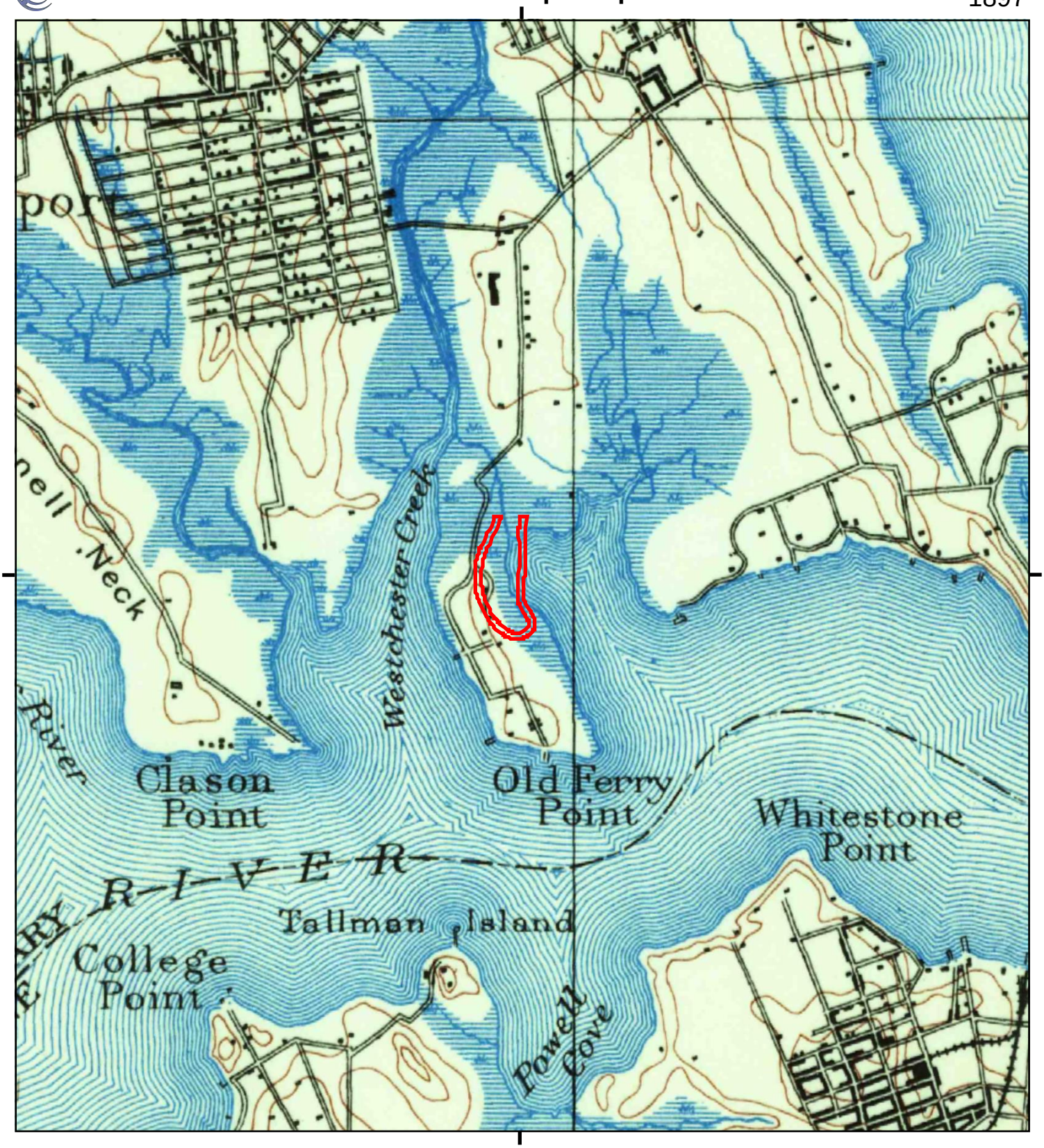

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
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SW S SE

TP, Harlem, 1897, 15-minute

SITE NAME: Proposed Ballys Casino - Ring Road
ADDRESS: 450 Hutchinson River Parkway
Bronx, NY 10465
CLIENT: Langan Engineering, Inc.

N

Proposed Ballys Casino - Ring Road
450 Hutchinson River Parkway
Bronx, NY 10465

Inquiry Number: 7720624.5
July 30, 2024

The EDR-City Directory Abstract

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at approximately five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1927 through current. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 2640 feet of the target property.

Summary information obtained is provided in the text of this report.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2020	EDR Digital Archive	-	X	X	-
2017	Cole Information	-	X	X	-
2014	Cole Information	-	X	X	-
2010	Cole Information	-	X	X	-
2005	Cole Information	-	X	X	-
	Hill-Donnelly Information Services	-	X	X	-
2000	Cole Information	-	X	X	-
	Cole Information Services	-	X	X	-
1995	Cole Information	-	X	X	-
1993	New York Telephone	-	X	X	-
1992	Cole Information	-	X	X	-
1983	New York Telephone	-	X	X	-
1976	New York Telephone Company	-	X	X	-
1971	New York Telephone	-	X	X	-
1965	New York Telephone Company	-	X	X	-
1961	New York Telephone	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1956	New York Telephone	-	X	X	-
1949	New York Telephone	-	X	X	-
1940	New York Telephone	-	X	X	-
1931	Manhattan and Bronx Directory Publishing Company Residential Directory	-	X	X	-
1927	New York Telephone	-	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
500 Hutchinson River Parkway	Client Entered	
492 Hutchinson River Pkwy	Client Entered	
525 Hutchinson River Pkwy	Client Entered	
555 Hutchinson River Pkwy	Client Entered	
545 Brush Ave	Client Entered	
550 Brush Ave	Client Entered	
650 Brush Ave	Client Entered	
699 Brush Ave	Client Entered	
3 Schley Ave	Client Entered	
1 Schley Ave	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

450 Hutchinson River Parkway
Bronx, NY 10465

FINDINGS DETAIL

Target Property research detail.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

BRUSH AVE

500 BRUSH AVE

Year	Uses	Source
1993	ARKAY ASSOCIATES INC	New York Telephone
	BCD MASONRY INC	New York Telephone
	DECON MECHANICAL CONTRACTORS	New York Telephone
	DECON PLUMBING INC	New York Telephone
	JMM MASON INC	New York Telephone

509 BRUSH AVE

Year	Uses	Source
1983	KOFSKY IRA J	New York Telephone
1976	SULLIVAN WM L	New York Telephone Company
1971	SULLIVAN WM L	New York Telephone

510 BRUSH AVE

Year	Uses	Source
1993	FABRICAS PEIXE CORP	New York Telephone
	SALVATI FOODS PRODS INC	New York Telephone

515 BRUSH AVE

Year	Uses	Source
1993	MILLER MARY	New York Telephone
1983	ELSASSEI CHAS J	New York Telephone
1976	ELSASSER CHAS J	New York Telephone Company
1971	ELSASSER CHAS J	New York Telephone
1965	ELSASSER CHAS J	New York Telephone Company

529 BRUSH AVE

Year	Uses	Source
1993	BARKER JOHN	New York Telephone

FINDINGS

Year	Uses	Source
1993	MARTIN J	New York Telephone
1976	DYNAMIC PAINTG & DECRATG CORP	New York Telephone Company
	EAST COAST PAINTING CORP	New York Telephone Company
1965	JENSEN E WM	New York Telephone Company

531 BRUSH AVE

Year	Uses	Source
1976	ASCENZO & SONS INC	New York Telephone Company
1971	ASCENZO & SONS INC	New York Telephone

535 BRUSH AVE

Year	Uses	Source
1965	ASCENZO & SONS INC	New York Telephone Company

536 BRUSH AVE

Year	Uses	Source
1965	WHITESTONE REALTY CORP	New York Telephone Company

550 BRUSH AVE

Year	Uses	Source
1993	SPIELBERG L & SONS INC	New York Telephone
1983	SPIELBERG L & SONS INC	New York Telephone
1976	SPIELBERG L & SONS INC	New York Telephone Company
1971	SISTO & DIMAIO INC	New York Telephone
	SPIELBERG L & SONS INC	New York Telephone

666 BRUSH AVE

Year	Uses	Source
1983	BIG APPLE WRECKING CORP	New York Telephone

680 BRUSH AVE

Year	Uses	Source
1976	CLEARY ANNA MRS	New York Telephone Company
1971	CLEARY ANNA MRS	New York Telephone
1965	CLEARY ANNA MRS	New York Telephone Company

FINDINGS

682 BRUSH AVE

Year	Uses	Source
1983	MURPHY EDWARD V	New York Telephone
1976	MURPHY EDWARD R	New York Telephone Company
	MURPHY MAUREEN	New York Telephone Company
1971	MURPHY EILEEN V	New York Telephone
1965	MAC INTYRE ROBT W	New York Telephone Company

BRUSH AVE

500 BRUSH AVE

Year	Uses	Source
2020	CABLE VISION OF NYC	EDR Digital Archive
2010	MATELL CONTRACTING CO INC	Cole Information
2005	Matell Contracting Co Inc	Hill-Donnelly Information Services
	ANDREW C KATZ & ASSOCIATES	Cole Information
2000	MATELL CONTRNG CO	Cole Information
	LIBERTY MECHANICAL CONTRACTORS	Cole Information
	R & R MECHANICAL INCORPORATED	Cole Information
	MATELL CONTRACTING COMPANY INCORPORATED	Cole Information
1995	DECON PLUMBING INC	Cole Information
	MATELL CONTRACTING CO INC	Cole Information
	DECON MECHANICAL CONTRACTORS	Cole Information
	R & R MECHANICAL INC	Cole Information
1992	DECON PLUMBING INC	Cole Information
	BCD MASONRY INC	Cole Information
	JMM MASON INC	Cole Information
	ARKAY ASSOCIATES INC	Cole Information
	DECON MECHANICAL CONTRACTORS	Cole Information
	MITTLEMAN, PHILIP A, ATTY	Cole Information

501 BRUSH AVE

Year	Uses	Source
2005	JOSE NUNEZ	Cole Information

FINDINGS

504 BRUSH AVE

Year	Uses	Source
2005	h Carey L P A	Hill-Donnelly Information Services
2000	CAREY LP	Cole Information
	CAREY LP	Cole Information
1995	CARE 4	Cole Information

509 BRUSH AVE

Year	Uses	Source
2020	MICHAEL PEREZ	EDR Digital Archive
	ROBERT HERNANDEZ	EDR Digital Archive
2017	ROBERT HERNANDEZ	Cole Information
	DESIRE PEREZ	Cole Information
2014	TUPAC HERNANDEZ	Cole Information
	DESIRE PEREZ	Cole Information
2010	ANN DELGADO	Cole Information
2005	OCCUPANT UNKNOWN	Cole Information
	Mercado Crystal V	Hill-Donnelly Information Services
2000	DAVID MERCADO	Cole Information
	RENE MERCADO	Cole Information
	OCCUPANT UNKNOWN	Cole Information

510 BRUSH AVE

Year	Uses	Source
2005	NCL	Hill-Donnelly Information Services
1995	FABRICAS PEIXE CORP	Cole Information
1992	SALVATI FOODS PRODS INC	Cole Information
	FABRICAS PEIXE CORP	Cole Information

515 BRUSH AVE

Year	Uses	Source
2020	LET ME BUILD LLC	EDR Digital Archive
	JAMES MILLER	EDR Digital Archive
	DREW ROUBLICK	EDR Digital Archive
	JOANNE MILLER	EDR Digital Archive

FINDINGS

Year	Uses	Source
2020	DAISY RODRIGUEZ	EDR Digital Archive
2014	PAUL MILLER	Cole Information
2010	J MILLER	Cole Information
2005	PAUL MILLER	Cole Information
	Miller Paul	Hill-Donnelly Information Services
	Miller Paul	Hill-Donnelly Information Services
	Miller Paul Aa	Hill-Donnelly Information Services
	Rodriguez Daisy A	Hill-Donnelly Information Services
2000	KELLY KERNWI	Cole Information
	J E MILLER	Cole Information
	MARY MILLER	Cole Information
	VINCENT POWERS	Cole Information
	JOANNE MILLER	Cole Information
	KELLY KERWIN	Cole Information
1993	MILLER Mary	New York Telephone
1992	MILLER, MARY	Cole Information
1940	Elsasser G	New York Telephone
1931	Elasser Gustave fireman	Manhattan and Bronx Directory Publishing Company Residential Directory

517 BRUSH AVE

Year	Uses	Source
2005	JOANNE MILLER	Cole Information

528 BRUSH AVE

Year	Uses	Source
1940	Ritch Sidney C	New York Telephone
1927	Ritch Sidney C r	New York Telephone

529 BRUSH AVE

Year	Uses	Source
2020	JOHN WEINHEIMER	EDR Digital Archive
	ANTHONY MEDICI	EDR Digital Archive
	PETER BONIFIGLIO	EDR Digital Archive
2005	Barker J A	Hill-Donnelly Information Services

FINDINGS

Year	Uses	Source
2005	Martin J AA	Hill-Donnelly Information Services
2000	J BARKER	Cole Information
	J MARTIN	Cole Information
1993	BARKER John	New York Telephone
	MARTIN J	New York Telephone
1992	BARKER, JOHN	Cole Information
	MARTIN, J	Cole Information

530 BRUSH AVE

Year	Uses	Source
1940	Miller Chas H	New York Telephone

531 BRUSH AVE

Year	Uses	Source
2000	OCCUPANT UNKNOWN	Cole Information
1927	Van Bakel P r	New York Telephone

545 BRUSH AVE

Year	Uses	Source
2020	UPS CUSTOMER CTR	EDR Digital Archive
2005	UNITED PARCEL SERVICE	Cole Information

550 BRUSH AVE

Year	Uses	Source
2020	D & J INDUSTRIES	EDR Digital Archive
	MCG CONSTRUCTION	EDR Digital Archive
	WHITESTONE ELECTRIC	EDR Digital Archive
	BUTLER FLEET	EDR Digital Archive
	LIBERTY MECHANICAL CONTRACTORS	EDR Digital Archive
2017	BUTLER FLEET	Cole Information
	MANAGEMENT IMPORT EXPORT LLC	Cole Information
	LIBERTY MECHANICAL CONTRACTORS	Cole Information
	D&J INDUSTRIES	Cole Information
2014	MANAGEMENT IMPORT EXPORT LLC	Cole Information
	LIBERTY MECHANICAL CONTRACTORS	Cole Information

FINDINGS

Year	Uses	Source
2014	BUTLER FLEET	Cole Information
	D&J INDUSTRIES	Cole Information
2010	BUTLER FLEET SVC	Cole Information
	LIBERTY MECHANICAL CONTRACTORS	Cole Information
	MICHAEL CONTILLO	Cole Information
2005	Liberty Mechanical Contractors	Hill-Donnelly Information Services
	LIBERTY MECHANICAL CONTRACTORS	Cole Information
	TOWER PROPERTY MANAGEMENT CO	Cole Information
	DECON STORAGE LLC	Cole Information
	OCCUPANT UNKNOWN	Cole Information
2000	LIBERTY MECHI	Cole Information
	R & R MACHI INC	Cole Information
	KEVIN TAYLOR	Cole Information
1995	SPIELBERG L & SONS INC	Cole Information
1992	SPIELBERG L & SONS INC	Cole Information

552 BRUSH AVE

Year	Uses	Source
1931	Hawlett Geo	Manhattan and Bronx Directory Publishing Company Residential Directory

630 BRUSH AVE

Year	Uses	Source
1927	Miller C H r	New York Telephone

650 BRUSH AVE

Year	Uses	Source
2020	WJD BEVERAGE INC	EDR Digital Archive
	BROOK BEVERAGE	EDR Digital Archive
	J WILD BEVERAGE CORP	EDR Digital Archive
	PEPSI BOTTLING GROUP	EDR Digital Archive
2017	BUHRE BEVERAGE DISTRIBUTING	Cole Information
	J WILD BEVERAGE CORP	Cole Information
	PEPSI COLA BOTTLING CO OF NY	Cole Information
	PEPSICO	Cole Information

FINDINGS

Year	Uses	Source
2017	BROOK BEVERAGE	Cole Information
2014	BUHRE BEVERAGE DISTRIBUTING	Cole Information
	J WILD BEVERAGE CORPORATION	Cole Information
	WEST SIDE BEVERAGE INCORPORATED	Cole Information
	PEPSICO	Cole Information
	BROOK BEVERAGE	Cole Information
	WJD BEVERAGE INCORPORATED	Cole Information
2010	PEPSI BOTTLING GROUP	Cole Information
	BUHRE BEVERAGE DISTRIBUTING	Cole Information
	BROOK BEVERAGE	Cole Information
	WJD BEVERAGE INC	Cole Information
	J WILD BEVERAGE CORP	Cole Information
	PEPSICOLA CO	Cole Information

680 BRUSH AVE

Year	Uses	Source
2020	RAFAEL CARABALLO	EDR Digital Archive
	BROOKE CARABALLO	EDR Digital Archive
2017	RAFAEL CARABALLO	Cole Information
2014	ISAAC OCASIO	Cole Information
2010	JOSE OCASIO	Cole Information
2005	H Ocasio Jose AA	Hill-Donnelly Information Services
	JOSE OCASIO	Cole Information
2000	JOSE VELEZ	Cole Information
	JOSE VELEZ	Cole Information
1992	VELEZ, JOSE	Cole Information
1931	Cleary Wm	Manhattan and Bronx Directory Publishing Company Residential Directory

682 BRUSH AVE

Year	Uses	Source
2017	DENIS PINO	Cole Information
2014	DENIS PINO	Cole Information
2010	DENNIS PINO	Cole Information

FINDINGS

Year	Uses	Source
2005	H Carrero S A Aa	Hill-Donnelly Information Services
	SALVADOR CARRERO	Cole Information
1992	RIVERA, JOSE	Cole Information

699 BRUSH AVE

Year	Uses	Source
2005	H 0 Penn Machinery Co	Hill-Donnelly Information Services
2000	CTRPLLR LFT TRCKS	Cole Information Services
	H O PENN MACHY CO	Cole Information Services
	H O PENN MACHY CO	Cole Information Services
	PENCO IND DIV H	Cole Information Services
1993	CATERPILLAR LIFT TRUCKS	New York Telephone
	H O PENN MACHINERY	New York Telephone
	H O PENN MACHINERY CO INC	New York Telephone
	PENCO INDUSTRIAL DIV OF H O PENN MACHINERY CO INC	New York Telephone
1983	HO PENN MACHINERY CO INC	New York Telephone
	PENN H O MACHINERY CO INC	New York Telephone

BRUSH AVE FRNT 1

550 BRUSH AVE FRNT 1

Year	Uses	Source
2020	MICHAEL CONTILLO	EDR Digital Archive
	AMANDA CONTILLO	EDR Digital Archive

BRUSH AVE FRNT 2

550 BRUSH AVE FRNT 2

Year	Uses	Source
2020	JOSEPH DEGLOMINI	EDR Digital Archive

EMERSON AVE

196 EMERSON AVE

Year	Uses	Source
1983	HICKSON GLENN	New York Telephone

FINDINGS

198 EMERSON AVE

Year	Uses	Source
1993	DELVALLE RICHARD	New York Telephone
1983	CALANO WALTER	New York Telephone
1976	CALANO WALTER	New York Telephone Company

200 EMERSON AVE

Year	Uses	Source
1993	GALLO PASQUALE	New York Telephone
1983	GALLO PASQUALE	New York Telephone
	NEFF MARTIN	New York Telephone
1976	ANASTASIO NEIL	New York Telephone Company
	GALLO PASQUALE	New York Telephone Company
1971	ANASTASIO NELI	New York Telephone
	GALLO PASQUALE	New York Telephone

204 EMERSON AVE

Year	Uses	Source
1983	ALOISIO VITO	New York Telephone
	CODISPOTI SUSAN	New York Telephone

232 EMERSON AVE

Year	Uses	Source
1993	PERSAUD STEVE	New York Telephone

236 EMERSON AVE

Year	Uses	Source
1976	CRISCUOLO LORRAINE	New York Telephone Company

238 EMERSON AVE

Year	Uses	Source
1993	CAMPANELLI JOSEPH J	New York Telephone
	LEVANTIS V	New York Telephone
1983	HEFFERAN GERARD V	New York Telephone
1976	HEFFERAN GERARD V	New York Telephone Company
	MOLINARI MARY P	New York Telephone Company

FINDINGS

244 EMERSON AVE

Year	Uses	Source
1993	TAKIS THOS	New York Telephone
	TRACZ JOHN	New York Telephone
1983	FRAHER D A	New York Telephone
	RUIZ FRANK	New York Telephone
	TAKIS THOS	New York Telephone
1976	HORGAN KENNETH F	New York Telephone Company
	TAKIS THOS	New York Telephone Company

250 EMERSON AVE

Year	Uses	Source
1993	GUIDO A	New York Telephone

258 EMERSON AVE

Year	Uses	Source
1993	RASMUSSEN L M	New York Telephone
1983	RASMUSSEN L M	New York Telephone
1976	RASMUSSEN WM A	New York Telephone Company

264 EMERSON AVE

Year	Uses	Source
1993	DEVINE D	New York Telephone
1983	PFUND ERWIN SR	New York Telephone
1976	PFUND ERWIN SR	New York Telephone Company
1971	PFUND ERWIN P JR	New York Telephone

266 EMERSON AVE

Year	Uses	Source
1976	BAPTIST PAT	New York Telephone Company

272 EMERSON AVE

Year	Uses	Source
1993	SAVINO DONALD	New York Telephone
1976	HAYES M	New York Telephone Company
1971	HAYES M	New York Telephone

FINDINGS

274 EMERSON AVE

Year	Uses	Source
1993	FERRARI S	New York Telephone
1983	FERRARI S	New York Telephone
1976	FERRARI S	New York Telephone Company

276 EMERSON AVE

Year	Uses	Source
1993	A-STEVENS SEWER & DRAIN CLNG	New York Telephone

278 EMERSON AVE

Year	Uses	Source
1983	MALTESE JOHN F	New York Telephone
1976	MALTESE JOHN F	New York Telephone Company

EMERSON AVE

196 EMERSON AVE

Year	Uses	Source
2020	ESWILDA HERNANDEZ	EDR Digital Archive
2017	ESWILDA HERNANDEZ	Cole Information
2014	DANIEL PIROZZI	Cole Information
2010	DANIEL PIROZZI	Cole Information
2005	NCL	Hill-Donnelly Information Services
	JOANNE OHARE	Cole Information
2000	J DOHERTY	Cole Information
	J DOHERTY	Cole Information
1993	PIROZZI FRANK	New York Telephone
1992	PIROZZI, FRANK	Cole Information
1983	PIROZZI FRANK	New York Telephone
1976	PIROZZI FRANK	New York Telephone Company
1971	HARTMANN RAYMOND D	New York Telephone
	PIROZZI FRANK	New York Telephone
1965	HARTMANN RAYMOND D	New York Telephone Company
	PIROZZI FRANK	New York Telephone Company
1961	HASTMANN RAYMOND D	New York Telephone

FINDINGS

Year	Uses	Source
1961	PIROZZI FRANK	New York Telephone
1931	Carney Theo	Manhattan and Bronx Directory Publishing Company Residential Directory

198 EMERSON AVE

Year	Uses	Source
2020	MICHAEL DIAZ	EDR Digital Archive
	VALLE DEL VALLE	EDR Digital Archive
	IVIS BONES	EDR Digital Archive
	BERNARDO DEL VALLE	EDR Digital Archive
	YVETTE FOY	EDR Digital Archive
	IVIS DIAZ	EDR Digital Archive
	RUDOLPH GADSON	EDR Digital Archive
2017	DALE WILLIAMS	Cole Information
2014	RUDOLPH GADSON	Cole Information
2010	MELVIN LANGLEY	Cole Information
2005	Langley M	Hill-Donnelly Information Services
	Williams Dale	Hill-Donnelly Information Services
	MELVIN LANGLEY	Cole Information
2000	OCCUPANT UNKNOWN	Cole Information
1993	DELVALLE Richard	New York Telephone
1992	DELVALLE, RICHARD	Cole Information
1971	ATTIS STEPHEN E JR	New York Telephone
	MORRIS TERENCE	New York Telephone
1965	TRUNCALI F J	New York Telephone Company
1961	MARTZ JOS M	New York Telephone
	TRUNCALI F J	New York Telephone
1931	Keller Walter	Manhattan and Bronx Directory Publishing Company Residential Directory
	Schineller Edw	Manhattan and Bronx Directory Publishing Company Residential Directory

200 EMERSON AVE

Year	Uses	Source
2020	LUCECITA GUEVARA	EDR Digital Archive

FINDINGS

Year	Uses	Source
2020	FRANCISCO GUEVARA	EDR Digital Archive
2017	ROSALYNN MEJIA	Cole Information
2010	MARILYN MANSOUR	Cole Information
	FRANCISCO GUEVARA	Cole Information
	MARILYN COSTA	Cole Information
2005	FRANCISCO GUEVARA	Cole Information
	H Gallo S F Aa	Hill-Donnelly Information Services
2000	APARTMENTS	Cole Information
	MARIO CARO	Cole Information
	MAUREEN HUSTON	Cole Information
	PASQUAL GALLO	Cole Information
	ELLEN CHADWICK	Cole Information
1993	GALLO Pasquale	New York Telephone
1992	GALLO, PASQUALE	Cole Information

201 EMERSON AVE

Year	Uses	Source
2000	MARIO CARO	Cole Information
	PASQUALE GALLO	Cole Information

202 EMERSON AVE

Year	Uses	Source
2020	JULIO RODRIGUEZ	EDR Digital Archive
	JENNIE FLORES	EDR Digital Archive
	MICHELLE FLORES	EDR Digital Archive
2017	MICHELLE FLORES	Cole Information
2014	JENNIE FLORES	Cole Information
2010	JULIO RODRIGUEZ	Cole Information
2005	EDUARDO LOPEZ	Cole Information
	H Lopez Eduardo A	Hill-Donnelly Information Services
2000	EDUARDO LOPEZ	Cole Information
	EDUARDO LOPEZ	Cole Information

FINDINGS

204 EMERSON AVE

Year	Uses	Source
2020	ASHEEK ALLI	EDR Digital Archive
	ANTHONY NAPOLEONIS	EDR Digital Archive
	BIBI ALLI	EDR Digital Archive
	SHABANA ALLI-ARJUNE	EDR Digital Archive
	MARIA NAPOLEONIS	EDR Digital Archive
	RAMDEW ARJUNE	EDR Digital Archive
	LUZ NAPOLEONIS	EDR Digital Archive
2017	ASHEEK ALLI	Cole Information
	JAY JUNE	Cole Information
	SHABANA ARJUNE	Cole Information
	MIRIAM RODRIGUEZ	Cole Information
2014	ASHEEK ALLI	Cole Information
	JAY KHAN	Cole Information
	DAMARIS PEREZ	Cole Information
	JAY JUNE	Cole Information
	SHABANA ARJUNE	Cole Information
	MIRIAM RODRIGUEZ	Cole Information
2010	ASHEEK ALLI	Cole Information
	SHABANA ARJUNE	Cole Information
	RAVI RAMPERSAD	Cole Information
2005	VICTOR RODRIGUEZ	Cole Information
	H Rodriguez Victor A	Hill-Donnelly Information Services
2000	VICTOR RODRIGUEZ	Cole Information
	VICTOR RODRIGUEZ	Cole Information
1976	CODISPOTI GUIDO	New York Telephone Company
1971	CODISPOTI GUIDO	New York Telephone

230 EMERSON AVE

Year	Uses	Source
2020	SHAYAN TAMAYO	EDR Digital Archive
	LINDA FRANCESCHINI	EDR Digital Archive
	NIKIELLA ESCAIERA	EDR Digital Archive

FINDINGS

Year	Uses	Source
2020	DAMARIS GARCIA	EDR Digital Archive
2017	SHAYAN TAMAYO	Cole Information
2014	SHAYAN TAMAYO	Cole Information
	DAMARIS GARCIA	Cole Information
2010	DAMARIS GARCIA	Cole Information
2005	M SANCHEZ	Cole Information
	GARCIA DEMARIS	Cole Information
	DAMARIS GARCIA	Cole Information
	232 NCL	Hill-Donnelly Information Services
2000	OCCUPANT UNKNOWN	Cole Information

232 EMERSON AVE

Year	Uses	Source
2020	FREDDY ROSARIO	EDR Digital Archive
	ANDREW DIGIUGNO	EDR Digital Archive
	ANGELICA CASTANOS	EDR Digital Archive
2017	BERNETTA WALKER	Cole Information
	ANDREW DIGIUGNO	Cole Information
	ANGELICA CASTANOS	Cole Information
	JESSICA JOHNSON	Cole Information
	JAMES POLITE	Cole Information
2014	BERNETTA WALKER	Cole Information
	DIGIUGNO ANDREW	Cole Information
	ANDREW DIGIUGNO	Cole Information
	ANGELICA CASTANOS	Cole Information
	JAMES POLITE	Cole Information
	JESSICA JOHNSON	Cole Information
2010	ANDREW DIGIUGNO	Cole Information
	GIEZI DELEON	Cole Information
2005	ANDREW DIGIUGNO	Cole Information
	GIEZI DELEON	Cole Information
	AYANNA TREASURE	Cole Information
2000	OCCUPANT UNKNOWN	Cole Information

FINDINGS

Year	Uses	Source
1993	PERSAUD Steve	New York Telephone
1992	PERSAUD, STEVE	Cole Information

236 EMERSON AVE

Year	Uses	Source
2020	HUMERA ALI	EDR Digital Archive
	BIANCA ELIO	EDR Digital Archive
	TABINDA RIASAT	EDR Digital Archive
	RAJA RIASAT	EDR Digital Archive
2017	HUMERA ALI	Cole Information
	VINCENT ELIO	Cole Information
	RAJA RIASAT	Cole Information
	SOBIA PARVEEN	Cole Information
2014	HUMERA ALI	Cole Information
	VINCENT ELIO	Cole Information
	CHRISTOPHER WHITE	Cole Information
	ANN FISS	Cole Information
2010	ANN FISS	Cole Information
	CHRISTOPHER WHITE	Cole Information
	ANNETTE DELARA	Cole Information
	VINCENT CRISCUOLO	Cole Information
2005	Buxton William R V	Hill-Donnelly Information Services
	Crisuolo L AA	Hill-Donnelly Information Services
2000	L CRISUOLO 98 863-8115	Cole Information
	L CRISUOLO	Cole Information

238 EMERSON AVE

Year	Uses	Source
2020	SABRINA CALDERON	EDR Digital Archive
	DANNY MENDEZ	EDR Digital Archive
	JAY DANNY	EDR Digital Archive
	ELIZABETH GORDILLS	EDR Digital Archive
2017	LOUIS CARDELLO	Cole Information
	SABRINA CALDERON	Cole Information

FINDINGS

Year	Uses	Source
2014	SABRINA CALDERON	Cole Information
	JAY DANNY	Cole Information
2010	DANNY MENDEZ	Cole Information
2005	DANNY MENDEZ	Cole Information
	ELIZABETH GORDILLS	Cole Information
	Gordills E v	Hill-Donnelly Information Services
2000	VICTOR BETANCOURT	Cole Information
	VICTOR BETANCOURT	Cole Information
1993	CAMPANELLI Joseph J	New York Telephone
	LEVANTIS V	New York Telephone
1992	CAMPANELLI, JOSEPH J	Cole Information

239 EMERSON AVE

Year	Uses	Source
2000	OCCUPANT UNKNOWN	Cole Information

244 EMERSON AVE

Year	Uses	Source
2020	SYLVIA TAKIS	EDR Digital Archive
	THOMAS TAKIS	EDR Digital Archive
	THEODORE TAKIS	EDR Digital Archive
2017	THOMAS TAKIS	Cole Information
2014	THOMAS TAKIS	Cole Information
2010	THOMAS TAKIS	Cole Information
2005	ASSET LINK LLC	Cole Information
	THOMAS TAKIS	Cole Information
	H Takides Ted A	Hill-Donnelly Information Services
	Takis Thomas AV	Hill-Donnelly Information Services
2000	TED TAKIDES	Cole Information
	THOMAS TAKIS	Cole Information
	TED TAKIDES	Cole Information
	THOMAS TAKIS	Cole Information
1993	TAKIS Thos	New York Telephone
	TAKO Michael % 364 9564	New York Telephone

FINDINGS

Year	Uses	Source
1993	TRACZ John	New York Telephone
1992	TAKIS, THOS	Cole Information
	TRACZ, JOHN	Cole Information
1971	LAFFERTY RONALD	New York Telephone
1965	LAFFERTY LOUIS J	New York Telephone Company
1961	LAFFERTY LOUIS J	New York Telephone

245 EMERSON AVE

Year	Uses	Source
1931	Farrell Patk	Manhattan and Bronx Directory Publishing Company Residential Directory

250 EMERSON AVE

Year	Uses	Source
2020	JOSEPH RAMOS	EDR Digital Archive
	ANTONIO RAMOS	EDR Digital Archive
2017	ANGEL WILSON	Cole Information
2014	DENISE GOMEZ-RAMOS	Cole Information
	RAMOS ANTONIO	Cole Information
	ANA VAZQUEZ	Cole Information
	ANDRE ROBINSON	Cole Information
	MARCUS ROSARIO	Cole Information
2010	ANTONIO RAMOS	Cole Information
	ANA VAZQUEZ	Cole Information
2005	ANTONIO RAMOS	Cole Information
	H Ramos A G AA	Hill-Donnelly Information Services
2000	W G HONEGGER JR	Cole Information
	W HONEGGER	Cole Information
1993	GUIDO A	New York Telephone
1992	GUIDO, A	Cole Information

252 EMERSON AVE

Year	Uses	Source
2020	ANDREW MORALES	EDR Digital Archive
	GUY MULLER	EDR Digital Archive

FINDINGS

Year	Uses	Source
2020	ANTHONY GENADIO	EDR Digital Archive
	CAROL TRIASSI	EDR Digital Archive
	MINOO TAVAZOI	EDR Digital Archive
2017	VIRGINIA PEARCE	Cole Information
2014	PEARCE VIRGINIA	Cole Information
	VIRGINIA PEARCE	Cole Information
	ANTHONY GENADIO	Cole Information
	DOMENICA GUIDO	Cole Information
2010	DOMEN PEARCE	Cole Information
	ANTHONY GENADIO	Cole Information
	DOMENICA GUIDO	Cole Information
2005	DOMEN PEARCE	Cole Information
	h Pearce V AV	Hill-Donnelly Information Services
2000	CECILIA GONZALEZ	Cole Information
	CECILIA GONZALEZ	Cole Information

258 EMERSON AVE

Year	Uses	Source
2020	MARIEL QUILES	EDR Digital Archive
	QUILES ELADIO	EDR Digital Archive
	BRANDON QUILES	EDR Digital Archive
	CHRISTOPHER QUILES	EDR Digital Archive
2017	ELADIO QUILES	Cole Information
2014	ELADIO QUILES	Cole Information
2010	OCCUPANT UNKNOWN	Cole Information
2005	HIRAM COLON	Cole Information
	H Colon H A	Hill-Donnelly Information Services
2000	HIRAM COLON	Cole Information
1993	RASMUSSEN L M	New York Telephone
1992	RASMUSSEN, L M	Cole Information
1971	PFUND WM	New York Telephone
1965	PFUND WM	New York Telephone Company
1961	PFUND WM	New York Telephone

FINDINGS

264 EMERSON AVE

Year	Uses	Source
2020	LYNN DEVINE	EDR Digital Archive
	DENNIS DEVINE	EDR Digital Archive
2014	DEVINE DENNIS	Cole Information
2010	DENNIS DEVINE	Cole Information
2005	KAREN BASMUSSEN	Cole Information
	DENNIS DEVINE	Cole Information
	KAREN RASMUSSEN	Cole Information
	Devine D A	Hill-Donnelly Information Services
2000	D DEVINE	Cole Information
	DEVINE DENNIS	Cole Information
	DENNIS DEVINE	Cole Information
1993	DEVINE D	New York Telephone
1992	DEVINE, D	Cole Information
1965	PFUND ERWIN	New York Telephone Company
1961	PFUND ERWIN	New York Telephone

266 EMERSON AVE

Year	Uses	Source
2020	JULES HAMILTON	EDR Digital Archive
	LOREEN WALKER	EDR Digital Archive
	MARIE HAMILTON	EDR Digital Archive
	KYLE HAMILTON	EDR Digital Archive
2017	MARIE BROWN-HAMILTON	Cole Information
	LOREEN WALKER	Cole Information
2014	JULES HAMILTON	Cole Information
	ICILDA HISLOP	Cole Information
	LOREEN WALKER	Cole Information
2010	VICTOR GONZALEZ	Cole Information
	JULES HAMILTON	Cole Information
	I HISLOP	Cole Information
	LOREEN WALKER	Cole Information
	MARIE BROWN	Cole Information

FINDINGS

Year	Uses	Source
2005	LOREEN WALKER	Cole Information
	Walker Loreen	Hill-Donnelly Information Services
2000	LAURIE STEWART	Cole Information
	LAURIE STEWART	Cole Information
1971	DUFFY M E	New York Telephone
1965	FALCIANO THOS L	New York Telephone Company
	GAMBOL ROY	New York Telephone Company
1961	FALCIANO VICTORIA MRS	New York Telephone
1931	Camerino Wm	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Camerino E L r	New York Telephone

268 EMERSON AVE

Year	Uses	Source
2020	MARCO LOPEZ	EDR Digital Archive
	JOSEPH HERNANDEZ	EDR Digital Archive
	MARTHA LOPEZ	EDR Digital Archive
	CHRISTOPHER LOPEZ	EDR Digital Archive
	KARLA LAGUNA	EDR Digital Archive
	LIZZETTE RAMOS	EDR Digital Archive
2017	MARCO LOPEZ	Cole Information
2014	MARCO LOPEZ	Cole Information
	VICTOR CRAIG	Cole Information
	KARLA LAGUNA	Cole Information
2010	GABRIEL DELGADO	Cole Information
	MARCO LOPEZ	Cole Information
	KARLA LAGUNA	Cole Information
2005	RAFAEL CASIANO	Cole Information
	MADELINE RIOPEDRE	Cole Information
	NCL	Hill-Donnelly Information Services
2000	H MERCADO JR	Cole Information
	H MERCADO	Cole Information
	L RAMOS	Cole Information

FINDINGS

270 EMERSON AVE

Year	Uses	Source
2020	RAYMOND CLEMENTZ	EDR Digital Archive
	FRANK MATOS	EDR Digital Archive
2017	RAYMOND CLEMENTZ	Cole Information
2014	RAYMOND CLEMENTZ	Cole Information
2010	CARLOS GONZALEZ	Cole Information
	FRANK MATOS	Cole Information
2005	OLGA SHAVEZ	Cole Information
	LAWRENCE MATOS	Cole Information
	h Gonzalez Carlos v	Hill-Donnelly Information Services
2000	OLGA SHAVEZ	Cole Information
	PETER TORRES	Cole Information
	PETER TORRES	Cole Information
	OLGA SHAVEZ	Cole Information

272 EMERSON AVE

Year	Uses	Source
2020	DONALD SAVINO	EDR Digital Archive
	GRETA CARLUCCI	EDR Digital Archive
2017	DONALD SAVINO	Cole Information
2014	DONALD SAVINO	Cole Information
2010	DONALD SAVINO	Cole Information
2005	JOHN FRANZ	Cole Information
	h Savino Donald AO	Hill-Donnelly Information Services
2000	GRETA CARLUCCI	Cole Information
	GRETA CARLUCCI	Cole Information
1993	SAVINO Donald	New York Telephone
1992	SAVINO, DONALD	Cole Information
1965	HAYES JOS M	New York Telephone Company
1961	COMERFORD THOS J JR	New York Telephone

274 EMERSON AVE

Year	Uses	Source
2020	ENILZA BATISTA	EDR Digital Archive

FINDINGS

Year	Uses	Source
2020	RICARDO COLON	EDR Digital Archive
	MARTHA LOPEZ	EDR Digital Archive
	MARCO LOPEZ	EDR Digital Archive
	CHRISTINA LAPIERRE	EDR Digital Archive
2017	RICARDO COLON	Cole Information
2014	MARCO LOPEZ	Cole Information
2010	MARCO LOPEZ	Cole Information
2005	MARCO LOPEZ	Cole Information
	Lopez M L	Hill-Donnelly Information Services
1993	FERRARI S	New York Telephone
1992	FERRARI, S	Cole Information
1971	FERRARI STELLA MRS	New York Telephone
1965	FERRARI STELLA MRS	New York Telephone Company
1961	BRAZAITIS PETER J	New York Telephone
	FERRARI STELLA MRS	New York Telephone

276 EMERSON AVE

Year	Uses	Source
2020	CHRISTINA ANNUNZIATA	EDR Digital Archive
	FRANCINE PESCE	EDR Digital Archive
	DAMARIS RAMIREZ	EDR Digital Archive
	FRANCINE ANNUNZIATA	EDR Digital Archive
	DOMINIC ANNUNZIATA	EDR Digital Archive
2017	DOMINIC ANNUNZIATA	Cole Information
2014	FRAN ANNUNZIATA	Cole Information
2010	FRAN ANNUNZIATA	Cole Information
2005	Annunziata Fran A	Hill-Donnelly Information Services
	Pesce Gerard 3 AA	Hill-Donnelly Information Services
	FRAN ANNUNZIATA	Cole Information
2000	EVELYN PESCE	Cole Information
	FRAN ANNUNZIATA	Cole Information
1995	A-STEVENS SEWER & DRAIN CLNG	Cole Information
1993	PESCE GERARD J	New York Telephone

FINDINGS

Year	Uses	Source
1992	A-STEVENS SEWER & DRAIN CLNG	Cole Information
	PESCE, GERARD J	Cole Information
1983	PESCE GERARD J	New York Telephone
1976	PESCE GERARD J	New York Telephone Company
1971	PESCE GERARD J	New York Telephone
1965	PESCE GERARD J	New York Telephone Company
1961	PESCE GERARD J	New York Telephone

278 EMERSON AVE

Year	Uses	Source
2020	HAWA LAMIN	EDR Digital Archive
	MARIE HILL	EDR Digital Archive
	MARK HILL	EDR Digital Archive
	MAGLENSIE MOTLEY	EDR Digital Archive
	MIYA HILL	EDR Digital Archive
2017	MIYA HILL	Cole Information
2014	MIYA HILL	Cole Information
2010	MARIE SAINTHILL	Cole Information
2005	St Hill Marie AA	Hill-Donnelly Information Services
	1562 WHITE PLAINES RD INC	Cole Information
	JAMES HILL	Cole Information
2000	JAMES HILL	Cole Information
	JAMES HILL	Cole Information
1992	MALTESE, IDA	Cole Information
1965	HICKSON JONN	New York Telephone Company
1961	HICKSON JOHN	New York Telephone

HARDING AVE

2576 HARDING AVE

Year	Uses	Source
2020	MARY SAVAGE	EDR Digital Archive
	DAVID SAVAGE	EDR Digital Archive
	MARGARET DALY	EDR Digital Archive

FINDINGS

Year	Uses	Source
2017	DAVID SAVAGE	Cole Information
2014	DAVID SAVAGE	Cole Information
2010	DAVID SAVAGE	Cole Information
2000	MARCIA MEYER	Cole Information
	DAVID SAVAGE	Cole Information
1992	MEYER, RICHD C	Cole Information
	LEGATO, JOSEPH	Cole Information

2577 HARDING AVE

Year	Uses	Source
2020	BARBARA NOVELLINO	EDR Digital Archive
	PATRICIA JONAP	EDR Digital Archive
2017	BARBARA NOVELLINO	Cole Information
2014	RICHARD ANDERSON	Cole Information
2010	RICHARD ANDERSON	Cole Information
2005	RICHARD ANDERSON	Cole Information
2000	RICHARD ANDERSON	Cole Information
1992	ANDERSON, GUSTAVE M	Cole Information

2578 HARDING AVE

Year	Uses	Source
2020	FEONIA JAMES-JONES	EDR Digital Archive
	JAMES-JONES FEONIA	EDR Digital Archive
2017	MARLON JONES	Cole Information
2014	MARLON JONES	Cole Information
2005	WILLIAM ORTIZ	Cole Information
2000	WILLIAM ORTIZ	Cole Information

2579 HARDING AVE

Year	Uses	Source
2020	ELSA SEGUNDO	EDR Digital Archive
	CARLOS AQUINO	EDR Digital Archive
	CHRISTOPHER BARBOSA	EDR Digital Archive
	ANGELA AQUINO	EDR Digital Archive

FINDINGS

Year	Uses	Source
2017	CHRIS BARBOSA	Cole Information
2014	ELSA SEGUNDO	Cole Information
	EDITH LOPEZ	Cole Information
2010	ELSA SEGUNDO	Cole Information
	EDITH LOPEZ	Cole Information
2005	ANTHONY DELGADO	Cole Information
	ANTHONY DIAZ	Cole Information
2000	MARY LILLIS	Cole Information

2580 HARDING AVE

Year	Uses	Source
2020	VICTORIA ALVARADO	EDR Digital Archive
	LINDA ALVARADO	EDR Digital Archive
	JAMES ALVARADO	EDR Digital Archive
2017	JAMES ALVARADO	Cole Information
2014	JAMES ALVARADO	Cole Information
2010	JAMES ALVARADO	Cole Information
2005	JAMES ALVARADO	Cole Information
2000	CAROL HILL	Cole Information

2581 HARDING AVE

Year	Uses	Source
2020	BRUNILDA FALCON	EDR Digital Archive
2017	BRUNILDA FALCON	Cole Information
2014	ANTHONY MONITTO	Cole Information
2010	ANTHONY MONITTO	Cole Information
2005	ANTHONY MONITTO	Cole Information
2000	MARIA MONITTO	Cole Information

2582 HARDING AVE

Year	Uses	Source
2020	ERIC COLEMAN	EDR Digital Archive
2017	COLEMAN ERIC	Cole Information
2014	OCCUPANT UNKNOWN	Cole Information

FINDINGS

Year	Uses	Source
2010	OCCUPANT UNKNOWN	Cole Information
2005	OCCUPANT UNKNOWN	Cole Information
2000	THOMAS DOERR	Cole Information
1992	DOERR, THOMAS G	Cole Information

2583 HARDING AVE

Year	Uses	Source
2020	EDMUND MCCORMACK	EDR Digital Archive
	FRANCIS DOYLE	EDR Digital Archive
	NATALIE ROMAN	EDR Digital Archive
2017	DOMINGO TORRES	Cole Information
2014	DOYLE FRANCIS	Cole Information
2010	FRANCIS DOYLE	Cole Information
2005	FRANCIS DOYLE	Cole Information
2000	FRANCIS DOYLE	Cole Information
1992	LOMBARDO, PAUL	Cole Information

2584 HARDING AVE

Year	Uses	Source
2020	CRYSTAL LOPEZ	EDR Digital Archive
	CHRISTOPHER GONZALEZ	EDR Digital Archive
	OMAR CRUZ	EDR Digital Archive
2017	MARIVEL SALCEDO	Cole Information
2014	SUZANNE GONZALEZ	Cole Information
2010	SUZANNE GONZALEZ	Cole Information
2005	BELEN GONZALEZ	Cole Information
2000	MARIO COLON	Cole Information

2585 HARDING AVE

Year	Uses	Source
2020	CLARA ROSADO	EDR Digital Archive
	DIANA CLEMENTI	EDR Digital Archive
	FAUSTO HENRIQUEZ	EDR Digital Archive
2014	DIANA CLEMENTI	Cole Information

FINDINGS

Year	Uses	Source
2014	DIANA GRIFFORD	Cole Information
2010	PATRICK BIASE	Cole Information
	DIANA CLEMENTI	Cole Information
	DIANA GRIFFORD	Cole Information
2005	DAVID PETILLO	Cole Information
	DIANA GIFFORD	Cole Information
	DIANA CLEMENTI	Cole Information
	DIANA GRIFFORD	Cole Information
1992	GIFFORD, MICHAEL	Cole Information

2586 HARDING AVE

Year	Uses	Source
2020	STEVEN MUHAMMAD	EDR Digital Archive
	GISELLA QUIJIJE	EDR Digital Archive
	RITA MUHAMMAD	EDR Digital Archive
2017	STEVEN MUHAMMAD	Cole Information
	GISELLA QUIJIJE	Cole Information
	MARIA SERRANO	Cole Information

2587 HARDING AVE

Year	Uses	Source
2020	LUCIANO PEDRO	EDR Digital Archive
	JOSEFINA MOLINA	EDR Digital Archive
	SILVERIO APREA	EDR Digital Archive
2017	AGUSTINO APREA	Cole Information
	JOSEFINA MOLINA	Cole Information
2014	SILVERIO APREA	Cole Information
2010	OCCUPANT UNKNOWN	Cole Information
	SILVERIO APREA	Cole Information
2005	OCCUPANT UNKNOWN	Cole Information
	MICHAEL KOSINENKO	Cole Information
2000	A APREA	Cole Information
1992	KOSINENKO, F	Cole Information
	APREA, AGUSTINO	Cole Information

FINDINGS

Year	Uses	Source
1992	APREA, SILVERIO	Cole Information

2589 HARDING AVE

Year	Uses	Source
2020	RAYMOND MIURA	EDR Digital Archive
	MAUREEN GRECO	EDR Digital Archive
	ANTHONY GRECO	EDR Digital Archive
	WILLIAM GRECO	EDR Digital Archive
2017	RAY MIURA	Cole Information
	WILLIAM GRECO	Cole Information
2014	WILLIAM GRECO	Cole Information
2010	PATRICIA GRECO	Cole Information
	MAUREEN GREGO	Cole Information
	SCOTT BABIAK	Cole Information
2005	PATRICIA GRECO	Cole Information
	RICHARD SCHMIDT	Cole Information
	SCOTT BABIAK	Cole Information

HOSMAR AVE

277 HOSMAR AVE

Year	Uses	Source
1983	DE ROSE JOHN	New York Telephone

HOSMER AVE

237 HOSMER AVE

Year	Uses	Source
1993	PICCININNI MARIE	New York Telephone
1983	PICCININNI MARIE	New York Telephone
1976	FERRARI V	New York Telephone Company
	PICCININNI MARIE	New York Telephone Company
1971	JUSITS JOS	New York Telephone
1965	JUSITS JOS	New York Telephone Company

FINDINGS

245 HOSMER AVE

Year	Uses	Source
1971	GERRETS HENRY C	New York Telephone
1965	GERRETS HENRY C	New York Telephone Company

246 HOSMER AVE

Year	Uses	Source
1993	MEURER MARTIN	New York Telephone
1983	CARRIQUE CONSTANTINO	New York Telephone
	MEURER MARTIN	New York Telephone
1976	MEURER MARTIN	New York Telephone Company
1971	MEURER MARTIN	New York Telephone
1965	MEURER MARTIN	New York Telephone Company
	ROJAS E L	New York Telephone Company

277 HOSMER AVE

Year	Uses	Source
1993	DEROSE JOHN	New York Telephone
1976	BAUER ANITA M	New York Telephone Company
1971	BAUER ANITA M	New York Telephone
1965	BAUER ANITA M	New York Telephone Company

278 HOSMER AVE

Year	Uses	Source
1976	DE ROSE JOHN	New York Telephone Company
1971	GRIFFIN GERALD	New York Telephone
1965	HORAN EUGENE V	New York Telephone Company

HOSMER AVE

237 HOSMER AVE

Year	Uses	Source
2005	h Piccininni Marie AA	Hill-Donnelly Information Services
2000	DOLORES CORRADO	Cole Information
1993	PICCININNI Marie	New York Telephone

FINDINGS

240 HOSMER AVE

Year	Uses	Source
2020	ANTONIO GARCIA	EDR Digital Archive
	MARIA TORRES	EDR Digital Archive
	ERIC GARCIA	EDR Digital Archive
2017	ANTONIO GARCIA	Cole Information
	NELIDA RUIZ	Cole Information
	MARIA TORRES	Cole Information
2014	TORRES MARIA	Cole Information
	EDDIE ARENAS	Cole Information
	MARIA TORRES	Cole Information
	ANGEL CHAVEZ	Cole Information
	MARIE SMITH	Cole Information
2010	ORNAN CORCINO	Cole Information
	MARIA TORRES	Cole Information
2005	Corcino Oman v YO	Hill-Donnelly Information Services

245 HOSMER AVE

Year	Uses	Source
2020	JOACHIM RILEY	EDR Digital Archive
	ELBA RILEY	EDR Digital Archive
2014	JOSEPH RILEY	Cole Information
2010	OCCUPANT UNKNOWN	Cole Information
2005	H Coppinger R J Sr A	Hill-Donnelly Information Services
2000	RAYMOND COPPINGER	Cole Information

246 HOSMER AVE

Year	Uses	Source
2014	LINDA CICALE	Cole Information
2010	LINDA CICALE	Cole Information
2005	NCL	Hill-Donnelly Information Services
2000	LUCIEN CHOUINARD	Cole Information
1993	MEURER Martin	New York Telephone
1992	MEURER, MARTIN	Cole Information
1940	Meurer Martin	New York Telephone

FINDINGS

248 HOSMER AVE

Year	Uses	Source
2020	WEI LIN	EDR Digital Archive
	ASHLEY PAGE	EDR Digital Archive
	SABRINA PADILLA	EDR Digital Archive
2017	CHRISITNE GIFF	Cole Information
	NORBERTO HIERRO	Cole Information
	ZHOU LIN	Cole Information
2014	CHRISITNE GIFF	Cole Information
	JING LIN	Cole Information
2010	CHEN LEI	Cole Information
	ANDREW FELDMAN	Cole Information
	JING LIN	Cole Information
2005	JING LIN	Cole Information

250 HOSMER AVE

Year	Uses	Source
2020	BELKIS PEREZ	EDR Digital Archive
	DALILA PEREZ	EDR Digital Archive
2017	BELKIS PEREZ	Cole Information
2014	BIANCA MALDONADO	Cole Information
	BELKIS PEREZ	Cole Information
2010	BELKIS PEREZ	Cole Information
2005	BELKIS PEREZ	Cole Information

251 HOSMER AVE

Year	Uses	Source
2020	SAJIT TAXI INC	EDR Digital Archive
	SYED SHAMSUZZAMAN	EDR Digital Archive
	FARAH SHAMSUZZAMAN	EDR Digital Archive
	ANGELA SALAZAR	EDR Digital Archive
2017	ANGELA SALAZAR	Cole Information
2014	SYED SHAMSUZZAMAN	Cole Information
	ANGELA SALAZAR	Cole Information
2010	ANGELA DURAN	Cole Information

FINDINGS

Year	Uses	Source
2010	SYED SHAMSUZZAMAN	Cole Information
2005	JASHIM WORLDWIDE	Cole Information
	SYED SHAMSUZZAMAN	Cole Information
	JASHIM AHMED	Cole Information
	Ahmed Jashim v	Hill-Donnelly Information Services
	Jashim Waorldw ide	Hill-Donnelly Information Services
	Shamsuzzaman Syed A	Hill-Donnelly Information Services
2000	SYED SHAMSUZZAMAN	Cole Information

252 HOSMER AVE

Year	Uses	Source
2020	ATOLIA MCFARLANE	EDR Digital Archive
	MIRTHA MALDONADO	EDR Digital Archive
	MEI ZHU	EDR Digital Archive
	FANG MEI	EDR Digital Archive
	LEI CHEN	EDR Digital Archive
2017	CUIFEN DONG	Cole Information
2014	KATHERINE THATCHER	Cole Information
2010	FANG MEI	Cole Information
2005	MEI ZHU	Cole Information
	h Zhu Mel Fang v	Hill-Donnelly Information Services

253 HOSMER AVE

Year	Uses	Source
2020	DEBORAH FELDMAN	EDR Digital Archive
	CHENG CHUEN	EDR Digital Archive
	PARISSA SUAREZ	EDR Digital Archive
	JOHN CHENG	EDR Digital Archive
2017	MELISSA GONZALEZ	Cole Information
	PARISSA SUAREZ	Cole Information
2014	MELISSA GONZALEZ	Cole Information
	LIEN NGUYEN	Cole Information
	CAROLINE BRANCATO	Cole Information
	ALFRED ROMAN	Cole Information

FINDINGS

Year	Uses	Source
2010	CAROLINE BRANCATO	Cole Information
	MICHAEL HADSHIAN	Cole Information
	BRUCE FELDMAN	Cole Information
2005	CAROLINE BRANCATO	Cole Information
	C BRANCTO	Cole Information
	ABE MASSA	Cole Information
	h Massa Barbara A A	Hill-Donnelly Information Services
2000	CHRIS VERINI	Cole Information
	MICHAEL HADSHIAN	Cole Information

254 HOSMER AVE

Year	Uses	Source
2020	VICTOR GARCIA	EDR Digital Archive
	IRENE YUSIM	EDR Digital Archive
	STACY GARCIA	EDR Digital Archive
	KAREN CHEDDESINGH	EDR Digital Archive
	SALVATORE CAPALBO	EDR Digital Archive
	MERCEDEZ WILLIAMS	EDR Digital Archive
	DELANO WILLIAMS	EDR Digital Archive
	FELICIANO RAMIREZ	EDR Digital Archive
2017	LINDA GARCIA	Cole Information
	ROBERT GRIFFIN	Cole Information
2014	ROBERT GRIFFIN	Cole Information
	FELICIANO RAMIREZ	Cole Information
2010	IRENE YUSIM	Cole Information
	ANGEL SOSA	Cole Information
2005	IRENE YUSIM	Cole Information
	SALVATORE CAPALBO	Cole Information
	STEVEN ZABSKI	Cole Information
	NCL	Hill-Donnelly Information Services

255 HOSMER AVE

Year	Uses	Source
2020	HYACINTH SIMPSON	EDR Digital Archive

FINDINGS

Year	Uses	Source
2020	ERROL ANGELL	EDR Digital Archive
	CHRISTINA DECLET	EDR Digital Archive
	RICHARD REID	EDR Digital Archive
2017	HYACINTH SIMPSON	Cole Information
	JOANNE RIVERA	Cole Information
	CHRISTINA DECLET	Cole Information
	DOMINIQUE ANGELL	Cole Information
2014	HYACINTH SIMPSON	Cole Information
	DIEGO DEJESUS	Cole Information
	PEDRO MARTINEZ	Cole Information
	CHRISTINA DECLET	Cole Information
	OCCUPANT UNKNOWN	Cole Information
2010	AHMED MOSTAQUE	Cole Information
	HYACINTH SIMPSON	Cole Information
	DIEGO DEJESUS	Cole Information
	ERNIE OBRIEN	Cole Information
	OCCUPANT UNKNOWN	Cole Information
	SIMPSON HYACINTH	Cole Information
2005	AHMED MOSTAQUE	Cole Information
	ISABEL MENDEZ	Cole Information
	MOHAMMAD AHMED	Cole Information
	MASTAQUE AHRIED	Cole Information
	Rugs D vo	Hill-Donnelly Information Services

256 HOSMER AVE

Year	Uses	Source
2020	ASANTE BRIGHT	EDR Digital Archive
	MICHAEL BRIGHT-ASANT	EDR Digital Archive
	MARQUISHA MCBEAN	EDR Digital Archive
	PATRICK HILL	EDR Digital Archive
2017	MICHAEL ASANTE	Cole Information
	PATRICK HILL	Cole Information
2014	MICHAEL ASANTE	Cole Information

FINDINGS

Year	Uses	Source
2014	ANGELA JARVIS	Cole Information
2010	SHAWN JARVIS	Cole Information
2005	WHEELS PLUS INC	Cole Information
	RICKA BLAKE	Cole Information
	SHAWN JARVIS	Cole Information
	ANGELA SORIANO	Cole Information
	Wheels Plus Inc 1 R	Hill-Donnelly Information Services

257 HOSMER AVE

Year	Uses	Source
2020	ECO HOME IMPROVEMENT LLC	EDR Digital Archive
	JASMIN CLARKE	EDR Digital Archive
	DAVID CLARKE	EDR Digital Archive
2017	BRIAN GRANADOS	Cole Information
	CLARKE JASMIN	Cole Information
	ANTHONY COLASANTI	Cole Information
	RODNEY ROJAS	Cole Information
	DAVID HOWARD	Cole Information
2014	JASMINE GRANADOS	Cole Information
	CLARKE JASMIN	Cole Information
2010	JASMINE GRANADOS	Cole Information
	DAVID HOWARD	Cole Information
2005	JASMIN HOWARD	Cole Information
	MICHELLE GOODE	Cole Information
	JASMIN CLARKE	Cole Information
	NADINE DECOSTA	Cole Information
	H Clarke Jasmin v&	Hill-Donnelly Information Services
2000	DAVID CLARKE	Cole Information

258 HOSMER AVE

Year	Uses	Source
2020	GARCIA ZAIDA	EDR Digital Archive
	WILLIAM ROMAN	EDR Digital Archive
	LUIS SANTIAGO	EDR Digital Archive

FINDINGS

Year	Uses	Source
2017	LUIS SANTIAGO	Cole Information
2014	GARCIA ZAIDA	Cole Information
	JASMIN GALLOWAY	Cole Information
	ZAIDA GARCIA	Cole Information
	LUIS SANTIAGO	Cole Information
2010	GARCIA ZAIDA	Cole Information
	ZAIDA GARCIA	Cole Information
	LUIS SANTIAGO	Cole Information
	OCCUPANT UNKNOWN	Cole Information
2005	GARCIA ZAIDA	Cole Information
	JASMIN GALLOWAY	Cole Information
	ZAIDA GARCIA	Cole Information
	LUIS SANTIAGO	Cole Information
	SOULEYMANE TRAORE	Cole Information
	OCCUPANT UNKNOWN	Cole Information
	H Garcia ZY A	Hill-Donnelly Information Services

259 HOSMER AVE

Year	Uses	Source
2020	MILADY LOPEZ	EDR Digital Archive
	RUBEN RAHMAN	EDR Digital Archive
	FERDOUSI RAHMAN	EDR Digital Archive
	IVAN RAHMAN	EDR Digital Archive
	ANWARUL AZIM	EDR Digital Archive
	MATIUR RAHMAN	EDR Digital Archive
2017	VICTOR DICKSON	Cole Information
	MILADY LOPEZ	Cole Information
	TAMARA VASQUEZ	Cole Information
2014	VICTOR DICKSON	Cole Information
	MILADY LOPEZ	Cole Information
	QAZI AHMED	Cole Information
2010	MILADY LOPEZ	Cole Information
	ANWARA BEGUM	Cole Information

FINDINGS

Year	Uses	Source
2010	SAMIRA AHMED	Cole Information
2005	MILADY LOPEZ	Cole Information
	ANWARA BEGUM	Cole Information
	ANWARUL AZIM	Cole Information
	RAHMAN MATIUR	Cole Information
	Azim Anw arul v	Hill-Donnelly Information Services
	Begum Anw ara v	Hill-Donnelly Information Services
	Lopez Milady v	Hill-Donnelly Information Services

260 HOSMER AVE

Year	Uses	Source
2020	RONALD MANNIELLO	EDR Digital Archive
	LISA CORREALE	EDR Digital Archive
	ANTHONY CORREALE	EDR Digital Archive
	CAROLINA MOREIRA	EDR Digital Archive
	TONI RAGUSA	EDR Digital Archive
2017	RONALD MANNIELLO	Cole Information
	JOSEPH RAGUSA	Cole Information
	ANTHONY CORREALE	Cole Information
	CAROLINA MOREIRA	Cole Information
2014	RAGUSA JOSEPH	Cole Information
	JOSEPH RAGUSA	Cole Information
	ANTHONY CORREALE	Cole Information
	CAROLINA MOREIRA	Cole Information
2010	JOSEPH RAGUSA	Cole Information
2005	JOSEPH RAGUSA	Cole Information
	Ragusa Joseph	Hill-Donnelly Information Services
	H Ragusa Joseph A	Hill-Donnelly Information Services

261 HOSMER AVE

Year	Uses	Source
2017	LOURDES DIAZ	Cole Information
2014	CARLOS VELEZ	Cole Information
	F MODESTO	Cole Information

FINDINGS

Year	Uses	Source
2014	MODESTO MERCADO	Cole Information
2010	CARLOS VELEZ	Cole Information
	MODESTO MERCADO	Cole Information
2005	MODESTO MERCADO	Cole Information
2000	GILBERT FLORES	Cole Information

262 HOSMER AVE

Year	Uses	Source
2020	JESSICA MALDONADO	EDR Digital Archive
	DARLENE HUERTAS	EDR Digital Archive
	DAYMOND NOBLE	EDR Digital Archive
	RAMON MALDONADO	EDR Digital Archive
	CARMEN HUERTAS	EDR Digital Archive
	JUAN DEJESUS	EDR Digital Archive
2017	DARLENE HUERTAS	Cole Information
	DAYMOND NOBLE	Cole Information
	RAYMON MALDONADO	Cole Information
	JUAN DEJESUS	Cole Information
2014	DARLENE HUERTAS	Cole Information
	DAYMOND NOBLE	Cole Information
	RAYMON MALDONADO	Cole Information
2010	ERIC COLEMAN	Cole Information
2005	DARLENE HUERTAS	Cole Information
	h Ma Tdonado Raymon v	Hill-Donnelly Information Services

263 HOSMER AVE

Year	Uses	Source
2020	YOLANDA MENDEZ	EDR Digital Archive
	MELISSA MENDEZ	EDR Digital Archive
2014	MARIANO GONZALEZ	Cole Information
2005	MARGOT GONZALEZ	Cole Information
	MYRNA MENDEZ	Cole Information
2000	MELISSA MENDEZ	Cole Information

FINDINGS

264 HOSMER AVE

Year	Uses	Source
2020	EDWIN HERNANDEZ	EDR Digital Archive
2017	BASSEY ASANG	Cole Information
	JONAH UBONG	Cole Information
	UBONG JONAH	Cole Information
	LETICIA SANCHEZ	Cole Information
2014	IVETTE SANTIAGO	Cole Information
	MARCOS SANCHEZ	Cole Information
	ROBERT SERRONO	Cole Information
	GEORGE SINGELAKIS	Cole Information
2010	MARROS SANCHEZ	Cole Information
2005	MARROS SANCHEZ	Cole Information
	H Sanchez Leticia A	Hill-Donnelly Information Services

265 HOSMER AVE

Year	Uses	Source
2020	DESIREE CHAVIER	EDR Digital Archive
	DENISE CHAVIER	EDR Digital Archive
	CONSTANCE HILL	EDR Digital Archive
	MARIA CHAVIER	EDR Digital Archive
2017	DENISE CHAVIER	Cole Information
2014	DENISE CHAVIER	Cole Information
2010	MARIA CHAVIER	Cole Information
2005	MARIA CHAVIER	Cole Information
	Chavier D A	Hill-Donnelly Information Services

266 HOSMER AVE

Year	Uses	Source
2020	ALBERTO MALDONADO	EDR Digital Archive
	CHAVEZ GILBERT	EDR Digital Archive
	ROSE CHAVEZ	EDR Digital Archive
	JADELING CHAVEZ	EDR Digital Archive
	CESAR TELLO	EDR Digital Archive
	MARLINE CHAVEZ	EDR Digital Archive

Year	Uses	Source
2017	CHRISTIAN VALERO	Cole Information
	GILBERT CHAVEZ	Cole Information
	FATEMA ZOHORA	Cole Information
2014	ELBA GARNIER	Cole Information
	ELBA MARRERO	Cole Information
	GILBERT CHAVEZ	Cole Information
	CHAVEZ GILBERT	Cole Information
	GILBERTO CHAVEZ	Cole Information
	JACQUELINE DUGGINS	Cole Information
	YESENIA RIVERA	Cole Information
	FATEMA ZOHORA	Cole Information
2010	GILBERT CHAVEZ	Cole Information
	CHAVEZ GILBERT	Cole Information
	JACQUELINE DUGGINS	Cole Information
	FATEMA ZOHORA	Cole Information
	YESENIA RIVERA	Cole Information
2005	GILBERT CHAVEZ	Cole Information
	CHAVEZ GILBERT	Cole Information
	YESENIA RIVERA	Cole Information
	Rivera Yesenia YO	Hill-Donnelly Information Services

267 HOSMER AVE

Year	Uses	Source
2020	PALOMA FIGUEROA	EDR Digital Archive
	BIANCA FIGUEROA	EDR Digital Archive
	REYNALDO CHEVER	EDR Digital Archive
	REY CHEVERE	EDR Digital Archive
	CARLOTA CHEVERE	EDR Digital Archive
2017	JAIDEN MOORE	Cole Information
2014	CHEVERE REYNALDO	Cole Information
	REYNALDO CHEVERE	Cole Information
2010	BIANCA FIGUEROA	Cole Information
	REYNALDO CHEVERE	Cole Information

FINDINGS

Year	Uses	Source
2005	ROBERT SAVAGE	Cole Information
	LEANDRO VELEZ	Cole Information
	DIANA DIAZ	Cole Information
	REYNALDO CHEVERE	Cole Information
	NCL	Hill-Donnelly Information Services
2000	NELLIE MOLINARES	Cole Information

268 HOSMER AVE

Year	Uses	Source
2020	KHAN WILLIAMS	EDR Digital Archive
	DAVID AFRAM	EDR Digital Archive
	DOROTHY ABBAN	EDR Digital Archive
	GODFRED AFRAM	EDR Digital Archive
	ALTHEA YOUNG	EDR Digital Archive
	JOSE JARAMILLO	EDR Digital Archive
2017	PHILLIE DIAZ	Cole Information
	LINDA MOLINA	Cole Information
	ALTHEA YOUNG	Cole Information
	CHEYENNE AFRAM	Cole Information
2014	ANGELES RODRIGUEZ	Cole Information
	DANNY MALDONATO	Cole Information
	PHILLIE DIAZ	Cole Information
	LINDA MOLINA	Cole Information
	DOROTHY ABBAN	Cole Information
	ALTHEA YOUNG	Cole Information
	C BENNETT	Cole Information
	FERNANDO ROMERO	Cole Information
2010	DANNY MALDONATO	Cole Information
	LINDA MOLINA	Cole Information
	JUAN LI	Cole Information
	GODFRED AFRAM	Cole Information
	INDIRA RODRIGUEZ	Cole Information
	FERNANDO ROMERO	Cole Information

FINDINGS

269 HOSMER AVE

Year	Uses	Source
2020	CARMEN TORRES	EDR Digital Archive
	DANIEL NIEVES	EDR Digital Archive
	JONATHAN NIEVES	EDR Digital Archive
2017	CARMEN TORRES	Cole Information
	NIEVES EUFEMIO	Cole Information
	JORGE FLORES	Cole Information
	JULIA SERRANO	Cole Information
2014	ROSA FLORES	Cole Information
	JUAN NUNEZ	Cole Information
	CARMEN TORRES	Cole Information
	JULIA SERRANO	Cole Information
2010	EUFEMIO NIEVES	Cole Information
	MELISSA BONTZOLAKES	Cole Information
	LIONEL HAMILTON	Cole Information
	ROBERT DELGADO	Cole Information
2005	YOLANDA MENDEZ	Cole Information
	EUFEMIO NIEVES	Cole Information
	MELISSA BONTZOLAKES	Cole Information
	ANTONIO ARROYO	Cole Information
	Bontzolakes Melissa v	Hill-Donnelly Information Services
	Nieves Eufemio Av	Hill-Donnelly Information Services
2000	EUFEMIO NIEVES	Cole Information
	JUAN CELAYA	Cole Information
	BEATRIZ CHAVEZ	Cole Information

270 HOSMER AVE

Year	Uses	Source
2020	IVELISSE ROMERO	EDR Digital Archive
	ILEINI ROMERO	EDR Digital Archive
	FERNANDO ROMERO	EDR Digital Archive
2017	FERNANDO ROMERO	Cole Information
	LUCAS HERNANDEZ	Cole Information

Year	Uses	Source
2014	MARIA COLON	Cole Information
	FERNANDO ROMERO	Cole Information
2010	CESAR NATANIEL	Cole Information
	FERNANDO ROMERO	Cole Information
2005	FERNANDO ROMERO	Cole Information

271 HOSMER AVE

Year	Uses	Source
2020	LOUISE PILLA	EDR Digital Archive
	JOHN PILLA	EDR Digital Archive
	GABRIELLE PILLA	EDR Digital Archive
2017	JOHN PILLA	Cole Information
2014	MICHAEL PILLA	Cole Information
2010	MICHAEL PILLA	Cole Information
2005	OCCUPANT UNKNOWN	Cole Information
	H Pilla Michael	Hill-Donnelly Information Services
2000	MICHAEL PILLA	Cole Information

277 HOSMER AVE

Year	Uses	Source
2020	THOMASINA DEROSE	EDR Digital Archive
	JOHN DEROSE	EDR Digital Archive
	DE JOHN	EDR Digital Archive
2017	RICHARD WOLNER	Cole Information
2014	JOHN DEROSE	Cole Information
2010	JOHN DEROSE	Cole Information
2005	JOHN DEROSE	Cole Information
	H Derose J PA as	Hill-Donnelly Information Services
1993	DEROSE John	New York Telephone
1992	DEROSE, JOHN	Cole Information

278 HOSMER AVE

Year	Uses	Source
2020	ADELSO RAMIREZ	EDR Digital Archive

Year	Uses	Source
2020	GLORIA QUINONES	EDR Digital Archive
	GLORIA ASENJO	EDR Digital Archive
2017	LIDIA FERRANDO	Cole Information
	GLORIA QUINONES	Cole Information
2014	LIDIA FERRANDO	Cole Information
2010	LIDIA FERRANDO	Cole Information
2005	FRANK COCCA	Cole Information
	H Cocca F G A	Hill-Donnelly Information Services

295 HOSMER AVE

Year	Uses	Source
2014	ANDRIETTE HOLMES	Cole Information
2010	ANDRIETTE HOLMES	Cole Information

HOSMER AVE # 2

248 HOSMER AVE # 2

Year	Uses	Source
2020	JING LIN	EDR Digital Archive
	ZHOU LIN	EDR Digital Archive

HOSMER AVE # A

256 HOSMER AVE # A

Year	Uses	Source
2020	GINA ASIEDU	EDR Digital Archive

257 HOSMER AVE # A

Year	Uses	Source
2020	SHARON ROHAN	EDR Digital Archive

258 HOSMER AVE # A

Year	Uses	Source
2020	JEANETTE SANTIAGO	EDR Digital Archive

259 HOSMER AVE # A

Year	Uses	Source
2020	ANWARA BEGUM	EDR Digital Archive
	ALEXANDER AGYARE	EDR Digital Archive
	TAMARA VASQUEZ	EDR Digital Archive

269 HOSMER AVE # A

Year	Uses	Source
2020	EUFEMIO NIEVES	EDR Digital Archive

HOSMER AVE # B

259 HOSMER AVE # B

Year	Uses	Source
2020	IVORY COLES	EDR Digital Archive
	MILADY DICKSON	EDR Digital Archive
	VICTOR DICKSON	EDR Digital Archive

261 HOSMER AVE # B

Year	Uses	Source
2020	JOHANNIE MERCADO	EDR Digital Archive
	EDDY MARCANO	EDR Digital Archive
	CATHERINE MERCADO	EDR Digital Archive
	MODESTO MERCADO	EDR Digital Archive
	ANNETTE MERCADO	EDR Digital Archive

HUTCHINSON RIVER PKWY

400 HUTCHINSON RIVER PKWY

Year	Uses	Source
2000	JOYLENE ROWE	Cole Information

420 HUTCHINSON RIVER PKWY

Year	Uses	Source
2014	GARY SCHOFFNER	Cole Information
	KOLU WILLETTE	Cole Information
2010	KOLU WILLETTE	Cole Information

FINDINGS

460 HUTCHINSON RIVER PKWY

Year	Uses	Source
2000	PAUL SCHATZ	Cole Information

500 HUTCHINSON RIVER PKWY

Year	Uses	Source
2014	LAWS CONSTRUCTION CORPORATION	Cole Information
2005	LAWS CONSTRUCTION CORP	Cole Information

553 HUTCHINSON RIVER PKWY

Year	Uses	Source
2017	AHERN PAINTING	Cole Information
2014	APPLIED PROJECTS COMPANY INCORPORATE	Cole Information

555 HUTCHINSON RIVER PKWY

Year	Uses	Source
2020	SHANIA NURSE	EDR Digital Archive
	KOVANE BOGAN	EDR Digital Archive
	ALEXIA MITCHELL	EDR Digital Archive
	JULIO RIVERA	EDR Digital Archive
	MARIA ZAPATA	EDR Digital Archive
	ANGELINA PARRA	EDR Digital Archive
	MONNETTE FRANKLIN	EDR Digital Archive
	KARINA AVILA	EDR Digital Archive
	MARQUIS MOSS	EDR Digital Archive
	RONALD FERNANDEZ	EDR Digital Archive
	KEYASHA SHABAZZ	EDR Digital Archive
	HEMRAJIE RAMHARRACK	EDR Digital Archive
	MONA RICHARDS	EDR Digital Archive
2017	BASIC HOUSING INC	Cole Information
	UNICAR UNICAR	Cole Information
	CAPRI WHITESTONE MOTEL	Cole Information
2014	CAPRI WHITESTONE HOTEL	Cole Information
	WHITESTONE BRONX MOTEL	Cole Information
2010	SAMMYS GOURMET	Cole Information

Year	Uses	Source
2010	CAPRI WHITESTONE MOTEL	Cole Information
2000	CAPRI WHITESTONE MOTEL	Cole Information
	B & S LUNCHEONETTE CORPORATION	Cole Information
	BRONX WHITESTONE MOTEL	Cole Information
	CAPRI WHITESTONE MOTEL	Cole Information

700 HUTCHINSON RIVER PKWY

Year	Uses	Source
2017	TRUMP FERRY POINT LLC	Cole Information
	TRUMP NATIONAL GOLF CLUB	Cole Information
2014	TRUMP FERRY POINT LLC	Cole Information

HUTCHINSON RIVER PKY

500 HUTCHINSON RIVER PKY

Year	Uses	Source
2020	TRUMP GOLF LINKS FERRY POINT	EDR Digital Archive
2005	Gannett Fleming Inc 1 P	Hill-Donnelly Information Services
	Law s Construction Corp	Hill-Donnelly Information Services

553 HUTCHINSON RIVER PKY

Year	Uses	Source
2020	AHERN PAINTING	EDR Digital Archive

555 HUTCHINSON RIVER PKY

Year	Uses	Source
2020	BASIC HOUSING INC	EDR Digital Archive
	ATM	EDR Digital Archive
2005	B & S Luncheonette Corp	Hill-Donnelly Information Services
	Greenman Pederson	Hill-Donnelly Information Services
	Greenman Pederson	Hill-Donnelly Information Services
2000	B & S LNCHNTT CORP	Cole Information
	CAPRI WHTSTN MTL	Cole Information
	KISKA DVLPRS INC	Cole Information
	WHTSTN BRONX MTL	Cole Information

FINDINGS

Year	Uses	Source
1995	B & S LUNCHEONETTE CORP	Cole Information
	WHITESTONE BRONX MOTEL	Cole Information
	CAPRI WHITESTONE MOTEL	Cole Information
1992	B & S LUNCHEONETTE CORP	Cole Information
	WHITESTONE BRONX MOTEL	Cole Information
	CAPRI WHITESTONE MOTEL	Cole Information

HUTCHNSNRIVER PKY

620 HUTCHNSNRIVER PKY

Year	Uses	Source
1965	YOUNG SAML H POST AMER LEGION 1530 HUTCHNSN RIV PKWY	New York Telephone Company

JAY PL

2471 JAY PL

Year	Uses	Source
1931	Gustanson Nils	Manhattan and Bronx Directory Publishing Company Residential Directory
	Rella Steph	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Quinn J Mrs r	New York Telephone

2478 JAY PL

Year	Uses	Source
1931	Hattrick John	Manhattan and Bronx Directory Publishing Company Residential Directory
	Hattrick Vincent	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Hattrick John r	New York Telephone

2483 JAY PL

Year	Uses	Source
1931	Johnson Emil	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Johnson Fred r	New York Telephone

FINDINGS

LACOMBE AVE

2303 LACOMBE AVE

Year	Uses	Source
1993	SCIACOVELLI PHYLLIS	New York Telephone

2311 LACOMBE AVE

Year	Uses	Source
1993	DALIMONTE CAMILLO	New York Telephone
1983	D ALIMONTE CAMILLO	New York Telephone
1976	D ALIMONTE CAMILLN	New York Telephone Company
1971	D ALIMONTE CAMILLO	New York Telephone
1965	HUTTON ELIZ H MRS	New York Telephone Company

2375 LACOMBE AVE

Year	Uses	Source
1983	RIVERA MARTE	New York Telephone

LACOMBE AVE

0 LACOMBE AVE

Year	Uses	Source
2005	Tract 36005:20 odd s	Hill-Donnelly Information Services
	Tract 36005:2 even s	Hill-Donnelly Information Services

2311 LACOMBE AVE

Year	Uses	Source
2020	MELANIE DALIMONTE	EDR Digital Archive
	JAMES CORDERO	EDR Digital Archive
	NICOLE DALIMONTE	EDR Digital Archive
	DORIS DALIMONTE	EDR Digital Archive
2017	MELANIE ALIMONTE	Cole Information
2014	DORIS DALIMONTE	Cole Information
2005	H Dalimonte Camillo AV	Hill-Donnelly Information Services
	Sako T v	Hill-Donnelly Information Services
2000	CAMILLO DALIMONTE	Cole Information
	CAMILLO DALIMONTE	Cole Information

FINDINGS

Year	Uses	Source
1993	DALIMONTE Camillo	New York Telephone
1992	D'ALIMONTE, CAMILLO	Cole Information

2325 LACOMBE AVE

Year	Uses	Source
2014	BETTY MCCOY	Cole Information

MILES AVE

2576 MILES AVE

Year	Uses	Source
2020	LISA ROMAN-VASILAKOS	EDR Digital Archive
	MINERVA RIVERA	EDR Digital Archive
	JOSE CANDELARIA	EDR Digital Archive
	EDWIN RODRIGUEZ	EDR Digital Archive
2017	LISA ROMANVASILKOS	Cole Information
	LINDA FRANCESCHINI	Cole Information
	EDWIN RODRIGUEZ	Cole Information
2014	LISA ROMAN-VASILAKOS	Cole Information
	JOSE CANDELARIA	Cole Information
2010	TOM MEYERS	Cole Information
	JOSE CANDELARIA	Cole Information
2005	ROSA MIRANDA	Cole Information
	JOAQUIN MELENDEZ	Cole Information
	OCCUPANT UNKNOWN	Cole Information
	JULISSA SUERO	Cole Information
	EDWIN RODRIGUES	Cole Information
	EDWIN RODRIGUEZ	Cole Information
	AMANDA MATHEWSON	Cole Information
	H Rodriguez EL A	Hill-Donnelly Information Services
	Tract 36005:110 odd s	Hill-Donnelly Information Services
	Tract 36005:132 even s	Hill-Donnelly Information Services

FINDINGS

2578 MILES AVE

Year	Uses	Source
2020	CHARLENE ESPONDA	EDR Digital Archive
	ERIC OCASIO	EDR Digital Archive
	TANIA RUIZ	EDR Digital Archive
	SAMANTHA COLON	EDR Digital Archive
2017	NOHELY SUAREZ	Cole Information
	TANIA RUIZ	Cole Information
2014	JOHN LEWIN	Cole Information
	EDWIN RODRIGUEZ	Cole Information
	CHRISTOPHER LANDESTOY	Cole Information
	LUCINDA ATILES	Cole Information
	TANIA RUIZ	Cole Information
2010	EDWIN RODRIGUEZ	Cole Information
	CHARLENE ESPONDA	Cole Information
	JULIO JOHN	Cole Information
	WENDY SANTOS	Cole Information
	LUCINDA GARCIA	Cole Information
	DANYELLE COLON	Cole Information
2005	G FERNANDEZ	Cole Information
	CHARLENE ESPONDA	Cole Information
	Esponda Chardene v	Hill-Donnelly Information Services
	Rodriguez Edw in v	Hill-Donnelly Information Services

2580 MILES AVE

Year	Uses	Source
2020	CARLLENI CESPEDES	EDR Digital Archive
	MARIA MORALES	EDR Digital Archive
	ALFREDO MARTINEZ	EDR Digital Archive
	JASON SCOTT	EDR Digital Archive
	AMINATA BAH	EDR Digital Archive
	AMPARO CESPEDES	EDR Digital Archive
2017	MARIA MORLAES	Cole Information
	AMARIS GARCIA	Cole Information

FINDINGS

Year	Uses	Source
2017	JASON SCOTT	Cole Information
2014	AMANDA BROWNTATE	Cole Information
	MARIA MORLAES	Cole Information
	AMARIS GARCIA	Cole Information
	DAVID LICON	Cole Information
	JASON SCOTT	Cole Information
2010	VICTORIA HERNANDEZ	Cole Information
	DESTINY ATILES	Cole Information
	AMARIS GARCIA	Cole Information
	ELAINE PETRIZZI	Cole Information
	JASON SCOTT	Cole Information
	KENIA RAMOS	Cole Information
	DAVID LICON	Cole Information
	BOVI DELLE	Cole Information
2005	JOANNE PICCININNI	Cole Information
	MADELINE GIACCHETTO	Cole Information
	ELAINE PETRIZZI	Cole Information
	KENIA RAMOS	Cole Information
	Glacchetto M v	Hill-Donnelly Information Services
	Ramos Kenia v	Hill-Donnelly Information Services

2582 MILES AVE

Year	Uses	Source
2020	JOHN LEWIN	EDR Digital Archive
	LETISHA COHEN	EDR Digital Archive
	PRESTON CHAPLIN	EDR Digital Archive
	PRESTASIA COHEN	EDR Digital Archive
	MAGDA PEREZ	EDR Digital Archive
	CASSANDRA COHEN	EDR Digital Archive
	AUTUMN RICHARDSON	EDR Digital Archive
	ANTHONY NAZARIO	EDR Digital Archive
2017	LETISHA COHEN	Cole Information
2014	JUDITH TAYLOR	Cole Information

FINDINGS

Year	Uses	Source
2014	SAMARA LEBRON	Cole Information
2010	JOHN LEWIN	Cole Information
2005	VICTOR FAUSTO	Cole Information
	MAURO PICCININNI	Cole Information
	CARRIE GREENE	Cole Information
	PICCININNI MAURO	Cole Information
	2584 NCL	Hill-Donnelly Information Services

2584 MILES AVE

Year	Uses	Source
2020	THOMAS ASANTE	EDR Digital Archive
	SONIA VELEZ	EDR Digital Archive
	NADINE PEDROSO	EDR Digital Archive
	GONZALO CORRIDORI	EDR Digital Archive
	ESTHER OBIRI	EDR Digital Archive
	JEROME PEDROSO	EDR Digital Archive
2017	THOMAS ASANTE	Cole Information
	DAVID FELLI	Cole Information
	JOYCE COLLIER	Cole Information
	TOMAS BATISTA	Cole Information
2014	JOYCE COLLIER	Cole Information
	CHRISTIN LOPEZ	Cole Information
2010	DAVID FELLI	Cole Information
	JOYCE COLLIER	Cole Information
	LEONARD PEDROSO	Cole Information
2005	JOYCE COLLIER	Cole Information
	DONALD DELLEBOVI	Cole Information

2585 MILES AVE

Year	Uses	Source
2010	MAGDA PEREZ	Cole Information
2005	MAGDA PEREZ	Cole Information

FINDINGS

2586 MILES AVE

Year	Uses	Source
2020	JULIEN STEWART	EDR Digital Archive
	KYLE EDWARD	EDR Digital Archive
	KASSIE MARAJAH	EDR Digital Archive
	RON EDWIN	EDR Digital Archive
	JULIET DESOUZA	EDR Digital Archive
	ASHELY VEGA	EDR Digital Archive
2017	JULIEN STEWART	Cole Information
	STEWART HENRY	Cole Information
	JULIET DESOUZA	Cole Information
	BEE STARR	Cole Information
2014	JULIEN STEWART	Cole Information
	STEWART HENRY	Cole Information
	JULIET DESOUZA	Cole Information
2010	JULIEN STEWART	Cole Information
2005	J JASMINE	Cole Information
	h Jasmine J	Hill-Donnelly Information Services

2588 MILES AVE

Year	Uses	Source
2020	JOSE QUINTERO	EDR Digital Archive
	SANTIAGO ZABALA	EDR Digital Archive
	XIOMARA ZABALA	EDR Digital Archive
	VICTOR PINALES	EDR Digital Archive
2017	JULIO SANTOS	Cole Information
	MAYORIS PRESBOT	Cole Information
2014	BILLY MORALES	Cole Information
	GENEVA ORTIZ	Cole Information
	LAYDA NEGRIN	Cole Information
	MAYORIS PRESBOT	Cole Information
2010	ROSA CUEVAS	Cole Information
	ZABALA SANTIAGO	Cole Information
	SANTIAGO ZABALA	Cole Information

FINDINGS

Year	Uses	Source
2005	LAYDA NEGRIN	Cole Information
	h Negnrin Layda v	Hill-Donnelly Information Services

2590 MILES AVE

Year	Uses	Source
2020	YOLANDA FONTANEZ	EDR Digital Archive
	CHANTEL RODRIGUEZ	EDR Digital Archive
	KHALIL SIKANDER	EDR Digital Archive
	ANGEL MUNIZ	EDR Digital Archive
2017	YOLANDA FONTANEZ	Cole Information
	CHANTEL RODRIGUEZ	Cole Information
	ABNER MUNIZ	Cole Information
	GEORGE LAMB	Cole Information
2014	YOLANDA FONTANEZ	Cole Information
	CHANTEL RODRIGUEZ	Cole Information
	GEORGE LAMB	Cole Information
2010	JUSTO MENDEZ	Cole Information
2005	ROBERT CANATORE	Cole Information
	JUSTO MENDEZ	Cole Information
	ROBERT CANTATORE	Cole Information
	H Cantatore R	Hill-Donnelly Information Services

2600 MILES AVE

Year	Uses	Source
2020	GREGORY PASSALACQUA	EDR Digital Archive
	JULIAN PASSALACQUA	EDR Digital Archive
	ALONIA WHITE	EDR Digital Archive
	SARAH PASBALAQUA	EDR Digital Archive
	NADINE PASSALACQUA	EDR Digital Archive
2017	GREGORY PASSALACQUA	Cole Information
	JULIAN PASSALACQUA	Cole Information
2014	GREGORY PASSALACQUA	Cole Information
	DAVID SALA	Cole Information
2010	FREDRICK RENODE	Cole Information

FINDINGS

Year	Uses	Source
2010	D SALA	Cole Information
2005	GREGORY PASSALACQUA	Cole Information
	JOSEPH ROCCHIO	Cole Information

2602 MILES AVE

Year	Uses	Source
2020	STANFORD JONES	EDR Digital Archive
	SHENIQUE JONES	EDR Digital Archive
	TERRELL SKINNER	EDR Digital Archive
	MICHAEL JONES	EDR Digital Archive
	ANIKA RICHARDSON	EDR Digital Archive
2017	MICHAEL JONES	Cole Information
2014	MIG INTERNATIONAL	Cole Information
	Z STANFORD	Cole Information
	MICHAEL JONES	Cole Information
2010	STANFORD JONES	Cole Information
	Z STANFORD	Cole Information
	ANIKA RICHARDSON	Cole Information
2005	STANFORD JONES	Cole Information
	Z STANFORD	Cole Information
	GEORGE LAMB	Cole Information
	h Lamb George AV	Hill-Donnelly Information Services

2604 MILES AVE

Year	Uses	Source
2020	GOLAM RAHMAN	EDR Digital Archive
	NAZIFA RAHMAN	EDR Digital Archive
	NIXA ROSADO	EDR Digital Archive
	G RAHMAN	EDR Digital Archive
	REYNALDO ROSADO	EDR Digital Archive
2017	GOLAM RAHMAN	Cole Information
	RAHMAN GOLAM	Cole Information
	ROBERT ROSADO	Cole Information
2014	GOLAM RAHMAN	Cole Information

FINDINGS

Year	Uses	Source
2014	RAHMAN GOLAM	Cole Information
2010	E BONILLA	Cole Information
	GOLAM RAHMAN	Cole Information
	RAHMAN GOLAM	Cole Information
2005	E BONILLA	Cole Information
	GOLAM RAHMAN	Cole Information
	RAHMAN GOLAM	Cole Information
	Bonilla E v	Hill-Donnelly Information Services
	Rahman Gulam AO	Hill-Donnelly Information Services

2606 MILES AVE

Year	Uses	Source
2020	AMANDA LLOYD	EDR Digital Archive
	AMERICO NARDIS	EDR Digital Archive
	CHASTIDY MATEO	EDR Digital Archive
	NICKOLA FRANCIS	EDR Digital Archive
	MARTIN CONTRERAS	EDR Digital Archive
	DEBBIE FRANCIS	EDR Digital Archive
2017	LOAY ALZADEN	Cole Information
	SEAN ALBINO	Cole Information
	AMERICO NARDIS	Cole Information
	FRED LANDO	Cole Information
	DEBBIE FRANCIS	Cole Information
2014	SEAN ALBINO	Cole Information
	AMERICO NARDIS	Cole Information
	DOLORES HAMES	Cole Information
	FRED LANDO	Cole Information
	DAWNETTE MCNEIL	Cole Information
	NICHOLAS BORSANI	Cole Information
2010	DOLORES HAMES	Cole Information
	DAWNETTE MCNEIL	Cole Information
2005	DAWNETTE MCNEIL	Cole Information
	Mcneil Daw nette	Hill-Donnelly Information Services

FINDINGS

2608 MILES AVE

Year	Uses	Source
2020	MERGING MARKETS REALTY CORP	EDR Digital Archive
	TAHEERAH MAHDI	EDR Digital Archive
	MICHELLE RODRIGUEZ	EDR Digital Archive
	S RODRIGUEZ	EDR Digital Archive
	SONIA RODRIGUEZ	EDR Digital Archive
	SANTIAGO VAZQUEZ	EDR Digital Archive
	SHEILA RODRIGUEZ	EDR Digital Archive
	CELSA VAZQUEZ	EDR Digital Archive
2017	TAHEERAH MAHDI	Cole Information
	SHIELA RODRIGUEZ	Cole Information
	ALFONSO RODRIGUEZ	Cole Information
2014	MICHELLE NOEMI	Cole Information
	ALFONSO RODRIGUEZ	Cole Information
2005	NATIONAL URBAN REALTORS ASCTN	Cole Information
	MERGING MARKETS REALTY CORP	Cole Information
	ALFONSO RODRIGUEZ	Cole Information
	Cruz A v	Hill-Donnelly Information Services

2610 MILES AVE

Year	Uses	Source
2020	DEBORAH CORDERO	EDR Digital Archive
	ALFONSO AMELIO	EDR Digital Archive
	ADDVOA AMANKWAAH	EDR Digital Archive
	JOSEPH CORDERO	EDR Digital Archive
	JESSE ODUARAN	EDR Digital Archive
2017	DEBORAH CORDERO	Cole Information
	ERICKA BELLO	Cole Information
2014	ARLENE OLIVARES	Cole Information
	ADAOBI EZE	Cole Information
	EDDIE OYOLA	Cole Information
2010	STEPHANIE PAEZ	Cole Information
	ALFONSO AMELIO	Cole Information

FINDINGS

Year	Uses	Source
2005	MAGNUM MEDIA GROUP INC	Cole Information
	MICHAEL ALLEN	Cole Information
	ALFONSO AMELIO	Cole Information
	JESSE ODUARAN	Cole Information
	Allen Michael v	Hill-Donnelly Information Services
	Oduaran Jesse v	Hill-Donnelly Information Services
1961	KRUPP JOHN G	New York Telephone

2612 MILES AVE

Year	Uses	Source
2020	SARA PIERCE	EDR Digital Archive
	NIESHA SOLLA	EDR Digital Archive
	HAROLD ROSENBAUM	EDR Digital Archive
	BRENDA PORTELA	EDR Digital Archive
	RALPH DIXON	EDR Digital Archive
	JOSHUA ROSENBAUM	EDR Digital Archive
2017	JOSEPH OBRIEN	Cole Information
	CRISEL CALPOTURA	Cole Information
	BRENDA PORTELA	Cole Information
2014	CATHERINE CALPOTURA	Cole Information
	JOSEPH OBRIEN	Cole Information
	MICHAEL PAGAN	Cole Information
2010	CRISEL CALPOTURA	Cole Information
	HAROLD ROSENBAUM	Cole Information
2005	KRISTI GOURDINE	Cole Information
	Gourdine Kristi v	Hill-Donnelly Information Services

2614 MILES AVE

Year	Uses	Source
2020	IRMA ORTIZ	EDR Digital Archive
	BRENDA ORTIZ	EDR Digital Archive
2017	IRMA ORTIZ	Cole Information
2014	CRUZ ORTIZ	Cole Information
2010	JOSE ORTIZ	Cole Information

Year	Uses	Source
2005	JOSE ORTIZ	Cole Information

SCHLEY AVE

2604 SCHLEY AVE

Year	Uses	Source
1993	WILKERSON CHILDRES B	New York Telephone

2616 SCHLEY AVE

Year	Uses	Source
1971	MALAVE MARIA	New York Telephone

SCHLY AVE

2604 SCHLY AVE

Year	Uses	Source
1993	WILKERSON Childres B	New York Telephone

YZNAGA PL

520 YZNAGA PL

Year	Uses	Source
1993	SHAW ELIZABETH	New York Telephone
1976	ROBINSON RUTH	New York Telephone Company
	ROBINSON RUTH	New York Telephone Company
1971	DEMARCO JOSEPH	New York Telephone
1965	BOEHM VALENTINE	New York Telephone Company

525 YZNAGA PL

Year	Uses	Source
1983	MURRAY I	New York Telephone

526 YZNAGA PL

Year	Uses	Source
1993	ARNTSEN JOHN R	New York Telephone
1983	ARNTSEN JOHN R	New York Telephone
1976	ARNTSEN JOHN R	New York Telephone Company

Year	Uses	Source
1971	ARNTSEN JOHN R	New York Telephone
1965	ARSTSEN JOHN R	New York Telephone Company

527 YZNAGA PL

Year	Uses	Source
1976	JONES JOHN W	New York Telephone Company
1971	PESCE NELLIE MRS	New York Telephone
1965	PESCE FRANK A	New York Telephone Company

534 YZNAGA PL

Year	Uses	Source
1983	FIORE A	New York Telephone
1976	FIORE A	New York Telephone Company
1971	FIORE A	New York Telephone
1965	FIORE A	New York Telephone Company

536 YZNAGA PL

Year	Uses	Source
1983	FIORE DOMINICK	New York Telephone
1976	FIORE DOMINICK	New York Telephone Company
1971	FIORE DAMINICK	New York Telephone
1965	FIORE DOMINICK	New York Telephone Company

641 YZNAGA PL

Year	Uses	Source
1983	REGINA JOHN	New York Telephone
1976	REGINA JOHN	New York Telephone Company
1971	REGINA JOHN	New York Telephone
1965	REGINA JOHN	New York Telephone Company

YZNAGA PL

520 YZNAGA PL

Year	Uses	Source
2020	CLIFFCO LI INC	EDR Digital Archive
	FERRY POINT INDUSTRIES	EDR Digital Archive

FINDINGS

Year	Uses	Source
2017	FERRY POINT INDUSTRIES	Cole Information
	CLIFFCO II INC	Cole Information
2014	FERRY POINT INDUSTRIES	Cole Information
	CLIFFCO II INCORPORATED	Cole Information
2010	CJB EQUIPMENT RENTAL CORP	Cole Information
	C F	Cole Information
1993	SHAW Elizabeth	New York Telephone
1992	SHAW, ELIZABETH	Cole Information
1940	Baxter Mary A	New York Telephone
	Mc Evily Gloria Mrs	New York Telephone

525 YZNAGA PL

Year	Uses	Source
2017	TIJUANA MURRAY	Cole Information
2014	TIJUANA MURRAY	Cole Information
2010	JEANNINE FERRANDI	Cole Information
2005	TERRY MURRAY	Cole Information
	H Murray I AA	Hill-Donnelly Information Services
2000	I MURRAY	Cole Information
	IDA MURRAY	Cole Information
1992	MURRAY, I	Cole Information
1940	Mulvihill Susan J	New York Telephone
1931	Mulvihill Chris H R	Manhattan and Bronx Directory Publishing Company Residential Directory

526 YZNAGA PL

Year	Uses	Source
2005	534 536 NCL	Hill-Donnelly Information Services
2000	JOHN R ARMTSEN	Cole Information
	JOHN ARNTSEN	Cole Information
1993	ARNTSEN John R	New York Telephone
1992	ARNTSEN, JOHN R	Cole Information
1931	Hoffman Raymond	Manhattan and Bronx Directory Publishing Company Residential Directory

FINDINGS

527 YZNAGA PL

Year	Uses	Source
2005	CLIFFORD FERRANDI	Cole Information
2000	C FERRANDI	Cole Information

530 YZNAGA PL

Year	Uses	Source
1940	Bader M	New York Telephone

534 YZNAGA PL

Year	Uses	Source
2005	NESTOR PINO	Cole Information
2000	A RORE	Cole Information
	ANGELO FIORE	Cole Information
1992	FIORE, A	Cole Information

536 YZNAGA PL

Year	Uses	Source
2005	FRANK SALAMONE	Cole Information
2000	CANNADY SORTS SVCS	Cole Information
	G B C REALTY CORP	Cole Information
	PHASE I ASSOC INC	Cole Information
	D FIORE	Cole Information
	DOMENICK FIORE	Cole Information
	DONNA FIORE	Cole Information
1992	FIORE, D	Cole Information
1940	Baxter Walter C	New York Telephone

570 YZNAGA PL

Year	Uses	Source
2000	EXPLO POWDER INC	Cole Information

641 YZNAGA PL

Year	Uses	Source
1992	REGINA, JOHN	Cole Information
1940	Meichner Wm	New York Telephone

Year	Uses	Source
1931	Meichner Wm	Manhattan and Bronx Directory Publishing Company Residential Directory

YZNAGA STREET PL

520 YZNAGA STREET PL

Year	Uses	Source
1961	BOEHM VALENTINE	New York Telephone

526 YZNAGA STREET PL

Year	Uses	Source
1961	SIMMONDS JOSEPHINE E MRS	New York Telephone

527 YZNAGA STREET PL

Year	Uses	Source
1961	PESCE FRANK A	New York Telephone

534 YZNAGA STREET PL

Year	Uses	Source
1961	FIORE A	New York Telephone

536 YZNAGA STREET PL

Year	Uses	Source
1961	FIORE DOMINICK	New York Telephone

641 YZNAGA STREET PL

Year	Uses	Source
1961	REGINA JOHN	New York Telephone

ZEREGA AVE

430 ZEREGA AVE

Year	Uses	Source
1976	NASSETTA JOS	New York Telephone Company
1971	NASSETTA JOS	New York Telephone
1965	NASSETTA JOS	New York Telephone Company

FINDINGS

432 ZEREGA AVE

Year	Uses	Source
1983	DEFIORE SAM	New York Telephone
1976	DEFIORE SAM	New York Telephone Company
1971	DEFIORE SAM	New York Telephone
	MASCIA MARY MRS	New York Telephone
	MURPHY JOS G	New York Telephone
1965	DEFIORE SAM	New York Telephone Company
	HARDEN HAZEL	New York Telephone Company
	MASCIAN TONY	New York Telephone Company

450 ZEREGA AVE

Year	Uses	Source
1976	COTT CORP	New York Telephone Company
	IDEAL DISTRIBTRS	New York Telephone Company
1971	COTT CORP	New York Telephone
	IDEAL DISTRIBTRS	New York Telephone
1965	COTT CORP	New York Telephone Company
	IDEAL DISTRIBTRS	New York Telephone Company

455 ZEREGA AVE

Year	Uses	Source
1983	HINES GEO	New York Telephone
1976	GERENA JOSE	New York Telephone Company
1971	GERENA JOSE	New York Telephone
	HINES GEO	New York Telephone
1965	HINES GEO	New York Telephone Company
	HOY CHAS A	New York Telephone Company

489 ZEREGA AVE

Year	Uses	Source
1965	REIMER HAROLD JR	New York Telephone Company

500 ZEREGA AVE

Year	Uses	Source
1971	DELBALSO CONST CORP	New York Telephone

FINDINGS

ZEREGA AVE

420 ZEREGA AVE

Year	Uses	Source
2017	HUDSON RSS SRVCS	Cole Information
2014	HUDSON RSS SRVCS	Cole Information
1993	MIGOYA CONSTR CORP	New York Telephone
1992	MIGOYA CONSTR CORP	Cole Information

426 ZEREGA AVE

Year	Uses	Source
2020	JO-LO BUS CO	EDR Digital Archive

427 ZEREGA AVE

Year	Uses	Source
2020	RAHEEM ROSS	EDR Digital Archive
	CIARRA BLASINI	EDR Digital Archive
	JEFFREY SCHWARTZ	EDR Digital Archive
2017	RAHEEM ROSS	Cole Information
	HERMAN GARMENT	Cole Information
	JOHNNY BLASINI	Cole Information
2014	OCCUPANT UNKNOWN	Cole Information
	MAILYN OCASIO-GOYTIA	Cole Information
	PRENTIS PRICHETT	Cole Information
	OLGA GOYTIA	Cole Information
	JOHNNY BLASINI	Cole Information
2010	OCCUPANT UNKNOWN	Cole Information
2005	OCCUPANT UNKNOWN	Cole Information
	HECTOR CAMARA	Cole Information
	ELLIOT LOCICERO	Cole Information
	EVARISTO HERNANDEZ	Cole Information
	JEFFREY SCHWARTZ	Cole Information

428 ZEREGA AVE

Year	Uses	Source
2005	LOGAN REALTY	Cole Information

FINDINGS

429 ZEREGA AVE

Year	Uses	Source
2020	CHASTITY HAMILTON	EDR Digital Archive
	JANI ELLIS	EDR Digital Archive
	MILTON SILVERA	EDR Digital Archive
	GEORGE LETT	EDR Digital Archive
	YVETTE ROSAS	EDR Digital Archive
	NICOLA HOUDHAN	EDR Digital Archive
2017	JORGE ELLIS	Cole Information
	YVETTE ROSAS	Cole Information
	CHASTITY CRUZ	Cole Information
	NICOLA HOUDHAN	Cole Information
	TAIF DAVIS	Cole Information
2014	MILTON SILVERA	Cole Information
	JORGE ELLIS	Cole Information
	YVETTE ROSAS	Cole Information
	TAIF DAVIS	Cole Information
	NICOLA HOUDHAN	Cole Information
2010	OCCUPANT UNKNOWN	Cole Information
	GEORGE LETT	Cole Information
	MILTON SILVERA	Cole Information
2005	OCCUPANT UNKNOWN	Cole Information
	RAYLYN OCASIO	Cole Information
	MILTON SILVERA	Cole Information
	TAIF DAVIS	Cole Information

430 ZEREGA AVE

Year	Uses	Source
2000	SONIA COGLITORE	Cole Information
1956	BUBEL WM	New York Telephone
1949	BRIDGE VIEW BOAT HAULAGE CO	New York Telephone
	WHITE CAPS BOATS CO	New York Telephone

FINDINGS

431 ZEREGA AVE

Year	Uses	Source
2020	CHARLES FALCOM	EDR Digital Archive
	JULIUS LEWIS	EDR Digital Archive
	ODETTE MCCARTNEY	EDR Digital Archive
	MILZA NIETO	EDR Digital Archive
	JAMES LOGAN	EDR Digital Archive
	CARLOS TORRENS	EDR Digital Archive
	MATTIE LIBURD	EDR Digital Archive
	DILIA TRAVIESO	EDR Digital Archive
2017	JULIUS LEWIS	Cole Information
	MATTIE LIBURD	Cole Information
	JONATAN MOTA	Cole Information
2014	L ODETTE	Cole Information
	BRITTANY MARTINEZ	Cole Information
	JOHNNY BLASINI	Cole Information
	MATTIE LIBURD	Cole Information
2010	L ODETTE	Cole Information
	JOHNNY BLASINI	Cole Information
	MATTIE LIBURD	Cole Information
2005	MILZA AULLA	Cole Information
1992	FRANQUI, LORRAINE C	Cole Information

432 ZEREGA AVE

Year	Uses	Source
2020	MANUEL DOMENECH	EDR Digital Archive
	BELKIS DOMENECH	EDR Digital Archive
	ADIRIAN BANNISTER	EDR Digital Archive
	RAFAEL MALDONADO	EDR Digital Archive
2017	ELSY VALESQUEZ	Cole Information
	BELKIS DOMENECH	Cole Information
2014	MANUEL DOMENECH	Cole Information
	ELSY VALESQUEZ	Cole Information
	D CORA	Cole Information

FINDINGS

Year	Uses	Source
2014	RAFAEL MALDONADO	Cole Information
2010	LOGAN BUS CO INC	Cole Information
	GRANDPAS & BOBBYS BUS CO	Cole Information
	GINA DIAZ	Cole Information
2005	CAROLE GALLINA	Cole Information
	PATRICIA LANGERT	Cole Information
	Gallina Carol A	Hill-Donnelly Information Services
2000	RAILROAD MAINTENANCE CORPORATION	Cole Information
	KLOSK MICHAEL J ATTORNEY	Cole Information
1995	RAILROAD MAINTENANCE CORP	Cole Information
	KLOSK, MICHAEL J, ATTY	Cole Information
	RAILROAD MAINTNCE CORP	Cole Information
	LAWRENCE CONTRACTORS LTD	Cole Information
1993	KLOSK MICHAEL J ATTY	New York Telephone
	LAWRENCE CONTRACTORS LTD	New York Telephone
	RAILROAD MAINTENANCE CORP	New York Telephone
	RAILROAD MAINTNCE CORP	New York Telephone
	TPK CONSTR	New York Telephone
	DE FIORE ROSE	New York Telephone
	DE FIORE Rose	New York Telephone
1992	RAILROAD MAINTENANCE CORP	Cole Information
	KLOSK, MICHAEL J, ATTY	Cole Information
	RAILROAD MAINTNCE CORP	Cole Information
	LAWRENCE CONTRACTORS LTD	Cole Information
	TPK CONSTR	Cole Information
	DE FIORE, ROSE	Cole Information
1983	LAWRENCE CONTRACTORS LTD	New York Telephone
	LAWRENCE CONTRACTORS LTD	New York Telephone
	RAILROAD MAINTENANCE CORP	New York Telephone
1976	LAWRENCE CONTRACTORS LTD	New York Telephone Company
	RAILR0D MAINTENANCE CORP	New York Telephone Company
1961	SEATON SIDNEY W	New York Telephone

FINDINGS

Year	Uses	Source
1956	AL S MARINE SALES & SVCE	New York Telephone
	BORNEMANN RITA MRS	New York Telephone

433 ZEREGA AVE

Year	Uses	Source
2020	NIJA LESLIE	EDR Digital Archive
	JESSIE SCOTT	EDR Digital Archive
	RUEBEN ORTIZ	EDR Digital Archive
	LINDA CASTANON	EDR Digital Archive
	PHILLIP GUBISH	EDR Digital Archive
	EYITEMI OGHOGHO	EDR Digital Archive
	TAHMID CHOUDHURY	EDR Digital Archive
	DEJON PILLMAN	EDR Digital Archive
	YESENIA SCALICE	EDR Digital Archive
	TEANETTE WEAVER	EDR Digital Archive
	CHANTAL CASTANON	EDR Digital Archive
	JESSICA LOPEZ	EDR Digital Archive
	LINDA MALDONADO	EDR Digital Archive
	FARHANA CHOUDHURY	EDR Digital Archive
	MICHAEL WEAVER	EDR Digital Archive
	YESENIA RODRIGUEZ	EDR Digital Archive
	STIRTON PATTERSON	EDR Digital Archive
2017	JESSIE SCOTT	Cole Information
	CARL CASTANON	Cole Information
	SEAN PATTERSON	Cole Information
	CLARIBEL REYNOSO	Cole Information
	EDDY MARTE	Cole Information
	JESSIE SCALICE	Cole Information
	FARHANA CHOUDHURY	Cole Information
2014	JOSEPHINE LANDESTOY	Cole Information
	RUEBEN ORTIZ	Cole Information
	CARL CASTANON	Cole Information
	CLARIBEL REYNOSO	Cole Information

FINDINGS

Year	Uses	Source
2014	ZAMAL AHMED	Cole Information
	ORLANDO RIVERA	Cole Information
	SOLANGE VELEZ	Cole Information
2010	CHANTAL CASTANON	Cole Information
	MOKBUL CHOUDHURY	Cole Information
	ANGELA VELEZ	Cole Information
2005	JOSEPHINE LANDESTOY	Cole Information
	IRBIA FONSECA	Cole Information
	GRACIALINA VELEZ	Cole Information
	JACK SCALICE	Cole Information

435 ZEREGA AVE

Year	Uses	Source
2020	JEFFREY SCHWARTZ	EDR Digital Archive
2017	ISABEL HERNANDEZ	Cole Information
	FREDY GUERRERO	Cole Information
2014	OCCUPANT UNKNOWN	Cole Information
	JENNIFER MATOS	Cole Information
	ISABEL HERNANDEZ	Cole Information
	FREDY GUERRERO	Cole Information
2010	OCCUPANT UNKNOWN	Cole Information
	AVROM GOLD	Cole Information
	ORIN HENDRICKS	Cole Information
	ISABEL HERNANDEZ	Cole Information
	EMMANUELA GIALLEGO	Cole Information
2005	MICHAEL LIBURD	Cole Information
	ORIN HENDRICKS	Cole Information
	ISABEL HERNANDEZ	Cole Information
	JEFFREY SCHWARTZ	Cole Information
	Liburd Mattle v	Hill-Donnelly Information Services
	Ortiz Carmen v	Hill-Donnelly Information Services

FINDINGS

437 ZEREGA AVE

Year	Uses	Source
2020	AMANDA SAXON	EDR Digital Archive
	JOHN DERAFFELE	EDR Digital Archive
	JENNIFER GUZMAN	EDR Digital Archive
	YOLANDA SASTRE	EDR Digital Archive
2017	ISRAEL GUZMAN	Cole Information
	WILFREDO TORRES	Cole Information
	DANIELLE KUVERUA	Cole Information
	CHAYENNE THOMPSON	Cole Information
2014	MARIBEL GONELL	Cole Information
	CRUZ MILLAN	Cole Information
2010	FRANCISCO MACIAS	Cole Information
	R BOWMAN	Cole Information
	NGURIMUJE UANINI	Cole Information
	AMANDA SAXON	Cole Information
	JOHN DERAFFELE	Cole Information
2005	R BOWMAN	Cole Information
	NGERIMO MIEZE	Cole Information
	Bow man R v V	Hill-Donnelly Information Services

439 ZEREGA AVE

Year	Uses	Source
2020	JOHN DERAFFELE	EDR Digital Archive
	AMBA FRALIN	EDR Digital Archive
	MELANIE MALERO	EDR Digital Archive
	CHERYL VANNOY	EDR Digital Archive
2017	ANDREW LEBRON	Cole Information
	JOHN DERAFFELE	Cole Information
	DORIS WHITE	Cole Information
	PETER CONSTANTINO	Cole Information
	CECILLE WALLACE	Cole Information
	ZUALMY DISLA	Cole Information
	NICOLE WHITE	Cole Information

FINDINGS

Year	Uses	Source
2014	ANDREW LEBRON	Cole Information
	JOHN DERAFFELE	Cole Information
	A BLOUNT	Cole Information
	AVROM GOLD	Cole Information
	JACK WHITE	Cole Information
	PETER CONSTANTINO	Cole Information
	TARA HOWARD	Cole Information
	CECILLE WALLACE	Cole Information
2010	LINDA CLINKSSCALES	Cole Information
	JACK WHITE	Cole Information
	PETER CONSTANTINO	Cole Information
2005	LINDA CLINKSSCALES	Cole Information
	JACK WHITE	Cole Information
	Blount Eveyin v	Hill-Donnelly Information Services
	Cllnkscales Linda Av	Hill-Donnelly Information Services
	White Jack A	Hill-Donnelly Information Services

450 ZEREGA AVE

Year	Uses	Source
2020	ATM	EDR Digital Archive
	GVC LI	EDR Digital Archive
	GBC	EDR Digital Archive
	GVC LTD	EDR Digital Archive
	GVC	EDR Digital Archive
	MICHAEL LAVALLIE	EDR Digital Archive
	NIKITA LAVALLIE	EDR Digital Archive
	GERRI LAVALLIE	EDR Digital Archive
2017	GVC LTD	Cole Information
	G V C	Cole Information
	GVC II	Cole Information
2014	G V C	Cole Information
	GVC II	Cole Information
2010	GBC LTD	Cole Information

FINDINGS

Year	Uses	Source
2010	GVC II	Cole Information
2005	GBC	Hill-Donnelly Information Services
	GBC LTD	Hill-Donnelly Information Services
	Lavalle Micheal	Hill-Donnelly Information Services
	GVC	Cole Information
	Q T MINIBUS OF THE BRONX	Cole Information
2000	QT MINI BUS OF THE BRONX	Cole Information
	GVC	Cole Information
1995	CRYSTAL CHEMICAL CORP	Cole Information
1993	BASF CORP	New York Telephone
1992	BASF CORP	Cole Information
1983	LIMBACHR PAINT & COLOR WORKS INC	New York Telephone

455 ZEREGA AVE

Year	Uses	Source
2005	NCL	Hill-Donnelly Information Services
	Tract 36005:102 N/A	Hill-Donnelly Information Services
2000	JORGE CRUZ	Cole Information
1993	CRUZ WENDELL	New York Telephone
	CRUZ Wendell	New York Telephone
1992	CRUZ, WENDELL	Cole Information
1956	CONTE LOUIS	New York Telephone
	FRANCO CARMELO	New York Telephone

487 ZEREGA AVE

Year	Uses	Source
2010	HOUSES ZEREGA	Cole Information
2005	HOUSES ZEREGA	Cole Information

489 ZEREGA AVE

Year	Uses	Source
1956	CONVERTINO MICHL	New York Telephone
	PERROTTI PAT	New York Telephone
1940	Lynch J	New York Telephone

FINDINGS

492 ZEREGA AVE

Year	Uses	Source
1940	Reimer Harold	New York Telephone

493 ZEREGA AVE

Year	Uses	Source
1956	SACKS CELIA MRS GROCRY	New York Telephone

500 ZEREGA AVE

Year	Uses	Source
2005	VERIZON	Cole Information
1961	DEL BALSO CONST CORP	New York Telephone
	DELPHI CONST CO INC	New York Telephone
1956	DEL BALSO CONST CORP	New York Telephone
	DELPHI CONST CO INC	New York Telephone
1949	DEL BALSA CONST CORP	New York Telephone
1940	Del Balso Asphalt Corp	New York Telephone
	Del Balso Constr Corp	New York Telephone

501 ZEREGA AVE

Year	Uses	Source
2014	KEL MAR DESIGNS INCORPORATED	Cole Information
	KE MAR DESIGNS INCORPORATED	Cole Information

507 ZEREGA AVE

Year	Uses	Source
1956	FAUST JOS L	New York Telephone

530 ZEREGA AVE

Year	Uses	Source
2017	GVC I	Cole Information
	GVC	Cole Information
2014	GVC I	Cole Information
	GVC	Cole Information
2010	GVC	Cole Information
	GVC LTD	Cole Information

535 ZEREGA AVE

Year	Uses	Source
2020	NY ROAD RUNNERS CLUB	EDR Digital Archive

537 ZEREGA AVE

Year	Uses	Source
2010	JASON LAGUNA	Cole Information
2005	JASON LAGUNA	Cole Information

570 ZEREGA AVE

Year	Uses	Source
2017	EXPLO POWDER INC	Cole Information
2014	EXPLO POWDER INCORPORATED	Cole Information
2005	EXPLO POWDER INC	Cole Information
2000	EXPLO POWDER INCORPORATED	Cole Information
1995	EXPLO POWDER INC	Cole Information
1992	EXPLO INC	Cole Information
	VINOCON INC	Cole Information

493A ZEREGA AVE

Year	Uses	Source
1983	CO-OP SECURITY L	New York Telephone

ZEREGA AVE # 3

431 ZEREGA AVE # 3

Year	Uses	Source
2020	JOHNNY BLASINI	EDR Digital Archive

435 ZEREGA AVE # 3

Year	Uses	Source
2020	MICHAEL LIBURD	EDR Digital Archive

ZEREGA AVE # A

433 ZEREGA AVE # A

Year	Uses	Source
2020	MOKBUL CHOUDHURY	EDR Digital Archive

FINDINGS

435 ZEREGA AVE # A

Year	Uses	Source
2020	ISABEL HERNANDEZ	EDR Digital Archive

ZEREGA AVE # B

429 ZEREGA AVE # B

Year	Uses	Source
2020	KEICY RODRIGUEZ	EDR Digital Archive

ZEREGA AVE # C

429 ZEREGA AVE # C

Year	Uses	Source
2020	CHASTITY CRUZ	EDR Digital Archive

435 ZEREGA AVE # C

Year	Uses	Source
2020	JOHANNA INFANTE	EDR Digital Archive

437 ZEREGA AVE # C

Year	Uses	Source
2020	CHAYENNE THOMPSON	EDR Digital Archive
	TIFFANY THOMPSON	EDR Digital Archive

ZERESA AVE

500 ZERESA AVE

Year	Uses	Source
1965	DEL BALSO CONST CORP	New York Telephone Company

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
0 LACOMBE AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
1 Schley Ave	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
196 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
196 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
198 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
200 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
200 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
201 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
202 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
202 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
202 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
202 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
202 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
202 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
204 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
230 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
230 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
230 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
230 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
230 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
230 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2303 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2311 LACOMBE AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
232 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
232 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2325 LACOMBE AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
236 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
236 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
236 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
236 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
236 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
236 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
236 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
237 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2375 LACOMBE AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
238 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
238 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
239 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
240 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
240 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
240 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
240 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
240 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
244 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
244 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
245 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
245 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
245 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
245 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
245 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
245 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
245 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
245 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
246 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
246 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2471 JAY PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
2471 JAY PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931
2478 JAY PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931
2478 JAY PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
248 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
248 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
248 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
248 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
248 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
248 HOSMER AVE # 2	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2483 JAY PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
2483 JAY PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931
250 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
250 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
250 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
251 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
251 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
251 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
251 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
251 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
251 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
252 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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252 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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253 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
253 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
253 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
254 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
254 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
254 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
254 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
254 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
255 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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255 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
255 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
255 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
256 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
256 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
256 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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256 HOSMER AVE # A	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
257 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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257 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
257 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
257 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
257 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
257 HOSMER AVE # A	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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2576 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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2576 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2576 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2576 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2576 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2577 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
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2577 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2577 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2577 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2577 HARDING AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2577 HARDING AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2578 HARDING AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2578 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2578 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2578 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2578 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2578 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2578 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2578 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2578 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2578 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2579 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2579 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2579 HARDING AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2579 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2579 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2579 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
258 HOSMER AVE # A	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
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2580 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 HARDING AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2580 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2581 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2581 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2581 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2581 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2581 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2581 HARDING AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2582 HARDING AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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2582 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2582 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2582 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2582 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2582 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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2582 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2582 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2582 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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2583 HARDING AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2583 HARDING AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2583 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2583 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2583 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2584 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2584 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2584 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2584 HARDING AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2584 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2584 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2584 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2584 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2584 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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2585 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2585 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2585 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2585 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2585 HARDING AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2585 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2585 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2586 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2586 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2586 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2586 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2586 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2586 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2586 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2587 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2587 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2587 HARDING AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2587 HARDING AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2587 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2587 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2587 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
2588 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2588 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2588 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2588 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2588 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2589 HARDING AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2589 HARDING AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2589 HARDING AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2589 HARDING AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2589 HARDING AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
259 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
259 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
259 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
259 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
259 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
259 HOSMER AVE # A	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
259 HOSMER AVE # B	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2590 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2590 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2590 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2590 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2590 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
260 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
260 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
260 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
260 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
260 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2600 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2600 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2600 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2600 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2600 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2602 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2602 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2602 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2602 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2602 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2604 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2604 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2604 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2604 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2604 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2604 SCHLEY AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2604 SCHLY AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
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2606 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2606 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2606 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2608 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2608 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2608 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2608 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
261 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
261 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
261 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
261 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
261 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
261 HOSMER AVE # B	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2610 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2610 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2610 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2610 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2610 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2610 MILES AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
2612 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
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2612 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2612 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2612 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2614 MILES AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2614 MILES AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2614 MILES AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2614 MILES AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2614 MILES AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
2616 SCHLEY AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
262 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
262 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
262 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
262 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
262 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
263 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
263 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
263 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
263 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
264 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
265 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
265 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
265 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
265 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
265 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
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266 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
266 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
266 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931
266 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
266 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
267 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
267 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
267 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
267 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
267 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
267 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
268 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

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268 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
268 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
268 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
268 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
268 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
268 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
268 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
268 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
269 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
269 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
269 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
269 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
269 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
269 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
269 HOSMER AVE # A	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
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270 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
270 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
271 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
271 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
271 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
271 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
271 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
271 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
272 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
272 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
272 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
272 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
272 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
272 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
272 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
272 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
272 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
272 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
272 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
272 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
272 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
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274 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
274 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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276 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
276 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMAR AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
277 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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278 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 EMERSON AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
278 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
295 HOSMER AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
295 HOSMER AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
3 Schley Ave	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
400 HUTCHINSON RIVER PKWY	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
420 HUTCHINSON RIVER PKWY	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
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420 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
420 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
420 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
420 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
426 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
427 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
427 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
427 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
427 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
427 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
428 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
429 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
429 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
429 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
429 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
429 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
429 ZEREGA AVE # B	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
429 ZEREGA AVE # C	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
430 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
430 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
430 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
430 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1949, 1940, 1931, 1927
430 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1940, 1931, 1927
430 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
431 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
431 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
431 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
431 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
431 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
431 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
431 ZEREGA AVE # 3	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
432 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
433 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
433 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
433 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
433 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
433 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
433 ZEREGA AVE # A	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE # 3	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE # A	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
435 ZEREGA AVE # C	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
437 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
437 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
437 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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437 ZEREGA AVE # C	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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439 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
439 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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450 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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450 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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450 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
450 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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455 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
455 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1949, 1940, 1931, 1927
455 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
455 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
455 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
455 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
460 HUTCHINSON RIVER PKWY	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
487 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
487 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
489 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
489 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1949, 1940, 1931, 1927
489 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
492 Hutchinson River Pkwy	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
492 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
493 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1949, 1940, 1931, 1927
493A ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 BRUSH AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
500 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 BRUSH AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 Hutchinson River Parkway	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 HUTCHINSON RIVER PKWY	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 HUTCHINSON RIVER PKWY	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 HUTCHINSON RIVER PKY	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 HUTCHINSON RIVER PKY	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1949, 1940, 1931, 1927
500 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
500 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1940, 1931, 1927
500 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
500 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
500 ZERESA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
501 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
501 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
504 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
504 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
504 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
507 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1949, 1940, 1931, 1927
509 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
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509 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
509 BRUSH AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
509 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
509 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
509 BRUSH AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
509 BRUSH AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
509 BRUSH AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
510 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
510 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
510 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
510 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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515 BRUSH AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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515 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
515 BRUSH AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
517 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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520 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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520 YZNAGA PL	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA PL	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
520 YZNAGA STREET PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
525 Hutchinson River Pkwy	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
525 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
525 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
525 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
525 YZNAGA PL	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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525 YZNAGA PL	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
525 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
525 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
526 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
526 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
526 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
526 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
526 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
526 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
526 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
526 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
526 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
526 YZNAGA PL	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
526 YZNAGA STREET PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
527 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
527 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
527 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
527 YZNAGA PL	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
527 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
527 YZNAGA STREET PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927

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Address Researched	Address Not Identified in Research Source
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528 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931
529 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
529 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
529 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
529 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
529 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
529 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
529 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
529 BRUSH AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
530 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
530 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927
530 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
530 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
530 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
531 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
531 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
531 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931
531 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
534 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
534 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
534 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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534 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
534 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
534 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
534 YZNAGA PL	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
534 YZNAGA STREET PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
535 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
535 ZEREGA AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
536 YZNAGA STREET PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
537 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
537 ZEREGA AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
545 BRUSH AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
545 BRUSH AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
545 Brush Ave	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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550 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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550 Brush Ave	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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550 BRUSH AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
550 BRUSH AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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552 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
553 HUTCHINSON RIVER PKWY	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
553 HUTCHINSON RIVER PKWY	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
553 HUTCHINSON RIVER PKY	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKWY	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKWY	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKWY	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

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555 HUTCHINSON RIVER PKWY	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKY	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKY	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKY	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKY	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
555 HUTCHINSON RIVER PKY	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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570 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
570 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
570 ZEREGA AVE	2020, 2017, 2014, 2010, 2005, 2000, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
570 ZEREGA AVE	2020, 2017, 2014, 2010, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
570 ZEREGA AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
570 ZEREGA AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
620 HUTCHNSNRIVER PKY	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
630 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931
641 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
641 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
641 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
641 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
641 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
641 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
641 YZNAGA PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
641 YZNAGA STREET PL	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1956, 1949, 1940, 1931, 1927
650 BRUSH AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
650 BRUSH AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
650 Brush Ave	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
650 BRUSH AVE	2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
650 BRUSH AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
666 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
680 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
680 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1965, 1961, 1956, 1949, 1940, 1931, 1927
680 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
680 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1927
680 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
680 BRUSH AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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680 BRUSH AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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682 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

FINDINGS

Address Researched	Address Not Identified in Research Source
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682 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1961, 1956, 1949, 1940, 1931, 1927
682 BRUSH AVE	2020, 2017, 2014, 2010, 2005, 2000, 1995, 1993, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
682 BRUSH AVE	2020, 2017, 2014, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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682 BRUSH AVE	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
682 BRUSH AVE	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
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699 BRUSH AVE	2020, 2017, 2014, 2010, 1995, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
700 HUTCHINSON RIVER PKWY	2020, 2014, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927
700 HUTCHINSON RIVER PKWY	2020, 2017, 2010, 2005, 2000, 1995, 1993, 1992, 1983, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
450 Hutchinson River Parkway	2020, 2017, 2014, 2010, 2005, 1995, 1992, 1976, 1971, 1965, 1961, 1956, 1949, 1940, 1931, 1927

Proposed Ballys Casino - Ring Road

450 Hutchinson River Parkway

Bronx, NY 10465

Inquiry Number: 7720624.11

July 30, 2024

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EDR Aerial Photo Decade Package

07/30/24

Site Name:

Proposed Ballys Casino - Ring
450 Hutchinson River Parkway
Bronx, NY 10465
EDR Inquiry # 7720624.11

Client Name:

Langan Engineering, Inc.
360 W. 31st Street
New York, NY 10001
Contact: Kaitlyn Gioia

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Search Results:

Year	*Scale*	*Details*	*Source*
2019	1"=500'	Flight Year: 2019	USDA/NAIP
2015	1"=500'	Flight Year: 2015	USDA/NAIP
2011	1"=500'	Flight Year: 2011	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1994	1"=500'	Acquisition Date: April 08, 1994	USGS/DOQQ
1985	1"=500'	Flight Date: March 16, 1985	USDA
1980	1"=500'	Flight Date: July 25, 1980	NOAA
1974	1"=500'	Flight Date: September 15, 1974	NOAA
1966	1"=500'	Flight Date: February 23, 1966	USGS
1962	1"=500'	Flight Date: January 16, 1962	EDR Proprietary Aerial Viewpoint
1954	1"=500'	Flight Date: January 08, 1954	USGS
1951	1"=500'	Flight Date: April 20, 1951	EDR Proprietary Aerial Viewpoint
1924	1"=500'	Flight Date: July 01, 1924	FAIR

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INQUIRY #: 7720624.11

YEAR: 2019

= 500'

N

EDR

INQUIRY #: 7720624.11
YEAR: 2015
= 500'
N
EDR

INQUIRY #: 7720624.11
YEAR: 2011
= 500'
N
EDR

INQUIRY #: 7720624.11
YEAR: 2006
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EDR

INQUIRY #: 7720624.11

YEAR: 1994

= 500'

N

EDR

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EDR

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EDR

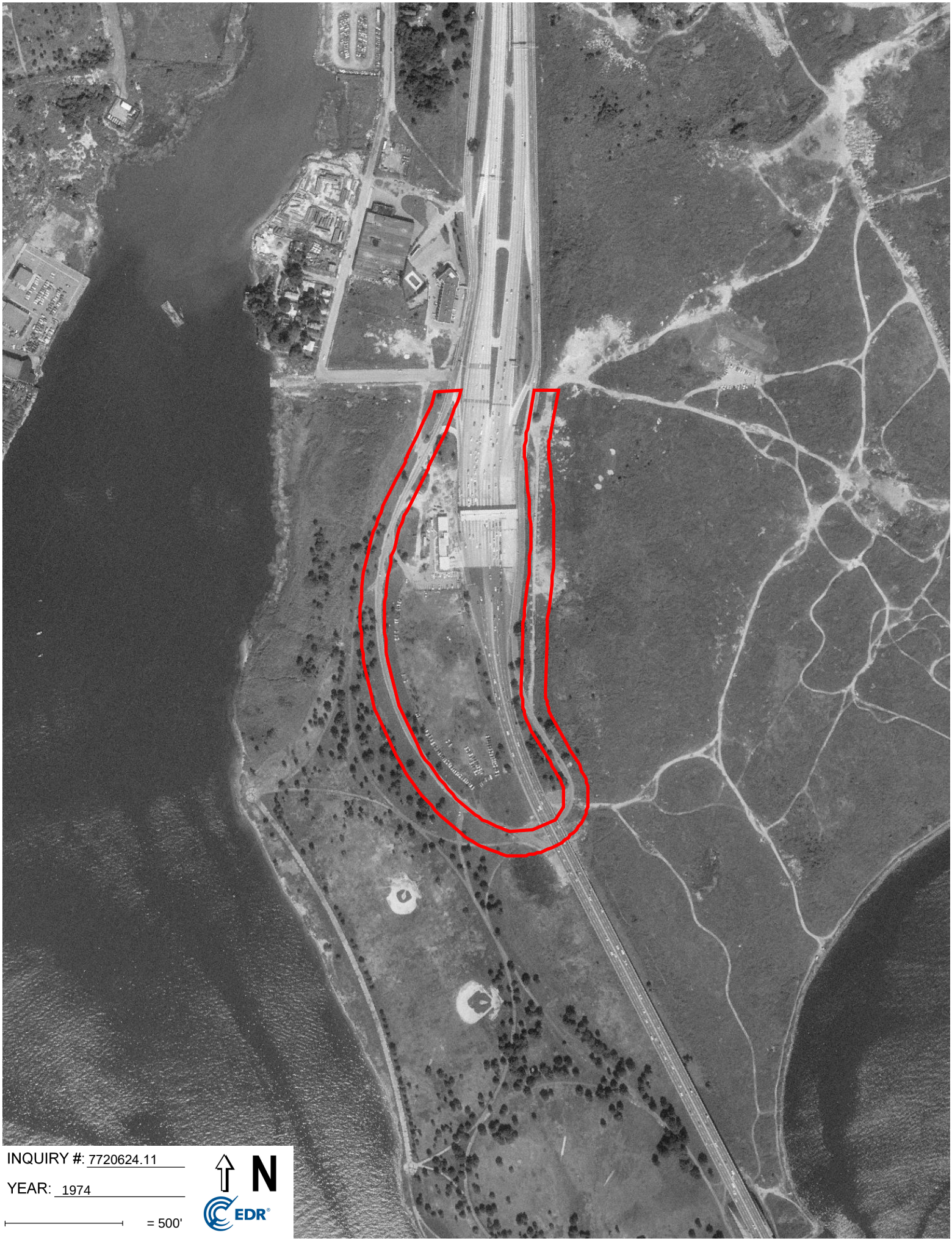

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EDR

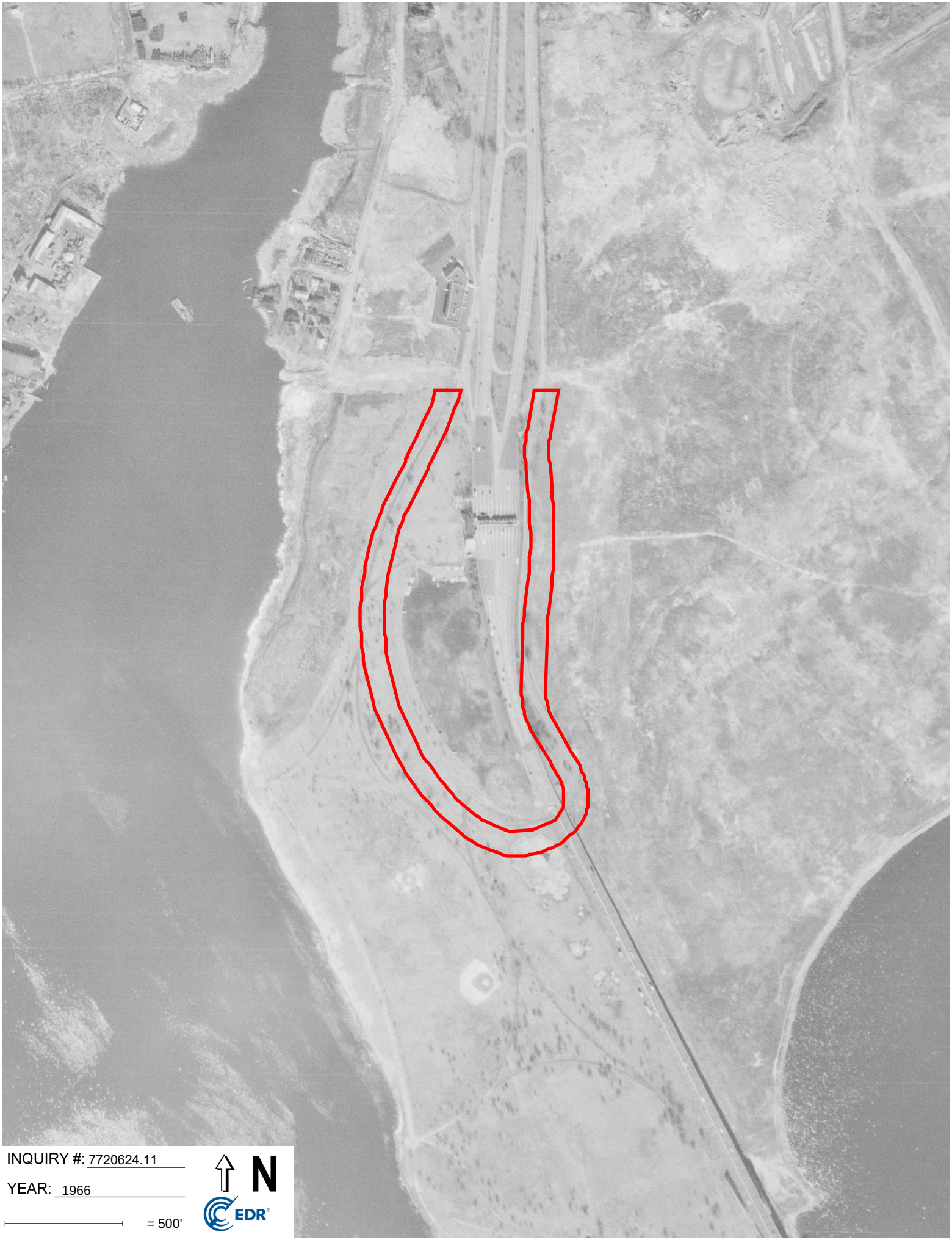
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EDR

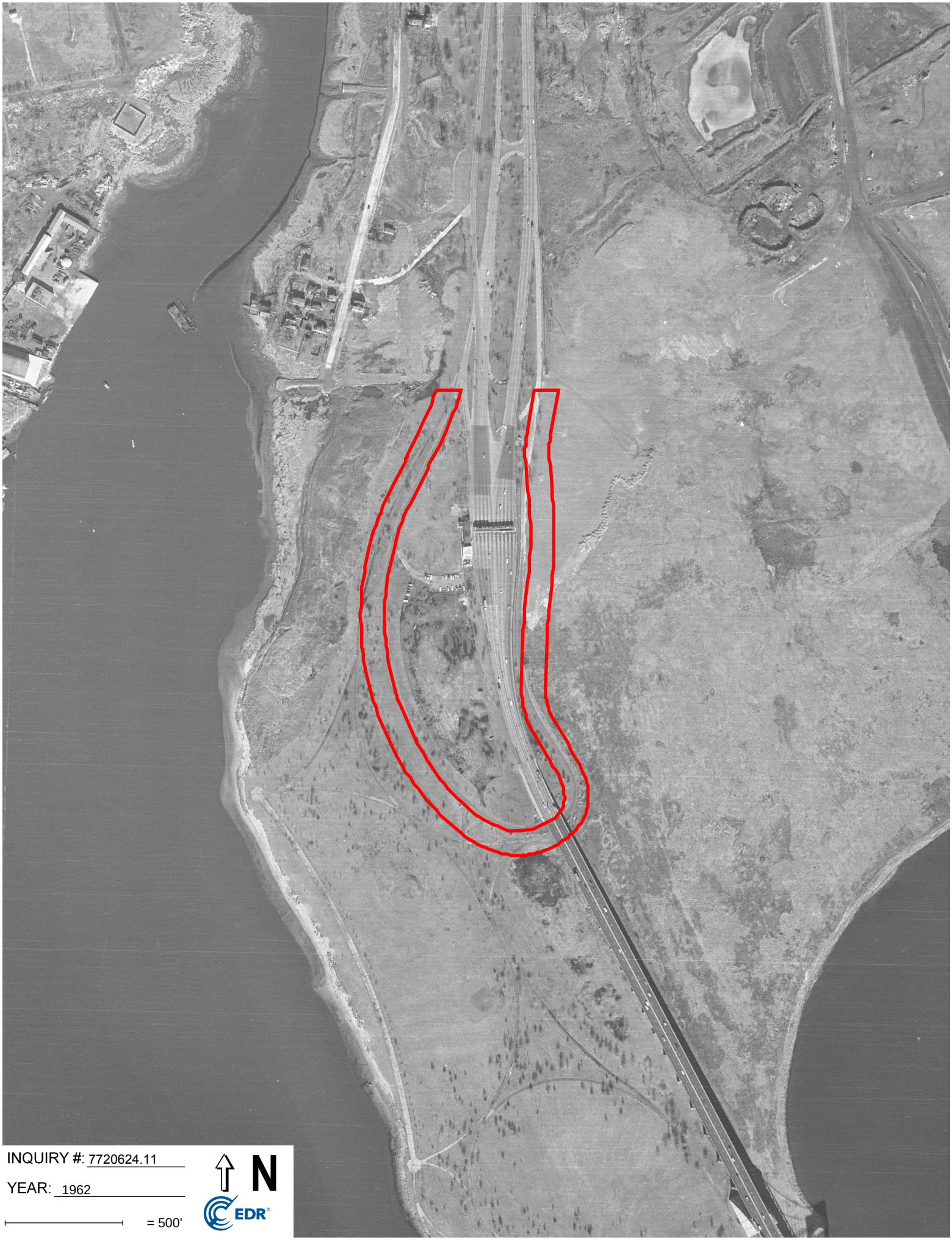

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YEAR: 1962

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EDR

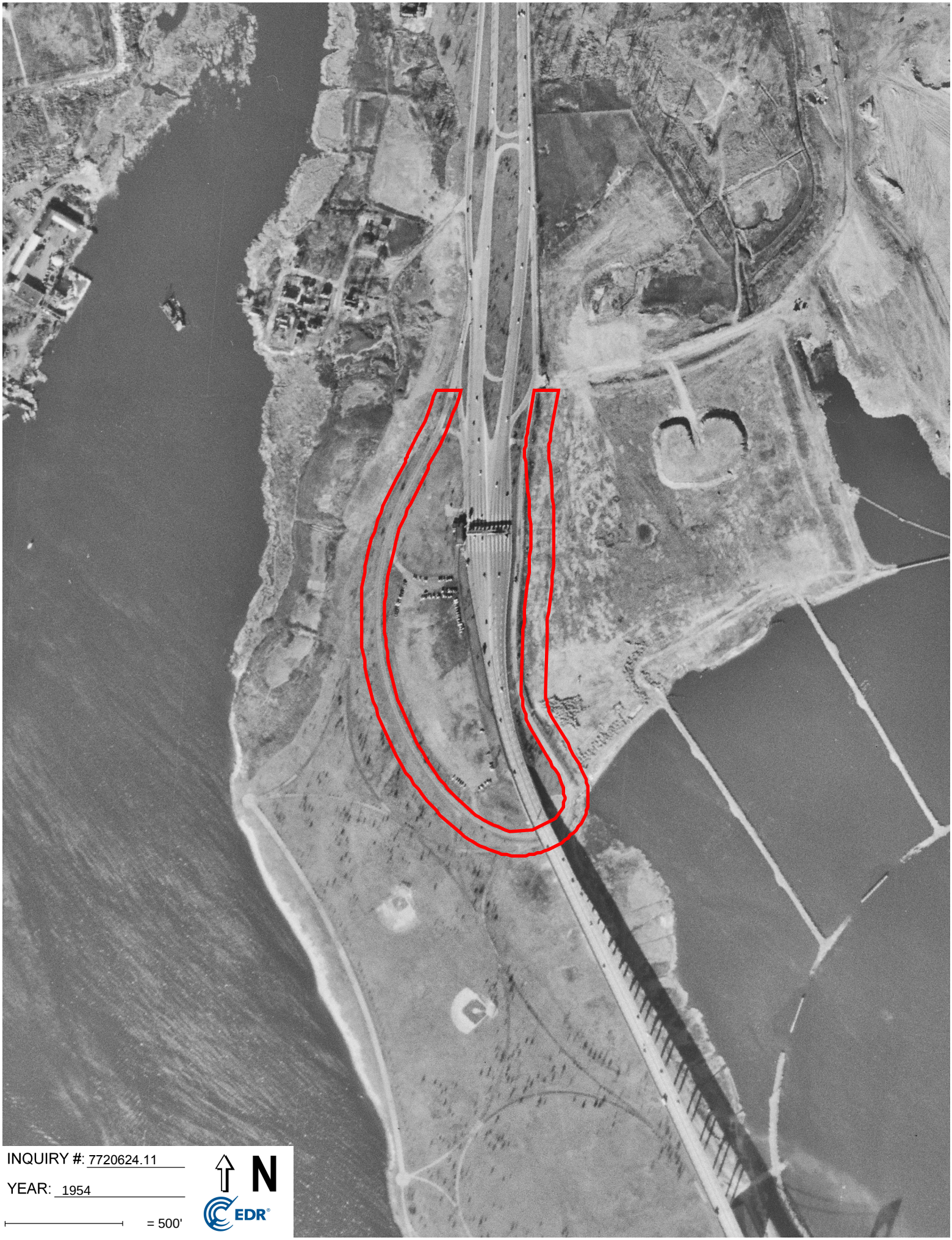
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YEAR: 1954
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EDR

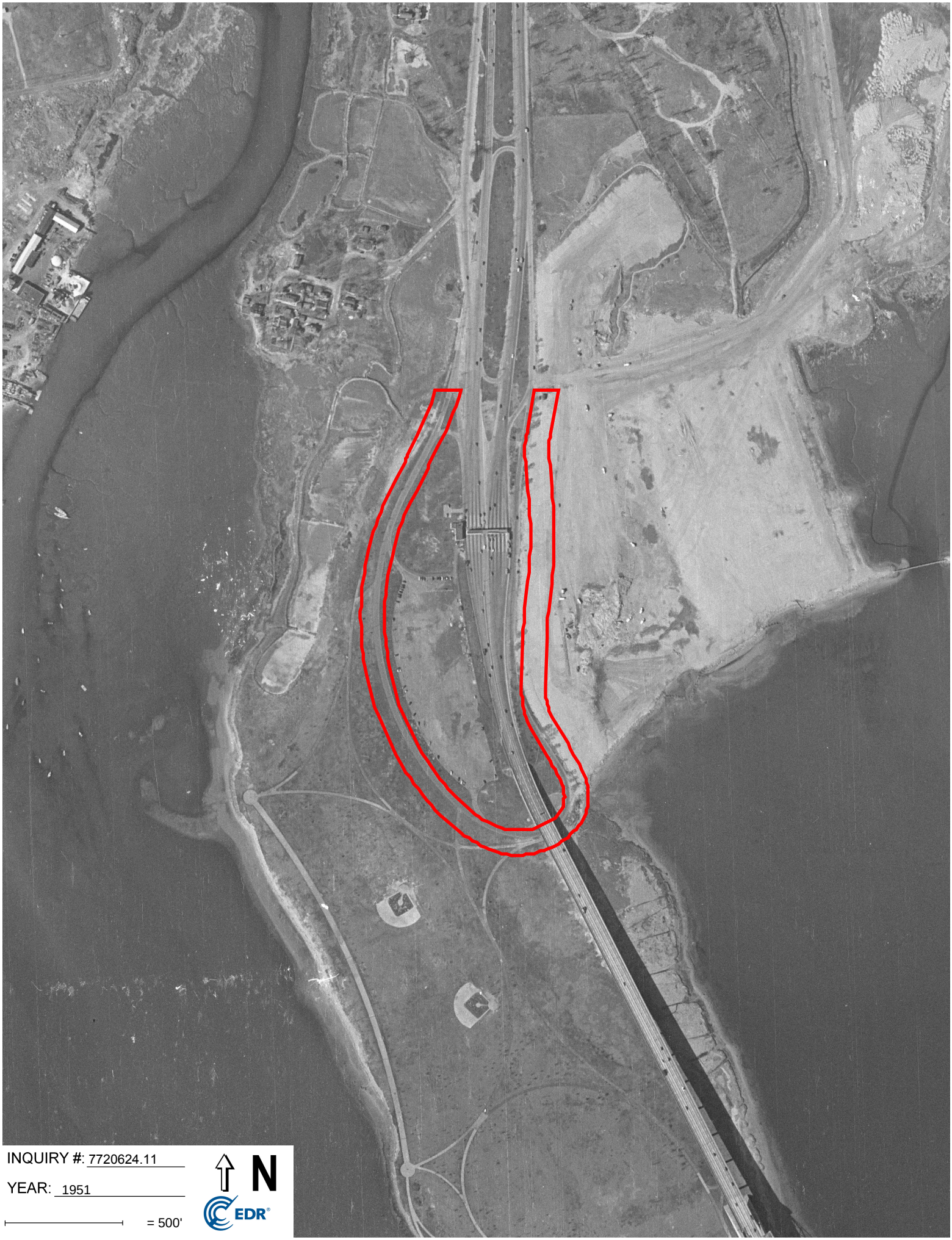
INQUIRY #: 7720624.11
YEAR: 1951
= 500'
N
EDR

INQUIRY #: 7720624.11

YEAR: 1924

= 500'

N

EDR

Appendix G Resumes of Environmental Professionals

BRIAN GOCHENAUR, QEP

ASSOCIATE PRINCIPAL

ENVIRONMENTAL SCIENTIST

Mr. Gochenaur is an environmental project manager with 20 years of experience in environmental due diligence, site investigation and remediation, fuel oil storage tank investigation and removal, soil vapor intrusion assessments, in-situ remedial technology, spill closure, vapor barrier and sub-slab depressurization system design and construction, emergency response, environmental and geotechnical site investigations, and health and safety monitoring. He has extensive experience with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup, Voluntary Cleanup and Spill Programs and New York City Department of Environmental Protection (NYCDEP) "E" Designated and New York City Voluntary Cleanup Program (BCP) sites. His areas of expertise include Phase I Environmental Site Assessments, Phase II Site Investigations, and environmental consulting and oversight on large scale construction projects.

SELECTED PROJECTS

- 440 Washington Street, E-Designated services, New York, NY
- 3514 Surf Avenue, Tall Residential and Retail Building, Brooklyn, NY
- ARO 242 West 53, Tall Residential Building, New York, NY
- NY Aquarium Shark Exhibit, Soil Characterization and Excavation Oversight, Coney Island Neighborhood, Brooklyn, NY
- 60 West Street, Site Investigation and Redevelopment, Brooklyn, NY
- 535 4th Avenue, BCP Auto Repair Cleanup and Redevelopment, Brooklyn, NY
- 1525 Bedford Avenue, BCP Gas Station Cleanup and Redevelopment, Brooklyn, NY
- 220 Eleventh Avenue, Residential Building, New York, NY
- 432 Rodney Street, Residential Building, Brooklyn, NY
- 563 Sackett Street, Brooklyn, NY
- 362 West 125th Street, Residential Building, New York, NY
- Bedford Armory Redevelopment, Brooklyn, NY
- 268 West Street, BCP Redevelopment of Former Commercial and Industrial Site, New York, NY
- 110 125th Street, Soil Excavation and Remediation, New York, NY
- Former Roseland Ballroom Redevelopment, Soil Characterization and Excavation Oversight, New York, NY
- 42 Crosby Street, "E" Designated Site Investigation and Remediation, New York, NY
- New York School Construction Authority, Various Locations, In-House Environmental Consulting, Five Boroughs of New York City
- EZ Serve Portfolio, GE Capital, Various Phase II Site Investigations, FL, GA, LA, and MS
- Beth Elohim Child Daycare Center, Lead Based Paint Abatement, Brooklyn, NY
- Price Battery, Environmental Protection Agency (EPA) Lead Fallout Superfund Site, Hamburg, PA

EDUCATION

B.S., Environmental Science
University of Florida

PROFESSIONAL REGISTRATION

Qualified Environmental Professional (QEP) certified by the Institute of Professional Environmental Practice

40-Hour OSHA (HAZWOPER)

- Clark Portfolio, GE Capital, Various Phase II Locations, MI, IL, ID, and OH
- Tops Plaza Portfolio, Prudential Real Estate Investors, Various Phase II Locations, NY
- Cingular Wireless Portfolio, Cingular Wireless, Various Locations Phase I and II Locations, WA
- Queens Center Mall Expansion, Remedial Oversight, Elmhurst, NY
- Soka Gakkai International-USA, Cultural Center, Brooklyn, NY
- 1752 Shore Parkway, Environmental Remediation, Brooklyn, NY
- Bedford Union Armory, NYS Brownfield Cleanup Program, Brooklyn, NY
- NYCEDC Manhattan Greenway – Harlem River, New York, NY
- 445 Gerard Avenue, Residential Building, Bronx, NY
- Towne Gardens North, Residential Building, Buffalo, NY

LAMEES ESMAIL, EIT

PROJECT ENGINEER

ENVIRONMENTAL ENGINEERING

Ms. Esmail is a civil and environmental engineer with four years of experience supporting environmental oversight and remediation projects in New York City. She has performed environmental field work including preparing daily inspection reports, photo documentation of work, and reviewing contractor submittals. She currently performs site research, manages field oversight, reviews/approves contractor submittals, prepares reports, and is involved with remedial design, implementation and project management.

Prior to joining Langan, Ms. Esmail gained three years of experience supporting environmental permitting and erosion and sedimentation control primarily for linear overhead transmission line projects. Types of permits included state land disturbance approvals and Army Corps of Engineers Section 10 Pre-Construction Notifications. Ms. Esmail also has experience aiding with the siting of new substation properties, using ArcGIS and AutoCAD to compile data for potential sites.

EDUCATION

B.S., Civil Engineering (Environmental Concentration)
George Washington University

PROFESSIONAL REGISTRATION

Engineer in Training (EIT) in NC

SELECTED PROJECTS

- Con Edison Partial Replacement of 345KV Feeders M51 & M52 Feasibility Study, New York, NY
- 220 Eleventh Avenue, Hudson Arts Building, New York, NY
- 50 Hudson Yards, Supertall Office Building, New York, NY
- 215 North 10th Street, Brooklyn, NY
- 320 West 135th Street, New York, NY
- 163 Varick Street, New York, NY
- 39 West 23rd Street, New York, NY
- 1 Huron Street, Brooklyn, NY
- Bedford Armory, Brooklyn, NY
- 1607 Surf Avenue, Brooklyn, NY
- 414 Gerard Avenue, Bronx, NY
- 445 Gerard Avenue, Bronx, NY
- 326-350 Rockaway Avenue, Brooklyn, NY
- 197-201 Canal Street, Staten Island, NY
- 475 Bay Street, Staten Island, NY
- Astoria Steel, Queens, NY
- 99 Hudson Boulevard, New York, NY
- 4650 Broadway, New York, NY
- 12-57 57th Street, Brooklyn, NY
- 805-825 Atlantic Avenue, Brooklyn, NY
- Various Phase I Environmental Site Assessments (ESAs) in NYC

SELECTED PUBLICATIONS, REPORTS, AND PRESENTATIONS

Esmail, L., “Transmission Line Erosion Control and Construction Specifications”, Duke Energy Progress Transmission Erosion and Sedimentation Control Seminar, Raleigh, NC, November 2016.

KAITLYN GIOIA

SENIOR STAFF SCIENTIST

ENVIRONMENTAL ENGINEERING

Ms. Gioia is an Environmental Scientist with the New York City team. Ms. Gioia graduated in 2016 from Adelphi University with a B.A. in Environmental Studies. Ms. Gioia's experiences include project management, leading field work, exposure to an assortment of environmental pollutants, remedial action procedures, & Phase I and Phase II Environmental Assessments. Ms. Gioia has performed Asbestos Hazard and Emergency Response Act (AHERA) inspections and evaluations in schools and State Pollutant Discharge Elimination System (SPDES) sampling for power plants and commercial facilities.

SELECTED PROJECTS

- 80-100 Flatbush Avenue, Brooklyn, NY
- 250 Water Street, New York, NY
- 35-01 & 35-09 Northern Boulevard, Long Island City, NY
- 23-15 44th Road, Long Island City, NY
- South Randalls Due Diligence, New York, NY
- 595-647 Smith Street, Brooklyn, NY
- Willets Point Redevelopment, Flushing, NY
- President Street Properties, Brooklyn, NY
- 475 Bay Street, Staten Island, NY
- Confidential Project, Queens, NY
- 137 Kings Highway, Brooklyn, NY
- 111 Willow Avenue, Bronx, NY
- 560 Degraw Street, Brooklyn, NY
- 122 Fifth Avenue, New York, NY
- Insurance Claim Oversight, White Plains, NY*
- Subrogation Potential Investigation, Lindenhurst, NY*
- Brookhaven National Lab, Brookhaven, NY*
- Far Rockaway Vault Sampling, Far Rockaway, NY*
- East Islip School District AHERA Inspection, East Islip, NY*
- UPRS SPDES Sampling, Uniondale, NY*
- 550 Stewart Avenue Phase I and II, Garden City, NY*
- Riverhead to Canal Cable Expansion, Riverhead, NY*
- Noise Dosimetry Study, Queens, NY*
- School District Lead in Water Sampling, Yonkers, Kings Park, and Baldwin, NY*
- Potable Water Sampling, New York, NY*
- DCF Remediation Oversight, Malverne, West Hempstead, and Port Washington, NY*
- AOP Pilot Testing, Garden City Park, Franklin Square, and Port Washington, NY*

EDUCATION

B.A., Environmental Studies
Adelphi University

PROFESSIONAL REGISTRATION

OSHA 40-Hour

OSHA10-Hour

NYS Department of Labor, Asbestos Inspector License

USEPA Lead Based Paint Inspector License

NYSDEC Class A/B Operator of Underground Storage Tank Systems

NYSDEC 4-Hour Erosion and Sediment Control Contractor Training 2021

**Projects represent experience with a previous firm*

SELECTED PUBLICATIONS, REPORTS, AND PRESENTATIONS

"Fecundity and Embryonic Development of Spiny Dogfish in the Northwest Atlantic Ocean" Transactions of the American Fisheries Society 2019.

Dutton J., Fisher NS., Gioia KA., Madigan DJ., "Tissue Distribution of Mercury in Female Spiny Dogfish (Squalus Acanthias)" Society of Environmental Toxicology and Chemistry South-Central Regional Meeting 2016, Fort Worth, TX.

Dutton J., Fisher NS., Gioia KA., Madigan DJ., "Maternal Transfer of Mercury in Spiny Dogfish" 12th International Congress on The Biology of Fish 2016, San Marcos, TX.

Dutton J., Fisher NS., Gioia KA., Madigan DJ., "Mercury Bioaccumulation and Maternal Transfer in Spiny Dogfish (Squalus Acanthias)" 33rd Annual Meeting of The American Elasmobranch Society/Joint Meeting of Ichthyologists and Herpetologists 2017, Austin, TX.

PHASE II ENVIRONMENTAL SITE INVESTIGATION REPORT

for

PROPOSED BALLY'S CASINO - RING ROAD at FERRY POINT PARK Bronx, New York 10465

Prepared For:

Bally's Corporation
100 Westminster Street
Providence, Rhode Island 02903

Prepared By:

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
368 Ninth Avenue, 8th Floor
New York, New York 10001

Brian Gochenaur, QEP
Associate Principal

April 22, 2025
Langan Project No. 170773001

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Appendix A Site Photographs
Appendix B Geophysical Survey Report
Appendix C Soil Boring Logs
Appendix D Well Construction and Groundwater Sampling Logs
Appendix E Laboratory Analytical Reports

EXECUTIVE SUMMARY

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) prepared this Phase II Environmental Site Investigation (ESI) report on behalf of Bally's Corporation (Bally's) for a section of the Hutchinson River Parkway, referred to as Ring Road, located within Ferry Point Park, Bronx, New York (the "site"). The Phase II ESI was conducted to investigate the recognized environmental conditions (REC) identified in Langan's Phase I Environmental Site Assessment (ESA), dated September 12, 2024.

Site Location and Description

The site is an approximately 9.61-acre, U-shaped section of Ferry Point Park, that primarily serves as a park thoroughfare and public recreation space and is identified on the New York City Bronx Borough Tax Map as part of Block 5622, Lot 1. The site is bound by Schley Avenue, the Hutchinson River Parkway, and service roads to the north; Bally's Golf Links at Ferry Point golf course to the east; Ferry Point Park and the Bronx-Whitestone Bridge to the south; and Ferry Point Park to the west. Between the western and eastern legs of the U-shape formed by the site lies public parking areas for Ferry Point Park and the Bronx-Whitestone Bridge Metropolitan Transit Authority (MTA) Building.

The site is improved with an uninterrupted, circular roadway, referred to as Ring Road. Ring Road is a one-lane, one-way, asphalt-paved roadway and is bordered on either side by concrete curbing, metal guardrails, and grass shoulders. The remainder of the site includes vegetated areas and footpaths associated with Ferry Point Park. The section of Ring Road comprising the site totals about 1 mile.

The site is at an elevation of approximately 16 feet above mean sea level (msl) and slopes gently downward toward the west-southwest. The regional topography slopes downward toward the west-southwest and Westchester Creek, which is located approximately 320 feet west of the site. The site is located within an urban area characterized by multiple-story commercial, residential, and industrial buildings as well as parking lots and vacant land.

Site History

A review of historical records indicate that the site and adjacent areas were undeveloped and predominantly marsh- and swampland from the 1890s to the 1930s, and the majority of the area was part of Westchester Creek and the Baxter Creek Inlet (now the East River) before infilling and development of Ferry Point Park in the 1940s. By 1947, the site and surrounding area had been infilled to create new land, and Ring Road had been constructed. General improvements to the site were completed by 2015, and the site remains relatively unchanged through present-day.

Proposed Development

Improvements to the site, including the widening of Ring Road, are contemplated by Bally's as part of the proposed development of the associated gaming facility. The proposed site improvements total about 4.1 acres of the 9.61-acre site. The improvements will include a a roadbed, a parking lane, and sidewalks which will provide passive and active space to users of Ferry Point Park. Additional site development outside the 4.1-acre area, such as a bike/pedestrian lane and park landscape improvements, may be included in later stages of the design. Excavation depths to facilitate the redevelopment of Ring Road are expected to extend from 1 to 5 feet below grade surface (bgs).

Field Investigation

The Phase II ESI was conducted in general accordance with the New York City Department of Environmental Protection (NYCDEP)-approved Phase II ESI Work Plan, dated October 1, 2024. The Phase II ESI was completed between February 25 and March 11, 2025, and included the completion of a geophysical survey, advancement of 42 soil borings, installation of 10 temporary groundwater monitoring wells, and collection and laboratory analysis of soil and groundwater samples.

Findings and Conclusions

The following is a summary of Phase II ESI findings and conclusions:

- Anomalies indicative of potential underground storage tanks (UST) were not identified during the geophysical survey.
- Non-native fill, generally consisting of brown to orangeish or grayish brown, fine-grained sand with varying amounts of fine sub-angular gravel, silt, clay, fibrous vegetation, coal, coal ash, glass, construction debris, metal, and wood, was identified throughout the site to depths ranging between 3 feet bgs to the borehole terminus at 8 feet bgs. Native soil was identified beneath the fill layer in 18 of the 42 soil borings and extended to the borehole terminus of 8 feet bgs. Native soil ranged from gray to dark gray clay with varying amounts of fine sand, fine subangular to subrounded gravel, and fibrous vegetation in the western and eastern parts of the site, and grayish brown to brown, fine-grained sand with varying amounts of clay, fine subangular to subrounded gravel, and fibrous vegetation in the southern part of the site.
- Volatile organic compounds (VOC), pesticides, herbicides, and polychlorinated biphenyls (PCB) were not identified in soil samples at concentrations exceeding the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Code, Rules and Regulations (NYCRR) Part 375 Restricted Use Restricted-Residential (RURR) Soil Cleanup Objectives (SCO). Perfluorooctanoic acid (PFOA) and

perfluorooctanesulfonic acid (PFOS) were not identified in soil samples above the NYSDEC Part 375 Remedial Programs Guidelines for Sampling and Analysis of PFAS RURR Guidance Values (date April 2023).

- SVOCs and metals were identified in non-native fill at concentrations exceeding RURR SCOs throughout the site. The highest concentrations of SVOCs were located at SB41 from the 0 to 2 feet bgs, and are likely related to former backfilling of Ferry Point Park and the eastern-adjoining Bally's Golf Links at Ferry Point golf course. These concentrations of SVOCs and metals are typically found in non-native fill throughout New York City and are not indicative of a release of hazardous materials.
- Groundwater was encountered in monitoring wells at depths ranging from about 3.5 to 6.7 feet bgs. Groundwater elevations and flow direction likely vary with tidal influence due to the site's proximity to the East River. Groundwater flow direction is generally expected to be to the west-southwest, towards Westchester Creek and the East River.
- SVOCs and dissolved metals (iron, magnesium, manganese, sodium, and thallium) were identified at concentrations exceeding the NYSDEC Division of Water Technical and Operation Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values (SGV) for Class GA (drinking water) in groundwater. Iron, magnesium, manganese, sodium, and thallium are naturally-occurring compounds common in brackish groundwater along waterfront sites in New York City. SVOCs identified in groundwater samples above the NYSDEC SGVs are likely due to entrained sediment in the sample from non-native fill.
- PFOA and PFOS were identified at concentrations exceeding the NYSDEC SGVs in groundwater; however, an on-site source was not identified. The concentrations of PFOA and PFOS are generally higher in groundwater samples collected along the eastern part of the site and are consistent with concentrations found in New York City.

Recommendations for site development can be found in the Remedial Action Plan which is being submitted under separate cover.

1.0 INTRODUCTION

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) prepared this Phase II ESI report on behalf of Bally's Corporation (Bally's) for a section of the Hutchinson River Parkway, referred to as Ring Road, located within Ferry Point Park, Bronx, New York (the "site"). The site is an approximately 9.61-acre, U-shaped section of Ferry Point Park, that primarily serves as a park thoroughfare and public recreation space and is identified on the New York City Bronx Borough Tax Map as part of Block 5622, Lot 1. The Phase II ESI was conducted to investigate the recognized environmental conditions (REC) identified in Langan's Phase I Environmental Site Assessment (ESA), dated September 12, 2024.

The Phase II ESI was conducted in general accordance with the New York City Department of Environmental Protection (NYCDEP)-approved Phase II ESI Work Plan, dated October 1, 2024. The Phase II ESI was completed between February 25 and March 11, 2025, and included the completion of a geophysical survey, advancement of 42 soil borings, installation of 10 temporary groundwater monitoring wells, and collection and laboratory analysis of soil and groundwater samples.

This report is organized as follows:

- Section 2.0: Describes the site background
- Section 3.0: Presents the Phase II ESI methodology
- Section 4.0: Presents the findings of the Phase II ESI
- Section 5.0: Presents conclusions based on the findings
- Section 6.0: Presents the report limitations

2.0 BACKGROUND

2.1 Site Location and Description

The site is an approximately 9.61acre, U-shaped section of Ferry Point Park, that primarily serves as a park thoroughfare and public recreation space and is identified on the New York City Bronx Borough Tax Map as part of Block 5622, Lot 1. The site is bound by Schley Avenue, the Hutchinson River Parkway, and service roads to the north; Bally's Golf Links at Ferry Point golf course to the east; Ferry Point Park and the Bronx-Whitestone Bridge to the south; and Ferry Point Park to the west. Between the western and eastern legs of the U-shape formed by the site lies public parking areas for Ferry Point Park and the Bronx-Whitestone Bridge Metropolitan Transit Authority (MTA) Building.

The site is improved with an uninterrupted, circular roadway, referred to as Ring Road. Ring Road is a one-lane, one-way, asphalt-paved roadway and is bordered on either side by concrete curbing, metal guardrails, and grass shoulders. The remainder of the site includes vegetated areas and footpaths associated with Ferry Point Park. The section of Ring Road comprising the site totals about 1 mile.

The site is at an elevation of approximately 16 feet above mean sea level (msl) and slopes gently downward toward the west-southwest. The regional topography slopes downward toward the west-southwest and Westchester Creek, which is located approximately 320 feet west of the site. The site is located within an urban area characterized by multiple-story commercial, residential, and industrial buildings as well as parking lots and vacant land. A site location map is provided as Figure 1 and a site plan is included as Figure 2.

2.2 Site History

A review of historical records indicate that the site and adjacent areas were undeveloped and predominantly marsh- and swampland from the 1890s to the 1930s, and the majority of the area was part of Westchester Creek and the Baxter Creek Inlet (now the East River) before infilling and development of Ferry Point Park in the 1940s. By 1947, the site and surrounding area had been infilled to create new land, and Ring Road had been constructed. General improvements to the site were completed by 2015, and the site remains relatively unchanged through present-day.

2.3 Proposed Development

Improvements to the site, including the widening of Ring Road, are contemplated by Bally's as part of the proposed development of the associated gaming facility. The proposed site improvements total about 4.1 acres of the 9.61-acre site. The improvements will include a roadbed, a parking lane, and sidewalks which will provide passive and active space to users of Ferry Point Park. Additional site development outside the 4.1-acre area, such as a bike/pedestrian

lane and park landscape improvements, may be included in later stages of the design. Excavation depths to facilitate the redevelopment of Ring Road are expected to extend from 1 to 5 feet below grade surface (bgs).

2.4 Recognized Environmental Conditions

Langan's Phase I ESA identified the following RECs:

REC 1 – Current and Historical Use of the Adjoining and Surrounding Properties

Historical adjoining and surrounding property use includes a municipal solid waste landfill (1950 - 1960s), a United Parcel Service (UPS) facility with petroleum and chemical bulk storage (1985 - present), and an MTA bridge support facility with petroleum bulk storage (1951 - present). Documented and undocumented spills or releases of petroleum products or hazardous substances associated with these properties may have adversely affected groundwater and/or soil vapor on the site.

REC 2 – Non-Native Fill

Non-native fill is expected to underly the site above native soil. Non-native fill in New York City may contain contaminants, particularly metals and semivolatile organic compounds (SVOC), at concentrations that exceed applicable state and/or federal standards. Non-native fill does not trigger a regulatory reporting requirement, but may require implementation of special soil handling, management, and off-site disposal procedures if disturbed during development of the site.

2.5 Soil and Geology

General geologic and geotechnical information about the site was obtained by reviewing available United States Geological Survey (USGS) Geologic Maps and historical topographic maps. New York City soil stratigraphy is generally characterized by layers of fill and native soil overburden above metamorphic bedrock. The site predominantly consisted of marsh- and swampland from the 1890s to the 1930s, and the majority of the site was part of Westchester Creek and the Baxter Creek Inlet (now the East River) before infilling and development of Ferry Point Park in the 1940s. According to the U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) Soil Survey Geographic (SSURGO) data for Summit County, soils at the site consist primarily of urban land with tidal marsh stratum, and lesser amounts of Greenbelt loam, Greatkills gravelly sandy loam, and North Meadow sandy loam. Urban Land refers to soils that have been altered by human activities thus making them unidentifiable. Typically, these soils have been mixed with other materials, such as brick, concrete, and demolition debris of unknown origin (non-native fill).

According to the USGS Bedrock and engineering geologic maps of New York County and parts of Kings and Queens Counties, New York, and parts of Bergen and Hudson Counties, New Jersey (Baskerville, C.A., 1994), the site is in the Pelham Bay Member, which consists of sillimanite-grade gneisses. According to previous geotechnical investigations in the surrounding area, subsurface conditions generally consist of a layer of miscellaneous fill, overlying natural, soft, silty, clayey, peat and sands, which overly glacial till. Bedrock is expected to be about 80 to 120 feet below current grade. Geological surface features (e.g., rock outcroppings) were not observed on the site.

2.6 Hydrogeology

Groundwater flow is typically topographically influenced, as shallow groundwater tends to originate in areas of topographic highs and flows toward areas of topographic lows, such as rivers, stream valleys, ponds, and wetlands. A broader, interconnected hydrogeological network often governs groundwater flow at depth or in the bedrock aquifer. Groundwater depth and flow direction are also subject to hydrogeological and anthropogenic variables such as precipitation, evaporation, extent of vegetation cover, and coverage by impervious surfaces. Other factors influencing groundwater include depth to bedrock, the presence of non-native fill, and variability in local geology and groundwater sources or sinks. Based on a review of USGS topographic maps and previous reports for the area, groundwater is tidally influenced and is estimated between 2 and 20 feet bgs.

Surface water bodies are not present within the boundary of the site. The nearest surface water bodies are Westchester Creek and the East River. Groundwater flow can be influenced by several factors such as surface water bodies, wetlands, hydrogeologic and anthropogenic variables. However, based on topographic gradient and proximity to Westchester Creek and the East River, it is expected that groundwater generally flows to the west-southwest.

Groundwater in the Bronx is not used as a potable (drinking) water source. The potable water supply is provided to the site by the City of New York and is derived from surface impoundments in the Croton, Catskill, and Delaware watersheds.

The current Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM), dated December 5, 2007, include advisory flood zone boundaries and advisory base flood elevations. Preliminary FIRM Community Panel Numbers 3604970104F and 3604970112F indicate that the site falls within Zone X and Zone AE. Zone X is considered to be an area of 0.2% annual chance floodplain; an area of 1% (100-year-flood) annual flood chance with average depths of less than one foot with drainage areas less than one square mile; and/or an area protected by levees from 1% annual chance flood. Zone AE is considered a Special Flood Hazard Area, which is determined to be within the 1% annual chance floodplain. The corresponding base flood elevations shown on the map for areas of the site within Zone AE range from elevation (el) 13 to 14 in reference to the National Geodetic Vertical Datum of 1929.

3.0 FIELD INVESTIGATION

The Phase II ESI field work was completed between February 25 and March 11, 2025 and included completion of a geophysical survey, advancement of 42 environmental soil borings, installation of 10 temporary groundwater monitoring wells, and collection and laboratory analysis of 84 soil and 10 groundwater samples. Additional samples were also collected and analyzed for quality assurance/quality control (QA/QC) purposes. A sample collection summary is provided in Table 1 and a site plan is shown on Figure 2. Photographs of the field investigation are provided in Appendix A. The investigation was completed in general accordance with the NYCDEP-approved Phase II ESI Work Plan.

3.1 Utility Mark-Out and Geophysical Survey

Prior to beginning the field investigation, the New York One Call Center was contacted for Code 753 utility mark-outs. A geophysical investigation was also implemented by NOVA Geophysical Services (NOVA) of Douglaston, New York on February 25, 2025. The survey used ground-penetrating radar (GPR) and electromagnetic detection equipment to identify potential underground storage tanks (UST) and locate buried utilities and substructures in the vicinity of each boring location. Borings were relocated as necessary to avoid subsurface utilities and other subsurface impediments. The geophysical survey report is provided in Appendix B.

3.2 Soil Investigation

A total of 42 soil borings (SB01 through SB42) were advanced by Lakewood Environmental Services Corp. (Lakewood) of Smithtown, New York. Boring locations were selected to provide sufficient site coverage and to evaluate the potential impacts associated with the findings of the Phase I ESA. Langan field personnel were on site to document subsurface field observations and collect soil samples. Soil borings were advanced using a PowerProbe 9100P track-mounted drill rig and hand tools to depths ranging from 8 to 15 feet bgs.

For ground protection in parkland, Lakewood placed plywood on the ground surface to access any boring locations on the grass. Additionally, borings were off-set as necessary to avoid the critical root zone of trees and ensure roots were undamaged. Borings were not advanced within the dripline of parkland trees.

Soil samples were collected continuously from surface grade to the final depth of each boring into 4-foot-long Macro-Core samplers equipped with dedicated acetate liners. The geophysical survey identified water and electric lines in the vicinity of soil borings SB05, SB26, and SB27; therefore, soil samples from the three borings were precleared to 5 feet bgs using a hand auger prior to advancement to final depth. Recovered soil from the hand auger was placed on polyethylene sheeting in 1-foot intervals for characterization and sampling. Langan visually

classified soil samples for soil type, grain size, texture, and moisture content. Each sample was screened for visual, olfactory, and instrumental evidence of a chemical or petroleum release. Instrumental screening for the presence of organic vapors was performed using a handheld photoionization detector (PID) equipped with a 10.6 electron volt (eV) lamp. Soil boring logs documenting these observations are included in Appendix C. Following sample collection, all borings were backfilled with non-impacted soil cuttings to surface grade, and patched to restore the location to its original condition.

Soil Sample Collection and Analysis

A total of 84 soil samples (plus five duplicate and five matrix spike/matrix spike duplicate [MS/MSD] QA/QC samples) were collected for laboratory analysis. In addition, five field blanks, five per- and polyfluoroalkyl Substances (PFAS) field blanks, and five trip blanks were collected and/or analyzed for QA/QC purposes. Two soil samples were collected from each soil boring: a surface soil sample (from the 0-2 foot bgs interval), and a subsurface soil sample (from the two-foot interval beneath the proposed maximum excavation depth of 5 feet bgs). Grab samples submitted for volatile organic compound (VOC) analysis were collected directly from the acetate liners into laboratory-supplied Terra Core soil samplers. The remaining sample volume was homogenized and placed into laboratory-supplied containers for additional analyses. The sample containers were labeled, placed in a laboratory-supplied cooler, and packed on ice (to maintain a temperature of 4 ± 2°C). The samples were relinquished, under standard chain-of-custody protocol, to a courier for delivery to York Analytical Laboratories (York), a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory in Richmond Hill, New York.

Soil samples collected were analyzed for the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Code, Rules and Regulations (NYCRR) Part 375-list Target Compound List (TCL) VOCs by United State Environmental Protection Agency (USEPA) method 8260, Part 375/TCL SVOCs (including 1,4-dioxane) by USEPA method 8270, pesticides and herbicides by USEPA method 8081, polychlorinated biphenyls (PCB) by USEPA method 8082, and Target Analyte List (TAL) metals (including hexavalent and trivalent chromium) and total cyanide by USEPA methods 6010, 7471, 7196, and 9010. One soil sample from each temporary monitoring well location was also analyzed for NYSDEC-List PFAS by USEPA method 1633.

The approximate soil boring locations are shown on Figures 3A to 3D and a sample collection summary is provided as Table 1.

3.3 Groundwater Investigation

Ten soil borings (SB01, SB07, SB10, SB15, SB20, SB27, SB31, SB34, SB38, and SB42) were converted into temporary groundwater monitoring wells constructed of 1-inch-diameter threaded polyvinyl chloride (PVC) casing and 10 to 15 feet of 0.02-inch slotted well screen set to final depths of either 12 or 15 feet bgs. The monitoring wells were constructed so that the well screen straddled the observed groundwater table between 3.5 and 6.7 feet bgs. Temporary monitoring well construction logs are included in Appendix D.

Groundwater Sample Collection and Analysis

Groundwater samples were collected following well installation between February 27 and March 11, 2025. Samples were collected in accordance with the protocols described in the USEPA's low-flow groundwater sampling procedure ("USEPA Low Stress Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells", dated July 30, 1996 and revised September 19, 2017) to allow for collection of a representative sample. Monitoring wells were gauged for static water levels and purged, and physical and chemical parameters (e.g., pH, conductivity, turbidity, dissolved oxygen, temperature, and oxidation-reduction potential) were generally collected until purged groundwater was no longer turbid. If poor recharge was observed during purging, a groundwater sample was collected once the water level returned an adequate well volume for sample collection. Groundwater sampling logs are included in Appendix D.

Ten groundwater samples (plus to one duplicate and one MS/MSD QA/QC sample), were collected for laboratory analysis. In addition, one field blank, one PFAS field blank, and six trip blanks were collected for QA/QC purposes. Sampled were collected into laboratory-supplied glassware, packed with ice to maintain a temperature of 4 ± 2°C, and transported via courier service to York under chain-of-custody protocol.

Groundwater samples were analyzed for Part 375/TCL VOCs by USEPA method 8260, TCL SVOCs by USEPA method 8270, pesticides and herbicides by USEPA method 8081, PCBs by USEPA method 8082, total and dissolved (field filtered) metals by USEPA methods 6010, 6020, and 7471, hexavalent and trivalent chromium by USEPA method 7196, total cyanide by method SM 4500, 1,4-dioxane by USEPA method 8270 SIM, and NYSDEC-List PFAS by USEPA Method 1633.

Samples collected for dissolved metals analysis were filtered in the field using a dedicated filter. Upon completion of groundwater sampling at each well location, purged groundwater was returned to the temporary monitoring well in accordance with the protocol approved by NYCDEP via correspondence on February 19, 2025.

4.0 OBSERVATIONS AND RESULTS

4.1 Geophysical Survey

Prior to intrusive sampling, NOVA conducted a geophysical survey on February 25, 2025. NOVA used GPR and electromagnetic detection equipment to identify potential USTs and locate buried utilities and anomalies across accessible regions of the site. Anomalies resembling potential subsurface utilities (such as electric, water, telecommunications, and gas) were identified throughout the site. Anomalies indicative of potential USTs were not identified during the geophysical survey. Boring locations were cleared of subsurface structures or utilities and were relocated away from anomalies resembling subgrade utilities, as needed. The geophysical survey identified water and electric lines in the vicinity of soil borings SB05, SB26, and SB27; therefore, the locations were precleared with a hand auger prior to advancement with a drill rig. A copy of the geophysical survey report is included as Appendix B.

4.2 Subsurface Observations

Non-native fill was encountered in all borings throughout the site. The non-native fill material generally consists of brown to orangeish or grayish brown, fine-grained sand with varying amounts of fine sub-angular gravel, silt, clay, fibrous vegetation, coal, coal ash, glass, construction debris, metal, and wood to depths ranging between 3 feet bgs to the borehole terminus at 8 feet bgs. Native soil was identified beneath the fill layer in 18 of the 42 soil borings. Native soil in the western and eastern parts of the site generally consists of gray to dark gray clay with varying amounts of fine sand, fine subangular to subrounded gravel, and fibrous vegetation to the borehole terminus. Native soil in the southern part of the site cosists of grayish brown to brown, fine-grained sand with varying amounts of clay, fine subangular to subrounded gravel, and fibrous vegetation to the borehole terminus. Visual, olfactory, and instrumental evidence of petroleum and chemical impacts were not apparent in any of the borings.

Groundwater was encountered at depths ranging from about 3.5 to 6.7 feet bgs. No evidence of petroleum or chemical impacts (e.g., odor, staining, or PID readings above background) were apparent in purged groundwater. Groundwater elevations likely vary with tidal influence due to the site's proximity to the East River.

4.3 Soil Sample Results

Soil sample analytical results were compared to the NYSDEC Title 6 NYCRR Part 375 Restricted Use Restricted-Residential (RURR) Soil Cleanup Objectives (SCO). Soil sample analytical results are summarized in Figures 3A to 3D, and presented in Table 2. Laboratory analytical reports are included in Appendix E.

Ranges of compounds detected at concentrations above the RURR SCOs are provided in the table below. VOCs, pesticides, herbicides, and PCBs were not detected at concentrations above RURR SCOs. Perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) were not detected above the NYSDEC Part 375 Remedial Programs Guidelines for Sampling and Analysis of PFAS RURR Guidance Values (date April 2023).

Analyte	RURR SCOs	Minimum Detected Concentration above SCOs		Maximum Detected Concentration above SCOs		Number of Sample Exceedances
SVOCs						
Benzo(a)anthracene	1	1.06	SB04_0-2	14.4	SB41_0-2	6
Benzo(a)pyrene	1	1.05	SB04_0-2	11.4	SB41_0-2	7
Benzo(b)fluoranthene	1	1.01	SB04_0-2	9.64	SB41_0-2	6
Benzo(k)fluoranthene	3.9	9.74	SB41_0-2	9.74	SB41_0-2	2
Chrysene	3.9	5.14	SB05_0-2	12.7	SB41_0-2	4
Dibenz(a,h)anthracene	0.33	0.354	SB42_5-7	1.62	SB41_0-2	5
Indeno(1,2,3-cd)pyrene	0.5	0.524	SB01_0-2	7.2	SB41_0-2	8
Metals						
Arsenic	16	16.6	SB42_5-7	21.9	SODUP02_022825	3
Barium	400	810	SB27_5-7	810	SB27_5-7	1
Lead	400	421	SB05_0-2	1,130	SB27_5-7	2
Mercury	0.81	1.32	SB05_5-7	3.29	SODUP02_022825	4

Notes:

1. Concentrations are shown in milligram per kilogram (mg/kg).
2. Soil sample SODUP02_022825 is the duplicate of parent sample SB10_5-7.

4.4 Groundwater Sample Results

Groundwater results were compared to the NYSDEC Division of Water Technical and Operation Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values (SGV) for Class GA (drinking water). Analytical results from groundwater sampling are summarized in Figure 4, and presented in Table 3. Laboratory analytical reports are included in Appendix E.

Ranges of compounds detected at concentrations above the NYSDEC SGVs are described in the table below. VOCs, pesticides, herbicides, and PCBs were not detected at concentrations above the NYSDEC SGVs.

Analyte	NYSDEC SGVs	Minimum Detected Concentration above SCOs		Maximum Detected Concentration above SCOs		Number of Sample Exceedances
SVOCs						
1,4-Dioxane (P-Dioxane)	0.35	1.06	TMW38_031025	5.58	GWDUP01_031025	4
Benzo(a)anthracene	0.002	0.0667	TMW42_031125	0.106	TMW01_022725	2
Chrysene	0.002	0.0625	TMW38_031025	0.106	TMW01_022725	3
Metals - Dissolved						
Iron	300	385	GWDUP01_031025	51,200	TMW10_022825	8
Magnesium	35,000	44,700	TMW38_031025	141,000	TMW01_022725	6
Manganese	300	433	TMW31_030725	8,140	TMW01_022725	8
Sodium	20,000	37,100	TMW42_031125	1,380,000	TMW10_022825	11
Thallium	0.5	1.29	TMW34_031025	1.29	TMW34_031025	1
Metals - Total						
Iron	300	535	TMW15_030325	47,500	TMW10_022825	10
Lead	25	108	TMW42_031125	108	TMW42_031125	1
Magnesium	35,000	45,200	TMW38_031025	155,000	TMW01_022725	5
Manganese	300	448	TMW31_030725	8,640	TMW01_022725	7
Mercury	0.7	2.3	TMW42_031125	2.3	TMW42_031125	1
Sodium	20,000	36,700	TMW42_031125	1,390,000	TMW10_022825	10
PFAS						
PFOS	0.0027	0.00372	TMW15_030325	0.0252	TMW31_030725	6
PFOA	0.0067	0.0213	TMW15_030325	0.141	TMW38_031025	11

Notes:

1. Concentrations are shown in microgram per liter (µg/L).
2. Groundwater sample GWDUP01_031025 is the duplicate of parent sample TMW34_031025.

5.0 FINDINGS AND CONCLUSIONS

The following is a summary of Phase II ESI findings and conclusions:

- Anomalies indicative of potential USTs were not identified during the geophysical survey.
- Non-native fill, generally consisting of brown to orangeish or grayish brown, fine-grained sand with varying amounts of fine sub-angular gravel, silt, clay, fibrous vegetation, coal, coal ash, glass, construction debris, metal, and wood, was identified throughout the site to depths ranging between 3 feet bgs to the borehole terminus at 8 feet bgs. Native soil was identified beneath the fill layer in 18 of the 42 soil borings and extended to the borehole terminus of 8 feet bgs. Native soil ranged from gray to dark gray clay with varying amounts of fine sand, fine subangular to subrounded gravel, and fibrous vegetation in the western and eastern parts of the site, and grayish brown to brown, fine-grained sand with varying amounts of clay, fine subangular to subrounded gravel, and fibrous vegetation in the southern part of the site.
- VOCs, pesticides, herbicides, and PCBs were not identified in soil samples at concentrations exceeding the RURR SCOs. PFOA and PFOS were not identified in soil samples above the RURR Guidance Values.
- SVOCs and metals were identified in non-native fill at concentrations exceeding RURR SCOs throughout the site. The highest concentrations of SVOCs were located at SB41 from the 0 to 2 feet bgs, and are likely related to former backfilling of Ferry Point Park and the eastern-adjoining Bally's Golf Links at Ferry Point golf course. These concentrations of SVOCs and metals are typically found in non-native fill throughout New York City and are not indicative of a release of hazardous materials.
- Groundwater was encountered in monitoring wells at depths ranging from about 3.5 to 6.7 feet bgs. Groundwater elevations and flow direction likely vary with tidal influence due to the site's proximity to the East River. Groundwater flow direction is generally expected to be to the west-southwest, towards Westchester Creek and the East River.
- SVOCs and dissolved metals (iron, magnesium, manganese, sodium, and thallium) were identified at concentrations exceeding the NYSDEC SGVs in groundwater. Iron, magnesium, manganese, sodium, and thallium are naturally-occurring compounds common in brackish groundwater along waterfront sites in New York City. SVOCs identified in groundwater samples above the NYSDEC SGVs are likely due to entrained sediment in the sample from non-native fill.
- PFOA and PFOS were identified at concentrations exceeding the NYSDEC SGVs in groundwater; however, an on-site source was not identified. The concentrations of PFOA

and PFOS are generally higher in groundwater samples collected along the eastern part of the site and are consistent with concentrations found in New York City..

Recommendations for site development can be found in the Remedial Action Plan which is being submitted under separate cover.

6.0 LIMITATIONS

This report was prepared on behalf of Bally's Corporation expressly for a section of the Hutchinson River Parkway, referred to as Ring Road, located within Ferry Point Park, Bronx, New York, and for the objectives defined herein. Langan cannot assume responsibility for the use of this report for any property other than the specific site addressed in this report, or by any third party without specific written authorization from Langan.

The findings, conclusions, and opinions provided in this report are based on subsurface conditions ascertained from the analysis of a limited number of samples. Actual conditions encountered may differ substantially from those presented herein and should be brought to our attention whereby we may determine how such changes may affect our conclusions, opinions, and recommendations.

Tables

Table 1
Sample Summary
Phase II Environmental Investigation Report

Proposed Bally's Casino - Ring Road at Ferry Point Park
Bronx, New York
Langan Project No. 170773001

No.	Sample Name	Type	Boring	Depth	Time	Date	Rationale	Analysis
SOIL								
1	SB01_0-2	Grab	SB01 *	0-2	9:07	2/27/2025	Investigate RECs 1 & 2	Part 375-list VOCs, SVOCs, PCBs, Pesticides/Herbicides, and TAL Metals (including hexavalent and trivalent chromium), total cyanide, and 1,4-dioxane * Samples analyzed for PFAS
2	SB01_5-7			5-7	9:20	2/27/2025		
3	SB02_0-2		SB02	0-2	12:07	2/27/2025	Investigate RECs 1 & 2	
4	SB02_5-7			5-7	12:18	2/27/2025		
5	SB03_0-2		SB03	0-2	14:58	2/27/2025	Investigate RECs 1 & 2	
6	SB03_5-7			5-7	15:06	2/27/2025		
7	SB04_0-2		SB04	0-2	15:40	2/27/2025	Investigate RECs 1 & 2	
8	SB04_5-7			5-7	15:57	2/27/2025		
9	SB05_0-2		SB05	0-2	8:54	3/3/2025	Investigate RECs 1 & 2	
10	SB05_5-7			5-7	8:59	3/3/2025		
11	SB06_0-2		SB06	0-2	14:56	2/28/2025	Investigate RECs 1 & 2	
12	SB06_5-7			5-7	15:05	2/28/2025		
13	SB07_0-2		SB07 *	0-2	13:13	2/28/2025	Investigate RECs 1 & 2	
14	SB07_5-7			5-7	13:20	2/28/2025		
15	SB08_0-2		SB08	0-2	12:49	2/28/2025	Investigate RECs 1 & 2	
16	SB08_5-7			5-7	12:56	2/28/2025		
17	SB09_0-2		SB09	0-2	12:05	2/28/2025	Investigate RECs 1 & 2	
18	SB09_5-7			5-7	12:14	2/28/2025		
19	SB10_0-2		SB10	0-2	8:45	2/28/2025	Investigate RECs 1 & 2	
20	SB10_5-7		*	5-7	8:56	2/28/2025		
21	SB11_0-2		SB11	0-2	15:26	3/3/2025	Investigate RECs 1 & 2	
22	SB11_5-7			5-7	15:33	3/3/2025		
23	SB12_0-2		SB12	0-2	14:51	3/3/2025	Investigate RECs 1 & 2	
24	SB12_5-7			5-7	14:57	3/3/2025		
25	SB13_0-2		SB13	0-2	13:49	3/3/2025	Investigate RECs 1 & 2	
26	SB13_5-7			5-7	14:02	3/3/2025		
27	SB14_0-2		SB14	0-2	14:09	3/3/2025	Investigate RECs 1 & 2	
28	SB14_5-7			5-7	14:16	3/3/2025		
29	SB15_0-2		SB15 *	0-2	11:17	3/3/2025	Investigate RECs 1 & 2	
30	SB15_5-7			5-7	11:51	3/3/2025		
31	SB16_0-2		SB16	0-2	13:14	3/4/2025	Investigate RECs 1 & 2	
32	SB16_5-7			5-7	13:19	3/4/2025		
33	SB17_0-2		SB17	0-2	12:10	3/4/2025	Investigate RECs 1 & 2	
34	SB17_5-7			5-7	12:20	3/4/2025		
35	SB18_0-2		SB18	0-2	10:06	3/4/2025	Investigate RECs 1 & 2	
36	SB18_5-7			5-7	10:19	3/4/2025		
37	SB19_0-2		SB19	0-2	9:12	3/4/2025	Investigate RECs 1 & 2	
38	SB19_5-7			5-7	9:16	3/4/2025		
39	SB20_0-2		SB20	0-2	15:26	3/3/2025	Investigate RECs 1 & 2	
40	SB20_5-7		*	5-7	15:33	3/3/2025		
41	SB21_0-2		SB21	0-2	14:29	3/4/2025	Investigate RECs 1 & 2	
42	SB21_5-7			5-7	14:40	3/4/2025		
43	SB22_0-2		SB22	0-2	15:05	3/4/2025	Investigate RECs 1 & 2	
44	SB22_5-7			5-7	15:15	3/4/2025		
45	SB23_0-2		SB23	0-2	15:40	3/4/2025	Investigate RECs 1 & 2	
46	SB23_5-7			5-7	15:45	3/4/2025		
47	SB24_0-2		SB24	0-2	8:45	3/5/2025	Investigate RECs 1 & 2	
48	SB24_5-7			5-7	8:49	3/5/2025		
49	SB25_0-2		SB25	0-2	10:21	3/5/2025	Investigate RECs 1 & 2	
50	SB25_5-7			5-7	10:27	3/5/2025		
51	SB26_0-2		SB26	0-2	12:05	3/5/2025	Investigate RECs 1 & 2	
52	SB26_5-7			5-7	12:22	3/5/2025		
53	SB27_0-2		SB27 *	0-2	14:41	3/5/2025	Investigate RECs 1 & 2	
54	SB27_5-7			5-7	14:50	3/5/2025		

Table 1
Sample Summary
Phase II Environmental Investigation Report

Proposed Bally's Casino - Ring Road at Ferry Point Park
Bronx, New York
Langan Project No. 170773001

No.	Sample Name	Type	Boring	Depth	Time	Date	Rationale	Analysis
SOIL								
55	SB28_0-2	Grab	SB28	0-2	15:28	3/5/2025	Investigate RECs 1 & 2	Part 375-list VOCs, SVOCs, PCBs, Pesticides/Herbicides, and TAL Metals (including hexavalent and trivalent chromium), total cyanide, and 1,4-dioxane * Samples analyzed for PFAS
56	SB28_5-7			5-7	15:40	3/5/2025		
57	SB29_0-2		SB29	0-2	10:14	3/7/2025	Investigate RECs 1 & 2	
58	SB29_5-7			5-7	10:20	3/7/2025		
59	SB30_0-2		SB30	0-2	10:51	3/7/2025	Investigate RECs 1 & 2	
60	SB30_5-7			5-7	10:59	3/7/2025		
61	SB31_0-2		SB31 *	0-2	11:27	3/7/2025	Investigate RECs 1 & 2	
62	SB31_5-7			5-7	11:40	3/7/2025		
63	SB32_0-2		SB32	0-2	14:21	3/7/2025	Investigate RECs 1 & 2	
64	SB32_5-7			5-7	14:28	3/7/2025		
65	SB33_0-2		SB33	0-2	15:05	3/7/2025	Investigate RECs 1 & 2	
66	SB33_5-7			5-7	15:12	3/7/2025		
67	SB34_0-2		SB34 *	0-2	15:40	3/7/2025	Investigate RECs 1 & 2	
68	SB34_5-7			5-7	15:46	3/7/2025		
69	SB35_0-2		SB35	0-2	10:40	3/10/2025	Investigate RECs 1 & 2	
70	SB35_5-7			5-7	10:48	3/10/2025		
71	SB36_0-2		SB36	0-2	11:41	3/10/2025	Investigate RECs 1 & 2	
72	SB36_5-7			5-7	11:49	3/10/2025		
73	SB37_0-2		SB37	0-2	12:17	3/10/2025	Investigate RECs 1 & 2	
74	SB37_5-7			5-7	12:24	3/10/2025		
75	SB38_0-2		SB38	0-2	12:52	3/10/2025	Investigate RECs 1 & 2	
76	SB38_5-7		*	5-7	12:59	3/10/2025		
77	SB39_0-2		SB39	0-2	13:42	3/11/2025	Investigate RECs 1 & 2	
78	SB39_5-7			5-7	13:49	3/11/2025		
79	SB40_0-2		SB40	0-2	12:56	3/11/2025	Investigate RECs 1 & 2	
80	SB40_5-7			5-7	13:08	3/11/2025		
81	SB41_0-2		SB41	0-2	11:49	3/11/2025	Investigate RECs 1 & 2	
82	SB41_5-7			5-7	11:55	3/11/2025		
83	SB42_0-2		SB42	0-2	10:31	3/11/2025	Investigate RECs 1 & 2	
84	SB42_5-7		*	5-7	10:40	3/11/2025		
85	SODUP01_022725	Duplicate	SB01	5-7	-	2/27/2025	QA/QC	Part 375-list VOCs, SVOCs, PCBs, Pesticides/Herbicides, and TAL Metals (including hexavalent and trivalent chromium), total cyanide, and 1,4-dioxane * Samples analyzed for PFAS
86	SODUP02_022825 *		SB10	5-7	-	2/28/2025		
87	SODUP03_030325		SB05	0-2	-	3/3/2025		
88	SODUP04_030425		SB19	5-7	-	3/4/2025		
89	SODUP05_030525		SB24	5-7	-	3/5/2025		
NA	SB04_0-2	MS/MSD	SB04	0-2	15:40	2/27/2025		
	SB15_0-2 *		SB15	0-2	11:17	3/3/2025		
	SB17_5-7		SB17	5-7	12:20	3/4/2025		
	SB27_5-7		SB27	5-7	14:50	3/5/2025		
	SB033_0-2		SB33	0-2	15:05	3/7/2025		
	SOFB01_022825	Field Blank	NA	-	9:45	2/28/2025		
	SOFB02_030325			-	7:45	3/3/2025		
	SOFB03_030525			-	7:49	3/5/2025		
	SOFB04_030725			-	7:46	3/7/2025		
	SOFB05_031125			-	7:49	3/11/2025		
	SOTB01_022825	Trip Blank	NA	-	-	2/28/2025		Part 375 VOCs
	SOTB02_030325			-	-	3/3/2025		
	SOTB03_030525			-	-	3/5/2025		
	SOTB04_030725			-	-	3/7/2025		
	SOTB05_031125			-	-	3/11/2025		
	SOFB01_PFAS_022825	PFAS Field Blank	NA	-	9:38	2/28/2025		PFAS
	SOFB02_PFAS_030325			-	7:50	3/3/2025		
	SOFB03_PFAS_030525			-	7:57	3/5/2025		
	SOFB04_PFAS_030725			-	7:54	3/7/2025		
	SOFB05_PFAS_031125			-	8:27	3/11/2025		

Table 1
Sample Summary
Phase II Environmental Investigation Report

Proposed Bally's Casino - Ring Road at Ferry Point Park
Bronx, New York
Langan Project No. 170773001

GROUNDWATER								
No.	**Sample Name**	**Type**	**Well**	**DTW**	**Time**	**Date**	**Rationale**	**Analysis**
1	TMW01_022725	Grab	TMW01	5.5	13:30	2/27/2025	Investigate REC 1 & 2	Part 375-list VOCs, SVOCs, PCBs, Pesticides/Herbicides, TAL Metals (total and dissolved) (including hexavalent and trivalent chromium), total cyanide, 1,4-dioxane, and PFAS * not analyzed for PFAS
2	TMW07_022825		TMW07	4.5	14:40	2/28/2025		
3	TMW10_022825		TMW10	3.5	10:20	2/28/2025		
4	TMW15_030325		TMW15	3.8	12:51	3/3/2025		
5	TMW20_030425		TMW20	5.5	11:05	3/4/2025		
6	TMW27_030725		TMW27	6.6	9:25	3/7/2025		
7	TMW31_030725		TMW31	5.2	12:57	3/7/2025		
8	TMW34_031025		TMW34	6.7	9:17	3/10/2025		
9	TMW38_031025		TMW38	6.4	14:34	3/10/2025		
10	TMW42_031125		TMW42	4.3	9:47	3/11/2025		
11	GWDUP01_031025	Duplicate	TMW34	6.7	-	3/10/2025	QA/QC	
NA	TMW20_030425	MS/MSD	TMW20	5.5	11:05	3/4/2025		
	GWFB01_030425*	Field Blank	NA	-	8:15	3/4/2025		
	GWFB01_PFAS_030425	PFAS Field Blank		-	8:19	3/4/2025		PFAS
	GWTB01_022825	Trip Blank		-	-	2/28/2025		Part 375 VOCs
	GWTB02_030325	Trip Blank		-	-	3/3/2025		
	GWTB03_030425	Trip Blank		-	-	3/4/2025		
	GWTB04_030725	Trip Blank		-	-	3/7/2025		
	GWTB05_031025	Trip Blank		-	-	3/10/2025		
	GWTB06_031125	Trip Blank		-	-	3/11/2025		

Areas of Concern (AOC):
REC 1 - Current and Historical use of Adjoining and Surrounding Properties
REC 2 - Non-native Fill

Notes:
1. Soil and groundwater samples were analyzed for New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules and Regulations (6 NYCRR) Part 375-list compounds.
2. VOC = volatile organic compound
3. SVOC = semivolatile organic compound
4. PCB = polychlorinated biphenyl
5. TCL = Target Compound List
6. TAL = Target Analyte List
7. QA/QC = quality assurance/quality control
8. NA = not applicable
9. REC = recognized environmental condition
10. PFAS = Per- and Polyfluoroalkyl Substances
11. REC = recognized environmental condition
12. DTW = depth to groundwater
13. Sample depths are provided in feet below grade surface. Groundwater depths are provided in feet below the top of well casing.

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB01	SB01	SB01	SB02	SB02	SB03	SB03	SB04	SB04	SB05	SB05	SB05	SB06	SB06	SB07	SB07	SB08	SB08
			Sample Name	SB01_0-2	SB01_5-7	SODUP01_022725	SB02_0-2	SB02_5-7	SB03_0-2	SB03_5-7	SB04_0-2	SB04_5-7	SB05_0-2	SODUP03_030325	SB05_5-7	SB06_0-2	SB06_5-7	SB07_0-2	SB07_5-7	SB08_0-2	SB08_5-7
			Sample Date	02/27/2025	02/27/2025	02/27/2025	02/27/2025	02/27/2025	02/27/2025	02/27/2025	02/27/2025	02/27/2025	03/03/2025	03/03/2025	03/03/2025	02/28/2025	02/28/2025	02/28/2025	02/28/2025	02/28/2025	02/28/2025
			Sample Depth	0-2	5-7	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																					
1,1,1,2-Tetrachloroethane	630-20-6	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
1,1,1-Trichloroethane	71-55-6	100	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
1,1,2-Trichloroethane	79-00-5	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
1,1-Dichloroethane	75-34-3	26	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
1,1-Dichloroethene	75-35-4	100	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
1,2,3-Trichlorobenzene	87-61-6	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
1,2,3-Trichloropropane	96-18-4	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
1,2,4-Trichlorobenzene	120-82-1	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
1,2,4-Trimethylbenzene	95-63-6	52	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
1,2-Dichlorobenzene	95-50-1	100	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
1,2-Dichloroethane	107-06-2	3.1	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
1,2-Dichloropropane	78-87-5	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	52	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
1,3-Dichlorobenzene	541-73-1	49	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
1,4-Dichlorobenzene	106-46-7	13	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
2-Hexanone (MBK)	591-78-6	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Acetone	67-64-1	100	mg/kg	<0.0079 U	0.0079	0.018	<0.0075 U	<0.0065 U	<0.0065 U	0.028	<0.0072 U	0.034	<0.0091 U	<0.011 U	0.051	<0.0072 U	0.03	<0.012 U	0.017	<0.011 U	0.022
Acrolein	107-02-8	NS	mg/kg	<0.0079 U	<0.0065 U	<0.013 U	<0.0075 U	<0.0065 U	<0.0065 U	<0.0074 U	<0.0072 U	<0.0079 U	<0.0091 U	<0.011 U	<0.016 U	<0.0072 U	<0.0077 U	<0.012 U	<0.0075 U	<0.011 U	<0.01 U
Acrylonitrile	107-13-1	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Benzene	71-43-2	4.8	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Bromochloromethane	74-97-5	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Bromodichloromethane	75-27-4	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Bromoform	75-25-2	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Bromomethane	74-83-9	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Carbon Disulfide	75-15-0	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	0.011	<0.0036 U	0.0042	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	0.0025 J	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Carbon Tetrachloride	56-23-5	2.4	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Chlorobenzene	108-90-7	100	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Chloroethane	75-00-3	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Chloroform	67-66-3	49	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Chloromethane	74-87-3	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Cis-1,2-Dichloroethene	156-59-2	100	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Cis-1,3-Dichloropropene	10061-01-5	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Cyclohexane	110-82-7	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Cymene	99-87-6	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Dibromochloromethane	124-48-1	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Dibromomethane	74-95-3	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Dichlorodifluoromethane	75-71-8	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Ethylbenzene	100-41-4	41	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Hexachlorobutadiene	87-68-3	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Isopropylbenzene (Cumene)	98-82-8	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
M,P-Xylene	179601-23-1	NS	mg/kg	<0.0079 U	<0.0065 U	<0.013 U	<0.0075 U	<0.0065 U	<0.0065 U	<0.0074 U	<0.0072 U	<0.0079 U	<0.0091 U	<0.011 U	<0.016 U	<0.0072 U	<0.0077 U	<0.012 U	<0.0075 U	<0.011 U	<0.01 U
Methyl Acetate	79-20-9	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	100	mg/kg	<0.004 U	<0.0033 U	0.0038 J	<0.0038 U	<0.0033 U	<0.0033 U	0.0071	<0.0036 U	0.012	<0.0045 U	<0.0057 U	0.017	<0.0036 U	0.0099	<0.0058 U	0.0035 J	<0.0054 U	0.0053
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Methylcyclohexane	108-87-2	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Methylene Chloride	75-09-2	100	mg/kg	<0.0079 U	<0.0065 U	<0.013 U	<0.0075 U	<0.0065 U	<0.0065 U	<0.0074 U	<0.0072 U	<0.0079 U	<0.0091 U	<0.011 U	<0.016 U	<0.0072 U	<0.0077 U	<0.012 U	<0.0075 U	<0.011 U	<0.01 U
n-Butylbenzene	104-51-8	100	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
n-Propylbenzene	103-65-1	100	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Sec-Butylbenzene	135-98-8	100	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Styrene	100-42-5	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
T-Butylbenzene	98-06-6	100	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Tert-Butyl Alcohol	75-65-0	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Tert-Butyl Methyl Ether	1634-04-4	100	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Tetrachloroethene (PCE)	127-18-4	19	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Toluene	108-88-3	100	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Total Xylenes	1330-20-7	100	mg/kg	<0.012 U	<0.0098 U	<0.019 U	<0.011 U	<0.0098 U	<0.0098 U	<0.011 U	<0.011 U	<0.012 U	<0.014 U	<0.017 U	<0.025 U	<0.011 U	<0.012 U	<0.017 U	<0.011 U	<0.016 U	<0.015 U
Trans-1,2-Dichloroethene	156-60-5	100	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Trans-1,3-Dichloropropene	10061-02-6	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Trichloroethene (TCE)	79-01-6	21	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Trichlorofluoromethane	75-69-4	NS	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U
Vinyl Chloride	75-01-4	0.9	mg/kg	<0.004 U	<0.0033 U	<0.0064 U	<0.0038 U	<0.0033 U	<0.0033 U	<0.0037 U	<0.0036 U	<0.004 U	<0.0045 U	<0.0057 U	<0.0082 U	<0.0036 U	<0.0038 U	<0.0058 U	<0.0038 U	<0.0054 U	<0.005 U

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB01	SB01	SB01	SB02	SB02	SB03	SB03	SB04	SB04	SB05	SB05	SB05	SB06	SB06	SB07	SB07	SB08	SB08
			Sample Name	SB01_0-2	SB01_5-7	SODUP01_022725	SB02_0-2	SB02_5-7	SB03_0-2	SB03_5-7	SB04_0-2	SB04_5-7	SB05_0-2	SODUP03_030325	SB05_5-7	SB06_0-2	SB06_5-7	SB07_0-2	SB07_5-7	SB08_0-2	SB08_5-7
			Sample Date	02/27/2025	02/27/2025	02/27/2025	02/27/2025	02/27/2025	02/27/2025	02/27/2025	02/27/2025	02/27/2025	03/03/2025	03/03/2025	03/03/2025	02/28/2025	02/28/2025	02/28/2025	02/28/2025	02/28/2025	02/28/2025
			Sample Depth	0-2	5-7	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																					
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	mg/kg	<0.196 U	<0.2 U	<0.33 U	<0.201 U	<0.196 U	<0.186 U	<0.212 U	<0.182 U	<0.184 U	<0.182 U	<0.183 U	<0.3 U	<0.185 U	<0.188 U	<0.189 U	<0.188 U	<0.188 U	<0.193 U
1,2-Diphenylhydrazine	122-66-7	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
1,4-Dioxane (P-Dioxane)	123-91-1	13	mg/kg	<0.0198 U	<0.0198 U	<0.019 U	<0.019 U	<0.019 U	<0.019 U	<0.019 U	<0.019 U	<0.019 U	<0.0192 U	<0.0196 U	<0.02 U	<0.0198 U	<0.0198 U	<0.0198 U	<0.0198 U	<0.0198 U	<0.0198 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	mg/kg	<0.196 U	<0.2 U	<0.33 U	<0.201 U	<0.196 U	<0.186 U	<0.212 U	<0.182 U	<0.184 U	<0.182 U	<0.183 U	<0.3 U	<0.185 U	<0.188 U	<0.189 U	<0.188 U	<0.188 U	<0.193 U
2,4,5-Trichlorophenol	95-95-4	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
2,4,6-Trichlorophenol	88-06-2	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
2,4-Dichlorophenol	120-83-2	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
2,4-Dimethylphenol	105-67-9	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
2,4-Dinitrophenol	51-28-5	NS	mg/kg	<0.196 U	<0.2 U	<0.33 U	<0.201 U	<0.196 U	<0.186 U	<0.212 U	<0.182 U	<0.184 U	<0.182 U	<0.183 U	<0.3 U	<0.185 U	<0.188 U	<0.189 U	<0.188 U	<0.188 U	<0.193 U
2,4-Dinitrotoluene	121-14-2	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
2,6-Dinitrotoluene	606-20-2	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
2-Chloronaphthalene	91-58-7	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
2-Chlorophenol	95-57-8	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
2-Methylnaphthalene	91-57-6	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	0.386 D	0.0621 JD	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
2-Methylphenol (o-Cresol)	95-48-7	100	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
2-Nitroaniline	88-74-4	NS	mg/kg	<0.196 U	<0.2 U	<0.33 U	<0.201 U	<0.196 U	<0.186 U	<0.212 U	<0.182 U	<0.184 U	<0.182 U	<0.183 U	<0.3 U	<0.185 U	<0.188 U	<0.189 U	<0.188 U	<0.188 U	<0.193 U
2-Nitrophenol	88-75-5	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	100	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
3,3'-Dichlorobenzidine	91-94-1	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
3-Nitroaniline	99-09-2	NS	mg/kg	<0.196 U	<0.2 U	<0.33 U	<0.201 U	<0.196 U	<0.186 U	<0.212 U	<0.182 U	<0.184 U	<0.182 U	<0.183 U	<0.3 U	<0.185 U	<0.188 U	<0.189 U	<0.188 U	<0.188 U	<0.193 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	mg/kg	<0.196 U	<0.2 U	<0.33 U	<0.201 U	<0.196 U	<0.186 U	<0.212 U	<0.182 U	<0.184 U	<0.182 U	<0.183 U	<0.3 U	<0.185 U	<0.188 U	<0.189 U	<0.188 U	<0.188 U	<0.193 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
4-Chloro-3-Methylphenol	59-50-7	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
4-Chloroaniline	106-47-8	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
4-Nitroaniline	100-01-6	NS	mg/kg	<0.196 U	<0.2 U	<0.33 U	<0.201 U	<0.196 U	<0.186 U	<0.212 U	<0.182 U	<0.184 U	<0.182 U	<0.183 U	<0.3 U	<0.185 U	<0.188 U	<0.189 U	<0.188 U	<0.188 U	<0.193 U
4-Nitrophenol	100-02-7	NS	mg/kg	<0.196 U	<0.2 U	<0.33 U	<0.201 U	<0.196 U	<0.186 U	<0.212 U	<0.182 U	<0.184 U	<0.182 U	<0.183 U	<0.3 U	<0.185 U	<0.188 U	<0.189 U	<0.188 U	<0.188 U	<0.193 U
Acenaphthene	83-32-9	100	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	0.206 D	<0.106 U	0.101 D	<0.092 U	0.716 D	<0.0914 U	<0.15 U	0.124 D	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Acenaphthylene	208-96-8	100	mg/kg	0.185 D	<0.1 U	0.0964 JD	0.108 D	<0.0981 U	0.0998 D	<0.106 U	0.102 D	0.0728 JD	0.265 D	0.205 D	<0.15 U	0.108 D	<0.0941 U	0.111 D	<0.0941 U	0.0732 JD	0.0586 JD
Acetophenone	98-86-2	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	mg/kg	<0.394 U	<0.401 U	<0.662 U	<0.404 U	<0.393 U	<0.373 U	<0.425 U	<0.364 U	<0.369 U	<0.365 U	<0.366 U	<0.602 U	<0.371 U	<0.377 U	<0.38 U	<0.377 U	<0.378 U	<0.386 U
Anthracene	120-12-7	100	mg/kg	0.321 D	<0.1 U	0.0845 JD	0.263 D	<0.0981 U	0.775 D	<0.106 U	0.37 D	0.126 D	2.14 D	0.205 D	<0.15 U	0.266 D	<0.0941 U	0.161 D	<0.0941 U	0.17 D	<0.0965 U
Atrazine	1912-24-9	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Benzaldehyde	100-52-7	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Benzidine	92-87-5	NS	mg/kg	<0.394 U	<0.401 U	<0.662 U	<0.404 U	<0.393 U	<0.373 U	<0.425 U	<0.364 U	<0.369 U	<0.365 U	<0.366 U	<0.602 U	<0.371 U	<0.377 U	<0.38 U	<0.377 U	<0.378 U	<0.386 U
Benzo(a)anthracene	56-55-3	1	mg/kg	0.894 D	<0.1 U	0.225 D	0.646 D	<0.0981 U	**1.22 D**	<0.106 U	**1.06 D**	0.527 D	**4.7 D**	0.656 D	<0.15 U	0.741 D	<0.0941 U	0.605 D	<0.0941 U	0.522 D	0.15 D
Benzo(a)pyrene	50-32-8	1	mg/kg	0.884 D	<0.1 U	0.23 D	0.615 D	<0.0981 U	**1.23 D**	<0.106 U	**1.05 D**	0.514 D	**2.75 D**	0.512 D	<0.15 U	0.663 D	<0.0941 U	0.637 D	<0.0941 U	0.332 D	0.0879 JD
Benzo(b)fluoranthene	205-99-2	1	mg/kg	0.862 D	<0.1 U	0.149 JD	0.488 D	<0.0981 U	**1.07 D**	<0.106 U	**1.01 D**	0.518 D	**2.87 D**	0.489 D	<0.15 U	0.681 D	<0.0941 U	0.602 D	<0.0941 U	0.345 D	0.126 D
Benzo(g,h,i)Perylene	191-24-2	100	mg/kg	0.469 D	<0.1 U	0.108 JD	0.316 D	<0.0981 U	0.625 D	<0.106 U	0.568 D	0.288 D	1.84 D	0.354 D	<0.15 U	0.317 D	<0.0941 U	0.313 D	<0.0941 U	0.172 D	<0.0965 U
Benzo(k)fluoranthene	207-08-9	3.9	mg/kg	0.835 D	<0.1 U	0.157 JD	0.513 D	<0.0981 U	1.06 D	<0.106 U	0.934 D	0.442 D	2.25 D	0.485 D	<0.15 U	0.586 D	<0.0941 U	0.523 D	<0.0941 U	0.337 D	0.0956 JD
Benzoic Acid	65-85-0	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Benzyl Alcohol	100-51-6	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Benzyl Butyl Phthalate	85-68-7	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Biphenyl (Diphenyl)	92-52-4	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	0.0765 JD	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Bis(2-chloroethoxy) methane	111-91-1	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	0.0853 JD	0.0481 JD	0.0511 JD	<0.15 U	0.0623 JD	<0.0941 U	<0.0948 U	<0.0941 U	0.0694 JD	<0.0965 U
Caprolactam	105-60-2	NS	mg/kg	<0.196 U	<0.2 U	<0.33 U	<0.201 U	<0.196 U	<0.186 U	<0.212 U	<0.182 U	<0.184 U	<0.182 U	<0.183 U	<0.3 U	<0.185 U	<0.188 U	<0.189 U	<0.188 U	<0.188 U	<0.193 U
Carbazole	86-74-8	NS	mg/kg	0.164 D	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	0.124 D	<0.106 U	0.104 D	<0.092 U	0.623 D	<0.0914 U	<0.15 U	0.103 D	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Chrysene	218-01-9	3.9	mg/kg	0.966 D	<0.1 U	0.24 D	0.554 D	<0.0981 U	1.18 D	<0.106 U	1.09 D	0.536 D	**5.14 D**	0.65 D	<0.15 U	0.73 D	<0.0941 U	0.591 D	<0.0941 U	0.515 D	0.147 D
Dibenz(a,h)anthracene	53-70-3	0.33	mg/kg	0.151 D	<0.1 U	<0.165 U	0.0943 JD	<0.0981 U	0.188 D	<0.106 U	0.183 D	0.0993 D	**0.761 D**	0.12 D	<0.15 U	0.117 D	<0.0941 U	0.112 D	<0.0941 U	0.0641 JD	<0.0965 U
Dibenzofuran	132-64-9	59	mg/kg	0.077 JD	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	0.0819 JD	<0.106 U	0.0763 JD	<0.092 U	0.602 D	<0.0914 U	<0.15 U	0.0578 JD	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Dibutyl phthalate	84-74-2	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Diethyl phthalate	84-66-2	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Dimethyl phthalate	131-11-3	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Dioctyl phthalate	117-84-0	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Diphenylamine	122-39-4	NS	mg/kg	<0.196 U	<0.2 U	<0.33 U	<0.201 U	<0.196 U	<0.186 U	<0.212 U	<0.182 U	<0.184 U	<0.182 U	<0.183 U	<0.3 U	<0.185 U	<0.188 U	<0.189 U	<0.188 U	<0.188 U	<0.193 U
Fluoranthene	206-44-0	100	mg/kg	2.28 D	<0.1 U	0.384 D	1.49 D	<0.0981 U	3.84 D	<0.106 U	3.73 D	1.06 D	12.2 D	1.01 D	<0.15 U	1.84 D	<0.0941 U	1.29 D	0.0744 JD	1.22 D	0.331 D
Fluorene	86-73-7	100	mg/kg	0.0865 JD	<0.1 U	<0.165 U	0.128 D	<0.0981 U	0.179 D	<0.106 U	0.118 D	<0.092 U	0.854 D	<0.0914 U	<0.15 U	0.112 D	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Hexachlorobenzene	118-74-1	1.2	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Hexachlorobutadiene	87-68-3	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Hexachlorocyclopentadiene	77-47-4	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Hexachloroethane	67-72-1	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	mg/kg	**0.524 D**	<0.1 U	0.106 JD	0.33 D	<0.0981 U	**0.668 D**	<0.106 U	**0.624 D**	0.311 D	**1.76 D**	0.3 D	<0.15 U	0.386 D	<0.0941 U	0.367 D	<0.0941 U	0.203 D	0.0501 JD
Isophorone	78-59-1	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Naphthalene	91-20-3	100	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	0.698 D	0.0957 D	<0.15 U	0.0593 JD	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Nitrobenzene	98-95-3	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
n-Nitrosodimethylamine	62-75-9	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	0.176 D	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
n-Nitrosodiphenylamine	86-30-6	NS	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Pentachlorophenol	87-86-5	6.7	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Phenanthrene	85-01-8	100	mg/kg	1.64 D	<0.1 U	0.0964 JD	1.1 D	<0.0981 U	2.47 D	<0.106 U	1.76 D	0.385 D	10.3 D	0.461 D	<0.15 U	0.91 D	<0.0941 U	0.405 D	<0.0941 U	0.596 D	0.143 D
Phenol	108-95-2	100	mg/kg	<0.0983 U	<0.1 U	<0.165 U	<0.101 U	<0.0981 U	<0.0931 U	<0.106 U	<0.0909 U	<0.092 U	<0.0911 U	<0.0914 U	<0.15 U	<0.0927 U	<0.0941 U	<0.0948 U	<0.0941 U	<0.0944 U	<0.0965 U
Pyrene	129-00-0	100	mg/kg	1.32 D	<0.1 U	0.343 D	0.927 D	<0.0981 U	2.33 D	<0.106 U	1.84 D	0.764 D	12 D	1.22 D	<0.15 U	1.13 D	<0.0941 U	0.817 D	<0.0941 U	0.845 D	0.233 D
Pyridine	110-86-1	NS	mg/kg	<0.394 U	<0.401 U	<0.662 U	<0.404 U	<0.393 U	<0.373 U	<0.425 U	<0.364 U	<0.369 U	<0.365 U	<0.366 U	<0.602 U	<0.371 U	<0.377 U	<0.38 U	<0.377 U	<0.378 U	<0.386 U

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB01	SB01	SB01	SB02	SB02	SB03	SB03	SB04	SB04	SB05	SB05	SB05	SB06	SB06	SB07	SB07	SB08	SB08
			Sample Name	SB01_0-2	SB01_5-7	SODUP01_022725	SB02_0-2	SB02_5-7	SB03_0-2	SB03_5-7	SB04_0-2	SB04_5-7	SB05_0-2	SODUP03_030325	SB05_5-7	SB06_0-2	SB06_5-7	SB07_0-2	SB07_5-7	SB08_0-2	SB08_5-7
			Sample Date	02/27/2025	02/27/2025	02/27/2025	02/27/2025	02/27/2025	02/27/2025	02/27/2025	02/27/2025	02/27/2025	03/03/2025	03/03/2025	03/03/2025	02/28/2025	02/28/2025	02/28/2025	02/28/2025	02/28/2025	02/28/2025
			Sample Depth	0-2	5-7	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides																					
4,4'-DDD	72-54-8	13	mg/kg	<0.00195 U	<0.00197 U	0.0117 D	<0.00199 U	<0.00192 U	<0.00184 U	<0.00212 U	<0.0018 U	<0.00182 U	<0.00176 U	0.0025 D	<0.0029 U	0.00407 DP	<0.00187 U	<0.00188 U	<0.00189 U	<0.00187 U	<0.00191 U
4,4'-DDE	72-55-9	8.9	mg/kg	<0.00195 U	<0.00197 U	0.0036 D	<0.00199 U	<0.00192 U	<0.00184 U	<0.00212 U	<0.0018 U	<0.00182 U	<0.00176 U	0.00186 D	<0.0029 U	0.0217 D	<0.00187 U	0.0113 D	<0.00189 U	<0.00187 U	<0.00191 U
4,4'-DDT	50-29-3	7.9	mg/kg	0.00242 DP	<0.00197 U	<0.00331 U	<0.00199 U	<0.00192 U	<0.00184 U	<0.00212 U	<0.0018 U	<0.00182 U	<0.00176 U	0.00305 D	<0.0029 U	0.00497 D	<0.00187 U	0.00779 DP	<0.00189 U	<0.00187 U	<0.00191 U
Aldrin	309-00-2	0.097	mg/kg	<0.00195 U	<0.00197 U	<0.00331 U	<0.00199 U	<0.00192 U	<0.00184 U	<0.00212 U	<0.0018 U	<0.00182 U	<0.00176 U	<0.00181 U	<0.0029 U	<0.00182 U	<0.00187 U	<0.00188 U	<0.00189 U	<0.00187 U	<0.00191 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.48	mg/kg	<0.00195 U	<0.00197 U	<0.00331 U	<0.00199 U	<0.00192 U	<0.00184 U	<0.00212 U	<0.0018 U	<0.00182 U	<0.00176 U	<0.00181 U	<0.0029 U	<0.00182 U	<0.00187 U	<0.00188 U	<0.00189 U	<0.00187 U	<0.00191 U
Alpha Chlordane	5103-71-9	4.2	mg/kg	<0.00195 U	<0.00197 U	0.0325 D	<0.00199 U	0.00195 D	<0.00184 U	<0.00212 U	<0.0018 U	<0.00182 U	0.00267 D	0.00381 D	<0.0029 U	<0.00182 U	<0.00187 U	<0.00188 U	<0.00189 U	<0.00187 U	<0.00191 U
Alpha Endosulfan	959-98-8	24	mg/kg	<0.00195 U	<0.00197 U	<0.00331 U	<0.00199 U	<0.00192 U	<0.00184 U	<0.00212 U	<0.0018 U	<0.00182 U	<0.00176 U	<0.00181 U	<0.0029 U	<0.00182 U	<0.00187 U	<0.00188 U	<0.00189 U	<0.00187 U	<0.00191 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.36	mg/kg	<0.00195 U	<0.00197 U	<0.00331 U	<0.00199 U	<0.00192 U	<0.00184 U	<0.00212 U	<0.0018 U	<0.00182 U	<0.00176 U	<0.00181 U	<0.0029 U	<0.00182 U	<0.00187 U	<0.00188 U	<0.00189 U	<0.00187 U	<0.00191 U
Beta Endosulfan	33213-65-9	24	mg/kg	<0.00195 U	<0.00197 U	<0.00331 U	<0.00199 U	<0.00192 U	<0.00184 U	<0.00212 U	<0.0018 U	<0.00182 U	<0.00176 U	<0.00181 U	<0.0029 U	<0.00182 U	<0.00187 U	<0.00188 U	<0.00189 U	<0.00187 U	<0.00191 U
Chlordane (alpha and gamma)	57-74-9	NS	mg/kg	0.0511 D	<0.0395 U	0.25 D	<0.0399 U	<0.0383 U	<0.0369 U	<0.0424 U	<0.0361 U	<0.0364 U	<0.0352 U	<0.0362 U	<0.0581 U	<0.0365 U	<0.0373 U	<0.0376 U	<0.0378 U	<0.0375 U	<0.0382 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	100	mg/kg	<0.00195 U	<0.00197 U	<0.00331 U	<0.00199 U	<0.00192 U	<0.00184 U	<0.00212 U	<0.0018 U	<0.00182 U	<0.00176 U	<0.00181 U	<0.0029 U	<0.00182 U	<0.00187 U	<0.00188 U	<0.00189 U	<0.00187 U	<0.00191 U
Dieldrin	60-57-1	0.2	mg/kg	0.00395 D	<0.00197 U	<0.00331 U	<0.00199 U	<0.00192 U	<0.00184 U	<0.00212 U	<0.0018 U	<0.00182 U	<0.00176 U	0.00369 D	<0.0029 U	<0.00182 U	<0.00187 U	<0.00188 U	<0.00189 U	<0.00187 U	<0.00191 U
Endosulfan Sulfate	1031-07-8	24	mg/kg	<0.00195 U	<0.00197 U	<0.00331 U	<0.00199 U	<0.00192 U	<0.00184 U	<0.00212 U	<0.0018 U	<0.00182 U	<0.00176 U	<0.00181 U	<0.0029 U	<0.00182 U	<0.00187 U	<0.00188 U	<0.00189 U	<0.00187 U	<0.00191 U
Endrin	72-20-8	11	mg/kg	<0.00195 U	<0.00197 U	<0.00331 U	<0.00199 U	<0.00192 U	<0.00184 U	<0.00212 U	<0.0018 U	<0.00182 U	<0.00176 U	<0.00181 U	<0.0029 U	<0.00182 U	<0.00187 U	<0.00188 U	<0.00189 U	<0.00187 U	<0.00191 U
Endrin Aldehyde	7421-93-4	NS	mg/kg	<0.00195 U	<0.00197 U	<0.00331 U	<0.00199 U	<0.00192 U	<0.00184 U	<0.00212 U	<0.0018 U	<0.00182 U	<0.00176 U	<0.00181 U	<0.0029 U	<0.00182 U	<0.00187 U	<0.00188 U	<0.00189 U	<0.00187 U	<0.00191 U
Endrin Ketone	53494-70-5	NS	mg/kg	<0.00195 U	<0.00197 U	<0.00331 U	<0.00199 U	<0.00192 U	<0.00184 U	<0.00212 U	<0.0018 U	<0.00182 U	<0.00176 U	<0.00181 U	<0.0029 U	<0.00182 U	<0.00187 U	<0.00188 U	<0.00189 U	<0.00187 U	<0.00191 U
Gamma Bhc (Lindane)	58-89-9	1.3	mg/kg	<0.00195 U	<0.00197 U	<0.00331 U	<0.00199 U	<0.00192 U	<0.00184 U	<0.00212 U	<0.0018 U	<0.00182 U	<0.00176 U	<0.00181 U	<0.0029 U	<0.00182 U	<0.00187 U	<0.00188 U	<0.00189 U	<0.00187 U	<0.00191 U
Gamma-Chlordane	5566-34-7	NS	mg/kg	0.002 DP	<0.00197 U	0.038 D	<0.00199 U	0.00239 DP	<0.00184 U	<0.00212 U	<0.0018 U	<0.00182 U	0.00265 D	0.00413 D	<0.0029 U	<0.00182 U	<0.00187 U	<0.00188 U	<0.00189 U	<0.00187 U	<0.00191 U
Heptachlor	76-44-8	2.1	mg/kg	0.0048 D	<0.00197 U	<0.00331 U	<0.00199 U	<0.00192 U	<0.00184 U	<0.00212 U	<0.0018 U	<0.00182 U	<0.00176 U	<0.00181 U	<0.0029 U	<0.00182 U	<0.00187 U	<0.00188 U	<0.00189 U	<0.00187 U	<0.00191 U
Heptachlor Epoxide	1024-57-3	NS	mg/kg	<0.00195 U	<0.00197 U	<0.00331 U	<0.00199 U	<0.00192 U	<0.00184 U	<0.00212 U	<0.0018 U	<0.00182 U	<0.00176 U	<0.00181 U	<0.0029 U	<0.00182 U	<0.00187 U	<0.00188 U	<0.00189 U	<0.00187 U	<0.00191 U
Methoxychlor	72-43-5	NS	mg/kg	<0.00195 U	<0.00197 U	<0.00331 U	<0.00199 U	<0.00192 U	<0.00184 U	<0.00212 U	<0.0018 U	<0.00182 U	<0.00176 U	<0.00181 U	<0.0029 U	<0.00182 U	<0.00187 U	<0.00188 U	<0.00189 U	<0.00187 U	<0.00191 U
Toxaphene	8001-35-2	NS	mg/kg	<0.195 U	<0.197 U	<0.331 U	<0.199 U	<0.192 U	<0.184 U	<0.212 U	<0.18 U	<0.182 U	<0.176 U	<0.181 U	<0.29 U	<0.182 U	<0.187 U	<0.188 U	<0.189 U	<0.187 U	<0.191 U
Herbicides																					
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	mg/kg	<0.0234 U	<0.0238 U	<0.0402 U	<0.0242 U	<0.0231 U	<0.0218 U	<0.0258 U	<0.0221 U	<0.0224 U	<0.0219 U	<0.0217 U	<0.0351 U	<0.0222 U	<0.0228 U	<0.023 U	<0.0231 U	<0.0228 U	<0.0228 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	mg/kg	<0.0234 U	<0.0238 U	<0.0402 U	<0.0242 U	<0.0231 U	<0.0218 U	<0.0258 U	<0.0221 U	<0.0224 U	<0.0219 U	<0.0217 U	<0.0351 U	<0.0222 U	<0.0228 U	<0.023 U	<0.0231 U	<0.0228 U	<0.0228 U
Silvex (2,4,5-Tp)	93-72-1	100	mg/kg	<0.0234 U	<0.0238 U	<0.0402 U	<0.0242 U	<0.0231 U	<0.0218 U	<0.0258 U	<0.0221 U	<0.0224 U	<0.0219 U	<0.0217 U	<0.0351 U	<0.0222 U	<0.0228 U	<0.023 U	<0.0231 U	<0.0228 U	<0.0228 U
Polychlorinated Biphenyl																					
PCB-1016 (Aroclor 1016)	12674-11-2	NS	mg/kg	<0.0196 U	<0.0199 U	<0.0334 U	<0.0201 U	<0.0193 U	<0.0186 U	<0.0214 U	<0.0182 U	<0.0184 U	<0.0178 U	<0.0183 U	<0.0293 U	<0.0184 U	<0.0189 U	<0.019 U	<0.0191 U	<0.0189 U	<0.0193 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	mg/kg	<0.0196 U	<0.0199 U	<0.0334 U	<0.0201 U	<0.0193 U	<0.0186 U	<0.0214 U	<0.0182 U	<0.0184 U	<0.0178 U	<0.0183 U	<0.0293 U	<0.0184 U	<0.0189 U	<0.019 U	<0.0191 U	<0.0189 U	<0.0193 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	mg/kg	<0.0196 U	<0.0199 U	<0.0334 U	<0.0201 U	<0.0193 U	<0.0186 U	<0.0214 U	<0.0182 U	<0.0184 U	<0.0178 U	<0.0183 U	<0.0293 U	<0.0184 U	<0.0189 U	<0.019 U	<0.0191 U	<0.0189 U	<0.0193 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	mg/kg	<0.0196 U	<0.0199 U	<0.0334 U	<0.0201 U	<0.0193 U	<0.0186 U	<0.0214 U	<0.0182 U	<0.0184 U	<0.0178 U	<0.0183 U	<0.0293 U	<0.0184 U	<0.0189 U	<0.019 U	<0.0191 U	<0.0189 U	<0.0193 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	mg/kg	<0.0196 U	<0.0199 U	<0.0334 U	<0.0201 U	<0.0193 U	<0.0186 U	<0.0214 U	<0.0182 U	<0.0184 U	<0.0178 U	<0.0183 U	<0.0293 U	<0.0184 U	<0.0189 U	<0.019 U	<0.0191 U	<0.0189 U	<0.0193 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	mg/kg	<0.0196 U	<0.0199 U	<0.0334 U	<0.0201 U	<0.0193 U	<0.0186 U	<0.0214 U	<0.0182 U	<0.0184 U	<0.0178 U	<0.0183 U	<0.0293 U	<0.0184 U	<0.0189 U	<0.019 U	<0.0191 U	<0.0189 U	<0.0193 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	mg/kg	<0.0196 U	<0.0199 U	<0.0334 U	<0.0201 U	<0.0193 U	<0.0186 U	<0.0214 U	<0.0182 U	<0.0184 U	<0.0178 U	<0.0183 U	<0.0293 U	<0.0184 U	<0.0189 U	<0.019 U	<0.0191 U	<0.0189 U	<0.0193 U
Total PCBs	1336-36-3	1	mg/kg	<0.0196 U	<0.0199 U	<0.0334 U	<0.0201 U	<0.0193 U	<0.0186 U	<0.0214 U	<0.0182 U	<0.0184 U	<0.0178 U	<0.0183 U	<0.0293 U	<0.0184 U	<0.0189 U	<0.019 U	<0.0191 U	<0.0189 U	<0.0193 U
Metals																					
Aluminum	7429-90-5	NS	mg/kg	14,600	17,900	23,300	15,800	13,100	14,200	12,200	20,800	11,500	11,300	9,580	21,100	11,900	18,900	11,500	10,700	12,500	16,100
Antimony	7440-36-0	NS	mg/kg	<2.46 U	<2.51 U	<4.2 U	<2.53 U	<2.46 U	<2.33 U	<2.7 U	<2.31 U	<2.34 U	<2.28 U	<2.31 U	<3.76 U	<2.32 U	<2.38 U	<2.4 U	<2.41 U	<2.38 U	<2.43 U
Arsenic	7440-38-2	**16**	mg/kg	6	2.2	**19.5**	4.86	1.94	12.5	3.38	2.88	6.51	6.27	5.27	10.7	10.1	2.65	4.94	1.47	3.48	2.67
Barium	7440-39-3	**400**	mg/kg	119	94.7	99.7	94.8	63.9	78.3	66.9	90.4	105	224	68.9	89.1	99.3	129	106	73.8	82.1	69.8
Beryllium	7440-41-7	72	mg/kg	0.566	0.499	0.985	0.557	0.368	0.424	0.396	0.522	0.452	0.533	0.341	0.867	0.381	0.478	0.373	0.246	0.392	0.52
Cadmium	7440-43-9	4.3	mg/kg	<0.296 U	<0.301 U	0.722	<0.303 U	<0.295 U	<0.28 U	<0.324 U	<0.277 U	<0.28 U	0.42	<0.277 U	<0.452 U	0.316	<0.286 U	<0.288 U	<0.289 U	<0.286 U	<0.292 U
Calcium	7440-70-2	NS	mg/kg	12,100	1,180	2,290	1,890	956	33,100	1,730	1,080	31,700	12,500	10,200	2,090	7,480	963	11,800	1,380	1,690	1,450
Chromium, Hexavalent	18540-29-9	110	mg/kg	<0.592 U	<0.602 U	<1.01 U	<0.607 U	<0.59 U	<0.56 U	<0.647 U	<0.554 U	<0.561 U	<0.548 U	<0.553 U	<0.903 U	<0.558 U	<0.572 U	<0.576 U	<0.579 U	<0.571 U	<0.584 U
Chromium, Total	7440-47-3	110	mg/kg	34.2	64.6	68.9	39	31.9	18.5	37.9	61.5	24	29.7	21.3	53.3	22.4	69.5	27.7	39.6	30.2	42
Chromium, Trivalent	16065-83-1	180	mg/kg	34.2	64.6	68.9	39	31.9	18.5	37.9	61.5	24	29.7	21.3	53.3	22.4	69.5	27.7	39.6	30.2	42
Cobalt	7440-48-4	NS	mg/kg	11.3	18.2	13.5	13.6	10.3	6.27	9.64	17.6	8.58	10	6.96	14	6.97	19.2	8.8	10.5	9.41	14.6
Copper	7440-50-8	270	mg/kg	41.1	23.2	135	23.8	20.2	32.7	19.7	25.1	44.8	72.4	33.1	57.2	47.8	32.5	38	21.4	23.3	20.2
Cyanide	57-12-5	27	mg/kg	<0.592 U	<0.602 U	<1.01 U	<0.607 U	<0.59 U	<0.56 U	<0.647 U	<0.554 U	<0.561 U	0.641	<0.553 U	<0.903 U	<0.558 U	<0.572 U	<0.576 U	<0.579 U	<0.571 U	<0.584 U
Iron	7439-89-6	NS	mg/kg	22,800	23,400	37,100	23,600	18,400	16,800	20,600	25,800	19,500	23,800	14,500	34,000	15,200	27,600	16,900	15,500	17,200	18,000
Lead	7439-92-1	**400**	mg/kg	83	6.55	182	27.2	3.89	111	26.5	8.61	101	**421**	69.7	70.2	98.5	4.71	173	6.66	23.7	17.8
Magnesium	7439-95-4	NS	mg/kg	5,770	5,850	8,730	4,300	3,910	4,380	4,540	6,200	14,800	5,170	5,470	8,130	3,260	7,190	5,740	3,950	3,520	4,320
Manganese	7439-96-5	2000	mg/kg	411	282	478	552	470	272	445	327	293	314	238	458	226	354	284	241	292	247
Mercury	7439-97-6	**0.81**	mg/kg	0.19	<0.0361 U	**2.81**	0.0476	<0.0354 U	0.26	0.0654	0.0468	0.295	0.291	0.231	**1.32**	0.211	<0.0343 U	0.231	<0.0347 U	0.34	0.0391
Nickel	7440-02-0	310	mg/kg	43.3	134	36.6	51.9	46.4	13.4	54	112	18.8	27.6	17.7	43.5	18.3	78.6	21.9	69	33.9	76.2
Potassium	7440-09-7	NS	mg/kg	1,960	1,840	4,960	1,810	1,830	1,460	2,330	2,120	2,220	2,230	1,730	5,010	1,390	4,210	1,940	1,790	1,630	1,210
Selenium	7782-49-2	180	mg/kg	<2.46 U	<2.51 U	<4.2 U	<2.53 U	<2.46 U	<2.33 U	<2.7 U	<2.31 U	<2.34 U	<2.28 U	<2.31 U	<3.76 U	<2.32 U	<2.38 U	<2.4 U	<2.41 U	<2.38 U	<2.43 U
Silver	7440-22-4	180	mg/kg	<0.497 U	<0.505 U	1.19	<0.509 U	<0.496 U	<0.471 U	<0.544 U	<0.465 U	<0.471 U	<0.461 U	<0.465 U	<0.759 U	<0.469 U	<0.48 U	<0.484 U	<0.486 U	<0.48 U	<0.491 U
Sodium	7440-23-5	NS	mg/kg	296	252	6,570	305	441	783	1,730	242	482	739	649	3,480	841	664	304	318	148	417
Thallium	7440-28-0	NS	mg/kg	<1.98 U	<2.01 U	<3.36 U	<2.03 U	<1.97 U	<1.87 U	<2.16 U	<1.85 U	<1.87 U	<1.83 U	<1.85 U	<3.02 U	<1.86 U	<1.91 U	<1.92 U	<1.93 U	<1.91 U	<1.95 U
Vanadium	7440-62-2	NS	mg/kg	36.2	39.5	52.6	38.9	28.9	30.3	30.3	45.8	35.9	33.9	27.6	48.2	32.6	47	32.1	27.4	32.8	33.9
Zinc	7440-66-6	10000	mg/kg	148	39.2	218	47.2	28.9	102	39.9	43.6	111	331	79.6	118	107	44.9	131	26.6	45.2	44.9

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB01	SB01	SB01	SB02	SB02	SB03	SB03	SB04	SB04	SB05	SB05	SB05	SB06	SB06	SB07	SB07	SB08	SB08
			Sample Name	SB01_0-2	SB01_5-7	SODUP01_022725	SB02_0-2	SB02_5-7	SB03_0-2	SB03_5-7	SB04_0-2	SB04_5-7	SB05_0-2	SODUP03_030325	SB05_5-7	SB06_0-2	SB06_5-7	SB07_0-2	SB07_5-7	SB08_0-2	SB08_5-7
			Sample Date	02/27/2025	02/27/2025	02/27/2025	02/27/2025	02/27/2025	02/27/2025	02/27/2025	02/27/2025	02/27/2025	03/03/2025	03/03/2025	03/03/2025	02/28/2025	02/28/2025	02/28/2025	02/28/2025	02/28/2025	02/28/2025
			Sample Depth	0-2	5-7	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Per- and Polyfluoroalkyl Substances																					
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	NS	mg/kg	<0.000691 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000871 U	NA	NA	NA
1H,1H,2H,2H-Perfluorodecane Sulfonic Acid (8:2FTS)	39108-34-4	NS	mg/kg	<0.000905 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000884 U	NA	NA	NA
1H,1H,2H,2H-Perfluorohexane Sulfonic Acid (4:2 FTS)	757124-72-4	NS	mg/kg	<0.000884 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000864 U	NA	NA	NA
1H,1H,2H,2H-Perfluorooctane Sulfonic Acid (6:2 FTS)	27619-97-2	NS	mg/kg	<0.000896 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000875 U	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic Acid (6:3 FTCA)	914637-49-3	NS	mg/kg	<0.00589 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00576 U	NA	NA	NA
3-Perfluoroheptyl Propanoic Acid (7:3 FTCA)	812-70-4	NS	mg/kg	<0.00589 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00576 U	NA	NA	NA
3-Perfluoropropyl Propanoic Acid (3:3 FTCA)	356-02-5	NS	mg/kg	<0.00118 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00115 U	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic Acid (ADONA)	919005-14-4	NS	mg/kg	<0.000891 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000871 U	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	NS	mg/kg	<0.000881 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000861 U	NA	NA	NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	NS	mg/kg	<0.000943 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000921 U	NA	NA	NA
N-ethyl Perfluorooctanesulfonamide (NEtFOSA)	4151-50-2	NS	mg/kg	<0.000236 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA
N-ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	mg/kg	<0.000236 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA
N-ethyl Perfluorooctanesulfonamidoethanol (NEtFOSE)	1691-99-2	NS	mg/kg	<0.00236 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0023 U	NA	NA	NA
N-methyl Perfluorooctanesulfonamide (NMeFOSA)	31506-32-8	NS	mg/kg	<0.000236 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA
N-methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	mg/kg	<0.000236 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA
N-methyl Perfluorooctanesulfonamidoethanol (NMeFOSE)	24448-09-7	NS	mg/kg	<0.00236 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0023 U	NA	NA	NA
Nonafluoro-3,6-dioxaheptanoic Acid (NFDHA)	151772-58-6	NS	mg/kg	<0.000471 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000461 U	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic Acid (PFEESA)	113507-82-7	NS	mg/kg	<0.000419 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00041 U	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	NS	mg/kg	<0.000471 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000461 U	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	NS	mg/kg	<0.000471 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000461 U	NA	NA	NA
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	mg/kg	<0.000209 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000204 U	NA	NA	NA
Perfluorobutanoic acid (PFBA)	375-22-4	NS	mg/kg	<0.000943 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000921 U	NA	NA	NA
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	mg/kg	<0.000227 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000222 U	NA	NA	NA
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	mg/kg	<0.000236 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	NS	mg/kg	<0.000229 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000223 U	NA	NA	NA
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	mg/kg	<0.000236 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	mg/kg	<0.000236 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	mg/kg	<0.000236 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	mg/kg	<0.000218 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000211 U	NA	NA	NA
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	mg/kg	0.000115 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0000786 J	NA	NA	NA
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	NS	mg/kg	<0.000226 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000221 U	NA	NA	NA
Perfluorononanoic Acid (PFNA)	375-95-1	NS	mg/kg	<0.000236 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA
Perfluorooctanesulfonamide (PFOSA)	754-91-6	NS	mg/kg	<0.000236 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.044	mg/kg	0.00072	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000743	NA	NA	NA
Perfluorooctanoic Acid (PFOA)	335-67-1	0.033	mg/kg	0.000427	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000425	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	mg/kg	0.000144 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000461 U	NA	NA	NA
Perfluoropentansulfonic Acid (PFPeS)	2706-91-4	NS	mg/kg	<0.000222 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.000216 U	NA	NA	NA
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	NS	mg/kg	<0.000236 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	mg/kg	<0.000236 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	mg/kg	<0.000236 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA
General Chemistry																					
Solids, Percent	SOLID	NS	Percent	84.5	83.1	49.6	82.4	84.7	89.2	77.3	90.2	89.1	91.2	90.3	55.3	89.6	87.5	86.8	86.4	87.5	85.6

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB09	SB09	SB10	SB10	SB10	SB11	SB11	SB12	SB12	SB13	SB13	SB14	SB14	SB15	SB15	SB16	SB16	SB17	SB17
			Sample Name	SB09_0-2	SB09_5-7	SB10_0-2	SB10_5-7	SODUP02_022825	SB11_0-2	SB11_5-7	SB12_0-2	SB12_5-7	SB13_0-2	SB13_5-7	SB14_0-2	SB14_5-7	SB15_0-2	SB15_5-7	SB16_0-2	SB16_5-7	SB17_0-2	SB17_5-7
			Sample Date	02/28/2025	02/28/2025	02/28/2025	02/28/2025	02/28/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025
			Sample Depth	0-2	5-7	0-2	5-7	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																						
1,1,1,2-Tetrachloroethane	630-20-6	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
1,1,1-Trichloroethane	71-55-6	100	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
1,1,2-Trichloroethane	79-00-5	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
1,1-Dichloroethane	75-34-3	26	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
1,1-Dichloroethene	75-35-4	100	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
1,2,3-Trichlorobenzene	87-61-6	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
1,2,3-Trichloropropane	96-18-4	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
1,2,4-Trichlorobenzene	120-82-1	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
1,2,4-Trimethylbenzene	95-63-6	52	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
1,2-Dichlorobenzene	95-50-1	100	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
1,2-Dichloroethane	107-06-2	3.1	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
1,2-Dichloropropane	78-87-5	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	52	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
1,3-Dichlorobenzene	541-73-1	49	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
1,4-Dichlorobenzene	106-46-7	13	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
2-Hexanone (MBK)	591-78-6	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Acetone	67-64-1	100	mg/kg	<0.0084 U	0.038	0.0097 J	0.031	0.032	<0.011 U	0.01	<0.0091 U	<0.0073 U	<0.01 U	<0.0095 U	<0.0072 U	<0.0073 U	<0.011 U	<0.0095 U	<0.014 U	<0.011 U	<0.0092 U	<0.011 U
Acrolein	107-02-8	NS	mg/kg	<0.0084 U	<0.016 U	<0.011 U	<0.014 U	<0.016 U	<0.011 U	<0.0088 U	<0.0091 U	<0.0073 U	<0.01 U	<0.0095 U	<0.0072 U	<0.0073 U	<0.011 U	<0.0095 U	<0.014 U	<0.011 U	<0.0092 U	<0.011 U
Acrylonitrile	107-13-1	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Benzene	71-43-2	4.8	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Bromochloromethane	74-97-5	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Bromodichloromethane	75-27-4	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Bromoform	75-25-2	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Bromomethane	74-83-9	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Carbon Disulfide	75-15-0	NS	mg/kg	<0.0042 U	0.015	<0.0057 U	0.006 J	0.0049 J	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Carbon Tetrachloride	56-23-5	2.4	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Chlorobenzene	108-90-7	100	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Chloroethane	75-00-3	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Chloroform	67-66-3	49	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Chloromethane	74-87-3	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Cis-1,2-Dichloroethene	156-59-2	100	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Cis-1,3-Dichloropropene	10061-01-5	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Cyclohexane	110-82-7	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Cymene	99-87-6	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Dibromochloromethane	124-48-1	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Dibromomethane	74-95-3	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Dichlorodifluoromethane	75-71-8	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Ethylbenzene	100-41-4	41	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Hexachlorobutadiene	87-68-3	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Isopropylbenzene (Cumene)	98-82-8	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
M,P-Xylene	179601-23-1	NS	mg/kg	<0.0084 U	<0.016 U	<0.011 U	<0.014 U	<0.016 U	<0.011 U	<0.0088 U	<0.0091 U	<0.0073 U	<0.01 U	<0.0095 U	<0.0072 U	<0.0073 U	<0.011 U	<0.0095 U	<0.014 U	<0.011 U	<0.0092 U	<0.011 U
Methyl Acetate	79-20-9	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	100	mg/kg	<0.0042 U	0.011	<0.0057 U	0.01	0.01	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Methylcyclohexane	108-87-2	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Methylene Chloride	75-09-2	100	mg/kg	<0.0084 U	<0.016 U	<0.011 U	<0.014 U	<0.016 U	<0.011 U	<0.0088 U	<0.0091 U	<0.0073 U	<0.01 U	<0.0095 U	<0.0072 U	<0.0073 U	<0.011 U	<0.0095 U	<0.014 U	<0.011 U	<0.0092 U	<0.011 U
n-Butylbenzene	104-51-8	100	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
n-Propylbenzene	103-65-1	100	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Sec-Butylbenzene	135-98-8	100	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Styrene	100-42-5	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
T-Butylbenzene	98-06-6	100	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Tert-Butyl Alcohol	75-65-0	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Tert-Butyl Methyl Ether	1634-04-4	100	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Tetrachloroethene (PCE)	127-18-4	19	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Toluene	108-88-3	100	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Total Xylenes	1330-20-7	100	mg/kg	<0.013 U	<0.023 U	<0.017 U	<0.021 U	<0.023 U	<0.016 U	<0.013 U	<0.014 U	<0.011 U	<0.015 U	<0.014 U	<0.011 U	<0.011 U	<0.016 U	<0.014 U	<0.021 U	<0.016 U	<0.014 U	<0.017 U
Trans-1,2-Dichloroethene	156-60-5	100	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Trans-1,3-Dichloropropene	10061-02-6	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Trichloroethene (TCE)	79-01-6	21	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Trichlorofluoromethane	75-69-4	NS	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U
Vinyl Chloride	75-01-4	0.9	mg/kg	<0.0042 U	<0.0078 U	<0.0057 U	<0.0071 U	<0.0078 U	<0.0053 U	<0.0044 U	<0.0045 U	<0.0037 U	<0.0052 U	<0.0047 U	<0.0036 U	<0.0036 U	<0.0053 U	<0.0047 U	<0.0071 U	<0.0054 U	<0.0046 U	<0.0056 U

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB09	SB09	SB10	SB10	SB10	SB11	SB11	SB12	SB12	SB13	SB13	SB14	SB14	SB15	SB15	SB16	SB16	SB17	SB17
			Sample Name	SB09_0-2	SB09_5-7	SB10_0-2	SB10_5-7	SODUP02_022825	SB11_0-2	SB11_5-7	SB12_0-2	SB12_5-7	SB13_0-2	SB13_5-7	SB14_0-2	SB14_5-7	SB15_0-2	SB15_5-7	SB16_0-2	SB16_5-7	SB17_0-2	SB17_5-7
			Sample Date	02/28/2025	02/28/2025	02/28/2025	02/28/2025	02/28/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025
			Sample Depth	0-2	5-7	0-2	5-7	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																						
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	mg/kg	<0.198 U	<0.309 U	<0.194 U	<0.319 U	<0.335 U	<0.189 U	<0.186 U	<0.193 U	<0.193 U	<0.189 U	<0.185 U	<0.182 U	<0.192 U	<0.193 U	<0.189 U	<0.18 U	<0.182 U	<0.182 U	<0.179 U
1,2-Diphenylhydrazine	122-66-7	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
1,4-Dioxane (P-Dioxane)	123-91-1	13	mg/kg	<0.0198 U	<0.0198 U	<0.019 U	<0.019 U	<0.0198 U	<0.0189 U	<0.02 U	<0.0189 U	<0.0183 U	<0.0192 U	<0.019 U	<0.0194 U	<0.0194 U	<0.0192 U	<0.019 U	<0.0185 U	<0.0189 U	<0.0183 U	<0.0185 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	mg/kg	<0.198 U	<0.309 U	<0.194 U	<0.319 U	<0.335 U	<0.189 U	<0.186 U	<0.193 U	<0.193 U	<0.189 U	<0.185 U	<0.182 U	<0.192 U	<0.193 U	<0.189 U	<0.18 U	<0.182 U	<0.182 U	<0.179 U
2,4,5-Trichlorophenol	95-95-4	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
2,4,6-Trichlorophenol	88-06-2	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
2,4-Dichlorophenol	120-83-2	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
2,4-Dimethylphenol	105-67-9	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
2,4-Dinitrophenol	51-28-5	NS	mg/kg	<0.198 U	<0.309 U	<0.194 U	<0.319 U	<0.335 U	<0.189 U	<0.186 U	<0.193 U	<0.193 U	<0.189 U	<0.185 U	<0.182 U	<0.192 U	<0.193 U	<0.189 U	<0.18 U	<0.182 U	<0.182 U	<0.179 U
2,4-Dinitrotoluene	121-14-2	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	0.955 D	<0.0913 U	<0.0898 U
2,6-Dinitrotoluene	606-20-2	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	1.34 D	<0.0913 U	<0.0898 U
2-Chloronaphthalene	91-58-7	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
2-Chlorophenol	95-57-8	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
2-Methylnaphthalene	91-57-6	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
2-Methylphenol (o-Cresol)	95-48-7	100	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
2-Nitroaniline	88-74-4	NS	mg/kg	<0.198 U	<0.309 U	<0.194 U	<0.319 U	<0.335 U	<0.189 U	<0.186 U	<0.193 U	<0.193 U	<0.189 U	<0.185 U	<0.182 U	<0.192 U	<0.193 U	<0.189 U	<0.18 U	<0.182 U	<0.182 U	<0.179 U
2-Nitrophenol	88-75-5	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	100	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
3,3'-Dichlorobenzidine	91-94-1	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
3-Nitroaniline	99-09-2	NS	mg/kg	<0.198 U	<0.309 U	<0.194 U	<0.319 U	<0.335 U	<0.189 U	<0.186 U	<0.193 U	<0.193 U	<0.189 U	<0.185 U	<0.182 U	<0.192 U	<0.193 U	<0.189 U	<0.18 U	<0.182 U	<0.182 U	<0.179 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	mg/kg	<0.198 U	<0.309 U	<0.194 U	<0.319 U	<0.335 U	<0.189 U	<0.186 U	<0.193 U	<0.193 U	<0.189 U	<0.185 U	<0.182 U	<0.192 U	<0.193 U	<0.189 U	<0.18 U	<0.182 U	<0.182 U	<0.179 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
4-Chloro-3-Methylphenol	59-50-7	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
4-Chloroaniline	106-47-8	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
4-Nitroaniline	100-01-6	NS	mg/kg	<0.198 U	<0.309 U	<0.194 U	<0.319 U	<0.335 U	<0.189 U	<0.186 U	<0.193 U	<0.193 U	<0.189 U	<0.185 U	<0.182 U	<0.192 U	<0.193 U	<0.189 U	<0.18 U	<0.182 U	<0.182 U	<0.179 U
4-Nitrophenol	100-02-7	NS	mg/kg	<0.198 U	<0.309 U	<0.194 U	<0.319 U	<0.335 U	<0.189 U	<0.186 U	<0.193 U	<0.193 U	<0.189 U	<0.185 U	<0.182 U	<0.192 U	<0.193 U	<0.189 U	<0.18 U	<0.182 U	<0.182 U	<0.179 U
Acenaphthene	83-32-9	100	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Acenaphthylene	208-96-8	100	mg/kg	0.133 D	<0.155 U	0.0753 JD	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Acetophenone	98-86-2	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	mg/kg	<0.398 U	<0.62 U	<0.389 U	<0.64 U	<0.672 U	<0.38 U	<0.373 U	<0.386 U	<0.387 U	<0.378 U	<0.371 U	<0.364 U	<0.384 U	<0.387 U	<0.379 U	<0.362 U	<0.364 U	<0.366 U	<0.36 U
Anthracene	120-12-7	100	mg/kg	0.0683 JD	0.0841 JD	0.144 D	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Atrazine	1912-24-9	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Benzaldehyde	100-52-7	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Benzidine	92-87-5	NS	mg/kg	<0.398 U	<0.62 U	<0.389 U	<0.64 U	<0.672 U	<0.38 U	<0.373 U	<0.386 U	<0.387 U	<0.378 U	<0.371 U	<0.364 U	<0.384 U	<0.387 U	<0.379 U	<0.362 U	<0.364 U	<0.366 U	<0.36 U
Benzo(a)anthracene	56-55-3	1	mg/kg	0.28 D	0.161 D	0.498 D	<0.16 U	0.109 JD	0.0804 JD	<0.0931 U	0.084 JD	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Benzo(a)pyrene	50-32-8	1	mg/kg	0.187 D	0.11 JD	0.334 D	<0.16 U	0.199 D	0.0736 JD	<0.0931 U	0.0693 JD	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Benzo(b)fluoranthene	205-99-2	1	mg/kg	0.32 D	<0.155 U	0.353 D	<0.16 U	0.0859 JD	0.0834 JD	<0.0931 U	0.0817 JD	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	0.0548 JD	<0.0909 U	<0.0913 U	<0.0898 U
Benzo(g,h,i)Perylene	191-24-2	100	mg/kg	0.123 D	<0.155 U	0.19 D	<0.16 U	0.0885 JD	0.0508 JD	<0.0931 U	0.0524 JD	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Benzo(k)fluoranthene	207-08-9	3.9	mg/kg	0.181 D	<0.155 U	0.344 D	<0.16 U	<0.168 U	0.0736 JD	<0.0931 U	0.0686 JD	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Benzoic Acid	65-85-0	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Benzyl Alcohol	100-51-6	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Benzyl Butyl Phthalate	85-68-7	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Biphenyl (Diphenyl)	92-52-4	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Bis(2-chloroethoxy) methane	111-91-1	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	0.0979 JD	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Caprolactam	105-60-2	NS	mg/kg	<0.198 U	<0.309 U	<0.194 U	<0.319 U	<0.335 U	<0.189 U	<0.186 U	<0.193 U	<0.193 U	<0.189 U	<0.185 U	<0.182 U	<0.192 U	<0.193 U	<0.189 U	<0.18 U	<0.182 U	<0.182 U	<0.179 U
Carbazole	86-74-8	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Chrysene	218-01-9	3.9	mg/kg	0.275 D	0.158 D	0.521 D	<0.16 U	0.141 JD	0.102 D	<0.0931 U	0.102 D	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Dibenz(a,h)anthracene	53-70-3	0.33	mg/kg	<0.0993 U	<0.155 U	0.066 JD	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Dibenzofuran	132-64-9	59	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Dibutyl phthalate	84-74-2	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Diethyl phthalate	84-66-2	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Dimethyl phthalate	131-11-3	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	0.39 D	<0.0913 U	<0.0898 U
Dioctyl phthalate	117-84-0	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	0.0561 JD	<0.0931 U	<0.0964 U	0.0587 JD	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Diphenylamine	122-39-4	NS	mg/kg	<0.198 U	<0.309 U	<0.194 U	<0.319 U	<0.335 U	<0.189 U	<0.186 U	<0.193 U	<0.193 U	<0.189 U	<0.185 U	<0.182 U	<0.192 U	<0.193 U	<0.189 U	<0.18 U	<0.182 U	<0.182 U	<0.179 U
Fluoranthene	206-44-0	100	mg/kg	0.403 D	0.313 D	1.06 D	0.106 JD	0.119 JD	0.148 D	<0.0931 U	0.156 D	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	0.0642 JD	<0.0909 U	<0.0913 U	<0.0898 U
Fluorene	86-73-7	100	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Hexachlorobenzene	118-74-1	1.2	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	0.0923 D	<0.0913 U	<0.0898 U
Hexachlorobutadiene	87-68-3	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Hexachlorocyclopentadiene	77-47-4	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Hexachloroethane	67-72-1	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	1.03 D	<0.0913 U	<0.0898 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	mg/kg	0.141 D	<0.155 U	0.219 D	<0.16 U	0.106 JD	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Isophorone	78-59-1	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	0.374 D	<0.0913 U	<0.0898 U
Naphthalene	91-20-3	100	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Nitrobenzene	98-95-3	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
n-Nitrosodimethylamine	62-75-9	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	0.123 D	<0.0913 U	<0.0898 U
n-Nitrosodiphenylamine	86-30-6	NS	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Pentachlorophenol	87-86-5	6.7	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Phenanthrene	85-01-8	100	mg/kg	0.141 D	0.217 D	0.373 D	<0.16 U	<0.168 U	0.0622 JD	<0.0931 U	0.0624 JD	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Phenol	108-95-2	100	mg/kg	<0.0993 U	<0.155 U	<0.0971 U	<0.16 U	<0.168 U	<0.0949 U	<0.0931 U	<0.0964 U	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	<0.0903 U	<0.0909 U	<0.0913 U	<0.0898 U
Pyrene	129-00-0	100	mg/kg	0.356 D	0.239 D	0.773 D	<0.16 U	0.13 JD	0.152 D	<0.0931 U	0.149 D	<0.0966 U	<0.0945 U	<0.0926 U	<0.0909 U	<0.0959 U	<0.0965 U	<0.0946 U	0.0534 JD	<0.0909 U	<0.0913 U	<0.0898 U
Pyridine	110-86-1	NS	mg/kg	<0.398 U	<0.62 U	<0.389 U	<0.64 U	<0.672 U	<0.38 U	<0.373 U	<0.386 U	<0.387 U	<0.378 U	<0.371 U	<0.364 U	<0.384 U	<0.387 U	<0.379 U	<0.362 U	<0.364 U	<0.366 U	<0.36 U

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB09	SB09	SB10	SB10	SB10	SB11	SB11	SB12	SB12	SB13	SB13	SB14	SB14	SB15	SB15	SB16	SB16	SB17	SB17
			Sample Name	SB09_0-2	SB09_5-7	SB10_0-2	SB10_5-7	SODUP02_022825	SB11_0-2	SB11_5-7	SB12_0-2	SB12_5-7	SB13_0-2	SB13_5-7	SB14_0-2	SB14_5-7	SB15_0-2	SB15_5-7	SB16_0-2	SB16_5-7	SB17_0-2	SB17_5-7
			Sample Date	02/28/2025	02/28/2025	02/28/2025	02/28/2025	02/28/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025
			Sample Depth	0-2	5-7	0-2	5-7	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides																						
4,4'-DDD	72-54-8	13	mg/kg	<0.00197 U	<0.00307 U	<0.00193 U	<0.00317 U	<0.00331 U	<0.00187 U	<0.00184 U	<0.0019 U	<0.0019 U	<0.00186 U	<0.00183 U	<0.00178 U	<0.00188 U	<0.00189 U	<0.00185 U	<0.00177 U	<0.00179 U	<0.00179 U	<0.00177 U
4,4'-DDE	72-55-9	8.9	mg/kg	<0.00197 U	<0.00307 U	<0.00193 U	<0.00317 U	<0.00331 U	<0.00187 U	<0.00184 U	<0.0019 U	<0.0019 U	<0.00186 U	<0.00183 U	<0.00178 U	<0.00188 U	<0.00189 U	<0.00185 U	<0.00177 U	<0.00179 U	<0.00179 U	<0.00177 U
4,4'-DDT	50-29-3	7.9	mg/kg	<0.00197 U	<0.00307 U	<0.00193 U	<0.00317 U	<0.00331 U	<0.00187 U	<0.00184 U	<0.0019 U	<0.0019 U	<0.00186 U	<0.00183 U	<0.00178 U	<0.00188 U	<0.00189 U	<0.00185 U	<0.00177 U	<0.00179 U	<0.00179 U	<0.00177 U
Aldrin	309-00-2	0.097	mg/kg	<0.00197 U	<0.00307 U	<0.00193 U	<0.00317 U	<0.00331 U	<0.00187 U	<0.00184 U	<0.0019 U	<0.0019 U	<0.00186 U	<0.00183 U	<0.00178 U	<0.00188 U	<0.00189 U	<0.00185 U	<0.00177 U	<0.00179 U	<0.00179 U	<0.00177 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.48	mg/kg	<0.00197 U	<0.00307 U	<0.00193 U	<0.00317 U	<0.00331 U	<0.00187 U	<0.00184 U	<0.0019 U	<0.0019 U	<0.00186 U	<0.00183 U	<0.00178 U	<0.00188 U	<0.00189 U	<0.00185 U	<0.00177 U	<0.00179 U	<0.00179 U	<0.00177 U
Alpha Chlordane	5103-71-9	4.2	mg/kg	<0.00197 U	<0.00307 U	0.00864 D	<0.00317 U	<0.00331 U	<0.00187 U	<0.00184 U	<0.0019 U	<0.0019 U	<0.00186 U	<0.00183 U	<0.00178 U	<0.00188 U	<0.00189 U	<0.00185 U	<0.00177 U	<0.00179 U	<0.00179 U	<0.00177 U
Alpha Endosulfan	959-98-8	24	mg/kg	<0.00197 U	<0.00307 U	<0.00193 U	<0.00317 U	<0.00331 U	<0.00187 U	<0.00184 U	<0.0019 U	<0.0019 U	<0.00186 U	<0.00183 U	<0.00178 U	<0.00188 U	<0.00189 U	<0.00185 U	<0.00177 U	<0.00179 U	<0.00179 U	<0.00177 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.36	mg/kg	<0.00197 U	<0.00307 U	<0.00193 U	<0.00317 U	<0.00331 U	<0.00187 U	<0.00184 U	<0.0019 U	<0.0019 U	<0.00186 U	<0.00183 U	<0.00178 U	<0.00188 U	<0.00189 U	<0.00185 U	<0.00177 U	<0.00179 U	<0.00179 U	<0.00177 U
Beta Endosulfan	33213-65-9	24	mg/kg	<0.00197 U	<0.00307 U	<0.00193 U	<0.00317 U	<0.00331 U	<0.00187 U	<0.00184 U	<0.0019 U	<0.0019 U	<0.00186 U	<0.00183 U	<0.00178 U	<0.00188 U	<0.00189 U	<0.00185 U	<0.00177 U	<0.00179 U	<0.00179 U	<0.00177 U
Chlordane (alpha and gamma)	57-74-9	NS	mg/kg	<0.0394 U	<0.0614 U	<0.0385 U	<0.0634 U	<0.0662 U	<0.0374 U	<0.0368 U	<0.038 U	<0.0381 U	<0.0373 U	<0.0365 U	<0.0356 U	<0.0376 U	<0.0378 U	<0.0371 U	<0.0355 U	<0.0357 U	<0.0359 U	<0.0353 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	100	mg/kg	<0.00197 U	<0.00307 U	<0.00193 U	<0.00317 U	<0.00331 U	<0.00187 U	<0.00184 U	<0.0019 U	<0.0019 U	<0.00186 U	<0.00183 U	<0.00178 U	<0.00188 U	<0.00189 U	<0.00185 U	<0.00177 U	<0.00179 U	<0.00179 U	<0.00177 U
Dieldrin	60-57-1	0.2	mg/kg	<0.00197 U	<0.00307 U	<0.00193 U	<0.00317 U	<0.00331 U	<0.00187 U	<0.00184 U	<0.0019 U	<0.0019 U	<0.00186 U	<0.00183 U	<0.00178 U	<0.00188 U	<0.00189 U	<0.00185 U	<0.00177 U	<0.00179 U	<0.00179 U	<0.00177 U
Endosulfan Sulfate	1031-07-8	24	mg/kg	<0.00197 U	<0.00307 U	<0.00193 U	<0.00317 U	<0.00331 U	<0.00187 U	<0.00184 U	<0.0019 U	<0.0019 U	<0.00186 U	<0.00183 U	<0.00178 U	<0.00188 U	<0.00189 U	<0.00185 U	<0.00177 U	<0.00179 U	<0.00179 U	<0.00177 U
Endrin	72-20-8	11	mg/kg	<0.00197 U	<0.00307 U	<0.00193 U	<0.00317 U	<0.00331 U	<0.00187 U	<0.00184 U	<0.0019 U	<0.0019 U	<0.00186 U	<0.00183 U	<0.00178 U	<0.00188 U	<0.00189 U	<0.00185 U	<0.00177 U	<0.00179 U	<0.00179 U	<0.00177 U
Endrin Aldehyde	7421-93-4	NS	mg/kg	<0.00197 U	<0.00307 U	<0.00193 U	<0.00317 U	<0.00331 U	<0.00187 U	<0.00184 U	<0.0019 U	<0.0019 U	<0.00186 U	<0.00183 U	<0.00178 U	<0.00188 U	<0.00189 U	<0.00185 U	<0.00177 U	<0.00179 U	<0.00179 U	<0.00177 U
Endrin Ketone	53494-70-5	NS	mg/kg	<0.00197 U	<0.00307 U	<0.00193 U	<0.00317 U	<0.00331 U	<0.00187 U	<0.00184 U	<0.0019 U	<0.0019 U	<0.00186 U	<0.00183 U	<0.00178 U	<0.00188 U	<0.00189 U	<0.00185 U	<0.00177 U	<0.00179 U	<0.00179 U	<0.00177 U
Gamma Bhc (Lindane)	58-89-9	1.3	mg/kg	<0.00197 U	<0.00307 U	<0.00193 U	<0.00317 U	<0.00331 U	<0.00187 U	<0.00184 U	<0.0019 U	<0.0019 U	<0.00186 U	<0.00183 U	<0.00178 U	<0.00188 U	<0.00189 U	<0.00185 U	<0.00177 U	<0.00179 U	<0.00179 U	<0.00177 U
Gamma-Chlordane	5566-34-7	NS	mg/kg	<0.00197 U	<0.00307 U	0.00815 D	<0.00317 U	<0.00331 U	<0.00187 U	<0.00184 U	<0.0019 U	<0.0019 U	<0.00186 U	<0.00183 U	<0.00178 U	<0.00188 U	<0.00189 U	<0.00185 U	<0.00177 U	<0.00179 U	<0.00179 U	<0.00177 U
Heptachlor	76-44-8	2.1	mg/kg	<0.00197 U	<0.00307 U	<0.00193 U	<0.00317 U	<0.00331 U	<0.00187 U	<0.00184 U	<0.0019 U	<0.0019 U	<0.00186 U	<0.00183 U	<0.00178 U	<0.00188 U	<0.00189 U	<0.00185 U	<0.00177 U	<0.00179 U	<0.00179 U	<0.00177 U
Heptachlor Epoxide	1024-57-3	NS	mg/kg	<0.00197 U	<0.00307 U	<0.00193 U	<0.00317 U	<0.00331 U	<0.00187 U	<0.00184 U	<0.0019 U	<0.0019 U	<0.00186 U	<0.00183 U	<0.00178 U	<0.00188 U	<0.00189 U	<0.00185 U	<0.00177 U	<0.00179 U	<0.00179 U	<0.00177 U
Methoxychlor	72-43-5	NS	mg/kg	<0.00197 U	<0.00307 U	<0.00193 U	<0.00317 U	<0.00331 U	<0.00187 U	<0.00184 U	<0.0019 U	<0.0019 U	<0.00186 U	<0.00183 U	<0.00178 U	<0.00188 U	<0.00189 U	<0.00185 U	<0.00177 U	<0.00179 U	<0.00179 U	<0.00177 U
Toxaphene	8001-35-2	NS	mg/kg	<0.197 U	<0.307 U	<0.193 U	<0.317 U	<0.331 U	<0.187 U	<0.184 U	<0.19 U	<0.19 U	<0.186 U	<0.183 U	<0.178 U	<0.188 U	<0.189 U	<0.185 U	<0.177 U	<0.179 U	<0.179 U	<0.177 U
Herbicides																						
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	mg/kg	<0.024 U	<0.037 U	<0.0232 U	<0.0385 U	<0.0398 U	<0.0225 U	<0.0221 U	<0.0229 U	<0.0229 U	<0.0228 U	<0.0224 U	<0.0218 U	<0.023 U	<0.023 U	<0.0227 U	<0.0215 U	<0.0217 U	<0.0215 U	<0.0214 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	mg/kg	<0.024 U	<0.037 U	<0.0232 U	<0.0385 U	<0.0398 U	<0.0225 U	<0.0221 U	<0.0229 U	<0.0229 U	<0.0228 U	<0.0224 U	<0.0218 U	<0.023 U	<0.023 U	<0.0227 U	<0.0215 U	<0.0217 U	<0.0215 U	<0.0214 U
Silvex (2,4,5-Tp)	93-72-1	100	mg/kg	<0.024 U	<0.037 U	<0.0232 U	<0.0385 U	<0.0398 U	<0.0225 U	<0.0221 U	<0.0229 U	<0.0229 U	<0.0228 U	<0.0224 U	<0.0218 U	<0.023 U	<0.023 U	<0.0227 U	<0.0215 U	<0.0217 U	<0.0215 U	<0.0214 U
Polychlorinated Biphenyl																						
PCB-1016 (Aroclor 1016)	12674-11-2	NS	mg/kg	<0.0199 U	<0.031 U	<0.0195 U	<0.032 U	<0.0334 U	<0.019 U	<0.0187 U	<0.0193 U	<0.0194 U	<0.0189 U	<0.0186 U	<0.0181 U	<0.0191 U	<0.0192 U	<0.0188 U	<0.0179 U	<0.018 U	<0.0181 U	<0.0178 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	mg/kg	<0.0199 U	<0.031 U	<0.0195 U	<0.032 U	<0.0334 U	<0.019 U	<0.0187 U	<0.0193 U	<0.0194 U	<0.0189 U	<0.0186 U	<0.0181 U	<0.0191 U	<0.0192 U	<0.0188 U	<0.0179 U	<0.018 U	<0.0181 U	<0.0178 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	mg/kg	<0.0199 U	<0.031 U	<0.0195 U	<0.032 U	<0.0334 U	<0.019 U	<0.0187 U	<0.0193 U	<0.0194 U	<0.0189 U	<0.0186 U	<0.0181 U	<0.0191 U	<0.0192 U	<0.0188 U	<0.0179 U	<0.018 U	<0.0181 U	<0.0178 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	mg/kg	<0.0199 U	<0.031 U	<0.0195 U	<0.032 U	<0.0334 U	<0.019 U	<0.0187 U	<0.0193 U	<0.0194 U	<0.0189 U	<0.0186 U	<0.0181 U	<0.0191 U	<0.0192 U	<0.0188 U	<0.0179 U	<0.018 U	<0.0181 U	<0.0178 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	mg/kg	<0.0199 U	<0.031 U	<0.0195 U	<0.032 U	<0.0334 U	<0.019 U	<0.0187 U	<0.0193 U	<0.0194 U	<0.0189 U	<0.0186 U	<0.0181 U	<0.0191 U	<0.0192 U	<0.0188 U	<0.0179 U	<0.018 U	<0.0181 U	<0.0178 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	mg/kg	<0.0199 U	<0.031 U	<0.0195 U	<0.032 U	<0.0334 U	<0.019 U	<0.0187 U	<0.0193 U	<0.0194 U	<0.0189 U	<0.0186 U	<0.0181 U	<0.0191 U	<0.0192 U	<0.0188 U	<0.0179 U	<0.018 U	<0.0181 U	<0.0178 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	mg/kg	<0.0199 U	<0.031 U	<0.0195 U	<0.032 U	<0.0334 U	<0.019 U	<0.0187 U	<0.0193 U	<0.0194 U	<0.0189 U	<0.0186 U	<0.0181 U	<0.0191 U	<0.0192 U	<0.0188 U	<0.0179 U	<0.018 U	<0.0181 U	<0.0178 U
Total PCBs	1336-36-3	1	mg/kg	<0.0199 U	<0.031 U	<0.0195 U	<0.032 U	<0.0334 U	<0.019 U	<0.0187 U	<0.0193 U	<0.0194 U	<0.0189 U	<0.0186 U	<0.0181 U	<0.0191 U	<0.0192 U	<0.0188 U	<0.0179 U	<0.018 U	<0.0181 U	<0.0178 U
Metals																						
Aluminum	7429-90-5	NS	mg/kg	16,500	22,400	14,800	24,200	24,400	13,400	4,620	15,700	19,200	12,600	8,220	11,100	5,860	11,800	6,150	7,700	9,600	13,000	12,400
Antimony	7440-36-0	NS	mg/kg	<2.51 U	<3.9 U	<2.45 U	<4.03 U	<4.22 U	<2.39 U	<2.35 U	<2.43 U	<2.44 U	<2.38 U	<2.34 U	<2.28 U	<2.4 U	<2.42 U	<2.37 U	<2.27 U	<2.29 U	<2.3 U	<2.26 U
Arsenic	7440-38-2	**16**	mg/kg	4.41	5.92	5.47	8.77	**21.9**	3.6	<1.41 U	5.09	2.7	3.06	<1.4 U	5.31	<1.44 U	4.37	<1.42 U	4.21	1.67	3.38	4.03
Barium	7440-39-3	**400**	mg/kg	97.3	109	106	104	153	82.5	21.8	79.1	59.3	77.8	57	67.1	51.8	65.6	41.5	86	134	63.7	57.8
Beryllium	7440-41-7	72	mg/kg	0.559	0.711	0.513	0.978	1.15	0.451	0.166	0.566	0.397	0.388	0.199	0.427	0.15	0.414	0.229	0.297	0.364	0.388	0.389
Cadmium	7440-43-9	4.3	mg/kg	<0.301 U	<0.469 U	0.333	<0.483 U	0.928	<0.287 U	<0.282 U	<0.292 U	<0.292 U	<0.286 U	<0.28 U	<0.273 U	<0.288 U	<0.29 U	<0.285 U	<0.272 U	<0.274 U	<0.275 U	<0.271 U
Calcium	7440-70-2	NS	mg/kg	1,610	5,500	8,130	3,220	2,930	3,100	915	720	583	1,250	1,460	1,040	1,550	1,360	681	13,900	919	868	741
Chromium, Hexavalent	18540-29-9	110	mg/kg	<0.601 U	<0.937 U	<0.588 U	<0.967 U	<1.01 U	<0.574 U	<0.564 U	<0.584 U	<0.585 U	<0.572 U	<0.561 U	<0.547 U	<0.577 U	<0.581 U	<0.569 U	0.583	<0.549 U	<0.551 U	<0.542 U
Chromium, Total	7440-47-3	110	mg/kg	39.7	66.4	30.7	63.9	87.5	27.6	10.7	24.6	55	37.2	31.3	25.4	26	27.9	21.1	19.3	28.9	32.1	30.2
Chromium, Trivalent	16065-83-1	180	mg/kg	39.7	66.4	30.7	63.9	87.5	27.6	10.7	24.6	55	37.2	31.3	25.4	26	27.9	21.1	18.7	28.9	32.1	30.2
Cobalt	7440-48-4	NS	mg/kg	12.6	19.4	9.86	17.1	15	9.61	3.42	9.57	15.7	10.5	8.89	7.43	8.75	7.99	6.2	6.73	9.45	10.2	8.4
Copper	7440-50-8	270	mg/kg	26.2	45.8	40	55.6	200	19.4	7.2	21.6	26.9	25.1	22.4	27	21.9	24.5	10.5	32.3	16.2	21.7	19.8
Cyanide	57-12-5	27	mg/kg	<0.601 U	<0.937 U	<0.588 U	<0.967 U	<1.01 U	<0.574 U	<0.564 U	<0.584 U	<0.585 U	<0.572 U	<0.561 U	<0.547 U	<0.577 U	<0.581 U	<0.569 U	<0.545 U	<0.549 U	<0.551 U	<0.542 U
Iron	7439-89-6	NS	mg/kg	21,100	27,600	19,600	33,900	42,100	18,000	6,570	18,000	27,000	17,600	13,600	14,100	11,400	17,300	10,800	15,300	18,000	18,400	19,000
Lead	7439-92-1	**400**	mg/kg	38.4	31.7	88.5	64.4	267	20.9	2.72	53.7	4.83	16.9	1.54	64.3	1.3	33	1.67	51.3	3.8	5.9	10.9
Magnesium	7439-95-4	NS	mg/kg	4,670	7,090	6,250	8,500	9,560	3,170	1,140	3,160	5,650	3,950	3,110	2,520	2,860	3,140	2,470	4,570	3,040	3,080	2,970
Manganese	7439-96-5	2000	mg/kg	377	451	381	488	591	419	142	384	326	316	296	385	486	306	166	239	767	309	278
Mercury	7439-97-6	**0.81**	mg/kg	0.0907	0.379	0.107	**2.5**	**3.29**	0.0533	<0.0338 U	0.124	<0.0351 U	<0.0343 U	<0.0336 U	<0.0328 U	<0.0346 U	0.0416	<0.0342 U	0.0631	<0.0329 U	<0.0331 U	<0.0325 U
Nickel	7440-02-0	310	mg/kg	54.8	81.5	22.7	62.3	42.2	29.5	8.75	20.2	62.2	38.3	49.5	26.6	46.5	23.9	39.4	15.2	42.8	44.5	31.6
Potassium	7440-09-7	NS	mg/kg	1,660	3,580	2,250	4,930	5,630	1,410	591	879	2,770	1,980	1,510	1,060	1,340	1,110	1,670	1,710	1,900	1,430	1,170
Selenium	7782-49-2	180	mg/kg	<2.51 U	<3.9 U	<2.45 U	<4.03 U	<4.22 U	<2.39 U	<2.35 U	<2.43 U	<2.44 U	<2.38 U	<2.34 U	<2.28 U	<2.4 U	<2.42 U	<2.37 U	<2.27 U	<2.29 U	<2.3 U	<2.26 U
Silver	7440-22-4	180	mg/kg	<0.505 U	<0.787 U	<0.494 U	<0.812 U	2.46	<0.483 U	<0.474 U	<0.49 U	<0.491 U	<0.48 U	<0.471 U	<0.459 U	<0.484 U	<0.488 U	<0.478 U	<0.458 U	<0.461 U	<0.463 U	<0.455 U
Sodium	7440-23-5	NS	mg/kg	1,230	2,040	311	2,360	2,980	297	164	88.6	195	111	169	129	208	224	201	473	202	196	210
Thallium	7440-28-0	NS	mg/kg	<2.01 U	<3.13 U	<1.96 U	<3.23 U	<3.38 U	<1.92 U	<1.88 U	<1.95 U	<1.95 U	<1.91 U	<1.87 U	<1.83 U	<1.93 U	<1.94 U	<1.9 U	<1.82 U	<1.83 U	<1.84 U	<1.81 U
Vanadium	7440-62-2	NS	mg/kg	36.2	54.1	39.2	55.5	57.1	31.5	11.7	34.3	47.3	34	29.3	33.4	24	30.9	21.1	23.6	35.6	31.4	32.8
Zinc	7440-66-6	10000	mg/kg	59.6	77.5	105	114	302	39.9	11.6	68.9	36.5	42.1	17.2	73.8	17.2	84.8	18.5	80.6	27.9	28.4	30.6

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB09	SB09	SB10	SB10	SB10	SB11	SB11	SB12	SB12	SB13	SB13	SB14	SB14	SB15	SB15	SB16	SB16	SB17	SB17
			Sample Name	SB09_0-2	SB09_5-7	SB10_0-2	SB10_5-7	SODUP02_022825	SB11_0-2	SB11_5-7	SB12_0-2	SB12_5-7	SB13_0-2	SB13_5-7	SB14_0-2	SB14_5-7	SB15_0-2	SB15_5-7	SB16_0-2	SB16_5-7	SB17_0-2	SB17_5-7
			Sample Date	02/28/2025	02/28/2025	02/28/2025	02/28/2025	02/28/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/03/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025
			Sample Depth	0-2	5-7	0-2	5-7	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Per- and Polyfluoroalkyl Substances																						
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	NS	mg/kg	NA	NA	NA	<0.00145 U	<0.00153 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.000869 U	NA	NA	NA	NA	NA
1H,1H,2H,2H-Perfluorodecane Sulfonic Acid (8:2FTS)	39108-34-4	NS	mg/kg	NA	NA	NA	<0.00147 U	<0.00155 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.000883 U	NA	NA	NA	NA	NA
1H,1H,2H,2H-Perfluorohexane Sulfonic Acid (4:2 FTS)	757124-72-4	NS	mg/kg	NA	NA	NA	<0.00144 U	<0.00151 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.000862 U	NA	NA	NA	NA	NA
1H,1H,2H,2H-Perfluorooctane Sulfonic Acid (6:2 FTS)	27619-97-2	NS	mg/kg	NA	NA	NA	<0.00146 U	<0.00153 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.000874 U	NA	NA	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3 FTCA)	914637-49-3	NS	mg/kg	NA	NA	NA	<0.00959 U	<0.0101 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00575 U	NA	NA	NA	NA	NA
3-Perfluoroheptyl Propanoic Acid (7:3 FTCA)	812-70-4	NS	mg/kg	NA	NA	NA	<0.00959 U	<0.0101 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00575 U	NA	NA	NA	NA	NA
3-Perfluoropropyl Propanoic Acid (3:3 FTCA)	356-02-5	NS	mg/kg	NA	NA	NA	<0.00192 U	<0.00202 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00115 U	NA	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic Acid (ADONA)	919005-14-4	NS	mg/kg	NA	NA	NA	<0.00145 U	<0.00153 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.000869 U	NA	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	NS	mg/kg	NA	NA	NA	<0.00144 U	<0.00151 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00086 U	NA	NA	NA	NA	NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	NS	mg/kg	NA	NA	NA	<0.00153 U	<0.00161 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00092 U	NA	NA	NA	NA	NA
N-ethyl Perfluorooctanesulfonamide (NEtFOSA)	4151-50-2	NS	mg/kg	NA	NA	NA	<0.000384 U	<0.000403 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA	NA	NA
N-ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	mg/kg	NA	NA	NA	<0.000384 U	<0.000403 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA	NA	NA
N-ethyl Perfluorooctanesulfonamidoethanol (NEtFOSE)	1691-99-2	NS	mg/kg	NA	NA	NA	<0.00384 U	<0.00403 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.0023 U	NA	NA	NA	NA	NA
N-methyl Perfluorooctanesulfonamide (NMeFOSA)	31506-32-8	NS	mg/kg	NA	NA	NA	<0.000384 U	<0.000403 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA	NA	NA
N-methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	mg/kg	NA	NA	NA	<0.000384 U	<0.000403 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA	NA	NA
N-methyl Perfluorooctanesulfonamidoethanol (NMeFOSE)	24448-09-7	NS	mg/kg	NA	NA	NA	<0.00384 U	<0.00403 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.0023 U	NA	NA	NA	NA	NA
Nonafluoro-3,6-dioxaheptanoic Acid (NFDHA)	151772-58-6	NS	mg/kg	NA	NA	NA	<0.000767 U	<0.000807 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00046 U	NA	NA	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic Acid (PFEESA)	113507-82-7	NS	mg/kg	NA	NA	NA	<0.000683 U	<0.000718 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.000409 U	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	NS	mg/kg	NA	NA	NA	<0.000767 U	<0.000807 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00046 U	NA	NA	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	NS	mg/kg	NA	NA	NA	<0.000767 U	<0.000807 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00046 U	NA	NA	NA	NA	NA
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	mg/kg	NA	NA	NA	<0.00034 U	<0.000357 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.000204 U	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	375-22-4	NS	mg/kg	NA	NA	NA	<0.00153 U	0.00079 J	NA	NA	NA	NA	NA	NA	NA	NA	0.000145 J	NA	NA	NA	NA	NA
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	mg/kg	NA	NA	NA	<0.00037 U	<0.000389 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.000222 U	NA	NA	NA	NA	NA
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	mg/kg	NA	NA	NA	<0.000384 U	<0.000403 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA	NA	NA
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	NS	mg/kg	NA	NA	NA	<0.000372 U	<0.000391 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.000223 U	NA	NA	NA	NA	NA
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	mg/kg	NA	NA	NA	<0.000384 U	<0.000403 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA	NA	NA
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	mg/kg	NA	NA	NA	<0.000384 U	<0.000403 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	mg/kg	NA	NA	NA	<0.000384 U	<0.000403 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA	NA	NA
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	mg/kg	NA	NA	NA	<0.000351 U	<0.000369 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00021 U	NA	NA	NA	NA	NA
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	mg/kg	NA	NA	NA	<0.000384 U	<0.000403 U	NA	NA	NA	NA	NA	NA	NA	NA	0.0000686 J	NA	NA	NA	NA	NA
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	NS	mg/kg	NA	NA	NA	<0.000368 U	<0.000387 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.000221 U	NA	NA	NA	NA	NA
Perfluorononanoic Acid (PFNA)	375-95-1	NS	mg/kg	NA	NA	NA	<0.000384 U	<0.000403 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA	NA	NA
Perfluorooctanesulfonamide (PFOSA)	754-91-6	NS	mg/kg	NA	NA	NA	<0.000384 U	<0.000403 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.044	mg/kg	NA	NA	NA	<0.000357 U	<0.000375 U	NA	NA	NA	NA	NA	NA	NA	NA	0.000395	NA	NA	NA	NA	NA
Perfluorooctanoic Acid (PFOA)	335-67-1	0.033	mg/kg	NA	NA	NA	<0.000384 U	<0.000403 U	NA	NA	NA	NA	NA	NA	NA	NA	0.000441	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	mg/kg	NA	NA	NA	<0.000767 U	<0.000807 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00046 U	NA	NA	NA	NA	NA
Perfluoropentansulfonic Acid (PFPeS)	2706-91-4	NS	mg/kg	NA	NA	NA	<0.000361 U	<0.000379 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.000216 U	NA	NA	NA	NA	NA
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	NS	mg/kg	NA	NA	NA	<0.000384 U	<0.000403 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	mg/kg	NA	NA	NA	<0.000384 U	<0.000403 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	mg/kg	NA	NA	NA	<0.000384 U	<0.000403 U	NA	NA	NA	NA	NA	NA	NA	NA	<0.00023 U	NA	NA	NA	NA	NA
General Chemistry																						
Solids, Percent	SOLID	NS	Percent	83.1	53.4	85	51.7	49.4	87	88.7	85.7	85.5	87.4	89.2	91.5	86.7	86.1	87.8	91.8	91.1	90.7	92.2

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Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB18	SB18	SB19	SB19	SB19	SB20	SB20	SB21	SB21	SB22	SB22	SB23	SB23	SB24	SB24	SB24	SB25	SB25
			Sample Name	SB18_0-2	SB18_5-7	SB19_0-2	SB19_5-7	SODUP04_030425	SB20_0-2	SB20_5-7	SB21_0-2	SB21_5-7	SB22_0-2	SB22_5-7	SB23_0-2	SB23_5-7	SB24_0-2	SB24_5-7	SODUP05_030525	SB25_0-2	SB25_5-7
			Sample Date	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/03/2025	03/03/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/05/2025	03/05/2025	03/05/2025	03/05/2025	03/05/2025
			Sample Depth	0-2	5-7	0-2	5-7	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	5-7	0-2	5-7
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																					
1,1,1,2-Tetrachloroethane	630-20-6	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
1,1,1-Trichloroethane	71-55-6	100	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
1,1,2-Trichloroethane	79-00-5	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
1,1-Dichloroethane	75-34-3	26	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
1,1-Dichloroethene	75-35-4	100	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
1,2,3-Trichlorobenzene	87-61-6	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
1,2,3-Trichloropropane	96-18-4	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
1,2,4-Trichlorobenzene	120-82-1	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
1,2,4-Trimethylbenzene	95-63-6	52	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
1,2-Dichlorobenzene	95-50-1	100	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
1,2-Dichloroethane	107-06-2	3.1	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
1,2-Dichloropropane	78-87-5	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	52	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
1,3-Dichlorobenzene	541-73-1	49	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
1,4-Dichlorobenzene	106-46-7	13	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
2-Hexanone (MBK)	591-78-6	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Acetone	67-64-1	100	mg/kg	<0.0098 U	<0.012 U	<0.011 U	<0.023 U	<0.01 U	<0.011 U	0.044	<0.0098 U	0.013	<0.011 U	0.017	<0.0088 U	0.017	0.018	<0.0087 U	0.0052 J	0.039	0.011
Acrolein	107-02-8	NS	mg/kg	<0.0098 U	<0.012 U	<0.011 U	<0.023 U	<0.01 U	<0.011 U	<0.0097 U	<0.0098 U	<0.011 U	<0.011 U	<0.011 U	<0.0088 U	<0.0088 U	<0.01 U	<0.0087 U	<0.0094 U	<0.01 U	<0.0082 U
Acrylonitrile	107-13-1	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Benzene	71-43-2	4.8	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Bromochloromethane	74-97-5	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Bromodichloromethane	75-27-4	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Bromoform	75-25-2	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Bromomethane	74-83-9	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Carbon Disulfide	75-15-0	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	0.0028 J
Carbon Tetrachloride	56-23-5	2.4	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Chlorobenzene	108-90-7	100	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Chloroethane	75-00-3	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Chloroform	67-66-3	49	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Chloromethane	74-87-3	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Cis-1,2-Dichloroethene	156-59-2	100	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Cis-1,3-Dichloropropene	10061-01-5	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Cyclohexane	110-82-7	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Cymene	99-87-6	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Dibromochloromethane	124-48-1	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Dibromomethane	74-95-3	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Dichlorodifluoromethane	75-71-8	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Ethylbenzene	100-41-4	41	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Hexachlorobutadiene	87-68-3	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Isopropylbenzene (Cumene)	98-82-8	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
M,P-Xylene	179601-23-1	NS	mg/kg	<0.0098 U	<0.012 U	<0.011 U	<0.023 U	<0.01 U	<0.011 U	<0.0097 U	<0.0098 U	<0.011 U	<0.011 U	<0.011 U	<0.0088 U	<0.0088 U	<0.01 U	<0.0087 U	<0.0094 U	<0.01 U	<0.0082 U
Methyl Acetate	79-20-9	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	100	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	0.014	<0.0049 U	<0.0054 U	<0.0054 U	0.0028 J	<0.0044 U	0.0027 J	0.0036 J	<0.0044 U	<0.0047 U	0.012	<0.0041 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Methylcyclohexane	108-87-2	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Methylene Chloride	75-09-2	100	mg/kg	<0.0098 U	<0.012 U	<0.011 U	<0.023 U	<0.01 U	<0.011 U	<0.0097 U	<0.0098 U	<0.011 U	<0.011 U	<0.011 U	<0.0088 U	<0.0088 U	<0.01 U	<0.0087 U	<0.0094 U	<0.01 U	<0.0082 U
n-Butylbenzene	104-51-8	100	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
n-Propylbenzene	103-65-1	100	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Sec-Butylbenzene	135-98-8	100	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Styrene	100-42-5	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
T-Butylbenzene	98-06-6	100	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Tert-Butyl Alcohol	75-65-0	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Tert-Butyl Methyl Ether	1634-04-4	100	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Tetrachloroethene (PCE)	127-18-4	19	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Toluene	108-88-3	100	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Total Xylenes	1330-20-7	100	mg/kg	<0.015 U	<0.019 U	<0.017 U	<0.034 U	<0.016 U	<0.016 U	<0.015 U	<0.015 U	<0.016 U	<0.016 U	<0.016 U	<0.013 U	<0.013 U	<0.015 U	<0.013 U	<0.014 U	<0.015 U	<0.012 U
Trans-1,2-Dichloroethene	156-60-5	100	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Trans-1,3-Dichloropropene	10061-02-6	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Trichloroethene (TCE)	79-01-6	21	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Trichlorofluoromethane	75-69-4	NS	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U
Vinyl Chloride	75-01-4	0.9	mg/kg	<0.0049 U	<0.0062 U	<0.0055 U	<0.011 U	<0.0052 U	<0.0054 U	<0.0049 U	<0.0049 U	<0.0054 U	<0.0054 U	<0.0055 U	<0.0044 U	<0.0044 U	<0.0052 U	<0.0044 U	<0.0047 U	<0.005 U	<0.0041 U

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB18	SB18	SB19	SB19	SB19	SB20	SB20	SB21	SB21	SB22	SB22	SB23	SB23	SB24	SB24	SB24	SB25	SB25
			Sample Name	SB18_0-2	SB18_5-7	SB19_0-2	SB19_5-7	SODUP04_030425	SB20_0-2	SB20_5-7	SB21_0-2	SB21_5-7	SB22_0-2	SB22_5-7	SB23_0-2	SB23_5-7	SB24_0-2	SB24_5-7	SODUP05_030525	SB25_0-2	SB25_5-7
			Sample Date	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/03/2025	03/03/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/05/2025	03/05/2025	03/05/2025	03/05/2025	03/05/2025
			Sample Depth	0-2	5-7	0-2	5-7	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	5-7	0-2	5-7
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																					
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	mg/kg	<0.185 U	<0.182 U	<0.206 U	<0.181 U	<0.182 U	<0.188 U	<0.191 U	<0.215 U	<0.182 U	<0.202 U	<0.189 U	<0.18 U	<0.184 U	<0.187 U	<0.186 U	<0.185 U	<0.185 U	<0.278 U
1,2-Diphenylhydrazine	122-66-7	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
1,4-Dioxane (P-Dioxane)	123-91-1	13	mg/kg	<0.0183 U	<0.0189 U	<0.0198 U	<0.0194 U	<0.019 U	<0.0185 U	<0.019 U	<0.02 U	<0.0196 U	<0.0196 U	<0.0185 U	<0.0198 U	<0.02 U	<0.0198 U	<0.0196 U	<0.0185 U	<0.0196 U	<0.0194 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	mg/kg	<0.185 U	<0.182 U	<0.206 U	<0.181 U	<0.182 U	<0.188 U	<0.191 U	<0.215 U	<0.182 U	<0.202 U	<0.189 U	<0.18 U	<0.184 U	<0.187 U	<0.186 U	<0.185 U	<0.185 U	<0.278 U
2,4,5-Trichlorophenol	95-95-4	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
2,4,6-Trichlorophenol	88-06-2	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
2,4-Dichlorophenol	120-83-2	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
2,4-Dimethylphenol	105-67-9	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
2,4-Dinitrophenol	51-28-5	NS	mg/kg	<0.185 U	<0.182 U	<0.206 U	<0.181 U	<0.182 U	<0.188 U	<0.191 U	<0.215 U	<0.182 U	<0.202 U	<0.189 U	<0.18 U	<0.184 U	<0.187 U	<0.186 U	<0.185 U	<0.185 U	<0.278 U
2,4-Dinitrotoluene	121-14-2	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
2,6-Dinitrotoluene	606-20-2	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
2-Chloronaphthalene	91-58-7	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
2-Chlorophenol	95-57-8	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
2-Methylnaphthalene	91-57-6	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	0.807 D	<0.139 U
2-Methylphenol (o-Cresol)	95-48-7	100	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
2-Nitroaniline	88-74-4	NS	mg/kg	<0.185 U	<0.182 U	<0.206 U	<0.181 U	<0.182 U	<0.188 U	<0.191 U	<0.215 U	<0.182 U	<0.202 U	<0.189 U	<0.18 U	<0.184 U	<0.187 U	<0.186 U	<0.185 U	<0.185 U	<0.278 U
2-Nitrophenol	88-75-5	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	100	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
3,3'-Dichlorobenzidine	91-94-1	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
3-Nitroaniline	99-09-2	NS	mg/kg	<0.185 U	<0.182 U	<0.206 U	<0.181 U	<0.182 U	<0.188 U	<0.191 U	<0.215 U	<0.182 U	<0.202 U	<0.189 U	<0.18 U	<0.184 U	<0.187 U	<0.186 U	<0.185 U	<0.185 U	<0.278 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	mg/kg	<0.185 U	<0.182 U	<0.206 U	<0.181 U	<0.182 U	<0.188 U	<0.191 U	<0.215 U	<0.182 U	<0.202 U	<0.189 U	<0.18 U	<0.184 U	<0.187 U	<0.186 U	<0.185 U	<0.185 U	<0.278 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
4-Chloro-3-Methylphenol	59-50-7	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
4-Chloroaniline	106-47-8	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
4-Nitroaniline	100-01-6	NS	mg/kg	<0.185 U	<0.182 U	<0.206 U	<0.181 U	<0.182 U	<0.188 U	<0.191 U	<0.215 U	<0.182 U	<0.202 U	<0.189 U	<0.18 U	<0.184 U	<0.187 U	<0.186 U	<0.185 U	<0.185 U	<0.278 U
4-Nitrophenol	100-02-7	NS	mg/kg	<0.185 U	<0.182 U	<0.206 U	<0.181 U	<0.182 U	<0.188 U	<0.191 U	<0.215 U	<0.182 U	<0.202 U	<0.189 U	<0.18 U	<0.184 U	<0.187 U	<0.186 U	<0.185 U	<0.185 U	<0.278 U
Acenaphthene	83-32-9	100	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	0.453 D	<0.139 U
Acenaphthylene	208-96-8	100	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	0.931 D	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	0.0824 JD	<0.139 U
Acetophenone	98-86-2	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	mg/kg	<0.37 U	<0.366 U	<0.412 U	<0.362 U	<0.364 U	<0.376 U	<0.383 U	<0.432 U	<0.365 U	<0.405 U	<0.378 U	<0.361 U	<0.369 U	<0.375 U	<0.372 U	<0.372 U	<0.372 U	<0.557 U
Anthracene	120-12-7	100	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	0.827 D	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	0.433 D	<0.139 U
Atrazine	1912-24-9	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Benzaldehyde	100-52-7	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Benzidine	92-87-5	NS	mg/kg	<0.37 U	<0.366 U	<0.412 U	<0.362 U	<0.364 U	<0.376 U	<0.383 U	<0.432 U	<0.365 U	<0.405 U	<0.378 U	<0.361 U	<0.369 U	<0.375 U	<0.372 U	<0.372 U	<0.372 U	<0.557 U
Benzo(a)anthracene	56-55-3	**1**	mg/kg	<0.0924 U	<0.0913 U	0.0543 JD	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	**3.38 D**	<0.0913 U	<0.101 U	<0.0945 U	0.0649 JD	<0.0923 U	0.0494 JD	<0.0929 U	<0.0928 U	0.603 D	<0.139 U
Benzo(a)pyrene	50-32-8	**1**	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	**5.1 D**	<0.0913 U	<0.101 U	<0.0945 U	0.0584 JD	<0.0923 U	0.0546 JD	<0.0929 U	<0.0928 U	0.503 D	<0.139 U
Benzo(b)fluoranthene	205-99-2	**1**	mg/kg	<0.0924 U	<0.0913 U	0.0618 JD	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	**7.95 D**	<0.0913 U	<0.101 U	<0.0945 U	0.0562 JD	<0.0923 U	0.0494 JD	<0.0929 U	<0.0928 U	0.44 D	<0.139 U
Benzo(g,h,i)Perylene	191-24-2	100	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	2.16 D	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	0.319 D	<0.139 U
Benzo(k)fluoranthene	207-08-9	**3.9**	mg/kg	<0.0924 U	<0.0913 U	0.056 JD	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	**7.41 D**	<0.0913 U	<0.101 U	<0.0945 U	0.0598 JD	<0.0923 U	0.0501 JD	<0.0929 U	<0.0928 U	0.439 D	<0.139 U
Benzoic Acid	65-85-0	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Benzyl Alcohol	100-51-6	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Benzyl Butyl Phthalate	85-68-7	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	NA	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Biphenyl (Diphenyl)	92-52-4	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Bis(2-chloroethoxy) methane	111-91-1	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	mg/kg	<0.0924 U	<0.0913 U	0.105 D	<0.0904 U	0.0821 JD	<0.0939 U	<0.0956 U	0.237 D	<0.0913 U	<0.101 U	<0.0945 U	NA	0.102 D	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Caprolactam	105-60-2	NS	mg/kg	<0.185 U	<0.182 U	<0.206 U	<0.181 U	<0.182 U	<0.188 U	<0.191 U	<0.215 U	<0.182 U	<0.202 U	<0.189 U	<0.18 U	<0.184 U	<0.187 U	<0.186 U	<0.185 U	<0.185 U	<0.278 U
Carbazole	86-74-8	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	1.18 D	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	0.187 D	<0.139 U
Chrysene	218-01-9	**3.9**	mg/kg	<0.0924 U	<0.0913 U	0.0666 JD	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	**9.86 D**	<0.0913 U	<0.101 U	<0.0945 U	0.0642 JD	<0.0923 U	0.0531 JD	<0.0929 U	<0.0928 U	0.649 D	<0.139 U
Dibenz(a,h)anthracene	53-70-3	**0.33**	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	**0.774 D**	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	0.0735 JD	<0.139 U
Dibenzofuran	132-64-9	59	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	0.288 D	<0.139 U
Dibutyl phthalate	84-74-2	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	0.0879 JD	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	0.203 D	<0.139 U
Diethyl phthalate	84-66-2	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Dimethyl phthalate	131-11-3	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Dioctyl phthalate	117-84-0	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	0.055 JD	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	0.168 D	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Diphenylamine	122-39-4	NS	mg/kg	<0.185 U	<0.182 U	<0.206 U	<0.181 U	<0.182 U	<0.188 U	<0.191 U	<0.215 U	<0.182 U	<0.202 U	<0.189 U	<0.18 U	<0.184 U	<0.187 U	<0.186 U	<0.185 U	<0.185 U	<0.278 U
Fluoranthene	206-44-0	100	mg/kg	<0.0924 U	<0.0913 U	0.124 D	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	8.32 D	<0.0913 U	<0.101 U	<0.0945 U	0.147 D	<0.0923 U	0.0838 JD	<0.0929 U	<0.0928 U	1.41 D	<0.139 U
Fluorene	86-73-7	100	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	0.0819 JD	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	0.346 D	<0.139 U
Hexachlorobenzene	118-74-1	1.2	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Hexachlorobutadiene	87-68-3	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Hexachlorocyclopentadiene	77-47-4	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Hexachloroethane	67-72-1	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	**2.66 D**	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	0.335 D	<0.139 U
Isophorone	78-59-1	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Naphthalene	91-20-3	100	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	0.321 D	<0.139 U
Nitrobenzene	98-95-3	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
n-Nitrosodimethylamine	62-75-9	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
n-Nitrosodiphenylamine	86-30-6	NS	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Pentachlorophenol	87-86-5	6.7	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Phenanthrene	85-01-8	100	mg/kg	<0.0924 U	<0.0913 U	0.0642 JD	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	0.256 D	<0.0913 U	<0.101 U	<0.0945 U	0.118 D	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	1.4 D	<0.139 U
Phenol	108-95-2	100	mg/kg	<0.0924 U	<0.0913 U	<0.103 U	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	<0.108 U	<0.0913 U	<0.101 U	<0.0945 U	<0.0902 U	<0.0923 U	<0.0936 U	<0.0929 U	<0.0928 U	<0.0928 U	<0.139 U
Pyrene	129-00-0	100	mg/kg	<0.0924 U	<0.0913 U	0.106 D	<0.0904 U	<0.0909 U	<0.0939 U	<0.0956 U	12.4 D	<0.0913 U	<0.101 U	<0.0945 U	0.129 D	<0.0923 U	0.0703 JD	<0.0929 U	<0.0928 U	1.25 D	<0.139 U
Pyridine	110-86-1	NS	mg/kg	<0.37 U	<0.366 U	<0.412 U	<0.362 U	<0.364 U	<0.376 U	<0.383 U	<0.432 U	<0.365 U	<0.405 U	<0.378 U	<0.361 U	<0.369 U	<0.375 U	<0.372 U	<0.372 U	<0.372 U	<0.557 U

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB18	SB18	SB19	SB19	SB19	SB20	SB20	SB21	SB21	SB22	SB22	SB23	SB23	SB24	SB24	SB24	SB25	SB25
			Sample Name	SB18_0-2	SB18_5-7	SB19_0-2	SB19_5-7	SODUP04_030425	SB20_0-2	SB20_5-7	SB21_0-2	SB21_5-7	SB22_0-2	SB22_5-7	SB23_0-2	SB23_5-7	SB24_0-2	SB24_5-7	SODUP05_030525	SB25_0-2	SB25_5-7
			Sample Date	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/03/2025	03/03/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/05/2025	03/05/2025	03/05/2025	03/05/2025	03/05/2025
			Sample Depth	0-2	5-7	0-2	5-7	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	5-7	0-2	5-7
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides																					
4,4'-DDD	72-54-8	13	mg/kg	<0.00184 U	<0.00179 U	<0.00205 U	<0.0018 U	<0.0018 U	<0.00186 U	<0.00189 U	<0.00212 U	<0.00179 U	<0.00198 U	<0.00183 U	<0.00178 U	<0.0018 U	<0.00182 U	<0.00184 U	<0.00184 U	<0.00179 U	<0.00183 U
4,4'-DDE	72-55-9	8.9	mg/kg	<0.00184 U	<0.00179 U	<0.00205 U	<0.0018 U	<0.0018 U	<0.00186 U	<0.00189 U	<0.00212 U	<0.00179 U	<0.00198 U	<0.00183 U	<0.00178 U	<0.0018 U	<0.00182 U	<0.00184 U	<0.00184 U	<0.00179 U	<0.00183 U
4,4'-DDT	50-29-3	7.9	mg/kg	<0.00184 U	<0.00179 U	<0.00205 U	<0.0018 U	<0.0018 U	<0.00186 U	<0.00189 U	<0.00212 U	<0.00179 U	<0.00198 U	<0.00183 U	<0.00178 U	<0.0018 U	<0.00182 U	<0.00184 U	<0.00184 U	<0.00179 U	<0.00183 U
Aldrin	309-00-2	0.097	mg/kg	<0.00184 U	<0.00179 U	<0.00205 U	<0.0018 U	<0.0018 U	<0.00186 U	<0.00189 U	<0.00212 U	<0.00179 U	<0.00198 U	<0.00183 U	<0.00178 U	<0.0018 U	<0.00182 U	<0.00184 U	<0.00184 U	<0.00179 U	<0.00183 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.48	mg/kg	<0.00184 U	<0.00179 U	<0.00205 U	<0.0018 U	<0.0018 U	<0.00186 U	<0.00189 U	<0.00212 U	<0.00179 U	<0.00198 U	<0.00183 U	<0.00178 U	<0.0018 U	<0.00182 U	<0.00184 U	<0.00184 U	<0.00179 U	<0.00183 U
Alpha Chlordane	5103-71-9	4.2	mg/kg	<0.00184 U	<0.00179 U	<0.00205 U	<0.0018 U	<0.0018 U	<0.00186 U	<0.00189 U	<0.00212 U	<0.00179 U	<0.00198 U	<0.00183 U	<0.00178 U	<0.0018 U	<0.00182 U	<0.00184 U	<0.00184 U	<0.00179 U	<0.00183 U
Alpha Endosulfan	959-98-8	24	mg/kg	<0.00184 U	<0.00179 U	<0.00205 U	<0.0018 U	<0.0018 U	<0.00186 U	<0.00189 U	<0.00212 U	<0.00179 U	<0.00198 U	<0.00183 U	<0.00178 U	<0.0018 U	<0.00182 U	<0.00184 U	<0.00184 U	<0.00179 U	<0.00183 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.36	mg/kg	<0.00184 U	<0.00179 U	<0.00205 U	<0.0018 U	<0.0018 U	<0.00186 U	<0.00189 U	<0.00212 U	<0.00179 U	<0.00198 U	<0.00183 U	<0.00178 U	<0.0018 U	<0.00182 U	<0.00184 U	<0.00184 U	<0.00179 U	<0.00183 U
Beta Endosulfan	33213-65-9	24	mg/kg	<0.00184 U	<0.00179 U	<0.00205 U	<0.0018 U	<0.0018 U	<0.00186 U	<0.00189 U	<0.00212 U	<0.00179 U	<0.00198 U	<0.00183 U	<0.00178 U	<0.0018 U	<0.00182 U	<0.00184 U	<0.00184 U	<0.00179 U	<0.00183 U
Chlordane (alpha and gamma)	57-74-9	NS	mg/kg	<0.0368 U	<0.0359 U	<0.041 U	<0.036 U	<0.036 U	<0.0371 U	<0.0378 U	<0.0424 U	<0.0359 U	<0.0397 U	<0.0365 U	<0.0357 U	<0.036 U	<0.0364 U	<0.0368 U	<0.0367 U	<0.0358 U	<0.0367 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	100	mg/kg	<0.00184 U	<0.00179 U	<0.00205 U	<0.0018 U	<0.0018 U	<0.00186 U	<0.00189 U	<0.00212 U	<0.00179 U	<0.00198 U	<0.00183 U	<0.00178 U	<0.0018 U	<0.00182 U	<0.00184 U	<0.00184 U	<0.00179 U	<0.00183 U
Dieldrin	60-57-1	0.2	mg/kg	<0.00184 U	<0.00179 U	<0.00205 U	<0.0018 U	<0.0018 U	<0.00186 U	<0.00189 U	<0.00212 U	<0.00179 U	<0.00198 U	<0.00183 U	<0.00178 U	<0.0018 U	<0.00182 U	<0.00184 U	<0.00184 U	<0.00179 U	<0.00183 U
Endosulfan Sulfate	1031-07-8	24	mg/kg	<0.00184 U	<0.00179 U	<0.00205 U	<0.0018 U	<0.0018 U	<0.00186 U	<0.00189 U	<0.00212 U	<0.00179 U	<0.00198 U	<0.00183 U	<0.00178 U	<0.0018 U	<0.00182 U	<0.00184 U	<0.00184 U	<0.00179 U	<0.00183 U
Endrin	72-20-8	11	mg/kg	<0.00184 U	<0.00179 U	<0.00205 U	<0.0018 U	<0.0018 U	<0.00186 U	<0.00189 U	<0.00212 U	<0.00179 U	<0.00198 U	<0.00183 U	<0.00178 U	<0.0018 U	<0.00182 U	<0.00184 U	<0.00184 U	<0.00179 U	<0.00183 U
Endrin Aldehyde	7421-93-4	NS	mg/kg	<0.00184 U	<0.00179 U	<0.00205 U	<0.0018 U	<0.0018 U	<0.00186 U	<0.00189 U	<0.00212 U	<0.00179 U	<0.00198 U	<0.00183 U	<0.00178 U	<0.0018 U	<0.00182 U	<0.00184 U	<0.00184 U	<0.00179 U	<0.00183 U
Endrin Ketone	53494-70-5	NS	mg/kg	<0.00184 U	<0.00179 U	<0.00205 U	<0.0018 U	<0.0018 U	<0.00186 U	<0.00189 U	<0.00212 U	<0.00179 U	<0.00198 U	<0.00183 U	<0.00178 U	<0.0018 U	<0.00182 U	<0.00184 U	<0.00184 U	<0.00179 U	<0.00183 U
Gamma Bhc (Lindane)	58-89-9	1.3	mg/kg	<0.00184 U	<0.00179 U	<0.00205 U	<0.0018 U	<0.0018 U	<0.00186 U	<0.00189 U	<0.00212 U	<0.00179 U	<0.00198 U	<0.00183 U	<0.00178 U	<0.0018 U	<0.00182 U	<0.00184 U	<0.00184 U	<0.00179 U	<0.00183 U
Gamma-Chlordane	5566-34-7	NS	mg/kg	<0.00184 U	<0.00179 U	<0.00205 U	<0.0018 U	<0.0018 U	<0.00186 U	<0.00189 U	<0.00212 U	<0.00179 U	<0.00198 U	<0.00183 U	<0.00178 U	<0.0018 U	<0.00182 U	<0.00184 U	<0.00184 U	<0.00179 U	<0.00183 U
Heptachlor	76-44-8	2.1	mg/kg	<0.00184 U	<0.00179 U	<0.00205 U	<0.0018 U	<0.0018 U	<0.00186 U	<0.00189 U	<0.00212 U	<0.00179 U	<0.00198 U	<0.00183 U	<0.00178 U	<0.0018 U	<0.00182 U	<0.00184 U	<0.00184 U	<0.00179 U	<0.00183 U
Heptachlor Epoxide	1024-57-3	NS	mg/kg	<0.00184 U	<0.00179 U	<0.00205 U	<0.0018 U	<0.0018 U	<0.00186 U	<0.00189 U	<0.00212 U	<0.00179 U	<0.00198 U	<0.00183 U	<0.00178 U	<0.0018 U	<0.00182 U	<0.00184 U	<0.00184 U	<0.00179 U	<0.00183 U
Methoxychlor	72-43-5	NS	mg/kg	<0.00184 U	<0.00179 U	<0.00205 U	<0.0018 U	<0.0018 U	<0.00186 U	<0.00189 U	<0.00212 U	<0.00179 U	<0.00198 U	<0.00183 U	<0.00178 U	<0.0018 U	<0.00182 U	<0.00184 U	<0.00184 U	<0.00179 U	<0.00183 U
Toxaphene	8001-35-2	NS	mg/kg	<0.184 U	<0.179 U	<0.205 U	<0.18 U	<0.18 U	<0.186 U	<0.189 U	<0.212 U	<0.179 U	<0.198 U	<0.183 U	<0.178 U	<0.18 U	<0.182 U	<0.184 U	<0.184 U	<0.179 U	<0.183 U
Herbicides																					
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	mg/kg	<0.0224 U	<0.0218 U	<0.0248 U	<0.0219 U	<0.0219 U	<0.0223 U	<0.0227 U	<0.0259 U	<0.022 U	<0.0244 U	<0.0227 U	<0.0217 U	<0.0218 U	<0.0219 U	<0.0221 U	<0.0222 U	<0.0221 U	<0.0222 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	mg/kg	<0.0224 U	<0.0218 U	<0.0248 U	<0.0219 U	<0.0219 U	<0.0223 U	<0.0227 U	<0.0259 U	<0.022 U	<0.0244 U	<0.0227 U	<0.0217 U	<0.0218 U	<0.0219 U	<0.0221 U	<0.0222 U	<0.0221 U	<0.0222 U
Silvex (2,4,5-Tp)	93-72-1	100	mg/kg	<0.0224 U	<0.0218 U	<0.0248 U	<0.0219 U	<0.0219 U	<0.0223 U	<0.0227 U	<0.0259 U	<0.022 U	<0.0244 U	<0.0227 U	<0.0217 U	<0.0218 U	<0.0219 U	<0.0221 U	<0.0222 U	<0.0221 U	<0.0222 U
Polychlorinated Biphenyl																					
PCB-1016 (Aroclor 1016)	12674-11-2	NS	mg/kg	<0.0186 U	<0.0181 U	<0.0207 U	<0.0182 U	<0.0179 U	<0.0188 U	<0.0192 U	<0.0214 U	<0.0181 U	<0.02 U	<0.0184 U	<0.018 U	<0.0182 U	<0.0184 U	<0.0186 U	<0.0185 U	<0.0181 U	<0.0185 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	mg/kg	<0.0186 U	<0.0181 U	<0.0207 U	<0.0182 U	<0.0179 U	<0.0188 U	<0.0192 U	<0.0214 U	<0.0181 U	<0.02 U	<0.0184 U	<0.018 U	<0.0182 U	<0.0184 U	<0.0186 U	<0.0185 U	<0.0181 U	<0.0185 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	mg/kg	<0.0186 U	<0.0181 U	<0.0207 U	<0.0182 U	<0.0179 U	<0.0188 U	<0.0192 U	<0.0214 U	<0.0181 U	<0.02 U	<0.0184 U	<0.018 U	<0.0182 U	<0.0184 U	<0.0186 U	<0.0185 U	<0.0181 U	<0.0185 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	mg/kg	<0.0186 U	<0.0181 U	<0.0207 U	<0.0182 U	<0.0179 U	<0.0188 U	<0.0192 U	<0.0214 U	<0.0181 U	<0.02 U	<0.0184 U	<0.018 U	<0.0182 U	<0.0184 U	<0.0186 U	<0.0185 U	<0.0181 U	<0.0185 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	mg/kg	<0.0186 U	<0.0181 U	<0.0207 U	<0.0182 U	<0.0179 U	<0.0188 U	<0.0192 U	<0.0214 U	<0.0181 U	<0.02 U	<0.0184 U	<0.018 U	<0.0182 U	<0.0184 U	<0.0186 U	<0.0185 U	<0.0181 U	<0.0185 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	mg/kg	<0.0186 U	<0.0181 U	<0.0207 U	<0.0182 U	<0.0179 U	<0.0188 U	<0.0192 U	<0.0214 U	<0.0181 U	<0.02 U	<0.0184 U	<0.018 U	<0.0182 U	<0.0184 U	<0.0186 U	<0.0185 U	<0.0181 U	<0.0185 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	mg/kg	<0.0186 U	<0.0181 U	<0.0207 U	<0.0182 U	<0.0179 U	<0.0188 U	<0.0192 U	<0.0214 U	<0.0181 U	<0.02 U	<0.0184 U	<0.018 U	<0.0182 U	<0.0184 U	<0.0186 U	<0.0185 U	<0.0181 U	<0.0185 U
Total PCBs	1336-36-3	1	mg/kg	<0.0186 U	<0.0181 U	<0.0207 U	<0.0182 U	<0.0179 U	<0.0188 U	<0.0192 U	<0.0214 U	<0.0181 U	<0.02 U	<0.0184 U	<0.018 U	<0.0182 U	<0.0184 U	<0.0186 U	<0.0185 U	<0.0181 U	<0.0185 U
Metals																					
Aluminum	7429-90-5	NS	mg/kg	9,930	10,400	11,100	13,600	14,600	7,840	11,100	9,090	9,080	19,200	6,390	11,900	9,950	10,800	9,680	9,800	8,580	8,810
Antimony	7440-36-0	NS	mg/kg	<2.35 U	<2.3 U	<2.62 U	<2.3 U	<2.29 U	<2.37 U	<2.41 U	<2.71 U	<2.29 U	<2.55 U	<2.37 U	<2.31 U	<2.31 U	<2.35 U	<2.33 U	<2.35 U	<2.33 U	<2.32 U
Arsenic	7440-38-2	**16**	mg/kg	2.43	<1.38 U	7.38	<1.38 U	<1.37 U	3.19	2.08	7.07	1.4	4.25	<1.43 U	1.56	1.62	1.96	1.55	<1.41 U	4.34	1.69
Barium	7440-39-3	**400**	mg/kg	67	125	80.9	137	158	62.6	75.3	110	59.6	132	42.5	72	109	58	62.1	63.8	70.3	43
Beryllium	7440-41-7	72	mg/kg	0.312	0.214	0.43	0.442	0.244	0.323	0.308	0.456	0.295	0.609	0.232	0.328	0.377	0.302	0.332	0.343	0.342	0.386
Cadmium	7440-43-9	4.3	mg/kg	<0.282 U	<0.275 U	<0.315 U	<0.277 U	<0.274 U	<0.284 U	<0.29 U	0.64	<0.275 U	<0.305 U	<0.285 U	<0.278 U	<0.277 U	<0.281 U	<0.279 U	<0.282 U	<0.279 U	<0.279 U
Calcium	7440-70-2	NS	mg/kg	1,520	812	2,570	1,790	1,600	5,120	1,330	8,120	1,550	1,750	1,120	2,500	1,310	1,350	1,840	2,010	9,490	1,310
Chromium, Hexavalent	18540-29-9	110	mg/kg	<0.665 U	0.693	<0.629 U	<0.553 U	<0.549 U	<0.568 U	<0.579 U	<0.651 U	<0.551 U	<0.611 U	0.664	<0.555 U	<0.555 U	<0.563 U	<0.559 U	<0.564 U	<0.558 U	<0.558 U
Chromium, Total	7440-47-3	110	mg/kg	33.2	30.9	32.1	55.5	53.9	18.4	32.8	37.1	31	31.1	29	30.9	49.2	30.8	43.1	40	22.2	27.6
Chromium, Trivalent	16065-83-1	180	mg/kg	33.2	30.2	32.1	55.1	53.9	18.4	32.8	37.1	31	31.1	28.3	30.9	49.2	30.8	43.1	40	22.2	27.6
Cobalt	7440-48-4	NS	mg/kg	12.1	10.6	8.84	16.9	16.8	6.09	9.87	7.98	9.53	14	8.11	11	13.3	8.66	11.3	10.2	11	8.02
Copper	7440-50-8	270	mg/kg	23.8	21.7	31.5	29.6	45	28.8	19.4	97.8	25.1	40	19.4	34.6	19.2	24.1	15.9	19	29.7	14.8
Cyanide	57-12-5	27	mg/kg	<0.565 U	<0.551 U	<0.629 U	<0.553 U	<0.549 U	<0.568 U	<0.579 U	<0.651 U	<0.551 U	<0.611 U	<0.57 U	<0.555 U	<0.555 U	<0.563 U	<0.559 U	<0.564 U	<0.558 U	<0.558 U
Iron	7439-89-6	NS	mg/kg	16,400	15,700	15,600	21,500	22,000	12,200	15,100	21,400	15,700	26,000	11,200	16,800	17,400	13,600	16,300	17,200	22,000	15,100
Lead	7439-92-1	**400**	mg/kg	13.5	2.39	62	2.61	2.36	37	16.1	103	10.6	67.1	5.48	28.9	7.91	15.9	3.65	3.65	66.8	4.75
Magnesium	7439-95-4	NS	mg/kg	3,770	3,360	3,320	6,630	6,590	3,750	3,580	5,530	3,540	4,900	3,280	4,220	4,920	2,960	5,510	4,690	3,100	2,220
Manganese	7439-96-5	2000	mg/kg	356	402	432	464	465	345	212	1,350	367	695	297	288	449	249	316	202	404	343
Mercury	7439-97-6	**0.81**	mg/kg	<0.0339 U	<0.0331 U	<0.0378 U	<0.0332 U	<0.0329 U	0.035	<0.0347 U	0.0552	<0.033 U	<0.0367 U	0.0365	0.0609	<0.0333 U	0.0386	<0.0335 U	<0.0338 U	0.106	<0.0335 U
Nickel	7440-02-0	310	mg/kg	55.5	57.7	34.4	97.3	94.8	20.8	38.4	34	64	24.2	69.7	74.7	112	43.7	94.1	88.3	25.1	27.9
Potassium	7440-09-7	NS	mg/kg	1,460	2,640	1,340	4,590	4,970	1,180	2,180	1,220	1,760	4,200	1,480	2,030	1,890	1,240	1,880	1,890	1,380	1,370
Selenium	7782-49-2	180	mg/kg	<2.35 U	<2.3 U	<2.62 U	<2.3 U	<2.29 U	<2.37 U	<2.41 U	<2.71 U	<2.29 U	<2.55 U	<2.37 U	<2.31 U	<2.31 U	<2.35 U	<2.33 U	<2.35 U	<2.33 U	<2.32 U
Silver	7440-22-4	180	mg/kg	<0.474 U	<0.463 U	<0.529 U	<0.465 U	<0.461 U	<0.477 U	<0.486 U	<0.546 U	<0.463 U	<0.513 U	<0.479 U	<0.466 U	<0.466 U	<0.473 U	<0.469 U	<0.473 U	<0.469 U	<0.468 U
Sodium	7440-23-5	NS	mg/kg	358	145	181	286	304	209	332	1,960	854	1,330	554	1,560	848	343	415	416	326	208
Thallium	7440-28-0	NS	mg/kg	<1.89 U	<1.84 U	<2.1 U	<1.85 U	<1.83 U	<1.9 U	<1.93 U	<2.17 U	<1.84 U	<2.04 U	<1.9 U	<1.85 U	<1.85 U	<1.88 U	<1.87 U	<1.88 U	<1.87 U	<1.86 U
Vanadium	7440-62-2	NS	mg/kg	31.6	30.4	38.3	38	39.8	21.2	31.5	31.7	24.9	48.1	18	26.3	28.6	23.8	28.3	30.1	27.9	24.3
Zinc	7440-66-6	10000	mg/kg	33.3	26	96.3	36.1	37.2	94.8	31.3	531	27.4	212	20	37	27.7	33.9	25.7	27.1	141	23.8

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB18	SB18	SB19	SB19	SB19	SB20	SB20	SB21	SB21	SB22	SB22	SB23	SB23	SB24	SB24	SB24	SB25	SB25
			Sample Name	SB18_0-2	SB18_5-7	SB19_0-2	SB19_5-7	SODUP04_030425	SB20_0-2	SB20_5-7	SB21_0-2	SB21_5-7	SB22_0-2	SB22_5-7	SB23_0-2	SB23_5-7	SB24_0-2	SB24_5-7	SODUP05_030525	SB25_0-2	SB25_5-7
			Sample Date	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/03/2025	03/03/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/05/2025	03/05/2025	03/05/2025	03/05/2025	03/05/2025
			Sample Depth	0-2	5-7	0-2	5-7	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	5-7	0-2	5-7
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Per- and Polyfluoroalkyl Substances																					
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000875 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H,2H,2H-Perfluorodecane Sulfonic Acid (8:2FTS)	39108-34-4	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000889 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H,2H,2H-Perfluorohexane Sulfonic Acid (4:2 FTS)	757124-72-4	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000869 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1H,1H,2H,2H-Perfluorooctane Sulfonic Acid (6:2 FTS)	27619-97-2	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00088 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3 FTCA)	914637-49-3	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00579 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoroheptyl Propanoic Acid (7:3 FTCA)	812-70-4	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00579 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Perfluoropropyl Propanoic Acid (3:3 FTCA)	356-02-5	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00116 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,8-Dioxa-3H-perfluorononanoic Acid (ADONA)	919005-14-4	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000875 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000866 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000926 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl Perfluorooctanesulfonamide (NEtFOSA)	4151-50-2	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000232 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000232 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-ethyl Perfluorooctanesulfonamidoethanol (NEtFOSE)	1691-99-2	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00232 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl Perfluorooctanesulfonamide (NMeFOSA)	31506-32-8	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000232 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000232 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-methyl Perfluorooctanesulfonamidoethanol (NMeFOSE)	24448-09-7	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.00232 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nonafluoro-3,6-dioxaheptanoic Acid (NFDHA)	151772-58-6	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000463 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro(2-ethoxyethane)sulfonic Acid (PFEESA)	113507-82-7	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000412 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000463 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000463 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000205 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	375-22-4	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000926 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000224 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000232 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000225 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000232 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000232 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000232 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000212 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000232 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000222 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorononanoic Acid (PFNA)	375-95-1	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000232 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonamide (PFOSA)	754-91-6	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000232 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.044	mg/kg	NA	NA	NA	NA	NA	NA	<0.000215 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorooctanoic Acid (PFOA)	335-67-1	0.033	mg/kg	NA	NA	NA	NA	NA	NA	<0.000232 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000463 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoropentansulfonic Acid (PFPeS)	2706-91-4	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000218 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000232 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000232 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	mg/kg	NA	NA	NA	NA	NA	NA	<0.000232 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
General Chemistry																					
Solids, Percent	SOLID	NS	Percent	88.5	90.8	79.4	90.4	91.1	88	86.4	76.9	90.8	81.8	87.7	90.1	90.1	88.8	89.5	88.7	89.5	89.6

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB26	SB26	SB27	SB27	SB28	SB28	SB29	SB29	SB30	SB30	SB31	SB31	SB32	SB32	SB33	SB33	SB34	SB34
			Sample Name	SB26_0-2	SB26_5-7	SB27_0-2	SB27_5-7	SB28_0-2	SB28_5-7	SB29_0-2	SB29_5-7	SB30_0-2	SB30_5-7	SB31_0-2	SB31_5-7	SB32_0-2	SB32_5-7	SB33_0-2	SB33_5-7	SB34_0-2	SB34_5-7
			Sample Date	03/05/2025	03/05/2025	03/05/2025	03/05/2025	03/05/2025	03/05/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025
			Sample Depth	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																					
1,1,1,2-Tetrachloroethane	630-20-6	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
1,1,1-Trichloroethane	71-55-6	100	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
1,1,2-Trichloroethane	79-00-5	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
1,1-Dichloroethane	75-34-3	26	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
1,1-Dichloroethene	75-35-4	100	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
1,2,3-Trichlorobenzene	87-61-6	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
1,2,3-Trichloropropane	96-18-4	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
1,2,4-Trichlorobenzene	120-82-1	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
1,2,4-Trimethylbenzene	95-63-6	52	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
1,2-Dichlorobenzene	95-50-1	100	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
1,2-Dichloroethane	107-06-2	3.1	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
1,2-Dichloropropane	78-87-5	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	52	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
1,3-Dichlorobenzene	541-73-1	49	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
1,4-Dichlorobenzene	106-46-7	13	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
2-Hexanone (MBK)	591-78-6	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Acetone	67-64-1	100	mg/kg	0.0091	0.029	<0.0083 U	0.047	<0.011 U	0.035	<0.0093 U	0.16	0.0071 J	0.023	<0.0095 U	0.068	<0.0078 U	0.053	<0.011 U	0.057	<0.011 U	0.023
Acrolein	107-02-8	NS	mg/kg	<0.0091 U	<0.013 U	<0.0083 U	<0.011 U	<0.011 U	<0.015 U	<0.0093 U	<0.016 U	<0.0098 U	<0.01 U	<0.0095 U	<0.012 U	<0.0078 U	<0.01 U	<0.011 U	<0.011 U	<0.011 U	<0.013 U
Acrylonitrile	107-13-1	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Benzene	71-43-2	4.8	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Bromochloromethane	74-97-5	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Bromodichloromethane	75-27-4	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Bromoform	75-25-2	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Bromomethane	74-83-9	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Carbon Disulfide	75-15-0	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	0.0041 J	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Carbon Tetrachloride	56-23-5	2.4	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Chlorobenzene	108-90-7	100	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Chloroethane	75-00-3	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Chloroform	67-66-3	49	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Chloromethane	74-87-3	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Cis-1,2-Dichloroethene	156-59-2	100	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Cis-1,3-Dichloropropene	10061-01-5	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Cyclohexane	110-82-7	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Cymene	99-87-6	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Dibromochloromethane	124-48-1	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Dibromomethane	74-95-3	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Dichlorodifluoromethane	75-71-8	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Ethylbenzene	100-41-4	41	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Hexachlorobutadiene	87-68-3	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Isopropylbenzene (Cumene)	98-82-8	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
M,P-Xylene	179601-23-1	NS	mg/kg	<0.0091 U	<0.013 U	<0.0083 U	<0.011 U	<0.011 U	<0.015 U	<0.0093 U	<0.016 U	<0.0098 U	<0.01 U	<0.0095 U	<0.012 U	<0.0078 U	<0.01 U	<0.011 U	<0.011 U	<0.011 U	<0.013 U
Methyl Acetate	79-20-9	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	0.0064	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	100	mg/kg	0.0024 J	0.007	<0.0042 U	0.016	<0.0055 U	0.0094	<0.0047 U	0.057	<0.0049 U	0.0054	<0.0047 U	0.026	<0.0039 U	0.019	<0.0055 U	0.021	<0.0057 U	0.0059 J
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Methylcyclohexane	108-87-2	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Methylene Chloride	75-09-2	100	mg/kg	<0.0091 U	<0.013 U	<0.0083 U	<0.011 U	<0.011 U	<0.015 U	<0.0093 U	<0.016 U	<0.0098 U	<0.01 U	<0.0095 U	<0.012 U	<0.0078 U	<0.01 U	<0.011 U	<0.011 U	<0.011 U	<0.013 U
n-Butylbenzene	104-51-8	100	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
n-Propylbenzene	103-65-1	100	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Sec-Butylbenzene	135-98-8	100	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Styrene	100-42-5	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
T-Butylbenzene	98-06-6	100	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Tert-Butyl Alcohol	75-65-0	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Tert-Butyl Methyl Ether	1634-04-4	100	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Tetrachloroethene (PCE)	127-18-4	19	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Toluene	108-88-3	100	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Total Xylenes	1330-20-7	100	mg/kg	<0.014 U	<0.019 U	<0.012 U	<0.017 U	<0.016 U	<0.022 U	<0.014 U	<0.024 U	<0.015 U	<0.016 U	<0.014 U	<0.018 U	<0.012 U	<0.015 U	<0.016 U	<0.016 U	<0.017 U	<0.02 U
Trans-1,2-Dichloroethene	156-60-5	100	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Trans-1,3-Dichloropropene	10061-02-6	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Trichloroethene (TCE)	79-01-6	21	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Trichlorofluoromethane	75-69-4	NS	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U
Vinyl Chloride	75-01-4	0.9	mg/kg	<0.0046 U	<0.0063 U	<0.0042 U	<0.0057 U	<0.0055 U	<0.0073 U	<0.0047 U	<0.0079 U	<0.0049 U	<0.0052 U	<0.0047 U	<0.0061 U	<0.0039 U	<0.0051 U	<0.0055 U	<0.0053 U	<0.0057 U	<0.0067 U

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB26	SB26	SB27	SB27	SB28	SB28	SB29	SB29	SB30	SB30	SB31	SB31	SB32	SB32	SB33	SB33	SB34	SB34
			Sample Name	SB26_0-2	SB26_5-7	SB27_0-2	SB27_5-7	SB28_0-2	SB28_5-7	SB29_0-2	SB29_5-7	SB30_0-2	SB30_5-7	SB31_0-2	SB31_5-7	SB32_0-2	SB32_5-7	SB33_0-2	SB33_5-7	SB34_0-2	SB34_5-7
			Sample Date	03/05/2025	03/05/2025	03/05/2025	03/05/2025	03/05/2025	03/05/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025
			Sample Depth	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																					
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	mg/kg	<0.26 U	<0.278 U	<0.266 U	<0.22 U	<0.192 U	<0.183 U	<0.182 U	<0.26 U	<0.187 U	<0.195 U	<0.177 U	<0.18 U	<0.174 U	<0.179 U	<0.177 U	<0.192 U	<0.181 U	<0.189 U
1,2-Diphenylhydrazine	122-66-7	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
1,4-Dioxane (P-Dioxane)	123-91-1	13	mg/kg	<0.0196 U	<0.0196 U	<0.0196 U	<0.0198 U	<0.0185 U	<0.0196 U	<0.0192 U	<0.0192 U	<0.0192 U	<0.0192 U	<0.0192 U	<0.0192 U	<0.0192 U	<0.0192 U	<0.0192 U	<0.0192 U	<0.019 U	<0.0194 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	mg/kg	<0.26 U	<0.278 U	<0.266 U	<0.22 U	<0.192 U	<0.183 U	<0.182 U	<0.26 U	<0.187 U	<0.195 U	<0.177 U	<0.18 U	<0.174 U	<0.179 U	<0.177 U	<0.192 U	<0.181 U	<0.189 U
2,4,5-Trichlorophenol	95-95-4	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
2,4,6-Trichlorophenol	88-06-2	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
2,4-Dichlorophenol	120-83-2	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
2,4-Dimethylphenol	105-67-9	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
2,4-Dinitrophenol	51-28-5	NS	mg/kg	<0.26 U	<0.278 U	<0.266 U	<0.22 U	<0.192 U	<0.183 U	<0.182 U	<0.26 U	<0.187 U	<0.195 U	<0.177 U	<0.18 U	<0.174 U	<0.179 U	<0.177 U	<0.192 U	<0.181 U	<0.189 U
2,4-Dinitrotoluene	121-14-2	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
2,6-Dinitrotoluene	606-20-2	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
2-Chloronaphthalene	91-58-7	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
2-Chlorophenol	95-57-8	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
2-Methylnaphthalene	91-57-6	NS	mg/kg	0.341 D	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
2-Methylphenol (o-Cresol)	95-48-7	100	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
2-Nitroaniline	88-74-4	NS	mg/kg	<0.26 U	<0.278 U	<0.266 U	<0.22 U	<0.192 U	<0.183 U	<0.182 U	<0.26 U	<0.187 U	<0.195 U	<0.177 U	<0.18 U	<0.174 U	<0.179 U	<0.177 U	<0.192 U	<0.181 U	<0.189 U
2-Nitrophenol	88-75-5	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	100	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
3,3'-Dichlorobenzidine	91-94-1	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
3-Nitroaniline	99-09-2	NS	mg/kg	<0.26 U	<0.278 U	<0.266 U	<0.22 U	<0.192 U	<0.183 U	<0.182 U	<0.26 U	<0.187 U	<0.195 U	<0.177 U	<0.18 U	<0.174 U	<0.179 U	<0.177 U	<0.192 U	<0.181 U	<0.189 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	mg/kg	<0.26 U	<0.278 U	<0.266 U	<0.22 U	<0.192 U	<0.183 U	<0.182 U	<0.26 U	<0.187 U	<0.195 U	<0.177 U	<0.18 U	<0.174 U	<0.179 U	<0.177 U	<0.192 U	<0.181 U	<0.189 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
4-Chloro-3-Methylphenol	59-50-7	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
4-Chloroaniline	106-47-8	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
4-Nitroaniline	100-01-6	NS	mg/kg	<0.26 U	<0.278 U	<0.266 U	<0.22 U	<0.192 U	<0.183 U	<0.182 U	<0.26 U	<0.187 U	<0.195 U	<0.177 U	<0.18 U	<0.174 U	<0.179 U	<0.177 U	<0.192 U	<0.181 U	<0.189 U
4-Nitrophenol	100-02-7	NS	mg/kg	<0.26 U	<0.278 U	<0.266 U	<0.22 U	<0.192 U	<0.183 U	<0.182 U	<0.26 U	<0.187 U	<0.195 U	<0.177 U	<0.18 U	<0.174 U	<0.179 U	<0.177 U	<0.192 U	<0.181 U	<0.189 U
Acenaphthene	83-32-9	100	mg/kg	0.197 D	<0.139 U	<0.133 U	<0.11 U	0.0608 JD	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	0.0904 JD	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Acenaphthylene	208-96-8	100	mg/kg	0.153 D	<0.139 U	<0.133 U	0.137 D	0.118 D	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	0.0584 JD	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Acetophenone	98-86-2	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	mg/kg	<0.521 U	<0.557 U	<0.532 U	<0.441 U	<0.385 U	<0.366 U	<0.366 U	<0.522 U	<0.374 U	<0.39 U	<0.355 U	<0.362 U	<0.348 U	<0.36 U	<0.354 U	<0.384 U	<0.362 U	<0.378 U
Anthracene	120-12-7	100	mg/kg	0.386 D	<0.139 U	<0.133 U	0.128 D	0.284 D	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	0.238 D	<0.0886 U	0.0939 D	0.0521 JD	<0.0898 U	<0.0885 U	<0.0959 U	0.0564 JD	0.0483 JD
Atrazine	1912-24-9	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Benzaldehyde	100-52-7	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Benzidine	92-87-5	NS	mg/kg	<0.521 U	<0.557 U	<0.532 U	<0.441 U	<0.385 U	<0.366 U	<0.366 U	<0.522 U	<0.374 U	<0.39 U	<0.355 U	<0.362 U	<0.348 U	<0.36 U	<0.354 U	<0.384 U	<0.362 U	<0.378 U
Benzo(a)anthracene	56-55-3	**1**	mg/kg	0.733 D	0.0756 JD	0.0765 JD	0.382 D	0.522 D	0.087 JD	0.117 D	0.0843 JD	0.152 D	0.615 D	0.0595 JD	0.248 D	0.184 D	0.0962 D	0.112 D	0.0996 D	0.225 D	0.0989 D
Benzo(a)pyrene	50-32-8	**1**	mg/kg	0.561 D	<0.139 U	0.0701 JD	0.352 D	0.349 D	0.0738 JD	0.0912 JD	0.0927 JD	0.122 D	0.425 D	<0.0886 U	0.162 D	0.137 D	0.0761 JD	0.0827 JD	0.0644 JD	0.171 D	0.0695 JD
Benzo(b)fluoranthene	205-99-2	**1**	mg/kg	0.639 D	<0.139 U	0.0691 JD	0.34 D	0.442 D	0.0804 JD	0.0905 JD	0.0843 JD	0.13 D	0.409 D	<0.0886 U	0.166 D	0.142 D	0.0746 JD	0.087 JD	0.0697 JD	0.182 D	0.074 JD
Benzo(g,h,i)Perylene	191-24-2	100	mg/kg	0.33 D	<0.139 U	<0.133 U	0.203 D	0.29 D	0.0519 JD	0.0511 JD	<0.13 U	0.0746 JD	0.207 D	<0.0886 U	0.078 JD	0.0674 JD	0.0474 JD	0.0495 JD	<0.0959 U	0.0983 D	<0.0945 U
Benzo(k)fluoranthene	207-08-9	**3.9**	mg/kg	0.579 D	<0.139 U	<0.133 U	0.315 D	0.476 D	0.0767 JD	0.0876 JD	0.0698 JD	0.107 D	0.411 D	<0.0886 U	0.172 D	0.129 D	0.0789 JD	0.0686 JD	0.0621 JD	0.159 D	<0.0945 U
Benzoic Acid	65-85-0	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Benzyl Alcohol	100-51-6	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Benzyl Butyl Phthalate	85-68-7	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Biphenyl (Diphenyl)	92-52-4	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Bis(2-chloroethoxy) methane	111-91-1	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	mg/kg	0.252 D	<0.139 U	<0.133 U	<0.11 U	0.0623 JD	<0.0914 U	0.0693 JD	<0.13 U	<0.0934 U	0.0888 JD	<0.0886 U	0.178 D	<0.087 U	0.126 D	<0.0885 U	<0.0959 U	0.361 D	<0.0945 U
Caprolactam	105-60-2	NS	mg/kg	<0.26 U	<0.278 U	<0.266 U	<0.22 U	<0.192 U	<0.183 U	<0.182 U	<0.26 U	<0.187 U	<0.195 U	<0.177 U	<0.18 U	<0.174 U	<0.179 U	<0.177 U	<0.192 U	<0.181 U	<0.189 U
Carbazole	86-74-8	NS	mg/kg	0.104 JD	<0.139 U	<0.133 U	<0.11 U	0.0985 D	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	0.0647 JD	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Chrysene	218-01-9	**3.9**	mg/kg	1.03 D	<0.139 U	0.0946 JD	0.404 D	0.544 D	0.0928 D	0.119 D	0.0802 JD	0.149 D	0.584 D	0.0538 JD	0.237 D	0.17 D	0.0919 D	0.11 D	0.0904 JD	0.218 D	0.103 D
Dibenz(a,h)anthracene	53-70-3	**0.33**	mg/kg	0.12 JD	<0.139 U	<0.133 U	0.0669 JD	0.0954 JD	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	0.0802 JD	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Dibenzofuran	132-64-9	59	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	0.0492 JD	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Dibutyl phthalate	84-74-2	NS	mg/kg	0.612 D	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	0.157 D	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Diethyl phthalate	84-66-2	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Dimethyl phthalate	131-11-3	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Dioctyl phthalate	117-84-0	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Diphenylamine	122-39-4	NS	mg/kg	<0.26 U	<0.278 U	<0.266 U	<0.22 U	<0.192 U	<0.183 U	<0.182 U	<0.26 U	<0.187 U	<0.195 U	<0.177 U	<0.18 U	<0.174 U	<0.179 U	<0.177 U	<0.192 U	<0.181 U	<0.189 U
Fluoranthene	206-44-0	100	mg/kg	1.31 D	0.173 D	0.14 D	0.869 D	1.09 D	0.129 D	0.234 D	0.109 JD	0.322 D	1.47 D	0.139 D	0.617 D	0.414 D	0.173 D	0.209 D	0.23 D	0.403 D	0.261 D
Fluorene	86-73-7	100	mg/kg	0.252 D	<0.139 U	<0.133 U	<0.11 U	0.0969 D	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	0.0771 JD	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Hexachlorobenzene	118-74-1	1.2	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Hexachlorobutadiene	87-68-3	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Hexachlorocyclopentadiene	77-47-4	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Hexachloroethane	67-72-1	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Indeno(1,2,3-cd)pyrene	193-39-5	**0.5**	mg/kg	<0.13 U	<0.139 U	<0.133 U	0.217 D	0.305 D	0.0555 JD	0.0562 JD	<0.13 U	0.0776 JD	0.243 D	<0.0886 U	0.0982 D	0.0834 JD	0.0481 JD	0.0552 JD	<0.0959 U	0.107 D	<0.0945 U
Isophorone	78-59-1	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Naphthalene	91-20-3	100	mg/kg	0.151 D	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	0.103 D	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Nitrobenzene	98-95-3	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
n-Nitrosodimethylamine	62-75-9	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
n-Nitrosodiphenylamine	86-30-6	NS	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Pentachlorophenol	87-86-5	6.7	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Phenanthrene	85-01-8	100	mg/kg	1.24 D	0.169 D	0.0808 JD	0.497 D	0.829 D	0.0636 JD	0.111 D	<0.13 U	0.159 D	0.782 D	0.0935 D	0.346 D	0.217 D	0.0703 JD	0.101 D	0.134 D	0.163 D	0.176 D
Phenol	108-95-2	100	mg/kg	<0.13 U	<0.139 U	<0.133 U	<0.11 U	<0.0963 U	<0.0914 U	<0.0913 U	<0.13 U	<0.0934 U	<0.0975 U	<0.0886 U	<0.0903 U	<0.087 U	<0.0898 U	<0.0885 U	<0.0959 U	<0.0904 U	<0.0945 U
Pyrene	129-00-0	100	mg/kg	1.72 D	0.149 D	0.151 D	0.84 D	1.03 D	0.128 D	0.177 D	0.0937 JD	0.216 D	1.02 D	0.0942 D	0.37 D	0.295 D	0.121 D	0.154 D	0.153 D	0.327 D	0.188 D
Pyridine	110-86-1	NS	mg/kg	<0.521 U	<0.557 U	<0.532 U	<0.441 U	<0.385 U	<0.366 U	<0.366 U	<0.522 U	<0.374 U	<0.39 U	<0.355 U	<0.362 U	<0.348 U	<0.36 U	<0.354 U	<0.384 U	<0.362 U	<0.378 U

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB26	SB26	SB27	SB27	SB28	SB28	SB29	SB29	SB30	SB30	SB31	SB31	SB32	SB32	SB33	SB33	SB34	SB34
			Sample Name	SB26_0-2	SB26_5-7	SB27_0-2	SB27_5-7	SB28_0-2	SB28_5-7	SB29_0-2	SB29_5-7	SB30_0-2	SB30_5-7	SB31_0-2	SB31_5-7	SB32_0-2	SB32_5-7	SB33_0-2	SB33_5-7	SB34_0-2	SB34_5-7
			Sample Date	03/05/2025	03/05/2025	03/05/2025	03/05/2025	03/05/2025	03/05/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025
			Sample Depth	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides																					
4,4'-DDD	72-54-8	13	mg/kg	<0.00171 U	<0.00183 U	<0.00175 U	<0.00218 U	<0.0019 U	<0.00178 U	<0.00182 U	<0.00256 U	<0.00187 U	<0.00192 U	<0.00173 U	<0.00176 U	<0.00172 U	<0.00176 U	<0.00176 U	<0.00189 U	<0.00177 U	<0.00185 U
4,4'-DDE	72-55-9	8.9	mg/kg	<0.00171 U	<0.00183 U	<0.00175 U	<0.00218 U	<0.0019 U	<0.00178 U	<0.00182 U	<0.00256 U	<0.00187 U	<0.00192 U	<0.00173 U	<0.00176 U	<0.00172 U	<0.00176 U	<0.00176 U	<0.00189 U	<0.00177 U	<0.00185 U
4,4'-DDT	50-29-3	7.9	mg/kg	<0.00171 U	<0.00183 U	<0.00175 U	<0.00218 U	<0.0019 U	<0.00178 U	<0.00182 U	<0.00256 U	<0.00187 U	<0.00192 U	<0.00173 U	<0.00176 U	<0.00172 U	<0.00176 U	<0.00176 U	<0.00189 U	<0.00177 U	<0.00185 U
Aldrin	309-00-2	0.097	mg/kg	<0.00171 U	<0.00183 U	<0.00175 U	<0.00218 U	<0.0019 U	<0.00178 U	<0.00182 U	<0.00256 U	<0.00187 U	<0.00192 U	<0.00173 U	<0.00176 U	<0.00172 U	<0.00176 U	<0.00176 U	<0.00189 U	<0.00177 U	<0.00185 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.48	mg/kg	<0.00171 U	<0.00183 U	<0.00175 U	<0.00218 U	<0.0019 U	<0.00178 U	<0.00182 U	<0.00256 U	<0.00187 U	<0.00192 U	<0.00173 U	<0.00176 U	<0.00172 U	<0.00176 U	<0.00176 U	<0.00189 U	<0.00177 U	<0.00185 U
Alpha Chlordane	5103-71-9	4.2	mg/kg	<0.00171 U	<0.00183 U	<0.00175 U	<0.00218 U	0.00337 D	<0.00178 U	<0.00182 U	<0.00256 U	<0.00187 U	0.00462 D	<0.00173 U	<0.00176 U	0.00299 D	<0.00176 U	<0.00176 U	0.00335 D	0.00212 D	<0.00185 U
Alpha Endosulfan	959-98-8	24	mg/kg	<0.00171 U	<0.00183 U	<0.00175 U	<0.00218 U	<0.0019 U	<0.00178 U	<0.00182 U	<0.00256 U	<0.00187 U	<0.00192 U	<0.00173 U	<0.00176 U	<0.00172 U	<0.00176 U	<0.00176 U	<0.00189 U	<0.00177 U	<0.00185 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.36	mg/kg	<0.00171 U	<0.00183 U	<0.00175 U	<0.00218 U	<0.0019 U	<0.00178 U	<0.00182 U	<0.00256 U	<0.00187 U	<0.00192 U	<0.00173 U	<0.00176 U	<0.00172 U	<0.00176 U	<0.00176 U	<0.00189 U	<0.00177 U	<0.00185 U
Beta Endosulfan	33213-65-9	24	mg/kg	<0.00171 U	<0.00183 U	<0.00175 U	<0.00218 U	<0.0019 U	<0.00178 U	<0.00182 U	<0.00256 U	<0.00187 U	<0.00192 U	<0.00173 U	<0.00176 U	<0.00172 U	<0.00176 U	<0.00176 U	<0.00189 U	<0.00177 U	<0.00185 U
Chlordane (alpha and gamma)	57-74-9	NS	mg/kg	<0.0342 U	<0.0367 U	<0.035 U	<0.0436 U	<0.0381 U	<0.0356 U	<0.0365 U	<0.0512 U	<0.0373 U	<0.0383 U	<0.0346 U	<0.0352 U	<0.0344 U	<0.0352 U	<0.0351 U	<0.0378 U	<0.0353 U	<0.037 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	100	mg/kg	<0.00171 U	<0.00183 U	<0.00175 U	<0.00218 U	<0.0019 U	<0.00178 U	<0.00182 U	<0.00256 U	<0.00187 U	<0.00192 U	<0.00173 U	<0.00176 U	<0.00172 U	<0.00176 U	<0.00176 U	<0.00189 U	<0.00177 U	<0.00185 U
Dieldrin	60-57-1	0.2	mg/kg	<0.00171 U	<0.00183 U	<0.00175 U	<0.00218 U	<0.0019 U	<0.00178 U	<0.00182 U	<0.00256 U	<0.00187 U	<0.00192 U	<0.00173 U	<0.00176 U	0.00289 DP	<0.00176 U	<0.00176 U	<0.00189 U	0.00234 D	<0.00185 U
Endosulfan Sulfate	1031-07-8	24	mg/kg	<0.00171 U	<0.00183 U	<0.00175 U	<0.00218 U	<0.0019 U	<0.00178 U	<0.00182 U	<0.00256 U	<0.00187 U	<0.00192 U	<0.00173 U	<0.00176 U	<0.00172 U	<0.00176 U	<0.00176 U	<0.00189 U	<0.00177 U	<0.00185 U
Endrin	72-20-8	11	mg/kg	<0.00171 U	<0.00183 U	<0.00175 U	<0.00218 U	<0.0019 U	<0.00178 U	<0.00182 U	<0.00256 U	<0.00187 U	<0.00192 U	<0.00173 U	<0.00176 U	<0.00172 U	<0.00176 U	<0.00176 U	<0.00189 U	<0.00177 U	<0.00185 U
Endrin Aldehyde	7421-93-4	NS	mg/kg	<0.00171 U	<0.00183 U	<0.00175 U	<0.00218 U	<0.0019 U	<0.00178 U	<0.00182 U	<0.00256 U	<0.00187 U	<0.00192 U	<0.00173 U	<0.00176 U	<0.00172 U	<0.00176 U	<0.00176 U	<0.00189 U	<0.00177 U	<0.00185 U
Endrin Ketone	53494-70-5	NS	mg/kg	<0.00171 U	<0.00183 U	<0.00175 U	<0.00218 U	<0.0019 U	<0.00178 U	<0.00182 U	<0.00256 U	<0.00187 U	<0.00192 U	<0.00173 U	<0.00176 U	<0.00172 U	<0.00176 U	<0.00176 U	<0.00189 U	<0.00177 U	<0.00185 U
Gamma Bhc (Lindane)	58-89-9	1.3	mg/kg	<0.00171 U	<0.00183 U	<0.00175 U	<0.00218 U	<0.0019 U	<0.00178 U	<0.00182 U	<0.00256 U	<0.00187 U	<0.00192 U	<0.00173 U	<0.00176 U	<0.00172 U	<0.00176 U	<0.00176 U	<0.00189 U	<0.00177 U	<0.00185 U
Gamma-Chlordane	5566-34-7	NS	mg/kg	<0.00171 U	<0.00183 U	<0.00175 U	<0.00218 U	0.00301 D	<0.00178 U	<0.00182 U	<0.00256 U	<0.00187 U	0.00484 D	<0.00173 U	<0.00176 U	0.00314 D	<0.00176 U	<0.00176 U	0.00525 DP	0.00264 DP	<0.00185 U
Heptachlor	76-44-8	2.1	mg/kg	<0.00171 U	<0.00183 U	<0.00175 U	<0.00218 U	<0.0019 U	<0.00178 U	<0.00182 U	<0.00256 U	<0.00187 U	<0.00192 U	<0.00173 U	<0.00176 U	<0.00172 U	<0.00176 U	<0.00176 U	<0.00189 U	<0.00177 U	<0.00185 U
Heptachlor Epoxide	1024-57-3	NS	mg/kg	<0.00171 U	<0.00183 U	<0.00175 U	<0.00218 U	<0.0019 U	<0.00178 U	<0.00182 U	<0.00256 U	<0.00187 U	<0.00192 U	<0.00173 U	<0.00176 U	<0.00172 U	<0.00176 U	<0.00176 U	<0.00189 U	<0.00177 U	<0.00185 U
Methoxychlor	72-43-5	NS	mg/kg	<0.00171 U	<0.00183 U	<0.00175 U	<0.00218 U	<0.0019 U	<0.00178 U	<0.00182 U	<0.00256 U	<0.00187 U	<0.00192 U	<0.00173 U	<0.00176 U	<0.00172 U	<0.00176 U	<0.00176 U	<0.00189 U	<0.00177 U	<0.00185 U
Toxaphene	8001-35-2	NS	mg/kg	<0.171 U	<0.183 U	<0.175 U	<0.218 U	<0.19 U	<0.178 U	<0.182 U	<0.256 U	<0.187 U	<0.192 U	<0.173 U	<0.176 U	<0.172 U	<0.176 U	<0.176 U	<0.189 U	<0.177 U	<0.185 U
Herbicides																					
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	mg/kg	<0.0208 U	<0.0219 U	<0.0209 U	<0.0266 U	<0.0232 U	<0.0217 U	<0.0223 U	<0.031 U	<0.0226 U	<0.0234 U	<0.021 U	<0.0216 U	<0.0211 U	<0.0215 U	<0.0214 U	<0.0228 U	<0.0216 U	<0.0227 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	mg/kg	<0.0208 U	<0.0219 U	<0.0209 U	<0.0266 U	<0.0232 U	<0.0217 U	<0.0223 U	<0.031 U	<0.0226 U	<0.0234 U	<0.021 U	<0.0216 U	<0.0211 U	<0.0215 U	<0.0214 U	<0.0228 U	<0.0216 U	<0.0227 U
Silvex (2,4,5-Tp)	93-72-1	100	mg/kg	<0.0208 U	<0.0219 U	<0.0209 U	<0.0266 U	<0.0232 U	<0.0217 U	<0.0223 U	<0.031 U	<0.0226 U	<0.0234 U	<0.021 U	<0.0216 U	<0.0211 U	<0.0215 U	<0.0214 U	<0.0228 U	<0.0216 U	<0.0227 U
Polychlorinated Biphenyl																					
PCB-1016 (Aroclor 1016)	12674-11-2	NS	mg/kg	<0.0173 U	<0.0185 U	<0.0174 U	<0.022 U	<0.0192 U	<0.0183 U	<0.0185 U	<0.0259 U	<0.0187 U	<0.0193 U	<0.0175 U	<0.0178 U	<0.0174 U	<0.0178 U	<0.0177 U	<0.0191 U	<0.0178 U	<0.0187 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	mg/kg	<0.0173 U	<0.0185 U	<0.0174 U	<0.022 U	<0.0192 U	<0.0183 U	<0.0185 U	<0.0259 U	<0.0187 U	<0.0193 U	<0.0175 U	<0.0178 U	<0.0174 U	<0.0178 U	<0.0177 U	<0.0191 U	<0.0178 U	<0.0187 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	mg/kg	<0.0173 U	<0.0185 U	<0.0174 U	<0.022 U	<0.0192 U	<0.0183 U	<0.0185 U	<0.0259 U	<0.0187 U	<0.0193 U	<0.0175 U	<0.0178 U	<0.0174 U	<0.0178 U	<0.0177 U	<0.0191 U	<0.0178 U	<0.0187 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	mg/kg	<0.0173 U	<0.0185 U	<0.0174 U	<0.022 U	<0.0192 U	<0.0183 U	<0.0185 U	<0.0259 U	<0.0187 U	<0.0193 U	<0.0175 U	<0.0178 U	<0.0174 U	<0.0178 U	<0.0177 U	<0.0191 U	<0.0178 U	<0.0187 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	mg/kg	<0.0173 U	<0.0185 U	<0.0174 U	<0.022 U	<0.0192 U	<0.0183 U	<0.0185 U	<0.0259 U	<0.0187 U	<0.0193 U	<0.0175 U	<0.0178 U	<0.0174 U	<0.0178 U	<0.0177 U	<0.0191 U	<0.0178 U	<0.0187 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	mg/kg	<0.0173 U	<0.0185 U	<0.0174 U	<0.022 U	<0.0192 U	<0.0183 U	<0.0185 U	<0.0259 U	<0.0187 U	<0.0193 U	<0.0175 U	<0.0178 U	0.044	<0.0178 U	<0.0177 U	<0.0191 U	<0.0178 U	<0.0187 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	mg/kg	<0.0173 U	<0.0185 U	<0.0174 U	<0.022 U	<0.0192 U	<0.0183 U	<0.0185 U	<0.0259 U	<0.0187 U	<0.0193 U	<0.0175 U	<0.0178 U	<0.0174 U	<0.0178 U	<0.0177 U	<0.0191 U	<0.0178 U	<0.0187 U
Total PCBs	1336-36-3	1	mg/kg	<0.0173 U	<0.0185 U	<0.0174 U	<0.022 U	<0.0192 U	<0.0183 U	<0.0185 U	<0.0259 U	<0.0187 U	<0.0193 U	<0.0175 U	<0.0178 U	0.044	<0.0178 U	<0.0177 U	<0.0191 U	<0.0178 U	<0.0187 U
Metals																					
Aluminum	7429-90-5	NS	mg/kg	16,000	10,200	14,000	18,900	2,660	9,910	6,380	20,700	5,390	9,630	2,410	2,780	7,070	4,430	9,840	10,300	6,980	9,340
Antimony	7440-36-0	NS	mg/kg	<2.21 U	<2.33 U	<2.24 U	<2.79 U	<2.44 U	<2.31 U	<2.33 U	<3.28 U	<2.39 U	<2.47 U	<2.23 U	<2.26 U	<2.21 U	<2.26 U	<2.25 U	<2.43 U	<2.27 U	<2.38 U
Arsenic	7440-38-2	**16**	mg/kg	<1.33 U	3.41	1.64	10.2	<1.46 U	4.6	1.8	12.3	3.01	4.5	<1.34 U	<1.36 U	3.75	1.89	3.48	7.07	2.38	3.58
Barium	7440-39-3	**400**	mg/kg	185	86.3	136	**810**	21.8	100	60.2	94.7	77.5	125	22.5	24	79.2	31.3	70.3	79.2	60.2	72.3
Beryllium	7440-41-7	72	mg/kg	0.355	0.381	0.37	0.397	0.11	0.36	0.206	0.684	0.216	0.582	0.075	0.095	0.296	0.223	0.407	0.422	0.229	0.355
Cadmium	7440-43-9	4.3	mg/kg	<0.265 U	<0.28 U	<0.268 U	<0.335 U	<0.292 U	0.657	<0.28 U	<0.393 U	0.706	0.424	<0.267 U	<0.272 U	0.327	<0.271 U	<0.27 U	0.388	<0.272 U	0.314
Calcium	7440-70-2	NS	mg/kg	11,700	4,850	9,320	2,110	2,430	2,280	3,450	2,860	4,490	11,000	1,070	4,650	8,590	1,130	2,440	3,710	4,390	2,260
Chromium, Hexavalent	18540-29-9	110	mg/kg	<0.531 U	<0.56 U	<0.537 U	<0.669 U	<0.585 U	<0.555 U	<0.56 U	<0.786 U	<0.573 U	<0.592 U	<0.535 U	<0.543 U	<0.53 U	<0.542 U	<0.541 U	<0.582 U	<0.544 U	<0.57 U
Chromium, Total	7440-47-3	110	mg/kg	30.4	27.1	33.2	70.6	6.64	29.6	16.8	53.4	14.6	23.9	7.14	10.4	14.2	10.1	19	26	16.5	20.2
Chromium, Trivalent	16065-83-1	180	mg/kg	30.4	27.1	33.2	70.6	6.64	29.6	16.8	53.4	14.6	23.9	7.14	10.4	14.2	10.1	19	26	16.5	20.2
Cobalt	7440-48-4	NS	mg/kg	16.5	8.98	14.8	11.3	2.25	7.69	6.11	9.46	4.85	11	1.99	2.24	4.53	4	7.47	7.53	7.75	7.34
Copper	7440-50-8	270	mg/kg	45.7	50.9	34.1	32.3	6	64.7	21.3	40.5	46.5	156	3.91	8.81	23.5	12.6	22.8	38.7	19.4	29.5
Cyanide	57-12-5	27	mg/kg	<0.531 U	<0.56 U	<0.537 U	<0.669 U	<0.585 U	<0.555 U	<0.56 U	<0.786 U	<0.573 U	<0.592 U	<0.535 U	<0.543 U	<0.53 U	<0.542 U	<0.541 U	<0.582 U	<0.544 U	<0.57 U
Iron	7439-89-6	NS	mg/kg	27,700	23,500	26,100	33,300	3,940	17,100	11,500	30,800	11,400	16,600	3,710	10,600	10,900	7,980	15,000	21,100	11,800	15,300
Lead	7439-92-1	**400**	mg/kg	11.5	122	13.2	**1,130**	7.91	138	18.8	90.7	113	178	5.85	8.12	85	37.8	61.4	124	24.2	163
Magnesium	7439-95-4	NS	mg/kg	10,000	3,230	8,840	6,570	1,210	2,870	3,010	6,860	2,180	3,570	1,040	1,230	2,200	1,250	2,630	2,820	3,520	2,490
Manganese	7439-96-5	2000	mg/kg	242	334	266	205	83.9	145	157	288	157	238	49.2	81.7	208	118	239	438	186	259
Mercury	7439-97-6	**0.81**	mg/kg	<0.0318 U	<0.0336 U	<0.0322 U	0.0854	0.0971	0.238	0.0458	0.373	0.491	0.757	<0.0321 U	0.436	<0.0318 U	0.17	0.0703	0.23	0.083	0.117
Nickel	7440-02-0	310	mg/kg	25.3	23.6	25.7	70.8	4.07	36.5	11.1	31.8	13.7	42.1	3.68	4.63	11.9	7.8	17.7	21.9	12.7	18.4
Potassium	7440-09-7	NS	mg/kg	7,410	1,660	6,720	4,600	603	1,520	2,060	4,990	1,210	2,810	805	709	873	693	1,120	1,260	2,150	1,180
Selenium	7782-49-2	180	mg/kg	<2.21 U	<2.33 U	<2.24 U	<2.79 U	<2.44 U	<2.31 U	<2.33 U	<3.28 U	<2.39 U	<2.47 U	<2.23 U	<2.26 U	<2.21 U	<2.26 U	<2.25 U	<2.43 U	<2.27 U	<2.38 U
Silver	7440-22-4	180	mg/kg	<0.446 U	<0.47 U	<0.451 U	<0.562 U	<0.491 U	<0.467 U	<0.47 U	<0.66 U	<0.481 U	12	<0.449 U	<0.456 U	<0.445 U	<0.455 U	<0.454 U	<0.489 U	<0.457 U	<0.479 U
Sodium	7440-23-5	NS	mg/kg	389	127	232	243	<48.7 U	376	142	630	106	283	51.1	75.6	108	91.3	161	156	114	136
Thallium	7440-28-0	NS	mg/kg	<1.77 U	<1.87 U	<1.79 U	<2.24 U	<1.95 U	<1.86 U	<1.87 U	<2.63 U	<1.91 U	<1.98 U	<1.79 U	<1.82 U	<1.77 U	<1.81 U	<1.81 U	<1.95 U	<1.82 U	<1.9 U
Vanadium	7440-62-2	NS	mg/kg	59.9	30.1	41	53.7	7.71	35.9	24.8	53.1	16.7	29.9	8.3	8.31	19.2	25.6	26.5	33	20.9	41.8
Zinc	7440-66-6	10000	mg/kg	70.8	172	70.8	132	16.2	195	46.9	81.6	117	243	14.2	24.6	81.4	42.5	57.1	147	49.4	86.1

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB26	SB26	SB27	SB27	SB28	SB28	SB29	SB29	SB30	SB30	SB31	SB31	SB32	SB32	SB33	SB33	SB34	SB34
			Sample Name	SB26_0-2	SB26_5-7	SB27_0-2	SB27_5-7	SB28_0-2	SB28_5-7	SB29_0-2	SB29_5-7	SB30_0-2	SB30_5-7	SB31_0-2	SB31_5-7	SB32_0-2	SB32_5-7	SB33_0-2	SB33_5-7	SB34_0-2	SB34_5-7
			Sample Date	03/05/2025	03/05/2025	03/05/2025	03/05/2025	03/05/2025	03/05/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025
			Sample Depth	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Per- and Polyfluoroalkyl Substances																					
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	NS	mg/kg	NA	NA	<0.00081 U	NA	NA	NA	NA	NA	NA	NA	<0.000807 U	NA	NA	NA	NA	NA	<0.000822 U	NA
1H,1H,2H,2H-Perfluorodecane Sulfonic Acid (8:2FTS)	39108-34-4	NS	mg/kg	NA	NA	<0.000823 U	NA	NA	NA	NA	NA	NA	NA	<0.000819 U	NA	NA	NA	NA	NA	<0.000835 U	NA
1H,1H,2H,2H-Perfluorohexane Sulfonic Acid (4:2 FTS)	757124-72-4	NS	mg/kg	NA	NA	<0.000803 U	NA	NA	NA	NA	NA	NA	NA	<0.0008 U	NA	NA	NA	NA	NA	<0.000816 U	NA
1H,1H,2H,2H-Perfluorooctane Sulfonic Acid (6:2 FTS)	27619-97-2	NS	mg/kg	NA	NA	<0.000814 U	NA	NA	NA	NA	NA	NA	NA	<0.000811 U	NA	NA	NA	NA	NA	<0.000827 U	NA
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3 FTCA)	914637-49-3	NS	mg/kg	NA	NA	<0.00536 U	NA	NA	NA	NA	NA	NA	NA	<0.00533 U	NA	NA	NA	NA	NA	<0.00544 U	NA
3-Perfluoroheptyl Propanoic Acid (7:3 FTCA)	812-70-4	NS	mg/kg	NA	NA	<0.00536 U	NA	NA	NA	NA	NA	NA	NA	<0.00533 U	NA	NA	NA	NA	NA	<0.00544 U	NA
3-Perfluoropropyl Propanoic Acid (3:3 FTCA)	356-02-5	NS	mg/kg	NA	NA	<0.00107 U	NA	NA	NA	NA	NA	NA	NA	<0.00107 U	NA	NA	NA	NA	NA	<0.00109 U	NA
4,8-Dioxa-3H-perfluorononanoic Acid (ADONA)	919005-14-4	NS	mg/kg	NA	NA	<0.00081 U	NA	NA	NA	NA	NA	NA	NA	<0.000807 U	NA	NA	NA	NA	NA	<0.000822 U	NA
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	NS	mg/kg	NA	NA	<0.000801 U	NA	NA	NA	NA	NA	NA	NA	<0.000798 U	NA	NA	NA	NA	NA	<0.000814 U	NA
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	NS	mg/kg	NA	NA	<0.000857 U	NA	NA	NA	NA	NA	NA	NA	<0.000854 U	NA	NA	NA	NA	NA	<0.00087 U	NA
N-ethyl Perfluorooctanesulfonamide (NEtFOSA)	4151-50-2	NS	mg/kg	NA	NA	<0.000214 U	NA	NA	NA	NA	NA	NA	NA	<0.000213 U	NA	NA	NA	NA	NA	<0.000218 U	NA
N-ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	mg/kg	NA	NA	<0.000214 U	NA	NA	NA	NA	NA	NA	NA	<0.000213 U	NA	NA	NA	NA	NA	<0.000218 U	NA
N-ethyl Perfluorooctanesulfonamidoethanol (NEtFOSE)	1691-99-2	NS	mg/kg	NA	NA	<0.00214 U	NA	NA	NA	NA	NA	NA	NA	<0.00213 U	NA	NA	NA	NA	NA	<0.00218 U	NA
N-methyl Perfluorooctanesulfonamide (NMeFOSA)	31506-32-8	NS	mg/kg	NA	NA	<0.000214 U	NA	NA	NA	NA	NA	NA	NA	<0.000213 U	NA	NA	NA	NA	NA	<0.000218 U	NA
N-methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	mg/kg	NA	NA	<0.000214 U	NA	NA	NA	NA	NA	NA	NA	<0.000213 U	NA	NA	NA	NA	NA	<0.000218 U	NA
N-methyl Perfluorooctanesulfonamidoethanol (NMeFOSE)	24448-09-7	NS	mg/kg	NA	NA	<0.00214 U	NA	NA	NA	NA	NA	NA	NA	<0.00213 U	NA	NA	NA	NA	NA	<0.00218 U	NA
Nonafluoro-3,6-dioxaheptanoic Acid (NFDHA)	151772-58-6	NS	mg/kg	NA	NA	<0.000428 U	NA	NA	NA	NA	NA	NA	NA	<0.000427 U	NA	NA	NA	NA	NA	<0.000435 U	NA
Perfluoro(2-ethoxyethane)sulfonic Acid (PFEESA)	113507-82-7	NS	mg/kg	NA	NA	<0.000381 U	NA	NA	NA	NA	NA	NA	NA	<0.00038 U	NA	NA	NA	NA	NA	<0.000387 U	NA
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	NS	mg/kg	NA	NA	<0.000428 U	NA	NA	NA	NA	NA	NA	NA	<0.000427 U	NA	NA	NA	NA	NA	<0.000435 U	NA
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	NS	mg/kg	NA	NA	<0.000428 U	NA	NA	NA	NA	NA	NA	NA	<0.000427 U	NA	NA	NA	NA	NA	<0.000435 U	NA
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	mg/kg	NA	NA	<0.00019 U	NA	NA	NA	NA	NA	NA	NA	<0.000189 U	NA	NA	NA	NA	NA	<0.000193 U	NA
Perfluorobutanoic acid (PFBA)	375-22-4	NS	mg/kg	NA	NA	<0.000857 U	NA	NA	NA	NA	NA	NA	NA	<0.000854 U	NA	NA	NA	NA	NA	<0.00087 U	NA
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	mg/kg	NA	NA	<0.000207 U	NA	NA	NA	NA	NA	NA	NA	<0.000206 U	NA	NA	NA	NA	NA	<0.00021 U	NA
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	mg/kg	NA	NA	<0.000214 U	NA	NA	NA	NA	NA	NA	NA	<0.000213 U	NA	NA	NA	NA	NA	<0.000218 U	NA
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	NS	mg/kg	NA	NA	<0.000208 U	NA	NA	NA	NA	NA	NA	NA	<0.000207 U	NA	NA	NA	NA	NA	<0.000211 U	NA
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	mg/kg	NA	NA	<0.000214 U	NA	NA	NA	NA	NA	NA	NA	<0.000213 U	NA	NA	NA	NA	NA	<0.000218 U	NA
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	mg/kg	NA	NA	<0.000214 U	NA	NA	NA	NA	NA	NA	NA	<0.000213 U	NA	NA	NA	NA	NA	<0.000218 U	NA
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	mg/kg	NA	NA	<0.000214 U	NA	NA	NA	NA	NA	NA	NA	<0.000213 U	NA	NA	NA	NA	NA	<0.000218 U	NA
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	mg/kg	NA	NA	<0.000196 U	NA	NA	NA	NA	NA	NA	NA	<0.000195 U	NA	NA	NA	NA	NA	<0.000199 U	NA
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	mg/kg	NA	NA	<0.000214 U	NA	NA	NA	NA	NA	NA	NA	<0.000213 U	NA	NA	NA	NA	NA	<0.000218 U	NA
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	NS	mg/kg	NA	NA	<0.000206 U	NA	NA	NA	NA	NA	NA	NA	<0.000205 U	NA	NA	NA	NA	NA	<0.000209 U	NA
Perfluorononanoic Acid (PFNA)	375-95-1	NS	mg/kg	NA	NA	<0.000214 U	NA	NA	NA	NA	NA	NA	NA	<0.000213 U	NA	NA	NA	NA	NA	<0.000218 U	NA
Perfluorooctanesulfonamide (PFOSA)	754-91-6	NS	mg/kg	NA	NA	<0.000214 U	NA	NA	NA	NA	NA	NA	NA	<0.000213 U	NA	NA	NA	NA	NA	<0.000218 U	NA
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.044	mg/kg	NA	NA	<0.000199 U	NA	NA	NA	NA	NA	NA	NA	<0.000198 U	NA	NA	NA	NA	NA	0.000519	NA
Perfluorooctanoic Acid (PFOA)	335-67-1	0.033	mg/kg	NA	NA	<0.000214 U	NA	NA	NA	NA	NA	NA	NA	<0.000213 U	NA	NA	NA	NA	NA	<0.000218 U	NA
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	mg/kg	NA	NA	<0.000428 U	NA	NA	NA	NA	NA	NA	NA	<0.000427 U	NA	NA	NA	NA	NA	<0.000435 U	NA
Perfluoropentansulfonic Acid (PFPeS)	2706-91-4	NS	mg/kg	NA	NA	<0.000201 U	NA	NA	NA	NA	NA	NA	NA	<0.000201 U	NA	NA	NA	NA	NA	<0.000204 U	NA
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	NS	mg/kg	NA	NA	<0.000214 U	NA	NA	NA	NA	NA	NA	NA	<0.000213 U	NA	NA	NA	NA	NA	<0.000218 U	NA
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	mg/kg	NA	NA	<0.000214 U	NA	NA	NA	NA	NA	NA	NA	<0.000213 U	NA	NA	NA	NA	NA	<0.000218 U	NA
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	mg/kg	NA	NA	<0.000214 U	NA	NA	NA	NA	NA	NA	NA	<0.000213 U	NA	NA	NA	NA	NA	<0.000218 U	NA
General Chemistry																					
Solids, Percent	SOLID	NS	Percent	94.2	89.4	93.2	74.7	85.5	90	89.3	63.6	87.3	84.4	93.5	92	94.3	92.3	92.4	85.8	91.9	87.7

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB35	SB35	SB36	SB36	SB37	SB37	SB38	SB38	SB39	SB39	SB40	SB40	SB41	SB41	SB42	SB42
			Sample Name	SB35_0-2	SB35_5-7	SB36_0-2	SB36_5-7	SB37_0-2	SB37_5-7	SB38_0-2	SB38_5-7	SB39_0-2	SB39_5-7	SB40_0-2	SB40_5-7	SB41_0-2	SB41_5-7	SB42_0-2	SB42_5-7
			Sample Date	03/10/2025	03/10/2025	03/10/2025	03/10/2025	03/10/2025	03/10/2025	03/10/2025	03/10/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025
			Sample Depth	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds																			
1,1,1,2-Tetrachloroethane	630-20-6	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
1,1,1-Trichloroethane	71-55-6	100	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
1,1,2-Trichloroethane	79-00-5	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
1,1-Dichloroethane	75-34-3	26	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
1,1-Dichloroethene	75-35-4	100	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
1,2,3-Trichlorobenzene	87-61-6	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
1,2,3-Trichloropropane	96-18-4	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
1,2,4-Trichlorobenzene	120-82-1	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
1,2,4-Trimethylbenzene	95-63-6	52	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
1,2-Dibromo-3-Chloropropane	96-12-8	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
1,2-Dichlorobenzene	95-50-1	100	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
1,2-Dichloroethane	107-06-2	3.1	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
1,2-Dichloropropane	78-87-5	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	52	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
1,3-Dichlorobenzene	541-73-1	49	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
1,4-Dichlorobenzene	106-46-7	13	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
2-Hexanone (MBK)	591-78-6	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Acetone	67-64-1	100	mg/kg	0.0073 J	0.0075	<0.013 U	0.011	0.016	0.024	0.018	0.018	0.024	0.03	0.0076 J	0.03	0.056	0.031	0.033	0.073
Acrolein	107-02-8	NS	mg/kg	<0.0097 U	<0.0069 U	<0.013 U	<0.0097 U	<0.0093 U	<0.011 U	<0.0091 U	<0.0085 U	<0.0087 U	<0.012 U	<0.012 U	<0.013 U	<0.01 U	<0.01 U	<0.011 U	<0.015 U
Acrylonitrile	107-13-1	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Benzene	71-43-2	4.8	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Bromochloromethane	74-97-5	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Bromodichloromethane	75-27-4	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Bromoform	75-25-2	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Bromomethane	74-83-9	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Carbon Disulfide	75-15-0	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Carbon Tetrachloride	56-23-5	2.4	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Chlorobenzene	108-90-7	100	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Chloroethane	75-00-3	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Chloroform	67-66-3	49	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Chloromethane	74-87-3	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Cis-1,2-Dichloroethene	156-59-2	100	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Cis-1,3-Dichloropropene	10061-01-5	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Cyclohexane	110-82-7	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Cymene	99-87-6	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Dibromochloromethane	124-48-1	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Dibromomethane	74-95-3	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Dichlorodifluoromethane	75-71-8	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Ethylbenzene	100-41-4	41	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Hexachlorobutadiene	87-68-3	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Isopropylbenzene (Cumene)	98-82-8	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
M,P-Xylene	179601-23-1	NS	mg/kg	<0.0097 U	<0.0069 U	<0.013 U	<0.0097 U	<0.0093 U	<0.011 U	<0.0091 U	<0.0085 U	<0.0087 U	<0.012 U	<0.012 U	<0.013 U	<0.01 U	<0.01 U	<0.011 U	<0.015 U
Methyl Acetate	79-20-9	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	100	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	0.0059	0.0061	0.0056	0.0068	0.01	0.0096	<0.0059 U	0.0085	0.02	0.011	0.012	0.025
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Methylcyclohexane	108-87-2	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Methylene Chloride	75-09-2	100	mg/kg	<0.0097 U	<0.0069 U	<0.013 U	<0.0097 U	<0.0093 U	<0.011 U	<0.0091 U	<0.0085 U	<0.0087 U	<0.012 U	<0.012 U	<0.013 U	<0.01 U	<0.01 U	<0.011 U	<0.015 U
n-Butylbenzene	104-51-8	100	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
n-Propylbenzene	103-65-1	100	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Sec-Butylbenzene	135-98-8	100	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Styrene	100-42-5	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
T-Butylbenzene	98-06-6	100	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Tert-Butyl Alcohol	75-65-0	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Tert-Butyl Methyl Ether	1634-04-4	100	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Tetrachloroethene (PCE)	127-18-4	19	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Toluene	108-88-3	100	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Total Xylenes	1330-20-7	100	mg/kg	<0.015 U	<0.01 U	<0.019 U	<0.015 U	<0.014 U	<0.016 U	<0.014 U	<0.013 U	<0.013 U	<0.018 U	<0.018 U	<0.019 U	<0.016 U	<0.015 U	<0.017 U	<0.022 U
Trans-1,2-Dichloroethene	156-60-5	100	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Trans-1,3-Dichloropropene	10061-02-6	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Trichloroethene (TCE)	79-01-6	21	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Trichlorofluoromethane	75-69-4	NS	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U
Vinyl Chloride	75-01-4	0.9	mg/kg	<0.0049 U	<0.0035 U	<0.0063 U	<0.0049 U	<0.0047 U	<0.0053 U	<0.0046 U	<0.0043 U	<0.0044 U	<0.0061 U	<0.0059 U	<0.0063 U	<0.0052 U	<0.0051 U	<0.0056 U	<0.0074 U

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB35	SB35	SB36	SB36	SB37	SB37	SB38	SB38	SB39	SB39	SB40	SB40	SB41	SB41	SB42	SB42
			Sample Name	SB35_0-2	SB35_5-7	SB36_0-2	SB36_5-7	SB37_0-2	SB37_5-7	SB38_0-2	SB38_5-7	SB39_0-2	SB39_5-7	SB40_0-2	SB40_5-7	SB41_0-2	SB41_5-7	SB42_0-2	SB42_5-7
			Sample Date	03/10/2025	03/10/2025	03/10/2025	03/10/2025	03/10/2025	03/10/2025	03/10/2025	03/10/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025
			Sample Depth	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds																			
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	mg/kg	<0.188 U	<0.182 U	<0.187 U	<0.179 U	<0.18 U	<0.18 U	<0.18 U	<0.185 U	<0.182 U	<0.189 U	<0.18 U	<0.213 U	<0.177 U	<0.204 U	<0.172 U	<0.238 U
1,2-Diphenylhydrazine	122-66-7	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
1,4-Dioxane (P-Dioxane)	123-91-1	13	mg/kg	<0.0185 U	<0.0185 U	<0.0185 U	<0.0185 U	<0.0185 U	<0.0185 U	<0.0185 U	<0.0185 U	<0.0185 U	<0.0198 U	<0.0183 U	<0.0183 U	<0.0185 U	<0.019 U	<0.0196 U	<0.0183 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	mg/kg	<0.188 U	<0.182 U	<0.187 U	<0.179 U	<0.18 U	<0.18 U	<0.18 U	<0.185 U	<0.182 U	<0.189 U	<0.18 U	<0.213 U	<0.177 U	<0.204 U	<0.172 U	<0.238 U
2,4,5-Trichlorophenol	95-95-4	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
2,4,6-Trichlorophenol	88-06-2	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
2,4-Dichlorophenol	120-83-2	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
2,4-Dimethylphenol	105-67-9	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
2,4-Dinitrophenol	51-28-5	NS	mg/kg	<0.188 U	<0.182 U	<0.187 U	<0.179 U	<0.18 U	<0.18 U	<0.18 U	<0.185 U	<0.182 U	<0.189 U	<0.18 U	<0.213 U	<0.177 U	<0.204 U	<0.172 U	<0.238 U
2,4-Dinitrotoluene	121-14-2	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
2,6-Dinitrotoluene	606-20-2	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
2-Chloronaphthalene	91-58-7	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
2-Chlorophenol	95-57-8	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
2-Methylnaphthalene	91-57-6	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	0.0894 JD	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	0.219 D	<0.102 U	0.0653 JD	0.167 D
2-Methylphenol (o-Cresol)	95-48-7	100	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
2-Nitroaniline	88-74-4	NS	mg/kg	<0.188 U	<0.182 U	<0.187 U	<0.179 U	<0.18 U	<0.18 U	<0.18 U	<0.185 U	<0.182 U	<0.189 U	<0.18 U	<0.213 U	<0.177 U	<0.204 U	<0.172 U	<0.238 U
2-Nitrophenol	88-75-5	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	100	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	0.0575 JD	<0.102 U	0.044 JD	<0.119 U
3,3'-Dichlorobenzidine	91-94-1	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
3-Nitroaniline	99-09-2	NS	mg/kg	<0.188 U	<0.182 U	<0.187 U	<0.179 U	<0.18 U	<0.18 U	<0.18 U	<0.185 U	<0.182 U	<0.189 U	<0.18 U	<0.213 U	<0.177 U	<0.204 U	<0.172 U	<0.238 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	mg/kg	<0.188 U	<0.182 U	<0.187 U	<0.179 U	<0.18 U	<0.18 U	<0.18 U	<0.185 U	<0.182 U	<0.189 U	<0.18 U	<0.213 U	<0.177 U	<0.204 U	<0.172 U	<0.238 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
4-Chloro-3-Methylphenol	59-50-7	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
4-Chloroaniline	106-47-8	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
4-Nitroaniline	100-01-6	NS	mg/kg	<0.188 U	<0.182 U	<0.187 U	<0.179 U	<0.18 U	<0.18 U	<0.18 U	<0.185 U	<0.182 U	<0.189 U	<0.18 U	<0.213 U	<0.177 U	<0.204 U	<0.172 U	<0.238 U
4-Nitrophenol	100-02-7	NS	mg/kg	<0.188 U	<0.182 U	<0.187 U	<0.179 U	<0.18 U	<0.18 U	<0.18 U	<0.185 U	<0.182 U	<0.189 U	<0.18 U	<0.213 U	<0.177 U	<0.204 U	<0.172 U	<0.238 U
Acenaphthene	83-32-9	100	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	0.0577 JD	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	0.487 D	1.21 D	<0.102 U	0.146 D	0.29 D
Acenaphthylene	208-96-8	100	mg/kg	<0.0941 U	0.0641 JD	0.0636 JD	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	0.908 D	<0.102 U	1.91 D	0.0627 JD
Acetophenone	98-86-2	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	NS	mg/kg	<0.377 U	<0.365 U	<0.375 U	<0.359 U	<0.361 U	<0.361 U	<0.36 U	<0.371 U	<0.364 U	<0.379 U	<0.361 U	<0.427 U	<0.356 U	<0.408 U	<0.344 U	<0.476 U
Anthracene	120-12-7	100	mg/kg	<0.0941 U	0.0742 JD	0.0636 JD	<0.0896 U	0.0599 JD	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	4.68 D	<0.102 U	1.79 D	0.236 D
Atrazine	1912-24-9	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
Benzaldehyde	100-52-7	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
Benzidine	92-87-5	NS	mg/kg	<0.377 U	<0.365 U	<0.375 U	<0.359 U	<0.361 U	<0.361 U	<0.36 U	<0.371 U	<0.364 U	<0.379 U	<0.361 U	<0.427 U	<0.356 U	<0.408 U	<0.344 U	<0.476 U
Benzo(a)anthracene	56-55-3	1	mg/kg	0.145 D	0.199 D	0.192 D	0.0466 JD	0.093 D	0.09 JD	0.0855 JD	0.0497 JD	0.0756 JD	0.0567 JD	0.133 D	<0.107 U	**14.4 D**	0.0905 JD	**5.37 D**	0.926 D
Benzo(a)pyrene	50-32-8	1	mg/kg	0.152 D	0.202 D	0.209 D	<0.0896 U	0.0649 JD	0.0771 JD	0.0661 JD	<0.0927 U	0.0625 JD	0.0492 JD	0.133 D	<0.107 U	**11.4 D**	0.0921 JD	**4.59 D**	**1.52 D**
Benzo(b)fluoranthene	205-99-2	1	mg/kg	0.203 D	0.258 D	0.286 D	0.048 JD	0.0851 JD	0.107 D	0.092 D	0.0556 JD	0.061 JD	0.0499 JD	0.132 D	<0.107 U	**9.64 D**	0.0766 JD	**4.54 D**	0.965 D
Benzo(g,h,i)Perylene	191-24-2	100	mg/kg	0.113 D	0.122 D	0.141 D	<0.0896 U	<0.0902 U	0.0562 JD	0.0453 JD	<0.0927 U	<0.0909 U	<0.0946 U	0.0987 D	<0.107 U	6.31 D	0.0603 JD	1.91 D	1.16 D
Benzo(k)fluoranthene	207-08-9	3.9	mg/kg	0.076 JD	0.0837 JD	0.098 D	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	0.0603 JD	<0.0946 U	0.115 D	<0.107 U	**9.74 D**	0.0831 JD	3.78 D	0.84 D
Benzoic Acid	65-85-0	NS	mg/kg	<0.0941 U	<0.0911 U	0.0471 JD	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
Benzyl Alcohol	100-51-6	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
Benzyl Butyl Phthalate	85-68-7	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	0.0476 JD	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	0.0769 JD	<0.119 U
Biphenyl (Diphenyl)	92-52-4	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	0.0511 JD	<0.102 U	<0.0859 U	<0.119 U
Bis(2-chloroethoxy) methane	111-91-1	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
Bis(2-chloroisopropyl) ether	108-60-1	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
Bis(2-ethylhexyl) phthalate	117-81-7	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	0.0462 JD	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	0.242 D	<0.0901 U	0.556 D	<0.0888 U	<0.102 U	0.222 D	3.8 D
Caprolactam	105-60-2	NS	mg/kg	<0.188 U	<0.182 U	<0.187 U	<0.179 U	<0.18 U	<0.18 U	<0.18 U	<0.185 U	<0.182 U	<0.189 U	<0.18 U	<0.213 U	<0.177 U	<0.204 U	<0.172 U	<0.238 U
Carbazole	86-74-8	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	1.64 D	<0.102 U	0.332 D	<0.119 U
Chrysene	218-01-9	3.9	mg/kg	0.138 D	0.188 D	0.184 D	<0.0896 U	0.0837 JD	0.0799 JD	0.0755 JD	0.0474 JD	0.0821 JD	0.0681 JD	0.138 D	<0.107 U	**12.7 D**	0.0962 JD	**5.45 D**	1.22 D
Dibenz(a,h)anthracene	53-70-3	0.33	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	**1.62 D**	<0.102 U	**0.699 D**	**0.354 D**
Dibenzofuran	132-64-9	59	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	0.0591 JD	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	0.152 D	0.769 D	<0.102 U	0.334 D	<0.119 U
Dibutyl phthalate	84-74-2	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
Diethyl phthalate	84-66-2	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
Dimethyl phthalate	131-11-3	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
Dioctyl phthalate	117-84-0	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
Diphenylamine	122-39-4	NS	mg/kg	<0.188 U	<0.182 U	<0.187 U	<0.179 U	<0.18 U	<0.18 U	<0.18 U	<0.185 U	<0.182 U	<0.189 U	<0.18 U	<0.213 U	<0.177 U	<0.204 U	<0.172 U	<0.238 U
Fluoranthene	206-44-0	100	mg/kg	0.259 D	0.375 D	0.304 D	0.0745 JD	0.216 D	0.171 D	0.183 D	0.089 JD	0.204 D	0.0968 D	0.24 D	0.0733 JD	27.4 D	0.166 D	12.9 D	0.75 D
Fluorene	86-73-7	100	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	0.0628 JD	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	0.234 D	1.6 D	<0.102 U	0.902 D	0.154 D
Hexachlorobenzene	118-74-1	1.2	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
Hexachlorobutadiene	87-68-3	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
Hexachlorocyclopentadiene	77-47-4	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
Hexachloroethane	67-72-1	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	mg/kg	0.104 D	0.128 D	0.149 D	<0.0896 U	<0.0902 U	0.0533 JD	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	0.0728 JD	<0.107 U	**7.2 D**	<0.102 U	**1.81 D**	**0.758 D**
Isophorone	78-59-1	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
Naphthalene	91-20-3	100	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	0.102 D	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	0.187 D	<0.0901 U	<0.107 U	0.309 D	<0.102 U	0.137 D	0.278 D
Nitrobenzene	98-95-3	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
n-Nitrosodimethylamine	62-75-9	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
n-Nitrosodiphenylamine	86-30-6	NS	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
Pentachlorophenol	87-86-5	6.7	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
Phenanthrene	85-01-8	100	mg/kg	0.117 D	0.228 D	0.114 D	<0.0896 U	0.256 D	0.112 D	0.13 D	0.0474 JD	0.163 D	0.0605 JD	0.0994 D	0.334 D	18.7 D	0.088 JD	8.67 D	0.853 D
Phenol	108-95-2	100	mg/kg	<0.0941 U	<0.0911 U	<0.0936 U	<0.0896 U	<0.0902 U	<0.0901 U	<0.0899 U	<0.0927 U	<0.0909 U	<0.0946 U	<0.0901 U	<0.107 U	<0.0888 U	<0.102 U	<0.0859 U	<0.119 U
Pyrene	129-00-0	100	mg/kg	0.235 D	0.337 D	0.297 D	0.0709 JD	0.17 D	0.15 D	0.165 D	0.083 JD	0.158 D	0.0983 D	0.218 D	0.0631 JD	24.1 D	0.17 D	11 D	1.6 D
Pyridine	110-86-1	NS	mg/kg	<0.377 U	<0.365 U	<0.375 U	<0.359 U	<0.361 U	<0.361 U	<0.36 U	<0.371 U	<0.364 U	<0.379 U	<0.361 U	<0.427 U	<0.356 U	<0.408 U	<0.344 U	<0.476 U

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB35	SB35	SB36	SB36	SB37	SB37	SB38	SB38	SB39	SB39	SB40	SB40	SB41	SB41	SB42	SB42
			Sample Name	SB35_0-2	SB35_5-7	SB36_0-2	SB36_5-7	SB37_0-2	SB37_5-7	SB38_0-2	SB38_5-7	SB39_0-2	SB39_5-7	SB40_0-2	SB40_5-7	SB41_0-2	SB41_5-7	SB42_0-2	SB42_5-7
			Sample Date	03/10/2025	03/10/2025	03/10/2025	03/10/2025	03/10/2025	03/10/2025	03/10/2025	03/10/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025
			Sample Depth	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides																			
4,4'-DDD	72-54-8	13	mg/kg	<0.00186 U	<0.0018 U	<0.00185 U	<0.00176 U	<0.00177 U	<0.00181 U	<0.00179 U	0.0058 D	<0.00177 U	0.316 D	0.00491 D	<0.00208 U	0.00191 DP	<0.00202 U	<0.00168 U	<0.00232 U
4,4'-DDE	72-55-9	8.9	mg/kg	<0.00186 U	<0.0018 U	<0.00185 U	<0.00176 U	<0.00177 U	<0.00181 U	<0.00179 U	<0.00185 U	<0.00177 U	0.00676 D	0.002 D	<0.00208 U	<0.00173 U	<0.00202 U	<0.00168 U	<0.00232 U
4,4'-DDT	50-29-3	7.9	mg/kg	<0.00186 U	<0.0018 U	0.00418 D	<0.00176 U	<0.00177 U	<0.00181 U	<0.00179 U	<0.00185 U	<0.00177 U	<0.00185 U	<0.00177 U	<0.00208 U	<0.00173 U	<0.00202 U	<0.00168 U	<0.00232 U
Aldrin	309-00-2	0.097	mg/kg	<0.00186 U	<0.0018 U	<0.00185 U	<0.00176 U	<0.00177 U	<0.00181 U	<0.00179 U	<0.00185 U	<0.00177 U	<0.00185 U	<0.00177 U	<0.00208 U	<0.00173 U	<0.00202 U	<0.00168 U	<0.00232 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.48	mg/kg	<0.00186 U	<0.0018 U	<0.00185 U	<0.00176 U	<0.00177 U	<0.00181 U	<0.00179 U	<0.00185 U	<0.00177 U	<0.00185 U	<0.00177 U	<0.00208 U	<0.00173 U	<0.00202 U	<0.00168 U	<0.00232 U
Alpha Chlordane	5103-71-9	4.2	mg/kg	<0.00186 U	<0.0018 U	0.00277 D	<0.00176 U	<0.00177 U	<0.00181 U	<0.00179 U	<0.00185 U	<0.00177 U	<0.00185 U	0.00179 D	<0.00208 U	0.00329 D	<0.00202 U	0.00254 D	<0.00232 U
Alpha Endosulfan	959-98-8	24	mg/kg	<0.00186 U	<0.0018 U	<0.00185 U	<0.00176 U	<0.00177 U	<0.00181 U	<0.00179 U	<0.00185 U	<0.00177 U	<0.00185 U	<0.00177 U	<0.00208 U	<0.00173 U	<0.00202 U	<0.00168 U	<0.00232 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.36	mg/kg	<0.00186 U	<0.0018 U	<0.00185 U	<0.00176 U	<0.00177 U	<0.00181 U	<0.00179 U	<0.00185 U	<0.00177 U	<0.00185 U	<0.00177 U	<0.00208 U	<0.00173 U	<0.00202 U	<0.00168 U	<0.00232 U
Beta Endosulfan	33213-65-9	24	mg/kg	<0.00186 U	<0.0018 U	<0.00185 U	<0.00176 U	<0.00177 U	<0.00181 U	<0.00179 U	<0.00185 U	<0.00177 U	<0.00185 U	<0.00177 U	<0.00208 U	<0.00173 U	<0.00202 U	<0.00168 U	<0.00232 U
Chlordane (alpha and gamma)	57-74-9	NS	mg/kg	<0.0372 U	<0.036 U	<0.037 U	<0.0351 U	<0.0354 U	<0.0361 U	<0.0358 U	<0.0369 U	<0.0355 U	<0.0369 U	<0.0354 U	<0.0416 U	<0.0347 U	<0.0405 U	<0.0336 U	<0.0464 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	100	mg/kg	<0.00186 U	<0.0018 U	<0.00185 U	<0.00176 U	<0.00177 U	<0.00181 U	<0.00179 U	<0.00185 U	<0.00177 U	<0.00185 U	<0.00177 U	<0.00208 U	<0.00173 U	<0.00202 U	<0.00168 U	<0.00232 U
Dieldrin	60-57-1	0.2	mg/kg	<0.00186 U	<0.0018 U	0.00259 D	<0.00176 U	<0.00177 U	<0.00181 U	<0.00179 U	<0.00185 U	<0.00177 U	<0.00185 U	<0.00177 U	<0.00208 U	0.00282 D	<0.00202 U	0.00351 D	<0.00232 U
Endosulfan Sulfate	1031-07-8	24	mg/kg	<0.00186 U	<0.0018 U	<0.00185 U	<0.00176 U	<0.00177 U	<0.00181 U	<0.00179 U	<0.00185 U	<0.00177 U	<0.00185 U	<0.00177 U	<0.00208 U	<0.00173 U	<0.00202 U	<0.00168 U	<0.00232 U
Endrin	72-20-8	11	mg/kg	<0.00186 U	<0.0018 U	<0.00185 U	<0.00176 U	<0.00177 U	<0.00181 U	<0.00179 U	<0.00185 U	<0.00177 U	<0.00185 U	<0.00177 U	<0.00208 U	<0.00173 U	<0.00202 U	<0.00168 U	<0.00232 U
Endrin Aldehyde	7421-93-4	NS	mg/kg	<0.00186 U	<0.0018 U	<0.00185 U	<0.00176 U	<0.00177 U	<0.00181 U	<0.00179 U	<0.00185 U	<0.00177 U	<0.00185 U	<0.00177 U	<0.00208 U	<0.00173 U	<0.00202 U	<0.00168 U	<0.00232 U
Endrin Ketone	53494-70-5	NS	mg/kg	<0.00186 U	<0.0018 U	<0.00185 U	<0.00176 U	<0.00177 U	<0.00181 U	<0.00179 U	<0.00185 U	<0.00177 U	<0.00185 U	<0.00177 U	<0.00208 U	<0.00173 U	<0.00202 U	<0.00168 U	<0.00232 U
Gamma Bhc (Lindane)	58-89-9	1.3	mg/kg	<0.00186 U	<0.0018 U	<0.00185 U	<0.00176 U	<0.00177 U	<0.00181 U	<0.00179 U	<0.00185 U	<0.00177 U	<0.00185 U	<0.00177 U	<0.00208 U	<0.00173 U	<0.00202 U	<0.00168 U	<0.00232 U
Gamma-Chlordane	5566-34-7	NS	mg/kg	<0.00186 U	<0.0018 U	0.00302 D	<0.00176 U	<0.00177 U	<0.00181 U	0.00207 D	<0.00185 U	<0.00177 U	<0.00185 U	0.00202 DP	<0.00208 U	0.00323 D	<0.00202 U	0.00327 D	<0.00232 U
Heptachlor	76-44-8	2.1	mg/kg	<0.00186 U	<0.0018 U	<0.00185 U	<0.00176 U	<0.00177 U	<0.00181 U	<0.00179 U	<0.00185 U	<0.00177 U	<0.00185 U	<0.00177 U	<0.00208 U	<0.00173 U	<0.00202 U	<0.00168 U	<0.00232 U
Heptachlor Epoxide	1024-57-3	NS	mg/kg	<0.00186 U	<0.0018 U	<0.00185 U	<0.00176 U	<0.00177 U	<0.00181 U	<0.00179 U	<0.00185 U	<0.00177 U	<0.00185 U	<0.00177 U	<0.00208 U	<0.00173 U	<0.00202 U	<0.00168 U	<0.00232 U
Methoxychlor	72-43-5	NS	mg/kg	<0.00186 U	<0.0018 U	<0.00185 U	<0.00176 U	<0.00177 U	<0.00181 U	<0.00179 U	<0.00185 U	<0.00177 U	<0.00185 U	<0.00177 U	<0.00208 U	<0.00173 U	<0.00202 U	<0.00168 U	<0.00232 U
Toxaphene	8001-35-2	NS	mg/kg	<0.186 U	<0.18 U	<0.185 U	<0.176 U	<0.177 U	<0.181 U	<0.179 U	<0.185 U	<0.177 U	<0.185 U	<0.177 U	<0.208 U	<0.173 U	<0.202 U	<0.168 U	<0.232 U
Herbicides																			
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	NS	mg/kg	<0.0224 U	<0.0217 U	<0.0223 U	<0.0214 U	<0.0215 U	<0.0216 U	<0.0216 U	<0.0223 U	<0.0215 U	<0.0225 U	<0.0215 U	<0.0252 U	<0.0213 U	<0.0249 U	<0.0206 U	<0.0285 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	NS	mg/kg	<0.0224 U	<0.0217 U	<0.0223 U	<0.0214 U	<0.0215 U	<0.0216 U	<0.0216 U	<0.0223 U	<0.0215 U	<0.0225 U	<0.0215 U	<0.0252 U	<0.0213 U	<0.0249 U	<0.0206 U	<0.0285 U
Silvex (2,4,5-Tp)	93-72-1	100	mg/kg	<0.0224 U	<0.0217 U	<0.0223 U	<0.0214 U	<0.0215 U	<0.0216 U	<0.0216 U	<0.0223 U	<0.0215 U	<0.0225 U	<0.0215 U	<0.0252 U	<0.0213 U	<0.0249 U	<0.0206 U	<0.0285 U
Polychlorinated Biphenyl																			
PCB-1016 (Aroclor 1016)	12674-11-2	NS	mg/kg	<0.0188 U	<0.0182 U	<0.0187 U	<0.0177 U	<0.0178 U	<0.0182 U	<0.0181 U	<0.0186 U	<0.0179 U	<0.0186 U	<0.0179 U	<0.021 U	<0.0175 U	<0.0204 U	<0.0169 U	<0.0234 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	mg/kg	<0.0188 U	<0.0182 U	<0.0187 U	<0.0177 U	<0.0178 U	<0.0182 U	<0.0181 U	<0.0186 U	<0.0179 U	<0.0186 U	<0.0179 U	<0.021 U	<0.0175 U	<0.0204 U	<0.0169 U	<0.0234 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	mg/kg	<0.0188 U	<0.0182 U	<0.0187 U	<0.0177 U	<0.0178 U	<0.0182 U	<0.0181 U	<0.0186 U	<0.0179 U	<0.0186 U	<0.0179 U	<0.021 U	<0.0175 U	<0.0204 U	<0.0169 U	<0.0234 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	mg/kg	<0.0188 U	<0.0182 U	<0.0187 U	<0.0177 U	<0.0178 U	<0.0182 U	<0.0181 U	<0.0186 U	<0.0179 U	<0.0186 U	<0.0179 U	<0.021 U	<0.0175 U	<0.0204 U	<0.0169 U	<0.0234 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	mg/kg	<0.0188 U	<0.0182 U	<0.0187 U	<0.0177 U	<0.0178 U	<0.0182 U	<0.0181 U	<0.0186 U	<0.0179 U	<0.0186 U	<0.0179 U	<0.021 U	<0.0175 U	<0.0204 U	<0.0169 U	<0.0234 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	mg/kg	<0.0188 U	<0.0182 U	<0.0187 U	<0.0177 U	<0.0178 U	<0.0182 U	<0.0181 U	<0.0186 U	<0.0179 U	<0.0186 U	<0.0179 U	<0.021 U	<0.0175 U	<0.0204 U	<0.0169 U	<0.0234 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	mg/kg	<0.0188 U	<0.0182 U	<0.0187 U	<0.0177 U	<0.0178 U	<0.0182 U	<0.0181 U	<0.0186 U	<0.0179 U	<0.0186 U	<0.0179 U	<0.021 U	<0.0175 U	<0.0204 U	<0.0169 U	<0.0234 U
Total PCBs	1336-36-3	1	mg/kg	<0.0188 U	<0.0182 U	<0.0187 U	<0.0177 U	<0.0178 U	<0.0182 U	<0.0181 U	<0.0186 U	<0.0179 U	<0.0186 U	<0.0179 U	<0.021 U	<0.0175 U	<0.0204 U	<0.0169 U	<0.0234 U
Metals																			
Aluminum	7429-90-5	NS	mg/kg	8,260	10,300	9,010	14,300	9,760	8,440	11,500	7,210	9,420	7,650	10,200	11,400	9,760	15,100	8,270	13,800
Antimony	7440-36-0	NS	mg/kg	<2.37 U	<2.3 U	<2.35 U	<2.26 U	<2.26 U	3	<2.28 U	<2.35 U	<2.28 U	<2.37 U	<2.27 U	<2.67 U	<2.23 U	<2.6 U	<2.15 U	<2.96 U
Arsenic	7440-38-2	**16**	mg/kg	4.63	2.94	4.06	3.37	2.55	3.41	3.66	3.03	5.59	5.56	6.94	3.12	5.26	6.79	3.15	**16.6**
Barium	7440-39-3	**400**	mg/kg	77.5	83.5	91.5	67.3	58.2	96.8	73.8	86.7	78.7	201	80	140	114	225	78	205
Beryllium	7440-41-7	72	mg/kg	0.355	0.386	0.329	0.466	0.447	0.348	0.426	0.294	0.324	0.327	0.43	0.4	0.425	0.594	0.286	0.358
Cadmium	7440-43-9	4.3	mg/kg	<0.285 U	<0.276 U	0.321	<0.271 U	<0.273 U	3.43	<0.274 U	0.301	<0.273 U	0.36	0.282	<0.321 U	0.525	0.582	<0.258 U	<0.358 U
Calcium	7440-70-2	NS	mg/kg	3,310	3,140	5,610	1,440	1,620	3,840	8,560	2,510	10,100	8,890	6,370	2,950	34,100	9,090	22,200	5,540
Chromium, Hexavalent	18540-29-9	110	mg/kg	<0.57 U	<0.551 U	<0.566 U	<0.543 U	<0.546 U	<0.549 U	<0.548 U	<0.565 U	<0.547 U	<0.569 U	<0.546 U	<0.641 U	<0.534 U	<0.623 U	<0.517 U	<0.715 U
Chromium, Total	7440-47-3	110	mg/kg	20.5	21.1	23.4	31.2	25.8	22.5	23.2	18.7	27.9	24.3	27.7	23.9	19.2	31.3	20.1	45.1
Chromium, Trivalent	16065-83-1	180	mg/kg	20.5	21.1	23.4	31.2	25.8	22.5	23.2	18.7	27.9	24.3	27.7	23.9	19.2	31.3	20.1	45.1
Cobalt	7440-48-4	NS	mg/kg	7.27	7.69	7.72	10.9	9.15	9.44	8.44	6.41	8.7	7.28	8.72	8.45	6.85	10.9	7.56	10.8
Copper	7440-50-8	270	mg/kg	41.2	25.6	27.2	18.9	17.7	26.3	23.7	33.8	28.7	71.4	35.9	33.2	36.7	68.9	29.5	53.9
Cyanide	57-12-5	27	mg/kg	<0.57 U	<0.551 U	<0.566 U	<0.543 U	<0.546 U	<0.549 U	<0.548 U	<0.565 U	<0.547 U	<0.569 U	<0.546 U	<0.641 U	<0.534 U	<0.623 U	<0.517 U	<0.715 U
Iron	7439-89-6	NS	mg/kg	15,500	15,800	15,200	19,000	17,600	16,600	16,500	13,300	15,700	36,600	20,500	21,400	15,300	27,100	14,900	33,700
Lead	7439-92-1	**400**	mg/kg	97	66.7	76.6	36.3	13.9	167	87.3	80.6	161	88.5	79.8	32	304	231	46	358
Magnesium	7439-95-4	NS	mg/kg	2,650	3,250	3,630	2,810	2,700	2,600	3,850	2,160	3,760	1,870	3,680	2,760	18,200	4,110	6,360	4,300
Manganese	7439-96-5	2000	mg/kg	515	323	251	310	444	337	296	272	315	574	436	329	300	602	216	532
Mercury	7439-97-6	**0.81**	mg/kg	0.264	0.508	0.174	0.0568	<0.0328 U	0.272	0.0898	0.236	<0.0328 U	0.121	0.149	0.373	0.212	0.0853	0.0746	0.663
Nickel	7440-02-0	310	mg/kg	20.1	19.5	16.9	20.6	18.5	19.4	21.6	17.1	42.6	21.5	28.2	17.9	19.6	28.1	14.2	42
Potassium	7440-09-7	NS	mg/kg	915	1,560	1,780	1,210	1,470	1,280	1,500	1,190	1,850	883	1,700	1,270	1,370	2,320	2,800	3,000
Selenium	7782-49-2	180	mg/kg	<2.37 U	<2.3 U	<2.35 U	<2.26 U	<2.26 U	<2.29 U	<2.28 U	<2.35 U	<2.28 U	<2.37 U	<2.27 U	<2.67 U	<2.23 U	<2.6 U	<2.15 U	<2.96 U
Silver	7440-22-4	180	mg/kg	<0.479 U	<0.463 U	<0.476 U	<0.456 U	<0.459 U	<0.461 U	<0.46 U	<0.475 U	<0.459 U	<0.478 U	<0.458 U	<0.539 U	<0.449 U	<0.524 U	<0.434 U	<0.601 U
Sodium	7440-23-5	NS	mg/kg	92.3	165	98.5	103	64.2	265	110	123	90.9	172	159	179	145	265	189	255
Thallium	7440-28-0	NS	mg/kg	<1.9 U	<1.84 U	<1.89 U	<1.81 U	<1.82 U	<1.83 U	<1.83 U	<1.89 U	<1.83 U	<1.9 U	<1.82 U	<2.14 U	<1.78 U	<2.08 U	<1.73 U	<2.39 U
Vanadium	7440-62-2	NS	mg/kg	23.2	33.7	25.7	35	26.8	36.3	30.3	27.4	29.8	27.4	31.8	28.9	28.2	44.8	35.5	39.8
Zinc	7440-66-6	10000	mg/kg	135	67.3	155	38.6	37.2	96.7	69.1	86.7	95.3	136	116	114	114	238	63	287

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs	Location	SB35	SB35	SB36	SB36	SB37	SB37	SB38	SB38	SB39	SB39	SB40	SB40	SB41	SB41	SB42	SB42
			Sample Name	SB35_0-2	SB35_5-7	SB36_0-2	SB36_5-7	SB37_0-2	SB37_5-7	SB38_0-2	SB38_5-7	SB39_0-2	SB39_5-7	SB40_0-2	SB40_5-7	SB41_0-2	SB41_5-7	SB42_0-2	SB42_5-7
			Sample Date	03/10/2025	03/10/2025	03/10/2025	03/10/2025	03/10/2025	03/10/2025	03/10/2025	03/10/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025
			Sample Depth	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7	0-2	5-7
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Per- and Polyfluoroalkyl Substances																			
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000841 U	NA	NA	NA	NA	NA	NA	NA	<0.00108 U
1H,1H,2H,2H-Perfluorodecane Sulfonic Acid (8:2FTS)	39108-34-4	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000855 U	NA	NA	NA	NA	NA	NA	NA	<0.0011 U
1H,1H,2H,2H-Perfluorohexane Sulfonic Acid (4:2 FTS)	757124-72-4	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000835 U	NA	NA	NA	NA	NA	NA	NA	<0.00107 U
1H,1H,2H,2H-Perfluorooctane Sulfonic Acid (6:2 FTS)	27619-97-2	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000846 U	NA	NA	NA	NA	NA	NA	NA	<0.00108 U
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3 FTCA)	914637-49-3	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00556 U	NA	NA	NA	NA	NA	NA	NA	<0.00714 U
3-Perfluoroheptyl Propanoic Acid (7:3 FTCA)	812-70-4	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00556 U	NA	NA	NA	NA	NA	NA	NA	<0.00714 U
3-Perfluoropropyl Propanoic Acid (3:3 FTCA)	356-02-5	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00111 U	NA	NA	NA	NA	NA	NA	NA	<0.00143 U
4,8-Dioxa-3H-perfluorononanoic Acid (ADONA)	919005-14-4	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000841 U	NA	NA	NA	NA	NA	NA	NA	<0.00108 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000832 U	NA	NA	NA	NA	NA	NA	NA	<0.00107 U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00089 U	NA	NA	NA	NA	NA	NA	NA	<0.00114 U
N-ethyl Perfluorooctanesulfonamide (NEtFOSA)	4151-50-2	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000223 U	NA	NA	NA	NA	NA	NA	NA	<0.000286 U
N-ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000223 U	NA	NA	NA	NA	NA	NA	NA	<0.000286 U
N-ethyl Perfluorooctanesulfonamidoethanol (NEtFOSE)	1691-99-2	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00223 U	NA	NA	NA	NA	NA	NA	NA	<0.00286 U
N-methyl Perfluorooctanesulfonamide (NMeFOSA)	31506-32-8	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000223 U	NA	NA	NA	NA	NA	NA	NA	<0.000286 U
N-methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000223 U	NA	NA	NA	NA	NA	NA	NA	<0.000286 U
N-methyl Perfluorooctanesulfonamidoethanol (NMeFOSE)	24448-09-7	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00223 U	NA	NA	NA	NA	NA	NA	NA	<0.00286 U
Nonafluoro-3,6-dioxaheptanoic Acid (NFDHA)	151772-58-6	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000445 U	NA	NA	NA	NA	NA	NA	NA	<0.000571 U
Perfluoro(2-ethoxyethane)sulfonic Acid (PFEESA)	113507-82-7	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000396 U	NA	NA	NA	NA	NA	NA	NA	<0.000508 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000445 U	NA	NA	NA	NA	NA	NA	NA	<0.000571 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000445 U	NA	NA	NA	NA	NA	NA	NA	<0.000571 U
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000197 U	NA	NA	NA	NA	NA	NA	NA	<0.000253 U
Perfluorobutanoic acid (PFBA)	375-22-4	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.00089 U	NA	NA	NA	NA	NA	NA	NA	<0.00114 U
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000215 U	NA	NA	NA	NA	NA	NA	NA	<0.000276 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000223 U	NA	NA	NA	NA	NA	NA	NA	<0.000286 U
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000216 U	NA	NA	NA	NA	NA	NA	NA	<0.000277 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000223 U	NA	NA	NA	NA	NA	NA	NA	<0.000286 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000223 U	NA	NA	NA	NA	NA	NA	NA	<0.000286 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000223 U	NA	NA	NA	NA	NA	NA	NA	<0.000286 U
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000204 U	NA	NA	NA	NA	NA	NA	NA	<0.000261 U
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000223 U	NA	NA	NA	NA	NA	NA	NA	<0.000286 U
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000214 U	NA	NA	NA	NA	NA	NA	NA	<0.000274 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000223 U	NA	NA	NA	NA	NA	NA	NA	<0.000286 U
Perfluorooctanesulfonamide (PFOSA)	754-91-6	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000223 U	NA	NA	NA	NA	NA	NA	NA	<0.000286 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.044	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000207 U	NA	NA	NA	NA	NA	NA	NA	<0.000266 U
Perfluorooctanoic Acid (PFOA)	335-67-1	0.033	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000223 U	NA	NA	NA	NA	NA	NA	NA	<0.000286 U
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000445 U	NA	NA	NA	NA	NA	NA	NA	<0.000571 U
Perfluoropentansulfonic Acid (PFPeS)	2706-91-4	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000209 U	NA	NA	NA	NA	NA	NA	NA	<0.000268 U
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000223 U	NA	NA	NA	NA	NA	NA	NA	<0.000286 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000223 U	NA	NA	NA	NA	NA	NA	NA	<0.000286 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	mg/kg	NA	NA	NA	NA	NA	NA	NA	<0.000223 U	NA	NA	NA	NA	NA	NA	NA	<0.000286 U
General Chemistry																			
Solids, Percent	SOLID	NS	Percent	87.7	90.7	88.3	92.1	91.5	91	91.2	88.5	91.4	87.9	91.6	78	93.6	80.2	96.7	69.9

Table 2
Phase II Environmental Site Investigation Report
Soil Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Notes:
CAS - Chemical Abstract Service
NS - No standard
mg/kg - milligram per kilogram
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Restricted Use Restricted-Residential Soil Cleanup Objectives (SCO).

Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Part 375 Remedial Programs Guidelines for Sampling and Analysis of Per- and Polyfluoroalkyl Substances (PFAS) Restricted Use Restricted-Residential Guidance Values (April 2023).

Qualifiers:
D - The concentration reported is a result of a diluted sample.
J - The analyte was detected above the method detection limit (MDL), but below the RL; therefore, the result is an estimated concentration.
P - The relative percent difference (RPD) between the results for the two columns exceeds the method-specified criteria.
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

Exceedance Summary:
10 - Result exceeds Restricted Use Restricted-Residential SCOs

Table 3
Phase II Environmental Site Investigation Report
Groundwater Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC SGVs	Location	TMW01	TMW07	TMW10	TMW15	TMW20	TMW27	TMW31	TMW34	TMW34	TMW38	TMW42
			Sample Name	TMW01_022725	TMW07_022825	TMW10_022825	TMW15_030325	TMW20_030425	TMW27_030725	TMW31_030725	TMW34_031025	GWDUP01_031025	TMW38_031025	TMW42_031125
			Sample Date	02/27/2025	02/28/2025	02/28/2025	03/03/2025	03/04/2025	03/07/2025	03/07/2025	03/10/2025	03/10/2025	03/10/2025	03/11/2025
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds														
1,1,1,2-Tetrachloroethane	630-20-6	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,1-Trichloroethane	71-55-6	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2,2-Tetrachloroethane	79-34-5	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,2-Trichloroethane	79-00-5	1	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-Dichloroethane	75-34-3	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-Dichloroethene	75-35-4	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2,3-Trichlorobenzene	87-61-6	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2,3-Trichloropropane	96-18-4	0.04	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2,4-Trichlorobenzene	120-82-1	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2,4-Trimethylbenzene	95-63-6	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	0.48 J	<0.5 U
1,2-Dibromo-3-Chloropropane	96-12-8	0.04	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.0006	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-Dichlorobenzene	95-50-1	3	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-Dichloroethane	107-06-2	0.6	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,2-Dichloropropane	78-87-5	1	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,3-Dichlorobenzene	541-73-1	3	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,4-Dichlorobenzene	106-46-7	3	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	0.33 J
2-Hexanone (MBK)	591-78-6	50	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Acetone	67-64-1	50	ug/l	<2 U	1.6 J	<2 U	1.75 J	3.68	3.94	2.01	2.95	1.64 J	1.63 J	<2 U
Acrolein	107-02-8	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Acrylonitrile	107-13-1	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Benzene	71-43-2	1	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Bromochloromethane	74-97-5	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Bromodichloromethane	75-27-4	50	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Bromoform	75-25-2	50	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Bromomethane	74-83-9	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Carbon Disulfide	75-15-0	60	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Carbon Tetrachloride	56-23-5	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Chlorobenzene	108-90-7	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	1.59	1.56	2.2	0.49 J
Chloroethane	75-00-3	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Chloroform	67-66-3	7	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Chloromethane	74-87-3	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Cis-1,2-Dichloroethene	156-59-2	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Cis-1,3-Dichloropropene	10061-01-5	0.4	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Cyclohexane	110-82-7	NS	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Cymene	99-87-6	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Dibromochloromethane	124-48-1	50	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Dibromomethane	74-95-3	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Dichlorodifluoromethane	75-71-8	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Ethylbenzene	100-41-4	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Isopropylbenzene (Cumene)	98-82-8	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
M,P-Xylene	179601-23-1	5	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Methyl Acetate	79-20-9	NS	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Methyl Ethyl Ketone (2-Butanone)	78-93-3	50	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	0.47 J	0.79	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Methylcyclohexane	108-87-2	NS	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	0.5	0.55	<0.5 U	<0.5 U
Methylene Chloride	75-09-2	5	ug/l	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
n-Butylbenzene	104-51-8	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
n-Propylbenzene	103-65-1	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
o-Xylene (1,2-Dimethylbenzene)	95-47-6	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Sec-Butylbenzene	135-98-8	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Styrene	100-42-5	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
T-Butylbenzene	98-06-6	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	0.51	0.4 J	0.44 J	0.51	0.42 J
Tert-Butyl Alcohol	75-65-0	NS	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	0.97 J	4.23	3.9	<1 U	<1 U
Tert-Butyl Methyl Ether	1634-04-4	10	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	1.85	1.72	0.35 J	<0.5 U
Tetrachloroethene (PCE)	127-18-4	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Toluene	108-88-3	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Total Xylenes	1330-20-7	5	ug/l	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U	<1.5 U
Trans-1,2-Dichloroethene	156-60-5	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Trans-1,3-Dichloropropene	10061-02-6	0.4	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Trichloroethene (TCE)	79-01-6	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Trichlorofluoromethane	75-69-4	5	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Vinyl Chloride	75-01-4	2	ug/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U

Table 3
Phase II Environmental Site Investigation Report
Groundwater Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC SGVs	Location	TMW01	TMW07	TMW10	TMW15	TMW20	TMW27	TMW31	TMW34	TMW34	TMW38	TMW42
			Sample Name	TMW01_022725	TMW07_022825	TMW10_022825	TMW15_030325	TMW20_030425	TMW27_030725	TMW31_030725	TMW34_031025	GWDUP01_031025	TMW38_031025	TMW42_031125
			Sample Date	02/27/2025	02/28/2025	02/28/2025	03/03/2025	03/04/2025	03/07/2025	03/07/2025	03/10/2025	03/10/2025	03/10/2025	03/11/2025
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Semi-Volatile Organic Compounds														
1,2,4,5-Tetrachlorobenzene	95-94-3	5	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
1,2-Diphenylhydrazine	122-66-7	0	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
1,4-Dioxane (P-Dioxane)	123-91-1	**0.35**	ug/l	<0.3 U	<0.3 U	<0.3 U	<0.3 U	<0.3 U	<0.3 U	**1.94**	**4.61**	**5.58**	**1.06**	<0.3 U
2,3,4,6-Tetrachlorophenol	58-90-2	NS	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
2,4,5-Trichlorophenol	95-95-4	NS	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
2,4,6-Trichlorophenol	88-06-2	NS	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
2,4-Dichlorophenol	120-83-2	1	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
2,4-Dimethylphenol	105-67-9	1	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
2,4-Dinitrophenol	51-28-5	1	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
2,4-Dinitrotoluene	121-14-2	5	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
2,6-Dinitrotoluene	606-20-2	5	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
2-Chloronaphthalene	91-58-7	10	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
2-Chlorophenol	95-57-8	NS	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
2-Methylnaphthalene	91-57-6	NS	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
2-Methylphenol (o-Cresol)	95-48-7	NS	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
2-Nitroaniline	88-74-4	5	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
2-Nitrophenol	88-75-5	NS	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	NS	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
3,3'-Dichlorobenzidine	91-94-1	5	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
3-Nitroaniline	99-09-2	5	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
4,6-Dinitro-2-Methylphenol	534-52-1	NS	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
4-Bromophenyl Phenyl Ether	101-55-3	NS	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
4-Chloro-3-Methylphenol	59-50-7	NS	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
4-Chloroaniline	106-47-8	5	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
4-Chlorophenyl Phenyl Ether	7005-72-3	NS	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
4-Nitroaniline	100-01-6	5	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
4-Nitrophenol	100-02-7	NS	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Acenaphthene	83-32-9	20	ug/l	0.153	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.0556 U	0.1	<0.0556 U	0.0625	<0.0625 U	0.244
Acenaphthylene	208-96-8	NS	ug/l	0.0941	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.0556 U	<0.05 U	<0.0556 U	<0.0625 U	<0.0625 U	<0.0556 U
Acetophenone	98-86-2	NS	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Aniline (Phenylamine, Aminobenzene)	62-53-3	5	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Anthracene	120-12-7	50	ug/l	0.0824	0.06	<0.05 U	<0.05 U	<0.05 U	<0.0556 U	<0.05 U	<0.0556 U	<0.0625 U	0.138	0.111
Atrazine	1912-24-9	7.5	ug/l	<0.588 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.556 U	<0.5 U	<0.556 U	<0.625 U	<0.625 U	<0.556 U
Benzaldehyde	100-52-7	NS	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Benzidine	92-87-5	5	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Benzo(a)anthracene	56-55-3	**0.002**	ug/l	**0.106**	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.0556 U	<0.05 U	<0.0556 U	<0.0625 U	<0.0625 U	**0.0667**
Benzo(a)pyrene	50-32-8	0	ug/l	<0.0588 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.0556 U	<0.05 U	<0.0556 U	<0.0625 U	<0.0625 U	<0.0556 U
Benzo(b)fluoranthene	205-99-2	0.002	ug/l	<0.0588 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.0556 U	<0.05 U	<0.0556 U	<0.0625 U	<0.0625 U	<0.0556 U
Benzo(g,h,i)Perylene	191-24-2	NS	ug/l	<0.0588 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.0556 U	<0.05 U	<0.0556 U	<0.0625 U	<0.0625 U	<0.0556 U
Benzo(k)fluoranthene	207-08-9	0.002	ug/l	<0.0588 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.0556 U	<0.05 U	<0.0556 U	<0.0625 U	<0.0625 U	<0.0556 U
Benzoic Acid	65-85-0	NS	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Benzyl Alcohol	100-51-6	NS	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Benzyl Butyl Phthalate	85-68-7	50	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Biphenyl (Diphenyl)	92-52-4	5	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Bis(2-chloroethoxy) methane	111-91-1	5	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Bis(2-chloroethyl) ether (2-chloroethyl ether)	111-44-4	1	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Bis(2-chloroisopropyl) ether	108-60-1	5	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Bis(2-ethylhexyl) phthalate	117-81-7	5	ug/l	<0.588 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.556 U	1.18	2.49	3.22	2.15	2.44
Caprolactam	105-60-2	NS	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Carbazole	86-74-8	NS	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Chrysene	218-01-9	**0.002**	ug/l	**0.106**	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.0556 U	<0.05 U	<0.0556 U	<0.0625 U	**0.0625**	**0.0667**
Dibenz(a,h)anthracene	53-70-3	NS	ug/l	<0.0588 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.0556 U	<0.05 U	<0.0556 U	<0.0625 U	<0.0625 U	<0.0556 U
Dibenzofuran	132-64-9	NS	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Dibutyl phthalate	84-74-2	50	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Diethyl phthalate	84-66-2	50	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Dimethyl phthalate	131-11-3	50	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Dioctyl phthalate	117-84-0	50	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Diphenylamine	122-39-4	5	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Fluoranthene	206-44-0	50	ug/l	0.118	0.1	<0.05 U	<0.05 U	<0.05 U	0.0889	0.06	<0.0556 U	<0.0625 U	0.112	0.167
Fluorene	86-73-7	50	ug/l	0.0706	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.0556 U	<0.05 U	<0.0556 U	<0.0625 U	<0.0625 U	0.167
Hexachlorobenzene	118-74-1	0.04	ug/l	<0.0235 U	<0.02 U	<0.02 U	<0.02 U	<0.02 U	<0.0222 U	<0.02 U	<0.0222 U	<0.025 U	<0.025 U	<0.0222 U
Hexachlorobutadiene	87-68-3	0.5	ug/l	<0.588 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.556 U	<0.5 U	<0.556 U	<0.625 U	<0.625 U	<0.556 U
Hexachlorocyclopentadiene	77-47-4	5	ug/l	<11.8 U	<10 U	<10 U	<10 U	<10 U	<11.1 U	<10 U	<11.1 U	<12.5 U	<12.5 U	<11.1 U
Hexachloroethane	67-72-1	5	ug/l	<0.588 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.556 U	<0.5 U	<0.556 U	<0.625 U	<0.625 U	<0.556 U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	ug/l	<0.0588 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.0556 U	<0.05 U	<0.0556 U	<0.0625 U	<0.0625 U	<0.0556 U
Isophorone	78-59-1	50	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Naphthalene	91-20-3	10	ug/l	<0.0588 U	<0.05 U	<0.05 U	0.12	0.22	<0.0556 U	<0.05 U	0.467	0.512	<0.0625 U	0.0889
Nitrobenzene	98-95-3	0.4	ug/l	<0.294 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.278 U	<0.25 U	<0.278 U	<0.312 U	<0.312 U	<0.278 U
n-Nitrosodimethylamine	62-75-9	NS	ug/l	<0.588 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.556 U	<0.5 U	<0.556 U	<0.625 U	<0.625 U	<0.556 U
n-Nitrosodi-N-Propylamine	621-64-7	NS	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
n-Nitrosodiphenylamine	86-30-6	50	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Pentachlorophenol	87-86-5	1	ug/l	<0.294 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.278 U	<0.25 U	<0.278 U	<0.312 U	<0.312 U	<0.278 U
Phenanthrene	85-01-8	50	ug/l	0.0941	0.06	<0.05 U	<0.05 U	<0.05 U	0.0778	0.06	<0.0556 U	0.075	0.175	0.3
Phenol	108-95-2	1	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U
Pyrene	129-00-0	50	ug/l	0.247	0.12	<0.05 U	<0.05 U	<0.05 U	<0.0556 U	<0.05 U	<0.0556 U	<0.0625 U	0.1	0.1
Pyridine	110-86-1	50	ug/l	<5.88 U	<5 U	<5 U	<5 U	<5 U	<5.56 U	<5 U	<5.56 U	<6.25 U	<6.25 U	<5.56 U

Table 3
Phase II Environmental Site Investigation Report
Groundwater Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC SGVs	Location	TMW01	TMW07	TMW10	TMW15	TMW20	TMW27	TMW31	TMW34	TMW34	TMW38	TMW42
			Sample Name	TMW01_022725	TMW07_022825	TMW10_022825	TMW15_030325	TMW20_030425	TMW27_030725	TMW31_030725	TMW34_031025	GWDUP01_031025	TMW38_031025	TMW42_031125
			Sample Date	02/27/2025	02/28/2025	02/28/2025	03/03/2025	03/04/2025	03/07/2025	03/07/2025	03/10/2025	03/10/2025	03/10/2025	03/11/2025
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Pesticides														
4,4'-DDD	72-54-8	0.3	ug/l	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U
4,4'-DDE	72-55-9	0.2	ug/l	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U
4,4'-DDT	50-29-3	0.2	ug/l	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U
Aldrin	309-00-2	0	ug/l	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.01	ug/l	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U
Alpha Chlordane	5103-71-9	NS	ug/l	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U
Alpha Endosulfan	959-98-8	NS	ug/l	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.04	ug/l	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U
Beta Endosulfan	33213-65-9	NS	ug/l	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U
Chlordane (alpha and gamma)	57-74-9	0.05	ug/l	<0.211 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.04	ug/l	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U
Dieldrin	60-57-1	0.004	ug/l	<0.00211 U	<0.002 U	<0.002 U	<0.002 U	<0.002 U	<0.002 U	<0.002 U	<0.002 U	<0.002 U	<0.002 U	<0.002 U
Endosulfan Sulfate	1031-07-8	NS	ug/l	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U
Endrin	72-20-8	0	ug/l	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U
Endrin Aldehyde	7421-93-4	5	ug/l	<0.0105 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U
Endrin Ketone	53494-70-5	5	ug/l	<0.0105 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U
Gamma Bhc (Lindane)	58-89-9	0.05	ug/l	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U
Gamma-Chlordane	5566-34-7	NS	ug/l	<0.0105 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U	<0.01 U
Heptachlor	76-44-8	0.04	ug/l	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U
Heptachlor Epoxide	1024-57-3	0.03	ug/l	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U
Methoxychlor	72-43-5	35	ug/l	<0.00421 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U	<0.004 U
Toxaphene	8001-35-2	0.06	ug/l	<0.105 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U
Herbicides														
2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	35	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	50	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Silvex (2,4,5-Tp)	93-72-1	0.26	ug/l	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
Polychlorinated Biphenyl														
PCB-1016 (Aroclor 1016)	12674-11-2	NS	ug/l	<0.0526 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U
PCB-1221 (Aroclor 1221)	11104-28-2	NS	ug/l	<0.0526 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U
PCB-1232 (Aroclor 1232)	11141-16-5	NS	ug/l	<0.0526 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U
PCB-1242 (Aroclor 1242)	53469-21-9	NS	ug/l	<0.0526 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U
PCB-1248 (Aroclor 1248)	12672-29-6	NS	ug/l	<0.0526 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U
PCB-1254 (Aroclor 1254)	11097-69-1	NS	ug/l	<0.0526 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U
PCB-1260 (Aroclor 1260)	11096-82-5	NS	ug/l	<0.0526 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U
Total PCBs	1336-36-3	0.09	ug/l	<0.0526 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U	<0.05 U
Metals - Dissolved														
Aluminum	7429-90-5	NS	ug/l	<55.6 U	<55.6 U	<55.6 U	168	858	<55.6 U	<55.6 U	<55.6 U	<55.6 U	299	74.4 B
Antimony	7440-36-0	3	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U
Arsenic	7440-38-2	25	ug/l	<1.11 U	2.02	1.23	<1.11 U	6.95	2.14	<1.11 U	4.06	2.1	1.41	<1.11 U
Barium	7440-39-3	1000	ug/l	523	443	353	107	225	83.8	208	426	430	310	147
Beryllium	7440-41-7	3	ug/l	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U
Cadmium	7440-43-9	5	ug/l	<0.556 U	<0.556 U	<0.556 U	<0.556 U	0.653	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U
Calcium	7440-70-2	NS	ug/l	272,000	298,000	240,000	23,300	107,000	126,000	110,000	69,300	69,100	130,000	139,000
Chromium, Total	7440-47-3	50	ug/l	<5.56 U	<5.56 U	<5.56 U	<5.56 U	18.2	<5.56 U	<5.56 U	<5.56 U	<5.56 U	6.33	<5.56 U
Cobalt	7440-48-4	NS	ug/l	<4.44 U	5.11	<4.44 U	17.2	20	<4.44 U	<4.44 U	4.67	5.11	<4.44 U	<4.44 U
Copper	7440-50-8	200	ug/l	<22.2 U	<22.2 U	<22.2 U	<22.2 U	26.4	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U
Iron	7439-89-6	**300**	ug/l	**32,500**	**38,800**	**51,200**	**596**	**64,000**	<278 U	<278 U	**424**	**385**	**406**	<278 U
Lead	7439-92-1	25	ug/l	<5.56 U	<5.56 U	<5.56 U	<5.56 U	14	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Magnesium	7439-95-4	**35000**	ug/l	**141,000**	**122,000**	**58,500**	9,300	30,300	27,000	19,900	**73,600**	**73,300**	**44,700**	23,900
Manganese	7439-96-5	**300**	ug/l	**8,140**	**6,940**	**5,840**	**1,390**	**5,710**	**2,940**	**433**	83.6	82.2	267	**1,130**
Mercury	7439-97-6	0.7	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Nickel	7440-02-0	100	ug/l	<11.1 U	15.6	<11.1 U	39.7	17.9	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U
Potassium	7440-09-7	NS	ug/l	34,800	21,000	31,700	10,400	16,500	24,400	29,200	88,000	87,200	44,500	19,000
Selenium	7782-49-2	10	ug/l	1.25	<1.11 U	1.34	2.77 B	<1.11 U	6.06	2.39	6.81	2.26	1.99	<1.11 U
Silver	7440-22-4	50	ug/l	<5.56 U	<5.56 U	<5.56 U	<5.56 U	15.4	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Sodium	7440-23-5	**20000**	ug/l	**871,000**	**884,000**	**1,380,000**	**539,000**	**724,000**	**66,900**	**73,700**	**327,000**	**324,000**	**195,000**	**37,100**
Thallium	7440-28-0	**0.5**	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	**1.29**	<1.11 U	<1.11 U	<1.11 U
Vanadium	7440-62-2	NS	ug/l	<11.1 U	<11.1 U	<11.1 U	<11.1 U	15.7	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U
Zinc	7440-66-6	2000	ug/l	<27.8 U	28.7	<27.8 U	<27.8 U	35.3	<27.8 U	<27.8 U	<27.8 U	<27.8 U	<27.8 U	<27.8 U

Table 3
Phase II Environmental Site Investigation Report
Groundwater Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Analyte	CAS Number	NYSDEC SGVs	Location	TMW01	TMW07	TMW10	TMW15	TMW20	TMW27	TMW31	TMW34	TMW34	TMW38	TMW42
			Sample Name	TMW01_022725	TMW07_022825	TMW10_022825	TMW15_030325	TMW20_030425	TMW27_030725	TMW31_030725	TMW34_031025	GWDUP01_031025	TMW38_031025	TMW42_031125
			Sample Date	02/27/2025	02/28/2025	02/28/2025	03/03/2025	03/04/2025	03/07/2025	03/07/2025	03/10/2025	03/10/2025	03/10/2025	03/11/2025
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Metals - Total														
Aluminum	7429-90-5	NS	ug/l	1,200	<55.6 U	144	<55.6 U	925	<55.6 U	<55.6 U	<55.6 U	<55.6 U	191	7,770
Antimony	7440-36-0	3	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U
Arsenic	7440-38-2	25	ug/l	1.68	3.38	2.33	2.71	6.26	8.1	2.89	2.26	1.89	1.74	4.79
Barium	7440-39-3	1000	ug/l	572	<27.8 U	349	105	218	124	306	546	795	592	470
Beryllium	7440-41-7	3	ug/l	<0.333 U	0.344	<0.333 U	0.373	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	<0.333 U	0.402
Cadmium	7440-43-9	5	ug/l	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U	<0.556 U
Calcium	7440-70-2	NS	ug/l	301,000	2,160	247,000	23,200	106,000	127,000	111,000	49,200	71,500	137,000	161,000
Chromium, Hexavalent	18540-29-9	50	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U
Chromium, Total	7440-47-3	NS	ug/l	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	29.9
Chromium, Trivalent	16065-83-1	NS	ug/l	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	<10 U	29.9
Cobalt	7440-48-4	NS	ug/l	<4.44 U	<4.44 U	<4.44 U	17	6	<4.44 U	<4.44 U	<4.44 U	4.67	<4.44 U	9
Copper	7440-50-8	200	ug/l	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U	<22.2 U
Cyanide	57-12-5	200	ug/l	<10 U	<10 U	12	<10 U	<10 U	<10 U	11.7	10.8	<10 U	<10 U	24.1
Iron	7439-89-6	**300**	ug/l	**35,500**	<278 U	**47,500**	**535**	**67,700**	**15,800**	**17,500**	**8,260**	**12,200**	**28,300**	**37,500**
Lead	7439-92-1	**25**	ug/l	14.4	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	9.11	**108**
Magnesium	7439-95-4	**35000**	ug/l	**155,000**	244	**58,800**	9,250	30,100	26,700	19,700	**50,100**	**73,000**	**45,200**	26,400
Manganese	7439-96-5	**300**	ug/l	**8,640**	<5.56 U	**5,760**	**1,370**	**5,530**	**3,180**	**448**	60.1	87.3	285	**1,920**
Mercury	7439-97-6	**0.7**	ug/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	**2.3**
Nickel	7440-02-0	100	ug/l	<11.1 U	<11.1 U	<11.1 U	36.9	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	19.2
Potassium	7440-09-7	NS	ug/l	40,500	640	33,000	9,960	17,000	24,900	29,000	58,100	84,700	43,600	19,400
Selenium	7782-49-2	10	ug/l	1.15	1.84	2.58	3.55	<1.11 U	2.48 B	3.91 B	2.93	4.52	2.89	<1.11 U
Silver	7440-22-4	50	ug/l	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U	<5.56 U
Sodium	7440-23-5	**20000**	ug/l	**1,040,000**	1,690	**1,390,000**	**543,000**	**730,000**	**58,300**	**74,200**	**222,000**	**321,000**	**196,000**	**36,700**
Thallium	7440-28-0	0.5	ug/l	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U	<1.11 U
Vanadium	7440-62-2	NS	ug/l	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	<11.1 U	34.3
Zinc	7440-66-6	2000	ug/l	29.2	34.9	<27.8 U	<27.8 U	<27.8 U	<27.8 U	<27.8 U	<27.8 U	<27.8 U	<27.8 U	295
Per- and Polyfluoroalkyl Substances														
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	NS	ug/l	<0.00705 U	<0.00694 U	<0.00685 U	<0.00723 U	<0.00705 U	<0.00711 U	<0.00691 U	<0.0139 U	<0.0139 U	<0.0137 U	<0.00755 U
1H,1H,2H,2H-Perfluorodecane Sulfonic Acid (8:2FTS)	39108-34-4	NS	ug/l	<0.00717 U	<0.00705 U	<0.00696 U	<0.00735 U	<0.00716 U	<0.00722 U	<0.00702 U	<0.0141 U	<0.0141 U	<0.0139 U	<0.00767 U
1H,1H,2H,2H-Perfluorohexane Sulfonic Acid (4:2 FTS)	757124-72-4	NS	ug/l	<0.007 U	<0.00688 U	<0.00679 U	<0.00717 U	<0.00699 U	<0.00706 U	<0.00685 U	<0.0138 U	<0.0138 U	<0.0136 U	<0.00749 U
1H,1H,2H,2H-Perfluorooctane Sulfonic Acid (6:2 FTS)	27619-97-2	NS	ug/l	<0.00709 U	<0.00698 U	<0.00689 U	<0.00727 U	<0.00708 U	<0.00715 U	<0.00695 U	<0.0139 U	<0.014 U	<0.0137 U	<0.00759 U
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3 FTCA)	914637-49-3	NS	ug/l	<0.0233 U	<0.0229 U	<0.0226 U	<0.0239 U	<0.0233 U	<0.0235 U	<0.0228 U	<0.0459 U	<0.0459 U	<0.0452 U	<0.025 U
3-Perfluoroheptyl Propanoic Acid (7:3 FTCA)	812-70-4	NS	ug/l	<0.0233 U	<0.0229 U	<0.0226 U	<0.0239 U	<0.0233 U	<0.0235 U	<0.0228 U	<0.0459 U	<0.0459 U	<0.0452 U	<0.025 U
3-Perfluoropropyl Propanoic Acid (3:3 FTCA)	356-02-5	NS	ug/l	<0.00467 U	<0.00459 U	<0.00453 U	<0.00478 U	<0.00466 U	<0.0047 U	<0.00457 U	<0.00918 U	<0.00918 U	<0.00903 U	<0.005 U
4,8-Dioxa-3H-perfluorononanoic Acid (ADONA)	919005-14-4	NS	ug/l	<0.00705 U	<0.00694 U	<0.00685 U	<0.00723 U	<0.00705 U	<0.00711 U	<0.00691 U	<0.0139 U	<0.0139 U	<0.0137 U	<0.00755 U
9-Chlorohexadecafluoro-3-Oxanonane-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	NS	ug/l	<0.00698 U	<0.00687 U	<0.00678 U	<0.00716 U	<0.00697 U	<0.00704 U	<0.00684 U	<0.0137 U	<0.0137 U	<0.0135 U	<0.00747 U
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	NS	ug/l	<0.00747 U	<0.00734 U	<0.00725 U	<0.00765 U	<0.00746 U	<0.00753 U	<0.00731 U	<0.0147 U	<0.0147 U	<0.0145 U	<0.00799 U
N-ethyl Perfluorooctanesulfonamide (NEtFOSA)	4151-50-2	NS	ug/l	<0.00187 U	<0.00184 U	<0.00181 U	<0.00191 U	<0.00186 U	<0.00188 U	<0.00183 U	<0.00367 U	<0.00367 U	<0.00361 U	<0.002 U
N-ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	NS	ug/l	<0.00187 U	<0.00184 U	<0.00181 U	<0.00191 U	<0.00186 U	<0.00188 U	<0.00183 U	<0.00367 U	<0.00367 U	<0.00361 U	<0.002 U
N-ethyl Perfluorooctanesulfonamidoethanol (NEtFOSE)	1691-99-2	NS	ug/l	<0.0187 U	<0.0184 U	<0.0181 U	<0.0191 U	<0.0186 U	<0.0188 U	<0.0183 U	<0.0367 U	<0.0367 U	<0.0361 U	<0.02 U
N-methyl Perfluorooctanesulfonamide (NMeFOSA)	31506-32-8	NS	ug/l	<0.00187 U	<0.00184 U	<0.00181 U	<0.00191 U	<0.00186 U	<0.00188 U	<0.00183 U	<0.00367 U	<0.00367 U	<0.00361 U	<0.002 U
N-methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	NS	ug/l	0.002	<0.00184 U	<0.00181 U	<0.00191 U	<0.00186 U	<0.00188 U	<0.00183 U	<0.00367 U	<0.00367 U	<0.00361 U	<0.002 U
N-methyl Perfluorooctanesulfonamidoethanol (NMeFOSE)	24448-09-7	NS	ug/l	<0.0187 U	<0.0184 U	<0.0181 U	<0.0191 U	<0.0186 U	<0.0188 U	<0.0183 U	<0.0367 U	<0.0367 U	<0.0361 U	<0.02 U
Nonafluoro-3,6-dioxaheptanoic Acid (NFDHA)	151772-58-6	NS	ug/l	<0.00373 U	<0.00367 U	<0.00362 U	<0.00383 U	<0.00373 U	<0.00376 U	<0.00366 U	<0.00734 U	<0.00735 U	<0.00723 U	<0.004 U
Perfluoro(2-ethoxyethane)sulfonic Acid (PFEESA)	113507-82-7	NS	ug/l	<0.00332 U	<0.00327 U	<0.00323 U	<0.00341 U	<0.00332 U	<0.00335 U	<0.00325 U	<0.00653 U	<0.00654 U	<0.00643 U	<0.00356 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	NS	ug/l	<0.00373 U	<0.00367 U	<0.00362 U	<0.00383 U	0.000238 J	<0.00376 U	<0.00366 U	<0.00734 U	<0.00735 U	<0.00723 U	<0.004 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	NS	ug/l	<0.00373 U	<0.00367 U	<0.00362 U	<0.00383 U	<0.00373 U	<0.00376 U	<0.00366 U	<0.00734 U	<0.00735 U	<0.00723 U	0.00041 J
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	NS	ug/l	0.00533	0.00976	0.00706	0.0039	0.00572	0.00341	0.00225	0.00485 D	0.00468 D	0.00444 D	0.00367
Perfluorobutanoic acid (PFBA)	375-22-4	NS	ug/l	0.0136	0.0117	0.0119	0.00594 J	0.00965	<0.00753 U	<0.00731 U	0.0297 D	0.0322 D	0.0193 D	0.0107
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	NS	ug/l	<0.0018 U	<0.00177 U	<0.00175 U	<0.00185 U	<0.0018 U	<0.00182 U	<0.00176 U	<0.00354 U	<0.00354 U	<0.00349 U	<0.00193 U
Perfluorodecanoic Acid (PFDA)	335-76-2	NS	ug/l	<0.00187 U	<0.00184 U	<0.00181 U	<0.00191 U	<0.00186 U	0.000706 J	<0.00183 U	<0.00367 U	<0.00367 U	<0.00361 U	<0.002 U
Perfluorododecanesulfonic Acid (PFDoS)	79780-39-5	NS	ug/l	<0.00181 U	<0.00178 U	<0.00176 U	<0.00186 U	<0.00181 U	<0.00183 U	<0.00177 U	<0.00356 U	<0.00356 U	<0.0035 U	<0.00194 U
Perfluorododecanoic Acid (PFDoA)	307-55-1	NS	ug/l	<0.00187 U	<0.00184 U	<0.00181 U	<0.00191 U	<0.00186 U	<0.00188 U	<0.00183 U	<0.00367 U	<0.00367 U	<0.00361 U	<0.002 U
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	NS	ug/l	<0.00178 U	<0.00175 U	<0.00173 U	<0.00183 U	<0.00178 U	<0.0018 U	<0.00175 U	<0.00351 U	<0.00351 U	<0.00345 U	<0.00191 U
Perfluoroheptanoic acid (PFHpA)	375-85-9	NS	ug/l	0.0099	0.00544	0.00983	0.00246	0.00512	0.00742	0.00506	0.0181 D	0.017 D	0.0222 D	0.00742
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	NS	ug/l	0.00343	0.00282	0.00219	0.00163 J	0.00226	0.004	0.00459	0.00323 JD	0.00227 JD	0.01 D	0.0299
Perfluorohexanoic Acid (PFHxA)	307-24-4	NS	ug/l	0.0113	0.0047	0.0099	0.00269	0.00753	0.0131	0.00702	0.0237 D	0.0267 D	0.0222 D	0.0118
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	NS	ug/l	<0.00179 U	<0.00176 U	<0.00174 U	<0.00184 U	<0.00179 U	<0.00181 U	<0.00175 U	<0.00352 U	<0.00353 U	<0.00347 U	<0.00192 U
Perfluorononanoic Acid (PFNA)	375-95-1	NS	ug/l	0.00057 J	0.000487 J	0.000574 J	0.00142 J	0.00241	0.00342	0.00376	<0.00367 U	<0.00367 U	0.00846 D	0.00509
Perfluorooctanesulfonamide (PFOSA)	754-91-6	NS	ug/l	<0.00187 U	<0.00184 U	<0.00181 U	<0.00191 U	<0.00186 U	<0.00188 U	<0.00183 U	<0.00367 U	<0.00367 U	<0.00361 U	<0.002 U
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	**0.0027**	ug/l	<0.00174 U	<0.00171 U	<0.00169 U	**0.00372**	**0.00511**	**0.0194**	**0.0252**	<0.00341 U	<0.00342 U	**0.00749 D**	**0.0213**
Perfluorooctanoic Acid (PFOA)	335-67-1	**0.0067**	ug/l	**0.0458**	**0.0318**	**0.0472**	**0.0213**	**0.0249**	**0.0325**	**0.029**	**0.0916 D**	**0.0793 D**	**0.141 D**	**0.0443**
Perfluoropentanoic Acid (PFPeA)	2706-90-3	NS	ug/l	0.0118	0.0067	0.012	0.00298 J	0.00983	0.0159	0.00612	0.0283 D	0.0367 D	0.0181 D	0.0117
Perfluoropentansulfonic Acid (PFPeS)	2706-91-4	NS	ug/l	<0.00175 U	<0.00173 U	<0.0017 U	<0.0018 U	<0.00175 U	<0.00177 U	<0.00172 U	<0.00345 U	<0.00345 U	0.00178 JD	0.00162 J
Perfluorotetradecanoic Acid (PFTeDA)	376-06-7	NS	ug/l	<0.00187 U	<0.00184 U	<0.00181 U	<0.00191 U	<0.00186 U	<0.00188 U	<0.00183 U	<0.00367 U	<0.00367 U	<0.00361 U	<0.002 U
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	NS	ug/l	<0.00187 U	<0.00184 U	<0.00181 U	<0.00191 U	<0.00186 U	<0.00188 U	<0.00183 U	<0.00367 U	<0.00367 U	<0.00361 U	<0.002 U
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	NS	ug/l	<0.00187 U	<0.00184 U	<0.00181 U	<0.00191 U	<0.00186 U	<0.00188 U	<0.00183 U	<0.00367 U	<0.00367 U	<0.00361 U	<0.002 U

Table 3
Phase II Environmental Site Investigation Report
Groundwater Sample Analytical Results

Proposed Bally's Casino – Ring Road at Ferry Point Park
Bronx, New York
Langan Project No.: 170773001

Notes:
CAS - Chemical Abstract Service
NS - No standard
ug/l - microgram per liter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 Codes, Rules, and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operation Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water and published addenda (herein collectively referenced as "NYSDEC SGVs").

Qualifiers:
D - The concentration reported is a result of a diluted sample.
J - The analyte was detected above the method detection limit (MDL), but below the RL; therefore, the result is an estimated concentration.
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
B - The analyte was found in the associated analysis batch blank.

Exceedance Summary:
10 - Result exceeds NYSDEC SGVs

Figures

Notes:
1. Flushing, NY USGS Quadrangle Map
Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online
Copyright: © 2013 National Geographic Society, i-cubed.
WARNING: It is a violation of the NYS Education Law Article 145 for any person, unless he is acting under the direction of a licensed professional engineer, to alter this item in any way.

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Project	Figure Title	Project No.	Figure
PROPOSED BALLY'S CASINO - RING ROAD AT FERRY POINT PARK BRONX NEW YORK	SITE LOCATION MAP	170773001	1
		Date: 4/10/2025	
		Scale: 1" = 2,000 feet	
		Drawn By: MG	

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Path: \\langan.com\data\NYC\data0\170773001\Project Data\ArcGIS\APRX\170773001\170773001.aprx

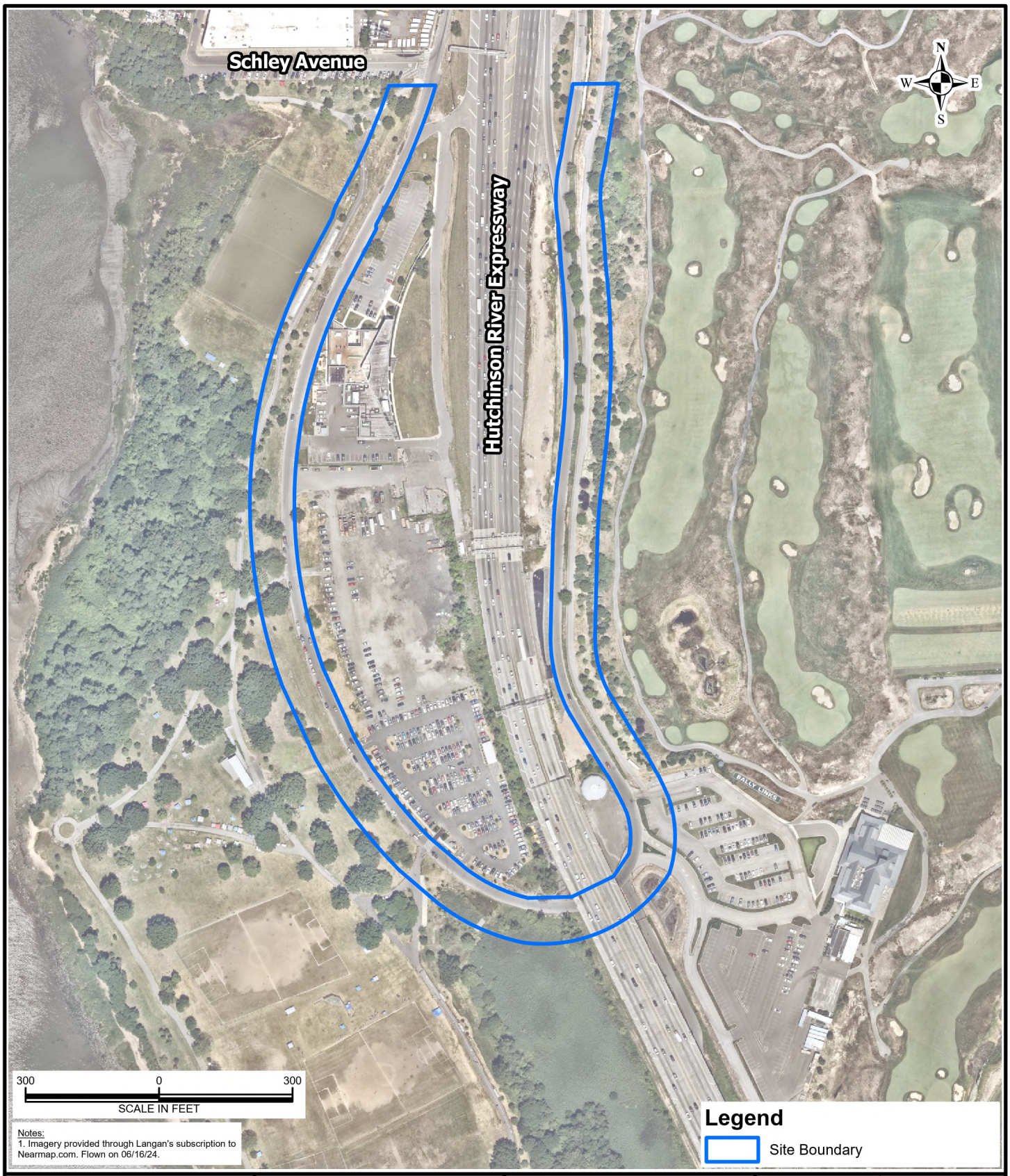

Notes:
1. Imagery provided through Langan's subscription to Nearmap.com. Flown on 06/16/24.

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Project
PROPOSED BALLY'S CASINO - RING ROAD AT FERRY POINT PARK
BRONX NEW YORK

Figure Title
SITE PLAN

Project No. 170773001
Date 4/10/2025
Scale 1" = 300 feet
Drawn By CH

Figure 2

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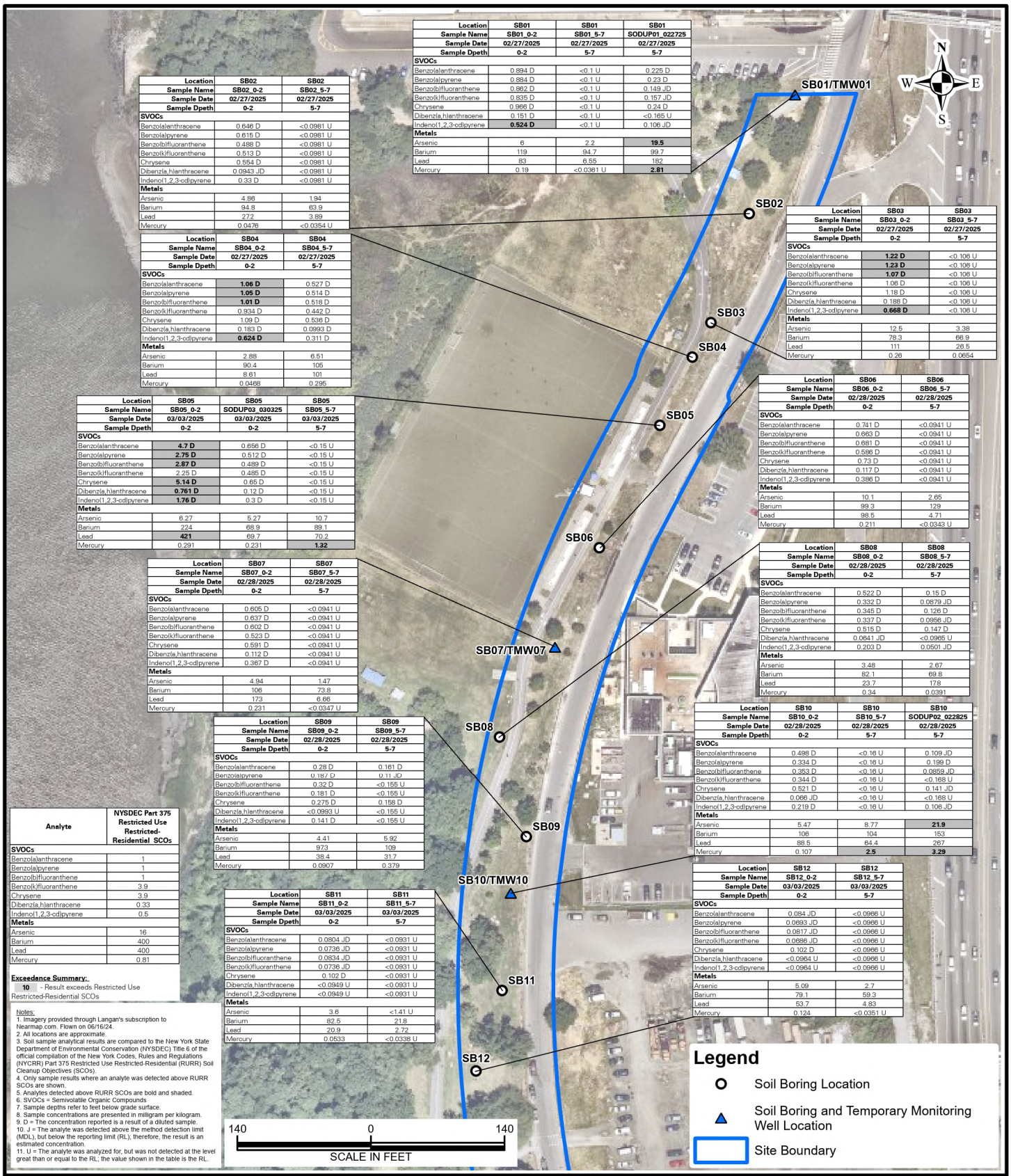

Location	SB01	SB01	SB01
Sample Name	SB01_0-2	SB01_5-7	SODUP01_022725
Sample Date	02/27/2025	02/27/2025	02/27/2025
Sample Dpeth	0-2	5-7	5-7
SVOCs			
Benzo(a)anthracene	0.894 D	<0.1 U	0.225 D
Benzo(a)pyrene	0.884 D	<0.1 U	0.23 D
Benzo(b)fluoranthene	0.862 D	<0.1 U	0.149 JD
Benzo(k)fluoranthene	0.835 D	<0.1 U	0.157 JD
Chrysene	0.966 D	<0.1 U	0.24 D
Dibenz(a,h)anthracene	0.151 D	<0.1 U	<0.165 U
Indeno(1,2,3-cd)pyrene	**0.524 D**	<0.1 U	0.106 JD
Metals			
Arsenic	6	2.2	**19.5**
Barium	119	94.7	99.7
Lead	83	6.55	182
Mercury	0.19	<0.0361 U	**2.81**

Location	SB02	SB02
Sample Name	SB02_0-2	SB02_5-7
Sample Date	02/27/2025	02/27/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.646 D	<0.0981 U
Benzo(a)pyrene	0.615 D	<0.0981 U
Benzo(b)fluoranthene	0.488 D	<0.0981 U
Benzo(k)fluoranthene	0.513 D	<0.0981 U
Chrysene	0.554 D	<0.0981 U
Dibenz(a,h)anthracene	0.0943 JD	<0.0981 U
Indeno(1,2,3-cd)pyrene	0.33 D	<0.0981 U
Metals		
Arsenic	4.86	1.94
Barium	94.8	63.9
Lead	272	3.89
Mercury	0.0476	<0.0354 U

Location	SB03	SB03
Sample Name	SB03_0-2	SB03_5-7
Sample Date	02/27/2025	02/27/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	**1.22 D**	<0.106 U
Benzo(a)pyrene	**1.23 D**	<0.106 U
Benzo(b)fluoranthene	**1.07 D**	<0.106 U
Benzo(k)fluoranthene	1.06 D	<0.106 U
Chrysene	1.18 D	<0.106 U
Dibenz(a,h)anthracene	0.188 D	<0.106 U
Indeno(1,2,3-cd)pyrene	**0.668 D**	<0.106 U
Metals		
Arsenic	12.5	3.38
Barium	78.3	66.9
Lead	111	26.5
Mercury	0.26	0.0654

Location	SB04	SB04
Sample Name	SB04_0-2	SB04_5-7
Sample Date	02/27/2025	02/27/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	**1.06 D**	0.527 D
Benzo(a)pyrene	**1.05 D**	0.514 D
Benzo(b)fluoranthene	**1.01 D**	0.518 D
Benzo(k)fluoranthene	0.934 D	0.442 D
Chrysene	1.09 D	0.536 D
Dibenz(a,h)anthracene	0.183 D	0.0993 D
Indeno(1,2,3-cd)pyrene	**0.624 D**	0.311 D
Metals		
Arsenic	2.88	6.51
Barium	90.4	105
Lead	8.61	101
Mercury	0.0468	0.295

Location	SB05	SB05	SB05
Sample Name	SB05_0-2	SODUP03_030325	SB05_5-7
Sample Date	03/03/2025	03/03/2025	03/03/2025
Sample Dpeth	0-2	0-2	5-7
SVOCs			
Benzo(a)anthracene	**4.7 D**	0.656 D	<0.15 U
Benzo(a)pyrene	**2.75 D**	0.512 D	<0.15 U
Benzo(b)fluoranthene	**2.87 D**	0.489 D	<0.15 U
Benzo(k)fluoranthene	2.25 D	0.485 D	<0.15 U
Chrysene	**5.14 D**	0.65 D	<0.15 U
Dibenz(a,h)anthracene	**0.761 D**	0.12 D	<0.15 U
Indeno(1,2,3-cd)pyrene	**1.76 D**	0.3 D	<0.15 U
Metals			
Arsenic	6.27	5.27	10.7
Barium	224	68.9	89.1
Lead	**421**	69.7	70.2
Mercury	0.291	0.231	**1.32**

Location	SB06	SB06
Sample Name	SB06_0-2	SB06_5-7
Sample Date	02/28/2025	02/28/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.741 D	<0.0941 U
Benzo(a)pyrene	0.663 D	<0.0941 U
Benzo(b)fluoranthene	0.681 D	<0.0941 U
Benzo(k)fluoranthene	0.586 D	<0.0941 U
Chrysene	0.73 D	<0.0941 U
Dibenz(a,h)anthracene	0.117 D	<0.0941 U
Indeno(1,2,3-cd)pyrene	0.386 D	<0.0941 U
Metals		
Arsenic	10.1	2.65
Barium	99.3	129
Lead	98.5	4.71
Mercury	0.211	<0.0343 U

Location	SB07	SB07
Sample Name	SB07_0-2	SB07_5-7
Sample Date	02/28/2025	02/28/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.605 D	<0.0941 U
Benzo(a)pyrene	0.637 D	<0.0941 U
Benzo(b)fluoranthene	0.602 D	<0.0941 U
Benzo(k)fluoranthene	0.523 D	<0.0941 U
Chrysene	0.591 D	<0.0941 U
Dibenz(a,h)anthracene	0.112 D	<0.0941 U
Indeno(1,2,3-cd)pyrene	0.367 D	<0.0941 U
Metals		
Arsenic	4.94	1.47
Barium	106	73.8
Lead	173	6.66
Mercury	0.231	<0.0347 U

Location	SB08	SB08
Sample Name	SB08_0-2	SB08_5-7
Sample Date	02/28/2025	02/28/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.522 D	0.15 D
Benzo(a)pyrene	0.332 D	0.0879 JD
Benzo(b)fluoranthene	0.345 D	0.126 D
Benzo(k)fluoranthene	0.337 D	0.0956 JD
Chrysene	0.515 D	0.147 D
Dibenz(a,h)anthracene	0.0641 JD	<0.0965 U
Indeno(1,2,3-cd)pyrene	0.203 D	0.0501 JD
Metals		
Arsenic	3.48	2.67
Barium	82.1	69.8
Lead	23.7	178
Mercury	0.34	0.0391

Location	SB09	SB09
Sample Name	SB09_0-2	SB09_5-7
Sample Date	02/28/2025	02/28/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.28 D	0.161 D
Benzo(a)pyrene	0.315 D	0.11 JD
Benzo(b)fluoranthene	0.32 D	<0.155 U
Benzo(k)fluoranthene	0.181 D	<0.155 U
Chrysene	0.275 D	0.158 D
Dibenz(a,h)anthracene	<0.0993 U	<0.155 U
Indeno(1,2,3-cd)pyrene	0.141 D	<0.155 U
Metals		
Arsenic	4.41	5.92
Barium	973	109
Lead	38.4	31.7
Mercury	0.0907	0.379

Location	SB10	SB10	SB10
Sample Name	SB10_0-2	SB10_5-7	SODUP02_022825
Sample Date	02/28/2025	02/28/2025	02/28/2025
Sample Dpeth	0-2	5-7	5-7
SVOCs			
Benzo(a)anthracene	0.498 D	<0.16 U	0.109 JD
Benzo(a)pyrene	0.334 D	<0.16 U	0.199 D
Benzo(b)fluoranthene	0.353 D	<0.16 U	0.0859 JD
Benzo(k)fluoranthene	0.344 D	<0.16 U	<0.168 U
Chrysene	0.521 D	<0.16 U	0.141 JD
Dibenz(a,h)anthracene	0.066 JD	<0.16 U	<0.168 U
Indeno(1,2,3-cd)pyrene	0.219 D	<0.16 U	0.106 JD
Metals			
Arsenic	5.47	8.77	**21.9**
Barium	106	104	153
Lead	88.5	64.4	267
Mercury	0.107	**2.5**	**3.29**

Analyte	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs
SVOCs	
Benzo(a)anthracene	1
Benzo(a)pyrene	1
Benzo(b)fluoranthene	1
Benzo(k)fluoranthene	3.9
Chrysene	3.9
Dibenz(a,h)anthracene	0.33
Indeno(1,2,3-cd)pyrene	0.5
Metals	
Arsenic	16
Barium	400
Lead	400
Mercury	0.81

Exceedance Summary:

10 - Result exceeds Restricted Use Restricted-Residential SCOs

Location	SB11	SB11
Sample Name	SB11_0-2	SB11_5-7
Sample Date	03/03/2025	03/03/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.0804 JD	<0.0931 U
Benzo(a)pyrene	0.0736 JD	<0.0931 U
Benzo(b)fluoranthene	0.0834 JD	<0.0931 U
Benzo(k)fluoranthene	0.0736 JD	<0.0931 U
Chrysene	0.102 D	<0.0931 U
Dibenz(a,h)anthracene	<0.0949 U	<0.0931 U
Indeno(1,2,3-cd)pyrene	<0.0949 U	<0.0931 U
Metals		
Arsenic	3.6	<1.41 U
Barium	82.5	21.8
Lead	20.9	2.72
Mercury	0.0533	<0.0338 U

Location	SB12	SB12
Sample Name	SB12_0-2	SB12_5-7
Sample Date	03/03/2025	03/03/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.084 JD	<0.0966 U
Benzo(a)pyrene	0.0693 JD	<0.0966 U
Benzo(b)fluoranthene	0.0817 JD	<0.0966 U
Benzo(k)fluoranthene	0.0686 JD	<0.0966 U
Chrysene	0.102 D	<0.0966 U
Dibenz(a,h)anthracene	<0.0964 U	<0.0966 U
Indeno(1,2,3-cd)pyrene	<0.0964 U	<0.0966 U
Metals		
Arsenic	5.09	2.7
Barium	79.1	59.3
Lead	53.7	4.83
Mercury	0.124	<0.0351 U

Notes:
1. Imagery provided through Langan's subscription to Nearmap.com. Flown on 06/16/24.
2. All locations are approximate.
3. Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the official compilation of the New York Codes, Rules and Regulations (NYCRR) Part 375 Restricted Use Restricted-Residential (RURR) Soil Cleanup Objectives (SCOs).
4. Only sample results where an analyte was detected above RURR SCOs are shown.
5. Analytes detected above RURR SCOs are bold and shaded.
6. SVOCs = Semivolatile Organic Compounds
7. Sample depths refer to feet below grade surface.
8. Sample concentrations are presented in milligram per kilogram.
9. D = The concentration reported is a result of a diluted sample.
10. J = The analyte was detected above the method detection limit (MDL), but below the reporting limit (RL); therefore, the result is an estimated concentration.
11. U = The analyte was analyzed for, but was not detected at the level great than or equal to the RL; the value shown in the table is the RL.

Legend

- Soil Boring Location
- Soil Boring and Temporary Monitoring Well Location
- Site Boundary

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Project
PROPOSED BALLY'S CASINO - RING ROAD AT FERRY POINT PARK
BRONX NEW YORK

Figure Title
SOIL SAMPLE ANALYTICAL RESULTS MAP - NORTHWEST

Project No. 170773001
Date 4/11/2025
Scale 1" = 140 feet
Drawn By CH

Figure **3A**

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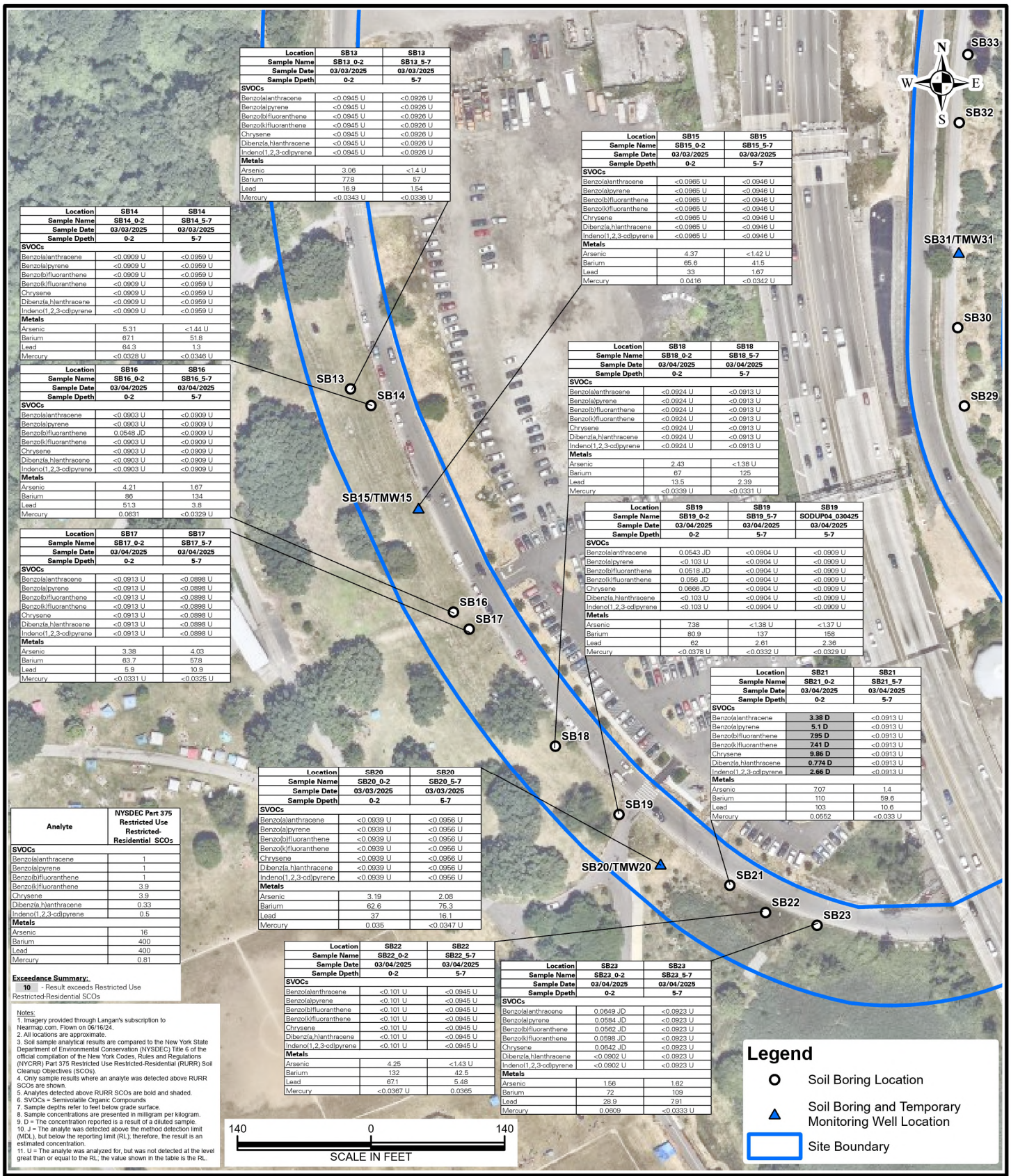

Location	SB13	SB13
Sample Name	SB13_0-2	SB13_5-7
Sample Date	03/03/2025	03/03/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	<0.0945 U	<0.0926 U
Benzo(a)pyrene	<0.0945 U	<0.0926 U
Benzo(b)fluoranthene	<0.0945 U	<0.0926 U
Benzo(k)fluoranthene	<0.0945 U	<0.0926 U
Chrysene	<0.0945 U	<0.0926 U
Dibenz(a,h)anthracene	<0.0945 U	<0.0926 U
Indeno(1,2,3-cd)pyrene	<0.0945 U	<0.0926 U
Metals		
Arsenic	3.06	<1.4 U
Barium	77.8	57
Lead	16.9	1.54
Mercury	<0.0343 U	<0.0336 U

Location	SB15	SB15
Sample Name	SB15_0-2	SB15_5-7
Sample Date	03/03/2025	03/03/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	<0.0965 U	<0.0946 U
Benzo(a)pyrene	<0.0965 U	<0.0946 U
Benzo(b)fluoranthene	<0.0965 U	<0.0946 U
Benzo(k)fluoranthene	<0.0965 U	<0.0946 U
Chrysene	<0.0965 U	<0.0946 U
Dibenz(a,h)anthracene	<0.0965 U	<0.0946 U
Indeno(1,2,3-cd)pyrene	<0.0965 U	<0.0946 U
Metals		
Arsenic	4.37	<1.42 U
Barium	65.6	41.5
Lead	33	1.67
Mercury	0.0416	<0.0342 U

Location	SB14	SB14
Sample Name	SB14_0-2	SB14_5-7
Sample Date	03/03/2025	03/03/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	<0.0909 U	<0.0959 U
Benzo(a)pyrene	<0.0909 U	<0.0959 U
Benzo(b)fluoranthene	<0.0909 U	<0.0959 U
Benzo(k)fluoranthene	<0.0909 U	<0.0959 U
Chrysene	<0.0909 U	<0.0959 U
Dibenz(a,h)anthracene	<0.0909 U	<0.0959 U
Indeno(1,2,3-cd)pyrene	<0.0909 U	<0.0959 U
Metals		
Arsenic	5.31	<1.44 U
Barium	67.1	51.8
Lead	64.3	1.3
Mercury	<0.0328 U	<0.0346 U

Location	SB18	SB18
Sample Name	SB18_0-2	SB18_5-7
Sample Date	03/04/2025	03/04/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	<0.0924 U	<0.0913 U
Benzo(a)pyrene	<0.0924 U	<0.0913 U
Benzo(b)fluoranthene	<0.0924 U	<0.0913 U
Benzo(k)fluoranthene	<0.0924 U	<0.0913 U
Chrysene	<0.0924 U	<0.0913 U
Dibenz(a,h)anthracene	<0.0924 U	<0.0913 U
Indeno(1,2,3-cd)pyrene	<0.0924 U	<0.0913 U
Metals		
Arsenic	2.43	<1.38 U
Barium	67	125
Lead	13.5	2.39
Mercury	<0.0339 U	<0.0331 U

Location	SB16	SB16
Sample Name	SB16_0-2	SB16_5-7
Sample Date	03/04/2025	03/04/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	<0.0903 U	<0.0909 U
Benzo(a)pyrene	<0.0903 U	<0.0909 U
Benzo(b)fluoranthene	0.0548 JD	<0.0909 U
Benzo(k)fluoranthene	<0.0903 U	<0.0909 U
Chrysene	<0.0903 U	<0.0909 U
Dibenz(a,h)anthracene	<0.0903 U	<0.0909 U
Indeno(1,2,3-cd)pyrene	<0.0903 U	<0.0909 U
Metals		
Arsenic	4.21	1.67
Barium	86	134
Lead	51.3	3.8
Mercury	0.0631	<0.0329 U

Location	SB19	SB19	SB19
Sample Name	SB19_0-2	SB19_5-7	SODUP04_030425
Sample Date	03/04/2025	03/04/2025	03/04/2025
Sample Dpeth	0-2	5-7	5-7
SVOCs			
Benzo(a)anthracene	0.0543 JD	<0.0904 U	<0.0909 U
Benzo(a)pyrene	<0.103 U	<0.0904 U	<0.0909 U
Benzo(b)fluoranthene	0.0518 JD	<0.0904 U	<0.0909 U
Benzo(k)fluoranthene	0.056 JD	<0.0904 U	<0.0909 U
Chrysene	0.0666 JD	<0.0904 U	<0.0909 U
Dibenz(a,h)anthracene	<0.103 U	<0.0904 U	<0.0909 U
Indeno(1,2,3-cd)pyrene	<0.103 U	<0.0904 U	<0.0909 U
Metals			
Arsenic	7.38	<1.38 U	<1.37 U
Barium	80.9	137	158
Lead	62	2.61	2.36
Mercury	<0.0378 U	<0.0332 U	<0.0329 U

Location	SB17	SB17
Sample Name	SB17_0-2	SB17_5-7
Sample Date	03/04/2025	03/04/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	<0.0913 U	<0.0898 U
Benzo(a)pyrene	<0.0913 U	<0.0898 U
Benzo(b)fluoranthene	<0.0913 U	<0.0898 U
Benzo(k)fluoranthene	<0.0913 U	<0.0898 U
Chrysene	<0.0913 U	<0.0898 U
Dibenz(a,h)anthracene	<0.0913 U	<0.0898 U
Indeno(1,2,3-cd)pyrene	<0.0913 U	<0.0898 U
Metals		
Arsenic	3.38	4.03
Barium	63.7	57.8
Lead	5.9	10.9
Mercury	<0.0331 U	<0.0325 U

Location	SB21	SB21
Sample Name	SB21_0-2	SB21_5-7
Sample Date	03/04/2025	03/04/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	**3.38 D**	<0.0913 U
Benzo(a)pyrene	**5.1 D**	<0.0913 U
Benzo(b)fluoranthene	**7.95 D**	<0.0913 U
Benzo(k)fluoranthene	**7.41 D**	<0.0913 U
Chrysene	**9.86 D**	<0.0913 U
Dibenz(a,h)anthracene	**0.774 D**	<0.0913 U
Indeno(1,2,3-cd)pyrene	**2.66 D**	<0.0913 U
Metals		
Arsenic	7.07	1.4
Barium	110	59.6
Lead	103	10.6
Mercury	0.0552	<0.033 U

Location	SB20	SB20
Sample Name	SB20_0-2	SB20_5-7
Sample Date	03/03/2025	03/03/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	<0.0939 U	<0.0956 U
Benzo(a)pyrene	<0.0939 U	<0.0956 U
Benzo(b)fluoranthene	<0.0939 U	<0.0956 U
Benzo(k)fluoranthene	<0.0939 U	<0.0956 U
Chrysene	<0.0939 U	<0.0956 U
Dibenz(a,h)anthracene	<0.0939 U	<0.0956 U
Indeno(1,2,3-cd)pyrene	<0.0939 U	<0.0956 U
Metals		
Arsenic	3.19	2.08
Barium	62.6	75.3
Lead	37	16.1
Mercury	0.035	<0.0347 U

Analyte	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs
SVOCs	
Benzo(a)anthracene	1
Benzo(a)pyrene	1
Benzo(b)fluoranthene	1
Benzo(k)fluoranthene	3.9
Chrysene	3.9
Dibenz(a,h)anthracene	0.33
Indeno(1,2,3-cd)pyrene	0.5
Metals	
Arsenic	16
Barium	400
Lead	400
Mercury	0.81

Exceedance Summary:

10 - Result exceeds Restricted Use Restricted-Residential SCOs

Location	SB22	SB22
Sample Name	SB22_0-2	SB22_5-7
Sample Date	03/04/2025	03/04/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	<0.101 U	<0.0945 U
Benzo(a)pyrene	<0.101 U	<0.0945 U
Benzo(b)fluoranthene	<0.101 U	<0.0945 U
Benzo(k)fluoranthene	<0.101 U	<0.0945 U
Chrysene	<0.101 U	<0.0945 U
Dibenz(a,h)anthracene	<0.101 U	<0.0945 U
Indeno(1,2,3-cd)pyrene	<0.101 U	<0.0945 U
Metals		
Arsenic	4.25	<1.43 U
Barium	132	42.5
Lead	67.1	5.48
Mercury	<0.0367 U	0.0365

Location	SB23	SB23
Sample Name	SB23_0-2	SB23_5-7
Sample Date	03/04/2025	03/04/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.0649 JD	<0.0923 U
Benzo(a)pyrene	0.0584 JD	<0.0923 U
Benzo(b)fluoranthene	0.0562 JD	<0.0923 U
Benzo(k)fluoranthene	0.0596 JD	<0.0923 U
Chrysene	0.0642 JD	<0.0923 U
Dibenz(a,h)anthracene	<0.0902 U	<0.0923 U
Indeno(1,2,3-cd)pyrene	<0.0902 U	<0.0923 U
Metals		
Arsenic	1.56	1.62
Barium	72	109
Lead	28.9	7.91
Mercury	0.0609	<0.0333 U

Notes:
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2. All locations are approximate.
3. Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the official compilation of the New York Codes, Rules and Regulations (NYCRR) Part 375 Restricted Use Restricted-Residential (RURR) Soil Cleanup Objectives (SCOs).
4. Only sample results where an analyte was detected above RURR SCOs are shown.
5. Analytes detected above RURR SCOs are bold and shaded.
6. SVOCs = Semivolatile Organic Compounds
7. Sample depths refer to feet below grade surface.
8. Sample concentrations are presented in milligram per kilogram.
9. D = The concentration reported is a result of a diluted sample.
10. J = The analyte was detected above the method detection limit (MDL), but below the reporting limit (RL); therefore, the result is an estimated concentration.
11. U = The analyte was analyzed for, but was not detected at the level great than or equal to the RL; the value shown in the table is the RL.

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Project
PROPOSED BALLY'S CASINO - RING ROAD AT FERRY POINT PARK
BRONX NEW YORK

Figure Title
SOIL SAMPLE ANALYTICAL RESULTS MAP - SOUTHWEST

Project No. 170773001
Date 4/11/2025
Scale 1" = 140 feet
Drawn By CH
Figure 3B

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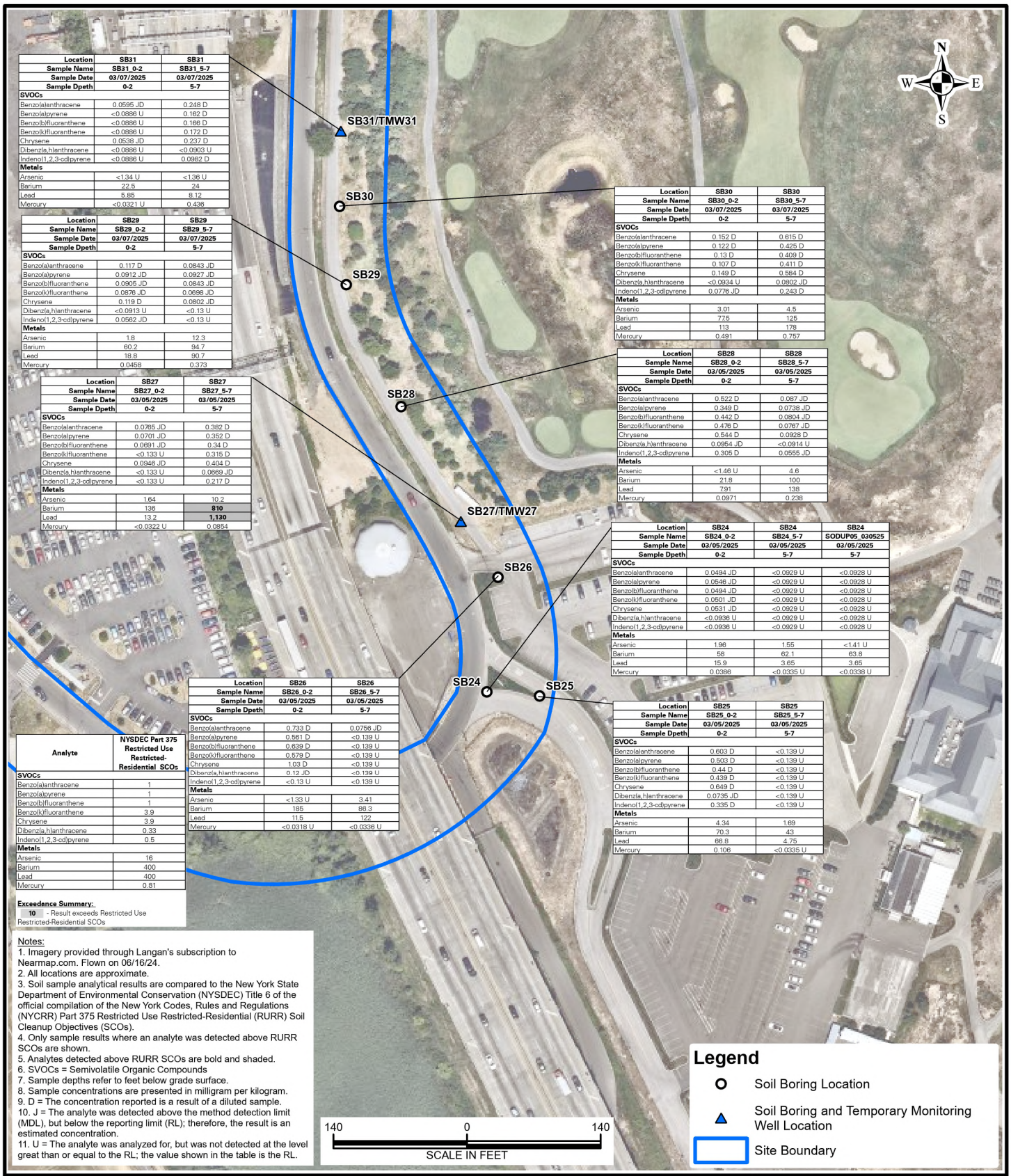

Location	SB31	SB31
Sample Name	SB31_0-2	SB31_5-7
Sample Date	03/07/2025	03/07/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.0595 JD	0.248 D
Benzo(a)pyrene	<0.0886 U	0.162 D
Benzo(b)fluoranthene	<0.0886 U	0.166 D
Benzo(k)fluoranthene	<0.0886 U	0.172 D
Chrysene	0.0538 JD	0.237 D
Dibenz(a,h)anthracene	<0.0886 U	<0.0903 U
Indeno(1,2,3-cd)pyrene	<0.0886 U	0.0982 D
Metals		
Arsenic	<1.34 U	<1.36 U
Barium	22.5	24
Lead	5.85	8.12
Mercury	<0.0321 U	0.436

Location	SB29	SB29
Sample Name	SB29_0-2	SB29_5-7
Sample Date	03/07/2025	03/07/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.117 D	0.0843 JD
Benzo(a)pyrene	0.0912 JD	0.0927 JD
Benzo(b)fluoranthene	0.0905 JD	0.0843 JD
Benzo(k)fluoranthene	0.0876 JD	0.0898 JD
Chrysene	0.119 D	0.0802 JD
Dibenz(a,h)anthracene	<0.0913 U	<0.13 U
Indeno(1,2,3-cd)pyrene	0.0562 JD	<0.13 U
Metals		
Arsenic	1.8	12.3
Barium	60.2	94.7
Lead	18.8	90.7
Mercury	0.0458	0.373

Location	SB27	SB27
Sample Name	SB27_0-2	SB27_5-7
Sample Date	03/05/2025	03/05/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.0765 JD	0.382 D
Benzo(a)pyrene	0.0701 JD	0.352 D
Benzo(b)fluoranthene	0.0691 JD	0.34 D
Benzo(k)fluoranthene	<0.133 U	0.315 D
Chrysene	0.0946 JD	0.404 D
Dibenz(a,h)anthracene	<0.133 U	0.0669 JD
Indeno(1,2,3-cd)pyrene	<0.133 U	0.217 D
Metals		
Arsenic	1.64	10.2
Barium	136	**810**
Lead	13.2	**1,130**
Mercury	<0.0322 U	0.0854

Location	SB30	SB30
Sample Name	SB30_0-2	SB30_5-7
Sample Date	03/07/2025	03/07/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.152 D	0.615 D
Benzo(a)pyrene	0.122 D	0.425 D
Benzo(b)fluoranthene	0.13 D	0.409 D
Benzo(k)fluoranthene	0.107 D	0.411 D
Chrysene	0.149 D	0.584 D
Dibenz(a,h)anthracene	<0.0934 U	0.0802 JD
Indeno(1,2,3-cd)pyrene	0.0776 JD	0.243 D
Metals		
Arsenic	3.01	4.5
Barium	77.5	125
Lead	113	179
Mercury	0.491	0.757

Location	SB28	SB28
Sample Name	SB28_0-2	SB28_5-7
Sample Date	03/05/2025	03/05/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.522 D	0.087 JD
Benzo(a)pyrene	0.349 D	0.0738 JD
Benzo(b)fluoranthene	0.442 D	0.0804 JD
Benzo(k)fluoranthene	0.476 D	0.0767 JD
Chrysene	0.544 D	0.0928 D
Dibenz(a,h)anthracene	0.0954 JD	<0.0914 U
Indeno(1,2,3-cd)pyrene	0.305 D	0.0555 JD
Metals		
Arsenic	<1.46 U	4.6
Barium	21.8	100
Lead	7.91	138
Mercury	0.0971	0.238

Location	SB24	SB24	SB24
Sample Name	SB24_0-2	SB24_5-7	SODUP05_030525
Sample Date	03/05/2025	03/05/2025	03/05/2025
Sample Dpeth	0-2	5-7	5-7
SVOCs			
Benzo(a)anthracene	0.0494 JD	<0.0929 U	<0.0928 U
Benzo(a)pyrene	0.0546 JD	<0.0929 U	<0.0928 U
Benzo(b)fluoranthene	0.0494 JD	<0.0929 U	<0.0928 U
Benzo(k)fluoranthene	0.0501 JD	<0.0929 U	<0.0928 U
Chrysene	0.0531 JD	<0.0929 U	<0.0928 U
Dibenz(a,h)anthracene	<0.0936 U	<0.0929 U	<0.0928 U
Indeno(1,2,3-cd)pyrene	<0.0936 U	<0.0929 U	<0.0928 U
Metals			
Arsenic	1.96	1.55	<1.41 U
Barium	58	62.1	63.8
Lead	15.9	3.65	3.65
Mercury	0.0386	<0.0335 U	<0.0338 U

Location	SB26	SB26
Sample Name	SB26_0-2	SB26_5-7
Sample Date	03/05/2025	03/05/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.733 D	0.0756 JD
Benzo(a)pyrene	0.561 D	<0.139 U
Benzo(b)fluoranthene	0.639 D	<0.139 U
Benzo(k)fluoranthene	0.579 D	<0.139 U
Chrysene	1.03 D	<0.139 U
Dibenz(a,h)anthracene	0.12 JD	<0.139 U
Indeno(1,2,3-cd)pyrene	<0.13 U	<0.139 U
Metals		
Arsenic	<1.33 U	3.41
Barium	185	86.3
Lead	11.5	122
Mercury	<0.0318 U	<0.0336 U

Location	SB25	SB25
Sample Name	SB25_0-2	SB25_5-7
Sample Date	03/05/2025	03/05/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.603 D	<0.139 U
Benzo(a)pyrene	0.503 D	<0.139 U
Benzo(b)fluoranthene	0.44 D	<0.139 U
Benzo(k)fluoranthene	0.439 D	<0.139 U
Chrysene	0.649 D	<0.139 U
Dibenz(a,h)anthracene	0.0735 JD	<0.139 U
Indeno(1,2,3-cd)pyrene	0.335 D	<0.139 U
Metals		
Arsenic	4.34	1.69
Barium	70.3	43
Lead	66.8	4.75
Mercury	0.106	<0.0335 U

Analyte	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs
SVOCs	
Benzo(a)anthracene	1
Benzo(a)pyrene	1
Benzo(b)fluoranthene	1
Benzo(k)fluoranthene	3.9
Chrysene	3.9
Dibenz(a,h)anthracene	0.33
Indeno(1,2,3-cd)pyrene	0.5
Metals	
Arsenic	16
Barium	400
Lead	400
Mercury	0.81

Exceedance Summary:

10 - Result exceeds Restricted Use Restricted-Residential SCOs

Notes:
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2. All locations are approximate.
3. Soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the official compilation of the New York Codes, Rules and Regulations (NYCRR) Part 375 Restricted Use Restricted-Residential (RURR) Soil Cleanup Objectives (SCOs).
4. Only sample results where an analyte was detected above RURR SCOs are shown.
5. Analytes detected above RURR SCOs are bold and shaded.
6. SVOCs = Semivolatile Organic Compounds
7. Sample depths refer to feet below grade surface.
8. Sample concentrations are presented in milligram per kilogram.
9. D = The concentration reported is a result of a diluted sample.
10. J = The analyte was detected above the method detection limit (MDL), but below the reporting limit (RL); therefore, the result is an estimated concentration.
11. U = The analyte was analyzed for, but was not detected at the level great than or equal to the RL; the value shown in the table is the RL.

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Project
PROPOSED BALLY'S CASINO - RING ROAD AT FERRY POINT PARK
BRONX NEW YORK

Figure Title
SOIL SAMPLE ANALYTICAL RESULTS MAP - SOUTHEAST

Project No. 170773001
Date 4/11/2025
Scale 1" = 140 feet
Drawn By CH
Figure 3C

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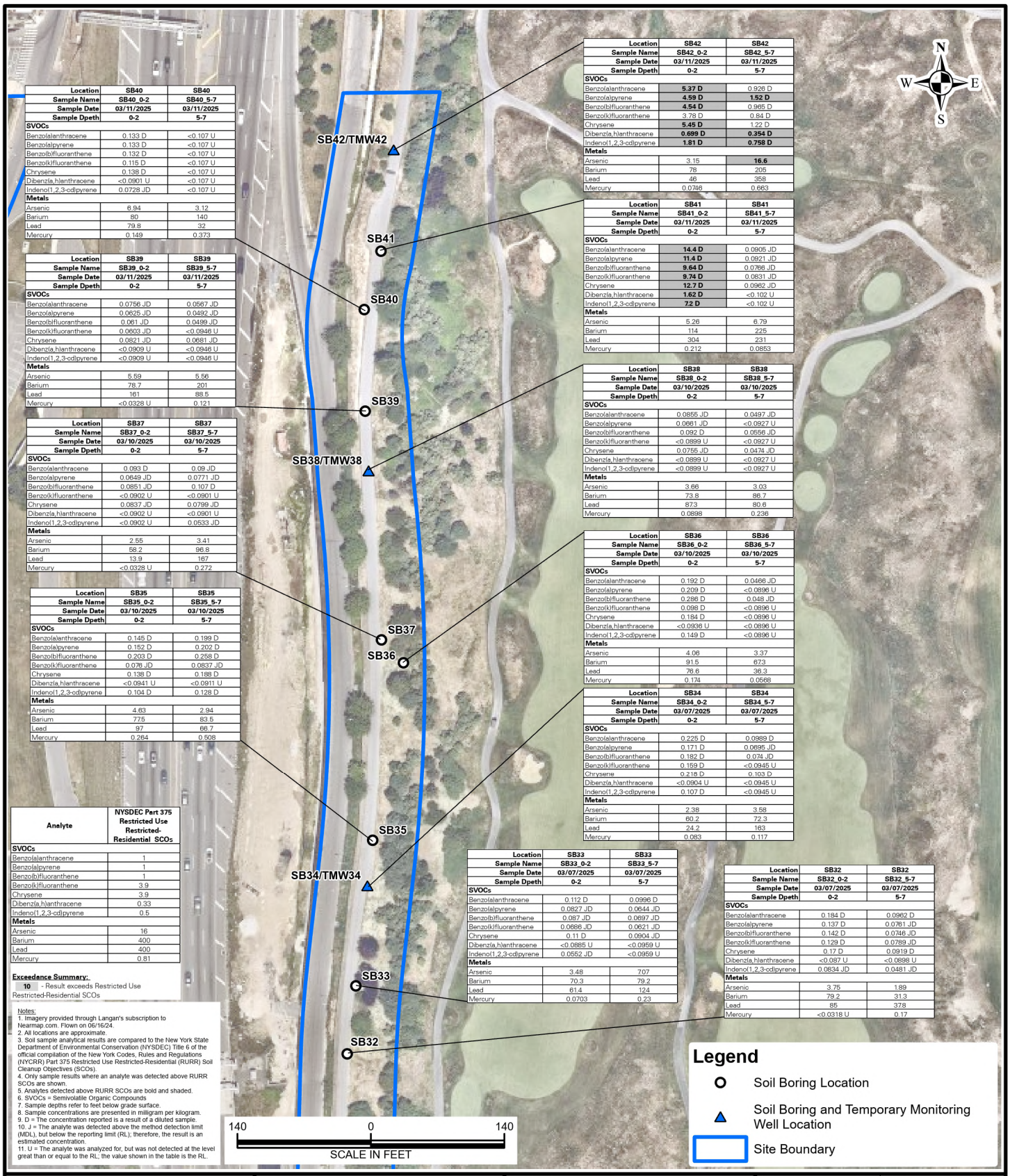

Location	SB40	SB40
Sample Name	SB40_0-2	SB40_5-7
Sample Date	03/11/2025	03/11/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.133 D	<0.107 U
Benzo(a)pyrene	0.133 D	<0.107 U
Benzo(b)fluoranthene	0.132 D	<0.107 U
Benzo(k)fluoranthene	0.115 D	<0.107 U
Chrysene	0.138 D	<0.107 U
Dibenz(a,h)anthracene	<0.0901 U	<0.107 U
Indeno(1,2,3-cd)pyrene	0.0728 JD	<0.107 U
Metals		
Arsenic	6.94	3.12
Barium	80	140
Lead	79.8	32
Mercury	0.149	0.373

Location	SB39	SB39
Sample Name	SB39_0-2	SB39_5-7
Sample Date	03/11/2025	03/11/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.0756 JD	0.0567 JD
Benzo(a)pyrene	0.0625 JD	0.0492 JD
Benzo(b)fluoranthene	0.061 JD	0.0499 JD
Benzo(k)fluoranthene	0.0603 JD	<0.0946 U
Chrysene	0.0821 JD	0.0681 JD
Dibenz(a,h)anthracene	<0.0909 U	<0.0946 U
Indeno(1,2,3-cd)pyrene	<0.0909 U	<0.0946 U
Metals		
Arsenic	5.59	5.56
Barium	78.7	201
Lead	161	88.5
Mercury	<0.0328 U	0.121

Location	SB37	SB37
Sample Name	SB37_0-2	SB37_5-7
Sample Date	03/10/2025	03/10/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.093 D	0.09 JD
Benzo(a)pyrene	0.0649 JD	0.0771 JD
Benzo(b)fluoranthene	0.0851 JD	0.107 D
Benzo(k)fluoranthene	<0.0902 U	<0.0901 U
Chrysene	0.0837 JD	0.0799 JD
Dibenz(a,h)anthracene	<0.0902 U	<0.0901 U
Indeno(1,2,3-cd)pyrene	<0.0902 U	0.0533 JD
Metals		
Arsenic	2.55	3.41
Barium	58.2	96.8
Lead	13.9	167
Mercury	<0.0328 U	0.272

Location	SB35	SB35
Sample Name	SB35_0-2	SB35_5-7
Sample Date	03/10/2025	03/10/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.145 D	0.199 D
Benzo(a)pyrene	0.152 D	0.202 D
Benzo(b)fluoranthene	0.203 D	0.258 D
Benzo(k)fluoranthene	0.076 JD	0.0837 JD
Chrysene	0.138 D	0.188 D
Dibenz(a,h)anthracene	<0.0941 U	<0.0911 U
Indeno(1,2,3-cd)pyrene	0.104 D	0.128 D
Metals		
Arsenic	4.63	2.94
Barium	775	83.5
Lead	97	66.7
Mercury	0.264	0.508

Analyte	NYSDEC Part 375 Restricted Use Restricted-Residential SCOs
SVOCs	
Benzo(a)anthracene	1
Benzo(a)pyrene	1
Benzo(b)fluoranthene	1
Benzo(k)fluoranthene	3.9
Chrysene	3.9
Dibenz(a,h)anthracene	0.33
Indeno(1,2,3-cd)pyrene	0.5
Metals	
Arsenic	16
Barium	400
Lead	400
Mercury	0.81

Exceedance Summary:

10 - Result exceeds Restricted Use Restricted-Residential SCOs

Notes:
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4. Only sample results where an analyte was detected above RURR SCOs are shown.
5. Analytes detected above RURR SCOs are bold and shaded.
6. SVOCs = Semivolatile Organic Compounds
7. Sample depths refer to feet below grade surface.
8. Sample concentrations are presented in milligram per kilogram.
9. D = The concentration reported is a result of a diluted sample.
10. J = The analyte was detected above the method detection limit (MDL), but below the reporting limit (RL); therefore, the result is an estimated concentration.
11. U = The analyte was analyzed for, but was not detected at the level great than or equal to the RL; the value shown in the table is the RL.

Location	SB42	SB42
Sample Name	SB42_0-2	SB42_5-7
Sample Date	03/11/2025	03/11/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	**5.37 D**	0.926 D
Benzo(a)pyrene	**4.59 D**	**1.52 D**
Benzo(b)fluoranthene	**4.54 D**	0.965 D
Benzo(k)fluoranthene	3.78 D	0.84 D
Chrysene	**5.45 D**	1.22 D
Dibenz(a,h)anthracene	**0.699 D**	**0.354 D**
Indeno(1,2,3-cd)pyrene	**1.81 D**	**0.758 D**
Metals		
Arsenic	3.15	**16.6**
Barium	78	205
Lead	46	358
Mercury	0.0746	0.663

Location	SB41	SB41
Sample Name	SB41_0-2	SB41_5-7
Sample Date	03/11/2025	03/11/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	**14.4 D**	0.0905 JD
Benzo(a)pyrene	**11.4 D**	0.0921 JD
Benzo(b)fluoranthene	**9.64 D**	0.0766 JD
Benzo(k)fluoranthene	**9.74 D**	0.0831 JD
Chrysene	**12.7 D**	0.0962 JD
Dibenz(a,h)anthracene	**1.62 D**	<0.102 U
Indeno(1,2,3-cd)pyrene	**7.2 D**	<0.102 U
Metals		
Arsenic	5.26	6.79
Barium	114	225
Lead	304	231
Mercury	0.212	0.0853

Location	SB38	SB38
Sample Name	SB38_0-2	SB38_5-7
Sample Date	03/10/2025	03/10/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.0855 JD	0.0497 JD
Benzo(a)pyrene	0.0661 JD	<0.0927 U
Benzo(b)fluoranthene	0.092 D	0.0556 JD
Benzo(k)fluoranthene	<0.0899 U	<0.0927 U
Chrysene	0.0755 JD	0.0474 JD
Dibenz(a,h)anthracene	<0.0899 U	<0.0927 U
Indeno(1,2,3-cd)pyrene	<0.0899 U	<0.0927 U
Metals		
Arsenic	3.66	3.03
Barium	73.8	86.7
Lead	87.3	80.6
Mercury	0.0898	0.236

Location	SB36	SB36
Sample Name	SB36_0-2	SB36_5-7
Sample Date	03/10/2025	03/10/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.192 D	0.0466 JD
Benzo(a)pyrene	0.209 D	<0.0896 U
Benzo(b)fluoranthene	0.286 D	0.048 JD
Benzo(k)fluoranthene	0.098 D	<0.0896 U
Chrysene	0.184 D	<0.0896 U
Dibenz(a,h)anthracene	<0.0936 U	<0.0896 U
Indeno(1,2,3-cd)pyrene	0.149 D	<0.0896 U
Metals		
Arsenic	4.06	3.37
Barium	91.5	67.3
Lead	76.6	36.3
Mercury	0.174	0.0568

Location	SB34	SB34
Sample Name	SB34_0-2	SB34_5-7
Sample Date	03/07/2025	03/07/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.225 D	0.0989 D
Benzo(a)pyrene	0.171 D	0.0695 JD
Benzo(b)fluoranthene	0.182 D	0.074 JD
Benzo(k)fluoranthene	0.159 D	<0.0945 U
Chrysene	0.218 D	0.103 D
Dibenz(a,h)anthracene	<0.0904 U	<0.0945 U
Indeno(1,2,3-cd)pyrene	0.107 D	<0.0945 U
Metals		
Arsenic	2.38	3.58
Barium	60.2	72.3
Lead	24.2	163
Mercury	0.083	0.117

Location	SB33	SB33
Sample Name	SB33_0-2	SB33_5-7
Sample Date	03/07/2025	03/07/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.112 D	0.0996 D
Benzo(a)pyrene	0.0827 JD	0.0644 JD
Benzo(b)fluoranthene	0.087 JD	0.0697 JD
Benzo(k)fluoranthene	0.0686 JD	0.0621 JD
Chrysene	0.11 D	0.0904 JD
Dibenz(a,h)anthracene	<0.0885 U	<0.0959 U
Indeno(1,2,3-cd)pyrene	0.0552 JD	<0.0959 U
Metals		
Arsenic	3.48	7.07
Barium	70.3	79.2
Lead	61.4	124
Mercury	0.0703	0.23

Location	SB32	SB32
Sample Name	SB32_0-2	SB32_5-7
Sample Date	03/07/2025	03/07/2025
Sample Dpeth	0-2	5-7
SVOCs		
Benzo(a)anthracene	0.184 D	0.0962 D
Benzo(a)pyrene	0.137 D	0.0761 JD
Benzo(b)fluoranthene	0.142 D	0.0746 JD
Benzo(k)fluoranthene	0.129 D	0.0789 JD
Chrysene	0.17 D	0.0919 D
Dibenz(a,h)anthracene	<0.087 U	<0.0898 U
Indeno(1,2,3-cd)pyrene	0.0834 JD	0.0481 JD
Metals		
Arsenic	3.75	1.89
Barium	79.2	31.3
Lead	85	37.8
Mercury	<0.0318 U	0.17

Legend

- Soil Boring Location
- Soil Boring and Temporary Monitoring Well Location
- Site Boundary

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Project
PROPOSED BALLY'S CASINO - RING ROAD AT FERRY POINT PARK
BRONX NEW YORK

Figure Title
SOIL SAMPLE ANALYTICAL RESULTS MAP - NORTHEAST

Project No. 170773001
Date 4/11/2025
Scale 1" = 140 feet
Drawn By CH

Figure **3D**

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Path: \\langan.com\data\NYC\data0\170773001\Project Data\ArcGIS\APRX\170773001\170773001.aprx

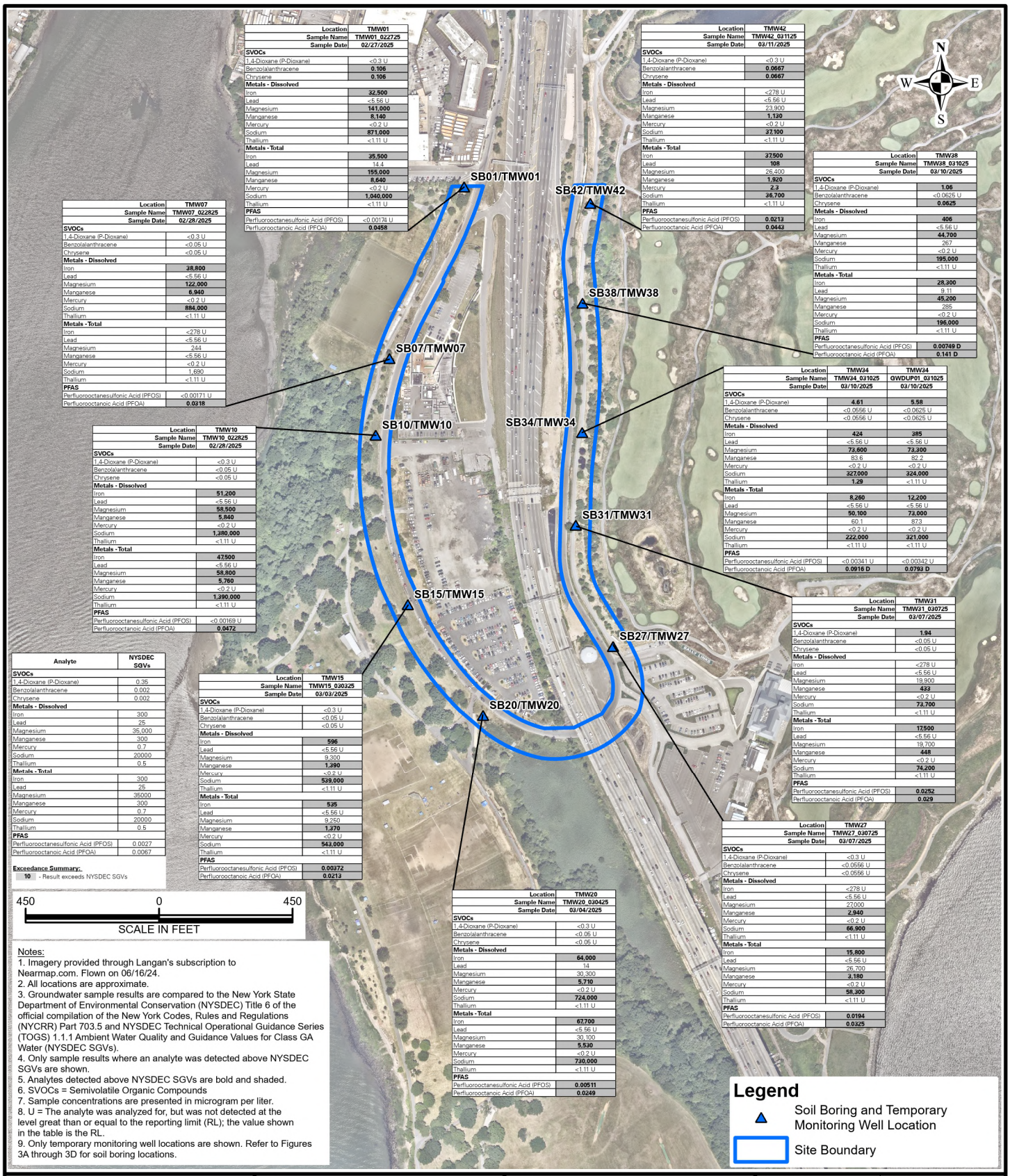

Location	TMW01
Sample Name	TMW01_022725
Sample Date	02/27/2025
SVOCs	
1,4-Dioxane (P-Dioxane)	<0.3 U
Benzo(a)anthracene	**0.106**
Chrysene	**0.106**
Metals - Dissolved	
Iron	**32,500**
Lead	<5.56 U
Magnesium	**141,000**
Manganese	**8,140**
Mercury	<0.2 U
Sodium	**871,000**
Thallium	<1.11 U
Metals - Total	
Iron	**35,500**
Lead	14.4
Magnesium	**155,000**
Manganese	**8,640**
Mercury	<0.2 U
Sodium	**1,040,000**
Thallium	<1.11 U
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.00174 U
Perfluorooctanoic Acid (PFOA)	**0.0458**

Location	TMW42
Sample Name	TMW42_031125
Sample Date	03/11/2025
SVOCs	
1,4-Dioxane (P-Dioxane)	<0.3 U
Benzo(a)anthracene	**0.0667**
Chrysene	**0.0667**
Metals - Dissolved	
Iron	<278 U
Lead	<5.56 U
Magnesium	23,900
Manganese	**1,130**
Mercury	<0.2 U
Sodium	**37,100**
Thallium	<1.11 U
Metals - Total	
Iron	**37,500**
Lead	**108**
Magnesium	26,400
Manganese	**1,920**
Mercury	**2.3**
Sodium	**36,700**
Thallium	<1.11 U
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	**0.0213**
Perfluorooctanoic Acid (PFOA)	**0.0443**

Location	TMW38
Sample Name	TMW38_031025
Sample Date	03/10/2025
SVOCs	
1,4-Dioxane (P-Dioxane)	**1.06**
Benzo(a)anthracene	<0.0625 U
Chrysene	**0.0625**
Metals - Dissolved	
Iron	**406**
Lead	<5.56 U
Magnesium	**44,700**
Manganese	267
Mercury	<0.2 U
Sodium	**195,000**
Thallium	<1.11 U
Metals - Total	
Iron	**28,300**
Lead	9.11
Magnesium	**45,200**
Manganese	285
Mercury	<0.2 U
Sodium	**196,000**
Thallium	<1.11 U
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	**0.00749 D**
Perfluorooctanoic Acid (PFOA)	**0.141 D**

Location	TMW07
Sample Name	TMW07_022825
Sample Date	02/28/2025
SVOCs	
1,4-Dioxane (P-Dioxane)	<0.3 U
Benzo(a)anthracene	<0.05 U
Chrysene	<0.05 U
Metals - Dissolved	
Iron	**38,800**
Lead	<5.56 U
Magnesium	**122,000**
Manganese	**6,940**
Mercury	<0.2 U
Sodium	**884,000**
Thallium	<1.11 U
Metals - Total	
Iron	<278 U
Lead	<5.56 U
Magnesium	244
Manganese	<5.56 U
Mercury	<0.2 U
Sodium	1,690
Thallium	<1.11 U
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.00171 U
Perfluorooctanoic Acid (PFOA)	**0.0318**

Location	TMW34	TMW34
Sample Name	TMW34_031025	GWDUP01_031025
Sample Date	03/10/2025	03/10/2025
SVOCs		
1,4-Dioxane (P-Dioxane)	**4.61**	**5.58**
Benzo(a)anthracene	<0.0556 U	<0.0625 U
Chrysene	<0.0556 U	<0.0625 U
Metals - Dissolved		
Iron	**424**	**385**
Lead	<5.56 U	<5.56 U
Magnesium	**73,600**	**73,300**
Manganese	83.6	82.2
Mercury	<0.2 U	<0.2 U
Sodium	**327,000**	**324,000**
Thallium	**1.29**	<1.11 U
Metals - Total		
Iron	**8,260**	**12,200**
Lead	<5.56 U	<5.56 U
Magnesium	**50,100**	**73,000**
Manganese	60.1	87.3
Mercury	<0.2 U	<0.2 U
Sodium	**222,000**	**321,000**
Thallium	<1.11 U	<1.11 U
PFAS		
Perfluorooctanesulfonic Acid (PFOS)	<0.00341 U	<0.00342 U
Perfluorooctanoic Acid (PFOA)	**0.0916 D**	**0.0793 D**

Location	TMW10
Sample Name	TMW10_022825
Sample Date	02/28/2025
SVOCs	
1,4-Dioxane (P-Dioxane)	<0.3 U
Benzo(a)anthracene	<0.05 U
Chrysene	<0.05 U
Metals - Dissolved	
Iron	**51,200**
Lead	<5.56 U
Magnesium	**58,500**
Manganese	**5,840**
Mercury	<0.2 U
Sodium	**1,380,000**
Thallium	<1.11 U
Metals - Total	
Iron	**47,500**
Lead	<5.56 U
Magnesium	**58,800**
Manganese	**5,760**
Mercury	<0.2 U
Sodium	**1,390,000**
Thallium	<1.11 U
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	<0.00169 U
Perfluorooctanoic Acid (PFOA)	**0.0472**

Location	TMW31
Sample Name	TMW31_030725
Sample Date	03/07/2025
SVOCs	
1,4-Dioxane (P-Dioxane)	**1.94**
Benzo(a)anthracene	<0.05 U
Chrysene	<0.05 U
Metals - Dissolved	
Iron	<278 U
Lead	<5.56 U
Magnesium	18,900
Manganese	**433**
Mercury	<0.2 U
Sodium	**73,700**
Thallium	<1.11 U
Metals - Total	
Iron	**17,500**
Lead	<5.56 U
Magnesium	19,700
Manganese	**448**
Mercury	<0.2 U
Sodium	**74,200**
Thallium	<1.11 U
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	**0.0252**
Perfluorooctanoic Acid (PFOA)	**0.029**

Analyte	NYSDEC SGVs
SVOCs	
1,4-Dioxane (P-Dioxane)	0.35
Benzo(a)anthracene	0.002
Chrysene	0.002
Metals - Dissolved	
Iron	300
Lead	25
Magnesium	35,000
Manganese	300
Mercury	0.7
Sodium	20000
Thallium	0.5
Metals - Total	
Iron	300
Lead	25
Magnesium	35000
Manganese	300
Mercury	0.7
Sodium	20000
Thallium	0.5
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	0.0027
Perfluorooctanoic Acid (PFOA)	0.0067

Exceedance Summary:

10 - Result exceeds NYSDEC SGVs

Location	TMW15
Sample Name	TMW15_030325
Sample Date	03/03/2025
SVOCs	
1,4-Dioxane (P-Dioxane)	<0.3 U
Benzo(a)anthracene	<0.05 U
Chrysene	<0.05 U
Metals - Dissolved	
Iron	**596**
Lead	<5.56 U
Magnesium	9,300
Manganese	**1,390**
Mercury	<0.2 U
Sodium	**539,000**
Thallium	<1.11 U
Metals - Total	
Iron	**535**
Lead	<5.56 U
Magnesium	9,250
Manganese	**1,370**
Mercury	<0.2 U
Sodium	**543,000**
Thallium	<1.11 U
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	**0.00372**
Perfluorooctanoic Acid (PFOA)	**0.0213**

Location	TMW27
Sample Name	TMW27_030725
Sample Date	03/07/2025
SVOCs	
1,4-Dioxane (P-Dioxane)	<0.3 U
Benzo(a)anthracene	<0.0556 U
Chrysene	<0.0556 U
Metals - Dissolved	
Iron	<278 U
Lead	<5.56 U
Magnesium	27,000
Manganese	**2,940**
Mercury	<0.2 U
Sodium	**66,900**
Thallium	<1.11 U
Metals - Total	
Iron	**15,800**
Lead	<5.56 U
Magnesium	26,700
Manganese	**3,180**
Mercury	<0.2 U
Sodium	**58,300**
Thallium	<1.11 U
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	**0.0194**
Perfluorooctanoic Acid (PFOA)	**0.0325**

Location	TMW20
Sample Name	TMW20_030425
Sample Date	03/04/2025
SVOCs	
1,4-Dioxane (P-Dioxane)	<0.3 U
Benzo(a)anthracene	<0.05 U
Chrysene	<0.05 U
Metals - Dissolved	
Iron	**64,000**
Lead	14
Magnesium	30,300
Manganese	**5,710**
Mercury	<0.2 U
Sodium	**724,000**
Thallium	<1.11 U
Metals - Total	
Iron	**67,700**
Lead	<5.56 U
Magnesium	30,100
Manganese	**5,530**
Mercury	<0.2 U
Sodium	**730,000**
Thallium	<1.11 U
PFAS	
Perfluorooctanesulfonic Acid (PFOS)	**0.00511**
Perfluorooctanoic Acid (PFOA)	**0.0249**

450 0 450

SCALE IN FEET

Notes:
1. Imagery provided through Langan's subscription to Nearmap.com. Flown on 06/16/24.
2. All locations are approximate.
3. Groundwater sample results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the official compilation of the New York Codes, Rules and Regulations (NYCRR) Part 703.5 and NYSDEC Technical Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality and Guidance Values for Class GA Water (NYSDEC SGVs).
4. Only sample results where an analyte was detected above NYSDEC SGVs are shown.
5. Analytes detected above NYSDEC SGVs are bold and shaded.
6. SVOCs = Semivolatile Organic Compounds
7. Sample concentrations are presented in microgram per liter.
8. U = The analyte was analyzed for, but was not detected at the level great than or equal to the reporting limit (RL); the value shown in the table is the RL.
9. Only temporary monitoring well locations are shown. Refer to Figures 3A through 3D for soil boring locations.

Legend

Soil Boring and Temporary Monitoring Well Location

Site Boundary

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Project

PROPOSED BALLY'S CASINO - RING ROAD AT FERRY POINT PARK

BRONX NEW YORK

Figure Title

GROUNDWATER SAMPLE ANALYTICAL RESULTS MAP

Project No. 170773001

Date 4/10/2025

Scale 1" = 450 feet

Drawn By CH

Figure 4

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Path: \\langan.com\data\NYC\data0\170773001\Project Data\ArcGIS\APRX\170773001\170773001.aprx

Appendix A

Site Photographs

Photo 1: General view of the eastern area of the site (facing north). Taken 3/7/2025.

Photo 2: General view of the western area of the site (facing north). Taken 3/3/2025.

Photo 3: General view of the southwestern area of the site (facing southeast). Taken 2/25/2025.

Photo 4: View of NOVA Geophysical Services (NOVA) performing GPR survey (facing northwest). Taken 2/25/2025.

Photo 5: View of the Lakewood Environmental Services Corp. (Lakewood) advancing soil boring SB06 (facing south). Taken 2/28/2025.

Photo 6: View of Lakewood hand-augering soil boring SB05 (facing southeast). Taken 3/3/2025.

Photo 7: View of temporary monitoring well TMW31 (facing north). Taken 3/10/2025.

Photo 8: View of Langan purging TMW07 (facing down). Taken 2/27/2025.

Photo 9: View of soil recovered from boring SB27 (facing east). Taken 3/5/2025.

Photo 10: View of restored soil boring and temporary monitoring well (SB/TMW10) location (facing south). Taken 2/28/2025.

Appendix B
Geophysical Survey Report

GEOPHYSICAL ENGINEERING SURVEY REPORT

Ferry Point Park Ring Road
10 Hutchinson River Parkway,
Bronx, NY 10465

NOVA PROJECT NUMBER:
25-5054

DATED:
February 26, 2025

PREPARED FOR:

LANGAN

369 Ninth Avenue, 8th Floor
New York, New York 10001
www.langan.com

PREPARED BY:

NOVA
GEOPHYSICAL
ENGINEERING
Subsurface Mapping Solutions
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February 26, 2025

Lexi Haley
Senior Staff Engineer
LANGAN
D 212.479.5499 x5656 M: 332.208.2127

Re: Geophysical Engineering Survey (GES) Report
Ferry Point Park Ring Road
10 Hutchinson River Parkway,
Bronx, New York 10465

Dear Ms. Haley,

Nova Geophysical Services (NOVA) is pleased to provide the findings of the geophysical engineering survey (GES) at the above referenced project site located at Ferry Point Park Ring Road: 10 Hutchinson River Parkway, Bronx, NY (the "Site").

INTRODUCTION TO GEOPHYSICAL ENGINEERING SURVEY (GES)

NOVA performed a geophysical engineering survey (GES) consisting of a Ground Penetrating Radar (GPR) and Electromagnetic (EM) survey at the site. The purpose of this survey is to locate and identify utilities, underground storage tanks and other substructures at the project site on February 25th, 2025.

The equipment selected for this investigation was a GSSI UtilityScan 350 MHz ground penetrating radar (GPR) with a shielded antenna Sensors and Software Noggin 250 MHz GPR with a shielded antenna and a RadioDetection RD7100 Electromagnetic utility locator. A GPR system consists of a radar control unit, control cable, and transducer (antenna). The control unit transmits a trigger pulse at a normal repetition

rate of 250/350 MHz. The trigger pulse is sent to the transmitter electronics in the transducer via the control cable. The transmitter electronics amplify the trigger pulse into bipolar pulses that are radiated to the surface. The transformed pulses vary in shape and frequency according to the transducer used. In the subsurface, variations of the signal occur at boundaries where there is a dielectric contrast (void, steel, soil type, etc.). Signal reflections travel back to the control unit and are represented as color graphic images for interpolation.

A typical electromagnetic (EM) utility locating system consists of a transmitter unit and a receiver unit. The receiver unit can be used independently of the transmitter unit in order to detect utility lines with an inherent EM signature (electric utility lines, water lines, etc.). If needed a current at a specific frequency can also be placed on a utility that is being located. This can be done via the transmitter unit by either direct connection or induction via an EM field varying at specific frequency. The receiver unit is then set to the selected frequency and the electromagnetic field created by the current running through the utility can be located allowing the utility to be marked.

GEOPHYSICAL METHODS

The project site was screened using GPR to search the specified area and inspected for reflections, which could be indicative of substructures and utilities within the subsurface. An EM utility locator was used to help determine the locations of utilities within the survey area.

EM data was collected and interpreted on site and suspected utilities marked as needed. GPR data profiles were collected for the areas of the Site specified by the client and processed as specified below.

DATA PROCESSING

In order to improve the quality of the results and to better identify anomalies NOVA processed the collected data. The processing work flow is briefly described in this section.

Step 1. Import Raw RAMAC data to standard processing format

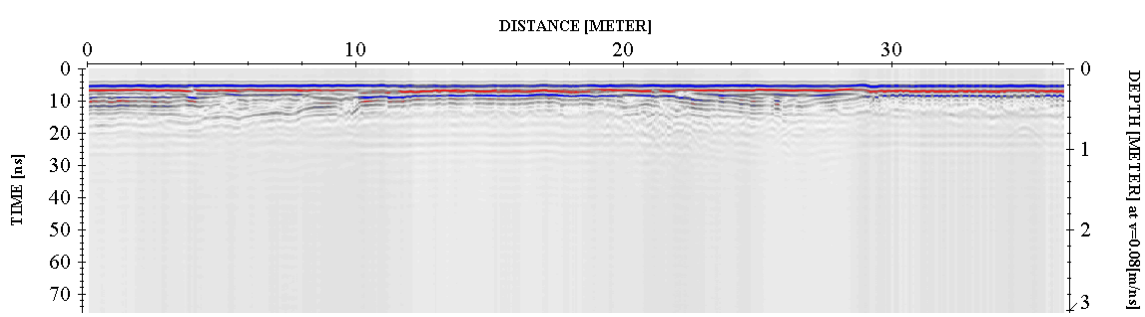

Step 2. Remove instrument noise *(dewow)*

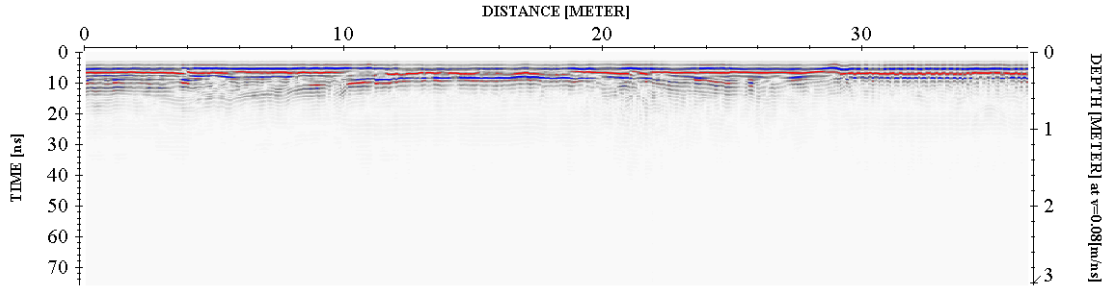

Step 3. Correct for attenuation losses *(energy decay function)*

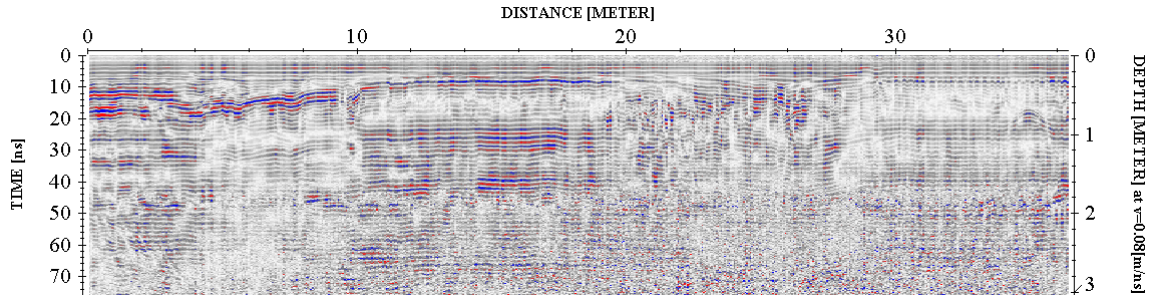

Step 4. Remove static from bottom of profile *(time cut)*

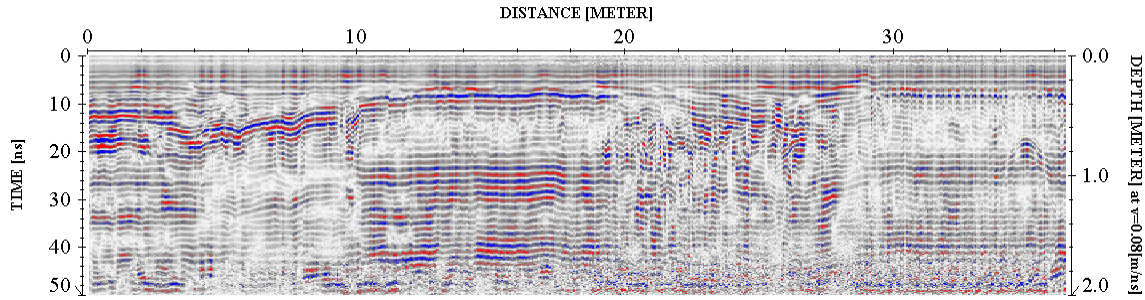

Step 5. Mute horizontal ringing/noise *(subtracting average)*

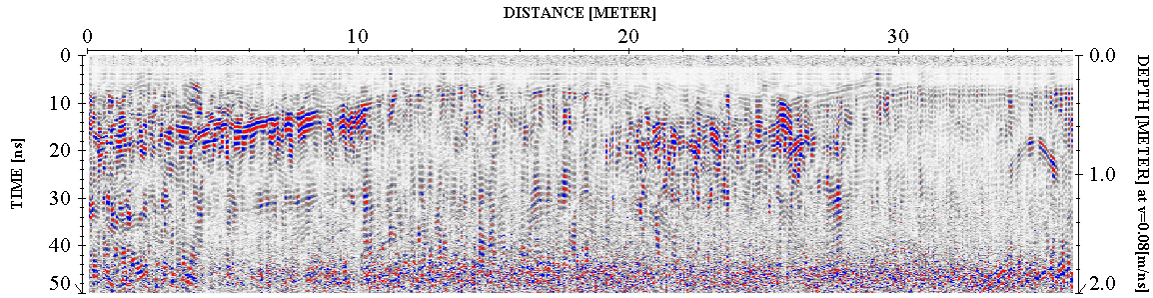

The above example shows the significance of data processing. The last image (step 5) has higher resolution than the starting image (raw data – step 1) and represents the subsurface anomalies much more accurately.

PHYSICAL SETTINGS

NOVA observed the following physical conditions at the time of the survey.

Weather: sunny

Temperature: 48° F

Surface: Asphalt/ Concrete/ Grass

Survey Parameters: A GPR grid scan was conducted within the survey areas as shown on the survey plan. The approximate line spacing of the grid survey was approximately 5'. Additional GPR data was collected over features of interest.

Limitations: The geophysical noise level (GNL) at the site was high due to being in an urban environment as well as other unknown anthropogenic sources.

RESULTS

The results of the geophysical engineering survey (GES) identified the following at the project site:

- The GES identified anomalies consistent with those of utilities (Electric, Water, Telephone, and Gas). The exact locations are shown in the survey plan.

- The GES confirmed that all identifies utilities ran throughout the perimeters of the park as well as the adjacent roadway.

- The GES identified electric lines located along the western side of the project area approximately 2 feet below ground surface.

- The GES identifies multiple utilities: electric, telephone, and gas lines running parallel to each other along the eastern portion of the project site.

- Boring locations on the east side of the survey area were moved from the grass area to the asphalt road. This is due to electric and telephone lines in close vicinity on the grass, as well as a gas line on the other side of the road.

- NOVA adjusted some of the boring locations away from identified subsurface utilities and marked them in the vicinity.

- NOVA cleared and marked all proposed boring locations at the site.

If you have any questions, please do not hesitate to contact the undersigned.

Sincerely,

NOVA Geophysical Services

Levent Eskicakit, P.G., E.P.
Project Manager

Attachments:

Location Map
Survey Plan
Geophysical Images

NOVA
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Douglaston, New York 11362
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Site Location

SITE:	**Ferry Point Park Ring Road** 10 Hutchinson River Parkway Bronx, NY 10465
CLIENT:	LANGAN
DATE:	February 25th, 2025
AUTH:	Jason Staunton

Legend

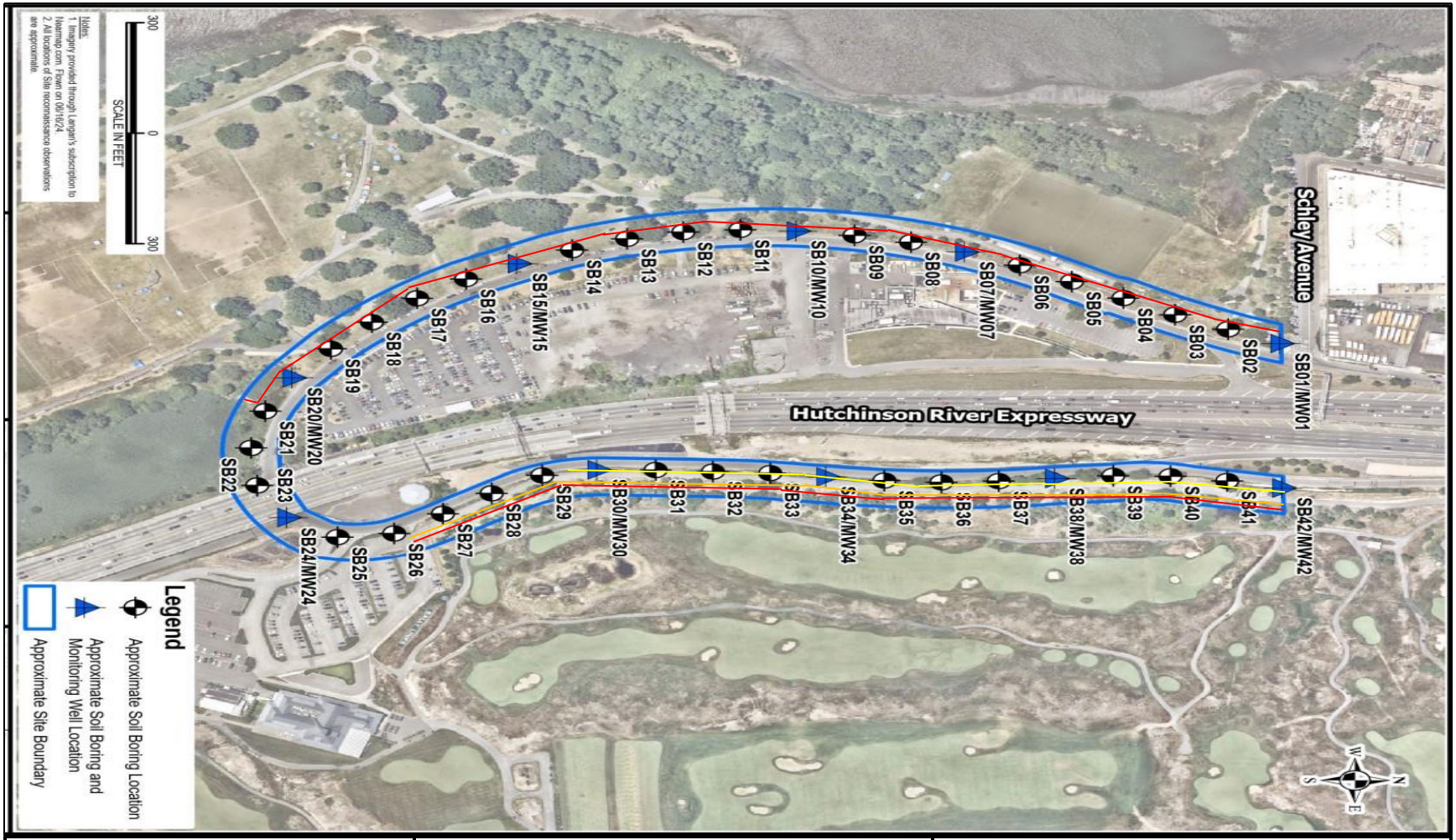

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SURVEY PLAN

SITE:	**Ferry Point Park Ring Road** 10 Hutchinson River Parkway Bronx, NY 10465
CLIENT:	LANGAN
DATE:	February 25th, 2025
AUTH:	Jason Staunton/ Tolga Ybas

Legend

- Survey Area
- Electric
- Gas
- Communication
- Proposed Boring Location

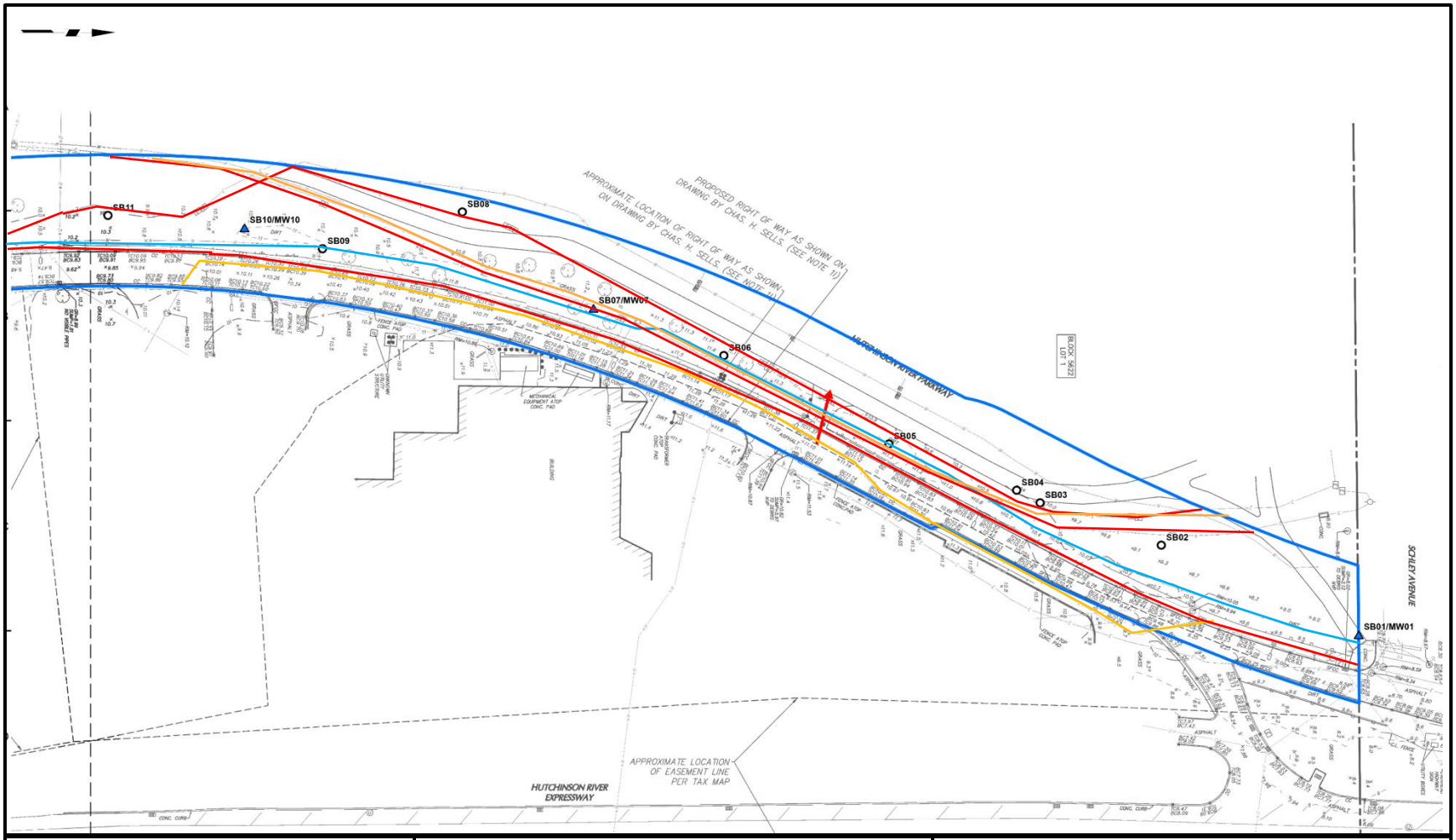

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SURVEY PLAN

SITE:	**Ferry Point Park Ring Road** 10 Hutchinson River Parkway Bronx, NY 10465
CLIENT:	LANGAN
DATE:	February 25th, 2025
AUTH:	Jason Staunton/ Tolga Ybas

Legend

- Survey Area
- Electric
- Gas
- Communication
- Water

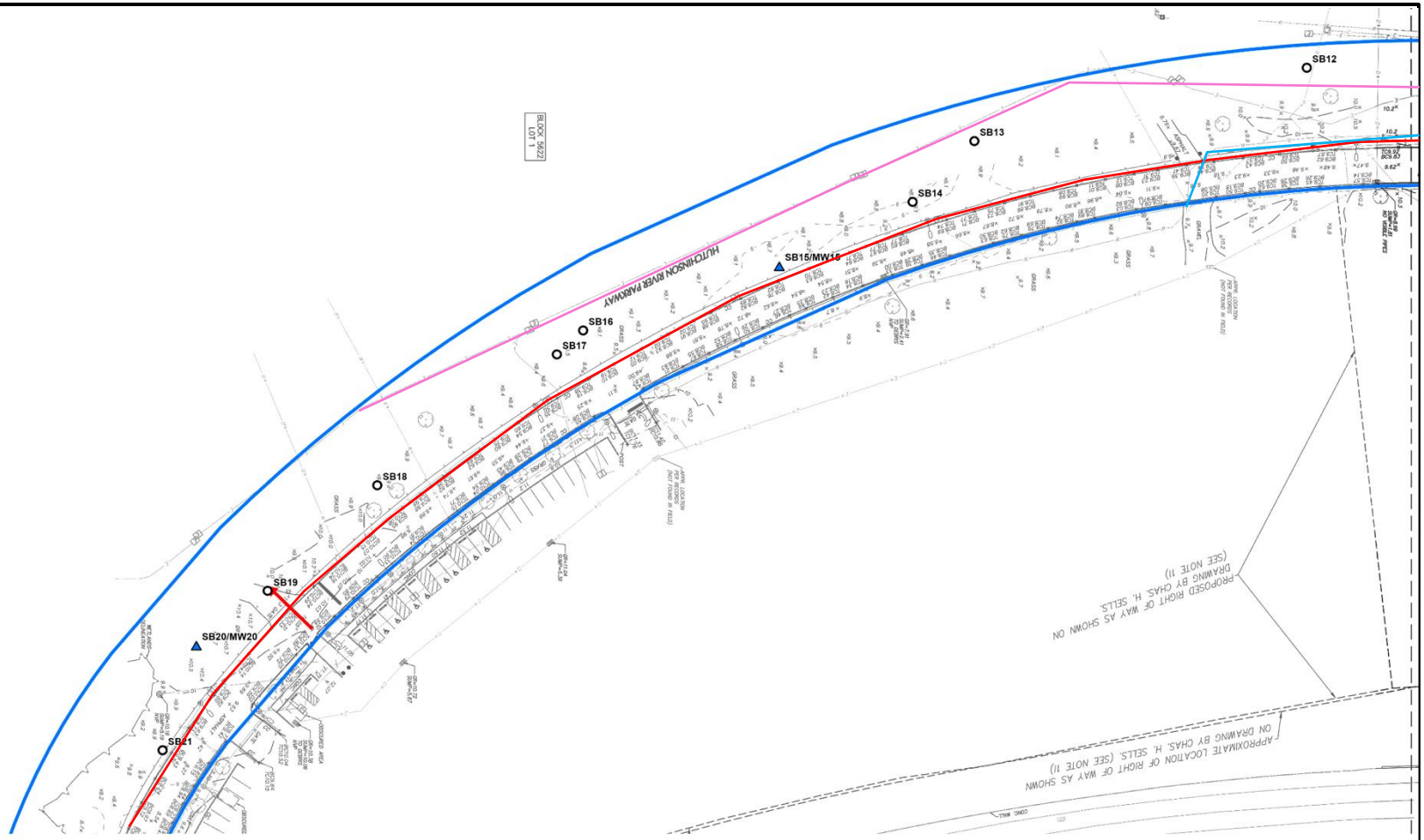

Notes:

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SURVEY PLAN

SITE:	**Ferry Point Park Ring Road** 10 Hutchinson River Parkway Bronx, NY 10465
CLIENT:	LANGAN
DATE:	February 25th, 2025
AUTH:	Jason Staunton/ Tolga Ybas

Legend

- Survey Area
- Electric
- Gas
- Communication
- Water
- Unknow Utility

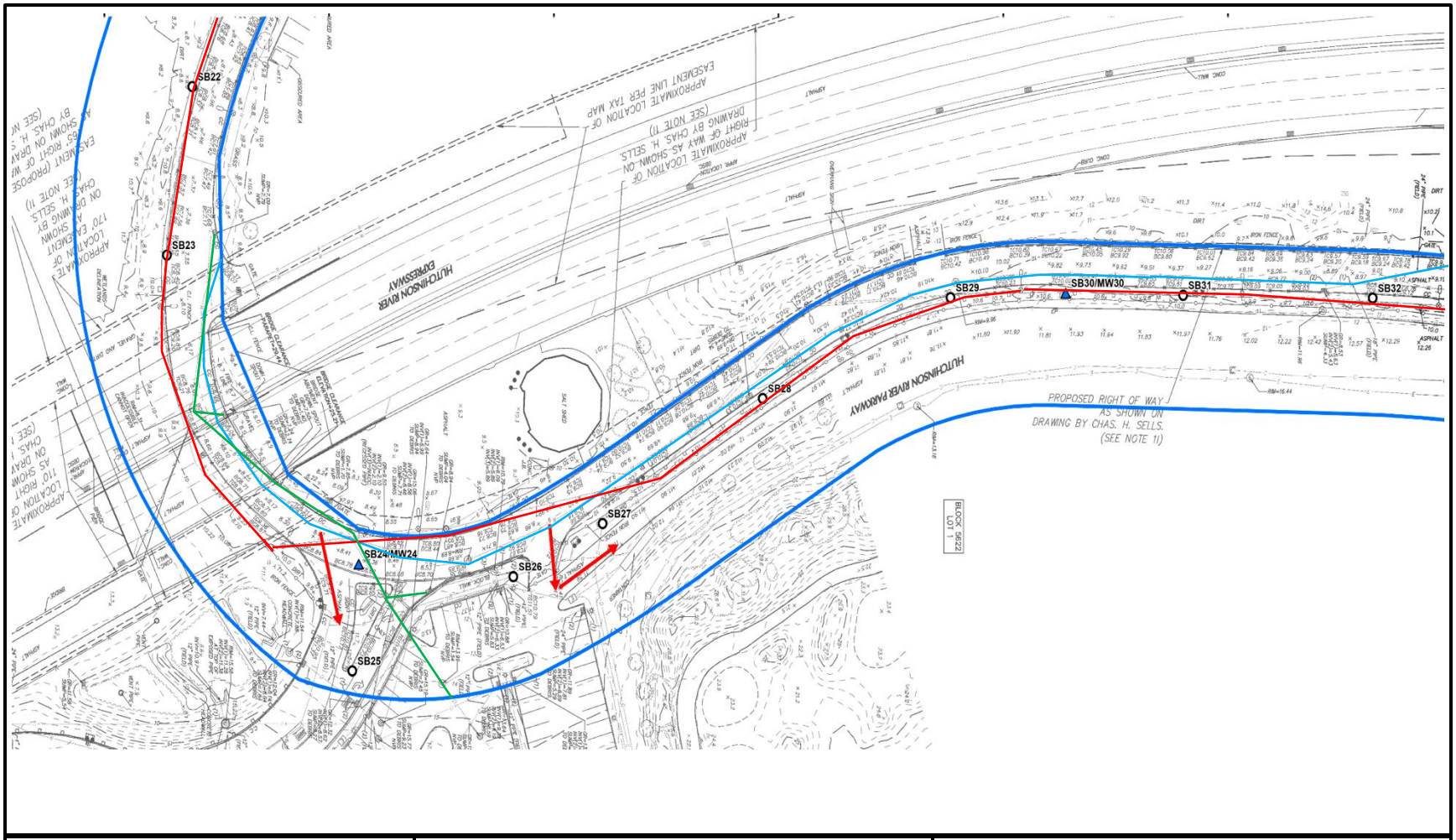

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Phone (347) 556-7787 * Fax (718) 261-1527
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SURVEY PLAN

SITE:	**Ferry Point Park Ring Road** 10 Hutchinson River Parkway Bronx, NY 10465
CLIENT:	LANGAN
DATE:	February 25th, 2025
AUTH:	Jason Staunton/ Tolga Ybas

Legend

- Survey Area
- Electric
- Gas
- Communication
- Water
- Drain

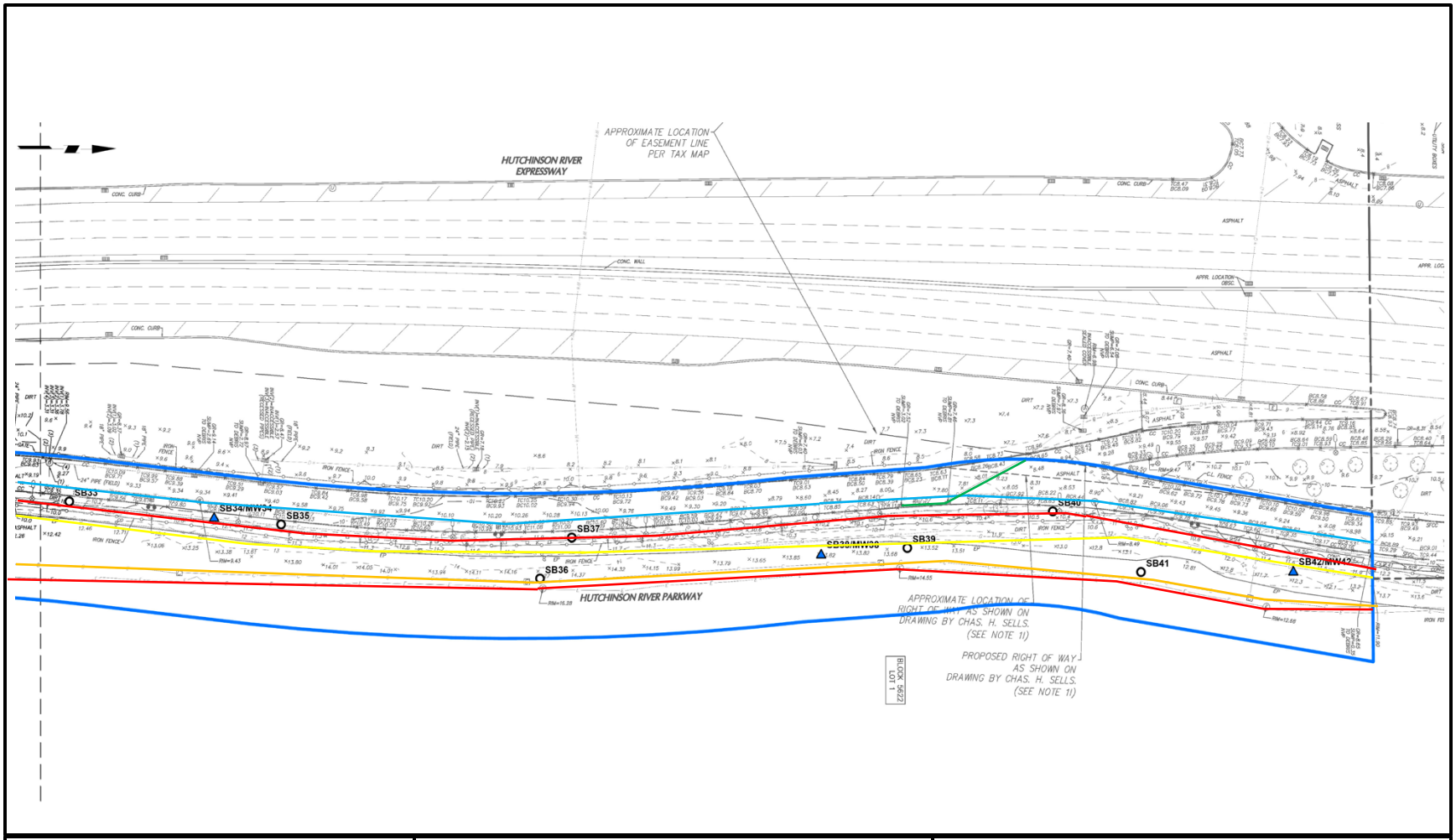

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Legend

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GEOPHYSICAL IMAGES

Ferry Point Park Ring Road
10 Hutchinson River Parkway
Bronx, NY 10465
February 25th, 2025

GEOPHYSICAL IMAGES

Ferry Point Park Ring Road
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Bronx, NY 10465
February 25th, 2025

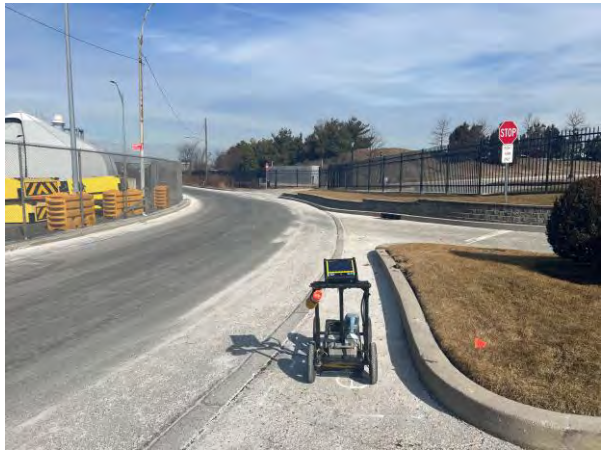

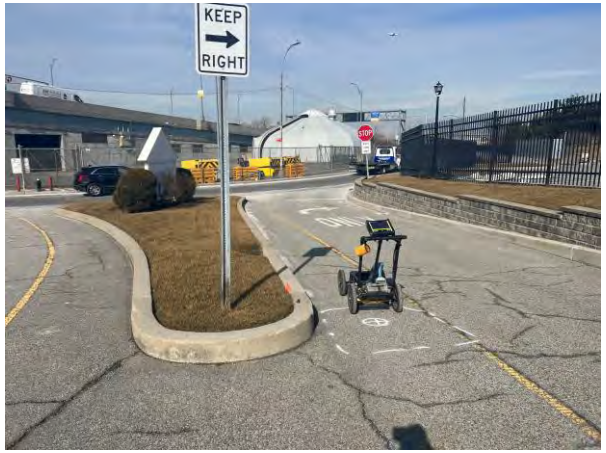

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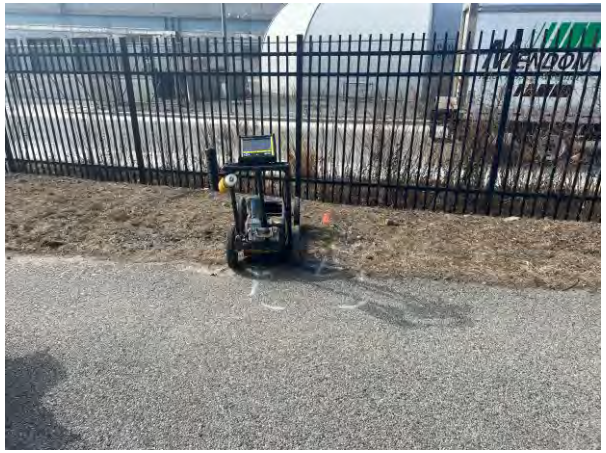

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GEOPHYSICAL IMAGES

Ferry Point Park Ring Road
10 Hutchinson River Parkway
Bronx, NY 10465
February 25th, 2025

Appendix C

Soil Boring Logs

LANGAN

Log of Boring **SB01/TMW01** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 6.0	Completion ▼	N/A
		24 HR. ▼	N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Dark brown to orangish brown fine SAND, trace silt, trace clay, trace fine subangular gravel, coal, coal ash, fibrous vegetation, woody vegetation (moist) [FILL]	M-1	Macrocore	44/48		0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	Pre-clear exempt by PIC SB01_0-2
		Brown to orangish grayish brown fine SAND, trace silt, trace clay, trace fine subangular gravel, coal, coal ash, fibrous vegetation, woody vegetation (moist) [FILL]	M-2A	Macrocore	46/48		0.3, 0.3, 0.4, 0.4, 0.5, 0.4, 0.6	SB01_5-7
		Brownish gray Clayey fine SAND, trace fine subangular to subrounded gravel, coal (wet) [FILL]	M-2B					
	N/A	End of Boring at 8.0ft.						Bottom of boring at 8ft bgs. Set 1-inch temporary monitoring well TMW01 with 10 feet of 0.020-slot screen PVC from 2' to 12' bgs. Following sampling, TMW01 was removed and borehole backfilled with clean soil cuttings and/or clean No. 2 sand to surface grade, and patched with surrounding grass to restore to original settings.

Depth Scale: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

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Log of Boring **SB02** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 4.5	Completion ▼	N/A
	24 HR. ▽		N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Dark brown to orangish brown fine SAND, trace silt, trace clay, trace fine subangular gravel, coal, coal ash, fibrous vegetation (moist) [FILL]	0					0.0	Pre-clear exempt by PIC
								0.0	SB02_0-2
			1					0.0	
				M-1A	Macrocore	43/48		0.0	
			2					0.0	
								0.0	
		Dark orangish brown Clayey fine SAND, trace silt, trace fine angular to subangular gravel, coal (moist) [FILL]	3					0.0	
				M-1B				0.0	
		Dark orangish brown Clayey fine SAND, trace silt, trace fine gravel, coal (moist) [FILL] ▽	4					0.0	
	N/A			M-2A				0.0	
		Grayish brown fine SAND, some clay, some fine to coarse subrounded gravel (wet) [SP-SC]	5					0.0	SB02_5-7
				M-2B	Macrocore	36/48		0.1	
	N/A		6					0.0	
		Grayish brown fine SAND, trace silt, trace fine subangular gravel (wet) [SP]						0.0	
			7	M-2C				0.0	
	N/A		8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.
		End of Boring at 8.0ft.	9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

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Log of Boring **SB03** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started / Date Finished	3/13/2025 / 3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth / Rock Depth	8.0 ft / Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples: Disturbed 2; Undisturbed 0; Core 0	
Casing Diameter (in) N/A; Casing Depth (ft) N/A		Water Level (ft.): First 5.6; Completion N/A; 24 HR. N/A	
Casing Hammer N/A; Weight (lbs) N/A; Drop (in) N/A		Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer N/A; Weight (lbs) N/A; Drop (in) N/A		Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Dark brown to grayish brown fine SAND, trace silt, some fine subangular gravel, coal, coal ash, fibrous vegetation (moist) [FILL]	M-1	Macrocore	46/48		0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	Pre-clear exempt by PIC SB03_0-2
		Dark grayish brown to grayish brown fine SAND, trace silt, some fine subangular gravel, coal, coalash, fibrous vegetation (moist) [FILL]	M-2A	Macrocore	37/48		0.0, 0.0, 0.0	SB03_5-7
		Tannish gray Sandy CLAY, trace fine subangular gravel, coal, woody vegetation, wood, coal ash (wet) [FILL]	M-2B				0.0, 0.0, 0.0, 0.0	
	N/A	End of Boring at 8.0ft.						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.

Depth Scale: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

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Log of Boring **SB04** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started: 3/4/2025	Date Finished: 3/4/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth: 8.0 ft	Rock Depth: Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples: Disturbed 2	Undisturbed 0; Core 0
Casing Diameter (in): N/A	Casing Depth (ft): N/A	Water Level (ft.): First N/A	Completion N/A; 24 HR. N/A
Casing Hammer: N/A	Weight (lbs): N/A; Drop (in): N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer: N/A	Weight (lbs): N/A; Drop (in): N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Dark brown to orangish brown fine SAND, trace silt, trace fine to coarse subangular gravel, coal, coal ash, fibrous vegetation, glass (moist) [FILL]	0					0.0	Pre-clear exempt by PIC
								0.0	SB04_0-2
			1					0.0	
								0.0	
			2	M-1	Macrocore	45/48		0.0	
								0.0	
			3					0.0	
								0.0	
			4					0.0	
		Black to dark gray fine SAND, trace silt, trace fine to coarse subangular gravel, coal, coal ash, fibrous vegetation, glass (moist) [FILL]		M-2A				0.0	
	N/A		5					0.0	SB04_5-7
		Dark gray CLAY, trace fine sand, trace fine subangular gravel, fibrous vegetation, woody vegetation (wet) [CL]						0.0	
			6		Macrocore	46/48		0.0	
				M-2B				0.0	
			7					0.0	
								0.0	
	N/A	End of Boring at 8.0ft.	8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

LANGAN

Log of Boring **SB05** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started: 3/13/2025	Date Finished: 3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth: 8.0 ft	Rock Depth: Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples: Disturbed 1	Undisturbed 0; Core 0
Casing Diameter (in): N/A	Casing Depth (ft): N/A	Water Level (ft.): First 5.5	Completion N/A; 24 HR. N/A
Casing Hammer: N/A	Weight (lbs): N/A; Drop (in): N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer: N/A	Weight (lbs): N/A; Drop (in): N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Brown to grayish brown fine SAND, trace clay, some fine subangular gravel, rootlets, coal (moist) [FILL]	0	PD-1	DIST	0/60		0.0	Pre-cleared to 5 ft with hand auger
								0.0	SB05_0-2
			1					0.0	
								0.0	
			2					0.0	
								0.0	
			3					0.0	
								0.0	
			4					0.0	
								0.0	
		Grayish brown Clayey fine SAND, trace fine subangular gravel, coal (moist) [FILL]	5	M-1A	Macrocore	31/36			SB05_5-7
	N/A	Grayish brown Clayey fine SAND, trace fine gravel, coal (wet) [FILL]	6	M-1B					
		Dark gray CLAY, trace fine sand, trace fine subangular gravel, fibrous vegetation (wet) [CL]	7	M-1C					
	N/A	End of Boring at 8.0ft.	8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

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Log of Boring **SB06**

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 5.6	Completion ▼	N/A
	24 HR. ▽		N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Dark brown to grayish brown fine SAND, trace clay, some silt, trace fine subangular gravel, coal ash, coal, glass, fibrous vegetation (moist) [FILL]	0					0.0	Pre-clear exempt by PIC
								0.0	SB06_0-2
			1					0.0	
								0.0	
			2	M-1	Macrocore	44/48		0.0	
								0.0	
			3					0.0	
								0.0	
			4					0.0	
		Dark brown to grayish brown fine SAND, trace clay, some silt, trace fine subangular gravel, coal ash, coal, glass, fibrous vegetation (moist) [FILL]						0.0	
			5	M-2A				0.0	SB06_5-7
	N/A							0.0	
		Dark gray CLAY, trace sand, fibrous vegetation (wet) [CL]	6		Macrocore	34/48		0.0	
								0.0	
			7	M-2B					
	N/A		8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.
		End of Boring at 8.0ft.							
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

LANGAN

Log of Boring **SB07/TMW07** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started: 3/13/2025	Date Finished: 3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth: 8.0 ft	Rock Depth: Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples: Disturbed 2	Undisturbed 0; Core 0
Casing Diameter (in): N/A	Casing Depth (ft): N/A	Water Level (ft.): First ▽ 4.5	Completion ▼ N/A; 24 HR. ▼ N/A
Casing Hammer: N/A	Weight (lbs): N/A; Drop (in): N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer: N/A	Weight (lbs): N/A; Drop (in): N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Brown to dark brown fine SAND, trace silt, some fine subangular gravel, coal, coal ash, fibrous vegetation (moist) [FILL]	0					0.0	Pre-clear exempt by PIC
								0.0	SB07_0-2
			1					0.0	
								0.0	
			2	M-1	Macrocore	43/48		0.0	
								0.0	
			3					0.0	
								0.0	
			4					0.0	
		Brown to dark brown Clayey fine SAND, some fine gravel, concrete, coal, coalash, fibrous vegetation (moist) [FILL] ▽		M-2A				0.0	
		Brown to dark brown Clayey fine SAND, some fine gravel, coal, concrete, coal ash, fibrous vegetation (wet) [FILL]	5					0.0	SB07_5-7
								0.0	
			6	M-2B	Macrocore	34/48		0.0	
								0.0	
			7						
	N/A	End of Boring at 8.0ft.	8						Bottom of boring at 8ft bgs. Set 1-inch temporary monitoring well TMW07 with 10 feet of 0.020-slot screen PVC from 2' to 12' bgs. Following sampling, TMW07 was removed and borehole backfilled with clean soil cuttings and/or clean No. 2 sand to surface grade, and patched with surrounding grass to restore to original settings.
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

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Log of Boring **SB08** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 5.8	Completion ▼	N/A
		24 HR. ▼	N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Dark brown to orangish brown fine SAND, trace silt, some fine subangular gravel, fibrous vegetation, coal, coal ash (moist) [FILL]	M-1	Macrocore	37/48		0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	Pre-clear exempt by PIC SB08_0-2
		Orangish brown to brownish black fine SAND, trace clay, some fine subangular gravel, fibrous vegetation, coal, coal ash, wood (moist) [FILL]	M-2A	Macrocore	40/48		0.0, 0.0, 0.0, 0.0	SB08_5-7
		Orangish brown to brownish black fine SAND, some fine gravel, fibrous vegetation, coal, coal ash, wood, trace clay, slight creosote odor and timber at 7 ft (wet) [FILL]	M-2B				0.0, 0.0, 0.0	
	N/A	End of Boring at 8.0ft.						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.

Depth Scale: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

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Log of Boring **SB09** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 5.2	Completion ▼	N/A
		24 HR. ▼	N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Brown to dark gray fine SAND, trace clay, trace silt, trace fine subangular to subrounded gravel, fibrous vegetation, coal ash, coal (moist) [FILL]	0					0.0	Pre-clear exempt by PIC
								0.0	SB09_0-2
			1					0.0	
								0.0	
			2	M-1	Macrocore	41/48		0.0	
								0.0	
			3					0.0	
		Brown to dark gray fine SAND, some clay, trace fine subangular gravel, fibrous vegetation, coal ash, coal (moist) [FILL]	4					0.0	
				M-2A				0.0	
	N/A		5	M-2B				0.0	SB09_5-7
		Dark gray CLAY, trace fine sand, trace fine subangular gravel, fibrous vegetation (moist) [CL]						0.0	
		Dark gray CLAY, trace fine sand, trace fine gravel , fibrous vegetation (wet) [CL]	6					0.0	
				M-2C	Macrocore	41/48		0.0	
			7					0.0	
	N/A		8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.
		End of Boring at 8.0ft.							
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

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Log of Boring **SB10/TMW10** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started / Date Finished	3/4/2025 / 2/28/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth / Rock Depth	8.0 ft / Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples: Disturbed 2; Undisturbed 0; Core 0	
Casing Diameter (in) N/A; Casing Depth (ft) N/A		Water Level (ft.): First N/A; Completion N/A; 24 HR. N/A	
Casing Hammer N/A; Weight (lbs) N/A; Drop (in) N/A		Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer N/A; Weight (lbs) N/A; Drop (in) N/A		Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Dark brown to grayish brown fine SAND, trace silt, trace clay, trace fine subangular gravel, glass, coal, coal ash, fibrous vegetation, rootlets (moist) [FILL]	M-1	Macrocore	44/48		0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	Pre-clear exempt by PIC SB10_0-2
	N/A	Dark brown fine SAND, trace silt, trace clay, trace fine subangular gravel, glass, coal, coal ash, fibrous vegetation, rootlets (moist) [FILL]	M-2A, M-2B, M-2C	Macrocore	46/48		0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	SB10_5-7
	N/A	Dark gray CLAY, trace fine sand, trace fine subangular gravel, fibrous vegetation, wood (moist) [CL] Dark gray CLAY, trace fine sand, trace fine gravel, fibrous vegetation, wood (wet) [CL]						
		End of Boring at 8.0ft.						Bottom of boring at 8ft bgs. Set 1-inch temporary monitoring well TMW10 with 10 feet of 0.020-slot screen PVC from 2' to 12' bgs. Following sampling, TMW10 was removed and borehole backfilled with clean soil cuttings and/or clean No. 2 sand to surface grade, and patched with surrounding grass to restore to original settings.

Depth Scale: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

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Log of Boring **SB11**

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started: 3/12/2025	Date Finished: 3/12/2025
Drilling Equipment	PowerProbe9100P	Completion Depth: 8.0 ft	Rock Depth: Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples: Disturbed 2	Undisturbed 0; Core 0
Casing Diameter (in): N/A	Casing Depth (ft): N/A	Water Level (ft.): First ▽ 4.0	Completion ▼ N/A; 24 HR. ▽ N/A
Casing Hammer: N/A	Weight (lbs): N/A; Drop (in): N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer: N/A	Weight (lbs): N/A; Drop (in): N/A	Field Engineer	Olivia Miller

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Dark brown to brown fine SAND, trace clay, trace subangular gravel, coal ash (moist) [FILL]	0					0.0	Pre-clear exempt by PIC
								0.0	SB11_0-2
			1					0.0	
								0.0	
			2	M-1	Macrocore	38/48		0.0	
								0.0	
			3					0.0	
	N/A		4					0.0	
		Grayish brown to dark gray fine SAND, trace clay, trace subangular gravel (wet) [SP-SC]						0.0	
			5					0.0	SB11_5-7
								0.0	
			6	M-2	Macrocore	48/48		0.0	
								0.0	
			7					0.0	
								0.0	
	N/A	End of Boring at 8.0ft.	8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

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Log of Boring **SB12** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 4.0	Completion ▼	N/A
		24 HR. ▼	N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Dark brown fine SAND, trace clay, some fine subangular gravel, coal, coal ash, rootlets, wood (moist) [FILL]	M-1	Macrocore	45/48		0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	Pre-clear exempt by PIC SB12_0-2
		Dark brown fine SAND, some clay, some fine to coarse subangular to subrounded gravel, coal, coal ash (wet) [FILL]	M-2	Macrocore	41/48		0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	SB12_5-7
	N/A	End of Boring at 8.0ft.						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.

Depth Scale: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

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Log of Boring **SB13** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/12/2025
		Date Finished	3/12/2025
Drilling Equipment	PowerProbe9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 4.0	Completion ▼	N/A
	24 HR. ▽		N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Olivia Miller

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Brown fine SAND, trace subangular gravel, trace clay (moist) [FILL]	0					0.0	Pre-clear exempt by PIC
								0.0	SB13_0-2
			1					0.0	
								0.0	
			2	M-1	Macrocore	44/48		0.0	
								0.0	
			3					0.0	
								0.0	
	N/A		4					0.0	
		Grayish brown fine SAND, some clay, trace subangular gravel (wet) [SP-SC]						0.0	
			5					0.0	SB13_5-7
								0.0	
			6	M-2	Macrocore	42/48		0.0	
								0.0	
			7					0.0	
								0.0	
	N/A		8						
		End of Boring at 8.0ft.							Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

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Log of Boring **SB14** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/4/2025
		Date Finished	3/4/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 3.5	Completion ▼ N/A	24 HR. ▼ N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Dark brown to tannish brown fine SAND, trace clay, trace fine subangular gravel, rootlets, coal (moist) [FILL]	M-1A	Macrocore	41/48		0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	Pre-clear exempt by PIC; SB14_0-2
	N/A	Brown fine SAND, trace clay, trace fine subangular to subrounded gravel (wet) [SP-SC] ▽	M-1B					
		Brown fine SAND, trace clay, some fine subangular to subrounded gravel (wet) [SP-SC]	M-2	Macrocore	35/48		0.0, 0.0, 0.0, 0.0, 0.0, 0.0	SB14_5-7
	N/A	End of Boring at 8.0ft.						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.

Depth Scale: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

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Log of Boring **SB15/TMW15** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 4.0; Completion ▼ N/A; 24 HR. ▼ N/A		
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Dark brown to brown fine SAND, trace clay, trace subangular gravel (moist) [FILL]	0					0.0	Pre-clear exempt by PIC
								0.0	SB15_0-2
			1					0.0	
								0.0	
			2	M-1	Macrocore	39/48		0.0	
								0.0	
			3					0.0	
	N/A		4					0.0	
		Brown to grayish brown fine SAND, some clay, trace subangular gravel (wet) [SP-SC]						0.0	
			5	M-2A				0.0	SB15_5-7
								0.0	
			6		Macrocore	40/48		0.0	
		Brown fine SAND, trace clay, trace subrounded gravel (wet) [SP-SC]						0.0	
			7	M-2B				0.0	
	N/A		8						Bottom of boring at 8ft bgs. Set 1-inch temporary monitoring well TMW15 with 10 feet of 0.020-slot screen PVC from 2' to 12' bgs. Following sampling, TMW15 was removed and borehole backfilled with clean soil cuttings and/or clean No. 2 sand to surface grade, and patched with surrounding grass to restore to original settings.
		End of Boring at 8.0ft.	9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

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Log of Boring **SB16** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 4.8	Completion ▼	N/A
	24 HR. ▽▼		N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Dark brown to tannish brown fine SAND, trace clay, trace fine to coarse subangular gravel, rootlets, woody vegetation, coal (moist) [FILL]	0					0.0	Pre-clear exempt by PIC
								0.0	SB16_0-2
			1					0.0	
								0.0	
			2	M-1	Macrocore	41/48		0.0	
								0.0	
			3					0.0	
	N/A	Tannish brown fine SAND, trace clay, trace fine to coarse subrounded gravel, fibrous vegetation (moist) [SW-SC]	4					0.0	
				M-2A				0.0	
		Tannish brown fine SAND, trace clay, trace fine to coarse gravel, fibrous vegetation (wet) [SW-SC] ▽	5					0.0	SB16_5-7
								0.0	
			6	M-2B	Macrocore	26/48		0.0	
			7						
	N/A	End of Boring at 8.0ft.	8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

LANGAN

Log of Boring **SB17**

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First N/A; Completion N/A; 24 HR. N/A		
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Dark brown to tannish brown fine SAND, trace clay, some fine to coarse subangular to subrounded gravel, rootlets, coal (moist) [FILL]	0					0.0	Pre-clear exempt by PIC
								0.0	SB17_0-2
			1					0.0	
								0.0	
			2	M-1	Macrocore	34/48		0.0	
								0.0	
			3						
		Tannish brown fine SAND, trace clay, some fine to coarse gravel, rootlets, coal (moist) [FILL]	4					0.0	
								0.0	
			5					0.0	SB17_5-7
								0.0	
			6	M-2	Macrocore	24/48		0.0	
			7						
	N/A	End of Boring at 8.0ft.	8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

LANGAN

Log of Boring **SB18**

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	N/A	Date Started	4/4/2025
		Date Finished	4/4/2025
Drilling Equipment	N/A	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	N/A	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First N/A; Completion N/A; 24 HR. N/A		
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Brennan Duarte

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Grayish brown to tannish brown Clayey SAND, trace clay, trace limestone, trace subangular gravel, trace rootlets, trace woody vegetation (moist) [SP-SC]	0					0.0	Pre-clear exempt by PIC
								0.0	SB18_0-2
			1					0.0	
								0.0	
			2	M-1	Macrocore	37/48		0.0	
								0.0	
			3					0.0	
		Tannish brown Sandy CLAY, trace subrounded gravel, trace limestone, trace coal (moist) [SP-SC]	4					0.0	
								0.0	
			5					0.0	SB18_5-7
								0.0	
			6	M-2	Macrocore	35/48		0.0	
								0.0	
			7						
	N/A	End of Boring at 8.0ft.	8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

LANGAN

Log of Boring **SB19** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services	Date Started	4/4/2025
		Date Finished	4/4/2025
Drilling Equipment	PowerProbe 9100	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	Not Applicable	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First N/A; Completion N/A; 24 HR. N/A		
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Brennan Duarte

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Dark brown to tannish brown fine SAND, trace clay, trace fine subangular gravel, trace rootlets, trace woody vegetation, trace coal, trace coal ash (moist) [SP-SC]	0					0.0	Pre-clear exempt by PIC
								0.0	SB19_0-2
			1					0.0	
								0.0	
			2	M-1	Macrocore	32/48		0.0	
								0.0	
			3						
		Tannish brown to grayish brown Sandy CLAY, trace subangular gravel (moist) [SP-SC]	4					0.0	
								0.0	
			5					0.0	Pre-clear exempt by PIC
								0.0	
			6	M-2	Macrocore	37/48		0.0	
								0.0	
			7					0.0	
	N/A	End of Boring at 8.0ft.	8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

LANGAN

Log of Boring **SB20/TMW20** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 5.5	Completion ▼	N/A
		24 HR. ▼	N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Grayish brown to brown fine SAND, trace clay, trace subangular gravel (wet) [FILL]	M-1	Macrocore	42/48		0.0	Pre-clear exempt by PIC
							0.0	SB20_0-2
							0.0	
							0.0	
							0.0	
							0.0	
							0.0	
							0.0	
							0.0	
		Grayish brown to brown fine SAND, trace clay, trace subangular gravel(wet) [FILL]	M-2	Macrocore	43/48		0.0	
							0.0	
							0.0	SB20_5-7
							0.0	
							0.0	
							0.0	
							0.0	
							0.0	
	N/A	End of Boring at 8.0ft.						Bottom of boring at 8ft bgs. Set 1-inch temporary monitoring well TMW20 with 10 feet of 0.020-slot screen PVC from 2' to 12' bgs. Following sampling, TMW20 was removed and borehole backfilled with clean soil cuttings and/or clean No. 2 sand to surface grade, and patched with surrounding grass to restore to original settings.

Depth Scale: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

LANGAN

Log of Boring **SB21** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 6.3	Completion ▼	N/A
	24 HR. ▽		N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Dark brown to brownish gray fine SAND, trace clay, trace fine to coarse subangular to subrounded gravel, rootlets, coal (moist) [FILL]	0					0.0	Pre-clear exempt by PIC
								0.0	SB21_0-2
			1					0.0	
				M-1A	Macrocore	40/48		0.0	
			2					0.0	
								0.0	
			3					0.0	
				M-1B					
	N/A	Brownish gray fine SAND, trace clay, trace fine subrounded gravel (moist) [SP-SC]							
		Brownish gray fine SAND, trace clay, trace fine to coarse subangular to subrounded gravel (moist) [SP-SC]	4					0.0	
								0.0	
			5	M-2A				0.0	SB21_5-7
								0.0	
			6		Macrocore	31/48		0.0	
		Brownish gray fine SAND, trace clay, trace fine to coarse gravel (wet) [SP-SC]						0.0	
			7	M-2B					
	N/A	End of Boring at 8.0ft.	8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

LANGAN

Log of Boring **SB23** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 0.8	Completion ▼ N/A	24 HR. ▼ N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Dark brown to tannish brown fine SAND, trace clay, trace fine subangular gravel, rootlets, coal (moist) [FILL]	0	M-1A	Macrocore	39/48		0.0	Pre-clear exempt by PIC
								0.0	SB23_0-2
		Dark brown to tannish brown fine SAND, trace clay, trace fine gravel, rootlets, coal (wet) [FILL]	1					0.0	
								0.0	
			2	M-1B				0.0	
								0.0	
			3					0.0	
	N/A	Dark brown to tannish brown fine SAND, trace clay, trace fine gravel, rootlets, coal (wet) [FILL]	4	M-2A		40/48		0.0	
								0.0	
		Brown to tannish brown fine SAND, trace clay, some fine subrounded to subangular gravel (wet) [SW-SC]	5					0.0	SB23_5-7
								0.0	
			6	M-2B				0.0	
								0.0	
			7					0.0	
	N/A	End of Boring at 8.0ft.	8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

LANGAN

Log of Boring **SB24** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started: 3/13/2025	Date Finished: 3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth: 8.0 ft	Rock Depth: Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples: Disturbed 2	Undisturbed 0; Core 0
Casing Diameter (in): N/A	Casing Depth (ft): N/A	Water Level (ft.): First ▽ 5.5	Completion ▼ N/A; 24 HR. ▽ N/A
Casing Hammer: N/A	Weight (lbs): N/A; Drop (in): N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer: N/A	Weight (lbs): N/A; Drop (in): N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	ASPHALT	0					0.0	Pre-clear exempt by PIC
				PD-1 A	DIST	0/12		0.0	SB24_0-2
	N/A		1	PD-1 B				0.0	
								0.0	
			2					0.0	
				M-1	Macrocore	32/36		0.0	
			3						
		Black to tannish brown fine SAND, trace clay, some fine gravel, coal (moist) [FILL]	4					0.0	
								0.0	
				M-2A					
			5					0.0	SB24_5-7
	N/A							0.0	
		Tannish brown fine SAND, trace clay, some coarse subrounded to subangular gravel (wet) [SP-SC]	6		Macrocore	37/48		0.0	
								0.0	
				M-2B					
			7					0.0	
	N/A		8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.
		End of Boring at 8.0ft.							
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

LANGAN

Log of Boring **SB25** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 5.6	Completion ▼ N/A	24 HR. ▼ N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	ASPHALT	0	PD-1 A	DIST	0/12			Pre-clear exempt by PIC SB25_0-2
	N/A	Tannish gray fine SAND, trace clay, trace fine subangular gravel, coal, coal ash, glass (moist) [FILL]	1	PD-1 B				0.0	
			2	M-1	Macrocore	36/36		0.0	
			3					0.0	
			4	M-2A				0.0	
			5					0.0	SB25 _5-7
			6			36/48		0.0	
			7	M-2B				0.0	
		End of Boring at 8.0ft.	8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

LANGAN

Log of Boring **SB26** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/5/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 1; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 6.8	Completion ▼	N/A
	24 HR. ▼		N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	ASPHALT	0	PD-1 A	DIST	0/60		0.0	Precleared to 5ft bgs with hand auger
								0.0	SB26_0-2
	N/A	Grayish brown to brown fine SAND, trace clay, some fine subangular gravel, coal (moist) [FILL]	1					0.0	
								0.0	
			2					0.0	
								0.0	
			3	PD-1 B				0.0	
								0.0	
			4					0.0	
								0.0	
		Tannish brown fine SAND, some clay, some fine subangular gravel, root, coal, coal ash (moist) [FILL]	5					0.0	SB27_5-7
								0.0	
			6	M-1A	Macrocore	29/36		0.0	
								0.0	
		Tannish brown fine SAND, some clay, some fine gravel, root, coal, coal ash (wet) [FILL]	7					0.0	
				M-1B				0.0	
	N/A	End of Boring at 8.0ft.	8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

LANGAN

Log of Boring **SB27/TMW27** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 1; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 5.5; Completion ▼ N/A; 24 HR. ▽ N/A		
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	ASPHALT	0	PD-1 A	DIST	0/60		0.0	Precleared to 5ft bgs with hand auger
	N/A	Brown to dark brown fine SAND, some fine subangular gravel, woody vegetation, trace silt, concrete (moist) [FILL]	1					0.0	SB27_0-2
			2					0.0	
			3	PD-1 B				0.0	
			4					0.0	
			5					0.0	SB27_5-7
	N/A	Dark brown fine SAND, some clay, trace fine subangular gravel, wood, construction debris (moist) [FILL] ▽ Dark brown fine SAND, some clay, trace fine gravel, wood, construction debris (wet) [FILL]		M-1A				0.0	
			6	M-1B				0.0	
		Dark gray Sandy CLAY, trace fine subangular to subrounded gravel (wet) [SC]	7	M-1C	HA	36/36		0.0	
	N/A	End of Boring at 8.0ft.	8					0.0	Bottom of boring at 8ft bgs. Set 1-inch temporary monitoring well TMW27 with 10 feet of 0.020-slot screen PVC from 6' to 16' bgs. Following sampling, TMW27 was removed and borehole backfilled with clean soil cuttings and/or clean No. 2 sand to surface grade, and patched with surrounding grass to restore to original settings.
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

LANGAN

Log of Boring **SB28**

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started: 3/13/2025	Date Finished: 3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth: 8.0 ft	Rock Depth: Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed: 2; Undisturbed: 0; Core: 0
Casing Diameter (in): N/A	Casing Depth (ft): N/A	Water Level (ft.)	First: 5.2; Completion: N/A; 24 HR.: N/A
Casing Hammer: N/A	Weight (lbs): N/A; Drop (in): N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer: N/A	Weight (lbs): N/A; Drop (in): N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Tan fine SAND, trace silt, trace fine subangular gravel, rootlets (moist) [FILL]	0					0.0	Pre-clear exempt by PIC
				M-1A				0.0	SB28_0-2
			1					0.0	
		Dark brown fine SAND, some clay, trace fine subangular gravel, concrete, coal, coal ash (moist) [FILL]						0.0	
			2		Macrocore	40/48		0.0	
				M-1B				0.0	
			3					0.0	
			4					0.0	
		Dark brown fine SAND, some clay, trace fine subangular gravel, concrete, coal, coal ash (moist) [FILL]		M-2A				0.0	
	N/A		5					0.0	SB28_5-7
		Dark gray CLAY, trace fine sand, trace fine subangular to subrounded gravel, fibrous vegetation (wet) [CL]	6		Macrocore	17/48			
				M-2B					
			7						
	N/A		8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.
		End of Boring at 8.0ft.	9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

LANGAN

Log of Boring **SB29** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started: 3/13/2025	Date Finished: 3/7/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth: 8.0 ft	Rock Depth: Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples: Disturbed 2	Undisturbed 0; Core 0
Casing Diameter (in): N/A	Casing Depth (ft): N/A	Water Level (ft.): First ▽ 4.5	Completion ▼ N/A; 24 HR. ▽ N/A
Casing Hammer: N/A	Weight (lbs): N/A; Drop (in): N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer: N/A	Weight (lbs): N/A; Drop (in): N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Tannish brown fine SAND, trace silt, trace fine subangular gravel, fibrous vegetation, construction debris (moist) [FILL]	0					0.0	Pre-clear exempt by PIC
				M-1A	Macrocore	44/48		0.0	SB29_0-2
			1					0.0	
		Brown fine SAND, trace clay, some fine subangular gravel, fibrous vegetation, coal, coal ash, glass (moist) [FILL]						0.0	
			2					0.0	
				M-1B				0.0	
			3					0.0	
								0.0	
		Brown fine SAND, trace clay, trace fine subangular gravel, fibrous vegetation, coal, coal ash, glass (wet) [FILL] ▽	4					0.0	
				M-2A				0.0	
	N/A		5					0.0	SB29_5-7
		Dark gray CLAY, some fine sand, fibrous vegetation, woody vegetation (wet) [CL]						0.0	
			6		Macrocore	40/48		0.0	
				M-2B				0.0	
			7					0.0	
	N/A		8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.
		End of Boring at 8.0ft.	9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

LANGAN

Log of Boring **SB30** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	7.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 4.0	Completion ▼	N/A
	24 HR. ▽		N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Dark brown fine SAND, trace clay, some fine subangular gravel, rootlets, glass, coal (moist) [FILL]	0					0.0	Pre-clear exempt by PIC
								0.0	SB30_0-2
			1					0.0	
								0.0	
			2	M-1	Macrocore	40/48		0.0	
								0.0	
			3					0.0	
		Dark brown fine SAND, trace clay, some fine subangular to subrounded gravel, fibrous vegetation (wet) [FILL]	4					0.0	
								0.0	
			5					0.0	SB30_5-7
				M-2	Macrocore	18/36		0.0	
			6						
	N/A	End of Boring at 7.0ft.	7						Bottom of boring at 7ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

LANGAN

Log of Boring **SB31/TMW31** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 4.5	Completion ▼	N/A
		24 HR. ▼	N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Dark brown fine SAND, trace clay, some fine to coarse subangular gravel, construction debris, concrete, coal (moist) [FILL]	0					0.0	Pre-clear exempt by PIC
								0.0	SB31_0-2
			1					0.0	
								0.0	
			2	M-1	Macrocore	42/48		0.0	
								0.0	
			3					0.0	
								0.0	
			4					0.0	
		Dark brown fine SAND, trace clay, some fine to coarse gravel, construction debris, concrete, coal, glass (moist) [FILL] ▽		M-2A				0.0	
		Dark brown fine SAND, trace clay, some fine to coarse gravel, construction debris, concrete, coal, glass (wet) [FILL]	5					0.0	SB31_5-7
								0.0	
			6	M-2B	Macrocore	21/48			
			7						
	N/A		8						Bottom of boring at 8ft bgs. Set 1-inch temporary monitoring well TMW31 with 10 feet of 0.020-slot screen PVC from 5' to 15' bgs. Following sampling, TMW31 was removed and borehole backfilled with clean soil cuttings and/or clean No. 2 sand to surface grade, and patched with surrounding grass to restore to original settings.
		End of Boring at 8.0ft.	9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

LANGAN

Log of Boring **SB32** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 4.7	Completion ▼ N/A	24 HR. ▽ N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Brown to dark brown fine SAND, trace clay, some fine subangular gravel, glass, construction debris (moist) [FILL]	0					0.0	Pre-clear exempt by PIC
								0.0	SB32_0-2
			1					0.0	
								0.0	
			2	M-1	Macrocore	36/48		0.0	
								0.0	
			3					0.0	
		Brown to black SAND, trace clay, some fine subangular gravel, construction debris, coal, wood, glass, fibrous vegetation (moist) [FILL]	4	M-2A				0.0	
								0.0	
		Brown to black SAND, trace clay, some fine gravel, construction debris, coal, wood, glass, fibrous vegetation (wet) [FILL]	5					0.0	SB32_5-7
								0.0	
			6	M-2B	Macrocore	37/48		0.0	
								0.0	
			7					0.0	
	N/A	End of Boring at 8.0ft.	8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

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Log of Boring **SB33** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 4.0	Completion ▼ N/A	24 HR. ▼ N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Dark brown fine SAND, trace clay, some fine subangular gravel, rootlets, construction debris, glass (moist) [FILL]	M-1	Macrocore	41/48		0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	Pre-clear exempt by PIC; SB33_0-2
		Dark brown fine SAND, trace clay, some fine gravel, rootlets, construction debris, glass (moist) [FILL]	M-2	Macrocore	34/48		0.0, 0.0, 0.0, 0.0, 0.0, 0.0	SB33_5-7
	N/A	End of Boring at 8.0ft.						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.

Depth Scale: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

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Log of Boring **SB34/TMW34** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 5.0	Completion ▼	N/A
		24 HR. ▼	N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Brown fine SAND, trace clay, some fine to coarse subangular gravel, rootlets, glass, brick, coal (moist) [FILL]	M-1	Macrocore	38/48		0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	Pre-clear exempt by PIC; SB34_0-2
		Brown fine SAND, trace clay, some fine to coarse subangular gravel, rootlets, glass, brick, coal, wood (moist) [FILL]	M-2A	Macrocore	43/48		0.0, 0.0	
		Brown fine SAND, trace clay, some fine to coarse gravel, rootlets, glass, brick, coal, wood (wet) [FILL]	M-2B	Macrocore	43/48		0.0, 0.0, 0.0, 0.0, 0.0, 0.0	SB34_5-7
	N/A	End of Boring at 8.0ft.						Bottom of boring at 8ft bgs. Set 1-inch temporary monitoring well TMW34 with 10 feet of 0.020-slot screen PVC from 5' to 15' bgs. Following sampling, TMW34 was removed and borehole backfilled with clean soil cuttings and/or clean No. 2 sand to surface grade, and patched with surrounding grass to restore to original settings.

Depth Scale: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

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Log of Boring **SB35** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started: 3/13/2025	Date Finished: 3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth: 8.0 ft	Rock Depth: Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples: Disturbed 2	Undisturbed 0; Core 0
Casing Diameter (in): N/A	Casing Depth (ft): N/A	Water Level (ft.): First 5.6	Completion N/A; 24 HR. N/A
Casing Hammer: N/A	Weight (lbs): N/A; Drop (in): N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer: N/A	Weight (lbs): N/A; Drop (in): N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Brown to tan fine SAND, trace silt, trace fine subangular gravel, rootlets, construction debris (moist) [FILL]	0					0.0	Pre-clear exempt by PIC
				M-1A				0.0	SB35_0-2
			1					0.0	
		Dark brown fine SAND, trace clay, some fine subangular gravel, rootlets, woody vegetation, coal (moist) [FILL]						0.0	
			2		Macrocore	43/48		0.0	
				M-1B				0.0	
			3					0.0	
								0.0	
			4					0.0	
		Dark brown fine SAND, some clay, some fine subangular to subrounded gravel, rootlets, woody vegetation, coal, wood (moist) [FILL]						0.0	
				M-2A				0.0	SB35_5-7
			5					0.0	
		Dark brown fine SAND, some clay, some fine gravel, rootlets, woody vegetation, coal, wood (wet) [FILL]	6		Macrocore	34/48		0.0	
								0.0	
				M-2B					
			7						
	N/A		8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched with surrounding grass to restore to original settings.
		End of Boring at 8.0ft.	9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

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Log of Boring **SB36** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started: 3/13/2025	Date Finished: 3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth: 8.0 ft	Rock Depth: Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples: Disturbed 2	Undisturbed 0; Core 0
Casing Diameter (in): N/A	Casing Depth (ft): N/A	Water Level (ft.): First ▽ 7.0	Completion ▼ N/A; 24 HR. ▽ N/A
Casing Hammer: N/A	Weight (lbs): N/A; Drop (in): N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer: N/A	Weight (lbs): N/A; Drop (in): N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Dark brown fine SAND, trace clay, trace fine subangular gravel, glass, construction debris, rootlets (moist) [FILL]	0					0.0	Pre-clear exempt by PIC
								0.0	SB36_0-2
			1					0.0	
								0.0	
			2	M-1	Macrocore	33/48		0.0	
								0.0	
			3						
			4					0.0	
		Dark brown fine SAND, trace clay, trace fine gravel, glass, construction debris, rootlets (wet) [FILL]		M-2A				0.0	
		Dark brown fine SAND, trace clay, trace fine subangular gravel, glass, construction debris, rootlets (moist) [FILL]	5					0.0	SB36_5-7
								0.0	
			6	M-2B	Macrocore	40/48		0.0	
								0.0	
			7 ▽					0.0	
	N/A	End of Boring at 8.0ft.	8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched to restore to original settings.
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

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Log of Boring **SB37**

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 5.2	Completion ▼ N/A	24 HR. ▼ N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	ASPHALT	0	PD-1 A	DIST	0/6		0.0	SB37_0-2
				PD-1 B				0.0	SB37_0-2
			1					0.0	
			2	M-1	Macrocore	38/42		0.0	
								0.0	
			3					0.0	
								0.0	
			4					0.0	
		Brown to dark brown fine SAND, some clay, trace fine subangular gravel, construction debris, wood (moist) [FILL]		M-2A				0.0	
			5 ▽					0.0	SB37_5-7
		Brown to dark brown fine SAND, some clay, trace fine gravel, construction debris, wood (wet) [FILL]						0.0	
			6	M-2B	Macrocore	43/48		0.0	
								0.0	
			7					0.0	
								0.0	
	N/A	End of Boring at 8.0ft.	8						Bottom of boring at 8ft bgs. Set 1-inch temporary monitoring well TMW37 with 10 feet of 0.020-slot screen PVC from 5' to 15' bgs. Following sampling, TMW37 was removed and borehole backfilled with clean soil cuttings and/or clean No. 2 sand to surface grade, and patched with surrounding grass to restore to original settings.
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

LANGAN

Log of Boring **SB38/TMW38** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started: 3/13/2025	Date Finished: 3/10/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth: 8.0 ft	Rock Depth: Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples: Disturbed 2	Undisturbed 0; Core 0
Casing Diameter (in): N/A	Casing Depth (ft): N/A	Water Level (ft.): First N/A	Completion N/A; 24 HR. N/A
Casing Hammer: N/A	Weight (lbs): N/A; Drop (in): N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer: N/A	Weight (lbs): N/A; Drop (in): N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Brown fine SAND, trace clay, trace fine subangular gravel, construction debris, fibrous vegetation, rootlets (moist) [FILL]	M-1	Macrocore	37/48		0.0	Pre-clear exempt by PIC
							0.0	SB38_0-2
							0.0	
							0.0	
							0.0	
							0.0	
							0.0	
		Brown fine SAND, trace clay, trace fine subangular gravel, construction debris, fibrous vegetation, rootlets, glass, coal (moist) [FILL]	M-2	Macrocore	45/48		0.0	
							0.0	
							0.0	SB38_5-7
							0.0	
							0.0	
							0.0	
							0.0	
							0.0	
	N/A	End of Boring at 8.0ft.						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched to restore to original settings.

Depth Scale: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

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Log of Boring **SB39**

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started / Date Finished	3/13/2025 / 3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth / Rock Depth	8.0 ft / Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples: Disturbed 2; Undisturbed 0; Core 0	
Casing Diameter (in) N/A; Casing Depth (ft) N/A		Water Level (ft.): First ▽ 6.5; Completion ▼ N/A; 24 HR. ▼ N/A	
Casing Hammer N/A; Weight (lbs) N/A; Drop (in) N/A		Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer N/A; Weight (lbs) N/A; Drop (in) N/A		Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Brown fine SAND, trace clay, some fine subangular gravel, construction debris, wood, glass, metal (moist) [FILL]	M-1	Macrocore	35/48		0.0, 0.0, 0.0, 0.0, 0.0, 0.0	Pre-clear exempt by PIC; SB39_0-2
		Brown fine SAND, trace clay, some fine subangular gravel, construction debris, wood, glass, metal (moist) [FILL]	M-2A	Macrocore	36/48		0.0, 0.0, 0.0, 0.0, 0.0	SB39_5-7
		Brown fine SAND, trace clay, some fine gravel, construction debris, wood, glass, metal (wet) [FILL]	M-2B				0.0, 0.0	
	N/A	End of Boring at 8.0ft.						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched to restore to original settings.

Depth Scale: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

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Log of Boring **SB40** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 6.0	Completion ▼	N/A
		24 HR. ▼	N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Brown fine SAND, trace clay,, some fine subangular gravel, rootlets, construction debris, wood (moist) [FILL]	0					0.0	Pre-clear exempt by PIC
								0.0	SB40_0-2
			1					0.0	
								0.0	
			2	M-1	Macrocore	36/48		0.0	
								0.0	
			3					0.0	
		Brown to black fine SAND, trace clay, some fine subangular gravel, rootlets, construction debris, wood (moist) [FILL]	4					0.0	
								0.0	
			5	M-2A				0.0	SB40_5-7
								0.0	
		Brown to black fine SAND, trace clay, some fine gravel, rootlets, construction debris, wood (wet) [FILL]	6 ▽		Macrocore	29/48		0.0	
			7	M-2B					
	N/A	End of Boring at 8.0ft.	8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched to restore to original settings.
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

LANGAN

Log of Boring **SB41**

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/13/2025
		Date Finished	3/13/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A
Water Level (ft.)	First ▽ 4.5	Completion ▼	N/A
	24 HR. ▼		N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Brown fine SAND, trace clay, some fine subangular gravel, construction debris, metal, wood (moist) [FILL]	0					0.0	Pre-clear exempt by PIC
								0.0	SB41_0-2
			1					0.0	
								0.0	
			2	M-1	Macrocore	33/48		0.0	
								0.0	
			3						
		Brown fine SAND, some clay, trace fine subangular to subrounded gravel, construction debris, metal, wood (moist) [FILL] ▽	4	M-2A				0.0	
								0.0	
		Brown fine SAND, some clay, trace fine subangular to subrounded gravel, construction debris, metal, wood (wet) [FILL]	5					0.0	SB41_5-7
								0.0	
			6	M-2B	Macrocore	38/48		0.0	
								0.0	
			7					0.0	
	N/A	End of Boring at 8.0ft.	8						Bottom of boring at 8ft bgs. Borehole backfilled with clean soil cuttings and/or clean No.2 sand to surface grade, and patched to restore to original settings.
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

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Log of Boring **SB42/TMW42** Sheet 1 of 1

Project	Proposed Bally's Casino - Ring Road at Ferry Point Park	Project No.	170773001
Location	Bronx, New York	Elevation and Datum	N/A
Drilling Company	Lakewood Environmental Services Corp.	Date Started	3/12/2025
		Date Finished	3/12/2025
Drilling Equipment	PowerProbe 9100P	Completion Depth	8.0 ft
		Rock Depth	Not Encountered
Size and Type of Bit	2.0-inch ID/2.25-inch OD	Number of Samples	Disturbed 2; Undisturbed 0; Core 0
Casing Diameter (in)	N/A; Casing Depth (ft) N/A	Water Level (ft.)	First N/A; Completion N/A; 24 HR. N/A
Casing Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Drilling Foreman	Adam Hutchinson
Sampler	4-foot macrocore with acetate liner		
Sampler Hammer	N/A; Weight (lbs) N/A; Drop (in) N/A	Field Engineer	Savannah Walters

Material Symbol	Elev. (ft)	Sample Description	Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
	N/A	Dark brown fine SAND, trace clay, some fine subangular gravel, concrete, rootlets, construction debris, wood (moist) [FILL]	M-1	Macrocore	36/48		0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	Pre-clear exempt by PIC; SB42_0-2
		Dark brown fine SAND, trace clay, some fine subangular to subrounded gravel, concrete, rootlets, construction debris, wood, glass (moist) [FILL]	M-2A	Macrocore	32/48		0.0, 0.0, 0.0, 0.0, 0.0, 0.0	SB42_5-7
	N/A	Grayish black CLAY, trace fine sand, fibrous vegetation (wet) [CL]	M-2B					
	N/A	End of Boring at 8.0ft.						Bottom of boring at 8ft bgs. Set 1-inch temporary monitoring well TMW42 with 10 feet of 0.020-slot screen PVC from 5' to 15' bgs. Following sampling, TMW42 was removed and borehole backfilled with clean soil cuttings and/or clean No. 2 sand to surface grade, and patched with surrounding grass to restore to original settings.

Depth Scale: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

Appendix D

Well Construction and Groundwater Sampling Logs

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. TMW01

PROJECT	PROJECT NO.	
Proposed Bally's Casino - Ring Road at Ferry Point Park	170773001	
LOCATION	**ELEVATION AND DATUM**	
Bronx, NY	el. N/A NAVD88	
DRILLING AGENCY	**DATE STARTED**	**DATE FINISHED**
Lakewood Environmental Services Corp.	2/27/2025	2/27/2025
DRILLING EQUIPMENT	**DRILLER**	
PowerProbe 9100P	Adam Hutchinson	
SIZE AND TYPE OF BIT	**INSPECTOR**	
2-inch Direct Push	Savannah Walters	
BOREHOLE DIAMETER	**TYPE OF WELL (OVERBURDEN / BEDROCK)**	
2-inch	Overburden	

RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	1-inch	No. 2 Sand	
TYPE OF SCREEN	**DIAMETER**	**TYPE OF WELL PACK**	**TYPE OF SEAL MATERIAL**
PVC No. 20 Slot	1-inch	No. 2 Sand	N/A

METHOD OF INSTALLATION

PowerProbe® 9100P Drill Rig was used to advance the boring to approximately 12 feet bgs. A one-inch (1") PVC temporary monitoring well was installed which consisted of 10 feet of 20 slot (0.020-inch) well screen, and a solid 1" PVC riser. Well screen was installed from approximately 2 to 12 feet bgs with riser from 2 feet bgs to surface. No. 2 clean sand was used to fill the annulus around the screen to grade surface. The temporary monitoring well was removed after sampling. The borehole was backfilled with No. 2 sand and soil cuttings to surface grade, and restored to it's original surroudings.

WELL DEVELOPMENT DATA

SURGE BLOCK DIAMETER	N/A	TYPE PUMP	N/A	DEVELOPMENT CONFIRMATION
DRILLER OR LANGAN	Langan	MAX PUMP RATE	N/A	N/A
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	N/A	

TOP OF CASING	ELEVATION	DEPTH (ft)
	N/A	0.25
TOP OF SEAL	**ELEVATION**	**DEPTH (ft)**
	N/A	N/A
TOP OF FILTER	**ELEVATION**	**DEPTH (ft)**
	N/A	0
TOP OF SCREEN	**ELEVATION**	**DEPTH (ft)**
	N/A	2.0
BOTTOM OF BORING	**ELEVATION**	**DEPTH (ft)**
	N/A	12
SCREEN LENGTH		
		10 feet
SLOT SIZE		
		No. 20 Slot; 0.020 Inches

WELL DETAILS

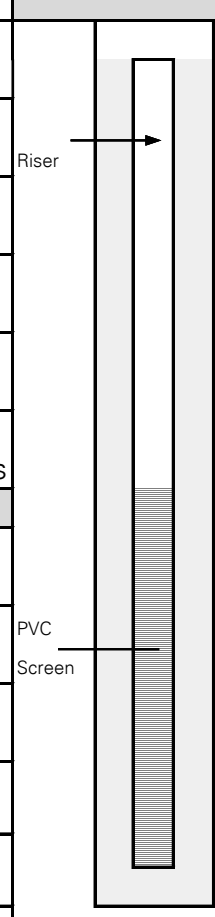

SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
	0.25
	2
	12

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER
N/A	2/27/2025	5.5 ft
N/A		
N/A		
N/A		
N/A		
N/A		

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WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. TMW07

PROJECT	PROJECT NO.	
Proposed Bally's Casino - Ring Road at Ferry Point Park	170773001	
LOCATION	**ELEVATION AND DATUM**	
Bronx, NY	el. N/A NAVD88	
DRILLING AGENCY	**DATE STARTED**	**DATE FINISHED**
Lakewood Environmental Services Corp.	2/28/2025	2/28/2025
DRILLING EQUIPMENT	**DRILLER**	
PowerProbe 9100P	Adam Hutchinson	
SIZE AND TYPE OF BIT	**INSPECTOR**	
2-inch Direct Push	Savannah Walters	
BOREHOLE DIAMETER	**TYPE OF WELL (OVERBURDEN / BEDROCK)**	
2-inch	Overburden	

RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	1-inch	No. 2 Sand	
TYPE OF SCREEN	**DIAMETER**	**TYPE OF WELL PACK**	**TYPE OF SEAL MATERIAL**
PVC No. 20 Slot	1-inch	No. 2 Sand	N/A

METHOD OF INSTALLATION

PowerProbe® 9100P Drill Rig was used to advance the boring to approximately 12 feet bgs. A one-inch (1") PVC temporary monitoring well was installed which consisted of 10 feet of 20 slot (0.020-inch) well screen, and a solid 1" PVC riser. Well screen was installed from approximately 2 to 12 feet bgs with riser from 2 feet bgs to surface. No. 2 clean sand was used to fill the annulus around the screen to grade surface. The temporary monitoring well was removed after sampling. The borehole was backfilled with No. 2 sand and soil cuttings to surface grade, and restored to it's original surroudings.

WELL DEVELOPMENT DATA

SURGE BLOCK DIAMETER	N/A	TYPE PUMP	N/A	DEVELOPMENT CONFIRMATION
DRILLER OR LANGAN	Langan	MAX PUMP RATE	N/A	N/A
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	N/A	

	ELEVATION	DEPTH (ft)
TOP OF CASING	N/A	0.5
TOP OF SEAL	N/A	N/A
TOP OF FILTER	N/A	0
TOP OF SCREEN	N/A	2.0
BOTTOM OF BORING	N/A	12
SCREEN LENGTH		10 feet
SLOT SIZE		No. 20 Slot; 0.020 Inches

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER
N/A	2/28/2025	3.5 ft
N/A		
N/A		
N/A		
N/A		
N/A		

WELL DETAILS

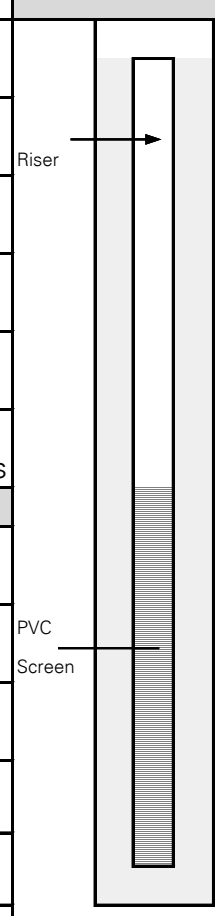

SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
	0.50
	2
	12

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WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. TMW10

PROJECT	PROJECT NO.	
Proposed Bally's Casino - Ring Road at Ferry Point Park	170773001	
LOCATION	**ELEVATION AND DATUM**	
Bronx, NY	el. N/A NAVD88	
DRILLING AGENCY	**DATE STARTED**	**DATE FINISHED**
Lakewood Environmental Services Corp.	2/28/2025	2/28/2025
DRILLING EQUIPMENT	**DRILLER**	
PowerProbe 9100P	Adam Hutchinson	
SIZE AND TYPE OF BIT	**INSPECTOR**	
2-inch Direct Push	Savannah Walters	
BOREHOLE DIAMETER	**TYPE OF WELL (OVERBURDEN / BEDROCK)**	
2-inch	Overburden	

RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	1-inch	No. 2 Sand	
TYPE OF SCREEN	**DIAMETER**	**TYPE OF WELL PACK**	**TYPE OF SEAL MATERIAL**
PVC No. 20 Slot	1-inch	No. 2 Sand	N/A

METHOD OF INSTALLATION

PowerProbe® 9100P Drill Rig was used to advance the boring to approximately 12 feet bgs. A one-inch (1") PVC temporary monitoring well was installed which consisted of 10 feet of 20 slot (0.020-inch) well screen, and a solid 1" PVC riser. Well screen was installed from approximately 2 to 12 feet bgs with riser from 2 feet bgs to surface. No. 2 clean sand was used to fill the annulus around the screen to grade surface. The temporary monitoring well was removed after sampling. The borehole was backfilled with No. 2 sand and soil cuttings to surface grade, and restored to it's original surroudings.

WELL DEVELOPMENT DATA

SURGE BLOCK DIAMETER	N/A	TYPE PUMP	N/A	DEVELOPMENT CONFIRMATION
DRILLER OR LANGAN	Langan	MAX PUMP RATE	N/A	N/A
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	N/A	

	ELEVATION	DEPTH (ft)
TOP OF CASING	N/A	0.5
TOP OF SEAL	N/A	N/A
TOP OF FILTER	N/A	0
TOP OF SCREEN	N/A	2.0
BOTTOM OF BORING	N/A	12
SCREEN LENGTH		10 feet
SLOT SIZE		No. 20 Slot; 0.020 Inches

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER
N/A	2/28/2025	4.5 ft
N/A		
N/A		
N/A		
N/A		
N/A		

WELL DETAILS

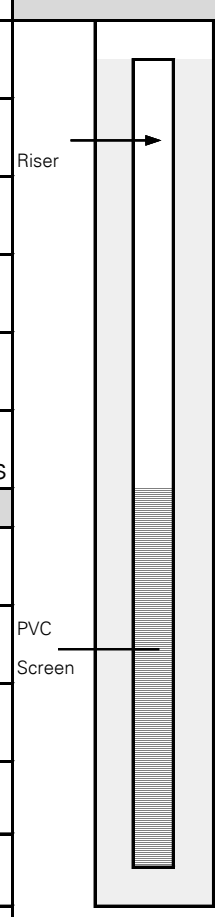

SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
	0.50
	2
	12

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WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. TMW15

PROJECT	PROJECT NO.	
Proposed Bally's Casino - Ring Road at Ferry Point Park	170773001	
LOCATION	**ELEVATION AND DATUM**	
Bronx, NY	el. N/A NAVD88	
DRILLING AGENCY	**DATE STARTED**	**DATE FINISHED**
Lakewood Environmental Services Corp.	3/3/2025	3/3/2025
DRILLING EQUIPMENT	**DRILLER**	
PowerProbe 9100P	Adam Hutchinson	
SIZE AND TYPE OF BIT	**INSPECTOR**	
2-inch Direct Push	Savannah Walters	
BOREHOLE DIAMETER	**TYPE OF WELL (OVERBURDEN / BEDROCK)**	
2-inch	Overburden	

RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	1-inch	No. 2 Sand	
TYPE OF SCREEN	**DIAMETER**	**TYPE OF WELL PACK**	**TYPE OF SEAL MATERIAL**
PVC No. 20 Slot	1-inch	No. 2 Sand	N/A

METHOD OF INSTALLATION

PowerProbe® 9100P Drill Rig was used to advance the boring to approximately 12 feet bgs. A one-inch (1") PVC temporary monitoring well was installed which consisted of 10 feet of 20 slot (0.020-inch) well screen, and a solid 1" PVC riser. Well screen was installed from approximately 2 to 12 feet bgs with riser from 2 feet bgs to surface. No. 2 clean sand was used to fill the annulus around the screen to grade surface. The temporary monitoring well was removed after sampling. The borehole was backfilled with No. 2 sand and soil cuttings to surface grade, and restored to it's original surroudings.

WELL DEVELOPMENT DATA

SURGE BLOCK DIAMETER	N/A	TYPE PUMP	N/A	DEVELOPMENT CONFIRMATION
DRILLER OR LANGAN	Langan	MAX PUMP RATE	N/A	N/A
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	N/A	

	ELEVATION	DEPTH (ft)
TOP OF CASING	N/A	0.25
TOP OF SEAL	N/A	N/A
TOP OF FILTER	N/A	0
TOP OF SCREEN	N/A	2.0
BOTTOM OF BORING	N/A	12
SCREEN LENGTH		10 feet
SLOT SIZE		No. 20 Slot; 0.020 Inches

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER
N/A	2/27/2025	3.8 ft
N/A		
N/A		
N/A		
N/A		
N/A		

WELL DETAILS

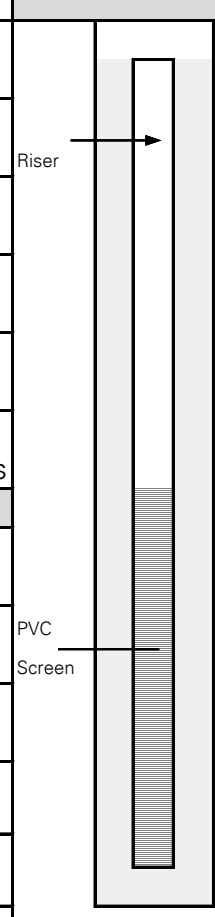

SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
	0.25
	2
	12

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WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. TMW20

PROJECT		PROJECT NO.	
Proposed Bally's Casino - Ring Road at Ferry Point Park		170773001	
LOCATION		**ELEVATION AND DATUM**	
Bronx, NY		el. N/A NAVD88	
DRILLING AGENCY		**DATE STARTED**	**DATE FINISHED**
Lakewood Environmental Services Corp.		3/4/2025	3/4/2025
DRILLING EQUIPMENT		**DRILLER**	
PowerProbe 9100P		Adam Hutchinson	
SIZE AND TYPE OF BIT		**INSPECTOR**	
2-inch Direct Push		Savannah Walters	
BOREHOLE DIAMETER		**TYPE OF WELL (OVERBURDEN / BEDROCK)**	
2-inch		Overburden	
RISER MATERIAL	**DIAMETER**	**TYPE OF BACKFILL MATERIAL**	
PVC	1-inch	No. 2 Sand	
TYPE OF SCREEN	**DIAMETER**	**TYPE OF WELL PACK**	**TYPE OF SEAL MATERIAL**
PVC No. 20 Slot	1-inch	No. 2 Sand	N/A

METHOD OF INSTALLATION

PowerProbe® 9100P Drill Rig was used to advance the boring to approximately 12 feet bgs. A one-inch (1") PVC temporary monitoring well was installed which consisted of 10 feet of 20 slot (0.020-inch) well screen, and a solid 1" PVC riser. Well screen was installed from approximately 2 to 12 feet bgs with riser from 2 feet bgs to surface. No. 2 clean sand was used to fill the annulus around the screen to grade surface. The temporary monitoring well was removed after sampling. The borehole was backfilled with No. 2 sand and soil cuttings to surface grade, and restored to it's original surroudings.

WELL DEVELOPMENT DATA

SURGE BLOCK DIAMETER	N/A	**TYPE PUMP**	N/A	**DEVELOPMENT CONFIRMATION**
DRILLER OR LANGAN	Langan	**MAX PUMP RATE**	N/A	N/A
NUMBER OF SURGE CYCLES	N/A	**TOTAL VOLUME**	N/A	

	ELEVATION	DEPTH (ft)
TOP OF CASING	N/A	0.25
TOP OF SEAL	N/A	N/A
TOP OF FILTER	N/A	0
TOP OF SCREEN	N/A	2.0
BOTTOM OF BORING	N/A	12
SCREEN LENGTH		10 feet
SLOT SIZE		No. 20 Slot; 0.020 Inches

WELL DETAILS

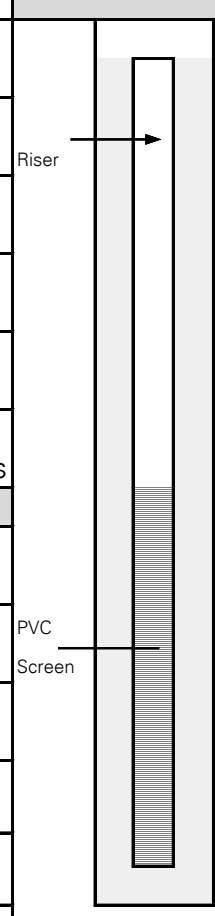

SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
	0.25
	2
	12

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER
N/A	2/27/2025	5.5 ft
N/A		
N/A		
N/A		
N/A		
N/A		

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WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. TMW27

PROJECT		PROJECT NO.	
Proposed Bally's Casino - Ring Road at Ferry Point Park		170773001	
LOCATION		**ELEVATION AND DATUM**	
Bronx, NY		el. N/A NAVD88	
DRILLING AGENCY		**DATE STARTED**	**DATE FINISHED**
Lakewood Environmental Services Corp.		3/7/2025	3/7/2025
DRILLING EQUIPMENT		**DRILLER**	
PowerProbe 9100P		Adam Hutchinson	
SIZE AND TYPE OF BIT		**INSPECTOR**	
2-inch Direct Push		Savannah Walters	
BOREHOLE DIAMETER		**TYPE OF WELL (OVERBURDEN / BEDROCK)**	
2-inch		Overburden	
RISER MATERIAL	**DIAMETER**	**TYPE OF BACKFILL MATERIAL**	
PVC	1-inch	No. 2 Sand	
TYPE OF SCREEN	**DIAMETER**	**TYPE OF WELL PACK**	**TYPE OF SEAL MATERIAL**
PVC No. 20 Slot	1-inch	No. 2 Sand	N/A

METHOD OF INSTALLATION

PowerProbe® 9100P Drill Rig was used to advance the boring to approximately 16 feet bgs. A one-inch (1") PVC temporary monitoring well was installed which consisted of 10 feet of 20 slot (0.020-inch) well screen, and a solid 1" PVC riser. Well screen was installed from approximately 6 to 16 feet bgs with riser from 2 feet bgs to surface. No. 2 clean sand was used to fill the annulus around the screen to grade surface. The temporary monitoring well was removed after sampling. The borehole was backfilled with No. 2 sand and soil cuttings to surface grade, and restored to it's original surroudings.

WELL DEVELOPMENT DATA

SURGE BLOCK DIAMETER	N/A	**TYPE PUMP**	N/A	**DEVELOPMENT CONFIRMATION**
DRILLER OR LANGAN	Langan	**MAX PUMP RATE**	N/A	N/A
NUMBER OF SURGE CYCLES	N/A	**TOTAL VOLUME**	N/A	

	ELEVATION	DEPTH (ft)
TOP OF CASING	N/A	0.25
TOP OF SEAL	N/A	N/A
TOP OF FILTER	N/A	0
TOP OF SCREEN	N/A	6.0
BOTTOM OF BORING	N/A	16
SCREEN LENGTH		10 feet
SLOT SIZE		No. 20 Slot; 0.020 Inches

WELL DETAILS

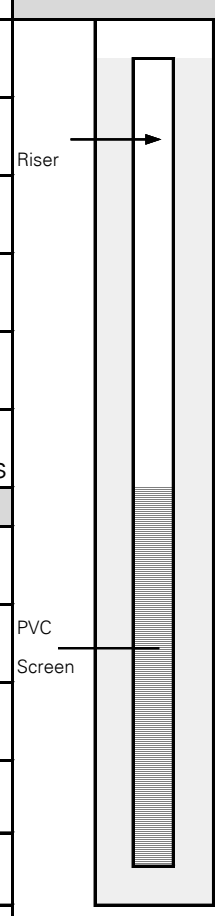

SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
	0.25
	6
	16

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER
N/A	3/7/2025	4.8 ft
N/A		
N/A		
N/A		
N/A		
N/A		

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WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. TMW31

PROJECT	PROJECT NO.	
Proposed Bally's Casino - Ring Road at Ferry Point Park	170773001	
LOCATION	**ELEVATION AND DATUM**	
Bronx, NY	el. N/A NAVD88	
DRILLING AGENCY	**DATE STARTED**	**DATE FINISHED**
Lakewood Environmental Services Corp.	3/7/2025	3/7/2025
DRILLING EQUIPMENT	**DRILLER**	
PowerProbe 9100P	Adam Hutchinson	
SIZE AND TYPE OF BIT	**INSPECTOR**	
2-inch Direct Push	Savannah Walters	
BOREHOLE DIAMETER	**TYPE OF WELL (OVERBURDEN / BEDROCK)**	
2-inch	Overburden	

RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	1-inch	No. 2 Sand	
TYPE OF SCREEN	**DIAMETER**	**TYPE OF WELL PACK**	**TYPE OF SEAL MATERIAL**
PVC No. 20 Slot	1-inch	No. 2 Sand	N/A

METHOD OF INSTALLATION

PowerProbe® 9100P Drill Rig was used to advance the boring to approximately 15 feet bgs. A one-inch (1") PVC temporary monitoring well was installed which consisted of 10 feet of 20 slot (0.020-inch) well screen, and a solid 1" PVC riser. Well screen was installed from approximately 5 to 15 feet bgs with riser from 2 feet bgs to surface. No. 2 clean sand was used to fill the annulus around the screen to grade surface. The temporary monitoring well was removed after sampling. The borehole was backfilled with No. 2 sand and soil cuttings to surface grade, and restored to it's original surroudings.

WELL DEVELOPMENT DATA

SURGE BLOCK DIAMETER	N/A	TYPE PUMP	N/A	DEVELOPMENT CONFIRMATION
DRILLER OR LANGAN	Langan	MAX PUMP RATE	N/A	N/A
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	N/A	

	ELEVATION	DEPTH (ft)
TOP OF CASING	N/A	0.25
TOP OF SEAL	N/A	N/A
TOP OF FILTER	N/A	0
TOP OF SCREEN	N/A	5.0
BOTTOM OF BORING	N/A	15
SCREEN LENGTH		10 feet
SLOT SIZE		No. 20 Slot; 0.020 Inches

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER
N/A	3/7/2025	5.2 ft
N/A		
N/A		
N/A		
N/A		
N/A		

WELL DETAILS

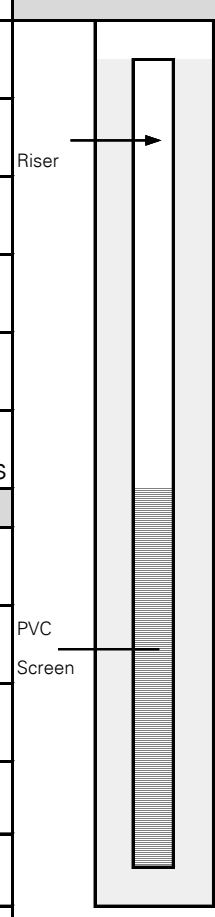

SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
	0.25
	5
	15

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WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. TMW34

PROJECT		PROJECT NO.	
Proposed Bally's Casino - Ring Road at Ferry Point Park		170773001	
LOCATION		ELEVATION AND DATUM	
Bronx, NY		el. N/A NAVD88	
DRILLING AGENCY		DATE STARTED	DATE FINISHED
Lakewood Environmental Services Corp.		3/10/2025	3/10/2025
DRILLING EQUIPMENT		DRILLER	
PowerProbe 9100P		Adam Hutchinson	
SIZE AND TYPE OF BIT		INSPECTOR	
2-inch Direct Push		Savannah Walters	
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDROCK)	
2-inch		Overburden	
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	1-inch	No. 2 Sand	
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL
PVC No. 20 Slot	1-inch	No. 2 Sand	N/A

METHOD OF INSTALLATION

PowerProbe® 9100P Drill Rig was used to advance the boring to approximately 15 feet bgs. A one-inch (1") PVC temporary monitoring well was installed which consisted of 10 feet of 20 slot (0.020-inch) well screen, and a solid 1" PVC riser. Well screen was installed from approximately 5 to 15 feet bgs with riser from 2 feet bgs to surface. No. 2 clean sand was used to fill the annulus around the screen to grade surface. The temporary monitoring well was removed after sampling. The borehole was backfilled with No. 2 sand and soil cuttings to surface grade, and restored to it's original surroudings.

WELL DEVELOPMENT DATA

SURGE BLOCK DIAMETER	N/A	TYPE PUMP	N/A	DEVELOPMENT CONFIRMATION
DRILLER OR LANGAN	Langan	MAX PUMP RATE	N/A	N/A
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	N/A	

	ELEVATION	DEPTH (ft)
TOP OF CASING	N/A	0.25
TOP OF SEAL	N/A	N/A
TOP OF FILTER	N/A	0
TOP OF SCREEN	N/A	5.0
BOTTOM OF BORING	N/A	15
SCREEN LENGTH		10 feet
SLOT SIZE		No. 20 Slot; 0.020 Inches

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER
N/A	3/10/2025	6.7 ft
N/A		
N/A		
N/A		
N/A		
N/A		

WELL DETAILS

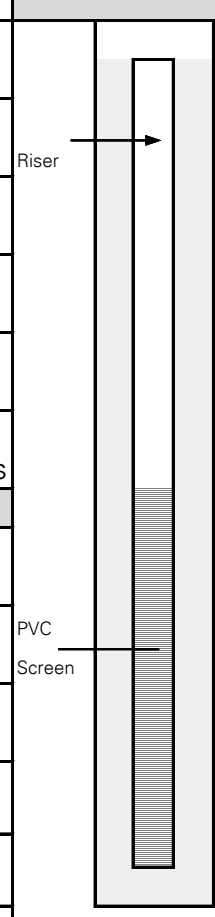

SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
	0.25
	5
	15

LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

368 Ninth Avenue, 8th Floor, New York

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. TMW38

PROJECT		PROJECT NO.	
Proposed Bally's Casino - Ring Road at Ferry Point Park		170773001	
LOCATION		ELEVATION AND DATUM	
Bronx, NY		el. N/A NAVD88	
DRILLING AGENCY		DATE STARTED	DATE FINISHED
Lakewood Environmental Services Corp.		3/10/2025	3/10/2025
DRILLING EQUIPMENT		DRILLER	
Geoprobe 6610DT		Adam Hutchinson	
SIZE AND TYPE OF BIT		INSPECTOR	
2-inch Direct Push		Savannah Walters	
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDROCK)	
2-inch		Overburden	
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	1-inch	No. 2 Sand	
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL
PVC No. 20 Slot	1-inch	No. 2 Sand	N/A

METHOD OF INSTALLATION

PowerProbe® 9100P Drill Rig was used to advance the boring to approximately 15 feet bgs. A one-inch (1") PVC temporary monitoring well was installed which consisted of 10 feet of 20 slot (0.020-inch) well screen, and a solid 1" PVC riser. Well screen was installed from approximately 5 to 15 feet bgs with riser from 2 feet bgs to surface. No. 2 clean sand was used to fill the annulus around the screen to grade surface. The temporary monitoring well was removed after sampling. The borehole was backfilled with No. 2 sand and soil cuttings to surface grade, and restored to it's original surroudings.

WELL DEVELOPMENT DATA

				DEVELOPMENT CONFIRMATION
SURGE BLOCK DIAMETER	N/A	TYPE PUMP	N/A	N/A
DRILLER OR LANGAN	Langan	MAX PUMP RATE	N/A	
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	N/A	

	ELEVATION	DEPTH (ft)
TOP OF CASING	N/A	0.25
TOP OF SEAL	N/A	N/A
TOP OF FILTER	N/A	0
TOP OF SCREEN	N/A	5.0
BOTTOM OF BORING	N/A	15
SCREEN LENGTH		10 feet
SLOT SIZE		No. 20 Slot; 0.020 Inches

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER
N/A	3/10/2025	6.4 ft
N/A		
N/A		
N/A		
N/A		
N/A		

WELL DETAILS

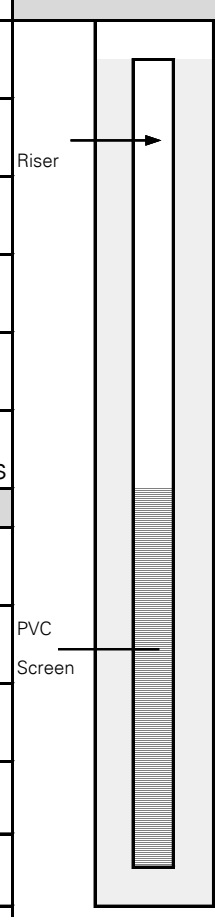

SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
	0.25
	5
	15

LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

368 Ninth Avenue, 8th Floor, New York

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No. TMW42

PROJECT	PROJECT NO.	
Proposed Bally's Casino - Ring Road at Ferry Point Park	170773001	
LOCATION	**ELEVATION AND DATUM**	
Bronx, NY	el. N/A NAVD88	
DRILLING AGENCY	**DATE STARTED**	**DATE FINISHED**
Lakewood Environmental Services Corp.	3/11/2025	3/11/2025
DRILLING EQUIPMENT	**DRILLER**	
Geoprobe 6610DT	Adam Hutchinson	
SIZE AND TYPE OF BIT	**INSPECTOR**	
2-inch Direct Push	Savannah Walters	
BOREHOLE DIAMETER	**TYPE OF WELL (OVERBURDEN / BEDROCK)**	
2-inch	Overburden	

RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	1-inch	No. 2 Sand	
TYPE OF SCREEN	**DIAMETER**	**TYPE OF WELL PACK**	**TYPE OF SEAL MATERIAL**
PVC No. 20 Slot	1-inch	No. 2 Sand	N/A

METHOD OF INSTALLATION

PowerProbe® 9100P Drill Rig was used to advance the boring to approximately 15 feet bgs. A one-inch (1") PVC temporary monitoring well was installed which consisted of 10 feet of 20 slot (0.020-inch) well screen, and a solid 1" PVC riser. Well screen was installed from approximately 5 to 15 feet bgs with riser from 2 feet bgs to surface. No. 2 clean sand was used to fill the annulus around the screen to grade surface. The temporary monitoring well was removed after sampling. The borehole was backfilled with No. 2 sand and soil cuttings to surface grade, and restored to it's original surroudings.

WELL DEVELOPMENT DATA

SURGE BLOCK DIAMETER	N/A	TYPE PUMP	N/A	DEVELOPMENT CONFIRMATION
DRILLER OR LANGAN	Langan	MAX PUMP RATE	N/A	N/A
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	N/A	

	ELEVATION	DEPTH (ft)
TOP OF CASING	N/A	0.25
TOP OF SEAL	N/A	N/A
TOP OF FILTER	N/A	0
TOP OF SCREEN	N/A	5.0
BOTTOM OF BORING	N/A	15
SCREEN LENGTH		10 feet
SLOT SIZE		No. 20 Slot; 0.020 Inches

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER
N/A	3/11/2025	4.3 ft
N/A		
N/A		
N/A		
N/A		
N/A		

WELL DETAILS

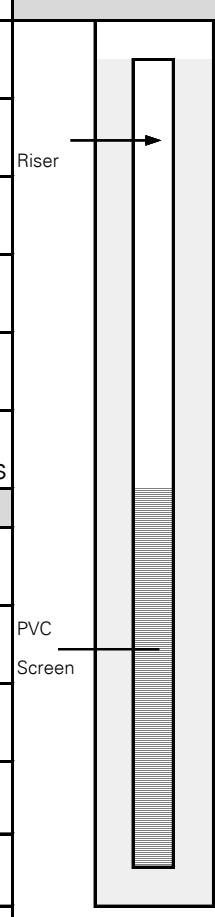

SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
	0.25
	5
	15

LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

368 Ninth Avenue, 8th Floor, New York

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	Proposed Bally's Casino - Ring Road at Ferry Point Park	**Well No:**	TMW01	**Water Quality Device Model:**	Horiba U52-2	**Weather:**	Rain, 41-55 ºF	**Sample(s):**	TMW01_022725
Project Number:	170773001	**Well Depth:**	12.0	**Pine Number:**	51863	**Background PID (ppm):**	0.0		
Site Location:	Bronx, NY	**Well Diameter:**	1 inch	**Pump Make and Model:**	Peristaltic Pump	**PID Beneath Inner Cap (ppm):**	0.0		
Sampling Personnel:	Savannah Walters	**Well Screen Interval:**	2-12 feet	**Pine Number:**	210306	**Pump Intake Depth:**	9.00	**Sample Date:**	2/27/2025
				Tubing Diameter:	1/4" ID X 3/8" OD	**Depth to Water Before Purge:**	5.80	**Time:**	13:30

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
12:55	6.24	6.88	-64	6.47	1000.0	0.00	NA	NA	0.25	slightly turbid, no odor	**N/A**
13:00	6.23	6.92	-72	7.04	1000.0	0.00	NA	0.05	0.50		**N/A**
13:05	6.23	6.93	-73	7.13	1000.0	0.00	NA	0.05	0.75		**N**
13:10	6.22	6.93	-74	7.21	1000.0	0.00	NA	0.05	1.00	clear, no odor	**Y**

Notes:
1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	Proposed Bally's Casino - Ring Road at Ferry Point Park	**Well No:**	TMW07	**Water Quality Device Model:**	Horiba U52-2	**Weather:**	Sunny, 38-48 °F	**Sample(s):**	TMW07_022825
Project Number:	170773001	**Well Depth:**	12.0	**Pine Number:**	51863	**Background PID (ppm):**	0.0		
Site Location:	Bronx, NY	**Well Diameter:**	1 inch	**Pump Make and Model:**	Peristaltic Pump	**PID Beneath Inner Cap (ppm):**	0.0		
Sampling Personnel:	Savannah Walters	**Well Screen Interval:**	2-12 feet	**Pine Number:**	210306	**Pump Intake Depth:**	9.00	**Sample Date:**	2/28/2025
				Tubing Diameter:	1/4" ID X 3/8" OD	**Depth to Water Before Purge:**	3.50	**Time:**	14:40

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
13:50	6.57	7.16	-41	5.80	1000.0	3.27	NA	NA	0.50		**N/A**
13:55	6.04	7.16	-42	5.67	1000.0	0.91	NA	0.05	0.75		**N/A**
14:00	6.47	7.15	-39	5.77	1000.0	1.33	NA	0.05	1.00	slightly turbid, no odor	**N**
14:05	7.15	7.02	-42	7.52	1000.0	8.59	NA	0.05	1.25		**N**
14:10	7.10	7.11	-62	7.54	1000.0	0.62	NA	0.05	1.50		**N**
14:15	7.06	7.02	-59	7.23	1000.0	1.15	NA	0.05	1.75		**N**
14:20	6.12	7.11	-38	6.22	1000.0	3.71	NA	0.05	2.00	clear, no odor	**N**

Additional water quality parameters were not monitored due to poor recharge of the well. Groundwater sample was collected after groundwater was no longer turbid.

Notes:
1. Well depths and groundwater depths were measured in feet below the top of well casing
2. Well and tubing diameters are measured in inches
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	Proposed Bally's Casino - Ring Road at Ferry Point Park	**Well No:**	TMW10	**Water Quality Device Model:**	Horiba U52-2	**Weather:**	Sunny, 38-48 ºF	**Sample(s):**	TMW10_022825
Project Number:	170773001	**Well Depth:**	12.0	**Pine Number:**	51863	**Background PID (ppm):**	0.0		
Site Location:	Bronx, NY	**Well Diameter:**	1 inch	**Pump Make and Model:**	Peristaltic Pump	**PID Beneath Inner Cap (ppm):**	0.0		
Sampling Personnel:	Savannah Walters	**Well Screen Interval:**	2-12	**Pine Number:**	210306	**Pump Intake Depth:**	8.00	**Sample Date:**	2/28/2025
				Tubing Diameter:	1/4" ID X 3/8" OD	**Depth to Water Before Purge:**	4.50	**Time:**	10:21

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
9:40	7.51	6.93	-50	10.40	126.0	4.91	NA	NA	0.50		**N/A**
9:45	7.55	6.97	-59	10.70	28.6	0.33	NA	0.05	0.75		**N/A**
9:50	7.58	6.97	-65	10.60	10.5	0.00	NA	0.05	1.00	clear, no odor	**N**
9:55	7.55	6.97	-69	10.50	4.2	0.00	NA	0.05	1.25		**N**
10:00	7.65	6.97	-72	10.50	2.9	0.00	NA	0.05	1.50		**N**
10:05	7.77	6.97	-73	10.30	3.0	0.00	NA	0.05	1.75	clear, no odor	**Y**

Notes:
1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	Proposed Bally's Casino - Ring Road at Ferry Point Park	**Well No:**	TMW15	**Water Quality Device Model:**	Horiba U52-2	**Weather:**	Sunny, 38-48 °F	**Sample(s):**	TMW15_030325
Project Number:	170773001	**Well Depth:**	12.0	**Pine Number:**	51863	**Background PID (ppm):**	0.0		
Site Location:	Bronx, NY	**Well Diameter:**	1 inch	**Pump Make and Model:**	Peristaltic Pump	**PID Beneath Inner Cap (ppm):**	0.0		
Sampling Personnel:	Savannah Walters	**Well Screen Interval:**	2-12	**Pine Number:**	051387	**Pump Intake Depth:**	10.00	**Sample Date:**	3/3/2025
				Tubing Diameter:	3/8" ID X 1/2" OD	**Depth to Water Before Purge:**	3.80	**Time:**	12:51

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
12:05	7.15	7.48	-139	2.01	1000.0	3.51	NA	NA	1.90	slightly turbid, no odor	**N/A**
12:10	7.21	7.34	-101	2.71	1000.0	2.45	NA	0.07	2.25		**N/A**
12:15	7.40	7.30	-90	2.81	1000.0	2.37	NA	0.09	2.70		**N**
12:20	7.31	7.27	-81	2.79	1000.0	2.79	NA	0.06	3.00	**slightly turbid, no odor**	**Y**

Notes:
1. Well depths and groundwater depths were measured in feet below the top of well casing
2. Well and tubing diameters are measured in inches
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	Proposed Bally's Casino - Ring Road at Ferry Point Park	**Well No:**	TMW20	**Water Quality Device Model:**	Horiba U52-2	**Weather:**	Cloudy, 30-51 °F	**Sample(s):**	TMW20_030425 MS/MSD
Project Number:	170773001	**Well Depth:**	12.0	**Pine Number:**	51863	**Background PID (ppm):**	0.0		
Site Location:	Bronx, NY	**Well Diameter:**	1 inch	**Pump Make and Model:**	Peristaltic Pump	**PID Beneath Inner Cap (ppm):**	0.0		
Sampling Personnel:	Savannah Walters	**Well Screen Interval:**	2-12	**Pine Number:**	051387	**Pump Intake Depth:**	10.00	**Sample Date:**	3/4/2025
				Tubing Diameter:	3/8" ID X 1/2" OD	**Depth to Water Before Purge:**	5.50	**Time:**	11:05

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
10:20	6.77	6.99	-10	4.13	915.0	6.43	NA	NA	0.30	no odor, slight turbidity	**N/A**
10:25	6.88	7.07	-30	4.77	236.0	4.68	NA	0.02	0.40	clear, no odor	**N/A**
10:30	6.93	7.09	-32	4.65	187.0	6.64	NA	0.02	0.50		**N**
10:35	7.71	7.13	-31	4.80	180.0	8.18	NA	0.02	0.60	clear, no odor	**Y**

Notes:
1. Well depths and groundwater depths were measured in feet below the top of well casing
2. Well and tubing diameters are measured in inches
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	Proposed Bally's Casino - Ring Road at Ferry Point Park	**Well No:**	TMW27	**Water Quality Device Model:**	Horiba U52-2	**Weather:**	Cloudy, 33-47 ºF	**Sample(s):**	TMW27_030725
Project Number:	170773001	**Well Depth:**	16.0	**Pine Number:**	51863	**Background PID (ppm):**	0.0		
Site Location:	Bronx, NY	**Well Diameter:**	1 inch	**Pump Make and Model:**	Peristaltic Pump	**PID Beneath Inner Cap (ppm):**	0.0		
Sampling Personnel:	Savannah Walters	**Well Screen Interval:**	6-16	**Pine Number:**	051387	**Pump Intake Depth:**	14.00	**Sample Date:**	3/7/2025
				Tubing Diameter:	3/8" ID X 1/2" OD	**Depth to Water Before Purge:**	4.80	**Time:**	9:25

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
8:50	7.77	11.64	-36	0.78	1000.0	0.12	NA	NA	0.00		**N/A**
8:55	8.78	10.42	-19	0.74	1000.0	0.00	NA	0.08	0.40	turbid, no odor	**N/A**
9:00	8.88	9.80	-17	0.84	1000.0	0.00	NA	0.08	0.80		**N**
9:05	9.25	9.46	-171	0.91	1000.0	0.00	NA	0.08	1.20	slightly turbid, no odor	**N**
9:10	9.13	8.99	-219	0.93	1000.0	0.00	NA	0.08	1.60	turbid, no odor	**N**
9:15	9.43	9.14	-244	0.97	1000.0	0.00	NA	0.12	2.20		**N**
9:20	9.23	8.28	-180	1.00	621.0	0.00	NA	0.08	2.60	clear, no odor	**N**

Additional water quality parameters were not monitored due to poor recharge of the well. Groundwater sample was collected after groundwater was no longer turbid.

Notes:

1. Well depths and groundwater depths were measured in feet below the top of well casing
2. Well and tubing diameters are measured in inches
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	Proposed Bally's Casino - Ring Road at Ferry Point Park	**Well No:**	TMW31	**Water Quality Device Model:**	Horiba U52-2	**Weather:**	Cloudy, 33-47 °F	**Sample(s):**	TMW31_030725
Project Number:	170773001	**Well Depth:**	16.0	**Pine Number:**	51863	**Background PID (ppm):**	0.0		
Site Location:	Bronx, NY	**Well Diameter:**	1 inch	**Pump Make and Model:**	Peristaltic Pump	**PID Beneath Inner Cap (ppm):**	0.0		
Sampling Personnel:	Savannah Walters	**Well Screen Interval:**	5-15	**Pine Number:**	051387	**Pump Intake Depth:**	13.00	**Sample Date:**	3/7/2025
				Tubing Diameter:	3/8" ID X 1/2" OD	**Depth to Water Before Purge:**	5.20	**Time:**	12:59

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
12:35	9.12	9.22	46	0.89	1000.0	1.32	NA	NA	0.40		**N/A**
12:40	8.71	7.78	-107	1.13	1000.0	0.00	NA	0.12	1.00		**N/A**
12:45	8.76	7.49	-101	1.24	1000.0	0.00	NA	0.14	1.70	turbid, no odor	**N**
12:50	8.91	7.41	-99	1.27	1000.0	0.00	NA	0.10	2.20		**N**
12:55	8.93	7.34	-96	1.29	1000.0	0.00	NA	0.16	3.00	clear, no odor	**N**

Additional water quality parameters were not monitored due to poor recharge of the well. Groundwater sample was collected after groundwater was no longer turbid.

Notes:

1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	Proposed Bally's Casino - Ring Road at Ferry Point Park	**Well No:**	TMW34	**Water Quality Device Model:**	Horiba U52-2	**Weather:**	Sunny, 40-60 °F	**Sample(s):**	TMW34_031025 GWDUP01_031025
Project Number:	170773001	**Well Depth:**	15.0	**Pine Number:**	51863	**Background PID (ppm):**	0.0		
Site Location:	Bronx, NY	**Well Diameter:**	1 inch	**Pump Make and Model:**	Peristaltic Pump	**PID Beneath Inner Cap (ppm):**	0.0		
Sampling Personnel:	Savannah Walters	**Well Screen Interval:**	5-15	**Pine Number:**	051387	**Pump Intake Depth:**	14.00	**Sample Date:**	3/10/2025
				Tubing Diameter:	3/8" ID X 1/2" OD	**Depth to Water Before Purge:**	6.70	**Time:**	9:17

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
8:50	10.91	7.07	-47	3.44	61.2	3.90	NA	NA	0.50		**N/A**
8:55	11.17	7.03	-52	3.55	26.6	0.04	NA	0.10	1.00	clear, no odor	**N/A**
9:00	11.28	7.02	-55	3.56	21.3	0.00	NA	0.10	1.50		**N**
9:05	11.17	7.02	-56	3.56	9.1	0.00	NA	0.10	2.00	**clear, no odor**	**Y**

Notes:
1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	Proposed Bally's Casino - Ring Road at Ferry Point Park	**Well No:**	TMW38	**Water Quality Device Model:**	Horiba U52-2	**Weather:**	Sunny, 40-60 ºF	**Sample(s):**	TMW38_031025
Project Number:	170773001	**Well Depth:**	15.0	**Pine Number:**	51863	**Background PID (ppm):**	0.0		
Site Location:	Bronx, NY	**Well Diameter:**	1 inch	**Pump Make and Model:**	Peristaltic Pump	**PID Beneath Inner Cap (ppm):**	0.0		
Sampling Personnel:	Savannah Walters	**Well Screen Interval:**	5-15	**Pine Number:**	051387	**Pump Intake Depth:**	14.00	**Sample Date:**	3/10/2025
				Tubing Diameter:	3/8" ID X 1/2" OD	**Depth to Water Before Purge:**	6.40	**Time:**	14:34

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
14:10	10.70	7.14	-63	2.29	39.2	1.64	NA	NA	0.50		**N/A**
14:15	10.38	7.04	-61	2.29	22.5	0.18	NA	0.05	0.75	clear, no odor	**N/A**
14:20	10.29	7.00	-59	2.30	15.7	0.00	NA	0.05	1.00		**N**
14:25	10.33	6.96	-59	2.29	13.9	0.00	NA	0.05	1.25	**clear, no odor**	**Y**

Notes:
1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	Proposed Bally's Casino - Ring Road at Ferry Point Park	**Well No:**	TMW42	**Water Quality Device Model:**	Horiba U52-2	**Weather:**	Sunny, 40-61 °F	**Sample(s):**	TMW42_031125
Project Number:	170773001	**Well Depth:**	15.0	**Pine Number:**	51863	**Background PID (ppm):**	0.0		
Site Location:	Bronx, NY	**Well Diameter:**	1 inch	**Pump Make and Model:**	Peristaltic Pump	**PID Beneath Inner Cap (ppm):**	0.0		
Sampling Personnel:	Savannah Walters	**Well Screen Interval:**	5-15	**Pine Number:**	051387	**Pump Intake Depth:**	11.00	**Sample Date:**	3/11/2025
				Tubing Diameter:	3/8" ID X 1/2" OD	**Depth to Water Before Purge:**	4.30	**Time:**	9:47

STABILIZATION = 3 successive readings within limits

TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
9:20	6.42	7.82	-67	1.05	224.0	0.01	NA	NA	1.50	clear, no odor	**N/A**
9:25	6.42	7.54	-68	1.05	79.6	0.00	NA	0.10	2.00		**N/A**
9:30	6.44	7.45	-69	1.07	34.1	0.00	NA	0.10	2.50		**N**
9:35	6.54	7.42	-71	1.09	364.0	0.00	NA	0.10	3.00		**N**

Additional water quality parameters were not monitored due to poor recharge of the well. Groundwater sample was collected after groundwater was no longer turbid.

Notes:

1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

Appendix E

Laboratory Analytical Reports

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Report Date: 03/07/2025
Client Project ID: 170773001
York Project (SDG) No.: 25B1548

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/07/2025
Client Project ID: 170773001
York Project (SDG) No.: 25B1548

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 27, 2025 and listed below. The project was identified as your project: **170773001**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25B1548-02	SB01_0-2	Soil	02/27/2025	02/27/2025
25B1548-03	SB01_5-7	Soil	02/27/2025	02/27/2025
25B1548-04	SB02_0-2	Soil	02/27/2025	02/27/2025
25B1548-05	SB02_5-7	Soil	02/27/2025	02/27/2025
25B1548-06	SB03_0-2	Soil	02/27/2025	02/27/2025
25B1548-07	SB03_5-7	Soil	02/27/2025	02/27/2025
25B1548-08	SB04_0-2	Soil	02/27/2025	02/27/2025
25B1548-09	SB04_5-7	Soil	02/27/2025	02/27/2025
25B1548-10	SODUP01_022725	Soil	02/27/2025	02/27/2025

General Notes for York Project (SDG) No.: 25B1548

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By **Date:** 03/07/2025

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: **SB01_0-2** **York Sample ID:** **25B1548-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:07 am	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.040	0.079	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB01_0-2 **York Sample ID:** 25B1548-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:07 am	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB01_0-2 **York Sample ID:** 25B1548-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:07 am	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND	QL-02	mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB01_0-2 **York Sample ID:** 25B1548-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:07 am	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0059	0.012	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.8 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0983	0.196	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0983	0.196	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0983	0.196	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB01_0-2 **York Sample ID:** 25B1548-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:07 am	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0983	0.196	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0983	0.196	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0983	0.196	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0983	0.196	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0983	0.196	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.185**		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.197	0.394	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.321**		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.197	0.394	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.894**		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB01_0-2** **York Sample ID:** **25B1548-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:07 am	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.884**	CCVE	mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.862**		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.469**		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.835**		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0983	0.196	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	**Carbazole**	**0.164**		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.966**		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	**Dibenzo(a,h)anthracene**	**0.151**		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	**Dibenzofuran**	**0.0770**	J	mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0983	0.196	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**2.28**		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB01_0-2** **York Sample ID:** **25B1548-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:07 am	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	**Fluorene**	**0.0865**	J	mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.524**	CCVE	mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**1.64**		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**1.32**		mg/kg dry	0.0493	0.0983	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.197	0.394	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:10	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*81.0 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*72.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*66.3 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*67.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*69.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*56.9 %*	*24-116*

Sample Information

Client Sample ID: **SB01_0-2** **York Sample ID:** **25B1548-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:07 am	02/27/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM Certifications: NELAC-NY10854	03/06/2025 08:52	03/07/2025 02:08	SS

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*102 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.131	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**0.115**	J	ug/kg dry	0.0625	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.124	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.211	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
335-67-1	**Perfluorooctanoic acid (PFOA)**	**0.427**		ug/kg dry	0.203	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**0.720**		ug/kg dry	0.197	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.223	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.225	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.233	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.192	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.147	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.121	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.174	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.229	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**0.144**	J	ug/kg dry	0.128	0.471	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.172	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM

Sample Information

Client Sample ID: SB01_0-2 **York Sample ID:** 25B1548-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:07 am	02/27/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.183	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.225	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.884	0.896	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.890	0.905	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.128	0.943	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.164	0.419	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 00:19	AM
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.227	0.471	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 00:19	AM
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ug/kg dry	0.0731	0.471	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 00:19	AM
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.113	0.471	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 00:19	AM
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.185	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.701	0.884	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.716	0.943	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.366	0.891	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.290	0.881	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
919005-14-4	* ADONA	ND		ug/kg dry	0.205	0.891	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.199	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 00:19	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.146	0.226	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 00:19	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.747	1.18	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 00:19	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.47	5.89	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 00:19	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.77	5.89	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 00:19	AM
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.720	2.36	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 00:19	AM

Sample Information

Client Sample ID: **SB01_0-2** **York Sample ID:** **25B1548-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:07 am	02/27/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.212	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 00:19	AM
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.821	2.36	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 00:19	AM
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.233	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 00:19	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*114 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*121 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*127 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*112 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*119 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*115 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*118 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*117 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*83.0 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*54.2 %*		*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*124 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*75.0 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*109 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*169 %*	PFSu-H	*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*172 %*	PFSu-H	*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*120 %*		*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*190 %*		*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*115 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*122 %*		*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*70.1 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*68.6 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*129 %*		*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*74.4 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*74.8 %*		*25-150*

Sample Information

Client Sample ID: **SB01_0-2** **York Sample ID:** **25B1548-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:07 am	02/27/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00195	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00195	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	**4,4'-DDT**	**0.00242**	P	mg/kg dry	0.00195	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		mg/kg dry	0.00195	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		mg/kg dry	0.00195	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00195	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
319-85-7	beta-BHC	ND		mg/kg dry	0.00195	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		mg/kg dry	0.00195	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	**Dieldrin**	**0.00395**		mg/kg dry	0.00195	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		mg/kg dry	0.00195	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00195	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00195	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		mg/kg dry	0.00195	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00195	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00195	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00195	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	**gamma-Chlordane**	**0.00200**	P	mg/kg dry	0.00195	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	**Heptachlor**	**0.00480**		mg/kg dry	0.00195	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00195	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00195	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.195	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB01_0-2** **York Sample ID:** **25B1548-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:07 am	02/27/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	*** Chlordane, total**	**0.0511**		mg/kg dry	0.0389	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:21	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*57.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*53.1 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0196	1	EPA 8082A	03/05/2025 08:00	03/05/2025 23:43	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0196	1	EPA 8082A	03/05/2025 08:00	03/05/2025 23:43	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0196	1	EPA 8082A	03/05/2025 08:00	03/05/2025 23:43	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0196	1	EPA 8082A	03/05/2025 08:00	03/05/2025 23:43	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0196	1	EPA 8082A	03/05/2025 08:00	03/05/2025 23:43	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0196	1	EPA 8082A	03/05/2025 08:00	03/05/2025 23:43	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0196	1	EPA 8082A	03/05/2025 08:00	03/05/2025 23:43	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0196	1	EPA 8082A	03/05/2025 08:00	03/05/2025 23:43	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*64.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*44.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0234	1	EPA 8151A	03/06/2025 13:00	03/07/2025 13:07	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0234	1	EPA 8151A	03/06/2025 13:00	03/07/2025 13:07	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0234	1	EPA 8151A	03/06/2025 13:00	03/07/2025 13:07	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: SB01_0-2 **York Sample ID:** 25B1548-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:07 am	02/27/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*87.2 %*			*21-150*					

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**14600**		mg/kg dry	4.93	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.46	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**6.00**		mg/kg dry	1.48	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**119**		mg/kg dry	2.46	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.566**		mg/kg dry	0.050	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.296	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**12100**		mg/kg dry	4.93	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**34.2**		mg/kg dry	0.493	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**11.3**		mg/kg dry	0.394	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**41.1**		mg/kg dry	1.97	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**22800**		mg/kg dry	24.6	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**83.0**		mg/kg dry	0.493	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**5770**		mg/kg dry	4.93	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**411**		mg/kg dry	0.493	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**43.3**		mg/kg dry	0.982	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**1960**	M-CCV 1	mg/kg dry	4.93	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.46	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.497	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB01_0-2** **York Sample ID:** **25B1548-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:07 am	02/27/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**296**		mg/kg dry	49.3	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.98	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**36.2**		mg/kg dry	0.982	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**148**		mg/kg dry	2.45	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:21	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.190**		mg/kg dry	0.0355	1	EPA 7473	03/04/2025 17:13	03/05/2025 11:01	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.592	1	EPA 7196A	03/04/2025 09:34	03/04/2025 16:45	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**34.2**		mg/kg	0.500	1	Calculation	03/05/2025 17:33	03/05/2025 17:34	AA
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.592	1	EPA 9014/9010C	03/05/2025 08:17	03/05/2025 16:31	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **SB01_0-2** **York Sample ID:** **25B1548-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:07 am	02/27/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**84.5**		%	0.100	1	SM 2540G	02/28/2025 13:25	02/28/2025 14:05	BF
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: SB01_5-7 **York Sample ID:** 25B1548-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:20 am	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.033	0.065	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB01_5-7 **York Sample ID:** 25B1548-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:20 am	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.0079**	ICVE	mg/kg dry	0.0033	0.0065	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB01_5-7 **York Sample ID:** 25B1548-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:20 am	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND	QL-02	mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB01_5-7** **York Sample ID:** **25B1548-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:20 am	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0049	0.0098	1	EPA 8260D	03/03/2025 13:31	03/04/2025 02:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.5 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.100	0.200	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.100	0.200	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.100	0.200	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB01_5-7 **York Sample ID:** 25B1548-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:20 am	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.100	0.200	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.100	0.200	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.100	0.200	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.100	0.200	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.100	0.200	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.200	0.401	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.200	0.401	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB01_5-7 **York Sample ID:** 25B1548-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:20 am	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.100	0.200	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.100	0.200	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB01_5-7 **York Sample ID:** 25B1548-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:20 am	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0501	0.100	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.200	0.401	2	EPA 8270E	03/06/2025 08:49	03/07/2025 09:39	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*96.7 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*85.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*77.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*79.7 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*84.9 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*68.6 %*	*24-116*

Sample Information

Client Sample ID: **SB01_5-7** **York Sample ID:** **25B1548-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:20 am	02/27/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM	03/06/2025 08:52	03/07/2025 02:23	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*82.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00197	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00197	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00197	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00197	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00197	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00197	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00197	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00197	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00197	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00197	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00197	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00197	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00197	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00197	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00197	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00197	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB01_5-7 **York Sample ID:** 25B1548-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:20 am	02/27/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00197	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00197	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00197	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00197	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.197	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0395	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:37	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*57.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*53.7 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0199	1	EPA 8082A	03/05/2025 08:00	03/05/2025 23:57	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0199	1	EPA 8082A	03/05/2025 08:00	03/05/2025 23:57	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0199	1	EPA 8082A	03/05/2025 08:00	03/05/2025 23:57	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0199	1	EPA 8082A	03/05/2025 08:00	03/05/2025 23:57	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0199	1	EPA 8082A	03/05/2025 08:00	03/05/2025 23:57	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0199	1	EPA 8082A	03/05/2025 08:00	03/05/2025 23:57	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0199	1	EPA 8082A	03/05/2025 08:00	03/05/2025 23:57	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0199	1	EPA 8082A	03/05/2025 08:00	03/05/2025 23:57	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*62.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*44.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB01_5-7** **York Sample ID:** **25B1548-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:20 am	02/27/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0238	1	EPA 8151A	03/06/2025 13:00	03/07/2025 13:14	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0238	1	EPA 8151A	03/06/2025 13:00	03/07/2025 13:14	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0238	1	EPA 8151A	03/06/2025 13:00	03/07/2025 13:14	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*91.8 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**17900**		mg/kg dry	5.01	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.51	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.20**		mg/kg dry	1.50	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**94.7**		mg/kg dry	2.50	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.499**		mg/kg dry	0.051	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.301	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1180**		mg/kg dry	5.02	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**64.6**		mg/kg dry	0.502	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**18.2**		mg/kg dry	0.401	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**23.2**		mg/kg dry	2.01	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**23400**		mg/kg dry	25.1	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**6.55**		mg/kg dry	0.502	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**5850**		mg/kg dry	5.02	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**282**		mg/kg dry	0.502	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**134**		mg/kg dry	0.999	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB01_5-7** **York Sample ID:** **25B1548-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:20 am	02/27/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1840**	M-CCV 1	mg/kg dry	5.02	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.51	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.505	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**252**		mg/kg dry	50.2	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.01	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**39.5**		mg/kg dry	0.999	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**39.2**		mg/kg dry	2.50	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0361	1	EPA 7473	03/04/2025 17:13	03/05/2025 11:01	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.602	1	EPA 7196A	03/04/2025 09:34	03/04/2025 16:45	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**64.6**		mg/kg	0.500	1	Calculation	03/05/2025 17:33	03/05/2025 17:34	AA
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.602	1	EPA 9014/9010C	03/05/2025 08:17	03/05/2025 16:31	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB01_5-7** **York Sample ID:** **25B1548-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 9:20 am	02/27/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**83.1**		%	0.100	1	SM 2540G	02/28/2025 13:25	02/28/2025 14:05	BF
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB02_0-2** **York Sample ID:** **25B1548-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:07 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.038	0.075	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB02_0-2 **York Sample ID:** 25B1548-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:07 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0038	0.0075	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB02_0-2 **York Sample ID:** 25B1548-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:07 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND	QL-02	mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB02_0-2** **York Sample ID:** **25B1548-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:07 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0056	0.011	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.4 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.101	0.201	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.101	0.201	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.101	0.201	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB02_0-2** **York Sample ID:** **25B1548-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:07 pm	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.101	0.201	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.101	0.201	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.101	0.201	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.101	0.201	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.101	0.201	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.108**		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.202	0.404	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.263**		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.202	0.404	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.646**		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB02_0-2** **York Sample ID:** **25B1548-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:07 pm	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.615**	CCVE	mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.488**		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.316**		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.513**		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.101	0.201	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.554**		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	**Dibenzo(a,h)anthracene**	**0.0943**	J	mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.101	0.201	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**1.49**		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB02_0-2** **York Sample ID:** **25B1548-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:07 pm	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	**Fluorene**	**0.128**		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.330**	CCVE	mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**1.10**		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.927**		mg/kg dry	0.0505	0.101	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.202	0.404	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:09	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*87.8 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*79.1 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*75.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*75.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*75.5 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*64.2 %*	*24-116*

Sample Information

Client Sample ID: **SB02_0-2** **York Sample ID:** **25B1548-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:07 pm	02/27/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.0	1	EPA 8270D SIM	03/06/2025 08:52	03/07/2025 02:38	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*82.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00199	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00199	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00199	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00199	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00199	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00199	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00199	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00199	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00199	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00199	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00199	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00199	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00199	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00199	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00199	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00199	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB02_0-2 **York Sample ID:** 25B1548-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:07 pm	02/27/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00199	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00199	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00199	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00199	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.199	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0399	5	EPA 8081B	03/05/2025 08:00	03/05/2025 21:52	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*59.4 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*57.4 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0201	1	EPA 8082A	03/05/2025 08:00	03/06/2025 00:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0201	1	EPA 8082A	03/05/2025 08:00	03/06/2025 00:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0201	1	EPA 8082A	03/05/2025 08:00	03/06/2025 00:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0201	1	EPA 8082A	03/05/2025 08:00	03/06/2025 00:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0201	1	EPA 8082A	03/05/2025 08:00	03/06/2025 00:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0201	1	EPA 8082A	03/05/2025 08:00	03/06/2025 00:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0201	1	EPA 8082A	03/05/2025 08:00	03/06/2025 00:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0201	1	EPA 8082A	03/05/2025 08:00	03/06/2025 00:11	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*71.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*47.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB02_0-2** **York Sample ID:** **25B1548-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:07 pm	02/27/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0242	1	EPA 8151A	03/06/2025 13:00	03/07/2025 13:50	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0242	1	EPA 8151A	03/06/2025 13:00	03/07/2025 13:50	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0242	1	EPA 8151A	03/06/2025 13:00	03/07/2025 13:50	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*93.4 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**15800**		mg/kg dry	5.05	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.53	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**4.86**		mg/kg dry	1.52	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**94.8**		mg/kg dry	2.52	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.557**		mg/kg dry	0.051	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.303	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1890**		mg/kg dry	5.05	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**39.0**		mg/kg dry	0.506	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**13.6**		mg/kg dry	0.404	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**23.8**		mg/kg dry	2.02	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**23600**		mg/kg dry	25.3	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**27.2**		mg/kg dry	0.506	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**4300**		mg/kg dry	5.06	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**552**		mg/kg dry	0.506	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**51.9**		mg/kg dry	1.01	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB02_0-2** **York Sample ID:** **25B1548-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:07 pm	02/27/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1810**	M-CCV 1	mg/kg dry	5.06	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.53	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.509	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**305**		mg/kg dry	50.5	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.03	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**38.9**		mg/kg dry	1.01	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**47.2**		mg/kg dry	2.52	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0476**		mg/kg dry	0.0364	1	EPA 7473	03/04/2025 17:13	03/05/2025 11:01	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.607	1	EPA 7196A	03/04/2025 09:34	03/04/2025 16:45	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**39.0**		mg/kg	0.500	1	Calculation	03/05/2025 17:33	03/05/2025 17:34	AA
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.607	1	EPA 9014/9010C	03/05/2025 08:17	03/05/2025 16:31	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB02_0-2** **York Sample ID:** **25B1548-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:07 pm	02/27/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**82.4**		%	0.100	1	SM 2540G	02/28/2025 13:25	02/28/2025 14:05	BF
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB02_5-7 **York Sample ID:** 25B1548-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:18 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.033	0.065	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB02_5-7 **York Sample ID:** 25B1548-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:18 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0033	0.0065	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB02_5-7 **York Sample ID:** 25B1548-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:18 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND	QL-02	mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB02_5-7 **York Sample ID:** 25B1548-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:18 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0049	0.0098	1	EPA 8260D	03/03/2025 13:31	03/04/2025 03:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*102 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.9 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0981	0.196	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0981	0.196	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0981	0.196	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB02_5-7 **York Sample ID:** 25B1548-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:18 pm	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0981	0.196	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0981	0.196	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0981	0.196	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0981	0.196	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0981	0.196	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.196	0.393	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.196	0.393	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB02_5-7 **York Sample ID:** 25B1548-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:18 pm	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0981	0.196	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0981	0.196	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB02_5-7 **York Sample ID:** 25B1548-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:18 pm	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0492	0.0981	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.196	0.393	2	EPA 8270E	03/06/2025 08:49	03/07/2025 10:38	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*86.2 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*75.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*75.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*74.1 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*78.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*64.4 %*	*24-116*

Sample Information

Client Sample ID: **SB02_5-7** **York Sample ID:** **25B1548-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:18 pm	02/27/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.0	1	EPA 8270D SIM	03/06/2025 08:52	03/07/2025 02:53	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*98.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00192	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00192	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00192	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00192	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00192	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	**alpha-Chlordane**	**0.00195**		mg/kg dry	0.00192	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00192	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00192	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00192	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00192	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00192	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00192	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00192	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00192	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00192	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00192	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB02_5-7 **York Sample ID:** 25B1548-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:18 pm	02/27/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	**gamma-Chlordane**	**0.00239**	P	mg/kg dry	0.00192	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
76-44-8	Heptachlor	ND		mg/kg dry	0.00192	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00192	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-43-5	Methoxychlor	ND		mg/kg dry	0.00192	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
8001-35-2	Toxaphene	ND		mg/kg dry	0.192	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0383	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:08	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*59.4 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*53.7 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0193	1	EPA 8082A	03/05/2025 08:00	03/06/2025 00:25	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0193	1	EPA 8082A	03/05/2025 08:00	03/06/2025 00:25	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0193	1	EPA 8082A	03/05/2025 08:00	03/06/2025 00:25	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0193	1	EPA 8082A	03/05/2025 08:00	03/06/2025 00:25	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0193	1	EPA 8082A	03/05/2025 08:00	03/06/2025 00:25	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0193	1	EPA 8082A	03/05/2025 08:00	03/06/2025 00:25	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0193	1	EPA 8082A	03/05/2025 08:00	03/06/2025 00:25	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0193	1	EPA 8082A	03/05/2025 08:00	03/06/2025 00:25	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*71.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*49.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB02_5-7** **York Sample ID:** **25B1548-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:18 pm	02/27/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0231	1	EPA 8151A	03/06/2025 13:00	03/07/2025 13:57	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0231	1	EPA 8151A	03/06/2025 13:00	03/07/2025 13:57	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0231	1	EPA 8151A	03/06/2025 13:00	03/07/2025 13:57	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*90.0 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**13100**		mg/kg dry	4.92	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.46	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**1.94**		mg/kg dry	1.48	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**63.9**		mg/kg dry	2.45	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.368**		mg/kg dry	0.050	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.295	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**956**		mg/kg dry	4.92	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**31.9**		mg/kg dry	0.492	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**10.3**		mg/kg dry	0.393	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**20.2**		mg/kg dry	1.97	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**18400**		mg/kg dry	24.6	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**3.89**		mg/kg dry	0.492	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3910**		mg/kg dry	4.92	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**470**		mg/kg dry	0.492	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**46.4**		mg/kg dry	0.980	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB02_5-7** **York Sample ID:** **25B1548-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:18 pm	02/27/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1830**	M-CCV 1	mg/kg dry	4.92	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.46	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.496	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**441**		mg/kg dry	49.2	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.97	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**28.9**		mg/kg dry	0.980	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**28.9**		mg/kg dry	2.45	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:31	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0354	1	EPA 7473	03/04/2025 17:13	03/05/2025 11:01	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.590	1	EPA 7196A	03/04/2025 09:34	03/04/2025 16:45	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**31.9**		mg/kg	0.500	1	Calculation	03/05/2025 17:33	03/05/2025 17:34	AA
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.590	1	EPA 9014/9010C	03/05/2025 08:17	03/05/2025 16:31	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB02_5-7** **York Sample ID:** **25B1548-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 12:18 pm	02/27/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**84.7**		%	0.100	1	SM 2540G	02/28/2025 13:25	02/28/2025 14:05	BF
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB03_0-2** **York Sample ID:** **25B1548-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 2:58 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.033	0.065	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB03_0-2 **York Sample ID:** 25B1548-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 2:58 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0033	0.0065	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB03_0-2 **York Sample ID:** 25B1548-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 2:58 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND	QL-02	mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB03_0-2 **York Sample ID:** 25B1548-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 2:58 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0016	0.0033	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0049	0.0098	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*102 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.7 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0931	0.186	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0931	0.186	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0931	0.186	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB03_0-2 **York Sample ID:** 25B1548-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 2:58 pm	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0931	0.186	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0931	0.186	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0931	0.186	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0931	0.186	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0931	0.186	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	**Acenaphthene**	**0.206**		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.0998**		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.187	0.373	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.775**		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.187	0.373	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**1.22**		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB03_0-2 **York Sample ID:** 25B1548-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 2:58 pm	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**1.23**	CCVE	mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**1.07**		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.625**		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**1.06**		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0931	0.186	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	**Carbazole**	**0.124**		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**1.18**		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	**Dibenzo(a,h)anthracene**	**0.188**		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	**Dibenzofuran**	**0.0819**	J	mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0931	0.186	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**3.84**		mg/kg dry	0.117	0.233	5	EPA 8270E	03/06/2025 08:49	03/07/2025 14:22	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB03_0-2** **York Sample ID:** **25B1548-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 2:58 pm	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	**Fluorene**	**0.179**		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.668**	CCVE	mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**2.47**		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**2.33**		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.187	0.373	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:08	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*81.3 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*70.8 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*69.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*70.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*66.8 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*59.8 %*	*24-116*

Sample Information

Client Sample ID: SB03_0-2 **York Sample ID:** 25B1548-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 2:58 pm	02/27/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.0	1	EPA 8270D SIM	03/06/2025 08:52	03/07/2025 03:08	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*74.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00184	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00184	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00184	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00184	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00184	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00184	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00184	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00184	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00184	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00184	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00184	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00184	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00184	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00184	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00184	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00184	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB03_0-2 **York Sample ID:** 25B1548-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 2:58 pm	02/27/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00184	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00184	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00184	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00184	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.184	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0369	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:23	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*52.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*50.5 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0186	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0186	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0186	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0186	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0186	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0186	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0186	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0186	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:07	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*53.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*37.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SB03_0-2 **York Sample ID:** 25B1548-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 2:58 pm	02/27/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0218	1	EPA 8151A	03/06/2025 13:00	03/07/2025 14:04	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0218	1	EPA 8151A	03/06/2025 13:00	03/07/2025 14:04	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0218	1	EPA 8151A	03/06/2025 13:00	03/07/2025 14:04	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*87.4 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**14200**		mg/kg dry	4.67	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.33	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**12.5**		mg/kg dry	1.40	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**78.3**		mg/kg dry	2.33	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.424**		mg/kg dry	0.047	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.280	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**33100**		mg/kg dry	4.67	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**18.5**		mg/kg dry	0.467	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**6.27**		mg/kg dry	0.373	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**32.7**		mg/kg dry	1.87	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**16800**		mg/kg dry	23.3	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**111**		mg/kg dry	0.467	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**4380**		mg/kg dry	4.67	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**272**		mg/kg dry	0.467	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**13.4**		mg/kg dry	0.930	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB03_0-2** **York Sample ID:** **25B1548-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 2:58 pm	02/27/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1460**	M-CCV 1	mg/kg dry	4.67	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.33	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.471	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**783**		mg/kg dry	46.7	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.87	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**30.3**		mg/kg dry	0.930	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**102**		mg/kg dry	2.33	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:32	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.260**		mg/kg dry	0.0336	1	EPA 7473	03/04/2025 17:13	03/05/2025 11:01	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.560	1	EPA 7196A	03/04/2025 09:34	03/04/2025 16:45	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**18.5**		mg/kg	0.500	1	Calculation	03/05/2025 17:33	03/05/2025 17:34	AA
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.560	1	EPA 9014/9010C	03/05/2025 08:17	03/05/2025 16:31	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB03_0-2** **York Sample ID:** **25B1548-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 2:58 pm	02/27/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.2**		%	0.100	1	SM 2540G	02/28/2025 13:25	02/28/2025 14:05	BF
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB03_5-7** **York Sample ID:** **25B1548-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:06 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.037	0.074	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.0071**	CCVE	mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB03_5-7 **York Sample ID:** 25B1548-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:06 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.028**	ICVE	mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	**Carbon disulfide**	**0.011**		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB03_5-7 **York Sample ID:** 25B1548-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:06 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND	QL-02	mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB03_5-7 **York Sample ID:** 25B1548-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:06 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0055	0.011	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.9 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.106	0.212	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.106	0.212	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.106	0.212	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB03_5-7 **York Sample ID:** 25B1548-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:06 pm	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.106	0.212	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.106	0.212	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.106	0.212	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.106	0.212	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.106	0.212	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.213	0.425	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.213	0.425	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB03_5-7 **York Sample ID:** 25B1548-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:06 pm	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.106	0.212	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.106	0.212	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB03_5-7 **York Sample ID:** 25B1548-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:06 pm	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0532	0.106	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.213	0.425	2	EPA 8270E	03/06/2025 08:49	03/07/2025 11:37	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*84.9 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*73.3 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*74.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*71.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*74.8 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*63.8 %*	*24-116*

Sample Information

Client Sample ID: **SB03_5-7** **York Sample ID:** **25B1548-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:06 pm	02/27/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.0	1	EPA 8270D SIM	03/06/2025 08:52	03/07/2025 03:23	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*80.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00212	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00212	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00212	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00212	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00212	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00212	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00212	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00212	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00212	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00212	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00212	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00212	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00212	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00212	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00212	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00212	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB03_5-7 **York Sample ID:** 25B1548-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:06 pm	02/27/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00212	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00212	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00212	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00212	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.212	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0424	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:39	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*54.8 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*52.4 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0214	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0214	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0214	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0214	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0214	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0214	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0214	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0214	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:21	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*50.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*34.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB03_5-7** **York Sample ID:** **25B1548-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:06 pm	02/27/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0258	1	EPA 8151A	03/04/2025 09:10	03/05/2025 14:20	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0258	1	EPA 8151A	03/04/2025 09:10	03/05/2025 14:20	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0258	1	EPA 8151A	03/04/2025 09:10	03/05/2025 14:20	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*94.6 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**12200**		mg/kg dry	5.39	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.70	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.38**		mg/kg dry	1.62	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**66.9**		mg/kg dry	2.69	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.396**		mg/kg dry	0.054	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.324	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1730**		mg/kg dry	5.39	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**37.9**		mg/kg dry	0.540	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**9.64**		mg/kg dry	0.431	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**19.7**		mg/kg dry	2.16	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**20600**		mg/kg dry	27.0	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**26.5**		mg/kg dry	0.540	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**4540**		mg/kg dry	5.40	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**445**		mg/kg dry	0.540	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**54.0**		mg/kg dry	1.07	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB03_5-7** **York Sample ID:** **25B1548-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:06 pm	02/27/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**2330**	M-CCV 1	mg/kg dry	5.40	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.70	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.544	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**1730**		mg/kg dry	53.9	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.16	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**30.3**		mg/kg dry	1.07	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**39.9**		mg/kg dry	2.69	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0654**		mg/kg dry	0.0388	1	EPA 7473	03/04/2025 17:13	03/05/2025 11:01	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.647	1	EPA 7196A	03/04/2025 09:34	03/04/2025 16:45	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**37.9**		mg/kg	0.500	1	Calculation	03/05/2025 17:33	03/05/2025 17:34	AA
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.647	1	EPA 9014/9010C	03/05/2025 08:17	03/05/2025 16:31	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB03_5-7** **York Sample ID:** **25B1548-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:06 pm	02/27/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**77.3**		%	0.100	1	SM 2540G	02/28/2025 13:25	02/28/2025 14:05	BF
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB04_0-2** **York Sample ID:** **25B1548-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:40 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.036	0.072	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB04_0-2 **York Sample ID:** 25B1548-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:40 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0036	0.0072	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0036	0.0072	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB04_0-2 **York Sample ID:** 25B1548-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:40 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND	QL-02	mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0036	0.0072	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0036	0.0072	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB04_0-2 **York Sample ID:** 25B1548-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:40 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0054	0.011	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*102 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.2 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0909	0.182	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB04_0-2 **York Sample ID:** 25B1548-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:40 pm	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0909	0.182	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	**Acenaphthene**	**0.101**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.102**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.182	0.364	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.370**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.182	0.364	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**1.06**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB04_0-2 **York Sample ID:** 25B1548-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:40 pm	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**1.05**	CCVE	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**1.01**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.568**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.934**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	**Carbazole**	**0.104**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**1.09**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	**Dibenzo(a,h)anthracene**	**0.183**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	**Dibenzofuran**	**0.0763**	J	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**3.73**		mg/kg dry	0.114	0.227	5	EPA 8270E	03/06/2025 08:49	03/07/2025 14:52	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB04_0-2** **York Sample ID:** **25B1548-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:40 pm	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	**Fluorene**	**0.118**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.624**	CCVE	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**1.76**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**1.84**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.182	0.364	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*88.1 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*78.7 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*78.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*76.1 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*79.3 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*67.8 %*	*24-116*

Sample Information

Client Sample ID: **SB04_0-2** **York Sample ID:** **25B1548-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:40 pm	02/27/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.0	1	EPA 8270D SIM	03/06/2025 08:52	03/07/2025 03:38	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*84.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00180	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00180	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00180	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00180	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00180	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00180	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00180	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00180	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00180	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00180	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00180	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00180	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB04_0-2 **York Sample ID:** 25B1548-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:40 pm	02/27/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00180	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00180	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00180	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.180	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0361	5	EPA 8081B	03/05/2025 08:00	03/05/2025 22:54	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*57.5 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*54.3 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0182	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:35	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0182	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:35	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0182	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:35	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0182	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:35	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0182	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:35	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0182	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:35	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0182	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:35	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0182	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:35	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*65.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*45.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB04_0-2** **York Sample ID:** **25B1548-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:40 pm	02/27/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0221	1	EPA 8151A	03/04/2025 09:10	03/05/2025 14:27	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0221	1	EPA 8151A	03/04/2025 09:10	03/05/2025 14:27	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0221	1	EPA 8151A	03/04/2025 09:10	03/05/2025 14:27	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*74.4 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**20800**		mg/kg dry	4.62	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.31	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.88**		mg/kg dry	1.39	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**90.4**		mg/kg dry	2.31	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.522**		mg/kg dry	0.047	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.277	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1080**		mg/kg dry	4.62	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**61.5**		mg/kg dry	0.462	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**17.6**		mg/kg dry	0.369	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**25.1**		mg/kg dry	1.85	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**25800**		mg/kg dry	23.1	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**8.61**		mg/kg dry	0.462	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**6200**		mg/kg dry	4.62	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**327**		mg/kg dry	0.462	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**112**		mg/kg dry	0.920	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB04_0-2** **York Sample ID:** **25B1548-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:40 pm	02/27/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**2120**	M-CCV 1	mg/kg dry	4.62	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.31	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.465	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**242**		mg/kg dry	46.2	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.85	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**45.8**		mg/kg dry	0.920	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**43.6**		mg/kg dry	2.30	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0468**		mg/kg dry	0.0332	1	EPA 7473	03/04/2025 17:13	03/05/2025 11:01	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.554	1	EPA 7196A	03/04/2025 09:34	03/04/2025 16:45	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**61.5**		mg/kg	0.500	1	Calculation	03/05/2025 17:33	03/05/2025 17:34	AA
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.554	1	EPA 9014/9010C	03/05/2025 08:17	03/05/2025 16:31	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB04_0-2** **York Sample ID:** **25B1548-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:40 pm	02/27/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.2**		%	0.100	1	SM 2540G	02/28/2025 13:25	02/28/2025 14:05	BF
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB04_5-7** **York Sample ID:** **25B1548-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:47 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.040	0.079	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.012**	CCVE	mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB04_5-7 **York Sample ID:** 25B1548-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:47 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.034**	ICVE	mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	**Carbon disulfide**	**0.0042**		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB04_5-7 **York Sample ID:** 25B1548-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:47 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND	QL-02	mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB04_5-7 **York Sample ID:** 25B1548-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:47 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0059	0.012	1	EPA 8260D	03/03/2025 13:31	03/04/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.4 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0920	0.184	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0920	0.184	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0920	0.184	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB04_5-7 **York Sample ID:** 25B1548-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:47 pm	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0920	0.184	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0920	0.184	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0920	0.184	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0920	0.184	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0920	0.184	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.0728**	J	mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.184	0.369	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.126**		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.184	0.369	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.527**		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB04_5-7 **York Sample ID:** 25B1548-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:47 pm	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.514**	CCVE	mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.518**		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.288**		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.442**		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.0853**	J	mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0920	0.184	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.536**		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	**Dibenzo(a,h)anthracene**	**0.0993**		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0920	0.184	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**1.06**		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB04_5-7 **York Sample ID:** 25B1548-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:47 pm	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.311**	CCVE	mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.385**		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.764**		mg/kg dry	0.0461	0.0920	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.184	0.369	2	EPA 8270E	03/06/2025 08:49	03/07/2025 12:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*78.5 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*70.3 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*69.3 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*67.1 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*68.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*63.8 %*	*24-116*

Sample Information

Client Sample ID: **SB04_5-7** **York Sample ID:** **25B1548-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:47 pm	02/27/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.0	1	EPA 8270D SIM	03/06/2025 13:46	03/07/2025 18:59	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*80.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00182	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00182	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00182	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00182	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00182	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00182	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00182	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00182	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00182	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00182	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00182	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00182	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00182	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00182	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00182	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00182	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB04_5-7 **York Sample ID:** 25B1548-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:47 pm	02/27/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00182	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00182	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00182	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00182	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.182	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0364	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:10	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*59.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*55.4 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0184	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0184	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0184	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0184	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0184	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0184	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0184	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0184	1	EPA 8082A	03/05/2025 08:00	03/06/2025 01:48	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*61.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*41.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB04_5-7** **York Sample ID:** **25B1548-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:47 pm	02/27/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0224	1	EPA 8151A	03/04/2025 09:10	03/05/2025 14:34	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0224	1	EPA 8151A	03/04/2025 09:10	03/05/2025 14:34	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0224	1	EPA 8151A	03/04/2025 09:10	03/05/2025 14:34	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*68.0 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**11500**		mg/kg dry	4.67	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.34	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**6.51**		mg/kg dry	1.40	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**105**		mg/kg dry	2.33	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.452**		mg/kg dry	0.047	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.280	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**31700**		mg/kg dry	4.67	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**24.0**		mg/kg dry	0.468	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**8.58**		mg/kg dry	0.374	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**44.8**		mg/kg dry	1.87	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**19500**		mg/kg dry	23.4	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**101**		mg/kg dry	0.468	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**14800**		mg/kg dry	4.68	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**293**		mg/kg dry	0.468	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**18.8**		mg/kg dry	0.931	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB04_5-7** **York Sample ID:** **25B1548-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:47 pm	02/27/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**2220**	M-CCV 1	mg/kg dry	4.68	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.34	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.471	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**482**		mg/kg dry	46.7	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.87	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**35.9**		mg/kg dry	0.931	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**111**		mg/kg dry	2.33	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.295**		mg/kg dry	0.0337	1	EPA 7473	03/04/2025 17:13	03/05/2025 11:01	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.561	1	EPA 7196A	03/04/2025 09:34	03/04/2025 16:45	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**24.0**		mg/kg	0.500	1	Calculation	03/05/2025 17:33	03/05/2025 17:34	AA
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.561	1	EPA 9014/9010C	03/05/2025 08:17	03/05/2025 16:31	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB04_5-7** **York Sample ID:** **25B1548-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:47 pm	02/27/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.1**		%	0.100	1	SM 2540G	02/28/2025 13:25	02/28/2025 14:05	BF
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SODUP01_022725** **York Sample ID:** **25B1548-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:00 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.064	0.13	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.0038**	J	mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SODUP01_022725** **York Sample ID:** **25B1548-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:00 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.018**	ICVE	mg/kg dry	0.0064	0.013	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0064	0.013	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: **SODUP01_022725** **York Sample ID:** **25B1548-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:00 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND	QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0064	0.013	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0064	0.013	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SODUP01_022725** **York Sample ID:** **25B1548-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:00 pm	02/27/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0096	0.019	1	EPA 8260D	03/03/2025 13:31	03/04/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.4 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.165	0.330	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.165	0.330	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.165	0.330	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SODUP01_022725** **York Sample ID:** **25B1548-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:00 pm	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.165	0.330	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.165	0.330	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.165	0.330	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.165	0.330	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.165	0.330	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.0964**	J	mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.331	0.662	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.0845**	J	mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.331	0.662	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.225**		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SODUP01_022725** **York Sample ID:** **25B1548-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:00 pm	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.230**	CCVE	mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.149**	J	mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.108**	J	mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.157**	J	mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CCVE, CAL-E	mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.165	0.330	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.240**		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.165	0.330	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.384**		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SODUP01_022725** **York Sample ID:** **25B1548-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:00 pm	02/27/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.106**	J	mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.0964**	J	mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.343**		mg/kg dry	0.0828	0.165	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.331	0.662	2	EPA 8270E	03/06/2025 08:49	03/07/2025 13:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*80.2 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*67.1 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*65.1 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*62.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*68.1 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*62.9 %*	*24-116*

Sample Information

Client Sample ID: **SODUP01_022725** **York Sample ID:** **25B1548-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:00 pm	02/27/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.0	1	EPA 8270D SIM	03/06/2025 13:46	03/07/2025 19:14	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*74.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	**4,4'-DDD**	**0.0117**		mg/kg dry	0.00331	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	**4,4'-DDE**	**0.00360**		mg/kg dry	0.00331	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00331	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00331	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00331	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	**alpha-Chlordane**	**0.0325**		mg/kg dry	0.00331	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00331	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00331	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00331	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00331	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00331	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00331	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00331	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00331	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00331	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00331	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: **SODUP01_022725** **York Sample ID:** **25B1548-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:00 pm	02/27/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	**gamma-Chlordane**	**0.0380**		mg/kg dry	0.00331	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
76-44-8	Heptachlor	ND		mg/kg dry	0.00331	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00331	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-43-5	Methoxychlor	ND		mg/kg dry	0.00331	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
8001-35-2	Toxaphene	ND		mg/kg dry	0.331	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
57-74-9	*** Chlordane, total**	**0.250**		mg/kg dry	0.0662	5	EPA 8081B	03/05/2025 08:00	03/05/2025 23:25	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*60.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*65.6 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0334	1	EPA 8082A	03/05/2025 08:00	03/06/2025 02:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0334	1	EPA 8082A	03/05/2025 08:00	03/06/2025 02:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0334	1	EPA 8082A	03/05/2025 08:00	03/06/2025 02:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0334	1	EPA 8082A	03/05/2025 08:00	03/06/2025 02:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0334	1	EPA 8082A	03/05/2025 08:00	03/06/2025 02:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0334	1	EPA 8082A	03/05/2025 08:00	03/06/2025 02:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0334	1	EPA 8082A	03/05/2025 08:00	03/06/2025 02:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0334	1	EPA 8082A	03/05/2025 08:00	03/06/2025 02:02	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*49.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SODUP01_022725** **York Sample ID:** **25B1548-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:00 pm	02/27/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0402	1	EPA 8151A	03/04/2025 09:10	03/05/2025 14:41	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0402	1	EPA 8151A	03/04/2025 09:10	03/05/2025 14:41	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0402	1	EPA 8151A	03/04/2025 09:10	03/05/2025 14:41	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*53.4 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**23300**		mg/kg dry	8.39	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	4.20	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**19.5**		mg/kg dry	2.52	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**99.7**		mg/kg dry	4.19	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.985**		mg/kg dry	0.085	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.722**		mg/kg dry	0.504	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**2290**		mg/kg dry	8.39	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**68.9**		mg/kg dry	0.840	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**13.5**		mg/kg dry	0.671	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**135**		mg/kg dry	3.36	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**37100**		mg/kg dry	42.0	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**182**		mg/kg dry	0.840	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**8730**		mg/kg dry	8.40	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**478**		mg/kg dry	0.840	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**36.6**		mg/kg dry	1.67	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SODUP01_022725** **York Sample ID:** **25B1548-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:00 pm	02/27/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**4960**	M-CCV 1	mg/kg dry	8.40	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	4.20	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	**Silver**	**1.19**		mg/kg dry	0.846	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**6570**		mg/kg dry	83.9	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	3.36	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**52.6**		mg/kg dry	1.67	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**218**		mg/kg dry	4.18	1	EPA 6010D	03/04/2025 14:42	03/05/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**2.81**		mg/kg dry	0.0604	1	EPA 7473	03/04/2025 17:13	03/05/2025 11:01	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	1.01	1	EPA 7196A	03/04/2025 09:34	03/04/2025 16:45	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**68.9**		mg/kg	0.500	1	Calculation	03/05/2025 17:33	03/05/2025 17:34	AA
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	1.01	1	EPA 9014/9010C	03/05/2025 09:44	03/05/2025 16:11	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SODUP01_022725** **York Sample ID:** **25B1548-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Soil	February 27, 2025 3:00 pm	02/27/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**49.6**		%	0.100	1	SM 2540G	02/28/2025 15:21	02/28/2025 19:30	SHS
							Certifications: CTDOH-PH-0723			

Analytical Batch Summary

Batch ID: BB51995 **Preparation Method:** % Solids Prep **Prepared By:** SMM

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-02	SB01_0-2	02/28/25
25B1548-03	SB01_5-7	02/28/25
25B1548-04	SB02_0-2	02/28/25
25B1548-05	SB02_5-7	02/28/25
25B1548-06	SB03_0-2	02/28/25
25B1548-07	SB03_5-7	02/28/25
25B1548-08	SB04_0-2	02/28/25
25B1548-09	SB04_5-7	02/28/25
BB51995-DUP1	Duplicate	02/28/25

Batch ID: BB52013 **Preparation Method:** % Solids Prep **Prepared By:** SHS

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-10	SODUP01_022725	02/28/25

Batch ID: BC50033 **Preparation Method:** EPA 1633 Prep **Prepared By:** MPR

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-02	SB01_0-2	03/02/25
BC50033-BLK1	Blank	03/02/25
BC50033-BS1	LCS	03/02/25
BC50033-BS2	LCS	03/02/25

Batch ID: BC50170 **Preparation Method:** EPA 3550C/8151A **Prepared By:** JAA

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-07	SB03_5-7	03/04/25
25B1548-08	SB04_0-2	03/04/25
25B1548-09	SB04_5-7	03/04/25
25B1548-10	SODUP01_022725	03/04/25
BC50170-BLK1	Blank	03/04/25
BC50170-BS1	LCS	03/04/25
BC50170-MS1	Matrix Spike	03/04/25
BC50170-MSD1	Matrix Spike Dup	03/04/25

Batch ID: BC50174 **Preparation Method:** EPA SW846-3060 **Prepared By:** JAMT

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-02	SB01_0-2	03/04/25
25B1548-03	SB01_5-7	03/04/25
25B1548-04	SB02_0-2	03/04/25
25B1548-05	SB02_5-7	03/04/25
25B1548-06	SB03_0-2	03/04/25

25B1548-07	SB03_5-7	03/04/25
25B1548-08	SB04_0-2	03/04/25
25B1548-09	SB04_5-7	03/04/25
25B1548-10	SODUP01_022725	03/04/25
BC50174-BLK1	Blank	03/04/25
BC50174-DUP1	Duplicate	03/04/25
BC50174-MS1	Matrix Spike	03/04/25
BC50174-MSD1	Matrix Spike Dup	03/04/25
BC50174-SRM1	Reference	03/04/25

Batch ID: BC50197 **Preparation Method:** EPA 3550C **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-02	SB01_0-2	03/05/25
25B1548-03	SB01_5-7	03/05/25
25B1548-04	SB02_0-2	03/05/25
25B1548-05	SB02_5-7	03/05/25
25B1548-06	SB03_0-2	03/05/25
25B1548-07	SB03_5-7	03/05/25
25B1548-08	SB04_0-2	03/05/25
25B1548-09	SB04_5-7	03/05/25
25B1548-10	SODUP01_022725	03/05/25
BC50197-BLK1	Blank	03/05/25
BC50197-BS2	LCS	03/05/25
BC50197-MS2	Matrix Spike	03/05/25
BC50197-MSD2	Matrix Spike Dup	03/05/25

Batch ID: BC50198 **Preparation Method:** EPA 3550C **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-02	SB01_0-2	03/05/25
25B1548-03	SB01_5-7	03/05/25
25B1548-04	SB02_0-2	03/05/25
25B1548-05	SB02_5-7	03/05/25
25B1548-06	SB03_0-2	03/05/25
25B1548-07	SB03_5-7	03/05/25
25B1548-08	SB04_0-2	03/05/25
25B1548-09	SB04_5-7	03/05/25
25B1548-10	SODUP01_022725	03/05/25
BC50198-BLK1	Blank	03/05/25
BC50198-BS1	LCS	03/05/25
BC50198-MS1	Matrix Spike	03/05/25
BC50198-MSD1	Matrix Spike Dup	03/05/25

Batch ID: BC50211 **Preparation Method:** EPA 3050B **Prepared By:** KMQ

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-02	SB01_0-2	03/04/25
25B1548-03	SB01_5-7	03/04/25
25B1548-04	SB02_0-2	03/04/25

25B1548-05	SB02_5-7	03/04/25
25B1548-06	SB03_0-2	03/04/25
25B1548-07	SB03_5-7	03/04/25
25B1548-08	SB04_0-2	03/04/25
25B1548-09	SB04_5-7	03/04/25
25B1548-10	SODUP01_022725	03/04/25
BC50211-BLK1	Blank	03/04/25
BC50211-DUP1	Duplicate	03/04/25
BC50211-MS1	Matrix Spike	03/04/25
BC50211-PS1	Post Spike	03/04/25
BC50211-SRM1	Reference	03/04/25

Batch ID: BC50237 **Preparation Method:** EPA 7473 soil **Prepared By:** DRS

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-02	SB01_0-2	03/04/25
25B1548-03	SB01_5-7	03/04/25
25B1548-04	SB02_0-2	03/04/25
25B1548-05	SB02_5-7	03/04/25
25B1548-06	SB03_0-2	03/04/25
25B1548-07	SB03_5-7	03/04/25
25B1548-08	SB04_0-2	03/04/25
25B1548-09	SB04_5-7	03/04/25
25B1548-10	SODUP01_022725	03/04/25
BC50237-BLK1	Blank	03/04/25
BC50237-DUP1	Duplicate	03/04/25
BC50237-MS1	Matrix Spike	03/04/25
BC50237-SRM1	Reference	03/04/25

Batch ID: BC50263 **Preparation Method:** Analysis Preparation Soil **Prepared By:** LJM

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-02	SB01_0-2	03/05/25
25B1548-03	SB01_5-7	03/05/25
25B1548-04	SB02_0-2	03/05/25
25B1548-05	SB02_5-7	03/05/25
25B1548-06	SB03_0-2	03/05/25
25B1548-07	SB03_5-7	03/05/25
25B1548-08	SB04_0-2	03/05/25
25B1548-09	SB04_5-7	03/05/25
BC50263-BLK1	Blank	03/05/25
BC50263-DUP1	Duplicate	03/05/25
BC50263-MS1	Matrix Spike	03/05/25
BC50263-MSD1	Matrix Spike Dup	03/05/25
BC50263-SRM1	Reference	03/05/25

Batch ID: BC50300 **Preparation Method:** Analysis Preparation Soil **Prepared By:** LJM

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-10	SODUP01_022725	03/05/25

BC50300-BLK1	Blank	03/05/25
BC50300-SRM1	Reference	03/05/25

Batch ID: BC50307 **Preparation Method:** EPA 5035A **Prepared By:** BMC

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-02	SB01_0-2	03/03/25
25B1548-03	SB01_5-7	03/03/25
25B1548-04	SB02_0-2	03/03/25
25B1548-05	SB02_5-7	03/03/25
25B1548-06	SB03_0-2	03/03/25
25B1548-07	SB03_5-7	03/03/25
25B1548-08	SB04_0-2	03/03/25
25B1548-09	SB04_5-7	03/03/25
25B1548-10	SODUP01_022725	03/03/25
BC50307-BLK1	Blank	03/03/25
BC50307-BS1	LCS	03/03/25
BC50307-BSD1	LCS Dup	03/03/25
BC50307-MS1	Matrix Spike	03/03/25
BC50307-MSD1	Matrix Spike Dup	03/03/25

Batch ID: BC50349 **Preparation Method:** Analysis Preparation **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-02	SB01_0-2	03/05/25
25B1548-03	SB01_5-7	03/05/25
25B1548-04	SB02_0-2	03/05/25
25B1548-05	SB02_5-7	03/05/25
25B1548-06	SB03_0-2	03/05/25
25B1548-07	SB03_5-7	03/05/25
25B1548-08	SB04_0-2	03/05/25
25B1548-09	SB04_5-7	03/05/25
25B1548-10	SODUP01_022725	03/05/25
BC50349-DUP1	Duplicate	03/05/25

Batch ID: BC50384 **Preparation Method:** EPA 3550C **Prepared By:** JAA

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-02	SB01_0-2	03/06/25
25B1548-03	SB01_5-7	03/06/25
25B1548-04	SB02_0-2	03/06/25
25B1548-05	SB02_5-7	03/06/25
25B1548-06	SB03_0-2	03/06/25
25B1548-06RE1	SB03_0-2	03/06/25
25B1548-07	SB03_5-7	03/06/25
25B1548-08	SB04_0-2	03/06/25
25B1548-08RE1	SB04_0-2	03/06/25
25B1548-09	SB04_5-7	03/06/25
25B1548-10	SODUP01_022725	03/06/25
BC50384-BLK1	Blank	03/06/25

BC50384-BS1	LCS	03/06/25
BC50384-MS1	Matrix Spike	03/06/25
BC50384-MSD1	Matrix Spike Dup	03/06/25

Batch ID: BC50386 **Preparation Method:** EPA 3550C **Prepared By:** JAA

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-02	SB01_0-2	03/06/25
25B1548-03	SB01_5-7	03/06/25
25B1548-04	SB02_0-2	03/06/25
25B1548-05	SB02_5-7	03/06/25
25B1548-06	SB03_0-2	03/06/25
25B1548-07	SB03_5-7	03/06/25
25B1548-08	SB04_0-2	03/06/25
BC50386-BLK1	Blank	03/06/25
BC50386-BS1	LCS	03/06/25
BC50386-MS1	Matrix Spike	03/06/25
BC50386-MSD1	Matrix Spike Dup	03/06/25

Batch ID: BC50415 **Preparation Method:** EPA 3550C/8151A **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-02	SB01_0-2	03/06/25
25B1548-03	SB01_5-7	03/06/25
25B1548-04	SB02_0-2	03/06/25
25B1548-05	SB02_5-7	03/06/25
25B1548-06	SB03_0-2	03/06/25
BC50415-BLK1	Blank	03/06/25
BC50415-BS1	LCS	03/06/25

Batch ID: BC50427 **Preparation Method:** EPA 3550C **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-09	SB04_5-7	03/06/25
25B1548-10	SODUP01_022725	03/06/25
BC50427-BLK1	Blank	03/06/25
BC50427-BS1	LCS	03/06/25
BC50427-MS1	Matrix Spike	03/06/25
BC50427-MSD1	Matrix Spike Dup	03/06/25

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50307 - EPA 5035A											
Blank (BC50307-BLK1) Blank									Prepared: 03/03/2025 Analyzed: 03/04/2025		
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50307 - EPA 5035A											
Blank (BC50307-BLK1) Blank								Prepared: 03/03/2025 Analyzed: 03/04/2025			
n-Butylbenzene	ND	0.0050	mg/kg wet								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*48.9*		*ug/L*	*50.0*		*97.9*	*77-125*				
Surrogate: SURR: Toluene-d8	*47.6*		*"*	*50.0*		*95.1*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*51.7*		*"*	*50.0*		*103*	*76-130*				
LCS (BC50307-BS1) LCS								Prepared: 03/03/2025 Analyzed: 03/04/2025			
1,1,1,2-Tetrachloroethane	45.4		ug/L	50.0		90.7	75-129				
1,1,1-Trichloroethane	48.8		"	50.0		97.6	71-137				
1,1,2,2-Tetrachloroethane	50.6		"	50.0		101	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	54.7		"	50.0		109	58-146				
1,1,2-Trichloroethane	50.4		"	50.0		101	83-123				
1,1-Dichloroethane	60.5		"	50.0		121	75-130				
1,1-Dichloroethylene	59.4		"	50.0		119	64-137				
1,2,3-Trichlorobenzene	43.3		"	50.0		86.6	81-140				
1,2,3-Trichloropropane	47.0		"	50.0		93.9	81-126				
1,2,4-Trichlorobenzene	43.0		"	50.0		85.9	80-141				
1,2,4-Trimethylbenzene	48.1		"	50.0		96.2	84-125				
1,2-Dibromo-3-chloropropane	46.2		"	50.0		92.4	74-142				
1,2-Dibromoethane	47.7		"	50.0		95.3	86-123				
1,2-Dichlorobenzene	46.0		"	50.0		92.0	85-122				
1,2-Dichloroethane	56.3		"	50.0		113	71-133				
1,2-Dichloropropane	55.9		"	50.0		112	81-122				
1,3,5-Trimethylbenzene	49.3		"	50.0		98.7	82-126				
1,3-Dichlorobenzene	45.4		"	50.0		90.9	84-124				
1,4-Dichlorobenzene	45.6		"	50.0		91.1	84-124				
1,4-Dioxane	986		"	1050		93.9	10-228				
2-Butanone	45.0		"	50.0		89.9	58-147				
2-Hexanone	38.8		"	50.0		77.5	70-139				
4-Methyl-2-pentanone	34.3		"	50.0		68.6	72-132	Low Bias			
Acetone	26.6		"	50.0		53.2	36-155				
Acrolein	52.2		"	50.0		104	10-238				
Acrylonitrile	62.2		"	50.0		124	66-141				
Benzene	59.3		"	50.0		119	77-127				
Bromochloromethane	57.5		"	50.0		115	74-129				
Bromodichloromethane	52.2		"	50.0		104	81-124				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50307 - EPA 5035A											
LCS (BC50307-BS1) LCS								Prepared: 03/03/2025 Analyzed: 03/04/2025			
Bromoform	47.8		ug/L	50.0		95.7	80-136				
Bromomethane	60.7		"	50.0		121	32-177				
Carbon disulfide	58.0		"	50.0		116	10-136				
Carbon tetrachloride	49.2		"	50.0		98.4	66-143				
Chlorobenzene	49.2		"	50.0		98.3	86-120				
Chloroethane	56.6		"	50.0		113	51-142				
Chloroform	56.0		"	50.0		112	76-131				
Chloromethane	48.2		"	50.0		96.5	49-132				
cis-1,2-Dichloroethylene	56.7		"	50.0		113	74-132				
cis-1,3-Dichloropropylene	44.8		"	50.0		89.7	81-129				
Cyclohexane	60.1		"	50.0		120	70-130				
Dibromochloromethane	50.6		"	50.0		101	10-200				
Dibromomethane	48.9		"	50.0		97.8	83-124				
Dichlorodifluoromethane	35.3		"	50.0		70.6	28-158				
Ethyl Benzene	52.1		"	50.0		104	84-125				
Hexachlorobutadiene	40.4		"	50.0		80.8	83-133	Low Bias			
Isopropylbenzene	49.2		"	50.0		98.3	81-127				
Methyl acetate	39.3		"	50.0		78.7	41-143				
Methyl tert-butyl ether (MTBE)	44.7		"	50.0		89.3	74-131				
Methylcyclohexane	49.4		"	50.0		98.7	70-130				
Methylene chloride	56.8		"	50.0		114	57-141				
n-Butylbenzene	49.9		"	50.0		99.7	80-130				
n-Propylbenzene	50.2		"	50.0		100	74-136				
o-Xylene	50.4		"	50.0		101	83-123				
p- & m- Xylenes	101		"	100		101	82-128				
p-Isopropyltoluene	49.7		"	50.0		99.3	85-125				
sec-Butylbenzene	49.0		"	50.0		98.1	83-125				
Styrene	51.7		"	50.0		103	86-126				
tert-Butyl alcohol (TBA)	159		"	250		63.5	70-130	Low Bias			
tert-Butylbenzene	42.0		"	50.0		83.9	80-127				
Tetrachloroethylene	40.6		"	50.0		81.2	80-129				
Toluene	51.6		"	50.0		103	85-121				
trans-1,2-Dichloroethylene	58.8		"	50.0		118	72-132				
trans-1,3-Dichloropropylene	40.1		"	50.0		80.2	78-132				
Trichloroethylene	50.7		"	50.0		101	84-123				
Trichlorofluoromethane	49.3		"	50.0		98.7	62-140				
Vinyl Chloride	53.1		"	50.0		106	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*48.0*		*"*	*50.0*		*95.9*	*77-125*				
Surrogate: SURR: Toluene-d8	*48.4*		*"*	*50.0*		*96.7*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*50.9*		*"*	*50.0*		*102*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50307 - EPA 5035A											
LCS Dup (BC50307-BSD1) LCS Dup								Prepared: 03/03/2025 Analyzed: 03/04/2025			
1,1,1,2-Tetrachloroethane	48.3		ug/L	50.0		96.6	75-129		6.28	30	
1,1,1-Trichloroethane	52.7		"	50.0		105	71-137		7.76	30	
1,1,2,2-Tetrachloroethane	55.8		"	50.0		112	79-129		9.83	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	57.8		"	50.0		116	58-146		5.67	30	
1,1,2-Trichloroethane	54.4		"	50.0		109	83-123		7.73	30	
1,1-Dichloroethane	64.7		"	50.0		129	75-130		6.71	30	
1,1-Dichloroethylene	65.8		"	50.0		132	64-137		10.2	30	
1,2,3-Trichlorobenzene	44.5		"	50.0		89.1	81-140		2.80	30	
1,2,3-Trichloropropane	51.8		"	50.0		104	81-126		9.86	30	
1,2,4-Trichlorobenzene	44.4		"	50.0		88.8	80-141		3.34	30	
1,2,4-Trimethylbenzene	50.7		"	50.0		101	84-125		5.34	30	
1,2-Dibromo-3-chloropropane	49.1		"	50.0		98.2	74-142		6.11	30	
1,2-Dibromoethane	52.6		"	50.0		105	86-123		9.89	30	
1,2-Dichlorobenzene	49.1		"	50.0		98.2	85-122		6.44	30	
1,2-Dichloroethane	61.7		"	50.0		123	71-133		9.14	30	
1,2-Dichloropropane	59.5		"	50.0		119	81-122		6.31	30	
1,3,5-Trimethylbenzene	52.0		"	50.0		104	82-126		5.21	30	
1,3-Dichlorobenzene	47.4		"	50.0		94.7	84-124		4.14	30	
1,4-Dichlorobenzene	47.6		"	50.0		95.3	84-124		4.46	30	
1,4-Dioxane	1100		"	1050		105	10-228		11.0	30	
2-Butanone	49.6		"	50.0		99.3	58-147		9.89	30	
2-Hexanone	43.9		"	50.0		87.8	70-139		12.4	30	
4-Methyl-2-pentanone	37.3		"	50.0		74.6	72-132		8.29	30	
Acetone	29.5		"	50.0		59.0	36-155		10.4	30	
Acrolein	57.9		"	50.0		116	10-238		10.4	30	
Acrylonitrile	65.8		"	50.0		132	66-141		5.59	30	
Benzene	65.1		"	50.0		130	77-127	High Bias	9.42	30	
Bromochloromethane	62.1		"	50.0		124	74-129		7.66	30	
Bromodichloromethane	56.7		"	50.0		113	81-124		8.24	30	
Bromoform	51.5		"	50.0		103	80-136		7.37	30	
Bromomethane	62.8		"	50.0		126	32-177		3.27	30	
Carbon disulfide	63.2		"	50.0		126	10-136		8.56	30	
Carbon tetrachloride	52.5		"	50.0		105	66-143		6.51	30	
Chlorobenzene	52.6		"	50.0		105	86-120		6.84	30	
Chloroethane	59.6		"	50.0		119	51-142		5.14	30	
Chloroform	60.3		"	50.0		121	76-131		7.27	30	
Chloromethane	50.9		"	50.0		102	49-132		5.37	30	
cis-1,2-Dichloroethylene	61.5		"	50.0		123	74-132		8.02	30	
cis-1,3-Dichloropropylene	48.2		"	50.0		96.4	81-129		7.18	30	
Cyclohexane	65.1		"	50.0		130	70-130		8.00	30	
Dibromochloromethane	53.7		"	50.0		107	10-200		5.81	30	
Dibromomethane	53.1		"	50.0		106	83-124		8.29	30	
Dichlorodifluoromethane	34.0		"	50.0		68.0	28-158		3.81	30	
Ethyl Benzene	55.0		"	50.0		110	84-125		5.43	30	
Hexachlorobutadiene	42.3		"	50.0		84.7	83-133		4.74	30	
Isopropylbenzene	51.8		"	50.0		104	81-127		5.27	30	
Methyl acetate	43.6		"	50.0		87.2	41-143		10.3	30	
Methyl tert-butyl ether (MTBE)	49.3		"	50.0		98.6	74-131		9.86	30	
Methylcyclohexane	52.4		"	50.0		105	70-130		5.94	30	
Methylene chloride	61.2		"	50.0		122	57-141		7.47	30	
n-Butylbenzene	51.0		"	50.0		102	80-130		2.30	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50307 - EPA 5035A											
LCS Dup (BC50307-BSD1) LCS Dup								Prepared: 03/03/2025 Analyzed: 03/04/2025			
n-Propylbenzene	52.8		ug/L	50.0		106	74-136		4.97	30	
o-Xylene	53.0		"	50.0		106	83-123		5.13	30	
p- & m- Xylenes	107		"	100		107	82-128		5.49	30	
p-Isopropyltoluene	52.3		"	50.0		105	85-125		5.25	30	
sec-Butylbenzene	52.1		"	50.0		104	83-125		6.15	30	
Styrene	55.0		"	50.0		110	86-126		6.09	30	
tert-Butyl alcohol (TBA)	186		"	250		74.5	70-130		15.9	30	
tert-Butylbenzene	44.2		"	50.0		88.4	80-127		5.22	30	
Tetrachloroethylene	42.5		"	50.0		84.9	80-129		4.45	30	
Toluene	55.2		"	50.0		110	85-121		6.57	30	
trans-1,2-Dichloroethylene	64.6		"	50.0		129	72-132		9.49	30	
trans-1,3-Dichloropropylene	43.2		"	50.0		86.5	78-132		7.49	30	
Trichloroethylene	53.3		"	50.0		107	84-123		5.13	30	
Trichlorofluoromethane	51.5		"	50.0		103	62-140		4.26	30	
Vinyl Chloride	56.2		"	50.0		112	52-130		5.75	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*46.7*		*"*	*50.0*		*93.5*	*77-125*				
Surrogate: SURR: Toluene-d8	*47.2*		*"*	*50.0*		*94.4*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*50.0*		*"*	*50.0*		*100*	*76-130*				
Matrix Spike (BC50307-MS1) Matrix Spike *Source sample: 25B1548-08 (SB04_0-2)								Prepared: 03/03/2025 Analyzed: 03/04/2025			
1,1,1,2-Tetrachloroethane	38.9		ug/L	50.0	0.00	77.8	15-161				
1,1,1-Trichloroethane	49.7		"	50.0	0.00	99.4	42-145				
1,1,2,2-Tetrachloroethane	41.3		"	50.0	0.00	82.6	16-167				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	57.8		"	50.0	0.00	116	11-160				
1,1,2-Trichloroethane	46.8		"	50.0	0.00	93.5	44-145				
1,1-Dichloroethane	60.8		"	50.0	0.00	122	46-142				
1,1-Dichloroethylene	59.6		"	50.0	0.00	119	30-153				
1,2,3-Trichlorobenzene	19.5		"	50.0	0.00	39.0	10-157				
1,2,3-Trichloropropane	40.9		"	50.0	0.00	81.9	38-155				
1,2,4-Trichlorobenzene	19.8		"	50.0	0.00	39.5	10-151				
1,2,4-Trimethylbenzene	35.1		"	50.0	0.00	70.3	10-170				
1,2-Dibromo-3-chloropropane	31.5		"	50.0	0.00	62.9	36-138				
1,2-Dibromoethane	40.7		"	50.0	0.00	81.4	40-142				
1,2-Dichlorobenzene	28.6		"	50.0	0.00	57.2	10-147				
1,2-Dichloroethane	57.8		"	50.0	0.00	116	48-133				
1,2-Dichloropropane	51.9		"	50.0	0.00	104	47-141				
1,3,5-Trimethylbenzene	37.2		"	50.0	0.00	74.4	10-150				
1,3-Dichlorobenzene	28.0		"	50.0	0.00	56.0	10-144				
1,4-Dichlorobenzene	27.7		"	50.0	0.00	55.5	10-160				
1,4-Dioxane	999		"	1050	0.00	95.1	10-191				
2-Butanone	32.4		"	50.0	0.00	64.8	10-189				
2-Hexanone	25.8		"	50.0	0.00	51.6	10-181				
4-Methyl-2-pentanone	31.3		"	50.0	0.00	62.6	10-166				
Acetone	20.0		"	50.0	0.00	40.0	10-196				
Acrolein	0.00		"	50.0	0.00		10-192	Low Bias			
Acrylonitrile	38.1		"	50.0	0.00	76.2	13-161				
Benzene	56.5		"	50.0	0.00	113	43-139				
Bromochloromethane	57.1		"	50.0	0.00	114	38-145				
Bromodichloromethane	46.7		"	50.0	0.00	93.4	38-147				
Bromoform	35.8		"	50.0	0.00	71.6	29-156				
Bromomethane	45.2		"	50.0	0.00	90.3	10-166				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50307 - EPA 5035A											
Matrix Spike (BC50307-MS1) Matrix Spike *Source sample: 25B1548-08 (SB04_0-2)								Prepared: 03/03/2025 Analyzed: 03/04/2025			
Carbon disulfide	47.5		ug/L	50.0	0.00	95.1	10-131				
Carbon tetrachloride	48.8		"	50.0	0.00	97.5	35-145				
Chlorobenzene	38.7		"	50.0	0.00	77.5	21-154				
Chloroethane	57.6		"	50.0	0.00	115	15-160				
Chloroform	57.0		"	50.0	0.00	114	47-142				
Chloromethane	45.0		"	50.0	0.00	89.9	10-159				
cis-1,2-Dichloroethylene	52.2		"	50.0	0.00	104	42-144				
cis-1,3-Dichloropropylene	33.6		"	50.0	0.00	67.2	18-159				
Cyclohexane	60.5		"	50.0	0.00	121	70-130				
Dibromochloromethane	42.2		"	50.0	0.00	84.3	10-179				
Dibromomethane	47.7		"	50.0	0.00	95.4	47-143				
Dichlorodifluoromethane	41.6		"	50.0	0.00	83.1	10-145				
Ethyl Benzene	43.8		"	50.0	0.00	87.5	11-158				
Hexachlorobutadiene	23.5		"	50.0	0.00	47.1	10-158				
Isopropylbenzene	41.1		"	50.0	0.00	82.2	10-162				
Methyl acetate	21.5		"	50.0	0.00	43.0	10-149				
Methyl tert-butyl ether (MTBE)	48.9		"	50.0	0.00	97.8	42-152				
Methylcyclohexane	46.7		"	50.0	0.00	93.4	70-130				
Methylene chloride	58.7		"	50.0	0.00	117	28-151				
n-Butylbenzene	33.2		"	50.0	0.00	66.4	10-162				
n-Propylbenzene	39.1		"	50.0	0.00	78.3	10-155				
o-Xylene	41.1		"	50.0	0.00	82.3	10-158				
p- & m- Xylenes	83.4		"	100	0.00	83.4	10-156				
p-Isopropyltoluene	37.3		"	50.0	0.00	74.7	10-147				
sec-Butylbenzene	38.8		"	50.0	0.00	77.7	10-157				
Styrene	37.4		"	50.0	0.00	74.7	13-171				
tert-Butyl alcohol (TBA)	152		"	250	0.00	60.8	34-179				
tert-Butylbenzene	34.8		"	50.0	0.00	69.6	10-160				
Tetrachloroethylene	34.3		"	50.0	0.00	68.5	30-167				
Toluene	44.0		"	50.0	0.00	88.0	21-160				
trans-1,2-Dichloroethylene	55.1		"	50.0	0.00	110	29-153				
trans-1,3-Dichloropropylene	28.5		"	50.0	0.00	56.9	18-155				
Trichloroethylene	44.2		"	50.0	0.00	88.5	24-169				
Trichlorofluoromethane	54.1		"	50.0	0.00	108	35-142				
Vinyl Chloride	53.2		"	50.0	0.00	106	12-160				
Surrogate: SURR: 1,2-Dichloroethane-d4	*49.4*		*"*	*50.0*		*98.8*	*77-125*				
Surrogate: SURR: Toluene-d8	*46.8*		*"*	*50.0*		*93.7*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*50.7*		*"*	*50.0*		*101*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50307 - EPA 5035A											
Matrix Spike Dup (BC50307- Matrix Spike Dup	*Source sample: 25B1548-08 (SB04_0-2)								Prepared: 03/03/2025 Analyzed: 03/04/2025		
1,1,1,2-Tetrachloroethane	44.3		ug/L	50.0	0.00	88.5	15-161		12.9	33	
1,1,1-Trichloroethane	63.3		"	50.0	0.00	127	42-145		24.1	30	
1,1,2,2-Tetrachloroethane	45.5		"	50.0	0.00	91.0	16-167		9.70	56	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	74.3		"	50.0	0.00	149	11-160		25.1	31	
1,1,2-Trichloroethane	49.1		"	50.0	0.00	98.2	44-145		4.84	40	
1,1-Dichloroethane	72.3		"	50.0	0.00	145	46-142	High Bias	17.3	36	
1,1-Dichloroethylene	74.0		"	50.0	0.00	148	30-153		21.6	31	
1,2,3-Trichlorobenzene	20.7		"	50.0	0.00	41.5	10-157		6.16	47	
1,2,3-Trichloropropane	43.9		"	50.0	0.00	87.9	38-155		7.07	48	
1,2,4-Trichlorobenzene	20.8		"	50.0	0.00	41.6	10-151		5.23	52	
1,2,4-Trimethylbenzene	38.4		"	50.0	0.00	76.7	10-170		8.76	242	
1,2-Dibromo-3-chloropropane	36.2		"	50.0	0.00	72.4	36-138		14.0	54	
1,2-Dibromoethane	39.7		"	50.0	0.00	79.4	40-142		2.54	39	
1,2-Dichlorobenzene	31.8		"	50.0	0.00	63.6	10-147		10.6	52	
1,2-Dichloroethane	57.3		"	50.0	0.00	115	48-133		0.712	32	
1,2-Dichloropropane	58.9		"	50.0	0.00	118	47-141		12.7	37	
1,3,5-Trimethylbenzene	41.7		"	50.0	0.00	83.3	10-150		11.3	62	
1,3-Dichlorobenzene	30.6		"	50.0	0.00	61.2	10-144		8.80	51	
1,4-Dichlorobenzene	28.9		"	50.0	0.00	57.7	10-160		3.99	52	
1,4-Dioxane	1140		"	1050	0.00	109	10-191		13.2	196	
2-Butanone	51.3		"	50.0	0.00	103	10-189		45.2	67	
2-Hexanone	40.1		"	50.0	0.00	80.2	10-181		43.4	60	
4-Methyl-2-pentanone	37.5		"	50.0	0.00	75.1	10-166		18.2	47	
Acetone	41.0		"	50.0	0.00	82.0	10-196		68.9	150	
Acrolein	18.7		"	50.0	0.00	37.4	10-192			128	
Acrylonitrile	64.2		"	50.0	0.00	128	13-161		51.0	48	Non-dir.
Benzene	70.4		"	50.0	0.00	141	43-139	High Bias	22.0	64	
Bromochloromethane	54.1		"	50.0	0.00	108	38-145		5.39	30	
Bromodichloromethane	52.2		"	50.0	0.00	104	38-147		11.1	37	
Bromoform	42.0		"	50.0	0.00	84.0	29-156		15.9	51	
Bromomethane	60.9		"	50.0	0.00	122	10-166		29.7	42	
Carbon disulfide	64.2		"	50.0	0.00	128	10-131		29.7	36	
Carbon tetrachloride	63.8		"	50.0	0.00	128	35-145		26.8	31	
Chlorobenzene	42.9		"	50.0	0.00	85.9	21-154		10.3	32	
Chloroethane	69.1		"	50.0	0.00	138	15-160		18.1	40	
Chloroform	65.6		"	50.0	0.00	131	47-142		13.9	29	
Chloromethane	54.6		"	50.0	0.00	109	10-159		19.5	31	
cis-1,2-Dichloroethylene	60.3		"	50.0	0.00	121	42-144		14.4	30	
cis-1,3-Dichloropropylene	37.3		"	50.0	0.00	74.6	18-159		10.4	39	
Cyclohexane	78.6		"	50.0	0.00	157	70-130	High Bias	26.0	30	
Dibromochloromethane	47.1		"	50.0	0.00	94.2	10-179		11.1	41	
Dibromomethane	41.3		"	50.0	0.00	82.7	47-143		14.3	41	
Dichlorodifluoromethane	55.5		"	50.0	0.00	111	10-145		28.7	34	
Ethyl Benzene	50.5		"	50.0	0.00	101	11-158		14.3	42	
Hexachlorobutadiene	24.4		"	50.0	0.00	48.9	10-158		3.83	45	
Isopropylbenzene	47.4		"	50.0	0.00	94.7	10-162		14.1	57	
Methyl acetate	56.7		"	50.0	0.00	113	10-149		90.0	64	Non-dir.
Methyl tert-butyl ether (MTBE)	52.9		"	50.0	0.00	106	42-152		7.78	47	
Methylcyclohexane	57.4		"	50.0	0.00	115	70-130		20.6	30	
Methylene chloride	60.4		"	50.0	0.00	121	28-151		2.89	49	
n-Butylbenzene	35.6		"	50.0	0.00	71.2	10-162		7.09	96	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50307 - EPA 5035A											
Matrix Spike Dup (BC50307-! Matrix Spike Dup				*Source sample: 25B1548-08 (SB04_0-2)					Prepared: 03/03/2025 Analyzed: 03/04/2025		
n-Propylbenzene	44.5		ug/L	50.0	0.00	89.0	10-155		12.8	56	
o-Xylene	46.8		"	50.0	0.00	93.5	10-158		12.8	51	
p- & m- Xylenes	94.8		"	100	0.00	94.8	10-156		12.7	47	
p-Isopropyltoluene	40.8		"	50.0	0.00	81.7	10-147		9.00	60	
sec-Butylbenzene	43.2		"	50.0	0.00	86.4	10-157		10.6	56	
Styrene	42.1		"	50.0	0.00	84.2	13-171		12.0	39	
tert-Butyl alcohol (TBA)	190		"	250	0.00	76.0	34-179		22.3	35	
tert-Butylbenzene	39.2		"	50.0	0.00	78.4	10-160		11.9	79	
Tetrachloroethylene	41.7		"	50.0	0.00	83.3	30-167		19.5	33	
Toluene	53.2		"	50.0	0.00	106	21-160		18.9	50	
trans-1,2-Dichloroethylene	62.0		"	50.0	0.00	124	29-153		11.9	30	
trans-1,3-Dichloropropylene	27.9		"	50.0	0.00	55.8	18-155		1.92	30	
Trichloroethylene	52.9		"	50.0	0.00	106	24-169		17.9	30	
Trichlorofluoromethane	69.3		"	50.0	0.00	139	35-142		24.6	30	
Vinyl Chloride	70.8		"	50.0	0.00	142	12-160		28.4	35	
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.0*		*"*	*50.0*		*102*	*77-125*				
Surrogate: SURR: Toluene-d8	*46.5*		*"*	*50.0*		*93.0*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*50.5*		*"*	*50.0*		*101*	*76-130*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50384 - EPA 3550C											
Blank (BC50384-BLK1) Blank									Prepared & Analyzed: 03/06/2025		
1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								
Caprolactam	ND	0.0830	"								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50384 - EPA 3550C											
Blank (BC50384-BLK1) Blank							Prepared & Analyzed: 03/06/2025				
Dibenzofuran	ND	0.0416	mg/kg wet								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Pyridine	ND	0.166	"								
Surrogate: SURR: 2-Fluorophenol	*1.08*		*"*	*1.66*		*64.8*	*30-108*				
Surrogate: SURR: Phenol-d6	*0.879*		*"*	*1.66*		*52.9*	*30-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.584*		*"*	*0.831*		*70.3*	*30-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.672*		*"*	*0.831*		*81.0*	*30-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.64*		*"*	*1.66*		*98.8*	*30-110*				
Surrogate: SURR: Terphenyl-d14	*0.703*		*"*	*0.831*		*84.6*	*30-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50384 - EPA 3550C											
LCS (BC50384-BS1) LCS							Prepared & Analyzed: 03/06/2025				
1,1-Biphenyl	0.594	0.0416	mg/kg wet	0.831		71.6	70-111				
1,2,4,5-Tetrachlorobenzene	0.528	0.0830	"	0.831		63.6	70-130	Low Bias			
1,2-Diphenylhydrazine (as Azobenzene)	0.648	0.0416	"	0.831		78.0	17-137				
2,3,4,6-Tetrachlorophenol	0.558	0.0830	"	0.831		67.2	70-130	Low Bias			
2,4,5-Trichlorophenol	0.568	0.0416	"	0.831		68.4	70-118	Low Bias			
2,4,6-Trichlorophenol	0.588	0.0416	"	0.831		70.8	70-120				
2,4-Dichlorophenol	0.598	0.0416	"	0.831		72.0	70-127				
2,4-Dimethylphenol	0.630	0.0416	"	0.831		75.9	70-130				
2,4-Dinitrophenol	0.359	0.0830	"	0.831		43.2	20-160				
2,4-Dinitrotoluene	0.613	0.0416	"	0.831		73.8	70-130				
2,6-Dinitrotoluene	0.620	0.0416	"	0.831		74.6	70-128				
2-Chloronaphthalene	0.577	0.0416	"	0.831		69.4	70-117	Low Bias			
2-Chlorophenol	0.560	0.0416	"	0.831		67.4	70-113	Low Bias			
2-Methylnaphthalene	0.556	0.0416	"	0.831		67.0	70-130	Low Bias			
2-Methylphenol	0.601	0.0416	"	0.831		72.4	70-130				
2-Nitroaniline	0.585	0.0830	"	0.831		70.4	70-130				
2-Nitrophenol	0.546	0.0416	"	0.831		65.7	70-129	Low Bias			
3- & 4-Methylphenols	0.404	0.0416	"	0.831		48.7	29-103				
3,3-Dichlorobenzidine	0.538	0.0416	"	0.831		64.8	70-130	Low Bias			
3-Nitroaniline	0.421	0.0830	"	0.831		50.7	70-130	Low Bias			
4,6-Dinitro-2-methylphenol	0.515	0.0830	"	0.831		62.0	70-130	Low Bias			
4-Bromophenyl phenyl ether	0.509	0.0416	"	0.831		61.3	70-120	Low Bias			
4-Chloro-3-methylphenol	0.614	0.0416	"	0.831		73.9	70-129				
4-Chloroaniline	0.398	0.0416	"	0.831		48.0	70-130	Low Bias			
4-Chlorophenyl phenyl ether	0.590	0.0416	"	0.831		71.0	70-124				
4-Nitroaniline	0.522	0.0830	"	0.831		62.8	70-128	Low Bias			
4-Nitrophenol	0.762	0.0830	"	0.831		91.7	20-141				
Acenaphthene	0.587	0.0416	"	0.831		70.7	70-121				
Acenaphthylene	0.614	0.0416	"	0.831		73.9	70-115				
Acetophenone	0.571	0.0416	"	0.831		68.8	70-112	Low Bias			
Aniline	0.450	0.166	"	0.831		54.2	10-119				
Anthracene	0.638	0.0416	"	0.831		76.8	70-118				
Atrazine	0.510	0.0416	"	0.831		61.4	70-112	Low Bias			
Benzaldehyde	0.519	0.0416	"	0.831		62.5	21-100				
Benzo(a)anthracene	0.650	0.0416	"	0.831		78.3	70-122				
Benzo(a)pyrene	0.669	0.0416	"	0.831		80.6	70-130				
Benzo(b)fluoranthene	0.680	0.0416	"	0.831		81.9	70-130				
Benzo(g,h,i)perylene	0.671	0.0416	"	0.831		80.8	70-130				
Benzo(k)fluoranthene	0.671	0.0416	"	0.831		80.8	70-128				
Benzoic acid	0.606	0.0416	"	0.831		72.9	10-140				
Benzyl alcohol	0.616	0.0416	"	0.831		74.2	30-115				
Benzyl butyl phthalate	0.654	0.0416	"	0.831		78.8	70-126				
Bis(2-chloroethoxy)methane	0.615	0.0416	"	0.831		74.1	70-130				
Bis(2-chloroethyl)ether	0.541	0.0416	"	0.831		65.1	70-125	Low Bias			
Bis(2-chloroisopropyl)ether	0.472	0.0416	"	0.831		56.8	70-130	Low Bias			
Bis(2-ethylhexyl)phthalate	0.681	0.0416	"	0.831		82.0	70-130				
Caprolactam	0.660	0.0830	"	0.831		79.4	20-127				
Carbazole	0.574	0.0416	"	0.831		69.2	70-123	Low Bias			
Chrysene	0.674	0.0416	"	0.831		81.2	70-123				
Dibenzo(a,h)anthracene	0.655	0.0416	"	0.831		78.9	70-130				
Dibenzofuran	0.587	0.0416	"	0.831		70.6	70-121				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50384 - EPA 3550C											
LCS (BC50384-BS1) LCS							Prepared & Analyzed: 03/06/2025				
Diethyl phthalate	0.625	0.0416	mg/kg wet	0.831		75.2	70-116				
Dimethyl phthalate	0.620	0.0416	"	0.831		74.6	70-124				
Di-n-butyl phthalate	0.676	0.0416	"	0.831		81.4	70-116				
Di-n-octyl phthalate	0.721	0.0416	"	0.831		86.8	70-130				
Diphenylamine	0.616	0.0830	"	0.831		74.2	40-140				
Fluoranthene	0.634	0.0416	"	0.831		76.4	70-122				
Fluorene	0.604	0.0416	"	0.831		72.7	70-123				
Hexachlorobenzene	0.578	0.0416	"	0.831		69.6	70-124	Low Bias			
Hexachlorobutadiene	0.624	0.0416	"	0.831		75.1	70-130				
Hexachlorocyclopentadiene	0.633	0.0416	"	0.831		76.2	20-129				
Hexachloroethane	0.591	0.0416	"	0.831		71.1	28-108				
Indeno(1,2,3-cd)pyrene	0.676	0.0416	"	0.831		81.4	70-130				
Isophorone	0.639	0.0416	"	0.831		77.0	70-130				
Naphthalene	0.609	0.0416	"	0.831		73.4	70-124				
Nitrobenzene	0.635	0.0416	"	0.831		76.5	70-130				
N-Nitrosodimethylamine	0.722	0.0416	"	0.831		86.9	11-129				
N-nitroso-di-n-propylamine	0.594	0.0416	"	0.831		71.5	70-119				
N-Nitrosodiphenylamine	0.611	0.0416	"	0.831		73.5	70-130				
Pentachlorophenol	0.0322	0.0416	"	0.831		3.88	20-139	Low Bias			
Phenanthrene	0.625	0.0416	"	0.831		75.3	70-123				
Phenol	0.530	0.0416	"	0.831		63.8	23-115				
Pyrene	0.633	0.0416	"	0.831		76.2	70-130				
Pyridine	0.604	0.166	"	0.831		72.7	10-91				
Surrogate: SURR: 2-Fluorophenol	*1.13*		*"*	*1.66*		*68.2*	*30-108*				
Surrogate: SURR: Phenol-d6	*1.12*		*"*	*1.66*		*67.6*	*30-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.526*		*"*	*0.831*		*63.3*	*30-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.503*		*"*	*0.831*		*60.6*	*30-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.943*		*"*	*1.66*		*56.8*	*30-110*				
Surrogate: SURR: Terphenyl-d14	*0.543*		*"*	*0.831*		*65.3*	*30-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50384 - EPA 3550C											
Matrix Spike (BC50384-MS1) Matrix Spike	*Source sample: 25B1548-08 (SB04_0-2)							Prepared & Analyzed: 03/06/2025			
1,1-Biphenyl	0.782	0.0921	mg/kg dry	0.920	ND	85.0	70-130				
1,2,4,5-Tetrachlorobenzene	0.955	0.184	"	0.920	ND	104	70-130				
1,2-Diphenylhydrazine (as Azobenzene)	0.545	0.0921	"	0.920	ND	59.2	10-144				
2,3,4,6-Tetrachlorophenol	0.765	0.184	"	0.920	ND	83.1	70-130				
2,4,5-Trichlorophenol	0.945	0.0921	"	0.920	ND	103	70-127				
2,4,6-Trichlorophenol	1.02	0.0921	"	0.920	ND	111	70-130				
2,4-Dichlorophenol	1.12	0.0921	"	0.920	ND	122	70-128				
2,4-Dimethylphenol	0.884	0.0921	"	0.920	ND	96.0	70-130				
2,4-Dinitrophenol	0.112	0.184	"	0.920	ND	12.2	20-160	Low Bias			
2,4-Dinitrotoluene	0.927	0.0921	"	0.920	ND	101	70-130				
2,6-Dinitrotoluene	0.823	0.0921	"	0.920	ND	89.4	70-130				
2-Chloronaphthalene	0.802	0.0921	"	0.920	ND	87.1	70-129				
2-Chlorophenol	0.711	0.0921	"	0.920	ND	77.2	70-116				
2-Methylnaphthalene	0.828	0.0921	"	0.920	ND	90.0	70-130				
2-Methylphenol	0.610	0.0921	"	0.920	ND	66.2	70-130	Low Bias			
2-Nitroaniline	0.714	0.184	"	0.920	ND	77.6	70-130				
2-Nitrophenol	0.857	0.0921	"	0.920	ND	93.1	70-129				
3- & 4-Methylphenols	0.515	0.0921	"	0.920	ND	55.9	20-123				
3,3-Dichlorobenzidine	0.814	0.0921	"	0.920	ND	88.5	70-155				
3-Nitroaniline	0.681	0.184	"	0.920	ND	74.0	70-130				
4,6-Dinitro-2-methylphenol	0.284	0.184	"	0.920	ND	30.8	70-130	Low Bias			
4-Bromophenyl phenyl ether	1.09	0.0921	"	0.920	ND	119	70-128				
4-Chloro-3-methylphenol	0.913	0.0921	"	0.920	ND	99.2	70-130				
4-Chloroaniline	0.652	0.0921	"	0.920	ND	70.8	70-130				
4-Chlorophenyl phenyl ether	1.04	0.0921	"	0.920	ND	113	70-130				
4-Nitroaniline	0.748	0.184	"	0.920	ND	81.3	70-130				
4-Nitrophenol	0.581	0.184	"	0.920	ND	63.1	20-137				
Acenaphthene	0.718	0.0921	"	0.920	0.101	67.0	70-130	Low Bias			
Acenaphthylene	0.738	0.0921	"	0.920	0.102	69.1	70-130	Low Bias			
Acetophenone	0.584	0.0921	"	0.920	ND	63.4	70-116	Low Bias			
Aniline	0.349	0.369	"	0.920	ND	37.9	10-123				
Anthracene	0.894	0.0921	"	0.920	0.370	56.9	70-130	Low Bias			
Atrazine	0.915	0.0921	"	0.920	ND	99.4	70-115				
Benzaldehyde	0.557	0.0921	"	0.920	ND	60.5	20-125				
Benzo(a)anthracene	0.919	0.0921	"	0.920	1.06	NR	70-130	Low Bias			
Benzo(a)pyrene	0.959	0.0921	"	0.920	1.05	NR	70-130	Low Bias			
Benzo(b)fluoranthene	0.957	0.0921	"	0.920	1.01	NR	70-130	Low Bias			
Benzo(g,h,i)perylene	0.909	0.0921	"	0.920	0.568	37.0	70-130	Low Bias			
Benzo(k)fluoranthene	0.930	0.0921	"	0.920	0.934	NR	70-130	Low Bias			
Benzoic acid	0.135	0.0921	"	0.920	ND	14.6	10-166				
Benzyl alcohol	0.588	0.0921	"	0.920	ND	63.8	12-124				
Benzyl butyl phthalate	0.613	0.0921	"	0.920	ND	66.6	70-130	Low Bias			
Bis(2-chloroethoxy)methane	0.630	0.0921	"	0.920	ND	68.5	70-130	Low Bias			
Bis(2-chloroethyl)ether	0.529	0.0921	"	0.920	ND	57.5	70-119	Low Bias			
Bis(2-chloroisopropyl)ether	0.308	0.0921	"	0.920	ND	33.4	70-130	Low Bias			
Bis(2-ethylhexyl)phthalate	0.616	0.0921	"	0.920	ND	66.9	70-130	Low Bias			
Caprolactam	0.832	0.184	"	0.920	ND	90.4	20-132				
Carbazole	0.796	0.0921	"	0.920	0.104	75.2	70-130				
Chrysene	0.941	0.0921	"	0.920	1.09	NR	70-130	Low Bias			
Dibenzo(a,h)anthracene	0.905	0.0921	"	0.920	0.183	78.4	70-130				
Dibenzofuran	0.878	0.0921	"	0.920	0.0763	87.2	70-130				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50384 - EPA 3550C											
Matrix Spike (BC50384-MS1) Matrix Spike *Source sample: 25B1548-08 (SB04_0-2)								Prepared & Analyzed: 03/06/2025			
Diethyl phthalate	0.813	0.0921	mg/kg dry	0.920	ND	88.3	70-120				
Dimethyl phthalate	0.848	0.0921	"	0.920	ND	92.1	70-130				
Di-n-butyl phthalate	0.683	0.0921	"	0.920	ND	74.2	70-130				
Di-n-octyl phthalate	0.619	0.0921	"	0.920	ND	67.3	70-130	Low Bias			
Diphenylamine	0.951	0.184	"	0.920	ND	103	40-140				
Fluoranthene	1.08	0.0921	"	0.920	3.02	NR	70-130	Low Bias			
Fluorene	0.871	0.0921	"	0.920	0.118	81.8	70-130				
Hexachlorobenzene	0.811	0.0921	"	0.920	ND	88.1	70-130				
Hexachlorobutadiene	1.52	0.0921	"	0.920	ND	166	70-130	High Bias			
Hexachlorocyclopentadiene	ND	0.0921	"	0.920	ND		20-106	Low Bias			
Hexachloroethane	0.613	0.0921	"	0.920	ND	66.6	20-110				
Indeno(1,2,3-cd)pyrene	1.07	0.0921	"	0.920	0.624	49.0	70-130	Low Bias			
Isophorone	0.705	0.0921	"	0.920	ND	76.6	70-130				
Naphthalene	0.802	0.0921	"	0.920	ND	87.1	70-130				
Nitrobenzene	0.772	0.0921	"	0.920	ND	83.8	70-130				
N-Nitrosodimethylamine	0.393	0.0921	"	0.920	ND	42.7	10-126				
N-nitroso-di-n-propylamine	0.510	0.0921	"	0.920	ND	55.4	70-125	Low Bias			
N-Nitrosodiphenylamine	0.915	0.0921	"	0.920	ND	99.4	70-130				
Pentachlorophenol	0.248	0.0921	"	0.920	ND	27.0	20-153				
Phenanthrene	0.905	0.0921	"	0.920	1.76	NR	70-130	Low Bias			
Phenol	0.580	0.0921	"	0.920	ND	63.0	20-126				
Pyrene	0.836	0.0921	"	0.920	1.84	NR	70-130	Low Bias			
Pyridine	0.315	0.369	"	0.920	ND	34.2	10-83				
Surrogate: SURR: 2-Fluorophenol	*1.11*		*"*	*1.84*		*60.4*	*30-108*				
Surrogate: SURR: Phenol-d6	*1.13*		*"*	*1.84*		*61.4*	*30-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.746*		*"*	*0.920*		*81.0*	*30-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.837*		*"*	*0.920*		*91.0*	*30-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*2.22*		*"*	*1.84*		*120*	*30-110*				
Surrogate: SURR: Terphenyl-d14	*0.835*		*"*	*0.920*		*90.7*	*30-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50384 - EPA 3550C											
Matrix Spike Dup (BC50384-M Matrix Spike Dup	*Source sample: 25B1548-08 (SB04_0-2)							Prepared & Analyzed: 03/06/2025			
1,1-Biphenyl	0.685	0.0921	mg/kg dry	0.920	ND	74.4	70-130		13.3	30	
1,2,4,5-Tetrachlorobenzene	0.815	0.184	"	0.920	ND	88.6	70-130		15.8	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.412	0.0921	"	0.920	ND	44.7	10-144		27.9	30	
2,3,4,6-Tetrachlorophenol	0.599	0.184	"	0.920	ND	65.0	70-130	Low Bias	24.4	30	
2,4,5-Trichlorophenol	0.938	0.0921	"	0.920	ND	102	70-127		0.704	30	
2,4,6-Trichlorophenol	0.894	0.0921	"	0.920	ND	97.1	70-130		13.2	30	
2,4-Dichlorophenol	0.915	0.0921	"	0.920	ND	99.4	70-128		20.1	30	
2,4-Dimethylphenol	0.735	0.0921	"	0.920	ND	79.8	70-130		18.4	30	
2,4-Dinitrophenol	0.0979	0.184	"	0.920	ND	10.6	20-160	Low Bias	13.3	30	
2,4-Dinitrotoluene	0.806	0.0921	"	0.920	ND	87.5	70-130		14.0	30	
2,6-Dinitrotoluene	0.742	0.0921	"	0.920	ND	80.6	70-130		10.4	30	
2-Chloronaphthalene	0.699	0.0921	"	0.920	ND	75.9	70-129		13.7	30	
2-Chlorophenol	0.579	0.0921	"	0.920	ND	62.9	70-116	Low Bias	20.4	30	
2-Methylnaphthalene	0.657	0.0921	"	0.920	ND	71.4	70-130		23.1	30	
2-Methylphenol	0.496	0.0921	"	0.920	ND	53.9	70-130	Low Bias	20.5	30	
2-Nitroaniline	0.609	0.184	"	0.920	ND	66.2	70-130	Low Bias	15.9	30	
2-Nitrophenol	0.711	0.0921	"	0.920	ND	77.2	70-129		18.7	30	
3- & 4-Methylphenols	0.452	0.0921	"	0.920	ND	49.1	20-123		12.9	30	
3,3-Dichlorobenzidine	0.656	0.0921	"	0.920	ND	71.3	70-155		21.5	30	
3-Nitroaniline	0.604	0.184	"	0.920	ND	65.6	70-130	Low Bias	12.0	30	
4,6-Dinitro-2-methylphenol	0.219	0.184	"	0.920	ND	23.8	70-130	Low Bias	25.5	30	
4-Bromophenyl phenyl ether	0.821	0.0921	"	0.920	ND	89.2	70-128		28.4	30	
4-Chloro-3-methylphenol	0.758	0.0921	"	0.920	ND	82.4	70-130		18.5	30	
4-Chloroaniline	0.523	0.0921	"	0.920	ND	56.8	70-130	Low Bias	21.9	30	
4-Chlorophenyl phenyl ether	0.945	0.0921	"	0.920	ND	103	70-130		9.78	30	
4-Nitroaniline	0.666	0.184	"	0.920	ND	72.3	70-130		11.7	30	
4-Nitrophenol	0.506	0.184	"	0.920	ND	55.0	20-137		13.8	30	
Acenaphthene	0.599	0.0921	"	0.920	0.101	54.1	70-130	Low Bias	18.0	30	
Acenaphthylene	0.681	0.0921	"	0.920	0.102	62.9	70-130	Low Bias	7.99	30	
Acetophenone	0.457	0.0921	"	0.920	ND	49.6	70-116	Low Bias	24.5	30	
Aniline	0.248	0.369	"	0.920	ND	27.0	10-123		33.8	30	Non-dir.
Anthracene	0.710	0.0921	"	0.920	0.370	36.9	70-130	Low Bias	23.0	30	
Atrazine	0.720	0.0921	"	0.920	ND	78.2	70-115		23.9	30	
Benzaldehyde	0.454	0.0921	"	0.920	ND	49.4	20-125		20.2	30	
Benzo(a)anthracene	0.772	0.0921	"	0.920	1.06	NR	70-130	Low Bias	17.3	30	
Benzo(a)pyrene	0.738	0.0921	"	0.920	1.05	NR	70-130	Low Bias	26.1	30	
Benzo(b)fluoranthene	0.767	0.0921	"	0.920	1.01	NR	70-130	Low Bias	22.1	30	
Benzo(g,h,i)perylene	0.797	0.0921	"	0.920	0.568	24.8	70-130	Low Bias	13.1	30	
Benzo(k)fluoranthene	0.774	0.0921	"	0.920	0.934	NR	70-130	Low Bias	18.3	30	
Benzoic acid	0.0795	0.0921	"	0.920	ND	8.64	10-166	Low Bias	51.5	30	Non-dir.
Benzyl alcohol	0.450	0.0921	"	0.920	ND	48.9	12-124		26.5	30	
Benzyl butyl phthalate	0.474	0.0921	"	0.920	ND	51.5	70-130	Low Bias	25.5	30	
Bis(2-chloroethoxy)methane	0.507	0.0921	"	0.920	ND	55.1	70-130	Low Bias	21.6	30	
Bis(2-chloroethyl)ether	0.448	0.0921	"	0.920	ND	48.6	70-119	Low Bias	16.7	30	
Bis(2-chloroisopropyl)ether	0.253	0.0921	"	0.920	ND	27.5	70-130	Low Bias	19.4	30	
Bis(2-ethylhexyl)phthalate	0.489	0.0921	"	0.920	ND	53.1	70-130	Low Bias	22.9	30	
Caprolactam	0.624	0.184	"	0.920	ND	67.8	20-132		28.6	30	
Carbazole	0.647	0.0921	"	0.920	0.104	59.0	70-130	Low Bias	20.7	30	
Chrysene	0.732	0.0921	"	0.920	1.09	NR	70-130	Low Bias	25.0	30	
Dibenzo(a,h)anthracene	0.787	0.0921	"	0.920	0.183	65.6	70-130	Low Bias	13.9	30	
Dibenzofuran	0.745	0.0921	"	0.920	0.0763	72.7	70-130		16.4	30	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50384 - EPA 3550C											
Matrix Spike Dup (BC50384-M Matrix Spike Dup				*Source sample: 25B1548-08 (SB04_0-2)				Prepared & Analyzed: 03/06/2025			
Diethyl phthalate	0.659	0.0921	mg/kg dry	0.920	ND	71.6	70-120		20.9	30	
Dimethyl phthalate	0.714	0.0921	"	0.920	ND	77.5	70-130		17.2	30	
Di-n-butyl phthalate	0.566	0.0921	"	0.920	ND	61.4	70-130	Low Bias	18.8	30	
Di-n-octyl phthalate	0.490	0.0921	"	0.920	ND	53.2	70-130	Low Bias	23.4	30	
Diphenylamine	0.708	0.184	"	0.920	ND	77.0	40-140		29.2	30	
Fluoranthene	0.852	0.0921	"	0.920	3.02	NR	70-130	Low Bias	23.8	30	
Fluorene	0.798	0.0921	"	0.920	0.118	73.9	70-130		8.73	30	
Hexachlorobenzene	0.666	0.0921	"	0.920	ND	72.3	70-130		19.7	30	
Hexachlorobutadiene	1.25	0.0921	"	0.920	ND	135	70-130	High Bias	20.1	30	
Hexachlorocyclopentadiene	ND	0.0921	"	0.920	ND		20-106	Low Bias		30	
Hexachloroethane	0.492	0.0921	"	0.920	ND	53.4	20-110		21.9	30	
Indeno(1,2,3-cd)pyrene	0.957	0.0921	"	0.920	0.624	36.2	70-130	Low Bias	11.6	30	
Isophorone	0.564	0.0921	"	0.920	ND	61.3	70-130	Low Bias	22.3	30	
Naphthalene	0.677	0.0921	"	0.920	ND	73.6	70-130		16.8	30	
Nitrobenzene	0.594	0.0921	"	0.920	ND	64.6	70-130	Low Bias	26.0	30	
N-Nitrosodimethylamine	0.336	0.0921	"	0.920	ND	36.5	10-126		15.8	30	
N-nitroso-di-n-propylamine	0.383	0.0921	"	0.920	ND	41.6	70-125	Low Bias	28.4	30	
N-Nitrosodiphenylamine	0.721	0.0921	"	0.920	ND	78.3	70-130		23.8	30	
Pentachlorophenol	0.189	0.0921	"	0.920	ND	20.5	20-153		27.3	30	
Phenanthrene	0.700	0.0921	"	0.920	1.76	NR	70-130	Low Bias	25.5	30	
Phenol	0.533	0.0921	"	0.920	ND	57.9	20-126		8.47	30	
Pyrene	0.681	0.0921	"	0.920	1.84	NR	70-130	Low Bias	20.4	30	
Pyridine	0.247	0.369	"	0.920	ND	26.9	10-83		24.1	30	
Surrogate: SURR: 2-Fluorophenol	*1.06*		*"*	*1.84*		*57.4*	*30-108*				
Surrogate: SURR: Phenol-d6	*0.956*		*"*	*1.84*		*51.9*	*30-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.582*		*"*	*0.920*		*63.2*	*30-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.719*		*"*	*0.920*		*78.1*	*30-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.69*		*"*	*1.84*		*91.8*	*30-110*				
Surrogate: SURR: Terphenyl-d14	*0.672*		*"*	*0.920*		*73.0*	*30-116*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50386 - EPA 3550C												
Blank (BC50386-BLK1)	Blank								Prepared & Analyzed: 03/06/2025			
1,4-Dioxane		ND	19.8	ug/kg								
Surrogate: 1,4-Dioxane-d8		*584*		*"*	*495*		*118*	*39-127.5*				
LCS (BC50386-BS1)	LCS								Prepared & Analyzed: 03/06/2025			
1,4-Dioxane		510	19.8	ug/kg	495		103	40-130				
Surrogate: 1,4-Dioxane-d8		*545*		*"*	*495*		*110*	*39-127.5*				
Matrix Spike (BC50386-MS1)	Matrix Spike	*Source sample: 25B1548-08 (SB04_0-2)							Prepared & Analyzed: 03/06/2025			
1,4-Dioxane		495	19.8	ug/kg	495	ND	100	40-130				
Surrogate: 1,4-Dioxane-d8		*545*		*"*	*495*		*110*	*40-130*				
Matrix Spike Dup (BC50386-!	Matrix Spike Dup	*Source sample: 25B1548-08 (SB04_0-2)							Prepared & Analyzed: 03/06/2025			
1,4-Dioxane		487	19.8	ug/kg	495	ND	98.4	40-130		1.61	30	
Surrogate: 1,4-Dioxane-d8		*535*		*"*	*495*		*108*	*40-130*				
Batch BC50427 - EPA 3550C												
Blank (BC50427-BLK1)	Blank								Prepared: 03/06/2025 Analyzed: 03/07/2025			
1,4-Dioxane		ND	19.8	ug/kg								
Surrogate: 1,4-Dioxane-d8		*554*		*"*	*495*		*112*	*39-127.5*				
LCS (BC50427-BS1)	LCS								Prepared: 03/06/2025 Analyzed: 03/07/2025			
1,4-Dioxane		449	19.8	ug/kg	495		90.6	40-130				
Surrogate: 1,4-Dioxane-d8		*446*		*"*	*495*		*90.0*	*39-127.5*				
Matrix Spike (BC50427-MS1)	Matrix Spike	*Source sample: 25B1548-09 (SB04_5-7)							Prepared: 03/06/2025 Analyzed: 03/07/2025			
1,4-Dioxane		410	19.8	ug/kg	495	ND	82.8	40-130				
Surrogate: 1,4-Dioxane-d8		*396*		*"*	*495*		*80.0*	*40-130*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50427 - EPA 3550C											
Matrix Spike Dup (BC50427-M Matrix Spike Dup				*Source sample: 25B1548-09 (SB04_5-7)					Prepared: 03/06/2025 Analyzed: 03/07/2025		
1,4-Dioxane	438	19.8	ug/kg	495	ND	88.4	40-130		6.54	30	
Surrogate: 1,4-Dioxane-d8	*347*		*"*	*495*		*70.0*	*40-130*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50033 - EPA 1633 Prep											
Blank (BC50033-BLK1) Blank									Prepared: 03/02/2025 Analyzed: 03/05/2025		
Perfluorobutanesulfonic acid (PFBS)	ND	0.177	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.200	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.200	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.183	"								
Perfluorooctanoic acid (PFOA)	ND	0.200	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.186	"								
Perfluorononanoic acid (PFNA)	ND	0.200	"								
Perfluorodecanoic acid (PFDA)	ND	0.200	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.200	"								
Perfluorododecanoic acid (PFDoA)	ND	0.200	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.200	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.200	"								
N-MeFOSAA	ND	0.200	"								
N-EtFOSAA	ND	0.200	"								
Perfluoropentanoic acid (PFPeA)	ND	0.400	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.200	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.200	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.193	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	0.760	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	0.768	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.800	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.356	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.400	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.400	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.400	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.188	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	ND	0.750	"								
HFPO-DA (Gen-X)	ND	0.800	"								
11CL-PF3OUdS	ND	0.756	"								
9CL-PF3ONS	ND	0.748	"								
ADONA	ND	0.756	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.194	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.192	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	1.00	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	5.00	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	5.00	"								
N-MeFOSE	ND	2.00	"								
N-MeFOSA	ND	0.200	"								
N-EtFOSE	ND	2.00	"								
N-EtFOSA	ND	0.200	"								
Surrogate: M3PFBS	*2.41*		*"*	*2.33*		*103*	*25-150*				
Surrogate: M5PFHxA	*2.92*		*"*	*2.50*		*117*	*25-150*				
Surrogate: M4PFHpA	*2.70*		*"*	*2.50*		*108*	*25-150*				
Surrogate: M3PFHxS	*2.66*		*"*	*2.37*		*112*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.75*		*"*	*2.50*		*110*	*25-150*				
Surrogate: M6PFDA	*1.28*		*"*	*1.25*		*103*	*25-150*				
Surrogate: M7PFUdA	*1.22*		*"*	*1.25*		*97.4*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.14*		*"*	*1.25*		*91.6*	*25-150*				
Surrogate: M2PFTeDA	*0.968*		*"*	*1.25*		*77.5*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50033 - EPA 1633 Prep											
Blank (BC50033-BLK1) Blank								Prepared: 03/02/2025 Analyzed: 03/05/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.404*		*ug/kg wet*	*10.0*		*4.04*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.04*		*"*	*2.40*		*85.3*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*1.23*		*"*	*5.00*		*24.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.32*		*"*	*2.50*		*92.7*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.52*		*"*	*5.00*		*90.4*	*25-150*				
Surrogate: d5-N-EtFOSAA	*5.20*		*"*	*5.00*		*104*	*25-150*				
Surrogate: M2-6:2 FTS	*4.88*		*"*	*4.76*		*103*	*25-200*				
Surrogate: M2-8:2 FTS	*4.99*		*"*	*4.80*		*104*	*25-200*				
Surrogate: M9PFNA	*1.39*		*"*	*1.25*		*111*	*25-150*				
Surrogate: M2-4:2 FTS	*5.04*		*"*	*4.69*		*107*	*25-150*				
Surrogate: d-N-MeFOSA	*1.84*		*"*	*2.50*		*73.5*	*25-150*				
Surrogate: d-N-EtFOSA	*1.95*		*"*	*2.50*		*77.8*	*25-150*				
Surrogate: M3HFPO-DA	*12.2*		*"*	*10.0*		*122*	*25-150*				
Surrogate: d9-N-EtFOSE	*17.4*		*"*	*25.0*		*69.7*	*25-150*				
Surrogate: d7-N-MeFOSE	*18.5*		*"*	*25.0*		*73.8*	*25-150*				
LCS (BC50033-BS1) LCS								Prepared: 03/02/2025 Analyzed: 03/05/2025			
Perfluorobutanesulfonic acid (PFBS)	3.67	0.177	ug/kg wet	3.54		104	50-150				
Perfluorohexanoic acid (PFHxA)	4.00	0.200	"	4.00		100	50-150				
Perfluoroheptanoic acid (PFHpA)	3.83	0.200	"	4.00		95.6	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.96	0.183	"	3.66		108	50-150				
Perfluorooctanoic acid (PFOA)	4.04	0.200	"	4.00		101	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.85	0.186	"	3.72		104	50-150				
Perfluorononanoic acid (PFNA)	4.16	0.200	"	4.00		104	50-150				
Perfluorodecanoic acid (PFDA)	3.84	0.200	"	4.00		96.0	50-150				
Perfluoroundecanoic acid (PFUnA)	4.08	0.200	"	4.00		102	50-150				
Perfluorododecanoic acid (PFDoA)	3.62	0.200	"	4.00		90.5	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.04	0.200	"	4.00		101	50-150				
Perfluorotetradecanoic acid (PFTA)	3.98	0.200	"	4.00		99.4	50-150				
N-MeFOSAA	4.67	0.200	"	4.00		117	50-150				
N-EtFOSAA	4.37	0.200	"	4.00		109	50-150				
Perfluoropentanoic acid (PFPeA)	8.30	0.400	"	8.00		104	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.16	0.200	"	4.00		104	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.21	0.200	"	3.82		110	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.72	0.193	"	3.86		96.4	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	15.5	0.760	"	15.2		102	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	13.9	0.768	"	15.4		90.7	50-150				
Perfluoro-n-butanoic acid (PFBA)	14.2	0.800	"	16.0		89.0	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.59	0.356	"	7.12		107	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	8.48	0.400	"	8.00		106	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	0.806	0.400	"	8.00		10.1	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	13.3	0.400	"	8.00		167	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	3.82	0.188	"	3.76		102	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	15.5	0.750	"	15.0		104	50-150				
HFPO-DA (Gen-X)	7.09	0.800	"	8.00		88.7	50-150				
11CL-PF3OUdS	5.15	0.756	"	7.56		68.2	50-150				
9CL-PF3ONS	5.38	0.748	"	7.48		71.9	50-150				
ADONA	6.38	0.756	"	7.56		84.4	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50033 - EPA 1633 Prep											
LCS (BC50033-BS1) LCS								Prepared: 03/02/2025 Analyzed: 03/05/2025			
Perfluorododecanesulfonic acid (PFDoS)	3.54	0.194	ug/kg wet	3.88		91.2	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	3.93	0.192	"	3.84		102	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	9.30	1.00	"	16.0		58.1	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	79.4	5.00	"	80.0		99.2	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	71.4	5.00	"	80.0		89.3	50-150				
N-MeFOSE	44.3	2.00	"	40.0		111	50-150				
N-MeFOSA	4.06	0.200	"	4.00		102	50-150				
N-EtFOSE	43.9	2.00	"	40.0		110	50-150				
N-EtFOSA	4.40	0.200	"	4.00		110	50-150				
Surrogate: M3PFBS	*3.12*		*"*	*2.33*		*134*	*25-150*				
Surrogate: M5PFHxA	*2.99*		*"*	*2.50*		*120*	*25-150*				
Surrogate: M4PFHpA	*2.85*		*"*	*2.50*		*114*	*25-150*				
Surrogate: M3PFHxS	*3.05*		*"*	*2.37*		*129*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.78*		*"*	*2.50*		*111*	*25-150*				
Surrogate: M6PFDA	*1.30*		*"*	*1.25*		*104*	*25-150*				
Surrogate: M7PFUdA	*1.27*		*"*	*1.25*		*102*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.14*		*"*	*1.25*		*91.2*	*25-150*				
Surrogate: M2PFTeDA	*1.06*		*"*	*1.25*		*85.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.415*		*"*	*10.0*		*4.15*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.38*		*"*	*2.40*		*99.4*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.13*		*"*	*5.00*		*62.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.56*		*"*	*2.50*		*102*	*10-150*				
Surrogate: d3-N-MeFOSAA	*5.91*		*"*	*5.00*		*118*	*25-150*				
Surrogate: d5-N-EtFOSAA	*6.18*		*"*	*5.00*		*124*	*25-150*				
Surrogate: M2-6:2 FTS	*6.55*		*"*	*4.76*		*138*	*25-200*				
Surrogate: M2-8:2 FTS	*8.31*		*"*	*4.80*		*173*	*25-200*				
Surrogate: M9PFNA	*1.32*		*"*	*1.25*		*106*	*25-150*				
Surrogate: M2-4:2 FTS	*6.94*		*"*	*4.69*		*148*	*25-150*				
Surrogate: d-N-MeFOSA	*1.90*		*"*	*2.50*		*76.1*	*25-150*				
Surrogate: d-N-EtFOSA	*1.88*		*"*	*2.50*		*75.0*	*25-150*				
Surrogate: M3HFPO-DA	*13.5*		*"*	*10.0*		*135*	*25-150*				
Surrogate: d9-N-EtFOSE	*19.4*		*"*	*25.0*		*77.8*	*25-150*				
Surrogate: d7-N-MeFOSE	*21.0*		*"*	*25.0*		*83.9*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50033 - EPA 1633 Prep											
LCS (BC50033-BS2) LCS								Prepared: 03/02/2025 Analyzed: 03/05/2025			
Perfluorobutanesulfonic acid (PFBS)	0.347	0.177	ug/kg wet	0.353		98.2	50-150				
Perfluorohexanoic acid (PFHxA)	0.364	0.200	"	0.399		91.1	50-150				
Perfluoroheptanoic acid (PFHpA)	0.396	0.200	"	0.399		99.1	50-150				
Perfluorohexanesulfonic acid (PFHxS)	0.364	0.183	"	0.365		99.5	50-150				
Perfluorooctanoic acid (PFOA)	0.387	0.200	"	0.399		96.8	50-150				
Perfluorooctanesulfonic acid (PFOS)	0.457	0.186	"	0.371		123	50-150				
Perfluorononanoic acid (PFNA)	0.379	0.200	"	0.399		95.0	50-150				
Perfluorodecanoic acid (PFDA)	0.356	0.200	"	0.399		89.3	50-150				
Perfluoroundecanoic acid (PFUnA)	0.376	0.200	"	0.399		94.2	50-150				
Perfluorododecanoic acid (PFDoA)	0.380	0.200	"	0.399		95.2	50-150				
Perfluorotridecanoic acid (PFTrDA)	0.437	0.200	"	0.399		110	50-150				
Perfluorotetradecanoic acid (PFTA)	0.364	0.200	"	0.399		91.1	50-150				
N-MeFOSAA	0.339	0.200	"	0.399		84.9	50-150				
N-EtFOSAA	0.498	0.200	"	0.399		125	50-150				
Perfluoropentanoic acid (PFPeA)	0.776	0.399	"	0.798		97.1	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	0.391	0.200	"	0.399		97.8	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.495	0.200	"	0.381		130	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	0.383	0.193	"	0.385		99.4	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	1.81	0.758	"	1.52		120	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	1.52	0.766	"	1.53		99.3	50-150				
Perfluoro-n-butanoic acid (PFBA)	1.43	0.798	"	1.60		89.3	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.713	0.355	"	0.711		100	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1.43	0.399	"	0.798		179	50-150	High Bias			
Perfluoro-4-oxapentanoic acid (PFMPA)	0.0962	0.399	"	0.798		12.1	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.03	0.399	"	0.798		129	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	0.395	0.188	"	0.375		105	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	1.68	0.749	"	1.50		112	50-150				
HFPO-DA (Gen-X)	0.710	0.798	"	0.798		89.0	50-150				
11CL-PF3OUdS	0.424	0.754	"	0.754		56.2	50-150				
9CL-PF3ONS	0.469	0.747	"	0.747		62.8	50-150				
ADONA	0.622	0.754	"	0.754		82.4	50-150				
Perfluorododecanesulfonic acid (PFDoS)	0.347	0.194	"	0.387		89.6	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	0.398	0.192	"	0.383		104	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	1.04	0.998	"	1.60		65.2	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	7.56	4.99	"	7.98		94.6	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	6.78	4.99	"	7.98		84.9	50-150				
N-MeFOSE	4.16	2.00	"	3.99		104	50-150				
N-MeFOSA	0.574	0.200	"	0.399		144	50-150				
N-EtFOSE	4.24	2.00	"	3.99		106	50-150				
N-EtFOSA	0.315	0.200	"	0.399		79.0	50-150				
Surrogate: M3PFBS	*2.22*		*"*	*2.33*		*95.4*	*25-150*				
Surrogate: M5PFHxA	*2.71*		*"*	*2.50*		*109*	*25-150*				
Surrogate: M4PFHpA	*2.47*		*"*	*2.50*		*98.9*	*25-150*				
Surrogate: M3PFHxS	*2.19*		*"*	*2.37*		*92.5*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.52*		*"*	*2.50*		*101*	*25-150*				
Surrogate: M6PFDA	*1.15*		*"*	*1.25*		*92.3*	*25-150*				
Surrogate: M7PFUdA	*1.16*		*"*	*1.25*		*93.0*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.940*		*"*	*1.25*		*75.3*	*25-150*				
Surrogate: M2PFTeDA	*0.848*		*"*	*1.25*		*68.0*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50033 - EPA 1633 Prep											
LCS (BC50033-BS2) LCS								Prepared: 03/02/2025 Analyzed: 03/05/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.489*		*ug/kg wet*	*9.98*		*4.90*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.87*		*"*	*2.39*		*78.2*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.75*		*"*	*4.99*		*75.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.14*		*"*	*2.50*		*85.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.61*		*"*	*4.99*		*92.4*	*25-150*				
Surrogate: d5-N-EtFOSAA	*5.28*		*"*	*4.99*		*106*	*25-150*				
Surrogate: M2-6:2 FTS	*3.80*		*"*	*4.75*		*80.0*	*25-200*				
Surrogate: M2-8:2 FTS	*4.65*		*"*	*4.79*		*97.1*	*25-200*				
Surrogate: M9PFNA	*1.18*		*"*	*1.25*		*94.7*	*25-150*				
Surrogate: M2-4:2 FTS	*4.40*		*"*	*4.68*		*94.0*	*25-150*				
Surrogate: d-N-MeFOSA	*1.50*		*"*	*2.50*		*60.3*	*25-150*				
Surrogate: d-N-EtFOSA	*1.64*		*"*	*2.50*		*65.6*	*25-150*				
Surrogate: M3HFPO-DA	*11.6*		*"*	*9.98*		*116*	*25-150*				
Surrogate: d9-N-EtFOSE	*15.2*		*"*	*25.0*		*61.1*	*25-150*				
Surrogate: d7-N-MeFOSE	*16.1*		*"*	*25.0*		*64.7*	*25-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50198 - EPA 3550C											
Blank (BC50198-BLK1) Blank							Prepared & Analyzed: 03/05/2025				
4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								
Surrogate: Decachlorobiphenyl	*0.0445*		*"*	*0.0664*		*66.9*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0444*		*"*	*0.0664*		*66.8*	*30-150*				
LCS (BC50198-BS1) LCS							Prepared & Analyzed: 03/05/2025				
4,4'-DDD	0.0233	0.00164	mg/kg wet	0.0332		70.2	40-140				
4,4'-DDE	0.0212	0.00164	"	0.0332		63.9	40-140				
4,4'-DDT	0.0243	0.00164	"	0.0332		73.2	40-140				
Aldrin	0.0217	0.00164	"	0.0332		65.4	40-140				
alpha-BHC	0.0245	0.00164	"	0.0332		73.9	40-140				
alpha-Chlordane	0.0222	0.00164	"	0.0332		66.7	40-140				
beta-BHC	0.0259	0.00164	"	0.0332		77.8	40-140				
delta-BHC	0.0143	0.00164	"	0.0332		43.1	40-140				
Dieldrin	0.0223	0.00164	"	0.0332		67.3	40-140				
Endosulfan I	0.0229	0.00164	"	0.0332		68.9	40-140				
Endosulfan II	0.0253	0.00164	"	0.0332		76.1	40-140				
Endosulfan sulfate	0.0236	0.00164	"	0.0332		71.1	40-140				
Endrin	0.0237	0.00164	"	0.0332		71.3	40-140				
Endrin aldehyde	0.0266	0.00164	"	0.0332		79.9	40-140				
Endrin ketone	0.0253	0.00164	"	0.0332		76.3	40-140				
gamma-BHC (Lindane)	0.0256	0.00164	"	0.0332		77.0	40-140				
gamma-Chlordane	0.0227	0.00164	"	0.0332		68.3	40-140				
Heptachlor	0.0248	0.00164	"	0.0332		74.6	40-140				
Heptachlor epoxide	0.0235	0.00164	"	0.0332		70.9	40-140				
Methoxychlor	0.0273	0.00164	"	0.0332		82.3	40-140				
Surrogate: Decachlorobiphenyl	*0.0408*		*"*	*0.0664*		*61.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0277*		*"*	*0.0664*		*41.7*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50198 - EPA 3550C											
Matrix Spike (BC50198-MS1) Matrix Spike *Source sample: 25B1548-08 (SB04_0-2)								Prepared & Analyzed: 03/05/2025			
4,4'-DDD	0.0241	0.00182	mg/kg dry	0.0368	ND	65.5	30-150				
4,4'-DDE	0.0225	0.00182	"	0.0368	ND	61.0	30-150				
4,4'-DDT	0.0262	0.00182	"	0.0368	ND	71.0	30-150				
Aldrin	0.0229	0.00182	"	0.0368	ND	62.2	30-150				
alpha-BHC	0.0296	0.00182	"	0.0368	ND	80.4	30-150				
alpha-Chlordane	0.0233	0.00182	"	0.0368	ND	63.2	30-150				
beta-BHC	0.0263	0.00182	"	0.0368	ND	71.4	30-150				
delta-BHC	0.0150	0.00182	"	0.0368	ND	40.8	30-150				
Dieldrin	0.0233	0.00182	"	0.0368	ND	63.2	30-150				
Endosulfan I	0.0241	0.00182	"	0.0368	ND	65.6	30-150				
Endosulfan II	0.0261	0.00182	"	0.0368	ND	70.9	30-150				
Endosulfan sulfate	0.0256	0.00182	"	0.0368	ND	69.6	30-150				
Endrin	0.0241	0.00182	"	0.0368	ND	65.3	30-150				
Endrin aldehyde	0.0295	0.00182	"	0.0368	ND	80.2	30-150				
Endrin ketone	0.0277	0.00182	"	0.0368	ND	75.3	30-150				
gamma-BHC (Lindane)	0.0265	0.00182	"	0.0368	ND	71.9	30-150				
gamma-Chlordane	0.0236	0.00182	"	0.0368	ND	64.1	30-150				
Heptachlor	0.0268	0.00182	"	0.0368	ND	72.9	30-150				
Heptachlor epoxide	0.0246	0.00182	"	0.0368	ND	66.7	30-150				
Methoxychlor	0.0295	0.00182	"	0.0368	ND	80.1	30-150				
Surrogate: Decachlorobiphenyl	*0.0455*		*"*	*0.0736*		*61.8*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0433*		*"*	*0.0736*		*58.7*	*30-150*				
Matrix Spike Dup (BC50198-! Matrix Spike Dup *Source sample: 25B1548-08 (SB04_0-2)								Prepared & Analyzed: 03/05/2025			
4,4'-DDD	0.0219	0.00182	mg/kg dry	0.0368	ND	59.5	30-150		9.67	30	
4,4'-DDE	0.0203	0.00182	"	0.0368	ND	55.2	30-150		10.0	30	
4,4'-DDT	0.0244	0.00182	"	0.0368	ND	66.3	30-150		6.84	30	
Aldrin	0.0207	0.00182	"	0.0368	ND	56.2	30-150		10.2	30	
alpha-BHC	0.0244	0.00182	"	0.0368	ND	66.2	30-150		19.5	30	
alpha-Chlordane	0.0213	0.00182	"	0.0368	ND	57.7	30-150		9.10	30	
beta-BHC	0.0243	0.00182	"	0.0368	ND	66.1	30-150		7.72	30	
delta-BHC	0.0171	0.00182	"	0.0368	ND	46.3	30-150		12.6	30	
Dieldrin	0.0212	0.00182	"	0.0368	ND	57.6	30-150		9.34	30	
Endosulfan I	0.0218	0.00182	"	0.0368	ND	59.3	30-150		10.1	30	
Endosulfan II	0.0236	0.00182	"	0.0368	ND	64.1	30-150		10.1	30	
Endosulfan sulfate	0.0230	0.00182	"	0.0368	ND	62.4	30-150		10.9	30	
Endrin	0.0222	0.00182	"	0.0368	ND	60.3	30-150		8.00	30	
Endrin aldehyde	0.0268	0.00182	"	0.0368	ND	72.8	30-150		9.74	30	
Endrin ketone	0.0252	0.00182	"	0.0368	ND	68.5	30-150		9.45	30	
gamma-BHC (Lindane)	0.0238	0.00182	"	0.0368	ND	64.7	30-150		10.5	30	
gamma-Chlordane	0.0213	0.00182	"	0.0368	ND	57.8	30-150		10.3	30	
Heptachlor	0.0236	0.00182	"	0.0368	ND	64.1	30-150		12.8	30	
Heptachlor epoxide	0.0222	0.00182	"	0.0368	ND	60.3	30-150		10.1	30	
Methoxychlor	0.0279	0.00182	"	0.0368	ND	75.8	30-150		5.63	30	
Surrogate: Decachlorobiphenyl	*0.0458*		*"*	*0.0736*		*62.2*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0438*		*"*	*0.0736*		*59.5*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50197 - EPA 3550C											
Blank (BC50197-BLK1) Blank							Prepared & Analyzed: 03/05/2025				
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	*0.0508*		*"*	*0.0664*		*76.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0346*		*"*	*0.0664*		*52.0*	*30-120*				
LCS (BC50197-BS2) LCS							Prepared & Analyzed: 03/05/2025				
Aroclor 1016	0.244	0.0166	mg/kg wet	0.332		73.4	40-130				
Aroclor 1260	0.225	0.0166	"	0.332		67.8	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0472*		*"*	*0.0664*		*71.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0342*		*"*	*0.0664*		*51.5*	*30-120*				
Matrix Spike (BC50197-MS2) Matrix Spike *Source sample: 25B1548-08 (SB04_0-2)							Prepared & Analyzed: 03/05/2025				
Aroclor 1016	0.245	0.0184	mg/kg dry	0.368	ND	66.4	40-140				
Aroclor 1260	0.228	0.0184	"	0.368	ND	62.0	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0486*		*"*	*0.0736*		*66.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0357*		*"*	*0.0736*		*48.5*	*30-120*				
Matrix Spike Dup (BC50197-! Matrix Spike Dup *Source sample: 25B1548-08 (SB04_0-2)							Prepared & Analyzed: 03/05/2025				
Aroclor 1016	0.250	0.0184	mg/kg dry	0.368	ND	67.9	40-140		2.20	50	
Aroclor 1260	0.235	0.0184	"	0.368	ND	63.8	40-140		2.83	50	
Surrogate: Tetrachloro-m-xylene	*0.0493*		*"*	*0.0736*		*67.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0364*		*"*	*0.0736*		*49.5*	*30-120*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50170 - EPA 3550C/8151A											
Blank (BC50170-BLK1) Blank								Prepared: 03/04/2025 Analyzed: 03/05/2025			
2,4,5-T	ND	0.0199	mg/kg wet								
2,4,5-TP (Silvex)	ND	0.0199	"								
2,4-D	ND	0.0199	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.424*		*"*	*0.415*		*102*	*21-150*				
LCS (BC50170-BS1) LCS								Prepared: 03/04/2025 Analyzed: 03/05/2025			
2,4,5-T	0.0623	0.0199	mg/kg wet	0.0664		93.8	10-120				
2,4,5-TP (Silvex)	0.0731	0.0199	"	0.0664		110	10-120				
2,4-D	0.0590	0.0199	"	0.0664		88.8	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.348*		*"*	*0.415*		*83.8*	*21-150*				
Matrix Spike (BC50170-MS1) Matrix Spike *Source sample: 25B1548-08 (SB04_0-2)								Prepared: 03/04/2025 Analyzed: 03/05/2025			
2,4,5-T	0.0957	0.0221	mg/kg dry	0.0736	ND	130	10-120	High Bias			
2,4,5-TP (Silvex)	0.0874	0.0221	"	0.0736	ND	119	10-120				
2,4-D	0.138	0.0221	"	0.0736	ND	188	10-118	High Bias			
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.469*		*"*	*0.460*		*102*	*21-150*				
Matrix Spike Dup (BC50170-M Matrix Spike Dup *Source sample: 25B1548-08 (SB04_0-2)								Prepared: 03/04/2025 Analyzed: 03/05/2025			
2,4,5-T	0.0976	0.0221	mg/kg dry	0.0736	ND	132	10-120	High Bias	1.90	35	
2,4,5-TP (Silvex)	0.0920	0.0221	"	0.0736	ND	125	10-120	High Bias	5.13	35	
2,4-D	0.201	0.0221	"	0.0736	ND	272	10-118	High Bias	37.0	35	Non-dir.
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.455*		*"*	*0.460*		*98.8*	*21-150*				
Batch BC50415 - EPA 3550C/8151A											
Blank (BC50415-BLK1) Blank								Prepared: 03/06/2025 Analyzed: 03/07/2025			
2,4,5-T	ND	0.0199	mg/kg wet								
2,4,5-TP (Silvex)	ND	0.0199	"								
2,4-D	ND	0.0199	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.381*		*"*	*0.415*		*91.8*	*21-150*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50415 - EPA 3550C/8151A											
LCS (BC50415-BS1) LCS							Prepared: 03/06/2025 Analyzed: 03/07/2025				
2,4,5-T	0.0623	0.0199	mg/kg wet	0.0664		93.8	10-120				
2,4,5-TP (Silvex)	0.0581	0.0199	"	0.0664		87.5	10-120				
2,4-D	0.0556	0.0199	"	0.0664		83.7	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.399*		*"*	*0.415*		*96.0*	*21-150*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50211 - EPA 3050B											
Blank (BC50211-BLK1) Blank								Prepared: 03/04/2025 Analyzed: 03/05/2025			
Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	ND	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	ND	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	1.67	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								
Duplicate (BC50211-DUP1) Duplicate *Source sample: 25B1548-08 (SB04_0-2)								Prepared: 03/04/2025 Analyzed: 03/05/2025			
Aluminum	19400	4.62	mg/kg dry		20800				6.52	35	
Antimony	ND	2.31	"		ND					35	
Arsenic	2.09	1.39	"		2.88				32.0	35	
Barium	95.3	2.31	"		90.4				5.29	35	
Beryllium	0.475	0.047	"		0.522				9.45	35	
Cadmium	ND	0.277	"		ND					35	
Calcium	1200	4.62	"		1080				10.5	35	
Chromium	70.6	0.462	"		61.5				13.7	35	
Cobalt	18.4	0.369	"		17.6				4.25	35	
Copper	27.8	1.85	"		25.1				10.5	35	
Iron	27100	23.1	"		25800				5.11	35	
Lead	7.43	0.462	"		8.61				14.7	35	
Magnesium	7250	4.62	"		6200				15.6	35	
Manganese	318	0.462	"		327				2.66	35	
Nickel	129	0.920	"		112				13.8	35	
Potassium	2740	4.62	"		2120				25.5	35	
Selenium	ND	2.31	"		ND					35	
Silver	ND	0.465	"		ND					35	
Sodium	250	46.2	"		242				3.20	35	
Thallium	ND	1.85	"		ND					35	
Vanadium	51.4	0.920	"		45.8				11.6	35	
Zinc	41.8	2.30	"		43.6				4.26	35	

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50211 - EPA 3050B											
Matrix Spike (BC50211-MS1) Matrix Spike	*Source sample: 25B1548-08 (SB04_0-2)							Prepared: 03/04/2025 Analyzed: 03/05/2025			
Aluminum	18300	4.62	mg/kg dry	185	20800	NR	75-125	Low Bias			
Antimony	5.19	2.31	"	23.1	ND	22.5	75-125	Low Bias			
Arsenic	185	1.39	"	185	2.88	98.7	75-125				
Barium	277	2.31	"	185	90.4	101	75-125				
Beryllium	5.14	0.047	"	4.62	0.522	100	75-125				
Cadmium	4.33	0.277	"	4.62	ND	93.8	75-125				
Calcium	1140	4.62	"	92.4	1080	65.3	75-125	Low Bias			
Chromium	79.8	0.462	"	18.5	61.5	99.1	75-125				
Cobalt	62.4	0.369	"	46.2	17.6	96.9	75-125				
Copper	50.0	1.85	"	23.1	25.1	108	75-125				
Iron	24700	23.1	"	92.4	25800	NR	75-125	Low Bias			
Lead	51.5	0.462	"	46.2	8.61	93.0	75-125				
Magnesium	6450	4.62	"	92.4	6200	273	75-125	High Bias			
Manganese	349	0.462	"	46.2	327	47.5	75-125	Low Bias			
Nickel	162	0.920	"	46.2	112	108	75-125				
Potassium	2570	4.62	"	92.4	2120	494	75-125	High Bias			
Selenium	181	2.31	"	185	ND	97.9	75-125				
Silver	4.61	0.465	"	4.62	ND	99.8	75-125				
Sodium	312	46.2	"	92.4	242	76.0	75-125				
Thallium	176	1.85	"	185	ND	95.1	75-125				
Vanadium	87.5	0.920	"	46.2	45.8	90.4	75-125				
Zinc	83.0	2.30	"	46.2	43.6	85.2	75-125				
Post Spike (BC50211-PS1) Post Spike	*Source sample: 25B1548-08 (SB04_0-2)							Prepared: 03/04/2025 Analyzed: 03/05/2025			
Aluminum	225		ug/mL	2.00	225	31.5	75-125	Low Bias			
Antimony	0.250		"	0.250	-0.006	100	75-125				
Arsenic	2.01		"	2.00	0.031	98.9	75-125				
Barium	2.95		"	2.00	0.979	98.7	75-125				
Beryllium	0.056		"	0.0500	0.006	101	75-125				
Cadmium	0.046		"	0.0500	-0.0001	92.4	75-125				
Calcium	12.9		"	1.00	11.7	116	75-125				
Chromium	0.855		"	0.200	0.666	94.5	75-125				
Cobalt	0.670		"	0.500	0.191	95.7	75-125				
Copper	0.537		"	0.250	0.271	106	75-125				
Iron	278		"	1.00	279	NR	75-125	Low Bias			
Lead	0.564		"	0.500	0.093	94.2	75-125				
Magnesium	69.4		"	1.00	67.1	228	75-125	High Bias			
Manganese	4.00		"	0.500	3.54	91.9	75-125				
Nickel	1.69		"	0.500	1.22	94.0	75-125				
Potassium	24.3		"	1.00	22.9	134	75-125	High Bias			
Selenium	1.98		"	2.00	-0.004	99.0	75-125				
Silver	0.052		"	0.0500	-0.0008	105	75-125				
Sodium	3.65		"	1.00	2.62	102	75-125				
Thallium	1.88		"	2.00	-0.006	93.9	75-125				
Vanadium	0.981		"	0.500	0.496	97.1	75-125				
Zinc	0.934		"	0.500	0.473	92.3	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50211 - EPA 3050B											
Reference (BC50211-SRM1) Reference								Prepared: 03/04/2025 Analyzed: 03/05/2025			
Aluminum	8060	4.17	mg/kg wet	7680		105	47.4-130.2				
Antimony	57.1	2.08	"	201		28.4	0-100				
Arsenic	159	1.25	"	181		88.0	66.3-98				
Barium	216	2.08	"	211		102	73.9-107.1				
Beryllium	292	0.042	"	270		108	73-104.4	High Bias			
Cadmium	200	0.250	"	221		90.5	70.6-101.8				
Calcium	4650	4.17	"	4280		109	77.3-111				
Chromium	150	0.417	"	149		101	71.8-105.4				
Cobalt	148	0.333	"	142		104	73.2-104.2				
Copper	282	1.67	"	264		107	73.5-104.2	High Bias			
Iron	6890	20.8	"	7360		93.6	55.4-130.3				
Lead	97.7	0.417	"	106		92.2	76.1-109.4				
Magnesium	2170	4.17	"	2170		100	68.7-112				
Manganese	257	0.417	"	270		95.2	73-107.8				
Nickel	183	0.830	"	177		103	71.8-103.4				
Potassium	2170	4.17	"	2340		92.8	62.8-113.7				
Selenium	135	2.08	"	139		96.9	70-107.9				
Silver	57.9	0.420	"	59.9		96.6	72.8-110.7				
Sodium	303	41.7	"	306		99.1	66-113.4				
Thallium	174	1.67	"	205		84.9	71.7-106.8				
Vanadium	149	0.830	"	155		95.9	69-107.7				
Zinc	377	2.08	"	389		96.9	70.4-106.9				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50237 - EPA 7473 soil												
Blank (BC50237-BLK1)	Blank									Prepared: 03/04/2025 Analyzed: 03/05/2025		
Mercury		ND	0.0300	mg/kg wet								
Duplicate (BC50237-DUP1)	Duplicate	*Source sample: 25B1548-08 (SB04_0-2)								Prepared: 03/04/2025 Analyzed: 03/05/2025		
Mercury		0.0338	0.0332	mg/kg dry		0.0468				32.2	35	
Matrix Spike (BC50237-MS1)	Matrix Spike	*Source sample: 25B1548-08 (SB04_0-2)								Prepared: 03/04/2025 Analyzed: 03/05/2025		
Mercury		0.474		mg/kg	1.00	0.0422	43.1	75-125	Low Bias			
Reference (BC50237-SRM1)	Reference									Prepared: 03/04/2025 Analyzed: 03/05/2025		
Mercury		24.813		mg/kg	24.0		103	55.8-109.6				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50174 - EPA SW846-3060												
Blank (BC50174-BLK1)	Blank								Prepared & Analyzed: 03/04/2025			
Chromium, Hexavalent		ND	0.500	mg/kg wet								
Duplicate (BC50174-DUP1)	Duplicate	*Source sample: 25B1548-08 (SB04_0-2)							Prepared & Analyzed: 03/04/2025			
Chromium, Hexavalent		ND	0.554	mg/kg dry		ND					35	
Matrix Spike (BC50174-MS1)	Matrix Spike	*Source sample: 25B1548-08 (SB04_0-2)							Prepared & Analyzed: 03/04/2025			
Chromium, Hexavalent		8.11	0.554	mg/kg dry	22.2	ND	36.6	75-125	Low Bias			
Matrix Spike Dup (BC50174-M	Matrix Spike Dup	*Source sample: 25B1548-08 (SB04_0-2)							Prepared & Analyzed: 03/04/2025			
Chromium, Hexavalent		9.05	0.554	mg/kg dry	22.2	ND	40.8	75-125	Low Bias	11.0	200	
Reference (BC50174-SRM1)	Reference								Prepared & Analyzed: 03/04/2025			
Chromium, Hexavalent		188		mg/L	227		82.6	42.3-157.7				
Batch BC50263 - Analysis Preparation Soil												
Blank (BC50263-BLK1)	Blank								Prepared & Analyzed: 03/05/2025			
Cyanide, total		ND	0.500	mg/kg wet								
Duplicate (BC50263-DUP1)	Duplicate	*Source sample: 25B1548-08 (SB04_0-2)							Prepared & Analyzed: 03/05/2025			
Cyanide, total		ND	0.554	mg/kg dry		ND					15	
Matrix Spike (BC50263-MS1)	Matrix Spike	*Source sample: 25B1548-08 (SB04_0-2)							Prepared & Analyzed: 03/05/2025			
Cyanide, total		4.90	0.554	mg/kg dry	5.54	ND	88.5	79.6-107				
Matrix Spike Dup (BC50263-M	Matrix Spike Dup	*Source sample: 25B1548-08 (SB04_0-2)							Prepared & Analyzed: 03/05/2025			
Cyanide, total		5.70	0.554	mg/kg dry	5.54	ND	103	79.6-107		15.1	200	

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50263 - Analysis Preparation Soil											
Reference (BC50263-SRM1) Reference								Prepared & Analyzed: 03/05/2025			
Cyanide, total	108		ug/mL	111		97.7	43.5-170				
Batch BC50300 - Analysis Preparation Soil											
Blank (BC50300-BLK1) Blank								Prepared & Analyzed: 03/05/2025			
Cyanide, total	ND	0.500	mg/kg wet								
Reference (BC50300-SRM1) Reference								Prepared & Analyzed: 03/05/2025			
Cyanide, total	130		ug/mL	111		117	43.5-170				
Batch BC50349 - Analysis Preparation											
Duplicate (BC50349-DUP1) Duplicate *Source sample: 25B1548-08 (SB04_0-2)								Prepared & Analyzed: 03/05/2025			
Chromium, Trivalent	61.5	0.500	mg/kg		61.5				0.00	200	

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB51995 - % Solids Prep											
Duplicate (BB51995-DUP1) Duplicate	*Source sample: 25B1548-08 (SB04_0-2)							Prepared & Analyzed: 02/28/2025			
% Solids	90.0	0.100	%		90.2				0.291	20	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
25B1548-02	SB01_0-2	40mL Vial with Stir Bar-Cool 4° C
25B1548-03	SB01_5-7	40mL Vial with Stir Bar-Cool 4° C
25B1548-04	SB02_0-2	40mL Vial with Stir Bar-Cool 4° C
25B1548-05	SB02_5-7	40mL Vial with Stir Bar-Cool 4° C
25B1548-06	SB03_0-2	40mL Vial with Stir Bar-Cool 4° C
25B1548-07	SB03_5-7	40mL Vial with Stir Bar-Cool 4° C
25B1548-08	SB04_0-2	40mL Vial with Stir Bar-Cool 4° C
25B1548-09	SB04_5-7	40mL Vial with Stir Bar-Cool 4° C
25B1548-10	SODUP01_022725	40mL Vial with Stir Bar-Cool 4° C

Sample and Data Qualifiers Relating to This Work Order

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
P	This qualifier indicates the compound detected exhibited greater than 40% between the quantitation and confirmatory columns.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-CCV1	The recovery for this element in the Continuing Calibration Verification (CCV) was outside the 90-110% recovery criteria.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This legal document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | 2161 Whitesville Rd Toms River, NJ 08755 | clientservices@yorklab.com | 800-306-YORK

YORK Project Number: 25B1548

Page 1 of 2

Report To:
Company: Langan
Address: 368 Ninth Ave, 8th Fl NY, NY 10001
Phone: 212-479-5400
Contact: Lexi Haley
E-mail: LHaley@langan.com

Invoice To:
Company:
Address:
Phone:
Contact:
E-mail:

YOUR Project Name / Number: Ring Road at Ferry Point Park Phase II 17077300

PO Number:

Samples Collected From: NY [X] NJ [ ] CT [ ] PA [ ] Other: (please specify)

Turn-Around Time
- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- Standard (6-9 Day) [X]
- PFAS Standard 7-10 Day

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Savannah Walters

Matrix Codes
S - soil/solid/sludge
GW - groundwater
DW - drinking water
SW - surface water
WW - wastewater
O - Oil
Other

Preservative (please list number of containers)

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other:	Part 375 VOCs	Part 375 SVOCs, PCBs, Pest.	Herb, Tot Metals (incl Hex)	tri chromium & total cyanide	(dissolved & total), 1,4 dioxane	PFAS	Grab or Comp. G/C
TMW01-022725	2/27/25	1330	GW	10	3		2		1					X	X	X	X	X	X	

Field Filtered [X]
Lab Filtered [ ]

Comments: please cc: datamanagement@langan.com areach@langan.com & swalters@langan.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N | Containers Intact: Y / N | COC/Labels Agree: Y / N | Preservation Confirmed: Y / N
COC Complete: Y / N | COC Received: Y / N | Appropriate Sample Volumes: Y / N | Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N | Samples Submitted within Holding Times: Y / N | Corrective Action Form Required: Y / N

Relinquished by / Company	Date/Time	Received by / Company	Date/Time
1. Savannah Walters (Langan)	02/27/25 1634	1. [signature]	2-27-25 16:34
2. [signature]	2/27/25 1735 S.O	2. [signature]	2-27-25 1735
3. [signature]	2/27/25 17:45	3. [signature]	2/27/25 17:45
4. [signature]	2/27/25 20:00	4.	

Samples Received in LAB by: [signature] Date/Time: 2/27/25 20:00 Temperature: 2.3 Degrees C

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This legal document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | 2161 Whitesville Rd Toms River, NJ 08755 | clientservices@yorklab.com | 800-306-YORK

YORK Project Number: 25B1548

Report To:
Company: Langan
Address: 368 Ninth Ave 8th Fl NY, NY 10001
Phone.: 212-479-5900
Contact: Lexi Haley
E-mail: LHaley@langan.com

Invoice To:
Company:
Address:
Phone.:
Contact:
E-mail:

YOUR Project Name / Number: Ring Road @ Ferry Point Park Phase II 170773001

PO Number:

Samples Collected From: NY ☒ | NJ ☐ | CT ☐ | PA ☐ | Other: (please specify)

Turn-Around Time: RUSH - Next Day ☐ | RUSH - Two Day ☐ | RUSH - Three Day ☐ | RUSH - Four Day ☐ | RUSH - Five Day ☐ | Standard (6-9 Day) ☒ | PFAS Standard 7-10 Day ☐

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Savannah Walters
SWalters

Samples Collected by: (print AND sign your name)

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Preservative (please list number of containers)

Analyses Requested

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other: DI water	Part 375 VOCs	Part 375 SVOCs, PCBs	PESV, Herb, TPH, metals (Ind)	hex/tri chromium, ethyl cyanide, 1-4 dioxane	PFAS						Grab or Comp. G/C
SB01-0-2	2/27/25	0907	S	4		1							2	X	X	X	X	X	X					
SB01-5-7		0920		3										X	X	X	X	X						
SB02-0-2		1207												X	X	X	X	X						
SB02-5-7		1218												X	X	X	X	X						
SB03-0-2		1458												X	X	X	X	X						
SB03-5-7		1506												X	X	X	X	X						
SB04-0-2 (MS/MSD)		1540		9		3							6	X	X	X	X	X						
SB04-5-7		1547		3		1							2	X	X	X	X	X						
SODUP01-022725		—		3		1							2	X	X	X	X	X						
~~[illegible]~~																								

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered ☐
Lab Filtered ☐

Comments: please cc: datamanagement@langan.com areach@langan.com & swalters@langan.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N | Containers Intact: Y / N | COC/Labels Agree: Y / N | Preservation Confirmed: Y / N
COC Complete: Y / N | COC Received: Y / N | Appropriate Sample Volumes: Y / N | Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N | Samples Submitted within Holding Times: Y / N | Corrective Action Form Required: Y / N

Relinquished by / Company	Date/Time	Received by / Company	Date/Time	Relinquished by / Company	Date/Time
1. Savannah Walters (Langan)	2/27/25 1634	1. [signature]	2-27-25 16:34	2. [signature]	2-27-25 1735
2. [signature]	2/27/25 1735 50	3. [signature]	2/27/25 1735	3. [signature]	2/27/25 1735
4. [signature]	2/27/25 20:00	4.			

Samples Received in LAB by: [signature] Date/Time: 2/27/25 20:00 Temperature: 23 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Report Date: 03/10/2025
Client Project ID: 170773001
York Project (SDG) No.: 25B1634

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/10/2025
Client Project ID: 170773001
York Project (SDG) No.: 25B1634

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 28, 2025 and listed below. The project was identified as your project: **170773001**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25B1634-04	SB10_0-2	Soil	02/28/2025	02/28/2025
25B1634-05	SB10_5-7	Soil	02/28/2025	02/28/2025
25B1634-06	SB09_0-2	Soil	02/28/2025	02/28/2025
25B1634-07	SB09_5-7	Soil	02/28/2025	02/28/2025
25B1634-08	SB08_0-2	Soil	02/28/2025	02/28/2025
25B1634-09	SB08_5-7	Soil	02/28/2025	02/28/2025
25B1634-10	SB07_0-2	Soil	02/28/2025	02/28/2025
25B1634-11	SB07_5-7	Soil	02/28/2025	02/28/2025
25B1634-12	SB06_0-2	Soil	02/28/2025	02/28/2025
25B1634-13	SB06_5-7	Soil	02/28/2025	02/28/2025
25B1634-14	SODUP02_022825	Soil	02/28/2025	02/28/2025
25B1634-15	SOTB01_022825	Water	02/28/2025	02/28/2025
25B1634-16	SOFB01_PFAS_022825	Water	02/28/2025	02/28/2025
25B1634-17	SOFB01_022825	Water	02/28/2025	02/28/2025

General Notes for York Project (SDG) No.: 25B1634

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By **Date:** 03/10/2025

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: SB10_0-2 **York Sample ID:** 25B1634-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:45 am	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.057	0.11	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB10_0-2 **York Sample ID:** 25B1634-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:45 am	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.0097**	ICVE, J	mg/kg dry	0.0057	0.011	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB10_0-2 **York Sample ID:** 25B1634-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:45 am	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB10_0-2** **York Sample ID:** **25B1634-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:45 am	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0028	0.0057	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0085	0.017	1	EPA 8260D	03/05/2025 15:26	03/05/2025 17:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*109 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0971	0.194	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0971	0.194	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0971	0.194	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB10_0-2** **York Sample ID:** **25B1634-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:45 am	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0971	0.194	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0971	0.194	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0971	0.194	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0971	0.194	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0971	0.194	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.0753**	J	mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.194	0.389	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.144**		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.194	0.389	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.498**		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB10_0-2 **York Sample ID:** 25B1634-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:45 am	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.334**		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.353**		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.190**		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.344**		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0971	0.194	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.521**		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	**Dibenzo(a,h)anthracene**	**0.0660**	J	mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0971	0.194	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**1.06**		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB10_0-2** **York Sample ID:** **25B1634-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:45 am	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.219**		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.373**		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.773**		mg/kg dry	0.0487	0.0971	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.194	0.389	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:07	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*88.2 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*77.9 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*73.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*74.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*74.9 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*74.0 %*	*24-116*

Sample Information

Client Sample ID: **SB10_0-2** **York Sample ID:** **25B1634-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:45 am	02/28/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.0	1	EPA 8270D SIM	03/06/2025 13:46	03/07/2025 21:43	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*92.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00193	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00193	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00193	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00193	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00193	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	**alpha-Chlordane**	**0.00864**		mg/kg dry	0.00193	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00193	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00193	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00193	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00193	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00193	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00193	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00193	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00193	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00193	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00193	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB10_0-2 **York Sample ID:** 25B1634-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:45 am	02/28/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	**gamma-Chlordane**	**0.00815**		mg/kg dry	0.00193	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
76-44-8	Heptachlor	ND		mg/kg dry	0.00193	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00193	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-43-5	Methoxychlor	ND		mg/kg dry	0.00193	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
8001-35-2	Toxaphene	ND		mg/kg dry	0.193	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0385	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:49	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*67.5 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*58.6 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0195	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0195	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0195	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0195	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0195	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0195	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0195	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0195	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:02	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*56.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*44.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB10_0-2** **York Sample ID:** **25B1634-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:45 am	02/28/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0232	1	EPA 8151A	03/07/2025 08:34	03/09/2025 14:09	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0232	1	EPA 8151A	03/07/2025 08:34	03/09/2025 14:09	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0232	1	EPA 8151A	03/07/2025 08:34	03/09/2025 14:09	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*73.4 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**14800**		mg/kg dry	4.90	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.45	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**5.47**		mg/kg dry	1.47	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**106**		mg/kg dry	2.45	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.513**		mg/kg dry	0.049	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.333**		mg/kg dry	0.294	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**8130**		mg/kg dry	4.90	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**30.7**		mg/kg dry	0.490	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**9.86**		mg/kg dry	0.392	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**40.0**		mg/kg dry	1.96	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**19600**		mg/kg dry	24.5	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**88.5**		mg/kg dry	0.490	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**6250**		mg/kg dry	4.90	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**381**		mg/kg dry	0.490	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**22.7**		mg/kg dry	0.976	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB10_0-2** **York Sample ID:** **25B1634-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:45 am	02/28/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**2250**		mg/kg dry	4.90	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.45	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.494	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**311**		mg/kg dry	49.0	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.96	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**39.2**		mg/kg dry	0.976	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**105**		mg/kg dry	2.44	1	EPA 6010D	03/04/2025 14:54	03/05/2025 16:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.107**		mg/kg dry	0.0353	1	EPA 7473	03/05/2025 16:22	03/06/2025 15:42	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.588	1	EPA 7196A	03/05/2025 09:02	03/05/2025 15:40	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**30.7**		mg/kg	0.500	1	Calculation	03/06/2025 13:13	03/06/2025 13:52	AD
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.588	1	EPA 9014/9010C	03/06/2025 09:16	03/06/2025 17:10	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB10_0-2** **York Sample ID:** **25B1634-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:45 am	02/28/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**85.0**		%	0.100	1	SM 2540G	03/04/2025 06:50	03/04/2025 09:25	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB10_5-7** **York Sample ID:** **25B1634-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:56 am	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.071	0.14	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.010**		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB10_5-7 **York Sample ID:** 25B1634-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:56 am	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.031**	ICVE	mg/kg dry	0.0071	0.014	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0071	0.014	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	**Carbon disulfide**	**0.0060**	J	mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB10_5-7 **York Sample ID:** 25B1634-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:56 am	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0071	0.014	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0071	0.014	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB10_5-7 **York Sample ID:** 25B1634-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:56 am	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.011	0.021	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*109 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*108 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.160	0.319	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.160	0.319	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.160	0.319	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB10_5-7 **York Sample ID:** 25B1634-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:56 am	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.160	0.319	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.160	0.319	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.160	0.319	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.160	0.319	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.160	0.319	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.320	0.640	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.320	0.640	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB10_5-7 **York Sample ID:** 25B1634-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:56 am	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.160	0.319	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.160	0.319	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.106**	J	mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB10_5-7 **York Sample ID:** 25B1634-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:56 am	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0800	0.160	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.320	0.640	2	EPA 8270E	03/07/2025 13:21	03/08/2025 04:36	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*92.3 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*83.5 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*81.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*80.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*83.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*79.1 %*	*24-116*

Sample Information

Client Sample ID: **SB10_5-7** **York Sample ID:** **25B1634-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:56 am	02/28/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.0	1	EPA 8270D SIM Certifications: NELAC-NY10854	03/06/2025 13:46	03/07/2025 22:12	SS

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*114 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.213	0.340	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.102	0.384	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.201	0.384	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.343	0.351	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.330	0.384	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.320	0.357	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.363	0.384	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.366	0.384	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.380	0.384	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.313	0.384	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.240	0.384	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.198	0.384	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.284	0.384	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.372	0.384	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.209	0.767	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.280	0.384	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM

Sample Information

Client Sample ID: SB10_5-7 **York Sample ID:** 25B1634-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:56 am	02/28/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.297	0.384	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.366	0.370	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	1.44	1.46	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	1.45	1.47	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.209	1.53	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.267	0.683	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 01:40	AM
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.370	0.767	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 01:40	AM
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ug/kg dry	0.119	0.767	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 01:40	AM
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.184	0.767	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 01:40	AM
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.301	0.361	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	1.14	1.44	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	1.17	1.53	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.597	1.45	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.472	1.44	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
919005-14-4	* ADONA	ND		ug/kg dry	0.334	1.45	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.324	0.372	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 01:40	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.238	0.368	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 01:40	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	1.22	1.92	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 01:40	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	4.03	9.59	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 01:40	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	2.88	9.59	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 01:40	AM
24448-09-7	* N-MeFOSE	ND		ug/kg dry	1.17	3.84	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 01:40	AM

Sample Information

Client Sample ID: SB10_5-7 **York Sample ID:** 25B1634-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:56 am	02/28/2025

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.345	0.384	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 01:40	AM
1691-99-2	* N-EtFOSE	ND		ug/kg dry	1.34	3.84	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 01:40	AM
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.380	0.384	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 01:40	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*124 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*107 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*111 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*126 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*105 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*104 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*99.3 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*94.7 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*81.1 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*106 %*		*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*120 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*102 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*125 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*189 %*	PFSu-H	*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*186 %*	PFSu-H	*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*135 %*		*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*294 %*	PFSu-H	*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*110 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*126 %*		*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*79.3 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*69.9 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*123 %*		*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*123 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*136 %*		*25-150*

Sample Information

Client Sample ID: SB10_5-7 **York Sample ID:** 25B1634-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:56 am	02/28/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00317	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00317	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00317	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		mg/kg dry	0.00317	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		mg/kg dry	0.00317	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00317	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:34	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
319-85-7	beta-BHC	ND		mg/kg dry	0.00317	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		mg/kg dry	0.00317	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		mg/kg dry	0.00317	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		mg/kg dry	0.00317	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00317	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00317	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		mg/kg dry	0.00317	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00317	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00317	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00317	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00317	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:34	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00317	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00317	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00317	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.317	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB10_5-7 **York Sample ID:** 25B1634-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:56 am	02/28/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0634	5	EPA 8081B Certifications:	03/07/2025 13:19	03/07/2025 18:34	RJ

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*97.8 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*86.1 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0320	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 13:18	03/08/2025 02:16	NF
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0320	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 13:18	03/08/2025 02:16	NF
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0320	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 13:18	03/08/2025 02:16	NF
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0320	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 13:18	03/08/2025 02:16	NF
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0320	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 13:18	03/08/2025 02:16	NF
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0320	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 13:18	03/08/2025 02:16	NF
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0320	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 13:18	03/08/2025 02:16	NF
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0320	1	EPA 8082A Certifications:	03/07/2025 13:18	03/08/2025 02:16	NF

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*75.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*61.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0385	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/07/2025 08:34	03/09/2025 14:16	GXB
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0385	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/07/2025 08:34	03/09/2025 14:16	GXB
94-75-7	2,4-D	ND		mg/kg dry	0.0385	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/07/2025 08:34	03/09/2025 14:16	GXB

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: SB10_5-7 **York Sample ID:** 25B1634-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:56 am	02/28/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*56.4 %*			*21-150*					

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**24200**		mg/kg dry	8.06	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	4.03	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**8.77**		mg/kg dry	2.42	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**104**		mg/kg dry	4.02	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.978**		mg/kg dry	0.081	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.483	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**3220**		mg/kg dry	8.06	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**63.9**		mg/kg dry	0.806	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**17.1**		mg/kg dry	0.644	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**55.6**		mg/kg dry	3.22	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**33900**		mg/kg dry	40.3	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**64.4**		mg/kg dry	0.806	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**8500**		mg/kg dry	8.06	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**488**		mg/kg dry	0.806	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**62.3**		mg/kg dry	1.61	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**4930**		mg/kg dry	8.06	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	4.03	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.812	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB10_5-7** **York Sample ID:** **25B1634-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:56 am	02/28/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**2360**		mg/kg dry	80.6	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	3.23	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**55.5**		mg/kg dry	1.61	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**114**		mg/kg dry	4.01	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**2.50**		mg/kg dry	0.0580	1	EPA 7473	03/05/2025 16:19	03/06/2025 14:36	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.967	1	EPA 7196A	03/05/2025 09:02	03/05/2025 15:40	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**63.9**		mg/kg	0.500	1	Calculation	03/06/2025 13:13	03/06/2025 13:52	AD
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.967	1	EPA 9014/9010C	03/06/2025 09:16	03/06/2025 17:10	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **SB10_5-7** **York Sample ID:** **25B1634-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 8:56 am	02/28/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**51.7**		%	0.100	1	SM 2540G	03/04/2025 06:50	03/04/2025 09:25	SMM
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: SB09_0-2 **York Sample ID:** 25B1634-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:05 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.042	0.084	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB09_0-2 **York Sample ID:** 25B1634-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:05 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0042	0.0084	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0042	0.0084	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB09_0-2 **York Sample ID:** 25B1634-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:05 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0042	0.0084	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0042	0.0084	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB09_0-2 **York Sample ID:** 25B1634-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:05 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0063	0.013	1	EPA 8260D	03/05/2025 15:26	03/05/2025 18:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*108 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0993	0.198	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0993	0.198	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0993	0.198	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB09_0-2 **York Sample ID:** 25B1634-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:05 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0993	0.198	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0993	0.198	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0993	0.198	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0993	0.198	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0993	0.198	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.133**		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.199	0.398	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.0683**	J	mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.199	0.398	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.280**		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB09_0-2** **York Sample ID:** **25B1634-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:05 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.187**		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.320**		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.123**		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.181**		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0993	0.198	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.275**		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0993	0.198	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.403**		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB09_0-2** **York Sample ID:** **25B1634-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:05 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.141**		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.141**		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.356**		mg/kg dry	0.0498	0.0993	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.199	0.398	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:06	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*84.6 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*75.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*69.5 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*74.7 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*74.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*74.3 %*	*24-116*

Sample Information

Client Sample ID: SB09_0-2 **York Sample ID:** 25B1634-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:05 pm	02/28/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM	03/06/2025 13:46	03/07/2025 22:27	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*94.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00197	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00197	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00197	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00197	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00197	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00197	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00197	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00197	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00197	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00197	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00197	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00197	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00197	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00197	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00197	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00197	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB09_0-2 **York Sample ID:** 25B1634-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:05 pm	02/28/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00197	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00197	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00197	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00197	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.197	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0394	5	EPA 8081B	03/07/2025 13:19	03/07/2025 18:51	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*89.4 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*78.8 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0199	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:30	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0199	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:30	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0199	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:30	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0199	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:30	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0199	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:30	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0199	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:30	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0199	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:30	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0199	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:30	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*60.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB09_0-2** **York Sample ID:** **25B1634-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:05 pm	02/28/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0240	1	EPA 8151A	03/07/2025 08:34	03/09/2025 14:23	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0240	1	EPA 8151A	03/07/2025 08:34	03/09/2025 14:23	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0240	1	EPA 8151A	03/07/2025 08:34	03/09/2025 14:23	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*89.2 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**16500**		mg/kg dry	5.01	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.51	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**4.41**		mg/kg dry	1.50	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**97.3**		mg/kg dry	2.50	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.559**		mg/kg dry	0.051	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.301	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1610**		mg/kg dry	5.01	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**39.7**		mg/kg dry	0.502	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**12.6**		mg/kg dry	0.400	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**26.2**		mg/kg dry	2.00	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**21100**		mg/kg dry	25.1	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**38.4**		mg/kg dry	0.502	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**4670**		mg/kg dry	5.02	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**377**		mg/kg dry	0.502	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**54.8**		mg/kg dry	0.998	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB09_0-2** **York Sample ID:** **25B1634-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:05 pm	02/28/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1660**		mg/kg dry	5.02	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.51	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.505	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**1230**		mg/kg dry	50.1	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.01	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**36.2**		mg/kg dry	0.998	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**59.6**		mg/kg dry	2.50	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0907**		mg/kg dry	0.0361	1	EPA 7473	03/05/2025 16:19	03/06/2025 14:36	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.601	1	EPA 7196A	03/05/2025 09:02	03/05/2025 15:40	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**39.7**		mg/kg	0.500	1	Calculation	03/06/2025 13:13	03/06/2025 13:52	AD
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.601	1	EPA 9014/9010C	03/06/2025 09:16	03/06/2025 17:10	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB09_0-2** **York Sample ID:** **25B1634-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:05 pm	02/28/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**83.1**		%	0.100	1	SM 2540G	03/04/2025 06:50	03/04/2025 09:25	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB09_5-7** **York Sample ID:** **25B1634-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:14 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.078	0.16	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.011**		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB09_5-7 **York Sample ID:** 25B1634-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:14 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.038**	ICVE	mg/kg dry	0.0078	0.016	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0078	0.016	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	**Carbon disulfide**	**0.015**		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB09_5-7 **York Sample ID:** 25B1634-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:14 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0078	0.016	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0078	0.016	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB09_5-7 **York Sample ID:** 25B1634-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:14 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.012	0.023	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*109 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*107 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*109 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.155	0.309	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.155	0.309	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.155	0.309	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB09_5-7 **York Sample ID:** 25B1634-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:14 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.155	0.309	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.155	0.309	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.155	0.309	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.155	0.309	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.155	0.309	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.310	0.620	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.0841**	J	mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.310	0.620	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.161**		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB09_5-7 **York Sample ID:** 25B1634-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:14 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.110**	J	mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.155	0.309	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.158**		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.155	0.309	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.313**		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB09_5-7** **York Sample ID:** **25B1634-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:14 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.217**		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.239**		mg/kg dry	0.0776	0.155	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.310	0.620	2	EPA 8270E	03/07/2025 13:21	03/08/2025 05:35	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*93.5 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*83.5 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*79.7 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*79.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*86.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*81.2 %*	*24-116*

Sample Information

Client Sample ID: SB09_5-7 **York Sample ID:** 25B1634-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:14 pm	02/28/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM	03/06/2025 13:46	03/07/2025 22:42	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*90.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00307	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00307	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00307	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00307	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00307	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00307	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00307	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00307	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00307	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00307	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00307	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00307	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00307	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00307	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00307	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00307	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB09_5-7 **York Sample ID:** 25B1634-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:14 pm	02/28/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00307	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00307	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00307	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00307	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.307	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0614	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:08	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*87.5 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*75.0 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0310	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:44	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0310	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:44	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0310	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:44	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0310	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:44	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0310	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:44	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0310	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:44	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0310	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:44	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0310	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:44	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*65.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*57.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SB09_5-7 **York Sample ID:** 25B1634-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:14 pm	02/28/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0370	1	EPA 8151A	03/07/2025 08:34	03/09/2025 14:30	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0370	1	EPA 8151A	03/07/2025 08:34	03/09/2025 14:30	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0370	1	EPA 8151A	03/07/2025 08:34	03/09/2025 14:30	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*76.0 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**22400**		mg/kg dry	7.81	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	3.90	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**5.92**		mg/kg dry	2.34	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**109**		mg/kg dry	3.90	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.711**		mg/kg dry	0.079	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.469	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**5500**		mg/kg dry	7.81	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**66.4**		mg/kg dry	0.782	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**19.4**		mg/kg dry	0.624	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**45.8**		mg/kg dry	3.12	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**27600**		mg/kg dry	39.0	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**31.7**		mg/kg dry	0.782	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**7090**		mg/kg dry	7.82	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**451**		mg/kg dry	0.782	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**81.5**		mg/kg dry	1.56	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB09_5-7** **York Sample ID:** **25B1634-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:14 pm	02/28/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**3580**		mg/kg dry	7.82	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	3.90	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.787	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**2040**		mg/kg dry	78.1	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	3.13	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**54.1**		mg/kg dry	1.56	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**77.5**		mg/kg dry	3.89	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.379**		mg/kg dry	0.0562	1	EPA 7473	03/05/2025 16:19	03/06/2025 14:36	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.937	1	EPA 7196A	03/05/2025 09:02	03/05/2025 15:40	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**66.4**		mg/kg	0.500	1	Calculation	03/06/2025 13:13	03/06/2025 13:52	AD
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.937	1	EPA 9014/9010C	03/06/2025 09:16	03/06/2025 17:10	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB09_5-7** **York Sample ID:** **25B1634-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:14 pm	02/28/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**53.4**		%	0.100	1	SM 2540G	03/04/2025 06:50	03/04/2025 09:25	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB08_0-2 **York Sample ID:** 25B1634-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:49 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.054	0.11	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB08_0-2 **York Sample ID:** 25B1634-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:49 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0054	0.011	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0054	0.011	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB08_0-2 **York Sample ID:** 25B1634-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:49 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0054	0.011	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0054	0.011	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB08_0-2** **York Sample ID:** **25B1634-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:49 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0081	0.016	1	EPA 8260D	03/05/2025 15:26	03/05/2025 19:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0944	0.188	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0944	0.188	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0944	0.188	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB08_0-2** **York Sample ID:** **25B1634-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:49 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0944	0.188	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0944	0.188	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0944	0.188	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0944	0.188	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0944	0.188	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.0732**	J	mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.189	0.378	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.170**		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.189	0.378	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.522**		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB08_0-2 **York Sample ID:** 25B1634-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:49 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.332**		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.345**		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.172**		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.337**		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.0694**	J	mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0944	0.188	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.515**		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	**Dibenzo(a,h)anthracene**	**0.0641**	J	mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0944	0.188	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**1.22**		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB08_0-2** **York Sample ID:** **25B1634-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:49 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.203**		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.596**		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.845**		mg/kg dry	0.0473	0.0944	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.189	0.378	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:05	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*86.0 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*75.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*71.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*73.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*72.8 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*75.9 %*	*24-116*

Sample Information

Client Sample ID: SB08_0-2 **York Sample ID:** 25B1634-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:49 pm	02/28/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM	03/06/2025 13:46	03/07/2025 22:57	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*86.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB08_0-2 **York Sample ID:** 25B1634-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:49 pm	02/28/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0375	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:26	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*101 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*86.4 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0189	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:58	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0189	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:58	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0189	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:58	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0189	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:58	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0189	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:58	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0189	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:58	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0189	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:58	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0189	1	EPA 8082A	03/07/2025 13:18	03/08/2025 02:58	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*58.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*46.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB08_0-2** **York Sample ID:** **25B1634-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:49 pm	02/28/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0228	1	EPA 8151A	03/07/2025 08:34	03/09/2025 14:38	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0228	1	EPA 8151A	03/07/2025 08:34	03/09/2025 14:38	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0228	1	EPA 8151A	03/07/2025 08:34	03/09/2025 14:38	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*81.0 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**12500**		mg/kg dry	4.76	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.38	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.48**		mg/kg dry	1.43	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**82.1**		mg/kg dry	2.38	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.392**		mg/kg dry	0.048	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.286	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1690**		mg/kg dry	4.76	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**30.2**		mg/kg dry	0.476	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**9.41**		mg/kg dry	0.381	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**23.3**		mg/kg dry	1.90	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**17200**		mg/kg dry	23.8	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**23.7**		mg/kg dry	0.476	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3520**		mg/kg dry	4.76	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**292**		mg/kg dry	0.476	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**33.9**		mg/kg dry	0.948	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB08_0-2** **York Sample ID:** **25B1634-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:49 pm	02/28/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1630**		mg/kg dry	4.76	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.38	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.480	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**148**		mg/kg dry	47.6	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.91	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**32.8**		mg/kg dry	0.948	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**45.2**		mg/kg dry	2.37	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.340**		mg/kg dry	0.0343	1	EPA 7473	03/05/2025 16:19	03/06/2025 14:36	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.571	1	EPA 7196A	03/05/2025 09:02	03/05/2025 15:40	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**30.2**		mg/kg	0.500	1	Calculation	03/06/2025 13:13	03/06/2025 13:52	AD
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.571	1	EPA 9014/9010C	03/06/2025 09:16	03/06/2025 17:10	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB08_0-2** **York Sample ID:** **25B1634-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:49 pm	02/28/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**87.5**		%	0.100	1	SM 2540G	03/04/2025 06:50	03/04/2025 09:25	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB08_5-7** **York Sample ID:** **25B1634-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:56 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.050	0.10	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.0053**		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB08_5-7 **York Sample ID:** 25B1634-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:56 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.022**	ICVE	mg/kg dry	0.0050	0.010	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0050	0.010	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB08_5-7 **York Sample ID:** 25B1634-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:56 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0050	0.010	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0050	0.010	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB08_5-7 **York Sample ID:** 25B1634-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:56 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0076	0.015	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*108 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0965	0.193	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0965	0.193	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0965	0.193	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB08_5-7 **York Sample ID:** 25B1634-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:56 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0965	0.193	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0965	0.193	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0965	0.193	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0965	0.193	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0965	0.193	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.0586**	J	mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.193	0.386	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.193	0.386	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.150**		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB08_5-7** **York Sample ID:** **25B1634-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:56 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.0879**	J	mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.126**		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.0956**	J	mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0965	0.193	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.147**		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0965	0.193	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.331**		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB08_5-7 **York Sample ID:** 25B1634-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:56 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.0501**	J	mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.143**		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.233**		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.193	0.386	2	EPA 8270E	03/07/2025 13:21	03/08/2025 06:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*87.4 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*77.5 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*78.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*77.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*81.9 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*82.0 %*	*24-116*

Sample Information

Client Sample ID: SB08_5-7 **York Sample ID:** 25B1634-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:56 pm	02/28/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM	03/06/2025 13:46	03/07/2025 23:12	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*86.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00191	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00191	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00191	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00191	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00191	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00191	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00191	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00191	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00191	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00191	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00191	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00191	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00191	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00191	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00191	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00191	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB08_5-7 **York Sample ID:** 25B1634-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:56 pm	02/28/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00191	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00191	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00191	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00191	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.191	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0382	5	EPA 8081B	03/07/2025 13:19	03/07/2025 19:43	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*92.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*74.1 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0193	1	EPA 8082A	03/07/2025 13:18	03/08/2025 03:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0193	1	EPA 8082A	03/07/2025 13:18	03/08/2025 03:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0193	1	EPA 8082A	03/07/2025 13:18	03/08/2025 03:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0193	1	EPA 8082A	03/07/2025 13:18	03/08/2025 03:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0193	1	EPA 8082A	03/07/2025 13:18	03/08/2025 03:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0193	1	EPA 8082A	03/07/2025 13:18	03/08/2025 03:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0193	1	EPA 8082A	03/07/2025 13:18	03/08/2025 03:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0193	1	EPA 8082A	03/07/2025 13:18	03/08/2025 03:11	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*62.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*54.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB08_5-7** **York Sample ID:** **25B1634-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:56 pm	02/28/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0228	1	EPA 8151A	03/07/2025 08:34	03/09/2025 14:45	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0228	1	EPA 8151A	03/07/2025 08:34	03/09/2025 14:45	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0228	1	EPA 8151A	03/07/2025 08:34	03/09/2025 14:45	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*76.2 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**16100**		mg/kg dry	4.87	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.43	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.67**		mg/kg dry	1.46	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**69.8**		mg/kg dry	2.43	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.520**		mg/kg dry	0.049	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.292	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1450**		mg/kg dry	4.87	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**42.0**		mg/kg dry	0.487	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**14.6**		mg/kg dry	0.389	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**20.2**		mg/kg dry	1.95	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**18000**		mg/kg dry	24.3	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**17.8**		mg/kg dry	0.487	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**4320**		mg/kg dry	4.87	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**247**		mg/kg dry	0.487	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**76.2**		mg/kg dry	0.970	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB08_5-7** **York Sample ID:** **25B1634-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:56 pm	02/28/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1210**		mg/kg dry	4.87	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.43	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.491	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**417**		mg/kg dry	48.7	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.95	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**33.9**		mg/kg dry	0.970	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**44.9**		mg/kg dry	2.42	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0391**		mg/kg dry	0.0351	1	EPA 7473	03/05/2025 16:19	03/06/2025 14:36	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.584	1	EPA 7196A	03/05/2025 09:02	03/05/2025 15:40	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**42.0**		mg/kg	0.500	1	Calculation	03/06/2025 13:13	03/06/2025 13:52	AD
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.584	1	EPA 9014/9010C	03/06/2025 09:16	03/06/2025 17:10	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB08_5-7** **York Sample ID:** **25B1634-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 12:56 pm	02/28/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**85.6**		%	0.100	1	SM 2540G	03/04/2025 06:50	03/04/2025 09:25	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB07_0-2 **York Sample ID:** 25B1634-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:13 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.058	0.12	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB07_0-2 **York Sample ID:** 25B1634-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:13 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0058	0.012	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0058	0.012	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB07_0-2 **York Sample ID:** 25B1634-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:13 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0058	0.012	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0058	0.012	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB07_0-2 **York Sample ID:** 25B1634-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:13 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0029	0.0058	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0087	0.017	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*108 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*107 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0948	0.189	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0948	0.189	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0948	0.189	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB07_0-2 **York Sample ID:** 25B1634-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:13 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0948	0.189	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0948	0.189	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0948	0.189	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0948	0.189	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0948	0.189	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.111**		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.190	0.380	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.161**		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.190	0.380	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.605**		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB07_0-2 **York Sample ID:** 25B1634-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:13 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.637**		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.602**		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.313**		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.523**		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0948	0.189	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.591**		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	**Dibenzo(a,h)anthracene**	**0.112**		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0948	0.189	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**1.29**		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB07_0-2 **York Sample ID:** 25B1634-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:13 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.367**	CCVE	mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.405**		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.817**		mg/kg dry	0.0475	0.0948	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.190	0.380	2	EPA 8270E	03/06/2025 13:10	03/06/2025 23:46	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*86.3 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*73.7 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*72.7 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*70.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*73.3 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*59.8 %*	*24-116*

Sample Information

Client Sample ID: **SB07_0-2** **York Sample ID:** **25B1634-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:13 pm	02/28/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM Certifications: NELAC-NY10854	03/06/2025 13:46	03/07/2025 23:27	SS

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*88.0 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.128	0.204	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**0.0786**	J	ug/kg dry	0.0610	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.121	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.206	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
335-67-1	**Perfluorooctanoic acid (PFOA)**	**0.425**		ug/kg dry	0.198	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**0.743**		ug/kg dry	0.192	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.218	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.220	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.228	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.188	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.144	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.119	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.170	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.223	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.126	0.461	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.168	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM

Sample Information

Client Sample ID: SB07_0-2 **York Sample ID:** 25B1634-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:13 pm	02/28/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.178	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.220	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.864	0.875	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.869	0.884	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.126	0.921	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.160	0.410	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 02:12	AM
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.222	0.461	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 02:12	AM
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ug/kg dry	0.0714	0.461	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 02:12	AM
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.111	0.461	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 02:12	AM
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.181	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.685	0.864	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.700	0.921	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.358	0.871	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.283	0.861	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
919005-14-4	* ADONA	ND		ug/kg dry	0.200	0.871	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.195	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 02:12	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.143	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/02/2025 12:44	03/06/2025 02:12	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.730	1.15	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 02:12	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.42	5.76	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 02:12	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.73	5.76	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 02:12	AM
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.704	2.30	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 02:12	AM

Sample Information

Client Sample ID: SB07_0-2 **York Sample ID:** 25B1634-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:13 pm	02/28/2025

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.207	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 02:12	AM
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.803	2.30	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 02:12	AM
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.228	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/02/2025 12:44	03/06/2025 02:12	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*117 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*107 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*113 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*116 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*116 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*112 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*122 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*116 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*86.8 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*17.3 %*	PFSu-L	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*120 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*97.4 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*102 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*142 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*159 %*	PFSu-H	*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*101 %*		*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*137 %*		*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*106 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*105 %*		*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*86.1 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*89.2 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*125 %*		*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*114 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*104 %*		*25-150*

Sample Information

Client Sample ID: **SB07_0-2** **York Sample ID:** **25B1634-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:13 pm	02/28/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00188	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	**4,4'-DDE**	**0.0113**		mg/kg dry	0.00188	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	**4,4'-DDT**	**0.00779**	P	mg/kg dry	0.00188	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		mg/kg dry	0.00188	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		mg/kg dry	0.00188	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00188	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:04	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
319-85-7	beta-BHC	ND		mg/kg dry	0.00188	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		mg/kg dry	0.00188	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		mg/kg dry	0.00188	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		mg/kg dry	0.00188	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00188	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00188	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		mg/kg dry	0.00188	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00188	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00188	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00188	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00188	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:04	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00188	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00188	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00188	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.188	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB07_0-2 **York Sample ID:** 25B1634-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:13 pm	02/28/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0376	5	EPA 8081B Certifications:	03/07/2025 13:19	03/07/2025 20:04	RJ

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*58.8 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*52.6 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 13:18	03/08/2025 03:25	NF
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 13:18	03/08/2025 03:25	NF
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 13:18	03/08/2025 03:25	NF
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 13:18	03/08/2025 03:25	NF
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 13:18	03/08/2025 03:25	NF
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 13:18	03/08/2025 03:25	NF
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 13:18	03/08/2025 03:25	NF
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0190	1	EPA 8082A Certifications:	03/07/2025 13:18	03/08/2025 03:25	NF

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*46.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*38.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0230	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/07/2025 08:34	03/09/2025 14:52	GXB
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0230	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/07/2025 08:34	03/09/2025 14:52	GXB
94-75-7	2,4-D	ND		mg/kg dry	0.0230	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/07/2025 08:34	03/09/2025 14:52	GXB

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: SB07_0-2 **York Sample ID:** 25B1634-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:13 pm	02/28/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*55.2 %*			*21-150*					

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**11500**		mg/kg dry	4.80	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.40	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**4.94**		mg/kg dry	1.44	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**106**		mg/kg dry	2.40	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.373**		mg/kg dry	0.048	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.288	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**11800**		mg/kg dry	4.80	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**27.7**		mg/kg dry	0.480	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**8.80**		mg/kg dry	0.383	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**38.0**		mg/kg dry	1.92	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**16900**		mg/kg dry	24.0	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**173**		mg/kg dry	0.480	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**5740**		mg/kg dry	4.80	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**284**		mg/kg dry	0.480	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**21.9**		mg/kg dry	0.956	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**1940**		mg/kg dry	4.80	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.40	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.484	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB07_0-2 **York Sample ID:** 25B1634-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:13 pm	02/28/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**304**		mg/kg dry	48.0	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.92	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**32.1**		mg/kg dry	0.956	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**131**		mg/kg dry	2.39	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.231**		mg/kg dry	0.0345	1	EPA 7473	03/05/2025 16:19	03/06/2025 14:36	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.576	1	EPA 7196A	03/05/2025 09:02	03/05/2025 15:40	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**27.7**		mg/kg	0.500	1	Calculation	03/06/2025 13:13	03/06/2025 13:52	AD
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.576	1	EPA 9014/9010C	03/06/2025 09:16	03/06/2025 17:10	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **SB07_0-2** **York Sample ID:** **25B1634-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:13 pm	02/28/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**86.8**		%	0.100	1	SM 2540G	03/04/2025 06:50	03/04/2025 09:25	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB07_5-7** **York Sample ID:** **25B1634-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:20 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.038	0.075	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.0035**	J	mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB07_5-7 **York Sample ID:** 25B1634-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:20 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.017**	ICVE	mg/kg dry	0.0038	0.0075	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB07_5-7 **York Sample ID:** 25B1634-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:20 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB07_5-7 **York Sample ID:** 25B1634-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:20 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/05/2025 15:26	03/05/2025 20:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0941	0.188	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB07_5-7 **York Sample ID:** 25B1634-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:20 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0941	0.188	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.188	0.377	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.188	0.377	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB07_5-7 **York Sample ID:** 25B1634-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:20 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.0744**	J	mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB07_5-7 **York Sample ID:** 25B1634-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:20 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.188	0.377	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:16	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*87.3 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*73.5 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*69.7 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*69.1 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*72.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*58.2 %*	*24-116*

Sample Information

Client Sample ID: SB07_5-7 **York Sample ID:** 25B1634-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:20 pm	02/28/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM	03/06/2025 13:46	03/07/2025 23:42	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*102 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00189	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00189	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00189	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00189	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00189	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00189	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00189	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00189	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00189	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00189	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00189	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00189	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00189	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00189	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00189	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00189	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB07_5-7 **York Sample ID:** 25B1634-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:20 pm	02/28/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00189	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00189	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00189	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00189	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.189	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0378	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:00	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*91.5 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*76.1 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0191	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0191	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0191	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0191	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0191	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0191	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0191	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0191	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:07	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*66.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*57.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SB07_5-7 **York Sample ID:** 25B1634-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:20 pm	02/28/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0231	1	EPA 8151A	03/07/2025 08:34	03/09/2025 15:28	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0231	1	EPA 8151A	03/07/2025 08:34	03/09/2025 15:28	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0231	1	EPA 8151A	03/07/2025 08:34	03/09/2025 15:28	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*85.6 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**10700**		mg/kg dry	4.82	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.41	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**1.47**		mg/kg dry	1.45	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**73.8**		mg/kg dry	2.41	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.246**		mg/kg dry	0.049	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.289	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1380**		mg/kg dry	4.82	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**39.6**		mg/kg dry	0.483	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**10.5**		mg/kg dry	0.386	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**21.4**		mg/kg dry	1.93	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**15500**		mg/kg dry	24.1	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**6.66**		mg/kg dry	0.483	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3950**		mg/kg dry	4.83	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**241**		mg/kg dry	0.483	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**69.0**		mg/kg dry	0.961	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB07_5-7 **York Sample ID:** 25B1634-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:20 pm	02/28/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1790**		mg/kg dry	4.83	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.41	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.486	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**318**		mg/kg dry	48.2	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.93	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**27.4**		mg/kg dry	0.961	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**26.6**		mg/kg dry	2.40	1	EPA 6010D	03/05/2025 14:35	03/06/2025 09:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0347	1	EPA 7473	03/05/2025 16:19	03/06/2025 14:36	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.579	1	EPA 7196A	03/05/2025 09:02	03/05/2025 15:40	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**39.6**		mg/kg	0.500	1	Calculation	03/06/2025 13:13	03/06/2025 13:52	AD
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.579	1	EPA 9014/9010C	03/06/2025 09:16	03/06/2025 17:10	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB07_5-7** **York Sample ID:** **25B1634-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 1:20 pm	02/28/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**86.4**		%	0.100	1	SM 2540G	03/04/2025 06:50	03/04/2025 09:25	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB06_0-2 **York Sample ID:** 25B1634-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 2:56 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.036	0.072	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB06_0-2 **York Sample ID:** 25B1634-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 2:56 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0036	0.0072	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0036	0.0072	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB06_0-2 **York Sample ID:** 25B1634-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 2:56 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0036	0.0072	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0036	0.0072	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB06_0-2 **York Sample ID:** 25B1634-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 2:56 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0054	0.011	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*111 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*107 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0927	0.185	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0927	0.185	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0927	0.185	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB06_0-2 **York Sample ID:** 25B1634-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 2:56 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0927	0.185	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0927	0.185	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0927	0.185	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0927	0.185	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0927	0.185	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	**Acenaphthene**	**0.124**		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.108**		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.186	0.371	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.266**		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.186	0.371	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.741**		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB06_0-2 **York Sample ID:** 25B1634-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 2:56 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.663**		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.681**		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.317**		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.586**		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.0623**	J	mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0927	0.185	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	**Carbazole**	**0.103**		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.730**		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	**Dibenzo(a,h)anthracene**	**0.117**		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	**Dibenzofuran**	**0.0578**	J	mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0927	0.185	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**1.84**		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB06_0-2 **York Sample ID:** 25B1634-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 2:56 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	**Fluorene**	**0.112**		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.386**	CCVE	mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.0593**	J	mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.910**		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**1.13**		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.186	0.371	2	EPA 8270E	03/06/2025 13:10	03/07/2025 00:45	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*83.7 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*71.3 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*72.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*70.1 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*69.0 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*61.6 %*	*24-116*

Sample Information

Client Sample ID: **SB06_0-2** **York Sample ID:** **25B1634-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 2:56 pm	02/28/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM	03/06/2025 13:46	03/07/2025 23:57	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*74.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	**4,4'-DDD**	**0.00407**	P	mg/kg dry	0.00182	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	**4,4'-DDE**	**0.0217**		mg/kg dry	0.00182	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	**4,4'-DDT**	**0.00497**		mg/kg dry	0.00182	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00182	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00182	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00182	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00182	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00182	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00182	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00182	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00182	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00182	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00182	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00182	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00182	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00182	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB06_0-2 **York Sample ID:** 25B1634-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 2:56 pm	02/28/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00182	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00182	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00182	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00182	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.182	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0365	5	EPA 8081B	03/07/2025 13:19	03/10/2025 13:47	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*69.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*55.3 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0184	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:20	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0184	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:20	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0184	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:20	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0184	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:20	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0184	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:20	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0184	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:20	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0184	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:20	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0184	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:20	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*56.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*45.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SB06_0-2 **York Sample ID:** 25B1634-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 2:56 pm	02/28/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0222	1	EPA 8151A	03/07/2025 08:34	03/09/2025 15:35	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0222	1	EPA 8151A	03/07/2025 08:34	03/09/2025 15:35	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0222	1	EPA 8151A	03/07/2025 08:34	03/09/2025 15:35	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*60.4 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**11900**		mg/kg dry	4.65	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.32	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**10.1**		mg/kg dry	1.39	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**99.3**		mg/kg dry	2.32	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.381**		mg/kg dry	0.047	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.316**		mg/kg dry	0.279	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**7480**		mg/kg dry	4.65	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**22.4**		mg/kg dry	0.465	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**6.97**		mg/kg dry	0.372	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**47.8**		mg/kg dry	1.86	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**15200**		mg/kg dry	23.2	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**98.5**		mg/kg dry	0.465	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3260**		mg/kg dry	4.65	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**226**		mg/kg dry	0.465	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**18.3**		mg/kg dry	0.926	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB06_0-2** **York Sample ID:** **25B1634-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 2:56 pm	02/28/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1390**		mg/kg dry	4.65	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.32	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.469	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**841**		mg/kg dry	46.5	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.86	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**32.6**		mg/kg dry	0.926	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**107**		mg/kg dry	2.32	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.211**		mg/kg dry	0.0335	1	EPA 7473	03/05/2025 16:19	03/06/2025 14:36	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.558	1	EPA 7196A	03/05/2025 17:15	03/05/2025 22:30	SML
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**22.4**		mg/kg	0.500	1	Calculation	03/06/2025 13:13	03/06/2025 13:52	AD
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.558	1	EPA 9014/9010C	03/06/2025 09:16	03/06/2025 17:10	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB06_0-2** **York Sample ID:** **25B1634-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 2:56 pm	02/28/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.6**		%	0.100	1	SM 2540G	03/04/2025 06:50	03/04/2025 09:25	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB06_5-7** **York Sample ID:** **25B1634-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:05 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.038	0.077	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.0099**		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB06_5-7 **York Sample ID:** 25B1634-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:05 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.030**	ICVE	mg/kg dry	0.0038	0.0077	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0038	0.0077	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	**Carbon disulfide**	**0.0025**	J	mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB06_5-7 **York Sample ID:** 25B1634-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:05 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0038	0.0077	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0038	0.0077	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB06_5-7 **York Sample ID:** 25B1634-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:05 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0019	0.0038	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0058	0.012	1	EPA 8260D	03/05/2025 15:26	03/05/2025 21:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*109 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*107 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*109 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0941	0.188	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB06_5-7 **York Sample ID:** 25B1634-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:05 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0941	0.188	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.188	0.377	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.188	0.377	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB06_5-7 **York Sample ID:** 25B1634-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:05 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB06_5-7 **York Sample ID:** 25B1634-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:05 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0471	0.0941	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.188	0.377	2	EPA 8270E	03/06/2025 13:10	03/07/2025 01:15	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*80.5 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*67.3 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*69.8 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*64.5 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*70.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*63.6 %*	*24-116*

Sample Information

Client Sample ID: SB06_5-7 **York Sample ID:** 25B1634-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:05 pm	02/28/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM	03/06/2025 13:46	03/08/2025 00:11	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*116 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB06_5-7 **York Sample ID:** 25B1634-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:05 pm	02/28/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.187	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0373	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:35	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*65.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*58.1 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0189	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:34	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0189	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:34	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0189	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:34	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0189	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:34	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0189	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:34	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0189	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:34	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0189	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:34	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0189	1	EPA 8082A	03/07/2025 13:18	03/08/2025 04:34	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*68.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*53.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SB06_5-7 **York Sample ID:** 25B1634-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:05 pm	02/28/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0228	1	EPA 8151A	03/07/2025 08:34	03/09/2025 15:42	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0228	1	EPA 8151A	03/07/2025 08:34	03/09/2025 15:42	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0228	1	EPA 8151A	03/07/2025 08:34	03/09/2025 15:42	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*74.6 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**18900**		mg/kg dry	4.76	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.38	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.65**		mg/kg dry	1.43	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**129**		mg/kg dry	2.38	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.478**		mg/kg dry	0.048	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.286	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**963**		mg/kg dry	4.76	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**69.5**		mg/kg dry	0.477	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**19.2**		mg/kg dry	0.381	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**32.5**		mg/kg dry	1.91	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**27600**		mg/kg dry	23.8	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**4.71**		mg/kg dry	0.477	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**7190**		mg/kg dry	4.77	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**354**		mg/kg dry	0.477	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**78.6**		mg/kg dry	0.949	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB06_5-7** **York Sample ID:** **25B1634-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:05 pm	02/28/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**4210**		mg/kg dry	4.77	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.38	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.480	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**664**	M-CCV 1	mg/kg dry	47.6	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.91	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**47.0**		mg/kg dry	0.949	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**44.9**		mg/kg dry	2.37	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0343	1	EPA 7473	03/05/2025 16:19	03/06/2025 14:36	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.572	1	EPA 7196A	03/05/2025 17:15	03/05/2025 22:30	SML
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**69.5**		mg/kg	0.500	1	Calculation	03/06/2025 13:13	03/06/2025 13:52	AD
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.572	1	EPA 9014/9010C	03/06/2025 09:16	03/06/2025 17:10	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB06_5-7** **York Sample ID:** **25B1634-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:05 pm	02/28/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**87.5**		%	0.100	1	SM 2540G	03/04/2025 06:51	03/04/2025 09:40	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SODUP02_022825** **York Sample ID:** **25B1634-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:00 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.078	0.16	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.010**		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SODUP02_022825** **York Sample ID:** **25B1634-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:00 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.032**	ICVE	mg/kg dry	0.0078	0.016	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0078	0.016	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	**Carbon disulfide**	**0.0049**	J	mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: **SODUP02_022825** **York Sample ID:** **25B1634-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:00 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0078	0.016	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0078	0.016	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SODUP02_022825** **York Sample ID:** **25B1634-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:00 pm	02/28/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.012	0.023	1	EPA 8260D	03/05/2025 15:26	03/05/2025 22:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*111 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*110 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.168	0.335	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.168	0.335	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND	CCVE	mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CCVE	mg/kg dry	0.168	0.335	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SODUP02_022825** **York Sample ID:** **25B1634-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:00 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.168	0.335	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.168	0.335	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.168	0.335	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.168	0.335	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.168	0.335	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.336	0.672	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.336	0.672	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.109**	J	mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SODUP02_022825** **York Sample ID:** **25B1634-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:00 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.199**		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.0859**	J	mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.0885**	J	mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CCVE	mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND	CAL-E	mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.0979**	J	mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.168	0.335	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.141**	J	mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.168	0.335	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.119**	J	mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SODUP02_022825** **York Sample ID:** **25B1634-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:00 pm	02/28/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND	CCVE	mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.106**	J	mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CCVE	mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.130**	J	mg/kg dry	0.0841	0.168	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.336	0.672	2	EPA 8270E	03/06/2025 13:10	03/07/2025 14:02	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*49.9 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*63.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*50.8 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*50.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*78.9 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*66.2 %*	*24-116*

Sample Information

Client Sample ID: **SODUP02_022825** **York Sample ID:** **25B1634-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:00 pm	02/28/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM Certifications: NELAC-NY10854	03/06/2025 13:46	03/08/2025 00:26	SS

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*90.0 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.224	0.357	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.107	0.403	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.212	0.403	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.361	0.369	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.347	0.403	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.337	0.375	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.381	0.403	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.385	0.403	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.399	0.403	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.329	0.403	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.252	0.403	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.208	0.403	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.299	0.403	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.391	0.403	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.220	0.807	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.295	0.403	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH

Sample Information

Client Sample ID: **SODUP02_022825** **York Sample ID:** **25B1634-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:00 pm	02/28/2025

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.313	0.403	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.385	0.389	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	1.51	1.53	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	1.52	1.55	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**0.790**	J	ug/kg dry	0.220	1.61	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.280	0.718	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 13:31	KFH
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.389	0.807	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 13:31	KFH
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ug/kg dry	0.125	0.807	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 13:31	KFH
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.194	0.807	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 13:31	KFH
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.317	0.379	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	1.20	1.51	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	1.23	1.61	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.627	1.53	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.496	1.51	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
919005-14-4	* ADONA	ND		ug/kg dry	0.351	1.53	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.341	0.391	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 13:31	KFH
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.250	0.387	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 13:31	KFH
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	1.28	2.02	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 13:31	KFH
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	4.23	10.1	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 13:31	KFH
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND	PF-CCV-L, PF-LCS-L	ug/kg dry	3.03	10.1	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 13:31	KFH

Sample Information

Client Sample ID: **SODUP02_022825** **York Sample ID:** **25B1634-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:00 pm	02/28/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
24448-09-7	* N-MeFOSE	ND		ug/kg dry	1.23	4.03	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 13:31	KFH
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.363	0.403	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 13:31	KFH
1691-99-2	* N-EtFOSE	ND		ug/kg dry	1.41	4.03	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 13:31	KFH
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.399	0.403	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 13:31	KFH

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*95.2 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*91.5 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*107 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*92.3 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*92.4 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*89.5 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*101 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*88.9 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*76.5 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*2.21 %*	PFSu-L	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*109 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*31.7 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*81.4 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*104 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*110 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*83.7 %*		*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*110 %*		*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*82.5 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*81.7 %*		*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*66.9 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*53.9 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*97.2 %*		*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*62.7 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*60.7 %*		*25-150*

Sample Information

Client Sample ID: SODUP02_022825 **York Sample ID:** 25B1634-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:00 pm	02/28/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00331	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00331	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00331	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		mg/kg dry	0.00331	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		mg/kg dry	0.00331	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00331	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:51	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
319-85-7	beta-BHC	ND		mg/kg dry	0.00331	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		mg/kg dry	0.00331	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		mg/kg dry	0.00331	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		mg/kg dry	0.00331	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00331	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00331	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		mg/kg dry	0.00331	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00331	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00331	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00331	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00331	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:51	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00331	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00331	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00331	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.331	5	EPA 8081B	03/07/2025 13:19	03/07/2025 20:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SODUP02_022825 **York Sample ID:** 25B1634-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:00 pm	02/28/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0662	5	EPA 8081B Certifications:	03/07/2025 13:19	03/07/2025 20:51	RJ

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*63.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*54.8 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0334	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 13:18	03/08/2025 04:48	NF
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0334	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 13:18	03/08/2025 04:48	NF
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0334	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 13:18	03/08/2025 04:48	NF
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0334	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 13:18	03/08/2025 04:48	NF
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0334	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 13:18	03/08/2025 04:48	NF
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0334	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 13:18	03/08/2025 04:48	NF
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0334	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 13:18	03/08/2025 04:48	NF
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0334	1	EPA 8082A Certifications:	03/07/2025 13:18	03/08/2025 04:48	NF

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*64.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*53.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0398	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/07/2025 08:34	03/09/2025 15:50	GXB
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0398	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/07/2025 08:34	03/09/2025 15:50	GXB
94-75-7	2,4-D	ND		mg/kg dry	0.0398	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/07/2025 08:34	03/09/2025 15:50	GXB

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **SODUP02_022825** **York Sample ID:** **25B1634-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:00 pm	02/28/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*63.4 %*			*21-150*					

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**24400**		mg/kg dry	8.44	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	4.22	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**21.9**		mg/kg dry	2.53	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**153**		mg/kg dry	4.21	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**1.15**		mg/kg dry	0.085	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.928**		mg/kg dry	0.506	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**2930**		mg/kg dry	8.44	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**87.5**		mg/kg dry	0.845	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**15.0**		mg/kg dry	0.675	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**200**		mg/kg dry	3.38	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**42100**		mg/kg dry	42.2	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**267**		mg/kg dry	0.845	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**9560**		mg/kg dry	8.45	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**591**		mg/kg dry	0.845	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**42.2**		mg/kg dry	1.68	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**5630**		mg/kg dry	8.45	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	4.22	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	**Silver**	**2.46**	M-CCV 1	mg/kg dry	0.851	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SODUP02_022825** **York Sample ID:** **25B1634-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:00 pm	02/28/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**2980**	M-CCV 1	mg/kg dry	84.4	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	3.38	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**57.1**		mg/kg dry	1.68	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**302**		mg/kg dry	4.20	1	EPA 6010D	03/05/2025 14:35	03/06/2025 10:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**3.29**		mg/kg dry	0.0608	1	EPA 7473	03/05/2025 16:19	03/06/2025 14:36	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	1.01	1	EPA 7196A	03/05/2025 17:15	03/05/2025 22:30	SML
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**87.5**		mg/kg	0.500	1	Calculation	03/06/2025 13:13	03/06/2025 13:52	AD
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	1.01	1	EPA 9014/9010C	03/06/2025 09:16	03/06/2025 17:10	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **SODUP02_022825** **York Sample ID:** **25B1634-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Soil	February 28, 2025 3:00 pm	02/28/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**49.4**		%	0.100	1	SM 2540G	03/04/2025 06:51	03/04/2025 09:40	SMM
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: SOTB01_022825 **York Sample ID:** 25B1634-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 3:00 pm	02/28/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SOTB01_022825 **York Sample ID:** 25B1634-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 3:00 pm	02/28/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND		ug/L	1.34	2.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SOTB01_022825 **York Sample ID:** 25B1634-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 3:00 pm	02/28/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SOTB01_022825** **York Sample ID:** **25B1634-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 3:00 pm	02/28/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/05/2025 09:39	03/05/2025 13:07	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.5 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*91.4 %*	*79-122*

Sample Information

Client Sample ID: **SOFB01_PFAS_022825** **York Sample ID:** **25B1634-16**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 9:38 am	02/28/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.465	1.75	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.346	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.703	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.673	1.81	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.416	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.811	1.84	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.515	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.742	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.12	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.871	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.732	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.683	1.98	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.782	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.02	1.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.228	3.96	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.871	1.98	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.900	1.89	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.31	1.91	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	7.42	7.52	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.03	7.60	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.327	7.92	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM

Sample Information

Client Sample ID: SOFB01_PFAS_022825 **York Sample ID:** 25B1634-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 9:38 am	02/28/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.495	3.52	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/06/2025 12:49	03/07/2025 13:42	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.12	3.96	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/06/2025 12:49	03/07/2025 13:42	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.247	3.96	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/06/2025 12:49	03/07/2025 13:42	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.366	3.96	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/06/2025 12:49	03/07/2025 13:42	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.752	1.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.77	7.42	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.20	7.92	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.37	7.48	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.693	7.40	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
919005-14-4	ADONA	ND		ng/L	0.524	7.48	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.920	1.92	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:42	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.851	1.90	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:42	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.01	4.95	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:42	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.25	24.7	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:42	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.37	24.7	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:42	AM
24448-09-7	* N-MeFOSE	ND		ng/L	3.95	19.8	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:42	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.56	1.98	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:42	AM
1691-99-2	* N-EtFOSE	ND		ng/L	3.95	19.8	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:42	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.78	1.98	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:42	AM

	Surrogate Recoveries	Result	Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*97.4 %*	*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*98.5 %*	*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*109 %*	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*96.9 %*	*25-150*

Sample Information

Client Sample ID: **SOFB01_PFAS_022825** **York Sample ID:** **25B1634-16**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 9:38 am	02/28/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*102 %*			*25-150*						
13C6PFDA	*Surrogate: M6PFDA*	*88.9 %*			*25-150*						
13C7PFUNA	*Surrogate: M7PFUdA*	*99.7 %*			*25-150*						
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*81.5 %*			*25-150*						
13C2PFTEDA	*Surrogate: M2PFTeDA*	*63.4 %*			*10-150*						
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*1.82 %*	PFSu-L		*25-150*						
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*96.2 %*			*25-150*						
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*44.9 %*			*25-150*						
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*108 %*			*10-150*						
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*104 %*			*25-150*						
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*123 %*			*25-150*						
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*100 %*			*25-200*						
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*111 %*			*25-200*						
13C9PFNA	*Surrogate: M9PFNA*	*94.3 %*			*25-150*						
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*117 %*			*25-150*						
936109-37-4	*Surrogate: d-N-MeFOSA*	*79.2 %*			*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*88.1 %*			*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*107 %*			*25-150*						
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*65.4 %*			*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*74.5 %*			*25-150*						

Sample Information

Client Sample ID: **SOFB01_022825** **York Sample ID:** **25B1634-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 9:45 am	02/28/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SOFB01_022825 **York Sample ID:** 25B1634-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 9:45 am	02/28/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND		ug/L	1.34	2.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: **SOFB01_022825** **York Sample ID:** **25B1634-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 9:45 am	02/28/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SOFB01_022825 **York Sample ID:** 25B1634-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 9:45 am	02/28/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/05/2025 09:39	03/05/2025 15:24	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.7 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*92.3 %*	*79-122*

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SOFB01_022825 **York Sample ID:** 25B1634-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 9:45 am	02/28/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-48-7	2-Methylphenol	ND		ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
99-09-2	3-Nitroaniline	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		ug/L	5.88	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		ug/L	5.88	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CCVE, QL-02, CAL-E	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SOFB01_022825** **York Sample ID:** **25B1634-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 9:45 am	02/28/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.18	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	NELAC-NY10854,PADEP-68-04440		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, QL-02	ug/L	5.88	11.8	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND	QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND	QL-02	ug/L	0.882	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE, QL-02	ug/L	2.94	5.88	1	EPA 8270D	03/04/2025 08:20	03/04/2025 19:23	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*44.5 %*	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*25.6 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*81.0 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*76.8 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*76.7 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*83.7 %*	*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SOFB01_022825** **York Sample ID:** **25B1634-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 9:45 am	02/28/2025

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0588	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		ug/L	0.0588	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-12-7	Anthracene	ND		ug/L	0.0588	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		ug/L	0.588	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0588	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0588	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0588	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0588	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0588	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.588	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	Chrysene	ND		ug/L	0.0588	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0588	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	Fluoranthene	ND		ug/L	0.0588	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	Fluorene	ND		ug/L	0.0588	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
118-74-1	Hexachlorobenzene	ND		ug/L	0.0235	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.588	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND		ug/L	0.588	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0588	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.0588**		ug/L	0.0588	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND	ICVE	ug/L	0.294	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.588	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-86-5	Pentachlorophenol	ND		ug/L	0.294	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
85-01-8	Phenanthrene	ND		ug/L	0.0588	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SOFB01_022825 **York Sample ID:** 25B1634-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 9:45 am	02/28/2025

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	Pyrene	ND		ug/L	0.0588	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 23:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270E SIM	03/04/2025 16:47	03/05/2025 19:16	SS
							Certifications: NJDEP-CT005,NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*104 %*	*36.6-118*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SOFB01_022825 **York Sample ID:** 25B1634-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 9:45 am	02/28/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B	03/04/2025 19:05	03/04/2025 23:12	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*49.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*45.8 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 16:06	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 16:06	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 16:06	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 16:06	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 16:06	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 16:06	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 16:06	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 16:06	NF
							Certifications:			

Sample Information

Client Sample ID: **SOFB01_022825** **York Sample ID:** **25B1634-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 9:45 am	02/28/2025

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*54.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*59.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	03/04/2025 08:00	03/04/2025 15:45	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	03/04/2025 08:00	03/04/2025 15:45	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	03/04/2025 08:00	03/04/2025 15:45	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*83.4 %*	*30-150*

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**3.35**	M-BS	mg/L	0.0556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**0.250**		mg/L	0.0556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SOFB01_022825** **York Sample ID:** **25B1634-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 9:45 am	02/28/2025

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**0.565**	M-BS	mg/L	0.0556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**1.62**		mg/L	0.556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**0.0831**		mg/L	0.0278	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-CCV 1	ug/L	1.11	1	EPA 6020B	03/05/2025 08:22	03/05/2025 16:34	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	03/05/2025 08:22	03/05/2025 16:34	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	03/05/2025 08:22	03/05/2025 16:34	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND	M-CCV 1	ug/L	0.556	1	EPA 6020B	03/05/2025 08:22	03/05/2025 16:34	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B	03/05/2025 08:22	03/05/2025 16:34	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/05/2025 08:22	03/05/2025 16:34	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/05/2025 08:09	03/05/2025 08:09	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **SOFB01_022825** **York Sample ID:** **25B1634-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 9:45 am	02/28/2025

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	02/28/2025 20:05	02/28/2025 20:53	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	03/06/2025 14:20	03/06/2025 14:20	AD
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C-2016 / E-2016	03/05/2025 17:13	03/05/2025 21:00	SML
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Analytical Batch Summary

Batch ID: BB52025 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-17	SOFB01_022825	02/28/25
BB52025-BLK1	Blank	02/28/25
BB52025-BS1	LCS	02/28/25

Batch ID: BC50033 **Preparation Method:** EPA 1633 Prep **Prepared By:** MPR

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-05	SB10_5-7	03/02/25
25B1634-10	SB07_0-2	03/02/25
BC50033-BLK1	Blank	03/02/25
BC50033-BS1	LCS	03/02/25
BC50033-BS2	LCS	03/02/25

Batch ID: BC50076 **Preparation Method:** EPA 8151A **Prepared By:** YL

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-17	SOFB01_022825	03/04/25
BC50076-BLK1	Blank	03/04/25
BC50076-BS1	LCS	03/04/25
BC50076-BSD1	LCS Dup	03/04/25

Batch ID: BC50146 **Preparation Method:** % Solids Prep **Prepared By:** SMM

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-04	SB10_0-2	03/04/25
25B1634-05	SB10_5-7	03/04/25
25B1634-06	SB09_0-2	03/04/25
25B1634-07	SB09_5-7	03/04/25
25B1634-08	SB08_0-2	03/04/25
25B1634-09	SB08_5-7	03/04/25
25B1634-10	SB07_0-2	03/04/25
25B1634-11	SB07_5-7	03/04/25
25B1634-12	SB06_0-2	03/04/25
BC50146-DUP1	Duplicate	03/04/25

Batch ID: BC50147 **Preparation Method:** % Solids Prep **Prepared By:** SMM

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-13	SB06_5-7	03/04/25
25B1634-14	SODUP02_022825	03/04/25

Batch ID: BC50159 **Preparation Method:** EPA 3510C **Prepared By:** SAC2

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-17	SOFB01_022825	03/04/25
BC50159-BLK1	Blank	03/04/25
BC50159-BS1	LCS	03/04/25
BC50159-BSD1	LCS Dup	03/04/25

Batch ID: BC50160 **Preparation Method:** EPA 3510C **Prepared By:** SAC2

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-17	SOFB01_022825	03/04/25
BC50160-BLK2	Blank	03/04/25
BC50160-BS2	LCS	03/04/25

Batch ID: BC50173 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** DCB

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-17	SOFB01_022825	03/04/25
BC50173-BLK1	Blank	03/04/25
BC50173-BS2	LCS	03/04/25
BC50173-BSD2	LCS Dup	03/04/25

Batch ID: BC50175 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** DCB

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-17	SOFB01_022825	03/04/25
BC50175-BLK1	Blank	03/04/25
BC50175-BS1	LCS	03/04/25
BC50175-BSD1	LCS Dup	03/04/25

Batch ID: BC50176 **Preparation Method:** EPA 3535A **Prepared By:** NMB2

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-17	SOFB01_022825	03/04/25
BC50176-BLK1	Blank	03/04/25
BC50176-BS1	LCS	03/04/25

Batch ID: BC50217 **Preparation Method:** EPA 3050B **Prepared By:** KMQ

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-04	SB10_0-2	03/04/25
BC50217-BLK1	Blank	03/04/25
BC50217-SRM1	Reference	03/04/25

Batch ID: BC50260 **Preparation Method:** EPA SW846-7470A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-17	SOFB01_022825	03/05/25
BC50260-BLK1	Blank	03/05/25
BC50260-BLK2	Blank	03/05/25
BC50260-BS1	LCS	03/05/25
BC50260-BS2	LCS	03/05/25

Batch ID: BC50264 **Preparation Method:** EPA 3015A **Prepared By:** DHD

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-17	SOFB01_022825	03/05/25
BC50264-BLK1	Blank	03/05/25
BC50264-BS1	LCS	03/05/25

Batch ID: BC50272 **Preparation Method:** EPA 5030B **Prepared By:** SCB

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-15	SOTB01_022825	03/05/25
25B1634-17	SOFB01_022825	03/05/25
BC50272-BLK1	Blank	03/05/25
BC50272-BS1	LCS	03/05/25
BC50272-BSD1	LCS Dup	03/05/25

Batch ID: BC50283 **Preparation Method:** EPA 3015A **Prepared By:** DHD

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-17	SOFB01_022825	03/05/25
BC50283-BLK1	Blank	03/05/25
BC50283-BS1	LCS	03/05/25
BC50283-DUP1	Duplicate	03/05/25
BC50283-MS1	Matrix Spike	03/05/25
BC50283-PS1	Post Spike	03/05/25

Batch ID: BC50286 **Preparation Method:** EPA SW846-3060 **Prepared By:** JAMT

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-04	SB10_0-2	03/05/25
25B1634-05	SB10_5-7	03/05/25
25B1634-06	SB09_0-2	03/05/25
25B1634-07	SB09_5-7	03/05/25
25B1634-08	SB08_0-2	03/05/25
25B1634-09	SB08_5-7	03/05/25
25B1634-10	SB07_0-2	03/05/25
25B1634-11	SB07_5-7	03/05/25
BC50286-BLK1	Blank	03/05/25
BC50286-SRM1	Reference	03/05/25

Batch ID: BC50328 **Preparation Method:** EPA 3050B **Prepared By:** KMQ

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-05	SB10_5-7	03/05/25
25B1634-06	SB09_0-2	03/05/25
25B1634-07	SB09_5-7	03/05/25
25B1634-08	SB08_0-2	03/05/25
25B1634-09	SB08_5-7	03/05/25
25B1634-10	SB07_0-2	03/05/25
25B1634-11	SB07_5-7	03/05/25
25B1634-12	SB06_0-2	03/05/25
25B1634-13	SB06_5-7	03/05/25
25B1634-14	SODUP02_022825	03/05/25
BC50328-BLK1	Blank	03/05/25
BC50328-SRM1	Reference	03/05/25

Batch ID: BC50336 **Preparation Method:** EPA 7473 soil **Prepared By:** DRS

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-05	SB10_5-7	03/05/25
25B1634-06	SB09_0-2	03/05/25
25B1634-07	SB09_5-7	03/05/25
25B1634-08	SB08_0-2	03/05/25
25B1634-09	SB08_5-7	03/05/25
25B1634-10	SB07_0-2	03/05/25
25B1634-11	SB07_5-7	03/05/25
25B1634-12	SB06_0-2	03/05/25
25B1634-13	SB06_5-7	03/05/25
25B1634-14	SODUP02_022825	03/05/25
BC50336-BLK1	Blank	03/05/25
BC50336-DUP1	Duplicate	03/05/25
BC50336-MS1	Matrix Spike	03/05/25
BC50336-SRM1	Reference	03/05/25

Batch ID: BC50337 **Preparation Method:** EPA 7473 soil **Prepared By:** DRS

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-04	SB10_0-2	03/05/25
BC50337-BLK1	Blank	03/05/25
BC50337-SRM1	Reference	03/05/25

Batch ID: BC50347 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-17	SOFB01_022825	03/05/25
BC50347-BLK1	Blank	03/05/25
BC50347-BS1	LCS	03/05/25

Batch ID: BC50348 **Preparation Method:** EPA SW846-3060 **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-12	SB06_0-2	03/05/25
25B1634-13	SB06_5-7	03/05/25
25B1634-14	SODUP02_022825	03/05/25
BC50348-BLK1	Blank	03/05/25
BC50348-SRM1	Reference	03/05/25

Batch ID: BC50394 **Preparation Method:** Analysis Preparation Soil **Prepared By:** LJM

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-04	SB10_0-2	03/06/25
25B1634-05	SB10_5-7	03/06/25
25B1634-06	SB09_0-2	03/06/25
25B1634-07	SB09_5-7	03/06/25
25B1634-08	SB08_0-2	03/06/25
25B1634-09	SB08_5-7	03/06/25
25B1634-10	SB07_0-2	03/06/25
25B1634-11	SB07_5-7	03/06/25
25B1634-12	SB06_0-2	03/06/25
25B1634-13	SB06_5-7	03/06/25
25B1634-14	SODUP02_022825	03/06/25
BC50394-BLK1	Blank	03/06/25
BC50394-SRM1	Reference	03/06/25

Batch ID: BC50414 **Preparation Method:** EPA 1633 Prep **Prepared By:** JLH

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-16	SOFB01_PFAS_022825	03/06/25
BC50414-BLK1	Blank	03/06/25
BC50414-BS1	LCS	03/06/25
BC50414-BS2	LCS	03/06/25

Batch ID: BC50420 **Preparation Method:** EPA 3550C **Prepared By:** JAA

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-10	SB07_0-2	03/06/25
25B1634-11	SB07_5-7	03/06/25
25B1634-12	SB06_0-2	03/06/25
25B1634-13	SB06_5-7	03/06/25
25B1634-14	SODUP02_022825	03/06/25
BC50420-BLK1	Blank	03/06/25
BC50420-BS1	LCS	03/06/25

Batch ID: BC50421 **Preparation Method:** Analysis Preparation **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-04	SB10_0-2	03/06/25

25B1634-05	SB10_5-7	03/06/25
25B1634-06	SB09_0-2	03/06/25
25B1634-07	SB09_5-7	03/06/25
25B1634-08	SB08_0-2	03/06/25
25B1634-09	SB08_5-7	03/06/25
25B1634-10	SB07_0-2	03/06/25
25B1634-11	SB07_5-7	03/06/25
25B1634-12	SB06_0-2	03/06/25
25B1634-13	SB06_5-7	03/06/25
25B1634-14	SODUP02_022825	03/06/25

Batch ID: BC50427 **Preparation Method:** EPA 3550C **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-04	SB10_0-2	03/06/25
25B1634-05	SB10_5-7	03/06/25
25B1634-06	SB09_0-2	03/06/25
25B1634-07	SB09_5-7	03/06/25
25B1634-08	SB08_0-2	03/06/25
25B1634-09	SB08_5-7	03/06/25
25B1634-10	SB07_0-2	03/06/25
25B1634-11	SB07_5-7	03/06/25
25B1634-12	SB06_0-2	03/06/25
25B1634-13	SB06_5-7	03/06/25
25B1634-14	SODUP02_022825	03/06/25
BC50427-BLK1	Blank	03/06/25
BC50427-BS1	LCS	03/06/25

Batch ID: BC50439 **Preparation Method:** Analysis Preparation **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-17	SOFB01_022825	03/06/25

Batch ID: BC50452 **Preparation Method:** EPA 5035A **Prepared By:** BMC

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-04	SB10_0-2	03/05/25
25B1634-05	SB10_5-7	03/05/25
25B1634-06	SB09_0-2	03/05/25
25B1634-07	SB09_5-7	03/05/25
25B1634-08	SB08_0-2	03/05/25
25B1634-09	SB08_5-7	03/05/25
25B1634-10	SB07_0-2	03/05/25
25B1634-11	SB07_5-7	03/05/25
25B1634-12	SB06_0-2	03/05/25
25B1634-13	SB06_5-7	03/05/25
25B1634-14	SODUP02_022825	03/05/25
BC50452-BLK1	Blank	03/05/25
BC50452-BS1	LCS	03/05/25
BC50452-BSD1	LCS Dup	03/05/25

Batch ID: BC50499 **Preparation Method:** EPA 3550C/8151A **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-04	SB10_0-2	03/07/25
25B1634-05	SB10_5-7	03/07/25
25B1634-06	SB09_0-2	03/07/25
25B1634-07	SB09_5-7	03/07/25
25B1634-08	SB08_0-2	03/07/25
25B1634-09	SB08_5-7	03/07/25
25B1634-10	SB07_0-2	03/07/25
25B1634-11	SB07_5-7	03/07/25
25B1634-12	SB06_0-2	03/07/25
25B1634-13	SB06_5-7	03/07/25
25B1634-14	SODUP02_022825	03/07/25
BC50499-BLK1	Blank	03/07/25
BC50499-BS1	LCS	03/07/25

Batch ID: BC50523 **Preparation Method:** EPA 1633 Prep **Prepared By:** JLH

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-14	SODUP02_022825	03/07/25
BC50523-BLK1	Blank	03/07/25
BC50523-BS1	LCS	03/07/25
BC50523-BS2	LCS	03/07/25

Batch ID: BC50538 **Preparation Method:** EPA 3550C **Prepared By:** JAA

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-04	SB10_0-2	03/07/25
25B1634-05	SB10_5-7	03/07/25
25B1634-06	SB09_0-2	03/07/25
25B1634-07	SB09_5-7	03/07/25
25B1634-08	SB08_0-2	03/07/25
25B1634-09	SB08_5-7	03/07/25
25B1634-10	SB07_0-2	03/07/25
25B1634-11	SB07_5-7	03/07/25
25B1634-12	SB06_0-2	03/07/25
25B1634-13	SB06_5-7	03/07/25
25B1634-14	SODUP02_022825	03/07/25
BC50538-BLK1	Blank	03/07/25
BC50538-BS2	LCS	03/07/25
BC50538-MS2	Matrix Spike	03/07/25
BC50538-MSD2	Matrix Spike Dup	03/07/25

Batch ID: BC50539 **Preparation Method:** EPA 3550C **Prepared By:** JAA

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-04	SB10_0-2	03/07/25

25B1634-05	SB10_5-7	03/07/25
25B1634-06	SB09_0-2	03/07/25
25B1634-07	SB09_5-7	03/07/25
25B1634-08	SB08_0-2	03/07/25
25B1634-09	SB08_5-7	03/07/25
25B1634-10	SB07_0-2	03/07/25
25B1634-11	SB07_5-7	03/07/25
25B1634-12	SB06_0-2	03/07/25
25B1634-13	SB06_5-7	03/07/25
25B1634-14	SODUP02_022825	03/07/25
BC50539-BLK1	Blank	03/07/25
BC50539-BS1	LCS	03/07/25
BC50539-MS1	Matrix Spike	03/07/25
BC50539-MSD1	Matrix Spike Dup	03/07/25

Batch ID: BC50540 **Preparation Method:** EPA 3550C **Prepared By:** JAA

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-04	SB10_0-2	03/07/25
25B1634-05	SB10_5-7	03/07/25
25B1634-06	SB09_0-2	03/07/25
25B1634-07	SB09_5-7	03/07/25
25B1634-08	SB08_0-2	03/07/25
25B1634-09	SB08_5-7	03/07/25
BC50540-BLK1	Blank	03/07/25
BC50540-BS1	LCS	03/07/25

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
Blank (BC50272-BLK1) Blank									Prepared & Analyzed: 03/05/2025		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
Blank (BC50272-BLK1) Blank							Prepared & Analyzed: 03/05/2025				
n-Butylbenzene	ND	0.500	ug/L								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.40*		*"*	*10.0*		*94.0*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.36*		*"*	*10.0*		*93.6*	*79-122*				
LCS (BC50272-BS1) LCS							Prepared & Analyzed: 03/05/2025				
1,1,1,2-Tetrachloroethane	9.58		ug/L	10.0		95.8	82-126				
1,1,1-Trichloroethane	9.50		"	10.0		95.0	78-136				
1,1,2,2-Tetrachloroethane	9.19		"	10.0		91.9	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8		"	10.0		108	54-165				
1,1,2-Trichloroethane	9.09		"	10.0		90.9	82-123				
1,1-Dichloroethane	9.29		"	10.0		92.9	82-129				
1,1-Dichloroethylene	9.89		"	10.0		98.9	68-138				
1,2,3-Trichlorobenzene	10.8		"	10.0		108	76-136				
1,2,3-Trichloropropane	8.77		"	10.0		87.7	77-128				
1,2,4-Trichlorobenzene	10.6		"	10.0		106	76-137				
1,2,4-Trimethylbenzene	9.62		"	10.0		96.2	82-132				
1,2-Dibromo-3-chloropropane	8.29		"	10.0		82.9	45-147				
1,2-Dibromoethane	9.24		"	10.0		92.4	83-124				
1,2-Dichlorobenzene	9.07		"	10.0		90.7	79-123				
1,2-Dichloroethane	9.54		"	10.0		95.4	73-132				
1,2-Dichloropropane	9.07		"	10.0		90.7	78-126				
1,3,5-Trimethylbenzene	9.27		"	10.0		92.7	80-131				
1,3-Dichlorobenzene	9.17		"	10.0		91.7	86-122				
1,4-Dichlorobenzene	9.14		"	10.0		91.4	85-124				
1,4-Dioxane	154		"	210		73.2	10-349				
2-Butanone	9.31		"	10.0		93.1	49-152				
2-Hexanone	9.14		"	10.0		91.4	51-146				
4-Methyl-2-pentanone	9.59		"	10.0		95.9	57-145				
Acetone	7.05		"	10.0		70.5	14-150				
Acrolein	14.0		"	10.0		140	10-153				
Acrylonitrile	10.7		"	10.0		107	51-150				
Benzene	10.0		"	10.0		100	85-126				
Bromochloromethane	9.62		"	10.0		96.2	77-128				
Bromodichloromethane	9.26		"	10.0		92.6	79-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
LCS (BC50272-BS1) LCS							Prepared & Analyzed: 03/05/2025				
Bromoform	10.2		ug/L	10.0		102	78-133				
Bromomethane	9.85		"	10.0		98.5	43-168				
Carbon disulfide	10.8		"	10.0		108	68-146				
Carbon tetrachloride	9.98		"	10.0		99.8	77-141				
Chlorobenzene	9.23		"	10.0		92.3	88-120				
Chloroethane	10.2		"	10.0		102	65-136				
Chloroform	9.55		"	10.0		95.5	82-128				
Chloromethane	9.93		"	10.0		99.3	43-155				
cis-1,2-Dichloroethylene	10.2		"	10.0		102	83-129				
cis-1,3-Dichloropropylene	9.26		"	10.0		92.6	80-131				
Cyclohexane	10.3		"	10.0		103	63-149				
Dibromochloromethane	9.52		"	10.0		95.2	80-130				
Dibromomethane	8.87		"	10.0		88.7	72-134				
Dichlorodifluoromethane	11.5		"	10.0		115	44-144				
Ethyl Benzene	9.37		"	10.0		93.7	80-131				
Hexachlorobutadiene	10.5		"	10.0		105	67-146				
Isopropylbenzene	8.88		"	10.0		88.8	76-140				
Methyl acetate	13.1		"	10.0		131	51-139				
Methyl tert-butyl ether (MTBE)	9.67		"	10.0		96.7	76-135				
Methylcyclohexane	9.45		"	10.0		94.5	72-143				
Methylene chloride	9.10		"	10.0		91.0	55-137				
n-Butylbenzene	9.79		"	10.0		97.9	79-132				
n-Propylbenzene	8.96		"	10.0		89.6	78-133				
o-Xylene	9.33		"	10.0		93.3	78-130				
p- & m- Xylenes	18.5		"	20.0		92.4	77-133				
p-Isopropyltoluene	9.72		"	10.0		97.2	81-136				
sec-Butylbenzene	9.17		"	10.0		91.7	79-137				
Styrene	9.82		"	10.0		98.2	67-132				
tert-Butyl alcohol (TBA)	59.2		"	50.0		118	25-162				
tert-Butylbenzene	9.10		"	10.0		91.0	77-138				
Tetrachloroethylene	6.02		"	10.0		60.2	82-131	Low Bias			
Toluene	9.14		"	10.0		91.4	80-127				
trans-1,2-Dichloroethylene	9.62		"	10.0		96.2	80-132				
trans-1,3-Dichloropropylene	9.55		"	10.0		95.5	78-131				
Trichloroethylene	8.91		"	10.0		89.1	82-128				
Trichlorofluoromethane	10.2		"	10.0		102	67-139				
Vinyl Chloride	10.2		"	10.0		102	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.59*		*"*	*10.0*		*95.9*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.56*		*"*	*10.0*		*95.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.58*		*"*	*10.0*		*95.8*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
LCS Dup (BC50272-BSD1) LCS Dup							Prepared & Analyzed: 03/05/2025				
1,1,1,2-Tetrachloroethane	10.0		ug/L	10.0		100	82-126		4.29	30	
1,1,1-Trichloroethane	9.69		"	10.0		96.9	78-136		1.98	30	
1,1,2,2-Tetrachloroethane	10.1		"	10.0		101	76-129		9.04	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0		"	10.0		110	54-165		1.93	30	
1,1,2-Trichloroethane	10.0		"	10.0		100	82-123		9.83	30	
1,1-Dichloroethane	9.51		"	10.0		95.1	82-129		2.34	30	
1,1-Dichloroethylene	10.1		"	10.0		101	68-138		2.00	30	
1,2,3-Trichlorobenzene	13.4		"	10.0		134	76-136		21.4	30	
1,2,3-Trichloropropane	9.68		"	10.0		96.8	77-128		9.86	30	
1,2,4-Trichlorobenzene	11.6		"	10.0		116	76-137		9.57	30	
1,2,4-Trimethylbenzene	9.25		"	10.0		92.5	82-132		3.92	30	
1,2-Dibromo-3-chloropropane	9.57		"	10.0		95.7	45-147		14.3	30	
1,2-Dibromoethane	10.3		"	10.0		103	83-124		11.0	30	
1,2-Dichlorobenzene	9.39		"	10.0		93.9	79-123		3.47	30	
1,2-Dichloroethane	10.2		"	10.0		102	73-132		6.98	30	
1,2-Dichloropropane	9.31		"	10.0		93.1	78-126		2.61	30	
1,3,5-Trimethylbenzene	8.92		"	10.0		89.2	80-131		3.85	30	
1,3-Dichlorobenzene	9.23		"	10.0		92.3	86-122		0.652	30	
1,4-Dichlorobenzene	9.21		"	10.0		92.1	85-124		0.763	30	
1,4-Dioxane	181		"	210		86.2	10-349		16.3	30	
2-Butanone	10.6		"	10.0		106	49-152		12.5	30	
2-Hexanone	11.1		"	10.0		111	51-146		19.4	30	
4-Methyl-2-pentanone	11.3		"	10.0		113	57-145		16.3	30	
Acetone	8.50		"	10.0		85.0	14-150		18.6	30	
Acrolein	15.8		"	10.0		158	10-153	High Bias	12.0	30	
Acrylonitrile	12.3		"	10.0		123	51-150		14.6	30	
Benzene	10.2		"	10.0		102	85-126		1.49	30	
Bromochloromethane	10.3		"	10.0		103	77-128		6.83	30	
Bromodichloromethane	9.63		"	10.0		96.3	79-128		3.92	30	
Bromoform	11.7		"	10.0		117	78-133		13.3	30	
Bromomethane	9.41		"	10.0		94.1	43-168		4.57	30	
Carbon disulfide	10.9		"	10.0		109	68-146		0.643	30	
Carbon tetrachloride	10.2		"	10.0		102	77-141		1.89	30	
Chlorobenzene	9.39		"	10.0		93.9	88-120		1.72	30	
Chloroethane	10.2		"	10.0		102	65-136		0.197	30	
Chloroform	9.87		"	10.0		98.7	82-128		3.30	30	
Chloromethane	9.89		"	10.0		98.9	43-155		0.404	30	
cis-1,2-Dichloroethylene	10.0		"	10.0		100	83-129		1.68	30	
cis-1,3-Dichloropropylene	9.61		"	10.0		96.1	80-131		3.71	30	
Cyclohexane	10.6		"	10.0		106	63-149		2.50	30	
Dibromochloromethane	10.5		"	10.0		105	80-130		9.41	30	
Dibromomethane	9.60		"	10.0		96.0	72-134		7.90	30	
Dichlorodifluoromethane	11.8		"	10.0		118	44-144		2.06	30	
Ethyl Benzene	9.40		"	10.0		94.0	80-131		0.320	30	
Hexachlorobutadiene	10.4		"	10.0		104	67-146		0.383	30	
Isopropylbenzene	8.53		"	10.0		85.3	76-140		4.02	30	
Methyl acetate	15.0		"	10.0		150	51-139	High Bias	13.6	30	
Methyl tert-butyl ether (MTBE)	11.0		"	10.0		110	76-135		13.2	30	
Methylcyclohexane	9.45		"	10.0		94.5	72-143		0.00	30	
Methylene chloride	9.48		"	10.0		94.8	55-137		4.09	30	
n-Butylbenzene	9.55		"	10.0		95.5	79-132		2.48	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
LCS Dup (BC50272-BSD1) LCS Dup								Prepared & Analyzed: 03/05/2025			
n-Propylbenzene	8.69		ug/L	10.0		86.9	78-133		3.06	30	
o-Xylene	9.42		"	10.0		94.2	78-130		0.960	30	
p- & m- Xylenes	18.6		"	20.0		93.0	77-133		0.647	30	
p-Isopropyltoluene	9.37		"	10.0		93.7	81-136		3.67	30	
sec-Butylbenzene	8.82		"	10.0		88.2	79-137		3.89	30	
Styrene	10.2		"	10.0		102	67-132		3.30	30	
tert-Butyl alcohol (TBA)	73.8		"	50.0		148	25-162		22.1	30	
tert-Butylbenzene	8.79		"	10.0		87.9	77-138		3.47	30	
Tetrachloroethylene	5.99		"	10.0		59.9	82-131	Low Bias	0.500	30	
Toluene	9.11		"	10.0		91.1	80-127		0.329	30	
trans-1,2-Dichloroethylene	9.72		"	10.0		97.2	80-132		1.03	30	
trans-1,3-Dichloropropylene	10.3		"	10.0		103	78-131		7.85	30	
Trichloroethylene	8.89		"	10.0		88.9	82-128		0.225	30	
Trichlorofluoromethane	10.3		"	10.0		103	67-139		1.76	30	
Vinyl Chloride	10.4		"	10.0		104	58-145		1.55	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.38*		*"*	*10.0*		*93.8*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.39*		*"*	*10.0*		*93.9*	*79-122*				
Batch BC50452 - EPA 5035A											
Blank (BC50452-BLK1) Blank								Prepared & Analyzed: 03/05/2025			
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50452 - EPA 5035A											
Blank (BC50452-BLK1) Blank								Prepared & Analyzed: 03/05/2025			
Bromoform	ND	0.0050	mg/kg wet								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.7*		*ug/L*	*50.0*		*101*	*77-125*				
Surrogate: SURR: Toluene-d8	*53.4*		*"*	*50.0*		*107*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*52.7*		*"*	*50.0*		*105*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50452 - EPA 5035A											
LCS (BC50452-BS1) LCS							Prepared & Analyzed: 03/05/2025				
1,1,1,2-Tetrachloroethane	51.6		ug/L	50.0		103	75-129				
1,1,1-Trichloroethane	46.1		"	50.0		92.3	71-137				
1,1,2,2-Tetrachloroethane	61.6		"	50.0		123	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	47.3		"	50.0		94.5	58-146				
1,1,2-Trichloroethane	55.6		"	50.0		111	83-123				
1,1-Dichloroethane	53.0		"	50.0		106	75-130				
1,1-Dichloroethylene	52.5		"	50.0		105	64-137				
1,2,3-Trichlorobenzene	53.3		"	50.0		107	81-140				
1,2,3-Trichloropropane	58.8		"	50.0		118	81-126				
1,2,4-Trichlorobenzene	54.1		"	50.0		108	80-141				
1,2,4-Trimethylbenzene	57.1		"	50.0		114	84-125				
1,2-Dibromo-3-chloropropane	59.2		"	50.0		118	74-142				
1,2-Dibromoethane	54.2		"	50.0		108	86-123				
1,2-Dichlorobenzene	54.6		"	50.0		109	85-122				
1,2-Dichloroethane	53.4		"	50.0		107	71-133				
1,2-Dichloropropane	58.9		"	50.0		118	81-122				
1,3,5-Trimethylbenzene	58.1		"	50.0		116	82-126				
1,3-Dichlorobenzene	54.6		"	50.0		109	84-124				
1,4-Dichlorobenzene	54.1		"	50.0		108	84-124				
1,4-Dioxane	1120		"	1050		107	10-228				
2-Butanone	44.4		"	50.0		88.8	58-147				
2-Hexanone	44.6		"	50.0		89.3	70-139				
4-Methyl-2-pentanone	37.7		"	50.0		75.4	72-132				
Acetone	25.6		"	50.0		51.1	36-155				
Acrolein	53.5		"	50.0		107	10-238				
Acrylonitrile	54.3		"	50.0		109	66-141				
Benzene	52.4		"	50.0		105	77-127				
Bromochloromethane	51.1		"	50.0		102	74-129				
Bromodichloromethane	59.2		"	50.0		118	81-124				
Bromoform	56.8		"	50.0		114	80-136				
Bromomethane	53.0		"	50.0		106	32-177				
Carbon disulfide	47.3		"	50.0		94.6	10-136				
Carbon tetrachloride	48.1		"	50.0		96.2	66-143				
Chlorobenzene	53.5		"	50.0		107	86-120				
Chloroethane	45.4		"	50.0		90.8	51-142				
Chloroform	52.4		"	50.0		105	76-131				
Chloromethane	33.5		"	50.0		67.0	49-132				
cis-1,2-Dichloroethylene	51.5		"	50.0		103	74-132				
cis-1,3-Dichloropropylene	49.8		"	50.0		99.7	81-129				
Cyclohexane	52.2		"	50.0		104	70-130				
Dibromochloromethane	58.9		"	50.0		118	10-200				
Dibromomethane	54.6		"	50.0		109	83-124				
Dichlorodifluoromethane	23.6		"	50.0		47.2	28-158				
Ethyl Benzene	57.4		"	50.0		115	84-125				
Hexachlorobutadiene	51.1		"	50.0		102	83-133				
Isopropylbenzene	57.2		"	50.0		114	81-127				
Methyl acetate	35.4		"	50.0		70.7	41-143				
Methyl tert-butyl ether (MTBE)	41.4		"	50.0		82.9	74-131				
Methylcyclohexane	52.1		"	50.0		104	70-130				
Methylene chloride	49.2		"	50.0		98.3	57-141				
n-Butylbenzene	60.3		"	50.0		121	80-130				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50452 - EPA 5035A											
LCS (BC50452-BS1) LCS							Prepared & Analyzed: 03/05/2025				
n-Propylbenzene	58.5		ug/L	50.0		117	74-136				
o-Xylene	55.2		"	50.0		110	83-123				
p- & m- Xylenes	112		"	100		112	82-128				
p-Isopropyltoluene	59.2		"	50.0		118	85-125				
sec-Butylbenzene	57.8		"	50.0		116	83-125				
Styrene	56.5		"	50.0		113	86-126				
tert-Butyl alcohol (TBA)	159		"	250		63.5	70-130	Low Bias			
tert-Butylbenzene	49.6		"	50.0		99.2	80-127				
Tetrachloroethylene	43.9		"	50.0		87.8	80-129				
Toluene	55.7		"	50.0		111	85-121				
trans-1,2-Dichloroethylene	52.6		"	50.0		105	72-132				
trans-1,3-Dichloropropylene	46.6		"	50.0		93.3	78-132				
Trichloroethylene	54.7		"	50.0		109	84-123				
Trichlorofluoromethane	43.6		"	50.0		87.2	62-140				
Vinyl Chloride	40.8		"	50.0		81.5	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.9*		*"*	*50.0*		*102*	*77-125*				
Surrogate: SURR: Toluene-d8	*52.8*		*"*	*50.0*		*106*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*52.1*		*"*	*50.0*		*104*	*76-130*				
LCS Dup (BC50452-BSD1) LCS Dup							Prepared & Analyzed: 03/05/2025				
1,1,1,2-Tetrachloroethane	49.8		ug/L	50.0		99.6	75-129		3.41	30	
1,1,1-Trichloroethane	45.1		"	50.0		90.1	71-137		2.35	30	
1,1,2,2-Tetrachloroethane	59.2		"	50.0		118	79-129		3.86	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	44.8		"	50.0		89.7	58-146		5.30	30	
1,1,2-Trichloroethane	53.2		"	50.0		106	83-123		4.37	30	
1,1-Dichloroethane	49.7		"	50.0		99.4	75-130		6.49	30	
1,1-Dichloroethylene	49.7		"	50.0		99.4	64-137		5.42	30	
1,2,3-Trichlorobenzene	52.0		"	50.0		104	81-140		2.39	30	
1,2,3-Trichloropropane	55.3		"	50.0		111	81-126		6.21	30	
1,2,4-Trichlorobenzene	52.2		"	50.0		104	80-141		3.61	30	
1,2,4-Trimethylbenzene	55.2		"	50.0		110	84-125		3.36	30	
1,2-Dibromo-3-chloropropane	55.1		"	50.0		110	74-142		7.04	30	
1,2-Dibromoethane	51.7		"	50.0		103	86-123		4.76	30	
1,2-Dichlorobenzene	53.9		"	50.0		108	85-122		1.40	30	
1,2-Dichloroethane	50.8		"	50.0		102	71-133		4.93	30	
1,2-Dichloropropane	56.1		"	50.0		112	81-122		4.97	30	
1,3,5-Trimethylbenzene	56.0		"	50.0		112	82-126		3.66	30	
1,3-Dichlorobenzene	51.7		"	50.0		103	84-124		5.46	30	
1,4-Dichlorobenzene	52.2		"	50.0		104	84-124		3.60	30	
1,4-Dioxane	1040		"	1050		99.1	10-228		7.18	30	
2-Butanone	41.8		"	50.0		83.7	58-147		5.94	30	
2-Hexanone	42.5		"	50.0		85.1	70-139		4.82	30	
4-Methyl-2-pentanone	35.8		"	50.0		71.6	72-132	Low Bias	5.20	30	
Acetone	23.3		"	50.0		46.7	36-155		9.12	30	
Acrolein	50.8		"	50.0		102	10-238		5.00	30	
Acrylonitrile	52.7		"	50.0		105	66-141		3.05	30	
Benzene	50.9		"	50.0		102	77-127		2.89	30	
Bromochloromethane	49.3		"	50.0		98.6	74-129		3.62	30	
Bromodichloromethane	56.1		"	50.0		112	81-124		5.38	30	
Bromoform	52.5		"	50.0		105	80-136		7.86	30	
Bromomethane	50.1		"	50.0		100	32-177		5.78	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50452 - EPA 5035A											
LCS Dup (BC50452-BSD1) LCS Dup							Prepared & Analyzed: 03/05/2025				
Carbon disulfide	45.3		ug/L	50.0		90.6	10-136		4.32	30	
Carbon tetrachloride	45.8		"	50.0		91.6	66-143		4.90	30	
Chlorobenzene	52.2		"	50.0		104	86-120		2.35	30	
Chloroethane	43.3		"	50.0		86.7	51-142		4.62	30	
Chloroform	50.8		"	50.0		102	76-131		3.06	30	
Chloromethane	31.7		"	50.0		63.4	49-132		5.40	30	
cis-1,2-Dichloroethylene	49.4		"	50.0		98.8	74-132		4.10	30	
cis-1,3-Dichloropropylene	47.8		"	50.0		95.6	81-129		4.20	30	
Cyclohexane	49.3		"	50.0		98.6	70-130		5.72	30	
Dibromochloromethane	55.8		"	50.0		112	10-200		5.56	30	
Dibromomethane	51.8		"	50.0		104	83-124		5.40	30	
Dichlorodifluoromethane	20.1		"	50.0		40.3	28-158		15.7	30	
Ethyl Benzene	54.5		"	50.0		109	84-125		5.20	30	
Hexachlorobutadiene	48.8		"	50.0		97.5	83-133		4.75	30	
Isopropylbenzene	55.4		"	50.0		111	81-127		3.23	30	
Methyl acetate	34.2		"	50.0		68.4	41-143		3.36	30	
Methyl tert-butyl ether (MTBE)	39.8		"	50.0		79.6	74-131		4.06	30	
Methylcyclohexane	49.2		"	50.0		98.4	70-130		5.84	30	
Methylene chloride	47.2		"	50.0		94.3	57-141		4.13	30	
n-Butylbenzene	56.9		"	50.0		114	80-130		5.73	30	
n-Propylbenzene	56.8		"	50.0		114	74-136		3.03	30	
o-Xylene	53.2		"	50.0		106	83-123		3.80	30	
p- & m- Xylenes	107		"	100		107	82-128		4.77	30	
p-Isopropyltoluene	57.5		"	50.0		115	85-125		2.93	30	
sec-Butylbenzene	55.3		"	50.0		111	83-125		4.40	30	
Styrene	54.6		"	50.0		109	86-126		3.40	30	
tert-Butyl alcohol (TBA)	147		"	250		58.8	70-130	Low Bias	7.73	30	
tert-Butylbenzene	48.0		"	50.0		95.9	80-127		3.34	30	
Tetrachloroethylene	42.2		"	50.0		84.3	80-129		4.09	30	
Toluene	52.9		"	50.0		106	85-121		5.16	30	
trans-1,2-Dichloroethylene	50.7		"	50.0		101	72-132		3.68	30	
trans-1,3-Dichloropropylene	44.2		"	50.0		88.4	78-132		5.37	30	
Trichloroethylene	52.6		"	50.0		105	84-123		3.95	30	
Trichlorofluoromethane	41.3		"	50.0		82.6	62-140		5.47	30	
Vinyl Chloride	38.7		"	50.0		77.4	52-130		5.19	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.7*		*"*	*50.0*		*101*	*77-125*				
Surrogate: SURR: Toluene-d8	*52.8*		*"*	*50.0*		*106*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*51.2*		*"*	*50.0*		*102*	*76-130*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50159 - EPA 3510C											
Blank (BC50159-BLK1) Blank									Prepared & Analyzed: 03/04/2025		
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Diphenylamine	ND	5.00	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Isophorone	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Phenol	ND	5.00	"								
Pyridine	ND	5.00	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50159 - EPA 3510C											
Blank (BC50159-BLK1) Blank								Prepared & Analyzed: 03/04/2025			
Surrogate: SURR: 2-Fluorophenol	*17.3*		*ug/L*	*50.0*		*34.5*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*8.91*		*"*	*50.0*		*17.8*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*15.5*		*"*	*25.0*		*62.2*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*15.6*		*"*	*25.0*		*62.3*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*37.5*		*"*	*50.0*		*74.9*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*20.9*		*"*	*25.0*		*83.6*	*30.7-106*				
LCS (BC50159-BS1) LCS								Prepared & Analyzed: 03/04/2025			
1,1-Biphenyl	6.47	5.00	ug/L	25.0		25.9	33-95	Low Bias			
1,2,4,5-Tetrachlorobenzene	5.59	5.00	"	25.0		22.4	26-120	Low Bias			
1,2-Diphenylhydrazine (as Azobenzene)	6.42	5.00	"	25.0		25.7	16-141				
2,3,4,6-Tetrachlorophenol	8.30	5.00	"	25.0		33.2	30-130				
2,4,5-Trichlorophenol	7.44	5.00	"	25.0		29.8	32-114	Low Bias			
2,4,6-Trichlorophenol	7.07	5.00	"	25.0		28.3	35-118	Low Bias			
2,4-Dichlorophenol	6.70	5.00	"	25.0		26.8	25-116				
2,4-Dimethylphenol	7.08	5.00	"	25.0		28.3	15-116				
2,4-Dinitrophenol	3.26	5.00	"	25.0		13.0	10-170				
2,4-Dinitrotoluene	7.51	5.00	"	25.0		30.0	41-128	Low Bias			
2,6-Dinitrotoluene	7.21	5.00	"	25.0		28.8	45-116	Low Bias			
2-Chloronaphthalene	5.96	5.00	"	25.0		23.8	33-112	Low Bias			
2-Chlorophenol	5.43	5.00	"	25.0		21.7	15-120				
2-Methylnaphthalene	5.44	5.00	"	25.0		21.8	24-118	Low Bias			
2-Methylphenol	5.01	5.00	"	25.0		20.0	10-110				
2-Nitroaniline	7.04	5.00	"	25.0		28.2	34-129	Low Bias			
2-Nitrophenol	6.69	5.00	"	25.0		26.8	28-118	Low Bias			
3- & 4-Methylphenols	4.00	5.00	"	25.0		16.0	10-107				
3,3-Dichlorobenzidine	5.13	5.00	"	25.0		20.5	15-187				
3-Nitroaniline	5.83	5.00	"	25.0		23.3	24-134	Low Bias			
4,6-Dinitro-2-methylphenol	4.61	5.00	"	25.0		18.4	10-153				
4-Bromophenyl phenyl ether	7.21	5.00	"	25.0		28.8	34-120	Low Bias			
4-Chloro-3-methylphenol	7.41	5.00	"	25.0		29.6	20-120				
4-Chloroaniline	4.17	5.00	"	25.0		16.7	10-147				
4-Chlorophenyl phenyl ether	7.18	5.00	"	25.0		28.7	27-121				
4-Nitroaniline	6.71	5.00	"	25.0		26.8	13-134				
4-Nitrophenol	ND	5.00	"	25.0			10-131	Low Bias			
Acetophenone	5.81	5.00	"	25.0		23.2	25-110	Low Bias			
Aniline	ND	5.00	"	25.0			10-117	Low Bias			
Benzaldehyde	6.00	5.00	"	25.0		24.0	29-117	Low Bias			
Benzoic acid	ND	5.00	"	25.0			30-130	Low Bias			
Benzyl alcohol	3.95	5.00	"	25.0		15.8	10-117				
Benzyl butyl phthalate	6.52	5.00	"	25.0		26.1	29-133	Low Bias			
Bis(2-chloroethoxy)methane	6.37	5.00	"	25.0		25.5	10-154				
Bis(2-chloroethyl)ether	5.73	5.00	"	25.0		22.9	17-125				
Bis(2-chloroisopropyl)ether	5.02	5.00	"	25.0		20.1	10-139				
Caprolactam	ND	5.00	"	25.0			10-137	Low Bias			
Carbazole	7.15	5.00	"	25.0		28.6	42-126	Low Bias			
Dibenzofuran	6.93	5.00	"	25.0		27.7	36-113	Low Bias			
Diethyl phthalate	7.69	5.00	"	25.0		30.8	38-115	Low Bias			
Dimethyl phthalate	7.30	5.00	"	25.0		29.2	38-129	Low Bias			
Di-n-butyl phthalate	7.32	5.00	"	25.0		29.3	31-120	Low Bias			
Di-n-octyl phthalate	6.57	5.00	"	25.0		26.3	21-149				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50159 - EPA 3510C											
LCS (BC50159-BS1) LCS							Prepared & Analyzed: 03/04/2025				
Diphenylamine	6.67	5.00	ug/L	25.0		26.7	40-140	Low Bias			
Hexachlorocyclopentadiene	ND	10.0	"	25.0			10-130	Low Bias			
Isophorone	6.89	5.00	"	25.0		27.6	25-127				
N-nitroso-di-n-propylamine	5.96	5.00	"	25.0		23.8	26-122	Low Bias			
N-Nitrosodiphenylamine	7.11	5.00	"	25.0		28.4	23-149				
Phenol	2.32	5.00	"	25.0		9.28	10-110	Low Bias			
Pyridine	ND	5.00	"	35.0			10-90	Low Bias			
Surrogate: SURR: 2-Fluorophenol	*6.99*		*"*	*50.0*		*14.0*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*3.95*		*"*	*50.0*		*7.90*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*6.49*		*"*	*25.0*		*26.0*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*6.42*		*"*	*25.0*		*25.7*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*14.6*		*"*	*50.0*		*29.1*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*7.71*		*"*	*25.0*		*30.8*	*30.7-106*				
LCS Dup (BC50159-BSD1) LCS Dup							Prepared & Analyzed: 03/04/2025				
1,1-Biphenyl	12.3	5.00	ug/L	25.0		49.2	33-95		62.2	20	Non-dir.
1,2,4,5-Tetrachlorobenzene	10.8	5.00	"	25.0		43.2	26-120		63.6	20	Non-dir.
1,2-Diphenylhydrazine (as Azobenzene)	12.1	5.00	"	25.0		48.3	16-141		61.1	20	Non-dir.
2,3,4,6-Tetrachlorophenol	12.2	5.00	"	25.0		48.8	30-130		38.0	20	Non-dir.
2,4,5-Trichlorophenol	14.4	5.00	"	25.0		57.8	32-114		64.0	20	Non-dir.
2,4,6-Trichlorophenol	13.6	5.00	"	25.0		54.4	35-118		63.2	20	Non-dir.
2,4-Dichlorophenol	13.4	5.00	"	25.0		53.4	25-116		66.3	20	Non-dir.
2,4-Dimethylphenol	14.0	5.00	"	25.0		56.2	15-116		66.0	20	Non-dir.
2,4-Dinitrophenol	6.52	5.00	"	25.0		26.1	10-170		66.7	20	Non-dir.
2,4-Dinitrotoluene	14.1	5.00	"	25.0		56.2	41-128		60.7	20	Non-dir.
2,6-Dinitrotoluene	13.6	5.00	"	25.0		54.3	45-116		61.3	20	Non-dir.
2-Chloronaphthalene	11.5	5.00	"	25.0		46.1	33-112		63.6	20	Non-dir.
2-Chlorophenol	11.4	5.00	"	25.0		45.6	15-120		70.9	20	Non-dir.
2-Methylnaphthalene	10.4	5.00	"	25.0		41.8	24-118		63.0	20	Non-dir.
2-Methylphenol	10.6	5.00	"	25.0		42.4	10-110		71.5	20	Non-dir.
2-Nitroaniline	13.5	5.00	"	25.0		53.9	34-129		62.8	20	Non-dir.
2-Nitrophenol	13.0	5.00	"	25.0		51.8	28-118		63.8	20	Non-dir.
3- & 4-Methylphenols	8.06	5.00	"	25.0		32.2	10-107		67.3	20	Non-dir.
3,3-Dichlorobenzidine	8.80	5.00	"	25.0		35.2	15-187		52.7	20	Non-dir.
3-Nitroaniline	12.5	5.00	"	25.0		50.0	24-134		72.8	20	Non-dir.
4,6-Dinitro-2-methylphenol	8.97	5.00	"	25.0		35.9	10-153		64.2	20	Non-dir.
4-Bromophenyl phenyl ether	13.2	5.00	"	25.0		52.8	34-120		58.6	20	Non-dir.
4-Chloro-3-methylphenol	14.2	5.00	"	25.0		56.8	20-120		62.9	20	Non-dir.
4-Chloroaniline	9.63	5.00	"	25.0		38.5	10-147		79.1	20	Non-dir.
4-Chlorophenyl phenyl ether	13.4	5.00	"	25.0		53.7	27-121		60.7	20	Non-dir.
4-Nitroaniline	12.6	5.00	"	25.0		50.3	13-134		60.8	20	Non-dir.
4-Nitrophenol	5.79	5.00	"	25.0		23.2	10-131		71.5	20	Non-dir.
Acetophenone	10.9	5.00	"	25.0		43.6	25-110		61.0	20	Non-dir.
Aniline	3.93	5.00	"	25.0		15.7	10-117		61.1	20	Non-dir.
Benzaldehyde	11.7	5.00	"	25.0		46.8	29-117		64.3	20	Non-dir.
Benzoic acid	2.84	5.00	"	25.0		11.4	30-130	Low Bias	113	20	Non-dir.
Benzyl alcohol	8.41	5.00	"	25.0		33.6	10-117		72.2	20	Non-dir.
Benzyl butyl phthalate	12.5	5.00	"	25.0		50.0	29-133		62.9	20	Non-dir.
Bis(2-chloroethoxy)methane	12.4	5.00	"	25.0		49.5	10-154		64.1	20	Non-dir.
Bis(2-chloroethyl)ether	11.6	5.00	"	25.0		46.6	17-125		68.1	20	Non-dir.
Bis(2-chloroisopropyl)ether	9.68	5.00	"	25.0		38.7	10-139		63.4	20	Non-dir.

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50159 - EPA 3510C											
LCS Dup (BC50159-BSD1) LCS Dup							Prepared & Analyzed: 03/04/2025				
Caprolactam	2.56	5.00	ug/L	25.0		10.2	10-137		66.7	20	Non-dir.
Carbazole	13.2	5.00	"	25.0		52.7	42-126		59.3	20	Non-dir.
Dibenzofuran	12.8	5.00	"	25.0		51.3	36-113		59.6	20	Non-dir.
Diethyl phthalate	15.0	5.00	"	25.0		59.9	38-115		64.3	20	Non-dir.
Dimethyl phthalate	14.3	5.00	"	25.0		57.2	38-129		64.9	20	Non-dir.
Di-n-butyl phthalate	13.8	5.00	"	25.0		55.0	31-120		61.0	20	Non-dir.
Di-n-octyl phthalate	12.5	5.00	"	25.0		49.9	21-149		62.0	20	Non-dir.
Diphenylamine	12.4	5.00	"	25.0		49.7	40-140		60.3	20	Non-dir.
Hexachlorocyclopentadiene	ND	10.0	"	25.0			10-130	Low Bias		20	
Isophorone	13.8	5.00	"	25.0		55.1	25-127		66.6	20	Non-dir.
N-nitroso-di-n-propylamine	11.2	5.00	"	25.0		45.0	26-122		61.5	20	Non-dir.
N-Nitrosodiphenylamine	12.5	5.00	"	25.0		50.0	23-149		55.0	20	Non-dir.
Phenol	4.96	5.00	"	25.0		19.8	10-110		72.5	20	Non-dir.
Pyridine	ND	5.00	"	35.0			10-90	Low Bias		20	
Surrogate: SURR: 2-Fluorophenol	*14.3*		*"*	*50.0*		*28.5*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*8.33*		*"*	*50.0*		*16.7*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*12.2*		*"*	*25.0*		*49.0*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*11.8*		*"*	*25.0*		*47.3*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*26.0*		*"*	*50.0*		*52.0*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*14.4*		*"*	*25.0*		*57.6*	*30.7-106*				
Batch BC50160 - EPA 3510C											
Blank (BC50160-BLK2) Blank							Prepared & Analyzed: 03/04/2025				
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50160 - EPA 3510C											
LCS (BC50160-BS2) LCS							Prepared & Analyzed: 03/04/2025				
Acenaphthene	0.690	0.0500	ug/L	0.625		110	25-116				
Acenaphthylene	0.840	0.0500	"	0.625		134	26-116	High Bias			
Anthracene	0.850	0.0500	"	0.625		136	25-123	High Bias			
Benzo(a)anthracene	0.880	0.0500	"	0.625		141	33-125	High Bias			
Benzo(a)pyrene	0.800	0.0500	"	0.625		128	32-132				
Benzo(b)fluoranthene	0.740	0.0500	"	0.625		118	22-137				
Benzo(g,h,i)perylene	1.24	0.0500	"	0.625		198	10-138	High Bias			
Benzo(k)fluoranthene	0.790	0.0500	"	0.625		126	20-137				
Bis(2-ethylhexyl)phthalate	1.08	0.500	"	0.625		173	10-189				
Chrysene	0.850	0.0500	"	0.625		136	32-124	High Bias			
Dibenzo(a,h)anthracene	1.19	0.0500	"	0.625		190	16-133	High Bias			
Fluoranthene	0.870	0.0500	"	0.625		139	32-121	High Bias			
Fluorene	0.790	0.0500	"	0.625		126	28-118	High Bias			
Hexachlorobenzene	0.840	0.0200	"	0.625		134	23-124	High Bias			
Hexachlorobutadiene	0.600	0.500	"	0.625		96.0	15-123				
Hexachloroethane	2.93	0.500	"	0.625		469	18-115	High Bias			
Indeno(1,2,3-cd)pyrene	1.15	0.0500	"	0.625		184	15-135	High Bias			
Naphthalene	0.660	0.0500	"	0.625		106	18-120				
Nitrobenzene	0.370	0.250	"	0.625		59.2	21-121				
N-Nitrosodimethylamine	ND	0.500	"	0.625			10-124	Low Bias			
Pentachlorophenol	0.360	0.250	"	0.625		57.6	10-156				
Phenanthrene	0.780	0.0500	"	0.625		125	24-127				
Pyrene	1.15	0.0500	"	0.625		184	31-132	High Bias			
Batch BC50420 - EPA 3550C											
Blank (BC50420-BLK1) Blank							Prepared: 03/06/2025 Analyzed: 03/07/2025				
1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50420 - EPA 3550C											
Blank (BC50420-BLK1) Blank										Prepared: 03/06/2025 Analyzed: 03/07/2025	
4-Chlorophenyl phenyl ether	ND	0.0416	mg/kg wet								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								
Caprolactam	ND	0.0830	"								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								
Dibenzofuran	ND	0.0416	"								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Pyridine	ND	0.166	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50420 - EPA 3550C											
Blank (BC50420-BLK1) Blank								Prepared: 03/06/2025 Analyzed: 03/07/2025			
Surrogate: SURR: 2-Fluorophenol	*1.25*		*mg/kg wet*	*1.66*		*75.4*	*30-108*				
Surrogate: SURR: Phenol-d6	*1.04*		*"*	*1.66*		*62.9*	*30-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.557*		*"*	*0.831*		*67.1*	*30-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.658*		*"*	*0.831*		*79.2*	*30-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.81*		*"*	*1.66*		*109*	*30-110*				
Surrogate: SURR: Terphenyl-d14	*0.667*		*"*	*0.831*		*80.3*	*30-116*				
LCS (BC50420-BS1) LCS								Prepared: 03/06/2025 Analyzed: 03/07/2025			
1,1-Biphenyl	0.685	0.0416	mg/kg wet	0.831		82.5	70-111				
1,2,4,5-Tetrachlorobenzene	0.795	0.0830	"	0.831		95.7	70-130				
1,2-Diphenylhydrazine (as Azobenzene)	0.502	0.0416	"	0.831		60.4	17-137				
2,3,4,6-Tetrachlorophenol	0.817	0.0830	"	0.831		98.4	70-130				
2,4,5-Trichlorophenol	0.893	0.0416	"	0.831		108	70-118				
2,4,6-Trichlorophenol	0.904	0.0416	"	0.831		109	70-120				
2,4-Dichlorophenol	0.911	0.0416	"	0.831		110	70-127				
2,4-Dimethylphenol	0.768	0.0416	"	0.831		92.5	70-130				
2,4-Dinitrophenol	0.453	0.0830	"	0.831		54.5	20-160				
2,4-Dinitrotoluene	0.760	0.0416	"	0.831		91.5	70-130				
2,6-Dinitrotoluene	0.754	0.0416	"	0.831		90.8	70-128				
2-Chloronaphthalene	0.712	0.0416	"	0.831		85.7	70-117				
2-Chlorophenol	0.643	0.0416	"	0.831		77.4	70-113				
2-Methylnaphthalene	0.685	0.0416	"	0.831		82.5	70-130				
2-Methylphenol	0.568	0.0416	"	0.831		68.4	70-130	Low Bias			
2-Nitroaniline	0.700	0.0830	"	0.831		84.3	70-130				
2-Nitrophenol	0.782	0.0416	"	0.831		94.2	70-129				
3- & 4-Methylphenols	0.506	0.0416	"	0.831		61.0	29-103				
3,3-Dichlorobenzidine	0.768	0.0416	"	0.831		92.4	70-130				
3-Nitroaniline	0.596	0.0830	"	0.831		71.8	70-130				
4,6-Dinitro-2-methylphenol	0.445	0.0830	"	0.831		53.6	70-130	Low Bias			
4-Bromophenyl phenyl ether	0.779	0.0416	"	0.831		93.8	70-120				
4-Chloro-3-methylphenol	0.733	0.0416	"	0.831		88.2	70-129				
4-Chloroaniline	0.442	0.0416	"	0.831		53.2	70-130	Low Bias			
4-Chlorophenyl phenyl ether	0.771	0.0416	"	0.831		92.9	70-124				
4-Nitroaniline	0.673	0.0830	"	0.831		81.0	70-128				
4-Nitrophenol	0.624	0.0830	"	0.831		75.1	20-141				
Acenaphthene	0.668	0.0416	"	0.831		80.4	70-121				
Acenaphthylene	0.697	0.0416	"	0.831		83.9	70-115				
Acetophenone	0.569	0.0416	"	0.831		68.5	70-112	Low Bias			
Aniline	0.377	0.166	"	0.831		45.4	10-119				
Anthracene	0.720	0.0416	"	0.831		86.6	70-118				
Atrazine	0.764	0.0416	"	0.831		92.0	70-112				
Benzaldehyde	0.574	0.0416	"	0.831		69.1	21-100				
Benzo(a)anthracene	0.804	0.0416	"	0.831		96.8	70-122				
Benzo(a)pyrene	0.792	0.0416	"	0.831		95.4	70-130				
Benzo(b)fluoranthene	0.833	0.0416	"	0.831		100	70-130				
Benzo(g,h,i)perylene	0.802	0.0416	"	0.831		96.5	70-130				
Benzo(k)fluoranthene	0.743	0.0416	"	0.831		89.4	70-128				
Benzoic acid	1.39	0.0416	"	0.831		167	10-140	High Bias			
Benzyl alcohol	0.537	0.0416	"	0.831		64.7	30-115				
Benzyl butyl phthalate	0.614	0.0416	"	0.831		73.9	70-126				
Bis(2-chloroethoxy)methane	0.562	0.0416	"	0.831		67.7	70-130	Low Bias			

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50420 - EPA 3550C											
LCS (BC50420-BS1) LCS								Prepared: 03/06/2025 Analyzed: 03/07/2025			
Bis(2-chloroethyl)ether	0.488	0.0416	mg/kg wet	0.831		58.7	70-125	Low Bias			
Bis(2-chloroisopropyl)ether	0.333	0.0416	"	0.831		40.1	70-130	Low Bias			
Bis(2-ethylhexyl)phthalate	0.638	0.0416	"	0.831		76.8	70-130				
Caprolactam	0.723	0.0830	"	0.831		87.0	20-127				
Carbazole	0.684	0.0416	"	0.831		82.4	70-123				
Chrysene	0.764	0.0416	"	0.831		92.0	70-123				
Dibenzo(a,h)anthracene	0.803	0.0416	"	0.831		96.7	70-130				
Dibenzofuran	0.729	0.0416	"	0.831		87.7	70-121				
Diethyl phthalate	0.672	0.0416	"	0.831		80.9	70-116				
Dimethyl phthalate	0.712	0.0416	"	0.831		85.8	70-124				
Di-n-butyl phthalate	0.641	0.0416	"	0.831		77.1	70-116				
Di-n-octyl phthalate	0.680	0.0416	"	0.831		81.9	70-130				
Diphenylamine	0.773	0.0830	"	0.831		93.0	40-140				
Fluoranthene	0.776	0.0416	"	0.831		93.4	70-122				
Fluorene	0.721	0.0416	"	0.831		86.8	70-123				
Hexachlorobenzene	0.599	0.0416	"	0.831		72.1	70-124				
Hexachlorobutadiene	1.03	0.0416	"	0.831		123	70-130				
Hexachlorocyclopentadiene	0.282	0.0416	"	0.831		33.9	20-129				
Hexachloroethane	0.523	0.0416	"	0.831		63.0	28-108				
Indeno(1,2,3-cd)pyrene	0.792	0.0416	"	0.831		95.4	70-130				
Isophorone	0.582	0.0416	"	0.831		70.1	70-130				
Naphthalene	0.692	0.0416	"	0.831		83.3	70-124				
Nitrobenzene	0.606	0.0416	"	0.831		73.0	70-130				
N-Nitrosodimethylamine	0.413	0.0416	"	0.831		49.7	11-129				
N-nitroso-di-n-propylamine	0.456	0.0416	"	0.831		55.0	70-119	Low Bias			
N-Nitrosodiphenylamine	0.733	0.0416	"	0.831		88.2	70-130				
Pentachlorophenol	0.889	0.0416	"	0.831		107	20-139				
Phenanthrene	0.695	0.0416	"	0.831		83.7	70-123				
Phenol	0.570	0.0416	"	0.831		68.6	23-115				
Pyrene	0.705	0.0416	"	0.831		84.9	70-130				
Pyridine	0.416	0.166	"	0.831		50.1	10-91				
Surrogate: SURR: 2-Fluorophenol	*1.20*		*"*	*1.66*		*72.3*	*30-108*				
Surrogate: SURR: Phenol-d6	*1.03*		*"*	*1.66*		*61.8*	*30-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.559*		*"*	*0.831*		*67.3*	*30-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.679*		*"*	*0.831*		*81.7*	*30-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.90*		*"*	*1.66*		*114*	*30-110*				
Surrogate: SURR: Terphenyl-d14	*0.688*		*"*	*0.831*		*82.8*	*30-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50540 - EPA 3550C											
Blank (BC50540-BLK1) Blank									Prepared: 03/07/2025 Analyzed: 03/10/2025		
1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								
Caprolactam	ND	0.0830	"								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50540 - EPA 3550C											
Blank (BC50540-BLK1) Blank									Prepared: 03/07/2025 Analyzed: 03/10/2025		
Dibenzofuran	ND	0.0416	mg/kg wet								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Pyridine	ND	0.166	"								
Surrogate: SURR: 2-Fluorophenol	*1.36*		*"*	*1.66*		*81.7*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.24*		*"*	*1.66*		*74.7*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.683*		*"*	*0.831*		*82.3*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.632*		*"*	*0.831*		*76.0*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.15*		*"*	*1.66*		*69.1*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.629*		*"*	*0.831*		*75.8*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50540 - EPA 3550C											
LCS (BC50540-BS1) LCS								Prepared: 03/07/2025 Analyzed: 03/10/2025			
1,1-Biphenyl	0.675	0.0416	mg/kg wet	0.831		81.2	18-111				
1,2,4,5-Tetrachlorobenzene	0.616	0.0830	"	0.831		74.2	21-131				
1,2-Diphenylhydrazine (as Azobenzene)	0.698	0.0416	"	0.831		84.0	17-137				
2,3,4,6-Tetrachlorophenol	0.720	0.0830	"	0.831		86.7	30-130				
2,4,5-Trichlorophenol	0.598	0.0416	"	0.831		72.0	27-118				
2,4,6-Trichlorophenol	0.668	0.0416	"	0.831		80.5	31-120				
2,4-Dichlorophenol	0.734	0.0416	"	0.831		88.3	20-127				
2,4-Dimethylphenol	0.723	0.0416	"	0.831		87.0	14-132				
2,4-Dinitrophenol	0.853	0.0830	"	0.831		103	10-171				
2,4-Dinitrotoluene	0.705	0.0416	"	0.831		84.9	34-131				
2,6-Dinitrotoluene	0.700	0.0416	"	0.831		84.3	31-128				
2-Chloronaphthalene	0.659	0.0416	"	0.831		79.4	31-117				
2-Chlorophenol	0.650	0.0416	"	0.831		78.3	33-113				
2-Methylnaphthalene	0.658	0.0416	"	0.831		79.2	12-138				
2-Methylphenol	0.654	0.0416	"	0.831		78.8	10-136				
2-Nitroaniline	0.670	0.0830	"	0.831		80.7	27-132				
2-Nitrophenol	0.687	0.0416	"	0.831		82.7	17-129				
3- & 4-Methylphenols	0.572	0.0416	"	0.831		68.9	29-103				
3,3-Dichlorobenzidine	0.580	0.0416	"	0.831		69.8	22-149				
3-Nitroaniline	0.447	0.0830	"	0.831		53.8	20-133				
4,6-Dinitro-2-methylphenol	0.894	0.0830	"	0.831		108	10-143				
4-Bromophenyl phenyl ether	0.625	0.0416	"	0.831		75.2	29-120				
4-Chloro-3-methylphenol	0.733	0.0416	"	0.831		88.2	24-129				
4-Chloroaniline	0.364	0.0416	"	0.831		43.8	10-132				
4-Chlorophenyl phenyl ether	0.674	0.0416	"	0.831		81.2	27-124				
4-Nitroaniline	0.585	0.0830	"	0.831		70.4	16-128				
4-Nitrophenol	ND	0.0830	"	0.831			10-141	Low Bias			
Acenaphthene	0.659	0.0416	"	0.831		79.3	30-121				
Acenaphthylene	0.683	0.0416	"	0.831		82.2	30-115				
Acetophenone	0.636	0.0416	"	0.831		76.5	20-112				
Aniline	0.522	0.166	"	0.831		62.8	10-119				
Anthracene	0.703	0.0416	"	0.831		84.6	34-118				
Atrazine	0.617	0.0416	"	0.831		74.3	26-112				
Benzaldehyde	0.567	0.0416	"	0.831		68.2	21-100				
Benzo(a)anthracene	0.753	0.0416	"	0.831		90.7	32-122				
Benzo(a)pyrene	0.707	0.0416	"	0.831		85.1	29-133				
Benzo(b)fluoranthene	0.735	0.0416	"	0.831		88.5	25-133				
Benzo(g,h,i)perylene	0.724	0.0416	"	0.831		87.2	10-143				
Benzo(k)fluoranthene	0.707	0.0416	"	0.831		85.1	25-128				
Benzoic acid	0.758	0.0416	"	0.831		91.2	10-140				
Benzyl alcohol	0.702	0.0416	"	0.831		84.6	30-115				
Benzyl butyl phthalate	0.758	0.0416	"	0.831		91.3	26-126				
Bis(2-chloroethoxy)methane	0.684	0.0416	"	0.831		82.4	19-132				
Bis(2-chloroethyl)ether	0.624	0.0416	"	0.831		75.2	19-125				
Bis(2-chloroisopropyl)ether	0.555	0.0416	"	0.831		66.8	20-135				
Bis(2-ethylhexyl)phthalate	0.727	0.0416	"	0.831		87.5	10-155				
Caprolactam	0.773	0.0830	"	0.831		93.1	10-127				
Carbazole	0.646	0.0416	"	0.831		77.8	35-123				
Chrysene	0.718	0.0416	"	0.831		86.4	32-123				
Dibenzo(a,h)anthracene	0.708	0.0416	"	0.831		85.3	10-136				
Dibenzofuran	0.655	0.0416	"	0.831		78.9	29-121				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50540 - EPA 3550C											
LCS (BC50540-BS1) LCS								Prepared: 03/07/2025 Analyzed: 03/10/2025			
Diethyl phthalate	0.695	0.0416	mg/kg wet	0.831		83.6	34-116				
Dimethyl phthalate	0.697	0.0416	"	0.831		83.9	35-124				
Di-n-butyl phthalate	0.756	0.0416	"	0.831		91.0	31-116				
Di-n-octyl phthalate	0.762	0.0416	"	0.831		91.8	26-136				
Diphenylamine	0.732	0.0830	"	0.831		88.2	40-140				
Fluoranthene	0.721	0.0416	"	0.831		86.8	33-122				
Fluorene	0.676	0.0416	"	0.831		81.4	29-123				
Hexachlorobenzene	0.639	0.0416	"	0.831		77.0	21-124				
Hexachlorobutadiene	0.784	0.0416	"	0.831		94.4	10-149				
Hexachlorocyclopentadiene	0.690	0.0416	"	0.831		83.1	10-129				
Hexachloroethane	0.671	0.0416	"	0.831		80.8	28-108				
Indeno(1,2,3-cd)pyrene	0.731	0.0416	"	0.831		88.0	10-135				
Isophorone	0.756	0.0416	"	0.831		91.0	20-132				
Naphthalene	0.727	0.0416	"	0.831		87.6	23-124				
Nitrobenzene	0.725	0.0416	"	0.831		87.3	13-132				
N-Nitrosodimethylamine	0.786	0.0416	"	0.831		94.6	11-129				
N-nitroso-di-n-propylamine	0.648	0.0416	"	0.831		78.0	24-119				
N-Nitrosodiphenylamine	0.716	0.0416	"	0.831		86.2	22-152				
Pentachlorophenol	0.288	0.0416	"	0.831		34.7	10-139				
Phenanthrene	0.697	0.0416	"	0.831		84.0	33-123				
Phenol	0.0402	0.0416	"	0.831		4.84	23-115	Low Bias			
Pyrene	0.707	0.0416	"	0.831		85.2	24-130				
Pyridine	0.649	0.166	"	0.831		78.2	10-91				
Surrogate: SURR: 2-Fluorophenol	*1.30*		*"*	*1.66*		*78.2*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.16*		*"*	*1.66*		*69.9*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.635*		*"*	*0.831*		*76.5*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.564*		*"*	*0.831*		*68.0*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.28*		*"*	*1.66*		*77.0*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.612*		*"*	*0.831*		*73.7*	*24-116*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50176 - EPA 3535A											
Blank (BC50176-BLK1) Blank							Prepared: 03/04/2025 Analyzed: 03/05/2025				
1,4-Dioxane	ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8	*4.16*		*"*	*4.00*		*104*	*36.6-118*				
LCS (BC50176-BS1) LCS							Prepared: 03/04/2025 Analyzed: 03/05/2025				
1,4-Dioxane	4.02	0.300	ug/L	4.00		100	50-130				
Surrogate: 1,4-Dioxane-d8	*3.84*		*"*	*4.00*		*96.0*	*36.6-118*				
Batch BC50427 - EPA 3550C											
Blank (BC50427-BLK1) Blank							Prepared: 03/06/2025 Analyzed: 03/07/2025				
1,4-Dioxane	ND	19.8	ug/kg								
Surrogate: 1,4-Dioxane-d8	*554*		*"*	*495*		*112*	*39-127.5*				
LCS (BC50427-BS1) LCS							Prepared: 03/06/2025 Analyzed: 03/07/2025				
1,4-Dioxane	449	19.8	ug/kg	495		90.6	40-130				
Surrogate: 1,4-Dioxane-d8	*446*		*"*	*495*		*90.0*	*39-127.5*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50033 - EPA 1633 Prep											
Blank (BC50033-BLK1) Blank									Prepared: 03/02/2025 Analyzed: 03/05/2025		
Perfluorobutanesulfonic acid (PFBS)	ND	0.177	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.200	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.200	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.183	"								
Perfluorooctanoic acid (PFOA)	ND	0.200	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.186	"								
Perfluorononanoic acid (PFNA)	ND	0.200	"								
Perfluorodecanoic acid (PFDA)	ND	0.200	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.200	"								
Perfluorododecanoic acid (PFDoA)	ND	0.200	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.200	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.200	"								
N-MeFOSAA	ND	0.200	"								
N-EtFOSAA	ND	0.200	"								
Perfluoropentanoic acid (PFPeA)	ND	0.400	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.200	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.200	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.193	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	0.760	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	0.768	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.800	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.356	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.400	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.400	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.400	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.188	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	ND	0.750	"								
HFPO-DA (Gen-X)	ND	0.800	"								
11CL-PF3OUdS	ND	0.756	"								
9CL-PF3ONS	ND	0.748	"								
ADONA	ND	0.756	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.194	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.192	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	1.00	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	5.00	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	5.00	"								
N-MeFOSE	ND	2.00	"								
N-MeFOSA	ND	0.200	"								
N-EtFOSE	ND	2.00	"								
N-EtFOSA	ND	0.200	"								
Surrogate: M3PFBS	*2.41*		*"*	*2.33*		*103*	*25-150*				
Surrogate: M5PFHxA	*2.92*		*"*	*2.50*		*117*	*25-150*				
Surrogate: M4PFHpA	*2.70*		*"*	*2.50*		*108*	*25-150*				
Surrogate: M3PFHxS	*2.66*		*"*	*2.37*		*112*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.75*		*"*	*2.50*		*110*	*25-150*				
Surrogate: M6PFDA	*1.28*		*"*	*1.25*		*103*	*25-150*				
Surrogate: M7PFUdA	*1.22*		*"*	*1.25*		*97.4*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.14*		*"*	*1.25*		*91.6*	*25-150*				
Surrogate: M2PFTeDA	*0.968*		*"*	*1.25*		*77.5*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50033 - EPA 1633 Prep											
Blank (BC50033-BLK1) Blank								Prepared: 03/02/2025 Analyzed: 03/05/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.404*		*ug/kg wet*	*10.0*		*4.04*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.04*		*"*	*2.40*		*85.3*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*1.23*		*"*	*5.00*		*24.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.32*		*"*	*2.50*		*92.7*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.52*		*"*	*5.00*		*90.4*	*25-150*				
Surrogate: d5-N-EtFOSAA	*5.20*		*"*	*5.00*		*104*	*25-150*				
Surrogate: M2-6:2 FTS	*4.88*		*"*	*4.76*		*103*	*25-200*				
Surrogate: M2-8:2 FTS	*4.99*		*"*	*4.80*		*104*	*25-200*				
Surrogate: M9PFNA	*1.39*		*"*	*1.25*		*111*	*25-150*				
Surrogate: M2-4:2 FTS	*5.04*		*"*	*4.69*		*107*	*25-150*				
Surrogate: d-N-MeFOSA	*1.84*		*"*	*2.50*		*73.5*	*25-150*				
Surrogate: d-N-EtFOSA	*1.95*		*"*	*2.50*		*77.8*	*25-150*				
Surrogate: M3HFPO-DA	*12.2*		*"*	*10.0*		*122*	*25-150*				
Surrogate: d9-N-EtFOSE	*17.4*		*"*	*25.0*		*69.7*	*25-150*				
Surrogate: d7-N-MeFOSE	*18.5*		*"*	*25.0*		*73.8*	*25-150*				
LCS (BC50033-BS1) LCS								Prepared: 03/02/2025 Analyzed: 03/05/2025			
Perfluorobutanesulfonic acid (PFBS)	3.67	0.177	ug/kg wet	3.54		104	50-150				
Perfluorohexanoic acid (PFHxA)	4.00	0.200	"	4.00		100	50-150				
Perfluoroheptanoic acid (PFHpA)	3.83	0.200	"	4.00		95.6	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.96	0.183	"	3.66		108	50-150				
Perfluorooctanoic acid (PFOA)	4.04	0.200	"	4.00		101	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.85	0.186	"	3.72		104	50-150				
Perfluorononanoic acid (PFNA)	4.16	0.200	"	4.00		104	50-150				
Perfluorodecanoic acid (PFDA)	3.84	0.200	"	4.00		96.0	50-150				
Perfluoroundecanoic acid (PFUnA)	4.08	0.200	"	4.00		102	50-150				
Perfluorododecanoic acid (PFDoA)	3.62	0.200	"	4.00		90.5	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.04	0.200	"	4.00		101	50-150				
Perfluorotetradecanoic acid (PFTA)	3.98	0.200	"	4.00		99.4	50-150				
N-MeFOSAA	4.67	0.200	"	4.00		117	50-150				
N-EtFOSAA	4.37	0.200	"	4.00		109	50-150				
Perfluoropentanoic acid (PFPeA)	8.30	0.400	"	8.00		104	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.16	0.200	"	4.00		104	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.21	0.200	"	3.82		110	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.72	0.193	"	3.86		96.4	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	15.5	0.760	"	15.2		102	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	13.9	0.768	"	15.4		90.7	50-150				
Perfluoro-n-butanoic acid (PFBA)	14.2	0.800	"	16.0		89.0	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.59	0.356	"	7.12		107	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	8.48	0.400	"	8.00		106	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	0.806	0.400	"	8.00		10.1	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	13.3	0.400	"	8.00		167	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	3.82	0.188	"	3.76		102	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	15.5	0.750	"	15.0		104	50-150				
HFPO-DA (Gen-X)	7.09	0.800	"	8.00		88.7	50-150				
11CL-PF3OUdS	5.15	0.756	"	7.56		68.2	50-150				
9CL-PF3ONS	5.38	0.748	"	7.48		71.9	50-150				
ADONA	6.38	0.756	"	7.56		84.4	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50033 - EPA 1633 Prep											
LCS (BC50033-BS1) LCS								Prepared: 03/02/2025 Analyzed: 03/05/2025			
Perfluorododecanesulfonic acid (PFDoS)	3.54	0.194	ug/kg wet	3.88		91.2	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	3.93	0.192	"	3.84		102	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	9.30	1.00	"	16.0		58.1	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	79.4	5.00	"	80.0		99.2	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	71.4	5.00	"	80.0		89.3	50-150				
N-MeFOSE	44.3	2.00	"	40.0		111	50-150				
N-MeFOSA	4.06	0.200	"	4.00		102	50-150				
N-EtFOSE	43.9	2.00	"	40.0		110	50-150				
N-EtFOSA	4.40	0.200	"	4.00		110	50-150				
Surrogate: M3PFBS	*3.12*		*"*	*2.33*		*134*	*25-150*				
Surrogate: M5PFHxA	*2.99*		*"*	*2.50*		*120*	*25-150*				
Surrogate: M4PFHpA	*2.85*		*"*	*2.50*		*114*	*25-150*				
Surrogate: M3PFHxS	*3.05*		*"*	*2.37*		*129*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.78*		*"*	*2.50*		*111*	*25-150*				
Surrogate: M6PFDA	*1.30*		*"*	*1.25*		*104*	*25-150*				
Surrogate: M7PFUdA	*1.27*		*"*	*1.25*		*102*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.14*		*"*	*1.25*		*91.2*	*25-150*				
Surrogate: M2PFTeDA	*1.06*		*"*	*1.25*		*85.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.415*		*"*	*10.0*		*4.15*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.38*		*"*	*2.40*		*99.4*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.13*		*"*	*5.00*		*62.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.56*		*"*	*2.50*		*102*	*10-150*				
Surrogate: d3-N-MeFOSAA	*5.91*		*"*	*5.00*		*118*	*25-150*				
Surrogate: d5-N-EtFOSAA	*6.18*		*"*	*5.00*		*124*	*25-150*				
Surrogate: M2-6:2 FTS	*6.55*		*"*	*4.76*		*138*	*25-200*				
Surrogate: M2-8:2 FTS	*8.31*		*"*	*4.80*		*173*	*25-200*				
Surrogate: M9PFNA	*1.32*		*"*	*1.25*		*106*	*25-150*				
Surrogate: M2-4:2 FTS	*6.94*		*"*	*4.69*		*148*	*25-150*				
Surrogate: d-N-MeFOSA	*1.90*		*"*	*2.50*		*76.1*	*25-150*				
Surrogate: d-N-EtFOSA	*1.88*		*"*	*2.50*		*75.0*	*25-150*				
Surrogate: M3HFPO-DA	*13.5*		*"*	*10.0*		*135*	*25-150*				
Surrogate: d9-N-EtFOSE	*19.4*		*"*	*25.0*		*77.8*	*25-150*				
Surrogate: d7-N-MeFOSE	*21.0*		*"*	*25.0*		*83.9*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50033 - EPA 1633 Prep											
LCS (BC50033-BS2) LCS								Prepared: 03/02/2025 Analyzed: 03/05/2025			
Perfluorobutanesulfonic acid (PFBS)	0.347	0.177	ug/kg wet	0.353		98.2	50-150				
Perfluorohexanoic acid (PFHxA)	0.364	0.200	"	0.399		91.1	50-150				
Perfluoroheptanoic acid (PFHpA)	0.396	0.200	"	0.399		99.1	50-150				
Perfluorohexanesulfonic acid (PFHxS)	0.364	0.183	"	0.365		99.5	50-150				
Perfluorooctanoic acid (PFOA)	0.387	0.200	"	0.399		96.8	50-150				
Perfluorooctanesulfonic acid (PFOS)	0.457	0.186	"	0.371		123	50-150				
Perfluorononanoic acid (PFNA)	0.379	0.200	"	0.399		95.0	50-150				
Perfluorodecanoic acid (PFDA)	0.356	0.200	"	0.399		89.3	50-150				
Perfluoroundecanoic acid (PFUnA)	0.376	0.200	"	0.399		94.2	50-150				
Perfluorododecanoic acid (PFDoA)	0.380	0.200	"	0.399		95.2	50-150				
Perfluorotridecanoic acid (PFTrDA)	0.437	0.200	"	0.399		110	50-150				
Perfluorotetradecanoic acid (PFTA)	0.364	0.200	"	0.399		91.1	50-150				
N-MeFOSAA	0.339	0.200	"	0.399		84.9	50-150				
N-EtFOSAA	0.498	0.200	"	0.399		125	50-150				
Perfluoropentanoic acid (PFPeA)	0.776	0.399	"	0.798		97.1	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	0.391	0.200	"	0.399		97.8	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.495	0.200	"	0.381		130	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	0.383	0.193	"	0.385		99.4	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	1.81	0.758	"	1.52		120	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	1.52	0.766	"	1.53		99.3	50-150				
Perfluoro-n-butanoic acid (PFBA)	1.43	0.798	"	1.60		89.3	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.713	0.355	"	0.711		100	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1.43	0.399	"	0.798		179	50-150	High Bias			
Perfluoro-4-oxapentanoic acid (PFMPA)	0.0962	0.399	"	0.798		12.1	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.03	0.399	"	0.798		129	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	0.395	0.188	"	0.375		105	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	1.68	0.749	"	1.50		112	50-150				
HFPO-DA (Gen-X)	0.710	0.798	"	0.798		89.0	50-150				
11CL-PF3OUdS	0.424	0.754	"	0.754		56.2	50-150				
9CL-PF3ONS	0.469	0.747	"	0.747		62.8	50-150				
ADONA	0.622	0.754	"	0.754		82.4	50-150				
Perfluorododecanesulfonic acid (PFDoS)	0.347	0.194	"	0.387		89.6	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	0.398	0.192	"	0.383		104	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	1.04	0.998	"	1.60		65.2	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	7.56	4.99	"	7.98		94.6	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	6.78	4.99	"	7.98		84.9	50-150				
N-MeFOSE	4.16	2.00	"	3.99		104	50-150				
N-MeFOSA	0.574	0.200	"	0.399		144	50-150				
N-EtFOSE	4.24	2.00	"	3.99		106	50-150				
N-EtFOSA	0.315	0.200	"	0.399		79.0	50-150				
Surrogate: M3PFBS	*2.22*		*"*	*2.33*		*95.4*	*25-150*				
Surrogate: M5PFHxA	*2.71*		*"*	*2.50*		*109*	*25-150*				
Surrogate: M4PFHpA	*2.47*		*"*	*2.50*		*98.9*	*25-150*				
Surrogate: M3PFHxS	*2.19*		*"*	*2.37*		*92.5*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.52*		*"*	*2.50*		*101*	*25-150*				
Surrogate: M6PFDA	*1.15*		*"*	*1.25*		*92.3*	*25-150*				
Surrogate: M7PFUdA	*1.16*		*"*	*1.25*		*93.0*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.940*		*"*	*1.25*		*75.3*	*25-150*				
Surrogate: M2PFTeDA	*0.848*		*"*	*1.25*		*68.0*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50033 - EPA 1633 Prep											
LCS (BC50033-BS2) LCS								Prepared: 03/02/2025 Analyzed: 03/05/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.489*		*ug/kg wet*	*9.98*		*4.90*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.87*		*"*	*2.39*		*78.2*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.75*		*"*	*4.99*		*75.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.14*		*"*	*2.50*		*85.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.61*		*"*	*4.99*		*92.4*	*25-150*				
Surrogate: d5-N-EtFOSAA	*5.28*		*"*	*4.99*		*106*	*25-150*				
Surrogate: M2-6:2 FTS	*3.80*		*"*	*4.75*		*80.0*	*25-200*				
Surrogate: M2-8:2 FTS	*4.65*		*"*	*4.79*		*97.1*	*25-200*				
Surrogate: M9PFNA	*1.18*		*"*	*1.25*		*94.7*	*25-150*				
Surrogate: M2-4:2 FTS	*4.40*		*"*	*4.68*		*94.0*	*25-150*				
Surrogate: d-N-MeFOSA	*1.50*		*"*	*2.50*		*60.3*	*25-150*				
Surrogate: d-N-EtFOSA	*1.64*		*"*	*2.50*		*65.6*	*25-150*				
Surrogate: M3HFPO-DA	*11.6*		*"*	*9.98*		*116*	*25-150*				
Surrogate: d9-N-EtFOSE	*15.2*		*"*	*25.0*		*61.1*	*25-150*				
Surrogate: d7-N-MeFOSE	*16.1*		*"*	*25.0*		*64.7*	*25-150*				
Batch BC50414 - EPA 1633 Prep											
Blank (BC50414-BLK1) Blank								Prepared: 03/06/2025 Analyzed: 03/07/2025			
Perfluorobutanesulfonic acid (PFBS)	ND	1.77	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.83	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	1.86	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	4.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.91	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.93	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	7.60	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	7.68	"								
Perfluoro-n-butanoic acid (PFBA)	ND	8.00	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.56	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	4.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	4.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	4.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.88	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	ND	7.50	"								
HFPO-DA (Gen-X)	ND	8.00	"								
11CL-PF3OUdS	ND	7.56	"								

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50414 - EPA 1633 Prep											
Blank (BC50414-BLK1) Blank								Prepared: 03/06/2025 Analyzed: 03/07/2025			
9CL-PF3ONS	ND	7.48	ng/L								
ADONA	ND	7.56	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	1.94	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.92	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	5.00	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	25.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	25.0	"								
N-MeFOSE	ND	20.0	"								
N-MeFOSA	ND	2.00	"								
N-EtFOSE	ND	20.0	"								
N-EtFOSA	ND	2.00	"								
Surrogate: M3PFBS	*32.4*		*"*	*23.3*		*139*	*25-150*				
Surrogate: M5PFHxA	*30.7*		*"*	*25.0*		*123*	*25-150*				
Surrogate: M4PFHpA	*34.1*		*"*	*25.0*		*136*	*25-150*				
Surrogate: M3PFHxS	*31.2*		*"*	*23.7*		*132*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*30.9*		*"*	*25.0*		*124*	*25-150*				
Surrogate: M6PFDA	*15.4*		*"*	*12.5*		*123*	*25-150*				
Surrogate: M7PFUdA	*16.7*		*"*	*12.5*		*133*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*15.1*		*"*	*12.5*		*121*	*25-150*				
Surrogate: M2PFTeDA	*9.93*		*"*	*12.5*		*79.4*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.30*		*"*	*100*		*2.30*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*25.1*		*"*	*24.0*		*105*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*27.2*		*"*	*50.0*		*54.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*27.1*		*"*	*25.0*		*108*	*10-150*				
Surrogate: d3-N-MeFOSAA	*46.8*		*"*	*50.0*		*93.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*47.8*		*"*	*50.0*		*95.6*	*25-150*				
Surrogate: M2-6:2 FTS	*69.4*		*"*	*47.6*		*146*	*25-200*				
Surrogate: M2-8:2 FTS	*61.8*		*"*	*48.0*		*129*	*25-200*				
Surrogate: M9PFNA	*16.5*		*"*	*12.5*		*132*	*25-150*				
Surrogate: M2-4:2 FTS	*75.0*		*"*	*46.9*		*160*	*25-150*				
Surrogate: d-N-MeFOSA	*25.4*		*"*	*25.0*		*101*	*25-150*				
Surrogate: d-N-EtFOSA	*21.8*		*"*	*25.0*		*87.0*	*25-150*				
Surrogate: M3HFPO-DA	*139*		*"*	*100*		*139*	*25-150*				
Surrogate: d9-N-EtFOSE	*135*		*"*	*250*		*54.1*	*25-150*				
Surrogate: d7-N-MeFOSE	*153*		*"*	*250*		*61.2*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50414 - EPA 1633 Prep											
LCS (BC50414-BS1) LCS								Prepared: 03/06/2025 Analyzed: 03/07/2025			
Perfluorobutanesulfonic acid (PFBS)	34.9	1.77	ng/L	35.4		98.6	50-150				
Perfluorohexanoic acid (PFHxA)	40.4	2.00	"	40.0		101	50-150				
Perfluoroheptanoic acid (PFHpA)	38.5	2.00	"	40.0		96.2	50-150				
Perfluorohexanesulfonic acid (PFHxS)	37.7	1.83	"	36.6		103	50-150				
Perfluorooctanoic acid (PFOA)	41.0	2.00	"	40.0		103	50-150				
Perfluorooctanesulfonic acid (PFOS)	37.5	1.86	"	37.2		101	50-150				
Perfluorononanoic acid (PFNA)	42.0	2.00	"	40.0		105	50-150				
Perfluorodecanoic acid (PFDA)	38.8	2.00	"	40.0		97.1	50-150				
Perfluoroundecanoic acid (PFUnA)	36.1	2.00	"	40.0		90.3	50-150				
Perfluorododecanoic acid (PFDoA)	39.6	2.00	"	40.0		99.1	50-150				
Perfluorotridecanoic acid (PFTrDA)	54.4	2.00	"	40.0		136	50-150				
Perfluorotetradecanoic acid (PFTA)	38.4	2.00	"	40.0		96.0	50-150				
N-MeFOSAA	43.1	2.00	"	40.0		108	50-150				
N-EtFOSAA	46.4	2.00	"	40.0		116	50-150				
Perfluoropentanoic acid (PFPeA)	82.1	4.00	"	80.0		103	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	43.0	2.00	"	40.0		108	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	41.1	1.91	"	38.2		108	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	32.8	1.93	"	38.6		84.9	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	161	7.60	"	152		106	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	137	7.68	"	154		89.2	50-150				
Perfluoro-n-butanoic acid (PFBA)	134	8.00	"	160		84.1	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	83.9	3.56	"	71.2		118	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	80.4	4.00	"	80.0		101	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	13.2	4.00	"	80.0		16.4	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	131	4.00	"	80.0		164	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	37.6	1.88	"	37.6		100	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	165	7.50	"	150		110	50-150				
HFPO-DA (Gen-X)	97.2	8.00	"	80.0		122	50-150				
11CL-PF3OUdS	67.4	7.56	"	75.6		89.2	50-150				
9CL-PF3ONS	80.0	7.48	"	74.8		107	50-150				
ADONA	83.6	7.56	"	75.6		111	50-150				
Perfluorododecanesulfonic acid (PFDoS)	24.0	1.94	"	38.8		61.8	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	37.2	1.92	"	38.4		96.9	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	83.8	5.00	"	160		52.4	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	891	25.0	"	800		111	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	860	25.0	"	800		108	50-150				
N-MeFOSE	445	20.0	"	400		111	50-150				
N-MeFOSA	38.2	2.00	"	40.0		95.5	50-150				
N-EtFOSE	423	20.0	"	400		106	50-150				
N-EtFOSA	37.9	2.00	"	40.0		94.8	50-150				
Surrogate: M3PFBS	*30.1*		*"*	*23.3*		*129*	*25-150*				
Surrogate: M5PFHxA	*30.5*		*"*	*25.0*		*122*	*25-150*				
Surrogate: M4PFHpA	*32.9*		*"*	*25.0*		*132*	*25-150*				
Surrogate: M3PFHxS	*30.6*		*"*	*23.7*		*129*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*31.5*		*"*	*25.0*		*126*	*25-150*				
Surrogate: M6PFDA	*16.5*		*"*	*12.5*		*132*	*25-150*				
Surrogate: M7PFUdA	*16.6*		*"*	*12.5*		*133*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*12.0*		*"*	*12.5*		*96.1*	*25-150*				
Surrogate: M2PFTeDA	*8.45*		*"*	*12.5*		*67.6*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50414 - EPA 1633 Prep											
LCS (BC50414-BS1) LCS								Prepared: 03/06/2025 Analyzed: 03/07/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.31*		*ng/L*	*100*		*2.31*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*31.8*		*"*	*24.0*		*133*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*28.3*		*"*	*50.0*		*56.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*33.3*		*"*	*25.0*		*133*	*10-150*				
Surrogate: d3-N-MeFOSAA	*73.0*		*"*	*50.0*		*146*	*25-150*				
Surrogate: d5-N-EtFOSAA	*69.0*		*"*	*50.0*		*138*	*25-150*				
Surrogate: M2-6:2 FTS	*69.3*		*"*	*47.6*		*146*	*25-200*				
Surrogate: M2-8:2 FTS	*87.8*		*"*	*48.0*		*183*	*25-200*				
Surrogate: M9PFNA	*15.8*		*"*	*12.5*		*126*	*25-150*				
Surrogate: M2-4:2 FTS	*68.3*		*"*	*46.9*		*146*	*25-150*				
Surrogate: d-N-MeFOSA	*29.7*		*"*	*25.0*		*119*	*25-150*				
Surrogate: d-N-EtFOSA	*25.5*		*"*	*25.0*		*102*	*25-150*				
Surrogate: M3HFPO-DA	*121*		*"*	*100*		*121*	*25-150*				
Surrogate: d9-N-EtFOSE	*162*		*"*	*250*		*64.8*	*25-150*				
Surrogate: d7-N-MeFOSE	*182*		*"*	*250*		*72.9*	*25-150*				
LCS (BC50414-BS2) LCS								Prepared: 03/06/2025 Analyzed: 03/07/2025			
Perfluorobutanesulfonic acid (PFBS)	4.11	1.77	ng/L	3.54		116	50-150				
Perfluorohexanoic acid (PFHxA)	3.75	2.00	"	4.00		93.7	50-150				
Perfluoroheptanoic acid (PFHpA)	3.44	2.00	"	4.00		86.0	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.82	1.83	"	3.66		104	50-150				
Perfluorooctanoic acid (PFOA)	3.96	2.00	"	4.00		99.0	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.09	1.86	"	3.72		83.2	50-150				
Perfluorononanoic acid (PFNA)	3.67	2.00	"	4.00		91.7	50-150				
Perfluorodecanoic acid (PFDA)	3.25	2.00	"	4.00		81.2	50-150				
Perfluoroundecanoic acid (PFUnA)	4.18	2.00	"	4.00		104	50-150				
Perfluorododecanoic acid (PFDoA)	3.51	2.00	"	4.00		87.9	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.73	2.00	"	4.00		118	50-150				
Perfluorotetradecanoic acid (PFTA)	3.67	2.00	"	4.00		91.7	50-150				
N-MeFOSAA	3.77	2.00	"	4.00		94.2	50-150				
N-EtFOSAA	3.70	2.00	"	4.00		92.5	50-150				
Perfluoropentanoic acid (PFPeA)	7.66	4.00	"	8.00		95.7	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.04	2.00	"	4.00		101	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.52	1.91	"	3.82		92.1	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.54	1.93	"	3.86		91.6	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	14.3	7.60	"	15.2		94.3	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	14.9	7.68	"	15.4		97.3	50-150				
Perfluoro-n-butanoic acid (PFBA)	12.8	8.00	"	16.0		80.0	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.72	3.56	"	7.12		108	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	8.41	4.00	"	8.00		105	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.05	4.00	"	8.00		13.1	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	13.1	4.00	"	8.00		164	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	3.51	1.88	"	3.76		93.5	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	15.4	7.50	"	15.0		103	50-150				
HFPO-DA (Gen-X)	6.92	8.00	"	8.00		86.4	50-150				
11CL-PF3OUdS	6.44	7.56	"	7.56		85.1	50-150				
9CL-PF3ONS	7.03	7.48	"	7.48		94.0	50-150				
ADONA	7.26	7.56	"	7.56		96.0	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50414 - EPA 1633 Prep											
LCS (BC50414-BS2) LCS								Prepared: 03/06/2025 Analyzed: 03/07/2025			
Perfluorododecanesulfonic acid (PFDoS)	2.26	1.94	ng/L	3.88		58.3	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	3.82	1.92	"	3.84		99.4	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	11.2	5.00	"	16.0		69.8	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	77.4	25.0	"	80.0		96.7	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	82.7	25.0	"	80.0		103	50-150				
N-MeFOSE	44.5	20.0	"	40.0		111	50-150				
N-MeFOSA	5.74	2.00	"	4.00		143	50-150				
N-EtFOSE	43.1	20.0	"	40.0		108	50-150				
N-EtFOSA	3.81	2.00	"	4.00		95.2	50-150				
Surrogate: M3PFBS	*31.3*		*"*	*23.3*		*134*	*25-150*				
Surrogate: M5PFHxA	*31.7*		*"*	*25.0*		*127*	*25-150*				
Surrogate: M4PFHpA	*34.2*		*"*	*25.0*		*137*	*25-150*				
Surrogate: M3PFHxS	*33.8*		*"*	*23.7*		*143*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*33.8*		*"*	*25.0*		*135*	*25-150*				
Surrogate: M6PFDA	*17.3*		*"*	*12.5*		*139*	*25-150*				
Surrogate: M7PFUdA	*17.0*		*"*	*12.5*		*136*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*14.7*		*"*	*12.5*		*118*	*25-150*				
Surrogate: M2PFTeDA	*10.7*		*"*	*12.5*		*85.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.65*		*"*	*100*		*1.65*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*33.8*		*"*	*24.0*		*141*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*24.9*		*"*	*50.0*		*49.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*34.2*		*"*	*25.0*		*137*	*10-150*				
Surrogate: d3-N-MeFOSAA	*70.1*		*"*	*50.0*		*140*	*25-150*				
Surrogate: d5-N-EtFOSAA	*80.1*		*"*	*50.0*		*160*	*25-150*				
Surrogate: M2-6:2 FTS	*75.9*		*"*	*47.6*		*160*	*25-200*				
Surrogate: M2-8:2 FTS	*94.6*		*"*	*48.0*		*197*	*25-200*				
Surrogate: M9PFNA	*16.4*		*"*	*12.5*		*132*	*25-150*				
Surrogate: M2-4:2 FTS	*76.8*		*"*	*46.9*		*164*	*25-150*				
Surrogate: d-N-MeFOSA	*28.0*		*"*	*25.0*		*112*	*25-150*				
Surrogate: d-N-EtFOSA	*26.9*		*"*	*25.0*		*108*	*25-150*				
Surrogate: M3HFPO-DA	*127*		*"*	*100*		*127*	*25-150*				
Surrogate: d9-N-EtFOSE	*186*		*"*	*250*		*74.3*	*25-150*				
Surrogate: d7-N-MeFOSE	*205*		*"*	*250*		*82.0*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50523 - EPA 1633 Prep											
Blank (BC50523-BLK1) Blank									Prepared: 03/07/2025 Analyzed: 03/10/2025		
Perfluorobutanesulfonic acid (PFBS)	ND	0.177	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.200	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.200	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.183	"								
Perfluorooctanoic acid (PFOA)	ND	0.200	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.186	"								
Perfluorononanoic acid (PFNA)	ND	0.200	"								
Perfluorodecanoic acid (PFDA)	ND	0.200	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.200	"								
Perfluorododecanoic acid (PFDoA)	ND	0.200	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.200	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.200	"								
N-MeFOSAA	ND	0.200	"								
N-EtFOSAA	ND	0.200	"								
Perfluoropentanoic acid (PFPeA)	ND	0.399	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.200	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.200	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.193	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	0.758	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	0.766	"								
Perfluoro-n-butanoic acid (PFBA)	0.374	0.798	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.355	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.399	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.399	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.399	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.188	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	ND	0.749	"								
HFPO-DA (Gen-X)	ND	0.798	"								
11CL-PF3OUdS	ND	0.754	"								
9CL-PF3ONS	ND	0.747	"								
ADONA	ND	0.754	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.194	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.192	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	0.998	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	4.99	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	4.99	"								
N-MeFOSE	ND	2.00	"								
N-MeFOSA	ND	0.200	"								
N-EtFOSE	ND	2.00	"								
N-EtFOSA	ND	0.200	"								
Surrogate: M3PFBS	*2.89*		*"*	*2.33*		*124*	*25-150*				
Surrogate: M5PFHxA	*2.80*		*"*	*2.50*		*112*	*25-150*				
Surrogate: M4PFHpA	*3.18*		*"*	*2.50*		*128*	*25-150*				
Surrogate: M3PFHxS	*2.67*		*"*	*2.37*		*113*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.01*		*"*	*2.50*		*121*	*25-150*				
Surrogate: M6PFDA	*1.47*		*"*	*1.25*		*118*	*25-150*				
Surrogate: M7PFUdA	*1.37*		*"*	*1.25*		*110*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.09*		*"*	*1.25*		*87.2*	*25-150*				
Surrogate: M2PFTeDA	*0.980*		*"*	*1.25*		*78.6*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50523 - EPA 1633 Prep											
Blank (BC50523-BLK1) Blank								Prepared: 03/07/2025 Analyzed: 03/10/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.410*		*ug/kg wet*	*9.98*		*4.11*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.36*		*"*	*2.39*		*98.9*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*2.51*		*"*	*4.99*		*50.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.32*		*"*	*2.50*		*92.8*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.06*		*"*	*4.99*		*81.3*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.13*		*"*	*4.99*		*82.7*	*25-150*				
Surrogate: M2-6:2 FTS	*4.94*		*"*	*4.75*		*104*	*25-200*				
Surrogate: M2-8:2 FTS	*4.54*		*"*	*4.79*		*94.8*	*25-200*				
Surrogate: M9PFNA	*1.55*		*"*	*1.25*		*124*	*25-150*				
Surrogate: M2-4:2 FTS	*5.10*		*"*	*4.68*		*109*	*25-150*				
Surrogate: d-N-MeFOSA	*1.82*		*"*	*2.50*		*72.9*	*25-150*				
Surrogate: d-N-EtFOSA	*1.46*		*"*	*2.50*		*58.5*	*25-150*				
Surrogate: M3HFPO-DA	*12.4*		*"*	*9.98*		*125*	*25-150*				
Surrogate: d9-N-EtFOSE	*14.2*		*"*	*25.0*		*56.8*	*25-150*				
Surrogate: d7-N-MeFOSE	*14.0*		*"*	*25.0*		*56.2*	*25-150*				
LCS (BC50523-BS1) LCS								Prepared: 03/07/2025 Analyzed: 03/10/2025			
Perfluorobutanesulfonic acid (PFBS)	3.68	0.176	ug/kg wet	3.51		105	50-150				
Perfluorohexanoic acid (PFHxA)	3.93	0.198	"	3.97		98.9	50-150				
Perfluoroheptanoic acid (PFHpA)	4.00	0.198	"	3.97		101	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.77	0.182	"	3.63		104	50-150				
Perfluorooctanoic acid (PFOA)	3.63	0.198	"	3.97		91.6	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.65	0.185	"	3.69		98.9	50-150				
Perfluorononanoic acid (PFNA)	3.65	0.198	"	3.97		92.0	50-150				
Perfluorodecanoic acid (PFDA)	3.88	0.198	"	3.97		97.7	50-150				
Perfluoroundecanoic acid (PFUnA)	3.97	0.198	"	3.97		100	50-150				
Perfluorododecanoic acid (PFDoA)	3.63	0.198	"	3.97		91.6	50-150				
Perfluorotridecanoic acid (PFTrDA)	3.98	0.198	"	3.97		100	50-150				
Perfluorotetradecanoic acid (PFTA)	4.12	0.198	"	3.97		104	50-150				
N-MeFOSAA	4.17	0.198	"	3.97		105	50-150				
N-EtFOSAA	4.29	0.198	"	3.97		108	50-150				
Perfluoropentanoic acid (PFPeA)	8.04	0.397	"	7.94		101	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	3.79	0.198	"	3.97		95.6	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.51	0.198	"	3.79		92.7	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.01	0.191	"	3.83		78.5	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	15.6	0.754	"	15.1		104	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	17.1	0.762	"	15.2		112	50-150				
Perfluoro-n-butanoic acid (PFBA)	13.5	0.794	"	15.9		84.9	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.78	0.353	"	7.06		110	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	5.45	0.397	"	7.94		68.7	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.05	0.397	"	7.94		13.2	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	14.8	0.397	"	7.94		186	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	3.91	0.187	"	3.73		105	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	16.1	0.744	"	14.9		108	50-150				
HFPO-DA (Gen-X)	8.62	0.794	"	7.94		109	50-150				
11CL-PF3OUdS	5.19	0.750	"	7.50		69.2	50-150				
9CL-PF3ONS	6.68	0.742	"	7.42		90.0	50-150				
ADONA	6.94	0.750	"	7.50		92.6	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50523 - EPA 1633 Prep											
LCS (BC50523-BS1) LCS								Prepared: 03/07/2025 Analyzed: 03/10/2025			
Perfluorododecanesulfonic acid (PFDoS)	2.28	0.192	ug/kg wet	3.85		59.3	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	3.48	0.190	"	3.81		91.3	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	73.1	0.992	"	15.9		460	50-150	High Bias			
3-Perfluoropentyl propanoic acid (FPePA)	75.1	4.96	"	79.4		94.6	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	7.87	4.96	"	79.4		9.92	50-150	Low Bias			
N-MeFOSE	45.0	1.98	"	39.7		113	50-150				
N-MeFOSA	4.40	0.198	"	3.97		111	50-150				
N-EtFOSE	44.1	1.98	"	39.7		111	50-150				
N-EtFOSA	3.62	0.198	"	3.97		91.3	50-150				
Surrogate: M3PFBS	*2.82*		*"*	*2.31*		*122*	*25-150*				
Surrogate: M5PFHxA	*3.03*		*"*	*2.48*		*122*	*25-150*				
Surrogate: M4PFHpA	*3.27*		*"*	*2.48*		*132*	*25-150*				
Surrogate: M3PFHxS	*2.82*		*"*	*2.35*		*120*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.97*		*"*	*2.48*		*120*	*25-150*				
Surrogate: M6PFDA	*1.46*		*"*	*1.24*		*117*	*25-150*				
Surrogate: M7PFUdA	*1.40*		*"*	*1.24*		*113*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.14*		*"*	*1.24*		*91.8*	*25-150*				
Surrogate: M2PFTeDA	*1.02*		*"*	*1.24*		*82.1*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.390*		*"*	*9.92*		*3.93*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.86*		*"*	*2.38*		*120*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*2.08*		*"*	*4.96*		*41.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.61*		*"*	*2.48*		*105*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.98*		*"*	*4.96*		*100*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.70*		*"*	*4.96*		*94.7*	*25-150*				
Surrogate: M2-6:2 FTS	*5.17*		*"*	*4.72*		*110*	*25-200*				
Surrogate: M2-8:2 FTS	*5.19*		*"*	*4.76*		*109*	*25-200*				
Surrogate: M9PFNA	*1.50*		*"*	*1.24*		*121*	*25-150*				
Surrogate: M2-4:2 FTS	*5.04*		*"*	*4.65*		*108*	*25-150*				
Surrogate: d-N-MeFOSA	*2.03*		*"*	*2.48*		*81.9*	*25-150*				
Surrogate: d-N-EtFOSA	*1.87*		*"*	*2.48*		*75.4*	*25-150*				
Surrogate: M3HFPO-DA	*13.7*		*"*	*9.92*		*138*	*25-150*				
Surrogate: d9-N-EtFOSE	*15.5*		*"*	*24.8*		*62.3*	*25-150*				
Surrogate: d7-N-MeFOSE	*15.4*		*"*	*24.8*		*62.2*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50523 - EPA 1633 Prep											
LCS (BC50523-BS2) LCS								Prepared: 03/07/2025 Analyzed: 03/10/2025			
Perfluorobutanesulfonic acid (PFBS)	0.377	0.176	ug/kg wet	0.353		107	50-150				
Perfluorohexanoic acid (PFHxA)	0.396	0.199	"	0.398		99.4	50-150				
Perfluoroheptanoic acid (PFHpA)	0.424	0.199	"	0.398		106	50-150				
Perfluorohexanesulfonic acid (PFHxS)	0.372	0.182	"	0.365		102	50-150				
Perfluorooctanoic acid (PFOA)	0.398	0.199	"	0.398		99.9	50-150				
Perfluorooctanesulfonic acid (PFOS)	0.437	0.185	"	0.371		118	50-150				
Perfluorononanoic acid (PFNA)	0.380	0.199	"	0.398		95.3	50-150				
Perfluorodecanoic acid (PFDA)	0.376	0.199	"	0.398		94.3	50-150				
Perfluoroundecanoic acid (PFUnA)	0.432	0.199	"	0.398		109	50-150				
Perfluorododecanoic acid (PFDoA)	0.370	0.199	"	0.398		92.8	50-150				
Perfluorotridecanoic acid (PFTrDA)	0.477	0.199	"	0.398		120	50-150				
Perfluorotetradecanoic acid (PFTA)	0.425	0.199	"	0.398		107	50-150				
N-MeFOSAA	0.412	0.199	"	0.398		103	50-150				
N-EtFOSAA	0.472	0.199	"	0.398		118	50-150				
Perfluoropentanoic acid (PFPeA)	0.778	0.398	"	0.797		97.7	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	0.409	0.199	"	0.398		103	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.387	0.199	"	0.380		102	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	0.243	0.192	"	0.384		63.2	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	1.60	0.757	"	1.51		106	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	1.73	0.765	"	1.53		113	50-150				
Perfluoro-n-butanoic acid (PFBA)	1.21	0.797	"	1.59		76.0	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.788	0.355	"	0.709		111	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	0.801	0.398	"	0.797		101	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	0.0619	0.398	"	0.797		7.76	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.85	0.398	"	0.797		232	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	0.383	0.187	"	0.375		102	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	1.72	0.747	"	1.49		115	50-150				
HFPO-DA (Gen-X)	1.10	0.797	"	0.797		137	50-150				
11CL-PF3OUdS	0.501	0.753	"	0.753		66.5	50-150				
9CL-PF3ONS	0.643	0.745	"	0.745		86.3	50-150				
ADONA	0.739	0.753	"	0.753		98.2	50-150				
Perfluorododecanesulfonic acid (PFDoS)	0.213	0.193	"	0.386		55.2	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	0.317	0.191	"	0.382		83.0	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	6.95	0.996	"	1.59		436	50-150	High Bias			
3-Perfluoropentyl propanoic acid (FPePA)	7.01	4.98	"	7.97		87.9	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	0.732	4.98	"	7.97		9.18	50-150	Low Bias			
N-MeFOSE	4.18	1.99	"	3.98		105	50-150				
N-MeFOSA	0.534	0.199	"	0.398		134	50-150				
N-EtFOSE	4.37	1.99	"	3.98		110	50-150				
N-EtFOSA	0.400	0.199	"	0.398		100	50-150				
Surrogate: M3PFBS	*2.53*		*"*	*2.32*		*109*	*25-150*				
Surrogate: M5PFHxA	*2.56*		*"*	*2.49*		*103*	*25-150*				
Surrogate: M4PFHpA	*2.74*		*"*	*2.49*		*110*	*25-150*				
Surrogate: M3PFHxS	*2.48*		*"*	*2.36*		*105*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.55*		*"*	*2.49*		*102*	*25-150*				
Surrogate: M6PFDA	*1.12*		*"*	*1.25*		*89.8*	*25-150*				
Surrogate: M7PFUdA	*1.15*		*"*	*1.25*		*92.7*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.983*		*"*	*1.25*		*79.0*	*25-150*				
Surrogate: M2PFTeDA	*0.805*		*"*	*1.25*		*64.7*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50523 - EPA 1633 Prep											
LCS (BC50523-BS2) LCS								Prepared: 03/07/2025 Analyzed: 03/10/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.114*		*ug/kg wet*	*9.96*		*1.14*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.39*		*"*	*2.39*		*100*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*1.10*		*"*	*4.98*		*22.1*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.26*		*"*	*2.49*		*90.7*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.17*		*"*	*4.98*		*83.8*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.13*		*"*	*4.98*		*83.0*	*25-150*				
Surrogate: M2-6:2 FTS	*4.40*		*"*	*4.74*		*92.9*	*25-200*				
Surrogate: M2-8:2 FTS	*4.22*		*"*	*4.78*		*88.3*	*25-200*				
Surrogate: M9PFNA	*1.37*		*"*	*1.25*		*110*	*25-150*				
Surrogate: M2-4:2 FTS	*4.76*		*"*	*4.67*		*102*	*25-150*				
Surrogate: d-N-MeFOSA	*1.85*		*"*	*2.49*		*74.3*	*25-150*				
Surrogate: d-N-EtFOSA	*1.43*		*"*	*2.49*		*57.3*	*25-150*				
Surrogate: M3HFPO-DA	*10.6*		*"*	*9.96*		*107*	*25-150*				
Surrogate: d9-N-EtFOSE	*14.6*		*"*	*24.9*		*58.5*	*25-150*				
Surrogate: d7-N-MeFOSE	*14.9*		*"*	*24.9*		*59.8*	*25-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50175 - EPA SW846-3510C Low Level											
Blank (BC50175-BLK1) Blank							Prepared & Analyzed: 03/04/2025				
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Chlordane, total	ND	0.200	"								
Surrogate: Decachlorobiphenyl	*0.0883*		*"*	*0.200*		*44.1*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0756*		*"*	*0.200*		*37.8*	*30-150*				
LCS (BC50175-BS1) LCS							Prepared & Analyzed: 03/04/2025				
4,4'-DDD	0.0544	0.00400	ug/L	0.100		54.4	40-140			20	
4,4'-DDE	0.0496	0.00400	"	0.100		49.6	40-140			20	
4,4'-DDT	0.0597	0.00400	"	0.100		59.7	40-140			20	
Aldrin	0.0404	0.00400	"	0.100		40.4	40-140			20	
alpha-BHC	0.0524	0.00400	"	0.100		52.4	40-140			20	
alpha-Chlordane	0.0477	0.00400	"	0.100		47.7	40-140			20	
beta-BHC	0.0570	0.00400	"	0.100		57.0	40-140			20	
delta-BHC	0.0434	0.00400	"	0.100		43.4	40-140			20	
Dieldrin	0.0508	0.00200	"	0.100		50.8	40-140			20	
Endosulfan I	0.0521	0.00400	"	0.100		52.1	40-140			20	
Endosulfan II	0.0572	0.00400	"	0.100		57.2	40-140			20	
Endosulfan sulfate	0.0546	0.00400	"	0.100		54.6	40-140			20	
Endrin	0.0560	0.00400	"	0.100		56.0	40-140			20	
Endrin aldehyde	0.0623	0.0100	"	0.100		62.3	40-140			20	
Endrin ketone	0.0597	0.0100	"	0.100		59.7	40-140			20	
gamma-BHC (Lindane)	0.0556	0.00400	"	0.100		55.6	40-140			20	
gamma-Chlordane	0.0494	0.0100	"	0.100		49.4	40-140			20	
Heptachlor	0.0480	0.00400	"	0.100		48.0	40-140			20	
Heptachlor epoxide	0.0532	0.00400	"	0.100		53.2	40-140			20	
Methoxychlor	0.0634	0.00400	"	0.100		63.4	40-140			20	
Surrogate: Decachlorobiphenyl	*0.0812*		*"*	*0.200*		*40.6*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0696*		*"*	*0.200*		*34.8*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50175 - EPA SW846-3510C Low Level											
LCS Dup (BC50175-BSD1) LCS Dup							Prepared & Analyzed: 03/04/2025				
4,4'-DDD	0.0641	0.00400	ug/L	0.100		64.1	40-140		16.4	20	
4,4'-DDE	0.0570	0.00400	"	0.100		57.0	40-140		13.9	20	
4,4'-DDT	0.0704	0.00400	"	0.100		70.4	40-140		16.4	20	
Aldrin	0.0469	0.00400	"	0.100		46.9	40-140		14.9	20	
alpha-BHC	0.0623	0.00400	"	0.100		62.3	40-140		17.4	20	
alpha-Chlordane	0.0550	0.00400	"	0.100		55.0	40-140		14.3	20	
beta-BHC	0.0674	0.00400	"	0.100		67.4	40-140		16.7	20	
delta-BHC	0.0520	0.00400	"	0.100		52.0	40-140		17.9	20	
Dieldrin	0.0603	0.00200	"	0.100		60.3	40-140		17.1	20	
Endosulfan I	0.0600	0.00400	"	0.100		60.0	40-140		14.1	20	
Endosulfan II	0.0667	0.00400	"	0.100		66.7	40-140		15.3	20	
Endosulfan sulfate	0.0640	0.00400	"	0.100		64.0	40-140		15.9	20	
Endrin	0.0660	0.00400	"	0.100		66.0	40-140		16.4	20	
Endrin aldehyde	0.0722	0.0100	"	0.100		72.2	40-140		14.8	20	
Endrin ketone	0.0703	0.0100	"	0.100		70.3	40-140		16.3	20	
gamma-BHC (Lindane)	0.0661	0.00400	"	0.100		66.1	40-140		17.3	20	
gamma-Chlordane	0.0573	0.0100	"	0.100		57.3	40-140		14.8	20	
Heptachlor	0.0578	0.00400	"	0.100		57.8	40-140		18.5	20	
Heptachlor epoxide	0.0620	0.00400	"	0.100		62.0	40-140		15.3	20	
Methoxychlor	0.0739	0.00400	"	0.100		73.9	40-140		15.4	20	
Surrogate: Decachlorobiphenyl	*0.101*		*"*	*0.200*		*50.7*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0828*		*"*	*0.200*		*41.4*	*30-150*				
Batch BC50539 - EPA 3550C											
Blank (BC50539-BLK1) Blank							Prepared & Analyzed: 03/07/2025				
4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								
Surrogate: Decachlorobiphenyl	*0.0502*		*"*	*0.0664*		*75.6*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0436*		*"*	*0.0664*		*65.6*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50539 - EPA 3550C											
LCS (BC50539-BS1) LCS							Prepared & Analyzed: 03/07/2025				
4,4'-DDD	0.0314	0.00164	mg/kg wet	0.0332		94.4	40-140				
4,4'-DDE	0.0244	0.00164	"	0.0332		73.4	40-140				
4,4'-DDT	0.0244	0.00164	"	0.0332		73.5	40-140				
Aldrin	0.0233	0.00164	"	0.0332		70.2	40-140				
alpha-BHC	0.0263	0.00164	"	0.0332		79.2	40-140				
alpha-Chlordane	0.0245	0.00164	"	0.0332		73.9	40-140				
beta-BHC	0.0280	0.00164	"	0.0332		84.4	40-140				
delta-BHC	0.0251	0.00164	"	0.0332		75.5	40-140				
Dieldrin	0.0249	0.00164	"	0.0332		75.0	40-140				
Endosulfan I	0.0255	0.00164	"	0.0332		76.8	40-140				
Endosulfan II	0.0290	0.00164	"	0.0332		87.2	40-140				
Endosulfan sulfate	0.0286	0.00164	"	0.0332		86.0	40-140				
Endrin	0.0270	0.00164	"	0.0332		81.4	40-140				
Endrin aldehyde	0.0315	0.00164	"	0.0332		94.8	40-140				
Endrin ketone	0.0310	0.00164	"	0.0332		93.4	40-140				
gamma-BHC (Lindane)	0.0267	0.00164	"	0.0332		80.4	40-140				
gamma-Chlordane	0.0247	0.00164	"	0.0332		74.3	40-140				
Heptachlor	0.0260	0.00164	"	0.0332		78.3	40-140				
Heptachlor epoxide	0.0250	0.00164	"	0.0332		75.2	40-140				
Methoxychlor	0.0302	0.00164	"	0.0332		90.9	40-140				
Surrogate: Decachlorobiphenyl	*0.0469*		*"*	*0.0664*		*70.6*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0418*		*"*	*0.0664*		*62.8*	*30-150*				
Matrix Spike (BC50539-MS1) Matrix Spike *Source sample: 25B1634-06 (SB09_0-2)							Prepared & Analyzed: 03/07/2025				
4,4'-DDD	0.0356	0.00198	mg/kg dry	0.0400	ND	89.0	30-150				
4,4'-DDE	0.0292	0.00198	"	0.0400	ND	73.1	30-150				
4,4'-DDT	0.0337	0.00198	"	0.0400	ND	84.4	30-150				
Aldrin	0.0276	0.00198	"	0.0400	ND	69.1	30-150				
alpha-BHC	0.0306	0.00198	"	0.0400	ND	76.5	30-150				
alpha-Chlordane	0.0523	0.00198	"	0.0400	ND	131	30-150				
beta-BHC	0.0323	0.00198	"	0.0400	ND	80.7	30-150				
delta-BHC	0.0295	0.00198	"	0.0400	ND	73.7	30-150				
Dieldrin	0.0310	0.00198	"	0.0400	ND	77.6	30-150				
Endosulfan I	0.0301	0.00198	"	0.0400	ND	75.5	30-150				
Endosulfan II	0.0341	0.00198	"	0.0400	ND	85.4	30-150				
Endosulfan sulfate	0.0327	0.00198	"	0.0400	ND	81.8	30-150				
Endrin	0.0324	0.00198	"	0.0400	ND	81.0	30-150				
Endrin aldehyde	0.0369	0.00198	"	0.0400	ND	92.4	30-150				
Endrin ketone	0.0358	0.00198	"	0.0400	ND	89.5	30-150				
gamma-BHC (Lindane)	0.0316	0.00198	"	0.0400	ND	79.2	30-150				
gamma-Chlordane	0.0451	0.00198	"	0.0400	ND	113	30-150				
Heptachlor	0.0321	0.00198	"	0.0400	ND	80.2	30-150				
Heptachlor epoxide	0.0319	0.00198	"	0.0400	ND	79.8	30-150				
Methoxychlor	0.0358	0.00198	"	0.0400	ND	89.7	30-150				
Surrogate: Decachlorobiphenyl	*0.0560*		*"*	*0.0799*		*70.1*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0490*		*"*	*0.0799*		*61.4*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50539 - EPA 3550C											
Matrix Spike Dup (BC50539-M Matrix Spike Dup	*Source sample: 25B1634-06 (SB09_0-2)								Prepared: 03/07/2025 Analyzed: 03/10/2025		
4,4'-DDD	0.0279	0.00198	mg/kg dry	0.0400	ND	69.8	30-150		24.1	30	
4,4'-DDE	0.0256	0.00198	"	0.0400	ND	64.0	30-150		13.3	30	
4,4'-DDT	0.0317	0.00198	"	0.0400	ND	79.2	30-150		6.36	30	
Aldrin	0.0239	0.00198	"	0.0400	ND	59.8	30-150		14.5	30	
alpha-BHC	0.0259	0.00198	"	0.0400	ND	64.9	30-150		16.4	30	
alpha-Chlordane	0.0520	0.00198	"	0.0400	ND	130	30-150		0.433	30	
beta-BHC	0.0275	0.00198	"	0.0400	ND	68.8	30-150		16.0	30	
delta-BHC	0.0242	0.00198	"	0.0400	ND	60.7	30-150		19.5	30	
Dieldrin	0.0272	0.00198	"	0.0400	ND	68.2	30-150		13.0	30	
Endosulfan I	0.0266	0.00198	"	0.0400	ND	66.7	30-150		12.4	30	
Endosulfan II	0.0289	0.00198	"	0.0400	ND	72.4	30-150		16.5	30	
Endosulfan sulfate	0.0277	0.00198	"	0.0400	ND	69.3	30-150		16.6	30	
Endrin	0.0278	0.00198	"	0.0400	ND	69.7	30-150		15.1	30	
Endrin aldehyde	0.0309	0.00198	"	0.0400	ND	77.2	30-150		17.8	30	
Endrin ketone	0.0310	0.00198	"	0.0400	ND	77.5	30-150		14.4	30	
gamma-BHC (Lindane)	0.0269	0.00198	"	0.0400	ND	67.2	30-150		16.3	30	
gamma-Chlordane	0.0437	0.00198	"	0.0400	ND	109	30-150		3.13	30	
Heptachlor	0.0271	0.00198	"	0.0400	ND	67.7	30-150		16.9	30	
Heptachlor epoxide	0.0283	0.00198	"	0.0400	ND	70.7	30-150		12.0	30	
Methoxychlor	0.0337	0.00198	"	0.0400	ND	84.4	30-150		6.08	30	
Surrogate: Decachlorobiphenyl	*0.0524*		*"*	*0.0799*		*65.6*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0410*		*"*	*0.0799*		*51.3*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50173 - EPA SW846-3510C Low Level											
Blank (BC50173-BLK1) Blank							Prepared: 03/04/2025 Analyzed: 03/05/2025				
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.0850*		*"*	*0.200*		*42.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.117*		*"*	*0.200*		*58.5*	*30-120*				
LCS (BC50173-BS2) LCS							Prepared: 03/04/2025 Analyzed: 03/05/2025				
Aroclor 1016	0.418	0.0500	ug/L	1.00		41.8	40-120				
Aroclor 1260	0.443	0.0500	"	1.00		44.3	40-120				
Surrogate: Tetrachloro-m-xylene	*0.0560*		*"*	*0.200*		*28.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0870*		*"*	*0.200*		*43.5*	*30-120*				
LCS Dup (BC50173-BSD2) LCS Dup							Prepared: 03/04/2025 Analyzed: 03/05/2025				
Aroclor 1016	0.539	0.0500	ug/L	1.00		53.9	40-120		25.2	30	
Aroclor 1260	0.555	0.0500	"	1.00		55.5	40-120		22.4	30	
Surrogate: Tetrachloro-m-xylene	*0.0740*		*"*	*0.200*		*37.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.107*		*"*	*0.200*		*53.5*	*30-120*				
Batch BC50538 - EPA 3550C											
Blank (BC50538-BLK1) Blank							Prepared & Analyzed: 03/07/2025				
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	*0.0492*		*"*	*0.0664*		*74.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0422*		*"*	*0.0664*		*63.5*	*30-120*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50538 - EPA 3550C											
LCS (BC50538-BS2) LCS							Prepared & Analyzed: 03/07/2025				
Aroclor 1016	0.281	0.0166	mg/kg wet	0.332		84.6	40-130				
Aroclor 1260	0.272	0.0166	"	0.332		81.8	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0452*		*"*	*0.0664*		*68.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0425*		*"*	*0.0664*		*64.0*	*30-120*				
Matrix Spike (BC50538-MS2) Matrix Spike *Source sample: 25B1634-06 (SB09_0-2)							Prepared & Analyzed: 03/07/2025				
Aroclor 1016	0.0421	0.0200	mg/kg dry	0.400	ND	10.5	40-140	Low Bias			
Aroclor 1260	0.153	0.0200	"	0.400	ND	38.2	40-140	Low Bias			
Surrogate: Tetrachloro-m-xylene	*0.0456*		*"*	*0.0799*		*57.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0360*		*"*	*0.0799*		*45.0*	*30-120*				
Matrix Spike Dup (BC50538-M Matrix Spike Dup *Source sample: 25B1634-06 (SB09_0-2)							Prepared & Analyzed: 03/07/2025				
Aroclor 1016	0.141	0.0200	mg/kg dry	0.400	ND	35.3	40-140	Low Bias	108	50	Non-dir.
Aroclor 1260	0.220	0.0200	"	0.400	ND	55.0	40-140		36.1	50	
Surrogate: Tetrachloro-m-xylene	*0.0487*		*"*	*0.0799*		*61.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0499*		*"*	*0.0799*		*62.5*	*30-120*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50076 - EPA 8151A											
Blank (BC50076-BLK1) Blank							Prepared & Analyzed: 03/04/2025				
2,4,5-T	ND	5.00	ug/L								
2,4,5-TP (Silvex)	ND	5.00	"								
2,4-D	ND	5.00	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*134*		*"*	*125*		*108*	*30-150*				
LCS (BC50076-BS1) LCS							Prepared & Analyzed: 03/04/2025				
2,4,5-T	18.2	5.00	ug/L	20.0		91.2	10-140				
2,4,5-TP (Silvex)	20.2	5.00	"	20.0		101	10-139				
2,4-D	18.5	5.00	"	20.0		92.5	10-140				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*146*		*"*	*125*		*117*	*30-150*				
LCS Dup (BC50076-BSD1) LCS Dup							Prepared & Analyzed: 03/04/2025				
2,4,5-T	17.0	5.00	ug/L	20.0		85.0	10-140		7.09	30	
2,4,5-TP (Silvex)	19.0	5.00	"	20.0		95.0	10-139		6.37	30	
2,4-D	17.8	5.00	"	20.0		88.8	10-140		4.14	30	
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*137*		*"*	*125*		*110*	*30-150*				
Batch BC50499 - EPA 3550C/8151A											
Blank (BC50499-BLK1) Blank							Prepared: 03/07/2025 Analyzed: 03/09/2025				
2,4,5-T	ND	0.0199	mg/kg wet								
2,4,5-TP (Silvex)	ND	0.0199	"								
2,4-D	ND	0.0199	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.363*		*"*	*0.415*		*87.4*	*21-150*				
LCS (BC50499-BS1) LCS							Prepared: 03/07/2025 Analyzed: 03/09/2025				
2,4,5-T	0.0673	0.0199	mg/kg wet	0.0664		101	10-120				
2,4,5-TP (Silvex)	0.0648	0.0199	"	0.0664		97.5	10-120				
2,4-D	0.0598	0.0199	"	0.0664		90.0	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.398*		*"*	*0.415*		*95.8*	*21-150*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50217 - EPA 3050B											
Blank (BC50217-BLK1) Blank								Prepared: 03/04/2025 Analyzed: 03/05/2025			
Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	ND	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	ND	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	1.67	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								
Reference (BC50217-SRM1) Reference								Prepared: 03/04/2025 Analyzed: 03/05/2025			
Aluminum	9100	4.17	mg/kg wet	7680		118	47.4-130.2				
Antimony	59.8	2.08	"	201		29.8	0-100				
Arsenic	183	1.25	"	181		101	66.3-98	High Bias			
Barium	230	2.08	"	211		109	73.9-107.1	High Bias			
Beryllium	288	0.042	"	270		107	73-104.4	High Bias			
Cadmium	225	0.250	"	221		102	70.6-101.8	High Bias			
Calcium	4630	4.17	"	4280		108	77.3-111				
Chromium	163	0.417	"	149		109	71.8-105.4	High Bias			
Cobalt	155	0.333	"	142		109	73.2-104.2	High Bias			
Copper	300	1.67	"	264		114	73.5-104.2	High Bias			
Iron	8920	20.8	"	7360		121	55.4-130.3				
Lead	117	0.417	"	106		110	76.1-109.4	High Bias			
Magnesium	2410	4.17	"	2170		111	68.7-112				
Manganese	290	0.417	"	270		107	73-107.8				
Nickel	186	0.830	"	177		105	71.8-103.4	High Bias			
Potassium	2350	4.17	"	2340		101	62.8-113.7				
Selenium	154	2.08	"	139		111	70-107.9	High Bias			
Silver	67.2	0.420	"	59.9		112	72.8-110.7	High Bias			
Sodium	320	41.7	"	306		105	66-113.4				
Thallium	223	1.67	"	205		109	71.7-106.8	High Bias			
Vanadium	166	0.830	"	155		107	69-107.7				
Zinc	417	2.08	"	389		107	70.4-106.9	High Bias			

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50283 - EPA 3015A											
Blank (BC50283-BLK1) Blank								Prepared: 03/05/2025 Analyzed: 03/06/2025			
Aluminum	ND	0.0556	mg/L								
Barium	ND	0.0278	"								
Calcium	ND	0.0556	"								
Chromium	ND	0.00556	"								
Cobalt	ND	0.00444	"								
Copper	ND	0.0222	"								
Iron	ND	0.278	"								
Lead	ND	0.00556	"								
Magnesium	ND	0.0556	"								
Manganese	ND	0.00556	"								
Nickel	ND	0.0111	"								
Potassium	ND	0.0556	"								
Silver	ND	0.00556	"								
Sodium	ND	0.556	"								
Vanadium	ND	0.0111	"								
Zinc	ND	0.0278	"								
LCS (BC50283-BS1) LCS								Prepared: 03/05/2025 Analyzed: 03/06/2025			
Aluminum	1.88		ug/mL	2.00		93.8	80-120				
Barium	2.07		"	2.00		104	80-120				
Calcium	1.40		"	1.00		140	80-120	High Bias			
Chromium	0.206		"	0.200		103	80-120				
Cobalt	0.523		"	0.500		105	80-120				
Copper	0.256		"	0.250		102	80-120				
Iron	0.949		"	1.00		94.9	80-120				
Lead	0.519		"	0.500		104	80-120				
Magnesium	1.02		"	1.00		102	80-120				
Manganese	0.512		"	0.500		102	80-120				
Nickel	0.523		"	0.500		105	80-120				
Potassium	1.46		"	1.00		146	80-120	High Bias			
Silver	0.0487		"	0.0500		97.4	80-120				
Sodium	0.960		"	1.00		96.0	80-120				
Vanadium	0.495		"	0.500		99.0	80-120				
Zinc	0.525		"	0.500		105	80-120				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50283 - EPA 3015A											
Duplicate (BC50283-DUP1) Duplicate	*Source sample: 25B1634-17 (SOFB01_022825)							Prepared: 03/05/2025 Analyzed: 03/06/2025			
Aluminum	ND	0.0556	mg/L		ND					20	
Barium	ND	0.0278	"		ND					20	
Calcium	2.30	0.0556	"		3.35				37.3	20	Non-dir.
Chromium	ND	0.00556	"		ND					20	
Cobalt	ND	0.00444	"		ND					20	
Copper	ND	0.0222	"		ND					20	
Iron	ND	0.278	"		ND					20	
Lead	ND	0.00556	"		ND					20	
Magnesium	0.251	0.0556	"		0.250				0.487	20	
Manganese	ND	0.00556	"		ND					20	
Nickel	ND	0.0111	"		ND					20	
Potassium	0.417	0.0556	"		0.565				30.1	20	Non-dir.
Silver	ND	0.00556	"		ND					20	
Sodium	0.840	0.556	"		1.62				63.3	20	Non-dir.
Vanadium	ND	0.0111	"		ND					20	
Zinc	0.0406	0.0278	"		0.0831				68.8	20	Non-dir.
Matrix Spike (BC50283-MS1) Matrix Spike	*Source sample: 25B1634-17 (SOFB01_022825)							Prepared: 03/05/2025 Analyzed: 03/06/2025			
Aluminum	2.02	0.0556	mg/L	2.22	ND	91.0	75-125				
Barium	2.30	0.0278	"	2.22	ND	104	75-125				
Calcium	3.16	0.0556	"	1.11	3.35	NR	75-125	Low Bias			
Chromium	0.228	0.00556	"	0.222	ND	102	75-125				
Cobalt	0.575	0.00444	"	0.556	ND	104	75-125				
Copper	0.284	0.0222	"	0.278	ND	102	75-125				
Iron	1.04	0.278	"	1.11	ND	94.0	75-125				
Lead	0.565	0.00556	"	0.556	ND	102	75-125				
Magnesium	1.36	0.0556	"	1.11	0.250	99.7	75-125				
Manganese	0.574	0.00556	"	0.556	ND	103	75-125				
Nickel	0.577	0.0111	"	0.556	ND	104	75-125				
Potassium	1.31	0.0556	"	1.11	0.565	66.7	75-125	Low Bias			
Silver	0.0523	0.00556	"	0.0556	ND	94.2	75-125				
Sodium	1.88	0.556	"	1.11	1.62	23.3	75-125	Low Bias			
Vanadium	0.546	0.0111	"	0.556	ND	98.3	75-125				
Zinc	0.596	0.0278	"	0.556	0.0831	92.3	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50283 - EPA 3015A											
Post Spike (BC50283-PS1) Post Spike	*Source sample: 25B1634-17 (SOFB01_022825)							Prepared: 03/05/2025 Analyzed: 03/06/2025			
Aluminum	1.87		ug/mL	2.00	0.0373	91.7	75-125				
Barium	2.11		"	2.00	0.0160	105	75-125				
Calcium	4.05		"	1.00	3.02	103	75-125				
Chromium	0.209		"	0.200	0.00290	103	75-125				
Cobalt	0.530		"	0.500	0.000200	106	75-125				
Copper	0.262		"	0.250	0.00220	104	75-125				
Iron	0.968		"	1.00	0.0255	94.2	75-125				
Lead	0.507		"	0.500	-0.000800	101	75-125				
Magnesium	1.24		"	1.00	0.225	102	75-125				
Manganese	0.527		"	0.500	0.00170	105	75-125				
Nickel	0.532		"	0.500	0.000900	106	75-125				
Potassium	1.35		"	1.00	0.508	83.9	75-125				
Silver	0.0510		"	0.0500	-0.000600	102	75-125				
Sodium	1.68		"	1.00	1.46	22.1	75-125	Low Bias			
Vanadium	0.503		"	0.500	0.000200	101	75-125				
Zinc	0.588		"	0.500	0.0748	103	75-125				
Batch BC50328 - EPA 3050B											
Blank (BC50328-BLK1) Blank								Prepared: 03/05/2025 Analyzed: 03/06/2025			
Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	ND	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	ND	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	1.67	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50328 - EPA 3050B											
Reference (BC50328-SRM1) Reference								Prepared: 03/05/2025 Analyzed: 03/06/2025			
Aluminum	7630	4.17	mg/kg wet	7680		99.3	47.4-130.2				
Antimony	51.6	2.08	"	201		25.7	0-100				
Arsenic	155	1.25	"	181		85.6	66.3-98				
Barium	217	2.08	"	211		103	73.9-107.1				
Beryllium	256	0.042	"	270		94.7	73-104.4				
Cadmium	200	0.250	"	221		90.3	70.6-101.8				
Calcium	4350	4.17	"	4280		102	77.3-111				
Chromium	140	0.417	"	149		94.2	71.8-105.4				
Cobalt	139	0.333	"	142		97.9	73.2-104.2				
Copper	260	1.67	"	264		98.3	73.5-104.2				
Iron	7090	20.8	"	7360		96.4	55.4-130.3				
Lead	103	0.417	"	106		97.1	76.1-109.4				
Magnesium	2120	4.17	"	2170		97.8	68.7-112				
Manganese	294	0.417	"	270		109	73-107.8	High Bias			
Nickel	169	0.830	"	177		95.3	71.8-103.4				
Potassium	2250	4.17	"	2340		96.0	62.8-113.7				
Selenium	125	2.08	"	139		90.0	70-107.9				
Silver	57.7	0.420	"	59.9		96.4	72.8-110.7				
Sodium	287	41.7	"	306		93.7	66-113.4				
Thallium	192	1.67	"	205		93.4	71.7-106.8				
Vanadium	144	0.830	"	155		92.8	69-107.7				
Zinc	374	2.08	"	389		96.0	70.4-106.9				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50264 - EPA 3015A											
Blank (BC50264-BLK1) Blank							Prepared & Analyzed: 03/05/2025				
Antimony	ND	1.11	ug/L								
Arsenic	ND	1.11	"								
Beryllium	ND	0.333	"								
Cadmium	ND	0.556	"								
Selenium	ND	1.11	"								
Thallium	ND	1.11	"								
LCS (BC50264-BS1) LCS							Prepared & Analyzed: 03/05/2025				
Antimony	40.3		ug/L	50.0		80.7	80-120				
Arsenic	47.3		"	50.0		94.6	80-120				
Beryllium	45.6		"	50.0		91.3	80-120				
Cadmium	41.1		"	50.0		82.3	80-120				
Selenium	48.1		"	50.0		96.2	80-120				
Thallium	48.7		"	50.0		97.3	80-120				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50260 - EPA SW846-7470A												
Blank (BC50260-BLK1)	Blank								Prepared & Analyzed: 03/05/2025			
Mercury		ND	0.0002	mg/L								
Blank (BC50260-BLK2)	Blank								Prepared & Analyzed: 03/05/2025			
Mercury		ND	0.0002	mg/L								
LCS (BC50260-BS1)	LCS								Prepared & Analyzed: 03/05/2025			
Mercury		0.0019930	0.0002	mg/L	0.00200		99.7	80-120				
LCS (BC50260-BS2)	LCS								Prepared & Analyzed: 03/05/2025			
Mercury		0.0018386	0.0002	mg/L	0.00200		91.9	80-120				
Batch BC50336 - EPA 7473 soil												
Blank (BC50336-BLK1)	Blank								Prepared: 03/05/2025 Analyzed: 03/06/2025			
Mercury		ND	0.0300	mg/kg wet								
Duplicate (BC50336-DUP1)	Duplicate	*Source sample: 25B1634-05 (SB10_5-7)							Prepared: 03/05/2025 Analyzed: 03/06/2025			
Mercury		0.660	0.0580	mg/kg dry		2.50				116	35	Non-dir.
Matrix Spike (BC50336-MS1)	Matrix Spike	*Source sample: 25B1634-05 (SB10_5-7)							Prepared: 03/05/2025 Analyzed: 03/06/2025			
Mercury		1.09		mg/kg	1.00	1.29	NR	75-125	Low Bias			
Reference (BC50336-SRM1)	Reference								Prepared: 03/05/2025 Analyzed: 03/06/2025			
Mercury		16.256		mg/kg	24.0		67.7	55.8-109.6				
Batch BC50337 - EPA 7473 soil												
Blank (BC50337-BLK1)	Blank								Prepared: 03/05/2025 Analyzed: 03/06/2025			
Mercury		ND	0.0300	mg/kg wet								

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50337 - EPA 7473 soil											
Reference (BC50337-SRM1) Reference									Prepared: 03/05/2025 Analyzed: 03/06/2025		
Mercury	21.961		mg/kg	24.0		91.5	55.8-109.6				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB52025 - Analysis Preparation											
Blank (BB52025-BLK1) Blank								Prepared & Analyzed: 02/28/2025			
Chromium, Hexavalent	ND	0.0100	mg/L								
LCS (BB52025-BS1) LCS								Prepared & Analyzed: 02/28/2025			
Chromium, Hexavalent	0.442	0.0100	mg/L	0.500		88.4	85-115				
Batch BC50286 - EPA SW846-3060											
Blank (BC50286-BLK1) Blank								Prepared & Analyzed: 03/05/2025			
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Reference (BC50286-SRM1) Reference								Prepared & Analyzed: 03/05/2025			
Chromium, Hexavalent	237		mg/L	227		104	42.3-157.7				
Batch BC50347 - Analysis Preparation											
Blank (BC50347-BLK1) Blank								Prepared & Analyzed: 03/05/2025			
Cyanide, total	ND	0.0100	mg/L								
LCS (BC50347-BS1) LCS								Prepared & Analyzed: 03/05/2025			
Cyanide, total	0.0876	0.0100	mg/L	0.100		87.6	80-120				
Batch BC50348 - EPA SW846-3060											
Blank (BC50348-BLK1) Blank								Prepared & Analyzed: 03/05/2025			
Chromium, Hexavalent	ND	0.500	mg/kg wet								

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50348 - EPA SW846-3060											
Reference (BC50348-SRM1) Reference								Prepared & Analyzed: 03/05/2025			
Chromium, Hexavalent	178		mg/L	227		78.5	42.3-157.7				
Batch BC50394 - Analysis Preparation Soil											
Blank (BC50394-BLK1) Blank								Prepared & Analyzed: 03/06/2025			
Cyanide, total	ND	0.500	mg/kg wet								
Reference (BC50394-SRM1) Reference								Prepared & Analyzed: 03/06/2025			
Cyanide, total	161		ug/mL	111		145	43.5-170				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50146 - % Solids Prep											
Duplicate (BC50146-DUP1) Duplicate	*Source sample: 25B1634-12 (SB06_0-2)							Prepared & Analyzed: 03/04/2025			
% Solids	89.1	0.100	%		89.6				0.629	20	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
25B1634-04	SB10_0-2	40mL Vial with Stir Bar-Cool 4° C
25B1634-05	SB10_5-7	40mL Vial with Stir Bar-Cool 4° C
25B1634-06	SB09_0-2	40mL Vial with Stir Bar-Cool 4° C
25B1634-07	SB09_5-7	40mL Vial with Stir Bar-Cool 4° C
25B1634-08	SB08_0-2	40mL Vial with Stir Bar-Cool 4° C
25B1634-09	SB08_5-7	40mL Vial with Stir Bar-Cool 4° C
25B1634-10	SB07_0-2	40mL Vial with Stir Bar-Cool 4° C
25B1634-11	SB07_5-7	40mL Vial with Stir Bar-Cool 4° C
25B1634-12	SB06_0-2	40mL Vial with Stir Bar-Cool 4° C
25B1634-13	SB06_5-7	40mL Vial with Stir Bar-Cool 4° C
25B1634-14	SODUP02_022825	40mL Vial with Stir Bar-Cool 4° C
25B1634-15	SOTB01_022825	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
25B1634-17	SOFB01_022825	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

PF-CCV-L	The CCV recovery for this PFAS compound was below control limits.
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
M-CCV1	The recovery for this element in the Continuing Calibration Verification (CCV) was outside the 90-110% recovery criteria.
M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)
P	This qualifier indicates the compound detected exhibited greater than 40% between the quantitation and confirmatory columns.
S-GC	Two surrogates are used for this analysis. One surrogate recovered within control limits therefore the analysis is acceptable.
PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
S-08	The recovery of this surrogate was outside of QC limits.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference

Wet — The data has been reported on an as-received (wet weight) basis

Low Bias — Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This legal document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | 2161 Whitesville Rd Toms River, NJ 08755 | clientservices@yorklab.com | 800-306-YORK

YORK Project Number: 25B1634

Page 1 of 2

Report To:
Company: Langan
Address: 368 Ninth Ave 8th Fl NY, NY 10001
Phone: 212 479 5400
Contact: Lexi Haley
E-mail: LHaley@langan.com

Invoice To:
Company:
Address:
Phone:
Contact:
E-mail:

YOUR Project Name / Number: Ring Road at Ferry Point Park 170773001

PO Number:

Samples Collected From: NY [X] NJ [ ] CT [ ] PA [ ] Other: (please specify)

Turn-Around Time: RUSH - Next Day; RUSH - Two Day; RUSH - Three Day; RUSH - Four Day; RUSH - Five Day; Standard (6-9 Day); PFAS Standard 7-10 Day [X]

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Sarah Walters / Savannah Walters

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Preservative (please list number of containers)

Analyses Requested

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other:	Part 375 VOCs	Part 375 SVOCs, 8 Pest	Herb, TAL metals (incl hex)	& tri UNDIMIUM & total cyanide	(dissolved & total) 1,4 dioxane	PFAS							Grab or Comp. G/C
TMW07_022825	2/28/25	1440	GW	10	3		2		1					X	X	X	X	X	X							
TMW10_022825	↓	1021	↓	10	3		2		1					X	X	X	X	X	X							
~~FB~~ NTB01_022825	↓	—	AQ		2									X												

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered [X]
Lab Filtered [ ]

Comments: please cc: datamanagement@langan.com areach@langan.com and swalters@langan.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N

Custody Seals: Y / N | Containers Intact: Y / N | COC/Labels Agree: Y / N | Preservation Confirmed: Y / N
COC Complete: Y / N | COC Received: Y / N | Appropriate Sample Volumes: Y / N | Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N | Samples Submitted within Holding Times: Y / N | Corrective Action Form Required: Y / N

Relinquished by / Company	Date/Time	Received by / Company	Date/Time	Relinquished by / Company	Date/Time
1. Sarah Walters Langan	2/28/25 1634	1. A. Li	2/28/25 16:35	2. A. Li	2/28/25 20:30
2. Samples Received by / Company	Date/Time	3. Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time: 2/28/25 20:30 — Temperature: 23 Degrees C

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This legal document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | 2161 Whitesville Rd Toms River, NJ 08755 | clientservices@yorklab.com | 800-306-YORK

YORK Project Number: 25B1634

Report To:
Company: Langan
Address: 368 Ninth Ave 8th Fl NY, NY 10001
Phone.: 212-479 5400
Contact: Levi Haley
E-mail: LHaley@langan.com

Invoice To:
Company:
Address:
Phone.:
Contact:
E-mail:

YOUR Project Name / Number: Ring Road at Ferry Point Park 17077.3001

PO Number:

Samples Collected From: NY ✓ | NJ | CT | PA | Other: (please specify)

Turn-Around Time: RUSH - Next Day | RUSH - Two Day | RUSH - Three Day | RUSH - Four Day | RUSH - Five Day | Standard (6-9 Day) ✓ | PFAS Standard 7-10 Day

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Savannah Walters

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Preservative (please list number of containers)

Analyses Requested

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other: DI Water	Part 375 VOCs	Part 375 SVOCs, PCBs, Pest	Hexavalent Chromium (in text)	Total Metals (inc text)	1,4-dioxane	PFAS	Grab or Comp. G/C
SB10-0-2	2/28/25	0845	S	3		1							2	✓	✓	✓	✓	✓		
SB10-5-7		0856		4										✓	✓	✓	✓	✓	✓	
SB09-0-2		1205		3										✓	✓	✓	✓	✓		
SB09-5-7		1214												✓	✓	✓	✓	✓		
SB08-0-2		1249												✓	✓	✓	✓	✓		
SB08-5-7		1256												✓	✓	✓	✓	✓		
SB07-0-2		1313												✓	✓	✓	✓	✓	✓	
SB07-5-7		1320												✓	✓	✓	✓	✓		
SB06-0-2		1456												✓	✓	✓	✓	✓		
SB06-5-7		1505												✓	✓	✓	✓	✓		
SODWP02-022825		—		4										✓	✓	✓	✓	✓		
SOTB01-022825			AQ		2									✓						
SOFBLPFAS-022825		0938		2															✓	
SOFB01-022825		0945		8	3		2		1					✓	✓	✓	✓	✓		

EDD Type (circle): EQuIS (standard) | NYSDEC EQuIS | NJDEP SRP Haz Site | Standard Excel | CMDP | Other:

Report Type (circle): QA Report | Summary (Results Only) | NY ASP B Package | NJ Reduced | NJ DKQP | NJ Full | CT RCP

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered | Lab Filtered

Comments: please cc: datamanagement@langan.com, areach@langan.com & swalters@langan.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N | Containers Intact: Y / N | COC/Labels Agree: Y / N | Preservation Confirmed: Y / N
COC Complete: Y / N | COC Received: Y / N | Appropriate Sample Volumes: Y / N | Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N | Samples Submitted within Holding Times: Y / N | Corrective Action Form Required: Y / N

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
1. Savannah Walters Langan	2/28/25 1634	1. [illegible]	2/28/25 16:35	1. [illegible]	2/28/25 20:30
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by [illegible]	Date/Time 2/28/25 20:30

Temperature 23 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Report Date: 03/12/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0068

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/12/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0068

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 03, 2025 and listed below. The project was identified as your project: **170773001**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25C0068-01	SOFB02_030325	Water	03/03/2025	03/03/2025
25C0068-02	SOFB02_PFAS_030325	Water	03/03/2025	03/03/2025
25C0068-03	SOTB02_030325	Water	03/03/2025	03/03/2025
25C0068-04	SB05_0-2	Soil	03/03/2025	03/03/2025
25C0068-05	SB05_5-7	Soil	03/03/2025	03/03/2025
25C0068-06	SB15_0-2	Soil	03/03/2025	03/03/2025
25C0068-07	SB15_5-7	Soil	03/03/2025	03/03/2025
25C0068-08	SB14_0-2	Soil	03/03/2025	03/03/2025
25C0068-09	SB14_5-7	Soil	03/03/2025	03/03/2025
25C0068-10	SB13_0-2	Soil	03/03/2025	03/03/2025
25C0068-11	SB13_5-7	Soil	03/03/2025	03/03/2025
25C0068-12	SB12_0-2	Soil	03/03/2025	03/03/2025
25C0068-13	SB12_5-7	Soil	03/03/2025	03/03/2025
25C0068-14	SB11_0-2	Soil	03/03/2025	03/03/2025
25C0068-15	SB11_5-7	Soil	03/03/2025	03/03/2025
25C0068-16	SB20_0-2	Soil	03/03/2025	03/03/2025
25C0068-17	SB20_5-7	Soil	03/03/2025	03/03/2025
25C0068-18	SODUP03_030325	Soil	03/03/2025	03/03/2025

General Notes for York Project (SDG) No.: 25C0068

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By **Date:** 03/12/2025

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: SOFB02_030325 **York Sample ID:** 25C0068-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 7:45 am	03/03/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SOFB02_030325 **York Sample ID:** 25C0068-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 7:45 am	03/03/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND		ug/L	1.34	2.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: **SOFB02_030325** **York Sample ID:** **25C0068-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 7:45 am	03/03/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SOFB02_030325** **York Sample ID:** **25C0068-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 7:45 am	03/03/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:19	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*97.4 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*96.3 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*96.7 %*	*79-122*

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SOFB02_030325** **York Sample ID:** **25C0068-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 7:45 am	03/03/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-48-7	2-Methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
99-09-2	3-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		ug/L	5.00	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND	CAL-E	ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		ug/L	5.00	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	QL-02, CCVE	ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SOFB02_030325** **York Sample ID:** **25C0068-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 7:45 am	03/03/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.00	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	NELAC-NY10854,PADEP-68-04440		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.00	10.0	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		ug/L	0.750	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*34.9 %*	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*22.3 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*57.3 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*57.2 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*57.1 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*70.2 %*	*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: SOFB02_030325 **York Sample ID:** 25C0068-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 7:45 am	03/03/2025

83-32-9	Acenaphthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-12-7	Anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		ug/L	0.500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	Chrysene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	Fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	Fluorene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
118-74-1	Hexachlorobenzene	ND		ug/L	0.0200	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND		ug/L	0.500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND	CCVE, ICVE	ug/L	0.250	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-86-5	Pentachlorophenol	ND		ug/L	0.250	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
85-01-8	Phenanthrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 16:51	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SOFB02_030325** **York Sample ID:** **25C0068-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 7:45 am	03/03/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270E SIM	03/04/2025 16:47	03/05/2025 21:16	SS
							Certifications: NJDEP-CT005,NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*104 %*	*36.6-118*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SOFB02_030325 **York Sample ID:** 25C0068-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 7:45 am	03/03/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:26	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*38.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*39.7 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 10:43	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 10:43	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 10:43	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 10:43	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 10:43	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 10:43	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 10:43	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 10:43	NF
							Certifications:			

	Surrogate Recoveries	Result	Flag	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*28.0 %*	S-GC, S-08	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*35.0 %*		*30-120*

Sample Information

Client Sample ID: **SOFB02_030325** **York Sample ID:** **25C0068-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 7:45 am	03/03/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	03/04/2025 08:00	03/04/2025 15:52	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	03/04/2025 08:00	03/04/2025 15:52	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	03/04/2025 08:00	03/04/2025 15:52	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*86.6 %*	*30-150*

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.0403**		mg/L	0.0278	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**3.11**	M-BS	mg/L	0.0556	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**0.274**		mg/L	0.0556	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**0.196**		mg/L	0.0556	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**1.10**		mg/L	0.556	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SOFB02_030325** **York Sample ID:** **25C0068-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 7:45 am	03/03/2025

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**0.0786**		mg/L	0.0278	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	03/06/2025 08:54	03/06/2025 15:09	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	03/06/2025 08:54	03/06/2025 15:09	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	03/06/2025 08:54	03/06/2025 15:09	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	03/06/2025 08:54	03/06/2025 15:09	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**1.11**		ug/L	1.11	1	EPA 6020B	03/06/2025 08:54	03/06/2025 15:09	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/06/2025 08:54	03/06/2025 15:09	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/06/2025 08:08	03/06/2025 08:08	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	03/03/2025 20:56	03/03/2025 21:30	SML
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	03/07/2025 14:58	03/07/2025 15:01	SL
							Certifications:			

Sample Information

Client Sample ID: **SOFB02_030325** **York Sample ID:** **25C0068-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 7:45 am	03/03/2025

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C-2016 / E-201(	03/05/2025 17:13	03/05/2025 21:00	SML

Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: **SOFB02_PFAS_030325** **York Sample ID:** **25C0068-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 7:50 am	03/03/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.450	1.69	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.335	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.679	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.651	1.75	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.402	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.785	1.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.498	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.718	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.08	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.842	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.708	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.660	1.91	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.756	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
2991-50-6	N-EtFOSAA	ND		ng/L	0.985	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.220	3.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.842	1.91	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.871	1.83	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.26	1.85	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	7.18	7.27	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.96	7.35	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.316	7.65	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM

Sample Information

Client Sample ID: SOFB02_PFAS_030325 **York Sample ID:** 25C0068-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 7:50 am	03/03/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.478	3.41	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/09/2025 14:27	03/11/2025 01:58	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.05	3.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/09/2025 14:27	03/11/2025 01:58	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.239	3.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/09/2025 14:27	03/11/2025 01:58	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.354	3.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/09/2025 14:27	03/11/2025 01:58	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.727	1.80	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.71	7.18	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.09	7.65	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.32	7.23	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.670	7.16	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
919005-14-4	ADONA	ND		ng/L	0.507	7.23	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.890	1.86	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 01:58	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.823	1.84	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/09/2025 14:27	03/11/2025 01:58	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND	PF-LCS-L	ng/L	1.94	4.78	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 01:58	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.01	23.9	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 01:58	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.06	23.9	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 01:58	AM
24448-09-7	* N-MeFOSE	ND		ng/L	3.82	19.1	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 01:58	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.51	1.91	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 01:58	AM
1691-99-2	* N-EtFOSE	ND		ng/L	3.82	19.1	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 01:58	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.72	1.91	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 01:58	AM

	Surrogate Recoveries	Result	Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*142 %*	*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*131 %*	*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*131 %*	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*138 %*	*25-150*

Sample Information

Client Sample ID: **SOFB02_PFAS_030325** **York Sample ID:** **25C0068-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 7:50 am	03/03/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*131 %*			*25-150*						
13C6PFDA	*Surrogate: M6PFDA*	*123 %*			*25-150*						
13C7PFUNA	*Surrogate: M7PFUdA*	*123 %*			*25-150*						
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*102 %*			*25-150*						
13C2PFTEDA	*Surrogate: M2PFTeDA*	*73.4 %*			*10-150*						
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*2.51 %*	PFSu-L		*25-150*						
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*122 %*			*25-150*						
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*71.6 %*			*25-150*						
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*138 %*			*10-150*						
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*124 %*			*25-150*						
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*146 %*			*25-150*						
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*121 %*			*25-200*						
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*135 %*			*25-200*						
13C9PFNA	*Surrogate: M9PFNA*	*126 %*			*25-150*						
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*117 %*			*25-150*						
936109-37-4	*Surrogate: d-N-MeFOSA*	*120 %*			*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*96.0 %*			*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*99.8 %*			*25-150*						
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*91.0 %*			*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*93.1 %*			*25-150*						

Sample Information

Client Sample ID: SOTB02_030325 **York Sample ID:** 25C0068-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 3:00 pm	03/03/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SOTB02_030325 **York Sample ID:** 25C0068-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 3:00 pm	03/03/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND		ug/L	1.34	2.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: **SOTB02_030325** **York Sample ID:** **25C0068-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 3:00 pm	03/03/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SOTB02_030325** **York Sample ID:** **25C0068-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 3:00 pm	03/03/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:29	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.9 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*92.5 %*	*79-122*

Sample Information

Client Sample ID: SB05_0-2 **York Sample ID:** 25C0068-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:54 am	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.045	0.091	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
591-78-6	2-Hexanone	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB05_0-2 **York Sample ID:** 25C0068-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:54 am	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0045	0.0091	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0045	0.0091	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB05_0-2 **York Sample ID:** 25C0068-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:54 am	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0045	0.0091	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0045	0.0091	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB05_0-2** **York Sample ID:** **25C0068-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:54 am	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0068	0.014	1	EPA 8260D	03/06/2025 12:00	03/06/2025 17:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*112 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	**1,1-Biphenyl**	**0.0765**	J	mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0911	0.182	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND	CAL-E	mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0911	0.182	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0911	0.182	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	**2-Methylnaphthalene**	**0.386**		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB05_0-2** **York Sample ID:** **25C0068-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:54 am	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0911	0.182	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0911	0.182	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0911	0.182	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0911	0.182	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0911	0.182	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	**Acenaphthene**	**0.716**		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.265**		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.182	0.365	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**2.14**		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.182	0.365	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**4.70**		mg/kg dry	0.228	0.456	10	EPA 8270E	03/10/2025 07:39	03/11/2025 18:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	**Benzo(a)pyrene**	**2.75**		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB05_0-2** **York Sample ID:** **25C0068-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:54 am	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	**Benzo(b)fluoranthene**	**2.87**		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**1.84**		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**2.25**		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.0481**	J	mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0911	0.182	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	**Carbazole**	**0.623**		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**5.14**		mg/kg dry	0.228	0.456	10	EPA 8270E	03/10/2025 07:39	03/11/2025 18:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	**Dibenzo(a,h)anthracene**	**0.761**		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	**Dibenzofuran**	**0.602**		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0911	0.182	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**12.2**		mg/kg dry	0.228	0.456	10	EPA 8270E	03/10/2025 07:39	03/11/2025 18:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	**Fluorene**	**0.854**		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		

Sample Information

Client Sample ID: **SB05_0-2** **York Sample ID:** **25C0068-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:54 am	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND	CAL-E	mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E	mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**1.76**		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.698**		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**10.3**		mg/kg dry	0.228	0.456	10	EPA 8270E	03/10/2025 07:39	03/11/2025 18:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0457	0.0911	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**12.0**		mg/kg dry	0.228	0.456	10	EPA 8270E	03/10/2025 07:39	03/11/2025 18:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.182	0.365	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:20	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*60.1 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*60.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*51.8 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*47.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*56.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*62.1 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB05_0-2** **York Sample ID:** **25C0068-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:54 am	03/03/2025

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.2	1	EPA 8270D SIM	03/11/2025 09:20	03/12/2025 11:17	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*66.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00176	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00176	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00176	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00176	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	**alpha-Chlordane**	**0.00267**		mg/kg dry	0.00176	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00176	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00176	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00176	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00176	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00176	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00176	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00176	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00176	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5566-34-7	**gamma-Chlordane**	**0.00255**		mg/kg dry	0.00176	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			

Sample Information

Client Sample ID: SB05_0-2 **York Sample ID:** 25C0068-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:54 am	03/03/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-44-8	Heptachlor	ND		mg/kg dry	0.00176	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00176	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00176	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.176	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0352	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:30	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*47.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*39.3 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0178	1	EPA 8082A	03/09/2025 12:41	03/10/2025 22:25	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0178	1	EPA 8082A	03/09/2025 12:41	03/10/2025 22:25	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0178	1	EPA 8082A	03/09/2025 12:41	03/10/2025 22:25	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0178	1	EPA 8082A	03/09/2025 12:41	03/10/2025 22:25	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0178	1	EPA 8082A	03/09/2025 12:41	03/10/2025 22:25	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0178	1	EPA 8082A	03/09/2025 12:41	03/10/2025 22:25	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0178	1	EPA 8082A	03/09/2025 12:41	03/10/2025 22:25	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0178	1	EPA 8082A	03/09/2025 12:41	03/10/2025 22:25	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*42.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*36.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB05_0-2** **York Sample ID:** **25C0068-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:54 am	03/03/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0219	1	EPA 8151A	03/10/2025 09:03	03/10/2025 18:59	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0219	1	EPA 8151A	03/10/2025 09:03	03/10/2025 18:59	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0219	1	EPA 8151A	03/10/2025 09:03	03/10/2025 18:59	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*62.6 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**11300**		mg/kg dry	4.57	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.28	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**6.27**		mg/kg dry	1.37	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**224**		mg/kg dry	2.28	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.533**		mg/kg dry	0.046	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.420**		mg/kg dry	0.274	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**12500**		mg/kg dry	4.57	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**29.7**		mg/kg dry	0.457	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**10.0**		mg/kg dry	0.365	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**72.4**		mg/kg dry	1.83	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**23800**		mg/kg dry	22.8	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**421**		mg/kg dry	0.457	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**5170**		mg/kg dry	4.57	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**314**		mg/kg dry	0.457	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**27.6**		mg/kg dry	0.910	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB05_0-2** **York Sample ID:** **25C0068-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:54 am	03/03/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**2230**		mg/kg dry	4.57	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.28	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.461	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**739**		mg/kg dry	45.7	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.83	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**33.9**		mg/kg dry	0.910	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**331**		mg/kg dry	2.28	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.291**		mg/kg dry	0.0329	1	EPA 7473	03/06/2025 13:34	03/07/2025 10:15	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.548	1	EPA 7196A	03/07/2025 09:20	03/07/2025 15:00	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**29.7**		mg/kg	0.500	1	Calculation	03/07/2025 16:40	03/07/2025 16:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.641**		mg/kg dry	0.548	1	EPA 9014/9010C	03/06/2025 16:25	03/06/2025 21:02	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB05_0-2** **York Sample ID:** **25C0068-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:54 am	03/03/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.2**		%	0.100	1	SM 2540G	03/05/2025 08:38	03/05/2025 09:55	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB05_5-7** **York Sample ID:** **25C0068-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:59 am	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.082	0.16	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.017**		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB05_5-7 **York Sample ID:** 25C0068-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:59 am	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.051**	ICVE	mg/kg dry	0.0082	0.016	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0082	0.016	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB05_5-7 **York Sample ID:** 25C0068-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:59 am	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0082	0.016	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0082	0.016	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	QL-02, CCVE	mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB05_5-7** **York Sample ID:** **25C0068-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:59 am	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.012	0.025	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*112 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*107 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*109 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.150	0.300	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND	CAL-E	mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.150	0.300	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.150	0.300	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB05_5-7 **York Sample ID:** 25C0068-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:59 am	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.150	0.300	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.150	0.300	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.150	0.300	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.150	0.300	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.150	0.300	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.301	0.602	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.301	0.602	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB05_5-7** **York Sample ID:** **25C0068-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:59 am	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.150	0.300	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.150	0.300	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB05_5-7** **York Sample ID:** **25C0068-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:59 am	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND	CAL-E	mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E	mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	**N-nitroso-di-n-propylamine**	**0.176**		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0753	0.150	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.301	0.602	2	EPA 8270E	03/10/2025 07:39	03/11/2025 13:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*80.0 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*80.1 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*63.5 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*57.3 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*73.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*73.0 %*	*24-116*

Sample Information

Client Sample ID: SB05_5-7 **York Sample ID:** 25C0068-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:59 am	03/03/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	20.0	1	EPA 8270D SIM	03/11/2025 09:20	03/12/2025 12:02	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*68.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00290	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00290	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00290	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00290	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00290	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00290	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00290	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00290	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00290	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00290	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00290	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00290	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00290	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00290	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00290	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00290	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: **SB05_5-7** **York Sample ID:** **25C0068-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:59 am	03/03/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00290	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00290	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00290	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00290	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.290	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0581	5	EPA 8081B	03/09/2025 12:44	03/11/2025 09:45	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*62.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*51.9 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0293	1	EPA 8082A	03/09/2025 12:41	03/10/2025 22:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0293	1	EPA 8082A	03/09/2025 12:41	03/10/2025 22:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0293	1	EPA 8082A	03/09/2025 12:41	03/10/2025 22:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0293	1	EPA 8082A	03/09/2025 12:41	03/10/2025 22:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0293	1	EPA 8082A	03/09/2025 12:41	03/10/2025 22:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0293	1	EPA 8082A	03/09/2025 12:41	03/10/2025 22:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0293	1	EPA 8082A	03/09/2025 12:41	03/10/2025 22:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0293	1	EPA 8082A	03/09/2025 12:41	03/10/2025 22:39	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*56.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB05_5-7** **York Sample ID:** **25C0068-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:59 am	03/03/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0351	1	EPA 8151A	03/10/2025 09:03	03/10/2025 19:06	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0351	1	EPA 8151A	03/10/2025 09:03	03/10/2025 19:06	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0351	1	EPA 8151A	03/10/2025 09:03	03/10/2025 19:06	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*71.8 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**21100**		mg/kg dry	7.53	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	3.76	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**10.7**		mg/kg dry	2.26	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**89.1**		mg/kg dry	3.76	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.867**		mg/kg dry	0.076	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.452	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**2090**		mg/kg dry	7.53	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**53.3**		mg/kg dry	0.753	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**14.0**		mg/kg dry	0.602	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**57.2**		mg/kg dry	3.01	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**34000**		mg/kg dry	37.6	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**70.2**		mg/kg dry	0.753	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**8130**		mg/kg dry	7.53	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**458**		mg/kg dry	0.753	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**43.5**		mg/kg dry	1.50	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB05_5-7** **York Sample ID:** **25C0068-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:59 am	03/03/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**5010**		mg/kg dry	7.53	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	3.76	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.759	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**3480**		mg/kg dry	75.3	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	3.02	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**48.2**		mg/kg dry	1.50	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**118**		mg/kg dry	3.75	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**1.32**		mg/kg dry	0.0542	1	EPA 7473	03/06/2025 13:34	03/07/2025 10:15	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.903	1	EPA 7196A	03/07/2025 09:20	03/07/2025 15:00	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**53.3**		mg/kg	0.500	1	Calculation	03/07/2025 16:40	03/07/2025 16:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.903	1	EPA 9014/9010C	03/06/2025 16:25	03/06/2025 21:02	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB05_5-7** **York Sample ID:** **25C0068-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 8:59 am	03/03/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**55.3**		%	0.100	1	SM 2540G	03/05/2025 08:38	03/05/2025 09:55	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB15_0-2** **York Sample ID:** **25C0068-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:17 am	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.053	0.11	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB15_0-2 **York Sample ID:** 25C0068-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:17 am	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0053	0.011	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0053	0.011	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB15_0-2 **York Sample ID:** 25C0068-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:17 am	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0053	0.011	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0053	0.011	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB15_0-2** **York Sample ID:** **25C0068-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:17 am	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0079	0.016	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*112 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0965	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND	CAL-E	mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0965	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0965	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB15_0-2 **York Sample ID:** 25C0068-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:17 am	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0965	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0965	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0965	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0965	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0965	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.193	0.387	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.193	0.387	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB15_0-2** **York Sample ID:** **25C0068-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:17 am	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0965	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0965	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB15_0-2** **York Sample ID:** **25C0068-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:17 am	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND	CAL-E	mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E	mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.193	0.387	2	EPA 8270E	03/10/2025 07:39	03/11/2025 14:21	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*53.4 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*53.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*48.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*44.8 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*55.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*58.2 %*	*24-116*

Sample Information

Client Sample ID: **SB15_0-2** **York Sample ID:** **25C0068-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:17 am	03/03/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.2	1	EPA 8270D SIM Certifications: NELAC-NY10854	03/11/2025 09:20	03/12/2025 12:17	SS

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*68.0 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.128	0.204	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**0.0686**	J	ug/kg dry	0.0609	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.121	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.206	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
335-67-1	**Perfluorooctanoic acid (PFOA)**	**0.441**		ug/kg dry	0.198	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**0.395**		ug/kg dry	0.192	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.217	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.220	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.228	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.187	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.144	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.118	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.170	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.223	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.125	0.460	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.168	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH

Sample Information

Client Sample ID: SB15_0-2 **York Sample ID:** 25C0068-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:17 am	03/03/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.178	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.220	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.862	0.874	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.868	0.883	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**0.145**	J	ug/kg dry	0.125	0.920	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.160	0.409	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:11	KFH
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.222	0.460	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:11	KFH
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0713	0.460	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:11	KFH
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.110	0.460	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:11	KFH
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.181	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.684	0.862	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.699	0.920	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.358	0.869	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.283	0.860	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
919005-14-4	* ADONA	ND		ug/kg dry	0.200	0.869	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.194	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:11	KFH
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.143	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:11	KFH
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.729	1.15	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:11	KFH
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.41	5.75	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:11	KFH
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND	PF-CCV-L	ug/kg dry	1.72	5.75	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:11	KFH
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.703	2.30	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:11	KFH

Sample Information

Client Sample ID: **SB15_0-2** **York Sample ID:** **25C0068-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:17 am	03/03/2025

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.207	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:11	KFH
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.802	2.30	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:11	KFH
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.228	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:11	KFH

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*97.4 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*93.4 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*109 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*93.6 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*87.1 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*102 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*104 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*84.5 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*82.2 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*15.1 %*	PFSu-L	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*91.4 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*37.3 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*73.3 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*81.6 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*88.8 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*87.7 %*		*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*85.7 %*		*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*86.1 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*91.3 %*		*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*65.1 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*52.2 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*95.6 %*		*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*55.9 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*53.5 %*		*25-150*

Sample Information

Client Sample ID: **SB15_0-2** **York Sample ID:** **25C0068-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:17 am	03/03/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:24	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
319-85-7	beta-BHC	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:24	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB15_0-2 **York Sample ID:** 25C0068-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:17 am	03/03/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0378	5	EPA 8081B Certifications:	03/11/2025 08:00	03/11/2025 17:24	RJ

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*94.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*78.9 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/08/2025 07:22	03/09/2025 15:47	NF
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/08/2025 07:22	03/09/2025 15:47	NF
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/08/2025 07:22	03/09/2025 15:47	NF
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/08/2025 07:22	03/09/2025 15:47	NF
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/08/2025 07:22	03/09/2025 15:47	NF
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/08/2025 07:22	03/09/2025 15:47	NF
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/08/2025 07:22	03/09/2025 15:47	NF
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications:	03/08/2025 07:22	03/09/2025 15:47	NF

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*45.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*38.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0230	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/10/2025 09:03	03/10/2025 16:35	GXB
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0230	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/10/2025 09:03	03/10/2025 16:35	GXB
94-75-7	2,4-D	ND		mg/kg dry	0.0230	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/10/2025 09:03	03/10/2025 16:35	GXB

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: SB15_0-2 **York Sample ID:** 25C0068-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:17 am	03/03/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*91.0 %*			*21-150*					

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**11800**		mg/kg dry	4.84	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.42	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**4.37**		mg/kg dry	1.45	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**65.6**		mg/kg dry	2.42	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.414**		mg/kg dry	0.049	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.290	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1360**		mg/kg dry	4.84	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**27.9**		mg/kg dry	0.484	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**7.99**		mg/kg dry	0.387	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**24.5**		mg/kg dry	1.94	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**17300**		mg/kg dry	24.2	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**33.0**		mg/kg dry	0.484	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3140**		mg/kg dry	4.84	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**306**		mg/kg dry	0.484	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**23.9**		mg/kg dry	0.964	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**1110**		mg/kg dry	4.84	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.42	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.488	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB15_0-2** **York Sample ID:** **25C0068-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:17 am	03/03/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**224**		mg/kg dry	48.4	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.94	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**30.9**		mg/kg dry	0.964	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**84.8**		mg/kg dry	2.41	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0416**		mg/kg dry	0.0348	1	EPA 7473	03/06/2025 13:34	03/07/2025 10:15	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.581	1	EPA 7196A	03/07/2025 09:20	03/07/2025 15:00	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**27.9**		mg/kg	0.500	1	Calculation	03/07/2025 16:40	03/07/2025 16:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.581	1	EPA 9014/9010C	03/06/2025 16:25	03/06/2025 21:02	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **SB15_0-2** **York Sample ID:** **25C0068-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:17 am	03/03/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**86.1**		%	0.100	1	SM 2540G	03/05/2025 08:38	03/05/2025 09:55	SMM
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: **SB15_5-7** **York Sample ID:** **25C0068-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:51 am	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.047	0.095	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB15_5-7 **York Sample ID:** 25C0068-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:51 am	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0047	0.0095	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0047	0.0095	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB15_5-7 **York Sample ID:** 25C0068-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:51 am	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0047	0.0095	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0047	0.0095	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB15_5-7 **York Sample ID:** 25C0068-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:51 am	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0071	0.014	1	EPA 8260D	03/06/2025 12:00	03/06/2025 18:54	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*113 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0946	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0946	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0946	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB15_5-7 **York Sample ID:** 25C0068-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:51 am	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0946	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0946	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0946	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0946	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0946	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.189	0.379	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.189	0.379	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB15_5-7 **York Sample ID:** 25C0068-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:51 am	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0946	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0946	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB15_5-7 **York Sample ID:** 25C0068-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:51 am	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.189	0.379	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:27	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*68.8 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*64.4 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*59.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*57.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*65.3 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*66.9 %*	*24-116*

Sample Information

Client Sample ID: SB15_5-7 **York Sample ID:** 25C0068-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:51 am	03/03/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.0	1	EPA 8270D SIM	03/11/2025 09:20	03/12/2025 12:31	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*68.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00185	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00185	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00185	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00185	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00185	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00185	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00185	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00185	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00185	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00185	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00185	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00185	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00185	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00185	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00185	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00185	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB15_5-7 **York Sample ID:** 25C0068-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:51 am	03/03/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00185	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00185	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00185	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00185	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.185	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0371	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:41	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*97.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*83.6 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0188	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:01	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0188	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:01	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0188	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:01	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0188	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:01	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0188	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:01	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0188	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:01	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0188	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:01	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0188	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:01	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*47.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*37.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB15_5-7** **York Sample ID:** **25C0068-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:51 am	03/03/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0227	1	EPA 8151A	03/09/2025 07:12	03/10/2025 13:47	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0227	1	EPA 8151A	03/09/2025 07:12	03/10/2025 13:47	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0227	1	EPA 8151A	03/09/2025 07:12	03/10/2025 13:47	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*77.2 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**6150**		mg/kg dry	4.74	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.37	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		mg/kg dry	1.42	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**41.5**		mg/kg dry	2.37	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.229**		mg/kg dry	0.048	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.285	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**681**		mg/kg dry	4.74	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**21.1**		mg/kg dry	0.475	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**6.20**		mg/kg dry	0.379	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**10.5**		mg/kg dry	1.90	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**10800**		mg/kg dry	23.7	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**1.67**		mg/kg dry	0.475	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**2470**		mg/kg dry	4.75	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**166**		mg/kg dry	0.475	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**39.4**		mg/kg dry	0.945	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB15_5-7** **York Sample ID:** **25C0068-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:51 am	03/03/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1670**		mg/kg dry	4.75	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.37	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.478	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**201**		mg/kg dry	47.4	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.90	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**21.1**		mg/kg dry	0.945	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**18.5**		mg/kg dry	2.36	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0342	1	EPA 7473	03/06/2025 13:34	03/07/2025 10:15	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.569	1	EPA 7196A	03/07/2025 09:20	03/07/2025 15:00	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**21.1**		mg/kg	0.500	1	Calculation	03/07/2025 16:40	03/07/2025 16:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.569	1	EPA 9014/9010C	03/06/2025 16:25	03/06/2025 21:02	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB15_5-7** **York Sample ID:** **25C0068-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 11:51 am	03/03/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**87.8**		%	0.100	1	SM 2540G	03/05/2025 08:38	03/05/2025 09:55	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB14_0-2 **York Sample ID:** 25C0068-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:09 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.036	0.072	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB14_0-2 **York Sample ID:** 25C0068-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:09 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0036	0.0072	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0036	0.0072	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB14_0-2 **York Sample ID:** 25C0068-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:09 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0036	0.0072	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0036	0.0072	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB14_0-2 **York Sample ID:** 25C0068-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:09 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0054	0.011	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:19	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*112 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB14_0-2 **York Sample ID:** 25C0068-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:09 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.182	0.364	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.182	0.364	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB14_0-2 **York Sample ID:** 25C0068-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:09 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB14_0-2** **York Sample ID:** **25C0068-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:09 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.182	0.364	2	EPA 8270E	03/10/2025 07:39	03/11/2025 19:58	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*56.4 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*52.5 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*47.9 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*46.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*54.9 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*54.6 %*	*24-116*

Sample Information

Client Sample ID: SB14_0-2 **York Sample ID:** 25C0068-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:09 pm	03/03/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.4	1	EPA 8270D SIM	03/11/2025 09:20	03/12/2025 12:47	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*76.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB14_0-2 **York Sample ID:** 25C0068-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:09 pm	03/03/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.178	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0356	5	EPA 8081B	03/11/2025 08:00	03/11/2025 17:59	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*93.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*79.6 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0181	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:14	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0181	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:14	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0181	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:14	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0181	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:14	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0181	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:14	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0181	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:14	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0181	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:14	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0181	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:14	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*43.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*34.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB14_0-2** **York Sample ID:** **25C0068-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:09 pm	03/03/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0218	1	EPA 8151A	03/09/2025 07:12	03/10/2025 13:54	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0218	1	EPA 8151A	03/09/2025 07:12	03/10/2025 13:54	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0218	1	EPA 8151A	03/09/2025 07:12	03/10/2025 13:54	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*71.4 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**11100**		mg/kg dry	4.55	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.28	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**5.31**		mg/kg dry	1.37	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**67.1**		mg/kg dry	2.27	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.427**		mg/kg dry	0.046	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.273	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1040**		mg/kg dry	4.56	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**25.4**		mg/kg dry	0.456	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**7.43**		mg/kg dry	0.364	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**27.0**		mg/kg dry	1.82	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**14100**		mg/kg dry	22.8	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**64.3**		mg/kg dry	0.456	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**2520**		mg/kg dry	4.56	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**385**		mg/kg dry	0.456	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**26.6**		mg/kg dry	0.907	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB14_0-2** **York Sample ID:** **25C0068-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:09 pm	03/03/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1060**		mg/kg dry	4.56	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.28	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.459	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**129**		mg/kg dry	45.6	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.83	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**33.4**		mg/kg dry	0.907	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**73.8**		mg/kg dry	2.27	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0328	1	EPA 7473	03/06/2025 13:34	03/07/2025 10:15	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.547	1	EPA 7196A	03/07/2025 09:20	03/07/2025 15:00	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**25.4**		mg/kg	0.500	1	Calculation	03/07/2025 16:40	03/07/2025 16:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.547	1	EPA 9014/9010C	03/06/2025 16:25	03/06/2025 21:02	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB14_0-2** **York Sample ID:** **25C0068-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:09 pm	03/03/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.5**		%	0.100	1	SM 2540G	03/05/2025 08:40	03/05/2025 10:15	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB14_5-7 **York Sample ID:** 25C0068-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:16 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.036	0.073	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB14_5-7 **York Sample ID:** 25C0068-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:16 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB14_5-7 **York Sample ID:** 25C0068-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:16 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB14_5-7 **York Sample ID:** 25C0068-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:16 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0018	0.0036	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0054	0.011	1	EPA 8260D	03/06/2025 12:00	03/06/2025 19:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*113 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0959	0.192	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0959	0.192	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0959	0.192	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB14_5-7 **York Sample ID:** 25C0068-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:16 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0959	0.192	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0959	0.192	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0959	0.192	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0959	0.192	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0959	0.192	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.192	0.384	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.192	0.384	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB14_5-7 **York Sample ID:** 25C0068-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:16 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0959	0.192	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0959	0.192	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB14_5-7 **York Sample ID:** 25C0068-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:16 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.192	0.384	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:28	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*54.5 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*51.2 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*44.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*43.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*54.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*56.6 %*	*24-116*

Sample Information

Client Sample ID: SB14_5-7 **York Sample ID:** 25C0068-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:16 pm	03/03/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.4	1	EPA 8270D SIM	03/11/2025 09:20	03/12/2025 13:01	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*76.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00188	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00188	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00188	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00188	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00188	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00188	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00188	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00188	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00188	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00188	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00188	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00188	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00188	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00188	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00188	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00188	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB14_5-7 **York Sample ID:** 25C0068-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:16 pm	03/03/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00188	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00188	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00188	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00188	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.188	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0376	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:16	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*97.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*86.1 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0191	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:28	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0191	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:28	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0191	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:28	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0191	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:28	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0191	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:28	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0191	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:28	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0191	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:28	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0191	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:28	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*57.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*47.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB14_5-7** **York Sample ID:** **25C0068-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:16 pm	03/03/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0230	1	EPA 8151A	03/09/2025 07:12	03/10/2025 14:01	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0230	1	EPA 8151A	03/09/2025 07:12	03/10/2025 14:01	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0230	1	EPA 8151A	03/09/2025 07:12	03/10/2025 14:01	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*82.3 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**5860**		mg/kg dry	4.81	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.40	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		mg/kg dry	1.44	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**51.8**		mg/kg dry	2.40	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.150**		mg/kg dry	0.048	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.288	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1550**		mg/kg dry	4.81	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**26.0**		mg/kg dry	0.481	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**8.75**		mg/kg dry	0.384	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**21.9**		mg/kg dry	1.92	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**11400**		mg/kg dry	24.0	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**1.30**		mg/kg dry	0.481	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**2860**		mg/kg dry	4.81	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**486**		mg/kg dry	0.481	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**46.5**		mg/kg dry	0.957	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB14_5-7** **York Sample ID:** **25C0068-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:16 pm	03/03/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1340**		mg/kg dry	4.81	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.40	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.484	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**208**		mg/kg dry	48.1	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.93	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**24.0**		mg/kg dry	0.957	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**17.2**		mg/kg dry	2.39	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0346	1	EPA 7473	03/06/2025 13:34	03/07/2025 10:15	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.577	1	EPA 7196A	03/07/2025 09:20	03/07/2025 15:00	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**26.0**		mg/kg	0.500	1	Calculation	03/07/2025 16:40	03/07/2025 16:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.577	1	EPA 9014/9010C	03/06/2025 16:25	03/06/2025 21:02	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB14_5-7** **York Sample ID:** **25C0068-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:16 pm	03/03/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**86.7**		%	0.100	1	SM 2540G	03/05/2025 08:40	03/05/2025 10:15	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB13_0-2** **York Sample ID:** **25C0068-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 1:49 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.052	0.10	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB13_0-2 **York Sample ID:** 25C0068-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 1:49 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0052	0.010	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0052	0.010	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB13_0-2 **York Sample ID:** 25C0068-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 1:49 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0052	0.010	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0052	0.010	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB13_0-2** **York Sample ID:** **25C0068-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 1:49 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0077	0.015	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*114 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB13_0-2 **York Sample ID:** 25C0068-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 1:49 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.189	0.378	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.189	0.378	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB13_0-2 **York Sample ID:** 25C0068-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 1:49 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB13_0-2 **York Sample ID:** 25C0068-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 1:49 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.189	0.378	2	EPA 8270E	03/10/2025 07:39	03/11/2025 20:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*53.4 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*52.3 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*48.3 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*48.3 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*56.1 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*59.0 %*	*24-116*

Sample Information

Client Sample ID: SB13_0-2 **York Sample ID:** 25C0068-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 1:49 pm	03/03/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.2	1	EPA 8270D SIM	03/11/2025 09:20	03/12/2025 13:16	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*74.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: **SB13_0-2** **York Sample ID:** **25C0068-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 1:49 pm	03/03/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0373	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:33	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*96.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*85.1 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0189	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:42	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0189	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:42	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0189	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:42	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0189	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:42	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0189	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:42	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0189	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:42	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0189	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:42	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0189	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:42	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*52.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*47.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB13_0-2** **York Sample ID:** **25C0068-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 1:49 pm	03/03/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0228	1	EPA 8151A	03/09/2025 07:12	03/10/2025 14:08	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0228	1	EPA 8151A	03/09/2025 07:12	03/10/2025 14:08	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0228	1	EPA 8151A	03/09/2025 07:12	03/10/2025 14:08	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*78.8 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**12600**		mg/kg dry	4.77	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.38	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.06**		mg/kg dry	1.43	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**77.8**		mg/kg dry	2.38	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.388**		mg/kg dry	0.048	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.286	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1250**		mg/kg dry	4.77	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**37.2**		mg/kg dry	0.477	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**10.5**		mg/kg dry	0.381	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**25.1**		mg/kg dry	1.91	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**17600**		mg/kg dry	23.8	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**16.9**		mg/kg dry	0.477	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3950**		mg/kg dry	4.77	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**316**		mg/kg dry	0.477	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**38.3**		mg/kg dry	0.949	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB13_0-2** **York Sample ID:** **25C0068-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 1:49 pm	03/03/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1980**		mg/kg dry	4.77	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.38	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.480	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**111**		mg/kg dry	47.7	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.91	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**34.0**		mg/kg dry	0.949	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**42.1**		mg/kg dry	2.37	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:50	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0343	1	EPA 7473	03/06/2025 13:34	03/07/2025 10:15	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.572	1	EPA 7196A	03/07/2025 09:20	03/07/2025 15:00	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**37.2**		mg/kg	0.500	1	Calculation	03/07/2025 16:40	03/07/2025 16:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.572	1	EPA 9014/9010C	03/06/2025 16:25	03/06/2025 21:02	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB13_0-2** **York Sample ID:** **25C0068-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 1:49 pm	03/03/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**87.4**		%	0.100	1	SM 2540G	03/05/2025 08:40	03/05/2025 10:15	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB13_5-7 **York Sample ID:** 25C0068-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:02 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.047	0.095	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB13_5-7 **York Sample ID:** 25C0068-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:02 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0047	0.0095	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0047	0.0095	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB13_5-7 **York Sample ID:** 25C0068-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:02 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0047	0.0095	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0047	0.0095	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB13_5-7 **York Sample ID:** 25C0068-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:02 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0071	0.014	1	EPA 8260D	03/06/2025 12:00	03/06/2025 20:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*113 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*108 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0926	0.185	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0926	0.185	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0926	0.185	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB13_5-7 **York Sample ID:** 25C0068-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:02 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0926	0.185	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0926	0.185	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0926	0.185	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0926	0.185	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0926	0.185	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.185	0.371	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.185	0.371	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB13_5-7 **York Sample ID:** 25C0068-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:02 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0926	0.185	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0926	0.185	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB13_5-7 **York Sample ID:** 25C0068-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:02 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0464	0.0926	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.185	0.371	2	EPA 8270E	03/10/2025 07:39	03/11/2025 21:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*72.7 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*69.2 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*64.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*62.8 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*76.1 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*79.2 %*	*24-116*

Sample Information

Client Sample ID: SB13_5-7 **York Sample ID:** 25C0068-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:02 pm	03/03/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.0	1	EPA 8270D SIM	03/11/2025 09:22	03/12/2025 16:08	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*70.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB13_5-7 **York Sample ID:** 25C0068-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:02 pm	03/03/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.183	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0365	5	EPA 8081B	03/11/2025 08:00	03/11/2025 18:51	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*96.5 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*83.3 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0186	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0186	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0186	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0186	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0186	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0186	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0186	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0186	1	EPA 8082A	03/08/2025 07:22	03/09/2025 16:56	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*65.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*53.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB13_5-7** **York Sample ID:** **25C0068-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:02 pm	03/03/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0224	1	EPA 8151A	03/09/2025 07:12	03/10/2025 14:15	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0224	1	EPA 8151A	03/09/2025 07:12	03/10/2025 14:15	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0224	1	EPA 8151A	03/09/2025 07:12	03/10/2025 14:15	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*77.1 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8220**		mg/kg dry	4.67	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.34	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		mg/kg dry	1.40	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**57.0**		mg/kg dry	2.33	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.199**		mg/kg dry	0.047	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.280	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1460**		mg/kg dry	4.67	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**31.3**		mg/kg dry	0.468	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**8.89**		mg/kg dry	0.373	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**22.4**		mg/kg dry	1.87	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**13600**		mg/kg dry	23.4	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**1.54**		mg/kg dry	0.468	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3110**		mg/kg dry	4.68	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**296**		mg/kg dry	0.468	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**49.5**		mg/kg dry	0.931	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB13_5-7** **York Sample ID:** **25C0068-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:02 pm	03/03/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1510**		mg/kg dry	4.68	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.34	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.471	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**169**		mg/kg dry	46.7	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.87	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**29.3**		mg/kg dry	0.931	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**17.2**		mg/kg dry	2.33	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0336	1	EPA 7473	03/06/2025 13:34	03/07/2025 10:15	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.561	1	EPA 7196A	03/07/2025 09:20	03/07/2025 15:00	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**31.3**		mg/kg	0.500	1	Calculation	03/07/2025 16:40	03/07/2025 16:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.561	1	EPA 9014/9010C	03/06/2025 16:25	03/06/2025 21:02	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB13_5-7** **York Sample ID:** **25C0068-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:02 pm	03/03/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.2**		%	0.100	1	SM 2540G	03/05/2025 08:40	03/05/2025 10:15	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB12_0-2 **York Sample ID:** 25C0068-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:51 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.045	0.091	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB12_0-2 **York Sample ID:** 25C0068-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:51 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0045	0.0091	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0045	0.0091	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB12_0-2 **York Sample ID:** 25C0068-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:51 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0045	0.0091	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0045	0.0091	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB12_0-2 **York Sample ID:** 25C0068-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:51 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0023	0.0045	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0068	0.014	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*113 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*108 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*110 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0964	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0964	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0964	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB12_0-2** **York Sample ID:** **25C0068-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:51 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0964	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0964	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0964	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0964	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0964	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.193	0.386	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.193	0.386	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.0840**	J	mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB12_0-2** **York Sample ID:** **25C0068-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:51 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.0693**	J	mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.0817**	J	mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.0524**	J	mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.0686**	J	mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0964	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.102**		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0964	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.156**		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB12_0-2** **York Sample ID:** **25C0068-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:51 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.0624**	J	mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.149**		mg/kg dry	0.0483	0.0964	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.193	0.386	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:00	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*65.4 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*64.8 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*57.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*54.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*67.9 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*67.8 %*	*24-116*

Sample Information

Client Sample ID: **SB12_0-2** **York Sample ID:** **25C0068-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:51 pm	03/03/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.9	1	EPA 8270D SIM	03/11/2025 09:22	03/12/2025 16:23	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*68.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB12_0-2 **York Sample ID:** 25C0068-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:51 pm	03/03/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0380	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:08	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*103 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*90.1 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0193	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0193	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0193	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0193	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0193	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0193	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0193	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0193	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:10	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*55.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*48.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB12_0-2** **York Sample ID:** **25C0068-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:51 pm	03/03/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0229	1	EPA 8151A	03/09/2025 07:12	03/10/2025 14:23	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0229	1	EPA 8151A	03/09/2025 07:12	03/10/2025 14:23	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0229	1	EPA 8151A	03/09/2025 07:12	03/10/2025 14:23	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*70.6 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**15700**		mg/kg dry	4.86	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.43	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**5.09**		mg/kg dry	1.46	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**79.1**		mg/kg dry	2.43	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.566**		mg/kg dry	0.049	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.292	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**720**		mg/kg dry	4.86	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**24.6**		mg/kg dry	0.487	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**9.57**		mg/kg dry	0.389	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**21.6**		mg/kg dry	1.95	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**18000**		mg/kg dry	24.3	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**53.7**		mg/kg dry	0.487	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3160**		mg/kg dry	4.87	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**384**		mg/kg dry	0.487	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**20.2**		mg/kg dry	0.969	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB12_0-2** **York Sample ID:** **25C0068-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:51 pm	03/03/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**879**		mg/kg dry	4.87	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.43	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.490	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**88.6**		mg/kg dry	48.6	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.95	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**34.3**		mg/kg dry	0.969	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**68.9**		mg/kg dry	2.42	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.124**		mg/kg dry	0.0350	1	EPA 7473	03/06/2025 13:34	03/07/2025 10:15	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.584	1	EPA 7196A	03/07/2025 09:20	03/07/2025 15:00	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**24.6**		mg/kg	0.500	1	Calculation	03/07/2025 16:40	03/07/2025 16:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.584	1	EPA 9014/9010C	03/06/2025 16:25	03/06/2025 21:02	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB12_0-2** **York Sample ID:** **25C0068-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:51 pm	03/03/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**85.7**		%	0.100	1	SM 2540G	03/05/2025 08:40	03/05/2025 10:15	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB12_5-7 **York Sample ID:** 25C0068-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:57 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.037	0.073	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB12_5-7 **York Sample ID:** 25C0068-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:57 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0037	0.0073	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0037	0.0073	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB12_5-7 **York Sample ID:** 25C0068-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:57 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0037	0.0073	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0037	0.0073	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB12_5-7 **York Sample ID:** 25C0068-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:57 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0018	0.0037	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0055	0.011	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*115 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0966	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0966	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0966	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB12_5-7 **York Sample ID:** 25C0068-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:57 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0966	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0966	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0966	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0966	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0966	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.193	0.387	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.193	0.387	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB12_5-7** **York Sample ID:** **25C0068-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:57 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0966	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	**Di-n-octyl phthalate**	**0.0587**	J	mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0966	0.193	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB12_5-7 **York Sample ID:** 25C0068-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:57 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0484	0.0966	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.193	0.387	2	EPA 8270E	03/10/2025 07:39	03/11/2025 22:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*72.2 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*68.3 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*60.9 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*57.1 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*73.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*75.7 %*	*24-116*

Sample Information

Client Sample ID: SB12_5-7 **York Sample ID:** 25C0068-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:57 pm	03/03/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.3	1	EPA 8270D SIM	03/11/2025 09:22	03/12/2025 16:38	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*56.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB12_5-7 **York Sample ID:** 25C0068-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:57 pm	03/03/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.190	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0381	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:25	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*99.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*87.6 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0194	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:24	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0194	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:24	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0194	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:24	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0194	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:24	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0194	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:24	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0194	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:24	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0194	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:24	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0194	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:24	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*50.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*45.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB12_5-7** **York Sample ID:** **25C0068-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:57 pm	03/03/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0229	1	EPA 8151A	03/09/2025 07:12	03/10/2025 14:30	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0229	1	EPA 8151A	03/09/2025 07:12	03/10/2025 14:30	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0229	1	EPA 8151A	03/09/2025 07:12	03/10/2025 14:30	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*70.0 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**19200**		mg/kg dry	4.87	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.44	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.70**		mg/kg dry	1.46	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**59.3**		mg/kg dry	2.43	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.397**		mg/kg dry	0.049	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.292	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**583**		mg/kg dry	4.87	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**55.0**		mg/kg dry	0.488	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**15.7**		mg/kg dry	0.389	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**26.9**		mg/kg dry	1.95	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**27000**		mg/kg dry	24.4	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**4.83**		mg/kg dry	0.488	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**5650**		mg/kg dry	4.88	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**326**		mg/kg dry	0.488	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**62.2**		mg/kg dry	0.971	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB12_5-7** **York Sample ID:** **25C0068-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:57 pm	03/03/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**2770**		mg/kg dry	4.88	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.44	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.491	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**195**		mg/kg dry	48.7	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.95	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**47.3**		mg/kg dry	0.971	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**36.5**		mg/kg dry	2.43	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0351	1	EPA 7473	03/06/2025 13:34	03/07/2025 10:15	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.585	1	EPA 7196A	03/07/2025 09:20	03/07/2025 15:00	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**55.0**		mg/kg	0.500	1	Calculation	03/07/2025 16:40	03/07/2025 16:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.585	1	EPA 9014/9010C	03/07/2025 08:38	03/07/2025 14:21	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB12_5-7** **York Sample ID:** **25C0068-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 2:57 pm	03/03/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**85.5**		%	0.100	1	SM 2540G	03/05/2025 08:40	03/05/2025 10:15	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB11_0-2** **York Sample ID:** **25C0068-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.053	0.11	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB11_0-2 **York Sample ID:** 25C0068-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0053	0.011	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0053	0.011	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB11_0-2 **York Sample ID:** 25C0068-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0053	0.011	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0053	0.011	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB11_0-2** **York Sample ID:** **25C0068-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0079	0.016	1	EPA 8260D	03/06/2025 12:00	03/06/2025 21:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*114 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*109 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0949	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0949	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0949	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB11_0-2** **York Sample ID:** **25C0068-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0949	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0949	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0949	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0949	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0949	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.190	0.380	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.190	0.380	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.0804**	J	mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB11_0-2** **York Sample ID:** **25C0068-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.0736**	J	mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.0834**	J	mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.0508**	J	mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.0736**	J	mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0949	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.102**		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	**Di-n-octyl phthalate**	**0.0561**	J	mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0949	0.189	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.148**		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB11_0-2** **York Sample ID:** **25C0068-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.0622**	J	mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.152**		mg/kg dry	0.0475	0.0949	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.190	0.380	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*59.2 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*57.8 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*54.8 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*54.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*63.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*69.7 %*	*24-116*

Sample Information

Client Sample ID: **SB11_0-2** **York Sample ID:** **25C0068-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.9	1	EPA 8270D SIM	03/11/2025 09:22	03/12/2025 16:53	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*78.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00187	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00187	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00187	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00187	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00187	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00187	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00187	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00187	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00187	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00187	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00187	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00187	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00187	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00187	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00187	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00187	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB11_0-2 **York Sample ID:** 25C0068-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00187	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00187	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00187	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00187	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.187	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0374	5	EPA 8081B	03/11/2025 08:00	03/11/2025 19:43	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*98.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*85.2 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0190	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:37	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0190	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:37	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0190	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:37	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0190	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:37	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0190	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:37	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0190	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:37	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0190	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:37	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0190	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:37	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*66.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*51.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB11_0-2** **York Sample ID:** **25C0068-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0225	1	EPA 8151A	03/09/2025 07:12	03/10/2025 14:52	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0225	1	EPA 8151A	03/09/2025 07:12	03/10/2025 14:52	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0225	1	EPA 8151A	03/09/2025 07:12	03/10/2025 14:52	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*64.5 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**13400**		mg/kg dry	4.79	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.39	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.60**		mg/kg dry	1.44	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**82.5**		mg/kg dry	2.39	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.451**		mg/kg dry	0.048	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.287	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**3100**		mg/kg dry	4.79	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**27.6**		mg/kg dry	0.479	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**9.61**		mg/kg dry	0.383	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**19.4**		mg/kg dry	1.92	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**18000**		mg/kg dry	23.9	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**20.9**		mg/kg dry	0.479	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3170**		mg/kg dry	4.79	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**419**		mg/kg dry	0.479	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**29.5**		mg/kg dry	0.954	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB11_0-2** **York Sample ID:** **25C0068-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1410**		mg/kg dry	4.79	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.39	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.483	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**297**		mg/kg dry	47.9	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.92	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**31.5**		mg/kg dry	0.954	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**39.9**		mg/kg dry	2.38	1	EPA 6010D	03/06/2025 14:44	03/07/2025 11:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0533**		mg/kg dry	0.0345	1	EPA 7473	03/06/2025 13:34	03/07/2025 10:15	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.574	1	EPA 7196A	03/07/2025 09:20	03/07/2025 15:00	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**27.6**		mg/kg	0.500	1	Calculation	03/07/2025 16:40	03/07/2025 16:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.574	1	EPA 9014/9010C	03/07/2025 08:38	03/07/2025 14:21	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB11_0-2** **York Sample ID:** **25C0068-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**87.0**		%	0.100	1	SM 2540G	03/05/2025 08:40	03/05/2025 10:15	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB11_5-7 **York Sample ID:** 25C0068-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.044	0.088	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB11_5-7 **York Sample ID:** 25C0068-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.010**	ICVE	mg/kg dry	0.0044	0.0088	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0044	0.0088	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB11_5-7 **York Sample ID:** 25C0068-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0044	0.0088	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0044	0.0088	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB11_5-7 **York Sample ID:** 25C0068-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0066	0.013	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*113 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0931	0.186	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0931	0.186	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0931	0.186	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB11_5-7 **York Sample ID:** 25C0068-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0931	0.186	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0931	0.186	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0931	0.186	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0931	0.186	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0931	0.186	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.186	0.373	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.186	0.373	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB11_5-7 **York Sample ID:** 25C0068-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0931	0.186	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0931	0.186	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB11_5-7 **York Sample ID:** 25C0068-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0467	0.0931	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.186	0.373	2	EPA 8270E	03/10/2025 07:39	03/11/2025 23:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*62.4 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*59.5 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*53.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*50.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*63.9 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*63.4 %*	*24-116*

Sample Information

Client Sample ID: SB11_5-7 **York Sample ID:** 25C0068-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	20.0	1	EPA 8270D SIM	03/11/2025 09:22	03/12/2025 17:08	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*60.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB11_5-7 **York Sample ID:** 25C0068-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.184	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0368	5	EPA 8081B	03/11/2025 08:00	03/11/2025 20:15	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*93.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*76.2 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0187	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:51	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0187	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:51	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0187	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:51	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0187	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:51	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0187	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:51	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0187	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:51	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0187	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:51	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0187	1	EPA 8082A	03/08/2025 07:22	03/09/2025 17:51	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*45.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*40.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SB11_5-7 **York Sample ID:** 25C0068-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0221	1	EPA 8151A	03/09/2025 07:12	03/10/2025 14:59	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0221	1	EPA 8151A	03/09/2025 07:12	03/10/2025 14:59	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0221	1	EPA 8151A	03/09/2025 07:12	03/10/2025 14:59	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*82.5 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**4620**		mg/kg dry	4.70	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.35	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		mg/kg dry	1.41	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**21.8**		mg/kg dry	2.35	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.166**		mg/kg dry	0.047	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.282	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**915**		mg/kg dry	4.70	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**10.7**		mg/kg dry	0.470	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**3.42**		mg/kg dry	0.375	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**7.20**		mg/kg dry	1.88	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**6570**		mg/kg dry	23.5	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**2.72**		mg/kg dry	0.470	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**1140**		mg/kg dry	4.70	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**142**		mg/kg dry	0.470	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**8.75**		mg/kg dry	0.936	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB11_5-7** **York Sample ID:** **25C0068-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**591**		mg/kg dry	4.70	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.35	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.474	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**164**		mg/kg dry	47.0	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.88	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**11.7**		mg/kg dry	0.936	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**11.6**		mg/kg dry	2.34	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0338	1	EPA 7473	03/06/2025 13:34	03/07/2025 10:15	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.564	1	EPA 7196A	03/07/2025 09:20	03/07/2025 15:00	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**10.7**		mg/kg	0.500	1	Calculation	03/07/2025 16:40	03/07/2025 16:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.564	1	EPA 9014/9010C	03/07/2025 08:38	03/07/2025 14:21	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB11_5-7** **York Sample ID:** **25C0068-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**88.7**		%	0.100	1	SM 2540G	03/05/2025 08:40	03/05/2025 10:15	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB20_0-2 **York Sample ID:** 25C0068-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.054	0.11	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB20_0-2 **York Sample ID:** 25C0068-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0054	0.011	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0054	0.011	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB20_0-2 **York Sample ID:** 25C0068-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0054	0.011	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0054	0.011	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB20_0-2 **York Sample ID:** 25C0068-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0081	0.016	1	EPA 8260D	03/06/2025 12:00	03/06/2025 22:40	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*116 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*109 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0939	0.188	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0939	0.188	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0939	0.188	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB20_0-2 **York Sample ID:** 25C0068-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0939	0.188	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0939	0.188	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0939	0.188	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0939	0.188	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0939	0.188	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.188	0.376	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.188	0.376	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB20_0-2 **York Sample ID:** 25C0068-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0939	0.188	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0939	0.188	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB20_0-2** **York Sample ID:** **25C0068-16**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0470	0.0939	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.188	0.376	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:03	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*59.8 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*56.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*51.5 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*49.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*60.3 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*59.6 %*	*24-116*

Sample Information

Client Sample ID: SB20_0-2 **York Sample ID:** 25C0068-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.5	1	EPA 8270D SIM	03/11/2025 09:22	03/12/2025 17:53	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*68.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: **SB20_0-2** **York Sample ID:** **25C0068-16**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.186	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0371	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:06	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*94.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*79.6 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0188	1	EPA 8082A	03/08/2025 07:22	03/09/2025 18:05	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0188	1	EPA 8082A	03/08/2025 07:22	03/09/2025 18:05	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0188	1	EPA 8082A	03/08/2025 07:22	03/09/2025 18:05	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0188	1	EPA 8082A	03/08/2025 07:22	03/09/2025 18:05	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0188	1	EPA 8082A	03/08/2025 07:22	03/09/2025 18:05	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0188	1	EPA 8082A	03/08/2025 07:22	03/09/2025 18:05	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0188	1	EPA 8082A	03/08/2025 07:22	03/09/2025 18:05	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0188	1	EPA 8082A	03/08/2025 07:22	03/09/2025 18:05	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*42.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*37.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB20_0-2** **York Sample ID:** **25C0068-16**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0223	1	EPA 8151A	03/09/2025 07:12	03/10/2025 15:06	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0223	1	EPA 8151A	03/09/2025 07:12	03/10/2025 15:06	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0223	1	EPA 8151A	03/09/2025 07:12	03/10/2025 15:06	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*71.1 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7840**		mg/kg dry	4.74	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.37	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.19**		mg/kg dry	1.42	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**62.6**		mg/kg dry	2.36	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.323**		mg/kg dry	0.048	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.284	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**5120**		mg/kg dry	4.74	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**18.4**		mg/kg dry	0.474	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**6.09**		mg/kg dry	0.379	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**28.8**		mg/kg dry	1.90	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**12200**		mg/kg dry	23.7	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**37.0**		mg/kg dry	0.474	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3750**		mg/kg dry	4.74	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**345**		mg/kg dry	0.474	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**20.8**		mg/kg dry	0.944	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB20_0-2** **York Sample ID:** **25C0068-16**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1180**		mg/kg dry	4.74	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.37	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.477	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**209**		mg/kg dry	47.4	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.90	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**21.2**		mg/kg dry	0.944	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**94.8**		mg/kg dry	2.36	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0350**		mg/kg dry	0.0341	1	EPA 7473	03/06/2025 13:34	03/07/2025 10:15	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.568	1	EPA 7196A	03/07/2025 09:20	03/07/2025 15:00	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**18.4**		mg/kg	0.500	1	Calculation	03/07/2025 16:40	03/07/2025 16:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.568	1	EPA 9014/9010C	03/07/2025 08:38	03/07/2025 14:21	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB20_0-2** **York Sample ID:** **25C0068-16**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:26 pm	03/03/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**88.0**		%	0.100	1	SM 2540G	03/05/2025 08:40	03/05/2025 10:15	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB20_5-7** **York Sample ID:** **25C0068-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.049	0.097	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.014**		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB20_5-7 **York Sample ID:** 25C0068-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.044**	ICVE	mg/kg dry	0.0049	0.0097	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0049	0.0097	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB20_5-7 **York Sample ID:** 25C0068-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0049	0.0097	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0049	0.0097	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB20_5-7 **York Sample ID:** 25C0068-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0073	0.015	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:05	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*115 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0956	0.191	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0956	0.191	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0956	0.191	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB20_5-7 **York Sample ID:** 25C0068-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0956	0.191	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0956	0.191	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0956	0.191	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0956	0.191	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0956	0.191	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.191	0.383	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.191	0.383	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB20_5-7** **York Sample ID:** **25C0068-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0956	0.191	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	**Di-n-octyl phthalate**	**0.0550**	J	mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0956	0.191	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB20_5-7 **York Sample ID:** 25C0068-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0479	0.0956	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.191	0.383	2	EPA 8270E	03/10/2025 07:39	03/12/2025 00:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*126 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*119 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*107 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*102 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*131 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*125 %*	*24-116*

Sample Information

Client Sample ID: SB20_5-7 **York Sample ID:** 25C0068-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.0	1	EPA 8270D SIM Certifications: NELAC-NY10854	03/11/2025 09:22	03/12/2025 18:08	SS

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*76.0 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.129	0.205	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0614	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.122	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.207	0.212	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.199	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.193	0.215	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.219	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.221	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.229	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.189	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.145	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.119	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.171	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.225	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.126	0.463	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.169	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH

Sample Information

Client Sample ID: SB20_5-7 **York Sample ID:** 25C0068-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.179	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.221	0.224	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.869	0.880	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.874	0.889	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.126	0.926	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.161	0.412	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:47	KFH
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.224	0.463	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:47	KFH
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0718	0.463	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:47	KFH
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.111	0.463	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:47	KFH
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.182	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.689	0.869	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.704	0.926	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.360	0.875	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.285	0.866	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
919005-14-4	* ADONA	ND		ug/kg dry	0.202	0.875	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.196	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:47	KFH
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.144	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/07/2025 10:22	03/10/2025 16:47	KFH
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.734	1.16	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:47	KFH
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.43	5.79	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:47	KFH
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND	PF-CCV-L	ug/kg dry	1.74	5.79	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:47	KFH
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.708	2.32	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:47	KFH

Sample Information

Client Sample ID: **SB20_5-7** **York Sample ID:** **25C0068-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.208	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:47	KFH
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.807	2.32	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:47	KFH
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.229	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/07/2025 10:22	03/10/2025 16:47	KFH

	Surrogate Recoveries	Result	Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*103 %*	*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*92.1 %*	*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*114 %*	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*101 %*	*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*102 %*	*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*98.4 %*	*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*92.2 %*	*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*78.7 %*	*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*69.0 %*	*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*65.6 %*	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*88.2 %*	*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*77.2 %*	*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*83.5 %*	*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*87.4 %*	*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*90.3 %*	*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*89.5 %*	*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*92.5 %*	*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*89.7 %*	*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*98.2 %*	*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*76.0 %*	*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*52.3 %*	*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*104 %*	*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*54.7 %*	*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*53.5 %*	*25-150*

Sample Information

Client Sample ID: SB20_5-7 **York Sample ID:** 25C0068-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

PEST, 8081 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:24	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
319-85-7	beta-BHC	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:24	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.189	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB20_5-7 **York Sample ID:** 25C0068-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0378	5	EPA 8081B Certifications:	03/11/2025 08:00	03/11/2025 21:24	RJ

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*102 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*86.6 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/08/2025 07:22	03/09/2025 18:19	NF
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/08/2025 07:22	03/09/2025 18:19	NF
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/08/2025 07:22	03/09/2025 18:19	NF
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/08/2025 07:22	03/09/2025 18:19	NF
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/08/2025 07:22	03/09/2025 18:19	NF
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/08/2025 07:22	03/09/2025 18:19	NF
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/08/2025 07:22	03/09/2025 18:19	NF
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications:	03/08/2025 07:22	03/09/2025 18:19	NF

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*54.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*46.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0227	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/09/2025 07:12	03/10/2025 15:13	GXB
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0227	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/09/2025 07:12	03/10/2025 15:13	GXB
94-75-7	2,4-D	ND		mg/kg dry	0.0227	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/09/2025 07:12	03/10/2025 15:13	GXB

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: SB20_5-7 **York Sample ID:** 25C0068-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*109 %*			*21-150*					

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**11100**		mg/kg dry	4.82	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.41	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.08**		mg/kg dry	1.45	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**75.3**		mg/kg dry	2.41	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.308**		mg/kg dry	0.049	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.290	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1330**		mg/kg dry	4.83	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**32.8**		mg/kg dry	0.483	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**9.87**		mg/kg dry	0.386	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**19.4**		mg/kg dry	1.93	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**15100**		mg/kg dry	24.1	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**16.1**		mg/kg dry	0.483	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3580**		mg/kg dry	4.83	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**212**		mg/kg dry	0.483	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**38.4**		mg/kg dry	0.961	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**2180**		mg/kg dry	4.83	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.41	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.486	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB20_5-7** **York Sample ID:** **25C0068-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**332**		mg/kg dry	48.3	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.93	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**31.5**		mg/kg dry	0.961	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**31.3**		mg/kg dry	2.40	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0347	1	EPA 7473	03/06/2025 13:34	03/07/2025 10:15	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.579	1	EPA 7196A	03/07/2025 09:20	03/07/2025 15:00	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**32.8**		mg/kg	0.500	1	Calculation	03/07/2025 16:40	03/07/2025 16:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.579	1	EPA 9014/9010C	03/07/2025 08:38	03/07/2025 14:21	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **SB20_5-7** **York Sample ID:** **25C0068-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:33 pm	03/03/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**86.4**		%	0.100	1	SM 2540G	03/05/2025 08:40	03/05/2025 10:15	SMM
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: **SODUP03_030325** **York Sample ID:** **25C0068-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:00 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.057	0.11	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SODUP03_030325 **York Sample ID:** 25C0068-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:00 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: **SODUP03_030325** **York Sample ID:** **25C0068-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:00 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SODUP03_030325** **York Sample ID:** **25C0068-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:00 pm	03/03/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0086	0.017	1	EPA 8260D	03/06/2025 12:00	03/06/2025 23:30	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*118 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*108 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0914	0.183	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0914	0.183	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0914	0.183	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	**2-Methylnaphthalene**	**0.0621**	J	mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SODUP03_030325** **York Sample ID:** **25C0068-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:00 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0914	0.183	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0914	0.183	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0914	0.183	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0914	0.183	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0914	0.183	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.205**		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.183	0.366	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.205**		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.183	0.366	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.656**		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SODUP03_030325** **York Sample ID:** **25C0068-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:00 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.512**		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.489**		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.354**		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.485**		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.0511**	J	mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0914	0.183	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.650**		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	**Dibenzo(a,h)anthracene**	**0.120**		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0914	0.183	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**1.01**		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SODUP03_030325** **York Sample ID:** **25C0068-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:00 pm	03/03/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.300**		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.0957**		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.461**		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**1.22**		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.183	0.366	2	EPA 8270E	03/10/2025 07:39	03/12/2025 01:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*64.7 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*63.2 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*52.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*49.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*57.0 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*69.3 %*	*24-116*

Sample Information

Client Sample ID: **SODUP03_030325** **York Sample ID:** **25C0068-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:00 pm	03/03/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.6	1	EPA 8270D SIM	03/11/2025 09:22	03/12/2025 18:23	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*66.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	**4,4'-DDD**	**0.00250**		mg/kg dry	0.00181	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	**4,4'-DDE**	**0.00186**		mg/kg dry	0.00181	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	**4,4'-DDT**	**0.00305**		mg/kg dry	0.00181	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00181	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00181	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	**alpha-Chlordane**	**0.00381**		mg/kg dry	0.00181	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00181	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00181	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	**Dieldrin**	**0.00369**		mg/kg dry	0.00181	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00181	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00181	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00181	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00181	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00181	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00181	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00181	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: **SODUP03_030325** **York Sample ID:** **25C0068-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:00 pm	03/03/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	**gamma-Chlordane**	**0.00413**		mg/kg dry	0.00181	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
76-44-8	Heptachlor	ND		mg/kg dry	0.00181	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00181	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-43-5	Methoxychlor	ND		mg/kg dry	0.00181	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
8001-35-2	Toxaphene	ND		mg/kg dry	0.181	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0362	5	EPA 8081B	03/11/2025 08:00	03/11/2025 21:41	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*75.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*69.9 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0183	1	EPA 8082A	03/08/2025 07:22	03/09/2025 18:33	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0183	1	EPA 8082A	03/08/2025 07:22	03/09/2025 18:33	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0183	1	EPA 8082A	03/08/2025 07:22	03/09/2025 18:33	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0183	1	EPA 8082A	03/08/2025 07:22	03/09/2025 18:33	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0183	1	EPA 8082A	03/08/2025 07:22	03/09/2025 18:33	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0183	1	EPA 8082A	03/08/2025 07:22	03/09/2025 18:33	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0183	1	EPA 8082A	03/08/2025 07:22	03/09/2025 18:33	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0183	1	EPA 8082A	03/08/2025 07:22	03/09/2025 18:33	NF
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*31.0 %*		*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*25.0 %*	S-08, S-GC	*30-120*

Sample Information

Client Sample ID: **SODUP03_030325** **York Sample ID:** **25C0068-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:00 pm	03/03/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0217	1	EPA 8151A	03/09/2025 07:12	03/10/2025 15:21	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0217	1	EPA 8151A	03/09/2025 07:12	03/10/2025 15:21	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0217	1	EPA 8151A	03/09/2025 07:12	03/10/2025 15:21	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*69.4 %*	*21-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9580**		mg/kg dry	4.61	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.31	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**5.27**		mg/kg dry	1.38	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**68.9**		mg/kg dry	2.30	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.341**		mg/kg dry	0.046	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.277	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**10200**		mg/kg dry	4.61	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**21.3**		mg/kg dry	0.462	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**6.96**		mg/kg dry	0.369	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**33.1**		mg/kg dry	1.85	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**14500**		mg/kg dry	23.1	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**69.7**		mg/kg dry	0.462	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**5470**		mg/kg dry	4.62	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**238**		mg/kg dry	0.462	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SODUP03_030325** **York Sample ID:** **25C0068-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:00 pm	03/03/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	**Nickel**	**17.7**		mg/kg dry	0.919	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**1730**		mg/kg dry	4.62	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.31	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.465	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**649**		mg/kg dry	46.1	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.85	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**27.6**		mg/kg dry	0.919	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**79.6**		mg/kg dry	2.30	1	EPA 6010D	03/06/2025 14:44	03/07/2025 12:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.231**		mg/kg dry	0.0332	1	EPA 7473	03/06/2025 13:34	03/07/2025 10:15	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.553	1	EPA 7196A	03/07/2025 09:20	03/07/2025 15:00	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**21.3**		mg/kg	0.500	1	Calculation	03/07/2025 16:40	03/07/2025 16:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **SODUP03_030325** **York Sample ID:** **25C0068-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Soil	March 3, 2025 3:00 pm	03/03/2025

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.553	1	EPA 9014/9010C	03/07/2025 08:38	03/07/2025 14:21	LJM
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.3**		%	0.100	1	SM 2540G	03/05/2025 08:40	03/05/2025 10:15	SMM
							Certifications: CTDOH-PH-0723			

Analytical Batch Summary

Batch ID: BC50076 **Preparation Method:** EPA 8151A **Prepared By:** YL

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-01	SOFB02_030325	03/04/25
BC50076-BLK1	Blank	03/04/25
BC50076-BS1	LCS	03/04/25
BC50076-BSD1	LCS Dup	03/04/25

Batch ID: BC50139 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-01	SOFB02_030325	03/03/25
BC50139-BLK1	Blank	03/03/25
BC50139-BS1	LCS	03/03/25

Batch ID: BC50176 **Preparation Method:** EPA 3535A **Prepared By:** NMB2

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-01	SOFB02_030325	03/04/25
BC50176-BLK1	Blank	03/04/25
BC50176-BS1	LCS	03/04/25

Batch ID: BC50272 **Preparation Method:** EPA 5030B **Prepared By:** SCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-01	SOFB02_030325	03/05/25
25C0068-03	SOTB02_030325	03/05/25
BC50272-BLK1	Blank	03/05/25
BC50272-BS1	LCS	03/05/25
BC50272-BSD1	LCS Dup	03/05/25

Batch ID: BC50280 **Preparation Method:** % Solids Prep **Prepared By:** SMM

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-04	SB05_0-2	03/05/25
25C0068-05	SB05_5-7	03/05/25
25C0068-06	SB15_0-2	03/05/25
25C0068-07	SB15_5-7	03/05/25
BC50280-DUP1	Duplicate	03/05/25

Batch ID: BC50281 **Preparation Method:** % Solids Prep **Prepared By:** SMM

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-08	SB14_0-2	03/05/25
25C0068-09	SB14_5-7	03/05/25

25C0068-10	SB13_0-2	03/05/25
25C0068-11	SB13_5-7	03/05/25
25C0068-12	SB12_0-2	03/05/25
25C0068-13	SB12_5-7	03/05/25
25C0068-14	SB11_0-2	03/05/25
25C0068-15	SB11_5-7	03/05/25
25C0068-16	SB20_0-2	03/05/25
25C0068-17	SB20_5-7	03/05/25
25C0068-18	SODUP03_030325	03/05/25

Batch ID: BC50347 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-01	SOFB02_030325	03/05/25
BC50347-BLK1	Blank	03/05/25
BC50347-BS1	LCS	03/05/25

Batch ID: BC50367 **Preparation Method:** EPA SW846-7470A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-01	SOFB02_030325	03/06/25
BC50367-BLK1	Blank	03/06/25
BC50367-BS1	LCS	03/06/25

Batch ID: BC50383 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-01	SOFB02_030325	03/06/25
BC50383-BLK1	Blank	03/06/25
BC50383-BS1	LCS	03/06/25

Batch ID: BC50387 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-01	SOFB02_030325	03/06/25
BC50387-BLK1	Blank	03/06/25
BC50387-BS1	LCS	03/06/25
BC50387-DUP1	Duplicate	03/06/25
BC50387-MS1	Matrix Spike	03/06/25

Batch ID: BC50423 **Preparation Method:** EPA 7473 soil **Prepared By:** DRS

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-04	SB05_0-2	03/06/25
25C0068-05	SB05_5-7	03/06/25
25C0068-06	SB15_0-2	03/06/25
25C0068-07	SB15_5-7	03/06/25
25C0068-08	SB14_0-2	03/06/25

25C0068-09	SB14_5-7	03/06/25
25C0068-10	SB13_0-2	03/06/25
25C0068-11	SB13_5-7	03/06/25
25C0068-12	SB12_0-2	03/06/25
25C0068-13	SB12_5-7	03/06/25
25C0068-14	SB11_0-2	03/06/25
25C0068-15	SB11_5-7	03/06/25
25C0068-16	SB20_0-2	03/06/25
25C0068-17	SB20_5-7	03/06/25
25C0068-18	SODUP03_030325	03/06/25
BC50423-BLK1	Blank	03/06/25
BC50423-DUP1	Duplicate	03/06/25
BC50423-MS1	Matrix Spike	03/06/25
BC50423-SRM1	Reference	03/06/25

Batch ID: BC50436 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** AJC

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-01	SOFB02_030325	03/06/25
BC50436-BLK1	Blank	03/06/25
BC50436-BS1	LCS	03/06/25

Batch ID: BC50447 **Preparation Method:** EPA 3050B **Prepared By:** KMQ

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-04	SB05_0-2	03/06/25
25C0068-05	SB05_5-7	03/06/25
25C0068-06	SB15_0-2	03/06/25
25C0068-07	SB15_5-7	03/06/25
25C0068-08	SB14_0-2	03/06/25
25C0068-09	SB14_5-7	03/06/25
25C0068-10	SB13_0-2	03/06/25
25C0068-11	SB13_5-7	03/06/25
25C0068-12	SB12_0-2	03/06/25
25C0068-13	SB12_5-7	03/06/25
25C0068-14	SB11_0-2	03/06/25
25C0068-15	SB11_5-7	03/06/25
25C0068-16	SB20_0-2	03/06/25
25C0068-17	SB20_5-7	03/06/25
25C0068-18	SODUP03_030325	03/06/25
BC50447-BLK1	Blank	03/06/25
BC50447-DUP1	Duplicate	03/06/25
BC50447-MS1	Matrix Spike	03/06/25
BC50447-PS1	Post Spike	03/06/25
BC50447-SRM1	Reference	03/06/25

Batch ID: BC50458 **Preparation Method:** Analysis Preparation Soil **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-04	SB05_0-2	03/06/25

25C0068-05	SB05_5-7	03/06/25
25C0068-06	SB15_0-2	03/06/25
25C0068-07	SB15_5-7	03/06/25
25C0068-08	SB14_0-2	03/06/25
25C0068-09	SB14_5-7	03/06/25
25C0068-10	SB13_0-2	03/06/25
25C0068-11	SB13_5-7	03/06/25
25C0068-12	SB12_0-2	03/06/25
BC50458-BLK1	Blank	03/06/25
BC50458-DUP1	Duplicate	03/06/25
BC50458-MS1	Matrix Spike	03/06/25
BC50458-MSD1	Matrix Spike Dup	03/06/25
BC50458-SRM1	Reference	03/06/25

Batch ID: BC50487 **Preparation Method:** EPA 3510C **Prepared By:** NERP

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-01	SOFB02_030325	03/07/25
BC50487-BLK1	Blank	03/07/25
BC50487-BS1	LCS	03/07/25

Batch ID: BC50488 **Preparation Method:** EPA 3510C **Prepared By:** NERP

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-01	SOFB02_030325	03/07/25
BC50488-BLK2	Blank	03/07/25
BC50488-BS2	LCS	03/07/25

Batch ID: BC50500 **Preparation Method:** Analysis Preparation Soil **Prepared By:** LJM

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-13	SB12_5-7	03/07/25
25C0068-14	SB11_0-2	03/07/25
25C0068-15	SB11_5-7	03/07/25
25C0068-16	SB20_0-2	03/07/25
25C0068-17	SB20_5-7	03/07/25
25C0068-18	SODUP03_030325	03/07/25
BC50500-BLK2	Blank	03/07/25
BC50500-SRM1	Reference	03/07/25

Batch ID: BC50507 **Preparation Method:** EPA SW846-3060 **Prepared By:** JAMT

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-04	SB05_0-2	03/07/25
25C0068-05	SB05_5-7	03/07/25
25C0068-06	SB15_0-2	03/07/25
25C0068-07	SB15_5-7	03/07/25
25C0068-08	SB14_0-2	03/07/25
25C0068-09	SB14_5-7	03/07/25

25C0068-10	SB13_0-2	03/07/25
25C0068-11	SB13_5-7	03/07/25
25C0068-12	SB12_0-2	03/07/25
25C0068-13	SB12_5-7	03/07/25
25C0068-14	SB11_0-2	03/07/25
25C0068-15	SB11_5-7	03/07/25
25C0068-16	SB20_0-2	03/07/25
25C0068-17	SB20_5-7	03/07/25
25C0068-18	SODUP03_030325	03/07/25
BC50507-BLK1	Blank	03/07/25
BC50507-DUP1	Duplicate	03/07/25
BC50507-MS1	Matrix Spike	03/07/25
BC50507-MSD1	Matrix Spike Dup	03/07/25
BC50507-SRM1	Reference	03/07/25

Batch ID: BC50523 **Preparation Method:** EPA 1633 Prep **Prepared By:** JLH

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-06	SB15_0-2	03/07/25
25C0068-17	SB20_5-7	03/07/25
BC50523-BLK1	Blank	03/07/25
BC50523-BS1	LCS	03/07/25
BC50523-BS2	LCS	03/07/25
BC50523-MS1	Matrix Spike	03/07/25
BC50523-MSD1	Matrix Spike Dup	03/07/25

Batch ID: BC50548 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** AJC

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-01	SOFB02_030325	03/07/25
BC50548-BLK1	Blank	03/07/25
BC50548-BS2	LCS	03/07/25

Batch ID: BC50557 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-01	SOFB02_030325	03/07/25

Batch ID: BC50565 **Preparation Method:** EPA 5035A **Prepared By:** AC

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-04	SB05_0-2	03/06/25
25C0068-05	SB05_5-7	03/06/25
25C0068-06	SB15_0-2	03/06/25
25C0068-07	SB15_5-7	03/06/25
25C0068-08	SB14_0-2	03/06/25
25C0068-09	SB14_5-7	03/06/25
25C0068-10	SB13_0-2	03/06/25
25C0068-11	SB13_5-7	03/06/25

25C0068-12	SB12_0-2	03/06/25
25C0068-13	SB12_5-7	03/06/25
25C0068-14	SB11_0-2	03/06/25
25C0068-15	SB11_5-7	03/06/25
25C0068-16	SB20_0-2	03/06/25
25C0068-17	SB20_5-7	03/06/25
25C0068-18	SODUP03_030325	03/06/25
BC50565-BLK1	Blank	03/06/25
BC50565-BS1	LCS	03/06/25
BC50565-BSD1	LCS Dup	03/06/25
BC50565-MS1	Matrix Spike	03/06/25
BC50565-MSD1	Matrix Spike Dup	03/06/25

Batch ID: BC50568 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-04	SB05_0-2	03/07/25
25C0068-05	SB05_5-7	03/07/25
25C0068-06	SB15_0-2	03/07/25
25C0068-07	SB15_5-7	03/07/25
25C0068-08	SB14_0-2	03/07/25
25C0068-09	SB14_5-7	03/07/25
25C0068-10	SB13_0-2	03/07/25
25C0068-11	SB13_5-7	03/07/25
25C0068-12	SB12_0-2	03/07/25
25C0068-13	SB12_5-7	03/07/25
25C0068-14	SB11_0-2	03/07/25
25C0068-15	SB11_5-7	03/07/25
25C0068-16	SB20_0-2	03/07/25
25C0068-17	SB20_5-7	03/07/25
25C0068-18	SODUP03_030325	03/07/25

Batch ID: BC50589 **Preparation Method:** EPA 3550C **Prepared By:** moa

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-06	SB15_0-2	03/08/25
25C0068-07	SB15_5-7	03/08/25
25C0068-08	SB14_0-2	03/08/25
25C0068-09	SB14_5-7	03/08/25
25C0068-10	SB13_0-2	03/08/25
25C0068-11	SB13_5-7	03/08/25
25C0068-12	SB12_0-2	03/08/25
25C0068-13	SB12_5-7	03/08/25
25C0068-14	SB11_0-2	03/08/25
25C0068-15	SB11_5-7	03/08/25
25C0068-16	SB20_0-2	03/08/25
25C0068-17	SB20_5-7	03/08/25
25C0068-18	SODUP03_030325	03/08/25
BC50589-BLK2	Blank	03/08/25
BC50589-BS2	LCS	03/08/25
BC50589-MS2	Matrix Spike	03/08/25

BC50589-MSD2	Matrix Spike Dup	03/08/25

Batch ID: BC50598 **Preparation Method:** EPA 3550C/8151A **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-07	SB15_5-7	03/09/25
25C0068-08	SB14_0-2	03/09/25
25C0068-09	SB14_5-7	03/09/25
25C0068-10	SB13_0-2	03/09/25
25C0068-11	SB13_5-7	03/09/25
25C0068-12	SB12_0-2	03/09/25
25C0068-13	SB12_5-7	03/09/25
25C0068-14	SB11_0-2	03/09/25
25C0068-15	SB11_5-7	03/09/25
25C0068-16	SB20_0-2	03/09/25
25C0068-17	SB20_5-7	03/09/25
25C0068-18	SODUP03_030325	03/09/25
BC50598-BLK1	Blank	03/09/25
BC50598-BS1	LCS	03/09/25

Batch ID: BC50614 **Preparation Method:** EPA 3550C **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-04	SB05_0-2	03/10/25
25C0068-04RE1	SB05_0-2	03/10/25
25C0068-05	SB05_5-7	03/10/25
25C0068-06	SB15_0-2	03/10/25
25C0068-07	SB15_5-7	03/10/25
25C0068-08	SB14_0-2	03/10/25
25C0068-09	SB14_5-7	03/10/25
25C0068-10	SB13_0-2	03/10/25
25C0068-11	SB13_5-7	03/10/25
25C0068-12	SB12_0-2	03/10/25
25C0068-13	SB12_5-7	03/10/25
25C0068-14	SB11_0-2	03/10/25
25C0068-15	SB11_5-7	03/10/25
25C0068-16	SB20_0-2	03/10/25
25C0068-17	SB20_5-7	03/10/25
25C0068-18	SODUP03_030325	03/10/25
BC50614-BLK1	Blank	03/10/25
BC50614-BS1	LCS	03/10/25
BC50614-MS1	Matrix Spike	03/10/25

Batch ID: BC50615 **Preparation Method:** EPA 3550C **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-04	SB05_0-2	03/09/25
25C0068-05	SB05_5-7	03/09/25
BC50615-BLK1	Blank	03/10/25
BC50615-BS2	LCS	03/10/25

Batch ID: BC50616 **Preparation Method:** EPA 3550C **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-04	SB05_0-2	03/09/25
25C0068-05	SB05_5-7	03/09/25
BC50616-BLK1	Blank	03/10/25
BC50616-BS1	LCS	03/10/25

Batch ID: BC50617 **Preparation Method:** EPA 1633 Prep **Prepared By:** JLH

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-02	SOFB02_PFAS_030325	03/09/25
BC50617-BLK1	Blank	03/09/25
BC50617-BS1	LCS	03/09/25
BC50617-BS2	LCS	03/09/25

Batch ID: BC50656 **Preparation Method:** EPA 3550C/8151A **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-04	SB05_0-2	03/10/25
25C0068-05	SB05_5-7	03/10/25
25C0068-06	SB15_0-2	03/10/25
BC50656-BLK1	Blank	03/10/25
BC50656-BS1	LCS	03/10/25
BC50656-MS1	Matrix Spike	03/10/25
BC50656-MSD1	Matrix Spike Dup	03/10/25

Batch ID: BC50710 **Preparation Method:** EPA 3550C **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-06	SB15_0-2	03/11/25
25C0068-07	SB15_5-7	03/11/25
25C0068-08	SB14_0-2	03/11/25
25C0068-09	SB14_5-7	03/11/25
25C0068-10	SB13_0-2	03/11/25
25C0068-11	SB13_5-7	03/11/25
25C0068-12	SB12_0-2	03/11/25
25C0068-13	SB12_5-7	03/11/25
25C0068-14	SB11_0-2	03/11/25
25C0068-15	SB11_5-7	03/11/25
25C0068-16	SB20_0-2	03/11/25
25C0068-17	SB20_5-7	03/11/25
25C0068-18	SODUP03_030325	03/11/25
BC50710-BLK1	Blank	03/11/25
BC50710-BS1	LCS	03/11/25
BC50710-MS1	Matrix Spike	03/11/25
BC50710-MSD1	Matrix Spike Dup	03/11/25

Batch ID: BC50763 **Preparation Method:** EPA 3550C **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-04	SB05_0-2	03/11/25
25C0068-05	SB05_5-7	03/11/25
25C0068-06	SB15_0-2	03/11/25
25C0068-07	SB15_5-7	03/11/25
25C0068-08	SB14_0-2	03/11/25
25C0068-09	SB14_5-7	03/11/25
25C0068-10	SB13_0-2	03/11/25
BC50763-BLK1	Blank	03/11/25
BC50763-BS1	LCS	03/11/25
BC50763-MS1	Matrix Spike	03/11/25
BC50763-MSD1	Matrix Spike Dup	03/11/25

Batch ID: BC50764 **Preparation Method:** EPA 3550C **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-11	SB13_5-7	03/11/25
25C0068-12	SB12_0-2	03/11/25
25C0068-13	SB12_5-7	03/11/25
25C0068-14	SB11_0-2	03/11/25
25C0068-15	SB11_5-7	03/11/25
25C0068-16	SB20_0-2	03/11/25
25C0068-17	SB20_5-7	03/11/25
25C0068-18	SODUP03_030325	03/11/25
BC50764-BLK1	Blank	03/11/25
BC50764-BS1	LCS	03/11/25

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
Blank (BC50272-BLK1) Blank									Prepared & Analyzed: 03/05/2025		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
Blank (BC50272-BLK1) Blank							Prepared & Analyzed: 03/05/2025				
n-Butylbenzene	ND	0.500	ug/L								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.40*		*"*	*10.0*		*94.0*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.36*		*"*	*10.0*		*93.6*	*79-122*				
LCS (BC50272-BS1) LCS							Prepared & Analyzed: 03/05/2025				
1,1,1,2-Tetrachloroethane	9.58		ug/L	10.0		95.8	82-126				
1,1,1-Trichloroethane	9.50		"	10.0		95.0	78-136				
1,1,2,2-Tetrachloroethane	9.19		"	10.0		91.9	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8		"	10.0		108	54-165				
1,1,2-Trichloroethane	9.09		"	10.0		90.9	82-123				
1,1-Dichloroethane	9.29		"	10.0		92.9	82-129				
1,1-Dichloroethylene	9.89		"	10.0		98.9	68-138				
1,2,3-Trichlorobenzene	10.8		"	10.0		108	76-136				
1,2,3-Trichloropropane	8.77		"	10.0		87.7	77-128				
1,2,4-Trichlorobenzene	10.6		"	10.0		106	76-137				
1,2,4-Trimethylbenzene	9.62		"	10.0		96.2	82-132				
1,2-Dibromo-3-chloropropane	8.29		"	10.0		82.9	45-147				
1,2-Dibromoethane	9.24		"	10.0		92.4	83-124				
1,2-Dichlorobenzene	9.07		"	10.0		90.7	79-123				
1,2-Dichloroethane	9.54		"	10.0		95.4	73-132				
1,2-Dichloropropane	9.07		"	10.0		90.7	78-126				
1,3,5-Trimethylbenzene	9.27		"	10.0		92.7	80-131				
1,3-Dichlorobenzene	9.17		"	10.0		91.7	86-122				
1,4-Dichlorobenzene	9.14		"	10.0		91.4	85-124				
1,4-Dioxane	154		"	210		73.2	10-349				
2-Butanone	9.31		"	10.0		93.1	49-152				
2-Hexanone	9.14		"	10.0		91.4	51-146				
4-Methyl-2-pentanone	9.59		"	10.0		95.9	57-145				
Acetone	7.05		"	10.0		70.5	14-150				
Acrolein	14.0		"	10.0		140	10-153				
Acrylonitrile	10.7		"	10.0		107	51-150				
Benzene	10.0		"	10.0		100	85-126				
Bromochloromethane	9.62		"	10.0		96.2	77-128				
Bromodichloromethane	9.26		"	10.0		92.6	79-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
LCS (BC50272-BS1) LCS							Prepared & Analyzed: 03/05/2025				
Bromoform	10.2		ug/L	10.0		102	78-133				
Bromomethane	9.85		"	10.0		98.5	43-168				
Carbon disulfide	10.8		"	10.0		108	68-146				
Carbon tetrachloride	9.98		"	10.0		99.8	77-141				
Chlorobenzene	9.23		"	10.0		92.3	88-120				
Chloroethane	10.2		"	10.0		102	65-136				
Chloroform	9.55		"	10.0		95.5	82-128				
Chloromethane	9.93		"	10.0		99.3	43-155				
cis-1,2-Dichloroethylene	10.2		"	10.0		102	83-129				
cis-1,3-Dichloropropylene	9.26		"	10.0		92.6	80-131				
Cyclohexane	10.3		"	10.0		103	63-149				
Dibromochloromethane	9.52		"	10.0		95.2	80-130				
Dibromomethane	8.87		"	10.0		88.7	72-134				
Dichlorodifluoromethane	11.5		"	10.0		115	44-144				
Ethyl Benzene	9.37		"	10.0		93.7	80-131				
Hexachlorobutadiene	10.5		"	10.0		105	67-146				
Isopropylbenzene	8.88		"	10.0		88.8	76-140				
Methyl acetate	13.1		"	10.0		131	51-139				
Methyl tert-butyl ether (MTBE)	9.67		"	10.0		96.7	76-135				
Methylcyclohexane	9.45		"	10.0		94.5	72-143				
Methylene chloride	9.10		"	10.0		91.0	55-137				
n-Butylbenzene	9.79		"	10.0		97.9	79-132				
n-Propylbenzene	8.96		"	10.0		89.6	78-133				
o-Xylene	9.33		"	10.0		93.3	78-130				
p- & m- Xylenes	18.5		"	20.0		92.4	77-133				
p-Isopropyltoluene	9.72		"	10.0		97.2	81-136				
sec-Butylbenzene	9.17		"	10.0		91.7	79-137				
Styrene	9.82		"	10.0		98.2	67-132				
tert-Butyl alcohol (TBA)	59.2		"	50.0		118	25-162				
tert-Butylbenzene	9.10		"	10.0		91.0	77-138				
Tetrachloroethylene	6.02		"	10.0		60.2	82-131	Low Bias			
Toluene	9.14		"	10.0		91.4	80-127				
trans-1,2-Dichloroethylene	9.62		"	10.0		96.2	80-132				
trans-1,3-Dichloropropylene	9.55		"	10.0		95.5	78-131				
Trichloroethylene	8.91		"	10.0		89.1	82-128				
Trichlorofluoromethane	10.2		"	10.0		102	67-139				
Vinyl Chloride	10.2		"	10.0		102	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.59*		*"*	*10.0*		*95.9*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.56*		*"*	*10.0*		*95.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.58*		*"*	*10.0*		*95.8*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
LCS Dup (BC50272-BSD1) LCS Dup							Prepared & Analyzed: 03/05/2025				
1,1,1,2-Tetrachloroethane	10.0		ug/L	10.0		100	82-126		4.29	30	
1,1,1-Trichloroethane	9.69		"	10.0		96.9	78-136		1.98	30	
1,1,2,2-Tetrachloroethane	10.1		"	10.0		101	76-129		9.04	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0		"	10.0		110	54-165		1.93	30	
1,1,2-Trichloroethane	10.0		"	10.0		100	82-123		9.83	30	
1,1-Dichloroethane	9.51		"	10.0		95.1	82-129		2.34	30	
1,1-Dichloroethylene	10.1		"	10.0		101	68-138		2.00	30	
1,2,3-Trichlorobenzene	13.4		"	10.0		134	76-136		21.4	30	
1,2,3-Trichloropropane	9.68		"	10.0		96.8	77-128		9.86	30	
1,2,4-Trichlorobenzene	11.6		"	10.0		116	76-137		9.57	30	
1,2,4-Trimethylbenzene	9.25		"	10.0		92.5	82-132		3.92	30	
1,2-Dibromo-3-chloropropane	9.57		"	10.0		95.7	45-147		14.3	30	
1,2-Dibromoethane	10.3		"	10.0		103	83-124		11.0	30	
1,2-Dichlorobenzene	9.39		"	10.0		93.9	79-123		3.47	30	
1,2-Dichloroethane	10.2		"	10.0		102	73-132		6.98	30	
1,2-Dichloropropane	9.31		"	10.0		93.1	78-126		2.61	30	
1,3,5-Trimethylbenzene	8.92		"	10.0		89.2	80-131		3.85	30	
1,3-Dichlorobenzene	9.23		"	10.0		92.3	86-122		0.652	30	
1,4-Dichlorobenzene	9.21		"	10.0		92.1	85-124		0.763	30	
1,4-Dioxane	181		"	210		86.2	10-349		16.3	30	
2-Butanone	10.6		"	10.0		106	49-152		12.5	30	
2-Hexanone	11.1		"	10.0		111	51-146		19.4	30	
4-Methyl-2-pentanone	11.3		"	10.0		113	57-145		16.3	30	
Acetone	8.50		"	10.0		85.0	14-150		18.6	30	
Acrolein	15.8		"	10.0		158	10-153	High Bias	12.0	30	
Acrylonitrile	12.3		"	10.0		123	51-150		14.6	30	
Benzene	10.2		"	10.0		102	85-126		1.49	30	
Bromochloromethane	10.3		"	10.0		103	77-128		6.83	30	
Bromodichloromethane	9.63		"	10.0		96.3	79-128		3.92	30	
Bromoform	11.7		"	10.0		117	78-133		13.3	30	
Bromomethane	9.41		"	10.0		94.1	43-168		4.57	30	
Carbon disulfide	10.9		"	10.0		109	68-146		0.643	30	
Carbon tetrachloride	10.2		"	10.0		102	77-141		1.89	30	
Chlorobenzene	9.39		"	10.0		93.9	88-120		1.72	30	
Chloroethane	10.2		"	10.0		102	65-136		0.197	30	
Chloroform	9.87		"	10.0		98.7	82-128		3.30	30	
Chloromethane	9.89		"	10.0		98.9	43-155		0.404	30	
cis-1,2-Dichloroethylene	10.0		"	10.0		100	83-129		1.68	30	
cis-1,3-Dichloropropylene	9.61		"	10.0		96.1	80-131		3.71	30	
Cyclohexane	10.6		"	10.0		106	63-149		2.50	30	
Dibromochloromethane	10.5		"	10.0		105	80-130		9.41	30	
Dibromomethane	9.60		"	10.0		96.0	72-134		7.90	30	
Dichlorodifluoromethane	11.8		"	10.0		118	44-144		2.06	30	
Ethyl Benzene	9.40		"	10.0		94.0	80-131		0.320	30	
Hexachlorobutadiene	10.4		"	10.0		104	67-146		0.383	30	
Isopropylbenzene	8.53		"	10.0		85.3	76-140		4.02	30	
Methyl acetate	15.0		"	10.0		150	51-139	High Bias	13.6	30	
Methyl tert-butyl ether (MTBE)	11.0		"	10.0		110	76-135		13.2	30	
Methylcyclohexane	9.45		"	10.0		94.5	72-143		0.00	30	
Methylene chloride	9.48		"	10.0		94.8	55-137		4.09	30	
n-Butylbenzene	9.55		"	10.0		95.5	79-132		2.48	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
LCS Dup (BC50272-BSD1) LCS Dup								Prepared & Analyzed: 03/05/2025			
n-Propylbenzene	8.69		ug/L	10.0		86.9	78-133		3.06	30	
o-Xylene	9.42		"	10.0		94.2	78-130		0.960	30	
p- & m- Xylenes	18.6		"	20.0		93.0	77-133		0.647	30	
p-Isopropyltoluene	9.37		"	10.0		93.7	81-136		3.67	30	
sec-Butylbenzene	8.82		"	10.0		88.2	79-137		3.89	30	
Styrene	10.2		"	10.0		102	67-132		3.30	30	
tert-Butyl alcohol (TBA)	73.8		"	50.0		148	25-162		22.1	30	
tert-Butylbenzene	8.79		"	10.0		87.9	77-138		3.47	30	
Tetrachloroethylene	5.99		"	10.0		59.9	82-131	Low Bias	0.500	30	
Toluene	9.11		"	10.0		91.1	80-127		0.329	30	
trans-1,2-Dichloroethylene	9.72		"	10.0		97.2	80-132		1.03	30	
trans-1,3-Dichloropropylene	10.3		"	10.0		103	78-131		7.85	30	
Trichloroethylene	8.89		"	10.0		88.9	82-128		0.225	30	
Trichlorofluoromethane	10.3		"	10.0		103	67-139		1.76	30	
Vinyl Chloride	10.4		"	10.0		104	58-145		1.55	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.38*		*"*	*10.0*		*93.8*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.39*		*"*	*10.0*		*93.9*	*79-122*				
Batch BC50565 - EPA 5035A											
Blank (BC50565-BLK1) Blank								Prepared & Analyzed: 03/06/2025			
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50565 - EPA 5035A											
Blank (BC50565-BLK1) Blank								Prepared & Analyzed: 03/06/2025			
Bromoform	ND	0.0050	mg/kg wet								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*55.2*		*ug/L*	*50.0*		*110*	*77-125*				
Surrogate: SURR: Toluene-d8	*52.5*		*"*	*50.0*		*105*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*53.5*		*"*	*50.0*		*107*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50565 - EPA 5035A											
LCS (BC50565-BS1) LCS							Prepared & Analyzed: 03/06/2025				
1,1,1,2-Tetrachloroethane	47.8		ug/L	50.0		95.7	75-129				
1,1,1-Trichloroethane	45.5		"	50.0		91.0	71-137				
1,1,2,2-Tetrachloroethane	53.9		"	50.0		108	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	48.2		"	50.0		96.3	58-146				
1,1,2-Trichloroethane	50.0		"	50.0		100	83-123				
1,1-Dichloroethane	50.2		"	50.0		100	75-130				
1,1-Dichloroethylene	53.5		"	50.0		107	64-137				
1,2,3-Trichlorobenzene	47.2		"	50.0		94.4	81-140				
1,2,3-Trichloropropane	53.0		"	50.0		106	81-126				
1,2,4-Trichlorobenzene	46.8		"	50.0		93.7	80-141				
1,2,4-Trimethylbenzene	51.4		"	50.0		103	84-125				
1,2-Dibromo-3-chloropropane	53.5		"	50.0		107	74-142				
1,2-Dibromoethane	49.0		"	50.0		98.0	86-123				
1,2-Dichlorobenzene	48.6		"	50.0		97.3	85-122				
1,2-Dichloroethane	50.8		"	50.0		102	71-133				
1,2-Dichloropropane	53.9		"	50.0		108	81-122				
1,3,5-Trimethylbenzene	51.8		"	50.0		104	82-126				
1,3-Dichlorobenzene	48.1		"	50.0		96.2	84-124				
1,4-Dichlorobenzene	47.8		"	50.0		95.7	84-124				
1,4-Dioxane	946		"	1050		90.1	10-228				
2-Butanone	38.6		"	50.0		77.2	58-147				
2-Hexanone	40.8		"	50.0		81.5	70-139				
4-Methyl-2-pentanone	34.7		"	50.0		69.5	72-132	Low Bias			
Acetone	25.6		"	50.0		51.2	36-155				
Acrolein	42.3		"	50.0		84.7	10-238				
Acrylonitrile	50.2		"	50.0		100	66-141				
Benzene	47.7		"	50.0		95.4	77-127				
Bromochloromethane	46.0		"	50.0		91.9	74-129				
Bromodichloromethane	54.2		"	50.0		108	81-124				
Bromoform	51.5		"	50.0		103	80-136				
Bromomethane	63.9		"	50.0		128	32-177				
Carbon disulfide	49.6		"	50.0		99.2	10-136				
Carbon tetrachloride	47.2		"	50.0		94.4	66-143				
Chlorobenzene	47.7		"	50.0		95.4	86-120				
Chloroethane	51.7		"	50.0		103	51-142				
Chloroform	49.3		"	50.0		98.6	76-131				
Chloromethane	44.4		"	50.0		88.9	49-132				
cis-1,2-Dichloroethylene	47.8		"	50.0		95.5	74-132				
cis-1,3-Dichloropropylene	45.2		"	50.0		90.3	81-129				
Cyclohexane	50.4		"	50.0		101	70-130				
Dibromochloromethane	53.5		"	50.0		107	10-200				
Dibromomethane	50.0		"	50.0		99.9	83-124				
Dichlorodifluoromethane	55.8		"	50.0		112	28-158				
Ethyl Benzene	51.7		"	50.0		103	84-125				
Hexachlorobutadiene	45.0		"	50.0		90.0	83-133				
Isopropylbenzene	51.3		"	50.0		103	81-127				
Methyl acetate	30.3		"	50.0		60.7	41-143				
Methyl tert-butyl ether (MTBE)	38.6		"	50.0		77.2	74-131				
Methylcyclohexane	47.8		"	50.0		95.5	70-130				
Methylene chloride	46.9		"	50.0		93.8	57-141				
n-Butylbenzene	54.0		"	50.0		108	80-130				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50565 - EPA 5035A											
LCS (BC50565-BS1) LCS							Prepared & Analyzed: 03/06/2025				
n-Propylbenzene	53.0		ug/L	50.0		106	74-136				
o-Xylene	50.3		"	50.0		101	83-123				
p- & m- Xylenes	102		"	100		102	82-128				
p-Isopropyltoluene	53.2		"	50.0		106	85-125				
sec-Butylbenzene	51.6		"	50.0		103	83-125				
Styrene	50.4		"	50.0		101	86-126				
tert-Butyl alcohol (TBA)	138		"	250		55.2	70-130	Low Bias			
tert-Butylbenzene	44.1		"	50.0		88.3	80-127				
Tetrachloroethylene	40.7		"	50.0		81.4	80-129				
Toluene	50.0		"	50.0		99.9	85-121				
trans-1,2-Dichloroethylene	51.0		"	50.0		102	72-132				
trans-1,3-Dichloropropylene	42.4		"	50.0		84.7	78-132				
Trichloroethylene	50.6		"	50.0		101	84-123				
Trichlorofluoromethane	49.9		"	50.0		99.8	62-140				
Vinyl Chloride	52.5		"	50.0		105	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*53.7*		*"*	*50.0*		*107*	*77-125*				
Surrogate: SURR: Toluene-d8	*52.5*		*"*	*50.0*		*105*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*52.1*		*"*	*50.0*		*104*	*76-130*				
LCS Dup (BC50565-BSD1) LCS Dup							Prepared & Analyzed: 03/06/2025				
1,1,1,2-Tetrachloroethane	49.4		ug/L	50.0		98.9	75-129		3.31	30	
1,1,1-Trichloroethane	45.1		"	50.0		90.2	71-137		0.839	30	
1,1,2,2-Tetrachloroethane	54.4		"	50.0		109	79-129		1.02	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	48.4		"	50.0		96.8	58-146		0.456	30	
1,1,2-Trichloroethane	51.2		"	50.0		102	83-123		2.27	30	
1,1-Dichloroethane	50.6		"	50.0		101	75-130		0.913	30	
1,1-Dichloroethylene	54.6		"	50.0		109	64-137		2.16	30	
1,2,3-Trichlorobenzene	48.5		"	50.0		97.1	81-140		2.74	30	
1,2,3-Trichloropropane	52.9		"	50.0		106	81-126		0.246	30	
1,2,4-Trichlorobenzene	48.5		"	50.0		96.9	80-141		3.40	30	
1,2,4-Trimethylbenzene	52.5		"	50.0		105	84-125		2.06	30	
1,2-Dibromo-3-chloropropane	54.0		"	50.0		108	74-142		0.949	30	
1,2-Dibromoethane	49.8		"	50.0		99.6	86-123		1.58	30	
1,2-Dichlorobenzene	49.8		"	50.0		99.6	85-122		2.40	30	
1,2-Dichloroethane	52.2		"	50.0		104	71-133		2.79	30	
1,2-Dichloropropane	55.2		"	50.0		110	81-122		2.44	30	
1,3,5-Trimethylbenzene	53.0		"	50.0		106	82-126		2.40	30	
1,3-Dichlorobenzene	48.3		"	50.0		96.7	84-124		0.498	30	
1,4-Dichlorobenzene	49.0		"	50.0		98.0	84-124		2.35	30	
1,4-Dioxane	886		"	1050		84.4	10-228		6.52	30	
2-Butanone	41.5		"	50.0		83.0	58-147		7.22	30	
2-Hexanone	42.0		"	50.0		84.1	70-139		3.09	30	
4-Methyl-2-pentanone	35.5		"	50.0		71.0	72-132	Low Bias	2.14	30	
Acetone	25.1		"	50.0		50.1	36-155		2.09	30	
Acrolein	44.2		"	50.0		88.3	10-238		4.21	30	
Acrylonitrile	50.0		"	50.0		100	66-141		0.399	30	
Benzene	47.9		"	50.0		95.8	77-127		0.356	30	
Bromochloromethane	48.4		"	50.0		96.8	74-129		5.17	30	
Bromodichloromethane	57.4		"	50.0		115	81-124		5.77	30	
Bromoform	51.1		"	50.0		102	80-136		0.799	30	
Bromomethane	62.8		"	50.0		126	32-177		1.69	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50565 - EPA 5035A											
LCS Dup (BC50565-BSD1) LCS Dup							Prepared & Analyzed: 03/06/2025				
Carbon disulfide	50.7		ug/L	50.0		101	10-136		2.27	30	
Carbon tetrachloride	46.8		"	50.0		93.5	66-143		0.979	30	
Chlorobenzene	49.4		"	50.0		98.9	86-120		3.60	30	
Chloroethane	53.3		"	50.0		107	51-142		3.12	30	
Chloroform	49.7		"	50.0		99.4	76-131		0.849	30	
Chloromethane	42.9		"	50.0		85.8	49-132		3.50	30	
cis-1,2-Dichloroethylene	49.4		"	50.0		98.7	74-132		3.34	30	
cis-1,3-Dichloropropylene	46.5		"	50.0		93.1	81-129		2.97	30	
Cyclohexane	52.3		"	50.0		105	70-130		3.72	30	
Dibromochloromethane	54.8		"	50.0		110	10-200		2.48	30	
Dibromomethane	51.5		"	50.0		103	83-124		3.04	30	
Dichlorodifluoromethane	55.5		"	50.0		111	28-158		0.485	30	
Ethyl Benzene	53.5		"	50.0		107	84-125		3.33	30	
Hexachlorobutadiene	46.6		"	50.0		93.3	83-133		3.65	30	
Isopropylbenzene	52.3		"	50.0		105	81-127		1.89	30	
Methyl acetate	32.8		"	50.0		65.6	41-143		7.79	30	
Methyl tert-butyl ether (MTBE)	39.4		"	50.0		78.9	74-131		2.10	30	
Methylcyclohexane	49.7		"	50.0		99.3	70-130		3.94	30	
Methylene chloride	48.2		"	50.0		96.4	57-141		2.78	30	
n-Butylbenzene	55.1		"	50.0		110	80-130		2.09	30	
n-Propylbenzene	54.3		"	50.0		109	74-136		2.46	30	
o-Xylene	51.9		"	50.0		104	83-123		3.11	30	
p- & m- Xylenes	105		"	100		105	82-128		2.84	30	
p-Isopropyltoluene	54.9		"	50.0		110	85-125		2.98	30	
sec-Butylbenzene	53.0		"	50.0		106	83-125		2.70	30	
Styrene	51.5		"	50.0		103	86-126		2.18	30	
tert-Butyl alcohol (TBA)	143		"	250		57.2	70-130	Low Bias	3.59	30	
tert-Butylbenzene	45.2		"	50.0		90.3	80-127		2.28	30	
Tetrachloroethylene	41.1		"	50.0		82.3	80-129		1.03	30	
Toluene	51.0		"	50.0		102	85-121		2.08	30	
trans-1,2-Dichloroethylene	50.5		"	50.0		101	72-132		0.808	30	
trans-1,3-Dichloropropylene	43.6		"	50.0		87.3	78-132		3.02	30	
Trichloroethylene	52.7		"	50.0		105	84-123		3.99	30	
Trichlorofluoromethane	51.0		"	50.0		102	62-140		2.14	30	
Vinyl Chloride	54.3		"	50.0		109	52-130		3.37	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*53.1*		*"*	*50.0*		*106*	*77-125*				
Surrogate: SURR: Toluene-d8	*53.2*		*"*	*50.0*		*106*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*51.6*		*"*	*50.0*		*103*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50565 - EPA 5035A											
Matrix Spike (BC50565-MS1) Matrix Spike	*Source sample: 25C0068-06 (SB15_0-2)							Prepared & Analyzed: 03/06/2025			
1,1,1,2-Tetrachloroethane	51.5		ug/L	50.0	0.00	103	15-161				
1,1,1-Trichloroethane	45.1		"	50.0	0.00	90.2	42-145				
1,1,2,2-Tetrachloroethane	64.0		"	50.0	0.00	128	16-167				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	41.6		"	50.0	0.00	83.3	11-160				
1,1,2-Trichloroethane	60.9		"	50.0	0.00	122	44-145				
1,1-Dichloroethane	51.7		"	50.0	0.00	103	46-142				
1,1-Dichloroethylene	45.2		"	50.0	0.00	90.5	30-153				
1,2,3-Trichlorobenzene	25.2		"	50.0	0.00	50.5	10-157				
1,2,3-Trichloropropane	65.9		"	50.0	0.00	132	38-155				
1,2,4-Trichlorobenzene	25.5		"	50.0	0.00	51.0	10-151				
1,2,4-Trimethylbenzene	42.5		"	50.0	0.00	85.0	10-170				
1,2-Dibromo-3-chloropropane	62.4		"	50.0	0.00	125	36-138				
1,2-Dibromoethane	58.1		"	50.0	0.00	116	40-142				
1,2-Dichlorobenzene	38.3		"	50.0	0.00	76.7	10-147				
1,2-Dichloroethane	63.0		"	50.0	0.00	126	48-133				
1,2-Dichloropropane	57.0		"	50.0	0.00	114	47-141				
1,3,5-Trimethylbenzene	43.7		"	50.0	0.00	87.3	10-150				
1,3-Dichlorobenzene	35.5		"	50.0	0.00	71.0	10-144				
1,4-Dichlorobenzene	36.0		"	50.0	0.00	72.0	10-160				
1,4-Dioxane	1810		"	1050	0.00	172	10-191				
2-Butanone	50.7		"	50.0	0.00	101	10-189				
2-Hexanone	45.1		"	50.0	0.00	90.2	10-181				
4-Methyl-2-pentanone	45.2		"	50.0	0.00	90.3	10-166				
Acetone	39.8		"	50.0	0.00	79.6	10-196				
Acrolein	0.00		"	50.0	0.00		10-192	Low Bias			
Acrylonitrile	47.6		"	50.0	0.00	95.1	13-161				
Benzene	47.8		"	50.0	0.00	95.6	43-139				
Bromochloromethane	55.6		"	50.0	0.00	111	38-145				
Bromodichloromethane	62.0		"	50.0	0.00	124	38-147				
Bromoform	60.7		"	50.0	0.00	121	29-156				
Bromomethane	45.0		"	50.0	0.00	90.1	10-166				
Carbon disulfide	34.8		"	50.0	0.00	69.5	10-131				
Carbon tetrachloride	46.1		"	50.0	0.00	92.2	35-145				
Chlorobenzene	45.5		"	50.0	0.00	91.0	21-154				
Chloroethane	41.0		"	50.0	0.00	82.0	15-160				
Chloroform	54.2		"	50.0	0.00	108	47-142				
Chloromethane	22.6		"	50.0	0.00	45.3	10-159				
cis-1,2-Dichloroethylene	49.5		"	50.0	0.00	99.0	42-144				
cis-1,3-Dichloropropylene	45.5		"	50.0	0.00	91.0	18-159				
Cyclohexane	46.3		"	50.0	0.00	92.6	70-130				
Dibromochloromethane	62.9		"	50.0	0.00	126	10-179				
Dibromomethane	60.9		"	50.0	0.00	122	47-143				
Dichlorodifluoromethane	17.0		"	50.0	0.00	34.0	10-145				
Ethyl Benzene	49.7		"	50.0	0.00	99.3	11-158				
Hexachlorobutadiene	32.7		"	50.0	0.00	65.4	10-158				
Isopropylbenzene	46.7		"	50.0	0.00	93.5	10-162				
Methyl acetate	33.4		"	50.0	0.00	66.7	10-149				
Methyl tert-butyl ether (MTBE)	48.2		"	50.0	0.00	96.3	42-152				
Methylcyclohexane	43.7		"	50.0	0.00	87.3	70-130				
Methylene chloride	50.6		"	50.0	0.00	101	28-151				
n-Butylbenzene	40.6		"	50.0	0.00	81.2	10-162				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50565 - EPA 5035A											
Matrix Spike (BC50565-MS1) Matrix Spike	*Source sample: 25C0068-06 (SB15_0-2)							Prepared & Analyzed: 03/06/2025			
n-Propylbenzene	44.8		ug/L	50.0	0.00	89.5	10-155				
o-Xylene	49.2		"	50.0	0.00	98.4	10-158				
p- & m- Xylenes	96.7		"	100	0.00	96.7	10-156				
p-Isopropyltoluene	43.8		"	50.0	0.00	87.5	10-147				
sec-Butylbenzene	43.5		"	50.0	0.00	87.0	10-157				
Styrene	43.8		"	50.0	0.00	87.6	13-171				
tert-Butyl alcohol (TBA)	203		"	250	0.00	81.3	34-179				
tert-Butylbenzene	39.6		"	50.0	0.00	79.2	10-160				
Tetrachloroethylene	36.8		"	50.0	0.00	73.5	30-167				
Toluene	49.5		"	50.0	0.00	99.0	21-160				
trans-1,2-Dichloroethylene	45.4		"	50.0	0.00	90.8	29-153				
trans-1,3-Dichloropropylene	43.1		"	50.0	0.00	86.2	18-155				
Trichloroethylene	49.1		"	50.0	0.00	98.2	24-169				
Trichlorofluoromethane	41.5		"	50.0	0.00	83.0	35-142				
Vinyl Chloride	31.0		"	50.0	0.00	62.0	12-160				
Surrogate: SURR: 1,2-Dichloroethane-d4	*59.6*		*"*	*50.0*		*119*	*77-125*				
Surrogate: SURR: Toluene-d8	*52.5*		*"*	*50.0*		*105*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*51.1*		*"*	*50.0*		*102*	*76-130*				
Matrix Spike Dup (BC50565-! Matrix Spike Dup	*Source sample: 25C0068-06 (SB15_0-2)							Prepared: 03/06/2025 Analyzed: 03/07/2025			
1,1,1,2-Tetrachloroethane	49.2		ug/L	50.0	0.00	98.3	15-161		4.65	33	
1,1,1-Trichloroethane	56.2		"	50.0	0.00	112	42-145		22.0	30	
1,1,2,2-Tetrachloroethane	48.9		"	50.0	0.00	97.8	16-167		26.8	56	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	54.9		"	50.0	0.00	110	11-160		27.5	31	
1,1,2-Trichloroethane	50.2		"	50.0	0.00	100	44-145		19.2	40	
1,1-Dichloroethane	57.2		"	50.0	0.00	114	46-142		10.1	36	
1,1-Dichloroethylene	57.4		"	50.0	0.00	115	30-153		23.7	31	
1,2,3-Trichlorobenzene	23.3		"	50.0	0.00	46.6	10-157		7.95	47	
1,2,3-Trichloropropane	49.8		"	50.0	0.00	99.6	38-155		27.8	48	
1,2,4-Trichlorobenzene	24.0		"	50.0	0.00	47.9	10-151		6.23	52	
1,2,4-Trimethylbenzene	46.0		"	50.0	0.00	92.0	10-170		7.91	242	
1,2-Dibromo-3-chloropropane	43.9		"	50.0	0.00	87.8	36-138		34.7	54	
1,2-Dibromoethane	46.0		"	50.0	0.00	91.9	40-142		23.4	39	
1,2-Dichlorobenzene	35.2		"	50.0	0.00	70.4	10-147		8.49	52	
1,2-Dichloroethane	54.6		"	50.0	0.00	109	48-133		14.2	32	
1,2-Dichloropropane	58.8		"	50.0	0.00	118	47-141		3.14	37	
1,3,5-Trimethylbenzene	49.5		"	50.0	0.00	99.0	10-150		12.5	62	
1,3-Dichlorobenzene	35.0		"	50.0	0.00	70.0	10-144		1.47	51	
1,4-Dichlorobenzene	34.0		"	50.0	0.00	67.9	10-160		5.83	52	
1,4-Dioxane	1090		"	1050	0.00	104	10-191		49.6	196	
2-Butanone	34.2		"	50.0	0.00	68.5	10-189		38.8	67	
2-Hexanone	26.9		"	50.0	0.00	53.9	10-181		50.4	60	
4-Methyl-2-pentanone	31.1		"	50.0	0.00	62.2	10-166		36.9	47	
Acetone	25.3		"	50.0	0.00	50.6	10-196		44.5	150	
Acrolein	0.00		"	50.0	0.00		10-192	Low Bias		128	
Acrylonitrile	30.2		"	50.0	0.00	60.3	13-161		44.8	48	
Benzene	52.1		"	50.0	0.00	104	43-139		8.62	64	
Bromochloromethane	48.5		"	50.0	0.00	97.1	38-145		13.6	30	
Bromodichloromethane	59.2		"	50.0	0.00	118	38-147		4.69	37	
Bromoform	46.0		"	50.0	0.00	92.1	29-156		27.5	51	
Bromomethane	50.3		"	50.0	0.00	101	10-166		10.9	42	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50565 - EPA 5035A											
Matrix Spike Dup (BC50565-! Matrix Spike Dup				*Source sample: 25C0068-06 (SB15_0-2)					Prepared: 03/06/2025 Analyzed: 03/07/2025		
Carbon disulfide	45.8		ug/L	50.0	0.00	91.6	10-131		27.3	36	
Carbon tetrachloride	59.1		"	50.0	0.00	118	35-145		24.8	31	
Chlorobenzene	45.1		"	50.0	0.00	90.2	21-154		0.839	32	
Chloroethane	52.1		"	50.0	0.00	104	15-160		23.7	40	
Chloroform	56.0		"	50.0	0.00	112	47-142		3.25	29	
Chloromethane	29.0		"	50.0	0.00	58.0	10-159		24.6	31	
cis-1,2-Dichloroethylene	52.9		"	50.0	0.00	106	42-144		6.60	30	
cis-1,3-Dichloropropylene	41.4		"	50.0	0.00	82.8	18-159		9.37	39	
Cyclohexane	59.4		"	50.0	0.00	119	70-130		24.8	30	
Dibromochloromethane	52.6		"	50.0	0.00	105	10-179		17.8	41	
Dibromomethane	50.7		"	50.0	0.00	101	47-143		18.3	41	
Dichlorodifluoromethane	24.0		"	50.0	0.00	48.0	10-145		34.2	34	Non-dir.
Ethyl Benzene	54.5		"	50.0	0.00	109	11-158		9.25	42	
Hexachlorobutadiene	37.7		"	50.0	0.00	75.4	10-158		14.2	45	
Isopropylbenzene	54.3		"	50.0	0.00	109	10-162		15.0	57	
Methyl acetate	22.5		"	50.0	0.00	45.0	10-149		38.9	64	
Methyl tert-butyl ether (MTBE)	41.4		"	50.0	0.00	82.9	42-152		15.0	47	
Methylcyclohexane	57.1		"	50.0	0.00	114	70-130		26.6	30	
Methylene chloride	50.5		"	50.0	0.00	101	28-151		0.0594	49	
n-Butylbenzene	47.6		"	50.0	0.00	95.2	10-162		15.8	96	
n-Propylbenzene	52.2		"	50.0	0.00	104	10-155		15.3	56	
o-Xylene	50.3		"	50.0	0.00	101	10-158		2.23	51	
p- & m- Xylenes	103		"	100	0.00	103	10-156		6.44	47	
p-Isopropyltoluene	51.1		"	50.0	0.00	102	10-147		15.5	60	
sec-Butylbenzene	53.2		"	50.0	0.00	106	10-157		20.0	56	
Styrene	43.2		"	50.0	0.00	86.3	13-171		1.50	39	
tert-Butyl alcohol (TBA)	144		"	250	0.00	57.5	34-179		34.2	35	
tert-Butylbenzene	47.3		"	50.0	0.00	94.7	10-160		17.8	79	
Tetrachloroethylene	43.4		"	50.0	0.00	86.8	30-167		16.5	33	
Toluene	53.4		"	50.0	0.00	107	21-160		7.62	50	
trans-1,2-Dichloroethylene	55.0		"	50.0	0.00	110	29-153		19.1	30	
trans-1,3-Dichloropropylene	36.8		"	50.0	0.00	73.6	18-155		15.8	30	
Trichloroethylene	56.2		"	50.0	0.00	112	24-169		13.5	30	
Trichlorofluoromethane	54.0		"	50.0	0.00	108	35-142		26.3	30	
Vinyl Chloride	45.0		"	50.0	0.00	90.0	12-160		36.9	35	Non-dir.
Surrogate: SURR: 1,2-Dichloroethane-d4	*55.0*		*"*	*50.0*		*110*	*77-125*				
Surrogate: SURR: Toluene-d8	*52.6*		*"*	*50.0*		*105*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*53.1*		*"*	*50.0*		*106*	*76-130*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50487 - EPA 3510C											
Blank (BC50487-BLK1) Blank									Prepared & Analyzed: 03/07/2025		
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Diphenylamine	ND	5.00	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Isophorone	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Phenol	ND	5.00	"								
Pyridine	ND	5.00	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50487 - EPA 3510C											
Blank (BC50487-BLK1) Blank							Prepared & Analyzed: 03/07/2025				
Surrogate: SURR: 2-Fluorophenol	*15.6*		*ug/L*	*50.0*		*31.2*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*9.48*		*"*	*50.0*		*19.0*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*13.5*		*"*	*25.0*		*53.8*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*13.2*		*"*	*25.0*		*52.8*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*26.3*		*"*	*50.0*		*52.5*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*19.1*		*"*	*25.0*		*76.5*	*30.7-106*				
LCS (BC50487-BS1) LCS							Prepared & Analyzed: 03/07/2025				
1,1-Biphenyl	14.2	5.00	ug/L	25.0		56.7	33-95				
1,2,4,5-Tetrachlorobenzene	12.0	5.00	"	25.0		47.9	26-120				
1,2-Diphenylhydrazine (as Azobenzene)	15.8	5.00	"	25.0		63.1	16-141				
2,3,4,6-Tetrachlorophenol	16.2	5.00	"	25.0		64.6	30-130				
2,4,5-Trichlorophenol	15.3	5.00	"	25.0		61.1	32-114				
2,4,6-Trichlorophenol	15.2	5.00	"	25.0		60.6	35-118				
2,4-Dichlorophenol	13.3	5.00	"	25.0		53.0	25-116				
2,4-Dimethylphenol	13.2	5.00	"	25.0		52.7	15-116				
2,4-Dinitrophenol	8.00	5.00	"	25.0		32.0	10-170				
2,4-Dinitrotoluene	17.2	5.00	"	25.0		68.9	41-128				
2,6-Dinitrotoluene	16.6	5.00	"	25.0		66.5	45-116				
2-Chloronaphthalene	13.8	5.00	"	25.0		55.2	33-112				
2-Chlorophenol	11.9	5.00	"	25.0		47.8	15-120				
2-Methylnaphthalene	12.6	5.00	"	25.0		50.6	24-118				
2-Methylphenol	10.6	5.00	"	25.0		42.3	10-110				
2-Nitroaniline	15.8	5.00	"	25.0		63.2	34-129				
2-Nitrophenol	11.8	5.00	"	25.0		47.3	28-118				
3- & 4-Methylphenols	9.15	5.00	"	25.0		36.6	10-107				
3,3-Dichlorobenzidine	6.53	5.00	"	25.0		26.1	15-187				
3-Nitroaniline	10.7	5.00	"	25.0		42.9	24-134				
4,6-Dinitro-2-methylphenol	15.6	5.00	"	25.0		62.4	10-153				
4-Bromophenyl phenyl ether	14.7	5.00	"	25.0		58.7	34-120				
4-Chloro-3-methylphenol	14.4	5.00	"	25.0		57.7	20-120				
4-Chloroaniline	7.97	5.00	"	25.0		31.9	10-147				
4-Chlorophenyl phenyl ether	16.1	5.00	"	25.0		64.3	27-121				
4-Nitroaniline	12.7	5.00	"	25.0		50.8	13-134				
4-Nitrophenol	8.83	5.00	"	25.0		35.3	10-131				
Acetophenone	12.4	5.00	"	25.0		49.4	25-110				
Aniline	4.13	5.00	"	25.0		16.5	10-117				
Benzaldehyde	12.4	5.00	"	25.0		49.6	29-117				
Benzoic acid	4.64	5.00	"	25.0		18.6	30-130	Low Bias			
Benzyl alcohol	10.2	5.00	"	25.0		40.7	10-117				
Benzyl butyl phthalate	19.5	5.00	"	25.0		78.0	29-133				
Bis(2-chloroethoxy)methane	13.8	5.00	"	25.0		55.2	10-154				
Bis(2-chloroethyl)ether	11.7	5.00	"	25.0		46.6	17-125				
Bis(2-chloroisopropyl)ether	10.6	5.00	"	25.0		42.6	10-139				
Caprolactam	3.17	5.00	"	25.0		12.7	10-137				
Carbazole	15.8	5.00	"	25.0		63.4	42-126				
Dibenzofuran	15.2	5.00	"	25.0		60.8	36-113				
Diethyl phthalate	17.3	5.00	"	25.0		69.1	38-115				
Dimethyl phthalate	17.4	5.00	"	25.0		69.4	38-129				
Di-n-butyl phthalate	20.6	5.00	"	25.0		82.6	31-120				
Di-n-octyl phthalate	19.3	5.00	"	25.0		77.1	21-149				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50487 - EPA 3510C											
LCS (BC50487-BS1) LCS							Prepared & Analyzed: 03/07/2025				
Diphenylamine	16.7	5.00	ug/L	25.0		66.8	40-140				
Hexachlorocyclopentadiene	12.4	10.0	"	25.0		49.4	10-130				
Isophorone	14.4	5.00	"	25.0		57.5	25-127				
N-nitroso-di-n-propylamine	13.0	5.00	"	25.0		52.2	26-122				
N-Nitrosodiphenylamine	16.1	5.00	"	25.0		64.4	23-149				
Phenol	4.54	5.00	"	25.0		18.2	10-110				
Pyridine	ND	5.00	"	35.0			10-90	Low Bias			
Surrogate: SURR: 2-Fluorophenol	*15.9*		*"*	*50.0*		*31.8*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*9.14*		*"*	*50.0*		*18.3*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*13.5*		*"*	*25.0*		*54.0*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*14.2*		*"*	*25.0*		*57.0*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*33.8*		*"*	*50.0*		*67.6*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*18.4*		*"*	*25.0*		*73.4*	*30.7-106*				
Batch BC50488 - EPA 3510C											
Blank (BC50488-BLK2) Blank							Prepared & Analyzed: 03/07/2025				
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50488 - EPA 3510C											
LCS (BC50488-BS2) LCS							Prepared & Analyzed: 03/07/2025				
Acenaphthene	0.670	0.0500	ug/L	1.25		53.6	25-116				
Acenaphthylene	0.790	0.0500	"	1.25		63.2	26-116				
Anthracene	0.860	0.0500	"	1.25		68.8	25-123				
Benzo(a)anthracene	0.930	0.0500	"	1.25		74.4	33-125				
Benzo(a)pyrene	0.860	0.0500	"	1.25		68.8	32-132				
Benzo(b)fluoranthene	0.920	0.0500	"	1.25		73.6	22-137				
Benzo(g,h,i)perylene	1.28	0.0500	"	1.25		102	10-138				
Benzo(k)fluoranthene	0.940	0.0500	"	1.25		75.2	20-137				
Bis(2-ethylhexyl)phthalate	1.36	0.500	"	1.25		109	10-189				
Chrysene	0.970	0.0500	"	1.25		77.6	32-124				
Dibenzo(a,h)anthracene	1.16	0.0500	"	1.25		92.8	16-133				
Fluoranthene	0.870	0.0500	"	1.25		69.6	32-121				
Fluorene	0.840	0.0500	"	1.25		67.2	28-118				
Hexachlorobenzene	0.910	0.0200	"	1.25		72.8	23-124				
Hexachlorobutadiene	0.620	0.500	"	1.25		49.6	15-123				
Hexachloroethane	3.16	0.500	"	1.25		253	18-115	High Bias			
Indeno(1,2,3-cd)pyrene	1.14	0.0500	"	1.25		91.2	15-135				
Naphthalene	0.620	0.0500	"	1.25		49.6	18-120				
Nitrobenzene	0.380	0.250	"	1.25		30.4	21-121				
N-Nitrosodimethylamine	ND	0.500	"	1.25			10-124	Low Bias			
Pentachlorophenol	0.270	0.250	"	1.25		21.6	10-156				
Phenanthrene	0.810	0.0500	"	1.25		64.8	24-127				
Pyrene	0.880	0.0500	"	1.25		70.4	31-132				
Batch BC50614 - EPA 3550C											
Blank (BC50614-BLK1) Blank							Prepared: 03/10/2025 Analyzed: 03/11/2025				
1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50614 - EPA 3550C											
Blank (BC50614-BLK1) Blank									Prepared: 03/10/2025 Analyzed: 03/11/2025		
4-Chlorophenyl phenyl ether	ND	0.0416	mg/kg wet								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								
Caprolactam	ND	0.0830	"								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								
Dibenzofuran	ND	0.0416	"								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Pyridine	ND	0.166	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50614 - EPA 3550C											
Blank (BC50614-BLK1) Blank								Prepared: 03/10/2025 Analyzed: 03/11/2025			
Surrogate: SURR: 2-Fluorophenol	*1.17*		*mg/kg wet*	*1.66*		*70.3*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.07*		*"*	*1.66*		*64.1*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.519*		*"*	*0.831*		*62.5*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.507*		*"*	*0.831*		*61.0*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.18*		*"*	*1.66*		*71.1*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.536*		*"*	*0.831*		*64.6*	*24-116*				
LCS (BC50614-BS1) LCS								Prepared: 03/10/2025 Analyzed: 03/11/2025			
1,1-Biphenyl	0.672	0.0416	mg/kg wet	0.831		80.9	18-111				
1,2,4,5-Tetrachlorobenzene	0.634	0.0830	"	0.831		76.4	21-131				
1,2-Diphenylhydrazine (as Azobenzene)	0.682	0.0416	"	0.831		82.1	17-137				
2,3,4,6-Tetrachlorophenol	0.831	0.0830	"	0.831		100	30-130				
2,4,5-Trichlorophenol	0.719	0.0416	"	0.831		86.6	27-118				
2,4,6-Trichlorophenol	0.716	0.0416	"	0.831		86.2	31-120				
2,4-Dichlorophenol	0.695	0.0416	"	0.831		83.6	20-127				
2,4-Dimethylphenol	0.738	0.0416	"	0.831		88.9	14-132				
2,4-Dinitrophenol	0.761	0.0830	"	0.831		91.6	10-171				
2,4-Dinitrotoluene	0.714	0.0416	"	0.831		86.0	34-131				
2,6-Dinitrotoluene	0.678	0.0416	"	0.831		81.6	31-128				
2-Chloronaphthalene	0.634	0.0416	"	0.831		76.3	31-117				
2-Chlorophenol	0.675	0.0416	"	0.831		81.3	33-113				
2-Methylnaphthalene	0.584	0.0416	"	0.831		70.3	12-138				
2-Methylphenol	0.662	0.0416	"	0.831		79.7	10-136				
2-Nitroaniline	0.710	0.0830	"	0.831		85.5	27-132				
2-Nitrophenol	0.644	0.0416	"	0.831		77.5	17-129				
3- & 4-Methylphenols	0.594	0.0416	"	0.831		71.6	29-103				
3,3-Dichlorobenzidine	0.558	0.0416	"	0.831		67.2	22-149				
3-Nitroaniline	0.594	0.0830	"	0.831		71.6	20-133				
4,6-Dinitro-2-methylphenol	0.689	0.0830	"	0.831		83.0	10-143				
4-Bromophenyl phenyl ether	0.656	0.0416	"	0.831		79.0	29-120				
4-Chloro-3-methylphenol	0.739	0.0416	"	0.831		88.9	24-129				
4-Chloroaniline	0.311	0.0416	"	0.831		37.5	10-132				
4-Chlorophenyl phenyl ether	0.641	0.0416	"	0.831		77.2	27-124				
4-Nitroaniline	0.685	0.0830	"	0.831		82.5	16-128				
4-Nitrophenol	0.779	0.0830	"	0.831		93.8	10-141				
Acenaphthene	0.644	0.0416	"	0.831		77.5	30-121				
Acenaphthylene	0.668	0.0416	"	0.831		80.5	30-115				
Acetophenone	0.669	0.0416	"	0.831		80.6	20-112				
Aniline	0.659	0.166	"	0.831		79.4	10-119				
Anthracene	0.696	0.0416	"	0.831		83.8	34-118				
Atrazine	0.770	0.0416	"	0.831		92.8	26-112				
Benzaldehyde	0.659	0.0416	"	0.831		79.3	21-100				
Benzo(a)anthracene	0.717	0.0416	"	0.831		86.3	32-122				
Benzo(a)pyrene	0.718	0.0416	"	0.831		86.5	29-133				
Benzo(b)fluoranthene	0.737	0.0416	"	0.831		88.8	25-133				
Benzo(g,h,i)perylene	0.784	0.0416	"	0.831		94.4	10-143				
Benzo(k)fluoranthene	0.701	0.0416	"	0.831		84.4	25-128				
Benzoic acid	1.64	0.0416	"	0.831		198	10-140	High Bias			
Benzyl alcohol	0.634	0.0416	"	0.831		76.3	30-115				
Benzyl butyl phthalate	0.715	0.0416	"	0.831		86.1	26-126				
Bis(2-chloroethoxy)methane	0.635	0.0416	"	0.831		76.4	19-132				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50614 - EPA 3550C											
LCS (BC50614-BS1) LCS							Prepared: 03/10/2025 Analyzed: 03/11/2025				
Bis(2-chloroethyl)ether	0.970	0.0416	mg/kg wet	0.831		117	19-125				
Bis(2-chloroisopropyl)ether	0.613	0.0416	"	0.831		73.8	20-135				
Bis(2-ethylhexyl)phthalate	0.721	0.0416	"	0.831		86.8	10-155				
Caprolactam	0.794	0.0830	"	0.831		95.6	10-127				
Carbazole	0.688	0.0416	"	0.831		82.9	35-123				
Chrysene	0.719	0.0416	"	0.831		86.5	32-123				
Dibenzo(a,h)anthracene	0.738	0.0416	"	0.831		88.8	10-136				
Dibenzofuran	0.658	0.0416	"	0.831		79.3	29-121				
Diethyl phthalate	0.689	0.0416	"	0.831		83.0	34-116				
Dimethyl phthalate	0.684	0.0416	"	0.831		82.4	35-124				
Di-n-butyl phthalate	0.697	0.0416	"	0.831		84.0	31-116				
Di-n-octyl phthalate	0.705	0.0416	"	0.831		84.9	26-136				
Diphenylamine	0.776	0.0830	"	0.831		93.4	40-140				
Fluoranthene	0.672	0.0416	"	0.831		80.9	33-122				
Fluorene	0.663	0.0416	"	0.831		79.9	29-123				
Hexachlorobenzene	0.691	0.0416	"	0.831		83.2	21-124				
Hexachlorobutadiene	0.653	0.0416	"	0.831		78.7	10-149				
Hexachlorocyclopentadiene	0.618	0.0416	"	0.831		74.4	10-129				
Hexachloroethane	0.636	0.0416	"	0.831		76.6	28-108				
Indeno(1,2,3-cd)pyrene	0.748	0.0416	"	0.831		90.0	10-135				
Isophorone	0.639	0.0416	"	0.831		76.9	20-132				
Naphthalene	0.653	0.0416	"	0.831		78.7	23-124				
Nitrobenzene	0.645	0.0416	"	0.831		77.7	13-132				
N-Nitrosodimethylamine	0.601	0.0416	"	0.831		72.3	11-129				
N-nitroso-di-n-propylamine	0.605	0.0416	"	0.831		72.8	24-119				
N-Nitrosodiphenylamine	0.790	0.0416	"	0.831		95.1	22-152				
Pentachlorophenol	0.606	0.0416	"	0.831		73.0	10-139				
Phenanthrene	0.685	0.0416	"	0.831		82.4	33-123				
Phenol	0.625	0.0416	"	0.831		75.2	23-115				
Pyrene	0.711	0.0416	"	0.831		85.6	24-130				
Pyridine	0.501	0.166	"	0.831		60.3	10-91				
Surrogate: SURR: 2-Fluorophenol	*1.41*		*"*	*1.66*		*84.7*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.32*		*"*	*1.66*		*79.6*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.618*		*"*	*0.831*		*74.4*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.612*		*"*	*0.831*		*73.6*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.46*		*"*	*1.66*		*87.6*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.667*		*"*	*0.831*		*80.3*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50614 - EPA 3550C											
Matrix Spike (BC50614-MS1) Matrix Spike *Source sample: 25C0068-06 (SB15_0-2)									Prepared: 03/10/2025 Analyzed: 03/11/2025		
1,1-Biphenyl	0.613	0.0965	mg/kg dry	0.965	ND	63.5	10-130				
1,2,4,5-Tetrachlorobenzene	0.576	0.193	"	0.965	ND	59.7	10-133				
1,2-Diphenylhydrazine (as Azobenzene)	0.571	0.0965	"	0.965	ND	59.2	10-144				
2,3,4,6-Tetrachlorophenol	0.662	0.193	"	0.965	ND	68.6	30-130				
2,4,5-Trichlorophenol	0.598	0.0965	"	0.965	ND	62.0	10-127				
2,4,6-Trichlorophenol	0.587	0.0965	"	0.965	ND	60.9	10-132				
2,4-Dichlorophenol	0.623	0.0965	"	0.965	ND	64.6	10-128				
2,4-Dimethylphenol	0.482	0.0965	"	0.965	ND	50.0	10-137				
2,4-Dinitrophenol	0.426	0.193	"	0.965	ND	44.2	10-171				
2,4-Dinitrotoluene	0.546	0.0965	"	0.965	ND	56.6	16-135				
2,6-Dinitrotoluene	0.574	0.0965	"	0.965	ND	59.5	18-131				
2-Chloronaphthalene	0.576	0.0965	"	0.965	ND	59.7	10-129				
2-Chlorophenol	0.595	0.0965	"	0.965	ND	61.7	15-116				
2-Methylnaphthalene	0.543	0.0965	"	0.965	ND	56.3	10-147				
2-Methylphenol	0.563	0.0965	"	0.965	ND	58.3	10-136				
2-Nitroaniline	0.586	0.193	"	0.965	ND	60.7	10-137				
2-Nitrophenol	0.567	0.0965	"	0.965	ND	58.8	10-129				
3- & 4-Methylphenols	0.486	0.0965	"	0.965	ND	50.4	10-123				
3,3-Dichlorobenzidine	0.200	0.0965	"	0.965	ND	20.7	10-155				
3-Nitroaniline	0.494	0.193	"	0.965	ND	51.2	12-133				
4,6-Dinitro-2-methylphenol	0.474	0.193	"	0.965	ND	49.1	10-155				
4-Bromophenyl phenyl ether	0.529	0.0965	"	0.965	ND	54.9	14-128				
4-Chloro-3-methylphenol	0.613	0.0965	"	0.965	ND	63.5	10-134				
4-Chloroaniline	0.395	0.0965	"	0.965	ND	41.0	10-145				
4-Chlorophenyl phenyl ether	0.560	0.0965	"	0.965	ND	58.0	14-130				
4-Nitroaniline	0.547	0.193	"	0.965	ND	56.7	10-147				
4-Nitrophenol	0.611	0.193	"	0.965	ND	63.4	10-137				
Acenaphthene	0.563	0.0965	"	0.965	ND	58.4	10-146				
Acenaphthylene	0.587	0.0965	"	0.965	ND	60.9	10-134				
Acetophenone	0.607	0.0965	"	0.965	ND	62.9	10-116				
Aniline	0.642	0.387	"	0.965	ND	66.6	10-123				
Anthracene	0.580	0.0965	"	0.965	ND	60.1	10-142				
Atrazine	0.651	0.0965	"	0.965	ND	67.4	19-115				
Benzaldehyde	0.619	0.0965	"	0.965	ND	64.2	10-125				
Benzo(a)anthracene	0.604	0.0965	"	0.965	ND	62.6	10-158				
Benzo(a)pyrene	0.690	0.0965	"	0.965	ND	71.5	10-180				
Benzo(b)fluoranthene	0.692	0.0965	"	0.965	ND	71.8	10-200				
Benzo(g,h,i)perylene	0.660	0.0965	"	0.965	ND	68.4	10-138				
Benzo(k)fluoranthene	0.671	0.0965	"	0.965	ND	69.5	10-197				
Benzoic acid	0.799	0.0965	"	0.965	ND	82.8	10-166				
Benzyl alcohol	0.573	0.0965	"	0.965	ND	59.4	12-124				
Benzyl butyl phthalate	0.539	0.0965	"	0.965	ND	55.8	10-154				
Bis(2-chloroethoxy)methane	0.574	0.0965	"	0.965	ND	59.5	10-132				
Bis(2-chloroethyl)ether	0.945	0.0965	"	0.965	ND	97.9	10-119				
Bis(2-chloroisopropyl)ether	0.552	0.0965	"	0.965	ND	57.2	10-139				
Bis(2-ethylhexyl)phthalate	0.580	0.0965	"	0.965	ND	60.1	10-167				
Caprolactam	0.620	0.193	"	0.965	ND	64.2	10-132				
Carbazole	0.591	0.0965	"	0.965	ND	61.3	10-167				
Chrysene	0.630	0.0965	"	0.965	ND	65.3	10-156				
Dibenzo(a,h)anthracene	0.620	0.0965	"	0.965	ND	64.2	10-137				
Dibenzofuran	0.587	0.0965	"	0.965	ND	60.8	10-147				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50614 - EPA 3550C											
Matrix Spike (BC50614-MS1) Matrix Spike *Source sample: 25C0068-06 (SB15_0-2)								Prepared: 03/10/2025 Analyzed: 03/11/2025			
Diethyl phthalate	0.548	0.0965	mg/kg dry	0.965	ND	56.8	20-120				
Dimethyl phthalate	0.567	0.0965	"	0.965	ND	58.8	18-131				
Di-n-butyl phthalate	0.549	0.0965	"	0.965	ND	56.9	10-137				
Di-n-octyl phthalate	0.573	0.0965	"	0.965	ND	59.4	10-180				
Diphenylamine	0.634	0.193	"	0.965	ND	65.7	40-140				
Fluoranthene	0.609	0.0965	"	0.965	ND	63.1	10-160				
Fluorene	0.576	0.0965	"	0.965	ND	59.8	10-157				
Hexachlorobenzene	0.573	0.0965	"	0.965	ND	59.4	10-137				
Hexachlorobutadiene	0.591	0.0965	"	0.965	ND	61.3	10-132				
Hexachlorocyclopentadiene	0.412	0.0965	"	0.965	ND	42.7	10-106				
Hexachloroethane	0.560	0.0965	"	0.965	ND	58.0	10-110				
Indeno(1,2,3-cd)pyrene	0.631	0.0965	"	0.965	ND	65.4	10-144				
Isophorone	0.563	0.0965	"	0.965	ND	58.4	10-132				
Naphthalene	0.604	0.0965	"	0.965	ND	62.6	10-141				
Nitrobenzene	0.593	0.0965	"	0.965	ND	61.4	10-131				
N-Nitrosodimethylamine	0.543	0.0965	"	0.965	ND	56.2	10-126				
N-nitroso-di-n-propylamine	0.521	0.0965	"	0.965	ND	54.0	10-125				
N-Nitrosodiphenylamine	0.616	0.0965	"	0.965	ND	63.8	10-177				
Pentachlorophenol	0.505	0.0965	"	0.965	ND	52.3	10-153				
Phenanthrene	0.592	0.0965	"	0.965	ND	61.4	10-148				
Phenol	0.547	0.0965	"	0.965	ND	56.7	10-126				
Pyrene	0.587	0.0965	"	0.965	ND	60.9	10-165				
Pyridine	0.235	0.387	"	0.965	ND	24.4	10-83				
Surrogate: SURR: 2-Fluorophenol	*1.19*		*"*	*1.93*		*61.6*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.13*		*"*	*1.93*		*58.5*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.546*		*"*	*0.965*		*56.6*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.516*		*"*	*0.965*		*53.5*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.15*		*"*	*1.93*		*59.4*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.494*		*"*	*0.965*		*51.2*	*24-116*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50176 - EPA 3535A											
Blank (BC50176-BLK1) Blank							Prepared: 03/04/2025 Analyzed: 03/05/2025				
1,4-Dioxane	ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8	*4.16*		*"*	*4.00*		*104*	*36.6-118*				
LCS (BC50176-BS1) LCS							Prepared: 03/04/2025 Analyzed: 03/05/2025				
1,4-Dioxane	4.02	0.300	ug/L	4.00		100	50-130				
Surrogate: 1,4-Dioxane-d8	*3.84*		*"*	*4.00*		*96.0*	*36.6-118*				
Batch BC50763 - EPA 3550C											
Blank (BC50763-BLK1) Blank							Prepared & Analyzed: 03/11/2025				
1,4-Dioxane	ND	20.0	ug/kg								
Surrogate: 1,4-Dioxane-d8	*410*		*"*	*500*		*82.0*	*39-127.5*				
LCS (BC50763-BS1) LCS							Prepared & Analyzed: 03/11/2025				
1,4-Dioxane	445	20.0	ug/kg	500		89.0	40-130				
Surrogate: 1,4-Dioxane-d8	*370*		*"*	*500*		*74.0*	*39-127.5*				
Matrix Spike (BC50763-MS1) Matrix Spike *Source sample: 25C0068-06 (SB15_0-2)							Prepared: 03/11/2025 Analyzed: 03/12/2025				
1,4-Dioxane	452	20.0	ug/kg	500	ND	90.4	40-130				
Surrogate: 1,4-Dioxane-d8	*550*		*"*	*500*		*110*	*40-130*				
Matrix Spike Dup (BC50763-! Matrix Spike Dup *Source sample: 25C0068-06 (SB15_0-2)							Prepared: 03/11/2025 Analyzed: 03/12/2025				
1,4-Dioxane	429	20.0	ug/kg	500	ND	85.8	40-130		5.22	30	
Surrogate: 1,4-Dioxane-d8	*330*		*"*	*500*		*66.0*	*40-130*				
Batch BC50764 - EPA 3550C											
Blank (BC50764-BLK1) Blank							Prepared: 03/11/2025 Analyzed: 03/12/2025				
1,4-Dioxane	ND	20.0	ug/kg								
Surrogate: 1,4-Dioxane-d8	*540*		*"*	*500*		*108*	*39-127.5*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50764 - EPA 3550C											
LCS (BC50764-BS1) LCS								Prepared: 03/11/2025 Analyzed: 03/12/2025			
1,4-Dioxane	452	20.0	ug/kg	500		90.4	40-130				
Surrogate: 1,4-Dioxane-d8	*430*		*"*	*500*		*86.0*	*39-127.5*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50523 - EPA 1633 Prep											
Blank (BC50523-BLK1) Blank									Prepared: 03/07/2025 Analyzed: 03/10/2025		
Perfluorobutanesulfonic acid (PFBS)	ND	0.177	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.200	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.200	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.183	"								
Perfluorooctanoic acid (PFOA)	ND	0.200	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.186	"								
Perfluorononanoic acid (PFNA)	ND	0.200	"								
Perfluorodecanoic acid (PFDA)	ND	0.200	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.200	"								
Perfluorododecanoic acid (PFDoA)	ND	0.200	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.200	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.200	"								
N-MeFOSAA	ND	0.200	"								
N-EtFOSAA	ND	0.200	"								
Perfluoropentanoic acid (PFPeA)	ND	0.399	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.200	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.200	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.193	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	0.758	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	0.766	"								
Perfluoro-n-butanoic acid (PFBA)	0.374	0.798	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.355	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.399	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.399	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.399	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.188	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	ND	0.749	"								
HFPO-DA (Gen-X)	ND	0.798	"								
11CL-PF3OUdS	ND	0.754	"								
9CL-PF3ONS	ND	0.747	"								
ADONA	ND	0.754	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.194	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.192	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	0.998	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	4.99	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	4.99	"								
N-MeFOSE	ND	2.00	"								
N-MeFOSA	ND	0.200	"								
N-EtFOSE	ND	2.00	"								
N-EtFOSA	ND	0.200	"								
Surrogate: M3PFBS	*2.89*		*"*	*2.33*		*124*	*25-150*				
Surrogate: M5PFHxA	*2.80*		*"*	*2.50*		*112*	*25-150*				
Surrogate: M4PFHpA	*3.18*		*"*	*2.50*		*128*	*25-150*				
Surrogate: M3PFHxS	*2.67*		*"*	*2.37*		*113*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.01*		*"*	*2.50*		*121*	*25-150*				
Surrogate: M6PFDA	*1.47*		*"*	*1.25*		*118*	*25-150*				
Surrogate: M7PFUdA	*1.37*		*"*	*1.25*		*110*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.09*		*"*	*1.25*		*87.2*	*25-150*				
Surrogate: M2PFTeDA	*0.980*		*"*	*1.25*		*78.6*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50523 - EPA 1633 Prep											
Blank (BC50523-BLK1) Blank								Prepared: 03/07/2025 Analyzed: 03/10/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.410*		*ug/kg wet*	*9.98*		*4.11*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.36*		*"*	*2.39*		*98.9*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*2.51*		*"*	*4.99*		*50.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.32*		*"*	*2.50*		*92.8*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.06*		*"*	*4.99*		*81.3*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.13*		*"*	*4.99*		*82.7*	*25-150*				
Surrogate: M2-6:2 FTS	*4.94*		*"*	*4.75*		*104*	*25-200*				
Surrogate: M2-8:2 FTS	*4.54*		*"*	*4.79*		*94.8*	*25-200*				
Surrogate: M9PFNA	*1.55*		*"*	*1.25*		*124*	*25-150*				
Surrogate: M2-4:2 FTS	*5.10*		*"*	*4.68*		*109*	*25-150*				
Surrogate: d-N-MeFOSA	*1.82*		*"*	*2.50*		*72.9*	*25-150*				
Surrogate: d-N-EtFOSA	*1.46*		*"*	*2.50*		*58.5*	*25-150*				
Surrogate: M3HFPO-DA	*12.4*		*"*	*9.98*		*125*	*25-150*				
Surrogate: d9-N-EtFOSE	*14.2*		*"*	*25.0*		*56.8*	*25-150*				
Surrogate: d7-N-MeFOSE	*14.0*		*"*	*25.0*		*56.2*	*25-150*				
LCS (BC50523-BS1) LCS								Prepared: 03/07/2025 Analyzed: 03/10/2025			
Perfluorobutanesulfonic acid (PFBS)	3.68	0.176	ug/kg wet	3.51		105	50-150				
Perfluorohexanoic acid (PFHxA)	3.93	0.198	"	3.97		98.9	50-150				
Perfluoroheptanoic acid (PFHpA)	4.00	0.198	"	3.97		101	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.77	0.182	"	3.63		104	50-150				
Perfluorooctanoic acid (PFOA)	3.63	0.198	"	3.97		91.6	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.65	0.185	"	3.69		98.9	50-150				
Perfluorononanoic acid (PFNA)	3.65	0.198	"	3.97		92.0	50-150				
Perfluorodecanoic acid (PFDA)	3.88	0.198	"	3.97		97.7	50-150				
Perfluoroundecanoic acid (PFUnA)	3.97	0.198	"	3.97		100	50-150				
Perfluorododecanoic acid (PFDoA)	3.63	0.198	"	3.97		91.6	50-150				
Perfluorotridecanoic acid (PFTrDA)	3.98	0.198	"	3.97		100	50-150				
Perfluorotetradecanoic acid (PFTA)	4.12	0.198	"	3.97		104	50-150				
N-MeFOSAA	4.17	0.198	"	3.97		105	50-150				
N-EtFOSAA	4.29	0.198	"	3.97		108	50-150				
Perfluoropentanoic acid (PFPeA)	8.04	0.397	"	7.94		101	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	3.79	0.198	"	3.97		95.6	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.51	0.198	"	3.79		92.7	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.01	0.191	"	3.83		78.5	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	15.6	0.754	"	15.1		104	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	17.1	0.762	"	15.2		112	50-150				
Perfluoro-n-butanoic acid (PFBA)	13.5	0.794	"	15.9		84.9	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.78	0.353	"	7.06		110	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	5.45	0.397	"	7.94		68.7	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.05	0.397	"	7.94		13.2	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	14.8	0.397	"	7.94		186	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	3.91	0.187	"	3.73		105	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	16.1	0.744	"	14.9		108	50-150				
HFPO-DA (Gen-X)	8.62	0.794	"	7.94		109	50-150				
11CL-PF3OUdS	5.19	0.750	"	7.50		69.2	50-150				
9CL-PF3ONS	6.68	0.742	"	7.42		90.0	50-150				
ADONA	6.94	0.750	"	7.50		92.6	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50523 - EPA 1633 Prep											
LCS (BC50523-BS1) LCS								Prepared: 03/07/2025 Analyzed: 03/10/2025			
Perfluorododecanesulfonic acid (PFDoS)	2.28	0.192	ug/kg wet	3.85		59.3	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	3.48	0.190	"	3.81		91.3	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	73.1	0.992	"	15.9		460	50-150	High Bias			
3-Perfluoropentyl propanoic acid (FPePA)	75.1	4.96	"	79.4		94.6	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	7.87	4.96	"	79.4		9.92	50-150	Low Bias			
N-MeFOSE	45.0	1.98	"	39.7		113	50-150				
N-MeFOSA	4.40	0.198	"	3.97		111	50-150				
N-EtFOSE	44.1	1.98	"	39.7		111	50-150				
N-EtFOSA	3.62	0.198	"	3.97		91.3	50-150				
Surrogate: M3PFBS	*2.82*		*"*	*2.31*		*122*	*25-150*				
Surrogate: M5PFHxA	*3.03*		*"*	*2.48*		*122*	*25-150*				
Surrogate: M4PFHpA	*3.27*		*"*	*2.48*		*132*	*25-150*				
Surrogate: M3PFHxS	*2.82*		*"*	*2.35*		*120*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.97*		*"*	*2.48*		*120*	*25-150*				
Surrogate: M6PFDA	*1.46*		*"*	*1.24*		*117*	*25-150*				
Surrogate: M7PFUdA	*1.40*		*"*	*1.24*		*113*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.14*		*"*	*1.24*		*91.8*	*25-150*				
Surrogate: M2PFTeDA	*1.02*		*"*	*1.24*		*82.1*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.390*		*"*	*9.92*		*3.93*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.86*		*"*	*2.38*		*120*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*2.08*		*"*	*4.96*		*41.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.61*		*"*	*2.48*		*105*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.98*		*"*	*4.96*		*100*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.70*		*"*	*4.96*		*94.7*	*25-150*				
Surrogate: M2-6:2 FTS	*5.17*		*"*	*4.72*		*110*	*25-200*				
Surrogate: M2-8:2 FTS	*5.19*		*"*	*4.76*		*109*	*25-200*				
Surrogate: M9PFNA	*1.50*		*"*	*1.24*		*121*	*25-150*				
Surrogate: M2-4:2 FTS	*5.04*		*"*	*4.65*		*108*	*25-150*				
Surrogate: d-N-MeFOSA	*2.03*		*"*	*2.48*		*81.9*	*25-150*				
Surrogate: d-N-EtFOSA	*1.87*		*"*	*2.48*		*75.4*	*25-150*				
Surrogate: M3HFPO-DA	*13.7*		*"*	*9.92*		*138*	*25-150*				
Surrogate: d9-N-EtFOSE	*15.5*		*"*	*24.8*		*62.3*	*25-150*				
Surrogate: d7-N-MeFOSE	*15.4*		*"*	*24.8*		*62.2*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50523 - EPA 1633 Prep											
LCS (BC50523-BS2) LCS								Prepared: 03/07/2025 Analyzed: 03/10/2025			
Perfluorobutanesulfonic acid (PFBS)	0.377	0.176	ug/kg wet	0.353		107	50-150				
Perfluorohexanoic acid (PFHxA)	0.396	0.199	"	0.398		99.4	50-150				
Perfluoroheptanoic acid (PFHpA)	0.424	0.199	"	0.398		106	50-150				
Perfluorohexanesulfonic acid (PFHxS)	0.372	0.182	"	0.365		102	50-150				
Perfluorooctanoic acid (PFOA)	0.398	0.199	"	0.398		99.9	50-150				
Perfluorooctanesulfonic acid (PFOS)	0.437	0.185	"	0.371		118	50-150				
Perfluorononanoic acid (PFNA)	0.380	0.199	"	0.398		95.3	50-150				
Perfluorodecanoic acid (PFDA)	0.376	0.199	"	0.398		94.3	50-150				
Perfluoroundecanoic acid (PFUnA)	0.432	0.199	"	0.398		109	50-150				
Perfluorododecanoic acid (PFDoA)	0.370	0.199	"	0.398		92.8	50-150				
Perfluorotridecanoic acid (PFTrDA)	0.477	0.199	"	0.398		120	50-150				
Perfluorotetradecanoic acid (PFTA)	0.425	0.199	"	0.398		107	50-150				
N-MeFOSAA	0.412	0.199	"	0.398		103	50-150				
N-EtFOSAA	0.472	0.199	"	0.398		118	50-150				
Perfluoropentanoic acid (PFPeA)	0.778	0.398	"	0.797		97.7	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	0.409	0.199	"	0.398		103	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.387	0.199	"	0.380		102	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	0.243	0.192	"	0.384		63.2	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	1.60	0.757	"	1.51		106	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	1.73	0.765	"	1.53		113	50-150				
Perfluoro-n-butanoic acid (PFBA)	1.21	0.797	"	1.59		76.0	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.788	0.355	"	0.709		111	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	0.801	0.398	"	0.797		101	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	0.0619	0.398	"	0.797		7.76	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.85	0.398	"	0.797		232	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	0.383	0.187	"	0.375		102	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	1.72	0.747	"	1.49		115	50-150				
HFPO-DA (Gen-X)	1.10	0.797	"	0.797		137	50-150				
11CL-PF3OUdS	0.501	0.753	"	0.753		66.5	50-150				
9CL-PF3ONS	0.643	0.745	"	0.745		86.3	50-150				
ADONA	0.739	0.753	"	0.753		98.2	50-150				
Perfluorododecanesulfonic acid (PFDoS)	0.213	0.193	"	0.386		55.2	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	0.317	0.191	"	0.382		83.0	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	6.95	0.996	"	1.59		436	50-150	High Bias			
3-Perfluoropentyl propanoic acid (FPePA)	7.01	4.98	"	7.97		87.9	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	0.732	4.98	"	7.97		9.18	50-150	Low Bias			
N-MeFOSE	4.18	1.99	"	3.98		105	50-150				
N-MeFOSA	0.534	0.199	"	0.398		134	50-150				
N-EtFOSE	4.37	1.99	"	3.98		110	50-150				
N-EtFOSA	0.400	0.199	"	0.398		100	50-150				
Surrogate: M3PFBS	*2.53*		*"*	*2.32*		*109*	*25-150*				
Surrogate: M5PFHxA	*2.56*		*"*	*2.49*		*103*	*25-150*				
Surrogate: M4PFHpA	*2.74*		*"*	*2.49*		*110*	*25-150*				
Surrogate: M3PFHxS	*2.48*		*"*	*2.36*		*105*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.55*		*"*	*2.49*		*102*	*25-150*				
Surrogate: M6PFDA	*1.12*		*"*	*1.25*		*89.8*	*25-150*				
Surrogate: M7PFUdA	*1.15*		*"*	*1.25*		*92.7*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.983*		*"*	*1.25*		*79.0*	*25-150*				
Surrogate: M2PFTeDA	*0.805*		*"*	*1.25*		*64.7*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50523 - EPA 1633 Prep											
LCS (BC50523-BS2) LCS								Prepared: 03/07/2025 Analyzed: 03/10/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.114*		*ug/kg wet*	*9.96*		*1.14*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.39*		*"*	*2.39*		*100*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*1.10*		*"*	*4.98*		*22.1*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.26*		*"*	*2.49*		*90.7*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.17*		*"*	*4.98*		*83.8*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.13*		*"*	*4.98*		*83.0*	*25-150*				
Surrogate: M2-6:2 FTS	*4.40*		*"*	*4.74*		*92.9*	*25-200*				
Surrogate: M2-8:2 FTS	*4.22*		*"*	*4.78*		*88.3*	*25-200*				
Surrogate: M9PFNA	*1.37*		*"*	*1.25*		*110*	*25-150*				
Surrogate: M2-4:2 FTS	*4.76*		*"*	*4.67*		*102*	*25-150*				
Surrogate: d-N-MeFOSA	*1.85*		*"*	*2.49*		*74.3*	*25-150*				
Surrogate: d-N-EtFOSA	*1.43*		*"*	*2.49*		*57.3*	*25-150*				
Surrogate: M3HFPO-DA	*10.6*		*"*	*9.96*		*107*	*25-150*				
Surrogate: d9-N-EtFOSE	*14.6*		*"*	*24.9*		*58.5*	*25-150*				
Surrogate: d7-N-MeFOSE	*14.9*		*"*	*24.9*		*59.8*	*25-150*				
Matrix Spike (BC50523-MS1) Matrix Spike *Source sample: 25C0068-06 (SB15_0-2)								Prepared: 03/07/2025 Analyzed: 03/10/2025			
Perfluorobutanesulfonic acid (PFBS)	4.19	0.205	ug/kg dry	4.10	ND	102	25-150				
Perfluorohexanoic acid (PFHxA)	4.72	0.232	"	4.64	0.0686	100	25-150				
Perfluoroheptanoic acid (PFHpA)	4.43	0.232	"	4.64	ND	95.5	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.30	0.212	"	4.24	ND	101	25-150				
Perfluorooctanoic acid (PFOA)	5.08	0.232	"	4.64	0.441	100	25-150				
Perfluorooctanesulfonic acid (PFOS)	4.35	0.216	"	4.31	0.395	91.8	25-150				
Perfluorononanoic acid (PFNA)	4.97	0.232	"	4.64	ND	107	25-150				
Perfluorodecanoic acid (PFDA)	4.25	0.232	"	4.64	ND	91.6	25-150				
Perfluoroundecanoic acid (PFUnA)	5.16	0.232	"	4.64	ND	111	25-150				
Perfluorododecanoic acid (PFDoA)	4.07	0.232	"	4.64	ND	87.8	25-150				
Perfluorotridecanoic acid (PFTrDA)	4.56	0.232	"	4.64	ND	98.4	25-150				
Perfluorotetradecanoic acid (PFTA)	4.35	0.232	"	4.64	ND	93.9	25-150				
N-MeFOSAA	5.13	0.232	"	4.64	ND	111	25-150				
N-EtFOSAA	4.89	0.232	"	4.64	ND	106	25-150				
Perfluoropentanoic acid (PFPeA)	8.96	0.464	"	9.27	ND	96.6	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.56	0.232	"	4.64	ND	98.3	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.84	0.232	"	4.43	ND	86.6	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.85	0.224	"	4.47	ND	86.0	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	18.0	0.881	"	17.6	ND	102	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	18.8	0.890	"	17.8	ND	106	25-150				
Perfluoro-n-butanoic acid (PFBA)	18.1	0.927	"	18.5	0.145	96.7	25-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	9.38	0.413	"	8.25	ND	114	25-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	10.6	0.464	"	9.27	ND	114	25-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	6.41	0.464	"	9.27	ND	69.1	25-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	9.93	0.464	"	9.27	ND	107	25-150				
Perfluoro-1-pentanesulfonate (PFPeS)	4.45	0.218	"	4.36	ND	102	25-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	19.1	0.869	"	17.4	ND	110	25-150				
HFPO-DA (Gen-X)	10.0	0.927	"	9.27	ND	108	25-150				
11CL-PF3OUdS	7.82	0.876	"	8.76	ND	89.2	25-150				
9CL-PF3ONS	8.73	0.867	"	8.67	ND	101	25-150				
ADONA	7.94	0.876	"	8.76	ND	90.6	25-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50523 - EPA 1633 Prep											
Matrix Spike (BC50523-MS1) Matrix Spike *Source sample: 25C0068-06 (SB15_0-2)									Prepared: 03/07/2025 Analyzed: 03/10/2025		
Perfluorododecanesulfonic acid (PFDoS)	3.13	0.225	ug/kg dry	4.50	ND	69.6	25-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	4.28	0.223	"	4.45	ND	96.1	25-150				
3-Perfluoropropyl propanoic acid (FPrPA)	81.0	1.16	"	18.5	ND	437	25-150	High Bias			
3-Perfluoropentyl propanoic acid (FPePA)	63.7	5.80	"	92.7	ND	68.7	25-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	11.5	5.80	"	92.7	ND	12.4	25-150	Low Bias			
N-MeFOSE	47.1	2.32	"	46.4	ND	102	25-150				
N-MeFOSA	4.78	0.232	"	4.64	ND	103	25-150				
N-EtFOSE	48.8	2.32	"	46.4	ND	105	25-150				
N-EtFOSA	4.83	0.232	"	4.64	ND	104	25-150				
Surrogate: M3PFBS	*2.86*		*"*	*2.70*		*106*	*25-150*				
Surrogate: M5PFHxA	*2.56*		*"*	*2.90*		*88.2*	*25-150*				
Surrogate: M4PFHpA	*3.07*		*"*	*2.90*		*106*	*25-150*				
Surrogate: M3PFHxS	*2.89*		*"*	*2.75*		*105*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.62*		*"*	*2.90*		*90.3*	*25-150*				
Surrogate: M6PFDA	*1.31*		*"*	*1.45*		*90.2*	*25-150*				
Surrogate: M7PFUdA	*1.34*		*"*	*1.45*		*92.2*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.14*		*"*	*1.45*		*78.7*	*25-150*				
Surrogate: M2PFTeDA	*1.15*		*"*	*1.45*		*79.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.31*		*"*	*11.6*		*45.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.91*		*"*	*2.78*		*105*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*4.39*		*"*	*5.80*		*75.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.37*		*"*	*2.90*		*81.7*	*10-150*				
Surrogate: d3-N-MeFOSAA	*5.24*		*"*	*5.80*		*90.5*	*25-150*				
Surrogate: d5-N-EtFOSAA	*5.46*		*"*	*5.80*		*94.1*	*25-150*				
Surrogate: M2-6:2 FTS	*5.27*		*"*	*5.51*		*95.5*	*25-200*				
Surrogate: M2-8:2 FTS	*5.95*		*"*	*5.56*		*107*	*25-200*				
Surrogate: M9PFNA	*1.21*		*"*	*1.45*		*83.5*	*25-150*				
Surrogate: M2-4:2 FTS	*5.30*		*"*	*5.44*		*97.5*	*25-150*				
Surrogate: d-N-MeFOSA	*1.82*		*"*	*2.90*		*62.7*	*25-150*				
Surrogate: d-N-EtFOSA	*1.69*		*"*	*2.90*		*58.5*	*25-150*				
Surrogate: M3HFPO-DA	*11.5*		*"*	*11.6*		*99.2*	*25-150*				
Surrogate: d9-N-EtFOSE	*18.9*		*"*	*29.0*		*65.2*	*25-150*				
Surrogate: d7-N-MeFOSE	*18.3*		*"*	*29.0*		*63.0*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Batch BC50523 - EPA 1633 Prep

Matrix Spike Dup (BC50523-! Matrix Spike Dup *Source sample: 25C0068-06 (SB15_0-2) Prepared: 03/07/2025 Analyzed: 03/10/2025

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Perfluorobutanesulfonic acid (PFBS)	4.32	0.205	ug/kg dry	4.10	ND	105	25-150		3.08	35	
Perfluorohexanoic acid (PFHxA)	4.68	0.231	"	4.63	0.0686	99.6	25-150		0.781	35	
Perfluoroheptanoic acid (PFHpA)	4.31	0.231	"	4.63	ND	93.2	25-150		2.62	35	
Perfluorohexanesulfonic acid (PFHxS)	4.42	0.212	"	4.23	ND	104	25-150		2.78	35	
Perfluorooctanoic acid (PFOA)	4.71	0.231	"	4.63	0.441	92.4	25-150		7.52	35	
Perfluorooctanesulfonic acid (PFOS)	4.43	0.215	"	4.30	0.395	93.8	25-150		1.76	35	
Perfluorononanoic acid (PFNA)	3.73	0.231	"	4.63	ND	80.6	25-150		28.5	35	
Perfluorodecanoic acid (PFDA)	4.64	0.231	"	4.63	ND	100	25-150		8.80	35	
Perfluoroundecanoic acid (PFUnA)	5.53	0.231	"	4.63	ND	120	25-150		6.96	35	
Perfluorododecanoic acid (PFDoA)	4.32	0.231	"	4.63	ND	93.4	25-150		5.96	35	
Perfluorotridecanoic acid (PFTrDA)	5.20	0.231	"	4.63	ND	112	25-150		13.2	35	
Perfluorotetradecanoic acid (PFTA)	4.96	0.231	"	4.63	ND	107	25-150		13.1	35	
N-MeFOSAA	5.16	0.231	"	4.63	ND	112	25-150		0.664	35	
N-EtFOSAA	4.93	0.231	"	4.63	ND	106	25-150		0.664	35	
Perfluoropentanoic acid (PFPeA)	9.46	0.463	"	9.25	ND	102	25-150		5.50	35	
Perfluoro-1-octanesulfonamide (FOSA)	4.83	0.231	"	4.63	ND	104	25-150		5.90	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.04	0.231	"	4.42	ND	91.4	25-150		5.18	35	
Perfluoro-1-decanesulfonic acid (PFDS)	3.93	0.223	"	4.47	ND	88.0	25-150		2.05	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	18.1	0.879	"	17.6	ND	103	25-150		0.628	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	19.6	0.888	"	17.8	ND	110	25-150		4.07	35	
Perfluoro-n-butanoic acid (PFBA)	17.7	0.925	"	18.5	0.145	94.9	25-150		2.08	35	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	9.34	0.412	"	8.24	ND	113	25-150		0.429	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	6.49	0.463	"	9.25	ND	70.2	25-150		48.0	30	Non-dir.
Perfluoro-4-oxapentanoic acid (PFMPA)	3.66	0.463	"	9.25	ND	39.5	25-150		54.6	30	Non-dir.
Perfluoro-5-oxahexanoic acid (PFMBA)	12.5	0.463	"	9.25	ND	135	25-150		22.8	30	
Perfluoro-1-pentanesulfonate (PFPeS)	4.62	0.217	"	4.35	ND	106	25-150		3.69	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	18.5	0.868	"	17.4	ND	107	25-150		2.80	30	
HFPO-DA (Gen-X)	10.2	0.925	"	9.25	ND	110	25-150		1.68	30	
11CL-PF3OUdS	7.85	0.875	"	8.75	ND	89.7	25-150		0.353	30	
9CL-PF3ONS	8.76	0.865	"	8.65	ND	101	25-150		0.369	30	
ADONA	7.82	0.875	"	8.75	ND	89.4	25-150		1.46	30	
Perfluorododecanesulfonic acid (PFDoS)	3.20	0.224	"	4.49	ND	71.2	25-150		2.08	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	4.51	0.222	"	4.44	ND	101	25-150		5.23	30	
3-Perfluoropropyl propanoic acid (FPrPA)	76.0	1.16	"	18.5	ND	411	25-150	High Bias	6.38	30	
3-Perfluoropentyl propanoic acid (FPePA)	62.7	5.78	"	92.5	ND	67.8	25-150		1.51	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	9.71	5.78	"	92.5	ND	10.5	25-150	Low Bias	17.1	30	
N-MeFOSE	50.3	2.31	"	46.3	ND	109	25-150		6.58	30	
N-MeFOSA	5.08	0.231	"	4.63	ND	110	25-150		6.02	30	
N-EtFOSE	46.9	2.31	"	46.3	ND	101	25-150		4.00	30	
N-EtFOSA	4.84	0.231	"	4.63	ND	105	25-150		0.292	30	
Surrogate: M3PFBS	*2.41*		*"*	*2.70*		*89.3*	*25-150*				
Surrogate: M5PFHxA	*2.74*		*"*	*2.89*		*94.8*	*25-150*				
Surrogate: M4PFHpA	*3.33*		*"*	*2.89*		*115*	*25-150*				
Surrogate: M3PFHxS	*2.32*		*"*	*2.74*		*84.7*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.91*		*"*	*2.89*		*101*	*25-150*				
Surrogate: M6PFDA	*1.28*		*"*	*1.45*		*88.7*	*25-150*				
Surrogate: M7PFUdA	*1.26*		*"*	*1.45*		*87.0*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.18*		*"*	*1.45*		*81.6*	*25-150*				
Surrogate: M2PFTeDA	*1.00*		*"*	*1.45*		*69.2*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50523 - EPA 1633 Prep											
Matrix Spike Dup (BC50523-M Matrix Spike Dup				*Source sample: 25C0068-06 (SB15_0-2)					Prepared: 03/07/2025 Analyzed: 03/10/2025		
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.02*		*ug/kg dry*	*11.6*		*17.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.80*		*"*	*2.77*		*101*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.31*		*"*	*5.78*		*57.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.07*		*"*	*2.89*		*71.7*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.94*		*"*	*5.78*		*85.4*	*25-150*				
Surrogate: d5-N-EtFOSAA	*5.46*		*"*	*5.78*		*94.4*	*25-150*				
Surrogate: M2-6:2 FTS	*4.54*		*"*	*5.50*		*82.5*	*25-200*				
Surrogate: M2-8:2 FTS	*4.89*		*"*	*5.55*		*88.0*	*25-200*				
Surrogate: M9PFNA	*1.45*		*"*	*1.45*		*100*	*25-150*				
Surrogate: M2-4:2 FTS	*4.62*		*"*	*5.43*		*85.2*	*25-150*				
Surrogate: d-N-MeFOSA	*1.66*		*"*	*2.89*		*57.6*	*25-150*				
Surrogate: d-N-EtFOSA	*1.40*		*"*	*2.89*		*48.5*	*25-150*				
Surrogate: M3HFPO-DA	*11.9*		*"*	*11.6*		*103*	*25-150*				
Surrogate: d9-N-EtFOSE	*16.6*		*"*	*28.9*		*57.5*	*25-150*				
Surrogate: d7-N-MeFOSE	*15.6*		*"*	*28.9*		*54.1*	*25-150*				
Batch BC50617 - EPA 1633 Prep											
Blank (BC50617-BLK1) Blank									Prepared: 03/09/2025 Analyzed: 03/10/2025		
Perfluorobutanesulfonic acid (PFBS)	ND	1.77	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.83	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	1.86	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	4.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.91	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.93	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	7.60	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	7.68	"								
Perfluoro-n-butanoic acid (PFBA)	ND	8.00	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.56	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	4.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	4.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	4.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.88	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	ND	7.50	"								
HFPO-DA (Gen-X)	ND	8.00	"								
11CL-PF3OUdS	ND	7.56	"								

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50617 - EPA 1633 Prep											
Blank (BC50617-BLK1) Blank								Prepared: 03/09/2025 Analyzed: 03/10/2025			
9CL-PF3ONS	ND	7.48	ng/L								
ADONA	ND	7.56	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	1.94	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.92	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	5.00	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	25.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	25.0	"								
N-MeFOSE	ND	20.0	"								
N-MeFOSA	ND	2.00	"								
N-EtFOSE	ND	20.0	"								
N-EtFOSA	ND	2.00	"								
Surrogate: M3PFBS	*28.9*		"	*23.3*		*124*	*25-150*				
Surrogate: M5PFHxA	*32.6*		"	*25.0*		*130*	*25-150*				
Surrogate: M4PFHpA	*36.9*		"	*25.0*		*148*	*25-150*				
Surrogate: M3PFHxS	*28.9*		"	*23.7*		*122*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*34.2*		"	*25.0*		*137*	*25-150*				
Surrogate: M6PFDA	*15.5*		"	*12.5*		*124*	*25-150*				
Surrogate: M7PFUdA	*16.0*		"	*12.5*		*128*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*16.0*		"	*12.5*		*128*	*25-150*				
Surrogate: M2PFTeDA	*12.0*		"	*12.5*		*96.4*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.26*		"	*100*		*1.26*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*31.4*		"	*24.0*		*131*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*23.4*		"	*50.0*		*46.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*32.4*		"	*25.0*		*129*	*10-150*				
Surrogate: d3-N-MeFOSAA	*63.7*		"	*50.0*		*127*	*25-150*				
Surrogate: d5-N-EtFOSAA	*62.7*		"	*50.0*		*125*	*25-150*				
Surrogate: M2-6:2 FTS	*57.1*		"	*47.6*		*120*	*25-200*				
Surrogate: M2-8:2 FTS	*62.1*		"	*48.0*		*129*	*25-200*				
Surrogate: M9PFNA	*17.4*		"	*12.5*		*139*	*25-150*				
Surrogate: M2-4:2 FTS	*48.3*		"	*46.9*		*103*	*25-150*				
Surrogate: d-N-MeFOSA	*26.7*		"	*25.0*		*107*	*25-150*				
Surrogate: d-N-EtFOSA	*25.1*		"	*25.0*		*100*	*25-150*				
Surrogate: M3HFPO-DA	*95.2*		"	*100*		*95.2*	*25-150*				
Surrogate: d9-N-EtFOSE	*271*		"	*250*		*108*	*25-150*				
Surrogate: d7-N-MeFOSE	*262*		"	*250*		*105*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50617 - EPA 1633 Prep											
LCS (BC50617-BS1) LCS								Prepared: 03/09/2025 Analyzed: 03/10/2025			
Perfluorobutanesulfonic acid (PFBS)	38.5	1.77	ng/L	35.4		109	50-150				
Perfluorohexanoic acid (PFHxA)	40.0	2.00	"	40.0		99.9	50-150				
Perfluoroheptanoic acid (PFHpA)	39.5	2.00	"	40.0		98.8	50-150				
Perfluorohexanesulfonic acid (PFHxS)	33.1	1.83	"	36.6		90.4	50-150				
Perfluorooctanoic acid (PFOA)	43.1	2.00	"	40.0		108	50-150				
Perfluorooctanesulfonic acid (PFOS)	40.6	1.86	"	37.2		109	50-150				
Perfluorononanoic acid (PFNA)	36.9	2.00	"	40.0		92.3	50-150				
Perfluorodecanoic acid (PFDA)	38.2	2.00	"	40.0		95.4	50-150				
Perfluoroundecanoic acid (PFUnA)	41.8	2.00	"	40.0		104	50-150				
Perfluorododecanoic acid (PFDoA)	39.5	2.00	"	40.0		98.8	50-150				
Perfluorotridecanoic acid (PFTrDA)	51.0	2.00	"	40.0		127	50-150				
Perfluorotetradecanoic acid (PFTA)	38.9	2.00	"	40.0		97.3	50-150				
N-MeFOSAA	43.1	2.00	"	40.0		108	50-150				
N-EtFOSAA	46.5	2.00	"	40.0		116	50-150				
Perfluoropentanoic acid (PFPeA)	80.5	4.00	"	80.0		101	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	41.6	2.00	"	40.0		104	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	43.1	1.91	"	38.2		113	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	37.1	1.93	"	38.6		96.0	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	159	7.60	"	152		105	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	158	7.68	"	154		103	50-150				
Perfluoro-n-butanoic acid (PFBA)	102	8.00	"	160		63.9	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	77.9	3.56	"	71.2		109	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	77.7	4.00	"	80.0		97.1	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	7.96	4.00	"	80.0		9.95	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	146	4.00	"	80.0		182	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	39.0	1.88	"	37.6		104	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	171	7.50	"	150		114	50-150				
HFPO-DA (Gen-X)	89.2	8.00	"	80.0		111	50-150				
11CL-PF3OUdS	101	7.56	"	75.6		133	50-150				
9CL-PF3ONS	114	7.48	"	74.8		152	50-150	High Bias			
ADONA	112	7.56	"	75.6		149	50-150				
Perfluorododecanesulfonic acid (PFDoS)	32.1	1.94	"	38.8		82.8	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	46.3	1.92	"	38.4		121	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	79.5	5.00	"	160		49.7	50-150	Low Bias			
3-Perfluoropentyl propanoic acid (FPePA)	902	25.0	"	800		113	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	898	25.0	"	800		112	50-150				
N-MeFOSE	436	20.0	"	400		109	50-150				
N-MeFOSA	44.8	2.00	"	40.0		112	50-150				
N-EtFOSE	434	20.0	"	400		108	50-150				
N-EtFOSA	38.9	2.00	"	40.0		97.3	50-150				
Surrogate: M3PFBS	*28.9*		*"*	*23.3*		*124*	*25-150*				
Surrogate: M5PFHxA	*30.7*		*"*	*25.0*		*123*	*25-150*				
Surrogate: M4PFHpA	*32.2*		*"*	*25.0*		*129*	*25-150*				
Surrogate: M3PFHxS	*31.8*		*"*	*23.7*		*134*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*32.7*		*"*	*25.0*		*131*	*25-150*				
Surrogate: M6PFDA	*15.6*		*"*	*12.5*		*125*	*25-150*				
Surrogate: M7PFUdA	*16.3*		*"*	*12.5*		*131*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*13.3*		*"*	*12.5*		*107*	*25-150*				
Surrogate: M2PFTeDA	*10.5*		*"*	*12.5*		*84.4*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50617 - EPA 1633 Prep											
LCS (BC50617-BS1) LCS								Prepared: 03/09/2025 Analyzed: 03/10/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.02*		*ng/L*	*100*		*1.02*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*27.8*		*"*	*24.0*		*116*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*21.7*		*"*	*50.0*		*43.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*31.2*		*"*	*25.0*		*125*	*10-150*				
Surrogate: d3-N-MeFOSAA	*67.1*		*"*	*50.0*		*134*	*25-150*				
Surrogate: d5-N-EtFOSAA	*70.9*		*"*	*50.0*		*142*	*25-150*				
Surrogate: M2-6:2 FTS	*68.7*		*"*	*47.6*		*145*	*25-200*				
Surrogate: M2-8:2 FTS	*80.0*		*"*	*48.0*		*167*	*25-200*				
Surrogate: M9PFNA	*16.5*		*"*	*12.5*		*132*	*25-150*				
Surrogate: M2-4:2 FTS	*57.4*		*"*	*46.9*		*122*	*25-150*				
Surrogate: d-N-MeFOSA	*25.9*		*"*	*25.0*		*104*	*25-150*				
Surrogate: d-N-EtFOSA	*22.7*		*"*	*25.0*		*90.9*	*25-150*				
Surrogate: M3HFPO-DA	*89.8*		*"*	*100*		*89.8*	*25-150*				
Surrogate: d9-N-EtFOSE	*239*		*"*	*250*		*95.6*	*25-150*				
Surrogate: d7-N-MeFOSE	*247*		*"*	*250*		*98.7*	*25-150*				
LCS (BC50617-BS2) LCS								Prepared: 03/09/2025 Analyzed: 03/11/2025			
Perfluorobutanesulfonic acid (PFBS)	3.07	1.77	ng/L	3.54		86.8	50-150				
Perfluorohexanoic acid (PFHxA)	3.78	2.00	"	4.00		94.5	50-150				
Perfluoroheptanoic acid (PFHpA)	3.47	2.00	"	4.00		86.7	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.71	1.83	"	3.66		101	50-150				
Perfluorooctanoic acid (PFOA)	3.87	2.00	"	4.00		96.6	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.99	1.86	"	3.72		107	50-150				
Perfluorononanoic acid (PFNA)	3.72	2.00	"	4.00		93.0	50-150				
Perfluorodecanoic acid (PFDA)	3.92	2.00	"	4.00		97.9	50-150				
Perfluoroundecanoic acid (PFUnA)	3.86	2.00	"	4.00		96.5	50-150				
Perfluorododecanoic acid (PFDoA)	3.76	2.00	"	4.00		94.0	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.50	2.00	"	4.00		113	50-150				
Perfluorotetradecanoic acid (PFTA)	3.44	2.00	"	4.00		86.0	50-150				
N-MeFOSAA	5.44	2.00	"	4.00		136	50-150				
N-EtFOSAA	4.29	2.00	"	4.00		107	50-150				
Perfluoropentanoic acid (PFPeA)	7.95	4.00	"	8.00		99.4	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	3.56	2.00	"	4.00		88.9	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.68	1.91	"	3.82		96.3	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	2.84	1.93	"	3.86		73.5	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	16.4	7.60	"	15.2		108	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	14.7	7.68	"	15.4		95.7	50-150				
Perfluoro-n-butanoic acid (PFBA)	13.8	8.00	"	16.0		86.0	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.85	3.56	"	7.12		110	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	6.17	4.00	"	8.00		77.1	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	0.992	4.00	"	8.00		12.4	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	14.5	4.00	"	8.00		181	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	4.08	1.88	"	3.76		108	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	15.5	7.50	"	15.0		103	50-150				
HFPO-DA (Gen-X)	9.35	8.00	"	8.00		117	50-150				
11CL-PF3OUdS	8.96	7.56	"	7.56		118	50-150				
9CL-PF3ONS	9.49	7.48	"	7.48		127	50-150				
ADONA	10.2	7.56	"	7.56		134	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50617 - EPA 1633 Prep											
LCS (BC50617-BS2) LCS								Prepared: 03/09/2025 Analyzed: 03/11/2025			
Perfluorododecanesulfonic acid (PFDoS)	2.59	1.94	ng/L	3.88		66.8	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	4.07	1.92	"	3.84		106	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	8.67	5.00	"	16.0		54.2	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	82.8	25.0	"	80.0		104	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	84.1	25.0	"	80.0		105	50-150				
N-MeFOSE	43.0	20.0	"	40.0		107	50-150				
N-MeFOSA	5.42	2.00	"	4.00		136	50-150				
N-EtFOSE	38.9	20.0	"	40.0		97.2	50-150				
N-EtFOSA	3.88	2.00	"	4.00		96.9	50-150				
Surrogate: M3PFBS	*30.4*		*"*	*23.3*		*130*	*25-150*				
Surrogate: M5PFHxA	*34.6*		*"*	*25.0*		*138*	*25-150*				
Surrogate: M4PFHpA	*40.0*		*"*	*25.0*		*160*	*25-150*				
Surrogate: M3PFHxS	*31.3*		*"*	*23.7*		*132*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*34.8*		*"*	*25.0*		*139*	*25-150*				
Surrogate: M6PFDA	*18.7*		*"*	*12.5*		*150*	*25-150*				
Surrogate: M7PFUdA	*18.9*		*"*	*12.5*		*151*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*16.8*		*"*	*12.5*		*134*	*25-150*				
Surrogate: M2PFTeDA	*11.8*		*"*	*12.5*		*94.7*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.43*		*"*	*100*		*1.43*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*39.2*		*"*	*24.0*		*164*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*26.5*		*"*	*50.0*		*53.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*41.0*		*"*	*25.0*		*164*	*10-150*				
Surrogate: d3-N-MeFOSAA	*83.6*		*"*	*50.0*		*167*	*25-150*				
Surrogate: d5-N-EtFOSAA	*95.3*		*"*	*50.0*		*191*	*25-150*				
Surrogate: M2-6:2 FTS	*57.0*		*"*	*47.6*		*120*	*25-200*				
Surrogate: M2-8:2 FTS	*82.5*		*"*	*48.0*		*172*	*25-200*				
Surrogate: M9PFNA	*18.4*		*"*	*12.5*		*147*	*25-150*				
Surrogate: M2-4:2 FTS	*53.1*		*"*	*46.9*		*113*	*25-150*				
Surrogate: d-N-MeFOSA	*30.1*		*"*	*25.0*		*120*	*25-150*				
Surrogate: d-N-EtFOSA	*29.9*		*"*	*25.0*		*120*	*25-150*				
Surrogate: M3HFPO-DA	*108*		*"*	*100*		*108*	*25-150*				
Surrogate: d9-N-EtFOSE	*287*		*"*	*250*		*115*	*25-150*				
Surrogate: d7-N-MeFOSE	*294*		*"*	*250*		*118*	*25-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50436 - EPA SW846-3510C Low Level											
Blank (BC50436-BLK1) Blank							Prepared: 03/06/2025 Analyzed: 03/07/2025				
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Chlordane, total	ND	0.200	"								
Surrogate: Decachlorobiphenyl	*0.101*		*"*	*0.200*		*50.6*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0939*		*"*	*0.200*		*46.9*	*30-150*				
LCS (BC50436-BS1) LCS							Prepared: 03/06/2025 Analyzed: 03/07/2025				
4,4'-DDD	0.0888	0.00400	ug/L	0.100		88.8	40-140			20	
4,4'-DDE	0.0817	0.00400	"	0.100		81.7	40-140			20	
4,4'-DDT	0.0956	0.00400	"	0.100		95.6	40-140			20	
Aldrin	0.0659	0.00400	"	0.100		65.9	40-140			20	
alpha-BHC	0.0714	0.00400	"	0.100		71.4	40-140			20	
alpha-Chlordane	0.0745	0.00400	"	0.100		74.5	40-140			20	
beta-BHC	0.0812	0.00400	"	0.100		81.2	40-140			20	
delta-BHC	0.0677	0.00400	"	0.100		67.7	40-140			20	
Dieldrin	0.0880	0.00200	"	0.100		88.0	40-140			20	
Endosulfan I	0.0844	0.00400	"	0.100		84.4	40-140			20	
Endosulfan II	0.0970	0.00400	"	0.100		97.0	40-140			20	
Endosulfan sulfate	0.0955	0.00400	"	0.100		95.5	40-140			20	
Endrin	0.0957	0.00400	"	0.100		95.7	40-140			20	
Endrin aldehyde	0.123	0.0100	"	0.100		123	40-140			20	
Endrin ketone	0.104	0.0100	"	0.100		104	40-140			20	
gamma-BHC (Lindane)	0.0776	0.00400	"	0.100		77.6	40-140			20	
gamma-Chlordane	0.0793	0.0100	"	0.100		79.3	40-140			20	
Heptachlor	0.0788	0.00400	"	0.100		78.8	40-140			20	
Heptachlor epoxide	0.0838	0.00400	"	0.100		83.8	40-140			20	
Methoxychlor	0.102	0.00400	"	0.100		102	40-140			20	
Surrogate: Decachlorobiphenyl	*0.134*		*"*	*0.200*		*66.8*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.123*		*"*	*0.200*		*61.6*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50616 - EPA 3550C											
Blank (BC50616-BLK1) Blank							Prepared & Analyzed: 03/10/2025				
4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								
Surrogate: Decachlorobiphenyl	*0.0493*		*"*	*0.0664*		*74.1*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0370*		*"*	*0.0664*		*55.6*	*30-150*				
LCS (BC50616-BS1) LCS							Prepared: 03/10/2025 Analyzed: 03/11/2025				
4,4'-DDD	0.0249	0.00164	mg/kg wet	0.0332		75.1	40-140				
4,4'-DDE	0.0229	0.00164	"	0.0332		68.9	40-140				
4,4'-DDT	0.0261	0.00164	"	0.0332		78.5	40-140				
Aldrin	0.0237	0.00164	"	0.0332		71.4	40-140				
alpha-BHC	0.0263	0.00164	"	0.0332		79.2	40-140				
alpha-Chlordane	0.0240	0.00164	"	0.0332		72.2	40-140				
beta-BHC	0.0293	0.00164	"	0.0332		88.3	40-140				
delta-BHC	0.0246	0.00164	"	0.0332		74.1	40-140				
Dieldrin	0.0239	0.00164	"	0.0332		71.9	40-140				
Endosulfan I	0.0248	0.00164	"	0.0332		74.8	40-140				
Endosulfan II	0.0265	0.00164	"	0.0332		79.8	40-140				
Endosulfan sulfate	0.0252	0.00164	"	0.0332		76.0	40-140				
Endrin	0.0259	0.00164	"	0.0332		78.1	40-140				
Endrin aldehyde	0.0285	0.00164	"	0.0332		85.7	40-140				
Endrin ketone	0.0267	0.00164	"	0.0332		80.4	40-140				
gamma-BHC (Lindane)	0.0276	0.00164	"	0.0332		83.0	40-140				
gamma-Chlordane	0.0244	0.00164	"	0.0332		73.3	40-140				
Heptachlor	0.0276	0.00164	"	0.0332		83.1	40-140				
Heptachlor epoxide	0.0252	0.00164	"	0.0332		75.9	40-140				
Methoxychlor	0.0286	0.00164	"	0.0332		86.2	40-140				
Surrogate: Decachlorobiphenyl	*0.0434*		*"*	*0.0664*		*65.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0401*		*"*	*0.0664*		*60.4*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50710 - EPA 3550C											
Blank (BC50710-BLK1) Blank							Prepared & Analyzed: 03/11/2025				
4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								
Surrogate: Decachlorobiphenyl	*0.0503*		*"*	*0.0664*		*75.7*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0418*		*"*	*0.0664*		*62.9*	*30-150*				
LCS (BC50710-BS1) LCS							Prepared & Analyzed: 03/11/2025				
4,4'-DDD	0.0225	0.00164	mg/kg wet	0.0332		67.6	40-140				
4,4'-DDE	0.0186	0.00164	"	0.0332		55.9	40-140				
4,4'-DDT	0.0197	0.00164	"	0.0332		59.2	40-140				
Aldrin	0.0178	0.00164	"	0.0332		53.5	40-140				
alpha-BHC	0.0203	0.00164	"	0.0332		61.2	40-140				
alpha-Chlordane	0.0186	0.00164	"	0.0332		56.0	40-140				
beta-BHC	0.0212	0.00164	"	0.0332		63.9	40-140				
delta-BHC	0.0174	0.00164	"	0.0332		52.3	40-140				
Dieldrin	0.0187	0.00164	"	0.0332		56.3	40-140				
Endosulfan I	0.0192	0.00164	"	0.0332		57.7	40-140				
Endosulfan II	0.0221	0.00164	"	0.0332		66.5	40-140				
Endosulfan sulfate	0.0223	0.00164	"	0.0332		67.1	40-140				
Endrin	0.0201	0.00164	"	0.0332		60.6	40-140				
Endrin aldehyde	0.0250	0.00164	"	0.0332		75.3	40-140				
Endrin ketone	0.0244	0.00164	"	0.0332		73.5	40-140				
gamma-BHC (Lindane)	0.0206	0.00164	"	0.0332		62.0	40-140				
gamma-Chlordane	0.0187	0.00164	"	0.0332		56.4	40-140				
Heptachlor	0.0199	0.00164	"	0.0332		59.8	40-140				
Heptachlor epoxide	0.0187	0.00164	"	0.0332		56.3	40-140				
Methoxychlor	0.0240	0.00164	"	0.0332		72.4	40-140				
Surrogate: Decachlorobiphenyl	*0.0469*		*"*	*0.0664*		*70.6*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0383*		*"*	*0.0664*		*57.7*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Batch BC50710 - EPA 3550C

Matrix Spike (BC50710-MS1) Matrix Spike *Source sample: 25C0068-06 (SB15_0-2) Prepared & Analyzed: 03/11/2025

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
4,4'-DDD	0.0306	0.00191	mg/kg dry	0.0386	ND	79.4	30-150				
4,4'-DDE	0.0292	0.00191	"	0.0386	ND	75.6	30-150				
4,4'-DDT	0.0339	0.00191	"	0.0386	ND	88.0	30-150				
Aldrin	0.0284	0.00191	"	0.0386	ND	73.6	30-150				
alpha-BHC	0.0300	0.00191	"	0.0386	ND	77.6	30-150				
alpha-Chlordane	0.0302	0.00191	"	0.0386	ND	78.3	30-150				
beta-BHC	0.0312	0.00191	"	0.0386	ND	80.7	30-150				
delta-BHC	0.0280	0.00191	"	0.0386	ND	72.6	30-150				
Dieldrin	0.0307	0.00191	"	0.0386	ND	79.5	30-150				
Endosulfan I	0.0301	0.00191	"	0.0386	ND	77.9	30-150				
Endosulfan II	0.0340	0.00191	"	0.0386	ND	88.1	30-150				
Endosulfan sulfate	0.0329	0.00191	"	0.0386	ND	85.4	30-150				
Endrin	0.0322	0.00191	"	0.0386	ND	83.4	30-150				
Endrin aldehyde	0.0393	0.00191	"	0.0386	ND	102	30-150				
Endrin ketone	0.0337	0.00191	"	0.0386	ND	87.4	30-150				
gamma-BHC (Lindane)	0.0302	0.00191	"	0.0386	ND	78.3	30-150				
gamma-Chlordane	0.0286	0.00191	"	0.0386	ND	74.2	30-150				
Heptachlor	0.0339	0.00191	"	0.0386	ND	87.9	30-150				
Heptachlor epoxide	0.0305	0.00191	"	0.0386	ND	79.0	30-150				
Methoxychlor	0.0372	0.00191	"	0.0386	ND	96.3	30-150				
Surrogate: Decachlorobiphenyl	*0.0646*		*"*	*0.0772*		*83.7*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0584*		*"*	*0.0772*		*75.7*	*30-150*				

Matrix Spike Dup (BC50710-! Matrix Spike Dup *Source sample: 25C0068-06 (SB15_0-2) Prepared & Analyzed: 03/11/2025

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
4,4'-DDD	0.0297	0.00191	mg/kg dry	0.0386	ND	77.1	30-150		2.94	30	
4,4'-DDE	0.0288	0.00191	"	0.0386	ND	74.7	30-150		1.21	30	
4,4'-DDT	0.0319	0.00191	"	0.0386	ND	82.6	30-150		6.33	30	
Aldrin	0.0279	0.00191	"	0.0386	ND	72.2	30-150		1.85	30	
alpha-BHC	0.0292	0.00191	"	0.0386	ND	75.7	30-150		2.54	30	
alpha-Chlordane	0.0298	0.00191	"	0.0386	ND	77.2	30-150		1.50	30	
beta-BHC	0.0305	0.00191	"	0.0386	ND	78.9	30-150		2.29	30	
delta-BHC	0.0273	0.00191	"	0.0386	ND	70.8	30-150		2.48	30	
Dieldrin	0.0302	0.00191	"	0.0386	ND	78.4	30-150		1.48	30	
Endosulfan I	0.0297	0.00191	"	0.0386	ND	77.0	30-150		1.18	30	
Endosulfan II	0.0325	0.00191	"	0.0386	ND	84.4	30-150		4.37	30	
Endosulfan sulfate	0.0322	0.00191	"	0.0386	ND	83.4	30-150		2.35	30	
Endrin	0.0316	0.00191	"	0.0386	ND	81.8	30-150		1.98	30	
Endrin aldehyde	0.0376	0.00191	"	0.0386	ND	97.5	30-150		4.26	30	
Endrin ketone	0.0330	0.00191	"	0.0386	ND	85.4	30-150		2.29	30	
gamma-BHC (Lindane)	0.0295	0.00191	"	0.0386	ND	76.5	30-150		2.34	30	
gamma-Chlordane	0.0283	0.00191	"	0.0386	ND	73.4	30-150		1.06	30	
Heptachlor	0.0329	0.00191	"	0.0386	ND	85.2	30-150		3.10	30	
Heptachlor epoxide	0.0300	0.00191	"	0.0386	ND	77.6	30-150		1.70	30	
Methoxychlor	0.0372	0.00191	"	0.0386	ND	96.3	30-150		0.0156	30	
Surrogate: Decachlorobiphenyl	*0.0690*		*"*	*0.0772*		*89.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0599*		*"*	*0.0772*		*77.6*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50548 - EPA SW846-3510C Low Level											
Blank (BC50548-BLK1) Blank							Prepared & Analyzed: 03/07/2025				
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.0890*		*"*	*0.200*		*44.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.122*		*"*	*0.200*		*61.0*	*30-120*				
LCS (BC50548-BS2) LCS							Prepared & Analyzed: 03/07/2025				
Aroclor 1016	0.594	0.0500	ug/L	1.00		59.4	40-120				
Aroclor 1260	0.476	0.0500	"	1.00		47.6	40-120				
Surrogate: Tetrachloro-m-xylene	*0.0700*		*"*	*0.200*		*35.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0790*		*"*	*0.200*		*39.5*	*30-120*				
Batch BC50589 - EPA 3550C											
Blank (BC50589-BLK2) Blank							Prepared: 03/08/2025 Analyzed: 03/09/2025				
Aroclor 1016	ND	0.0164	mg/kg wet								
Aroclor 1221	ND	0.0164	"								
Aroclor 1232	ND	0.0164	"								
Aroclor 1242	ND	0.0164	"								
Aroclor 1248	ND	0.0164	"								
Aroclor 1254	ND	0.0164	"								
Aroclor 1260	ND	0.0164	"								
Total PCBs	ND	0.0164	"								
Surrogate: Tetrachloro-m-xylene	*0.0289*		*"*	*0.0656*		*44.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0230*		*"*	*0.0656*		*35.0*	*30-120*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50589 - EPA 3550C											
LCS (BC50589-BS2) LCS								Prepared: 03/08/2025 Analyzed: 03/09/2025			
Aroclor 1016	0.153	0.0164	mg/kg wet	0.328		46.6	40-130				
Aroclor 1260	0.143	0.0164	"	0.328		43.6	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0239*		*"*	*0.0656*		*36.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0220*		*"*	*0.0656*		*33.5*	*30-120*				
Matrix Spike (BC50589-MS2) Matrix Spike *Source sample: 25C0068-06 (SB15_0-2)								Prepared: 03/08/2025 Analyzed: 03/09/2025			
Aroclor 1016	0.201	0.0190	mg/kg dry	0.381	ND	52.7	40-140				
Aroclor 1260	0.183	0.0190	"	0.381	ND	48.0	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0339*		*"*	*0.0762*		*44.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0270*		*"*	*0.0762*		*35.5*	*30-120*				
Matrix Spike Dup (BC50589-M Matrix Spike Dup *Source sample: 25C0068-06 (SB15_0-2)								Prepared: 03/08/2025 Analyzed: 03/09/2025			
Aroclor 1016	0.198	0.0190	mg/kg dry	0.381	ND	52.0	40-140		1.22	50	
Aroclor 1260	0.184	0.0190	"	0.381	ND	48.3	40-140		0.623	50	
Surrogate: Tetrachloro-m-xylene	*0.0331*		*"*	*0.0762*		*43.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0263*		*"*	*0.0762*		*34.5*	*30-120*				
Batch BC50615 - EPA 3550C											
Blank (BC50615-BLK1) Blank								Prepared & Analyzed: 03/10/2025			
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	*0.0445*		*"*	*0.0664*		*67.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0332*		*"*	*0.0664*		*50.0*	*30-120*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50615 - EPA 3550C											
LCS (BC50615-BS2) LCS							Prepared & Analyzed: 03/10/2025				
Aroclor 1016	0.304	0.0166	mg/kg wet	0.332		91.6	40-130				
Aroclor 1260	0.282	0.0166	"	0.332		84.9	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0498*		*"*	*0.0664*		*75.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0395*		*"*	*0.0664*		*59.5*	*30-120*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50076 - EPA 8151A											
Blank (BC50076-BLK1) Blank							Prepared & Analyzed: 03/04/2025				
2,4,5-T	ND	5.00	ug/L								
2,4,5-TP (Silvex)	ND	5.00	"								
2,4-D	ND	5.00	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*134*		*"*	*125*		*108*	*30-150*				
LCS (BC50076-BS1) LCS							Prepared & Analyzed: 03/04/2025				
2,4,5-T	18.2	5.00	ug/L	20.0		91.2	10-140				
2,4,5-TP (Silvex)	20.2	5.00	"	20.0		101	10-139				
2,4-D	18.5	5.00	"	20.0		92.5	10-140				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*146*		*"*	*125*		*117*	*30-150*				
LCS Dup (BC50076-BSD1) LCS Dup							Prepared & Analyzed: 03/04/2025				
2,4,5-T	17.0	5.00	ug/L	20.0		85.0	10-140		7.09	30	
2,4,5-TP (Silvex)	19.0	5.00	"	20.0		95.0	10-139		6.37	30	
2,4-D	17.8	5.00	"	20.0		88.8	10-140		4.14	30	
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*137*		*"*	*125*		*110*	*30-150*				
Batch BC50598 - EPA 3550C/8151A											
Blank (BC50598-BLK1) Blank							Prepared: 03/09/2025 Analyzed: 03/10/2025				
2,4,5-T	ND	0.0199	mg/kg wet								
2,4,5-TP (Silvex)	ND	0.0199	"								
2,4-D	ND	0.0199	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.510*		*"*	*0.415*		*123*	*21-150*				
LCS (BC50598-BS1) LCS							Prepared: 03/09/2025 Analyzed: 03/11/2025				
2,4,5-T	0.0548	0.0199	mg/kg wet	0.0664		82.5	10-120				
2,4,5-TP (Silvex)	0.0540	0.0199	"	0.0664		81.2	10-120				
2,4-D	0.0540	0.0199	"	0.0664		81.2	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.358*		*"*	*0.415*		*86.2*	*21-150*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50656 - EPA 3550C/8151A											
Blank (BC50656-BLK1) Blank							Prepared & Analyzed: 03/10/2025				
2,4,5-T	ND	0.0199	mg/kg wet								
2,4,5-TP (Silvex)	ND	0.0199	"								
2,4-D	ND	0.0199	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.196*		*"*	*0.415*		*47.2*	*21-150*				
LCS (BC50656-BS1) LCS							Prepared & Analyzed: 03/10/2025				
2,4,5-T	0.0498	0.0199	mg/kg wet	0.0664		75.0	10-120				
2,4,5-TP (Silvex)	0.0507	0.0199	"	0.0664		76.2	10-120				
2,4-D	0.0449	0.0199	"	0.0664		67.5	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.349*		*"*	*0.415*		*84.0*	*21-150*				
Matrix Spike (BC50656-MS1) Matrix Spike *Source sample: 25C0068-06 (SB15_0-2)							Prepared & Analyzed: 03/10/2025				
2,4,5-T	0.0405	0.0232	mg/kg dry	0.0772	ND	52.5	10-120				
2,4,5-TP (Silvex)	0.0453	0.0232	"	0.0772	ND	58.8	10-120				
2,4-D	0.0444	0.0232	"	0.0772	ND	57.5	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.402*		*"*	*0.482*		*83.4*	*21-150*				
Matrix Spike Dup (BC50656-! Matrix Spike Dup *Source sample: 25C0068-06 (SB15_0-2)							Prepared & Analyzed: 03/10/2025				
2,4,5-T	0.0502	0.0232	mg/kg dry	0.0772	ND	65.0	10-120		21.3	35	
2,4,5-TP (Silvex)	0.0550	0.0232	"	0.0772	ND	71.2	10-120		19.2	35	
2,4-D	0.0511	0.0232	"	0.0772	ND	66.2	10-118		14.1	35	
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.431*		*"*	*0.482*		*89.4*	*21-150*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50383 - EPA 3015A											
Blank (BC50383-BLK1) Blank								Prepared & Analyzed: 03/06/2025			
Aluminum	ND	0.0556	mg/L								
Barium	ND	0.0278	"								
Calcium	ND	0.0556	"								
Chromium	ND	0.00556	"								
Cobalt	ND	0.00444	"								
Copper	ND	0.0222	"								
Iron	ND	0.278	"								
Lead	ND	0.00556	"								
Magnesium	ND	0.0556	"								
Manganese	ND	0.00556	"								
Nickel	ND	0.0111	"								
Potassium	ND	0.0556	"								
Silver	ND	0.00556	"								
Sodium	ND	0.556	"								
Vanadium	ND	0.0111	"								
Zinc	ND	0.0278	"								
LCS (BC50383-BS1) LCS								Prepared & Analyzed: 03/06/2025			
Aluminum	1.95		ug/mL	2.00		97.7	80-120				
Barium	2.12		"	2.00		106	80-120				
Calcium	2.47		"	1.00		247	80-120	High Bias			
Chromium	0.213		"	0.200		107	80-120				
Cobalt	0.538		"	0.500		108	80-120				
Copper	0.261		"	0.250		104	80-120				
Iron	1.02		"	1.00		102	80-120				
Lead	0.528		"	0.500		106	80-120				
Magnesium	1.05		"	1.00		105	80-120				
Manganese	0.527		"	0.500		105	80-120				
Nickel	0.536		"	0.500		107	80-120				
Potassium	0.913		"	1.00		91.3	80-120				
Silver	0.0495		"	0.0500		99.0	80-120				
Sodium	1.15		"	1.00		115	80-120				
Vanadium	0.510		"	0.500		102	80-120				
Zinc	0.599		"	0.500		120	80-120				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50447 - EPA 3050B											
Blank (BC50447-BLK1) Blank								Prepared: 03/06/2025 Analyzed: 03/07/2025			
Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	ND	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	ND	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	1.67	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								
Duplicate (BC50447-DUP1) Duplicate *Source sample: 25C0068-06 (SB15_0-2)								Prepared: 03/06/2025 Analyzed: 03/07/2025			
Aluminum	12300	4.84	mg/kg dry		11800				4.23	35	
Antimony	ND	2.42	"		ND					35	
Arsenic	4.32	1.45	"		4.37				1.34	35	
Barium	73.2	2.42	"		65.6				10.9	35	
Beryllium	0.436	0.049	"		0.414				5.01	35	
Cadmium	ND	0.290	"		ND					35	
Calcium	1340	4.84	"		1360				1.94	35	
Chromium	28.0	0.484	"		27.9				0.277	35	
Cobalt	8.32	0.387	"		7.99				4.03	35	
Copper	26.5	1.94	"		24.5				7.88	35	
Iron	16700	24.2	"		17300				3.40	35	
Lead	38.7	0.484	"		33.0				16.1	35	
Magnesium	3200	4.84	"		3140				1.88	35	
Manganese	366	0.484	"		306				18.0	35	
Nickel	24.6	0.964	"		23.9				2.60	35	
Potassium	1110	4.84	"		1110				0.313	35	
Selenium	ND	2.42	"		ND					35	
Silver	ND	0.488	"		ND					35	
Sodium	201	48.4	"		224				11.1	35	
Thallium	ND	1.94	"		ND					35	
Vanadium	31.1	0.964	"		30.9				0.562	35	
Zinc	89.8	2.41	"		84.8				5.82	35	

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50447 - EPA 3050B											
Matrix Spike (BC50447-MS1) Matrix Spike	*Source sample: 25C0068-06 (SB15_0-2)							Prepared: 03/06/2025 Analyzed: 03/07/2025			
Aluminum	11800	4.84	mg/kg dry	194	11800	19.4	75-125	Low Bias			
Antimony	6.24	2.42	"	24.2	ND	25.8	75-125	Low Bias			
Arsenic	176	1.45	"	194	4.37	88.7	75-125				
Barium	246	2.42	"	194	65.6	93.4	75-125				
Beryllium	4.80	0.049	"	4.84	0.414	90.6	75-125				
Cadmium	4.41	0.290	"	4.84	ND	91.2	75-125				
Calcium	1410	4.84	"	96.8	1360	49.6	75-125	Low Bias			
Chromium	45.5	0.484	"	19.4	27.9	91.1	75-125				
Cobalt	51.2	0.387	"	48.4	7.99	89.3	75-125				
Copper	48.4	1.94	"	24.2	24.5	98.7	75-125				
Iron	16400	24.2	"	96.8	17300	NR	75-125	Low Bias			
Lead	78.3	0.484	"	48.4	33.0	93.6	75-125				
Magnesium	3100	4.84	"	96.8	3140	NR	75-125	Low Bias			
Manganese	384	0.484	"	48.4	306	161	75-125	High Bias			
Nickel	67.0	0.964	"	48.4	23.9	89.0	75-125				
Potassium	1200	4.84	"	96.8	1110	95.8	75-125				
Selenium	173	2.42	"	194	ND	89.6	75-125				
Silver	4.29	0.488	"	4.84	ND	88.6	75-125				
Sodium	284	48.4	"	96.8	224	61.5	75-125	Low Bias			
Thallium	170	1.94	"	194	ND	87.7	75-125				
Vanadium	73.4	0.964	"	48.4	30.9	87.7	75-125				
Zinc	127	2.41	"	48.4	84.8	87.5	75-125				
Post Spike (BC50447-PS1) Post Spike	*Source sample: 25C0068-06 (SB15_0-2)							Prepared: 03/06/2025 Analyzed: 03/07/2025			
Aluminum	122		ug/mL	2.00	122	6.82	75-125	Low Bias			
Antimony	0.235		"	0.250	-0.004	94.1	75-125				
Arsenic	1.89		"	2.00	0.045	92.2	75-125				
Barium	2.54		"	2.00	0.678	93.0	75-125				
Beryllium	0.050		"	0.0500	0.004	90.9	75-125				
Cadmium	0.046		"	0.0500	0.002	89.0	75-125				
Calcium	14.5		"	1.00	14.1	43.8	75-125	Low Bias			
Chromium	0.467		"	0.200	0.288	89.3	75-125				
Cobalt	0.539		"	0.500	0.083	91.3	75-125				
Copper	0.496		"	0.250	0.253	97.2	75-125				
Iron	177		"	1.00	179	NR	75-125	Low Bias			
Lead	0.786		"	0.500	0.341	89.1	75-125				
Magnesium	32.3		"	1.00	32.4	NR	75-125	Low Bias			
Manganese	3.56		"	0.500	3.16	80.2	75-125				
Nickel	0.703		"	0.500	0.247	91.2	75-125				
Potassium	12.0		"	1.00	11.5	48.7	75-125	Low Bias			
Selenium	1.87		"	2.00	0.002	93.4	75-125				
Silver	0.048		"	0.0500	-0.001	95.0	75-125				
Sodium	3.14		"	1.00	2.31	82.4	75-125				
Thallium	1.78		"	2.00	-0.003	89.1	75-125				
Vanadium	0.772		"	0.500	0.319	90.6	75-125				
Zinc	1.31		"	0.500	0.876	86.6	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50447 - EPA 3050B											
Reference (BC50447-SRM1) Reference									Prepared: 03/06/2025 Analyzed: 03/07/2025		
Aluminum	7290	4.17	mg/kg wet	7680		94.9	47.4-130.2				
Antimony	44.0	2.08	"	201		21.9	0-100				
Arsenic	139	1.25	"	181		76.7	66.3-98				
Barium	176	2.08	"	211		83.6	73.9-107.1				
Beryllium	227	0.042	"	270		84.1	73-104.4				
Cadmium	169	0.250	"	221		76.6	70.6-101.8				
Calcium	3850	4.17	"	4280		89.9	77.3-111				
Chromium	126	0.417	"	149		84.8	71.8-105.4				
Cobalt	123	0.333	"	142		86.5	73.2-104.2				
Copper	235	1.67	"	264		89.2	73.5-104.2				
Iron	6340	20.8	"	7360		86.1	55.4-130.3				
Lead	89.2	0.417	"	106		84.2	76.1-109.4				
Magnesium	1950	4.17	"	2170		89.7	68.7-112				
Manganese	223	0.417	"	270		82.8	73-107.8				
Nickel	151	0.830	"	177		85.1	71.8-103.4				
Potassium	2080	4.17	"	2340		89.0	62.8-113.7				
Selenium	117	2.08	"	139		84.1	70-107.9				
Silver	48.4	0.420	"	59.9		80.8	72.8-110.7				
Sodium	264	41.7	"	306		86.4	66-113.4				
Thallium	160	1.67	"	205		78.0	71.7-106.8				
Vanadium	128	0.830	"	155		82.8	69-107.7				
Zinc	323	2.08	"	389		83.0	70.4-106.9				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50387 - EPA 3015A											
Blank (BC50387-BLK1) Blank								Prepared & Analyzed: 03/06/2025			
Antimony	ND	1.11	ug/L								
Arsenic	ND	1.11	"								
Beryllium	ND	0.333	"								
Cadmium	ND	0.556	"								
Selenium	ND	1.11	"								
Thallium	ND	1.11	"								
LCS (BC50387-BS1) LCS								Prepared & Analyzed: 03/06/2025			
Antimony	72.3		ug/L	50.0		145	80-120	High Bias			
Arsenic	55.7		"	50.0		111	80-120				
Beryllium	48.4		"	50.0		96.9	80-120				
Cadmium	67.7		"	50.0		135	80-120	High Bias			
Selenium	61.2		"	50.0		122	80-120	High Bias			
Thallium	55.3		"	50.0		111	80-120				
Duplicate (BC50387-DUP1) Duplicate *Source sample: 25C0068-01 (SOFB02_030325)								Prepared & Analyzed: 03/06/2025			
Antimony	ND	1.11	ug/L		ND					20	
Arsenic	ND	1.11	"		ND					20	
Beryllium	ND	0.333	"		ND					20	
Cadmium	ND	0.556	"		ND					20	
Selenium	1.87	1.11	"		1.11				50.8	20	Non-dir.
Thallium	ND	1.11	"		ND					20	
Matrix Spike (BC50387-MS1) Matrix Spike *Source sample: 25C0068-01 (SOFB02_030325)								Prepared & Analyzed: 03/06/2025			
Antimony	45.5		ug/L	50.0	-0.271	91.0	75-125				
Arsenic	45.9		"	50.0	0.127	91.6	75-125				
Beryllium	45.6		"	50.0	0.118	91.0	75-125				
Cadmium	42.1		"	50.0	0.108	84.0	75-125				
Selenium	49.7		"	50.0	1.00	97.5	75-125				
Thallium	43.9		"	50.0	0.075	87.6	75-125				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50367 - EPA SW846-7470A												
Blank (BC50367-BLK1)	Blank								Prepared & Analyzed: 03/06/2025			
Mercury		ND	0.0002	mg/L								
LCS (BC50367-BS1)	LCS								Prepared & Analyzed: 03/06/2025			
Mercury		0.0019353	0.0002	mg/L	0.00200		96.8	80-120				
Batch BC50423 - EPA 7473 soil												
Blank (BC50423-BLK1)	Blank								Prepared: 03/06/2025 Analyzed: 03/07/2025			
Mercury		ND	0.0300	mg/kg wet								
Duplicate (BC50423-DUP1)	Duplicate	*Source sample: 25C0068-06 (SB15_0-2)							Prepared: 03/06/2025 Analyzed: 03/07/2025			
Mercury		0.0362	0.0348	mg/kg dry		0.0416				13.7	35	
Matrix Spike (BC50423-MS1)	Matrix Spike	*Source sample: 25C0068-06 (SB15_0-2)							Prepared: 03/06/2025 Analyzed: 03/07/2025			
Mercury		0.453		mg/kg	1.00	0.0358	41.8	75-125	Low Bias			
Reference (BC50423-SRM1)	Reference								Prepared: 03/06/2025 Analyzed: 03/07/2025			
Mercury		24.794		mg/kg	24.0		103	55.8-109.6				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50139 - Analysis Preparation												
Blank (BC50139-BLK1)	Blank								Prepared & Analyzed: 03/03/2025			
Chromium, Hexavalent		ND	0.0100	mg/L								
LCS (BC50139-BS1)	LCS								Prepared & Analyzed: 03/03/2025			
Chromium, Hexavalent		0.450	0.0100	mg/L	0.500		90.0	85-115				
Batch BC50347 - Analysis Preparation												
Blank (BC50347-BLK1)	Blank								Prepared & Analyzed: 03/05/2025			
Cyanide, total		ND	0.0100	mg/L								
LCS (BC50347-BS1)	LCS								Prepared & Analyzed: 03/05/2025			
Cyanide, total		0.0876	0.0100	mg/L	0.100		87.6	80-120				
Batch BC50458 - Analysis Preparation Soil												
Blank (BC50458-BLK1)	Blank								Prepared & Analyzed: 03/06/2025			
Cyanide, total		ND	0.500	mg/kg wet								
Duplicate (BC50458-DUP1)	Duplicate	*Source sample: 25C0068-06 (SB15_0-2)							Prepared & Analyzed: 03/06/2025			
Cyanide, total		ND	0.581	mg/kg dry		ND					15	
Matrix Spike (BC50458-MS1)	Matrix Spike	*Source sample: 25C0068-06 (SB15_0-2)							Prepared & Analyzed: 03/06/2025			
Cyanide, total		4.90	0.581	mg/kg dry	5.81	ND	84.4	79.6-107				
Matrix Spike Dup (BC50458-M	Matrix Spike Dup	*Source sample: 25C0068-06 (SB15_0-2)							Prepared & Analyzed: 03/06/2025			
Cyanide, total		4.52	0.581	mg/kg dry	5.81	ND	77.8	79.6-107	Low Bias	8.19	200	

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50458 - Analysis Preparation Soil											
Reference (BC50458-SRM1) Reference								Prepared & Analyzed: 03/06/2025			
Cyanide, total	129		ug/mL	111		116	43.5-170				
Batch BC50500 - Analysis Preparation Soil											
Blank (BC50500-BLK2) Blank								Prepared & Analyzed: 03/07/2025			
Cyanide, total	ND	0.500	mg/kg wet								
Reference (BC50500-SRM1) Reference								Prepared & Analyzed: 03/07/2025			
Cyanide, total	110		ug/mL	111		99.0	43.5-170				
Batch BC50507 - EPA SW846-3060											
Blank (BC50507-BLK1) Blank								Prepared & Analyzed: 03/07/2025			
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Duplicate (BC50507-DUP1) Duplicate *Source sample: 25C0068-06 (SB15_0-2)								Prepared & Analyzed: 03/07/2025			
Chromium, Hexavalent	ND	0.581	mg/kg dry		ND					35	
Matrix Spike (BC50507-MS1) Matrix Spike *Source sample: 25C0068-06 (SB15_0-2)								Prepared & Analyzed: 03/07/2025			
Chromium, Hexavalent	5.87	0.581	mg/kg dry	23.2	ND	25.3	75-125	Low Bias			
Matrix Spike Dup (BC50507-! Matrix Spike Dup *Source sample: 25C0068-06 (SB15_0-2)								Prepared & Analyzed: 03/07/2025			
Chromium, Hexavalent	9.97	0.581	mg/kg dry	23.2	ND	42.9	75-125	Low Bias	51.8	200	
Reference (BC50507-SRM1) Reference								Prepared & Analyzed: 03/07/2025			
Chromium, Hexavalent	173		mg/L	227		76.4	42.3-157.7				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50280 - % Solids Prep											
Duplicate (BC50280-DUP1) Duplicate	*Source sample: 25C0068-06 (SB15_0-2)							Prepared & Analyzed: 03/05/2025			
% Solids	85.8	0.100	%		86.1				0.373	20	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
25C0068-01	SOFB02_030325	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
25C0068-03	SOTB02_030325	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
25C0068-04	SB05_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0068-05	SB05_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0068-06	SB15_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0068-07	SB15_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0068-08	SB14_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0068-09	SB14_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0068-10	SB13_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0068-11	SB13_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0068-12	SB12_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0068-13	SB12_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0068-14	SB11_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0068-15	SB11_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0068-16	SB20_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0068-17	SB20_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0068-18	SODUP03_030325	40mL Vial with Stir Bar-Cool 4° C

Sample and Data Qualifiers Relating to This Work Order

S-GC	Two surrogates are used for this analysis. One surrogate recovered within control limits therefore the analysis is acceptable.
S-08	The recovery of this surrogate was outside of QC limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
PF-CCV-L	The CCV recovery for this PFAS compound was below control limits.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

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120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | 2161 Whitesville Rd Toms River, NJ 08755 | clientservices@yorklab.com | 800-306-YORK

YORK Project Number: 25C0068

Page 1 of 3

Report To:
Company: Langan
Address: 368 Ninth Ave, 8th Fl NY, NY 10001
Phone.: 212-479-5400
Contact: Lexi Haley
E-mail: LHaley@langan.com

Invoice To:
Company:
Address:
Phone.:
Contact:
E-mail:

YOUR Project Name / Number: Proposed Bally Casino – Bay Road of Ferry Point Park 17077801

PO Number:

Samples Collected From: NY [X] NJ [ ] CT [ ] PA [ ] Other: (please specify)

Turn-Around Time: RUSH - Next Day; RUSH - Two Day; RUSH - Three Day; RUSH - Four Day; RUSH - Five Day; Standard (6-9 Day) [✓]; PFAS Standard 7-10 Day

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered; Lab Filtered

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Savannah Walters

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Preservative (please list number of containers)

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other: DI Water	Part 375 VOCs	Part 375 SVOCs, PCBs, Pest	Herb, TPH, metals (incl Hg)	tri chlorin & total cyanide	1,4-dioxane	PFAS	Grab or Comp. G/C
SBFB02_030325	3/3/25	0745	AQ	8	3		2		1					X	X	X	X	X		
SBFB02_PFAS_030325		0750		2															X	
SBTB02_030325		—			2															
SB05_0-2		0854	S	3		1							2	X	X	X	X	X		
SB05_5-7		0859																		
SB15_0-2		1117		4																
SB15_5-7		1151		3															X	
SB14_0-2		1409																		
SB14_5-7		1416																		
SB13_0-2		1349																		
SB13_5-7		1402																		
SB12_0-2		1451																		
SB12_5-7		1457																		
SB11_0-2		1526																		
SB11_5-7		1533																		

Comments: cc: datamanagement@langan.com, areach@langan.com & swalters@langan.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N ✓ Containers Intact: Y / N COC/Labels Agree: Y / N Preservation Confirmed: Y / N
COC Complete: Y / N COC Received: Y / N Appropriate Sample Volumes: Y / N Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N Samples Submitted within Holding Times: Y / N Corrective Action Form Required: Y / N ✓

Relinquished by / Company	Date/Time	Received by / Company	Date/Time	Relinquished by / Company	Date/Time
1. Savannah Walters (Langan)	3/3/25 1611	1. [signature]	3/3/25 16:00	2. [signature]	3/3/25 20:00
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by [signature]	Date/Time 3/3/25 20:00

Temperature 23 Degrees C

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

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YORK Project Number: 25C0068

Page 2 of 3

Report To:
Company: Langan
Address: 360 Madison Ave 8th Fl NY NY 10001
Phone: 212 479 5400
Contact: Levi Haley
E-mail: Chaley@langan.com

Invoice To:
Company:
Address:
Phone:
Contact:
E-mail:

YOUR Project Name / Number: Proposed Bally's Casino - Ring Road at Ferry Point Park 17078001

PO Number:

Samples Collected From: NY [X] NJ [ ] CT [ ] PA [ ] Other: (please specify)

Turn-Around Time: RUSH - Next Day [ ] RUSH - Two Day [ ] RUSH - Three Day [ ] RUSH - Four Day [ ] RUSH - Five Day [ ] Standard (6-9 Day) [X] PFAS Standard 7-10 Day [ ]

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Sarah Walters / Savannah Walters

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Preservative (please list number of containers)

Analyses Requested

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other: DI Water	Part 375 VOCs	Part 375 SVOCs, PCB Pest	Herb, TAL Metals (incl Hg)	tri chrom & total cyanide	1,4-dioxane	PFAS	Grab or Comp G/C
SB20_0-2	3/3/25	15:26	S	3		1							2	X	X	X	X	X		
SB20_5-7*	↓	1533	↓	4		1							2	↓	↓	↓	↓	↓	X	
SOTMP03-030325	↓	—	↓	3		1							2	↓	↓	↓	↓	↓		

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered [ ]
Lab Filtered [ ]

Comments: cc: datamanagement@langan.com, areach@langan.com & swalters@langan.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N | Containers Intact: Y / N | COC/Labels Agree: Y / N | Preservation Confirmed: Y / N
COC Complete: Y / N | COC Received: Y / N | Appropriate Sample Volumes: Y / N | Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N | Samples Submitted within Holding Times: Y / N | Corrective Action Form Required: Y / N

1. Samples Relinquished by / Company: Savannah Walters (Langan) — Date/Time: 3/3/25 1611	1. Samples Received by / Company: [signature] — Date/Time: 3/3/25 16:00	2. Samples Relinquished by / Company: [signature] — Date/Time: 3/3/25 20:00
2. Samples Received by / Company — Date/Time	3. Samples Relinquished by / Company — Date/Time	3. Samples Received by / Company — Date/Time
4. Samples Relinquished by / Company — Date/Time	4. Samples Received by / Company — Date/Time	Samples Received in Lab by: [signature] — Date/Time: 3/3/25 20:00 — Temperature: 2.3 Degrees C

Field Chain-of-Custody Record

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YORK Project Number: 2500068

Page 3 of 3

Report To:
Company: Langan
Address: 368 Ninth Ave 8th Fl NY, NY 10001
Phone.: 212 479 5400
Contact: Lexi Haley
E-mail: LHaley@langan.com

Invoice To:
Company:
Address:
Phone:
Contact:
E-mail:

YOUR Project Name / Number: Proposed Bally's Casino – Ring Road at Ferry Point Park 17077.3004

PO Number:

Samples Collected From: NY ✓ | NJ | CT | PA | Other: (please specify)

Turn-Around Time: RUSH - Next Day | RUSH - Two Day | RUSH - Three Day | RUSH - Four Day | RUSH - Five Day | Standard (6-9 Day) ✓ | PFAS Standard 7-10 Day

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Savannah Walters

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Preservative (please list number of containers)

Analyses Requested

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other:	Part 375 VOCs	Part 375 SVOCs, KBs, Pest	Hexavalent Chromium (i.e. Cr6)	Cyanide (total and amenable)	PFAS	Grab or Comp. G/C
TMW15_030325	3/3/25	1021	GW	10	3		2		1					X	X	X	X	X	
GWTB02_030325		—	AQ		2									X					

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered ✓
Lab Filtered

Comments: cc data-management@langan.com; areach@langan.com; swalters@langan.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N | Containers Intact: Y / N | COC/Labels Agree: Y / N | Preservation Confirmed: Y / N
COC Complete: Y / N | COC Received: Y / N | Appropriate Sample Volumes: Y / N | Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N | Samples Submitted within Holding Times: Y / N | Corrective Action Form Required: Y / N

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Savannah Walters (Langan)	3/3/25 1611	[signature]	3/3/25 16:10	[signature]	3/3/25 20:00
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				[signature]	3/3/25 20:00 / 2.3 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Report Date: 03/13/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0156

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/13/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0156

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 04, 2025 and listed below. The project was identified as your project: **170773001**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25C0156-01	SB19_0-2	Soil	03/04/2025	03/04/2025
25C0156-02	SB19_5-7	Soil	03/04/2025	03/04/2025
25C0156-03	SB18_0-2	Soil	03/04/2025	03/04/2025
25C0156-04	SB18_5-7	Soil	03/04/2025	03/04/2025
25C0156-05	SB17_0-2	Soil	03/04/2025	03/04/2025
25C0156-06	SB17_5-7	Soil	03/04/2025	03/04/2025
25C0156-07	SB16_0-2	Soil	03/04/2025	03/04/2025
25C0156-08	SB16_5-7	Soil	03/04/2025	03/04/2025
25C0156-09	SB21_0-2	Soil	03/04/2025	03/04/2025
25C0156-10	SB21_5-7	Soil	03/04/2025	03/04/2025
25C0156-11	SB22_0-2	Soil	03/04/2025	03/04/2025
25C0156-12	SB22_5-7	Soil	03/04/2025	03/04/2025
25C0156-13	SB23_0-2	Soil	03/04/2025	03/04/2025
25C0156-14	SB23_5-7	Soil	03/04/2025	03/04/2025
25C0156-15	SODUP04_030425	Soil	03/04/2025	03/04/2025

General Notes for York Project (SDG) No.: 25C0156

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By **Date:** 03/13/2025

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: **SB19_0-2** **York Sample ID:** **25C0156-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:12 am	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.055	0.11	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB19_0-2 **York Sample ID:** 25C0156-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:12 am	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	CCVE, ICVE	mg/kg dry	0.0055	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0055	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB19_0-2 **York Sample ID:** 25C0156-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:12 am	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0055	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0055	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB19_0-2** **York Sample ID:** **25C0156-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:12 am	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0028	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0083	0.017	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.103	0.206	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.103	0.206	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.103	0.206	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB19_0-2** **York Sample ID:** **25C0156-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:12 am	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.103	0.206	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.103	0.206	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.103	0.206	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.103	0.206	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.103	0.206	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.206	0.412	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.206	0.412	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.0543**	J	mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB19_0-2** **York Sample ID:** **25C0156-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:12 am	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.0518**	J	mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.0560**	J	mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND	CCVE	mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.105**		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.103	0.206	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.0666**	J	mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.103	0.206	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.124**		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB19_0-2** **York Sample ID:** **25C0156-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:12 am	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E	mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.0642**	J	mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.106**		mg/kg dry	0.0516	0.103	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.206	0.412	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*64.8 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*63.2 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*61.1 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*62.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*72.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*65.0 %*	*24-116*

Sample Information

Client Sample ID: SB19_0-2 **York Sample ID:** 25C0156-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:12 am	03/04/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM	03/12/2025 09:05	03/13/2025 19:13	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*88.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00205	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00205	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00205	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00205	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00205	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00205	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00205	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00205	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00205	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00205	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00205	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00205	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00205	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00205	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00205	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00205	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB19_0-2 **York Sample ID:** 25C0156-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:12 am	03/04/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00205	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00205	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00205	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00205	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.205	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0410	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:34	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*113 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*91.6 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0207	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0207	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0207	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0207	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0207	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0207	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0207	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0207	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:11	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*73.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*66.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB19_0-2** **York Sample ID:** **25C0156-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:12 am	03/04/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0248	1	EPA 8151A	03/11/2025 08:00	03/12/2025 11:15	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0248	1	EPA 8151A	03/11/2025 08:00	03/12/2025 11:15	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0248	1	EPA 8151A	03/11/2025 08:00	03/12/2025 11:15	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*92.2 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**11100**		mg/kg dry	5.24	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.62	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**7.38**		mg/kg dry	1.57	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**80.9**		mg/kg dry	2.62	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.430**		mg/kg dry	0.053	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.315	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**2570**		mg/kg dry	5.25	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**32.1**		mg/kg dry	0.525	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**8.84**		mg/kg dry	0.419	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**31.5**		mg/kg dry	2.10	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**15600**		mg/kg dry	26.2	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**62.0**		mg/kg dry	0.525	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3320**		mg/kg dry	5.25	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**432**		mg/kg dry	0.525	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**34.4**		mg/kg dry	1.04	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB19_0-2** **York Sample ID:** **25C0156-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:12 am	03/04/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1340**		mg/kg dry	5.25	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.62	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.529	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**181**		mg/kg dry	52.5	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.10	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**38.3**		mg/kg dry	1.04	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**96.3**		mg/kg dry	2.61	1	EPA 6010D	03/09/2025 08:52	03/10/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0378	1	EPA 7473	03/07/2025 12:04	03/07/2025 19:00	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.629	1	EPA 7196A	03/10/2025 08:37	03/10/2025 14:45	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**32.1**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.629	1	EPA 9014/9010C	03/07/2025 08:47	03/07/2025 16:22	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB19_0-2** **York Sample ID:** **25C0156-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:12 am	03/04/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**79.4**		%	0.100	1	SM 2540G	03/06/2025 11:45	03/06/2025 12:25	BF
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB19_5-7 **York Sample ID:** 25C0156-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:16 am	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.11	0.23	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB19_5-7 **York Sample ID:** 25C0156-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:16 am	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	CCVE, ICVE	mg/kg dry	0.011	0.023	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.011	0.023	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB19_5-7 **York Sample ID:** 25C0156-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:16 am	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.011	0.023	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.011	0.023	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB19_5-7 **York Sample ID:** 25C0156-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:16 am	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.017	0.034	1	EPA 8260D	03/06/2025 12:00	03/07/2025 04:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0904	0.181	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0904	0.181	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0904	0.181	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB19_5-7 **York Sample ID:** 25C0156-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:16 am	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0904	0.181	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0904	0.181	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0904	0.181	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0904	0.181	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0904	0.181	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.181	0.362	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.181	0.362	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB19_5-7 **York Sample ID:** 25C0156-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:16 am	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND	CCVE	mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0904	0.181	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0904	0.181	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB19_5-7 **York Sample ID:** 25C0156-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:16 am	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E	mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.181	0.362	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:45	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*80.6 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*74.1 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*67.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*64.5 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*78.1 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*74.0 %*	*24-116*

Sample Information

Client Sample ID: SB19_5-7 **York Sample ID:** 25C0156-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:16 am	03/04/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.4	1	EPA 8270D SIM	03/12/2025 09:05	03/13/2025 19:28	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*80.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB19_5-7 **York Sample ID:** 25C0156-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:16 am	03/04/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.180	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0360	5	EPA 8081B	03/11/2025 16:42	03/12/2025 18:52	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*104 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*84.0 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0182	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:25	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0182	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:25	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0182	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:25	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0182	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:25	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0182	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:25	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0182	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:25	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0182	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:25	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0182	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:25	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*69.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*61.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB19_5-7** **York Sample ID:** **25C0156-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:16 am	03/04/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0219	1	EPA 8151A	03/11/2025 08:00	03/12/2025 11:22	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0219	1	EPA 8151A	03/11/2025 08:00	03/12/2025 11:22	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0219	1	EPA 8151A	03/11/2025 08:00	03/12/2025 11:22	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*94.6 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**13600**		mg/kg dry	4.61	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.30	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		mg/kg dry	1.38	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**137**		mg/kg dry	2.30	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.442**		mg/kg dry	0.046	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.277	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1790**		mg/kg dry	4.61	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**55.5**		mg/kg dry	0.461	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**16.9**		mg/kg dry	0.368	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**29.6**		mg/kg dry	1.84	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**21500**		mg/kg dry	23.0	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**2.61**		mg/kg dry	0.461	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**6630**		mg/kg dry	4.61	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**464**		mg/kg dry	0.461	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**97.3**		mg/kg dry	0.918	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB19_5-7** **York Sample ID:** **25C0156-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:16 am	03/04/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**4590**		mg/kg dry	4.61	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.30	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.465	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**286**		mg/kg dry	46.1	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.85	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**38.0**		mg/kg dry	0.918	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**36.1**		mg/kg dry	2.30	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0332	1	EPA 7473	03/07/2025 12:04	03/07/2025 19:00	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.553	1	EPA 7196A	03/10/2025 14:36	03/10/2025 18:20	sml
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**55.1**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.553	1	EPA 9014/9010C	03/07/2025 08:47	03/07/2025 16:22	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB19_5-7** **York Sample ID:** **25C0156-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 9:16 am	03/04/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.4**		%	0.100	1	SM 2540G	03/06/2025 11:45	03/06/2025 12:25	BF
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB18_0-2** **York Sample ID:** **25C0156-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:06 am	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.049	0.098	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB18_0-2 **York Sample ID:** 25C0156-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:06 am	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	CCVE, ICVE	mg/kg dry	0.0049	0.0098	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0049	0.0098	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB18_0-2 **York Sample ID:** 25C0156-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:06 am	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0049	0.0098	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0049	0.0098	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB18_0-2** **York Sample ID:** **25C0156-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:06 am	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0074	0.015	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0924	0.185	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0924	0.185	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0924	0.185	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB18_0-2 **York Sample ID:** 25C0156-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:06 am	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0924	0.185	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0924	0.185	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0924	0.185	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0924	0.185	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0924	0.185	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.185	0.370	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.185	0.370	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB18_0-2 **York Sample ID:** 25C0156-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:06 am	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND	CCVE	mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0924	0.185	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0924	0.185	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB18_0-2 **York Sample ID:** 25C0156-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:06 am	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E	mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0463	0.0924	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.185	0.370	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:15	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*54.9 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*50.9 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*47.1 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*46.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*55.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*46.7 %*	*24-116*

Sample Information

Client Sample ID: SB18_0-2 **York Sample ID:** 25C0156-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:06 am	03/04/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.3	1	EPA 8270D SIM	03/12/2025 09:05	03/13/2025 19:42	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*78.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB18_0-2 **York Sample ID:** 25C0156-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:06 am	03/04/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00184	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.184	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0368	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:09	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*109 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*91.3 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0186	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0186	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0186	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0186	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0186	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0186	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0186	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0186	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:39	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*67.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB18_0-2** **York Sample ID:** **25C0156-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:06 am	03/04/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0224	1	EPA 8151A	03/11/2025 08:00	03/12/2025 11:29	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0224	1	EPA 8151A	03/11/2025 08:00	03/12/2025 11:29	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0224	1	EPA 8151A	03/11/2025 08:00	03/12/2025 11:29	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*94.6 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9930**		mg/kg dry	4.71	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.35	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.43**		mg/kg dry	1.41	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**67.0**		mg/kg dry	2.35	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.312**		mg/kg dry	0.047	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.282	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1520**		mg/kg dry	4.71	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**33.2**		mg/kg dry	0.471	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**12.1**		mg/kg dry	0.376	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**23.8**		mg/kg dry	1.88	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**16400**		mg/kg dry	23.5	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**13.5**		mg/kg dry	0.471	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3770**		mg/kg dry	4.71	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**356**		mg/kg dry	0.471	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**55.5**		mg/kg dry	0.938	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB18_0-2** **York Sample ID:** **25C0156-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:06 am	03/04/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1460**		mg/kg dry	4.71	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.35	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.474	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**358**		mg/kg dry	47.1	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.89	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**31.6**		mg/kg dry	0.938	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**33.3**		mg/kg dry	2.34	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0339	1	EPA 7473	03/07/2025 12:04	03/07/2025 19:00	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.565	1	EPA 7196A	03/10/2025 14:36	03/10/2025 18:20	sml
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**33.2**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.565	1	EPA 9014/9010C	03/07/2025 08:47	03/07/2025 16:22	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB18_0-2** **York Sample ID:** **25C0156-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:06 am	03/04/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**88.5**		%	0.100	1	SM 2540G	03/06/2025 11:45	03/06/2025 12:25	BF
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB18_5-7 **York Sample ID:** 25C0156-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:19 am	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.062	0.12	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB18_5-7 **York Sample ID:** 25C0156-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:19 am	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	CCVE, ICVE	mg/kg dry	0.0062	0.012	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0062	0.012	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB18_5-7 **York Sample ID:** 25C0156-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:19 am	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0062	0.012	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0062	0.012	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB18_5-7** **York Sample ID:** **25C0156-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:19 am	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0031	0.0062	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0093	0.019	1	EPA 8260D	03/06/2025 12:00	03/07/2025 05:46	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*110 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB18_5-7 **York Sample ID:** 25C0156-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:19 am	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.183	0.366	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.183	0.366	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB18_5-7 **York Sample ID:** 25C0156-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:19 am	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND	CCVE	mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB18_5-7 **York Sample ID:** 25C0156-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:19 am	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E	mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.183	0.366	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:46	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*71.7 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*66.5 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*59.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*59.8 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*73.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*64.3 %*	*24-116*

Sample Information

Client Sample ID: SB18_5-7 **York Sample ID:** 25C0156-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:19 am	03/04/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.9	1	EPA 8270D SIM	03/12/2025 09:05	03/13/2025 19:57	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*90.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB18_5-7 **York Sample ID:** 25C0156-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:19 am	03/04/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0359	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:29	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*105 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*91.2 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:53	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:53	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:53	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:53	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:53	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:53	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:53	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:39	03/12/2025 18:53	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*76.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*69.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB18_5-7** **York Sample ID:** **25C0156-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:19 am	03/04/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0218	1	EPA 8151A	03/11/2025 08:00	03/12/2025 11:37	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0218	1	EPA 8151A	03/11/2025 08:00	03/12/2025 11:37	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0218	1	EPA 8151A	03/11/2025 08:00	03/12/2025 11:37	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*85.8 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**10400**		mg/kg dry	4.59	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.30	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		mg/kg dry	1.38	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**125**		mg/kg dry	2.29	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.214**		mg/kg dry	0.046	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.275	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**812**		mg/kg dry	4.59	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**30.9**		mg/kg dry	0.459	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**10.6**		mg/kg dry	0.367	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**21.7**		mg/kg dry	1.84	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**15700**	M-CCV 1	mg/kg dry	23.0	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**2.39**		mg/kg dry	0.459	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3360**		mg/kg dry	4.59	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**402**		mg/kg dry	0.459	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**57.7**		mg/kg dry	0.915	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB18_5-7** **York Sample ID:** **25C0156-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:19 am	03/04/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**2640**		mg/kg dry	4.59	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.30	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.463	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**145**		mg/kg dry	45.9	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.84	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**30.4**		mg/kg dry	0.915	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**26.0**		mg/kg dry	2.29	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0331	1	EPA 7473	03/07/2025 12:04	03/07/2025 19:00	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	**Chromium, Hexavalent**	**0.693**		mg/kg dry	0.551	1	EPA 7196A	03/10/2025 14:36	03/10/2025 18:20	sml
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**30.2**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.551	1	EPA 9014/9010C	03/07/2025 08:47	03/07/2025 16:22	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB18_5-7** **York Sample ID:** **25C0156-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 10:19 am	03/04/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.8**		%	0.100	1	SM 2540G	03/06/2025 11:45	03/06/2025 12:25	BF
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB17_0-2** **York Sample ID:** **25C0156-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:10 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.046	0.092	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB17_0-2 **York Sample ID:** 25C0156-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:10 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	CCVE, ICVE	mg/kg dry	0.0046	0.0092	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0046	0.0092	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB17_0-2 **York Sample ID:** 25C0156-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:10 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0046	0.0092	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0046	0.0092	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB17_0-2** **York Sample ID:** **25C0156-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:10 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0069	0.014	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:11	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*112 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB17_0-2 **York Sample ID:** 25C0156-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:10 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.183	0.366	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.183	0.366	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB17_0-2** **York Sample ID:** **25C0156-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:10 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB17_0-2 **York Sample ID:** 25C0156-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:10 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E	mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.183	0.366	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:31	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*53.1 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*51.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*49.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*50.9 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*65.8 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*50.8 %*	*24-116*

Sample Information

Client Sample ID: SB17_0-2 **York Sample ID:** 25C0156-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:10 pm	03/04/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.3	1	EPA 8270D SIM	03/12/2025 09:05	03/13/2025 20:12	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*84.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB17_0-2 **York Sample ID:** 25C0156-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:10 pm	03/04/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0359	5	EPA 8081B	03/11/2025 16:42	03/12/2025 19:46	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*110 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*90.7 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:06	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:06	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:06	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:06	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:06	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:06	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:06	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:06	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*73.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*63.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SB17_0-2 **York Sample ID:** 25C0156-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:10 pm	03/04/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0215	1	EPA 8151A	03/11/2025 09:24	03/12/2025 19:12	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0215	1	EPA 8151A	03/11/2025 09:24	03/12/2025 19:12	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0215	1	EPA 8151A	03/11/2025 09:24	03/12/2025 19:12	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*86.6 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**13000**		mg/kg dry	4.59	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.30	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.38**		mg/kg dry	1.38	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**63.7**		mg/kg dry	2.29	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.388**		mg/kg dry	0.046	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.275	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**868**		mg/kg dry	4.59	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**32.1**		mg/kg dry	0.460	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**10.2**		mg/kg dry	0.367	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**21.7**		mg/kg dry	1.84	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**18400**	M-CCV 1	mg/kg dry	23.0	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**5.90**		mg/kg dry	0.460	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3080**		mg/kg dry	4.60	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**309**		mg/kg dry	0.460	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**44.5**		mg/kg dry	0.915	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB17_0-2** **York Sample ID:** **25C0156-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:10 pm	03/04/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1430**		mg/kg dry	4.60	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.30	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.463	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**196**		mg/kg dry	45.9	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.84	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**31.4**		mg/kg dry	0.915	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**28.4**		mg/kg dry	2.29	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0331	1	EPA 7473	03/07/2025 12:04	03/07/2025 19:00	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.551	1	EPA 7196A	03/10/2025 14:36	03/10/2025 18:20	sml
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**32.1**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.551	1	EPA 9014/9010C	03/07/2025 08:47	03/07/2025 16:22	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB17_0-2** **York Sample ID:** **25C0156-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:10 pm	03/04/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.7**		%	0.100	1	SM 2540G	03/06/2025 11:45	03/06/2025 12:25	BF
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB17_5-7 **York Sample ID:** 25C0156-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:20 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.056	0.11	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB17_5-7 **York Sample ID:** 25C0156-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:20 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	CCVE, ICVE	mg/kg dry	0.0056	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0056	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB17_5-7 **York Sample ID:** 25C0156-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:20 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0056	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0056	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB17_5-7 **York Sample ID:** 25C0156-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:20 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0084	0.017	1	EPA 8260D	03/06/2025 12:00	03/07/2025 06:36	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*110 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0898	0.179	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0898	0.179	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0898	0.179	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB17_5-7 **York Sample ID:** 25C0156-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:20 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0898	0.179	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0898	0.179	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0898	0.179	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0898	0.179	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0898	0.179	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.180	0.360	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.180	0.360	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB17_5-7 **York Sample ID:** 25C0156-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:20 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0898	0.179	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0898	0.179	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB17_5-7 **York Sample ID:** 25C0156-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:20 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E	mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.180	0.360	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:02	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*53.0 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*51.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*46.8 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*48.3 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*61.8 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*48.2 %*	*24-116*

Sample Information

Client Sample ID: SB17_5-7 **York Sample ID:** 25C0156-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:20 pm	03/04/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.5	1	EPA 8270D SIM	03/12/2025 09:05	03/13/2025 20:27	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*98.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB17_5-7 **York Sample ID:** 25C0156-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:20 pm	03/04/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0353	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:04	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*103 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*84.5 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0178	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:20	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0178	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:20	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0178	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:20	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0178	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:20	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0178	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:20	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0178	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:20	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0178	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:20	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0178	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:20	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*63.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB17_5-7** **York Sample ID:** **25C0156-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:20 pm	03/04/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0214	1	EPA 8151A	03/11/2025 09:24	03/12/2025 19:19	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0214	1	EPA 8151A	03/11/2025 09:24	03/12/2025 19:19	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0214	1	EPA 8151A	03/11/2025 09:24	03/12/2025 19:19	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*98.8 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**12400**		mg/kg dry	4.52	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.26	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**4.03**		mg/kg dry	1.36	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**57.8**		mg/kg dry	2.25	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.389**		mg/kg dry	0.046	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.271	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**741**		mg/kg dry	4.52	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**30.2**		mg/kg dry	0.452	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**8.40**		mg/kg dry	0.361	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**19.8**		mg/kg dry	1.81	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**19000**	M-CCV 1	mg/kg dry	22.6	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**10.9**		mg/kg dry	0.452	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**2970**		mg/kg dry	4.52	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**278**		mg/kg dry	0.452	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**31.6**		mg/kg dry	0.900	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB17_5-7** **York Sample ID:** **25C0156-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:20 pm	03/04/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1170**		mg/kg dry	4.52	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.26	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.455	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**210**		mg/kg dry	45.2	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.81	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**32.8**		mg/kg dry	0.900	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**30.6**		mg/kg dry	2.25	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:48	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0325	1	EPA 7473	03/07/2025 17:54	03/08/2025 11:03	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.542	1	EPA 7196A	03/11/2025 07:09	03/11/2025 12:10	SMM
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**30.2**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.542	1	EPA 9014/9010C	03/07/2025 08:47	03/07/2025 16:22	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB17_5-7** **York Sample ID:** **25C0156-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 12:20 pm	03/04/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**92.2**		%	0.100	1	SM 2540G	03/06/2025 11:45	03/06/2025 12:25	BF
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB16_0-2 **York Sample ID:** 25C0156-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:14 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.071	0.14	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB16_0-2 **York Sample ID:** 25C0156-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:14 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	CCVE, ICVE	mg/kg dry	0.0071	0.014	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0071	0.014	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB16_0-2 **York Sample ID:** 25C0156-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:14 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0071	0.014	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0071	0.014	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB16_0-2 **York Sample ID:** 25C0156-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:14 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0035	0.0071	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.011	0.021	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:01	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*112 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0903	0.180	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0903	0.180	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0903	0.180	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB16_0-2 **York Sample ID:** 25C0156-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:14 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0903	0.180	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0903	0.180	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0903	0.180	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0903	0.180	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0903	0.180	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.181	0.362	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.181	0.362	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB16_0-2** **York Sample ID:** **25C0156-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:14 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.0548**	J	mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0903	0.180	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0903	0.180	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.0642**	J	mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB16_0-2** **York Sample ID:** **25C0156-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:14 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E	mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.0534**	J	mg/kg dry	0.0452	0.0903	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.181	0.362	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:32	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*64.4 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*64.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*56.3 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*59.1 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*74.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*61.2 %*	*24-116*

Sample Information

Client Sample ID: SB16_0-2 **York Sample ID:** 25C0156-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:14 pm	03/04/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.5	1	EPA 8270D SIM	03/12/2025 09:05	03/13/2025 20:42	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*96.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB16_0-2 **York Sample ID:** 25C0156-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:14 pm	03/04/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.177	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0355	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:21	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*105 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*86.1 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0179	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:34	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0179	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:34	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0179	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:34	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0179	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:34	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0179	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:34	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0179	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:34	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0179	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:34	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0179	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:34	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*62.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB16_0-2** **York Sample ID:** **25C0156-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:14 pm	03/04/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0215	1	EPA 8151A	03/11/2025 09:24	03/12/2025 19:26	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0215	1	EPA 8151A	03/11/2025 09:24	03/12/2025 19:26	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0215	1	EPA 8151A	03/11/2025 09:24	03/12/2025 19:26	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*81.8 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7700**		mg/kg dry	4.54	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.27	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**4.21**		mg/kg dry	1.36	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**86.0**		mg/kg dry	2.27	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.297**		mg/kg dry	0.046	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.272	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**13900**		mg/kg dry	4.54	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**19.3**		mg/kg dry	0.454	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**6.73**		mg/kg dry	0.363	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**32.3**		mg/kg dry	1.82	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**15300**	M-CCV 1	mg/kg dry	22.7	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**51.3**		mg/kg dry	0.454	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**4570**		mg/kg dry	4.54	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**239**		mg/kg dry	0.454	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**15.2**		mg/kg dry	0.904	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB16_0-2** **York Sample ID:** **25C0156-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:14 pm	03/04/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1710**		mg/kg dry	4.54	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.27	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.458	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**473**		mg/kg dry	45.4	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.82	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**23.6**		mg/kg dry	0.904	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**80.6**		mg/kg dry	2.26	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0631**		mg/kg dry	0.0327	1	EPA 7473	03/07/2025 12:04	03/07/2025 19:00	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	**Chromium, Hexavalent**	**0.583**		mg/kg dry	0.545	1	EPA 7196A	03/10/2025 14:36	03/10/2025 18:20	sml
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**18.7**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.545	1	EPA 9014/9010C	03/07/2025 08:47	03/07/2025 16:22	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB16_0-2** **York Sample ID:** **25C0156-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:14 pm	03/04/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.8**		%	0.100	1	SM 2540G	03/06/2025 11:45	03/06/2025 12:25	BF
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB16_5-7 **York Sample ID:** 25C0156-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:19 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.054	0.11	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB16_5-7 **York Sample ID:** 25C0156-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:19 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	CCVE, ICVE	mg/kg dry	0.0054	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0054	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB16_5-7 **York Sample ID:** 25C0156-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:19 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0054	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0054	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB16_5-7** **York Sample ID:** **25C0156-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:19 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0081	0.016	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:26	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*119 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	CCVE	mg/kg dry	0.0909	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0909	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	**2,4-Dinitrotoluene**	**0.955**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	**2,6-Dinitrotoluene**	**1.34**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB16_5-7 **York Sample ID:** 25C0156-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:19 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0909	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND	CCVE	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.182	0.364	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.182	0.364	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB16_5-7** **York Sample ID:** **25C0156-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:19 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CCVE	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	**Dimethyl phthalate**	**0.390**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB16_5-7** **York Sample ID:** **25C0156-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:19 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	**Hexachlorobenzene**	**0.0923**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND	CCVE	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	**Hexachloroethane**	**1.03**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	**Isophorone**	**0.374**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	**N-nitroso-di-n-propylamine**	**0.123**	CCVE	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CCVE	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.182	0.364	2	EPA 8270E	03/11/2025 16:48	03/12/2025 15:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*78.8 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*78.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*79.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*74.3 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*82.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*80.6 %*	*24-116*

Sample Information

Client Sample ID: SB16_5-7 **York Sample ID:** 25C0156-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:19 pm	03/04/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.9	1	EPA 8270D SIM	03/12/2025 09:05	03/13/2025 20:57	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*100 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB16_5-7 **York Sample ID:** 25C0156-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:19 pm	03/04/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.179	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0357	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:38	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*104 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*83.5 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0180	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0180	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0180	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0180	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0180	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0180	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0180	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0180	1	EPA 8082A	03/11/2025 16:39	03/12/2025 19:48	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*62.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB16_5-7** **York Sample ID:** **25C0156-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:19 pm	03/04/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0217	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:02	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0217	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:02	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0217	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:02	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*86.2 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9600**		mg/kg dry	4.57	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.29	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**1.67**		mg/kg dry	1.37	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**134**		mg/kg dry	2.28	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.364**		mg/kg dry	0.046	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.274	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**919**		mg/kg dry	4.57	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**28.9**		mg/kg dry	0.458	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**9.45**		mg/kg dry	0.366	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**16.2**		mg/kg dry	1.83	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**18000**	M-CCV 1	mg/kg dry	22.9	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**3.80**		mg/kg dry	0.458	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3040**		mg/kg dry	4.58	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**767**		mg/kg dry	0.458	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**42.8**		mg/kg dry	0.911	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB16_5-7** **York Sample ID:** **25C0156-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:19 pm	03/04/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1900**		mg/kg dry	4.58	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.29	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.461	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**202**		mg/kg dry	45.7	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.83	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**35.6**		mg/kg dry	0.911	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**27.9**		mg/kg dry	2.28	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:56	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0329	1	EPA 7473	03/07/2025 12:04	03/07/2025 19:00	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.549	1	EPA 7196A	03/10/2025 14:36	03/10/2025 18:20	sml
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**28.9**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.549	1	EPA 9014/9010C	03/07/2025 08:47	03/07/2025 16:22	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB16_5-7** **York Sample ID:** **25C0156-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 1:19 pm	03/04/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.1**		%	0.100	1	SM 2540G	03/06/2025 11:45	03/06/2025 12:25	BF
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB21_0-2 **York Sample ID:** 25C0156-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:29 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.049	0.098	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB21_0-2 **York Sample ID:** 25C0156-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:29 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	CCVE, ICVE	mg/kg dry	0.0049	0.0098	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0049	0.0098	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB21_0-2 **York Sample ID:** 25C0156-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:29 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0049	0.0098	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0049	0.0098	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB21_0-2 **York Sample ID:** 25C0156-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:29 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0073	0.015	1	EPA 8260D	03/06/2025 12:00	03/07/2025 07:51	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*113 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.108	0.215	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.108	0.215	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.108	0.215	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB21_0-2** **York Sample ID:** **25C0156-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:29 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.108	0.215	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.108	0.215	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.108	0.215	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.108	0.215	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.108	0.215	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.931**		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.216	0.432	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.827**		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.216	0.432	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**3.38**		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB21_0-2** **York Sample ID:** **25C0156-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:29 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**5.10**		mg/kg dry	0.270	0.539	10	EPA 8270E	03/11/2025 16:48	03/13/2025 12:44	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**7.95**		mg/kg dry	0.270	0.539	10	EPA 8270E	03/11/2025 16:48	03/13/2025 12:44	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**2.16**		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**7.41**		mg/kg dry	0.270	0.539	10	EPA 8270E	03/11/2025 16:48	03/13/2025 12:44	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.237**		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.108	0.215	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	**Carbazole**	**1.18**		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**9.86**		mg/kg dry	0.270	0.539	10	EPA 8270E	03/11/2025 16:48	03/13/2025 12:44	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	**Dibenzo(a,h)anthracene**	**0.774**		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.108	0.215	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**8.32**		mg/kg dry	0.270	0.539	10	EPA 8270E	03/11/2025 16:48	03/13/2025 12:44	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB21_0-2** **York Sample ID:** **25C0156-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:29 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	**Fluorene**	**0.0819**	J	mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**2.66**		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.256**		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0540	0.108	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**12.4**		mg/kg dry	0.270	0.539	10	EPA 8270E	03/11/2025 16:48	03/13/2025 12:44	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.216	0.432	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*53.2 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*54.2 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*49.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*48.5 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*53.9 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*50.9 %*	*24-116*

Sample Information

Client Sample ID: SB21_0-2 **York Sample ID:** 25C0156-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:29 pm	03/04/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	20.0	1	EPA 8270D SIM	03/11/2025 09:22	03/12/2025 20:53	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*58.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00212	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00212	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00212	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00212	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00212	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00212	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00212	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00212	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00212	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00212	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00212	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00212	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00212	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00212	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00212	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00212	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB21_0-2 **York Sample ID:** 25C0156-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:29 pm	03/04/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00212	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00212	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00212	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00212	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.212	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0424	5	EPA 8081B	03/11/2025 16:42	03/12/2025 20:55	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*101 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*83.1 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0214	1	EPA 8082A	03/11/2025 16:39	03/12/2025 20:02	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0214	1	EPA 8082A	03/11/2025 16:39	03/12/2025 20:02	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0214	1	EPA 8082A	03/11/2025 16:39	03/12/2025 20:02	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0214	1	EPA 8082A	03/11/2025 16:39	03/12/2025 20:02	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0214	1	EPA 8082A	03/11/2025 16:39	03/12/2025 20:02	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0214	1	EPA 8082A	03/11/2025 16:39	03/12/2025 20:02	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0214	1	EPA 8082A	03/11/2025 16:39	03/12/2025 20:02	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0214	1	EPA 8082A	03/11/2025 16:39	03/12/2025 20:02	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*69.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*62.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB21_0-2** **York Sample ID:** **25C0156-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:29 pm	03/04/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0259	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:10	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0259	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:10	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0259	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:10	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*80.8 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9090**		mg/kg dry	5.42	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.71	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**7.07**		mg/kg dry	1.63	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**110**		mg/kg dry	2.71	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.456**		mg/kg dry	0.055	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.640**		mg/kg dry	0.325	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**8120**		mg/kg dry	5.42	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**37.1**		mg/kg dry	0.543	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**7.98**		mg/kg dry	0.433	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**97.8**		mg/kg dry	2.17	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**21400**	M-CCV 1	mg/kg dry	27.1	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**103**		mg/kg dry	0.543	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**5530**		mg/kg dry	5.43	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**1350**		mg/kg dry	0.543	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**34.0**		mg/kg dry	1.08	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB21_0-2** **York Sample ID:** **25C0156-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:29 pm	03/04/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1220**		mg/kg dry	5.43	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.71	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.546	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**1960**		mg/kg dry	54.2	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.17	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**31.7**		mg/kg dry	1.08	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**531**		mg/kg dry	2.70	1	EPA 6010D	03/09/2025 09:03	03/10/2025 11:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0552**		mg/kg dry	0.0390	1	EPA 7473	03/07/2025 12:04	03/07/2025 19:00	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.651	1	EPA 7196A	03/10/2025 14:36	03/10/2025 18:20	sml
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**37.1**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.651	1	EPA 9014/9010C	03/07/2025 08:47	03/07/2025 16:22	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB21_0-2** **York Sample ID:** **25C0156-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:29 pm	03/04/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**76.9**		%	0.100	1	SM 2540G	03/06/2025 11:45	03/06/2025 12:25	BF
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB21_5-7 **York Sample ID:** 25C0156-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:40 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.054	0.11	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB21_5-7 **York Sample ID:** 25C0156-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:40 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.013**	CCVE, ICVE	mg/kg dry	0.0054	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0054	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB21_5-7 **York Sample ID:** 25C0156-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:40 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0054	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0054	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB21_5-7 **York Sample ID:** 25C0156-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:40 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0081	0.016	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:16	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*112 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB21_5-7 **York Sample ID:** 25C0156-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:40 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.183	0.365	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.183	0.365	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB21_5-7 **York Sample ID:** 25C0156-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:40 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB21_5-7 **York Sample ID:** 25C0156-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:40 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0457	0.0913	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.183	0.365	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:51	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*61.2 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*60.2 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*49.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*53.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*57.3 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*50.8 %*	*24-116*

Sample Information

Client Sample ID: SB21_5-7 **York Sample ID:** 25C0156-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:40 pm	03/04/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.6	1	EPA 8270D SIM	03/11/2025 09:22	03/12/2025 21:09	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*60.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB21_5-7 **York Sample ID:** 25C0156-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:40 pm	03/04/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00179	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.179	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0359	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:10	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*97.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.5 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:51	03/12/2025 21:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:51	03/12/2025 21:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:51	03/12/2025 21:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:51	03/12/2025 21:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:51	03/12/2025 21:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:51	03/12/2025 21:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:51	03/12/2025 21:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0181	1	EPA 8082A	03/11/2025 16:51	03/12/2025 21:39	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*81.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*71.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB21_5-7** **York Sample ID:** **25C0156-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:40 pm	03/04/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0220	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:17	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0220	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:17	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0220	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:17	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*85.4 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9080**		mg/kg dry	4.59	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.29	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**1.40**		mg/kg dry	1.38	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**59.6**		mg/kg dry	2.29	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.295**		mg/kg dry	0.046	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.275	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1550**		mg/kg dry	4.59	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**31.0**		mg/kg dry	0.459	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**9.53**		mg/kg dry	0.367	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**25.1**		mg/kg dry	1.84	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**15700**	M-CCV 1	mg/kg dry	22.9	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**10.6**		mg/kg dry	0.459	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3540**		mg/kg dry	4.59	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**367**		mg/kg dry	0.459	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**64.0**		mg/kg dry	0.914	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB21_5-7** **York Sample ID:** **25C0156-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:40 pm	03/04/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1760**		mg/kg dry	4.59	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.29	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.463	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**854**		mg/kg dry	45.9	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.84	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**24.9**		mg/kg dry	0.914	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**27.4**		mg/kg dry	2.29	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0330	1	EPA 7473	03/07/2025 12:04	03/07/2025 19:00	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.551	1	EPA 7196A	03/10/2025 14:36	03/10/2025 18:20	sml
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**31.0**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.551	1	EPA 9014/9010C	03/07/2025 08:47	03/07/2025 16:22	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB21_5-7** **York Sample ID:** **25C0156-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 2:40 pm	03/04/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.8**		%	0.100	1	SM 2540G	03/06/2025 11:45	03/06/2025 12:25	BF
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB22_0-2 **York Sample ID:** 25C0156-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:05 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.054	0.11	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB22_0-2 **York Sample ID:** 25C0156-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:05 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	CCVE, ICVE	mg/kg dry	0.0054	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0054	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB22_0-2 **York Sample ID:** 25C0156-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:05 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0054	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0054	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB22_0-2 **York Sample ID:** 25C0156-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:05 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0081	0.016	1	EPA 8260D	03/06/2025 12:00	03/07/2025 08:41	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*115 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	CCVE	mg/kg dry	0.101	0.202	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.101	0.202	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND	CCVE	mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND	CCVE	mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CCVE	mg/kg dry	0.101	0.202	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB22_0-2 **York Sample ID:** 25C0156-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:05 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.101	0.202	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.101	0.202	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CCVE	mg/kg dry	0.101	0.202	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND	CCVE	mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.101	0.202	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.101	0.202	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.203	0.405	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.203	0.405	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB22_0-2 **York Sample ID:** 25C0156-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:05 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CCVE	mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND	CAL-E	mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.101	0.202	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.101	0.202	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB22_0-2** **York Sample ID:** **25C0156-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:05 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND	CCVE	mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CCVE	mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.203	0.405	2	EPA 8270E	03/11/2025 16:48	03/12/2025 16:34	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*45.3 %*		*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*44.5 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*34.3 %*		*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*47.4 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*61.0 %*		*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*1.84 %*	S-08	*24-116*

Sample Information

Client Sample ID: SB22_0-2 **York Sample ID:** 25C0156-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:05 pm	03/04/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.6	1	EPA 8270D SIM	03/11/2025 09:22	03/12/2025 21:24	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*70.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00198	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00198	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00198	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00198	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00198	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00198	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00198	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00198	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00198	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00198	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00198	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00198	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00198	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00198	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00198	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00198	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB22_0-2 **York Sample ID:** 25C0156-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:05 pm	03/04/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00198	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00198	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00198	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00198	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.198	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0397	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:26	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*83.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*61.7 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0200	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:20	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0200	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:20	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0200	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:20	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0200	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:20	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0200	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:20	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0200	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:20	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0200	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:20	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0200	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:20	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*74.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*70.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB22_0-2** **York Sample ID:** **25C0156-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:05 pm	03/04/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0244	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:24	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0244	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:24	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0244	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:24	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*92.0 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**19200**		mg/kg dry	5.09	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.55	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**4.25**		mg/kg dry	1.53	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**132**		mg/kg dry	2.54	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.609**		mg/kg dry	0.051	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.305	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1750**		mg/kg dry	5.09	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**31.1**		mg/kg dry	0.510	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**14.0**		mg/kg dry	0.407	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**40.0**		mg/kg dry	2.04	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**26000**	M-CCV 1	mg/kg dry	25.5	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**67.1**		mg/kg dry	0.510	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**4900**		mg/kg dry	5.10	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**695**		mg/kg dry	0.510	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**24.2**		mg/kg dry	1.01	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB22_0-2** **York Sample ID:** **25C0156-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:05 pm	03/04/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**4200**		mg/kg dry	5.10	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.55	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.513	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**1330**		mg/kg dry	50.9	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.04	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**48.1**		mg/kg dry	1.01	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**212**		mg/kg dry	2.54	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0367	1	EPA 7473	03/07/2025 12:04	03/07/2025 19:00	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.611	1	EPA 7196A	03/10/2025 14:36	03/10/2025 18:20	sml
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**31.1**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.611	1	EPA 9014/9010C	03/07/2025 08:47	03/07/2025 16:22	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB22_0-2** **York Sample ID:** **25C0156-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:05 pm	03/04/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**81.8**		%	0.100	1	SM 2540G	03/06/2025 11:45	03/06/2025 12:25	BF
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB22_5-7** **York Sample ID:** **25C0156-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:15 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.055	0.11	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.0028**	J	mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB22_5-7** **York Sample ID:** **25C0156-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:15 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.017**	CCVE, ICVE	mg/kg dry	0.0055	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0055	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB22_5-7 **York Sample ID:** 25C0156-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:15 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0055	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0055	0.011	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB22_5-7 **York Sample ID:** 25C0156-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:15 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0082	0.016	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:06	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*116 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	CCVE	mg/kg dry	0.0945	0.189	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND	CCVE	mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND	CCVE	mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CCVE	mg/kg dry	0.0945	0.189	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB22_5-7 **York Sample ID:** 25C0156-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:15 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CCVE	mg/kg dry	0.0945	0.189	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND	CCVE	mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.189	0.378	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.189	0.378	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB22_5-7 **York Sample ID:** 25C0156-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:15 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CCVE	mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND	CAL-E	mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB22_5-7 **York Sample ID:** 25C0156-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:15 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND	CCVE	mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CCVE	mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0473	0.0945	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.189	0.378	2	EPA 8270E	03/11/2025 16:48	03/12/2025 17:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*61.3 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*64.4 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*53.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*61.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*83.5 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*70.0 %*	*24-116*

Sample Information

Client Sample ID: SB22_5-7 **York Sample ID:** 25C0156-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:15 pm	03/04/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.5	1	EPA 8270D SIM	03/11/2025 09:22	03/12/2025 21:39	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*62.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB22_5-7 **York Sample ID:** 25C0156-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:15 pm	03/04/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00183	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.183	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0365	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:41	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*83.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*62.5 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0184	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:34	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0184	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:34	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0184	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:34	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0184	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:34	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0184	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:34	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0184	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:34	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0184	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:34	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0184	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:34	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*56.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*52.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SB22_5-7 **York Sample ID:** 25C0156-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:15 pm	03/04/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0227	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:31	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0227	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:31	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0227	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:31	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*98.0 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**6390**		mg/kg dry	4.75	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.37	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		mg/kg dry	1.43	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**42.5**		mg/kg dry	2.37	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.232**		mg/kg dry	0.048	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.285	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1120**		mg/kg dry	4.75	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**29.0**		mg/kg dry	0.475	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**8.11**		mg/kg dry	0.380	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**19.4**		mg/kg dry	1.90	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**11200**	M-CCV 1	mg/kg dry	23.7	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**5.48**		mg/kg dry	0.475	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3280**		mg/kg dry	4.75	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**297**		mg/kg dry	0.475	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**69.7**		mg/kg dry	0.946	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB22_5-7** **York Sample ID:** **25C0156-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:15 pm	03/04/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1480**		mg/kg dry	4.75	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.37	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.479	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**554**		mg/kg dry	47.5	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.90	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**18.0**		mg/kg dry	0.946	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**20.0**		mg/kg dry	2.37	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0365**		mg/kg dry	0.0342	1	EPA 7473	03/07/2025 12:04	03/07/2025 19:00	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	**Chromium, Hexavalent**	**0.664**		mg/kg dry	0.570	1	EPA 7196A	03/10/2025 14:36	03/10/2025 18:20	sml
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**28.3**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.570	1	EPA 9014/9010C	03/07/2025 08:47	03/07/2025 16:22	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB22_5-7** **York Sample ID:** **25C0156-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:15 pm	03/04/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**87.7**		%	0.100	1	SM 2540G	03/06/2025 11:45	03/06/2025 12:25	BF
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB23_0-2 **York Sample ID:** 25C0156-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:40 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.044	0.088	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB23_0-2 **York Sample ID:** 25C0156-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:40 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	CCVE, ICVE	mg/kg dry	0.0044	0.0088	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0044	0.0088	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB23_0-2 **York Sample ID:** 25C0156-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:40 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0044	0.0088	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0044	0.0088	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB23_0-2 **York Sample ID:** 25C0156-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:40 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0066	0.013	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:31	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*118 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*108 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*112 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0902	0.180	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0902	0.180	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0902	0.180	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB23_0-2 **York Sample ID:** 25C0156-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:40 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0902	0.180	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0902	0.180	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0902	0.180	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0902	0.180	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0902	0.180	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.181	0.361	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.181	0.361	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.0649**	J	mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB23_0-2** **York Sample ID:** **25C0156-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:40 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.0584**	J	mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.0562**	J	mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.0598**	J	mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0902	0.180	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.0642**	J	mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	**Di-n-butyl phthalate**	**0.0879**	J	mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	**Di-n-octyl phthalate**	**0.168**		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0902	0.180	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.147**		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	Fluorene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB23_0-2** **York Sample ID:** **25C0156-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:40 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.118**		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.129**		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.181	0.361	2	EPA 8270E	03/12/2025 09:07	03/12/2025 21:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*61.4 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*66.7 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*53.7 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*54.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*65.7 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*62.1 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **SB23_0-2** **York Sample ID:** **25C0156-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:40 pm	03/04/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM	03/11/2025 09:22	03/12/2025 21:53	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*58.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB23_0-2 **York Sample ID:** 25C0156-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:40 pm	03/04/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00178	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.178	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0357	5	EPA 8081B	03/11/2025 16:54	03/12/2025 18:57	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*89.8 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*68.2 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0180	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0180	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0180	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0180	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0180	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0180	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0180	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0180	1	EPA 8082A	03/11/2025 16:51	03/12/2025 22:48	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*80.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*77.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB23_0-2** **York Sample ID:** **25C0156-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:40 pm	03/04/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0217	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:38	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0217	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:38	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0217	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:38	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*111 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**11900**		mg/kg dry	4.62	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.31	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**1.56**		mg/kg dry	1.39	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**72.0**		mg/kg dry	2.31	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.328**		mg/kg dry	0.047	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.278	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**2500**		mg/kg dry	4.63	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**30.9**		mg/kg dry	0.463	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**11.0**		mg/kg dry	0.370	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**34.6**		mg/kg dry	1.85	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**16800**	M-CCV 1	mg/kg dry	23.1	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**28.9**		mg/kg dry	0.463	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**4220**		mg/kg dry	4.63	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**288**		mg/kg dry	0.463	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**74.7**		mg/kg dry	0.921	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB23_0-2** **York Sample ID:** **25C0156-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:40 pm	03/04/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**2030**		mg/kg dry	4.63	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.31	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.466	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**1560**		mg/kg dry	46.3	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.85	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**26.3**		mg/kg dry	0.921	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**37.0**		mg/kg dry	2.30	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0609**		mg/kg dry	0.0333	1	EPA 7473	03/07/2025 12:04	03/07/2025 19:00	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.555	1	EPA 7196A	03/11/2025 07:09	03/11/2025 12:10	SMM
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**30.9**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.555	1	EPA 9014/9010C	03/07/2025 08:47	03/07/2025 16:22	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB23_0-2** **York Sample ID:** **25C0156-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:40 pm	03/04/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.1**		%	0.100	1	SM 2540G	03/06/2025 11:45	03/06/2025 12:25	BF
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB23_5-7** **York Sample ID:** **25C0156-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:45 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.044	0.088	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.0027**	J	mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB23_5-7** **York Sample ID:** **25C0156-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:45 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.017**	CCVE, ICVE	mg/kg dry	0.0044	0.0088	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0044	0.0088	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB23_5-7 **York Sample ID:** 25C0156-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:45 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0044	0.0088	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0044	0.0088	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB23_5-7 **York Sample ID:** 25C0156-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:45 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0066	0.013	1	EPA 8260D	03/06/2025 12:00	03/07/2025 09:56	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*115 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0923	0.184	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0923	0.184	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0923	0.184	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB23_5-7 **York Sample ID:** 25C0156-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:45 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0923	0.184	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0923	0.184	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0923	0.184	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0923	0.184	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0923	0.184	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.185	0.369	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.185	0.369	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB23_5-7** **York Sample ID:** **25C0156-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:45 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.102**		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0923	0.184	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0923	0.184	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB23_5-7 **York Sample ID:** 25C0156-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:45 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E	mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0462	0.0923	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.185	0.369	2	EPA 8270E	03/12/2025 09:07	03/13/2025 10:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*78.8 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*69.5 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*66.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*69.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*78.8 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*74.7 %*	*24-116*

Sample Information

Client Sample ID: SB23_5-7 **York Sample ID:** 25C0156-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:45 pm	03/04/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	20.0	1	EPA 8270D SIM	03/11/2025 09:22	03/12/2025 22:09	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*72.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB23_5-7 **York Sample ID:** 25C0156-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:45 pm	03/04/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0360	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:13	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*85.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*66.4 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0182	1	EPA 8082A	03/11/2025 16:51	03/12/2025 23:01	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0182	1	EPA 8082A	03/11/2025 16:51	03/12/2025 23:01	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0182	1	EPA 8082A	03/11/2025 16:51	03/12/2025 23:01	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0182	1	EPA 8082A	03/11/2025 16:51	03/12/2025 23:01	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0182	1	EPA 8082A	03/11/2025 16:51	03/12/2025 23:01	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0182	1	EPA 8082A	03/11/2025 16:51	03/12/2025 23:01	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0182	1	EPA 8082A	03/11/2025 16:51	03/12/2025 23:01	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0182	1	EPA 8082A	03/11/2025 16:51	03/12/2025 23:01	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*73.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*70.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB23_5-7** **York Sample ID:** **25C0156-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:45 pm	03/04/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0218	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:46	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0218	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:46	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0218	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:46	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*91.2 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9950**		mg/kg dry	4.62	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.31	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**1.62**		mg/kg dry	1.39	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**109**		mg/kg dry	2.31	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.377**		mg/kg dry	0.047	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.277	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1310**		mg/kg dry	4.62	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**49.2**		mg/kg dry	0.463	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**13.3**		mg/kg dry	0.370	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**19.2**		mg/kg dry	1.85	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**17400**	M-CCV 1	mg/kg dry	23.1	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**7.91**		mg/kg dry	0.463	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**4920**		mg/kg dry	4.63	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**449**		mg/kg dry	0.463	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**112**		mg/kg dry	0.921	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB23_5-7** **York Sample ID:** **25C0156-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:45 pm	03/04/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1890**		mg/kg dry	4.63	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.31	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.466	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**848**		mg/kg dry	46.2	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.85	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**28.6**		mg/kg dry	0.921	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**27.7**		mg/kg dry	2.30	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0333	1	EPA 7473	03/07/2025 12:04	03/07/2025 19:00	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.555	1	EPA 7196A	03/11/2025 07:09	03/11/2025 12:10	SMM
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**49.2**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.555	1	EPA 9014/9010C	03/07/2025 08:47	03/07/2025 16:22	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB23_5-7** **York Sample ID:** **25C0156-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:45 pm	03/04/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.1**		%	0.100	1	SM 2540G	03/06/2025 11:45	03/06/2025 12:25	BF
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SODUP04_030425** **York Sample ID:** **25C0156-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:00 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.052	0.10	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SODUP04_030425 **York Sample ID:** 25C0156-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:00 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	CCVE, ICVE	mg/kg dry	0.0052	0.010	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0052	0.010	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SODUP04_030425 **York Sample ID:** 25C0156-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:00 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0052	0.010	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0052	0.010	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SODUP04_030425** **York Sample ID:** **25C0156-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:00 pm	03/04/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0078	0.016	1	EPA 8260D	03/06/2025 12:00	03/07/2025 10:21	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*115 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0909	0.182	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SODUP04_030425** **York Sample ID:** **25C0156-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:00 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0909	0.182	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.182	0.364	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.182	0.364	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SODUP04_030425** **York Sample ID:** **25C0156-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:00 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.0821**	J	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SODUP04_030425** **York Sample ID:** **25C0156-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:00 pm	03/04/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.182	0.364	2	EPA 8270E	03/12/2025 09:07	03/13/2025 11:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*69.0 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*63.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*57.8 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*61.8 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*79.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*75.6 %*	*24-116*

Sample Information

Client Sample ID: **SODUP04_030425** **York Sample ID:** **25C0156-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:00 pm	03/04/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.0	1	EPA 8270D SIM	03/11/2025 09:22	03/12/2025 22:24	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*66.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: **SODUP04_030425** **York Sample ID:** **25C0156-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:00 pm	03/04/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.180	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0360	5	EPA 8081B	03/11/2025 16:54	03/12/2025 19:28	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*83.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*65.2 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0179	1	EPA 8082A	03/11/2025 16:51	03/12/2025 23:15	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0179	1	EPA 8082A	03/11/2025 16:51	03/12/2025 23:15	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0179	1	EPA 8082A	03/11/2025 16:51	03/12/2025 23:15	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0179	1	EPA 8082A	03/11/2025 16:51	03/12/2025 23:15	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0179	1	EPA 8082A	03/11/2025 16:51	03/12/2025 23:15	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0179	1	EPA 8082A	03/11/2025 16:51	03/12/2025 23:15	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0179	1	EPA 8082A	03/11/2025 16:51	03/12/2025 23:15	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0179	1	EPA 8082A	03/11/2025 16:51	03/12/2025 23:15	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*74.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*72.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SODUP04_030425** **York Sample ID:** **25C0156-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:00 pm	03/04/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0219	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:53	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0219	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:53	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0219	1	EPA 8151A	03/11/2025 09:24	03/12/2025 20:53	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*98.6 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**14600**		mg/kg dry	4.57	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.29	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		mg/kg dry	1.37	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**158**		mg/kg dry	2.28	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.244**		mg/kg dry	0.046	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.274	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1600**		mg/kg dry	4.57	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**53.9**		mg/kg dry	0.458	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**16.8**		mg/kg dry	0.366	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**45.0**		mg/kg dry	1.83	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**22000**	M-CCV 1	mg/kg dry	22.9	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**2.36**		mg/kg dry	0.458	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**6590**		mg/kg dry	4.58	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**465**		mg/kg dry	0.458	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**94.8**		mg/kg dry	0.911	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SODUP04_030425** **York Sample ID:** **25C0156-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:00 pm	03/04/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**4970**		mg/kg dry	4.58	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.29	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.461	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**304**		mg/kg dry	45.7	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.83	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**39.8**		mg/kg dry	0.911	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**37.2**		mg/kg dry	2.28	1	EPA 6010D	03/09/2025 09:03	03/10/2025 12:08	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0329	1	EPA 7473	03/07/2025 12:04	03/07/2025 19:00	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.549	1	EPA 7196A	03/11/2025 07:09	03/11/2025 12:10	SMM
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**53.9**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.549	1	EPA 9014/9010C	03/07/2025 08:47	03/07/2025 16:22	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SODUP04_030425** **York Sample ID:** **25C0156-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0156	170773001	Soil	March 4, 2025 3:00 pm	03/04/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.1**		%	0.100	1	SM 2540G	03/06/2025 11:45	03/06/2025 12:25	BF
							Certifications: CTDOH-PH-0723			

Analytical Batch Summary

Batch ID: BC50407 **Preparation Method:** % Solids Prep **Prepared By:** SMM

YORK Sample ID	Client Sample ID	Preparation Date
25C0156-01	SB19_0-2	03/06/25
25C0156-02	SB19_5-7	03/06/25
25C0156-03	SB18_0-2	03/06/25
25C0156-04	SB18_5-7	03/06/25
25C0156-05	SB17_0-2	03/06/25
25C0156-06	SB17_5-7	03/06/25
25C0156-07	SB16_0-2	03/06/25
25C0156-08	SB16_5-7	03/06/25
25C0156-09	SB21_0-2	03/06/25
25C0156-10	SB21_5-7	03/06/25
25C0156-11	SB22_0-2	03/06/25
25C0156-12	SB22_5-7	03/06/25
25C0156-13	SB23_0-2	03/06/25
25C0156-14	SB23_5-7	03/06/25
25C0156-15	SODUP04_030425	03/06/25
BC50407-DUP1	Duplicate	03/06/25

Batch ID: BC50502 **Preparation Method:** Analysis Preparation Soil **Prepared By:** LJM

YORK Sample ID	Client Sample ID	Preparation Date
25C0156-01	SB19_0-2	03/07/25
25C0156-02	SB19_5-7	03/07/25
25C0156-03	SB18_0-2	03/07/25
25C0156-04	SB18_5-7	03/07/25
25C0156-05	SB17_0-2	03/07/25
25C0156-06	SB17_5-7	03/07/25
25C0156-07	SB16_0-2	03/07/25
25C0156-08	SB16_5-7	03/07/25
25C0156-09	SB21_0-2	03/07/25
25C0156-10	SB21_5-7	03/07/25
25C0156-11	SB22_0-2	03/07/25
25C0156-12	SB22_5-7	03/07/25
25C0156-13	SB23_0-2	03/07/25
25C0156-14	SB23_5-7	03/07/25
25C0156-15	SODUP04_030425	03/07/25
BC50502-BLK1	Blank	03/07/25
BC50502-DUP1	Duplicate	03/07/25
BC50502-MS1	Matrix Spike	03/07/25
BC50502-MSD1	Matrix Spike Dup	03/07/25
BC50502-SRM1	Reference	03/07/25

Batch ID: BC50531 **Preparation Method:** EPA 7473 soil **Prepared By:** DRS

YORK Sample ID	Client Sample ID	Preparation Date
25C0156-01	SB19_0-2	03/07/25

25C0156-02	SB19_5-7	03/07/25
25C0156-03	SB18_0-2	03/07/25
25C0156-04	SB18_5-7	03/07/25
25C0156-05	SB17_0-2	03/07/25
25C0156-07	SB16_0-2	03/07/25
25C0156-08	SB16_5-7	03/07/25
25C0156-09	SB21_0-2	03/07/25
25C0156-10	SB21_5-7	03/07/25
25C0156-11	SB22_0-2	03/07/25
25C0156-12	SB22_5-7	03/07/25
25C0156-13	SB23_0-2	03/07/25
25C0156-14	SB23_5-7	03/07/25
25C0156-15	SODUP04_030425	03/07/25
BC50531-BLK1	Blank	03/07/25
BC50531-SRM1	Reference	03/07/25

Batch ID: BC50573 **Preparation Method:** EPA 5035A **Prepared By:** AC

YORK Sample ID	Client Sample ID	Preparation Date
25C0156-01	SB19_0-2	03/06/25
25C0156-02	SB19_5-7	03/06/25
25C0156-03	SB18_0-2	03/06/25
25C0156-04	SB18_5-7	03/06/25
25C0156-05	SB17_0-2	03/06/25
25C0156-06	SB17_5-7	03/06/25
25C0156-07	SB16_0-2	03/06/25
25C0156-08	SB16_5-7	03/06/25
25C0156-09	SB21_0-2	03/06/25
25C0156-10	SB21_5-7	03/06/25
25C0156-11	SB22_0-2	03/06/25
25C0156-12	SB22_5-7	03/06/25
25C0156-13	SB23_0-2	03/06/25
25C0156-14	SB23_5-7	03/06/25
25C0156-15	SODUP04_030425	03/06/25
BC50573-BLK1	Blank	03/06/25
BC50573-BS1	LCS	03/06/25
BC50573-BSD1	LCS Dup	03/06/25
BC50573-MS1	Matrix Spike	03/06/25
BC50573-MSD1	Matrix Spike Dup	03/06/25

Batch ID: BC50574 **Preparation Method:** EPA 7473 soil **Prepared By:** DRS

YORK Sample ID	Client Sample ID	Preparation Date
25C0156-06	SB17_5-7	03/07/25
BC50574-BLK1	Blank	03/07/25
BC50574-DUP1	Duplicate	03/07/25
BC50574-MS1	Matrix Spike	03/07/25
BC50574-SRM1	Reference	03/07/25

Batch ID: BC50610 **Preparation Method:** EPA 3050B **Prepared By:** KMQ

YORK Sample ID	Client Sample ID	Preparation Date
25C0156-01	SB19_0-2	03/09/25
BC50610-BLK1	Blank	03/09/25
BC50610-DUP1	Duplicate	03/09/25
BC50610-MS1	Matrix Spike	03/09/25
BC50610-PS1	Post Spike	03/09/25
BC50610-SRM1	Reference	03/09/25

Batch ID: BC50611 **Preparation Method:** EPA 3050B **Prepared By:** KMQ

YORK Sample ID	Client Sample ID	Preparation Date
25C0156-02	SB19_5-7	03/09/25
25C0156-03	SB18_0-2	03/09/25
25C0156-04	SB18_5-7	03/09/25
25C0156-05	SB17_0-2	03/09/25
25C0156-06	SB17_5-7	03/09/25
25C0156-07	SB16_0-2	03/09/25
25C0156-08	SB16_5-7	03/09/25
25C0156-09	SB21_0-2	03/09/25
25C0156-10	SB21_5-7	03/09/25
25C0156-11	SB22_0-2	03/09/25
25C0156-12	SB22_5-7	03/09/25
25C0156-13	SB23_0-2	03/09/25
25C0156-14	SB23_5-7	03/09/25
25C0156-15	SODUP04_030425	03/09/25
BC50611-BLK1	Blank	03/09/25
BC50611-DUP1	Duplicate	03/09/25
BC50611-MS1	Matrix Spike	03/09/25
BC50611-PS1	Post Spike	03/09/25
BC50611-SRM1	Reference	03/09/25

Batch ID: BC50645 **Preparation Method:** EPA SW846-3060 **Prepared By:** JAMT

YORK Sample ID	Client Sample ID	Preparation Date
25C0156-01	SB19_0-2	03/10/25
BC50645-BLK1	Blank	03/10/25
BC50645-SRM1	Reference	03/10/25

Batch ID: BC50696 **Preparation Method:** EPA SW846-3060 **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0156-02	SB19_5-7	03/10/25
25C0156-03	SB18_0-2	03/10/25
25C0156-04	SB18_5-7	03/10/25
25C0156-05	SB17_0-2	03/10/25
25C0156-07	SB16_0-2	03/10/25
25C0156-08	SB16_5-7	03/10/25
25C0156-09	SB21_0-2	03/10/25

25C0156-10	SB21_5-7	03/10/25
25C0156-11	SB22_0-2	03/10/25
25C0156-12	SB22_5-7	03/10/25
BC50696-BLK1	Blank	03/10/25
BC50696-SRM1	Reference	03/10/25

Batch ID: BC50715 **Preparation Method:** EPA 3550C/8151A **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
25C0156-01	SB19_0-2	03/11/25
25C0156-02	SB19_5-7	03/11/25
25C0156-03	SB18_0-2	03/11/25
25C0156-04	SB18_5-7	03/11/25
BC50715-BLK1	Blank	03/11/25
BC50715-BS1	LCS	03/11/25

Batch ID: BC50740 **Preparation Method:** EPA SW846-3060 **Prepared By:** SMM

YORK Sample ID	Client Sample ID	Preparation Date
25C0156-06	SB17_5-7	03/11/25
25C0156-13	SB23_0-2	03/11/25
25C0156-14	SB23_5-7	03/11/25
25C0156-15	SODUP04_030425	03/11/25
BC50740-BLK1	Blank	03/11/25
BC50740-DUP1	Duplicate	03/11/25
BC50740-MS1	Matrix Spike	03/11/25
BC50740-MSD1	Matrix Spike Dup	03/11/25
BC50740-SRM1	Reference	03/11/25

Batch ID: BC50764 **Preparation Method:** EPA 3550C **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
25C0156-09	SB21_0-2	03/11/25
25C0156-10	SB21_5-7	03/11/25
25C0156-11	SB22_0-2	03/11/25
25C0156-12	SB22_5-7	03/11/25
25C0156-13	SB23_0-2	03/11/25
25C0156-14	SB23_5-7	03/11/25
25C0156-15	SODUP04_030425	03/11/25
BC50764-BLK1	Blank	03/11/25
BC50764-BS1	LCS	03/11/25

Batch ID: BC50765 **Preparation Method:** EPA 3550C/8151A **Prepared By:** JAA

YORK Sample ID	Client Sample ID	Preparation Date
25C0156-05	SB17_0-2	03/11/25
25C0156-06	SB17_5-7	03/11/25
25C0156-07	SB16_0-2	03/11/25
25C0156-08	SB16_5-7	03/11/25

25C0156-09	SB21_0-2	03/11/25
25C0156-10	SB21_5-7	03/11/25
25C0156-11	SB22_0-2	03/11/25
25C0156-12	SB22_5-7	03/11/25
25C0156-13	SB23_0-2	03/11/25
25C0156-14	SB23_5-7	03/11/25
25C0156-15	SODUP04_030425	03/11/25
BC50765-BLK1	Blank	03/11/25
BC50765-BS1	LCS	03/11/25
BC50765-MS1	Matrix Spike	03/11/25
BC50765-MSD1	Matrix Spike Dup	03/11/25

Batch ID: BC50799 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0156-01	SB19_0-2	03/11/25
25C0156-02	SB19_5-7	03/11/25
25C0156-03	SB18_0-2	03/11/25
25C0156-04	SB18_5-7	03/11/25
25C0156-05	SB17_0-2	03/11/25
25C0156-06	SB17_5-7	03/11/25
25C0156-07	SB16_0-2	03/11/25
25C0156-08	SB16_5-7	03/11/25
25C0156-09	SB21_0-2	03/11/25
25C0156-10	SB21_5-7	03/11/25
25C0156-11	SB22_0-2	03/11/25
25C0156-12	SB22_5-7	03/11/25
25C0156-13	SB23_0-2	03/11/25
25C0156-14	SB23_5-7	03/11/25
25C0156-15	SODUP04_030425	03/11/25

Batch ID: BC50815 **Preparation Method:** EPA 3550C **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
25C0156-01	SB19_0-2	03/11/25
25C0156-02	SB19_5-7	03/11/25
25C0156-03	SB18_0-2	03/11/25
25C0156-04	SB18_5-7	03/11/25
25C0156-05	SB17_0-2	03/11/25
25C0156-06	SB17_5-7	03/11/25
25C0156-07	SB16_0-2	03/11/25
25C0156-08	SB16_5-7	03/11/25
25C0156-09	SB21_0-2	03/11/25
BC50815-BLK1	Blank	03/11/25
BC50815-BS2	LCS	03/11/25
BC50815-MS2	Matrix Spike	03/11/25
BC50815-MSD2	Matrix Spike Dup	03/11/25

Batch ID: BC50817 **Preparation Method:** EPA 3550C **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
25C0156-01	SB19_0-2	03/11/25
25C0156-02	SB19_5-7	03/11/25
25C0156-03	SB18_0-2	03/11/25
25C0156-04	SB18_5-7	03/11/25
25C0156-05	SB17_0-2	03/11/25
25C0156-06	SB17_5-7	03/11/25
25C0156-07	SB16_0-2	03/11/25
25C0156-08	SB16_5-7	03/11/25
25C0156-09	SB21_0-2	03/11/25
BC50817-BLK1	Blank	03/11/25
BC50817-BS1	LCS	03/11/25
BC50817-MS1	Matrix Spike	03/11/25
BC50817-MSD1	Matrix Spike Dup	03/11/25

Batch ID: BC50820 **Preparation Method:** EPA 3550C **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
25C0156-01	SB19_0-2	03/11/25
25C0156-02	SB19_5-7	03/11/25
25C0156-03	SB18_0-2	03/11/25
25C0156-04	SB18_5-7	03/11/25
25C0156-05	SB17_0-2	03/11/25
25C0156-06	SB17_5-7	03/11/25
25C0156-07	SB16_0-2	03/11/25
25C0156-08	SB16_5-7	03/11/25
25C0156-09	SB21_0-2	03/11/25
25C0156-09RE1	SB21_0-2	03/11/25
25C0156-10	SB21_5-7	03/11/25
25C0156-11	SB22_0-2	03/11/25
25C0156-12	SB22_5-7	03/11/25
BC50820-BLK1	Blank	03/11/25
BC50820-BS1	LCS	03/11/25
BC50820-MS1	Matrix Spike	03/11/25
BC50820-MSD1	Matrix Spike Dup	03/11/25

Batch ID: BC50821 **Preparation Method:** EPA 3550C **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
25C0156-10	SB21_5-7	03/11/25
25C0156-11	SB22_0-2	03/11/25
25C0156-12	SB22_5-7	03/11/25
25C0156-13	SB23_0-2	03/11/25
25C0156-14	SB23_5-7	03/11/25
25C0156-15	SODUP04_030425	03/11/25
BC50821-BLK1	Blank	03/11/25
BC50821-BS2	LCS	03/11/25

Batch ID: BC50822 **Preparation Method:** EPA 3550C **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
25C0156-10	SB21_5-7	03/11/25
25C0156-11	SB22_0-2	03/11/25
25C0156-12	SB22_5-7	03/11/25
25C0156-13	SB23_0-2	03/11/25
25C0156-14	SB23_5-7	03/11/25
25C0156-15	SODUP04_030425	03/11/25
BC50822-BLK1	Blank	03/11/25
BC50822-BS1	LCS	03/11/25

Batch ID: BC50862 **Preparation Method:** EPA 3550C **Prepared By:** JAA

YORK Sample ID	Client Sample ID	Preparation Date
25C0156-01	SB19_0-2	03/12/25
25C0156-02	SB19_5-7	03/12/25
25C0156-03	SB18_0-2	03/12/25
25C0156-04	SB18_5-7	03/12/25
25C0156-05	SB17_0-2	03/12/25
25C0156-06	SB17_5-7	03/12/25
25C0156-07	SB16_0-2	03/12/25
25C0156-08	SB16_5-7	03/12/25
BC50862-BLK1	Blank	03/12/25
BC50862-BS1	LCS	03/12/25
BC50862-MS1	Matrix Spike	03/12/25
BC50862-MSD1	Matrix Spike Dup	03/12/25

Batch ID: BC50863 **Preparation Method:** EPA 3550C **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
25C0156-13	SB23_0-2	03/12/25
25C0156-14	SB23_5-7	03/12/25
25C0156-15	SODUP04_030425	03/12/25

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50573 - EPA 5035A											
Blank (BC50573-BLK1) Blank									Prepared: 03/06/2025 Analyzed: 03/07/2025		
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50573 - EPA 5035A											
Blank (BC50573-BLK1) Blank								Prepared: 03/06/2025 Analyzed: 03/07/2025			
n-Butylbenzene	ND	0.0050	mg/kg wet								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.1*		*ug/L*	*50.0*		*102*	*77-125*				
Surrogate: SURR: Toluene-d8	*53.1*		*"*	*50.0*		*106*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*52.6*		*"*	*50.0*		*105*	*76-130*				
LCS (BC50573-BS1) LCS								Prepared: 03/06/2025 Analyzed: 03/07/2025			
1,1,1,2-Tetrachloroethane	51.9		ug/L	50.0		104	75-129				
1,1,1-Trichloroethane	50.1		"	50.0		100	71-137				
1,1,2,2-Tetrachloroethane	57.9		"	50.0		116	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53.2		"	50.0		106	58-146				
1,1,2-Trichloroethane	53.7		"	50.0		107	83-123				
1,1-Dichloroethane	55.4		"	50.0		111	75-130				
1,1-Dichloroethylene	57.8		"	50.0		116	64-137				
1,2,3-Trichlorobenzene	49.1		"	50.0		98.1	81-140				
1,2,3-Trichloropropane	56.4		"	50.0		113	81-126				
1,2,4-Trichlorobenzene	49.5		"	50.0		98.9	80-141				
1,2,4-Trimethylbenzene	54.6		"	50.0		109	84-125				
1,2-Dibromo-3-chloropropane	55.5		"	50.0		111	74-142				
1,2-Dibromoethane	52.2		"	50.0		104	86-123				
1,2-Dichlorobenzene	53.2		"	50.0		106	85-122				
1,2-Dichloroethane	54.9		"	50.0		110	71-133				
1,2-Dichloropropane	56.3		"	50.0		113	81-122				
1,3,5-Trimethylbenzene	55.3		"	50.0		111	82-126				
1,3-Dichlorobenzene	51.6		"	50.0		103	84-124				
1,4-Dichlorobenzene	51.9		"	50.0		104	84-124				
1,4-Dioxane	1040		"	1050		99.2	10-228				
2-Butanone	43.3		"	50.0		86.7	58-147				
2-Hexanone	41.9		"	50.0		83.7	70-139				
4-Methyl-2-pentanone	36.4		"	50.0		72.9	72-132				
Acetone	26.9		"	50.0		53.9	36-155				
Acrolein	46.7		"	50.0		93.5	10-238				
Acrylonitrile	56.7		"	50.0		113	66-141				
Benzene	53.2		"	50.0		106	77-127				
Bromochloromethane	52.4		"	50.0		105	74-129				
Bromodichloromethane	59.3		"	50.0		119	81-124				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50573 - EPA 5035A											
LCS (BC50573-BS1) LCS								Prepared: 03/06/2025 Analyzed: 03/07/2025			
Bromoform	55.7		ug/L	50.0		111	80-136				
Bromomethane	68.8		"	50.0		138	32-177				
Carbon disulfide	55.3		"	50.0		111	10-136				
Carbon tetrachloride	52.0		"	50.0		104	66-143				
Chlorobenzene	52.2		"	50.0		104	86-120				
Chloroethane	55.1		"	50.0		110	51-142				
Chloroform	53.6		"	50.0		107	76-131				
Chloromethane	46.1		"	50.0		92.2	49-132				
cis-1,2-Dichloroethylene	52.6		"	50.0		105	74-132				
cis-1,3-Dichloropropylene	48.0		"	50.0		95.9	81-129				
Cyclohexane	54.8		"	50.0		110	70-130				
Dibromochloromethane	59.1		"	50.0		118	10-200				
Dibromomethane	53.8		"	50.0		108	83-124				
Dichlorodifluoromethane	57.2		"	50.0		114	28-158				
Ethyl Benzene	56.0		"	50.0		112	84-125				
Hexachlorobutadiene	46.4		"	50.0		92.8	83-133				
Isopropylbenzene	55.6		"	50.0		111	81-127				
Methyl acetate	34.2		"	50.0		68.4	41-143				
Methyl tert-butyl ether (MTBE)	43.0		"	50.0		86.1	74-131				
Methylcyclohexane	50.9		"	50.0		102	70-130				
Methylene chloride	51.8		"	50.0		104	57-141				
n-Butylbenzene	55.2		"	50.0		110	80-130				
n-Propylbenzene	55.9		"	50.0		112	74-136				
o-Xylene	53.9		"	50.0		108	83-123				
p- & m- Xylenes	109		"	100		109	82-128				
p-Isopropyltoluene	56.9		"	50.0		114	85-125				
sec-Butylbenzene	55.1		"	50.0		110	83-125				
Styrene	55.2		"	50.0		110	86-126				
tert-Butyl alcohol (TBA)	159		"	250		63.5	70-130	Low Bias			
tert-Butylbenzene	48.2		"	50.0		96.4	80-127				
Tetrachloroethylene	42.8		"	50.0		85.7	80-129				
Toluene	54.2		"	50.0		108	85-121				
trans-1,2-Dichloroethylene	55.5		"	50.0		111	72-132				
trans-1,3-Dichloropropylene	44.5		"	50.0		89.0	78-132				
Trichloroethylene	54.6		"	50.0		109	84-123				
Trichlorofluoromethane	53.5		"	50.0		107	62-140				
Vinyl Chloride	56.4		"	50.0		113	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*52.5*		*"*	*50.0*		*105*	*77-125*				
Surrogate: SURR: Toluene-d8	*52.8*		*"*	*50.0*		*106*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*51.4*		*"*	*50.0*		*103*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50573 - EPA 5035A											
LCS Dup (BC50573-BSD1) LCS Dup								Prepared: 03/06/2025 Analyzed: 03/07/2025			
1,1,1,2-Tetrachloroethane	51.5		ug/L	50.0		103	75-129		0.696	30	
1,1,1-Trichloroethane	47.5		"	50.0		95.1	71-137		5.28	30	
1,1,2,2-Tetrachloroethane	56.4		"	50.0		113	79-129		2.66	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51.2		"	50.0		102	58-146		3.87	30	
1,1,2-Trichloroethane	52.7		"	50.0		105	83-123		1.90	30	
1,1-Dichloroethane	53.1		"	50.0		106	75-130		4.33	30	
1,1-Dichloroethylene	57.2		"	50.0		114	64-137		1.06	30	
1,2,3-Trichlorobenzene	47.5		"	50.0		95.0	81-140		3.25	30	
1,2,3-Trichloropropane	54.6		"	50.0		109	81-126		3.28	30	
1,2,4-Trichlorobenzene	45.9		"	50.0		91.9	80-141		7.40	30	
1,2,4-Trimethylbenzene	53.9		"	50.0		108	84-125		1.31	30	
1,2-Dibromo-3-chloropropane	53.5		"	50.0		107	74-142		3.80	30	
1,2-Dibromoethane	51.2		"	50.0		102	86-123		1.95	30	
1,2-Dichlorobenzene	51.5		"	50.0		103	85-122		3.31	30	
1,2-Dichloroethane	52.1		"	50.0		104	71-133		5.25	30	
1,2-Dichloropropane	57.0		"	50.0		114	81-122		1.36	30	
1,3,5-Trimethylbenzene	54.0		"	50.0		108	82-126		2.27	30	
1,3-Dichlorobenzene	50.0		"	50.0		100	84-124		3.15	30	
1,4-Dichlorobenzene	50.3		"	50.0		101	84-124		3.21	30	
1,4-Dioxane	1040		"	1050		98.8	10-228		0.416	30	
2-Butanone	41.5		"	50.0		83.0	58-147		4.31	30	
2-Hexanone	41.3		"	50.0		82.7	70-139		1.25	30	
4-Methyl-2-pentanone	35.2		"	50.0		70.3	72-132	Low Bias	3.55	30	
Acetone	25.2		"	50.0		50.3	36-155		6.79	30	
Acrolein	37.9		"	50.0		75.8	10-238		20.9	30	
Acrylonitrile	52.8		"	50.0		106	66-141		7.03	30	
Benzene	52.2		"	50.0		104	77-127		1.90	30	
Bromochloromethane	50.0		"	50.0		100	74-129		4.74	30	
Bromodichloromethane	57.8		"	50.0		116	81-124		2.56	30	
Bromoform	53.1		"	50.0		106	80-136		4.87	30	
Bromomethane	67.9		"	50.0		136	32-177		1.33	30	
Carbon disulfide	54.0		"	50.0		108	10-136		2.36	30	
Carbon tetrachloride	50.0		"	50.0		100	66-143		3.92	30	
Chlorobenzene	51.5		"	50.0		103	86-120		1.47	30	
Chloroethane	55.9		"	50.0		112	51-142		1.50	30	
Chloroform	53.2		"	50.0		106	76-131		0.749	30	
Chloromethane	47.2		"	50.0		94.5	49-132		2.40	30	
cis-1,2-Dichloroethylene	51.8		"	50.0		104	74-132		1.57	30	
cis-1,3-Dichloropropylene	47.3		"	50.0		94.6	81-129		1.39	30	
Cyclohexane	53.3		"	50.0		107	70-130		2.74	30	
Dibromochloromethane	56.6		"	50.0		113	10-200		4.23	30	
Dibromomethane	52.0		"	50.0		104	83-124		3.46	30	
Dichlorodifluoromethane	54.7		"	50.0		109	28-158		4.41	30	
Ethyl Benzene	55.0		"	50.0		110	84-125		1.95	30	
Hexachlorobutadiene	46.2		"	50.0		92.5	83-133		0.367	30	
Isopropylbenzene	55.3		"	50.0		111	81-127		0.685	30	
Methyl acetate	32.5		"	50.0		65.0	41-143		5.10	30	
Methyl tert-butyl ether (MTBE)	41.6		"	50.0		83.1	74-131		3.48	30	
Methylcyclohexane	50.6		"	50.0		101	70-130		0.473	30	
Methylene chloride	49.9		"	50.0		99.8	57-141		3.72	30	
n-Butylbenzene	54.6		"	50.0		109	80-130		1.18	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50573 - EPA 5035A											
LCS Dup (BC50573-BSD1) LCS Dup								Prepared: 03/06/2025 Analyzed: 03/07/2025			
n-Propylbenzene	55.5		ug/L	50.0		111	74-136		0.772	30	
o-Xylene	54.1		"	50.0		108	83-123		0.371	30	
p- & m- Xylenes	108		"	100		108	82-128		0.699	30	
p-Isopropyltoluene	55.8		"	50.0		112	85-125		1.93	30	
sec-Butylbenzene	54.3		"	50.0		109	83-125		1.44	30	
Styrene	54.3		"	50.0		109	86-126		1.61	30	
tert-Butyl alcohol (TBA)	150		"	250		60.2	70-130	Low Bias	5.37	30	
tert-Butylbenzene	47.7		"	50.0		95.4	80-127		1.04	30	
Tetrachloroethylene	42.7		"	50.0		85.4	80-129		0.351	30	
Toluene	53.8		"	50.0		108	85-121		0.815	30	
trans-1,2-Dichloroethylene	52.7		"	50.0		105	72-132		5.25	30	
trans-1,3-Dichloropropylene	43.6		"	50.0		87.1	78-132		2.16	30	
Trichloroethylene	54.7		"	50.0		109	84-123		0.110	30	
Trichlorofluoromethane	51.4		"	50.0		103	62-140		3.98	30	
Vinyl Chloride	55.3		"	50.0		111	52-130		1.95	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.0*		*"*	*50.0*		*99.9*	*77-125*				
Surrogate: SURR: Toluene-d8	*53.4*		*"*	*50.0*		*107*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*51.2*		*"*	*50.0*		*102*	*76-130*				
Matrix Spike (BC50573-MS1) Matrix Spike *Source sample: 25C0156-06 (SB17_5-7)								Prepared: 03/06/2025 Analyzed: 03/07/2025			
1,1,1,2-Tetrachloroethane	44.2		ug/L	50.0	0.00	88.5	15-161				
1,1,1-Trichloroethane	38.4		"	50.0	0.00	76.7	42-145				
1,1,2,2-Tetrachloroethane	52.9		"	50.0	0.00	106	16-167				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	28.1		"	50.0	0.00	56.2	11-160				
1,1,2-Trichloroethane	50.4		"	50.0	0.00	101	44-145				
1,1-Dichloroethane	41.7		"	50.0	0.00	83.3	46-142				
1,1-Dichloroethylene	33.4		"	50.0	0.00	66.7	30-153				
1,2,3-Trichlorobenzene	24.8		"	50.0	0.00	49.5	10-157				
1,2,3-Trichloropropane	54.4		"	50.0	0.00	109	38-155				
1,2,4-Trichlorobenzene	25.1		"	50.0	0.00	50.3	10-151				
1,2,4-Trimethylbenzene	38.8		"	50.0	0.00	77.6	10-170				
1,2-Dibromo-3-chloropropane	49.8		"	50.0	0.00	99.6	36-138				
1,2-Dibromoethane	47.4		"	50.0	0.00	94.8	40-142				
1,2-Dichlorobenzene	34.6		"	50.0	0.00	69.1	10-147				
1,2-Dichloroethane	53.1		"	50.0	0.00	106	48-133				
1,2-Dichloropropane	49.2		"	50.0	0.00	98.5	47-141				
1,3,5-Trimethylbenzene	39.6		"	50.0	0.00	79.2	10-150				
1,3-Dichlorobenzene	33.3		"	50.0	0.00	66.6	10-144				
1,4-Dichlorobenzene	32.9		"	50.0	0.00	65.7	10-160				
1,4-Dioxane	1300		"	1050	0.00	124	10-191				
2-Butanone	25.6		"	50.0	0.00	51.2	10-189				
2-Hexanone	15.9		"	50.0	0.00	31.7	10-181				
4-Methyl-2-pentanone	26.8		"	50.0	0.00	53.5	10-166				
Acetone	40.7		"	50.0	0.00	81.3	10-196				
Acrolein	0.00		"	50.0	0.00		10-192	Low Bias			
Acrylonitrile	24.7		"	50.0	0.00	49.4	13-161				
Benzene	39.8		"	50.0	0.00	79.7	43-139				
Bromochloromethane	44.7		"	50.0	0.00	89.4	38-145				
Bromodichloromethane	52.6		"	50.0	0.00	105	38-147				
Bromoform	50.1		"	50.0	0.00	100	29-156				
Bromomethane	27.5		"	50.0	0.00	55.1	10-166				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50573 - EPA 5035A											
Matrix Spike (BC50573-MS1) Matrix Spike	*Source sample: 25C0156-06 (SB17_5-7)							Prepared: 03/06/2025 Analyzed: 03/07/2025			
Carbon disulfide	25.1		ug/L	50.0	0.00	50.2	10-131				
Carbon tetrachloride	40.4		"	50.0	0.00	80.8	35-145				
Chlorobenzene	40.0		"	50.0	0.00	80.0	21-154				
Chloroethane	27.8		"	50.0	0.00	55.6	15-160				
Chloroform	46.4		"	50.0	0.00	92.8	47-142				
Chloromethane	13.7		"	50.0	0.00	27.5	10-159				
cis-1,2-Dichloroethylene	41.4		"	50.0	0.00	82.9	42-144				
cis-1,3-Dichloropropylene	35.0		"	50.0	0.00	70.1	18-159				
Cyclohexane	34.4		"	50.0	0.00	68.9	70-130	Low Bias			
Dibromochloromethane	52.4		"	50.0	0.00	105	10-179				
Dibromomethane	51.4		"	50.0	0.00	103	47-143				
Dichlorodifluoromethane	9.70		"	50.0	0.00	19.4	10-145				
Ethyl Benzene	43.2		"	50.0	0.00	86.5	11-158				
Hexachlorobutadiene	29.7		"	50.0	0.00	59.4	10-158				
Isopropylbenzene	41.2		"	50.0	0.00	82.3	10-162				
Methyl acetate	15.9		"	50.0	0.00	31.8	10-149				
Methyl tert-butyl ether (MTBE)	38.4		"	50.0	0.00	76.7	42-152				
Methylcyclohexane	35.2		"	50.0	0.00	70.4	70-130				
Methylene chloride	38.8		"	50.0	0.00	77.6	28-151				
n-Butylbenzene	38.3		"	50.0	0.00	76.6	10-162				
n-Propylbenzene	40.2		"	50.0	0.00	80.5	10-155				
o-Xylene	43.0		"	50.0	0.00	85.9	10-158				
p- & m- Xylenes	85.6		"	100	0.00	85.6	10-156				
p-Isopropyltoluene	39.7		"	50.0	0.00	79.4	10-147				
sec-Butylbenzene	39.7		"	50.0	0.00	79.3	10-157				
Styrene	31.1		"	50.0	0.00	62.1	13-171				
tert-Butyl alcohol (TBA)	154		"	250	0.00	61.7	34-179				
tert-Butylbenzene	35.2		"	50.0	0.00	70.4	10-160				
Tetrachloroethylene	32.6		"	50.0	0.00	65.1	30-167				
Toluene	41.6		"	50.0	0.00	83.2	21-160				
trans-1,2-Dichloroethylene	38.6		"	50.0	0.00	77.1	29-153				
trans-1,3-Dichloropropylene	34.3		"	50.0	0.00	68.6	18-155				
Trichloroethylene	42.0		"	50.0	0.00	84.0	24-169				
Trichlorofluoromethane	28.1		"	50.0	0.00	56.3	35-142				
Vinyl Chloride	19.8		"	50.0	0.00	39.6	12-160				
Surrogate: SURR: 1,2-Dichloroethane-d4	*56.4*		*"*	*50.0*		*113*	*77-125*				
Surrogate: SURR: Toluene-d8	*52.8*		*"*	*50.0*		*106*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*52.3*		*"*	*50.0*		*105*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Batch BC50573 - EPA 5035A

Matrix Spike Dup (BC50573-! Matrix Spike Dup *Source sample: 25C0156-06 (SB17_5-7) Prepared: 03/06/2025 Analyzed: 03/07/2025

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1,1,2-Tetrachloroethane	54.3		ug/L	50.0	0.00	109	15-161		20.4	33	
1,1,1-Trichloroethane	52.1		"	50.0	0.00	104	42-145		30.3	30	Non-dir.
1,1,2,2-Tetrachloroethane	56.6		"	50.0	0.00	113	16-167		6.85	56	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	34.6		"	50.0	0.00	69.1	11-160		20.6	31	
1,1,2-Trichloroethane	58.1		"	50.0	0.00	116	44-145		14.2	40	
1,1-Dichloroethane	54.8		"	50.0	0.00	110	46-142		27.2	36	
1,1-Dichloroethylene	46.4		"	50.0	0.00	92.9	30-153		32.8	31	Non-dir.
1,2,3-Trichlorobenzene	19.9		"	50.0	0.00	39.7	10-157		22.0	47	
1,2,3-Trichloropropane	56.6		"	50.0	0.00	113	38-155		3.85	48	
1,2,4-Trichlorobenzene	18.8		"	50.0	0.00	37.6	10-151		28.8	52	
1,2,4-Trimethylbenzene	38.9		"	50.0	0.00	77.8	10-170		0.335	242	
1,2-Dibromo-3-chloropropane	50.1		"	50.0	0.00	100	36-138		0.620	54	
1,2-Dibromoethane	54.5		"	50.0	0.00	109	40-142		14.0	39	
1,2-Dichlorobenzene	34.6		"	50.0	0.00	69.3	10-147		0.231	52	
1,2-Dichloroethane	59.0		"	50.0	0.00	118	48-133		10.6	32	
1,2-Dichloropropane	61.2		"	50.0	0.00	122	47-141		21.7	37	
1,3,5-Trimethylbenzene	39.5		"	50.0	0.00	79.0	10-150		0.278	62	
1,3-Dichlorobenzene	32.0		"	50.0	0.00	64.0	10-144		3.92	51	
1,4-Dichlorobenzene	31.6		"	50.0	0.00	63.2	10-160		3.94	52	
1,4-Dioxane	1210		"	1050	0.00	115	10-191		7.26	196	
2-Butanone	33.2		"	50.0	0.00	66.5	10-189		26.0	67	
2-Hexanone	24.0		"	50.0	0.00	47.9	10-181		40.7	60	
4-Methyl-2-pentanone	31.5		"	50.0	0.00	63.0	10-166		16.2	47	
Acetone	28.0		"	50.0	0.00	56.0	10-196		36.9	150	
Acrolein	0.00		"	50.0	0.00		10-192	Low Bias		128	
Acrylonitrile	34.5		"	50.0	0.00	69.0	13-161		33.1	48	
Benzene	52.0		"	50.0	0.00	104	43-139		26.4	64	
Bromochloromethane	53.1		"	50.0	0.00	106	38-145		17.1	30	
Bromodichloromethane	66.2		"	50.0	0.00	132	38-147		22.9	37	
Bromoform	55.7		"	50.0	0.00	111	29-156		10.6	51	
Bromomethane	41.3		"	50.0	0.00	82.6	10-166		40.0	42	
Carbon disulfide	31.1		"	50.0	0.00	62.1	10-131		21.3	36	
Carbon tetrachloride	52.8		"	50.0	0.00	106	35-145		26.5	31	
Chlorobenzene	46.7		"	50.0	0.00	93.4	21-154		15.5	32	
Chloroethane	38.0		"	50.0	0.00	76.1	15-160		31.1	40	
Chloroform	57.8		"	50.0	0.00	116	47-142		21.9	29	
Chloromethane	22.1		"	50.0	0.00	44.2	10-159		46.7	31	Non-dir.
cis-1,2-Dichloroethylene	53.0		"	50.0	0.00	106	42-144		24.5	30	
cis-1,3-Dichloropropylene	44.5		"	50.0	0.00	88.9	18-159		23.7	39	
Cyclohexane	41.5		"	50.0	0.00	83.0	70-130		18.6	30	
Dibromochloromethane	62.1		"	50.0	0.00	124	10-179		17.0	41	
Dibromomethane	58.0		"	50.0	0.00	116	47-143		12.0	41	
Dichlorodifluoromethane	12.2		"	50.0	0.00	24.5	10-145		23.2	34	
Ethyl Benzene	50.8		"	50.0	0.00	102	11-158		16.0	42	
Hexachlorobutadiene	23.1		"	50.0	0.00	46.1	10-158		25.1	45	
Isopropylbenzene	46.4		"	50.0	0.00	92.9	10-162		12.1	57	
Methyl acetate	17.1		"	50.0	0.00	34.2	10-149		7.28	64	
Methyl tert-butyl ether (MTBE)	42.4		"	50.0	0.00	84.9	42-152		10.0	47	
Methylcyclohexane	36.6		"	50.0	0.00	73.1	70-130		3.76	30	
Methylene chloride	50.4		"	50.0	0.00	101	28-151		26.1	49	
n-Butylbenzene	31.2		"	50.0	0.00	62.5	10-162		20.3	96	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50573 - EPA 5035A											
Matrix Spike Dup (BC50573-M Matrix Spike Dup	*Source sample: 25C0156-06 (SB17_5-7)							Prepared: 03/06/2025 Analyzed: 03/07/2025			
n-Propylbenzene	41.5		ug/L	50.0	0.00	83.0	10-155		3.13	56	
o-Xylene	49.4		"	50.0	0.00	98.9	10-158		14.0	51	
p- & m- Xylenes	95.1		"	100	0.00	95.1	10-156		10.5	47	
p-Isopropyltoluene	37.2		"	50.0	0.00	74.3	10-147		6.64	60	
sec-Butylbenzene	38.4		"	50.0	0.00	76.8	10-157		3.25	56	
Styrene	32.8		"	50.0	0.00	65.5	13-171		5.33	39	
tert-Butyl alcohol (TBA)	146		"	250	0.00	58.3	34-179		5.57	35	
tert-Butylbenzene	37.4		"	50.0	0.00	74.8	10-160		6.00	79	
Tetrachloroethylene	35.1		"	50.0	0.00	70.3	30-167		7.59	33	
Toluene	52.9		"	50.0	0.00	106	21-160		23.9	50	
trans-1,2-Dichloroethylene	47.4		"	50.0	0.00	94.7	29-153		20.4	30	
trans-1,3-Dichloropropylene	42.2		"	50.0	0.00	84.4	18-155		20.6	30	
Trichloroethylene	51.5		"	50.0	0.00	103	24-169		20.4	30	
Trichlorofluoromethane	35.8		"	50.0	0.00	71.6	35-142		24.0	30	
Vinyl Chloride	28.4		"	50.0	0.00	56.7	12-160		35.5	35	Non-dir.
Surrogate: SURR: 1,2-Dichloroethane-d4	*54.1*		*"*	*50.0*		*108*	*77-125*				
Surrogate: SURR: Toluene-d8	*52.3*		*"*	*50.0*		*105*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*52.4*		*"*	*50.0*		*105*	*76-130*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50820 - EPA 3550C											
Blank (BC50820-BLK1) Blank									Prepared: 03/11/2025 Analyzed: 03/12/2025		
1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								
Caprolactam	ND	0.0830	"								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50820 - EPA 3550C											
Blank (BC50820-BLK1) Blank									Prepared: 03/11/2025 Analyzed: 03/12/2025		
Dibenzofuran	ND	0.0416	mg/kg wet								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Pyridine	ND	0.166	"								
Surrogate: SURR: 2-Fluorophenol	*1.20*		*"*	*1.66*		*72.4*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.12*		*"*	*1.66*		*67.2*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.496*		*"*	*0.831*		*59.7*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.497*		*"*	*0.831*		*59.8*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.20*		*"*	*1.66*		*72.5*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.491*		*"*	*0.831*		*59.1*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50820 - EPA 3550C											
LCS (BC50820-BS1) LCS								Prepared: 03/11/2025 Analyzed: 03/12/2025			
1,1-Biphenyl	0.595	0.0416	mg/kg wet	0.831		71.6	18-111				
1,2,4,5-Tetrachlorobenzene	0.593	0.0830	"	0.831		71.4	21-131				
1,2-Diphenylhydrazine (as Azobenzene)	0.578	0.0416	"	0.831		69.6	17-137				
2,3,4,6-Tetrachlorophenol	0.689	0.0830	"	0.831		83.0	30-130				
2,4,5-Trichlorophenol	0.644	0.0416	"	0.831		77.6	27-118				
2,4,6-Trichlorophenol	0.618	0.0416	"	0.831		74.4	31-120				
2,4-Dichlorophenol	0.644	0.0416	"	0.831		77.5	20-127				
2,4-Dimethylphenol	0.644	0.0416	"	0.831		77.6	14-132				
2,4-Dinitrophenol	0.307	0.0830	"	0.831		37.0	10-171				
2,4-Dinitrotoluene	0.586	0.0416	"	0.831		70.6	34-131				
2,6-Dinitrotoluene	0.576	0.0416	"	0.831		69.4	31-128				
2-Chloronaphthalene	0.574	0.0416	"	0.831		69.1	31-117				
2-Chlorophenol	0.610	0.0416	"	0.831		73.4	33-113				
2-Methylnaphthalene	0.535	0.0416	"	0.831		64.4	12-138				
2-Methylphenol	0.616	0.0416	"	0.831		74.2	10-136				
2-Nitroaniline	0.602	0.0830	"	0.831		72.5	27-132				
2-Nitrophenol	0.572	0.0416	"	0.831		68.9	17-129				
3- & 4-Methylphenols	0.530	0.0416	"	0.831		63.8	29-103				
3,3-Dichlorobenzidine	0.490	0.0416	"	0.831		59.0	22-149				
3-Nitroaniline	0.483	0.0830	"	0.831		58.2	20-133				
4,6-Dinitro-2-methylphenol	0.300	0.0830	"	0.831		36.1	10-143				
4-Bromophenyl phenyl ether	0.579	0.0416	"	0.831		69.8	29-120				
4-Chloro-3-methylphenol	0.627	0.0416	"	0.831		75.4	24-129				
4-Chloroaniline	0.210	0.0416	"	0.831		25.2	10-132				
4-Chlorophenyl phenyl ether	0.575	0.0416	"	0.831		69.2	27-124				
4-Nitroaniline	0.566	0.0830	"	0.831		68.1	16-128				
4-Nitrophenol	0.651	0.0830	"	0.831		78.4	10-141				
Acenaphthene	0.567	0.0416	"	0.831		68.3	30-121				
Acenaphthylene	0.592	0.0416	"	0.831		71.3	30-115				
Acetophenone	0.594	0.0416	"	0.831		71.5	20-112				
Aniline	0.558	0.166	"	0.831		67.2	10-119				
Anthracene	0.601	0.0416	"	0.831		72.4	34-118				
Atrazine	0.632	0.0416	"	0.831		76.1	26-112				
Benzaldehyde	0.567	0.0416	"	0.831		68.3	21-100				
Benzo(a)anthracene	0.623	0.0416	"	0.831		75.0	32-122				
Benzo(a)pyrene	0.624	0.0416	"	0.831		75.1	29-133				
Benzo(b)fluoranthene	0.654	0.0416	"	0.831		78.7	25-133				
Benzo(g,h,i)perylene	0.582	0.0416	"	0.831		70.0	10-143				
Benzo(k)fluoranthene	0.601	0.0416	"	0.831		72.4	25-128				
Benzoic acid	1.65	0.0416	"	0.831		199	10-140	High Bias			
Benzyl alcohol	0.566	0.0416	"	0.831		68.2	30-115				
Benzyl butyl phthalate	0.550	0.0416	"	0.831		66.2	26-126				
Bis(2-chloroethoxy)methane	0.576	0.0416	"	0.831		69.4	19-132				
Bis(2-chloroethyl)ether	0.821	0.0416	"	0.831		98.8	19-125				
Bis(2-chloroisopropyl)ether	0.550	0.0416	"	0.831		66.3	20-135				
Bis(2-ethylhexyl)phthalate	0.561	0.0416	"	0.831		67.5	10-155				
Caprolactam	0.662	0.0830	"	0.831		79.8	10-127				
Carbazole	0.585	0.0416	"	0.831		70.5	35-123				
Chrysene	0.614	0.0416	"	0.831		74.0	32-123				
Dibenzo(a,h)anthracene	0.581	0.0416	"	0.831		69.9	10-136				
Dibenzofuran	0.589	0.0416	"	0.831		70.9	29-121				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50820 - EPA 3550C											
LCS (BC50820-BS1) LCS								Prepared: 03/11/2025 Analyzed: 03/12/2025			
Diethyl phthalate	0.564	0.0416	mg/kg wet	0.831		67.9	34-116				
Dimethyl phthalate	0.577	0.0416	"	0.831		69.5	35-124				
Di-n-butyl phthalate	0.577	0.0416	"	0.831		69.5	31-116				
Di-n-octyl phthalate	0.574	0.0416	"	0.831		69.1	26-136				
Diphenylamine	0.674	0.0830	"	0.831		81.2	40-140				
Fluoranthene	0.609	0.0416	"	0.831		73.3	33-122				
Fluorene	0.582	0.0416	"	0.831		70.1	29-123				
Hexachlorobenzene	0.582	0.0416	"	0.831		70.1	21-124				
Hexachlorobutadiene	0.600	0.0416	"	0.831		72.2	10-149				
Hexachlorocyclopentadiene	0.368	0.0416	"	0.831		44.3	10-129				
Hexachloroethane	0.546	0.0416	"	0.831		65.7	28-108				
Indeno(1,2,3-cd)pyrene	0.570	0.0416	"	0.831		68.7	10-135				
Isophorone	0.568	0.0416	"	0.831		68.4	20-132				
Naphthalene	0.589	0.0416	"	0.831		70.9	23-124				
Nitrobenzene	0.572	0.0416	"	0.831		68.8	13-132				
N-Nitrosodimethylamine	0.511	0.0416	"	0.831		61.6	11-129				
N-nitroso-di-n-propylamine	0.534	0.0416	"	0.831		64.3	24-119				
N-Nitrosodiphenylamine	0.662	0.0416	"	0.831		79.7	22-152				
Pentachlorophenol	0.581	0.0416	"	0.831		69.9	10-139				
Phenanthrene	0.594	0.0416	"	0.831		71.6	33-123				
Phenol	0.567	0.0416	"	0.831		68.3	23-115				
Pyrene	0.585	0.0416	"	0.831		70.4	24-130				
Pyridine	0.462	0.166	"	0.831		55.6	10-91				
Surrogate: SURR: 2-Fluorophenol	*1.21*		*"*	*1.66*		*72.6*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.14*		*"*	*1.66*		*68.7*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.524*		*"*	*0.831*		*63.1*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.526*		*"*	*0.831*		*63.4*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.22*		*"*	*1.66*		*73.2*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.508*		*"*	*0.831*		*61.2*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50820 - EPA 3550C											
Matrix Spike (BC50820-MS1) Matrix Spike *Source sample: 25C0156-06 (SB17_5-7)								Prepared: 03/11/2025 Analyzed: 03/12/2025			
1,1-Biphenyl	0.534	0.0901	mg/kg dry	0.900	ND	59.3	10-130				
1,2,4,5-Tetrachlorobenzene	0.549	0.180	"	0.900	ND	61.0	10-133				
1,2-Diphenylhydrazine (as Azobenzene)	0.502	0.0901	"	0.900	ND	55.8	10-144				
2,3,4,6-Tetrachlorophenol	0.516	0.180	"	0.900	ND	57.4	30-130				
2,4,5-Trichlorophenol	0.601	0.0901	"	0.900	ND	66.7	10-127				
2,4,6-Trichlorophenol	0.576	0.0901	"	0.900	ND	64.0	10-132				
2,4-Dichlorophenol	0.565	0.0901	"	0.900	ND	62.8	10-128				
2,4-Dimethylphenol	0.567	0.0901	"	0.900	ND	63.0	10-137				
2,4-Dinitrophenol	0.200	0.180	"	0.900	ND	22.2	10-171				
2,4-Dinitrotoluene	0.532	0.0901	"	0.900	ND	59.0	16-135				
2,6-Dinitrotoluene	0.522	0.0901	"	0.900	ND	57.9	18-131				
2-Chloronaphthalene	0.537	0.0901	"	0.900	ND	59.7	10-129				
2-Chlorophenol	0.544	0.0901	"	0.900	ND	60.4	15-116				
2-Methylnaphthalene	0.489	0.0901	"	0.900	ND	54.3	10-147				
2-Methylphenol	0.565	0.0901	"	0.900	ND	62.7	10-136				
2-Nitroaniline	0.545	0.180	"	0.900	ND	60.6	10-137				
2-Nitrophenol	0.496	0.0901	"	0.900	ND	55.1	10-129				
3- & 4-Methylphenols	0.509	0.0901	"	0.900	ND	56.6	10-123				
3,3-Dichlorobenzidine	0.447	0.0901	"	0.900	ND	49.7	10-155				
3-Nitroaniline	0.489	0.180	"	0.900	ND	54.3	12-133				
4,6-Dinitro-2-methylphenol	0.213	0.180	"	0.900	ND	23.6	10-155				
4-Bromophenyl phenyl ether	0.514	0.0901	"	0.900	ND	57.0	14-128				
4-Chloro-3-methylphenol	0.592	0.0901	"	0.900	ND	65.8	10-134				
4-Chloroaniline	0.261	0.0901	"	0.900	ND	29.0	10-145				
4-Chlorophenyl phenyl ether	0.542	0.0901	"	0.900	ND	60.2	14-130				
4-Nitroaniline	0.553	0.180	"	0.900	ND	61.4	10-147				
4-Nitrophenol	0.590	0.180	"	0.900	ND	65.5	10-137				
Acenaphthene	0.506	0.0901	"	0.900	ND	56.2	10-146				
Acenaphthylene	0.544	0.0901	"	0.900	ND	60.4	10-134				
Acetophenone	0.555	0.0901	"	0.900	ND	61.7	10-116				
Aniline	0.437	0.361	"	0.900	ND	48.5	10-123				
Anthracene	0.544	0.0901	"	0.900	ND	60.4	10-142				
Atrazine	0.564	0.0901	"	0.900	ND	62.6	19-115				
Benzaldehyde	0.540	0.0901	"	0.900	ND	60.0	10-125				
Benzo(a)anthracene	0.566	0.0901	"	0.900	ND	62.9	10-158				
Benzo(a)pyrene	0.544	0.0901	"	0.900	ND	60.4	10-180				
Benzo(b)fluoranthene	0.573	0.0901	"	0.900	ND	63.6	10-200				
Benzo(g,h,i)perylene	0.519	0.0901	"	0.900	ND	57.7	10-138				
Benzo(k)fluoranthene	0.548	0.0901	"	0.900	ND	60.9	10-197				
Benzoic acid	1.26	0.0901	"	0.900	ND	140	10-166				
Benzyl alcohol	0.541	0.0901	"	0.900	ND	60.1	12-124				
Benzyl butyl phthalate	0.478	0.0901	"	0.900	ND	53.1	10-154				
Bis(2-chloroethoxy)methane	0.530	0.0901	"	0.900	ND	58.9	10-132				
Bis(2-chloroethyl)ether	0.642	0.0901	"	0.900	ND	71.3	10-119				
Bis(2-chloroisopropyl)ether	0.499	0.0901	"	0.900	ND	55.4	10-139				
Bis(2-ethylhexyl)phthalate	0.507	0.0901	"	0.900	ND	56.3	10-167				
Caprolactam	0.591	0.180	"	0.900	ND	65.6	10-132				
Carbazole	0.542	0.0901	"	0.900	ND	60.2	10-167				
Chrysene	0.566	0.0901	"	0.900	ND	62.9	10-156				
Dibenzo(a,h)anthracene	0.496	0.0901	"	0.900	ND	55.0	10-137				
Dibenzofuran	0.544	0.0901	"	0.900	ND	60.4	10-147				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50820 - EPA 3550C											
Matrix Spike (BC50820-MS1) Matrix Spike *Source sample: 25C0156-06 (SB17_5-7)								Prepared: 03/11/2025 Analyzed: 03/12/2025			
Diethyl phthalate	0.514	0.0901	mg/kg dry	0.900	ND	57.1	20-120				
Dimethyl phthalate	0.522	0.0901	"	0.900	ND	57.9	18-131				
Di-n-butyl phthalate	0.511	0.0901	"	0.900	ND	56.8	10-137				
Di-n-octyl phthalate	0.506	0.0901	"	0.900	ND	56.2	10-180				
Diphenylamine	0.577	0.180	"	0.900	ND	64.1	40-140				
Fluoranthene	0.574	0.0901	"	0.900	ND	63.8	10-160				
Fluorene	0.540	0.0901	"	0.900	ND	60.0	10-157				
Hexachlorobenzene	0.522	0.0901	"	0.900	ND	58.0	10-137				
Hexachlorobutadiene	0.562	0.0901	"	0.900	ND	62.4	10-132				
Hexachlorocyclopentadiene	0.205	0.0901	"	0.900	ND	22.8	10-106				
Hexachloroethane	0.493	0.0901	"	0.900	ND	54.8	10-110				
Indeno(1,2,3-cd)pyrene	0.504	0.0901	"	0.900	ND	55.9	10-144				
Isophorone	0.528	0.0901	"	0.900	ND	58.6	10-132				
Naphthalene	0.539	0.0901	"	0.900	ND	59.8	10-141				
Nitrobenzene	0.521	0.0901	"	0.900	ND	57.8	10-131				
N-Nitrosodimethylamine	0.484	0.0901	"	0.900	ND	53.8	10-126				
N-nitroso-di-n-propylamine	0.473	0.0901	"	0.900	ND	52.6	10-125				
N-Nitrosodiphenylamine	0.569	0.0901	"	0.900	ND	63.2	10-177				
Pentachlorophenol	0.459	0.0901	"	0.900	ND	51.0	10-153				
Phenanthrene	0.543	0.0901	"	0.900	ND	60.3	10-148				
Phenol	0.506	0.0901	"	0.900	ND	56.2	10-126				
Pyrene	0.533	0.0901	"	0.900	ND	59.2	10-165				
Pyridine	0.342	0.361	"	0.900	ND	38.0	10-83				
Surrogate: SURR: 2-Fluorophenol	*1.08*		*"*	*1.80*		*60.1*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.01*		*"*	*1.80*		*56.1*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.471*		*"*	*0.900*		*52.3*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.468*		*"*	*0.900*		*51.9*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.13*		*"*	*1.80*		*62.8*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.459*		*"*	*0.900*		*51.0*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50820 - EPA 3550C											
Matrix Spike Dup (BC50820-M Matrix Spike Dup	*Source sample: 25C0156-06 (SB17_5-7)								Prepared: 03/11/2025 Analyzed: 03/12/2025		
1,1-Biphenyl	0.512	0.0901	mg/kg dry	0.900	ND	56.9	10-130		4.13	30	
1,2,4,5-Tetrachlorobenzene	0.519	0.180	"	0.900	ND	57.7	10-133		5.53	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.486	0.0901	"	0.900	ND	53.9	10-144		3.36	30	
2,3,4,6-Tetrachlorophenol	0.613	0.180	"	0.900	ND	68.1	30-130		17.1	30	
2,4,5-Trichlorophenol	0.565	0.0901	"	0.900	ND	62.8	10-127		6.05	30	
2,4,6-Trichlorophenol	0.541	0.0901	"	0.900	ND	60.1	10-132		6.32	30	
2,4-Dichlorophenol	0.563	0.0901	"	0.900	ND	62.5	10-128		0.511	30	
2,4-Dimethylphenol	0.539	0.0901	"	0.900	ND	59.8	10-137		5.08	30	
2,4-Dinitrophenol	0.219	0.180	"	0.900	ND	24.3	10-171		9.29	30	
2,4-Dinitrotoluene	0.514	0.0901	"	0.900	ND	57.1	16-135		3.31	30	
2,6-Dinitrotoluene	0.496	0.0901	"	0.900	ND	55.1	18-131		4.95	30	
2-Chloronaphthalene	0.505	0.0901	"	0.900	ND	56.1	10-129		6.22	30	
2-Chlorophenol	0.532	0.0901	"	0.900	ND	59.1	15-116		2.14	30	
2-Methylnaphthalene	0.469	0.0901	"	0.900	ND	52.1	10-147		4.21	30	
2-Methylphenol	0.536	0.0901	"	0.900	ND	59.5	10-136		5.24	30	
2-Nitroaniline	0.542	0.180	"	0.900	ND	60.2	10-137		0.663	30	
2-Nitrophenol	0.492	0.0901	"	0.900	ND	54.6	10-129		0.875	30	
3- & 4-Methylphenols	0.488	0.0901	"	0.900	ND	54.2	10-123		4.34	30	
3,3-Dichlorobenzidine	0.439	0.0901	"	0.900	ND	48.7	10-155		1.95	30	
3-Nitroaniline	0.464	0.180	"	0.900	ND	51.5	12-133		5.29	30	
4,6-Dinitro-2-methylphenol	0.203	0.180	"	0.900	ND	22.6	10-155		4.51	30	
4-Bromophenyl phenyl ether	0.486	0.0901	"	0.900	ND	54.0	14-128		5.48	30	
4-Chloro-3-methylphenol	0.561	0.0901	"	0.900	ND	62.3	10-134		5.37	30	
4-Chloroaniline	0.266	0.0901	"	0.900	ND	29.5	10-145		1.64	30	
4-Chlorophenyl phenyl ether	0.511	0.0901	"	0.900	ND	56.8	14-130		5.88	30	
4-Nitroaniline	0.516	0.180	"	0.900	ND	57.4	10-147		6.87	30	
4-Nitrophenol	0.571	0.180	"	0.900	ND	63.4	10-137		3.35	30	
Acenaphthene	0.493	0.0901	"	0.900	ND	54.8	10-146		2.59	30	
Acenaphthylene	0.526	0.0901	"	0.900	ND	58.4	10-134		3.37	30	
Acetophenone	0.531	0.0901	"	0.900	ND	59.0	10-116		4.51	30	
Aniline	0.480	0.361	"	0.900	ND	53.4	10-123		9.58	30	
Anthracene	0.527	0.0901	"	0.900	ND	58.6	10-142		3.09	30	
Atrazine	0.543	0.0901	"	0.900	ND	60.3	19-115		3.77	30	
Benzaldehyde	0.505	0.0901	"	0.900	ND	56.1	10-125		6.75	30	
Benzo(a)anthracene	0.540	0.0901	"	0.900	ND	59.9	10-158		4.82	30	
Benzo(a)pyrene	0.516	0.0901	"	0.900	ND	57.3	10-180		5.30	30	
Benzo(b)fluoranthene	0.522	0.0901	"	0.900	ND	58.0	10-200		9.21	30	
Benzo(g,h,i)perylene	0.493	0.0901	"	0.900	ND	54.8	10-138		5.12	30	
Benzo(k)fluoranthene	0.542	0.0901	"	0.900	ND	60.2	10-197		1.19	30	
Benzoic acid	1.39	0.0901	"	0.900	ND	154	10-166		9.25	30	
Benzyl alcohol	0.488	0.0901	"	0.900	ND	54.2	12-124		10.4	30	
Benzyl butyl phthalate	0.474	0.0901	"	0.900	ND	52.6	10-154		0.908	30	
Bis(2-chloroethoxy)methane	0.511	0.0901	"	0.900	ND	56.8	10-132		3.60	30	
Bis(2-chloroethyl)ether	0.706	0.0901	"	0.900	ND	78.4	10-119		9.51	30	
Bis(2-chloroisopropyl)ether	0.478	0.0901	"	0.900	ND	53.0	10-139		4.42	30	
Bis(2-ethylhexyl)phthalate	0.487	0.0901	"	0.900	ND	54.1	10-167		4.06	30	
Caprolactam	0.596	0.180	"	0.900	ND	66.2	10-132		0.971	30	
Carbazole	0.525	0.0901	"	0.900	ND	58.3	10-167		3.24	30	
Chrysene	0.540	0.0901	"	0.900	ND	60.0	10-156		4.69	30	
Dibenzo(a,h)anthracene	0.471	0.0901	"	0.900	ND	52.3	10-137		5.07	30	
Dibenzofuran	0.515	0.0901	"	0.900	ND	57.2	10-147		5.44	30	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50820 - EPA 3550C											
Matrix Spike Dup (BC50820-M Matrix Spike Dup	*Source sample: 25C0156-06 (SB17_5-7)								Prepared: 03/11/2025 Analyzed: 03/12/2025		
Diethyl phthalate	0.500	0.0901	mg/kg dry	0.900	ND	55.5	20-120		2.84	30	
Dimethyl phthalate	0.498	0.0901	"	0.900	ND	55.4	18-131		4.52	30	
Di-n-butyl phthalate	0.491	0.0901	"	0.900	ND	54.6	10-137		4.02	30	
Di-n-octyl phthalate	0.496	0.0901	"	0.900	ND	55.1	10-180		1.87	30	
Diphenylamine	0.560	0.180	"	0.900	ND	62.2	40-140		2.91	30	
Fluoranthene	0.540	0.0901	"	0.900	ND	60.0	10-160		6.08	30	
Fluorene	0.527	0.0901	"	0.900	ND	58.5	10-157		2.57	30	
Hexachlorobenzene	0.509	0.0901	"	0.900	ND	56.6	10-137		2.51	30	
Hexachlorobutadiene	0.529	0.0901	"	0.900	ND	58.8	10-132		5.94	30	
Hexachlorocyclopentadiene	0.194	0.0901	"	0.900	ND	21.5	10-106		5.78	30	
Hexachloroethane	0.479	0.0901	"	0.900	ND	53.2	10-110		2.96	30	
Indeno(1,2,3-cd)pyrene	0.475	0.0901	"	0.900	ND	52.8	10-144		5.74	30	
Isophorone	0.494	0.0901	"	0.900	ND	54.9	10-132		6.62	30	
Naphthalene	0.518	0.0901	"	0.900	ND	57.5	10-141		3.95	30	
Nitrobenzene	0.488	0.0901	"	0.900	ND	54.2	10-131		6.57	30	
N-Nitrosodimethylamine	0.457	0.0901	"	0.900	ND	50.8	10-126		5.66	30	
N-nitroso-di-n-propylamine	0.452	0.0901	"	0.900	ND	50.2	10-125		4.51	30	
N-Nitrosodiphenylamine	0.556	0.0901	"	0.900	ND	61.8	10-177		2.30	30	
Pentachlorophenol	0.470	0.0901	"	0.900	ND	52.2	10-153		2.33	30	
Phenanthrene	0.524	0.0901	"	0.900	ND	58.2	10-148		3.65	30	
Phenol	0.491	0.0901	"	0.900	ND	54.6	10-126		2.89	30	
Pyrene	0.517	0.0901	"	0.900	ND	57.4	10-165		3.02	30	
Pyridine	0.344	0.361	"	0.900	ND	38.2	10-83		0.420	30	
Surrogate: SURR: 2-Fluorophenol	*1.04*		*"*	*1.80*		*57.6*	*20-108*				
Surrogate: SURR: Phenol-d6	*0.968*		*"*	*1.80*		*53.8*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.445*		*"*	*0.900*		*49.4*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.445*		*"*	*0.900*		*49.4*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.06*		*"*	*1.80*		*59.1*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.444*		*"*	*0.900*		*49.4*	*24-116*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50764 - EPA 3550C											
Blank (BC50764-BLK1) Blank							Prepared: 03/11/2025 Analyzed: 03/12/2025				
1,4-Dioxane	ND	20.0	ug/kg								
Surrogate: 1,4-Dioxane-d8	*540*		*"*	*500*		*108*	*39-127.5*				
LCS (BC50764-BS1) LCS							Prepared: 03/11/2025 Analyzed: 03/12/2025				
1,4-Dioxane	452	20.0	ug/kg	500		90.4	40-130				
Surrogate: 1,4-Dioxane-d8	*430*		*"*	*500*		*86.0*	*39-127.5*				
Batch BC50862 - EPA 3550C											
Blank (BC50862-BLK1) Blank							Prepared: 03/12/2025 Analyzed: 03/13/2025				
1,4-Dioxane	ND	19.8	ug/kg								
Surrogate: 1,4-Dioxane-d8	*475*		*"*	*495*		*96.0*	*39-127.5*				
LCS (BC50862-BS1) LCS							Prepared: 03/12/2025 Analyzed: 03/13/2025				
1,4-Dioxane	443	19.8	ug/kg	495		89.4	40-130				
Surrogate: 1,4-Dioxane-d8	*416*		*"*	*495*		*84.0*	*39-127.5*				
Matrix Spike (BC50862-MS1) Matrix Spike *Source sample: 25C0156-06 (SB17_5-7)							Prepared: 03/12/2025 Analyzed: 03/13/2025				
1,4-Dioxane	275	19.8	ug/kg	495	ND	55.6	40-130				
Surrogate: 1,4-Dioxane-d8	*307*		*"*	*495*		*62.0*	*40-130*				
Matrix Spike Dup (BC50862-M Matrix Spike Dup *Source sample: 25C0156-06 (SB17_5-7)							Prepared: 03/12/2025 Analyzed: 03/13/2025				
1,4-Dioxane	299	19.8	ug/kg	495	ND	60.3	40-130		8.07	30	
Surrogate: 1,4-Dioxane-d8	*337*		*"*	*495*		*68.0*	*40-130*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50817 - EPA 3550C											
Blank (BC50817-BLK1) Blank							Prepared: 03/11/2025 Analyzed: 03/12/2025				
4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								
Surrogate: Decachlorobiphenyl	*0.0578*		*"*	*0.0664*		*87.0*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0554*		*"*	*0.0664*		*83.3*	*30-150*				
LCS (BC50817-BS1) LCS							Prepared: 03/11/2025 Analyzed: 03/12/2025				
4,4'-DDD	0.0208	0.00164	mg/kg wet	0.0332		62.5	40-140				
4,4'-DDE	0.0196	0.00164	"	0.0332		58.9	40-140				
4,4'-DDT	0.0212	0.00164	"	0.0332		63.8	40-140				
Aldrin	0.0213	0.00164	"	0.0332		64.1	40-140				
alpha-BHC	0.0245	0.00164	"	0.0332		73.8	40-140				
alpha-Chlordane	0.0208	0.00164	"	0.0332		62.5	40-140				
beta-BHC	0.0263	0.00164	"	0.0332		79.0	40-140				
delta-BHC	0.0210	0.00164	"	0.0332		63.1	40-140				
Dieldrin	0.0206	0.00164	"	0.0332		62.1	40-140				
Endosulfan I	0.0215	0.00164	"	0.0332		64.7	40-140				
Endosulfan II	0.0227	0.00164	"	0.0332		68.3	40-140				
Endosulfan sulfate	0.0214	0.00164	"	0.0332		64.4	40-140				
Endrin	0.0219	0.00164	"	0.0332		65.8	40-140				
Endrin aldehyde	0.0245	0.00164	"	0.0332		73.6	40-140				
Endrin ketone	0.0223	0.00164	"	0.0332		67.1	40-140				
gamma-BHC (Lindane)	0.0249	0.00164	"	0.0332		75.0	40-140				
gamma-Chlordane	0.0212	0.00164	"	0.0332		63.9	40-140				
Heptachlor	0.0240	0.00164	"	0.0332		72.3	40-140				
Heptachlor epoxide	0.0222	0.00164	"	0.0332		66.8	40-140				
Methoxychlor	0.0235	0.00164	"	0.0332		70.8	40-140				
Surrogate: Decachlorobiphenyl	*0.0503*		*"*	*0.0664*		*75.6*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0463*		*"*	*0.0664*		*69.7*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50817 - EPA 3550C											
Matrix Spike (BC50817-MS1) Matrix Spike *Source sample: 25C0156-06 (SB17_5-7)								Prepared: 03/11/2025 Analyzed: 03/12/2025			
4,4'-DDD	0.0305	0.00178	mg/kg dry	0.0360	ND	84.5	30-150				
4,4'-DDE	0.0308	0.00178	"	0.0360	ND	85.6	30-150				
4,4'-DDT	0.0316	0.00178	"	0.0360	ND	87.8	30-150				
Aldrin	0.0306	0.00178	"	0.0360	ND	85.0	30-150				
alpha-BHC	0.0306	0.00178	"	0.0360	ND	85.0	30-150				
alpha-Chlordane	0.0306	0.00178	"	0.0360	ND	84.9	30-150				
beta-BHC	0.0315	0.00178	"	0.0360	ND	87.4	30-150				
delta-BHC	0.0271	0.00178	"	0.0360	ND	75.3	30-150				
Dieldrin	0.0310	0.00178	"	0.0360	ND	86.2	30-150				
Endosulfan I	0.0316	0.00178	"	0.0360	ND	87.7	30-150				
Endosulfan II	0.0342	0.00178	"	0.0360	ND	95.1	30-150				
Endosulfan sulfate	0.0317	0.00178	"	0.0360	ND	87.9	30-150				
Endrin	0.0323	0.00178	"	0.0360	ND	89.6	30-150				
Endrin aldehyde	0.0362	0.00178	"	0.0360	ND	101	30-150				
Endrin ketone	0.0327	0.00178	"	0.0360	ND	90.9	30-150				
gamma-BHC (Lindane)	0.0303	0.00178	"	0.0360	ND	84.0	30-150				
gamma-Chlordane	0.0305	0.00178	"	0.0360	ND	84.8	30-150				
Heptachlor	0.0326	0.00178	"	0.0360	ND	90.6	30-150				
Heptachlor epoxide	0.0315	0.00178	"	0.0360	ND	87.5	30-150				
Methoxychlor	0.0345	0.00178	"	0.0360	ND	95.8	30-150				
Surrogate: Decachlorobiphenyl	*0.0786*		*"*	*0.0720*		*109*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0642*		*"*	*0.0720*		*89.1*	*30-150*				
Matrix Spike Dup (BC50817-! Matrix Spike Dup *Source sample: 25C0156-06 (SB17_5-7)								Prepared: 03/11/2025 Analyzed: 03/12/2025			
4,4'-DDD	0.0277	0.00178	mg/kg dry	0.0360	ND	77.0	30-150		9.33	30	
4,4'-DDE	0.0289	0.00178	"	0.0360	ND	80.3	30-150		6.48	30	
4,4'-DDT	0.0295	0.00178	"	0.0360	ND	81.8	30-150		7.02	30	
Aldrin	0.0286	0.00178	"	0.0360	ND	79.5	30-150		6.80	30	
alpha-BHC	0.0286	0.00178	"	0.0360	ND	79.3	30-150		6.88	30	
alpha-Chlordane	0.0288	0.00178	"	0.0360	ND	80.1	30-150		5.80	30	
beta-BHC	0.0296	0.00178	"	0.0360	ND	82.2	30-150		6.14	30	
delta-BHC	0.0253	0.00178	"	0.0360	ND	70.2	30-150		7.06	30	
Dieldrin	0.0292	0.00178	"	0.0360	ND	81.1	30-150		6.03	30	
Endosulfan I	0.0299	0.00178	"	0.0360	ND	83.0	30-150		5.52	30	
Endosulfan II	0.0317	0.00178	"	0.0360	ND	88.0	30-150		7.71	30	
Endosulfan sulfate	0.0299	0.00178	"	0.0360	ND	82.9	30-150		5.82	30	
Endrin	0.0295	0.00178	"	0.0360	ND	81.9	30-150		9.03	30	
Endrin aldehyde	0.0339	0.00178	"	0.0360	ND	94.0	30-150		6.78	30	
Endrin ketone	0.0312	0.00178	"	0.0360	ND	86.5	30-150		4.91	30	
gamma-BHC (Lindane)	0.0284	0.00178	"	0.0360	ND	78.8	30-150		6.41	30	
gamma-Chlordane	0.0288	0.00178	"	0.0360	ND	80.0	30-150		5.84	30	
Heptachlor	0.0305	0.00178	"	0.0360	ND	84.6	30-150		6.82	30	
Heptachlor epoxide	0.0296	0.00178	"	0.0360	ND	82.2	30-150		6.34	30	
Methoxychlor	0.0323	0.00178	"	0.0360	ND	89.6	30-150		6.73	30	
Surrogate: Decachlorobiphenyl	*0.124*		*"*	*0.0720*		*173*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.103*		*"*	*0.0720*		*143*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50822 - EPA 3550C											
Blank (BC50822-BLK1) Blank							Prepared: 03/11/2025 Analyzed: 03/12/2025				
4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								
Surrogate: Decachlorobiphenyl	*0.0520*		*"*	*0.0664*		*78.2*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0419*		*"*	*0.0664*		*63.1*	*30-150*				
LCS (BC50822-BS1) LCS							Prepared: 03/11/2025 Analyzed: 03/12/2025				
4,4'-DDD	0.0213	0.00164	mg/kg wet	0.0332		64.2	40-140				
4,4'-DDE	0.0189	0.00164	"	0.0332		56.9	40-140				
4,4'-DDT	0.0219	0.00164	"	0.0332		65.8	40-140				
Aldrin	0.0200	0.00164	"	0.0332		60.2	40-140				
alpha-BHC	0.0236	0.00164	"	0.0332		71.1	40-140				
alpha-Chlordane	0.0194	0.00164	"	0.0332		58.4	40-140				
beta-BHC	0.0244	0.00164	"	0.0332		73.4	40-140				
delta-BHC	0.0201	0.00164	"	0.0332		60.4	40-140				
Dieldrin	0.0195	0.00164	"	0.0332		58.6	40-140				
Endosulfan I	0.0202	0.00164	"	0.0332		60.7	40-140				
Endosulfan II	0.0225	0.00164	"	0.0332		67.6	40-140				
Endosulfan sulfate	0.0230	0.00164	"	0.0332		69.1	40-140				
Endrin	0.0206	0.00164	"	0.0332		62.1	40-140				
Endrin aldehyde	0.0256	0.00164	"	0.0332		77.1	40-140				
Endrin ketone	0.0254	0.00164	"	0.0332		76.5	40-140				
gamma-BHC (Lindane)	0.0239	0.00164	"	0.0332		71.9	40-140				
gamma-Chlordane	0.0196	0.00164	"	0.0332		59.0	40-140				
Heptachlor	0.0228	0.00164	"	0.0332		68.5	40-140				
Heptachlor epoxide	0.0204	0.00164	"	0.0332		61.5	40-140				
Methoxychlor	0.0275	0.00164	"	0.0332		82.8	40-140				
Surrogate: Decachlorobiphenyl	*0.0482*		*"*	*0.0664*		*72.6*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0383*		*"*	*0.0664*		*57.6*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50815 - EPA 3550C											
Blank (BC50815-BLK1) Blank								Prepared: 03/11/2025 Analyzed: 03/12/2025			
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	*0.0625*		*"*	*0.0664*		*94.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0415*		*"*	*0.0664*		*62.5*	*30-120*				
LCS (BC50815-BS2) LCS								Prepared: 03/11/2025 Analyzed: 03/12/2025			
Aroclor 1016	0.245	0.0166	mg/kg wet	0.332		73.7	40-130				
Aroclor 1260	0.225	0.0166	"	0.332		67.6	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0508*		*"*	*0.0664*		*76.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0395*		*"*	*0.0664*		*59.5*	*30-120*				
Matrix Spike (BC50815-MS2) Matrix Spike *Source sample: 25C0156-06 (SB17_5-7)								Prepared: 03/11/2025 Analyzed: 03/12/2025			
Aroclor 1016	0.256	0.0180	mg/kg dry	0.360	ND	71.1	40-140				
Aroclor 1260	0.245	0.0180	"	0.360	ND	68.0	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0490*		*"*	*0.0720*		*68.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0432*		*"*	*0.0720*		*60.0*	*30-120*				
Matrix Spike Dup (BC50815-! Matrix Spike Dup *Source sample: 25C0156-06 (SB17_5-7)								Prepared: 03/11/2025 Analyzed: 03/12/2025			
Aroclor 1016	0.249	0.0180	mg/kg dry	0.360	ND	69.1	40-140		2.74	50	
Aroclor 1260	0.246	0.0180	"	0.360	ND	68.3	40-140		0.440	50	
Surrogate: Tetrachloro-m-xylene	*0.0508*		*"*	*0.0720*		*70.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0479*		*"*	*0.0720*		*66.5*	*30-120*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50821 - EPA 3550C											
Blank (BC50821-BLK1) Blank								Prepared: 03/11/2025 Analyzed: 03/12/2025			
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	*0.0502*		*"*	*0.0664*		*75.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0399*		*"*	*0.0664*		*60.0*	*30-120*				
LCS (BC50821-BS2) LCS								Prepared: 03/11/2025 Analyzed: 03/12/2025			
Aroclor 1016	0.221	0.0166	mg/kg wet	0.332		66.5	40-130				
Aroclor 1260	0.215	0.0166	"	0.332		64.8	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0379*		*"*	*0.0664*		*57.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0342*		*"*	*0.0664*		*51.5*	*30-120*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50715 - EPA 3550C/8151A											
Blank (BC50715-BLK1) Blank							Prepared & Analyzed: 03/11/2025				
2,4,5-T	ND	0.0199	mg/kg wet								
2,4,5-TP (Silvex)	ND	0.0199	"								
2,4-D	ND	0.0199	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.330*		*"*	*0.415*		*79.4*	*21-150*				
LCS (BC50715-BS1) LCS							Prepared & Analyzed: 03/11/2025				
2,4,5-T	0.0498	0.0199	mg/kg wet	0.0664		75.0	10-120				
2,4,5-TP (Silvex)	0.0473	0.0199	"	0.0664		71.2	10-120				
2,4-D	0.0515	0.0199	"	0.0664		77.5	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.347*		*"*	*0.415*		*83.6*	*21-150*				
Batch BC50765 - EPA 3550C/8151A											
Blank (BC50765-BLK1) Blank							Prepared: 03/11/2025 Analyzed: 03/12/2025				
2,4,5-T	ND	0.0199	mg/kg wet								
2,4,5-TP (Silvex)	ND	0.0199	"								
2,4-D	ND	0.0199	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.407*		*"*	*0.415*		*98.0*	*21-150*				
LCS (BC50765-BS1) LCS							Prepared: 03/11/2025 Analyzed: 03/12/2025				
2,4,5-T	0.0731	0.0199	mg/kg wet	0.0664		110	10-120				
2,4,5-TP (Silvex)	0.0681	0.0199	"	0.0664		102	10-120				
2,4-D	0.0648	0.0199	"	0.0664		97.5	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.374*		*"*	*0.415*		*90.0*	*21-150*				
Matrix Spike (BC50765-MS1) Matrix Spike *Source sample: 25C0156-06 (SB17_5-7)							Prepared: 03/11/2025 Analyzed: 03/12/2025				
2,4,5-T	0.0646	0.0215	mg/kg dry	0.0718	ND	90.0	10-120				
2,4,5-TP (Silvex)	0.0592	0.0215	"	0.0718	ND	82.5	10-120				
2,4-D	0.0529	0.0215	"	0.0718	ND	73.8	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.374*		*"*	*0.449*		*83.4*	*21-150*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50765 - EPA 3550C/8151A											
Matrix Spike Dup (BC50765-M Matrix Spike Dup	*Source sample: 25C0156-06 (SB17_5-7)								Prepared: 03/11/2025 Analyzed: 03/12/2025		
2,4,5-T	0.0689	0.0212	mg/kg dry	0.0706	ND	97.5	10-120		6.36	35	
2,4,5-TP (Silvex)	0.0627	0.0212	"	0.0706	ND	88.8	10-120		5.66	35	
2,4-D	0.0556	0.0212	"	0.0706	ND	78.8	10-118		4.92	35	
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.394*		*"*	*0.441*		*89.2*	*21-150*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50610 - EPA 3050B											
Blank (BC50610-BLK1) Blank								Prepared: 03/09/2025 Analyzed: 03/10/2025			
Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	ND	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	ND	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	1.67	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								
Duplicate (BC50610-DUP1) Duplicate *Source sample: 25C0156-01 (SB19_0-2)								Prepared: 03/09/2025 Analyzed: 03/10/2025			
Aluminum	9700	5.24	mg/kg dry		11100				13.6	35	
Antimony	ND	2.62	"		ND					35	
Arsenic	6.34	1.57	"		7.38				15.1	35	
Barium	75.1	2.62	"		80.9				7.46	35	
Beryllium	0.381	0.053	"		0.430				12.2	35	
Cadmium	ND	0.315	"		ND					35	
Calcium	2250	5.25	"		2570				13.2	35	
Chromium	30.6	0.525	"		32.1				5.05	35	
Cobalt	7.44	0.419	"		8.84				17.3	35	
Copper	28.7	2.10	"		31.5				9.58	35	
Iron	13800	26.2	"		15600				12.2	35	
Lead	56.4	0.525	"		62.0				9.45	35	
Magnesium	2680	5.25	"		3320				21.3	35	
Manganese	392	0.525	"		432				9.87	35	
Nickel	28.2	1.04	"		34.4				19.8	35	
Potassium	1140	5.25	"		1340				15.9	35	
Selenium	ND	2.62	"		ND					35	
Silver	ND	0.529	"		ND					35	
Sodium	174	52.5	"		181				3.92	35	
Thallium	ND	2.10	"		ND					35	
Vanadium	32.7	1.04	"		38.3				15.7	35	
Zinc	84.7	2.61	"		96.3				12.8	35	

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50610 - EPA 3050B											
Matrix Spike (BC50610-MS1) Matrix Spike	*Source sample: 25C0156-01 (SB19_0-2)							Prepared: 03/09/2025 Analyzed: 03/10/2025			
Aluminum	11100	5.24	mg/kg dry	210	11100	NR	75-125	Low Bias			
Antimony	9.13	2.62	"	26.2	ND	34.8	75-125	Low Bias			
Arsenic	216	1.57	"	210	7.38	99.5	75-125				
Barium	294	2.62	"	210	80.9	102	75-125				
Beryllium	5.75	0.053	"	5.25	0.430	101	75-125				
Cadmium	5.34	0.315	"	5.25	ND	102	75-125				
Calcium	2470	5.25	"	105	2570	NR	75-125	Low Bias			
Chromium	50.9	0.525	"	21.0	32.1	89.6	75-125				
Cobalt	60.6	0.419	"	52.5	8.84	98.6	75-125				
Copper	59.4	2.10	"	26.2	31.5	106	75-125				
Iron	15400	26.2	"	105	15600	NR	75-125	Low Bias			
Lead	115	0.525	"	52.5	62.0	101	75-125				
Magnesium	3070	5.25	"	105	3320	NR	75-125	Low Bias			
Manganese	487	0.525	"	52.5	432	104	75-125				
Nickel	85.6	1.04	"	52.5	34.4	97.5	75-125				
Potassium	1230	5.25	"	105	1340	NR	75-125	Low Bias			
Selenium	204	2.62	"	210	ND	97.1	75-125				
Silver	5.26	0.529	"	5.25	ND	100	75-125				
Sodium	271	52.5	"	105	181	85.7	75-125				
Thallium	206	2.10	"	210	ND	98.0	75-125				
Vanadium	89.0	1.04	"	52.5	38.3	96.7	75-125				
Zinc	145	2.61	"	52.5	96.3	92.6	75-125				
Post Spike (BC50610-PS1) Post Spike	*Source sample: 25C0156-01 (SB19_0-2)							Prepared: 03/09/2025 Analyzed: 03/10/2025			
Aluminum	101		ug/mL	2.00	106	NR	75-125	Low Bias			
Antimony	0.249		"	0.250	-0.002	99.7	75-125				
Arsenic	1.98		"	2.00	0.070	95.7	75-125				
Barium	2.72		"	2.00	0.771	97.2	75-125				
Beryllium	0.053		"	0.0500	0.004	98.1	75-125				
Cadmium	0.048		"	0.0500	0.002	92.4	75-125				
Calcium	23.5		"	1.00	24.5	NR	75-125	Low Bias			
Chromium	0.480		"	0.200	0.306	86.6	75-125				
Cobalt	0.563		"	0.500	0.084	95.7	75-125				
Copper	0.541		"	0.250	0.301	96.2	75-125				
Iron	140		"	1.00	149	NR	75-125	Low Bias			
Lead	1.02		"	0.500	0.591	85.7	75-125				
Magnesium	30.2		"	1.00	31.7	NR	75-125	Low Bias			
Manganese	4.33		"	0.500	4.12	42.0	75-125	Low Bias			
Nickel	0.793		"	0.500	0.328	93.0	75-125				
Potassium	12.7		"	1.00	12.8	NR	75-125	Low Bias			
Selenium	1.89		"	2.00	-0.0004	94.6	75-125				
Silver	0.049		"	0.0500	0.0008	95.6	75-125				
Sodium	2.54		"	1.00	1.73	81.6	75-125				
Thallium	1.87		"	2.00	-0.006	93.4	75-125				
Vanadium	0.824		"	0.500	0.365	91.9	75-125				
Zinc	1.33		"	0.500	0.918	82.2	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50610 - EPA 3050B											
Reference (BC50610-SRM1) Reference								Prepared: 03/09/2025 Analyzed: 03/10/2025			
Aluminum	7070	4.17	mg/kg wet	7680		92.1	47.4-130.2				
Antimony	56.3	2.08	"	201		28.0	0-100				
Arsenic	139	1.25	"	181		76.9	66.3-98				
Barium	184	2.08	"	211		87.0	73.9-107.1				
Beryllium	222	0.042	"	270		82.3	73-104.4				
Cadmium	167	0.250	"	221		75.8	70.6-101.8				
Calcium	3740	4.17	"	4280		87.5	77.3-111				
Chromium	126	0.417	"	149		84.3	71.8-105.4				
Cobalt	121	0.333	"	142		85.5	73.2-104.2				
Copper	236	1.67	"	264		89.5	73.5-104.2				
Iron	6600	20.8	"	7360		89.7	55.4-130.3				
Lead	92.6	0.417	"	106		87.4	76.1-109.4				
Magnesium	1960	4.17	"	2170		90.5	68.7-112				
Manganese	259	0.417	"	270		95.9	73-107.8				
Nickel	148	0.830	"	177		83.8	71.8-103.4				
Potassium	2200	4.17	"	2340		93.9	62.8-113.7				
Selenium	114	2.08	"	139		82.0	70-107.9				
Silver	53.1	0.420	"	59.9		88.6	72.8-110.7				
Sodium	263	41.7	"	306		86.1	66-113.4				
Thallium	166	1.67	"	205		81.0	71.7-106.8				
Vanadium	132	0.830	"	155		85.3	69-107.7				
Zinc	321	2.08	"	389		82.6	70.4-106.9				
Batch BC50611 - EPA 3050B											
Blank (BC50611-BLK1) Blank								Prepared: 03/09/2025 Analyzed: 03/10/2025			
Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	ND	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	ND	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	1.67	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50611 - EPA 3050B											
Duplicate (BC50611-DUP1) Duplicate	*Source sample: 25C0156-06 (SB17_5-7)								Prepared: 03/09/2025 Analyzed: 03/10/2025		
Aluminum	10700	4.52	mg/kg dry		12400				14.8	35	
Antimony	ND	2.26	"		ND					35	
Arsenic	2.46	1.36	"		4.03				48.5	35	Non-dir.
Barium	66.8	2.25	"		57.8				14.4	35	
Beryllium	0.416	0.046	"		0.389				6.51	35	
Cadmium	ND	0.271	"		ND					35	
Calcium	910	4.52	"		741				20.5	35	
Chromium	29.7	0.452	"		30.2				1.60	35	
Cobalt	9.31	0.361	"		8.40				10.3	35	
Copper	17.8	1.81	"		19.8				10.7	35	
Iron	22400	22.6	"		19000				16.6	35	
Lead	5.94	0.452	"		10.9				58.9	35	Non-dir.
Magnesium	3230	4.52	"		2970				8.66	35	
Manganese	311	0.452	"		278				11.0	35	
Nickel	51.9	0.900	"		31.6				48.6	35	Non-dir.
Potassium	1550	4.52	"		1170				27.5	35	
Selenium	ND	2.26	"		ND					35	
Silver	ND	0.455	"		ND					35	
Sodium	246	45.2	"		210				15.7	35	
Thallium	ND	1.81	"		ND					35	
Vanadium	32.2	0.900	"		32.8				2.03	35	
Zinc	31.1	2.25	"		30.6				1.55	35	
Matrix Spike (BC50611-MS1) Matrix Spike	*Source sample: 25C0156-06 (SB17_5-7)								Prepared: 03/09/2025 Analyzed: 03/10/2025		
Aluminum	9590	4.52	mg/kg dry	181	12400	NR	75-125	Low Bias			
Antimony	6.85	2.26	"	22.6	ND	30.3	75-125	Low Bias			
Arsenic	174	1.36	"	181	4.03	93.8	75-125				
Barium	240	2.25	"	181	57.8	101	75-125				
Beryllium	4.66	0.046	"	4.52	0.389	94.6	75-125				
Cadmium	4.21	0.271	"	4.52	ND	93.2	75-125				
Calcium	1170	4.52	"	90.3	741	477	75-125	High Bias			
Chromium	46.6	0.452	"	18.1	30.2	91.1	75-125				
Cobalt	51.0	0.361	"	45.2	8.40	94.2	75-125				
Copper	39.7	1.81	"	22.6	19.8	88.2	75-125				
Iron	15500	22.6	"	90.3	19000	NR	75-125	Low Bias			
Lead	47.3	0.452	"	45.2	10.9	80.6	75-125				
Magnesium	3160	4.52	"	90.3	2970	214	75-125	High Bias			
Manganese	340	0.452	"	45.2	278	138	75-125	High Bias			
Nickel	96.7	0.900	"	45.2	31.6	144	75-125	High Bias			
Potassium	1690	4.52	"	90.3	1170	571	75-125	High Bias			
Selenium	169	2.26	"	181	ND	93.5	75-125				
Silver	4.21	0.455	"	4.52	ND	93.2	75-125				
Sodium	316	45.2	"	90.3	210	117	75-125				
Thallium	168	1.81	"	181	ND	93.2	75-125				
Vanadium	71.5	0.900	"	45.2	32.8	85.6	75-125				
Zinc	67.4	2.25	"	45.2	30.6	81.4	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50611 - EPA 3050B											
Post Spike (BC50611-PS1) Post Spike *Source sample: 25C0156-06 (SB17_5-7)								Prepared: 03/09/2025 Analyzed: 03/10/2025			
Aluminum	134		ug/mL	2.00	138	NR	75-125	Low Bias			
Antimony	0.254		"	0.250	-0.006	102	75-125				
Arsenic	2.03		"	2.00	0.045	99.3	75-125				
Barium	2.66		"	2.00	0.640	101	75-125				
Beryllium	0.055		"	0.0500	0.004	101	75-125				
Cadmium	0.048		"	0.0500	0.0001	96.4	75-125				
Calcium	8.83		"	1.00	8.20	62.7	75-125	Low Bias			
Chromium	0.517		"	0.200	0.334	91.6	75-125				
Cobalt	0.586		"	0.500	0.093	98.7	75-125				
Copper	0.474		"	0.250	0.219	102	75-125				
Iron	202		"	1.00	210	NR	75-125	Low Bias			
Lead	0.597		"	0.500	0.121	95.3	75-125				
Magnesium	32.4		"	1.00	32.8	NR	75-125	Low Bias			
Manganese	3.43		"	0.500	3.08	70.9	75-125	Low Bias			
Nickel	0.830		"	0.500	0.350	95.9	75-125				
Potassium	13.2		"	1.00	13.0	22.4	75-125	Low Bias			
Selenium	1.99		"	2.00	-0.003	99.5	75-125				
Silver	0.049		"	0.0500	-0.0008	98.6	75-125				
Sodium	3.20		"	1.00	2.33	87.3	75-125				
Thallium	1.91		"	2.00	-0.002	95.6	75-125				
Vanadium	0.844		"	0.500	0.363	96.1	75-125				
Zinc	0.810		"	0.500	0.339	94.1	75-125				
Reference (BC50611-SRM1) Reference								Prepared: 03/09/2025 Analyzed: 03/10/2025			
Aluminum	7810	4.17	mg/kg wet	7680		102	47.4-130.2				
Antimony	59.6	2.08	"	201		29.7	0-100				
Arsenic	155	1.25	"	181		85.9	66.3-98				
Barium	198	2.08	"	211		93.9	73.9-107.1				
Beryllium	247	0.042	"	270		91.6	73-104.4				
Cadmium	189	0.250	"	221		85.4	70.6-101.8				
Calcium	4060	4.17	"	4280		94.8	77.3-111				
Chromium	135	0.417	"	149		90.3	71.8-105.4				
Cobalt	133	0.333	"	142		93.4	73.2-104.2				
Copper	256	1.67	"	264		96.8	73.5-104.2				
Iron	7350	20.8	"	7360		99.9	55.4-130.3				
Lead	101	0.417	"	106		95.0	76.1-109.4				
Magnesium	2110	4.17	"	2170		97.4	68.7-112				
Manganese	244	0.417	"	270		90.3	73-107.8				
Nickel	160	0.830	"	177		90.5	71.8-103.4				
Potassium	2400	4.17	"	2340		103	62.8-113.7				
Selenium	129	2.08	"	139		93.1	70-107.9				
Silver	57.2	0.420	"	59.9		95.4	72.8-110.7				
Sodium	278	41.7	"	306		90.7	66-113.4				
Thallium	192	1.67	"	205		93.6	71.7-106.8				
Vanadium	141	0.830	"	155		90.9	69-107.7				
Zinc	351	2.08	"	389		90.1	70.4-106.9				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50531 - EPA 7473 soil												
Blank (BC50531-BLK1)	Blank								Prepared & Analyzed: 03/07/2025			
Mercury		ND	0.0300	mg/kg wet								
Reference (BC50531-SRM1)	Reference								Prepared & Analyzed: 03/07/2025			
Mercury		20.459		mg/kg	24.0		85.2	55.8-109.6				
Batch BC50574 - EPA 7473 soil												
Blank (BC50574-BLK1)	Blank								Prepared: 03/07/2025 Analyzed: 03/08/2025			
Mercury		ND	0.0300	mg/kg wet								
Duplicate (BC50574-DUP1)	Duplicate	*Source sample: 25C0156-06 (SB17_5-7)							Prepared: 03/07/2025 Analyzed: 03/08/2025			
Mercury		ND	0.0325	mg/kg dry		ND					35	
Matrix Spike (BC50574-MS1)	Matrix Spike	*Source sample: 25C0156-06 (SB17_5-7)							Prepared: 03/07/2025 Analyzed: 03/08/2025			
Mercury		0.394		mg/kg	1.00	0.0124	38.2	75-125	Low Bias			
Reference (BC50574-SRM1)	Reference								Prepared: 03/07/2025 Analyzed: 03/08/2025			
Mercury		22.432		mg/kg	24.0		93.5	55.8-109.6				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50502 - Analysis Preparation Soil												
Blank (BC50502-BLK1)	Blank								Prepared & Analyzed: 03/07/2025			
Cyanide, total		ND	0.500	mg/kg wet								
Duplicate (BC50502-DUP1)	Duplicate	*Source sample: 25C0156-06 (SB17_5-7)							Prepared & Analyzed: 03/07/2025			
Cyanide, total		ND	0.542	mg/kg dry		ND					15	
Matrix Spike (BC50502-MS1)	Matrix Spike	*Source sample: 25C0156-06 (SB17_5-7)							Prepared & Analyzed: 03/07/2025			
Cyanide, total		4.56	0.542	mg/kg dry	5.42	ND	84.2	79.6-107				
Matrix Spike Dup (BC50502-M	Matrix Spike Dup	*Source sample: 25C0156-06 (SB17_5-7)							Prepared & Analyzed: 03/07/2025			
Cyanide, total		4.92	0.542	mg/kg dry	5.42	ND	90.8	79.6-107		7.59	200	
Reference (BC50502-SRM1)	Reference								Prepared & Analyzed: 03/07/2025			
Cyanide, total		135		ug/mL	111		122	43.5-170				
Batch BC50645 - EPA SW846-3060												
Blank (BC50645-BLK1)	Blank								Prepared & Analyzed: 03/10/2025			
Chromium, Hexavalent		ND	0.500	mg/kg wet								
Reference (BC50645-SRM1)	Reference								Prepared & Analyzed: 03/10/2025			
Chromium, Hexavalent		146		mg/L	227		64.5	42.3-157.7				
Batch BC50696 - EPA SW846-3060												
Blank (BC50696-BLK1)	Blank								Prepared & Analyzed: 03/10/2025			
Chromium, Hexavalent		ND	0.500	mg/kg wet								

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50696 - EPA SW846-3060											
Reference (BC50696-SRM1) Reference								Prepared & Analyzed: 03/10/2025			
Chromium, Hexavalent	246		mg/L	227		109	42.3-157.7				
Batch BC50740 - EPA SW846-3060											
Blank (BC50740-BLK1) Blank								Prepared & Analyzed: 03/11/2025			
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Duplicate (BC50740-DUP1) Duplicate *Source sample: 25C0156-06 (SB17_5-7)								Prepared & Analyzed: 03/11/2025			
Chromium, Hexavalent	ND	0.542	mg/kg dry		ND					35	
Matrix Spike (BC50740-MS1) Matrix Spike *Source sample: 25C0156-06 (SB17_5-7)								Prepared & Analyzed: 03/11/2025			
Chromium, Hexavalent	17.8	0.542	mg/kg dry	21.7	ND	82.0	75-125				
Matrix Spike Dup (BC50740-M Matrix Spike Dup *Source sample: 25C0156-06 (SB17_5-7)								Prepared & Analyzed: 03/11/2025			
Chromium, Hexavalent	15.2	0.542	mg/kg dry	21.7	ND	70.2	75-125	Low Bias	15.5	200	
Reference (BC50740-SRM1) Reference								Prepared & Analyzed: 03/11/2025			
Chromium, Hexavalent	189		mg/L	227		83.2	42.3-157.7				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50407 - % Solids Prep											
Duplicate (BC50407-DUP1) Duplicate	*Source sample: 25C0156-06 (SB17_5-7)							Prepared & Analyzed: 03/06/2025			
% Solids	89.8	0.100	%		92.2				2.69	20	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
25C0156-01	SB19_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0156-02	SB19_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0156-03	SB18_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0156-04	SB18_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0156-05	SB17_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0156-06	SB17_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0156-07	SB16_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0156-08	SB16_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0156-09	SB21_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0156-10	SB21_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0156-11	SB22_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0156-12	SB22_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0156-13	SB23_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0156-14	SB23_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0156-15	SODUP04_030425	40mL Vial with Stir Bar-Cool 4° C

Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-CCV1	The recovery for this element in the Continuing Calibration Verification (CCV) was outside the 90-110% recovery criteria.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This legal document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | 2161 Whitesville Rd Toms River, NJ 08755 | clientservices@yorklab.com | 800-306-YORK

YORK Project Number: 25C0156

Page 1 of 1

Report To:
Company: Langan
Address: 368 Ninth Ave, 8th Fl NY, NY 10001
Phone: 212-479-5400
Contact: Lexi Haley
E-mail: lhaley@langan.com

Invoice To:
Company:
Address:
Phone:
Contact:
E-mail:

YOUR Project Name / Number: Proposed Bally's Casino-Ring Road at Ferry Point Park 170773001

PO Number:

Samples Collected From: NY [X] NJ [ ] CT [ ] PA [ ] Other: (please specify)

Turn-Around Time: RUSH - Next Day [ ] RUSH - Two Day [ ] RUSH - Three Day [ ] RUSH - Four Day [ ] RUSH - Five Day [ ] Standard (6-9 Day) [X] PFAS Standard 7-10 Day [ ]

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Savannah Walters

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Preservative (please list number of containers)

Analyses Requested

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other: DI Water	Part 375 VOCs	Part 375 SVOCs, PCBs, Pest	Herb, TPH, Metals (incl Hex)	tri chrom & total cyanide	1,4-dioxane	PFAS						Grab or Comp. G/C
SB19_0-2	3/4/25	0912	S	3		1							2	X	X	X	X	X							
SB19_5-7		0916																							
SB18_0-2		1006																							
SB18_5-7		1019																							
SB17_0-2		1210																							
SB17_5-7 (MS/MSD)		1220		9		3							6												
SB16_0-2		1314				1							2												
SB16_5-7		1319																							
SB21_0-2		1429																							
SB21_5-7		1440																							
SB22_0-2		1505																							
SB22_5-7		1515																							
SB23_0-2		1540																							
SB23_5-7		1545																							
SODUP04_030425		—																							

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered [ ] Lab Filtered [ ]

Comments: please cc: datamanagement@langan.com areach@langan.com & swalters@langan.com

Samples iced/chilled at time of lab pickup? circle YES or NO

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N

Custody Seals: Y / N Containers Intact: Y / N COC/Labels Agree: Y / N Preservation Confirmed: Y / N
COC Complete: Y / N COC Received: Y / N Appropriate Sample Volumes: Y / N Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N Samples Submitted within Holding Times: Y / N Corrective Action Form Required: Y / N

Relinquished by / Company	Date/Time	Received by / Company	Date/Time	Relinquished by / Company	Date/Time	Received by / Company	Date/Time
1. Savannah Walters (Langan)	3/4/25 1600	1. A. Husain	3/4/25 16:00	2. A. Husain	3/4/25 21:30		
2.		3.		3.			
4.		4.		Samples Received in LAB by:	3/4/25	21:30	Temperature 5.0 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Report Date: 03/14/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0261

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/14/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0261

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 05, 2025 and listed below. The project was identified as your project: **170773001**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25C0261-01	SOFB03_030525	Water	03/05/2025	03/05/2025
25C0261-02	SOFB03_PFAS_030525	Water	03/05/2025	03/05/2025
25C0261-03	SOTB03_030525	Water	03/05/2025	03/05/2025
25C0261-04	SB24_0-2	Soil	03/05/2025	03/05/2025
25C0261-05	SB24_5-7	Soil	03/05/2025	03/05/2025
25C0261-06	SB25_0-2	Soil	03/05/2025	03/05/2025
25C0261-07	SB25_5-7	Soil	03/05/2025	03/05/2025
25C0261-08	SB26_0-2	Soil	03/05/2025	03/05/2025
25C0261-09	SB26_5-7	Soil	03/05/2025	03/05/2025
25C0261-10	SB27_0-2	Soil	03/05/2025	03/05/2025
25C0261-11	SB27_5-7	Soil	03/05/2025	03/05/2025
25C0261-12	SB28_0-2	Soil	03/05/2025	03/05/2025
25C0261-13	SB28_5-7	Soil	03/05/2025	03/05/2025
25C0261-14	SODUP05_030525	Soil	03/05/2025	03/05/2025

General Notes for York Project (SDG) No.: 25C0261

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By **Date:** 03/14/2025

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: SOFB03_030525 **York Sample ID:** 25C0261-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Water	March 5, 2025 7:49 am	03/05/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SOFB03_030525 **York Sample ID:** 25C0261-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Water	March 5, 2025 7:49 am	03/05/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND		ug/L	1.34	2.00	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		ug/L	0.447	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.451	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: **SOFB03_030525** **York Sample ID:** **25C0261-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Water	March 5, 2025 7:49 am	03/05/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SOFB03_030525 **York Sample ID:** 25C0261-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Water	March 5, 2025 7:49 am	03/05/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/06/2025 17:36	03/06/2025 19:54	PD
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*100 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.1 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*101 %*	*79-122*

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SOFB03_030525 **York Sample ID:** 25C0261-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Water	March 5, 2025 7:49 am	03/05/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-48-7	2-Methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
99-09-2	3-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		ug/L	5.00	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		ug/L	5.00	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SOFB03_030525 **York Sample ID:** 25C0261-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Water	March 5, 2025 7:49 am	03/05/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.00	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	NELAC-NY10854,PADEP-68-04440		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.00	10.0	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		ug/L	0.750	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 22:14	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*25.7 %*	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*14.6 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*38.7 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*38.5 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*51.4 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*50.6 %*	*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: SOFB03_030525 **York Sample ID:** 25C0261-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Water	March 5, 2025 7:49 am	03/05/2025

83-32-9	Acenaphthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-12-7	Anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		ug/L	0.500	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.500	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	Chrysene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	Fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	Fluorene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
118-74-1	Hexachlorobenzene	ND		ug/L	0.0200	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.500	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND		ug/L	0.500	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND	CCVE, ICVE	ug/L	0.250	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
62-75-9	N-Nitrosodimethylamine	ND	CCVE	ug/L	0.500	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-86-5	Pentachlorophenol	ND		ug/L	0.250	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
85-01-8	Phenanthrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/12/2025 15:50	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SOFB03_030525** **York Sample ID:** **25C0261-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Water	March 5, 2025 7:49 am	03/05/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270E SIM	03/07/2025 08:29	03/08/2025 04:47	SS
							Certifications: NJDEP-CT005,NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*104 %*	*36.6-118*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SOFB03_030525 **York Sample ID:** 25C0261-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Water	March 5, 2025 7:49 am	03/05/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B	03/10/2025 08:35	03/11/2025 12:18	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*52.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*49.3 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 12:33	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 12:33	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 12:33	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 12:33	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 12:33	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 12:33	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 12:33	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 12:33	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*32.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*35.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SOFB03_030525** **York Sample ID:** **25C0261-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Water	March 5, 2025 7:49 am	03/05/2025

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	03/10/2025 08:50	03/10/2025 20:26	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	03/10/2025 08:50	03/10/2025 20:26	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	03/10/2025 08:50	03/10/2025 20:26	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*31.6 %*	*30-150*

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	03/10/2025 08:48	03/10/2025 17:12	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D	03/10/2025 08:48	03/10/2025 17:12	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1.34**		mg/L	0.0556	1	EPA 6010D	03/10/2025 08:48	03/10/2025 17:12	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/10/2025 08:48	03/10/2025 17:12	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	03/10/2025 08:48	03/10/2025 17:12	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/10/2025 08:48	03/10/2025 17:12	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	03/10/2025 08:48	03/10/2025 17:12	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/10/2025 08:48	03/10/2025 17:12	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**0.119**		mg/L	0.0556	1	EPA 6010D	03/10/2025 08:48	03/10/2025 17:12	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 6010D	03/10/2025 08:48	03/10/2025 17:12	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/10/2025 08:48	03/10/2025 17:12	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**0.137**		mg/L	0.0556	1	EPA 6010D	03/10/2025 08:48	03/10/2025 17:12	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/10/2025 08:48	03/10/2025 17:12	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**1.32**		mg/L	0.556	1	EPA 6010D	03/10/2025 08:48	03/10/2025 17:12	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/10/2025 08:48	03/10/2025 17:12	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SOFB03_030525 **York Sample ID:** 25C0261-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Water	March 5, 2025 7:49 am	03/05/2025

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	03/10/2025 08:48	03/10/2025 17:12	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	03/10/2025 08:54	03/11/2025 11:42	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	03/10/2025 08:54	03/11/2025 11:42	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	03/10/2025 08:54	03/11/2025 11:42	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	03/10/2025 08:54	03/11/2025 11:42	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B	03/10/2025 08:54	03/11/2025 11:42	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/10/2025 08:54	03/11/2025 11:42	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/10/2025 08:00	03/10/2025 08:00	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	03/05/2025 21:34	03/05/2025 22:30	SML
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	03/11/2025 14:43	03/11/2025 16:35	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SOFB03_030525** **York Sample ID:** **25C0261-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Water	March 5, 2025 7:49 am	03/05/2025

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C-2016 / E-201(	03/10/2025 14:00	03/10/2025 17:31	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SOFB03_PFAS_030525** **York Sample ID:** **25C0261-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Water	March 5, 2025 7:57 am	03/05/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.445	1.68	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.332	1.90	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.673	1.90	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.645	1.73	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.398	1.90	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.777	1.76	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.493	1.90	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.711	1.90	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.07	1.90	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.834	1.90	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.701	1.90	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.654	1.90	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.749	1.90	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
2991-50-6	N-EtFOSAA	ND		ng/L	0.976	1.90	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.218	3.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.834	1.90	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.863	1.81	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.25	1.83	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	7.11	7.20	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.94	7.28	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.313	7.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM

Sample Information

Client Sample ID: SOFB03_PFAS_030525 **York Sample ID:** 25C0261-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Water	March 5, 2025 7:57 am	03/05/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.474	3.37	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/11/2025 16:24	03/13/2025 13:02	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.03	3.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/11/2025 16:24	03/13/2025 13:02	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.237	3.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/11/2025 16:24	03/13/2025 13:02	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.351	3.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/11/2025 16:24	03/13/2025 13:02	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.720	1.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.70	7.11	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.06	7.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.31	7.17	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.664	7.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
919005-14-4	ADONA	ND		ng/L	0.502	7.17	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.882	1.84	1	EPA 1633 Draft 3 Certifications:	03/11/2025 16:24	03/13/2025 13:02	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.815	1.82	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/11/2025 16:24	03/13/2025 13:02	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.92	4.74	1	EPA 1633 Draft 3 Certifications:	03/11/2025 16:24	03/13/2025 13:02	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	6.95	23.7	1	EPA 1633 Draft 3 Certifications:	03/11/2025 16:24	03/13/2025 13:02	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND	PF-CCV-L, PF-LCS-L	ng/L	8.98	23.7	1	EPA 1633 Draft 3 Certifications:	03/11/2025 16:24	03/13/2025 13:02	AM
24448-09-7	* N-MeFOSE	ND		ng/L	3.78	19.0	1	EPA 1633 Draft 3 Certifications:	03/11/2025 16:24	03/13/2025 13:02	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.50	1.90	1	EPA 1633 Draft 3 Certifications:	03/11/2025 16:24	03/13/2025 13:02	AM
1691-99-2	* N-EtFOSE	ND		ng/L	3.78	19.0	1	EPA 1633 Draft 3 Certifications:	03/11/2025 16:24	03/13/2025 13:02	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.71	1.90	1	EPA 1633 Draft 3 Certifications:	03/11/2025 16:24	03/13/2025 13:02	AM

	Surrogate Recoveries	Result	Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*118 %*	*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*104 %*	*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*136 %*	*25-150*

Sample Information

Client Sample ID: **SOFB03_PFAS_030525** **York Sample ID:** **25C0261-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Water	March 5, 2025 7:57 am	03/05/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
13C3PFHXS	*Surrogate: M3PFHxS*	*106 %*			*25-150*						
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*107 %*			*25-150*						
13C6PFDA	*Surrogate: M6PFDA*	*89.4 %*			*25-150*						
13C7PFUNA	*Surrogate: M7PFUdA*	*104 %*			*25-150*						
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*94.3 %*			*25-150*						
13C2PFTEDA	*Surrogate: M2PFTeDA*	*95.1 %*			*10-150*						
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*10.6 %*	PFSu-L		*25-150*						
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*102 %*			*25-150*						
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*93.5 %*			*25-150*						
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*92.3 %*			*10-150*						
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*105 %*			*25-150*						
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*118 %*			*25-150*						
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*108 %*			*25-200*						
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*103 %*			*25-200*						
13C9PFNA	*Surrogate: M9PFNA*	*88.8 %*			*25-150*						
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*120 %*			*25-150*						
936109-37-4	*Surrogate: d-N-MeFOSA*	*92.9 %*			*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*87.1 %*			*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*102 %*			*25-150*						
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*81.7 %*			*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*71.3 %*			*25-150*						

Sample Information

Client Sample ID: SOTB03_030525 **York Sample ID:** 25C0261-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Water	March 5, 2025 3:00 pm	03/05/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SOTB03_030525 **York Sample ID:** 25C0261-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Water	March 5, 2025 3:00 pm	03/05/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND		ug/L	1.34	2.00	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		ug/L	0.447	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND	CCVE	ug/L	0.119	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	ug/L	0.372	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND	ICVE	ug/L	0.491	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.451	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SOTB03_030525 **York Sample ID:** 25C0261-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Water	March 5, 2025 3:00 pm	03/05/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND	ICVE	ug/L	0.442	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SOTB03_030525** **York Sample ID:** **25C0261-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Water	March 5, 2025 3:00 pm	03/05/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE	ug/L	0.469	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/06/2025 10:17	03/06/2025 11:52	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*91.8 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*92.9 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*92.9 %*	*79-122*

Sample Information

Client Sample ID: **SB24_0-2** **York Sample ID:** **25C0261-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:45 am	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.052	0.10	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.0036**	J	mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB24_0-2** **York Sample ID:** **25C0261-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:45 am	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.018**	CCVE, ICVE	mg/kg dry	0.0052	0.010	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0052	0.010	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB24_0-2 **York Sample ID:** 25C0261-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:45 am	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0052	0.010	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0052	0.010	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB24_0-2** **York Sample ID:** **25C0261-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:45 am	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0077	0.015	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:07	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*103 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0936	0.187	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0936	0.187	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0936	0.187	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB24_0-2** **York Sample ID:** **25C0261-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:45 am	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0936	0.187	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0936	0.187	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0936	0.187	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0936	0.187	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0936	0.187	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.187	0.375	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.187	0.375	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.0494**	J	mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	**Benzo(a)pyrene**	**0.0546**	J	mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB24_0-2** **York Sample ID:** **25C0261-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:45 am	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	**Benzo(b)fluoranthene**	**0.0494**	J	mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.0501**	J	mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0936	0.187	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.0531**	J	mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0936	0.187	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.0838**	J	mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	Fluorene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		

Sample Information

Client Sample ID: **SB24_0-2** **York Sample ID:** **25C0261-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:45 am	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.0703**	J	mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.187	0.375	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*75.0 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*75.2 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*70.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*68.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*72.9 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*70.7 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SB24_0-2 **York Sample ID:** 25C0261-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:45 am	03/05/2025

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM	03/12/2025 09:05	03/14/2025 12:18	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*82.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00182	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00182	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00182	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00182	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00182	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00182	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00182	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00182	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00182	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00182	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00182	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00182	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00182	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00182	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00182	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00182	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00182	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			

Sample Information

Client Sample ID: SB24_0-2 **York Sample ID:** 25C0261-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:45 am	03/05/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-44-8	Heptachlor	ND		mg/kg dry	0.00182	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00182	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00182	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.182	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0364	5	EPA 8081B	03/12/2025 09:18	03/13/2025 00:40	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*59.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*66.9 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0184	1	EPA 8082A	03/12/2025 09:15	03/13/2025 05:42	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0184	1	EPA 8082A	03/12/2025 09:15	03/13/2025 05:42	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0184	1	EPA 8082A	03/12/2025 09:15	03/13/2025 05:42	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0184	1	EPA 8082A	03/12/2025 09:15	03/13/2025 05:42	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0184	1	EPA 8082A	03/12/2025 09:15	03/13/2025 05:42	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0184	1	EPA 8082A	03/12/2025 09:15	03/13/2025 05:42	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0184	1	EPA 8082A	03/12/2025 09:15	03/13/2025 05:42	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0184	1	EPA 8082A	03/12/2025 09:15	03/13/2025 05:42	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*49.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*37.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB24_0-2** **York Sample ID:** **25C0261-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:45 am	03/05/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0219	1	EPA 8151A	03/12/2025 09:12	03/13/2025 12:14	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0219	1	EPA 8151A	03/12/2025 09:12	03/13/2025 12:14	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0219	1	EPA 8151A	03/12/2025 09:12	03/13/2025 12:14	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*90.8 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**10800**		mg/kg dry	4.69	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.35	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**1.96**		mg/kg dry	1.41	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**58.0**		mg/kg dry	2.34	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.302**		mg/kg dry	0.047	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.281	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1350**		mg/kg dry	4.69	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**30.8**		mg/kg dry	0.469	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**8.66**		mg/kg dry	0.375	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**24.1**		mg/kg dry	1.88	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**13600**		mg/kg dry	23.5	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**15.9**		mg/kg dry	0.469	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**2960**		mg/kg dry	4.69	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**249**		mg/kg dry	0.469	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**43.7**		mg/kg dry	0.934	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB24_0-2** **York Sample ID:** **25C0261-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:45 am	03/05/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1240**		mg/kg dry	4.69	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.35	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.473	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**343**		mg/kg dry	46.9	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.88	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**23.8**		mg/kg dry	0.934	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**33.9**		mg/kg dry	2.34	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0386**		mg/kg dry	0.0338	1	EPA 7473	03/08/2025 06:19	03/10/2025 10:22	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.563	1	EPA 7196A	03/11/2025 07:09	03/11/2025 12:10	SMM
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**30.8**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.563	1	EPA 9014/9010C	03/11/2025 08:14	03/11/2025 15:08	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB24_0-2** **York Sample ID:** **25C0261-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:45 am	03/05/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**88.8**		%	0.100	1	SM 2540G	03/07/2025 09:25	03/07/2025 12:45	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB24_5-7 **York Sample ID:** 25C0261-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:49 am	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.044	0.087	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB24_5-7 **York Sample ID:** 25C0261-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:49 am	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	CCVE, ICVE	mg/kg dry	0.0044	0.0087	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0044	0.0087	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB24_5-7 **York Sample ID:** 25C0261-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:49 am	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0044	0.0087	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0044	0.0087	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB24_5-7** **York Sample ID:** **25C0261-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:49 am	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0065	0.013	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:32	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*108 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0929	0.186	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0929	0.186	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0929	0.186	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB24_5-7 **York Sample ID:** 25C0261-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:49 am	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0929	0.186	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0929	0.186	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0929	0.186	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0929	0.186	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0929	0.186	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.186	0.372	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.186	0.372	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB24_5-7 **York Sample ID:** 25C0261-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:49 am	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0929	0.186	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0929	0.186	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB24_5-7 **York Sample ID:** 25C0261-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:49 am	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0466	0.0929	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.186	0.372	2	EPA 8270E	03/13/2025 09:02	03/13/2025 18:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*71.9 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*71.2 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*65.1 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*64.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*68.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*59.9 %*	*24-116*

Sample Information

Client Sample ID: SB24_5-7 **York Sample ID:** 25C0261-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:49 am	03/05/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.6	1	EPA 8270D SIM	03/12/2025 09:05	03/14/2025 12:33	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*102 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00184	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00184	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00184	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00184	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00184	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00184	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00184	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00184	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00184	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00184	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00184	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00184	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00184	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00184	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00184	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00184	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB24_5-7 **York Sample ID:** 25C0261-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:49 am	03/05/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00184	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00184	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00184	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00184	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.184	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0368	5	EPA 8081B	03/12/2025 09:18	03/13/2025 01:49	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*66.5 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.0 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0186	1	EPA 8082A	03/12/2025 09:15	03/13/2025 05:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0186	1	EPA 8082A	03/12/2025 09:15	03/13/2025 05:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0186	1	EPA 8082A	03/12/2025 09:15	03/13/2025 05:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0186	1	EPA 8082A	03/12/2025 09:15	03/13/2025 05:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0186	1	EPA 8082A	03/12/2025 09:15	03/13/2025 05:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0186	1	EPA 8082A	03/12/2025 09:15	03/13/2025 05:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0186	1	EPA 8082A	03/12/2025 09:15	03/13/2025 05:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0186	1	EPA 8082A	03/12/2025 09:15	03/13/2025 05:56	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*56.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*43.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SB24_5-7 **York Sample ID:** 25C0261-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:49 am	03/05/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0221	1	EPA 8151A	03/12/2025 09:12	03/13/2025 12:22	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0221	1	EPA 8151A	03/12/2025 09:12	03/13/2025 12:22	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0221	1	EPA 8151A	03/12/2025 09:12	03/13/2025 12:22	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*69.4 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9680**		mg/kg dry	4.65	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.33	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**1.55**		mg/kg dry	1.40	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**62.1**		mg/kg dry	2.32	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.332**		mg/kg dry	0.047	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.279	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1840**		mg/kg dry	4.66	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**43.1**		mg/kg dry	0.466	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**11.3**		mg/kg dry	0.372	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**15.9**		mg/kg dry	1.86	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**16300**		mg/kg dry	23.3	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**3.65**		mg/kg dry	0.466	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**5510**		mg/kg dry	4.66	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**316**		mg/kg dry	0.466	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**94.1**		mg/kg dry	0.927	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB24_5-7** **York Sample ID:** **25C0261-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:49 am	03/05/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1880**		mg/kg dry	4.66	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.33	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND	M-CCV 1	mg/kg dry	0.469	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**415**		mg/kg dry	46.6	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.87	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**28.3**		mg/kg dry	0.927	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**25.7**		mg/kg dry	2.32	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0335	1	EPA 7473	03/08/2025 06:18	03/10/2025 10:30	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.559	1	EPA 7196A	03/11/2025 07:09	03/11/2025 12:10	SMM
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**43.1**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.559	1	EPA 9014/9010C	03/11/2025 08:14	03/11/2025 15:08	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB24_5-7** **York Sample ID:** **25C0261-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 8:49 am	03/05/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.5**		%	0.100	1	SM 2540G	03/07/2025 09:25	03/07/2025 12:45	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB25_0-2** **York Sample ID:** **25C0261-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:21 am	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.050	0.10	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.012**		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB25_0-2** **York Sample ID:** **25C0261-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:21 am	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.039**	CCVE, ICVE	mg/kg dry	0.0050	0.010	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0050	0.010	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB25_0-2 **York Sample ID:** 25C0261-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:21 am	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0050	0.010	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0050	0.010	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB25_0-2** **York Sample ID:** **25C0261-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:21 am	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0075	0.015	1	EPA 8260D	03/07/2025 12:00	03/08/2025 04:57	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*110 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0928	0.185	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0928	0.185	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0928	0.185	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	**2-Methylnaphthalene**	**0.807**		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB25_0-2 **York Sample ID:** 25C0261-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:21 am	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0928	0.185	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0928	0.185	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0928	0.185	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0928	0.185	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0928	0.185	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	**Acenaphthene**	**0.453**		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.0824**	J	mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.186	0.372	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.433**		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.186	0.372	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.603**		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB25_0-2 **York Sample ID:** 25C0261-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:21 am	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.503**		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.440**		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.319**		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.439**		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0928	0.185	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	**Carbazole**	**0.187**		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.649**		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	**Dibenzo(a,h)anthracene**	**0.0735**	J	mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	**Dibenzofuran**	**0.288**		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	**Di-n-butyl phthalate**	**0.203**		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0928	0.185	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**1.41**		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB25_0-2** **York Sample ID:** **25C0261-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:21 am	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	**Fluorene**	**0.346**		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.335**		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.321**		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**1.40**		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**1.25**		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.186	0.372	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*44.6 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*45.9 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*39.5 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*40.1 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*40.0 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*43.3 %*	*24-116*

Sample Information

Client Sample ID: SB25_0-2 **York Sample ID:** 25C0261-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:21 am	03/05/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.6	1	EPA 8270D SIM	03/12/2025 09:05	03/14/2025 12:48	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*94.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00179	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00179	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00179	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00179	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00179	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00179	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00179	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00179	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00179	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00179	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00179	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00179	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00179	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB25_0-2 **York Sample ID:** 25C0261-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:21 am	03/05/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00179	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00179	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00179	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00179	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.179	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0358	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:06	RJ
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*25.8 %*	S-08, S-GC	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*44.0 %*		*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0181	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0181	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0181	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0181	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0181	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0181	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0181	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0181	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:10	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*40.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*30.5 %*	*30-120*

Sample Information

Client Sample ID: **SB25_0-2** **York Sample ID:** **25C0261-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:21 am	03/05/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0221	1	EPA 8151A	03/12/2025 09:12	03/13/2025 12:29	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0221	1	EPA 8151A	03/12/2025 09:12	03/13/2025 12:29	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0221	1	EPA 8151A	03/12/2025 09:12	03/13/2025 12:29	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*63.2 %*	*21-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8580**		mg/kg dry	4.65	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.33	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**4.34**		mg/kg dry	1.40	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**70.3**		mg/kg dry	2.32	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.342**		mg/kg dry	0.047	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.279	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**9490**		mg/kg dry	4.65	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**22.2**		mg/kg dry	0.466	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**11.0**		mg/kg dry	0.372	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**29.7**		mg/kg dry	1.86	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**22000**		mg/kg dry	23.3	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**66.8**		mg/kg dry	0.466	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3100**		mg/kg dry	4.66	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**404**		mg/kg dry	0.466	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB25_0-2** **York Sample ID:** **25C0261-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:21 am	03/05/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	**Nickel**	**25.1**		mg/kg dry	0.927	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**1380**		mg/kg dry	4.66	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.33	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND	M-CCV 1	mg/kg dry	0.469	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**326**		mg/kg dry	46.5	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.87	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**27.9**		mg/kg dry	0.927	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**141**		mg/kg dry	2.32	1	EPA 6010D	03/10/2025 14:47	03/11/2025 11:30	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.106**		mg/kg dry	0.0335	1	EPA 7473	03/08/2025 06:18	03/10/2025 10:30	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.558	1	EPA 7196A	03/11/2025 07:09	03/11/2025 12:10	SMM
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**22.2**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **SB25_0-2** **York Sample ID:** **25C0261-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:21 am	03/05/2025

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.558	1	EPA 9014/9010C	03/11/2025 08:14	03/11/2025 15:08	LJM
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.5**		%	0.100	1	SM 2540G	03/07/2025 09:25	03/07/2025 12:45	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB25_5-7 **York Sample ID:** 25C0261-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:27 am	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.041	0.082	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB25_5-7 **York Sample ID:** 25C0261-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:27 am	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.011**	CCVE, ICVE	mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	**Carbon disulfide**	**0.0028**	J	mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB25_5-7 **York Sample ID:** 25C0261-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:27 am	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0041	0.0082	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB25_5-7** **York Sample ID:** **25C0261-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:27 am	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0021	0.0041	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0062	0.012	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:22	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*109 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.139	0.278	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.139	0.278	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.139	0.278	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB25_5-7 **York Sample ID:** 25C0261-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:27 am	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.139	0.278	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.139	0.278	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.139	0.278	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.139	0.278	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.139	0.278	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.278	0.557	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.278	0.557	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB25_5-7 **York Sample ID:** 25C0261-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:27 am	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.139	0.278	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.139	0.278	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	Fluoranthene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB25_5-7 **York Sample ID:** 25C0261-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:27 am	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.278	0.557	2	EPA 8270E	03/13/2025 09:02	03/13/2025 19:39	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*81.6 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*89.2 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*77.3 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*75.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*72.8 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*73.4 %*	*24-116*

Sample Information

Client Sample ID: SB25_5-7 **York Sample ID:** 25C0261-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:27 am	03/05/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.4	1	EPA 8270D SIM	03/13/2025 09:35	03/14/2025 14:32	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*96.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB25_5-7 **York Sample ID:** 25C0261-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:27 am	03/05/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0367	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:24	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*54.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.2 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0185	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:24	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0185	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:24	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0185	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:24	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0185	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:24	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0185	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:24	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0185	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:24	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0185	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:24	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0185	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:24	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*55.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*42.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SB25_5-7 **York Sample ID:** 25C0261-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:27 am	03/05/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0222	1	EPA 8151A	03/12/2025 09:12	03/13/2025 12:36	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0222	1	EPA 8151A	03/12/2025 09:12	03/13/2025 12:36	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0222	1	EPA 8151A	03/12/2025 09:12	03/13/2025 12:36	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*84.0 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8810**		mg/kg dry	4.65	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.32	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**1.69**		mg/kg dry	1.39	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**43.0**		mg/kg dry	2.32	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.386**		mg/kg dry	0.047	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.279	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1310**		mg/kg dry	4.65	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**27.6**		mg/kg dry	0.465	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**8.02**		mg/kg dry	0.371	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**14.8**		mg/kg dry	1.86	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**15100**		mg/kg dry	23.2	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**4.75**		mg/kg dry	0.465	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**2220**		mg/kg dry	4.65	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**343**		mg/kg dry	0.465	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**27.9**		mg/kg dry	0.926	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB25_5-7** **York Sample ID:** **25C0261-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:27 am	03/05/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1370**		mg/kg dry	4.65	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.32	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND	M-CCV 1	mg/kg dry	0.468	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**208**		mg/kg dry	46.5	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.86	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**24.3**		mg/kg dry	0.926	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**23.8**		mg/kg dry	2.31	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0335	1	EPA 7473	03/08/2025 06:18	03/10/2025 10:30	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.558	1	EPA 7196A	03/11/2025 07:09	03/11/2025 12:10	SMM
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**27.6**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.558	1	EPA 9014/9010C	03/11/2025 08:14	03/11/2025 15:08	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB25_5-7** **York Sample ID:** **25C0261-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 10:27 am	03/05/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.6**		%	0.100	1	SM 2540G	03/07/2025 09:25	03/07/2025 12:45	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB26_0-2** **York Sample ID:** **25C0261-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:15 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.046	0.091	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.0024**	J	mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB26_0-2 **York Sample ID:** 25C0261-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:15 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.0091**	CCVE, ICVE	mg/kg dry	0.0046	0.0091	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0046	0.0091	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB26_0-2 **York Sample ID:** 25C0261-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:15 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0046	0.0091	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0046	0.0091	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB26_0-2** **York Sample ID:** **25C0261-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:15 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0068	0.014	1	EPA 8260D	03/07/2025 12:00	03/08/2025 05:47	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*108 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.130	0.260	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.130	0.260	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.130	0.260	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	**2-Methylnaphthalene**	**0.341**		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB26_0-2** **York Sample ID:** **25C0261-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:15 pm	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.130	0.260	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.130	0.260	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.130	0.260	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.130	0.260	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.130	0.260	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	**Acenaphthene**	**0.197**		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.153**		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.261	0.521	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.386**		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.261	0.521	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.733**		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB26_0-2 **York Sample ID:** 25C0261-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:15 pm	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.561**		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.639**		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.330**		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.579**		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.252**		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.130	0.260	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	**Carbazole**	**0.104**	J	mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**1.03**		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	**Dibenzo(a,h)anthracene**	**0.120**	J	mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	**Di-n-butyl phthalate**	**0.612**		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.130	0.260	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**1.31**		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB26_0-2** **York Sample ID:** **25C0261-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:15 pm	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	**Fluorene**	**0.252**		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.151**		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**1.24**		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**1.72**		mg/kg dry	0.0652	0.130	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.261	0.521	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:08	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*41.7 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*47.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*43.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*40.9 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*45.3 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*48.5 %*	*24-116*

Sample Information

Client Sample ID: SB26_0-2 **York Sample ID:** 25C0261-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:15 pm	03/05/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.6	1	EPA 8270D SIM	03/13/2025 09:35	03/14/2025 14:46	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*74.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00171	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00171	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00171	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00171	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00171	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00171	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00171	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00171	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00171	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00171	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00171	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00171	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00171	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00171	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00171	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00171	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB26_0-2 **York Sample ID:** 25C0261-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:15 pm	03/05/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00171	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00171	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00171	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00171	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.171	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0342	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:41	RJ
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*20.4 %*	S-08, S-GC	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*49.3 %*		*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0173	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:37	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0173	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:37	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0173	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:37	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0173	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:37	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0173	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:37	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0173	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:37	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0173	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:37	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0173	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:37	NF
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*39.5 %*		*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*26.0 %*	S-08, S-GC	*30-120*

Sample Information

Client Sample ID: **SB26_0-2** **York Sample ID:** **25C0261-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:15 pm	03/05/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0208	1	EPA 8151A	03/12/2025 09:12	03/13/2025 12:43	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0208	1	EPA 8151A	03/12/2025 09:12	03/13/2025 12:43	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0208	1	EPA 8151A	03/12/2025 09:12	03/13/2025 12:43	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*42.6 %*	*21-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**16000**		mg/kg dry	4.42	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.21	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		mg/kg dry	1.33	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**185**		mg/kg dry	2.21	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.355**		mg/kg dry	0.045	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.265	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**11700**		mg/kg dry	4.42	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**30.4**		mg/kg dry	0.442	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**16.5**		mg/kg dry	0.353	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**45.7**		mg/kg dry	1.77	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**27700**		mg/kg dry	22.1	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**11.5**		mg/kg dry	0.442	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**10000**		mg/kg dry	4.42	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**242**		mg/kg dry	0.442	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB26_0-2 **York Sample ID:** 25C0261-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:15 pm	03/05/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	**Nickel**	**25.3**		mg/kg dry	0.881	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**7410**		mg/kg dry	4.42	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.21	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND	M-CCV 1	mg/kg dry	0.446	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**389**		mg/kg dry	44.2	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.77	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**59.9**		mg/kg dry	0.881	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**70.8**		mg/kg dry	2.20	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:41	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0318	1	EPA 7473	03/08/2025 06:18	03/10/2025 10:30	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.531	1	EPA 7196A	03/11/2025 07:09	03/11/2025 12:10	SMM
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**30.4**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **SB26_0-2** **York Sample ID:** **25C0261-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:15 pm	03/05/2025

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.531	1	EPA 9014/9010C	03/11/2025 08:14	03/11/2025 15:08	LJM
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**94.2**		%	0.100	1	SM 2540G	03/07/2025 09:25	03/07/2025 12:45	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB26_5-7** **York Sample ID:** **25C0261-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:22 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.063	0.13	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.0070**		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB26_5-7 **York Sample ID:** 25C0261-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:22 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.029**	CCVE, ICVE	mg/kg dry	0.0063	0.013	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0063	0.013	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB26_5-7 **York Sample ID:** 25C0261-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:22 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0063	0.013	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0063	0.013	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB26_5-7 **York Sample ID:** 25C0261-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:22 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0031	0.0063	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0094	0.019	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:12	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*112 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.139	0.278	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.139	0.278	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.139	0.278	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB26_5-7 **York Sample ID:** 25C0261-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:22 pm	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.139	0.278	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.139	0.278	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.139	0.278	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.139	0.278	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.139	0.278	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.279	0.557	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.279	0.557	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.0756**	J	mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB26_5-7 **York Sample ID:** 25C0261-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:22 pm	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.139	0.278	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.139	0.278	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.173**		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB26_5-7** **York Sample ID:** **25C0261-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:22 pm	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.169**		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.149**		mg/kg dry	0.0697	0.139	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.279	0.557	2	EPA 8270E	03/13/2025 09:02	03/13/2025 20:38	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*17.7 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*16.3 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*13.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*18.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*14.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*19.3 %*	*24-116*

Sample Information

Client Sample ID: SB26_5-7 **York Sample ID:** 25C0261-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:22 pm	03/05/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.6	1	EPA 8270D SIM	03/13/2025 09:35	03/14/2025 15:01	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*92.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB26_5-7 **York Sample ID:** 25C0261-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:22 pm	03/05/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.183	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0367	5	EPA 8081B	03/12/2025 09:18	03/13/2025 02:58	RJ
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*28.0 %*	S-08, S-GC	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*56.9 %*		*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0185	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:51	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0185	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:51	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0185	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:51	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0185	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:51	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0185	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:51	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0185	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:51	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0185	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:51	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0185	1	EPA 8082A	03/12/2025 09:15	03/13/2025 06:51	NF
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*44.5 %*		*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*28.5 %*	S-08, S-GC	*30-120*

Sample Information

Client Sample ID: SB26_5-7 **York Sample ID:** 25C0261-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:22 pm	03/05/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0219	1	EPA 8151A	03/12/2025 09:12	03/13/2025 12:50	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0219	1	EPA 8151A	03/12/2025 09:12	03/13/2025 12:50	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0219	1	EPA 8151A	03/12/2025 09:12	03/13/2025 12:50	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*95.2 %*	*21-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**10200**		mg/kg dry	4.66	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.33	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.41**		mg/kg dry	1.40	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**86.3**		mg/kg dry	2.33	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.381**		mg/kg dry	0.047	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.280	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**4850**		mg/kg dry	4.66	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**27.1**		mg/kg dry	0.467	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**8.98**		mg/kg dry	0.373	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**50.9**		mg/kg dry	1.87	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**23500**		mg/kg dry	23.3	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**122**		mg/kg dry	0.467	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3230**		mg/kg dry	4.67	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**334**		mg/kg dry	0.467	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB26_5-7 **York Sample ID:** 25C0261-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:22 pm	03/05/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	**Nickel**	**23.6**		mg/kg dry	0.929	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**1660**		mg/kg dry	4.67	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.33	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND	M-CCV 1	mg/kg dry	0.470	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**127**		mg/kg dry	46.6	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.87	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**30.1**		mg/kg dry	0.929	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**172**		mg/kg dry	2.32	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0336	1	EPA 7473	03/08/2025 06:18	03/10/2025 10:30	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.560	1	EPA 7196A	03/11/2025 07:09	03/11/2025 12:10	SMM
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**27.1**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **SB26_5-7** **York Sample ID:** **25C0261-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 12:22 pm	03/05/2025

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.560	1	EPA 9014/9010C	03/11/2025 08:14	03/11/2025 15:08	LJM
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.4**		%	0.100	1	SM 2540G	03/07/2025 09:25	03/07/2025 12:45	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB27_0-2 **York Sample ID:** 25C0261-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:41 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.042	0.083	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB27_0-2 **York Sample ID:** 25C0261-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:41 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	CCVE, ICVE	mg/kg dry	0.0042	0.0083	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB27_0-2 **York Sample ID:** 25C0261-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:41 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB27_0-2 **York Sample ID:** 25C0261-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:41 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0021	0.0042	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0062	0.012	1	EPA 8260D	03/07/2025 12:00	03/08/2025 06:37	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*109 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.133	0.266	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.133	0.266	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.133	0.266	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB27_0-2 **York Sample ID:** 25C0261-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:41 pm	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.133	0.266	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.133	0.266	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.133	0.266	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.133	0.266	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.133	0.266	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.266	0.532	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.266	0.532	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.0765**	J	mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB27_0-2** **York Sample ID:** **25C0261-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:41 pm	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.0701**	J	mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.0691**	J	mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.133	0.266	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.0946**	J	mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.133	0.266	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.140**		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB27_0-2** **York Sample ID:** **25C0261-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:41 pm	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.0808**	J	mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.151**		mg/kg dry	0.0666	0.133	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.266	0.532	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*60.6 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*65.5 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*55.1 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*60.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*60.8 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*68.4 %*	*24-116*

Sample Information

Client Sample ID: SB27_0-2 **York Sample ID:** 25C0261-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:41 pm	03/05/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.6	1	EPA 8270D SIM Certifications: NELAC-NY10854	03/13/2025 09:35	03/14/2025 15:16	SS

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*72.0 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.119	0.190	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0568	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.112	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.192	0.196	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.184	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.179	0.199	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.202	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.205	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.212	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.175	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.134	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.110	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.159	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.208	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.117	0.428	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.156	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM

Sample Information

Client Sample ID: SB27_0-2 **York Sample ID:** 25C0261-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:41 pm	03/05/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.166	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.205	0.207	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.803	0.814	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.809	0.823	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.117	0.857	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.149	0.381	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/08/2025 11:47	03/10/2025 21:41	AM
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.207	0.428	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/08/2025 11:47	03/10/2025 21:41	AM
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0664	0.428	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/08/2025 11:47	03/10/2025 21:41	AM
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.103	0.428	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/08/2025 11:47	03/10/2025 21:41	AM
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.168	0.201	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.637	0.803	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.651	0.857	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.333	0.810	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.263	0.801	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
919005-14-4	* ADONA	ND		ug/kg dry	0.186	0.810	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.181	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/08/2025 11:47	03/10/2025 21:41	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.133	0.206	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/08/2025 11:47	03/10/2025 21:41	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.679	1.07	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/08/2025 11:47	03/10/2025 21:41	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.25	5.36	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/08/2025 11:47	03/10/2025 21:41	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.61	5.36	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/08/2025 11:47	03/10/2025 21:41	AM
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.654	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/08/2025 11:47	03/10/2025 21:41	AM

Sample Information

Client Sample ID: SB27_0-2 **York Sample ID:** 25C0261-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:41 pm	03/05/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.193	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/08/2025 11:47	03/10/2025 21:41	AM
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.747	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/08/2025 11:47	03/10/2025 21:41	AM
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.212	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/08/2025 11:47	03/10/2025 21:41	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*102 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*107 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*107 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*108 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*107 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*106 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*106 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*106 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*77.9 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*23.4 %*	PFSu-L	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*97.7 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*89.3 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*91.3 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*120 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*131 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*124 %*		*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*285 %*	PFSu-H	*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*92.7 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*93.5 %*		*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*66.8 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*61.9 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*72.4 %*		*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*65.8 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*61.2 %*		*25-150*

Sample Information

Client Sample ID: SB27_0-2 **York Sample ID:** 25C0261-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:41 pm	03/05/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00175	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:22	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00175	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:22	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00175	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:22	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		mg/kg dry	0.00175	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:22	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		mg/kg dry	0.00175	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:22	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00175	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:22	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
319-85-7	beta-BHC	ND		mg/kg dry	0.00175	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:22	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		mg/kg dry	0.00175	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:22	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		mg/kg dry	0.00175	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:22	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		mg/kg dry	0.00175	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:22	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00175	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:22	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00175	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:22	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		mg/kg dry	0.00175	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:22	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00175	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:22	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00175	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:22	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00175	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:22	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00175	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:22	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00175	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:22	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00175	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:22	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00175	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:22	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.175	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:22	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB27_0-2 **York Sample ID:** 25C0261-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:41 pm	03/05/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0350	5	EPA 8081B Certifications:	03/13/2025 08:58	03/13/2025 17:22	RJ

	Surrogate Recoveries	Result		Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*28.2 %*	S-08, S-GC	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.4 %*		*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/13/2025 08:50	03/13/2025 14:29	NF
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/13/2025 08:50	03/13/2025 14:29	NF
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/13/2025 08:50	03/13/2025 14:29	NF
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/13/2025 08:50	03/13/2025 14:29	NF
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/13/2025 08:50	03/13/2025 14:29	NF
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/13/2025 08:50	03/13/2025 14:29	NF
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/13/2025 08:50	03/13/2025 14:29	NF
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0174	1	EPA 8082A Certifications:	03/13/2025 08:50	03/13/2025 14:29	NF

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*44.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*33.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0209	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/12/2025 09:12	03/13/2025 12:57	GXB
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0209	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/12/2025 09:12	03/13/2025 12:57	GXB
94-75-7	2,4-D	ND		mg/kg dry	0.0209	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/12/2025 09:12	03/13/2025 12:57	GXB

Sample Information

Client Sample ID: SB27_0-2 **York Sample ID:** 25C0261-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:41 pm	03/05/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*56.2 %*	*21-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**14000**		mg/kg dry	4.47	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.24	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**1.64**		mg/kg dry	1.34	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**136**		mg/kg dry	2.23	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.370**		mg/kg dry	0.045	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.268	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**9320**		mg/kg dry	4.47	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**33.2**		mg/kg dry	0.448	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**14.8**		mg/kg dry	0.357	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**34.1**		mg/kg dry	1.79	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**26100**		mg/kg dry	22.4	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**13.2**		mg/kg dry	0.448	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**8840**		mg/kg dry	4.48	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**266**		mg/kg dry	0.448	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**25.7**		mg/kg dry	0.891	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**6720**		mg/kg dry	4.48	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.24	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB27_0-2 **York Sample ID:** 25C0261-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:41 pm	03/05/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND	M-CCV 1	mg/kg dry	0.451	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**232**		mg/kg dry	44.7	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.79	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**41.0**		mg/kg dry	0.891	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**70.8**		mg/kg dry	2.23	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:46	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0322	1	EPA 7473	03/08/2025 06:18	03/10/2025 10:30	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.537	1	EPA 7196A	03/11/2025 07:09	03/11/2025 12:10	SMM
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**33.2**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.537	1	EPA 9014/9010C	03/11/2025 08:14	03/11/2025 15:08	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB27_0-2** **York Sample ID:** **25C0261-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:41 pm	03/05/2025

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**93.2**		%	0.100	1	SM 2540G	03/07/2025 09:25	03/07/2025 12:45	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB27_5-7** **York Sample ID:** **25C0261-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:50 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.057	0.11	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.016**		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB27_5-7 **York Sample ID:** 25C0261-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:50 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.047**	CCVE, ICVE	mg/kg dry	0.0057	0.011	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB27_5-7 **York Sample ID:** 25C0261-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:50 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB27_5-7 **York Sample ID:** 25C0261-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:50 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0086	0.017	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*113 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.110	0.220	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.110	0.220	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.110	0.220	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB27_5-7** **York Sample ID:** **25C0261-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:50 pm	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.110	0.220	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.110	0.220	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.110	0.220	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.110	0.220	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.110	0.220	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.137**		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.221	0.441	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.128**		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.221	0.441	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.382**		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB27_5-7 **York Sample ID:** 25C0261-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:50 pm	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.352**		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.340**		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.203**		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.315**		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.110	0.220	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.404**		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	**Dibenzo(a,h)anthracene**	**0.0669**	J	mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.110	0.220	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.869**		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB27_5-7 **York Sample ID:** 25C0261-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:50 pm	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.217**		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.497**		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.840**		mg/kg dry	0.0552	0.110	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.221	0.441	2	EPA 8270E	03/13/2025 09:02	03/13/2025 21:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*43.8 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*42.4 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*42.1 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*43.1 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*47.1 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*49.0 %*	*24-116*

Sample Information

Client Sample ID: SB27_5-7 **York Sample ID:** 25C0261-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:50 pm	03/05/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM	03/13/2025 09:35	03/14/2025 15:31	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*94.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00218	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00218	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00218	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00218	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00218	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00218	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00218	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00218	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00218	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00218	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00218	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00218	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00218	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00218	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00218	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00218	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB27_5-7 **York Sample ID:** 25C0261-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:50 pm	03/05/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00218	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00218	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00218	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00218	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.218	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0436	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:39	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*49.5 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.0 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0220	1	EPA 8082A	03/13/2025 08:50	03/13/2025 14:43	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0220	1	EPA 8082A	03/13/2025 08:50	03/13/2025 14:43	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0220	1	EPA 8082A	03/13/2025 08:50	03/13/2025 14:43	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0220	1	EPA 8082A	03/13/2025 08:50	03/13/2025 14:43	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0220	1	EPA 8082A	03/13/2025 08:50	03/13/2025 14:43	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0220	1	EPA 8082A	03/13/2025 08:50	03/13/2025 14:43	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0220	1	EPA 8082A	03/13/2025 08:50	03/13/2025 14:43	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0220	1	EPA 8082A	03/13/2025 08:50	03/13/2025 14:43	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*52.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*39.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SB27_5-7 **York Sample ID:** 25C0261-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:50 pm	03/05/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0266	1	EPA 8151A	03/12/2025 09:12	03/13/2025 13:33	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0266	1	EPA 8151A	03/12/2025 09:12	03/13/2025 13:33	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0266	1	EPA 8151A	03/12/2025 09:12	03/13/2025 13:33	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*52.6 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**18900**		mg/kg dry	5.58	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.79	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**10.2**		mg/kg dry	1.67	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**810**		mg/kg dry	2.78	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.397**		mg/kg dry	0.056	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.335	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**2110**		mg/kg dry	5.58	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**70.6**		mg/kg dry	0.558	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**11.3**		mg/kg dry	0.446	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**32.3**		mg/kg dry	2.23	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**33300**		mg/kg dry	27.9	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**1130**		mg/kg dry	0.558	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**6570**		mg/kg dry	5.58	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**205**		mg/kg dry	0.558	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**70.8**		mg/kg dry	1.11	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB27_5-7 **York Sample ID:** 25C0261-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:50 pm	03/05/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**4600**		mg/kg dry	5.58	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.79	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND	M-CCV 1	mg/kg dry	0.562	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**243**		mg/kg dry	55.8	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.24	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**53.7**		mg/kg dry	1.11	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**132**		mg/kg dry	2.78	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:47	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0854**		mg/kg dry	0.0402	1	EPA 7473	03/08/2025 06:18	03/10/2025 10:30	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.669	1	EPA 7196A	03/11/2025 09:00	03/11/2025 16:30	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**70.6**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.669	1	EPA 9014/9010C	03/11/2025 08:14	03/11/2025 15:08	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB27_5-7** **York Sample ID:** **25C0261-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 2:50 pm	03/05/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**74.7**		%	0.100	1	SM 2540G	03/07/2025 09:25	03/07/2025 12:45	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB28_0-2 **York Sample ID:** 25C0261-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:28 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.055	0.11	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB28_0-2 **York Sample ID:** 25C0261-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:28 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	CCVE, ICVE	mg/kg dry	0.0055	0.011	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0055	0.011	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB28_0-2 **York Sample ID:** 25C0261-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:28 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0055	0.011	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0055	0.011	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB28_0-2 **York Sample ID:** 25C0261-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:28 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0082	0.016	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*111 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0963	0.192	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0963	0.192	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0963	0.192	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB28_0-2 **York Sample ID:** 25C0261-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:28 pm	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0963	0.192	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0963	0.192	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0963	0.192	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0963	0.192	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0963	0.192	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	**Acenaphthene**	**0.0608**	J	mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.118**		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.193	0.385	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.284**		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.193	0.385	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.522**		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB28_0-2 **York Sample ID:** 25C0261-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:28 pm	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.349**		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.442**		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.290**		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.476**		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.0623**	J	mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0963	0.192	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	**Carbazole**	**0.0985**		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.544**		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	**Dibenzo(a,h)anthracene**	**0.0954**	J	mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	**Dibenzofuran**	**0.0492**	J	mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0963	0.192	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**1.09**		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB28_0-2** **York Sample ID:** **25C0261-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:28 pm	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	**Fluorene**	**0.0969**		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.305**		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.829**		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**1.03**		mg/kg dry	0.0482	0.0963	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.193	0.385	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*53.3 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*53.9 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*50.7 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*54.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*63.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*65.1 %*	*24-116*

Sample Information

Client Sample ID: **SB28_0-2** **York Sample ID:** **25C0261-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:28 pm	03/05/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.5	1	EPA 8270D SIM	03/13/2025 09:35	03/14/2025 15:46	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*82.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00190	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00190	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00190	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00190	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00190	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	**alpha-Chlordane**	**0.00337**		mg/kg dry	0.00190	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00190	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00190	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00190	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00190	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00190	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00190	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00190	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00190	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00190	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00190	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB28_0-2 **York Sample ID:** 25C0261-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:28 pm	03/05/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	**gamma-Chlordane**	**0.00301**		mg/kg dry	0.00190	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
76-44-8	Heptachlor	ND		mg/kg dry	0.00190	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00190	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-43-5	Methoxychlor	ND		mg/kg dry	0.00190	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
8001-35-2	Toxaphene	ND		mg/kg dry	0.190	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0381	5	EPA 8081B	03/13/2025 08:58	03/13/2025 17:56	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*51.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*73.6 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0192	1	EPA 8082A	03/13/2025 08:50	03/13/2025 14:57	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0192	1	EPA 8082A	03/13/2025 08:50	03/13/2025 14:57	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0192	1	EPA 8082A	03/13/2025 08:50	03/13/2025 14:57	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0192	1	EPA 8082A	03/13/2025 08:50	03/13/2025 14:57	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0192	1	EPA 8082A	03/13/2025 08:50	03/13/2025 14:57	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0192	1	EPA 8082A	03/13/2025 08:50	03/13/2025 14:57	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0192	1	EPA 8082A	03/13/2025 08:50	03/13/2025 14:57	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0192	1	EPA 8082A	03/13/2025 08:50	03/13/2025 14:57	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*48.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*36.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SB28_0-2 **York Sample ID:** 25C0261-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:28 pm	03/05/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0232	1	EPA 8151A	03/12/2025 09:12	03/13/2025 13:40	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0232	1	EPA 8151A	03/12/2025 09:12	03/13/2025 13:40	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0232	1	EPA 8151A	03/12/2025 09:12	03/13/2025 13:40	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*72.6 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**2660**		mg/kg dry	4.87	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.44	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		mg/kg dry	1.46	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**21.8**		mg/kg dry	2.43	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.110**		mg/kg dry	0.049	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.292	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**2430**		mg/kg dry	4.87	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**6.64**		mg/kg dry	0.488	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**2.25**		mg/kg dry	0.389	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**6.00**		mg/kg dry	1.95	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**3940**		mg/kg dry	24.4	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**7.91**		mg/kg dry	0.488	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**1210**		mg/kg dry	4.88	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**83.9**		mg/kg dry	0.488	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**4.07**		mg/kg dry	0.971	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB28_0-2 **York Sample ID:** 25C0261-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:28 pm	03/05/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**603**		mg/kg dry	4.88	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.44	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND	M-CCV 1	mg/kg dry	0.491	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	Sodium	ND		mg/kg dry	48.7	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.95	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**7.71**		mg/kg dry	0.971	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**16.2**		mg/kg dry	2.43	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:54	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0971**		mg/kg dry	0.0351	1	EPA 7473	03/08/2025 06:18	03/10/2025 10:30	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.585	1	EPA 7196A	03/11/2025 07:09	03/11/2025 12:10	SMM
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**6.64**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.585	1	EPA 9014/9010C	03/11/2025 08:14	03/11/2025 15:08	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB28_0-2** **York Sample ID:** **25C0261-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:28 pm	03/05/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**85.5**		%	0.100	1	SM 2540G	03/07/2025 09:25	03/07/2025 12:45	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB28_5-7** **York Sample ID:** **25C0261-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:40 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.073	0.15	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.0094**		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB28_5-7 **York Sample ID:** 25C0261-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:40 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.035**	CCVE, ICVE	mg/kg dry	0.0073	0.015	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0073	0.015	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB28_5-7 **York Sample ID:** 25C0261-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:40 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0073	0.015	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0073	0.015	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB28_5-7** **York Sample ID:** **25C0261-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:40 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0036	0.0073	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.011	0.022	1	EPA 8260D	03/07/2025 12:00	03/08/2025 07:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*115 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0914	0.183	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0914	0.183	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0914	0.183	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB28_5-7 **York Sample ID:** 25C0261-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:40 pm	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0914	0.183	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0914	0.183	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0914	0.183	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0914	0.183	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0914	0.183	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.183	0.366	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.183	0.366	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.0870**	J	mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB28_5-7 **York Sample ID:** 25C0261-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:40 pm	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.0738**	J	mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.0804**	J	mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.0519**	J	mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.0767**	J	mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0914	0.183	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.0928**		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0914	0.183	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.129**		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB28_5-7** **York Sample ID:** **25C0261-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:40 pm	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.0555**	J	mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.103**		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.0636**	J	mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.128**		mg/kg dry	0.0458	0.0914	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.183	0.366	2	EPA 8270E	03/13/2025 09:02	03/13/2025 22:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*63.1 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*60.1 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*46.5 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*55.8 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*54.9 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*54.9 %*	*24-116*

Sample Information

Client Sample ID: SB28_5-7 **York Sample ID:** 25C0261-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:40 pm	03/05/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.6	1	EPA 8270D SIM	03/13/2025 09:35	03/14/2025 16:01	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*90.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00178	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00178	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00178	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00178	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00178	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00178	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00178	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00178	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00178	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00178	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00178	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00178	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00178	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB28_5-7 **York Sample ID:** 25C0261-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:40 pm	03/05/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00178	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00178	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00178	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00178	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.178	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0356	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:13	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*51.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*74.1 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0183	1	EPA 8082A	03/13/2025 08:50	03/13/2025 15:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0183	1	EPA 8082A	03/13/2025 08:50	03/13/2025 15:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0183	1	EPA 8082A	03/13/2025 08:50	03/13/2025 15:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0183	1	EPA 8082A	03/13/2025 08:50	03/13/2025 15:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0183	1	EPA 8082A	03/13/2025 08:50	03/13/2025 15:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0183	1	EPA 8082A	03/13/2025 08:50	03/13/2025 15:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0183	1	EPA 8082A	03/13/2025 08:50	03/13/2025 15:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0183	1	EPA 8082A	03/13/2025 08:50	03/13/2025 15:10	NF
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*38.5 %*		*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*26.5 %*	S-08, S-GC	*30-120*

Sample Information

Client Sample ID: SB28_5-7 **York Sample ID:** 25C0261-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:40 pm	03/05/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0217	1	EPA 8151A	03/11/2025 09:24	03/12/2025 21:36	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0217	1	EPA 8151A	03/11/2025 09:24	03/12/2025 21:36	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0217	1	EPA 8151A	03/11/2025 09:24	03/12/2025 21:36	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*102 %*	*21-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9910**		mg/kg dry	4.63	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.31	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**4.60**		mg/kg dry	1.39	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**100**		mg/kg dry	2.31	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.360**		mg/kg dry	0.047	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.657**		mg/kg dry	0.278	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**2280**		mg/kg dry	4.63	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**29.6**		mg/kg dry	0.463	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**7.69**		mg/kg dry	0.370	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**64.7**		mg/kg dry	1.85	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**17100**		mg/kg dry	23.1	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**138**		mg/kg dry	0.463	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**2870**		mg/kg dry	4.63	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**145**		mg/kg dry	0.463	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB28_5-7** **York Sample ID:** **25C0261-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:40 pm	03/05/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	**Nickel**	**36.5**		mg/kg dry	0.922	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**1520**		mg/kg dry	4.63	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.31	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND	M-CCV 1	mg/kg dry	0.467	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**376**		mg/kg dry	46.3	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.86	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**35.9**		mg/kg dry	0.922	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**195**		mg/kg dry	2.30	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:55	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.238**		mg/kg dry	0.0333	1	EPA 7473	03/08/2025 06:18	03/10/2025 10:30	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.555	1	EPA 7196A	03/11/2025 09:00	03/11/2025 16:30	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**29.6**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **SB28_5-7** **York Sample ID:** **25C0261-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:40 pm	03/05/2025

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.555	1	EPA 9014/9010C	03/11/2025 08:14	03/11/2025 15:08	LJM
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.0**		%	0.100	1	SM 2540G	03/07/2025 09:25	03/07/2025 12:45	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SODUP05_030525** **York Sample ID:** **25C0261-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:00 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.047	0.094	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SODUP05_030525** **York Sample ID:** **25C0261-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:00 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.0052**	J, CCVE, ICVE	mg/kg dry	0.0047	0.0094	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0047	0.0094	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: **SODUP05_030525** **York Sample ID:** **25C0261-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:00 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0047	0.0094	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0047	0.0094	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SODUP05_030525** **York Sample ID:** **25C0261-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:00 pm	03/05/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0070	0.014	1	EPA 8260D	03/07/2025 12:00	03/08/2025 08:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*113 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0928	0.185	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0928	0.185	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0928	0.185	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SODUP05_030525** **York Sample ID:** **25C0261-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:00 pm	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0928	0.185	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0928	0.185	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0928	0.185	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0928	0.185	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0928	0.185	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.186	0.372	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.186	0.372	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		

Sample Information

Client Sample ID: SODUP05_030525 **York Sample ID:** 25C0261-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:00 pm	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0928	0.185	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0928	0.185	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		

Sample Information

Client Sample ID: **SODUP05_030525** **York Sample ID:** **25C0261-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:00 pm	03/05/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	Fluoranthene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	Fluorene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		mg/kg dry	0.0465	0.0928	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.186	0.372	2	EPA 8270E	03/13/2025 09:02	03/13/2025 23:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*59.1 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*55.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*49.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*54.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*65.5 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*57.8 %*	*24-116*

Sample Information

Client Sample ID: **SODUP05_030525** **York Sample ID:** **25C0261-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:00 pm	03/05/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.5	1	EPA 8270D SIM	03/13/2025 09:35	03/14/2025 16:15	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*92.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00184	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00184	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00184	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00184	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00184	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00184	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00184	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00184	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00184	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00184	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00184	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00184	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00184	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00184	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00184	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00184	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SODUP05_030525 **York Sample ID:** 25C0261-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:00 pm	03/05/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00184	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00184	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00184	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00184	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.184	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0367	5	EPA 8081B	03/13/2025 08:58	03/13/2025 18:31	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*52.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.3 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0185	1	EPA 8082A	03/13/2025 08:50	03/13/2025 15:24	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0185	1	EPA 8082A	03/13/2025 08:50	03/13/2025 15:24	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0185	1	EPA 8082A	03/13/2025 08:50	03/13/2025 15:24	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0185	1	EPA 8082A	03/13/2025 08:50	03/13/2025 15:24	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0185	1	EPA 8082A	03/13/2025 08:50	03/13/2025 15:24	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0185	1	EPA 8082A	03/13/2025 08:50	03/13/2025 15:24	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0185	1	EPA 8082A	03/13/2025 08:50	03/13/2025 15:24	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0185	1	EPA 8082A	03/13/2025 08:50	03/13/2025 15:24	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*53.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*41.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SODUP05_030525** **York Sample ID:** **25C0261-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:00 pm	03/05/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0222	1	EPA 8151A	03/11/2025 09:24	03/12/2025 21:43	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0222	1	EPA 8151A	03/11/2025 09:24	03/12/2025 21:43	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0222	1	EPA 8151A	03/11/2025 09:24	03/12/2025 21:43	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*90.8 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9800**		mg/kg dry	4.70	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.35	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		mg/kg dry	1.41	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**63.8**		mg/kg dry	2.34	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.343**		mg/kg dry	0.047	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.282	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**2010**		mg/kg dry	4.70	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**40.0**		mg/kg dry	0.470	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**10.2**		mg/kg dry	0.375	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**19.0**		mg/kg dry	1.88	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**17200**		mg/kg dry	23.5	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**3.65**		mg/kg dry	0.470	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**4690**		mg/kg dry	4.70	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**202**		mg/kg dry	0.470	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**88.3**		mg/kg dry	0.936	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SODUP05_030525** **York Sample ID:** **25C0261-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:00 pm	03/05/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1890**		mg/kg dry	4.70	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.35	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND	M-CCV 1	mg/kg dry	0.473	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**416**		mg/kg dry	47.0	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.88	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**30.1**		mg/kg dry	0.936	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**27.1**		mg/kg dry	2.34	1	EPA 6010D	03/10/2025 14:50	03/11/2025 11:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0338	1	EPA 7473	03/08/2025 06:18	03/10/2025 10:30	DBT
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.564	1	EPA 7196A	03/11/2025 09:00	03/11/2025 16:30	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**40.0**		mg/kg	0.500	1	Calculation	03/11/2025 14:41	03/11/2025 15:00	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.564	1	EPA 9014/9010C	03/11/2025 08:14	03/11/2025 15:08	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SODUP05_030525** **York Sample ID:** **25C0261-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0261	170773001	Soil	March 5, 2025 3:00 pm	03/05/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**88.7**		%	0.100	1	SM 2540G	03/07/2025 09:25	03/07/2025 12:45	SMM
							Certifications: CTDOH-PH-0723			

Analytical Batch Summary

Batch ID: BC50356 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-01	SOFB03_030525	03/05/25
BC50356-BLK1	Blank	03/05/25
BC50356-BS1	LCS	03/05/25

Batch ID: BC50381 **Preparation Method:** EPA 5030B **Prepared By:** SCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-03	SOTB03_030525	03/06/25
BC50381-BLK1	Blank	03/06/25
BC50381-BS1	LCS	03/06/25

Batch ID: BC50466 **Preparation Method:** EPA 5030B **Prepared By:** PMB

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-01	SOFB03_030525	03/06/25
BC50466-BLK1	Blank	03/06/25
BC50466-BS1	LCS	03/06/25

Batch ID: BC50497 **Preparation Method:** EPA 3535A **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-01	SOFB03_030525	03/07/25
BC50497-BLK1	Blank	03/07/25
BC50497-BS1	LCS	03/07/25

Batch ID: BC50511 **Preparation Method:** % Solids Prep **Prepared By:** SMM

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-04	SB24_0-2	03/07/25
25C0261-05	SB24_5-7	03/07/25
25C0261-06	SB25_0-2	03/07/25
25C0261-07	SB25_5-7	03/07/25
25C0261-08	SB26_0-2	03/07/25
25C0261-09	SB26_5-7	03/07/25
25C0261-10	SB27_0-2	03/07/25
25C0261-11	SB27_5-7	03/07/25
25C0261-12	SB28_0-2	03/07/25
25C0261-13	SB28_5-7	03/07/25
25C0261-14	SODUP05_030525	03/07/25
BC50511-DUP1	Duplicate	03/07/25

Batch ID: BC50548 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** AJC

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-01	SOFB03_030525	03/07/25
BC50548-BLK1	Blank	03/07/25
BC50548-BS2	LCS	03/07/25

Batch ID: BC50577 **Preparation Method:** EPA 5035A **Prepared By:** AC

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-04	SB24_0-2	03/07/25
25C0261-05	SB24_5-7	03/07/25
25C0261-06	SB25_0-2	03/07/25
25C0261-07	SB25_5-7	03/07/25
25C0261-08	SB26_0-2	03/07/25
25C0261-09	SB26_5-7	03/07/25
25C0261-10	SB27_0-2	03/07/25
25C0261-11	SB27_5-7	03/07/25
25C0261-12	SB28_0-2	03/07/25
25C0261-13	SB28_5-7	03/07/25
25C0261-14	SODUP05_030525	03/07/25
BC50577-BLK1	Blank	03/07/25
BC50577-BS1	LCS	03/07/25
BC50577-BSD1	LCS Dup	03/07/25
BC50577-MS1	Matrix Spike	03/07/25
BC50577-MSD1	Matrix Spike Dup	03/07/25

Batch ID: BC50586 **Preparation Method:** EPA 7473 soil **Prepared By:** DRS

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-05	SB24_5-7	03/08/25
25C0261-06	SB25_0-2	03/08/25
25C0261-07	SB25_5-7	03/08/25
25C0261-08	SB26_0-2	03/08/25
25C0261-09	SB26_5-7	03/08/25
25C0261-10	SB27_0-2	03/08/25
25C0261-11	SB27_5-7	03/08/25
25C0261-12	SB28_0-2	03/08/25
25C0261-13	SB28_5-7	03/08/25
25C0261-14	SODUP05_030525	03/08/25
BC50586-BLK1	Blank	03/08/25
BC50586-DUP1	Duplicate	03/08/25
BC50586-MS1	Matrix Spike	03/08/25
BC50586-SRM1	Reference	03/08/25

Batch ID: BC50587 **Preparation Method:** EPA 7473 soil **Prepared By:** DRS

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-04	SB24_0-2	03/08/25
BC50587-BLK1	Blank	03/08/25

BC50587-SRM1	Reference	03/08/25

Batch ID: BC50602 **Preparation Method:** EPA 1633 Prep **Prepared By:** JBG

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-10	SB27_0-2	03/08/25
BC50602-BLK1	Blank	03/08/25
BC50602-BS1	LCS	03/08/25
BC50602-BS2	LCS	03/08/25

Batch ID: BC50629 **Preparation Method:** EPA SW846-7470A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-01	SOFB03_030525	03/10/25
BC50629-BLK1	Blank	03/10/25
BC50629-BLK2	Blank	03/10/25
BC50629-BS1	LCS	03/10/25
BC50629-BS2	LCS	03/10/25

Batch ID: BC50644 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** DCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-01	SOFB03_030525	03/10/25
BC50644-BLK1	Blank	03/10/25
BC50644-BS1	LCS	03/10/25
BC50644-BSD1	LCS Dup	03/10/25

Batch ID: BC50647 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-01	SOFB03_030525	03/10/25
BC50647-BLK1	Blank	03/10/25
BC50647-BS1	LCS	03/10/25

Batch ID: BC50648 **Preparation Method:** EPA 8151A **Prepared By:** YL

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-01	SOFB03_030525	03/10/25
BC50648-BLK1	Blank	03/10/25
BC50648-BS1	LCS	03/10/25
BC50648-BSD1	LCS Dup	03/10/25

Batch ID: BC50651 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-01	SOFB03_030525	03/10/25
BC50651-BLK1	Blank	03/10/25

BC50651-BS1	LCS	03/10/25
BC50651-DUP1	Duplicate	03/10/25
BC50651-MS1	Matrix Spike	03/10/25

Batch ID: BC50690 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-01	SOFB03_030525	03/10/25
BC50690-BLK1	Blank	03/10/25
BC50690-BS1	LCS	03/10/25

Batch ID: BC50700 **Preparation Method:** EPA 3050B **Prepared By:** KMQ

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-04	SB24_0-2	03/10/25
25C0261-05	SB24_5-7	03/10/25
25C0261-06	SB25_0-2	03/10/25
BC50700-BLK1	Blank	03/10/25
BC50700-DUP1	Duplicate	03/10/25
BC50700-MS1	Matrix Spike	03/10/25
BC50700-PS1	Post Spike	03/10/25
BC50700-SRM1	Reference	03/10/25

Batch ID: BC50702 **Preparation Method:** EPA 3050B **Prepared By:** KMQ

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-07	SB25_5-7	03/10/25
25C0261-08	SB26_0-2	03/10/25
25C0261-09	SB26_5-7	03/10/25
25C0261-10	SB27_0-2	03/10/25
25C0261-11	SB27_5-7	03/10/25
25C0261-12	SB28_0-2	03/10/25
25C0261-13	SB28_5-7	03/10/25
25C0261-14	SODUP05_030525	03/10/25
BC50702-BLK1	Blank	03/10/25
BC50702-DUP1	Duplicate	03/10/25
BC50702-MS1	Matrix Spike	03/10/25
BC50702-PS1	Post Spike	03/10/25
BC50702-SRM1	Reference	03/10/25

Batch ID: BC50740 **Preparation Method:** EPA SW846-3060 **Prepared By:** SMM

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-04	SB24_0-2	03/11/25
25C0261-05	SB24_5-7	03/11/25
25C0261-06	SB25_0-2	03/11/25
25C0261-07	SB25_5-7	03/11/25
25C0261-08	SB26_0-2	03/11/25
25C0261-09	SB26_5-7	03/11/25

25C0261-10	SB27_0-2	03/11/25
25C0261-12	SB28_0-2	03/11/25
BC50740-BLK1	Blank	03/11/25
BC50740-SRM1	Reference	03/11/25

Batch ID: BC50748 **Preparation Method:** Analysis Preparation Soil **Prepared By:** LJM

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-04	SB24_0-2	03/11/25
25C0261-05	SB24_5-7	03/11/25
25C0261-06	SB25_0-2	03/11/25
25C0261-07	SB25_5-7	03/11/25
25C0261-08	SB26_0-2	03/11/25
25C0261-09	SB26_5-7	03/11/25
25C0261-10	SB27_0-2	03/11/25
25C0261-11	SB27_5-7	03/11/25
25C0261-12	SB28_0-2	03/11/25
25C0261-13	SB28_5-7	03/11/25
25C0261-14	SODUP05_030525	03/11/25
BC50748-BLK1	Blank	03/11/25
BC50748-DUP1	Duplicate	03/11/25
BC50748-MS1	Matrix Spike	03/11/25
BC50748-MSD1	Matrix Spike Dup	03/11/25
BC50748-SRM1	Reference	03/11/25

Batch ID: BC50750 **Preparation Method:** EPA 3510C **Prepared By:** NMB2

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-01	SOFB03_030525	03/11/25
BC50750-BLK1	Blank	03/11/25
BC50750-BS1	LCS	03/11/25

Batch ID: BC50752 **Preparation Method:** EPA 3510C **Prepared By:** NMB2

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-01	SOFB03_030525	03/11/25

Batch ID: BC50758 **Preparation Method:** EPA SW846-3060 **Prepared By:** JAMT

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-11	SB27_5-7	03/11/25
25C0261-13	SB28_5-7	03/11/25
25C0261-14	SODUP05_030525	03/11/25
BC50758-BLK1	Blank	03/11/25
BC50758-DUP1	Duplicate	03/11/25
BC50758-MS1	Matrix Spike	03/11/25
BC50758-MSD1	Matrix Spike Dup	03/11/25
BC50758-SRM1	Reference	03/11/25

Batch ID: BC50765 **Preparation Method:** EPA 3550C/8151A **Prepared By:** JAA

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-13	SB28_5-7	03/11/25
25C0261-14	SODUP05_030525	03/11/25
BC50765-BLK1	Blank	03/11/25
BC50765-BS1	LCS	03/11/25

Batch ID: BC50799 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-04	SB24_0-2	03/11/25
25C0261-05	SB24_5-7	03/11/25
25C0261-06	SB25_0-2	03/11/25
25C0261-07	SB25_5-7	03/11/25
25C0261-08	SB26_0-2	03/11/25
25C0261-09	SB26_5-7	03/11/25
25C0261-10	SB27_0-2	03/11/25
25C0261-11	SB27_5-7	03/11/25
25C0261-12	SB28_0-2	03/11/25
25C0261-13	SB28_5-7	03/11/25
25C0261-14	SODUP05_030525	03/11/25

Batch ID: BC50801 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-01	SOFB03_030525	03/11/25

Batch ID: BC50813 **Preparation Method:** EPA 1633 Prep **Prepared By:** JBG

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-02	SOFB03_PFAS_030525	03/11/25
BC50813-BLK1	Blank	03/11/25
BC50813-BS1	LCS	03/11/25
BC50813-BS2	LCS	03/11/25

Batch ID: BC50862 **Preparation Method:** EPA 3550C **Prepared By:** JAA

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-04	SB24_0-2	03/12/25
25C0261-05	SB24_5-7	03/12/25
25C0261-06	SB25_0-2	03/12/25
BC50862-BLK1	Blank	03/12/25
BC50862-BS1	LCS	03/12/25

Batch ID: BC50866 **Preparation Method:** EPA 3550C/8151A **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-04	SB24_0-2	03/12/25
25C0261-05	SB24_5-7	03/12/25
25C0261-06	SB25_0-2	03/12/25
25C0261-07	SB25_5-7	03/12/25
25C0261-08	SB26_0-2	03/12/25
25C0261-09	SB26_5-7	03/12/25
25C0261-10	SB27_0-2	03/12/25
25C0261-11	SB27_5-7	03/12/25
25C0261-12	SB28_0-2	03/12/25
BC50866-BLK1	Blank	03/12/25
BC50866-BS1	LCS	03/12/25
BC50866-MS1	Matrix Spike	03/12/25
BC50866-MSD1	Matrix Spike Dup	03/12/25

Batch ID: BC50867 **Preparation Method:** EPA 3550C **Prepared By:** JAA

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-04	SB24_0-2	03/12/25
25C0261-05	SB24_5-7	03/12/25
25C0261-06	SB25_0-2	03/12/25
25C0261-07	SB25_5-7	03/12/25
25C0261-08	SB26_0-2	03/12/25
25C0261-09	SB26_5-7	03/12/25
BC50867-BLK1	Blank	03/12/25
BC50867-BS2	LCS	03/12/25

Batch ID: BC50869 **Preparation Method:** EPA 3550C **Prepared By:** JAA

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-04	SB24_0-2	03/12/25
25C0261-05	SB24_5-7	03/12/25
25C0261-06	SB25_0-2	03/12/25
25C0261-07	SB25_5-7	03/12/25
25C0261-08	SB26_0-2	03/12/25
25C0261-09	SB26_5-7	03/12/25
BC50869-BLK1	Blank	03/12/25
BC50869-BS1	LCS	03/12/25
BC50869-MS1	Matrix Spike	03/12/25
BC50869-MSD1	Matrix Spike Dup	03/12/25

Batch ID: BC50952 **Preparation Method:** EPA 3550C **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-10	SB27_0-2	03/13/25
25C0261-11	SB27_5-7	03/13/25
25C0261-12	SB28_0-2	03/13/25
25C0261-13	SB28_5-7	03/13/25

25C0261-14	SODUP05_030525	03/13/25
BC50952-BLK1	Blank	03/13/25
BC50952-BS2	LCS	03/13/25
BC50952-MS2	Matrix Spike	03/13/25
BC50952-MSD2	Matrix Spike Dup	03/13/25

Batch ID: BC50955 **Preparation Method:** EPA 3550C **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-10	SB27_0-2	03/13/25
25C0261-11	SB27_5-7	03/13/25
25C0261-12	SB28_0-2	03/13/25
25C0261-13	SB28_5-7	03/13/25
25C0261-14	SODUP05_030525	03/13/25
BC50955-BLK1	Blank	03/13/25
BC50955-BS1	LCS	03/13/25
BC50955-MS1	Matrix Spike	03/13/25
BC50955-MSD1	Matrix Spike Dup	03/13/25

Batch ID: BC50959 **Preparation Method:** EPA 3546- SVOA RCP **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-04	SB24_0-2	03/13/25
25C0261-05	SB24_5-7	03/13/25
25C0261-06	SB25_0-2	03/13/25
25C0261-07	SB25_5-7	03/13/25
25C0261-08	SB26_0-2	03/13/25
25C0261-09	SB26_5-7	03/13/25
25C0261-10	SB27_0-2	03/13/25
25C0261-11	SB27_5-7	03/13/25
25C0261-12	SB28_0-2	03/13/25
25C0261-13	SB28_5-7	03/13/25
25C0261-14	SODUP05_030525	03/13/25
BC50959-BLK1	Blank	03/13/25
BC50959-BS1	LCS	03/13/25
BC50959-MS1	Matrix Spike	03/13/25
BC50959-MSD1	Matrix Spike Dup	03/13/25

Batch ID: BC50970 **Preparation Method:** EPA 3550C **Prepared By:** JAA

YORK Sample ID	Client Sample ID	Preparation Date
25C0261-07	SB25_5-7	03/13/25
25C0261-08	SB26_0-2	03/13/25
25C0261-09	SB26_5-7	03/13/25
25C0261-10	SB27_0-2	03/13/25
25C0261-11	SB27_5-7	03/13/25
25C0261-12	SB28_0-2	03/13/25
25C0261-13	SB28_5-7	03/13/25
25C0261-14	SODUP05_030525	03/13/25
BC50970-BLK1	Blank	03/13/25

BC50970-BS1	LCS	03/13/25
BC50970-MS1	Matrix Spike	03/13/25
BC50970-MSD1	Matrix Spike Dup	03/13/25

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50381 - EPA 5030B											
Blank (BC50381-BLK1) Blank									Prepared & Analyzed: 03/06/2025		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50381 - EPA 5030B											
Blank (BC50381-BLK1) Blank								Prepared & Analyzed: 03/06/2025			
n-Butylbenzene	ND	0.500	ug/L								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.24*		*"*	*10.0*		*92.4*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.31*		*"*	*10.0*		*93.1*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.16*		*"*	*10.0*		*91.6*	*79-122*				
LCS (BC50381-BS1) LCS								Prepared & Analyzed: 03/06/2025			
1,1,1,2-Tetrachloroethane	10.1		ug/L	10.0		101	82-126				
1,1,1-Trichloroethane	9.76		"	10.0		97.6	78-136				
1,1,2,2-Tetrachloroethane	10.1		"	10.0		101	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.2		"	10.0		122	54-165				
1,1,2-Trichloroethane	9.48		"	10.0		94.8	82-123				
1,1-Dichloroethane	9.79		"	10.0		97.9	82-129				
1,1-Dichloroethylene	10.2		"	10.0		102	68-138				
1,2,3-Trichlorobenzene	12.3		"	10.0		123	76-136				
1,2,3-Trichloropropane	9.02		"	10.0		90.2	77-128				
1,2,4-Trichlorobenzene	11.9		"	10.0		119	76-137				
1,2,4-Trimethylbenzene	9.93		"	10.0		99.3	82-132				
1,2-Dibromo-3-chloropropane	9.40		"	10.0		94.0	45-147				
1,2-Dibromoethane	9.81		"	10.0		98.1	83-124				
1,2-Dichlorobenzene	9.75		"	10.0		97.5	79-123				
1,2-Dichloroethane	9.37		"	10.0		93.7	73-132				
1,2-Dichloropropane	8.84		"	10.0		88.4	78-126				
1,3,5-Trimethylbenzene	9.76		"	10.0		97.6	80-131				
1,3-Dichlorobenzene	9.89		"	10.0		98.9	86-122				
1,4-Dichlorobenzene	9.92		"	10.0		99.2	85-124				
1,4-Dioxane	195		"	210		93.1	10-349				
2-Butanone	10.9		"	10.0		109	49-152				
2-Hexanone	8.38		"	10.0		83.8	51-146				
4-Methyl-2-pentanone	8.46		"	10.0		84.6	57-145				
Acetone	7.40		"	10.0		74.0	14-150				
Acrolein	20.4		"	10.0		204	10-153	High Bias			
Acrylonitrile	10.2		"	10.0		102	51-150				
Benzene	10.9		"	10.0		109	85-126				
Bromochloromethane	9.48		"	10.0		94.8	77-128				
Bromodichloromethane	9.17		"	10.0		91.7	79-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50381 - EPA 5030B											
LCS (BC50381-BS1) LCS							Prepared & Analyzed: 03/06/2025				
Bromoform	9.98		ug/L	10.0		99.8	78-133				
Bromomethane	5.53		"	10.0		55.3	43-168				
Carbon disulfide	12.4		"	10.0		124	68-146				
Carbon tetrachloride	10.5		"	10.0		105	77-141				
Chlorobenzene	9.79		"	10.0		97.9	88-120				
Chloroethane	8.94		"	10.0		89.4	65-136				
Chloroform	9.92		"	10.0		99.2	82-128				
Chloromethane	7.70		"	10.0		77.0	43-155				
cis-1,2-Dichloroethylene	10.1		"	10.0		101	83-129				
cis-1,3-Dichloropropylene	9.57		"	10.0		95.7	80-131				
Cyclohexane	10.7		"	10.0		107	63-149				
Dibromochloromethane	10.4		"	10.0		104	80-130				
Dibromomethane	8.97		"	10.0		89.7	72-134				
Dichlorodifluoromethane	12.4		"	10.0		124	44-144				
Ethyl Benzene	9.77		"	10.0		97.7	80-131				
Hexachlorobutadiene	12.5		"	10.0		125	67-146				
Isopropylbenzene	9.86		"	10.0		98.6	76-140				
Methyl acetate	11.8		"	10.0		118	51-139				
Methyl tert-butyl ether (MTBE)	10.3		"	10.0		103	76-135				
Methylcyclohexane	10.1		"	10.0		101	72-143				
Methylene chloride	9.44		"	10.0		94.4	55-137				
n-Butylbenzene	9.72		"	10.0		97.2	79-132				
n-Propylbenzene	9.63		"	10.0		96.3	78-133				
o-Xylene	9.50		"	10.0		95.0	78-130				
p- & m- Xylenes	17.0		"	20.0		84.8	77-133				
p-Isopropyltoluene	10.4		"	10.0		104	81-136				
sec-Butylbenzene	10.1		"	10.0		101	79-137				
Styrene	10.5		"	10.0		105	67-132				
tert-Butyl alcohol (TBA)	55.0		"	50.0		110	25-162				
tert-Butylbenzene	9.91		"	10.0		99.1	77-138				
Tetrachloroethylene	5.51		"	10.0		55.1	82-131	Low Bias			
Toluene	9.55		"	10.0		95.5	80-127				
trans-1,2-Dichloroethylene	10.1		"	10.0		101	80-132				
trans-1,3-Dichloropropylene	9.48		"	10.0		94.8	78-131				
Trichloroethylene	8.77		"	10.0		87.7	82-128				
Trichlorofluoromethane	8.64		"	10.0		86.4	67-139				
Vinyl Chloride	8.92		"	10.0		89.2	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.02*		*"*	*10.0*		*90.2*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.29*		*"*	*10.0*		*92.9*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.28*		*"*	*10.0*		*92.8*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50466 - EPA 5030B											
Blank (BC50466-BLK1) Blank								Prepared & Analyzed: 03/06/2025			
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50466 - EPA 5030B											
Blank (BC50466-BLK1) Blank							Prepared & Analyzed: 03/06/2025				
n-Propylbenzene	ND	0.500	ug/L								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: SURR: Toluene-d8	*9.85*		*"*	*10.0*		*98.5*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.0*		*"*	*10.0*		*100*	*79-122*				
LCS (BC50466-BS1) LCS							Prepared & Analyzed: 03/06/2025				
1,1,1,2-Tetrachloroethane	9.38		ug/L	10.0		93.8	82-126				
1,1,1-Trichloroethane	8.99		"	10.0		89.9	78-130				
1,1,2,2-Tetrachloroethane	10.0		"	10.0		100	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.5		"	10.0		105	70-130				
1,1,2-Trichloroethane	9.08		"	10.0		90.8	82-123				
1,1-Dichloroethane	8.86		"	10.0		88.6	82-129				
1,1-Dichloroethylene	9.85		"	10.0		98.5	70-130				
1,2,3-Trichlorobenzene	9.35		"	10.0		93.5	76-130				
1,2,3-Trichloropropane	8.99		"	10.0		89.9	77-128				
1,2,4-Trichlorobenzene	9.48		"	10.0		94.8	76-130				
1,2,4-Trimethylbenzene	10.1		"	10.0		101	82-132				
1,2-Dibromo-3-chloropropane	8.54		"	10.0		85.4	45-147				
1,2-Dibromoethane	9.28		"	10.0		92.8	83-124				
1,2-Dichlorobenzene	9.21		"	10.0		92.1	79-123				
1,2-Dichloroethane	9.21		"	10.0		92.1	73-130				
1,2-Dichloropropane	9.26		"	10.0		92.6	78-126				
1,3,5-Trimethylbenzene	9.95		"	10.0		99.5	80-131				
1,3-Dichlorobenzene	9.33		"	10.0		93.3	86-122				
1,4-Dichlorobenzene	9.29		"	10.0		92.9	85-124				
1,4-Dioxane	163		"	210		77.7	40-160				
2-Butanone	8.33		"	10.0		83.3	49-152				
2-Hexanone	8.79		"	10.0		87.9	51-146				
4-Methyl-2-pentanone	9.13		"	10.0		91.3	57-145				
Acetone	7.42		"	10.0		74.2	40-150				
Acrolein	18.0		"	10.0		180	10-153	High Bias			
Acrylonitrile	8.82		"	10.0		88.2	51-150				
Benzene	9.39		"	10.0		93.9	85-126				
Bromochloromethane	8.96		"	10.0		89.6	77-128				
Bromodichloromethane	9.39		"	10.0		93.9	79-128				
Bromoform	9.64		"	10.0		96.4	78-130				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50466 - EPA 5030B											
LCS (BC50466-BS1) LCS							Prepared & Analyzed: 03/06/2025				
Bromomethane	12.6		ug/L	10.0		126	43-160				
Carbon disulfide	10.3		"	10.0		103	68-146				
Carbon tetrachloride	9.48		"	10.0		94.8	77-130				
Chlorobenzene	9.34		"	10.0		93.4	88-120				
Chloroethane	9.81		"	10.0		98.1	65-136				
Chloroform	8.95		"	10.0		89.5	82-128				
Chloromethane	9.56		"	10.0		95.6	43-155				
cis-1,2-Dichloroethylene	9.10		"	10.0		91.0	83-129				
cis-1,3-Dichloropropylene	9.27		"	10.0		92.7	80-130				
Cyclohexane	9.89		"	10.0		98.9	70-130				
Dibromochloromethane	9.39		"	10.0		93.9	80-130				
Dibromomethane	9.04		"	10.0		90.4	72-134				
Dichlorodifluoromethane	17.2		"	10.0		172	44-144	High Bias			
Ethyl Benzene	9.93		"	10.0		99.3	80-130				
Hexachlorobutadiene	9.47		"	10.0		94.7	67-146				
Isopropylbenzene	9.90		"	10.0		99.0	76-130				
Methyl acetate	11.0		"	10.0		110	70-130				
Methyl tert-butyl ether (MTBE)	8.73		"	10.0		87.3	76-130				
Methylcyclohexane	9.81		"	10.0		98.1	72-130				
Methylene chloride	8.48		"	10.0		84.8	70-130				
n-Butylbenzene	10.1		"	10.0		101	79-132				
n-Propylbenzene	9.94		"	10.0		99.4	78-133				
o-Xylene	9.57		"	10.0		95.7	78-130				
p- & m- Xylenes	17.8		"	20.0		89.2	77-130				
p-Isopropyltoluene	10.2		"	10.0		102	81-136				
sec-Butylbenzene	10.1		"	10.0		101	79-137				
Styrene	10.0		"	10.0		100	70-130				
tert-Butyl alcohol (TBA)	44.5		"	50.0		89.0	25-162				
tert-Butylbenzene	9.62		"	10.0		96.2	77-138				
Tetrachloroethylene	5.22		"	10.0		52.2	82-130	Low Bias			
Toluene	9.49		"	10.0		94.9	80-127				
trans-1,2-Dichloroethylene	9.21		"	10.0		92.1	80-130				
trans-1,3-Dichloropropylene	9.27		"	10.0		92.7	78-130				
Trichloroethylene	8.84		"	10.0		88.4	82-128				
Trichlorofluoromethane	9.97		"	10.0		99.7	67-139				
Vinyl Chloride	10.4		"	10.0		104	70-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.86*		*"*	*10.0*		*98.6*	*70-130*				
Surrogate: SURR: Toluene-d8	*9.89*		*"*	*10.0*		*98.9*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.1*		*"*	*10.0*		*101*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50577 - EPA 5035A											
Blank (BC50577-BLK1) Blank									Prepared: 03/07/2025 Analyzed: 03/08/2025		
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50577 - EPA 5035A											
Blank (BC50577-BLK1) Blank								Prepared: 03/07/2025 Analyzed: 03/08/2025			
n-Propylbenzene	ND	0.0050	mg/kg wet								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.9*		*ug/L*	*50.0*		*102*	*77-125*				
Surrogate: SURR: Toluene-d8	*53.1*		*"*	*50.0*		*106*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*52.6*		*"*	*50.0*		*105*	*76-130*				
LCS (BC50577-BS1) LCS								Prepared: 03/07/2025 Analyzed: 03/08/2025			
1,1,1,2-Tetrachloroethane	51.9		ug/L	50.0		104	75-129				
1,1,1-Trichloroethane	49.5		"	50.0		99.0	71-137				
1,1,2,2-Tetrachloroethane	56.2		"	50.0		112	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51.2		"	50.0		102	58-146				
1,1,2-Trichloroethane	52.7		"	50.0		105	83-123				
1,1-Dichloroethane	55.0		"	50.0		110	75-130				
1,1-Dichloroethylene	56.9		"	50.0		114	64-137				
1,2,3-Trichlorobenzene	49.0		"	50.0		98.1	81-140				
1,2,3-Trichloropropane	55.0		"	50.0		110	81-126				
1,2,4-Trichlorobenzene	47.5		"	50.0		95.0	80-141				
1,2,4-Trimethylbenzene	54.2		"	50.0		108	84-125				
1,2-Dibromo-3-chloropropane	56.7		"	50.0		113	74-142				
1,2-Dibromoethane	52.3		"	50.0		105	86-123				
1,2-Dichlorobenzene	52.2		"	50.0		104	85-122				
1,2-Dichloroethane	54.7		"	50.0		109	71-133				
1,2-Dichloropropane	57.7		"	50.0		115	81-122				
1,3,5-Trimethylbenzene	54.2		"	50.0		108	82-126				
1,3-Dichlorobenzene	51.3		"	50.0		103	84-124				
1,4-Dichlorobenzene	50.8		"	50.0		102	84-124				
1,4-Dioxane	1010		"	1050		96.0	10-228				
2-Butanone	41.5		"	50.0		83.0	58-147				
2-Hexanone	41.2		"	50.0		82.3	70-139				
4-Methyl-2-pentanone	36.3		"	50.0		72.6	72-132				
Acetone	24.0		"	50.0		48.1	36-155				
Acrolein	41.7		"	50.0		83.4	10-238				
Acrylonitrile	55.3		"	50.0		111	66-141				
Benzene	52.7		"	50.0		105	77-127				
Bromochloromethane	51.0		"	50.0		102	74-129				
Bromodichloromethane	58.9		"	50.0		118	81-124				
Bromoform	55.6		"	50.0		111	80-136				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50577 - EPA 5035A											
LCS (BC50577-BS1) LCS								Prepared: 03/07/2025 Analyzed: 03/08/2025			
Bromomethane	68.2		ug/L	50.0		136	32-177				
Carbon disulfide	53.3		"	50.0		107	10-136				
Carbon tetrachloride	52.0		"	50.0		104	66-143				
Chlorobenzene	52.3		"	50.0		105	86-120				
Chloroethane	56.6		"	50.0		113	51-142				
Chloroform	53.7		"	50.0		107	76-131				
Chloromethane	48.3		"	50.0		96.5	49-132				
cis-1,2-Dichloroethylene	52.5		"	50.0		105	74-132				
cis-1,3-Dichloropropylene	48.2		"	50.0		96.4	81-129				
Cyclohexane	51.6		"	50.0		103	70-130				
Dibromochloromethane	57.8		"	50.0		116	10-200				
Dibromomethane	53.6		"	50.0		107	83-124				
Dichlorodifluoromethane	52.9		"	50.0		106	28-158				
Ethyl Benzene	55.8		"	50.0		112	84-125				
Hexachlorobutadiene	45.0		"	50.0		90.0	83-133				
Isopropylbenzene	55.1		"	50.0		110	81-127				
Methyl acetate	35.9		"	50.0		71.7	41-143				
Methyl tert-butyl ether (MTBE)	41.4		"	50.0		82.7	74-131				
Methylcyclohexane	50.7		"	50.0		101	70-130				
Methylene chloride	50.6		"	50.0		101	57-141				
n-Butylbenzene	55.0		"	50.0		110	80-130				
n-Propylbenzene	55.4		"	50.0		111	74-136				
o-Xylene	53.9		"	50.0		108	83-123				
p- & m- Xylenes	109		"	100		109	82-128				
p-Isopropyltoluene	56.1		"	50.0		112	85-125				
sec-Butylbenzene	53.9		"	50.0		108	83-125				
Styrene	54.5		"	50.0		109	86-126				
tert-Butyl alcohol (TBA)	142		"	250		56.6	70-130	Low Bias			
tert-Butylbenzene	47.5		"	50.0		95.1	80-127				
Tetrachloroethylene	43.9		"	50.0		87.8	80-129				
Toluene	53.9		"	50.0		108	85-121				
trans-1,2-Dichloroethylene	55.3		"	50.0		111	72-132				
trans-1,3-Dichloropropylene	44.8		"	50.0		89.6	78-132				
Trichloroethylene	54.8		"	50.0		110	84-123				
Trichlorofluoromethane	53.0		"	50.0		106	62-140				
Vinyl Chloride	54.7		"	50.0		109	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.1*		*"*	*50.0*		*102*	*77-125*				
Surrogate: SURR: Toluene-d8	*52.2*		*"*	*50.0*		*104*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*51.6*		*"*	*50.0*		*103*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50577 - EPA 5035A											
LCS Dup (BC50577-BSD1) LCS Dup								Prepared: 03/07/2025 Analyzed: 03/08/2025			
1,1,1,2-Tetrachloroethane	53.5		ug/L	50.0		107	75-129		2.94	30	
1,1,1-Trichloroethane	48.6		"	50.0		97.2	71-137		1.81	30	
1,1,2,2-Tetrachloroethane	56.7		"	50.0		113	79-129		0.904	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	54.1		"	50.0		108	58-146		5.51	30	
1,1,2-Trichloroethane	54.4		"	50.0		109	83-123		3.27	30	
1,1-Dichloroethane	53.5		"	50.0		107	75-130		2.75	30	
1,1-Dichloroethylene	57.6		"	50.0		115	64-137		1.27	30	
1,2,3-Trichlorobenzene	48.4		"	50.0		96.7	81-140		1.42	30	
1,2,3-Trichloropropane	56.0		"	50.0		112	81-126		1.82	30	
1,2,4-Trichlorobenzene	46.9		"	50.0		93.8	80-141		1.23	30	
1,2,4-Trimethylbenzene	54.1		"	50.0		108	84-125		0.0924	30	
1,2-Dibromo-3-chloropropane	54.9		"	50.0		110	74-142		3.31	30	
1,2-Dibromoethane	53.3		"	50.0		107	86-123		1.89	30	
1,2-Dichlorobenzene	52.6		"	50.0		105	85-122		0.859	30	
1,2-Dichloroethane	54.5		"	50.0		109	71-133		0.348	30	
1,2-Dichloropropane	58.3		"	50.0		117	81-122		1.07	30	
1,3,5-Trimethylbenzene	53.9		"	50.0		108	82-126		0.574	30	
1,3-Dichlorobenzene	50.2		"	50.0		100	84-124		2.09	30	
1,4-Dichlorobenzene	50.5		"	50.0		101	84-124		0.474	30	
1,4-Dioxane	1040		"	1050		98.8	10-228		2.89	30	
2-Butanone	42.8		"	50.0		85.6	58-147		3.13	30	
2-Hexanone	42.2		"	50.0		84.4	70-139		2.50	30	
4-Methyl-2-pentanone	36.2		"	50.0		72.4	72-132		0.276	30	
Acetone	25.8		"	50.0		51.5	36-155		6.91	30	
Acrolein	41.6		"	50.0		83.2	10-238		0.168	30	
Acrylonitrile	54.6		"	50.0		109	66-141		1.35	30	
Benzene	53.5		"	50.0		107	77-127		1.49	30	
Bromochloromethane	50.5		"	50.0		101	74-129		1.08	30	
Bromodichloromethane	59.2		"	50.0		118	81-124		0.508	30	
Bromoform	55.5		"	50.0		111	80-136		0.198	30	
Bromomethane	68.9		"	50.0		138	32-177		1.01	30	
Carbon disulfide	55.1		"	50.0		110	10-136		3.26	30	
Carbon tetrachloride	50.3		"	50.0		101	66-143		3.36	30	
Chlorobenzene	53.1		"	50.0		106	86-120		1.40	30	
Chloroethane	56.8		"	50.0		114	51-142		0.494	30	
Chloroform	54.2		"	50.0		108	76-131		0.945	30	
Chloromethane	44.3		"	50.0		88.6	49-132		8.53	30	
cis-1,2-Dichloroethylene	52.3		"	50.0		105	74-132		0.324	30	
cis-1,3-Dichloropropylene	48.9		"	50.0		97.7	81-129		1.38	30	
Cyclohexane	54.6		"	50.0		109	70-130		5.71	30	
Dibromochloromethane	57.8		"	50.0		116	10-200		0.104	30	
Dibromomethane	54.2		"	50.0		108	83-124		0.928	30	
Dichlorodifluoromethane	52.3		"	50.0		105	28-158		1.14	30	
Ethyl Benzene	56.0		"	50.0		112	84-125		0.447	30	
Hexachlorobutadiene	46.3		"	50.0		92.5	83-133		2.78	30	
Isopropylbenzene	55.3		"	50.0		111	81-127		0.272	30	
Methyl acetate	35.5		"	50.0		71.0	41-143		1.07	30	
Methyl tert-butyl ether (MTBE)	42.6		"	50.0		85.2	74-131		2.95	30	
Methylcyclohexane	51.9		"	50.0		104	70-130		2.26	30	
Methylene chloride	51.3		"	50.0		103	57-141		1.51	30	
n-Butylbenzene	54.3		"	50.0		109	80-130		1.35	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50577 - EPA 5035A											
LCS Dup (BC50577-BSD1) LCS Dup								Prepared: 03/07/2025 Analyzed: 03/08/2025			
n-Propylbenzene	55.6		ug/L	50.0		111	74-136		0.378	30	
o-Xylene	54.8		"	50.0		110	83-123		1.51	30	
p- & m- Xylenes	109		"	100		109	82-128		0.110	30	
p-Isopropyltoluene	55.8		"	50.0		112	85-125		0.482	30	
sec-Butylbenzene	54.9		"	50.0		110	83-125		1.86	30	
Styrene	54.9		"	50.0		110	86-126		0.786	30	
tert-Butyl alcohol (TBA)	150		"	250		60.2	70-130	Low Bias	6.08	30	
tert-Butylbenzene	47.7		"	50.0		95.4	80-127		0.336	30	
Tetrachloroethylene	43.9		"	50.0		87.7	80-129		0.0456	30	
Toluene	55.3		"	50.0		111	85-121		2.51	30	
trans-1,2-Dichloroethylene	55.7		"	50.0		111	72-132		0.739	30	
trans-1,3-Dichloropropylene	45.1		"	50.0		90.3	78-132		0.734	30	
Trichloroethylene	54.9		"	50.0		110	84-123		0.255	30	
Trichlorofluoromethane	50.7		"	50.0		101	62-140		4.44	30	
Vinyl Chloride	55.8		"	50.0		112	52-130		1.97	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.3*		*"*	*50.0*		*101*	*77-125*				
Surrogate: SURR: Toluene-d8	*52.4*		*"*	*50.0*		*105*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*50.6*		*"*	*50.0*		*101*	*76-130*				
Matrix Spike (BC50577-MS1) Matrix Spike *Source sample: 25C0261-11 (SB27_5-7)								Prepared: 03/07/2025 Analyzed: 03/08/2025			
1,1,1,2-Tetrachloroethane	51.3		ug/L	50.0	0.00	103	15-161				
1,1,1-Trichloroethane	62.3		"	50.0	0.00	125	42-145				
1,1,2,2-Tetrachloroethane	51.8		"	50.0	0.00	104	16-167				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	66.0		"	50.0	0.00	132	11-160				
1,1,2-Trichloroethane	53.8		"	50.0	0.00	108	44-145				
1,1-Dichloroethane	64.1		"	50.0	0.00	128	46-142				
1,1-Dichloroethylene	74.4		"	50.0	0.00	149	30-153				
1,2,3-Trichlorobenzene	21.7		"	50.0	0.00	43.5	10-157				
1,2,3-Trichloropropane	52.2		"	50.0	0.00	104	38-155				
1,2,4-Trichlorobenzene	20.8		"	50.0	0.00	41.6	10-151				
1,2,4-Trimethylbenzene	45.6		"	50.0	0.00	91.3	10-170				
1,2-Dibromo-3-chloropropane	43.8		"	50.0	0.00	87.5	36-138				
1,2-Dibromoethane	46.8		"	50.0	0.00	93.6	40-142				
1,2-Dichlorobenzene	35.8		"	50.0	0.00	71.6	10-147				
1,2-Dichloroethane	58.4		"	50.0	0.00	117	48-133				
1,2-Dichloropropane	61.0		"	50.0	0.00	122	47-141				
1,3,5-Trimethylbenzene	47.5		"	50.0	0.00	95.1	10-150				
1,3-Dichlorobenzene	34.0		"	50.0	0.00	67.9	10-144				
1,4-Dichlorobenzene	32.3		"	50.0	0.00	64.5	10-160				
1,4-Dioxane	1030		"	1050	0.00	97.7	10-191				
2-Butanone	49.4		"	50.0	14.4	70.0	10-189				
2-Hexanone	37.5		"	50.0	0.00	75.0	10-181				
4-Methyl-2-pentanone	36.4		"	50.0	0.00	72.9	10-166				
Acetone	57.9		"	50.0	42.9	30.0	10-196				
Acrolein	5.05		"	50.0	0.00	10.1	10-192				
Acrylonitrile	51.5		"	50.0	0.00	103	13-161				
Benzene	59.6		"	50.0	0.00	119	43-139				
Bromochloromethane	53.1		"	50.0	0.00	106	38-145				
Bromodichloromethane	57.3		"	50.0	0.00	115	38-147				
Bromoform	44.5		"	50.0	0.00	89.0	29-156				
Bromomethane	71.0		"	50.0	0.00	142	10-166				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50577 - EPA 5035A											
Matrix Spike (BC50577-MS1) Matrix Spike *Source sample: 25C0261-11 (SB27_5-7)								Prepared: 03/07/2025 Analyzed: 03/08/2025			
Carbon disulfide	56.3		ug/L	50.0	0.00	113	10-131				
Carbon tetrachloride	59.9		"	50.0	0.00	120	35-145				
Chlorobenzene	47.4		"	50.0	0.00	94.8	21-154				
Chloroethane	68.8		"	50.0	0.00	138	15-160				
Chloroform	62.4		"	50.0	0.00	125	47-142				
Chloromethane	54.4		"	50.0	0.00	109	10-159				
cis-1,2-Dichloroethylene	55.9		"	50.0	0.00	112	42-144				
cis-1,3-Dichloropropylene	37.8		"	50.0	0.00	75.5	18-159				
Cyclohexane	65.8		"	50.0	0.00	132	70-130	High Bias			
Dibromochloromethane	50.4		"	50.0	0.00	101	10-179				
Dibromomethane	50.9		"	50.0	0.00	102	47-143				
Dichlorodifluoromethane	72.1		"	50.0	0.00	144	10-145				
Ethyl Benzene	57.0		"	50.0	0.00	114	11-158				
Hexachlorobutadiene	28.6		"	50.0	0.00	57.1	10-158				
Isopropylbenzene	56.2		"	50.0	0.00	112	10-162				
Methyl acetate	49.1		"	50.0	0.00	98.3	10-149				
Methyl tert-butyl ether (MTBE)	45.1		"	50.0	0.00	90.3	42-152				
Methylcyclohexane	55.4		"	50.0	0.00	111	70-130				
Methylene chloride	55.7		"	50.0	0.00	111	28-151				
n-Butylbenzene	41.2		"	50.0	0.00	82.4	10-162				
n-Propylbenzene	51.2		"	50.0	0.00	102	10-155				
o-Xylene	53.7		"	50.0	0.00	107	10-158				
p- & m- Xylenes	108		"	100	0.00	108	10-156				
p-Isopropyltoluene	47.6		"	50.0	0.00	95.1	10-147				
sec-Butylbenzene	50.0		"	50.0	0.00	100	10-157				
Styrene	42.8		"	50.0	0.00	85.6	13-171				
tert-Butyl alcohol (TBA)	147		"	250	0.00	58.8	34-179				
tert-Butylbenzene	46.6		"	50.0	0.00	93.3	10-160				
Tetrachloroethylene	44.4		"	50.0	0.00	88.9	30-167				
Toluene	57.0		"	50.0	0.00	114	21-160				
trans-1,2-Dichloroethylene	57.5		"	50.0	0.00	115	29-153				
trans-1,3-Dichloropropylene	31.8		"	50.0	0.00	63.5	18-155				
Trichloroethylene	58.1		"	50.0	0.00	116	24-169				
Trichlorofluoromethane	71.5		"	50.0	0.00	143	35-142	High Bias			
Vinyl Chloride	69.7		"	50.0	0.00	139	12-160				
Surrogate: SURR: 1,2-Dichloroethane-d4	*54.6*		*"*	*50.0*		*109*	*77-125*				
Surrogate: SURR: Toluene-d8	*51.6*		*"*	*50.0*		*103*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*52.5*		*"*	*50.0*		*105*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50577 - EPA 5035A											
Matrix Spike Dup (BC50577-M Matrix Spike Dup *Source sample: 25C0261-11 (SB27_5-7)									Prepared: 03/07/2025 Analyzed: 03/08/2025		
1,1,1,2-Tetrachloroethane	40.1		ug/L	50.0	0.00	80.3	15-161		24.5	33	
1,1,1-Trichloroethane	53.6		"	50.0	0.00	107	42-145		15.0	30	
1,1,2,2-Tetrachloroethane	39.7		"	50.0	0.00	79.4	16-167		26.5	56	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	59.0		"	50.0	0.00	118	11-160		11.1	31	
1,1,2-Trichloroethane	41.6		"	50.0	0.00	83.2	44-145		25.6	40	
1,1-Dichloroethane	53.9		"	50.0	0.00	108	46-142		17.4	36	
1,1-Dichloroethylene	60.8		"	50.0	0.00	122	30-153		20.0	31	
1,2,3-Trichlorobenzene	14.9		"	50.0	0.00	29.9	10-157		37.0	47	
1,2,3-Trichloropropane	40.4		"	50.0	0.00	80.8	38-155		25.5	48	
1,2,4-Trichlorobenzene	14.4		"	50.0	0.00	28.8	10-151		36.4	52	
1,2,4-Trimethylbenzene	36.2		"	50.0	0.00	72.4	10-170		23.0	242	
1,2-Dibromo-3-chloropropane	32.4		"	50.0	0.00	64.8	36-138		29.9	54	
1,2-Dibromoethane	34.2		"	50.0	0.00	68.4	40-142		31.1	39	
1,2-Dichlorobenzene	25.1		"	50.0	0.00	50.2	10-147		35.1	52	
1,2-Dichloroethane	44.5		"	50.0	0.00	89.0	48-133		27.1	32	
1,2-Dichloropropane	49.6		"	50.0	0.00	99.2	47-141		20.6	37	
1,3,5-Trimethylbenzene	38.4		"	50.0	0.00	76.8	10-150		21.2	62	
1,3-Dichlorobenzene	24.8		"	50.0	0.00	49.6	10-144		31.2	51	
1,4-Dichlorobenzene	23.3		"	50.0	0.00	46.6	10-160		32.2	52	
1,4-Dioxane	974		"	1050	0.00	92.7	10-191		5.24	196	
2-Butanone	50.8		"	50.0	13.0	75.6	10-189		2.88	67	
2-Hexanone	30.0		"	50.0	0.00	60.0	10-181		22.3	60	
4-Methyl-2-pentanone	29.6		"	50.0	0.00	59.2	10-166		20.7	47	
Acetone	62.0		"	50.0	38.9	46.3	10-196		6.79	150	
Acrolein	3.19		"	50.0	0.00	6.38	10-192	Low Bias	45.1	128	
Acrylonitrile	41.0		"	50.0	0.00	82.0	13-161		22.6	48	
Benzene	48.8		"	50.0	0.00	97.6	43-139		19.8	64	
Bromochloromethane	41.0		"	50.0	0.00	81.9	38-145		25.8	30	
Bromodichloromethane	46.1		"	50.0	0.00	92.2	38-147		21.7	37	
Bromoform	31.7		"	50.0	0.00	63.4	29-156		33.5	51	
Bromomethane	54.8		"	50.0	0.00	110	10-166		25.9	42	
Carbon disulfide	45.6		"	50.0	0.00	91.1	10-131		21.1	36	
Carbon tetrachloride	52.3		"	50.0	0.00	105	35-145		13.7	31	
Chlorobenzene	35.3		"	50.0	0.00	70.6	21-154		29.3	32	
Chloroethane	56.5		"	50.0	0.00	113	15-160		19.6	40	
Chloroform	50.4		"	50.0	0.00	101	47-142		21.4	29	
Chloromethane	46.8		"	50.0	0.00	93.5	10-159		15.1	31	
cis-1,2-Dichloroethylene	44.4		"	50.0	0.00	88.9	42-144		22.8	30	
cis-1,3-Dichloropropylene	27.9		"	50.0	0.00	55.8	18-159		30.1	39	
Cyclohexane	57.4		"	50.0	0.00	115	70-130		13.7	30	
Dibromochloromethane	37.9		"	50.0	0.00	75.8	10-179		28.4	41	
Dibromomethane	39.0		"	50.0	0.00	77.9	47-143		26.5	41	
Dichlorodifluoromethane	62.3		"	50.0	0.00	125	10-145		14.7	34	
Ethyl Benzene	45.6		"	50.0	0.00	91.1	11-158		22.2	42	
Hexachlorobutadiene	23.0		"	50.0	0.00	46.1	10-158		21.4	45	
Isopropylbenzene	46.1		"	50.0	0.00	92.3	10-162		19.6	57	
Methyl acetate	43.0		"	50.0	0.00	86.0	10-149		13.4	64	
Methyl tert-butyl ether (MTBE)	37.8		"	50.0	0.00	75.7	42-152		17.6	47	
Methylcyclohexane	50.0		"	50.0	0.00	100	70-130		10.3	30	
Methylene chloride	44.8		"	50.0	0.00	89.7	28-151		21.6	49	
n-Butylbenzene	34.0		"	50.0	0.00	67.9	10-162		19.3	96	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50577 - EPA 5035A											
Matrix Spike Dup (BC50577-M Matrix Spike Dup			*Source sample: 25C0261-11 (SB27_5-7)						Prepared: 03/07/2025 Analyzed: 03/08/2025		
n-Propylbenzene	42.2		ug/L	50.0	0.00	84.3	10-155		19.5	56	
o-Xylene	41.7		"	50.0	0.00	83.3	10-158		25.2	51	
p- & m- Xylenes	84.9		"	100	0.00	84.9	10-156		24.0	47	
p-Isopropyltoluene	39.1		"	50.0	0.00	78.2	10-147		19.6	60	
sec-Butylbenzene	41.5		"	50.0	0.00	83.1	10-157		18.5	56	
Styrene	26.2		"	50.0	0.00	52.4	13-171		48.1	39	Non-dir.
tert-Butyl alcohol (TBA)	138		"	250	0.00	55.2	34-179		6.27	35	
tert-Butylbenzene	38.6		"	50.0	0.00	77.2	10-160		18.8	79	
Tetrachloroethylene	37.1		"	50.0	0.00	74.2	30-167		18.0	33	
Toluene	46.2		"	50.0	0.00	92.4	21-160		21.0	50	
trans-1,2-Dichloroethylene	46.8		"	50.0	0.00	93.5	29-153		20.5	30	
trans-1,3-Dichloropropylene	22.1		"	50.0	0.00	44.2	18-155		35.8	30	Non-dir.
Trichloroethylene	47.4		"	50.0	0.00	94.7	24-169		20.3	30	
Trichlorofluoromethane	62.5		"	50.0	0.00	125	35-142		13.5	30	
Vinyl Chloride	58.3		"	50.0	0.00	117	12-160		17.7	35	
Surrogate: SURR: 1,2-Dichloroethane-d4	*55.0*		*"*	*50.0*		*110*	*77-125*				
Surrogate: SURR: Toluene-d8	*52.1*		*"*	*50.0*		*104*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*52.8*		*"*	*50.0*		*106*	*76-130*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50750 - EPA 3510C											
Blank (BC50750-BLK1) Blank									Prepared & Analyzed: 03/11/2025		
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Diphenylamine	ND	5.00	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Isophorone	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Phenol	ND	5.00	"								
Pyridine	ND	5.00	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50750 - EPA 3510C											
Blank (BC50750-BLK1) Blank								Prepared & Analyzed: 03/11/2025			
Surrogate: SURR: 2-Fluorophenol	*17.0*		*ug/L*	*50.0*		*34.1*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*9.63*		*"*	*50.0*		*19.3*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*15.0*		*"*	*25.0*		*60.0*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*15.8*		*"*	*25.0*		*63.1*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*35.1*		*"*	*50.0*		*70.1*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*22.5*		*"*	*25.0*		*90.0*	*30.7-106*				
LCS (BC50750-BS1) LCS								Prepared & Analyzed: 03/11/2025			
1,1-Biphenyl	15.8	5.00	ug/L	25.0		63.3	33-95				
1,2,4,5-Tetrachlorobenzene	13.1	5.00	"	25.0		52.4	26-120				
1,2-Diphenylhydrazine (as Azobenzene)	14.5	5.00	"	25.0		58.2	16-141				
2,3,4,6-Tetrachlorophenol	17.8	5.00	"	25.0		71.1	30-130				
2,4,5-Trichlorophenol	14.5	5.00	"	25.0		58.0	32-114				
2,4,6-Trichlorophenol	16.2	5.00	"	25.0		64.8	35-118				
2,4-Dichlorophenol	14.6	5.00	"	25.0		58.2	25-116				
2,4-Dimethylphenol	14.9	5.00	"	25.0		59.7	15-116				
2,4-Dinitrophenol	20.8	5.00	"	25.0		83.4	10-170				
2,4-Dinitrotoluene	18.2	5.00	"	25.0		73.0	41-128				
2,6-Dinitrotoluene	17.5	5.00	"	25.0		70.1	45-116				
2-Chloronaphthalene	15.4	5.00	"	25.0		61.5	33-112				
2-Chlorophenol	12.5	5.00	"	25.0		50.1	15-120				
2-Methylnaphthalene	13.8	5.00	"	25.0		55.3	24-118				
2-Methylphenol	11.4	5.00	"	25.0		45.8	10-110				
2-Nitroaniline	17.2	5.00	"	25.0		68.8	34-129				
2-Nitrophenol	13.8	5.00	"	25.0		55.4	28-118				
3- & 4-Methylphenols	9.52	5.00	"	25.0		38.1	10-107				
3,3-Dichlorobenzidine	13.5	5.00	"	25.0		54.0	15-187				
3-Nitroaniline	12.8	5.00	"	25.0		51.2	24-134				
4,6-Dinitro-2-methylphenol	21.2	5.00	"	25.0		84.9	10-153				
4-Bromophenyl phenyl ether	16.6	5.00	"	25.0		66.2	34-120				
4-Chloro-3-methylphenol	15.4	5.00	"	25.0		61.5	20-120				
4-Chloroaniline	10.7	5.00	"	25.0		42.8	10-147				
4-Chlorophenyl phenyl ether	16.8	5.00	"	25.0		67.1	27-121				
4-Nitroaniline	15.4	5.00	"	25.0		61.5	13-134				
4-Nitrophenol	ND	5.00	"	25.0			10-131	Low Bias			
Acetophenone	14.0	5.00	"	25.0		56.2	25-110				
Aniline	6.60	5.00	"	25.0		26.4	10-117				
Benzaldehyde	14.4	5.00	"	25.0		57.6	29-117				
Benzoic acid	3.55	5.00	"	25.0		14.2	30-130	Low Bias			
Benzyl alcohol	10.6	5.00	"	25.0		42.4	10-117				
Benzyl butyl phthalate	18.6	5.00	"	25.0		74.3	29-133				
Bis(2-chloroethoxy)methane	14.4	5.00	"	25.0		57.7	10-154				
Bis(2-chloroethyl)ether	13.1	5.00	"	25.0		52.4	17-125				
Bis(2-chloroisopropyl)ether	12.8	5.00	"	25.0		51.2	10-139				
Caprolactam	3.32	5.00	"	25.0		13.3	10-137				
Carbazole	16.6	5.00	"	25.0		66.5	42-126				
Dibenzofuran	16.4	5.00	"	25.0		65.8	36-113				
Diethyl phthalate	18.4	5.00	"	25.0		73.6	38-115				
Dimethyl phthalate	18.2	5.00	"	25.0		73.0	38-129				
Di-n-butyl phthalate	20.6	5.00	"	25.0		82.5	31-120				
Di-n-octyl phthalate	19.5	5.00	"	25.0		78.0	21-149				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50750 - EPA 3510C											
LCS (BC50750-BS1) LCS							Prepared & Analyzed: 03/11/2025				
Diphenylamine	18.9	5.00	ug/L	25.0		75.6	40-140				
Hexachlorocyclopentadiene	12.7	10.0	"	25.0		50.7	10-130				
Isophorone	16.0	5.00	"	25.0		63.9	25-127				
N-nitroso-di-n-propylamine	14.8	5.00	"	25.0		59.0	26-122				
N-Nitrosodiphenylamine	18.3	5.00	"	25.0		73.3	23-149				
Phenol	ND	5.00	"	25.0			10-110	Low Bias			
Pyridine	4.93	5.00	"	35.0		14.1	10-90				
Surrogate: SURR: 2-Fluorophenol	*16.3*		*"*	*50.0*		*32.6*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*9.08*		*"*	*50.0*		*18.2*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*14.2*		*"*	*25.0*		*56.9*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*15.0*		*"*	*25.0*		*60.0*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*36.6*		*"*	*50.0*		*73.2*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*18.4*		*"*	*25.0*		*73.7*	*30.7-106*				
Batch BC50959 - EPA 3546- SVOA RCP											
Blank (BC50959-BLK1) Blank							Prepared & Analyzed: 03/13/2025				
1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50959 - EPA 3546- SVOA RCP											
Blank (BC50959-BLK1) Blank								Prepared & Analyzed: 03/13/2025			
Benzidine	ND	0.166	mg/kg wet								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								
Caprolactam	ND	0.0830	"								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								
Dibenzofuran	ND	0.0416	"								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Pyridine	ND	0.166	"								
Surrogate: SURR: 2-Fluorophenol	*1.35*		*"*	*1.66*		*81.1*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.29*		*"*	*1.66*		*77.9*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.618*		*"*	*0.831*		*74.4*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.591*		*"*	*0.831*		*71.2*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.41*		*"*	*1.66*		*85.2*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.711*		*"*	*0.831*		*85.6*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50959 - EPA 3546- SVOA RCP											
LCS (BC50959-BS1) LCS							Prepared & Analyzed: 03/13/2025				
1,1-Biphenyl	0.398	0.0416	mg/kg wet	0.831		48.0	70-111	Low Bias			
1,2,4,5-Tetrachlorobenzene	0.424	0.0830	"	0.831		51.0	70-130	Low Bias			
1,2-Diphenylhydrazine (as Azobenzene)	0.385	0.0416	"	0.831		46.4	17-137				
2,3,4,6-Tetrachlorophenol	0.493	0.0830	"	0.831		59.4	70-130	Low Bias			
2,4,5-Trichlorophenol	0.405	0.0416	"	0.831		48.7	70-118	Low Bias			
2,4,6-Trichlorophenol	0.418	0.0416	"	0.831		50.4	70-120	Low Bias			
2,4-Dichlorophenol	0.446	0.0416	"	0.831		53.7	70-127	Low Bias			
2,4-Dimethylphenol	0.446	0.0416	"	0.831		53.6	70-130	Low Bias			
2,4-Dinitrophenol	0.194	0.0830	"	0.831		23.3	20-160				
2,4-Dinitrotoluene	0.417	0.0416	"	0.831		50.2	70-130	Low Bias			
2,6-Dinitrotoluene	0.399	0.0416	"	0.831		48.0	70-128	Low Bias			
2-Chloronaphthalene	0.386	0.0416	"	0.831		46.4	70-117	Low Bias			
2-Chlorophenol	0.415	0.0416	"	0.831		50.0	70-113	Low Bias			
2-Methylnaphthalene	0.394	0.0416	"	0.831		47.4	70-130	Low Bias			
2-Methylphenol	0.431	0.0416	"	0.831		51.9	70-130	Low Bias			
2-Nitroaniline	0.387	0.0830	"	0.831		46.6	70-130	Low Bias			
2-Nitrophenol	0.415	0.0416	"	0.831		49.9	70-129	Low Bias			
3- & 4-Methylphenols	0.380	0.0416	"	0.831		45.8	29-103				
3,3-Dichlorobenzidine	0.364	0.0416	"	0.831		43.9	70-130	Low Bias			
3-Nitroaniline	0.342	0.0830	"	0.831		41.2	70-130	Low Bias			
4,6-Dinitro-2-methylphenol	0.225	0.0830	"	0.831		27.1	70-130	Low Bias			
4-Bromophenyl phenyl ether	0.394	0.0416	"	0.831		47.5	70-120	Low Bias			
4-Chloro-3-methylphenol	0.463	0.0416	"	0.831		55.8	70-129	Low Bias			
4-Chloroaniline	0.254	0.0416	"	0.831		30.6	70-130	Low Bias			
4-Chlorophenyl phenyl ether	0.414	0.0416	"	0.831		49.8	70-124	Low Bias			
4-Nitroaniline	0.390	0.0830	"	0.831		46.9	70-128	Low Bias			
4-Nitrophenol	0.101	0.0830	"	0.831		12.2	20-141	Low Bias			
Acenaphthene	0.381	0.0416	"	0.831		45.8	70-121	Low Bias			
Acenaphthylene	0.390	0.0416	"	0.831		47.0	70-115	Low Bias			
Acetophenone	0.461	0.0416	"	0.831		55.6	70-112	Low Bias			
Aniline	0.485	0.166	"	0.831		58.4	10-119				
Anthracene	0.401	0.0416	"	0.831		48.3	70-118	Low Bias			
Atrazine	0.449	0.0416	"	0.831		54.0	70-112	Low Bias			
Benzaldehyde	0.400	0.0416	"	0.831		48.2	21-100				
Benzo(a)anthracene	0.412	0.0416	"	0.831		49.6	70-122	Low Bias			
Benzo(a)pyrene	0.380	0.0416	"	0.831		45.7	70-130	Low Bias			
Benzo(b)fluoranthene	0.389	0.0416	"	0.831		46.8	70-130	Low Bias			
Benzo(g,h,i)perylene	0.394	0.0416	"	0.831		47.4	70-130	Low Bias			
Benzo(k)fluoranthene	0.388	0.0416	"	0.831		46.7	70-128	Low Bias			
Benzoic acid	0.463	0.0416	"	0.831		55.7	10-140				
Benzyl alcohol	0.409	0.0416	"	0.831		49.3	30-115				
Benzyl butyl phthalate	0.456	0.0416	"	0.831		54.9	70-126	Low Bias			
Bis(2-chloroethoxy)methane	0.421	0.0416	"	0.831		50.7	70-130	Low Bias			
Bis(2-chloroethyl)ether	0.711	0.0416	"	0.831		85.6	70-125				
Bis(2-chloroisopropyl)ether	0.398	0.0416	"	0.831		48.0	70-130	Low Bias			
Bis(2-ethylhexyl)phthalate	0.449	0.0416	"	0.831		54.0	70-130	Low Bias			
Caprolactam	0.562	0.0830	"	0.831		67.7	20-127				
Carbazole	0.386	0.0416	"	0.831		46.5	70-123	Low Bias			
Chrysene	0.408	0.0416	"	0.831		49.2	70-123	Low Bias			
Dibenzo(a,h)anthracene	0.393	0.0416	"	0.831		47.3	70-130	Low Bias			
Dibenzofuran	0.405	0.0416	"	0.831		48.8	70-121	Low Bias			

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50959 - EPA 3546- SVOA RCP											
LCS (BC50959-BS1) LCS							Prepared & Analyzed: 03/13/2025				
Diethyl phthalate	0.424	0.0416	mg/kg wet	0.831		51.0	70-116	Low Bias			
Dimethyl phthalate	0.403	0.0416	"	0.831		48.5	70-124	Low Bias			
Di-n-butyl phthalate	0.428	0.0416	"	0.831		51.5	70-116	Low Bias			
Di-n-octyl phthalate	0.424	0.0416	"	0.831		51.1	70-130	Low Bias			
Diphenylamine	0.421	0.0830	"	0.831		50.7	40-140				
Fluoranthene	0.384	0.0416	"	0.831		46.2	70-122	Low Bias			
Fluorene	0.413	0.0416	"	0.831		49.7	70-123	Low Bias			
Hexachlorobenzene	0.401	0.0416	"	0.831		48.2	70-124	Low Bias			
Hexachlorobutadiene	0.445	0.0416	"	0.831		53.6	70-130	Low Bias			
Hexachlorocyclopentadiene	0.192	0.0416	"	0.831		23.1	20-129				
Hexachloroethane	0.407	0.0416	"	0.831		49.0	28-108				
Indeno(1,2,3-cd)pyrene	0.471	0.0416	"	0.831		56.7	70-130	Low Bias			
Isophorone	0.433	0.0416	"	0.831		52.1	70-130	Low Bias			
Naphthalene	0.425	0.0416	"	0.831		51.2	70-124	Low Bias			
Nitrobenzene	0.430	0.0416	"	0.831		51.8	70-130	Low Bias			
N-Nitrosodimethylamine	0.371	0.0416	"	0.831		44.7	11-129				
N-nitroso-di-n-propylamine	0.399	0.0416	"	0.831		48.1	70-119	Low Bias			
N-Nitrosodiphenylamine	0.421	0.0416	"	0.831		50.7	70-130	Low Bias			
Pentachlorophenol	0.280	0.0416	"	0.831		33.8	20-139				
Phenanthrene	0.407	0.0416	"	0.831		49.0	70-123	Low Bias			
Phenol	0.413	0.0416	"	0.831		49.8	23-115				
Pyrene	0.432	0.0416	"	0.831		52.0	70-130	Low Bias			
Pyridine	0.303	0.166	"	0.831		36.5	10-91				
Surrogate: SURR: 2-Fluorophenol	*0.872*		*"*	*1.66*		*52.5*	*30-108*				
Surrogate: SURR: Phenol-d6	*0.842*		*"*	*1.66*		*50.7*	*30-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.409*		*"*	*0.831*		*49.3*	*30-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.378*		*"*	*0.831*		*45.5*	*30-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.853*		*"*	*1.66*		*51.4*	*30-110*				
Surrogate: SURR: Terphenyl-d14	*0.431*		*"*	*0.831*		*51.9*	*30-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50959 - EPA 3546- SVOA RCP											
Matrix Spike (BC50959-MS1) Matrix Spike *Source sample: 25C0261-11 (SB27_5-7)								Prepared & Analyzed: 03/13/2025			
1,1-Biphenyl	0.461	0.111	mg/kg dry	1.11	ND	41.4	10-130				
1,2,4,5-Tetrachlorobenzene	0.488	0.222	"	1.11	ND	43.9	10-133				
1,2-Diphenylhydrazine (as Azobenzene)	0.465	0.111	"	1.11	ND	41.8	10-144				
2,3,4,6-Tetrachlorophenol	0.626	0.222	"	1.11	ND	56.3	30-130				
2,4,5-Trichlorophenol	0.471	0.111	"	1.11	ND	42.3	10-127				
2,4,6-Trichlorophenol	0.469	0.111	"	1.11	ND	42.2	10-132				
2,4-Dichlorophenol	0.536	0.111	"	1.11	ND	48.2	10-128				
2,4-Dimethylphenol	0.520	0.111	"	1.11	ND	46.7	10-137				
2,4-Dinitrophenol	ND	0.222	"	1.11	ND		10-171	Low Bias			
2,4-Dinitrotoluene	0.446	0.111	"	1.11	ND	40.1	16-135				
2,6-Dinitrotoluene	0.462	0.111	"	1.11	ND	41.5	18-131				
2-Chloronaphthalene	0.446	0.111	"	1.11	ND	40.1	10-129				
2-Chlorophenol	0.503	0.111	"	1.11	ND	45.3	15-116				
2-Methylnaphthalene	0.466	0.111	"	1.11	ND	41.9	10-147				
2-Methylphenol	0.493	0.111	"	1.11	ND	44.3	10-136				
2-Nitroaniline	0.487	0.222	"	1.11	ND	43.8	10-137				
2-Nitrophenol	0.401	0.111	"	1.11	ND	36.1	10-129				
3- & 4-Methylphenols	0.434	0.111	"	1.11	ND	39.0	10-123				
3,3-Dichlorobenzidine	0.165	0.111	"	1.11	ND	14.9	10-155				
3-Nitroaniline	0.359	0.222	"	1.11	ND	32.3	12-133				
4,6-Dinitro-2-methylphenol	ND	0.222	"	1.11	ND		10-155	Low Bias			
4-Bromophenyl phenyl ether	0.454	0.111	"	1.11	ND	40.8	14-128				
4-Chloro-3-methylphenol	0.515	0.111	"	1.11	ND	46.3	10-134				
4-Chloroaniline	0.281	0.111	"	1.11	ND	25.3	10-145				
4-Chlorophenyl phenyl ether	0.481	0.111	"	1.11	ND	43.3	14-130				
4-Nitroaniline	0.463	0.222	"	1.11	ND	41.6	10-147				
4-Nitrophenol	0.138	0.222	"	1.11	ND	12.4	10-137				
Acenaphthene	0.477	0.111	"	1.11	ND	42.9	10-146				
Acenaphthylene	0.556	0.111	"	1.11	0.137	37.7	10-134				
Acetophenone	0.531	0.111	"	1.11	ND	47.8	10-116				
Aniline	0.285	0.446	"	1.11	ND	25.6	10-123				
Anthracene	0.536	0.111	"	1.11	0.128	36.8	10-142				
Atrazine	0.532	0.111	"	1.11	ND	47.8	19-115				
Benzaldehyde	0.448	0.111	"	1.11	ND	40.3	10-125				
Benzo(a)anthracene	0.672	0.111	"	1.11	0.382	26.0	10-158				
Benzo(a)pyrene	0.640	0.111	"	1.11	0.352	25.9	10-180				
Benzo(b)fluoranthene	0.591	0.111	"	1.11	0.340	22.5	10-200				
Benzo(g,h,i)perylene	0.560	0.111	"	1.11	0.203	32.0	10-138				
Benzo(k)fluoranthene	0.587	0.111	"	1.11	0.315	24.4	10-197				
Benzoic acid	0.185	0.111	"	1.11	ND	16.6	10-166				
Benzyl alcohol	0.464	0.111	"	1.11	ND	41.8	12-124				
Benzyl butyl phthalate	0.503	0.111	"	1.11	ND	45.3	10-154				
Bis(2-chloroethoxy)methane	0.495	0.111	"	1.11	ND	44.5	10-132				
Bis(2-chloroethyl)ether	0.584	0.111	"	1.11	ND	52.5	10-119				
Bis(2-chloroisopropyl)ether	0.469	0.111	"	1.11	ND	42.2	10-139				
Bis(2-ethylhexyl)phthalate	0.518	0.111	"	1.11	ND	46.6	10-167				
Caprolactam	0.624	0.222	"	1.11	ND	56.1	10-132				
Carbazole	0.480	0.111	"	1.11	ND	43.2	10-167				
Chrysene	0.657	0.111	"	1.11	0.404	22.8	10-156				
Dibenzo(a,h)anthracene	0.475	0.111	"	1.11	0.0669	36.7	10-137				
Dibenzofuran	0.493	0.111	"	1.11	ND	44.3	10-147				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50959 - EPA 3546- SVOA RCP											
Matrix Spike (BC50959-MS1) Matrix Spike *Source sample: 25C0261-11 (SB27_5-7)								Prepared & Analyzed: 03/13/2025			
Diethyl phthalate	0.489	0.111	mg/kg dry	1.11	ND	44.0	20-120				
Dimethyl phthalate	0.463	0.111	"	1.11	ND	41.7	18-131				
Di-n-butyl phthalate	0.530	0.111	"	1.11	ND	47.7	10-137				
Di-n-octyl phthalate	0.473	0.111	"	1.11	ND	42.6	10-180				
Diphenylamine	0.509	0.222	"	1.11	ND	45.8	40-140				
Fluoranthene	0.670	0.111	"	1.11	0.869	NR	10-160	Low Bias			
Fluorene	0.504	0.111	"	1.11	ND	45.4	10-157				
Hexachlorobenzene	0.477	0.111	"	1.11	ND	42.9	10-137				
Hexachlorobutadiene	0.514	0.111	"	1.11	ND	46.2	10-132				
Hexachlorocyclopentadiene	ND	0.111	"	1.11	ND		10-106	Low Bias			
Hexachloroethane	0.478	0.111	"	1.11	ND	43.0	10-110				
Indeno(1,2,3-cd)pyrene	0.636	0.111	"	1.11	0.217	37.7	10-144				
Isophorone	0.503	0.111	"	1.11	ND	45.2	10-132				
Naphthalene	0.530	0.111	"	1.11	ND	47.7	10-141				
Nitrobenzene	0.494	0.111	"	1.11	ND	44.4	10-131				
N-Nitrosodimethylamine	0.447	0.111	"	1.11	ND	40.2	10-126				
N-nitroso-di-n-propylamine	0.463	0.111	"	1.11	ND	41.6	10-125				
N-Nitrosodiphenylamine	0.500	0.111	"	1.11	ND	45.0	10-177				
Pentachlorophenol	0.500	0.111	"	1.11	ND	45.0	10-153				
Phenanthrene	0.604	0.111	"	1.11	0.497	9.65	10-148	Low Bias			
Phenol	0.510	0.111	"	1.11	ND	45.8	10-126				
Pyrene	0.782	0.111	"	1.11	0.840	NR	10-165	Low Bias			
Pyridine	0.361	0.446	"	1.11	ND	32.5	10-83				
Surrogate: SURR: 2-Fluorophenol	*1.04*		*"*	*2.22*		*46.9*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.00*		*"*	*2.22*		*45.0*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.474*		*"*	*1.11*		*42.6*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.447*		*"*	*1.11*		*40.2*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.05*		*"*	*2.22*		*47.0*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.489*		*"*	*1.11*		*44.0*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50959 - EPA 3546- SVOA RCP											
Matrix Spike Dup (BC50959-M Matrix Spike Dup	*Source sample: 25C0261-11 (SB27_5-7)							Prepared & Analyzed: 03/13/2025			
1,1-Biphenyl	0.599	0.111	mg/kg dry	1.11	ND	53.8	10-130		26.0	30	
1,2,4,5-Tetrachlorobenzene	0.624	0.222	"	1.11	ND	56.1	10-133		24.3	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.606	0.111	"	1.11	ND	54.5	10-144		26.2	30	
2,3,4,6-Tetrachlorophenol	0.917	0.222	"	1.11	ND	82.5	30-130		37.7	30	Non-dir.
2,4,5-Trichlorophenol	0.634	0.111	"	1.11	ND	57.0	10-127		29.6	30	
2,4,6-Trichlorophenol	0.621	0.111	"	1.11	ND	55.8	10-132		27.9	30	
2,4-Dichlorophenol	0.701	0.111	"	1.11	ND	63.0	10-128		26.8	30	
2,4-Dimethylphenol	0.692	0.111	"	1.11	ND	62.2	10-137		28.5	30	
2,4-Dinitrophenol	ND	0.222	"	1.11	ND		10-171	Low Bias		30	
2,4-Dinitrotoluene	0.634	0.111	"	1.11	ND	57.0	16-135		34.9	30	Non-dir.
2,6-Dinitrotoluene	0.634	0.111	"	1.11	ND	57.0	18-131		31.5	30	Non-dir.
2-Chloronaphthalene	0.576	0.111	"	1.11	ND	51.8	10-129		25.4	30	
2-Chlorophenol	0.637	0.111	"	1.11	ND	57.3	15-116		23.4	30	
2-Methylnaphthalene	0.594	0.111	"	1.11	ND	53.4	10-147		24.2	30	
2-Methylphenol	0.679	0.111	"	1.11	ND	61.0	10-136		31.7	30	Non-dir.
2-Nitroaniline	0.609	0.222	"	1.11	ND	54.8	10-137		22.4	30	
2-Nitrophenol	0.611	0.111	"	1.11	ND	55.0	10-129		41.5	30	Non-dir.
3- & 4-Methylphenols	0.569	0.111	"	1.11	ND	51.2	10-123		27.0	30	
3,3-Dichlorobenzidine	0.415	0.111	"	1.11	ND	37.3	10-155		85.9	30	Non-dir.
3-Nitroaniline	0.569	0.222	"	1.11	ND	51.2	12-133		45.2	30	Non-dir.
4,6-Dinitro-2-methylphenol	0.129	0.222	"	1.11	ND	11.6	10-155			30	
4-Bromophenyl phenyl ether	0.608	0.111	"	1.11	ND	54.7	14-128		29.1	30	
4-Chloro-3-methylphenol	0.714	0.111	"	1.11	ND	64.2	10-134		32.4	30	Non-dir.
4-Chloroaniline	0.441	0.111	"	1.11	ND	39.7	10-145		44.3	30	Non-dir.
4-Chlorophenyl phenyl ether	0.642	0.111	"	1.11	ND	57.8	14-130		28.7	30	
4-Nitroaniline	0.602	0.222	"	1.11	ND	54.2	10-147		26.2	30	
4-Nitrophenol	0.180	0.222	"	1.11	ND	16.2	10-137		26.3	30	
Acenaphthene	0.627	0.111	"	1.11	ND	56.4	10-146		27.2	30	
Acenaphthylene	0.656	0.111	"	1.11	0.137	46.7	10-134		16.4	30	
Acetophenone	0.682	0.111	"	1.11	ND	61.4	10-116		24.9	30	
Aniline	0.384	0.446	"	1.11	ND	34.6	10-123		29.8	30	
Anthracene	0.695	0.111	"	1.11	0.128	51.0	10-142		25.7	30	
Atrazine	0.698	0.111	"	1.11	ND	62.8	19-115		27.0	30	
Benzaldehyde	0.591	0.111	"	1.11	ND	53.1	10-125		27.4	30	
Benzo(a)anthracene	0.777	0.111	"	1.11	0.382	35.5	10-158		14.5	30	
Benzo(a)pyrene	0.758	0.111	"	1.11	0.352	36.5	10-180		16.8	30	
Benzo(b)fluoranthene	0.833	0.111	"	1.11	0.340	44.3	10-200		34.0	30	Non-dir.
Benzo(g,h,i)perylene	0.686	0.111	"	1.11	0.203	43.4	10-138		20.3	30	
Benzo(k)fluoranthene	0.737	0.111	"	1.11	0.315	38.0	10-197		22.7	30	
Benzoic acid	0.124	0.111	"	1.11	ND	11.1	10-166		39.8	30	Non-dir.
Benzyl alcohol	0.610	0.111	"	1.11	ND	54.9	12-124		27.2	30	
Benzyl butyl phthalate	0.651	0.111	"	1.11	ND	58.6	10-154		25.6	30	
Bis(2-chloroethoxy)methane	0.635	0.111	"	1.11	ND	57.1	10-132		24.9	30	
Bis(2-chloroethyl)ether	0.753	0.111	"	1.11	ND	67.7	10-119		25.3	30	
Bis(2-chloroisopropyl)ether	0.604	0.111	"	1.11	ND	54.3	10-139		25.2	30	
Bis(2-ethylhexyl)phthalate	0.718	0.111	"	1.11	ND	64.6	10-167		32.4	30	Non-dir.
Caprolactam	0.853	0.222	"	1.11	ND	76.7	10-132		31.1	30	Non-dir.
Carbazole	0.640	0.111	"	1.11	ND	57.5	10-167		28.4	30	
Chrysene	0.753	0.111	"	1.11	0.404	31.4	10-156		13.6	30	
Dibenzo(a,h)anthracene	0.642	0.111	"	1.11	0.0669	51.7	10-137		29.9	30	
Dibenzofuran	0.658	0.111	"	1.11	ND	59.2	10-147		28.7	30	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50959 - EPA 3546- SVOA RCP											
Matrix Spike Dup (BC50959-M Matrix Spike Dup *Source sample: 25C0261-11 (SB27_5-7)								Prepared & Analyzed: 03/13/2025			
Diethyl phthalate	0.659	0.111	mg/kg dry	1.11	ND	59.3	20-120		29.6	30	
Dimethyl phthalate	0.609	0.111	"	1.11	ND	54.8	18-131		27.2	30	
Di-n-butyl phthalate	0.689	0.111	"	1.11	ND	61.9	10-137		26.0	30	
Di-n-octyl phthalate	0.653	0.111	"	1.11	ND	58.7	10-180		31.9	30	Non-dir.
Diphenylamine	0.667	0.222	"	1.11	ND	60.0	40-140		26.9	30	
Fluoranthene	0.790	0.111	"	1.11	0.869	NR	10-160	Low Bias	16.5	30	
Fluorene	0.664	0.111	"	1.11	ND	59.7	10-157		27.3	30	
Hexachlorobenzene	0.618	0.111	"	1.11	ND	55.6	10-137		25.8	30	
Hexachlorobutadiene	0.656	0.111	"	1.11	ND	59.0	10-132		24.3	30	
Hexachlorocyclopentadiene	0.0569	0.111	"	1.11	ND	5.12	10-106	Low Bias		30	
Hexachloroethane	0.587	0.111	"	1.11	ND	52.8	10-110		20.6	30	
Indeno(1,2,3-cd)pyrene	0.774	0.111	"	1.11	0.217	50.1	10-144		19.6	30	
Isophorone	0.655	0.111	"	1.11	ND	58.9	10-132		26.3	30	
Naphthalene	0.655	0.111	"	1.11	ND	58.9	10-141		21.0	30	
Nitrobenzene	0.634	0.111	"	1.11	ND	57.0	10-131		24.9	30	
N-Nitrosodimethylamine	0.572	0.111	"	1.11	ND	51.4	10-126		24.6	30	
N-nitroso-di-n-propylamine	0.603	0.111	"	1.11	ND	54.2	10-125		26.4	30	
N-Nitrosodiphenylamine	0.663	0.111	"	1.11	ND	59.6	10-177		28.0	30	
Pentachlorophenol	0.535	0.111	"	1.11	ND	48.1	10-153		6.71	30	
Phenanthrene	0.748	0.111	"	1.11	0.497	22.6	10-148		21.3	30	
Phenol	0.636	0.111	"	1.11	ND	57.2	10-126		22.0	30	
Pyrene	0.797	0.111	"	1.11	0.840	NR	10-165	Low Bias	1.92	30	
Pyridine	0.475	0.446	"	1.11	ND	42.7	10-83		27.2	30	
Surrogate: SURR: 2-Fluorophenol	*1.30*		*"*	*2.22*		*58.4*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.32*		*"*	*2.22*		*59.4*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.647*		*"*	*1.11*		*58.2*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.580*		*"*	*1.11*		*52.2*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.43*		*"*	*2.22*		*64.3*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.647*		*"*	*1.11*		*58.2*	*24-116*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50497 - EPA 3535A											
Blank (BC50497-BLK1) Blank							Prepared: 03/07/2025 Analyzed: 03/08/2025				
1,4-Dioxane	ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8	*4.00*		*"*	*4.00*		*100*	*36.6-118*				
LCS (BC50497-BS1) LCS							Prepared: 03/07/2025 Analyzed: 03/08/2025				
1,4-Dioxane	2.85	0.300	ug/L	4.00		71.2	50-130				
Surrogate: 1,4-Dioxane-d8	*3.36*		*"*	*4.00*		*84.0*	*36.6-118*				
Batch BC50862 - EPA 3550C											
Blank (BC50862-BLK1) Blank							Prepared: 03/12/2025 Analyzed: 03/13/2025				
1,4-Dioxane	ND	19.8	ug/kg								
Surrogate: 1,4-Dioxane-d8	*475*		*"*	*495*		*96.0*	*39-127.5*				
LCS (BC50862-BS1) LCS							Prepared: 03/12/2025 Analyzed: 03/13/2025				
1,4-Dioxane	443	19.8	ug/kg	495		89.4	40-130				
Surrogate: 1,4-Dioxane-d8	*416*		*"*	*495*		*84.0*	*39-127.5*				
Batch BC50970 - EPA 3550C											
Blank (BC50970-BLK1) Blank							Prepared: 03/13/2025 Analyzed: 03/14/2025				
1,4-Dioxane	ND	19.8	ug/kg								
Surrogate: 1,4-Dioxane-d8	*386*		*"*	*495*		*78.0*	*39-127.5*				
LCS (BC50970-BS1) LCS							Prepared: 03/13/2025 Analyzed: 03/14/2025				
1,4-Dioxane	508	19.8	ug/kg	495		103	40-130				
Surrogate: 1,4-Dioxane-d8	*317*		*"*	*495*		*64.0*	*39-127.5*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50970 - EPA 3550C											
Matrix Spike (BC50970-MS1) Matrix Spike *Source sample: 25C0261-11 (SB27_5-7)								Prepared: 03/13/2025 Analyzed: 03/14/2025			
1,4-Dioxane	547	19.8	ug/kg	495	ND	110	40-130				
Surrogate: 1,4-Dioxane-d8	*297*		*"*	*495*		*60.0*	*40-130*				
Matrix Spike Dup (BC50970-! Matrix Spike Dup *Source sample: 25C0261-11 (SB27_5-7)								Prepared: 03/13/2025 Analyzed: 03/14/2025			
1,4-Dioxane	439	19.8	ug/kg	495	ND	88.6	40-130		21.9	30	
Surrogate: 1,4-Dioxane-d8	*386*		*"*	*495*		*78.0*	*40-130*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50602 - EPA 1633 Prep											
Blank (BC50602-BLK1) Blank									Prepared: 03/08/2025 Analyzed: 03/10/2025		
Perfluorobutanesulfonic acid (PFBS)	ND	0.177	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.200	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.200	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.183	"								
Perfluorooctanoic acid (PFOA)	ND	0.200	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.186	"								
Perfluorononanoic acid (PFNA)	ND	0.200	"								
Perfluorodecanoic acid (PFDA)	ND	0.200	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.200	"								
Perfluorododecanoic acid (PFDoA)	ND	0.200	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.200	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.200	"								
N-MeFOSAA	ND	0.200	"								
N-EtFOSAA	ND	0.200	"								
Perfluoropentanoic acid (PFPeA)	ND	0.401	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.200	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.200	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.193	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	0.762	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	0.770	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.802	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.357	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.401	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.401	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.401	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.188	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	ND	0.752	"								
HFPO-DA (Gen-X)	ND	0.802	"								
11CL-PF3OUdS	ND	0.758	"								
9CL-PF3ONS	ND	0.749	"								
ADONA	ND	0.758	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.194	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.192	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	1.00	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	5.01	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	5.01	"								
N-MeFOSE	ND	2.00	"								
N-MeFOSA	ND	0.200	"								
N-EtFOSE	ND	2.00	"								
N-EtFOSA	ND	0.200	"								
Surrogate: M3PFBS	*2.52*		*"*	*2.33*		*108*	*25-150*				
Surrogate: M5PFHxA	*2.67*		*"*	*2.51*		*107*	*25-150*				
Surrogate: M4PFHpA	*2.84*		*"*	*2.51*		*113*	*25-150*				
Surrogate: M3PFHxS	*2.57*		*"*	*2.37*		*108*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.64*		*"*	*2.51*		*106*	*25-150*				
Surrogate: M6PFDA	*1.26*		*"*	*1.25*		*101*	*25-150*				
Surrogate: M7PFUdA	*1.31*		*"*	*1.25*		*105*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.09*		*"*	*1.25*		*86.8*	*25-150*				
Surrogate: M2PFTeDA	*0.882*		*"*	*1.25*		*70.4*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50602 - EPA 1633 Prep											
Blank (BC50602-BLK1) Blank								Prepared: 03/08/2025 Analyzed: 03/10/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*10.2*		*ug/kg wet*	*10.0*		*102*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.53*		*"*	*2.40*		*105*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*5.41*		*"*	*5.01*		*108*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.49*		*"*	*2.51*		*99.3*	*10-150*				
Surrogate: d3-N-MeFOSAA	*5.04*		*"*	*5.01*		*101*	*25-150*				
Surrogate: d5-N-EtFOSAA	*5.03*		*"*	*5.01*		*100*	*25-150*				
Surrogate: M2-6:2 FTS	*4.63*		*"*	*4.76*		*97.2*	*25-200*				
Surrogate: M2-8:2 FTS	*6.38*		*"*	*4.81*		*133*	*25-200*				
Surrogate: M9PFNA	*1.05*		*"*	*1.25*		*83.5*	*25-150*				
Surrogate: M2-4:2 FTS	*4.41*		*"*	*4.70*		*93.9*	*25-150*				
Surrogate: d-N-MeFOSA	*2.11*		*"*	*2.51*		*84.2*	*25-150*				
Surrogate: d-N-EtFOSA	*1.82*		*"*	*2.51*		*72.8*	*25-150*				
Surrogate: M3HFPO-DA	*6.47*		*"*	*10.0*		*64.5*	*25-150*				
Surrogate: d9-N-EtFOSE	*20.8*		*"*	*25.1*		*82.9*	*25-150*				
Surrogate: d7-N-MeFOSE	*20.6*		*"*	*25.1*		*82.4*	*25-150*				
LCS (BC50602-BS1) LCS								Prepared: 03/08/2025 Analyzed: 03/10/2025			
Perfluorobutanesulfonic acid (PFBS)	3.57	0.178	ug/kg wet	3.55		100	50-150				
Perfluorohexanoic acid (PFHxA)	3.73	0.201	"	4.02		92.9	50-150				
Perfluoroheptanoic acid (PFHpA)	3.24	0.201	"	4.02		80.6	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.55	0.184	"	3.67		96.7	50-150				
Perfluorooctanoic acid (PFOA)	3.65	0.201	"	4.02		90.9	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.49	0.187	"	3.73		93.4	50-150				
Perfluorononanoic acid (PFNA)	4.15	0.201	"	4.02		103	50-150				
Perfluorodecanoic acid (PFDA)	3.50	0.201	"	4.02		87.1	50-150				
Perfluoroundecanoic acid (PFUnA)	3.49	0.201	"	4.02		86.9	50-150				
Perfluorododecanoic acid (PFDoA)	3.27	0.201	"	4.02		81.3	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.13	0.201	"	4.02		103	50-150				
Perfluorotetradecanoic acid (PFTA)	4.04	0.201	"	4.02		101	50-150				
N-MeFOSAA	3.88	0.201	"	4.02		96.5	50-150				
N-EtFOSAA	4.12	0.201	"	4.02		103	50-150				
Perfluoropentanoic acid (PFPeA)	7.57	0.402	"	8.03		94.2	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	3.32	0.201	"	4.02		82.7	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.18	0.201	"	3.84		109	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	2.73	0.194	"	3.88		70.4	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	14.2	0.763	"	15.3		93.3	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	13.0	0.771	"	15.4		84.5	50-150				
Perfluoro-n-butanoic acid (PFBA)	14.8	0.803	"	16.1		92.2	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.14	0.357	"	7.15		99.9	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	9.48	0.402	"	8.03		118	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	5.30	0.402	"	8.03		66.0	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	7.85	0.402	"	8.03		97.8	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	3.70	0.189	"	3.78		97.9	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	13.9	0.753	"	15.1		92.1	50-150				
HFPO-DA (Gen-X)	7.26	0.803	"	8.03		90.4	50-150				
11CL-PF3OUdS	4.73	0.759	"	7.59		62.3	50-150				
9CL-PF3ONS	5.81	0.751	"	7.51		77.3	50-150				
ADONA	10.9	0.759	"	7.59		144	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50602 - EPA 1633 Prep											
LCS (BC50602-BS1) LCS								Prepared: 03/08/2025 Analyzed: 03/10/2025			
Perfluorododecanesulfonic acid (PFDoS)	2.26	0.195	ug/kg wet	3.90		58.0	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	3.13	0.193	"	3.86		81.1	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	13.3	1.00	"	16.1		83.0	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	69.1	5.02	"	80.3		86.0	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	57.0	5.02	"	80.3		70.9	50-150				
N-MeFOSE	36.8	2.01	"	40.2		91.5	50-150				
N-MeFOSA	3.78	0.201	"	4.02		94.1	50-150				
N-EtFOSE	38.2	2.01	"	40.2		95.1	50-150				
N-EtFOSA	3.55	0.201	"	4.02		88.5	50-150				
Surrogate: M3PFBS	*2.61*		*"*	*2.34*		*112*	*25-150*				
Surrogate: M5PFHxA	*2.87*		*"*	*2.51*		*115*	*25-150*				
Surrogate: M4PFHpA	*2.95*		*"*	*2.51*		*117*	*25-150*				
Surrogate: M3PFHxS	*2.34*		*"*	*2.38*		*98.3*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.51*		*"*	*2.51*		*100*	*25-150*				
Surrogate: M6PFDA	*1.00*		*"*	*1.26*		*80.1*	*25-150*				
Surrogate: M7PFUdA	*0.842*		*"*	*1.26*		*67.1*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.690*		*"*	*1.26*		*55.0*	*25-150*				
Surrogate: M2PFTeDA	*0.550*		*"*	*1.26*		*43.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*3.09*		*"*	*10.0*		*30.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.71*		*"*	*2.40*		*71.2*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*6.06*		*"*	*5.02*		*121*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.94*		*"*	*2.51*		*77.2*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.61*		*"*	*5.02*		*72.0*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.27*		*"*	*5.02*		*65.1*	*25-150*				
Surrogate: M2-6:2 FTS	*4.95*		*"*	*4.77*		*104*	*25-200*				
Surrogate: M2-8:2 FTS	*5.23*		*"*	*4.82*		*109*	*25-200*				
Surrogate: M9PFNA	*0.944*		*"*	*1.26*		*75.2*	*25-150*				
Surrogate: M2-4:2 FTS	*5.91*		*"*	*4.71*		*125*	*25-150*				
Surrogate: d-N-MeFOSA	*1.33*		*"*	*2.51*		*53.0*	*25-150*				
Surrogate: d-N-EtFOSA	*1.11*		*"*	*2.51*		*44.0*	*25-150*				
Surrogate: M3HFPO-DA	*7.36*		*"*	*10.0*		*73.3*	*25-150*				
Surrogate: d9-N-EtFOSE	*11.6*		*"*	*25.1*		*46.1*	*25-150*				
Surrogate: d7-N-MeFOSE	*12.5*		*"*	*25.1*		*49.9*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50602 - EPA 1633 Prep											
LCS (BC50602-BS2) LCS								Prepared: 03/08/2025 Analyzed: 03/10/2025			
Perfluorobutanesulfonic acid (PFBS)	0.358	0.177	ug/kg wet	0.355		101	50-150				
Perfluorohexanoic acid (PFHxA)	0.361	0.200	"	0.401		90.0	50-150				
Perfluoroheptanoic acid (PFHpA)	0.331	0.200	"	0.401		82.6	50-150				
Perfluorohexanesulfonic acid (PFHxS)	0.420	0.183	"	0.367		115	50-150				
Perfluorooctanoic acid (PFOA)	0.349	0.200	"	0.401		87.1	50-150				
Perfluorooctanesulfonic acid (PFOS)	0.336	0.186	"	0.373		90.2	50-150				
Perfluorononanoic acid (PFNA)	0.284	0.200	"	0.401		70.8	50-150				
Perfluorodecanoic acid (PFDA)	0.402	0.200	"	0.401		100	50-150				
Perfluoroundecanoic acid (PFUnA)	0.337	0.200	"	0.401		84.1	50-150				
Perfluorododecanoic acid (PFDoA)	0.356	0.200	"	0.401		88.8	50-150				
Perfluorotridecanoic acid (PFTrDA)	0.378	0.200	"	0.401		94.4	50-150				
Perfluorotetradecanoic acid (PFTA)	0.382	0.200	"	0.401		95.4	50-150				
N-MeFOSAA	0.377	0.200	"	0.401		94.2	50-150				
N-EtFOSAA	0.463	0.200	"	0.401		115	50-150				
Perfluoropentanoic acid (PFPeA)	0.723	0.401	"	0.802		90.2	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	0.348	0.200	"	0.401		86.9	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.407	0.200	"	0.383		106	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	0.213	0.193	"	0.387		55.1	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	1.75	0.762	"	1.52		115	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	1.38	0.770	"	1.54		89.8	50-150				
Perfluoro-n-butanoic acid (PFBA)	1.52	0.802	"	1.60		94.7	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.693	0.357	"	0.713		97.1	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	0.927	0.401	"	0.802		116	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	0.445	0.401	"	0.802		55.5	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	0.803	0.401	"	0.802		100	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	0.381	0.188	"	0.377		101	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	1.46	0.752	"	1.50		97.2	50-150				
HFPO-DA (Gen-X)	0.360	0.802	"	0.802		44.9	50-150	Low Bias			
11CL-PF3OUdS	0.613	0.758	"	0.758		81.0	50-150				
9CL-PF3ONS	0.736	0.749	"	0.749		98.2	50-150				
ADONA	1.08	0.758	"	0.758		142	50-150				
Perfluorododecanesulfonic acid (PFDoS)	0.182	0.194	"	0.389		46.7	50-150	Low Bias			
Perfluoro-1-nonanesulfonic acid (PFNS)	0.310	0.192	"	0.385		80.7	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	1.18	1.00	"	1.60		73.8	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	6.77	5.01	"	8.02		84.5	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	5.81	5.01	"	8.02		72.5	50-150				
N-MeFOSE	4.19	2.00	"	4.01		105	50-150				
N-MeFOSA	0.482	0.200	"	0.401		120	50-150				
N-EtFOSE	3.68	2.00	"	4.01		91.8	50-150				
N-EtFOSA	0.367	0.200	"	0.401		91.5	50-150				
Surrogate: M3PFBS	*2.71*		*"*	*2.33*		*116*	*25-150*				
Surrogate: M5PFHxA	*2.83*		*"*	*2.51*		*113*	*25-150*				
Surrogate: M4PFHpA	*2.80*		*"*	*2.51*		*112*	*25-150*				
Surrogate: M3PFHxS	*2.23*		*"*	*2.37*		*94.0*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.35*		*"*	*2.51*		*93.8*	*25-150*				
Surrogate: M6PFDA	*0.997*		*"*	*1.25*		*79.6*	*25-150*				
Surrogate: M7PFUdA	*0.994*		*"*	*1.25*		*79.4*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.825*		*"*	*1.25*		*65.9*	*25-150*				
Surrogate: M2PFTeDA	*0.670*		*"*	*1.25*		*53.5*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50602 - EPA 1633 Prep											
LCS (BC50602-BS2) LCS								Prepared: 03/08/2025 Analyzed: 03/10/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.72*		*ug/kg wet*	*10.0*		*17.1*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.14*		*"*	*2.40*		*89.3*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*5.54*		*"*	*5.01*		*111*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.11*		*"*	*2.51*		*84.2*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.32*		*"*	*5.01*		*86.2*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.18*		*"*	*5.01*		*83.5*	*25-150*				
Surrogate: M2-6:2 FTS	*4.45*		*"*	*4.76*		*93.4*	*25-200*				
Surrogate: M2-8:2 FTS	*5.54*		*"*	*4.81*		*115*	*25-200*				
Surrogate: M9PFNA	*1.31*		*"*	*1.25*		*104*	*25-150*				
Surrogate: M2-4:2 FTS	*5.25*		*"*	*4.70*		*112*	*25-150*				
Surrogate: d-N-MeFOSA	*1.51*		*"*	*2.51*		*60.2*	*25-150*				
Surrogate: d-N-EtFOSA	*1.25*		*"*	*2.51*		*49.7*	*25-150*				
Surrogate: M3HFPO-DA	*7.03*		*"*	*10.0*		*70.2*	*25-150*				
Surrogate: d9-N-EtFOSE	*14.2*		*"*	*25.1*		*56.9*	*25-150*				
Surrogate: d7-N-MeFOSE	*14.7*		*"*	*25.1*		*58.7*	*25-150*				
Batch BC50813 - EPA 1633 Prep											
Blank (BC50813-BLK1) Blank								Prepared: 03/11/2025 Analyzed: 03/13/2025			
Perfluorobutanesulfonic acid (PFBS)	ND	1.77	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.83	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	1.86	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	4.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.91	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.93	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	7.60	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	7.68	"								
Perfluoro-n-butanoic acid (PFBA)	ND	8.00	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.56	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	4.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	4.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	4.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.88	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	ND	7.50	"								
HFPO-DA (Gen-X)	ND	8.00	"								
11CL-PF3OUdS	ND	7.56	"								

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50813 - EPA 1633 Prep											
Blank (BC50813-BLK1) Blank								Prepared: 03/11/2025 Analyzed: 03/13/2025			
9CL-PF3ONS	ND	7.48	ng/L								
ADONA	ND	7.56	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	1.94	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.92	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	5.00	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	25.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	25.0	"								
N-MeFOSE	ND	20.0	"								
N-MeFOSA	ND	2.00	"								
N-EtFOSE	ND	20.0	"								
N-EtFOSA	ND	2.00	"								
Surrogate: M3PFBS	*30.9*		*"*	*23.3*		*133*	*25-150*				
Surrogate: M5PFHxA	*29.7*		*"*	*25.0*		*119*	*25-150*				
Surrogate: M4PFHpA	*39.3*		*"*	*25.0*		*157*	*25-150*				
Surrogate: M3PFHxS	*31.6*		*"*	*23.7*		*133*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*32.5*		*"*	*25.0*		*130*	*25-150*				
Surrogate: M6PFDA	*13.8*		*"*	*12.5*		*111*	*25-150*				
Surrogate: M7PFUdA	*15.1*		*"*	*12.5*		*121*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*12.8*		*"*	*12.5*		*102*	*25-150*				
Surrogate: M2PFTeDA	*10.9*		*"*	*12.5*		*87.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.01*		*"*	*100*		*2.01*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*26.0*		*"*	*24.0*		*108*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*27.0*		*"*	*50.0*		*54.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*26.8*		*"*	*25.0*		*107*	*10-150*				
Surrogate: d3-N-MeFOSAA	*56.4*		*"*	*50.0*		*113*	*25-150*				
Surrogate: d5-N-EtFOSAA	*59.4*		*"*	*50.0*		*119*	*25-150*				
Surrogate: M2-6:2 FTS	*58.3*		*"*	*47.6*		*123*	*25-200*				
Surrogate: M2-8:2 FTS	*53.0*		*"*	*48.0*		*111*	*25-200*				
Surrogate: M9PFNA	*14.4*		*"*	*12.5*		*115*	*25-150*				
Surrogate: M2-4:2 FTS	*63.4*		*"*	*46.9*		*135*	*25-150*				
Surrogate: d-N-MeFOSA	*23.0*		*"*	*25.0*		*91.8*	*25-150*				
Surrogate: d-N-EtFOSA	*21.9*		*"*	*25.0*		*87.7*	*25-150*				
Surrogate: M3HFPO-DA	*126*		*"*	*100*		*126*	*25-150*				
Surrogate: d9-N-EtFOSE	*202*		*"*	*250*		*80.9*	*25-150*				
Surrogate: d7-N-MeFOSE	*191*		*"*	*250*		*76.4*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50813 - EPA 1633 Prep											
LCS (BC50813-BS1) LCS								Prepared: 03/11/2025 Analyzed: 03/13/2025			
Perfluorobutanesulfonic acid (PFBS)	31.1	1.77	ng/L	35.4		87.9	50-150				
Perfluorohexanoic acid (PFHxA)	35.3	2.00	"	40.0		88.3	50-150				
Perfluoroheptanoic acid (PFHpA)	29.9	2.00	"	40.0		74.8	50-150				
Perfluorohexanesulfonic acid (PFHxS)	32.7	1.83	"	36.6		89.4	50-150				
Perfluorooctanoic acid (PFOA)	31.6	2.00	"	40.0		79.1	50-150				
Perfluorooctanesulfonic acid (PFOS)	31.3	1.86	"	37.2		84.0	50-150				
Perfluorononanoic acid (PFNA)	34.6	2.00	"	40.0		86.6	50-150				
Perfluorodecanoic acid (PFDA)	33.3	2.00	"	40.0		83.3	50-150				
Perfluoroundecanoic acid (PFUnA)	32.0	2.00	"	40.0		79.9	50-150				
Perfluorododecanoic acid (PFDoA)	29.2	2.00	"	40.0		73.0	50-150				
Perfluorotridecanoic acid (PFTrDA)	34.5	2.00	"	40.0		86.2	50-150				
Perfluorotetradecanoic acid (PFTA)	30.5	2.00	"	40.0		76.2	50-150				
N-MeFOSAA	35.2	2.00	"	40.0		88.0	50-150				
N-EtFOSAA	35.6	2.00	"	40.0		89.1	50-150				
Perfluoropentanoic acid (PFPeA)	67.9	4.00	"	80.0		84.9	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	36.6	2.00	"	40.0		91.5	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	34.9	1.91	"	38.2		91.5	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	33.1	1.93	"	38.6		85.7	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	138	7.60	"	152		90.7	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	134	7.68	"	154		87.4	50-150				
Perfluoro-n-butanoic acid (PFBA)	111	8.00	"	160		69.3	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	71.9	3.56	"	71.2		101	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	76.4	4.00	"	80.0		95.5	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	13.7	4.00	"	80.0		17.1	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	97.9	4.00	"	80.0		122	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	34.0	1.88	"	37.6		90.4	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	140	7.50	"	150		93.0	50-150				
HFPO-DA (Gen-X)	70.3	8.00	"	80.0		87.9	50-150				
11CL-PF3OUdS	59.4	7.56	"	75.6		78.6	50-150				
9CL-PF3ONS	69.9	7.48	"	74.8		93.4	50-150				
ADONA	70.4	7.56	"	75.6		93.1	50-150				
Perfluorododecanesulfonic acid (PFDoS)	26.2	1.94	"	38.8		67.6	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	40.2	1.92	"	38.4		105	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	703	5.00	"	160		440	50-150	High Bias			
3-Perfluoropentyl propanoic acid (FPePA)	722	25.0	"	800		90.3	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	70.7	25.0	"	800		8.84	50-150	Low Bias			
N-MeFOSE	355	20.0	"	400		88.8	50-150				
N-MeFOSA	34.6	2.00	"	40.0		86.6	50-150				
N-EtFOSE	328	20.0	"	400		82.0	50-150				
N-EtFOSA	30.2	2.00	"	40.0		75.4	50-150				
Surrogate: M3PFBS	*32.2*		*"*	*23.3*		*138*	*25-150*				
Surrogate: M5PFHxA	*27.5*		*"*	*25.0*		*110*	*25-150*				
Surrogate: M4PFHpA	*36.7*		*"*	*25.0*		*147*	*25-150*				
Surrogate: M3PFHxS	*32.1*		*"*	*23.7*		*136*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*31.7*		*"*	*25.0*		*127*	*25-150*				
Surrogate: M6PFDA	*13.6*		*"*	*12.5*		*109*	*25-150*				
Surrogate: M7PFUdA	*15.3*		*"*	*12.5*		*123*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*13.1*		*"*	*12.5*		*105*	*25-150*				
Surrogate: M2PFTeDA	*10.4*		*"*	*12.5*		*83.5*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50813 - EPA 1633 Prep											
LCS (BC50813-BS1) LCS								Prepared: 03/11/2025 Analyzed: 03/13/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.90*		*ng/L*	*100*		*2.90*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*26.5*		*"*	*24.0*		*110*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*31.8*		*"*	*50.0*		*63.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*25.2*		*"*	*25.0*		*101*	*10-150*				
Surrogate: d3-N-MeFOSAA	*58.8*		*"*	*50.0*		*118*	*25-150*				
Surrogate: d5-N-EtFOSAA	*60.2*		*"*	*50.0*		*120*	*25-150*				
Surrogate: M2-6:2 FTS	*62.2*		*"*	*47.6*		*131*	*25-200*				
Surrogate: M2-8:2 FTS	*63.9*		*"*	*48.0*		*133*	*25-200*				
Surrogate: M9PFNA	*14.2*		*"*	*12.5*		*114*	*25-150*				
Surrogate: M2-4:2 FTS	*62.5*		*"*	*46.9*		*133*	*25-150*				
Surrogate: d-N-MeFOSA	*26.4*		*"*	*25.0*		*105*	*25-150*				
Surrogate: d-N-EtFOSA	*23.7*		*"*	*25.0*		*94.8*	*25-150*				
Surrogate: M3HFPO-DA	*116*		*"*	*100*		*116*	*25-150*				
Surrogate: d9-N-EtFOSE	*183*		*"*	*250*		*73.2*	*25-150*				
Surrogate: d7-N-MeFOSE	*189*		*"*	*250*		*75.7*	*25-150*				
LCS (BC50813-BS2) LCS								Prepared: 03/11/2025 Analyzed: 03/13/2025			
Perfluorobutanesulfonic acid (PFBS)	3.07	1.77	ng/L	3.54		86.8	50-150				
Perfluorohexanoic acid (PFHxA)	3.42	2.00	"	4.00		85.5	50-150				
Perfluoroheptanoic acid (PFHpA)	2.81	2.00	"	4.00		70.3	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.41	1.83	"	3.66		93.2	50-150				
Perfluorooctanoic acid (PFOA)	3.25	2.00	"	4.00		81.3	50-150				
Perfluorooctanesulfonic acid (PFOS)	2.73	1.86	"	3.72		73.3	50-150				
Perfluorononanoic acid (PFNA)	3.27	2.00	"	4.00		81.7	50-150				
Perfluorodecanoic acid (PFDA)	2.92	2.00	"	4.00		73.1	50-150				
Perfluoroundecanoic acid (PFUnA)	2.51	2.00	"	4.00		62.8	50-150				
Perfluorododecanoic acid (PFDoA)	2.89	2.00	"	4.00		72.2	50-150				
Perfluorotridecanoic acid (PFTrDA)	3.15	2.00	"	4.00		78.7	50-150				
Perfluorotetradecanoic acid (PFTA)	2.79	2.00	"	4.00		69.8	50-150				
N-MeFOSAA	3.55	2.00	"	4.00		88.9	50-150				
N-EtFOSAA	3.55	2.00	"	4.00		88.6	50-150				
Perfluoropentanoic acid (PFPeA)	6.53	4.00	"	8.00		81.7	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	3.27	2.00	"	4.00		81.9	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.76	1.91	"	3.82		98.4	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.20	1.93	"	3.86		82.8	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	13.8	7.60	"	15.2		90.9	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	12.8	7.68	"	15.4		83.3	50-150				
Perfluoro-n-butanoic acid (PFBA)	12.7	8.00	"	16.0		79.7	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.16	3.56	"	7.12		100	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	10.2	4.00	"	8.00		127	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.34	4.00	"	8.00		16.7	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	9.34	4.00	"	8.00		117	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	3.28	1.88	"	3.76		87.2	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	14.5	7.50	"	15.0		96.8	50-150				
HFPO-DA (Gen-X)	8.96	8.00	"	8.00		112	50-150				
11CL-PF3OUdS	5.16	7.56	"	7.56		68.2	50-150				
9CL-PF3ONS	5.66	7.48	"	7.48		75.6	50-150				
ADONA	6.25	7.56	"	7.56		82.7	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50813 - EPA 1633 Prep											
LCS (BC50813-BS2) LCS								Prepared: 03/11/2025 Analyzed: 03/13/2025			
Perfluorododecanesulfonic acid (PFDoS)	2.66	1.94	ng/L	3.88		68.5	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	4.21	1.92	"	3.84		110	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	62.0	5.00	"	16.0		388	50-150	High Bias			
3-Perfluoropentyl propanoic acid (FPePA)	65.1	25.0	"	80.0		81.4	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	5.32	25.0	"	80.0		6.64	50-150	Low Bias			
N-MeFOSE	32.9	20.0	"	40.0		82.3	50-150				
N-MeFOSA	2.54	2.00	"	4.00		63.4	50-150				
N-EtFOSE	29.2	20.0	"	40.0		73.0	50-150				
N-EtFOSA	2.67	2.00	"	4.00		66.7	50-150				
Surrogate: M3PFBS	*32.2*		*"*	*23.3*		*138*	*25-150*				
Surrogate: M5PFHxA	*27.7*		*"*	*25.0*		*111*	*25-150*				
Surrogate: M4PFHpA	*36.5*		*"*	*25.0*		*146*	*25-150*				
Surrogate: M3PFHxS	*30.7*		*"*	*23.7*		*130*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*29.2*		*"*	*25.0*		*117*	*25-150*				
Surrogate: M6PFDA	*13.2*		*"*	*12.5*		*105*	*25-150*				
Surrogate: M7PFUdA	*12.4*		*"*	*12.5*		*99.0*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*11.9*		*"*	*12.5*		*95.4*	*25-150*				
Surrogate: M2PFTeDA	*10.5*		*"*	*12.5*		*84.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*3.51*		*"*	*100*		*3.51*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*25.3*		*"*	*24.0*		*106*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*31.5*		*"*	*50.0*		*63.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*24.5*		*"*	*25.0*		*97.8*	*10-150*				
Surrogate: d3-N-MeFOSAA	*57.9*		*"*	*50.0*		*116*	*25-150*				
Surrogate: d5-N-EtFOSAA	*63.0*		*"*	*50.0*		*126*	*25-150*				
Surrogate: M2-6:2 FTS	*59.5*		*"*	*47.6*		*125*	*25-200*				
Surrogate: M2-8:2 FTS	*59.3*		*"*	*48.0*		*124*	*25-200*				
Surrogate: M9PFNA	*13.0*		*"*	*12.5*		*104*	*25-150*				
Surrogate: M2-4:2 FTS	*60.5*		*"*	*46.9*		*129*	*25-150*				
Surrogate: d-N-MeFOSA	*25.2*		*"*	*25.0*		*101*	*25-150*				
Surrogate: d-N-EtFOSA	*23.3*		*"*	*25.0*		*93.3*	*25-150*				
Surrogate: M3HFPO-DA	*121*		*"*	*100*		*121*	*25-150*				
Surrogate: d9-N-EtFOSE	*212*		*"*	*250*		*85.0*	*25-150*				
Surrogate: d7-N-MeFOSE	*187*		*"*	*250*		*74.8*	*25-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50644 - EPA SW846-3510C Low Level											
Blank (BC50644-BLK1) Blank							Prepared & Analyzed: 03/10/2025				
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Chlordane, total	ND	0.200	"								
Surrogate: Decachlorobiphenyl	*0.103*		*"*	*0.200*		*51.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0554*		*"*	*0.200*		*27.7*	*30-150*				
LCS (BC50644-BS1) LCS							Prepared & Analyzed: 03/10/2025				
4,4'-DDD	0.0706	0.00400	ug/L	0.100		70.6	40-140			20	
4,4'-DDE	0.0599	0.00400	"	0.100		59.9	40-140			20	
4,4'-DDT	0.0811	0.00400	"	0.100		81.1	40-140			20	
Aldrin	0.0466	0.00400	"	0.100		46.6	40-140			20	
alpha-BHC	0.0559	0.00400	"	0.100		55.9	40-140			20	
alpha-Chlordane	0.0546	0.00400	"	0.100		54.6	40-140			20	
beta-BHC	0.0684	0.00400	"	0.100		68.4	40-140			20	
delta-BHC	0.0487	0.00400	"	0.100		48.7	40-140			20	
Dieldrin	0.0619	0.00200	"	0.100		61.9	40-140			20	
Endosulfan I	0.0613	0.00400	"	0.100		61.3	40-140			20	
Endosulfan II	0.0712	0.00400	"	0.100		71.2	40-140			20	
Endosulfan sulfate	0.0705	0.00400	"	0.100		70.5	40-140			20	
Endrin	0.0705	0.00400	"	0.100		70.5	40-140			20	
Endrin aldehyde	0.0759	0.0100	"	0.100		75.9	40-140			20	
Endrin ketone	0.0856	0.0100	"	0.100		85.6	40-140			20	
gamma-BHC (Lindane)	0.0615	0.00400	"	0.100		61.5	40-140			20	
gamma-Chlordane	0.0589	0.0100	"	0.100		58.9	40-140			20	
Heptachlor	0.0590	0.00400	"	0.100		59.0	40-140			20	
Heptachlor epoxide	0.0598	0.00400	"	0.100		59.8	40-140			20	
Methoxychlor	0.0878	0.00400	"	0.100		87.8	40-140			20	
Surrogate: Decachlorobiphenyl	*0.103*		*"*	*0.200*		*51.6*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0734*		*"*	*0.200*		*36.7*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50644 - EPA SW846-3510C Low Level											
LCS Dup (BC50644-BSD1) LCS Dup							Prepared & Analyzed: 03/10/2025				
4,4'-DDD	0.0653	0.00400	ug/L	0.100		65.3	40-140		7.78	20	
4,4'-DDE	0.0530	0.00400	"	0.100		53.0	40-140		12.2	20	
4,4'-DDT	0.0745	0.00400	"	0.100		74.5	40-140		8.50	20	
Aldrin	0.0386	0.00400	"	0.100		38.6	40-140	Low Bias	18.7	20	
alpha-BHC	0.0527	0.00400	"	0.100		52.7	40-140		5.92	20	
alpha-Chlordane	0.0494	0.00400	"	0.100		49.4	40-140		10.1	20	
beta-BHC	0.0637	0.00400	"	0.100		63.7	40-140		7.11	20	
delta-BHC	0.0457	0.00400	"	0.100		45.7	40-140		6.35	20	
Dieldrin	0.0569	0.00200	"	0.100		56.9	40-140		8.41	20	
Endosulfan I	0.0556	0.00400	"	0.100		55.6	40-140		9.77	20	
Endosulfan II	0.0656	0.00400	"	0.100		65.6	40-140		8.14	20	
Endosulfan sulfate	0.0645	0.00400	"	0.100		64.5	40-140		8.79	20	
Endrin	0.0650	0.00400	"	0.100		65.0	40-140		8.12	20	
Endrin aldehyde	0.0719	0.0100	"	0.100		71.9	40-140		5.52	20	
Endrin ketone	0.0777	0.0100	"	0.100		77.7	40-140		9.61	20	
gamma-BHC (Lindane)	0.0581	0.00400	"	0.100		58.1	40-140		5.59	20	
gamma-Chlordane	0.0523	0.0100	"	0.100		52.3	40-140		11.8	20	
Heptachlor	0.0508	0.00400	"	0.100		50.8	40-140		14.9	20	
Heptachlor epoxide	0.0551	0.00400	"	0.100		55.1	40-140		8.28	20	
Methoxychlor	0.0809	0.00400	"	0.100		80.9	40-140		8.19	20	
Surrogate: Decachlorobiphenyl	*0.102*		*"*	*0.200*		*51.1*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0634*		*"*	*0.200*		*31.7*	*30-150*				
Batch BC50869 - EPA 3550C											
Blank (BC50869-BLK1) Blank							Prepared & Analyzed: 03/12/2025				
4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								
Surrogate: Decachlorobiphenyl	*0.0411*		*"*	*0.0664*		*61.9*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0394*		*"*	*0.0664*		*59.3*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50869 - EPA 3550C											
LCS (BC50869-BS1) LCS							Prepared & Analyzed: 03/12/2025				
4,4'-DDD	0.0237	0.00164	mg/kg wet	0.0332		71.2	40-140				
4,4'-DDE	0.0204	0.00164	"	0.0332		61.3	40-140				
4,4'-DDT	0.0193	0.00164	"	0.0332		58.1	40-140				
Aldrin	0.0214	0.00164	"	0.0332		64.5	40-140				
alpha-BHC	0.0256	0.00164	"	0.0332		77.1	40-140				
alpha-Chlordane	0.0209	0.00164	"	0.0332		62.9	40-140				
beta-BHC	0.0258	0.00164	"	0.0332		77.6	40-140				
delta-BHC	0.0204	0.00164	"	0.0332		61.4	40-140				
Dieldrin	0.0207	0.00164	"	0.0332		62.4	40-140				
Endosulfan I	0.0215	0.00164	"	0.0332		64.8	40-140				
Endosulfan II	0.0236	0.00164	"	0.0332		71.0	40-140				
Endosulfan sulfate	0.0236	0.00164	"	0.0332		70.9	40-140				
Endrin	0.0211	0.00164	"	0.0332		63.4	40-140				
Endrin aldehyde	0.0265	0.00164	"	0.0332		79.8	40-140				
Endrin ketone	0.0264	0.00164	"	0.0332		79.5	40-140				
gamma-BHC (Lindane)	0.0255	0.00164	"	0.0332		76.8	40-140				
gamma-Chlordane	0.0210	0.00164	"	0.0332		63.3	40-140				
Heptachlor	0.0237	0.00164	"	0.0332		71.3	40-140				
Heptachlor epoxide	0.0216	0.00164	"	0.0332		65.2	40-140				
Methoxychlor	0.0251	0.00164	"	0.0332		75.4	40-140				
Surrogate: Decachlorobiphenyl	*0.0388*		*"*	*0.0664*		*58.3*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0382*		*"*	*0.0664*		*57.5*	*30-150*				
Matrix Spike (BC50869-MS1) Matrix Spike *Source sample: 25C0261-09 (SB26_5-7)							Prepared & Analyzed: 03/12/2025				
4,4'-DDD	0.0245	0.00180	mg/kg dry	0.0365	ND	67.2	30-150				
4,4'-DDE	0.0181	0.00180	"	0.0365	ND	49.7	30-150				
4,4'-DDT	0.0219	0.00180	"	0.0365	ND	60.2	30-150				
Aldrin	0.0216	0.00180	"	0.0365	ND	59.2	30-150				
alpha-BHC	0.0387	0.00180	"	0.0365	ND	106	30-150				
alpha-Chlordane	0.0177	0.00180	"	0.0365	ND	48.5	30-150				
beta-BHC	0.0179	0.00180	"	0.0365	ND	49.1	30-150				
delta-BHC	0.0177	0.00180	"	0.0365	ND	48.5	30-150				
Dieldrin	0.0182	0.00180	"	0.0365	ND	49.8	30-150				
Endosulfan I	0.0181	0.00180	"	0.0365	ND	49.7	30-150				
Endosulfan II	0.0225	0.00180	"	0.0365	ND	61.6	30-150				
Endosulfan sulfate	0.0220	0.00180	"	0.0365	ND	60.2	30-150				
Endrin	0.0204	0.00180	"	0.0365	ND	55.9	30-150				
Endrin aldehyde	0.0254	0.00180	"	0.0365	ND	69.6	30-150				
Endrin ketone	0.0250	0.00180	"	0.0365	ND	68.6	30-150				
gamma-BHC (Lindane)	0.0380	0.00180	"	0.0365	ND	104	30-150				
gamma-Chlordane	0.0179	0.00180	"	0.0365	ND	49.2	30-150				
Heptachlor	0.0249	0.00180	"	0.0365	ND	68.2	30-150				
Heptachlor epoxide	0.0181	0.00180	"	0.0365	ND	49.5	30-150				
Methoxychlor	0.0239	0.00180	"	0.0365	ND	65.5	30-150				
Surrogate: Decachlorobiphenyl	*0.0299*		*"*	*0.0729*		*41.0*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0539*		*"*	*0.0729*		*74.0*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50869 - EPA 3550C											
Matrix Spike Dup (BC50869-M Matrix Spike Dup	*Source sample: 25C0261-09 (SB26_5-7)							Prepared & Analyzed: 03/12/2025			
4,4'-DDD	0.0310	0.00184	mg/kg dry	0.0372	ND	83.4	30-150		23.5	30	
4,4'-DDE	0.0229	0.00184	"	0.0372	ND	61.7	30-150		23.4	30	
4,4'-DDT	0.0243	0.00184	"	0.0372	ND	65.4	30-150		10.4	30	
Aldrin	0.0260	0.00184	"	0.0372	ND	69.8	30-150		18.4	30	
alpha-BHC	0.0320	0.00184	"	0.0372	ND	86.1	30-150		18.8	30	
alpha-Chlordane	0.0219	0.00184	"	0.0372	ND	58.8	30-150		21.2	30	
beta-BHC	0.0250	0.00184	"	0.0372	ND	67.2	30-150		33.0	30	Non-dir.
delta-BHC	0.0236	0.00184	"	0.0372	ND	63.6	30-150		28.8	30	
Dieldrin	0.0229	0.00184	"	0.0372	ND	61.6	30-150		23.1	30	
Endosulfan I	0.0225	0.00184	"	0.0372	ND	60.6	30-150		21.6	30	
Endosulfan II	0.0289	0.00184	"	0.0372	ND	77.8	30-150		25.2	30	
Endosulfan sulfate	0.0285	0.00184	"	0.0372	ND	76.6	30-150		25.9	30	
Endrin	0.0254	0.00184	"	0.0372	ND	68.3	30-150		21.9	30	
Endrin aldehyde	0.0309	0.00184	"	0.0372	ND	83.0	30-150		19.5	30	
Endrin ketone	0.0311	0.00184	"	0.0372	ND	83.6	30-150		21.7	30	
gamma-BHC (Lindane)	0.0323	0.00184	"	0.0372	ND	86.9	30-150		16.2	30	
gamma-Chlordane	0.0218	0.00184	"	0.0372	ND	58.8	30-150		19.7	30	
Heptachlor	0.0240	0.00184	"	0.0372	ND	64.6	30-150		3.46	30	
Heptachlor epoxide	0.0213	0.00184	"	0.0372	ND	57.4	30-150		16.6	30	
Methoxychlor	0.0317	0.00184	"	0.0372	ND	85.4	30-150		28.3	30	
Surrogate: Decachlorobiphenyl	*0.0331*		*"*	*0.0744*		*44.5*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0401*		*"*	*0.0744*		*53.9*	*30-150*				
Batch BC50955 - EPA 3550C											
Blank (BC50955-BLK1) Blank								Prepared & Analyzed: 03/13/2025			
4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								
Surrogate: Decachlorobiphenyl	*0.0513*		*"*	*0.0664*		*77.1*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0515*		*"*	*0.0664*		*77.4*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50955 - EPA 3550C											
LCS (BC50955-BS1) LCS							Prepared & Analyzed: 03/13/2025				
4,4'-DDD	0.0160	0.000329	mg/kg wet	0.0332		48.2	40-140				
4,4'-DDE	0.0161	0.000329	"	0.0332		48.6	40-140				
4,4'-DDT	0.0155	0.000329	"	0.0332		46.8	40-140				
Aldrin	0.0156	0.000329	"	0.0332		47.1	40-140				
alpha-BHC	0.0167	0.000329	"	0.0332		50.2	40-140				
alpha-Chlordane	0.0160	0.000329	"	0.0332		48.3	40-140				
beta-BHC	0.0161	0.000329	"	0.0332		48.3	40-140				
delta-BHC	0.0134	0.000329	"	0.0332		40.3	40-140				
Dieldrin	0.0160	0.000329	"	0.0332		48.1	40-140				
Endosulfan I	0.0163	0.000329	"	0.0332		49.0	40-140				
Endosulfan II	0.0169	0.000329	"	0.0332		51.0	40-140				
Endosulfan sulfate	0.0149	0.000329	"	0.0332		45.0	40-140				
Endrin	0.0163	0.000329	"	0.0332		49.1	40-140				
Endrin aldehyde	0.0176	0.000329	"	0.0332		52.9	40-140				
Endrin ketone	0.0164	0.000329	"	0.0332		49.3	40-140				
gamma-BHC (Lindane)	0.0164	0.000329	"	0.0332		49.4	40-140				
gamma-Chlordane	0.0159	0.000329	"	0.0332		47.7	40-140				
Heptachlor	0.0162	0.000329	"	0.0332		48.8	40-140				
Heptachlor epoxide	0.0157	0.000329	"	0.0332		47.4	40-140				
Methoxychlor	0.0160	0.000329	"	0.0332		48.2	40-140				
Surrogate: Decachlorobiphenyl	*0.0241*		*"*	*0.0664*		*36.3*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0217*		*"*	*0.0664*		*32.7*	*30-150*				
Matrix Spike (BC50955-MS1) Matrix Spike *Source sample: 25C0261-11 (SB27_5-7)							Prepared & Analyzed: 03/13/2025				
4,4'-DDD	0.0353	0.00220	mg/kg dry	0.0445	ND	79.3	30-150				
4,4'-DDE	0.0345	0.00220	"	0.0445	ND	77.5	30-150				
4,4'-DDT	0.0383	0.00220	"	0.0445	ND	86.2	30-150				
Aldrin	0.0374	0.00220	"	0.0445	ND	84.1	30-150				
alpha-BHC	0.0386	0.00220	"	0.0445	ND	86.8	30-150				
alpha-Chlordane	0.0359	0.00220	"	0.0445	ND	80.8	30-150				
beta-BHC	0.0427	0.00220	"	0.0445	ND	96.1	30-150				
delta-BHC	0.0328	0.00220	"	0.0445	ND	73.6	30-150				
Dieldrin	0.0364	0.00220	"	0.0445	ND	81.8	30-150				
Endosulfan I	0.0367	0.00220	"	0.0445	ND	82.6	30-150				
Endosulfan II	0.0391	0.00220	"	0.0445	ND	87.8	30-150				
Endosulfan sulfate	0.0364	0.00220	"	0.0445	ND	81.8	30-150				
Endrin	0.0381	0.00220	"	0.0445	ND	85.6	30-150				
Endrin aldehyde	0.0430	0.00220	"	0.0445	ND	96.6	30-150				
Endrin ketone	0.0378	0.00220	"	0.0445	ND	85.0	30-150				
gamma-BHC (Lindane)	0.0361	0.00220	"	0.0445	ND	81.2	30-150				
gamma-Chlordane	0.0340	0.00220	"	0.0445	ND	76.5	30-150				
Heptachlor	0.0427	0.00220	"	0.0445	ND	96.0	30-150				
Heptachlor epoxide	0.0367	0.00220	"	0.0445	ND	82.5	30-150				
Methoxychlor	0.0406	0.00220	"	0.0445	ND	91.4	30-150				
Surrogate: Decachlorobiphenyl	*0.0626*		*"*	*0.0890*		*70.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0669*		*"*	*0.0890*		*75.2*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50955 - EPA 3550C											
Matrix Spike Dup (BC50955-M Matrix Spike Dup	*Source sample: 25C0261-11 (SB27_5-7)							Prepared & Analyzed: 03/13/2025			
4,4'-DDD	0.0377	0.00220	mg/kg dry	0.0445	ND	84.8	30-150		6.66	30	
4,4'-DDE	0.0348	0.00220	"	0.0445	ND	78.2	30-150		0.906	30	
4,4'-DDT	0.0371	0.00220	"	0.0445	ND	83.4	30-150		3.26	30	
Aldrin	0.0356	0.00220	"	0.0445	ND	79.9	30-150		5.03	30	
alpha-BHC	0.0361	0.00220	"	0.0445	ND	81.3	30-150		6.59	30	
alpha-Chlordane	0.0350	0.00220	"	0.0445	ND	78.8	30-150		2.50	30	
beta-BHC	0.0394	0.00220	"	0.0445	ND	88.6	30-150		8.10	30	
delta-BHC	0.0323	0.00220	"	0.0445	ND	72.5	30-150		1.48	30	
Dieldrin	0.0361	0.00220	"	0.0445	ND	81.3	30-150		0.638	30	
Endosulfan I	0.0361	0.00220	"	0.0445	ND	81.2	30-150		1.60	30	
Endosulfan II	0.0397	0.00220	"	0.0445	ND	89.3	30-150		1.68	30	
Endosulfan sulfate	0.0373	0.00220	"	0.0445	ND	83.8	30-150		2.38	30	
Endrin	0.0379	0.00220	"	0.0445	ND	85.2	30-150		0.445	30	
Endrin aldehyde	0.0442	0.00220	"	0.0445	ND	99.4	30-150		2.88	30	
Endrin ketone	0.0385	0.00220	"	0.0445	ND	86.5	30-150		1.74	30	
gamma-BHC (Lindane)	0.0349	0.00220	"	0.0445	ND	78.4	30-150		3.52	30	
gamma-Chlordane	0.0339	0.00220	"	0.0445	ND	76.2	30-150		0.413	30	
Heptachlor	0.0398	0.00220	"	0.0445	ND	89.6	30-150		6.89	30	
Heptachlor epoxide	0.0356	0.00220	"	0.0445	ND	80.0	30-150		3.17	30	
Methoxychlor	0.0393	0.00220	"	0.0445	ND	88.5	30-150		3.25	30	
Surrogate: Decachlorobiphenyl	*0.0439*		*"*	*0.0890*		*49.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0641*		*"*	*0.0890*		*72.1*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50548 - EPA SW846-3510C Low Level											
Blank (BC50548-BLK1) Blank							Prepared & Analyzed: 03/07/2025				
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.0890*		*"*	*0.200*		*44.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.122*		*"*	*0.200*		*61.0*	*30-120*				
LCS (BC50548-BS2) LCS							Prepared & Analyzed: 03/07/2025				
Aroclor 1016	0.594	0.0500	ug/L	1.00		59.4	40-120				
Aroclor 1260	0.476	0.0500	"	1.00		47.6	40-120				
Surrogate: Tetrachloro-m-xylene	*0.0700*		*"*	*0.200*		*35.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0790*		*"*	*0.200*		*39.5*	*30-120*				
Batch BC50867 - EPA 3550C											
Blank (BC50867-BLK1) Blank							Prepared: 03/12/2025 Analyzed: 03/13/2025				
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	*0.0435*		*"*	*0.0664*		*65.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0316*		*"*	*0.0664*		*47.5*	*30-120*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50867 - EPA 3550C											
LCS (BC50867-BS2) LCS							Prepared: 03/12/2025 Analyzed: 03/13/2025				
Aroclor 1016	0.241	0.0166	mg/kg wet	0.332		72.6	40-130				
Aroclor 1260	0.242	0.0166	"	0.332		72.9	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0372*		*"*	*0.0664*		*56.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0296*		*"*	*0.0664*		*44.5*	*30-120*				
Batch BC50952 - EPA 3550C											
Blank (BC50952-BLK1) Blank							Prepared & Analyzed: 03/13/2025				
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	*0.0385*		*"*	*0.0664*		*58.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0292*		*"*	*0.0664*		*44.0*	*30-120*				
LCS (BC50952-BS2) LCS							Prepared & Analyzed: 03/13/2025				
Aroclor 1016	0.244	0.0166	mg/kg wet	0.332		73.4	40-130				
Aroclor 1260	0.242	0.0166	"	0.332		72.7	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0395*		*"*	*0.0664*		*59.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0309*		*"*	*0.0664*		*46.5*	*30-120*				
Matrix Spike (BC50952-MS2) Matrix Spike *Source sample: 25C0261-11 (SB27_5-7)							Prepared & Analyzed: 03/13/2025				
Aroclor 1016	0.0970	0.0222	mg/kg dry	0.445	ND	21.8	40-140	Low Bias			
Aroclor 1260	0.183	0.0222	"	0.445	ND	41.2	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0454*		*"*	*0.0890*		*51.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0347*		*"*	*0.0890*		*39.0*	*30-120*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50952 - EPA 3550C											
Matrix Spike Dup (BC50952-M Matrix Spike Dup	*Source sample: 25C0261-11 (SB27_5-7)							Prepared & Analyzed: 03/13/2025			
Aroclor 1016	0.0913	0.0222	mg/kg dry	0.445	ND	20.5	40-140	Low Bias	6.05	50	
Aroclor 1260	0.174	0.0222	"	0.445	ND	39.1	40-140	Low Bias	5.28	50	
Surrogate: Tetrachloro-m-xylene	*0.0409*		*"*	*0.0890*		*46.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0320*		*"*	*0.0890*		*36.0*	*30-120*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50648 - EPA 8151A											
Blank (BC50648-BLK1) Blank							Prepared & Analyzed: 03/10/2025				
2,4,5-T	ND	5.00	ug/L								
2,4,5-TP (Silvex)	ND	5.00	"								
2,4-D	ND	5.00	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*64.5*		*"*	*125*		*51.6*	*30-150*				
LCS (BC50648-BS1) LCS							Prepared & Analyzed: 03/10/2025				
2,4,5-T	18.8	5.00	ug/L	20.0		93.8	10-140				
2,4,5-TP (Silvex)	17.8	5.00	"	20.0		88.8	10-139				
2,4-D	17.8	5.00	"	20.0		88.8	10-140				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*109*		*"*	*125*		*87.0*	*30-150*				
LCS Dup (BC50648-BSD1) LCS Dup							Prepared & Analyzed: 03/10/2025				
2,4,5-T	19.8	5.00	ug/L	20.0		98.8	10-140		5.19	30	
2,4,5-TP (Silvex)	18.5	5.00	"	20.0		92.5	10-139		4.14	30	
2,4-D	18.2	5.00	"	20.0		91.2	10-140		2.78	30	
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*107*		*"*	*125*		*85.6*	*30-150*				
Batch BC50765 - EPA 3550C/8151A											
Blank (BC50765-BLK1) Blank							Prepared: 03/11/2025 Analyzed: 03/12/2025				
2,4,5-T	ND	0.0199	mg/kg wet								
2,4,5-TP (Silvex)	ND	0.0199	"								
2,4-D	ND	0.0199	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.407*		*"*	*0.415*		*98.0*	*21-150*				
LCS (BC50765-BS1) LCS							Prepared: 03/11/2025 Analyzed: 03/12/2025				
2,4,5-T	0.0731	0.0199	mg/kg wet	0.0664		110	10-120				
2,4,5-TP (Silvex)	0.0681	0.0199	"	0.0664		102	10-120				
2,4-D	0.0648	0.0199	"	0.0664		97.5	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.374*		*"*	*0.415*		*90.0*	*21-150*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50866 - EPA 3550C/8151A											
Blank (BC50866-BLK1) Blank								Prepared: 03/12/2025 Analyzed: 03/13/2025			
2,4,5-T	ND	0.0199	mg/kg wet								
2,4,5-TP (Silvex)	ND	0.0199	"								
2,4-D	ND	0.0199	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.360*		*"*	*0.415*		*86.8*	*21-150*				
LCS (BC50866-BS1) LCS								Prepared: 03/12/2025 Analyzed: 03/13/2025			
2,4,5-T	0.0598	0.0199	mg/kg wet	0.0664		90.0	10-120				
2,4,5-TP (Silvex)	0.0714	0.0199	"	0.0664		108	10-120				
2,4-D	0.0590	0.0199	"	0.0664		88.8	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.447*		*"*	*0.415*		*108*	*21-150*				
Matrix Spike (BC50866-MS1) Matrix Spike *Source sample: 25C0261-11 (SB27_5-7)								Prepared: 03/12/2025 Analyzed: 03/13/2025			
2,4,5-T	0.0856	0.0267	mg/kg dry	0.0890	ND	96.2	10-120				
2,4,5-TP (Silvex)	0.0801	0.0267	"	0.0890	ND	90.0	10-120				
2,4-D	0.118	0.0267	"	0.0890	ND	132	10-118	High Bias			
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.556*		*"*	*0.556*		*100*	*21-150*				
Matrix Spike Dup (BC50866-! Matrix Spike Dup *Source sample: 25C0261-11 (SB27_5-7)								Prepared: 03/12/2025 Analyzed: 03/13/2025			
2,4,5-T	0.0979	0.0267	mg/kg dry	0.0890	ND	110	10-120		13.3	35	
2,4,5-TP (Silvex)	0.0878	0.0267	"	0.0890	ND	98.8	10-120		9.27	35	
2,4-D	0.130	0.0267	"	0.0890	ND	146	10-118	High Bias	9.87	35	
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.516*		*"*	*0.556*		*92.8*	*21-150*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50647 - EPA 3015A											
Blank (BC50647-BLK1) Blank								Prepared & Analyzed: 03/10/2025			
Aluminum	ND	0.0556	mg/L								
Barium	ND	0.0278	"								
Calcium	ND	0.0556	"								
Chromium	ND	0.00556	"								
Cobalt	ND	0.00444	"								
Copper	ND	0.0222	"								
Iron	ND	0.278	"								
Lead	ND	0.00556	"								
Magnesium	ND	0.0556	"								
Manganese	ND	0.00556	"								
Nickel	ND	0.0111	"								
Potassium	ND	0.0556	"								
Silver	ND	0.00556	"								
Sodium	ND	0.556	"								
Vanadium	ND	0.0111	"								
Zinc	ND	0.0278	"								
LCS (BC50647-BS1) LCS								Prepared & Analyzed: 03/10/2025			
Aluminum	1.79		ug/mL	2.00		89.3	80-120				
Barium	1.95		"	2.00		97.4	80-120				
Calcium	1.06		"	1.00		106	80-120				
Chromium	0.197		"	0.200		98.4	80-120				
Cobalt	0.488		"	0.500		97.7	80-120				
Copper	0.245		"	0.250		98.0	80-120				
Iron	0.921		"	1.00		92.1	80-120				
Lead	0.476		"	0.500		95.3	80-120				
Magnesium	0.947		"	1.00		94.7	80-120				
Manganese	0.492		"	0.500		98.4	80-120				
Nickel	0.488		"	0.500		97.5	80-120				
Potassium	0.966		"	1.00		96.6	80-120				
Silver	0.0459		"	0.0500		91.8	80-120				
Sodium	1.03		"	1.00		103	80-120				
Vanadium	0.475		"	0.500		95.0	80-120				
Zinc	0.478		"	0.500		95.5	80-120				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50700 - EPA 3050B											
Blank (BC50700-BLK1) Blank								Prepared: 03/10/2025 Analyzed: 03/11/2025			
Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	ND	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	ND	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	1.67	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								
Duplicate (BC50700-DUP1) Duplicate *Source sample: 25C0261-06 (SB25_0-2)								Prepared: 03/10/2025 Analyzed: 03/11/2025			
Aluminum	9370	4.65	mg/kg dry		8580				8.72	35	
Antimony	ND	2.33	"		ND					35	
Arsenic	3.45	1.40	"		4.34				22.7	35	
Barium	72.3	2.32	"		70.3				2.79	35	
Beryllium	0.340	0.047	"		0.342				0.546	35	
Cadmium	ND	0.279	"		ND					35	
Calcium	11700	4.65	"		9490				20.9	35	
Chromium	28.8	0.466	"		22.2				25.6	35	
Cobalt	7.87	0.372	"		11.0				32.8	35	
Copper	30.0	1.86	"		29.7				0.842	35	
Iron	16500	23.3	"		22000				28.7	35	
Lead	76.3	0.466	"		66.8				13.3	35	
Magnesium	4210	4.66	"		3100				30.3	35	
Manganese	295	0.466	"		404				31.1	35	
Nickel	22.8	0.927	"		25.1				9.39	35	
Potassium	1480	4.66	"		1380				6.88	35	
Selenium	ND	2.33	"		ND					35	
Silver	ND	0.469	"		ND					35	
Sodium	359	46.5	"		326				9.37	35	
Thallium	ND	1.87	"		ND					35	
Vanadium	32.0	0.927	"		27.9				13.8	35	
Zinc	73.7	2.32	"		141				62.9	35	Non-dir.

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50700 - EPA 3050B											
Matrix Spike (BC50700-MS1) Matrix Spike	*Source sample: 25C0261-06 (SB25_0-2)							Prepared: 03/10/2025 Analyzed: 03/11/2025			
Aluminum	10500	4.65	mg/kg dry	186	8580	NR	75-125	High Bias			
Antimony	8.75	2.33	"	23.3	ND	37.6	75-125	Low Bias			
Arsenic	188	1.40	"	186	4.34	98.4	75-125				
Barium	293	2.32	"	186	70.3	120	75-125				
Beryllium	5.56	0.047	"	4.65	0.342	112	75-125				
Cadmium	4.75	0.279	"	4.65	ND	102	75-125				
Calcium	12700	4.65	"	93.1	9490	NR	75-125	High Bias			
Chromium	47.8	0.466	"	18.6	22.2	137	75-125	High Bias			
Cobalt	55.0	0.372	"	46.5	11.0	94.5	75-125				
Copper	136	1.86	"	23.3	29.7	459	75-125	High Bias			
Iron	18000	23.3	"	93.1	22000	NR	75-125	Low Bias			
Lead	207	0.466	"	46.5	66.8	300	75-125	High Bias			
Magnesium	4710	4.66	"	93.1	3100	NR	75-125	High Bias			
Manganese	370	0.466	"	46.5	404	NR	75-125	Low Bias			
Nickel	93.0	0.927	"	46.5	25.1	146	75-125	High Bias			
Potassium	1760	4.66	"	93.1	1380	408	75-125	High Bias			
Selenium	179	2.33	"	186	ND	95.9	75-125				
Silver	4.80	0.469	"	4.65	ND	103	75-125				
Sodium	563	46.5	"	93.1	326	254	75-125	High Bias			
Thallium	177	1.87	"	186	ND	95.2	75-125				
Vanadium	80.5	0.927	"	46.5	27.9	113	75-125				
Zinc	316	2.32	"	46.5	141	376	75-125	High Bias			
Post Spike (BC50700-PS1) Post Spike	*Source sample: 25C0261-06 (SB25_0-2)							Prepared: 03/10/2025 Analyzed: 03/11/2025			
Aluminum	92.4		ug/mL	2.00	92.2	9.16	75-125	Low Bias			
Antimony	0.237		"	0.250	-0.006	94.8	75-125				
Arsenic	1.92		"	2.00	0.047	93.8	75-125				
Barium	2.65		"	2.00	0.755	94.9	75-125				
Beryllium	0.051		"	0.0500	0.004	94.1	75-125				
Cadmium	0.048		"	0.0500	0.002	90.8	75-125				
Calcium	101		"	1.00	102	NR	75-125	Low Bias			
Chromium	0.422		"	0.200	0.239	91.7	75-125				
Cobalt	0.588		"	0.500	0.118	94.1	75-125				
Copper	0.568		"	0.250	0.320	99.6	75-125				
Iron	234		"	1.00	237	NR	75-125	Low Bias			
Lead	1.16		"	0.500	0.718	87.7	75-125				
Magnesium	33.6		"	1.00	33.3	27.2	75-125	Low Bias			
Manganese	4.72		"	0.500	4.34	76.2	75-125				
Nickel	0.734		"	0.500	0.270	92.8	75-125				
Potassium	15.5		"	1.00	14.8	64.0	75-125	Low Bias			
Selenium	1.83		"	2.00	-0.001	91.5	75-125				
Silver	0.050		"	0.0500	-0.0002	99.6	75-125				
Sodium	4.40		"	1.00	3.51	88.8	75-125				
Thallium	1.81		"	2.00	-0.005	90.4	75-125				
Vanadium	0.770		"	0.500	0.300	94.2	75-125				
Zinc	1.95		"	0.500	1.52	85.8	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50700 - EPA 3050B											
Reference (BC50700-SRM1) Reference								Prepared: 03/10/2025 Analyzed: 03/11/2025			
Aluminum	7510	4.17	mg/kg wet	7680		97.8	47.4-130.2				
Antimony	53.4	2.08	"	201		26.6	0-100				
Arsenic	139	1.25	"	181		77.0	66.3-98				
Barium	222	2.08	"	211		105	73.9-107.1				
Beryllium	226	0.042	"	270		83.8	73-104.4				
Cadmium	172	0.250	"	221		77.7	70.6-101.8				
Calcium	3860	4.17	"	4280		90.1	77.3-111				
Chromium	125	0.417	"	149		84.1	71.8-105.4				
Cobalt	123	0.333	"	142		86.4	73.2-104.2				
Copper	235	1.67	"	264		88.9	73.5-104.2				
Iron	7030	20.8	"	7360		95.5	55.4-130.3				
Lead	90.6	0.417	"	106		85.5	76.1-109.4				
Magnesium	2020	4.17	"	2170		93.2	68.7-112				
Manganese	240	0.417	"	270		89.1	73-107.8				
Nickel	147	0.830	"	177		83.3	71.8-103.4				
Potassium	2140	4.17	"	2340		91.5	62.8-113.7				
Selenium	112	2.08	"	139		80.9	70-107.9				
Silver	53.1	0.420	"	59.9		88.6	72.8-110.7				
Sodium	269	41.7	"	306		87.9	66-113.4				
Thallium	169	1.67	"	205		82.3	71.7-106.8				
Vanadium	132	0.830	"	155		85.1	69-107.7				
Zinc	324	2.08	"	389		83.4	70.4-106.9				
Batch BC50702 - EPA 3050B											
Blank (BC50702-BLK1) Blank								Prepared: 03/10/2025 Analyzed: 03/11/2025			
Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	ND	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	ND	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	1.67	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50702 - EPA 3050B											
Duplicate (BC50702-DUP1) Duplicate	*Source sample: 25C0261-11 (SB27_5-7)								Prepared: 03/10/2025 Analyzed: 03/11/2025		
Aluminum	16400	5.58	mg/kg dry		18900				13.9	35	
Antimony	ND	2.79	"		ND					35	
Arsenic	7.20	1.67	"		10.2				34.7	35	
Barium	97.8	2.78	"		810				157	35	Non-dir.
Beryllium	0.460	0.056	"		0.397				14.6	35	
Cadmium	ND	0.335	"		ND					35	
Calcium	2130	5.58	"		2110				1.06	35	
Chromium	44.5	0.558	"		70.6				45.2	35	Non-dir.
Cobalt	7.77	0.446	"		11.3				36.7	35	Non-dir.
Copper	30.2	2.23	"		32.3				6.68	35	
Iron	23600	27.9	"		33300				34.0	35	
Lead	46.6	0.558	"		1130				184	35	Non-dir.
Magnesium	5520	5.58	"		6570				17.2	35	
Manganese	197	0.558	"		205				4.09	35	
Nickel	28.6	1.11	"		70.8				84.9	35	Non-dir.
Potassium	4580	5.58	"		4600				0.454	35	
Selenium	ND	2.79	"		ND					35	
Silver	ND	0.562	"		ND					35	
Sodium	216	55.8	"		243				11.8	35	
Thallium	ND	2.24	"		ND					35	
Vanadium	38.4	1.11	"		53.7				33.1	35	
Zinc	44.5	2.78	"		132				98.9	35	Non-dir.
Matrix Spike (BC50702-MS1) Matrix Spike	*Source sample: 25C0261-11 (SB27_5-7)								Prepared: 03/10/2025 Analyzed: 03/11/2025		
Aluminum	19000	5.58	mg/kg dry	223	18900	31.5	75-125	Low Bias			
Antimony	5.67	2.79	"	27.9	ND	20.3	75-125	Low Bias			
Arsenic	222	1.67	"	223	10.2	95.1	75-125				
Barium	320	2.78	"	223	810	NR	75-125	Low Bias			
Beryllium	5.73	0.056	"	5.58	0.397	95.7	75-125				
Cadmium	5.25	0.335	"	5.58	ND	94.2	75-125				
Calcium	1970	5.58	"	112	2110	NR	75-125	Low Bias			
Chromium	83.9	0.558	"	22.3	70.6	59.6	75-125	Low Bias			
Cobalt	62.5	0.446	"	55.8	11.3	91.9	75-125				
Copper	54.2	2.23	"	27.9	32.3	78.5	75-125				
Iron	28000	27.9	"	112	33300	NR	75-125	Low Bias			
Lead	250	0.558	"	55.8	1130	NR	75-125	Low Bias			
Magnesium	7090	5.58	"	112	6570	473	75-125	High Bias			
Manganese	267	0.558	"	55.8	205	112	75-125				
Nickel	99.7	1.11	"	55.8	70.8	51.9	75-125	Low Bias			
Potassium	4970	5.58	"	112	4600	335	75-125	High Bias			
Selenium	217	2.79	"	223	ND	97.1	75-125				
Silver	5.37	0.562	"	5.58	ND	96.2	75-125				
Sodium	318	55.8	"	112	243	66.5	75-125	Low Bias			
Thallium	208	2.24	"	223	ND	93.2	75-125				
Vanadium	99.0	1.11	"	55.8	53.7	81.3	75-125				
Zinc	103	2.78	"	55.8	132	NR	75-125	Low Bias			

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50702 - EPA 3050B											
Post Spike (BC50702-PS1) Post Spike *Source sample: 25C0261-11 (SB27_5-7)								Prepared: 03/10/2025 Analyzed: 03/11/2025			
Aluminum	169		ug/mL	2.00	169	NR	75-125	Low Bias			
Antimony	0.243		"	0.250	-0.006	97.2	75-125				
Arsenic	2.01		"	2.00	0.092	95.9	75-125				
Barium	9.07		"	2.00	7.26	90.7	75-125				
Beryllium	0.051		"	0.0500	0.004	93.9	75-125				
Cadmium	0.046		"	0.0500	0.0002	92.0	75-125				
Calcium	19.4		"	1.00	18.9	45.4	75-125	Low Bias			
Chromium	0.815		"	0.200	0.632	91.5	75-125				
Cobalt	0.575		"	0.500	0.101	94.8	75-125				
Copper	0.543		"	0.250	0.289	101	75-125				
Iron	295		"	1.00	298	NR	75-125	Low Bias			
Lead	10.5		"	0.500	10.1	65.0	75-125	Low Bias			
Magnesium	58.3		"	1.00	58.8	NR	75-125	Low Bias			
Manganese	2.28		"	0.500	1.84	88.3	75-125				
Nickel	1.10		"	0.500	0.634	92.4	75-125				
Potassium	40.8		"	1.00	41.2	NR	75-125	Low Bias			
Selenium	1.89		"	2.00	-0.002	94.7	75-125				
Silver	0.051		"	0.0500	0.0004	100	75-125				
Sodium	3.06		"	1.00	2.18	88.0	75-125				
Thallium	1.82		"	2.00	-0.009	91.2	75-125				
Vanadium	0.956		"	0.500	0.481	95.0	75-125				
Zinc	1.62		"	0.500	1.18	89.1	75-125				
Reference (BC50702-SRM1) Reference								Prepared: 03/10/2025 Analyzed: 03/11/2025			
Aluminum	7640	4.17	mg/kg wet	7680		99.4	47.4-130.2				
Antimony	47.5	2.08	"	201		23.6	0-100				
Arsenic	144	1.25	"	181		79.5	66.3-98				
Barium	179	2.08	"	211		84.8	73.9-107.1				
Beryllium	230	0.042	"	270		85.2	73-104.4				
Cadmium	174	0.250	"	221		78.6	70.6-101.8				
Calcium	3870	4.17	"	4280		90.3	77.3-111				
Chromium	129	0.417	"	149		86.6	71.8-105.4				
Cobalt	125	0.333	"	142		88.1	73.2-104.2				
Copper	238	1.67	"	264		90.1	73.5-104.2				
Iron	6900	20.8	"	7360		93.7	55.4-130.3				
Lead	90.0	0.417	"	106		84.9	76.1-109.4				
Magnesium	2000	4.17	"	2170		92.0	68.7-112				
Manganese	230	0.417	"	270		85.1	73-107.8				
Nickel	151	0.830	"	177		85.5	71.8-103.4				
Potassium	2120	4.17	"	2340		90.7	62.8-113.7				
Selenium	122	2.08	"	139		87.6	70-107.9				
Silver	41.3	0.420	"	59.9		68.9	72.8-110.7	Low Bias			
Sodium	269	41.7	"	306		87.9	66-113.4				
Thallium	167	1.67	"	205		81.3	71.7-106.8				
Vanadium	133	0.830	"	155		85.8	69-107.7				
Zinc	331	2.08	"	389		85.1	70.4-106.9				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50651 - EPA 3015A											
Blank (BC50651-BLK1) Blank								Prepared & Analyzed: 03/10/2025			
Antimony	ND	1.11	ug/L								
Arsenic	ND	1.11	"								
Beryllium	ND	0.333	"								
Cadmium	ND	0.556	"								
Selenium	ND	1.11	"								
Thallium	ND	1.11	"								
LCS (BC50651-BS1) LCS								Prepared & Analyzed: 03/10/2025			
Antimony	48.2		ug/L	50.0		96.5	80-120				
Arsenic	49.7		"	50.0		99.4	80-120				
Beryllium	51.2		"	50.0		102	80-120				
Cadmium	49.0		"	50.0		97.9	80-120				
Selenium	50.9		"	50.0		102	80-120				
Thallium	48.6		"	50.0		97.3	80-120				
Duplicate (BC50651-DUP1) Duplicate *Source sample: 25C0261-01 (SOFB03_030525)								Prepared: 03/10/2025 Analyzed: 03/11/2025			
Antimony	ND	1.11	ug/L		ND					20	
Arsenic	ND	1.11	"		ND					20	
Beryllium	ND	0.333	"		ND					20	
Cadmium	ND	0.556	"		ND					20	
Selenium	ND	1.11	"		ND					20	
Thallium	ND	1.11	"		ND					20	
Matrix Spike (BC50651-MS1) Matrix Spike *Source sample: 25C0261-01 (SOFB03_030525)								Prepared: 03/10/2025 Analyzed: 03/11/2025			
Antimony	51.4		ug/L	50.0	-0.117	103	75-125				
Arsenic	49.1		"	50.0	0.132	97.9	75-125				
Beryllium	52.7		"	50.0	0.002	105	75-125				
Cadmium	46.7		"	50.0	0.002	93.4	75-125				
Selenium	44.7		"	50.0	0.792	87.8	75-125				
Thallium	47.1		"	50.0	-0.001	94.3	75-125				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50586 - EPA 7473 soil												
Blank (BC50586-BLK1)	Blank								Prepared: 03/08/2025 Analyzed: 03/10/2025			
Mercury		ND	0.0300	mg/kg wet								
Duplicate (BC50586-DUP1)	Duplicate	*Source sample: 25C0261-11 (SB27_5-7)							Prepared: 03/08/2025 Analyzed: 03/10/2025			
Mercury		0.0823	0.0402	mg/kg dry		0.0854				3.67	35	
Matrix Spike (BC50586-MS1)	Matrix Spike	*Source sample: 25C0261-11 (SB27_5-7)							Prepared: 03/08/2025 Analyzed: 03/10/2025			
Mercury		0.559		mg/kg	1.00	0.0638	49.5	75-125	Low Bias			
Reference (BC50586-SRM1)	Reference								Prepared: 03/08/2025 Analyzed: 03/10/2025			
Mercury		13.509		mg/kg	24.0		56.3	55.8-109.6				
Batch BC50587 - EPA 7473 soil												
Blank (BC50587-BLK1)	Blank								Prepared: 03/08/2025 Analyzed: 03/10/2025			
Mercury		ND	0.0300	mg/kg wet								
Reference (BC50587-SRM1)	Reference								Prepared: 03/08/2025 Analyzed: 03/10/2025			
Mercury		14.415		mg/kg	24.0		60.1	55.8-109.6				
Batch BC50629 - EPA SW846-7470A												
Blank (BC50629-BLK1)	Blank								Prepared & Analyzed: 03/10/2025			
Mercury		ND	0.0002	mg/L								
Blank (BC50629-BLK2)	Blank								Prepared & Analyzed: 03/10/2025			
Mercury		ND	0.0002	mg/L								

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50629 - EPA SW846-7470A												
LCS (BC50629-BS1)	LCS							Prepared & Analyzed: 03/10/2025				
Mercury		0.0019591	0.0002	mg/L	0.00200		98.0	80-120				
LCS (BC50629-BS2)	LCS							Prepared & Analyzed: 03/10/2025				
Mercury		0.0021475	0.0002	mg/L	0.00200		107	80-120				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50356 - Analysis Preparation											
Blank (BC50356-BLK1) Blank								Prepared & Analyzed: 03/05/2025			
Chromium, Hexavalent	ND	0.0100	mg/L								
LCS (BC50356-BS1) LCS								Prepared & Analyzed: 03/05/2025			
Chromium, Hexavalent	0.436	0.0100	mg/L	0.500		87.2	85-115				
Batch BC50690 - Analysis Preparation											
Blank (BC50690-BLK1) Blank								Prepared & Analyzed: 03/10/2025			
Cyanide, total	ND	0.0100	mg/L								
LCS (BC50690-BS1) LCS								Prepared & Analyzed: 03/10/2025			
Cyanide, total	0.0879	0.0100	mg/L	0.100		87.9	80-120				
Batch BC50740 - EPA SW846-3060											
Blank (BC50740-BLK1) Blank								Prepared & Analyzed: 03/11/2025			
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Reference (BC50740-SRM1) Reference								Prepared & Analyzed: 03/11/2025			
Chromium, Hexavalent	189		mg/L	227		83.2	42.3-157.7				
Batch BC50748 - Analysis Preparation Soil											
Blank (BC50748-BLK1) Blank								Prepared & Analyzed: 03/11/2025			
Cyanide, total	ND	0.500	mg/kg wet								

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50748 - Analysis Preparation Soil											
Duplicate (BC50748-DUP1) Duplicate	*Source sample: 25C0261-11 (SB27_5-7)							Prepared & Analyzed: 03/11/2025			
Cyanide, total	ND	0.669	mg/kg dry		ND					15	
Matrix Spike (BC50748-MS1) Matrix Spike	*Source sample: 25C0261-11 (SB27_5-7)							Prepared & Analyzed: 03/11/2025			
Cyanide, total	5.94	0.669	mg/kg dry	6.69	ND	88.8	79.6-107				
Matrix Spike Dup (BC50748-M Matrix Spike Dup	*Source sample: 25C0261-11 (SB27_5-7)							Prepared & Analyzed: 03/11/2025			
Cyanide, total	6.25	0.669	mg/kg dry	6.69	ND	93.4	79.6-107		5.07	200	
Reference (BC50748-SRM1) Reference								Prepared & Analyzed: 03/11/2025			
Cyanide, total	163		ug/mL	111		147	43.5-170				
Batch BC50758 - EPA SW846-3060											
Blank (BC50758-BLK1) Blank								Prepared & Analyzed: 03/11/2025			
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Duplicate (BC50758-DUP1) Duplicate	*Source sample: 25C0261-11 (SB27_5-7)							Prepared & Analyzed: 03/11/2025			
Chromium, Hexavalent	ND	0.669	mg/kg dry		ND					35	
Matrix Spike (BC50758-MS1) Matrix Spike	*Source sample: 25C0261-11 (SB27_5-7)							Prepared & Analyzed: 03/11/2025			
Chromium, Hexavalent	ND	0.669	mg/kg dry	26.8	ND		75-125	Low Bias			
Matrix Spike Dup (BC50758-M Matrix Spike Dup	*Source sample: 25C0261-11 (SB27_5-7)							Prepared & Analyzed: 03/11/2025			
Chromium, Hexavalent	ND	0.669	mg/kg dry	26.8	ND		75-125	Low Bias		200	
Reference (BC50758-SRM1) Reference								Prepared & Analyzed: 03/11/2025			
Chromium, Hexavalent	183		mg/L	227		80.6	42.3-157.7				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50511 - % Solids Prep											
Duplicate (BC50511-DUP1) Duplicate	*Source sample: 25C0261-11 (SB27_5-7)							Prepared & Analyzed: 03/07/2025			
% Solids	78.9	0.100	%		74.7				5.42	20	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
25C0261-01	SOFB03_030525	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
25C0261-03	SOTB03_030525	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
25C0261-04	SB24_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0261-05	SB24_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0261-06	SB25_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0261-07	SB25_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0261-08	SB26_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0261-09	SB26_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0261-10	SB27_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0261-11	SB27_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0261-12	SB28_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0261-13	SB28_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0261-14	SODUP05_030525	40mL Vial with Stir Bar-Cool 4° C

Sample and Data Qualifiers Relating to This Work Order

S-GC	Two surrogates are used for this analysis. One surrogate recovered within control limits therefore the analysis is acceptable.
S-08	The recovery of this surrogate was outside of QC limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
PF-CCV-L	The CCV recovery for this PFAS compound was below control limits.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-CCV1	The recovery for this element in the Continuing Calibration Verification (CCV) was outside the 90-110% recovery criteria.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This legal document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | 2161 Whitesville Rd Toms River, NJ 08755 | clientservices@yorklab.com | 800-306-YORK

YORK Project Number: 25C0261

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Report To:
Company: Langan
Address: 368 Ninth Ave, 8th Fl NY, NY 10001
Phone: 212-479-5400
Contact: Lexi Haley
E-mail: LHaley@langan.com

Invoice To:
Company:
Address:
Phone:
Contact:
E-mail:

YOUR Project Name / Number: Proposed Bally's Casino - Ring Road at Ferry Point Park (70773001)

PO Number:

Samples Collected From: NY ☒ | NJ | CT | PA | Other: (please specify)

Turn-Around Time: Standard (6-9 Day) ☒

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Savannah Walters

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Preservative (please list number of containers)

Analyses Requested

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other: DI Water	Part 375 VOCs	Part 375 SVOCs, PCBs, Pest, Herb, TPH metals (incl Hex)	Inorganics & total cyanide	1,4-dioxane	PFAS							Grab or Comp. G/C
SOFB03_030525	3/5/25	0749	AQ	8	3		1		1					X	X	X	X	X							
SOFB03_PFAS_030525		0757		2															X						
SOTB03_030525		—			2																				
SB24_0-2		0845	S	3		1							2	X	X	X	X	X							
SB24_5-7		0849																							
SB25_0-2		1021																							
SB25_5-7		1027																							
SB26_0-2		1215																							
SB26_5-7		1222																							
SB27_0-2*		1441																	X						
SB27_5-7 (MS/MSD)		1450		9		3							6												
SB28_0-2		1528		3		1							2												
SB28_5-7		1540																							
SODWP05_030525		—																							

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative — Compared to the following Regulation(s): (please fill in)

Field Filtered | Lab Filtered

Comments: please cc: datamanagement@langan.com areach@langan.com & swalters@langan.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N

Custody Seals: Y / N | Containers Intact: Y / N | COC/Labels Agree: Y / N | Preservation Confirmed: Y / N
COC Complete: Y / N | COC Received: Y / N | Appropriate Sample Volumes: Y / N | Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N | Samples Submitted within Holding Times: Y / N | Corrective Action Form Required: Y / N

Relinquished by / Company	Date/Time	Received by / Company	Date/Time	Relinquished by / Company	Date/Time
1. Samples Relinquished by / Company: Sav Walters (Langan)	3/5/25 1625	1. Samples Received by / Company: A. Husain	3/5/25 16:25	2. Samples Relinquished by / Company: A. Husain	3/5/25 20:50
2. Samples Received by / Company		3. Samples Relinquished by / Company		3. Samples Received by / Company	
4. Samples Relinquished by / Company		4. Samples Received by / Company		Samples Received in LAB by: [signature]	3/5/25 20:50 — Temperature 2.0 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Report Date: 03/18/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0496

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/18/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0496

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 07, 2025 and listed below. The project was identified as your project: **170773001**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25C0496-01	SOFB04_030725	Water	03/07/2025	03/07/2025
25C0496-02	SOFB04_PFAS_030725	Water	03/06/2025	03/07/2025
25C0496-03	SB29_0-2	Soil	03/07/2025	03/07/2025
25C0496-04	SB29_5-7	Soil	03/07/2025	03/07/2025
25C0496-05	SB30_0-2	Soil	03/07/2025	03/07/2025
25C0496-06	SB30_5-7	Soil	03/07/2025	03/07/2025
25C0496-07	SB31_0-2	Soil	03/07/2025	03/07/2025
25C0496-08	SB31_5-7	Soil	03/07/2025	03/07/2025
25C0496-09	SB32_0-2	Soil	03/07/2025	03/07/2025
25C0496-10	SB32_5-7	Soil	03/07/2025	03/07/2025
25C0496-11	SB33_0-2	Soil	03/07/2025	03/07/2025
25C0496-12	SB33_5-7	Soil	03/07/2025	03/07/2025
25C0496-13	SB34_0-2	Soil	03/07/2025	03/07/2025
25C0496-14	SB34_5-7	Soil	03/07/2025	03/07/2025
25C0496-15	SOTB04_030725	Water	03/07/2025	03/07/2025

General Notes for York Project (SDG) No.: 25C0496

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By **Date:** 03/18/2025

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: SOFB04_030725 **York Sample ID:** 25C0496-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Water	March 7, 2025 7:46 am	03/07/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SOFB04_030725 **York Sample ID:** 25C0496-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Water	March 7, 2025 7:46 am	03/07/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND		ug/L	1.34	2.00	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		ug/L	0.447	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND	CCVE	ug/L	0.119	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND	CCVE	ug/L	0.448	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	ug/L	0.372	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND	ICVE	ug/L	0.491	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: **SOFB04_030725** **York Sample ID:** **25C0496-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Water	March 7, 2025 7:46 am	03/07/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND	ICVE	ug/L	0.442	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND	CCVE	ug/L	0.578	1.00	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND	QL-02	ug/L	0.249	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SOFB04_030725** **York Sample ID:** **25C0496-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Water	March 7, 2025 7:46 am	03/07/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND	CCVE	ug/L	0.337	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE	ug/L	0.469	0.500	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/08/2025 10:56	03/08/2025 19:08	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*89.0 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*89.7 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*90.5 %*	*79-122*

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND	CCVE	ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND	CCVE	ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND	CCVE	ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND	CCVE	ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SOFB04_030725 **York Sample ID:** 25C0496-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Water	March 7, 2025 7:46 am	03/07/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-48-7	2-Methylphenol	ND	CCVE	ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND	CCVE	ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND	CCVE	ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
99-09-2	3-Nitroaniline	ND	CCVE	ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND	CCVE	ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		ug/L	5.88	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND	CAL-E	ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	ug/L	5.88	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CCVE	ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SOFB04_030725 **York Sample ID:** 25C0496-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Water	March 7, 2025 7:46 am	03/07/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.18	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	NELAC-NY10854,PADEP-68-04440		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.88	11.8	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND	CCVE	ug/L	0.882	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		ug/L	2.94	5.88	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:25	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*27.2 %*	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*16.8 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*58.2 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*40.8 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*44.2 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*69.0 %*	*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: SOFB04_030725 **York Sample ID:** 25C0496-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Water	March 7, 2025 7:46 am	03/07/2025

83-32-9	Acenaphthene	ND	ug/L	0.0588	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND	ug/L	0.0588	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-12-7	Anthracene	ND	ug/L	0.0588	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND	ug/L	0.588	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
56-55-3	Benzo(a)anthracene	ND	ug/L	0.0588	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND	ug/L	0.0588	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND	ug/L	0.0588	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND	ug/L	0.0588	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND	ug/L	0.0588	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND	ug/L	0.588	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	Chrysene	ND	ug/L	0.0588	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND	ug/L	0.0588	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	Fluoranthene	ND	ug/L	0.0588	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	Fluorene	ND	ug/L	0.0588	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
118-74-1	Hexachlorobenzene	ND	ug/L	0.0235	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND	ug/L	0.588	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND	ug/L	0.588	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND	ug/L	0.0588	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND	ug/L	0.0588	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND	ug/L	0.294	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
62-75-9	N-Nitrosodimethylamine	ND	ug/L	0.588	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-86-5	Pentachlorophenol	ND	ug/L	0.294	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
85-01-8	Phenanthrene	ND	ug/L	0.0588	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND	ug/L	0.0588	1	EPA 8270D SIM	03/12/2025 14:26	03/14/2025 12:42	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SOFB04_030725** **York Sample ID:** **25C0496-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Water	March 7, 2025 7:46 am	03/07/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270E SIM	03/13/2025 20:15	03/14/2025 23:29	SS
							Certifications: NJDEP-CT005,NELAC-NY10854			

	Surrogate Recoveries	Result		Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*140 %*	S-HI	*36.6-118*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SOFB04_030725 **York Sample ID:** 25C0496-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Water	March 7, 2025 7:46 am	03/07/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:08	SCB
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*43.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*64.4 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 04:47	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 04:47	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 04:47	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 04:47	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 04:47	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 04:47	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 04:47	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 04:47	NF
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*27.0 %*	S-GC, S-08	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*31.5 %*		*30-120*

Sample Information

Client Sample ID: **SOFB04_030725** **York Sample ID:** **25C0496-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Water	March 7, 2025 7:46 am	03/07/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	03/11/2025 12:18	03/13/2025 14:45	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	03/11/2025 12:18	03/13/2025 14:45	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	03/11/2025 12:18	03/13/2025 14:45	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*95.4 %*	*30-150*

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1.47**		mg/L	0.0556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**0.130**		mg/L	0.0556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**0.318**		mg/L	0.0556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**1.59**		mg/L	0.556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SOFB04_030725 **York Sample ID:** 25C0496-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Water	March 7, 2025 7:46 am	03/07/2025

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:00	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-BS	ug/L	1.11	1	EPA 6020B	03/12/2025 08:56	03/12/2025 15:48	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	03/12/2025 08:56	03/12/2025 15:48	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	03/12/2025 08:56	03/12/2025 15:48	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND	M-BS	ug/L	0.556	1	EPA 6020B	03/12/2025 08:56	03/12/2025 15:48	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**1.75**		ug/L	1.11	1	EPA 6020B	03/12/2025 08:56	03/12/2025 15:48	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/12/2025 08:56	03/12/2025 15:48	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/12/2025 08:07	03/12/2025 08:07	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	03/07/2025 19:40	03/07/2025 21:43	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	03/13/2025 11:15	03/13/2025 11:18	AD
							Certifications:			

Sample Information

Client Sample ID: **SOFB04_030725** **York Sample ID:** **25C0496-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Water	March 7, 2025 7:46 am	03/07/2025

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C-2016 / E-2016	03/11/2025 14:06	03/11/2025 20:17	CB

Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: **SOFB04_PFAS_030725** **York Sample ID:** **25C0496-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Water	March 6, 2025 7:54 am	03/07/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.422	1.59	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.314	1.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.637	1.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.610	1.64	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
335-67-1	Perfluorooctanoic acid (PFOA)	ND	PF-CCV-L	ng/L	0.377	1.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.736	1.67	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.466	1.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.673	1.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.01	1.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND	PF-CCV-L	ng/L	0.789	1.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.664	1.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.619	1.79	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.709	1.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
2991-50-6	N-EtFOSAA	ND		ng/L	0.924	1.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.206	3.59	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.789	1.79	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.816	1.71	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.18	1.73	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	6.73	6.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.84	6.89	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.296	7.18	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM

Sample Information

Client Sample ID: SOFB04_PFAS_030725 **York Sample ID:** 25C0496-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Water	March 6, 2025 7:54 am	03/07/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.449	3.19	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/17/2025 16:32	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	PF-LCS-L	ng/L	1.92	3.59	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/17/2025 16:32	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.224	3.59	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/17/2025 16:32	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.332	3.59	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/17/2025 16:32	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.682	1.69	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.61	6.73	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	2.90	7.18	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.24	6.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.628	6.71	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
919005-14-4	ADONA	ND		ng/L	0.475	6.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.834	1.74	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 16:32	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.771	1.72	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/17/2025 16:32	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.82	4.49	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 16:32	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	6.58	22.4	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 16:32	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND	PF-CCV-L, PF-LCS-L	ng/L	8.49	22.4	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 16:32	AM
24448-09-7	* N-MeFOSE	ND		ng/L	3.58	17.9	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 16:32	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.42	1.79	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 16:32	AM
1691-99-2	* N-EtFOSE	ND		ng/L	3.58	17.9	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 16:32	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.61	1.79	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 16:32	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*133 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*129 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*153 %*	PFSu-H	*25-150*

Sample Information

Client Sample ID: **SOFB04_PFAS_030725** **York Sample ID:** **25C0496-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Water	March 6, 2025 7:54 am	03/07/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
13C3PFHXS	*Surrogate: M3PFHxS*	*133 %*			*25-150*						
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*137 %*			*25-150*						
13C6PFDA	*Surrogate: M6PFDA*	*132 %*			*25-150*						
13C7PFUNA	*Surrogate: M7PFUdA*	*123 %*			*25-150*						
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*105 %*			*25-150*						
13C2PFTEDA	*Surrogate: M2PFTeDA*	*73.6 %*			*10-150*						
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*3.38 %*	PFSu-L		*25-150*						
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*119 %*			*25-150*						
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*68.2 %*			*25-150*						
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*101 %*			*10-150*						
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*97.5 %*			*25-150*						
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*106 %*			*25-150*						
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*110 %*			*25-200*						
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*101 %*			*25-200*						
13C9PFNA	*Surrogate: M9PFNA*	*119 %*			*25-150*						
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*122 %*			*25-150*						
936109-37-4	*Surrogate: d-N-MeFOSA*	*111 %*			*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*108 %*			*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*128 %*			*25-150*						
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*69.4 %*			*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*70.5 %*			*25-150*						

Sample Information

Client Sample ID: **SB29_0-2** **York Sample ID:** **25C0496-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:14 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.047	0.093	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB29_0-2 **York Sample ID:** 25C0496-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:14 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0047	0.0093	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0047	0.0093	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB29_0-2 **York Sample ID:** 25C0496-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:14 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0047	0.0093	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0047	0.0093	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB29_0-2 **York Sample ID:** 25C0496-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:14 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0070	0.014	1	EPA 8260D	03/12/2025 12:00	03/12/2025 16:44	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*107 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0913	0.182	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB29_0-2** **York Sample ID:** **25C0496-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:14 am	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0913	0.182	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.183	0.366	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.183	0.366	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.117**		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB29_0-2** **York Sample ID:** **25C0496-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:14 am	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.0912**	J	mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.0905**	J	mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.0511**	J	mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.0876**	J	mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.0693**	J	mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0913	0.182	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.119**		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND	CCVE	mg/kg dry	0.0913	0.182	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.234**		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB29_0-2 **York Sample ID:** 25C0496-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:14 am	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.0562**	J	mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E, CCVE	mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.111**		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.177**		mg/kg dry	0.0458	0.0913	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.183	0.366	2	EPA 8270E	03/15/2025 07:41	03/15/2025 20:01	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*69.3 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*64.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*61.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*60.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*55.0 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*55.7 %*	*24-116*

Sample Information

Client Sample ID: SB29_0-2 **York Sample ID:** 25C0496-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:14 am	03/07/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.2	1	EPA 8270D SIM	03/16/2025 07:35	03/17/2025 11:05	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*106 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00182	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00182	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00182	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00182	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00182	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00182	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00182	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00182	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00182	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00182	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00182	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00182	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00182	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00182	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00182	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00182	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB29_0-2 **York Sample ID:** 25C0496-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:14 am	03/07/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00182	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00182	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00182	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00182	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.182	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0365	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:39	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*46.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*63.9 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0185	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0185	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0185	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0185	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0185	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0185	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0185	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0185	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:21	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*48.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*38.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB29_0-2** **York Sample ID:** **25C0496-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:14 am	03/07/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0223	1	EPA 8151A	03/14/2025 09:04	03/16/2025 13:04	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0223	1	EPA 8151A	03/14/2025 09:04	03/16/2025 13:04	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0223	1	EPA 8151A	03/14/2025 09:04	03/16/2025 13:04	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*83.6 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**6380**		mg/kg dry	4.67	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.33	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**1.80**		mg/kg dry	1.40	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**60.2**		mg/kg dry	2.33	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.206**		mg/kg dry	0.047	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.280	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**3450**		mg/kg dry	4.67	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**16.8**		mg/kg dry	0.467	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**6.11**		mg/kg dry	0.373	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**21.3**		mg/kg dry	1.87	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**11500**		mg/kg dry	23.3	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**18.8**		mg/kg dry	0.467	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3010**		mg/kg dry	4.67	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**157**		mg/kg dry	0.467	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**11.1**		mg/kg dry	0.930	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB29_0-2** **York Sample ID:** **25C0496-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:14 am	03/07/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**2060**		mg/kg dry	4.67	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.33	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.470	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**142**		mg/kg dry	46.7	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.87	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**24.8**		mg/kg dry	0.930	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**46.9**		mg/kg dry	2.32	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:25	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0458**		mg/kg dry	0.0336	1	EPA 7473	03/11/2025 15:19	03/12/2025 15:46	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.560	1	EPA 7196A	03/12/2025 09:28	03/12/2025 14:30	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**16.8**		mg/kg	0.500	1	Calculation	03/13/2025 15:00	03/13/2025 15:04	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.560	1	EPA 9014/9010C	03/12/2025 08:21	03/12/2025 14:00	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB29_0-2** **York Sample ID:** **25C0496-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:14 am	03/07/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.3**		%	0.100	1	SM 2540G	03/11/2025 09:55	03/11/2025 11:05	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB29_5-7** **York Sample ID:** **25C0496-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:20 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.079	0.16	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.057**		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB29_5-7 **York Sample ID:** 25C0496-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:20 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.16**	ICVE	mg/kg dry	0.0079	0.016	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0079	0.016	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB29_5-7 **York Sample ID:** 25C0496-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:20 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0079	0.016	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0079	0.016	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB29_5-7** **York Sample ID:** **25C0496-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:20 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0040	0.0079	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.012	0.024	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:09	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*107 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.130	0.260	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.130	0.260	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.130	0.260	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB29_5-7 **York Sample ID:** 25C0496-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:20 am	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.130	0.260	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.130	0.260	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.130	0.260	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.130	0.260	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.130	0.260	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.261	0.522	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.261	0.522	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.0843**	J	mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB29_5-7 **York Sample ID:** 25C0496-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:20 am	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.0927**	J	mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.0843**	J	mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.0698**	J	mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.130	0.260	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.0802**	J	mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.130	0.260	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.109**	J	mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB29_5-7** **York Sample ID:** **25C0496-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:20 am	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.0937**	J	mg/kg dry	0.0653	0.130	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.261	0.522	2	EPA 8270E	03/15/2025 07:41	03/17/2025 15:04	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*72.5 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*61.7 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*57.8 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*56.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*73.3 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*61.8 %*	*24-116*

Sample Information

Client Sample ID: SB29_5-7 **York Sample ID:** 25C0496-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:20 am	03/07/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.2	1	EPA 8270D SIM	03/16/2025 07:35	03/17/2025 11:20	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*104 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00256	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00256	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00256	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00256	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00256	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00256	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00256	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00256	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00256	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00256	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00256	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00256	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00256	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00256	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00256	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00256	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB29_5-7 **York Sample ID:** 25C0496-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:20 am	03/07/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00256	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00256	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00256	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00256	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.256	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0512	5	EPA 8081B	03/13/2025 08:58	03/13/2025 19:56	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*49.5 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*68.1 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0259	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:35	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0259	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:35	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0259	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:35	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0259	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:35	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0259	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:35	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0259	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:35	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0259	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:35	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0259	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:35	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*50.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*39.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB29_5-7** **York Sample ID:** **25C0496-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:20 am	03/07/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0310	1	EPA 8151A	03/14/2025 09:04	03/16/2025 13:11	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0310	1	EPA 8151A	03/14/2025 09:04	03/16/2025 13:11	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0310	1	EPA 8151A	03/14/2025 09:04	03/16/2025 13:11	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*54.2 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**20700**		mg/kg dry	6.55	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	3.28	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**12.3**		mg/kg dry	1.97	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**94.7**		mg/kg dry	3.27	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.684**		mg/kg dry	0.066	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.393	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**2860**		mg/kg dry	6.55	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**53.4**		mg/kg dry	0.656	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**9.46**		mg/kg dry	0.524	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**40.5**		mg/kg dry	2.62	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**30800**		mg/kg dry	32.8	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**90.7**		mg/kg dry	0.656	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**6860**		mg/kg dry	6.56	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**288**		mg/kg dry	0.656	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**31.8**		mg/kg dry	1.31	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB29_5-7** **York Sample ID:** **25C0496-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:20 am	03/07/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**4990**		mg/kg dry	6.56	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	3.28	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.660	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**630**		mg/kg dry	65.5	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.63	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**53.1**		mg/kg dry	1.31	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**81.6**		mg/kg dry	3.26	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:27	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.373**		mg/kg dry	0.0472	1	EPA 7473	03/11/2025 15:19	03/12/2025 15:46	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.786	1	EPA 7196A	03/12/2025 09:28	03/12/2025 14:30	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**53.4**		mg/kg	0.500	1	Calculation	03/13/2025 15:00	03/13/2025 15:04	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.786	1	EPA 9014/9010C	03/12/2025 08:21	03/12/2025 14:00	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB29_5-7** **York Sample ID:** **25C0496-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:20 am	03/07/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**63.6**		%	0.100	1	SM 2540G	03/11/2025 09:55	03/11/2025 11:05	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB30_0-2 **York Sample ID:** 25C0496-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:51 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.049	0.098	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB30_0-2 **York Sample ID:** 25C0496-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:51 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.0071**	ICVE, J	mg/kg dry	0.0049	0.0098	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0049	0.0098	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB30_0-2 **York Sample ID:** 25C0496-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:51 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0049	0.0098	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0049	0.0098	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB30_0-2** **York Sample ID:** **25C0496-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:51 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0073	0.015	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:34	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0934	0.187	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0934	0.187	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0934	0.187	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB30_0-2 **York Sample ID:** 25C0496-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:51 am	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0934	0.187	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0934	0.187	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0934	0.187	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0934	0.187	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0934	0.187	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.187	0.374	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.187	0.374	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.152**		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB30_0-2** **York Sample ID:** **25C0496-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:51 am	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.122**		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.130**		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.0746**	J	mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.107**		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0934	0.187	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.149**		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND	CCVE	mg/kg dry	0.0934	0.187	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.322**		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB30_0-2 **York Sample ID:** 25C0496-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:51 am	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.0776**	J	mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E, CCVE	mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.159**		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.216**		mg/kg dry	0.0468	0.0934	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.187	0.374	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:00	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*83.8 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*72.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*70.7 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*71.8 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*80.0 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*67.8 %*	*24-116*

Sample Information

Client Sample ID: **SB30_0-2** **York Sample ID:** **25C0496-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:51 am	03/07/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.2	1	EPA 8270D SIM	03/16/2025 07:35	03/17/2025 11:35	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*100 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00187	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00187	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00187	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00187	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00187	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00187	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00187	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00187	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00187	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00187	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00187	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00187	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00187	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00187	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00187	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00187	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB30_0-2 **York Sample ID:** 25C0496-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:51 am	03/07/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00187	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00187	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00187	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00187	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.187	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0373	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:15	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*47.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*61.1 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0187	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0187	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0187	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0187	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0187	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0187	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0187	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0187	1	EPA 8082A	03/13/2025 08:50	03/13/2025 19:48	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*40.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*31.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB30_0-2** **York Sample ID:** **25C0496-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:51 am	03/07/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0226	1	EPA 8151A	03/14/2025 09:04	03/16/2025 13:18	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0226	1	EPA 8151A	03/14/2025 09:04	03/16/2025 13:18	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0226	1	EPA 8151A	03/14/2025 09:04	03/16/2025 13:18	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*77.2 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**5390**		mg/kg dry	4.77	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.39	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.01**		mg/kg dry	1.43	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**77.5**		mg/kg dry	2.38	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.216**		mg/kg dry	0.048	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.706**		mg/kg dry	0.286	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**4490**		mg/kg dry	4.77	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**14.6**		mg/kg dry	0.478	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**4.85**		mg/kg dry	0.381	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**46.5**		mg/kg dry	1.91	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**11400**		mg/kg dry	23.9	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**113**		mg/kg dry	0.478	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**2180**		mg/kg dry	4.78	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**157**		mg/kg dry	0.478	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**13.7**		mg/kg dry	0.951	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB30_0-2** **York Sample ID:** **25C0496-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:51 am	03/07/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1210**		mg/kg dry	4.78	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.39	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.481	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**106**		mg/kg dry	47.7	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.91	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**16.7**		mg/kg dry	0.951	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**117**		mg/kg dry	2.38	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.491**		mg/kg dry	0.0344	1	EPA 7473	03/11/2025 15:19	03/12/2025 15:46	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.573	1	EPA 7196A	03/12/2025 09:28	03/12/2025 14:30	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**14.6**		mg/kg	0.500	1	Calculation	03/13/2025 15:00	03/13/2025 15:04	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.573	1	EPA 9014/9010C	03/12/2025 08:21	03/12/2025 14:00	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB30_0-2** **York Sample ID:** **25C0496-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:51 am	03/07/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**87.3**		%	0.100	1	SM 2540G	03/11/2025 09:55	03/11/2025 11:05	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB30_5-7** **York Sample ID:** **25C0496-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:59 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.052	0.10	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.0054**		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB30_5-7 **York Sample ID:** 25C0496-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:59 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.023**	ICVE	mg/kg dry	0.0052	0.010	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0052	0.010	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB30_5-7 **York Sample ID:** 25C0496-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:59 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	**Methyl acetate**	**0.0064**		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0052	0.010	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0052	0.010	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB30_5-7 **York Sample ID:** 25C0496-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:59 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0078	0.016	1	EPA 8260D	03/12/2025 12:00	03/12/2025 17:59	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0975	0.195	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0975	0.195	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0975	0.195	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB30_5-7 **York Sample ID:** 25C0496-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:59 am	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0975	0.195	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0975	0.195	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0975	0.195	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0975	0.195	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0975	0.195	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	**Acenaphthene**	**0.0904**	J	mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.0584**	J	mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.195	0.390	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.238**		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.195	0.390	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.615**		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB30_5-7 **York Sample ID:** 25C0496-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:59 am	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.425**		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.409**		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.207**		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.411**		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.0888**	J	mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0975	0.195	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	**Carbazole**	**0.0647**	J	mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.584**		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	**Dibenzo(a,h)anthracene**	**0.0802**	J	mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND	CCVE	mg/kg dry	0.0975	0.195	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**1.47**		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB30_5-7** **York Sample ID:** **25C0496-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:59 am	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	**Fluorene**	**0.0771**	J	mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.243**	CCVE	mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E, CCVE	mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.782**		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**1.02**		mg/kg dry	0.0488	0.0975	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.195	0.390	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:30	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*72.5 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*70.1 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*69.3 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*65.9 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*65.7 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*64.3 %*	*24-116*

Sample Information

Client Sample ID: **SB30_5-7** **York Sample ID:** **25C0496-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:59 am	03/07/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.2	1	EPA 8270D SIM	03/16/2025 07:35	03/17/2025 11:50	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*106 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00192	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00192	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00192	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00192	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00192	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	**alpha-Chlordane**	**0.00462**		mg/kg dry	0.00192	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00192	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00192	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00192	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00192	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00192	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00192	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00192	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00192	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00192	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00192	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB30_5-7 **York Sample ID:** 25C0496-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:59 am	03/07/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	**gamma-Chlordane**	**0.00484**		mg/kg dry	0.00192	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
76-44-8	Heptachlor	ND		mg/kg dry	0.00192	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00192	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-43-5	Methoxychlor	ND		mg/kg dry	0.00192	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
8001-35-2	Toxaphene	ND		mg/kg dry	0.192	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0383	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:33	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*44.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*77.1 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0193	1	EPA 8082A	03/13/2025 08:50	03/13/2025 20:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0193	1	EPA 8082A	03/13/2025 08:50	03/13/2025 20:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0193	1	EPA 8082A	03/13/2025 08:50	03/13/2025 20:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0193	1	EPA 8082A	03/13/2025 08:50	03/13/2025 20:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0193	1	EPA 8082A	03/13/2025 08:50	03/13/2025 20:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0193	1	EPA 8082A	03/13/2025 08:50	03/13/2025 20:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0193	1	EPA 8082A	03/13/2025 08:50	03/13/2025 20:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0193	1	EPA 8082A	03/13/2025 08:50	03/13/2025 20:02	NF
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*40.5 %*		*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*28.0 %*	S-08, S-GC	*30-120*

Sample Information

Client Sample ID: **SB30_5-7** **York Sample ID:** **25C0496-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:59 am	03/07/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0234	1	EPA 8151A	03/14/2025 09:04	03/16/2025 13:26	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0234	1	EPA 8151A	03/14/2025 09:04	03/16/2025 13:26	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0234	1	EPA 8151A	03/14/2025 09:04	03/16/2025 13:26	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*83.6 %*	*21-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9630**		mg/kg dry	4.93	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.47	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**4.50**		mg/kg dry	1.48	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**125**		mg/kg dry	2.46	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.582**		mg/kg dry	0.050	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.424**		mg/kg dry	0.296	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**11000**		mg/kg dry	4.93	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**23.9**		mg/kg dry	0.494	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**11.0**		mg/kg dry	0.394	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**156**		mg/kg dry	1.97	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**16600**		mg/kg dry	24.7	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**178**		mg/kg dry	0.494	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3570**		mg/kg dry	4.94	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**238**		mg/kg dry	0.494	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB30_5-7** **York Sample ID:** **25C0496-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:59 am	03/07/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	**Nickel**	**42.1**		mg/kg dry	0.983	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**2810**		mg/kg dry	4.94	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.47	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	**Silver**	**12.0**		mg/kg dry	0.497	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**283**		mg/kg dry	49.3	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.98	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**29.9**		mg/kg dry	0.983	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**243**		mg/kg dry	2.46	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.757**		mg/kg dry	0.0355	1	EPA 7473	03/11/2025 15:19	03/12/2025 15:46	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.592	1	EPA 7196A	03/12/2025 09:28	03/12/2025 14:30	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**23.9**		mg/kg	0.500	1	Calculation	03/13/2025 15:00	03/13/2025 15:04	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **SB30_5-7** **York Sample ID:** **25C0496-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 10:59 am	03/07/2025

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.592	1	EPA 9014/9010C	03/12/2025 08:21	03/12/2025 14:00	LJM
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**84.4**		%	0.100	1	SM 2540G	03/11/2025 09:55	03/11/2025 11:05	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB31_0-2 **York Sample ID:** 25C0496-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:27 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.047	0.095	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB31_0-2 **York Sample ID:** 25C0496-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:27 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0047	0.0095	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0047	0.0095	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB31_0-2 **York Sample ID:** 25C0496-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:27 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0047	0.0095	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0047	0.0095	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB31_0-2 **York Sample ID:** 25C0496-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:27 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0024	0.0047	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0071	0.014	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:24	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*107 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0886	0.177	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0886	0.177	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0886	0.177	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB31_0-2 **York Sample ID:** 25C0496-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:27 am	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0886	0.177	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0886	0.177	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0886	0.177	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0886	0.177	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0886	0.177	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.177	0.355	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.177	0.355	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.0595**	J	mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB31_0-2** **York Sample ID:** **25C0496-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:27 am	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0886	0.177	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.0538**	J	mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND	CCVE	mg/kg dry	0.0886	0.177	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.139**		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB31_0-2** **York Sample ID:** **25C0496-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:27 am	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E, CCVE	mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.0935**		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.0942**		mg/kg dry	0.0444	0.0886	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.177	0.355	2	EPA 8270E	03/15/2025 07:41	03/15/2025 21:59	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*66.5 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*63.2 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*56.7 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*59.7 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*60.9 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*57.8 %*	*24-116*

Sample Information

Client Sample ID: **SB31_0-2** **York Sample ID:** **25C0496-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:27 am	03/07/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.2	1	EPA 8270D SIM Certifications: NELAC-NY10854	03/16/2025 07:35	03/17/2025 12:05	SS

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*92.0 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.118	0.189	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0565	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.112	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.191	0.195	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.184	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.178	0.198	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.202	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.204	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.211	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND	PF-CCV -L	ug/kg dry	0.174	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.133	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.110	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.158	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.207	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.116	0.427	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.156	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM

Sample Information

Client Sample ID: SB31_0-2 **York Sample ID:** 25C0496-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:27 am	03/07/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.165	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.204	0.206	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.800	0.811	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.806	0.819	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.116	0.854	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.148	0.380	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:34	AM
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.206	0.427	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:34	AM
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0662	0.427	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:34	AM
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.102	0.427	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:34	AM
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.168	0.201	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.635	0.800	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.649	0.854	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.332	0.807	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.262	0.798	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
919005-14-4	* ADONA	ND		ug/kg dry	0.186	0.807	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.180	0.207	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:34	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.132	0.205	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:34	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.676	1.07	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:34	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.24	5.33	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:34	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND	PF-CCV-L, PF-LCS-L	ug/kg dry	1.60	5.33	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:34	AM

Sample Information

Client Sample ID: **SB31_0-2** **York Sample ID:** **25C0496-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:27 am	03/07/2025

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.652	2.13	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:34	AM
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.192	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:34	AM
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.744	2.13	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:34	AM
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.211	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:34	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*155 %*	PFSu-H	*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*127 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*162 %*	PFSu-H	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*142 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*125 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*142 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*137 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*136 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*107 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*126 %*		*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*125 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*132 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*85.7 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*133 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*142 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*128 %*		*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*142 %*		*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*130 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*143 %*		*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*58.4 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*53.3 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*134 %*		*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*59.7 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*52.7 %*		*25-150*

Sample Information

Client Sample ID: SB31_0-2 **York Sample ID:** 25C0496-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:27 am	03/07/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00173	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:50	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00173	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:50	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00173	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:50	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		mg/kg dry	0.00173	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:50	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		mg/kg dry	0.00173	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:50	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00173	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:50	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
319-85-7	beta-BHC	ND		mg/kg dry	0.00173	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:50	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		mg/kg dry	0.00173	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:50	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		mg/kg dry	0.00173	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:50	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		mg/kg dry	0.00173	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:50	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00173	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:50	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00173	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:50	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		mg/kg dry	0.00173	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:50	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00173	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:50	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00173	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:50	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00173	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:50	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00173	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:50	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00173	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:50	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00173	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:50	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00173	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:50	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.173	5	EPA 8081B	03/13/2025 08:58	03/13/2025 22:50	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB31_0-2 **York Sample ID:** 25C0496-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:27 am	03/07/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0346	5	EPA 8081B Certifications:	03/13/2025 08:58	03/13/2025 22:50	RJ

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*47.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.8 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/13/2025 08:50	03/13/2025 20:16	NF
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/13/2025 08:50	03/13/2025 20:16	NF
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/13/2025 08:50	03/13/2025 20:16	NF
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/13/2025 08:50	03/13/2025 20:16	NF
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/13/2025 08:50	03/13/2025 20:16	NF
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/13/2025 08:50	03/13/2025 20:16	NF
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/13/2025 08:50	03/13/2025 20:16	NF
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0175	1	EPA 8082A Certifications:	03/13/2025 08:50	03/13/2025 20:16	NF

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*41.0 %*		*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*29.5 %*	S-08, S-GC	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0210	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/14/2025 09:04	03/16/2025 13:33	GXB
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0210	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/14/2025 09:04	03/16/2025 13:33	GXB
94-75-7	2,4-D	ND		mg/kg dry	0.0210	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/14/2025 09:04	03/16/2025 13:33	GXB

Sample Information

Client Sample ID: SB31_0-2 **York Sample ID:** 25C0496-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:27 am	03/07/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*85.6 %*	*21-150*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**2410**		mg/kg dry	4.45	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.23	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		mg/kg dry	1.34	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**22.5**		mg/kg dry	2.22	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.075**		mg/kg dry	0.045	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.267	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1070**		mg/kg dry	4.45	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**7.14**		mg/kg dry	0.446	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**1.99**		mg/kg dry	0.356	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**3.91**		mg/kg dry	1.78	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**3710**		mg/kg dry	22.3	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**5.85**		mg/kg dry	0.446	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**1040**		mg/kg dry	4.46	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**49.2**		mg/kg dry	0.446	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**3.68**		mg/kg dry	0.887	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**805**		mg/kg dry	4.46	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.23	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB31_0-2** **York Sample ID:** **25C0496-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:27 am	03/07/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		mg/kg dry	0.449	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**51.1**		mg/kg dry	44.5	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.79	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**8.30**		mg/kg dry	0.887	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**14.2**		mg/kg dry	2.22	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0321	1	EPA 7473	03/11/2025 15:19	03/12/2025 15:46	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.535	1	EPA 7196A	03/12/2025 09:28	03/12/2025 14:30	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**7.14**		mg/kg	0.500	1	Calculation	03/13/2025 15:00	03/13/2025 15:04	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.535	1	EPA 9014/9010C	03/12/2025 08:21	03/12/2025 14:00	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB31_0-2** **York Sample ID:** **25C0496-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:27 am	03/07/2025

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**93.5**		%	0.100	1	SM 2540G	03/11/2025 10:02	03/11/2025 12:00	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB31_5-7** **York Sample ID:** **25C0496-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:40 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.061	0.12	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.026**		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB31_5-7** **York Sample ID:** **25C0496-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:40 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.068**	ICVE	mg/kg dry	0.0061	0.012	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0061	0.012	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	**Carbon disulfide**	**0.0041**	J	mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB31_5-7 **York Sample ID:** 25C0496-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:40 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0061	0.012	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0061	0.012	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB31_5-7 **York Sample ID:** 25C0496-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:40 am	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0031	0.0061	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0092	0.018	1	EPA 8260D	03/12/2025 12:00	03/12/2025 18:49	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*109 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0903	0.180	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0903	0.180	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0903	0.180	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB31_5-7 **York Sample ID:** 25C0496-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:40 am	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0903	0.180	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0903	0.180	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0903	0.180	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0903	0.180	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0903	0.180	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.181	0.362	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.0939**		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.181	0.362	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.248**		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB31_5-7** **York Sample ID:** **25C0496-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:40 am	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.162**		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.166**		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.0780**	J	mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.172**		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.178**		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0903	0.180	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.237**		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	**Di-n-butyl phthalate**	**0.157**		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND	CCVE	mg/kg dry	0.0903	0.180	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.617**		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB31_5-7 **York Sample ID:** 25C0496-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:40 am	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.0982**	CCVE	mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E, CCVE	mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.346**		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.370**		mg/kg dry	0.0453	0.0903	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.181	0.362	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:29	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*70.2 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*64.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*56.9 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*60.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*64.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*60.2 %*	*24-116*

Sample Information

Client Sample ID: **SB31_5-7** **York Sample ID:** **25C0496-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:40 am	03/07/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.2	1	EPA 8270D SIM	03/16/2025 07:35	03/17/2025 12:20	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*100 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00176	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00176	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00176	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00176	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00176	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00176	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00176	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00176	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00176	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00176	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00176	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00176	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB31_5-7 **York Sample ID:** 25C0496-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:40 am	03/07/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00176	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00176	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00176	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.176	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0352	5	EPA 8081B	03/13/2025 08:58	03/13/2025 23:07	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*46.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*74.1 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0178	1	EPA 8082A	03/13/2025 08:50	03/13/2025 20:30	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0178	1	EPA 8082A	03/13/2025 08:50	03/13/2025 20:30	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0178	1	EPA 8082A	03/13/2025 08:50	03/13/2025 20:30	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0178	1	EPA 8082A	03/13/2025 08:50	03/13/2025 20:30	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0178	1	EPA 8082A	03/13/2025 08:50	03/13/2025 20:30	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0178	1	EPA 8082A	03/13/2025 08:50	03/13/2025 20:30	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0178	1	EPA 8082A	03/13/2025 08:50	03/13/2025 20:30	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0178	1	EPA 8082A	03/13/2025 08:50	03/13/2025 20:30	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*42.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*33.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB31_5-7** **York Sample ID:** **25C0496-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:40 am	03/07/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0216	1	EPA 8151A	03/14/2025 09:04	03/16/2025 13:40	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0216	1	EPA 8151A	03/14/2025 09:04	03/16/2025 13:40	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0216	1	EPA 8151A	03/14/2025 09:04	03/16/2025 13:40	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*64.0 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**2780**		mg/kg dry	4.53	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.26	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		mg/kg dry	1.36	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**24.0**		mg/kg dry	2.26	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.095**		mg/kg dry	0.046	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.272	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**4650**		mg/kg dry	4.53	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**10.4**		mg/kg dry	0.453	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**2.24**		mg/kg dry	0.362	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**8.81**		mg/kg dry	1.81	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**10600**		mg/kg dry	22.6	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**8.12**		mg/kg dry	0.453	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**1230**		mg/kg dry	4.53	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**81.7**		mg/kg dry	0.453	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**4.63**		mg/kg dry	0.902	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB31_5-7** **York Sample ID:** **25C0496-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:40 am	03/07/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**709**		mg/kg dry	4.53	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.26	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.456	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**75.6**		mg/kg dry	45.3	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.82	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**8.31**		mg/kg dry	0.902	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**24.6**		mg/kg dry	2.26	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.436**		mg/kg dry	0.0326	1	EPA 7473	03/11/2025 15:19	03/12/2025 15:46	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.543	1	EPA 7196A	03/12/2025 09:28	03/12/2025 14:30	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**10.4**		mg/kg	0.500	1	Calculation	03/13/2025 15:00	03/13/2025 15:04	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.543	1	EPA 9014/9010C	03/12/2025 08:21	03/12/2025 14:00	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB31_5-7** **York Sample ID:** **25C0496-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 11:40 am	03/07/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**92.0**		%	0.100	1	SM 2540G	03/11/2025 10:02	03/11/2025 12:00	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB32_0-2 **York Sample ID:** 25C0496-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:21 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.039	0.078	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB32_0-2 **York Sample ID:** 25C0496-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:21 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB32_0-2 **York Sample ID:** 25C0496-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:21 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0039	0.0078	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB32_0-2 **York Sample ID:** 25C0496-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:21 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0020	0.0039	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0059	0.012	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:14	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*96.9 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0870	0.174	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0870	0.174	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0870	0.174	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB32_0-2** **York Sample ID:** **25C0496-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:21 pm	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0870	0.174	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0870	0.174	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0870	0.174	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0870	0.174	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0870	0.174	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.174	0.348	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.0521**	J	mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.174	0.348	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.184**		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB32_0-2 **York Sample ID:** 25C0496-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:21 pm	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.137**		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.142**		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.0674**	J	mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.129**		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0870	0.174	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.170**		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND	CCVE	mg/kg dry	0.0870	0.174	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.414**		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB32_0-2 **York Sample ID:** 25C0496-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:21 pm	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.0834**	J	mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E, CCVE	mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.217**		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.295**		mg/kg dry	0.0436	0.0870	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.174	0.348	2	EPA 8270E	03/15/2025 07:41	03/15/2025 22:58	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*70.8 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*68.4 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*63.5 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*63.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*60.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*58.3 %*	*24-116*

Sample Information

Client Sample ID: **SB32_0-2** **York Sample ID:** **25C0496-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:21 pm	03/07/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.2	1	EPA 8270D SIM	03/16/2025 07:35	03/17/2025 14:20	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*108 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00172	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00172	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00172	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00172	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00172	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	**alpha-Chlordane**	**0.00299**		mg/kg dry	0.00172	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00172	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00172	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	**Dieldrin**	**0.00289**	P	mg/kg dry	0.00172	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00172	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00172	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00172	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00172	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00172	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00172	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00172	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: **SB32_0-2** **York Sample ID:** **25C0496-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:21 pm	03/07/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	**gamma-Chlordane**	**0.00314**		mg/kg dry	0.00172	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00172	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00172	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00172	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.172	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0344	5	EPA 8081B	03/14/2025 09:15	03/14/2025 19:52	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*68.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*81.4 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0174	1	EPA 8082A	03/14/2025 09:11	03/14/2025 19:53	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0174	1	EPA 8082A	03/14/2025 09:11	03/14/2025 19:53	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0174	1	EPA 8082A	03/14/2025 09:11	03/14/2025 19:53	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0174	1	EPA 8082A	03/14/2025 09:11	03/14/2025 19:53	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0174	1	EPA 8082A	03/14/2025 09:11	03/14/2025 19:53	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	**Aroclor 1254**	**0.0440**		mg/kg dry	0.0174	1	EPA 8082A	03/14/2025 09:11	03/14/2025 19:53	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0174	1	EPA 8082A	03/14/2025 09:11	03/14/2025 19:53	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	*** Total PCBs**	**0.0440**		mg/kg dry	0.0174	1	EPA 8082A	03/14/2025 09:11	03/14/2025 19:53	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*61.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*58.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB32_0-2** **York Sample ID:** **25C0496-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:21 pm	03/07/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0211	1	EPA 8151A	03/14/2025 09:04	03/16/2025 13:47	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0211	1	EPA 8151A	03/14/2025 09:04	03/16/2025 13:47	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0211	1	EPA 8151A	03/14/2025 09:04	03/16/2025 13:47	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*70.2 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7070**		mg/kg dry	4.42	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.21	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.75**		mg/kg dry	1.33	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**79.2**		mg/kg dry	2.21	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.296**		mg/kg dry	0.045	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.327**		mg/kg dry	0.265	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**8590**		mg/kg dry	4.42	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**14.2**		mg/kg dry	0.442	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**4.53**		mg/kg dry	0.353	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**23.5**		mg/kg dry	1.77	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**10900**		mg/kg dry	22.1	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**85.0**		mg/kg dry	0.442	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**2200**		mg/kg dry	4.42	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**208**		mg/kg dry	0.442	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**11.9**		mg/kg dry	0.880	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB32_0-2** **York Sample ID:** **25C0496-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:21 pm	03/07/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**873**		mg/kg dry	4.42	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.21	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.445	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**108**		mg/kg dry	44.2	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.77	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**19.2**		mg/kg dry	0.880	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**81.4**		mg/kg dry	2.20	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0318	1	EPA 7473	03/11/2025 15:19	03/12/2025 15:46	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.530	1	EPA 7196A	03/12/2025 09:28	03/12/2025 14:30	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**14.2**		mg/kg	0.500	1	Calculation	03/13/2025 15:00	03/13/2025 15:04	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.530	1	EPA 9014/9010C	03/12/2025 08:21	03/12/2025 14:00	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB32_0-2** **York Sample ID:** **25C0496-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:21 pm	03/07/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**94.3**		%	0.100	1	SM 2540G	03/11/2025 10:02	03/11/2025 12:00	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB32_5-7** **York Sample ID:** **25C0496-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:28 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.051	0.10	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.019**		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB32_5-7** **York Sample ID:** **25C0496-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:28 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.053**	ICVE	mg/kg dry	0.0051	0.010	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0051	0.010	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB32_5-7 **York Sample ID:** 25C0496-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:28 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0051	0.010	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0051	0.010	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB32_5-7 **York Sample ID:** 25C0496-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:28 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0076	0.015	1	EPA 8260D	03/12/2025 12:00	03/12/2025 19:39	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0898	0.179	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0898	0.179	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0898	0.179	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB32_5-7 **York Sample ID:** 25C0496-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:28 pm	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0898	0.179	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0898	0.179	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0898	0.179	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0898	0.179	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0898	0.179	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.180	0.360	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.180	0.360	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.0962**		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB32_5-7 **York Sample ID:** 25C0496-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:28 pm	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.0761**	J	mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.0746**	J	mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.0474**	J	mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.0789**	J	mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.126**		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0898	0.179	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.0919**		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND	CCVE	mg/kg dry	0.0898	0.179	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.173**		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB32_5-7 **York Sample ID:** 25C0496-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:28 pm	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.0481**	J	mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E, CCVE	mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.0703**	J	mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.121**		mg/kg dry	0.0450	0.0898	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.180	0.360	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:28	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*77.5 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*69.4 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*67.9 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*65.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*69.7 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*65.0 %*	*24-116*

Sample Information

Client Sample ID: **SB32_5-7** **York Sample ID:** **25C0496-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:28 pm	03/07/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.2	1	EPA 8270D SIM	03/16/2025 07:35	03/17/2025 14:36	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*116 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB32_5-7 **York Sample ID:** 25C0496-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:28 pm	03/07/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0352	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:09	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*76.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*89.9 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0178	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0178	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0178	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0178	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0178	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0178	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0178	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0178	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:07	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*102 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*60.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB32_5-7** **York Sample ID:** **25C0496-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:28 pm	03/07/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0215	1	EPA 8151A	03/14/2025 09:04	03/16/2025 13:54	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0215	1	EPA 8151A	03/14/2025 09:04	03/16/2025 13:54	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0215	1	EPA 8151A	03/14/2025 09:04	03/16/2025 13:54	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*73.4 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**4430**		mg/kg dry	4.51	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.26	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**1.89**		mg/kg dry	1.35	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**31.3**		mg/kg dry	2.25	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.223**		mg/kg dry	0.046	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.271	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1130**		mg/kg dry	4.52	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**10.1**		mg/kg dry	0.452	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**4.00**		mg/kg dry	0.361	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**12.6**		mg/kg dry	1.81	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**7980**		mg/kg dry	22.6	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**37.8**		mg/kg dry	0.452	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**1250**		mg/kg dry	4.52	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**118**		mg/kg dry	0.452	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**7.80**		mg/kg dry	0.899	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB32_5-7** **York Sample ID:** **25C0496-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:28 pm	03/07/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**693**		mg/kg dry	4.52	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.26	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.455	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**91.3**		mg/kg dry	45.2	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.81	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**25.6**		mg/kg dry	0.899	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**42.5**		mg/kg dry	2.25	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.170**		mg/kg dry	0.0325	1	EPA 7473	03/11/2025 15:19	03/12/2025 15:46	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.542	1	EPA 7196A	03/12/2025 09:28	03/12/2025 14:30	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**10.1**		mg/kg	0.500	1	Calculation	03/13/2025 15:00	03/13/2025 15:04	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.542	1	EPA 9014/9010C	03/12/2025 08:21	03/12/2025 14:00	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB32_5-7** **York Sample ID:** **25C0496-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 2:28 pm	03/07/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**92.3**		%	0.100	1	SM 2540G	03/11/2025 10:02	03/11/2025 12:00	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB33_0-2 **York Sample ID:** 25C0496-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:05 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.055	0.11	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB33_0-2 **York Sample ID:** 25C0496-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:05 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0055	0.011	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0055	0.011	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB33_0-2 **York Sample ID:** 25C0496-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:05 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0055	0.011	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0055	0.011	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB33_0-2 **York Sample ID:** 25C0496-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:05 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0055	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0082	0.016	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:04	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0885	0.177	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0885	0.177	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0885	0.177	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB33_0-2 **York Sample ID:** 25C0496-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:05 pm	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0885	0.177	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0885	0.177	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0885	0.177	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0885	0.177	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0885	0.177	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.177	0.354	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.177	0.354	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.112**		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB33_0-2** **York Sample ID:** **25C0496-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:05 pm	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.0827**	J	mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.0870**	J	mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.0495**	J	mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.0686**	J	mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0885	0.177	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.110**		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND	CCVE	mg/kg dry	0.0885	0.177	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.209**		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB33_0-2 **York Sample ID:** 25C0496-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:05 pm	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.0552**	J	mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E, CCVE	mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.101**		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.154**		mg/kg dry	0.0443	0.0885	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.177	0.354	2	EPA 8270E	03/15/2025 07:41	03/15/2025 23:57	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*70.4 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*65.2 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*64.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*65.8 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*63.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*64.2 %*	*24-116*

Sample Information

Client Sample ID: **SB33_0-2** **York Sample ID:** **25C0496-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:05 pm	03/07/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.2	1	EPA 8270D SIM	03/16/2025 07:35	03/17/2025 14:50	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*108 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB33_0-2 **York Sample ID:** 25C0496-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:05 pm	03/07/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.176	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0351	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:26	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*80.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*82.7 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0177	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0177	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0177	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0177	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0177	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0177	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0177	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0177	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:21	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*64.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*59.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB33_0-2** **York Sample ID:** **25C0496-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:05 pm	03/07/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0214	1	EPA 8151A	03/14/2025 09:04	03/16/2025 14:01	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0214	1	EPA 8151A	03/14/2025 09:04	03/16/2025 14:01	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0214	1	EPA 8151A	03/14/2025 09:04	03/16/2025 14:01	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*78.4 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9840**		mg/kg dry	4.51	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.25	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.48**		mg/kg dry	1.35	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**70.3**		mg/kg dry	2.25	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.407**		mg/kg dry	0.045	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.270	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**2440**		mg/kg dry	4.51	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**19.0**		mg/kg dry	0.451	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**7.47**		mg/kg dry	0.360	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**22.8**		mg/kg dry	1.80	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**15000**		mg/kg dry	22.5	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**61.4**		mg/kg dry	0.451	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**2630**		mg/kg dry	4.51	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**239**		mg/kg dry	0.451	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**17.7**		mg/kg dry	0.898	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB33_0-2** **York Sample ID:** **25C0496-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:05 pm	03/07/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1120**		mg/kg dry	4.51	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.25	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.454	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**161**		mg/kg dry	45.1	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.81	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**26.5**		mg/kg dry	0.898	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**57.1**		mg/kg dry	2.24	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0703**		mg/kg dry	0.0325	1	EPA 7473	03/11/2025 15:19	03/12/2025 15:46	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.541	1	EPA 7196A	03/12/2025 09:28	03/12/2025 14:30	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**19.0**		mg/kg	0.500	1	Calculation	03/13/2025 15:00	03/13/2025 15:04	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.541	1	EPA 9014/9010C	03/12/2025 08:21	03/12/2025 14:00	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB33_0-2** **York Sample ID:** **25C0496-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:05 pm	03/07/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**92.4**		%	0.100	1	SM 2540G	03/11/2025 10:02	03/11/2025 12:00	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB33_5-7** **York Sample ID:** **25C0496-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:12 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.053	0.11	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.021**		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB33_5-7 **York Sample ID:** 25C0496-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:12 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.057**	ICVE	mg/kg dry	0.0053	0.011	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0053	0.011	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB33_5-7 **York Sample ID:** 25C0496-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:12 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0053	0.011	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0053	0.011	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB33_5-7 **York Sample ID:** 25C0496-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:12 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0026	0.0053	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0079	0.016	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:29	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0959	0.192	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0959	0.192	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0959	0.192	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB33_5-7 **York Sample ID:** 25C0496-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:12 pm	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0959	0.192	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0959	0.192	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0959	0.192	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0959	0.192	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0959	0.192	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.192	0.384	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.192	0.384	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.0996**		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB33_5-7** **York Sample ID:** **25C0496-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:12 pm	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.0644**	J	mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.0697**	J	mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.0621**	J	mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0959	0.192	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.0904**	J	mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND	CCVE	mg/kg dry	0.0959	0.192	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.230**		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB33_5-7** **York Sample ID:** **25C0496-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:12 pm	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E, CCVE	mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.134**		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.153**		mg/kg dry	0.0481	0.0959	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.192	0.384	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:27	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*72.2 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*64.8 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*58.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*58.7 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*59.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*56.3 %*	*24-116*

Sample Information

Client Sample ID: **SB33_5-7** **York Sample ID:** **25C0496-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:12 pm	03/07/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.2	1	EPA 8270D SIM	03/16/2025 07:35	03/17/2025 13:35	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*96.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00189	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00189	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00189	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00189	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00189	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	**alpha-Chlordane**	**0.00335**		mg/kg dry	0.00189	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00189	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00189	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00189	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00189	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00189	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00189	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00189	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00189	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00189	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00189	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB33_5-7 **York Sample ID:** 25C0496-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:12 pm	03/07/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	**gamma-Chlordane**	**0.00525**	P	mg/kg dry	0.00189	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
76-44-8	Heptachlor	ND		mg/kg dry	0.00189	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00189	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-43-5	Methoxychlor	ND		mg/kg dry	0.00189	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
8001-35-2	Toxaphene	ND		mg/kg dry	0.189	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0378	5	EPA 8081B	03/14/2025 09:15	03/14/2025 20:43	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*74.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*83.4 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0191	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:35	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0191	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:35	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0191	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:35	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0191	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:35	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0191	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:35	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0191	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:35	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0191	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:35	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0191	1	EPA 8082A	03/14/2025 09:11	03/14/2025 20:35	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*64.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB33_5-7** **York Sample ID:** **25C0496-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:12 pm	03/07/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0228	1	EPA 8151A	03/14/2025 09:04	03/16/2025 14:09	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0228	1	EPA 8151A	03/14/2025 09:04	03/16/2025 14:09	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0228	1	EPA 8151A	03/14/2025 09:04	03/16/2025 14:09	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*77.8 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**10300**		mg/kg dry	4.85	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.43	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**7.07**		mg/kg dry	1.46	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**79.2**		mg/kg dry	2.42	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.422**		mg/kg dry	0.049	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.388**		mg/kg dry	0.291	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**3710**		mg/kg dry	4.85	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**26.0**		mg/kg dry	0.486	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**7.53**		mg/kg dry	0.388	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**38.7**		mg/kg dry	1.94	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**21100**		mg/kg dry	24.3	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**124**		mg/kg dry	0.486	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**2820**		mg/kg dry	4.86	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**438**		mg/kg dry	0.486	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**21.9**		mg/kg dry	0.967	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB33_5-7** **York Sample ID:** **25C0496-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:12 pm	03/07/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1260**		mg/kg dry	4.86	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.43	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.489	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**156**		mg/kg dry	48.5	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.95	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**33.0**		mg/kg dry	0.967	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**147**		mg/kg dry	2.42	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.230**		mg/kg dry	0.0349	1	EPA 7473	03/11/2025 15:19	03/12/2025 15:46	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.582	1	EPA 7196A	03/12/2025 09:28	03/12/2025 14:30	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**26.0**		mg/kg	0.500	1	Calculation	03/13/2025 15:00	03/13/2025 15:04	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.582	1	EPA 9014/9010C	03/12/2025 08:21	03/12/2025 14:00	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB33_5-7** **York Sample ID:** **25C0496-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:12 pm	03/07/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**85.8**		%	0.100	1	SM 2540G	03/11/2025 10:02	03/11/2025 12:00	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB34_0-2 **York Sample ID:** 25C0496-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:40 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.057	0.11	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB34_0-2 **York Sample ID:** 25C0496-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:40 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0057	0.011	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB34_0-2 **York Sample ID:** 25C0496-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:40 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB34_0-2** **York Sample ID:** **25C0496-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:40 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0086	0.017	1	EPA 8260D	03/12/2025 12:00	03/12/2025 20:55	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*107 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*108 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0904	0.181	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0904	0.181	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0904	0.181	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB34_0-2** **York Sample ID:** **25C0496-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:40 pm	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0904	0.181	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0904	0.181	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0904	0.181	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0904	0.181	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0904	0.181	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.181	0.362	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.0564**	J	mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.181	0.362	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.225**		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB34_0-2 **York Sample ID:** 25C0496-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:40 pm	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.171**		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.182**		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.0983**		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.159**		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.361**		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0904	0.181	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.218**		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND	CCVE	mg/kg dry	0.0904	0.181	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.403**		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB34_0-2 **York Sample ID:** 25C0496-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:40 pm	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.107**	CCVE	mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E, CCVE	mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.163**		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.327**		mg/kg dry	0.0453	0.0904	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.181	0.362	2	EPA 8270E	03/15/2025 07:41	03/16/2025 00:56	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*72.0 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*66.1 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*60.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*60.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*60.7 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*61.0 %*	*24-116*

Sample Information

Client Sample ID: **SB34_0-2** **York Sample ID:** **25C0496-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:40 pm	03/07/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.0	1	EPA 8270D SIM Certifications: NELAC-NY10854	03/13/2025 09:35	03/14/2025 16:30	SS

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*78.0 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.121	0.193	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0576	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.114	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.195	0.199	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.187	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**0.519**		ug/kg dry	0.182	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.206	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.208	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.215	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND	PF-CCV -L	ug/kg dry	0.177	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.136	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.112	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.161	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.211	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.119	0.435	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.159	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM

Sample Information

Client Sample ID: SB34_0-2 **York Sample ID:** 25C0496-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:40 pm	03/07/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.169	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.208	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.816	0.827	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.821	0.835	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.119	0.870	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.151	0.387	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:46	AM
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.210	0.435	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:46	AM
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0674	0.435	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:46	AM
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.104	0.435	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:46	AM
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.171	0.204	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.647	0.816	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.661	0.870	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.338	0.822	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.268	0.814	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
919005-14-4	* ADONA	ND		ug/kg dry	0.189	0.822	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.184	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:46	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.135	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 17:46	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.690	1.09	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:46	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.28	5.44	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:46	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND	PF-CCV-L, PF-LCS-L	ug/kg dry	1.63	5.44	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:46	AM

Sample Information

Client Sample ID: SB34_0-2 **York Sample ID:** 25C0496-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:40 pm	03/07/2025

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.665	2.18	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:46	AM
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.196	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:46	AM
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.758	2.18	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:46	AM
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.215	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 17:46	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*148 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*115 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*142 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*141 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*123 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*119 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*126 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*95.1 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*107 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*115 %*		*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*122 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*121 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*82.0 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*139 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*151 %*	PFSu-H	*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*136 %*		*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*192 %*		*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*133 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*132 %*		*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*68.9 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*64.0 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*111 %*		*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*62.9 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*58.1 %*		*25-150*

Sample Information

Client Sample ID: **SB34_0-2** **York Sample ID:** **25C0496-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:40 pm	03/07/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00177	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:01	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00177	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:01	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00177	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:01	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		mg/kg dry	0.00177	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:01	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:01	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	**alpha-Chlordane**	**0.00212**		mg/kg dry	0.00177	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:01	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
319-85-7	beta-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:01	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:01	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	**Dieldrin**	**0.00234**		mg/kg dry	0.00177	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:01	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		mg/kg dry	0.00177	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:01	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00177	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:01	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00177	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:01	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		mg/kg dry	0.00177	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:01	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00177	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:01	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00177	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:01	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00177	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:01	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	**gamma-Chlordane**	**0.00264**	P	mg/kg dry	0.00177	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:01	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00177	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:01	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00177	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:01	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00177	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:01	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.177	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:01	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB34_0-2 **York Sample ID:** 25C0496-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:40 pm	03/07/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0353	5	EPA 8081B Certifications:	03/14/2025 09:15	03/14/2025 21:01	RJ

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*68.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*79.5 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/14/2025 09:11	03/14/2025 20:49	NF
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/14/2025 09:11	03/14/2025 20:49	NF
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/14/2025 09:11	03/14/2025 20:49	NF
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/14/2025 09:11	03/14/2025 20:49	NF
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/14/2025 09:11	03/14/2025 20:49	NF
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/14/2025 09:11	03/14/2025 20:49	NF
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/14/2025 09:11	03/14/2025 20:49	NF
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0178	1	EPA 8082A Certifications:	03/14/2025 09:11	03/14/2025 20:49	NF

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*58.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*55.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0216	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/14/2025 09:04	03/16/2025 14:16	GXB
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0216	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/14/2025 09:04	03/16/2025 14:16	GXB
94-75-7	2,4-D	ND		mg/kg dry	0.0216	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/14/2025 09:04	03/16/2025 14:16	GXB

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: SB34_0-2 **York Sample ID:** 25C0496-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:40 pm	03/07/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*74.2 %*			*21-150*					

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**6980**		mg/kg dry	4.53	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.27	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.38**		mg/kg dry	1.36	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**60.2**		mg/kg dry	2.26	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.229**		mg/kg dry	0.046	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.272	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**4390**		mg/kg dry	4.53	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**16.5**		mg/kg dry	0.454	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**7.75**		mg/kg dry	0.362	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**19.4**		mg/kg dry	1.81	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**11800**		mg/kg dry	22.7	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**24.2**		mg/kg dry	0.454	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3520**		mg/kg dry	4.54	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**186**		mg/kg dry	0.454	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**12.7**		mg/kg dry	0.903	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**2150**		mg/kg dry	4.54	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.27	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.457	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB34_0-2 **York Sample ID:** 25C0496-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:40 pm	03/07/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**114**		mg/kg dry	45.3	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.82	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**20.9**		mg/kg dry	0.903	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**49.4**		mg/kg dry	2.26	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:49	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0830**		mg/kg dry	0.0326	1	EPA 7473	03/11/2025 15:19	03/12/2025 15:46	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.544	1	EPA 7196A	03/12/2025 09:28	03/12/2025 14:30	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**16.5**		mg/kg	0.500	1	Calculation	03/13/2025 15:00	03/13/2025 15:04	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.544	1	EPA 9014/9010C	03/12/2025 08:21	03/12/2025 14:00	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **SB34_0-2** **York Sample ID:** **25C0496-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:40 pm	03/07/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.9**		%	0.100	1	SM 2540G	03/11/2025 10:02	03/11/2025 12:00	SMM
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: **SB34_5-7** **York Sample ID:** **25C0496-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:46 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.067	0.13	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.0059**	J	mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB34_5-7 **York Sample ID:** 25C0496-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:46 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.023**	ICVE	mg/kg dry	0.0067	0.013	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0067	0.013	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB34_5-7 **York Sample ID:** 25C0496-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:46 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0067	0.013	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0067	0.013	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB34_5-7 **York Sample ID:** 25C0496-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:46 pm	03/07/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.010	0.020	1	EPA 8260D	03/12/2025 12:00	03/12/2025 21:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*109 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*107 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0945	0.189	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB34_5-7 **York Sample ID:** 25C0496-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:46 pm	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0945	0.189	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.189	0.378	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.0483**	J	mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.189	0.378	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.0989**		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB34_5-7 **York Sample ID:** 25C0496-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:46 pm	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.0695**	J	mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.0740**	J	mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0945	0.189	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.103**		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND	CCVE	mg/kg dry	0.0945	0.189	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.261**		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB34_5-7 **York Sample ID:** 25C0496-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:46 pm	03/07/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E, CCVE	mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.176**		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.188**		mg/kg dry	0.0474	0.0945	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.189	0.378	2	EPA 8270E	03/15/2025 07:41	03/16/2025 01:26	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*72.0 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*65.7 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*64.7 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*63.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*66.3 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*66.4 %*	*24-116*

Sample Information

Client Sample ID: **SB34_5-7** **York Sample ID:** **25C0496-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:46 pm	03/07/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.4	1	EPA 8270D SIM	03/13/2025 09:35	03/14/2025 16:45	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*78.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB34_5-7 **York Sample ID:** 25C0496-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:46 pm	03/07/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.185	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0370	5	EPA 8081B	03/14/2025 09:15	03/14/2025 21:18	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*70.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*80.9 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0187	1	EPA 8082A	03/14/2025 09:11	03/14/2025 21:02	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0187	1	EPA 8082A	03/14/2025 09:11	03/14/2025 21:02	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0187	1	EPA 8082A	03/14/2025 09:11	03/14/2025 21:02	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0187	1	EPA 8082A	03/14/2025 09:11	03/14/2025 21:02	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0187	1	EPA 8082A	03/14/2025 09:11	03/14/2025 21:02	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0187	1	EPA 8082A	03/14/2025 09:11	03/14/2025 21:02	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0187	1	EPA 8082A	03/14/2025 09:11	03/14/2025 21:02	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0187	1	EPA 8082A	03/14/2025 09:11	03/14/2025 21:02	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*85.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*57.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SB34_5-7 **York Sample ID:** 25C0496-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:46 pm	03/07/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0227	1	EPA 8151A	03/14/2025 09:04	03/16/2025 14:23	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0227	1	EPA 8151A	03/14/2025 09:04	03/16/2025 14:23	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0227	1	EPA 8151A	03/14/2025 09:04	03/16/2025 14:23	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*71.4 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9340**		mg/kg dry	4.75	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.38	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.58**		mg/kg dry	1.43	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**72.3**		mg/kg dry	2.37	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.355**		mg/kg dry	0.048	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.314**		mg/kg dry	0.285	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**2260**		mg/kg dry	4.75	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**20.2**		mg/kg dry	0.476	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**7.34**		mg/kg dry	0.380	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**29.5**		mg/kg dry	1.90	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**15300**		mg/kg dry	23.8	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**163**		mg/kg dry	0.476	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**2490**		mg/kg dry	4.76	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**259**		mg/kg dry	0.476	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**18.4**		mg/kg dry	0.947	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB34_5-7** **York Sample ID:** **25C0496-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:46 pm	03/07/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1180**		mg/kg dry	4.76	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.38	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.479	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**136**		mg/kg dry	47.5	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.90	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**41.8**		mg/kg dry	0.947	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**86.1**		mg/kg dry	2.37	1	EPA 6010D	03/12/2025 14:38	03/13/2025 11:51	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.117**		mg/kg dry	0.0342	1	EPA 7473	03/11/2025 15:19	03/12/2025 15:46	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.570	1	EPA 7196A	03/12/2025 09:28	03/12/2025 14:30	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**20.2**		mg/kg	0.500	1	Calculation	03/13/2025 15:00	03/13/2025 15:04	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.570	1	EPA 9014/9010C	03/12/2025 08:21	03/12/2025 14:00	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB34_5-7** **York Sample ID:** **25C0496-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Soil	March 7, 2025 3:46 pm	03/07/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**87.7**		%	0.100	1	SM 2540G	03/11/2025 10:02	03/11/2025 12:00	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SOTB04_030725 **York Sample ID:** 25C0496-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Water	March 7, 2025 3:00 pm	03/07/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SOTB04_030725 **York Sample ID:** 25C0496-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Water	March 7, 2025 3:00 pm	03/07/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND		ug/L	1.34	2.00	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		ug/L	0.447	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND	CCVE, QL-02	ug/L	0.119	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND	CCVE	ug/L	0.448	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	ug/L	0.372	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND	ICVE	ug/L	0.491	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SOTB04_030725 **York Sample ID:** 25C0496-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Water	March 7, 2025 3:00 pm	03/07/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND	ICVE	ug/L	0.442	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND	QL-02	ug/L	0.249	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SOTB04_030725** **York Sample ID:** **25C0496-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0496	170773001	Water	March 7, 2025 3:00 pm	03/07/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND	CCVE	ug/L	0.337	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE	ug/L	0.469	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*89.9 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*88.0 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*88.0 %*	*79-122*

Analytical Batch Summary

Batch ID: BC50581 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-01	SOFB04_030725	03/07/25
BC50581-BLK1	Blank	03/07/25
BC50581-BS1	LCS	03/07/25

Batch ID: BC50599 **Preparation Method:** EPA 5030B **Prepared By:** PMB

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-01	SOFB04_030725	03/08/25
BC50599-BLK1	Blank	03/08/25
BC50599-BS1	LCS	03/08/25

Batch ID: BC50649 **Preparation Method:** EPA 5030B **Prepared By:** PD

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-15	SOTB04_030725	03/10/25
BC50649-BLK1	Blank	03/10/25
BC50649-BS1	LCS	03/10/25

Batch ID: BC50775 **Preparation Method:** % Solids Prep **Prepared By:** SMM

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-03	SB29_0-2	03/11/25
25C0496-04	SB29_5-7	03/11/25
25C0496-05	SB30_0-2	03/11/25
25C0496-06	SB30_5-7	03/11/25

Batch ID: BC50777 **Preparation Method:** % Solids Prep **Prepared By:** SMM

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-07	SB31_0-2	03/11/25
25C0496-08	SB31_5-7	03/11/25
25C0496-09	SB32_0-2	03/11/25
25C0496-10	SB32_5-7	03/11/25
25C0496-11	SB33_0-2	03/11/25
25C0496-12	SB33_5-7	03/11/25
25C0496-13	SB34_0-2	03/11/25
25C0496-14	SB34_5-7	03/11/25
BC50777-DUP1	Duplicate	03/11/25

Batch ID: BC50781 **Preparation Method:** EPA 1633 Prep **Prepared By:** SAB

YORK Sample ID	Client Sample ID	Preparation Date

25C0496-07	SB31_0-2	03/11/25
25C0496-13	SB34_0-2	03/11/25
BC50781-BLK1	Blank	03/11/25
BC50781-BS1	LCS	03/11/25
BC50781-BS2	LCS	03/11/25

Batch ID: BC50782 **Preparation Method:** EPA 8151A **Prepared By:** YL

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-01	SOFB04_030725	03/11/25
BC50782-BLK1	Blank	03/11/25
BC50782-BS1	LCS	03/11/25

Batch ID: BC50788 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-01	SOFB04_030725	03/11/25
BC50788-BLK1	Blank	03/11/25
BC50788-BS1	LCS	03/11/25

Batch ID: BC50807 **Preparation Method:** EPA 7473 soil **Prepared By:** DRS

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-03	SB29_0-2	03/11/25
25C0496-04	SB29_5-7	03/11/25
25C0496-05	SB30_0-2	03/11/25
25C0496-06	SB30_5-7	03/11/25
25C0496-07	SB31_0-2	03/11/25
25C0496-08	SB31_5-7	03/11/25
25C0496-09	SB32_0-2	03/11/25
25C0496-10	SB32_5-7	03/11/25
25C0496-11	SB33_0-2	03/11/25
25C0496-12	SB33_5-7	03/11/25
25C0496-13	SB34_0-2	03/11/25
25C0496-14	SB34_5-7	03/11/25
BC50807-BLK1	Blank	03/11/25
BC50807-DUP1	Duplicate	03/11/25
BC50807-MS1	Matrix Spike	03/11/25
BC50807-SRM1	Reference	03/11/25

Batch ID: BC50840 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-01	SOFB04_030725	03/12/25
BC50840-BLK1	Blank	03/12/25
BC50840-BS1	LCS	03/12/25

Batch ID: BC50842 **Preparation Method:** EPA SW846-7470A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-01	SOFB04_030725	03/12/25
BC50842-BLK1	Blank	03/12/25
BC50842-BLK2	Blank	03/12/25
BC50842-BS1	LCS	03/12/25
BC50842-BS2	LCS	03/12/25

Batch ID: BC50851 **Preparation Method:** Analysis Preparation Soil **Prepared By:** LJM

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-03	SB29_0-2	03/12/25
25C0496-04	SB29_5-7	03/12/25
25C0496-05	SB30_0-2	03/12/25
25C0496-06	SB30_5-7	03/12/25
25C0496-07	SB31_0-2	03/12/25
25C0496-08	SB31_5-7	03/12/25
25C0496-09	SB32_0-2	03/12/25
25C0496-10	SB32_5-7	03/12/25
25C0496-11	SB33_0-2	03/12/25
25C0496-12	SB33_5-7	03/12/25
25C0496-13	SB34_0-2	03/12/25
25C0496-14	SB34_5-7	03/12/25
BC50851-BLK1	Blank	03/12/25
BC50851-DUP1	Duplicate	03/12/25
BC50851-MS1	Matrix Spike	03/12/25
BC50851-MSD1	Matrix Spike Dup	03/12/25
BC50851-SRM1	Reference	03/12/25

Batch ID: BC50858 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-01	SOFB04_030725	03/12/25
BC50858-BLK1	Blank	03/12/25
BC50858-BS1	LCS	03/12/25
BC50858-DUP1	Duplicate	03/12/25
BC50858-MS1	Matrix Spike	03/12/25

Batch ID: BC50871 **Preparation Method:** EPA SW846-3060 **Prepared By:** JAMT

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-03	SB29_0-2	03/12/25
25C0496-04	SB29_5-7	03/12/25
25C0496-05	SB30_0-2	03/12/25
25C0496-06	SB30_5-7	03/12/25
25C0496-07	SB31_0-2	03/12/25
25C0496-08	SB31_5-7	03/12/25
25C0496-09	SB32_0-2	03/12/25
25C0496-10	SB32_5-7	03/12/25

25C0496-11	SB33_0-2	03/12/25
25C0496-12	SB33_5-7	03/12/25
25C0496-13	SB34_0-2	03/12/25
25C0496-14	SB34_5-7	03/12/25
BC50871-BLK1	Blank	03/12/25
BC50871-DUP1	Duplicate	03/12/25
BC50871-MS1	Matrix Spike	03/12/25
BC50871-MSD1	Matrix Spike Dup	03/12/25
BC50871-SRM1	Reference	03/12/25

Batch ID: BC50895 **Preparation Method:** EPA 3510C **Prepared By:** SAC2

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-01	SOFB04_030725	03/12/25
BC50895-BLK2	Blank	03/13/25
BC50895-BS2	LCS	03/13/25

Batch ID: BC50896 **Preparation Method:** EPA 3510C **Prepared By:** SAC2

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-01	SOFB04_030725	03/13/25
BC50896-BLK1	Blank	03/13/25
BC50896-BS1	LCS	03/13/25

Batch ID: BC50897 **Preparation Method:** EPA 3050B **Prepared By:** KMQ

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-03	SB29_0-2	03/12/25
25C0496-04	SB29_5-7	03/12/25
25C0496-05	SB30_0-2	03/12/25
25C0496-06	SB30_5-7	03/12/25
25C0496-07	SB31_0-2	03/12/25
25C0496-08	SB31_5-7	03/12/25
25C0496-09	SB32_0-2	03/12/25
25C0496-10	SB32_5-7	03/12/25
25C0496-11	SB33_0-2	03/12/25
25C0496-12	SB33_5-7	03/12/25
25C0496-13	SB34_0-2	03/12/25
25C0496-14	SB34_5-7	03/12/25
BC50897-BLK1	Blank	03/12/25
BC50897-DUP1	Duplicate	03/12/25
BC50897-MS1	Matrix Spike	03/12/25
BC50897-PS1	Post Spike	03/12/25
BC50897-SRM1	Reference	03/12/25

Batch ID: BC50915 **Preparation Method:** EPA 5035A **Prepared By:** AC

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-03	SB29_0-2	03/12/25

25C0496-04	SB29_5-7	03/12/25
25C0496-05	SB30_0-2	03/12/25
25C0496-06	SB30_5-7	03/12/25
25C0496-07	SB31_0-2	03/12/25
25C0496-08	SB31_5-7	03/12/25
25C0496-09	SB32_0-2	03/12/25
25C0496-10	SB32_5-7	03/12/25
25C0496-11	SB33_0-2	03/12/25
25C0496-12	SB33_5-7	03/12/25
25C0496-13	SB34_0-2	03/12/25
25C0496-14	SB34_5-7	03/12/25
BC50915-BLK1	Blank	03/12/25
BC50915-BS1	LCS	03/12/25
BC50915-BSD1	LCS Dup	03/12/25
BC50915-MS1	Matrix Spike	03/12/25
BC50915-MSD1	Matrix Spike Dup	03/12/25

Batch ID: BC50947 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** AJC

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-01	SOFB04_030725	03/13/25
BC50947-BLK1	Blank	03/13/25
BC50947-BS2	LCS	03/13/25

Batch ID: BC50949 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** AJC

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-01	SOFB04_030725	03/13/25
BC50949-BLK1	Blank	03/13/25
BC50949-BS1	LCS	03/13/25

Batch ID: BC50952 **Preparation Method:** EPA 3550C **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-03	SB29_0-2	03/13/25
25C0496-04	SB29_5-7	03/13/25
25C0496-05	SB30_0-2	03/13/25
25C0496-06	SB30_5-7	03/13/25
25C0496-07	SB31_0-2	03/13/25
25C0496-08	SB31_5-7	03/13/25
BC50952-BLK1	Blank	03/13/25
BC50952-BS2	LCS	03/13/25

Batch ID: BC50955 **Preparation Method:** EPA 3550C **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-03	SB29_0-2	03/13/25
25C0496-04	SB29_5-7	03/13/25
25C0496-05	SB30_0-2	03/13/25

25C0496-06	SB30_5-7	03/13/25
25C0496-07	SB31_0-2	03/13/25
25C0496-08	SB31_5-7	03/13/25
BC50955-BLK1	Blank	03/13/25
BC50955-BS1	LCS	03/13/25

Batch ID: BC50970 **Preparation Method:** EPA 3550C **Prepared By:** JAA

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-13	SB34_0-2	03/13/25
25C0496-14	SB34_5-7	03/13/25
BC50970-BLK1	Blank	03/13/25
BC50970-BS1	LCS	03/13/25

Batch ID: BC50990 **Preparation Method:** Analysis Preparation **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-01	SOFB04_030725	03/13/25

Batch ID: BC51002 **Preparation Method:** EPA 3535A **Prepared By:** NMB2

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-01	SOFB04_030725	03/13/25
BC51002-BLK1	Blank	03/13/25
BC51002-BS1	LCS	03/13/25

Batch ID: BC51021 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-03	SB29_0-2	03/13/25
25C0496-04	SB29_5-7	03/13/25
25C0496-05	SB30_0-2	03/13/25
25C0496-06	SB30_5-7	03/13/25
25C0496-07	SB31_0-2	03/13/25
25C0496-08	SB31_5-7	03/13/25
25C0496-09	SB32_0-2	03/13/25
25C0496-10	SB32_5-7	03/13/25
25C0496-11	SB33_0-2	03/13/25
25C0496-12	SB33_5-7	03/13/25
25C0496-13	SB34_0-2	03/13/25
25C0496-14	SB34_5-7	03/13/25

Batch ID: BC51068 **Preparation Method:** EPA 3550C/8151A **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-03	SB29_0-2	03/14/25
25C0496-04	SB29_5-7	03/14/25
25C0496-05	SB30_0-2	03/14/25

25C0496-06	SB30_5-7	03/14/25
25C0496-07	SB31_0-2	03/14/25
25C0496-08	SB31_5-7	03/14/25
25C0496-09	SB32_0-2	03/14/25
25C0496-10	SB32_5-7	03/14/25
25C0496-11	SB33_0-2	03/14/25
25C0496-12	SB33_5-7	03/14/25
25C0496-13	SB34_0-2	03/14/25
25C0496-14	SB34_5-7	03/14/25
BC51068-BLK1	Blank	03/14/25
BC51068-BS1	LCS	03/14/25
BC51068-MS1	Matrix Spike	03/14/25
BC51068-MSD1	Matrix Spike Dup	03/14/25

Batch ID: BC51071 **Preparation Method:** EPA 3550C **Prepared By:** JAA

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-09	SB32_0-2	03/14/25
25C0496-10	SB32_5-7	03/14/25
25C0496-11	SB33_0-2	03/14/25
25C0496-12	SB33_5-7	03/14/25
25C0496-13	SB34_0-2	03/14/25
25C0496-14	SB34_5-7	03/14/25
BC51071-BLK2	Blank	03/14/25
BC51071-BS2	LCS	03/14/25

Batch ID: BC51072 **Preparation Method:** EPA 3550C **Prepared By:** JAA

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-09	SB32_0-2	03/14/25
25C0496-10	SB32_5-7	03/14/25
25C0496-11	SB33_0-2	03/14/25
25C0496-12	SB33_5-7	03/14/25
25C0496-13	SB34_0-2	03/14/25
25C0496-14	SB34_5-7	03/14/25
BC51072-BLK1	Blank	03/14/25
BC51072-BS1	LCS	03/14/25
BC51072-MS1	Matrix Spike	03/14/25
BC51072-MSD1	Matrix Spike Dup	03/14/25

Batch ID: BC51135 **Preparation Method:** EPA 3550C **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-03	SB29_0-2	03/15/25
25C0496-04	SB29_5-7	03/15/25
25C0496-05	SB30_0-2	03/15/25
25C0496-06	SB30_5-7	03/15/25
25C0496-07	SB31_0-2	03/15/25
25C0496-08	SB31_5-7	03/15/25
25C0496-09	SB32_0-2	03/15/25

25C0496-10	SB32_5-7	03/15/25
25C0496-11	SB33_0-2	03/15/25
25C0496-12	SB33_5-7	03/15/25
25C0496-13	SB34_0-2	03/15/25
25C0496-14	SB34_5-7	03/15/25
BC51135-BLK1	Blank	03/15/25
BC51135-BS1	LCS	03/15/25
BC51135-MS1	Matrix Spike	03/15/25
BC51135-MSD1	Matrix Spike Dup	03/15/25

Batch ID: BC51148 **Preparation Method:** EPA 3550C **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-03	SB29_0-2	03/16/25
25C0496-04	SB29_5-7	03/16/25
25C0496-05	SB30_0-2	03/16/25
25C0496-06	SB30_5-7	03/16/25
25C0496-07	SB31_0-2	03/16/25
25C0496-08	SB31_5-7	03/16/25
25C0496-09	SB32_0-2	03/16/25
25C0496-10	SB32_5-7	03/16/25
25C0496-11	SB33_0-2	03/16/25
25C0496-12	SB33_5-7	03/16/25
BC51148-BLK1	Blank	03/16/25
BC51148-BS1	LCS	03/16/25
BC51148-MS1	Matrix Spike	03/16/25
BC51148-MSD1	Matrix Spike Dup	03/16/25

Batch ID: BC51162 **Preparation Method:** EPA 1633 Prep **Prepared By:** MPR

YORK Sample ID	Client Sample ID	Preparation Date
25C0496-02	SOFB04_PFAS_030725	03/16/25
BC51162-BLK1	Blank	03/16/25
BC51162-BS1	LCS	03/16/25
BC51162-BS2	LCS	03/16/25

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50599 - EPA 5030B											
Blank (BC50599-BLK1) Blank									Prepared & Analyzed: 03/08/2025		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50599 - EPA 5030B											
Blank (BC50599-BLK1) Blank							Prepared & Analyzed: 03/08/2025				
n-Butylbenzene	ND	0.500	ug/L								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.15*		*"*	*10.0*		*91.5*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.06*		*"*	*10.0*		*90.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.09*		*"*	*10.0*		*90.9*	*79-122*				
LCS (BC50599-BS1) LCS							Prepared & Analyzed: 03/08/2025				
1,1,1,2-Tetrachloroethane	9.27		ug/L	10.0		92.7	82-126				
1,1,1-Trichloroethane	9.26		"	10.0		92.6	78-136				
1,1,2,2-Tetrachloroethane	9.56		"	10.0		95.6	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.6		"	10.0		116	54-165				
1,1,2-Trichloroethane	9.19		"	10.0		91.9	82-123				
1,1-Dichloroethane	9.51		"	10.0		95.1	82-129				
1,1-Dichloroethylene	9.70		"	10.0		97.0	68-138				
1,2,3-Trichlorobenzene	11.8		"	10.0		118	76-136				
1,2,3-Trichloropropane	8.38		"	10.0		83.8	77-128				
1,2,4-Trichlorobenzene	11.2		"	10.0		112	76-137				
1,2,4-Trimethylbenzene	9.13		"	10.0		91.3	82-132				
1,2-Dibromo-3-chloropropane	8.64		"	10.0		86.4	45-147				
1,2-Dibromoethane	9.35		"	10.0		93.5	83-124				
1,2-Dichlorobenzene	9.02		"	10.0		90.2	79-123				
1,2-Dichloroethane	9.18		"	10.0		91.8	73-132				
1,2-Dichloropropane	8.31		"	10.0		83.1	78-126				
1,3,5-Trimethylbenzene	8.95		"	10.0		89.5	80-131				
1,3-Dichlorobenzene	9.07		"	10.0		90.7	86-122				
1,4-Dichlorobenzene	9.09		"	10.0		90.9	85-124				
1,4-Dioxane	192		"	210		91.3	10-349				
2-Butanone	11.2		"	10.0		112	49-152				
2-Hexanone	8.03		"	10.0		80.3	51-146				
4-Methyl-2-pentanone	8.23		"	10.0		82.3	57-145				
Acetone	7.32		"	10.0		73.2	14-150				
Acrolein	20.4		"	10.0		204	10-153	High Bias			
Acrylonitrile	10.4		"	10.0		104	51-150				
Benzene	10.6		"	10.0		106	85-126				
Bromochloromethane	9.30		"	10.0		93.0	77-128				
Bromodichloromethane	8.46		"	10.0		84.6	79-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50599 - EPA 5030B											
LCS (BC50599-BS1) LCS							Prepared & Analyzed: 03/08/2025				
Bromoform	9.36		ug/L	10.0		93.6	78-133				
Bromomethane	4.59		"	10.0		45.9	43-168				
Carbon disulfide	11.6		"	10.0		116	68-146				
Carbon tetrachloride	9.97		"	10.0		99.7	77-141				
Chlorobenzene	9.14		"	10.0		91.4	88-120				
Chloroethane	8.30		"	10.0		83.0	65-136				
Chloroform	9.67		"	10.0		96.7	82-128				
Chloromethane	6.57		"	10.0		65.7	43-155				
cis-1,2-Dichloroethylene	9.92		"	10.0		99.2	83-129				
cis-1,3-Dichloropropylene	8.90		"	10.0		89.0	80-131				
Cyclohexane	10.4		"	10.0		104	63-149				
Dibromochloromethane	9.72		"	10.0		97.2	80-130				
Dibromomethane	8.44		"	10.0		84.4	72-134				
Dichlorodifluoromethane	9.91		"	10.0		99.1	44-144				
Ethyl Benzene	9.01		"	10.0		90.1	80-131				
Hexachlorobutadiene	11.1		"	10.0		111	67-146				
Isopropylbenzene	8.94		"	10.0		89.4	76-140				
Methyl acetate	12.0		"	10.0		120	51-139				
Methyl tert-butyl ether (MTBE)	10.3		"	10.0		103	76-135				
Methylcyclohexane	9.39		"	10.0		93.9	72-143				
Methylene chloride	9.19		"	10.0		91.9	55-137				
n-Butylbenzene	8.86		"	10.0		88.6	79-132				
n-Propylbenzene	8.72		"	10.0		87.2	78-133				
o-Xylene	8.82		"	10.0		88.2	78-130				
p- & m- Xylenes	15.6		"	20.0		78.2	77-133				
p-Isopropyltoluene	9.49		"	10.0		94.9	81-136				
sec-Butylbenzene	9.18		"	10.0		91.8	79-137				
Styrene	9.69		"	10.0		96.9	67-132				
tert-Butyl alcohol (TBA)	54.7		"	50.0		109	25-162				
tert-Butylbenzene	9.03		"	10.0		90.3	77-138				
Tetrachloroethylene	5.07		"	10.0		50.7	82-131	Low Bias			
Toluene	8.84		"	10.0		88.4	80-127				
trans-1,2-Dichloroethylene	9.65		"	10.0		96.5	80-132				
trans-1,3-Dichloropropylene	8.75		"	10.0		87.5	78-131				
Trichloroethylene	7.99		"	10.0		79.9	82-128	Low Bias			
Trichlorofluoromethane	8.05		"	10.0		80.5	67-139				
Vinyl Chloride	8.16		"	10.0		81.6	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.05*		*"*	*10.0*		*90.5*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.04*		*"*	*10.0*		*90.4*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.20*		*"*	*10.0*		*92.0*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50649 - EPA 5030B											
Blank (BC50649-BLK1) Blank									Prepared & Analyzed: 03/10/2025		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50649 - EPA 5030B											
Blank (BC50649-BLK1) Blank							Prepared & Analyzed: 03/10/2025				
n-Propylbenzene	ND	0.500	ug/L								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*8.99*		*"*	*10.0*		*89.9*	*69-130*				
Surrogate: SURR: Toluene-d8	*8.85*		*"*	*10.0*		*88.5*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*8.94*		*"*	*10.0*		*89.4*	*79-122*				
LCS (BC50649-BS1) LCS							Prepared & Analyzed: 03/10/2025				
1,1,1,2-Tetrachloroethane	9.28		ug/L	10.0		92.8	82-126				
1,1,1-Trichloroethane	10.0		"	10.0		100	78-136				
1,1,2,2-Tetrachloroethane	9.08		"	10.0		90.8	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13.2		"	10.0		132	54-165				
1,1,2-Trichloroethane	8.85		"	10.0		88.5	82-123				
1,1-Dichloroethane	9.79		"	10.0		97.9	82-129				
1,1-Dichloroethylene	10.5		"	10.0		105	68-138				
1,2,3-Trichlorobenzene	11.0		"	10.0		110	76-136				
1,2,3-Trichloropropane	8.21		"	10.0		82.1	77-128				
1,2,4-Trichlorobenzene	10.8		"	10.0		108	76-137				
1,2,4-Trimethylbenzene	8.81		"	10.0		88.1	82-132				
1,2-Dibromo-3-chloropropane	8.36		"	10.0		83.6	45-147				
1,2-Dibromoethane	9.31		"	10.0		93.1	83-124				
1,2-Dichlorobenzene	8.79		"	10.0		87.9	79-123				
1,2-Dichloroethane	9.20		"	10.0		92.0	73-132				
1,2-Dichloropropane	7.96		"	10.0		79.6	78-126				
1,3,5-Trimethylbenzene	8.58		"	10.0		85.8	80-131				
1,3-Dichlorobenzene	8.86		"	10.0		88.6	86-122				
1,4-Dichlorobenzene	8.93		"	10.0		89.3	85-124				
1,4-Dioxane	190		"	210		90.3	10-349				
2-Butanone	11.1		"	10.0		111	49-152				
2-Hexanone	7.32		"	10.0		73.2	51-146				
4-Methyl-2-pentanone	7.51		"	10.0		75.1	57-145				
Acetone	6.79		"	10.0		67.9	14-150				
Acrolein	20.6		"	10.0		206	10-153	High Bias			
Acrylonitrile	10.4		"	10.0		104	51-150				
Benzene	11.1		"	10.0		111	85-126				
Bromochloromethane	9.26		"	10.0		92.6	77-128				
Bromodichloromethane	8.40		"	10.0		84.0	79-128				
Bromoform	9.94		"	10.0		99.4	78-133				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50649 - EPA 5030B											
LCS (BC50649-BS1) LCS							Prepared & Analyzed: 03/10/2025				
Bromomethane	3.69		ug/L	10.0		36.9	43-168	Low Bias			
Carbon disulfide	13.2		"	10.0		132	68-146				
Carbon tetrachloride	10.9		"	10.0		109	77-141				
Chlorobenzene	9.12		"	10.0		91.2	88-120				
Chloroethane	8.11		"	10.0		81.1	65-136				
Chloroform	9.94		"	10.0		99.4	82-128				
Chloromethane	7.41		"	10.0		74.1	43-155				
cis-1,2-Dichloroethylene	10.1		"	10.0		101	83-129				
cis-1,3-Dichloropropylene	8.86		"	10.0		88.6	80-131				
Cyclohexane	11.0		"	10.0		110	63-149				
Dibromochloromethane	9.85		"	10.0		98.5	80-130				
Dibromomethane	8.37		"	10.0		83.7	72-134				
Dichlorodifluoromethane	15.0		"	10.0		150	44-144	High Bias			
Ethyl Benzene	8.97		"	10.0		89.7	80-131				
Hexachlorobutadiene	11.3		"	10.0		113	67-146				
Isopropylbenzene	8.81		"	10.0		88.1	76-140				
Methyl acetate	11.9		"	10.0		119	51-139				
Methyl tert-butyl ether (MTBE)	10.7		"	10.0		107	76-135				
Methylcyclohexane	9.47		"	10.0		94.7	72-143				
Methylene chloride	9.34		"	10.0		93.4	55-137				
n-Butylbenzene	8.30		"	10.0		83.0	79-132				
n-Propylbenzene	8.46		"	10.0		84.6	78-133				
o-Xylene	8.67		"	10.0		86.7	78-130				
p- & m- Xylenes	15.4		"	20.0		77.1	77-133				
p-Isopropyltoluene	9.13		"	10.0		91.3	81-136				
sec-Butylbenzene	8.88		"	10.0		88.8	79-137				
Styrene	9.70		"	10.0		97.0	67-132				
tert-Butyl alcohol (TBA)	54.9		"	50.0		110	25-162				
tert-Butylbenzene	8.73		"	10.0		87.3	77-138				
Tetrachloroethylene	5.36		"	10.0		53.6	82-131	Low Bias			
Toluene	8.86		"	10.0		88.6	80-127				
trans-1,2-Dichloroethylene	10.2		"	10.0		102	80-132				
trans-1,3-Dichloropropylene	8.76		"	10.0		87.6	78-131				
Trichloroethylene	8.18		"	10.0		81.8	82-128	Low Bias			
Trichlorofluoromethane	8.40		"	10.0		84.0	67-139				
Vinyl Chloride	8.50		"	10.0		85.0	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*8.80*		*"*	*10.0*		*88.0*	*69-130*				
Surrogate: SURR: Toluene-d8	*8.86*		*"*	*10.0*		*88.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.04*		*"*	*10.0*		*90.4*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50915 - EPA 5035A											
Blank (BC50915-BLK1) Blank									Prepared & Analyzed: 03/12/2025		
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50915 - EPA 5035A											
Blank (BC50915-BLK1) Blank							Prepared & Analyzed: 03/12/2025				
n-Propylbenzene	ND	0.0050	mg/kg wet								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.7*		*ug/L*	*50.0*		*103*	*77-125*				
Surrogate: SURR: Toluene-d8	*52.6*		*"*	*50.0*		*105*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*52.8*		*"*	*50.0*		*106*	*76-130*				
LCS (BC50915-BS1) LCS							Prepared & Analyzed: 03/12/2025				
1,1,1,2-Tetrachloroethane	49.7		ug/L	50.0		99.3	75-129				
1,1,1-Trichloroethane	46.6		"	50.0		93.1	71-137				
1,1,2,2-Tetrachloroethane	56.7		"	50.0		113	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	48.1		"	50.0		96.2	58-146				
1,1,2-Trichloroethane	51.1		"	50.0		102	83-123				
1,1-Dichloroethane	52.1		"	50.0		104	75-130				
1,1-Dichloroethylene	53.8		"	50.0		108	64-137				
1,2,3-Trichlorobenzene	47.8		"	50.0		95.6	81-140				
1,2,3-Trichloropropane	54.2		"	50.0		108	81-126				
1,2,4-Trichlorobenzene	48.1		"	50.0		96.2	80-141				
1,2,4-Trimethylbenzene	53.6		"	50.0		107	84-125				
1,2-Dibromo-3-chloropropane	56.4		"	50.0		113	74-142				
1,2-Dibromoethane	50.8		"	50.0		102	86-123				
1,2-Dichlorobenzene	50.9		"	50.0		102	85-122				
1,2-Dichloroethane	51.9		"	50.0		104	71-133				
1,2-Dichloropropane	55.7		"	50.0		111	81-122				
1,3,5-Trimethylbenzene	54.0		"	50.0		108	82-126				
1,3-Dichlorobenzene	49.8		"	50.0		99.5	84-124				
1,4-Dichlorobenzene	49.9		"	50.0		99.9	84-124				
1,4-Dioxane	1000		"	1050		95.5	10-228				
2-Butanone	42.1		"	50.0		84.1	58-147				
2-Hexanone	43.0		"	50.0		86.0	70-139				
4-Methyl-2-pentanone	36.2		"	50.0		72.5	72-132				
Acetone	25.1		"	50.0		50.3	36-155				
Acrolein	40.5		"	50.0		80.9	10-238				
Acrylonitrile	53.0		"	50.0		106	66-141				
Benzene	49.8		"	50.0		99.6	77-127				
Bromochloromethane	49.2		"	50.0		98.5	74-129				
Bromodichloromethane	56.9		"	50.0		114	81-124				
Bromoform	53.2		"	50.0		106	80-136				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50915 - EPA 5035A											
LCS (BC50915-BS1) LCS							Prepared & Analyzed: 03/12/2025				
Bromomethane	60.8		ug/L	50.0		122	32-177				
Carbon disulfide	50.0		"	50.0		100	10-136				
Carbon tetrachloride	47.7		"	50.0		95.4	66-143				
Chlorobenzene	50.2		"	50.0		100	86-120				
Chloroethane	53.0		"	50.0		106	51-142				
Chloroform	50.0		"	50.0		99.9	76-131				
Chloromethane	44.9		"	50.0		89.8	49-132				
cis-1,2-Dichloroethylene	50.7		"	50.0		101	74-132				
cis-1,3-Dichloropropylene	48.0		"	50.0		95.9	81-129				
Cyclohexane	51.8		"	50.0		104	70-130				
Dibromochloromethane	55.0		"	50.0		110	10-200				
Dibromomethane	51.8		"	50.0		104	83-124				
Dichlorodifluoromethane	44.0		"	50.0		88.0	28-158				
Ethyl Benzene	53.3		"	50.0		107	84-125				
Hexachlorobutadiene	45.1		"	50.0		90.2	83-133				
Isopropylbenzene	53.8		"	50.0		108	81-127				
Methyl acetate	32.3		"	50.0		64.6	41-143				
Methyl tert-butyl ether (MTBE)	41.4		"	50.0		82.7	74-131				
Methylcyclohexane	50.0		"	50.0		100	70-130				
Methylene chloride	48.5		"	50.0		97.1	57-141				
n-Butylbenzene	55.8		"	50.0		112	80-130				
n-Propylbenzene	55.2		"	50.0		110	74-136				
o-Xylene	52.0		"	50.0		104	83-123				
p- & m- Xylenes	105		"	100		105	82-128				
p-Isopropyltoluene	55.2		"	50.0		110	85-125				
sec-Butylbenzene	53.6		"	50.0		107	83-125				
Styrene	52.6		"	50.0		105	86-126				
tert-Butyl alcohol (TBA)	153		"	250		61.0	70-130	Low Bias			
tert-Butylbenzene	46.4		"	50.0		92.9	80-127				
Tetrachloroethylene	40.7		"	50.0		81.4	80-129				
Toluene	51.5		"	50.0		103	85-121				
trans-1,2-Dichloroethylene	50.5		"	50.0		101	72-132				
trans-1,3-Dichloropropylene	45.7		"	50.0		91.5	78-132				
Trichloroethylene	51.8		"	50.0		104	84-123				
Trichlorofluoromethane	47.8		"	50.0		95.7	62-140				
Vinyl Chloride	51.6		"	50.0		103	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*53.0*		*"*	*50.0*		*106*	*77-125*				
Surrogate: SURR: Toluene-d8	*52.9*		*"*	*50.0*		*106*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*53.0*		*"*	*50.0*		*106*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50915 - EPA 5035A											
LCS Dup (BC50915-BSD1) LCS Dup							Prepared & Analyzed: 03/12/2025				
1,1,1,2-Tetrachloroethane	53.2		ug/L	50.0		106	75-129		6.83	30	
1,1,1-Trichloroethane	49.9		"	50.0		99.8	71-137		6.97	30	
1,1,2,2-Tetrachloroethane	60.0		"	50.0		120	79-129		5.74	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53.3		"	50.0		107	58-146		10.1	30	
1,1,2-Trichloroethane	55.4		"	50.0		111	83-123		8.17	30	
1,1-Dichloroethane	55.4		"	50.0		111	75-130		6.23	30	
1,1-Dichloroethylene	58.8		"	50.0		118	64-137		8.93	30	
1,2,3-Trichlorobenzene	50.9		"	50.0		102	81-140		6.38	30	
1,2,3-Trichloropropane	58.2		"	50.0		116	81-126		7.22	30	
1,2,4-Trichlorobenzene	50.9		"	50.0		102	80-141		5.70	30	
1,2,4-Trimethylbenzene	57.0		"	50.0		114	84-125		6.06	30	
1,2-Dibromo-3-chloropropane	57.4		"	50.0		115	74-142		1.74	30	
1,2-Dibromoethane	52.6		"	50.0		105	86-123		3.50	30	
1,2-Dichlorobenzene	54.0		"	50.0		108	85-122		5.91	30	
1,2-Dichloroethane	54.6		"	50.0		109	71-133		5.24	30	
1,2-Dichloropropane	58.8		"	50.0		118	81-122		5.28	30	
1,3,5-Trimethylbenzene	57.1		"	50.0		114	82-126		5.62	30	
1,3-Dichlorobenzene	53.5		"	50.0		107	84-124		7.21	30	
1,4-Dichlorobenzene	53.9		"	50.0		108	84-124		7.59	30	
1,4-Dioxane	946		"	1050		90.0	10-228		5.87	30	
2-Butanone	42.9		"	50.0		85.8	58-147		1.98	30	
2-Hexanone	42.2		"	50.0		84.5	70-139		1.81	30	
4-Methyl-2-pentanone	37.1		"	50.0		74.3	72-132		2.43	30	
Acetone	26.3		"	50.0		52.7	36-155		4.62	30	
Acrolein	45.1		"	50.0		90.2	10-238		10.8	30	
Acrylonitrile	54.3		"	50.0		109	66-141		2.46	30	
Benzene	53.5		"	50.0		107	77-127		7.18	30	
Bromochloromethane	52.0		"	50.0		104	74-129		5.36	30	
Bromodichloromethane	59.6		"	50.0		119	81-124		4.55	30	
Bromoform	57.4		"	50.0		115	80-136		7.50	30	
Bromomethane	65.1		"	50.0		130	32-177		6.85	30	
Carbon disulfide	54.2		"	50.0		108	10-136		7.98	30	
Carbon tetrachloride	52.6		"	50.0		105	66-143		9.65	30	
Chlorobenzene	53.0		"	50.0		106	86-120		5.49	30	
Chloroethane	55.5		"	50.0		111	51-142		4.59	30	
Chloroform	53.7		"	50.0		107	76-131		7.27	30	
Chloromethane	42.5		"	50.0		85.1	49-132		5.42	30	
cis-1,2-Dichloroethylene	53.7		"	50.0		107	74-132		5.71	30	
cis-1,3-Dichloropropylene	50.3		"	50.0		101	81-129		4.80	30	
Cyclohexane	54.4		"	50.0		109	70-130		5.07	30	
Dibromochloromethane	58.8		"	50.0		118	10-200		6.76	30	
Dibromomethane	54.9		"	50.0		110	83-124		5.81	30	
Dichlorodifluoromethane	45.3		"	50.0		90.6	28-158		2.98	30	
Ethyl Benzene	56.8		"	50.0		114	84-125		6.38	30	
Hexachlorobutadiene	48.5		"	50.0		97.0	83-133		7.25	30	
Isopropylbenzene	56.9		"	50.0		114	81-127		5.58	30	
Methyl acetate	35.7		"	50.0		71.3	41-143		9.89	30	
Methyl tert-butyl ether (MTBE)	42.9		"	50.0		85.8	74-131		3.63	30	
Methylcyclohexane	52.0		"	50.0		104	70-130		3.90	30	
Methylene chloride	51.7		"	50.0		103	57-141		6.34	30	
n-Butylbenzene	59.2		"	50.0		118	80-130		6.02	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50915 - EPA 5035A											
LCS Dup (BC50915-BSD1) LCS Dup							Prepared & Analyzed: 03/12/2025				
n-Propylbenzene	58.4		ug/L	50.0		117	74-136		5.69	30	
o-Xylene	54.5		"	50.0		109	83-123		4.71	30	
p- & m- Xylenes	111		"	100		111	82-128		5.78	30	
p-Isopropyltoluene	59.6		"	50.0		119	85-125		7.49	30	
sec-Butylbenzene	56.9		"	50.0		114	83-125		5.92	30	
Styrene	56.0		"	50.0		112	86-126		6.17	30	
tert-Butyl alcohol (TBA)	154		"	250		61.7	70-130	Low Bias	1.13	30	
tert-Butylbenzene	49.6		"	50.0		99.1	80-127		6.46	30	
Tetrachloroethylene	43.5		"	50.0		87.0	80-129		6.62	30	
Toluene	54.8		"	50.0		110	85-121		6.13	30	
trans-1,2-Dichloroethylene	56.1		"	50.0		112	72-132		10.5	30	
trans-1,3-Dichloropropylene	47.9		"	50.0		95.8	78-132		4.68	30	
Trichloroethylene	55.1		"	50.0		110	84-123		6.21	30	
Trichlorofluoromethane	51.2		"	50.0		102	62-140		6.80	30	
Vinyl Chloride	54.2		"	50.0		108	52-130		4.80	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.5*		*"*	*50.0*		*103*	*77-125*				
Surrogate: SURR: Toluene-d8	*52.3*		*"*	*50.0*		*105*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*51.4*		*"*	*50.0*		*103*	*76-130*				
Matrix Spike (BC50915-MS1) Matrix Spike	*Source sample: 25C0496-11 (SB33_0-2)						Prepared & Analyzed: 03/12/2025				
1,1,1,2-Tetrachloroethane	43.3		ug/L	50.0	0.00	86.6	15-161				
1,1,1-Trichloroethane	44.5		"	50.0	0.00	89.1	42-145				
1,1,2,2-Tetrachloroethane	54.3		"	50.0	0.00	109	16-167				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	41.6		"	50.0	0.00	83.1	11-160				
1,1,2-Trichloroethane	55.2		"	50.0	0.00	110	44-145				
1,1-Dichloroethane	53.1		"	50.0	0.00	106	46-142				
1,1-Dichloroethylene	54.0		"	50.0	0.00	108	30-153				
1,2,3-Trichlorobenzene	12.2		"	50.0	0.00	24.4	10-157				
1,2,3-Trichloropropane	56.5		"	50.0	0.00	113	38-155				
1,2,4-Trichlorobenzene	11.6		"	50.0	0.00	23.2	10-151				
1,2,4-Trimethylbenzene	24.9		"	50.0	0.00	49.8	10-170				
1,2-Dibromo-3-chloropropane	40.2		"	50.0	0.00	80.4	36-138				
1,2-Dibromoethane	50.8		"	50.0	0.00	102	40-142				
1,2-Dichlorobenzene	25.6		"	50.0	0.00	51.1	10-147				
1,2-Dichloroethane	55.6		"	50.0	0.00	111	48-133				
1,2-Dichloropropane	54.6		"	50.0	0.00	109	47-141				
1,3,5-Trimethylbenzene	25.6		"	50.0	0.00	51.2	10-150				
1,3-Dichlorobenzene	23.0		"	50.0	0.00	46.0	10-144				
1,4-Dichlorobenzene	23.5		"	50.0	0.00	47.0	10-160				
1,4-Dioxane	1270		"	1050	0.00	121	10-191				
2-Butanone	37.4		"	50.0	0.00	74.7	10-189				
2-Hexanone	39.4		"	50.0	0.00	78.8	10-181				
4-Methyl-2-pentanone	37.1		"	50.0	0.00	74.2	10-166				
Acetone	30.7		"	50.0	0.00	61.4	10-196				
Acrolein	2.01		"	50.0	0.00	4.02	10-192	Low Bias			
Acrylonitrile	54.0		"	50.0	0.00	108	13-161				
Benzene	52.3		"	50.0	0.00	105	43-139				
Bromochloromethane	48.2		"	50.0	0.00	96.5	38-145				
Bromodichloromethane	56.5		"	50.0	0.00	113	38-147				
Bromoform	48.4		"	50.0	0.00	96.9	29-156				
Bromomethane	60.7		"	50.0	0.00	121	10-166				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50915 - EPA 5035A											
Matrix Spike (BC50915-MS1) Matrix Spike	*Source sample: 25C0496-11 (SB33_0-2)							Prepared & Analyzed: 03/12/2025			
Carbon disulfide	35.9		ug/L	50.0	0.00	71.8	10-131				
Carbon tetrachloride	41.5		"	50.0	0.00	83.0	35-145				
Chlorobenzene	39.9		"	50.0	0.00	79.8	21-154				
Chloroethane	54.2		"	50.0	0.00	108	15-160				
Chloroform	53.0		"	50.0	0.00	106	47-142				
Chloromethane	41.7		"	50.0	0.00	83.5	10-159				
cis-1,2-Dichloroethylene	48.2		"	50.0	0.00	96.5	42-144				
cis-1,3-Dichloropropylene	41.5		"	50.0	0.00	83.1	18-159				
Cyclohexane	31.0		"	50.0	0.00	61.9	70-130	Low Bias			
Dibromochloromethane	54.3		"	50.0	0.00	109	10-179				
Dibromomethane	53.5		"	50.0	0.00	107	47-143				
Dichlorodifluoromethane	46.5		"	50.0	0.00	93.0	10-145				
Ethyl Benzene	38.4		"	50.0	0.00	76.7	11-158				
Hexachlorobutadiene	8.45		"	50.0	0.00	16.9	10-158				
Isopropylbenzene	29.6		"	50.0	0.00	59.2	10-162				
Methyl acetate	41.4		"	50.0	0.00	82.7	10-149				
Methyl tert-butyl ether (MTBE)	46.8		"	50.0	0.00	93.7	42-152				
Methylcyclohexane	19.2		"	50.0	0.00	38.3	70-130	Low Bias			
Methylene chloride	51.0		"	50.0	0.00	102	28-151				
n-Butylbenzene	16.0		"	50.0	0.00	32.0	10-162				
n-Propylbenzene	25.2		"	50.0	0.00	50.4	10-155				
o-Xylene	38.8		"	50.0	0.00	77.6	10-158				
p- & m- Xylenes	72.7		"	100	0.00	72.7	10-156				
p-Isopropyltoluene	19.6		"	50.0	0.00	39.2	10-147				
sec-Butylbenzene	19.0		"	50.0	0.00	37.9	10-157				
Styrene	37.8		"	50.0	0.00	75.5	13-171				
tert-Butyl alcohol (TBA)	132		"	250	0.00	52.9	34-179				
tert-Butylbenzene	19.5		"	50.0	0.00	39.0	10-160				
Tetrachloroethylene	27.9		"	50.0	0.00	55.8	30-167				
Toluene	47.5		"	50.0	0.00	95.0	21-160				
trans-1,2-Dichloroethylene	45.5		"	50.0	0.00	90.9	29-153				
trans-1,3-Dichloropropylene	35.6		"	50.0	0.00	71.2	18-155				
Trichloroethylene	45.5		"	50.0	0.00	90.9	24-169				
Trichlorofluoromethane	49.6		"	50.0	0.00	99.1	35-142				
Vinyl Chloride	51.4		"	50.0	0.00	103	12-160				
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.7*		*"*	*50.0*		*103*	*77-125*				
Surrogate: SURR: Toluene-d8	*53.6*		*"*	*50.0*		*107*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*53.2*		*"*	*50.0*		*106*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50915 - EPA 5035A											
Matrix Spike Dup (BC50915-! Matrix Spike Dup	*Source sample: 25C0496-11 (SB33_0-2)							Prepared & Analyzed: 03/12/2025			
1,1,1,2-Tetrachloroethane	52.3		ug/L	50.0	0.00	105	15-161		18.7	33	
1,1,1-Trichloroethane	50.3		"	50.0	0.00	101	42-145		12.1	30	
1,1,2,2-Tetrachloroethane	64.5		"	50.0	0.00	129	16-167		17.3	56	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	52.0		"	50.0	0.00	104	11-160		22.2	31	
1,1,2-Trichloroethane	62.5		"	50.0	0.00	125	44-145		12.4	40	
1,1-Dichloroethane	58.1		"	50.0	0.00	116	46-142		9.01	36	
1,1-Dichloroethylene	59.6		"	50.0	0.00	119	30-153		9.87	31	
1,2,3-Trichlorobenzene	27.6		"	50.0	0.00	55.2	10-157		77.5	47	Non-dir.
1,2,3-Trichloropropane	65.1		"	50.0	0.00	130	38-155		14.0	48	
1,2,4-Trichlorobenzene	27.5		"	50.0	0.00	54.9	10-151		81.2	52	Non-dir.
1,2,4-Trimethylbenzene	45.6		"	50.0	0.00	91.2	10-170		58.7	242	
1,2-Dibromo-3-chloropropane	53.7		"	50.0	0.00	107	36-138		28.8	54	
1,2-Dibromoethane	59.7		"	50.0	0.00	119	40-142		16.1	39	
1,2-Dichlorobenzene	42.8		"	50.0	0.00	85.6	10-147		50.5	52	
1,2-Dichloroethane	62.0		"	50.0	0.00	124	48-133		10.9	32	
1,2-Dichloropropane	60.6		"	50.0	0.00	121	47-141		10.4	37	
1,3,5-Trimethylbenzene	46.0		"	50.0	0.00	92.1	10-150		57.0	62	
1,3-Dichlorobenzene	40.0		"	50.0	0.00	80.0	10-144		53.9	51	Non-dir.
1,4-Dichlorobenzene	40.7		"	50.0	0.00	81.4	10-160		53.5	52	Non-dir.
1,4-Dioxane	1460		"	1050	0.00	140	10-191		14.5	196	
2-Butanone	48.1		"	50.0	0.00	96.1	10-189		25.1	67	
2-Hexanone	48.6		"	50.0	0.00	97.1	10-181		20.8	60	
4-Methyl-2-pentanone	42.6		"	50.0	0.00	85.1	10-166		13.8	47	
Acetone	39.0		"	50.0	0.00	78.0	10-196		23.8	150	
Acrolein	8.50		"	50.0	0.00	17.0	10-192		124	128	
Acrylonitrile	64.8		"	50.0	0.00	130	13-161		18.2	48	
Benzene	56.5		"	50.0	0.00	113	43-139		7.81	64	
Bromochloromethane	55.4		"	50.0	0.00	111	38-145		13.8	30	
Bromodichloromethane	63.3		"	50.0	0.00	127	38-147		11.3	37	
Bromoform	58.3		"	50.0	0.00	117	29-156		18.4	51	
Bromomethane	63.1		"	50.0	0.00	126	10-166		3.86	42	
Carbon disulfide	48.0		"	50.0	0.00	96.1	10-131		29.0	36	
Carbon tetrachloride	48.9		"	50.0	0.00	97.8	35-145		16.3	31	
Chlorobenzene	50.6		"	50.0	0.00	101	21-154		23.8	32	
Chloroethane	57.7		"	50.0	0.00	115	15-160		6.20	40	
Chloroform	58.3		"	50.0	0.00	117	47-142		9.47	29	
Chloromethane	44.6		"	50.0	0.00	89.1	10-159		6.54	31	
cis-1,2-Dichloroethylene	54.4		"	50.0	0.00	109	42-144		11.9	30	
cis-1,3-Dichloropropylene	49.4		"	50.0	0.00	98.7	18-159		17.2	39	
Cyclohexane	48.8		"	50.0	0.00	97.7	70-130		44.8	30	Non-dir.
Dibromochloromethane	62.6		"	50.0	0.00	125	10-179		14.1	41	
Dibromomethane	60.3		"	50.0	0.00	121	47-143		12.1	41	
Dichlorodifluoromethane	50.1		"	50.0	0.00	100	10-145		7.45	34	
Ethyl Benzene	52.1		"	50.0	0.00	104	11-158		30.4	42	
Hexachlorobutadiene	20.6		"	50.0	0.00	41.3	10-158		83.8	45	Non-dir.
Isopropylbenzene	49.5		"	50.0	0.00	99.0	10-162		50.3	57	
Methyl acetate	44.8		"	50.0	0.00	89.7	10-149		8.08	64	
Methyl tert-butyl ether (MTBE)	54.0		"	50.0	0.00	108	42-152		14.2	47	
Methylcyclohexane	41.9		"	50.0	0.00	83.8	70-130		74.5	30	Non-dir.
Methylene chloride	54.9		"	50.0	0.00	110	28-151		7.40	49	
n-Butylbenzene	37.4		"	50.0	0.00	74.8	10-162		80.1	96	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50915 - EPA 5035A											
Matrix Spike Dup (BC50915-M Matrix Spike Dup				*Source sample: 25C0496-11 (SB33_0-2)				Prepared & Analyzed: 03/12/2025			
n-Propylbenzene	47.1		ug/L	50.0	0.00	94.2	10-155		60.5	56	Non-dir.
o-Xylene	51.2		"	50.0	0.00	102	10-158		27.6	51	
p- & m- Xylenes	101		"	100	0.00	101	10-156		32.2	47	
p-Isopropyltoluene	42.9		"	50.0	0.00	85.9	10-147		74.7	60	Non-dir.
sec-Butylbenzene	42.3		"	50.0	0.00	84.7	10-157		76.2	56	Non-dir.
Styrene	49.6		"	50.0	0.00	99.3	13-171		27.2	39	
tert-Butyl alcohol (TBA)	183		"	250	0.00	73.3	34-179		32.2	35	
tert-Butylbenzene	39.8		"	50.0	0.00	79.6	10-160		68.5	79	
Tetrachloroethylene	39.2		"	50.0	0.00	78.5	30-167		33.8	33	Non-dir.
Toluene	54.9		"	50.0	0.00	110	21-160		14.4	50	
trans-1,2-Dichloroethylene	54.0		"	50.0	0.00	108	29-153		17.2	30	
trans-1,3-Dichloropropylene	45.9		"	50.0	0.00	91.7	18-155		25.2	30	
Trichloroethylene	55.2		"	50.0	0.00	110	24-169		19.4	30	
Trichlorofluoromethane	53.8		"	50.0	0.00	108	35-142		8.18	30	
Vinyl Chloride	55.6		"	50.0	0.00	111	12-160		7.89	35	
Surrogate: SURR: 1,2-Dichloroethane-d4	*52.0*		*"*	*50.0*		*104*	*77-125*				
Surrogate: SURR: Toluene-d8	*52.2*		*"*	*50.0*		*104*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*51.0*		*"*	*50.0*		*102*	*76-130*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50895 - EPA 3510C											
Blank (BC50895-BLK2) Blank								Prepared & Analyzed: 03/13/2025			
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	0.220	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								
LCS (BC50895-BS2) LCS								Prepared & Analyzed: 03/13/2025			
Acenaphthene	0.580	0.0500	ug/L	0.625		92.8	25-116				
Acenaphthylene	0.660	0.0500	"	0.625		106	26-116				
Anthracene	0.750	0.0500	"	0.625		120	25-123				
Benzo(a)anthracene	0.790	0.0500	"	0.625		126	33-125	High Bias			
Benzo(a)pyrene	0.690	0.0500	"	0.625		110	32-132				
Benzo(b)fluoranthene	0.670	0.0500	"	0.625		107	22-137				
Benzo(g,h,i)perylene	1.09	0.0500	"	0.625		174	10-138	High Bias			
Benzo(k)fluoranthene	0.700	0.0500	"	0.625		112	20-137				
Bis(2-ethylhexyl)phthalate	0.990	0.500	"	0.625		158	10-189				
Chrysene	0.810	0.0500	"	0.625		130	32-124	High Bias			
Dibenzo(a,h)anthracene	1.05	0.0500	"	0.625		168	16-133	High Bias			
Fluoranthene	0.690	0.0500	"	0.625		110	32-121				
Fluorene	0.710	0.0500	"	0.625		114	28-118				
Hexachlorobenzene	0.690	0.0200	"	0.625		110	23-124				
Hexachlorobutadiene	ND	0.500	"	0.625			15-123	Low Bias			
Hexachloroethane	2.53	0.500	"	0.625		405	18-115	High Bias			
Indeno(1,2,3-cd)pyrene	1.04	0.0500	"	0.625		166	15-135	High Bias			
Naphthalene	0.520	0.0500	"	0.625		83.2	18-120				
Nitrobenzene	0.350	0.250	"	0.625		56.0	21-121				
N-Nitrosodimethylamine	ND	0.500	"	0.625			10-124	Low Bias			
Pentachlorophenol	0.510	0.250	"	0.625		81.6	10-156				
Phenanthrene	0.690	0.0500	"	0.625		110	24-127				
Pyrene	0.690	0.0500	"	0.625		110	31-132				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50896 - EPA 3510C											
Blank (BC50896-BLK1) Blank									Prepared & Analyzed: 03/13/2025		
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Diphenylamine	ND	5.00	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Isophorone	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Phenol	ND	5.00	"								
Pyridine	ND	5.00	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50896 - EPA 3510C											
Blank (BC50896-BLK1) Blank							Prepared & Analyzed: 03/13/2025				
Surrogate: SURR: 2-Fluorophenol	*12.2*		*ug/L*	*50.0*		*24.5*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*7.02*		*"*	*50.0*		*14.0*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*13.1*		*"*	*25.0*		*52.3*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*10.6*		*"*	*25.0*		*42.5*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*24.1*		*"*	*50.0*		*48.3*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*18.1*		*"*	*25.0*		*72.4*	*30.7-106*				
LCS (BC50896-BS1) LCS							Prepared & Analyzed: 03/13/2025				
1,1-Biphenyl	11.5	5.00	ug/L	25.0		46.0	33-95				
1,2,4,5-Tetrachlorobenzene	9.38	5.00	"	25.0		37.5	26-120				
1,2-Diphenylhydrazine (as Azobenzene)	18.8	5.00	"	25.0		75.0	16-141				
2,3,4,6-Tetrachlorophenol	14.8	5.00	"	25.0		59.2	30-130				
2,4,5-Trichlorophenol	11.1	5.00	"	25.0		44.5	32-114				
2,4,6-Trichlorophenol	11.4	5.00	"	25.0		45.6	35-118				
2,4-Dichlorophenol	12.8	5.00	"	25.0		51.1	25-116				
2,4-Dimethylphenol	13.2	5.00	"	25.0		52.8	15-116				
2,4-Dinitrophenol	9.64	5.00	"	25.0		38.6	10-170				
2,4-Dinitrotoluene	13.2	5.00	"	25.0		52.9	41-128				
2,6-Dinitrotoluene	13.1	5.00	"	25.0		52.3	45-116				
2-Chloronaphthalene	11.4	5.00	"	25.0		45.4	33-112				
2-Chlorophenol	9.53	5.00	"	25.0		38.1	15-120				
2-Methylnaphthalene	12.7	5.00	"	25.0		50.9	24-118				
2-Methylphenol	9.05	5.00	"	25.0		36.2	10-110				
2-Nitroaniline	12.0	5.00	"	25.0		48.1	34-129				
2-Nitrophenol	11.7	5.00	"	25.0		46.7	28-118				
3- & 4-Methylphenols	6.69	5.00	"	25.0		26.8	10-107				
3,3-Dichlorobenzidine	9.86	5.00	"	25.0		39.4	15-187				
3-Nitroaniline	9.38	5.00	"	25.0		37.5	24-134				
4,6-Dinitro-2-methylphenol	18.7	5.00	"	25.0		74.9	10-153				
4-Bromophenyl phenyl ether	12.7	5.00	"	25.0		50.9	34-120				
4-Chloro-3-methylphenol	14.8	5.00	"	25.0		59.0	20-120				
4-Chloroaniline	8.30	5.00	"	25.0		33.2	10-147				
4-Chlorophenyl phenyl ether	13.2	5.00	"	25.0		52.9	27-121				
4-Nitroaniline	10.2	5.00	"	25.0		41.0	13-134				
4-Nitrophenol	ND	5.00	"	25.0			10-131	Low Bias			
Acetophenone	11.6	5.00	"	25.0		46.4	25-110				
Aniline	4.22	5.00	"	25.0		16.9	10-117				
Benzaldehyde	10.4	5.00	"	25.0		41.7	29-117				
Benzoic acid	ND	5.00	"	25.0			30-130	Low Bias			
Benzyl alcohol	7.42	5.00	"	25.0		29.7	10-117				
Benzyl butyl phthalate	16.8	5.00	"	25.0		67.1	29-133				
Bis(2-chloroethoxy)methane	14.1	5.00	"	25.0		56.4	10-154				
Bis(2-chloroethyl)ether	10.7	5.00	"	25.0		42.7	17-125				
Bis(2-chloroisopropyl)ether	7.47	5.00	"	25.0		29.9	10-139				
Caprolactam	2.50	5.00	"	25.0		10.0	10-137				
Carbazole	18.3	5.00	"	25.0		73.0	42-126				
Dibenzofuran	13.5	5.00	"	25.0		54.0	36-113				
Diethyl phthalate	16.0	5.00	"	25.0		63.8	38-115				
Dimethyl phthalate	15.6	5.00	"	25.0		62.4	38-129				
Di-n-butyl phthalate	21.9	5.00	"	25.0		87.6	31-120				
Di-n-octyl phthalate	18.2	5.00	"	25.0		72.7	21-149				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50896 - EPA 3510C											
LCS (BC50896-BS1) LCS							Prepared & Analyzed: 03/13/2025				
Diphenylamine	17.2	5.00	ug/L	25.0		68.9	40-140				
Hexachlorocyclopentadiene	7.97	10.0	"	25.0		31.9	10-130				
Isophorone	17.3	5.00	"	25.0		69.1	25-127				
N-nitroso-di-n-propylamine	12.5	5.00	"	25.0		49.8	26-122				
N-Nitrosodiphenylamine	15.6	5.00	"	25.0		62.6	23-149				
Phenol	ND	5.00	"	25.0			10-110	Low Bias			
Pyridine	3.72	5.00	"	35.0		10.6	10-90				
Surrogate: SURR: 2-Fluorophenol	*12.9*		*"*	*50.0*		*25.8*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*7.38*		*"*	*50.0*		*14.8*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*14.9*		*"*	*25.0*		*59.4*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*12.5*		*"*	*25.0*		*49.9*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*29.3*		*"*	*50.0*		*58.7*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*18.1*		*"*	*25.0*		*72.5*	*30.7-106*				
Batch BC51135 - EPA 3550C											
Blank (BC51135-BLK1) Blank							Prepared: 03/15/2025 Analyzed: 03/17/2025				
1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51135 - EPA 3550C											
Blank (BC51135-BLK1) Blank									Prepared: 03/15/2025 Analyzed: 03/17/2025		
Benzidine	ND	0.166	mg/kg wet								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								
Caprolactam	ND	0.0830	"								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								
Dibenzofuran	ND	0.0416	"								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Pyridine	ND	0.166	"								
Surrogate: SURR: 2-Fluorophenol	*1.00*		*"*	*1.66*		*60.3*	*20-108*				
Surrogate: SURR: Phenol-d6	*0.982*		*"*	*1.66*		*59.1*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.510*		*"*	*0.831*		*61.4*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.496*		*"*	*0.831*		*59.8*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.18*		*"*	*1.66*		*70.9*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.529*		*"*	*0.831*		*63.6*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51135 - EPA 3550C											
LCS (BC51135-BS1) LCS								Prepared: 03/15/2025 Analyzed: 03/17/2025			
1,1-Biphenyl	0.462	0.0416	mg/kg wet	0.831		55.6	18-111				
1,2,4,5-Tetrachlorobenzene	0.478	0.0830	"	0.831		57.6	21-131				
1,2-Diphenylhydrazine (as Azobenzene)	0.468	0.0416	"	0.831		56.4	17-137				
2,3,4,6-Tetrachlorophenol	0.628	0.0830	"	0.831		75.6	30-130				
2,4,5-Trichlorophenol	0.467	0.0416	"	0.831		56.2	27-118				
2,4,6-Trichlorophenol	0.481	0.0416	"	0.831		58.0	31-120				
2,4-Dichlorophenol	0.495	0.0416	"	0.831		59.6	20-127				
2,4-Dimethylphenol	0.478	0.0416	"	0.831		57.6	14-132				
2,4-Dinitrophenol	0.468	0.0830	"	0.831		56.4	10-171				
2,4-Dinitrotoluene	0.527	0.0416	"	0.831		63.5	34-131				
2,6-Dinitrotoluene	0.498	0.0416	"	0.831		60.0	31-128				
2-Chloronaphthalene	0.448	0.0416	"	0.831		53.9	31-117				
2-Chlorophenol	0.440	0.0416	"	0.831		52.9	33-113				
2-Methylnaphthalene	0.428	0.0416	"	0.831		51.5	12-138				
2-Methylphenol	0.450	0.0416	"	0.831		54.2	10-136				
2-Nitroaniline	0.483	0.0830	"	0.831		58.1	27-132				
2-Nitrophenol	0.467	0.0416	"	0.831		56.2	17-129				
3- & 4-Methylphenols	0.382	0.0416	"	0.831		46.0	29-103				
3,3-Dichlorobenzidine	0.350	0.0416	"	0.831		42.2	22-149				
3-Nitroaniline	0.375	0.0830	"	0.831		45.2	20-133				
4,6-Dinitro-2-methylphenol	0.452	0.0830	"	0.831		54.4	10-143				
4-Bromophenyl phenyl ether	0.460	0.0416	"	0.831		55.4	29-120				
4-Chloro-3-methylphenol	0.523	0.0416	"	0.831		63.0	24-129				
4-Chloroaniline	0.217	0.0416	"	0.831		26.1	10-132				
4-Chlorophenyl phenyl ether	0.493	0.0416	"	0.831		59.3	27-124				
4-Nitroaniline	0.469	0.0830	"	0.831		56.5	16-128				
4-Nitrophenol	0.388	0.0830	"	0.831		46.7	10-141				
Acenaphthene	0.437	0.0416	"	0.831		52.6	30-121				
Acenaphthylene	0.462	0.0416	"	0.831		55.7	30-115				
Acetophenone	0.482	0.0416	"	0.831		58.0	20-112				
Aniline	0.427	0.166	"	0.831		51.4	10-119				
Anthracene	0.442	0.0416	"	0.831		53.2	34-118				
Atrazine	0.489	0.0416	"	0.831		58.8	26-112				
Benzaldehyde	0.395	0.0416	"	0.831		47.5	21-100				
Benzo(a)anthracene	0.454	0.0416	"	0.831		54.7	32-122				
Benzo(a)pyrene	0.411	0.0416	"	0.831		49.5	29-133				
Benzo(b)fluoranthene	0.452	0.0416	"	0.831		54.4	25-133				
Benzo(g,h,i)perylene	0.422	0.0416	"	0.831		50.8	10-143				
Benzo(k)fluoranthene	0.434	0.0416	"	0.831		52.3	25-128				
Benzoic acid	0.467	0.0416	"	0.831		56.3	10-140				
Benzyl alcohol	0.416	0.0416	"	0.831		50.1	30-115				
Benzyl butyl phthalate	0.471	0.0416	"	0.831		56.7	26-126				
Bis(2-chloroethoxy)methane	0.458	0.0416	"	0.831		55.2	19-132				
Bis(2-chloroethyl)ether	0.627	0.0416	"	0.831		75.5	19-125				
Bis(2-chloroisopropyl)ether	0.413	0.0416	"	0.831		49.7	20-135				
Bis(2-ethylhexyl)phthalate	0.461	0.0416	"	0.831		55.5	10-155				
Caprolactam	0.627	0.0830	"	0.831		75.4	10-127				
Carbazole	0.433	0.0416	"	0.831		52.2	35-123				
Chrysene	0.450	0.0416	"	0.831		54.2	32-123				
Dibenzo(a,h)anthracene	0.425	0.0416	"	0.831		51.2	10-136				
Dibenzofuran	0.466	0.0416	"	0.831		56.1	29-121				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51135 - EPA 3550C											
LCS (BC51135-BS1) LCS							Prepared: 03/15/2025 Analyzed: 03/17/2025				
Diethyl phthalate	0.511	0.0416	mg/kg wet	0.831		61.5	34-116				
Dimethyl phthalate	0.482	0.0416	"	0.831		58.0	35-124				
Di-n-butyl phthalate	0.461	0.0416	"	0.831		55.5	31-116				
Di-n-octyl phthalate	0.453	0.0416	"	0.831		54.6	26-136				
Diphenylamine	0.489	0.0830	"	0.831		58.9	40-140				
Fluoranthene	0.444	0.0416	"	0.831		53.4	33-122				
Fluorene	0.488	0.0416	"	0.831		58.7	29-123				
Hexachlorobenzene	0.466	0.0416	"	0.831		56.1	21-124				
Hexachlorobutadiene	0.501	0.0416	"	0.831		60.3	10-149				
Hexachlorocyclopentadiene	0.176	0.0416	"	0.831		21.2	10-129				
Hexachloroethane	0.465	0.0416	"	0.831		56.0	28-108				
Indeno(1,2,3-cd)pyrene	0.509	0.0416	"	0.831		61.3	10-135				
Isophorone	0.476	0.0416	"	0.831		57.4	20-132				
Naphthalene	0.467	0.0416	"	0.831		56.2	23-124				
Nitrobenzene	0.489	0.0416	"	0.831		58.9	13-132				
N-Nitrosodimethylamine	0.357	0.0416	"	0.831		43.0	11-129				
N-nitroso-di-n-propylamine	0.428	0.0416	"	0.831		51.5	24-119				
N-Nitrosodiphenylamine	0.477	0.0416	"	0.831		57.5	22-152				
Pentachlorophenol	0.301	0.0416	"	0.831		36.2	10-139				
Phenanthrene	0.452	0.0416	"	0.831		54.4	33-123				
Phenol	0.449	0.0416	"	0.831		54.1	23-115				
Pyrene	0.442	0.0416	"	0.831		53.2	24-130				
Pyridine	0.284	0.166	"	0.831		34.2	10-91				
Surrogate: SURR: 2-Fluorophenol	*0.844*		*"*	*1.66*		*50.8*	*20-108*				
Surrogate: SURR: Phenol-d6	*0.829*		*"*	*1.66*		*49.9*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.448*		*"*	*0.831*		*53.9*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.413*		*"*	*0.831*		*49.8*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.985*		*"*	*1.66*		*59.3*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.428*		*"*	*0.831*		*51.6*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51135 - EPA 3550C											
Matrix Spike (BC51135-MS1) Matrix Spike	*Source sample: 25C0496-11 (SB33_0-2)							Prepared: 03/15/2025 Analyzed: 03/17/2025			
1,1-Biphenyl	0.487	0.0899	mg/kg dry	0.899	ND	54.2	10-130				
1,2,4,5-Tetrachlorobenzene	0.516	0.180	"	0.899	ND	57.4	10-133				
1,2-Diphenylhydrazine (as Azobenzene)	0.512	0.0899	"	0.899	ND	57.0	10-144				
2,3,4,6-Tetrachlorophenol	0.515	0.180	"	0.899	ND	57.3	30-130				
2,4,5-Trichlorophenol	0.503	0.0899	"	0.899	ND	56.0	10-127				
2,4,6-Trichlorophenol	0.516	0.0899	"	0.899	ND	57.4	10-132				
2,4-Dichlorophenol	0.521	0.0899	"	0.899	ND	58.0	10-128				
2,4-Dimethylphenol	0.484	0.0899	"	0.899	ND	53.8	10-137				
2,4-Dinitrophenol	ND	0.180	"	0.899	ND		10-171	Low Bias			
2,4-Dinitrotoluene	0.529	0.0899	"	0.899	ND	58.9	16-135				
2,6-Dinitrotoluene	0.510	0.0899	"	0.899	ND	56.8	18-131				
2-Chloronaphthalene	0.474	0.0899	"	0.899	ND	52.8	10-129				
2-Chlorophenol	0.436	0.0899	"	0.899	ND	48.5	15-116				
2-Methylnaphthalene	0.452	0.0899	"	0.899	ND	50.3	10-147				
2-Methylphenol	0.485	0.0899	"	0.899	ND	54.0	10-136				
2-Nitroaniline	0.504	0.180	"	0.899	ND	56.1	10-137				
2-Nitrophenol	0.467	0.0899	"	0.899	ND	51.9	10-129				
3- & 4-Methylphenols	0.403	0.0899	"	0.899	ND	44.9	10-123				
3,3-Dichlorobenzidine	0.362	0.0899	"	0.899	ND	40.2	10-155				
3-Nitroaniline	0.412	0.180	"	0.899	ND	45.8	12-133				
4,6-Dinitro-2-methylphenol	0.328	0.180	"	0.899	ND	36.5	10-155				
4-Bromophenyl phenyl ether	0.527	0.0899	"	0.899	ND	58.6	14-128				
4-Chloro-3-methylphenol	0.565	0.0899	"	0.899	ND	62.9	10-134				
4-Chloroaniline	0.310	0.0899	"	0.899	ND	34.5	10-145				
4-Chlorophenyl phenyl ether	0.518	0.0899	"	0.899	ND	57.7	14-130				
4-Nitroaniline	0.464	0.180	"	0.899	ND	51.7	10-147				
4-Nitrophenol	0.423	0.180	"	0.899	ND	47.1	10-137				
Acenaphthene	0.482	0.0899	"	0.899	ND	53.7	10-146				
Acenaphthylene	0.511	0.0899	"	0.899	ND	56.9	10-134				
Acetophenone	0.493	0.0899	"	0.899	ND	54.9	10-116				
Aniline	0.239	0.360	"	0.899	ND	26.6	10-123				
Anthracene	0.515	0.0899	"	0.899	ND	57.4	10-142				
Atrazine	0.523	0.0899	"	0.899	ND	58.2	19-115				
Benzaldehyde	0.354	0.0899	"	0.899	ND	39.4	10-125				
Benzo(a)anthracene	0.576	0.0899	"	0.899	0.112	51.6	10-158				
Benzo(a)pyrene	0.550	0.0899	"	0.899	0.0827	52.0	10-180				
Benzo(b)fluoranthene	0.570	0.0899	"	0.899	0.0870	53.8	10-200				
Benzo(g,h,i)perylene	0.544	0.0899	"	0.899	0.0495	55.1	10-138				
Benzo(k)fluoranthene	0.523	0.0899	"	0.899	0.0686	50.5	10-197				
Benzoic acid	0.152	0.0899	"	0.899	ND	17.0	10-166				
Benzyl alcohol	0.400	0.0899	"	0.899	ND	44.6	12-124				
Benzyl butyl phthalate	0.492	0.0899	"	0.899	ND	54.8	10-154				
Bis(2-chloroethoxy)methane	0.462	0.0899	"	0.899	ND	51.4	10-132				
Bis(2-chloroethyl)ether	0.487	0.0899	"	0.899	ND	54.2	10-119				
Bis(2-chloroisopropyl)ether	0.425	0.0899	"	0.899	ND	47.3	10-139				
Bis(2-ethylhexyl)phthalate	0.484	0.0899	"	0.899	ND	53.9	10-167				
Caprolactam	0.646	0.180	"	0.899	ND	71.8	10-132				
Carbazole	0.471	0.0899	"	0.899	ND	52.4	10-167				
Chrysene	0.565	0.0899	"	0.899	0.110	50.7	10-156				
Dibenzo(a,h)anthracene	0.495	0.0899	"	0.899	ND	55.1	10-137				
Dibenzofuran	0.506	0.0899	"	0.899	ND	56.3	10-147				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51135 - EPA 3550C											
Matrix Spike (BC51135-MS1) Matrix Spike	*Source sample: 25C0496-11 (SB33_0-2)							Prepared: 03/15/2025 Analyzed: 03/17/2025			
Diethyl phthalate	0.546	0.0899	mg/kg dry	0.899	ND	60.7	20-120				
Dimethyl phthalate	0.507	0.0899	"	0.899	ND	56.4	18-131				
Di-n-butyl phthalate	0.503	0.0899	"	0.899	ND	56.0	10-137				
Di-n-octyl phthalate	0.464	0.0899	"	0.899	ND	51.6	10-180				
Diphenylamine	0.529	0.180	"	0.899	ND	58.9	40-140				
Fluoranthene	0.642	0.0899	"	0.899	0.209	48.1	10-160				
Fluorene	0.554	0.0899	"	0.899	ND	61.6	10-157				
Hexachlorobenzene	0.524	0.0899	"	0.899	ND	58.3	10-137				
Hexachlorobutadiene	0.545	0.0899	"	0.899	ND	60.6	10-132				
Hexachlorocyclopentadiene	0.0496	0.0899	"	0.899	ND	5.52	10-106	Low Bias			
Hexachloroethane	0.464	0.0899	"	0.899	ND	51.7	10-110				
Indeno(1,2,3-cd)pyrene	0.623	0.0899	"	0.899	0.0552	63.2	10-144				
Isophorone	0.491	0.0899	"	0.899	ND	54.6	10-132				
Naphthalene	0.491	0.0899	"	0.899	ND	54.6	10-141				
Nitrobenzene	0.483	0.0899	"	0.899	ND	53.8	10-131				
N-Nitrosodimethylamine	0.359	0.0899	"	0.899	ND	39.9	10-126				
N-nitroso-di-n-propylamine	0.436	0.0899	"	0.899	ND	48.5	10-125				
N-Nitrosodiphenylamine	0.523	0.0899	"	0.899	ND	58.2	10-177				
Pentachlorophenol	0.198	0.0899	"	0.899	ND	22.0	10-153				
Phenanthrene	0.602	0.0899	"	0.899	0.101	55.7	10-148				
Phenol	0.441	0.0899	"	0.899	ND	49.0	10-126				
Pyrene	0.640	0.0899	"	0.899	0.154	54.1	10-165				
Pyridine	0.260	0.360	"	0.899	ND	29.0	10-83				
Surrogate: SURR: 2-Fluorophenol	*0.836*		*"*	*1.80*		*46.5*	*20-108*				
Surrogate: SURR: Phenol-d6	*0.822*		*"*	*1.80*		*45.8*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.453*		*"*	*0.899*		*50.4*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.450*		*"*	*0.899*		*50.1*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.07*		*"*	*1.80*		*59.3*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.460*		*"*	*0.899*		*51.2*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51135 - EPA 3550C											
Matrix Spike Dup (BC51135-M Matrix Spike Dup	*Source sample: 25C0496-11 (SB33_0-2)							Prepared: 03/15/2025 Analyzed: 03/17/2025			
1,1-Biphenyl	0.527	0.0899	mg/kg dry	0.899	ND	58.6	10-130		7.94	30	
1,2,4,5-Tetrachlorobenzene	0.561	0.180	"	0.899	ND	62.4	10-133		8.28	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.543	0.0899	"	0.899	ND	60.4	10-144		5.86	30	
2,3,4,6-Tetrachlorophenol	0.564	0.180	"	0.899	ND	62.7	30-130		9.07	30	
2,4,5-Trichlorophenol	0.538	0.0899	"	0.899	ND	59.8	10-127		6.63	30	
2,4,6-Trichlorophenol	0.548	0.0899	"	0.899	ND	61.0	10-132		5.95	30	
2,4-Dichlorophenol	0.579	0.0899	"	0.899	ND	64.4	10-128		10.5	30	
2,4-Dimethylphenol	0.534	0.0899	"	0.899	ND	59.4	10-137		9.89	30	
2,4-Dinitrophenol	ND	0.180	"	0.899	ND		10-171	Low Bias		30	
2,4-Dinitrotoluene	0.592	0.0899	"	0.899	ND	65.8	16-135		11.2	30	
2,6-Dinitrotoluene	0.545	0.0899	"	0.899	ND	60.6	18-131		6.54	30	
2-Chloronaphthalene	0.513	0.0899	"	0.899	ND	57.0	10-129		7.72	30	
2-Chlorophenol	0.492	0.0899	"	0.899	ND	54.8	15-116		12.2	30	
2-Methylnaphthalene	0.501	0.0899	"	0.899	ND	55.8	10-147		10.3	30	
2-Methylphenol	0.513	0.0899	"	0.899	ND	57.0	10-136		5.48	30	
2-Nitroaniline	0.561	0.180	"	0.899	ND	62.4	10-137		10.7	30	
2-Nitrophenol	0.514	0.0899	"	0.899	ND	57.2	10-129		9.68	30	
3- & 4-Methylphenols	0.455	0.0899	"	0.899	ND	50.6	10-123		12.1	30	
3,3-Dichlorobenzidine	0.336	0.0899	"	0.899	ND	37.4	10-155		7.42	30	
3-Nitroaniline	0.427	0.180	"	0.899	ND	47.5	12-133		3.60	30	
4,6-Dinitro-2-methylphenol	0.280	0.180	"	0.899	ND	31.1	10-155		15.9	30	
4-Bromophenyl phenyl ether	0.534	0.0899	"	0.899	ND	59.4	14-128		1.36	30	
4-Chloro-3-methylphenol	0.610	0.0899	"	0.899	ND	67.8	10-134		7.59	30	
4-Chloroaniline	0.330	0.0899	"	0.899	ND	36.7	10-145		6.29	30	
4-Chlorophenyl phenyl ether	0.568	0.0899	"	0.899	ND	63.2	14-130		9.13	30	
4-Nitroaniline	0.507	0.180	"	0.899	ND	56.4	10-147		8.73	30	
4-Nitrophenol	0.509	0.180	"	0.899	ND	56.6	10-137		18.4	30	
Acenaphthene	0.521	0.0899	"	0.899	ND	58.0	10-146		7.74	30	
Acenaphthylene	0.550	0.0899	"	0.899	ND	61.2	10-134		7.32	30	
Acetophenone	0.555	0.0899	"	0.899	ND	61.8	10-116		11.8	30	
Aniline	0.620	0.360	"	0.899	ND	69.0	10-123		88.5	30	Non-dir.
Anthracene	0.528	0.0899	"	0.899	ND	58.8	10-142		2.48	30	
Atrazine	0.541	0.0899	"	0.899	ND	60.2	19-115		3.38	30	
Benzaldehyde	0.404	0.0899	"	0.899	ND	45.0	10-125		13.1	30	
Benzo(a)anthracene	0.579	0.0899	"	0.899	0.112	52.0	10-158		0.622	30	
Benzo(a)pyrene	0.542	0.0899	"	0.899	0.0827	51.1	10-180		1.45	30	
Benzo(b)fluoranthene	0.585	0.0899	"	0.899	0.0870	55.4	10-200		2.61	30	
Benzo(g,h,i)perylene	0.584	0.0899	"	0.899	0.0495	59.5	10-138		7.13	30	
Benzo(k)fluoranthene	0.544	0.0899	"	0.899	0.0686	52.9	10-197		4.04	30	
Benzoic acid	0.247	0.0899	"	0.899	ND	27.5	10-166		47.5	30	Non-dir.
Benzyl alcohol	0.464	0.0899	"	0.899	ND	51.6	12-124		14.6	30	
Benzyl butyl phthalate	0.546	0.0899	"	0.899	ND	60.7	10-154		10.2	30	
Bis(2-chloroethoxy)methane	0.518	0.0899	"	0.899	ND	57.6	10-132		11.3	30	
Bis(2-chloroethyl)ether	0.909	0.0899	"	0.899	ND	101	10-119		60.5	30	Non-dir.
Bis(2-chloroisopropyl)ether	0.462	0.0899	"	0.899	ND	51.4	10-139		8.43	30	
Bis(2-ethylhexyl)phthalate	0.546	0.0899	"	0.899	ND	60.7	10-167		11.9	30	
Caprolactam	0.730	0.180	"	0.899	ND	81.2	10-132		12.2	30	
Carbazole	0.495	0.0899	"	0.899	ND	55.0	10-167		4.91	30	
Chrysene	0.564	0.0899	"	0.899	0.110	50.5	10-156		0.255	30	
Dibenzo(a,h)anthracene	0.525	0.0899	"	0.899	ND	58.4	10-137		5.78	30	
Dibenzofuran	0.546	0.0899	"	0.899	ND	60.8	10-147		7.65	30	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51135 - EPA 3550C											
Matrix Spike Dup (BC51135-M Matrix Spike Dup	*Source sample: 25C0496-11 (SB33_0-2)								Prepared: 03/15/2025 Analyzed: 03/17/2025		
Diethyl phthalate	0.579	0.0899	mg/kg dry	0.899	ND	64.5	20-120		6.01	30	
Dimethyl phthalate	0.541	0.0899	"	0.899	ND	60.2	18-131		6.45	30	
Di-n-butyl phthalate	0.519	0.0899	"	0.899	ND	57.8	10-137		3.09	30	
Di-n-octyl phthalate	0.491	0.0899	"	0.899	ND	54.6	10-180		5.72	30	
Diphenylamine	0.559	0.180	"	0.899	ND	62.2	40-140		5.55	30	
Fluoranthene	0.601	0.0899	"	0.899	0.209	43.6	10-160		6.59	30	
Fluorene	0.574	0.0899	"	0.899	ND	63.8	10-157		3.57	30	
Hexachlorobenzene	0.533	0.0899	"	0.899	ND	59.4	10-137		1.77	30	
Hexachlorobutadiene	0.580	0.0899	"	0.899	ND	64.6	10-132		6.26	30	
Hexachlorocyclopentadiene	0.0597	0.0899	"	0.899	ND	6.64	10-106	Low Bias	18.4	30	
Hexachloroethane	0.526	0.0899	"	0.899	ND	58.6	10-110		12.5	30	
Indeno(1,2,3-cd)pyrene	0.659	0.0899	"	0.899	0.0552	67.2	10-144		5.61	30	
Isophorone	0.543	0.0899	"	0.899	ND	60.5	10-132		10.1	30	
Naphthalene	0.543	0.0899	"	0.899	ND	60.4	10-141		10.0	30	
Nitrobenzene	0.548	0.0899	"	0.899	ND	61.0	10-131		12.6	30	
N-Nitrosodimethylamine	0.408	0.0899	"	0.899	ND	45.4	10-126		12.8	30	
N-nitroso-di-n-propylamine	0.502	0.0899	"	0.899	ND	55.8	10-125		14.1	30	
N-Nitrosodiphenylamine	0.558	0.0899	"	0.899	ND	62.1	10-177		6.52	30	
Pentachlorophenol	0.249	0.0899	"	0.899	ND	27.7	10-153		22.9	30	
Phenanthrene	0.563	0.0899	"	0.899	0.101	51.4	10-148		6.67	30	
Phenol	0.469	0.0899	"	0.899	ND	52.2	10-126		6.17	30	
Pyrene	0.631	0.0899	"	0.899	0.154	53.1	10-165		1.47	30	
Pyridine	0.326	0.360	"	0.899	ND	36.3	10-83		22.5	30	
Surrogate: SURR: 2-Fluorophenol	*0.927*		*"*	*1.80*		*51.6*	*20-108*				
Surrogate: SURR: Phenol-d6	*0.922*		*"*	*1.80*		*51.3*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.505*		*"*	*0.899*		*56.2*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.475*		*"*	*0.899*		*52.9*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.14*		*"*	*1.80*		*63.2*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.502*		*"*	*0.899*		*55.9*	*24-116*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50970 - EPA 3550C												
Blank (BC50970-BLK1)	Blank								Prepared: 03/13/2025 Analyzed: 03/14/2025			
1,4-Dioxane		ND	19.8	ug/kg								
Surrogate: 1,4-Dioxane-d8		*386*		*"*	*495*		*78.0*	*39-127.5*				
LCS (BC50970-BS1)	LCS								Prepared: 03/13/2025 Analyzed: 03/14/2025			
1,4-Dioxane		508	19.8	ug/kg	495		103	40-130				
Surrogate: 1,4-Dioxane-d8		*317*		*"*	*495*		*64.0*	*39-127.5*				
Batch BC51002 - EPA 3535A												
Blank (BC51002-BLK1)	Blank								Prepared: 03/13/2025 Analyzed: 03/14/2025			
1,4-Dioxane		ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8		*5.12*		*"*	*8.00*		*64.0*	*36.6-118*				
LCS (BC51002-BS1)	LCS								Prepared: 03/13/2025 Analyzed: 03/14/2025			
1,4-Dioxane		3.60	0.300	ug/L	4.00		90.0	50-130				
Surrogate: 1,4-Dioxane-d8		*5.12*		*"*	*8.00*		*64.0*	*36.6-118*				
Batch BC51148 - EPA 3550C												
Blank (BC51148-BLK1)	Blank								Prepared: 03/16/2025 Analyzed: 03/17/2025			
1,4-Dioxane		ND	19.8	ug/kg								
Surrogate: 1,4-Dioxane-d8		*554*		*"*	*495*		*112*	*39-127.5*				
LCS (BC51148-BS1)	LCS								Prepared: 03/16/2025 Analyzed: 03/17/2025			
1,4-Dioxane		503	19.8	ug/kg	495		102	40-130				
Surrogate: 1,4-Dioxane-d8		*525*		*"*	*495*		*106*	*39-127.5*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51148 - EPA 3550C											
Matrix Spike (BC51148-MS1) Matrix Spike *Source sample: 25C0496-11 (SB33_0-2)								Prepared: 03/16/2025 Analyzed: 03/17/2025			
1,4-Dioxane	487	19.8	ug/kg	495	ND	98.4	40-130				
Surrogate: 1,4-Dioxane-d8	*584*		*"*	*495*		*118*	*40-130*				
Matrix Spike Dup (BC51148-M Matrix Spike Dup *Source sample: 25C0496-11 (SB33_0-2)								Prepared: 03/16/2025 Analyzed: 03/17/2025			
1,4-Dioxane	403	19.8	ug/kg	495	ND	81.4	40-130		18.9	30	
Surrogate: 1,4-Dioxane-d8	*485*		*"*	*495*		*98.0*	*40-130*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50781 - EPA 1633 Prep											
Blank (BC50781-BLK1) Blank									Prepared: 03/11/2025 Analyzed: 03/12/2025		
Perfluorobutanesulfonic acid (PFBS)	ND	0.176	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.199	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.199	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.182	"								
Perfluorooctanoic acid (PFOA)	ND	0.199	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.185	"								
Perfluorononanoic acid (PFNA)	ND	0.199	"								
Perfluorodecanoic acid (PFDA)	ND	0.199	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.199	"								
Perfluorododecanoic acid (PFDoA)	ND	0.199	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.199	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.199	"								
N-MeFOSAA	ND	0.199	"								
N-EtFOSAA	ND	0.199	"								
Perfluoropentanoic acid (PFPeA)	ND	0.398	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.199	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.199	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.192	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	0.757	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	0.765	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.797	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.355	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.398	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.398	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.398	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.187	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	ND	0.747	"								
HFPO-DA (Gen-X)	ND	0.797	"								
11CL-PF3OUdS	ND	0.753	"								
9CL-PF3ONS	ND	0.745	"								
ADONA	ND	0.753	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.193	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.191	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	0.996	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	4.98	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	4.98	"								
N-MeFOSE	ND	1.99	"								
N-MeFOSA	ND	0.199	"								
N-EtFOSE	ND	1.99	"								
N-EtFOSA	ND	0.199	"								
Surrogate: M3PFBS	*3.07*		*"*	*2.32*		*132*	*25-150*				
Surrogate: M5PFHxA	*3.06*		*"*	*2.49*		*123*	*25-150*				
Surrogate: M4PFHpA	*3.72*		*"*	*2.49*		*149*	*25-150*				
Surrogate: M3PFHxS	*3.06*		*"*	*2.36*		*130*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.02*		*"*	*2.49*		*121*	*25-150*				
Surrogate: M6PFDA	*1.40*		*"*	*1.25*		*112*	*25-150*				
Surrogate: M7PFUdA	*1.56*		*"*	*1.25*		*125*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.35*		*"*	*1.25*		*109*	*25-150*				
Surrogate: M2PFTeDA	*1.29*		*"*	*1.25*		*104*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50781 - EPA 1633 Prep											
Blank (BC50781-BLK1) Blank								Prepared: 03/11/2025 Analyzed: 03/12/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*11.9*		*ug/kg wet*	*9.96*		*120*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.55*		*"*	*2.39*		*107*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*6.41*		*"*	*4.98*		*129*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.39*		*"*	*2.49*		*96.0*	*10-150*				
Surrogate: d3-N-MeFOSAA	*5.70*		*"*	*4.98*		*115*	*25-150*				
Surrogate: d5-N-EtFOSAA	*5.88*		*"*	*4.98*		*118*	*25-150*				
Surrogate: M2-6:2 FTS	*5.42*		*"*	*4.74*		*114*	*25-200*				
Surrogate: M2-8:2 FTS	*5.15*		*"*	*4.78*		*108*	*25-200*				
Surrogate: M9PFNA	*1.18*		*"*	*1.25*		*94.8*	*25-150*				
Surrogate: M2-4:2 FTS	*6.04*		*"*	*4.67*		*129*	*25-150*				
Surrogate: d-N-MeFOSA	*1.68*		*"*	*2.49*		*67.3*	*25-150*				
Surrogate: d-N-EtFOSA	*2.05*		*"*	*2.49*		*82.2*	*25-150*				
Surrogate: M3HFPO-DA	*13.5*		*"*	*9.96*		*135*	*25-150*				
Surrogate: d9-N-EtFOSE	*19.7*		*"*	*24.9*		*79.0*	*25-150*				
Surrogate: d7-N-MeFOSE	*17.3*		*"*	*24.9*		*69.6*	*25-150*				
LCS (BC50781-BS1) LCS								Prepared: 03/11/2025 Analyzed: 03/12/2025			
Perfluorobutanesulfonic acid (PFBS)	3.27	0.175	ug/kg wet	3.49		93.7	50-150				
Perfluorohexanoic acid (PFHxA)	3.73	0.197	"	3.94		94.6	50-150				
Perfluoroheptanoic acid (PFHpA)	2.88	0.197	"	3.94		73.1	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.13	0.180	"	3.61		86.8	50-150				
Perfluorooctanoic acid (PFOA)	3.35	0.197	"	3.94		84.9	50-150				
Perfluorooctanesulfonic acid (PFOS)	2.90	0.183	"	3.67		79.0	50-150				
Perfluorononanoic acid (PFNA)	3.52	0.197	"	3.94		89.3	50-150				
Perfluorodecanoic acid (PFDA)	3.49	0.197	"	3.94		88.6	50-150				
Perfluoroundecanoic acid (PFUnA)	3.66	0.197	"	3.94		92.8	50-150				
Perfluorododecanoic acid (PFDoA)	2.83	0.197	"	3.94		71.7	50-150				
Perfluorotridecanoic acid (PFTrDA)	3.13	0.197	"	3.94		79.3	50-150				
Perfluorotetradecanoic acid (PFTA)	3.29	0.197	"	3.94		83.4	50-150				
N-MeFOSAA	3.87	0.197	"	3.94		98.1	50-150				
N-EtFOSAA	3.82	0.197	"	3.94		96.9	50-150				
Perfluoropentanoic acid (PFPeA)	7.06	0.394	"	7.89		89.5	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	3.98	0.197	"	3.94		101	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.40	0.197	"	3.77		90.4	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.30	0.190	"	3.81		86.8	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	14.0	0.750	"	15.0		93.1	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	14.7	0.757	"	15.1		97.0	50-150				
Perfluoro-n-butanoic acid (PFBA)	14.0	0.789	"	15.8		88.7	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	6.94	0.351	"	7.02		98.9	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	6.40	0.394	"	7.89		81.1	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	7.09	0.394	"	7.89		89.9	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	7.02	0.394	"	7.89		88.9	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	3.35	0.185	"	3.71		90.3	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	14.0	0.740	"	14.8		94.7	50-150				
HFPO-DA (Gen-X)	7.43	0.789	"	7.89		94.2	50-150				
11CL-PF3OUdS	5.08	0.746	"	7.46		68.1	50-150				
9CL-PF3ONS	6.01	0.738	"	7.38		81.4	50-150				
ADONA	6.13	0.746	"	7.46		82.2	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50781 - EPA 1633 Prep											
LCS (BC50781-BS1) LCS								Prepared: 03/11/2025 Analyzed: 03/12/2025			
Perfluorododecanesulfonic acid (PFDoS)	3.39	0.191	ug/kg wet	3.83		88.7	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	3.84	0.189	"	3.79		101	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	65.3	0.986	"	15.8		414	50-150	High Bias			
3-Perfluoropentyl propanoic acid (FPePA)	66.8	4.93	"	78.9		84.7	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	11.0	4.93	"	78.9		13.9	50-150	Low Bias			
N-MeFOSE	40.7	1.97	"	39.4		103	50-150				
N-MeFOSA	3.54	0.197	"	3.94		89.8	50-150				
N-EtFOSE	33.5	1.97	"	39.4		84.8	50-150				
N-EtFOSA	3.33	0.197	"	3.94		84.5	50-150				
Surrogate: M3PFBS	*3.30*		*"*	*2.30*		*143*	*25-150*				
Surrogate: M5PFHxA	*3.06*		*"*	*2.47*		*124*	*25-150*				
Surrogate: M4PFHpA	*3.99*		*"*	*2.47*		*162*	*25-150*				
Surrogate: M3PFHxS	*3.23*		*"*	*2.34*		*138*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.88*		*"*	*2.47*		*117*	*25-150*				
Surrogate: M6PFDA	*1.34*		*"*	*1.23*		*109*	*25-150*				
Surrogate: M7PFUdA	*1.63*		*"*	*1.23*		*132*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.51*		*"*	*1.23*		*123*	*25-150*				
Surrogate: M2PFTeDA	*1.40*		*"*	*1.23*		*114*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*11.8*		*"*	*9.86*		*119*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.79*		*"*	*2.36*		*118*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*6.42*		*"*	*4.93*		*130*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.35*		*"*	*2.47*		*95.2*	*10-150*				
Surrogate: d3-N-MeFOSAA	*5.70*		*"*	*4.93*		*116*	*25-150*				
Surrogate: d5-N-EtFOSAA	*5.91*		*"*	*4.93*		*120*	*25-150*				
Surrogate: M2-6:2 FTS	*6.11*		*"*	*4.69*		*130*	*25-200*				
Surrogate: M2-8:2 FTS	*5.94*		*"*	*4.73*		*125*	*25-200*				
Surrogate: M9PFNA	*1.40*		*"*	*1.23*		*114*	*25-150*				
Surrogate: M2-4:2 FTS	*6.48*		*"*	*4.63*		*140*	*25-150*				
Surrogate: d-N-MeFOSA	*2.47*		*"*	*2.47*		*100*	*25-150*				
Surrogate: d-N-EtFOSA	*2.43*		*"*	*2.47*		*98.4*	*25-150*				
Surrogate: M3HFPO-DA	*13.8*		*"*	*9.86*		*140*	*25-150*				
Surrogate: d9-N-EtFOSE	*23.3*		*"*	*24.7*		*94.5*	*25-150*				
Surrogate: d7-N-MeFOSE	*20.8*		*"*	*24.7*		*84.3*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50781 - EPA 1633 Prep											
LCS (BC50781-BS2) LCS								Prepared: 03/11/2025 Analyzed: 03/12/2025			
Perfluorobutanesulfonic acid (PFBS)	0.323	0.175	ug/kg wet	0.350		92.1	50-150				
Perfluorohexanoic acid (PFHxA)	0.345	0.198	"	0.396		87.2	50-150				
Perfluoroheptanoic acid (PFHpA)	0.311	0.198	"	0.396		78.6	50-150				
Perfluorohexanesulfonic acid (PFHxS)	0.326	0.181	"	0.362		90.0	50-150				
Perfluorooctanoic acid (PFOA)	0.293	0.198	"	0.396		74.0	50-150				
Perfluorooctanesulfonic acid (PFOS)	0.295	0.184	"	0.368		80.2	50-150				
Perfluorononanoic acid (PFNA)	0.303	0.198	"	0.396		76.5	50-150				
Perfluorodecanoic acid (PFDA)	0.342	0.198	"	0.396		86.4	50-150				
Perfluoroundecanoic acid (PFUnA)	0.347	0.198	"	0.396		87.6	50-150				
Perfluorododecanoic acid (PFDoA)	0.242	0.198	"	0.396		61.1	50-150				
Perfluorotridecanoic acid (PFTrDA)	0.281	0.198	"	0.396		70.9	50-150				
Perfluorotetradecanoic acid (PFTA)	0.310	0.198	"	0.396		78.3	50-150				
N-MeFOSAA	0.362	0.198	"	0.396		91.5	50-150				
N-EtFOSAA	0.360	0.198	"	0.396		90.9	50-150				
Perfluoropentanoic acid (PFPeA)	0.646	0.396	"	0.792		81.5	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	0.361	0.198	"	0.396		91.3	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.334	0.198	"	0.378		88.2	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	0.305	0.191	"	0.382		79.7	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	1.31	0.752	"	1.50		86.9	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	1.52	0.760	"	1.52		100	50-150				
Perfluoro-n-butanoic acid (PFBA)	1.35	0.792	"	1.58		85.3	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.634	0.352	"	0.705		90.0	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	0.676	0.396	"	0.792		85.3	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	0.687	0.396	"	0.792		86.8	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	0.667	0.396	"	0.792		84.2	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	0.332	0.186	"	0.372		89.1	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	1.45	0.743	"	1.49		98.0	50-150				
HFPO-DA (Gen-X)	1.01	0.792	"	0.792		128	50-150				
11CL-PF3OUdS	0.444	0.749	"	0.749		59.3	50-150				
9CL-PF3ONS	0.534	0.741	"	0.741		72.1	50-150				
ADONA	0.604	0.749	"	0.749		80.7	50-150				
Perfluorododecanesulfonic acid (PFDoS)	0.344	0.192	"	0.384		89.6	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	0.381	0.190	"	0.380		100	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	5.54	0.990	"	1.58		350	50-150	High Bias			
3-Perfluoropentyl propanoic acid (FPePA)	6.14	4.95	"	7.92		77.6	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	1.12	4.95	"	7.92		14.1	50-150	Low Bias			
N-MeFOSE	3.56	1.98	"	3.96		89.8	50-150				
N-MeFOSA	0.392	0.198	"	0.396		99.0	50-150				
N-EtFOSE	3.32	1.98	"	3.96		83.8	50-150				
N-EtFOSA	0.449	0.198	"	0.396		113	50-150				
Surrogate: M3PFBS	*3.48*		*"*	*2.31*		*151*	*25-150*				
Surrogate: M5PFHxA	*3.22*		*"*	*2.48*		*130*	*25-150*				
Surrogate: M4PFHpA	*3.81*		*"*	*2.48*		*154*	*25-150*				
Surrogate: M3PFHxS	*3.11*		*"*	*2.35*		*132*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.94*		*"*	*2.48*		*119*	*25-150*				
Surrogate: M6PFDA	*1.25*		*"*	*1.24*		*101*	*25-150*				
Surrogate: M7PFUdA	*1.37*		*"*	*1.24*		*111*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.37*		*"*	*1.24*		*111*	*25-150*				
Surrogate: M2PFTeDA	*1.24*		*"*	*1.24*		*101*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50781 - EPA 1633 Prep											
LCS (BC50781-BS2) LCS								Prepared: 03/11/2025 Analyzed: 03/12/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*12.9*		*ug/kg wet*	*9.90*		*131*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.41*		*"*	*2.37*		*101*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*6.70*		*"*	*4.95*		*135*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.28*		*"*	*2.48*		*91.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*5.28*		*"*	*4.95*		*107*	*25-150*				
Surrogate: d5-N-EtFOSAA	*5.47*		*"*	*4.95*		*111*	*25-150*				
Surrogate: M2-6:2 FTS	*6.13*		*"*	*4.71*		*130*	*25-200*				
Surrogate: M2-8:2 FTS	*5.49*		*"*	*4.75*		*116*	*25-200*				
Surrogate: M9PFNA	*1.45*		*"*	*1.24*		*117*	*25-150*				
Surrogate: M2-4:2 FTS	*6.59*		*"*	*4.64*		*142*	*25-150*				
Surrogate: d-N-MeFOSA	*2.25*		*"*	*2.48*		*91.0*	*25-150*				
Surrogate: d-N-EtFOSA	*2.17*		*"*	*2.48*		*87.8*	*25-150*				
Surrogate: M3HFPO-DA	*13.0*		*"*	*9.90*		*132*	*25-150*				
Surrogate: d9-N-EtFOSE	*20.6*		*"*	*24.8*		*83.2*	*25-150*				
Surrogate: d7-N-MeFOSE	*19.8*		*"*	*24.8*		*80.1*	*25-150*				
Batch BC51162 - EPA 1633 Prep											
Blank (BC51162-BLK1) Blank								Prepared: 03/16/2025 Analyzed: 03/17/2025			
Perfluorobutanesulfonic acid (PFBS)	ND	1.77	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.83	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	1.86	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	4.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.91	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.93	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	7.60	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	7.68	"								
Perfluoro-n-butanoic acid (PFBA)	ND	8.00	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.56	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	4.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	4.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	4.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.88	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	ND	7.50	"								
HFPO-DA (Gen-X)	ND	8.00	"								
11CL-PF3OUdS	ND	7.56	"								

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51162 - EPA 1633 Prep											
Blank (BC51162-BLK1) Blank								Prepared: 03/16/2025 Analyzed: 03/17/2025			
9CL-PF3ONS	ND	7.48	ng/L								
ADONA	ND	7.56	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	1.94	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.92	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	5.00	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	25.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	25.0	"								
N-MeFOSE	ND	20.0	"								
N-MeFOSA	ND	2.00	"								
N-EtFOSE	ND	20.0	"								
N-EtFOSA	ND	2.00	"								
Surrogate: M3PFBS	*26.8*		*"*	*23.3*		*115*	*25-150*				
Surrogate: M5PFHxA	*33.7*		*"*	*25.0*		*135*	*25-150*				
Surrogate: M4PFHpA	*33.6*		*"*	*25.0*		*134*	*25-150*				
Surrogate: M3PFHxS	*31.9*		*"*	*23.7*		*135*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*37.3*		*"*	*25.0*		*149*	*25-150*				
Surrogate: M6PFDA	*17.8*		*"*	*12.5*		*142*	*25-150*				
Surrogate: M7PFUdA	*17.0*		*"*	*12.5*		*136*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*16.0*		*"*	*12.5*		*128*	*25-150*				
Surrogate: M2PFTeDA	*9.87*		*"*	*12.5*		*79.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*3.89*		*"*	*100*		*3.89*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*32.9*		*"*	*24.0*		*138*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*37.7*		*"*	*50.0*		*75.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*29.3*		*"*	*25.0*		*117*	*10-150*				
Surrogate: d3-N-MeFOSAA	*55.0*		*"*	*50.0*		*110*	*25-150*				
Surrogate: d5-N-EtFOSAA	*56.5*		*"*	*50.0*		*113*	*25-150*				
Surrogate: M2-6:2 FTS	*57.1*		*"*	*47.6*		*120*	*25-200*				
Surrogate: M2-8:2 FTS	*58.6*		*"*	*48.0*		*122*	*25-200*				
Surrogate: M9PFNA	*14.1*		*"*	*12.5*		*113*	*25-150*				
Surrogate: M2-4:2 FTS	*56.3*		*"*	*46.9*		*120*	*25-150*				
Surrogate: d-N-MeFOSA	*27.8*		*"*	*25.0*		*111*	*25-150*				
Surrogate: d-N-EtFOSA	*25.4*		*"*	*25.0*		*102*	*25-150*				
Surrogate: M3HFPO-DA	*143*		*"*	*100*		*143*	*25-150*				
Surrogate: d9-N-EtFOSE	*148*		*"*	*250*		*59.2*	*25-150*				
Surrogate: d7-N-MeFOSE	*171*		*"*	*250*		*68.4*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51162 - EPA 1633 Prep											
LCS (BC51162-BS1) LCS								Prepared: 03/16/2025 Analyzed: 03/17/2025			
Perfluorobutanesulfonic acid (PFBS)	38.2	1.77	ng/L	35.4		108	50-150				
Perfluorohexanoic acid (PFHxA)	38.9	2.00	"	40.0		97.2	50-150				
Perfluoroheptanoic acid (PFHpA)	38.6	2.00	"	40.0		96.4	50-150				
Perfluorohexanesulfonic acid (PFHxS)	38.3	1.83	"	36.6		105	50-150				
Perfluorooctanoic acid (PFOA)	31.1	2.00	"	40.0		77.7	50-150				
Perfluorooctanesulfonic acid (PFOS)	35.4	1.86	"	37.2		95.2	50-150				
Perfluorononanoic acid (PFNA)	38.8	2.00	"	40.0		97.1	50-150				
Perfluorodecanoic acid (PFDA)	31.8	2.00	"	40.0		79.4	50-150				
Perfluoroundecanoic acid (PFUnA)	38.4	2.00	"	40.0		95.9	50-150				
Perfluorododecanoic acid (PFDoA)	30.8	2.00	"	40.0		76.9	50-150				
Perfluorotridecanoic acid (PFTrDA)	39.7	2.00	"	40.0		99.2	50-150				
Perfluorotetradecanoic acid (PFTA)	37.8	2.00	"	40.0		94.5	50-150				
N-MeFOSAA	44.1	2.00	"	40.0		110	50-150				
N-EtFOSAA	42.5	2.00	"	40.0		106	50-150				
Perfluoropentanoic acid (PFPeA)	76.6	4.00	"	80.0		95.8	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	39.0	2.00	"	40.0		97.5	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	34.5	1.91	"	38.2		90.3	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	33.7	1.93	"	38.6		87.2	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	157	7.60	"	152		103	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	173	7.68	"	154		113	50-150				
Perfluoro-n-butanoic acid (PFBA)	119	8.00	"	160		74.4	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	88.6	3.56	"	71.2		124	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	50.3	4.00	"	80.0		62.8	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	16.4	4.00	"	80.0		20.5	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	122	4.00	"	80.0		152	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	40.0	1.88	"	37.6		106	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	160	7.50	"	150		106	50-150				
HFPO-DA (Gen-X)	81.4	8.00	"	80.0		102	50-150				
11CL-PF3OUdS	79.5	7.56	"	75.6		105	50-150				
9CL-PF3ONS	89.1	7.48	"	74.8		119	50-150				
ADONA	85.9	7.56	"	75.6		114	50-150				
Perfluorododecanesulfonic acid (PFDoS)	28.0	1.94	"	38.8		72.1	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	39.8	1.92	"	38.4		104	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	866	5.00	"	160		541	50-150	High Bias			
3-Perfluoropentyl propanoic acid (FPePA)	858	25.0	"	800		107	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	69.8	25.0	"	800		8.72	50-150	Low Bias			
N-MeFOSE	456	20.0	"	400		114	50-150				
N-MeFOSA	42.2	2.00	"	40.0		106	50-150				
N-EtFOSE	406	20.0	"	400		101	50-150				
N-EtFOSA	37.1	2.00	"	40.0		92.8	50-150				
Surrogate: M3PFBS	*26.4*		*"*	*23.3*		*113*	*25-150*				
Surrogate: M5PFHxA	*32.5*		*"*	*25.0*		*130*	*25-150*				
Surrogate: M4PFHpA	*35.6*		*"*	*25.0*		*142*	*25-150*				
Surrogate: M3PFHxS	*28.5*		*"*	*23.7*		*120*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*33.0*		*"*	*25.0*		*132*	*25-150*				
Surrogate: M6PFDA	*17.4*		*"*	*12.5*		*139*	*25-150*				
Surrogate: M7PFUdA	*17.8*		*"*	*12.5*		*142*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*16.4*		*"*	*12.5*		*132*	*25-150*				
Surrogate: M2PFTeDA	*10.9*		*"*	*12.5*		*87.3*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51162 - EPA 1633 Prep											
LCS (BC51162-BS1) LCS								Prepared: 03/16/2025 Analyzed: 03/17/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.96*		*ng/L*	*100*		*2.96*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*30.6*		*"*	*24.0*		*128*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*34.3*		*"*	*50.0*		*68.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*28.3*		*"*	*25.0*		*113*	*10-150*				
Surrogate: d3-N-MeFOSAA	*54.7*		*"*	*50.0*		*109*	*25-150*				
Surrogate: d5-N-EtFOSAA	*53.8*		*"*	*50.0*		*108*	*25-150*				
Surrogate: M2-6:2 FTS	*50.7*		*"*	*47.6*		*107*	*25-200*				
Surrogate: M2-8:2 FTS	*52.6*		*"*	*48.0*		*110*	*25-200*				
Surrogate: M9PFNA	*13.6*		*"*	*12.5*		*108*	*25-150*				
Surrogate: M2-4:2 FTS	*48.7*		*"*	*46.9*		*104*	*25-150*				
Surrogate: d-N-MeFOSA	*27.5*		*"*	*25.0*		*110*	*25-150*				
Surrogate: d-N-EtFOSA	*24.1*		*"*	*25.0*		*96.4*	*25-150*				
Surrogate: M3HFPO-DA	*137*		*"*	*100*		*137*	*25-150*				
Surrogate: d9-N-EtFOSE	*185*		*"*	*250*		*74.2*	*25-150*				
Surrogate: d7-N-MeFOSE	*189*		*"*	*250*		*75.7*	*25-150*				
LCS (BC51162-BS2) LCS								Prepared: 03/16/2025 Analyzed: 03/17/2025			
Perfluorobutanesulfonic acid (PFBS)	4.15	1.77	ng/L	3.54		117	50-150				
Perfluorohexanoic acid (PFHxA)	4.33	2.00	"	4.00		108	50-150				
Perfluoroheptanoic acid (PFHpA)	4.00	2.00	"	4.00		100	50-150				
Perfluorohexanesulfonic acid (PFHxS)	4.74	1.83	"	3.66		129	50-150				
Perfluorooctanoic acid (PFOA)	3.34	2.00	"	4.00		83.4	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.88	1.86	"	3.72		104	50-150				
Perfluorononanoic acid (PFNA)	4.62	2.00	"	4.00		115	50-150				
Perfluorodecanoic acid (PFDA)	3.62	2.00	"	4.00		90.4	50-150				
Perfluoroundecanoic acid (PFUnA)	3.80	2.00	"	4.00		95.0	50-150				
Perfluorododecanoic acid (PFDoA)	3.04	2.00	"	4.00		75.9	50-150				
Perfluorotridecanoic acid (PFTrDA)	3.57	2.00	"	4.00		89.3	50-150				
Perfluorotetradecanoic acid (PFTA)	3.79	2.00	"	4.00		94.7	50-150				
N-MeFOSAA	4.44	2.00	"	4.00		111	50-150				
N-EtFOSAA	4.52	2.00	"	4.00		113	50-150				
Perfluoropentanoic acid (PFPeA)	7.66	4.00	"	8.00		95.7	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.06	2.00	"	4.00		101	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.77	1.91	"	3.82		98.8	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.78	1.93	"	3.86		97.9	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	16.6	7.60	"	15.2		109	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	19.2	7.68	"	15.4		125	50-150				
Perfluoro-n-butanoic acid (PFBA)	13.2	8.00	"	16.0		82.5	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	9.21	3.56	"	7.12		129	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	3.99	4.00	"	8.00		49.9	50-150	Low Bias			
Perfluoro-4-oxapentanoic acid (PFMPA)	2.07	4.00	"	8.00		25.9	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	9.90	4.00	"	8.00		124	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	4.05	1.88	"	3.76		108	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	16.8	7.50	"	15.0		112	50-150				
HFPO-DA (Gen-X)	6.66	8.00	"	8.00		83.3	50-150				
11CL-PF3OUdS	6.65	7.56	"	7.56		88.0	50-150				
9CL-PF3ONS	7.65	7.48	"	7.48		102	50-150				
ADONA	7.39	7.56	"	7.56		97.8	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51162 - EPA 1633 Prep											
LCS (BC51162-BS2) LCS								Prepared: 03/16/2025 Analyzed: 03/17/2025			
Perfluorododecanesulfonic acid (PFDoS)	2.84	1.94	ng/L	3.88		73.3	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	4.17	1.92	"	3.84		109	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	82.0	5.00	"	16.0		512	50-150	High Bias			
3-Perfluoropentyl propanoic acid (FPePA)	80.8	25.0	"	80.0		101	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	8.51	25.0	"	80.0		10.6	50-150	Low Bias			
N-MeFOSE	43.7	20.0	"	40.0		109	50-150				
N-MeFOSA	4.43	2.00	"	4.00		111	50-150				
N-EtFOSE	43.6	20.0	"	40.0		109	50-150				
N-EtFOSA	3.81	2.00	"	4.00		95.2	50-150				
Surrogate: M3PFBS	*28.0*		*"*	*23.3*		*120*	*25-150*				
Surrogate: M5PFHxA	*31.2*		*"*	*25.0*		*125*	*25-150*				
Surrogate: M4PFHpA	*33.4*		*"*	*25.0*		*133*	*25-150*				
Surrogate: M3PFHxS	*28.0*		*"*	*23.7*		*118*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*33.0*		*"*	*25.0*		*132*	*25-150*				
Surrogate: M6PFDA	*14.9*		*"*	*12.5*		*120*	*25-150*				
Surrogate: M7PFUdA	*14.5*		*"*	*12.5*		*116*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*12.6*		*"*	*12.5*		*100*	*25-150*				
Surrogate: M2PFTeDA	*11.5*		*"*	*12.5*		*91.9*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.97*		*"*	*100*		*4.97*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*31.9*		*"*	*24.0*		*133*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*52.8*		*"*	*50.0*		*106*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*28.3*		*"*	*25.0*		*113*	*10-150*				
Surrogate: d3-N-MeFOSAA	*54.4*		*"*	*50.0*		*109*	*25-150*				
Surrogate: d5-N-EtFOSAA	*56.0*		*"*	*50.0*		*112*	*25-150*				
Surrogate: M2-6:2 FTS	*50.4*		*"*	*47.6*		*106*	*25-200*				
Surrogate: M2-8:2 FTS	*47.6*		*"*	*48.0*		*99.2*	*25-200*				
Surrogate: M9PFNA	*13.1*		*"*	*12.5*		*105*	*25-150*				
Surrogate: M2-4:2 FTS	*51.0*		*"*	*46.9*		*109*	*25-150*				
Surrogate: d-N-MeFOSA	*25.4*		*"*	*25.0*		*101*	*25-150*				
Surrogate: d-N-EtFOSA	*23.8*		*"*	*25.0*		*95.3*	*25-150*				
Surrogate: M3HFPO-DA	*144*		*"*	*100*		*144*	*25-150*				
Surrogate: d9-N-EtFOSE	*188*		*"*	*250*		*75.1*	*25-150*				
Surrogate: d7-N-MeFOSE	*201*		*"*	*250*		*80.4*	*25-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50949 - EPA SW846-3510C Low Level											
Blank (BC50949-BLK1) Blank							Prepared & Analyzed: 03/13/2025				
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Chlordane, total	ND	0.200	"								
Surrogate: Decachlorobiphenyl	*0.104*		*"*	*0.200*		*51.9*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.101*		*"*	*0.200*		*50.7*	*30-150*				
LCS (BC50949-BS1) LCS							Prepared: 03/13/2025 Analyzed: 03/14/2025				
4,4'-DDD	0.0698	0.00400	ug/L	0.100		69.8	40-140			20	
4,4'-DDE	0.0671	0.00400	"	0.100		67.1	40-140			20	
4,4'-DDT	0.0788	0.00400	"	0.100		78.8	40-140			20	
Aldrin	0.0490	0.00400	"	0.100		49.0	40-140			20	
alpha-BHC	0.0559	0.00400	"	0.100		55.9	40-140			20	
alpha-Chlordane	0.0640	0.00400	"	0.100		64.0	40-140			20	
beta-BHC	0.0579	0.00400	"	0.100		57.9	40-140			20	
delta-BHC	0.0508	0.00400	"	0.100		50.8	40-140			20	
Dieldrin	0.0691	0.00200	"	0.100		69.1	40-140			20	
Endosulfan I	0.0719	0.00400	"	0.100		71.9	40-140			20	
Endosulfan II	0.0824	0.00400	"	0.100		82.4	40-140			20	
Endosulfan sulfate	0.0719	0.00400	"	0.100		71.9	40-140			20	
Endrin	0.0775	0.00400	"	0.100		77.5	40-140			20	
Endrin aldehyde	0.0827	0.0100	"	0.100		82.7	40-140			20	
Endrin ketone	0.0799	0.0100	"	0.100		79.9	40-140			20	
gamma-BHC (Lindane)	0.0597	0.00400	"	0.100		59.7	40-140			20	
gamma-Chlordane	0.0613	0.0100	"	0.100		61.3	40-140			20	
Heptachlor	0.0510	0.00400	"	0.100		51.0	40-140			20	
Heptachlor epoxide	0.0667	0.00400	"	0.100		66.7	40-140			20	
Methoxychlor	0.0771	0.00400	"	0.100		77.1	40-140			20	
Surrogate: Decachlorobiphenyl	*0.0880*		*"*	*0.200*		*44.0*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0975*		*"*	*0.200*		*48.8*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50955 - EPA 3550C											
Blank (BC50955-BLK1) Blank							Prepared & Analyzed: 03/13/2025				
4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								
Surrogate: Decachlorobiphenyl	*0.0513*		*"*	*0.0664*		*77.1*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0515*		*"*	*0.0664*		*77.4*	*30-150*				
LCS (BC50955-BS1) LCS							Prepared & Analyzed: 03/13/2025				
4,4'-DDD	0.0160	0.000329	mg/kg wet	0.0332		48.2	40-140				
4,4'-DDE	0.0161	0.000329	"	0.0332		48.6	40-140				
4,4'-DDT	0.0155	0.000329	"	0.0332		46.8	40-140				
Aldrin	0.0156	0.000329	"	0.0332		47.1	40-140				
alpha-BHC	0.0167	0.000329	"	0.0332		50.2	40-140				
alpha-Chlordane	0.0160	0.000329	"	0.0332		48.3	40-140				
beta-BHC	0.0161	0.000329	"	0.0332		48.3	40-140				
delta-BHC	0.0134	0.000329	"	0.0332		40.3	40-140				
Dieldrin	0.0160	0.000329	"	0.0332		48.1	40-140				
Endosulfan I	0.0163	0.000329	"	0.0332		49.0	40-140				
Endosulfan II	0.0169	0.000329	"	0.0332		51.0	40-140				
Endosulfan sulfate	0.0149	0.000329	"	0.0332		45.0	40-140				
Endrin	0.0163	0.000329	"	0.0332		49.1	40-140				
Endrin aldehyde	0.0176	0.000329	"	0.0332		52.9	40-140				
Endrin ketone	0.0164	0.000329	"	0.0332		49.3	40-140				
gamma-BHC (Lindane)	0.0164	0.000329	"	0.0332		49.4	40-140				
gamma-Chlordane	0.0159	0.000329	"	0.0332		47.7	40-140				
Heptachlor	0.0162	0.000329	"	0.0332		48.8	40-140				
Heptachlor epoxide	0.0157	0.000329	"	0.0332		47.4	40-140				
Methoxychlor	0.0160	0.000329	"	0.0332		48.2	40-140				
Surrogate: Decachlorobiphenyl	*0.0241*		*"*	*0.0664*		*36.3*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0217*		*"*	*0.0664*		*32.7*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51072 - EPA 3550C											
Blank (BC51072-BLK1) Blank							Prepared & Analyzed: 03/14/2025				
4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								
Surrogate: Decachlorobiphenyl	*0.0586*		*"*	*0.0664*		*88.3*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0604*		*"*	*0.0664*		*90.9*	*30-150*				
LCS (BC51072-BS1) LCS							Prepared: 03/14/2025 Analyzed: 03/17/2025				
4,4'-DDD	0.0409	0.00164	mg/kg wet	0.0332		123	40-140				
4,4'-DDE	0.0411	0.00164	"	0.0332		124	40-140				
4,4'-DDT	0.0432	0.00164	"	0.0332		130	40-140				
Aldrin	0.0384	0.00164	"	0.0332		116	40-140				
alpha-BHC	0.0404	0.00164	"	0.0332		122	40-140				
alpha-Chlordane	0.0407	0.00164	"	0.0332		122	40-140				
beta-BHC	0.0374	0.00164	"	0.0332		112	40-140				
delta-BHC	0.0347	0.00164	"	0.0332		104	40-140				
Dieldrin	0.0414	0.00164	"	0.0332		125	40-140				
Endosulfan I	0.0406	0.00164	"	0.0332		122	40-140				
Endosulfan II	0.0434	0.00164	"	0.0332		131	40-140				
Endosulfan sulfate	0.0410	0.00164	"	0.0332		124	40-140				
Endrin	0.0429	0.00164	"	0.0332		129	40-140				
Endrin aldehyde	0.0433	0.00164	"	0.0332		130	40-140				
Endrin ketone	0.0410	0.00164	"	0.0332		124	40-140				
gamma-BHC (Lindane)	0.0398	0.00164	"	0.0332		120	40-140				
gamma-Chlordane	0.0398	0.00164	"	0.0332		120	40-140				
Heptachlor	0.0418	0.00164	"	0.0332		126	40-140				
Heptachlor epoxide	0.0413	0.00164	"	0.0332		124	40-140				
Methoxychlor	0.0428	0.00164	"	0.0332		129	40-140				
Surrogate: Decachlorobiphenyl	*0.0581*		*"*	*0.0664*		*87.5*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0633*		*"*	*0.0664*		*95.2*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51072 - EPA 3550C											
Matrix Spike (BC51072-MS1) Matrix Spike *Source sample: 25C0496-11 (SB33_0-2)								Prepared: 03/14/2025 Analyzed: 03/17/2025			
4,4'-DDD	0.0408	0.00178	mg/kg dry	0.0359	ND	114	30-150				
4,4'-DDE	0.0410	0.00178	"	0.0359	ND	114	30-150				
4,4'-DDT	0.0415	0.00178	"	0.0359	ND	116	30-150				
Aldrin	0.0385	0.00178	"	0.0359	ND	107	30-150				
alpha-BHC	0.0403	0.00178	"	0.0359	ND	112	30-150				
alpha-Chlordane	0.0420	0.00178	"	0.0359	ND	117	30-150				
beta-BHC	0.0383	0.00178	"	0.0359	ND	107	30-150				
delta-BHC	0.0350	0.00178	"	0.0359	ND	97.4	30-150				
Dieldrin	0.0411	0.00178	"	0.0359	ND	114	30-150				
Endosulfan I	0.0410	0.00178	"	0.0359	ND	114	30-150				
Endosulfan II	0.0432	0.00178	"	0.0359	ND	120	30-150				
Endosulfan sulfate	0.0405	0.00178	"	0.0359	ND	113	30-150				
Endrin	0.0432	0.00178	"	0.0359	ND	120	30-150				
Endrin aldehyde	0.0443	0.00178	"	0.0359	ND	123	30-150				
Endrin ketone	0.0414	0.00178	"	0.0359	ND	115	30-150				
gamma-BHC (Lindane)	0.0406	0.00178	"	0.0359	ND	113	30-150				
gamma-Chlordane	0.0405	0.00178	"	0.0359	ND	113	30-150				
Heptachlor	0.0434	0.00178	"	0.0359	ND	121	30-150				
Heptachlor epoxide	0.0415	0.00178	"	0.0359	ND	115	30-150				
Methoxychlor	0.0430	0.00178	"	0.0359	ND	120	30-150				
Surrogate: Decachlorobiphenyl	*0.0609*		*"*	*0.0719*		*84.8*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0640*		*"*	*0.0719*		*89.0*	*30-150*				
Matrix Spike Dup (BC51072-! Matrix Spike Dup *Source sample: 25C0496-11 (SB33_0-2)								Prepared: 03/14/2025 Analyzed: 03/17/2025			
4,4'-DDD	0.0385	0.00178	mg/kg dry	0.0359	ND	107	30-150		5.92	30	
4,4'-DDE	0.0384	0.00178	"	0.0359	ND	107	30-150		6.63	30	
4,4'-DDT	0.0388	0.00178	"	0.0359	ND	108	30-150		6.80	30	
Aldrin	0.0364	0.00178	"	0.0359	ND	101	30-150		5.61	30	
alpha-BHC	0.0382	0.00178	"	0.0359	ND	106	30-150		5.24	30	
alpha-Chlordane	0.0395	0.00178	"	0.0359	ND	110	30-150		6.04	30	
beta-BHC	0.0369	0.00178	"	0.0359	ND	103	30-150		3.79	30	
delta-BHC	0.0332	0.00178	"	0.0359	ND	92.3	30-150		5.37	30	
Dieldrin	0.0387	0.00178	"	0.0359	ND	108	30-150		6.10	30	
Endosulfan I	0.0387	0.00178	"	0.0359	ND	108	30-150		5.97	30	
Endosulfan II	0.0406	0.00178	"	0.0359	ND	113	30-150		6.12	30	
Endosulfan sulfate	0.0379	0.00178	"	0.0359	ND	105	30-150		6.77	30	
Endrin	0.0406	0.00178	"	0.0359	ND	113	30-150		6.34	30	
Endrin aldehyde	0.0412	0.00178	"	0.0359	ND	115	30-150		7.42	30	
Endrin ketone	0.0387	0.00178	"	0.0359	ND	108	30-150		6.82	30	
gamma-BHC (Lindane)	0.0384	0.00178	"	0.0359	ND	107	30-150		5.54	30	
gamma-Chlordane	0.0382	0.00178	"	0.0359	ND	106	30-150		5.76	30	
Heptachlor	0.0411	0.00178	"	0.0359	ND	114	30-150		5.25	30	
Heptachlor epoxide	0.0392	0.00178	"	0.0359	ND	109	30-150		5.57	30	
Methoxychlor	0.0407	0.00178	"	0.0359	ND	113	30-150		5.56	30	
Surrogate: Decachlorobiphenyl	*0.0599*		*"*	*0.0719*		*83.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0628*		*"*	*0.0719*		*87.3*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50947 - EPA SW846-3510C Low Level											
Blank (BC50947-BLK1) Blank							Prepared & Analyzed: 03/13/2025				
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.0530*		*"*	*0.200*		*26.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0730*		*"*	*0.200*		*36.5*	*30-120*				
LCS (BC50947-BS2) LCS							Prepared & Analyzed: 03/13/2025				
Aroclor 1016	0.431	0.0500	ug/L	1.00		43.1	40-120				
Aroclor 1260	0.478	0.0500	"	1.00		47.8	40-120				
Surrogate: Tetrachloro-m-xylene	*0.0500*		*"*	*0.200*		*25.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0930*		*"*	*0.200*		*46.5*	*30-120*				
Batch BC50952 - EPA 3550C											
Blank (BC50952-BLK1) Blank							Prepared & Analyzed: 03/13/2025				
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	*0.0385*		*"*	*0.0664*		*58.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0292*		*"*	*0.0664*		*44.0*	*30-120*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50952 - EPA 3550C											
LCS (BC50952-BS2) LCS							Prepared & Analyzed: 03/13/2025				
Aroclor 1016	0.244	0.0166	mg/kg wet	0.332		73.4	40-130				
Aroclor 1260	0.242	0.0166	"	0.332		72.7	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0395*		*"*	*0.0664*		*59.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0309*		*"*	*0.0664*		*46.5*	*30-120*				
Batch BC51071 - EPA 3550C											
Blank (BC51071-BLK2) Blank							Prepared & Analyzed: 03/14/2025				
Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Total PCBs	ND	0.0167	"								
Surrogate: Tetrachloro-m-xylene	*0.0563*		*"*	*0.0667*		*84.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0493*		*"*	*0.0667*		*74.0*	*30-120*				
LCS (BC51071-BS2) LCS							Prepared & Analyzed: 03/14/2025				
Aroclor 1016	0.304	0.0166	mg/kg wet	0.332		91.4	40-130				
Aroclor 1260	0.300	0.0166	"	0.332		90.4	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0502*		*"*	*0.0664*		*75.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0475*		*"*	*0.0664*		*71.5*	*30-120*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50782 - EPA 8151A											
Blank (BC50782-BLK1) Blank							Prepared: 03/11/2025 Analyzed: 03/12/2025				
2,4,5-T	ND	5.00	ug/L								
2,4,5-TP (Silvex)	ND	5.00	"								
2,4-D	ND	5.00	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*113*		*"*	*125*		*90.4*	*30-150*				
LCS (BC50782-BS1) LCS							Prepared: 03/11/2025 Analyzed: 03/12/2025				
2,4,5-T	19.8	5.00	ug/L	20.0		98.8	10-140				
2,4,5-TP (Silvex)	17.5	5.00	"	20.0		87.5	10-139				
2,4-D	17.2	5.00	"	20.0		86.2	10-140				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*113*		*"*	*125*		*90.4*	*30-150*				
Batch BC51068 - EPA 3550C/8151A											
Blank (BC51068-BLK1) Blank							Prepared: 03/14/2025 Analyzed: 03/16/2025				
2,4,5-T	ND	0.0199	mg/kg wet								
2,4,5-TP (Silvex)	ND	0.0199	"								
2,4-D	ND	0.0199	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.388*		*"*	*0.415*		*93.4*	*21-150*				
LCS (BC51068-BS1) LCS							Prepared: 03/14/2025 Analyzed: 03/16/2025				
2,4,5-T	0.0681	0.0199	mg/kg wet	0.0664		102	10-120				
2,4,5-TP (Silvex)	0.0648	0.0199	"	0.0664		97.5	10-120				
2,4-D	0.0598	0.0199	"	0.0664		90.0	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.401*		*"*	*0.415*		*96.6*	*21-150*				
Matrix Spike (BC51068-MS1) Matrix Spike *Source sample: 25C0496-11 (SB33_0-2)							Prepared: 03/14/2025 Analyzed: 03/16/2025				
2,4,5-T	0.0566	0.0216	mg/kg dry	0.0719	ND	78.8	10-120				
2,4,5-TP (Silvex)	0.0719	0.0216	"	0.0719	ND	100	10-120				
2,4-D	0.0836	0.0216	"	0.0719	ND	116	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.392*		*"*	*0.449*		*87.2*	*21-150*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51068 - EPA 3550C/8151A											
Matrix Spike Dup (BC51068-M Matrix Spike Dup	*Source sample: 25C0496-11 (SB33_0-2)								Prepared: 03/14/2025 Analyzed: 03/16/2025		
2,4,5-T	0.103	0.0216	mg/kg dry	0.0719	ND	144	10-120	High Bias	58.4	35	Non-dir.
2,4,5-TP (Silvex)	0.0611	0.0216	"	0.0719	ND	85.0	10-120		16.2	35	
2,4-D	0.164	0.0216	"	0.0719	ND	227	10-118	High Bias	64.7	35	Non-dir.
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.368*		*"*	*0.449*		*82.0*	*21-150*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50840 - EPA 3015A											
Blank (BC50840-BLK1) Blank								Prepared & Analyzed: 03/12/2025			
Aluminum	ND	0.0556	mg/L								
Barium	ND	0.0278	"								
Calcium	ND	0.0556	"								
Chromium	ND	0.00556	"								
Cobalt	ND	0.00444	"								
Copper	ND	0.0222	"								
Iron	ND	0.278	"								
Lead	ND	0.00556	"								
Magnesium	ND	0.0556	"								
Manganese	ND	0.00556	"								
Nickel	ND	0.0111	"								
Potassium	ND	0.0556	"								
Silver	ND	0.00556	"								
Sodium	ND	0.556	"								
Vanadium	ND	0.0111	"								
Zinc	ND	0.0278	"								
LCS (BC50840-BS1) LCS								Prepared & Analyzed: 03/12/2025			
Aluminum	1.82		ug/mL	2.00		91.0	80-120				
Barium	1.98		"	2.00		98.8	80-120				
Calcium	1.19		"	1.00		119	80-120				
Chromium	0.198		"	0.200		98.8	80-120				
Cobalt	0.500		"	0.500		99.9	80-120				
Copper	0.250		"	0.250		100	80-120				
Iron	0.936		"	1.00		93.6	80-120				
Lead	0.488		"	0.500		97.6	80-120				
Magnesium	0.973		"	1.00		97.3	80-120				
Manganese	0.492		"	0.500		98.4	80-120				
Nickel	0.502		"	0.500		100	80-120				
Potassium	1.00		"	1.00		100	80-120				
Silver	0.0477		"	0.0500		95.4	80-120				
Sodium	0.896		"	1.00		89.6	80-120				
Vanadium	0.477		"	0.500		95.4	80-120				
Zinc	0.485		"	0.500		97.0	80-120				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50897 - EPA 3050B											
Blank (BC50897-BLK1) Blank								Prepared: 03/12/2025 Analyzed: 03/13/2025			
Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	ND	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	ND	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	1.67	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								
Duplicate (BC50897-DUP1) Duplicate *Source sample: 25C0496-11 (SB33_0-2)								Prepared: 03/12/2025 Analyzed: 03/13/2025			
Aluminum	9700	4.51	mg/kg dry		9840				1.44	35	
Antimony	ND	2.25	"		ND					35	
Arsenic	3.74	1.35	"		3.48				7.24	35	
Barium	64.8	2.25	"		70.3				8.03	35	
Beryllium	0.364	0.045	"		0.407				11.2	35	
Cadmium	ND	0.270	"		ND					35	
Calcium	1920	4.51	"		2440				24.0	35	
Chromium	18.4	0.451	"		19.0				3.38	35	
Cobalt	7.18	0.360	"		7.47				4.06	35	
Copper	24.8	1.80	"		22.8				8.50	35	
Iron	15600	22.5	"		15000				3.69	35	
Lead	84.7	0.451	"		61.4				31.8	35	
Magnesium	2300	4.51	"		2630				13.1	35	
Manganese	240	0.451	"		239				0.372	35	
Nickel	17.1	0.898	"		17.7				3.57	35	
Potassium	1050	4.51	"		1120				6.82	35	
Selenium	ND	2.25	"		ND					35	
Silver	ND	0.454	"		ND					35	
Sodium	149	45.1	"		161				7.20	35	
Thallium	ND	1.81	"		ND					35	
Vanadium	28.1	0.898	"		26.5				6.08	35	
Zinc	50.7	2.24	"		57.1				11.9	35	

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50897 - EPA 3050B											
Matrix Spike (BC50897-MS1) Matrix Spike *Source sample: 25C0496-11 (SB33_0-2)								Prepared: 03/12/2025 Analyzed: 03/13/2025			
Aluminum	8470	4.51	mg/kg dry	180	9840	NR	75-125	Low Bias			
Antimony	5.86	2.25	"	22.5	ND	26.0	75-125	Low Bias			
Arsenic	171	1.35	"	180	3.48	92.8	75-125				
Barium	224	2.25	"	180	70.3	85.4	75-125				
Beryllium	4.83	0.045	"	4.51	0.407	98.1	75-125				
Cadmium	4.23	0.270	"	4.51	ND	93.8	75-125				
Calcium	2980	4.51	"	90.2	2440	598	75-125	High Bias			
Chromium	38.2	0.451	"	18.0	19.0	106	75-125				
Cobalt	49.6	0.360	"	45.1	7.47	93.4	75-125				
Copper	48.0	1.80	"	22.5	22.8	112	75-125				
Iron	60900	22.5	"	90.2	15000	NR	75-125	High Bias			
Lead	76.7	0.451	"	45.1	61.4	33.8	75-125	Low Bias			
Magnesium	2040	4.51	"	90.2	2630	NR	75-125	Low Bias			
Manganese	321	0.451	"	45.1	239	181	75-125	High Bias			
Nickel	69.6	0.898	"	45.1	17.7	115	75-125				
Potassium	1140	4.51	"	90.2	1120	19.1	75-125	Low Bias			
Selenium	156	2.25	"	180	ND	86.4	75-125				
Silver	4.21	0.454	"	4.51	ND	93.4	75-125				
Sodium	354	45.1	"	90.2	161	215	75-125	High Bias			
Thallium	163	1.81	"	180	ND	90.4	75-125				
Vanadium	77.1	0.898	"	45.1	26.5	112	75-125				
Zinc	93.1	2.24	"	45.1	57.1	79.8	75-125				
Post Spike (BC50897-PS1) Post Spike *Source sample: 25C0496-11 (SB33_0-2)								Prepared: 03/12/2025 Analyzed: 03/13/2025			
Aluminum	110		ug/mL	2.00	109	60.9	75-125	Low Bias			
Antimony	0.243		"	0.250	-0.003	97.1	75-125				
Arsenic	1.93		"	2.00	0.039	94.4	75-125				
Barium	2.72		"	2.00	0.779	97.0	75-125				
Beryllium	0.053		"	0.0500	0.005	96.3	75-125				
Cadmium	0.048		"	0.0500	0.002	92.6	75-125				
Calcium	27.7		"	1.00	27.1	66.6	75-125	Low Bias			
Chromium	0.398		"	0.200	0.211	93.7	75-125				
Cobalt	0.559		"	0.500	0.083	95.2	75-125				
Copper	0.506		"	0.250	0.252	102	75-125				
Iron	167		"	1.00	167	NR	75-125	Low Bias			
Lead	1.14		"	0.500	0.681	91.1	75-125				
Magnesium	29.8		"	1.00	29.1	65.5	75-125	Low Bias			
Manganese	3.10		"	0.500	2.65	89.4	75-125				
Nickel	0.673		"	0.500	0.197	95.3	75-125				
Potassium	13.2		"	1.00	12.4	76.2	75-125				
Selenium	1.86		"	2.00	0.001	93.1	75-125				
Silver	0.050		"	0.0500	0.0005	98.6	75-125				
Sodium	2.72		"	1.00	1.78	94.0	75-125				
Thallium	1.83		"	2.00	-0.003	91.3	75-125				
Vanadium	0.766		"	0.500	0.294	94.6	75-125				
Zinc	1.09		"	0.500	0.633	91.1	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50897 - EPA 3050B											
Reference (BC50897-SRM1) Reference									Prepared: 03/12/2025 Analyzed: 03/13/2025		
Aluminum	8130	4.17	mg/kg wet	7680		106	47.4-130.2				
Antimony	52.8	2.08	"	201		26.3	0-100				
Arsenic	140	1.25	"	181		77.2	66.3-98				
Barium	194	2.08	"	211		91.9	73.9-107.1				
Beryllium	235	0.042	"	270		87.1	73-104.4				
Cadmium	183	0.250	"	221		83.0	70.6-101.8				
Calcium	3960	4.17	"	4280		92.4	77.3-111				
Chromium	129	0.417	"	149		86.6	71.8-105.4				
Cobalt	127	0.333	"	142		89.5	73.2-104.2				
Copper	248	1.67	"	264		93.8	73.5-104.2				
Iron	6730	20.8	"	7360		91.4	55.4-130.3				
Lead	92.1	0.417	"	106		86.9	76.1-109.4				
Magnesium	2050	4.17	"	2170		94.5	68.7-112				
Manganese	222	0.417	"	270		82.4	73-107.8				
Nickel	155	0.830	"	177		87.8	71.8-103.4				
Potassium	2270	4.17	"	2340		96.8	62.8-113.7				
Selenium	115	2.08	"	139		82.9	70-107.9				
Silver	53.3	0.420	"	59.9		89.0	72.8-110.7				
Sodium	281	41.7	"	306		91.9	66-113.4				
Thallium	190	1.67	"	205		92.7	71.7-106.8				
Vanadium	134	0.830	"	155		86.6	69-107.7				
Zinc	327	2.08	"	389		84.1	70.4-106.9				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50858 - EPA 3015A											
Blank (BC50858-BLK1) Blank								Prepared & Analyzed: 03/12/2025			
Antimony	ND	1.11	ug/L								
Arsenic	ND	1.11	"								
Beryllium	ND	0.333	"								
Cadmium	ND	0.556	"								
Selenium	ND	1.11	"								
Thallium	ND	1.11	"								
LCS (BC50858-BS1) LCS								Prepared & Analyzed: 03/12/2025			
Antimony	35.8		ug/L	50.0		71.6	80-120	Low Bias			
Arsenic	47.1		"	50.0		94.3	80-120				
Beryllium	47.9		"	50.0		95.7	80-120				
Cadmium	37.1		"	50.0		74.3	80-120	Low Bias			
Selenium	46.5		"	50.0		93.1	80-120				
Thallium	43.9		"	50.0		87.7	80-120				
Duplicate (BC50858-DUP1) Duplicate *Source sample: 25C0496-01 (SOFB04_030725)								Prepared & Analyzed: 03/12/2025			
Antimony	ND	1.11	ug/L		ND					20	
Arsenic	ND	1.11	"		ND					20	
Beryllium	ND	0.333	"		ND					20	
Cadmium	ND	0.556	"		ND					20	
Selenium	3.40	1.11	"		1.75				64.0	20	Non-dir.
Thallium	ND	1.11	"		ND					20	
Matrix Spike (BC50858-MS1) Matrix Spike *Source sample: 25C0496-01 (SOFB04_030725)								Prepared & Analyzed: 03/12/2025			
Antimony	45.7		ug/L	50.0	-0.607	91.5	75-125				
Arsenic	45.1		"	50.0	0.144	89.9	75-125				
Beryllium	48.6		"	50.0	0.0008	97.1	75-125				
Cadmium	47.6		"	50.0	0.030	95.2	75-125				
Selenium	41.8		"	50.0	1.58	80.4	75-125				
Thallium	43.6		"	50.0	-0.058	87.2	75-125				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50807 - EPA 7473 soil												
Blank (BC50807-BLK1)	Blank								Prepared: 03/11/2025 Analyzed: 03/12/2025			
Mercury		ND	0.0300	mg/kg wet								
Duplicate (BC50807-DUP1)	Duplicate	*Source sample: 25C0496-11 (SB33_0-2)							Prepared: 03/11/2025 Analyzed: 03/12/2025			
Mercury		0.0907	0.0325	mg/kg dry		0.0703				25.3	35	
Matrix Spike (BC50807-MS1)	Matrix Spike	*Source sample: 25C0496-11 (SB33_0-2)							Prepared: 03/11/2025 Analyzed: 03/12/2025			
Mercury		0.524		mg/kg	1.00	0.0650	45.9	75-125	Low Bias			
Reference (BC50807-SRM1)	Reference								Prepared: 03/11/2025 Analyzed: 03/12/2025			
Mercury		19.017		mg/kg	24.0		79.2	55.8-109.6				
Batch BC50842 - EPA SW846-7470A												
Blank (BC50842-BLK1)	Blank								Prepared & Analyzed: 03/12/2025			
Mercury		ND	0.0002	mg/L								
Blank (BC50842-BLK2)	Blank								Prepared & Analyzed: 03/12/2025			
Mercury		ND	0.0002	mg/L								
LCS (BC50842-BS1)	LCS								Prepared & Analyzed: 03/12/2025			
Mercury		0.0020143	0.0002	mg/L	0.00200		101	80-120				
LCS (BC50842-BS2)	LCS								Prepared & Analyzed: 03/12/2025			
Mercury		0.0020227	0.0002	mg/L	0.00200		101	80-120				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50581 - Analysis Preparation												
Blank (BC50581-BLK1)	Blank								Prepared & Analyzed: 03/07/2025			
Chromium, Hexavalent		ND	0.0100	mg/L								
LCS (BC50581-BS1)	LCS								Prepared & Analyzed: 03/07/2025			
Chromium, Hexavalent		0.434	0.0100	mg/L	0.500		86.7	85-115				
Batch BC50788 - Analysis Preparation												
Blank (BC50788-BLK1)	Blank								Prepared & Analyzed: 03/11/2025			
Cyanide, total		ND	0.0100	mg/L								
LCS (BC50788-BS1)	LCS								Prepared & Analyzed: 03/11/2025			
Cyanide, total		0.0966	0.0100	mg/L	0.100		96.6	80-120				
Batch BC50851 - Analysis Preparation Soil												
Blank (BC50851-BLK1)	Blank								Prepared & Analyzed: 03/12/2025			
Cyanide, total		ND	0.500	mg/kg wet								
Duplicate (BC50851-DUP1)	Duplicate	*Source sample: 25C0496-11 (SB33_0-2)							Prepared & Analyzed: 03/12/2025			
Cyanide, total		ND	0.541	mg/kg dry		ND					15	
Matrix Spike (BC50851-MS1)	Matrix Spike	*Source sample: 25C0496-11 (SB33_0-2)							Prepared & Analyzed: 03/12/2025			
Cyanide, total		5.66	0.541	mg/kg dry	5.41	ND	105	79.6-107				
Matrix Spike Dup (BC50851-M	Matrix Spike Dup	*Source sample: 25C0496-11 (SB33_0-2)							Prepared & Analyzed: 03/12/2025			
Cyanide, total		5.60	0.541	mg/kg dry	5.41	ND	104	79.6-107		1.11	200	

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50851 - Analysis Preparation Soil											
Reference (BC50851-SRM1) Reference								Prepared & Analyzed: 03/12/2025			
Cyanide, total	98.6		ug/mL	111		88.8	43.5-170				
Batch BC50871 - EPA SW846-3060											
Blank (BC50871-BLK1) Blank								Prepared & Analyzed: 03/12/2025			
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Duplicate (BC50871-DUP1) Duplicate *Source sample: 25C0496-11 (SB33_0-2)								Prepared & Analyzed: 03/12/2025			
Chromium, Hexavalent	ND	0.541	mg/kg dry		ND					35	
Matrix Spike (BC50871-MS1) Matrix Spike *Source sample: 25C0496-11 (SB33_0-2)								Prepared & Analyzed: 03/12/2025			
Chromium, Hexavalent	ND	0.541	mg/kg dry	21.6	ND		75-125	Low Bias			
Matrix Spike Dup (BC50871-M Matrix Spike Dup *Source sample: 25C0496-11 (SB33_0-2)								Prepared & Analyzed: 03/12/2025			
Chromium, Hexavalent	ND	0.541	mg/kg dry	21.6	ND		75-125	Low Bias		200	
Reference (BC50871-SRM1) Reference								Prepared & Analyzed: 03/12/2025			
Chromium, Hexavalent	223		mg/L	227		98.2	42.3-157.7				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50777 - % Solids Prep											
Duplicate (BC50777-DUP1) Duplicate	*Source sample: 25C0496-11 (SB33_0-2)							Prepared & Analyzed: 03/11/2025			
% Solids	93.7	0.100	%		92.4				1.37	20	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
25C0496-01	SOFB04_030725	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
25C0496-03	SB29_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0496-04	SB29_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0496-05	SB30_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0496-06	SB30_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0496-07	SB31_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0496-08	SB31_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0496-09	SB32_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0496-10	SB32_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0496-11	SB33_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0496-12	SB33_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0496-13	SB34_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0496-14	SB34_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0496-15	SOTB04_030725	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
PF-CCV-L	The CCV recovery for this PFAS compound was below control limits.
S-HI	Surrogate recovery is above acceptance limits. No target compound is detected in sample.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
S-08	The recovery of this surrogate was outside of QC limits.
S-GC	Two surrogates are used for this analysis. One surrogate recovered within control limits therefore the analysis is acceptable.
P	This qualifier indicates the compound detected exhibited greater than 40% between the quantitation and confirmatory columns.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference

Wet — The data has been reported on an as-received (wet weight) basis

Low Bias — Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This legal document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 2161 Whitesville Rd Toms River, NJ 08755 clientservices@yorklab.com 800-306-YORK

YORK Project Number: 25C0496

Page 1 of 1

Report To:
Company: Langan
Address: 360 West 31st Ave, 8th Fl NY, NY 10001
Phone: 212-479-5400
Contact: Lexi Haley
E-mail: LHaley@langan.com

Invoice To:
Company:
Address:
Phone:
Contact:
E-mail:

YOUR Project Name / Number: Proposed Bally Casino - Ring Road at Ferry Point Park 170778001

PO Number:

Samples Collected From: NY [X] NJ [ ] CT [ ] PA [ ] Other: (please specify)

Turn-Around Time: RUSH - Next Day; RUSH - Two Day; RUSH - Three Day; RUSH - Four Day; RUSH - Five Day; Standard (6-9 Day) [X]; PFAS Standard 7-10 Day

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Savannah Walters

Matrix Codes: (S) - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Preservative (please list number of containers)

Analyses Requested

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other: DI Water	Part 375 VOCs	Part 375 SVOCs, PCBs, Pest	Hexa, TAL Metals (incl Hg)	tri chrom & total cyanide	1,4-dioxane	PFAS	Grab or Comp. G/C
SOFB04_030725	3/7/25	0746	AQ	8	3		1							X	X	X	X	X		
SOFB04_PFAS_030725		0754	AQ	2															X	
SB29_0-2		1014	S	3		1							2	X	X	X	X	X		
SB29_5-7		1020																		
SB30_0-2		1051																		
SB30_5-7		1059																		
SB31_0-2*		1127																	X	
SB31_5-7		1140																		
SB32_0-2		1421																		
SB32_5-7		1428																		
SB33_0-2 (MS/MSD)		1505		9		3							6							
SB33_5-7		1512		3		1							2							
SB34_0-2*		1540																	X	
SB34_5-7		1546																		
SOTB04_030725		—	AQ		2									X						

Report Type (circle): ~~QA Report~~; ~~Summary (Results Only)~~; NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): ~~EQuIS (standard)~~; NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered
Lab Filtered

Comments: please cc: datamanagement@langan.com areach@langan.com & swalters@langan.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N; Containers Intact: Y / N; COC/Labels Agree: Y / N; Preservation Confirmed: Y / N
COC Complete: Y / N; COC Received: Y / N; Appropriate Sample Volumes: Y / N; Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N; Samples Submitted within Holding Times: Y / N; Corrective Action Form Required: Y / N

Relinquished by / Company	Date/Time	Received by / Company	Date/Time	Relinquished by / Company	Date/Time
1. Savannah Walters (Langan)	3/7/25 16:14	1. [signature]	3-7-25 16:14	2. [signature]	3-7-25 16:14
2. A. Husain	3/7/25 16:14	3. A. Husain	3/7/25 21:00	3.	
4.		4.		Samples Received in LAB by: NC	3/7/25 21:00

Temperature: 2.8 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Report Date: 03/18/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0574

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/18/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0574

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 10, 2025 and listed below. The project was identified as your project: **170773001**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25C0574-01	SB35_0-2	Soil	03/10/2025	03/10/2025
25C0574-02	SB35_5-7	Soil	03/10/2025	03/10/2025
25C0574-03	SB36_0-2	Soil	03/10/2025	03/10/2025
25C0574-04	SB36_5-7	Soil	03/10/2025	03/10/2025
25C0574-05	SB37_0-2	Soil	03/10/2025	03/10/2025
25C0574-06	SB37_5-7	Soil	03/10/2025	03/10/2025
25C0574-07	SB38_0-2	Soil	03/10/2025	03/10/2025
25C0574-08	SB38_5-7	Soil	03/10/2025	03/10/2025

General Notes for York Project (SDG) No.: 25C0574

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By **Date:** 03/18/2025

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: SB35_0-2 **York Sample ID:** 25C0574-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:40 am	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.049	0.097	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB35_0-2 **York Sample ID:** 25C0574-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:40 am	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.0073**	ICVE, J	mg/kg dry	0.0049	0.0097	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0049	0.0097	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB35_0-2 **York Sample ID:** 25C0574-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:40 am	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND	QL-02	mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0049	0.0097	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0049	0.0097	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND	QL-02	mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	QL-02	mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB35_0-2** **York Sample ID:** **25C0574-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:40 am	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0073	0.015	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:02	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*95.3 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0941	0.188	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB35_0-2 **York Sample ID:** 25C0574-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:40 am	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0941	0.188	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND	CCVE	mg/kg dry	0.188	0.377	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.188	0.377	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.145**		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB35_0-2** **York Sample ID:** **25C0574-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:40 am	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.152**		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.203**		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.113**	CCVE	mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.0760**	CCVE, J	mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND	CCVE	mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.138**		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0941	0.188	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.259**		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB35_0-2** **York Sample ID:** **25C0574-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:40 am	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E, CCVE	mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.104**		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.117**		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.235**	CCVE	mg/kg dry	0.0472	0.0941	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.188	0.377	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*67.8 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*64.5 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*67.9 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*67.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*79.5 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*65.1 %*	*24-116*

Sample Information

Client Sample ID: SB35_0-2 **York Sample ID:** 25C0574-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:40 am	03/10/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.5	1	EPA 8270D SIM	03/16/2025 07:35	03/17/2025 15:06	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*102 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00186	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00186	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00186	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00186	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00186	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00186	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00186	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00186	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00186	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00186	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00186	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00186	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00186	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00186	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00186	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00186	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB35_0-2 **York Sample ID:** 25C0574-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:40 am	03/10/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00186	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00186	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00186	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00186	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.186	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0372	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:10	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*67.4 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*82.4 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0188	1	EPA 8082A	03/14/2025 09:11	03/14/2025 23:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0188	1	EPA 8082A	03/14/2025 09:11	03/14/2025 23:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0188	1	EPA 8082A	03/14/2025 09:11	03/14/2025 23:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0188	1	EPA 8082A	03/14/2025 09:11	03/14/2025 23:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0188	1	EPA 8082A	03/14/2025 09:11	03/14/2025 23:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0188	1	EPA 8082A	03/14/2025 09:11	03/14/2025 23:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0188	1	EPA 8082A	03/14/2025 09:11	03/14/2025 23:07	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0188	1	EPA 8082A	03/14/2025 09:11	03/14/2025 23:07	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*58.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*51.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB35_0-2** **York Sample ID:** **25C0574-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:40 am	03/10/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0224	1	EPA 8151A	03/17/2025 07:41	03/17/2025 14:38	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0224	1	EPA 8151A	03/17/2025 07:41	03/17/2025 14:38	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0224	1	EPA 8151A	03/17/2025 07:41	03/17/2025 14:38	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*101 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8260**		mg/kg dry	4.75	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.37	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**4.63**		mg/kg dry	1.42	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**77.5**		mg/kg dry	2.37	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.355**		mg/kg dry	0.048	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.285	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**3310**		mg/kg dry	4.75	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**20.5**		mg/kg dry	0.475	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**7.27**		mg/kg dry	0.380	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**41.2**		mg/kg dry	1.90	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**15500**		mg/kg dry	23.7	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**97.0**		mg/kg dry	0.475	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**2650**		mg/kg dry	4.75	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**515**		mg/kg dry	0.475	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**20.1**		mg/kg dry	0.946	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB35_0-2** **York Sample ID:** **25C0574-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:40 am	03/10/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**915**		mg/kg dry	4.75	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.37	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.479	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**92.3**		mg/kg dry	47.5	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.90	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**23.2**		mg/kg dry	0.946	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**135**		mg/kg dry	2.37	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:58	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.264**		mg/kg dry	0.0342	1	EPA 7473	03/12/2025 12:51	03/14/2025 13:26	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.570	1	EPA 7196A	03/12/2025 09:28	03/12/2025 14:30	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**20.5**		mg/kg	0.500	1	Calculation	03/14/2025 14:48	03/14/2025 14:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.570	1	EPA 9014/9010C	03/14/2025 08:24	03/14/2025 14:12	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB35_0-2** **York Sample ID:** **25C0574-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:40 am	03/10/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**87.7**		%	0.100	1	SM 2540G	03/11/2025 10:09	03/11/2025 12:30	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB35_5-7 **York Sample ID:** 25C0574-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:48 am	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.035	0.069	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB35_5-7 **York Sample ID:** 25C0574-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:48 am	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.0075**	ICVE	mg/kg dry	0.0035	0.0069	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0035	0.0069	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB35_5-7 **York Sample ID:** 25C0574-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:48 am	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND	QL-02	mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0035	0.0069	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0035	0.0069	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND	QL-02	mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	QL-02	mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB35_5-7 **York Sample ID:** 25C0574-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:48 am	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0017	0.0035	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0052	0.010	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:27	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*108 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*95.7 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0911	0.182	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0911	0.182	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0911	0.182	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB35_5-7 **York Sample ID:** 25C0574-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:48 am	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0911	0.182	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0911	0.182	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0911	0.182	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0911	0.182	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0911	0.182	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.0641**	J	mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND	CCVE	mg/kg dry	0.182	0.365	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.0742**	J	mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.182	0.365	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.199**		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB35_5-7** **York Sample ID:** **25C0574-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:48 am	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.202**		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.258**		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.122**	CCVE	mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.0837**	CCVE, J	mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND	CCVE	mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0911	0.182	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.188**		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0911	0.182	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.375**		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB35_5-7 **York Sample ID:** 25C0574-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:48 am	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E, CCVE	mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.128**		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.228**		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.337**	CCVE	mg/kg dry	0.0456	0.0911	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.182	0.365	2	EPA 8270E	03/16/2025 07:33	03/17/2025 16:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*65.6 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*65.9 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*69.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*67.7 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*89.7 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*79.5 %*	*24-116*

Sample Information

Client Sample ID: SB35_5-7 **York Sample ID:** 25C0574-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:48 am	03/10/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.5	1	EPA 8270D SIM	03/16/2025 07:35	03/17/2025 17:21	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*102 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00180	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00180	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00180	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00180	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00180	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00180	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00180	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00180	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00180	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00180	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00180	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00180	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00180	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB35_5-7 **York Sample ID:** 25C0574-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:48 am	03/10/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00180	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00180	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00180	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00180	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.180	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0360	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:27	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*69.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*74.5 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0182	1	EPA 8082A	03/14/2025 09:11	03/14/2025 23:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0182	1	EPA 8082A	03/14/2025 09:11	03/14/2025 23:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0182	1	EPA 8082A	03/14/2025 09:11	03/14/2025 23:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0182	1	EPA 8082A	03/14/2025 09:11	03/14/2025 23:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0182	1	EPA 8082A	03/14/2025 09:11	03/14/2025 23:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0182	1	EPA 8082A	03/14/2025 09:11	03/14/2025 23:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0182	1	EPA 8082A	03/14/2025 09:11	03/14/2025 23:21	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0182	1	EPA 8082A	03/14/2025 09:11	03/14/2025 23:21	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*60.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*58.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB35_5-7** **York Sample ID:** **25C0574-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:48 am	03/10/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0217	1	EPA 8151A	03/17/2025 07:41	03/17/2025 14:45	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0217	1	EPA 8151A	03/17/2025 07:41	03/17/2025 14:45	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0217	1	EPA 8151A	03/17/2025 07:41	03/17/2025 14:45	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*97.6 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**10300**		mg/kg dry	4.59	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.30	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.94**		mg/kg dry	1.38	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**83.5**		mg/kg dry	2.29	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.386**		mg/kg dry	0.046	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.276	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**3140**		mg/kg dry	4.60	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**21.1**		mg/kg dry	0.460	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**7.69**		mg/kg dry	0.367	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**25.6**		mg/kg dry	1.84	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**15800**		mg/kg dry	23.0	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**66.7**		mg/kg dry	0.460	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3250**		mg/kg dry	4.60	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**323**		mg/kg dry	0.460	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**19.5**		mg/kg dry	0.915	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB35_5-7** **York Sample ID:** **25C0574-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:48 am	03/10/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1560**		mg/kg dry	4.60	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.30	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.463	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**165**		mg/kg dry	46.0	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.84	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**33.7**		mg/kg dry	0.915	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**67.3**		mg/kg dry	2.29	1	EPA 6010D	03/13/2025 14:38	03/14/2025 10:59	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.508**		mg/kg dry	0.0331	1	EPA 7473	03/12/2025 12:51	03/14/2025 13:26	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.551	1	EPA 7196A	03/12/2025 09:28	03/12/2025 14:30	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**21.1**		mg/kg	0.500	1	Calculation	03/14/2025 14:48	03/14/2025 14:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.551	1	EPA 9014/9010C	03/14/2025 08:24	03/14/2025 14:12	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB35_5-7** **York Sample ID:** **25C0574-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 10:48 am	03/10/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.7**		%	0.100	1	SM 2540G	03/11/2025 10:09	03/11/2025 12:30	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB36_0-2 **York Sample ID:** 25C0574-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:41 am	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.063	0.13	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB36_0-2 **York Sample ID:** 25C0574-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:41 am	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0063	0.013	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0063	0.013	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB36_0-2 **York Sample ID:** 25C0574-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:41 am	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND	QL-02	mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0063	0.013	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0063	0.013	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND	QL-02	mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	QL-02	mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB36_0-2 **York Sample ID:** 25C0574-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:41 am	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0095	0.019	1	EPA 8260D	03/11/2025 10:00	03/11/2025 19:52	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*95.6 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0936	0.187	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0936	0.187	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0936	0.187	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB36_0-2 **York Sample ID:** 25C0574-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:41 am	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0936	0.187	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0936	0.187	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0936	0.187	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0936	0.187	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0936	0.187	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.0636**	J	mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND	CCVE	mg/kg dry	0.187	0.375	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.0636**	J	mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.187	0.375	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.192**		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB36_0-2** **York Sample ID:** **25C0574-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:41 am	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.209**		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.286**		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.141**	CCVE	mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.0980**	CCVE	mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	**Benzoic acid**	**0.0471**	J	mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND	CCVE	mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0936	0.187	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.184**		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0936	0.187	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.304**		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB36_0-2 **York Sample ID:** 25C0574-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:41 am	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E, CCVE	mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.149**		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.114**		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.297**	CCVE	mg/kg dry	0.0469	0.0936	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.187	0.375	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*59.6 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*58.2 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*58.5 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*59.1 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*73.3 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*62.2 %*	*24-116*

Sample Information

Client Sample ID: **SB36_0-2** **York Sample ID:** **25C0574-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:41 am	03/10/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.5	1	EPA 8270D SIM	03/16/2025 07:35	03/17/2025 17:36	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*106 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	**4,4'-DDT**	**0.00418**		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	**alpha-Chlordane**	**0.00277**		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	**Dieldrin**	**0.00259**		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB36_0-2 **York Sample ID:** 25C0574-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:41 am	03/10/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	**gamma-Chlordane**	**0.00302**		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications: NELAC-NY10854,NJDEP-CT005			
76-44-8	Heptachlor	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-43-5	Methoxychlor	ND		mg/kg dry	0.00185	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
8001-35-2	Toxaphene	ND		mg/kg dry	0.185	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0370	5	EPA 8081B	03/14/2025 09:15	03/15/2025 00:44	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*67.4 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*84.3 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0187	1	EPA 8082A	03/14/2025 09:11	03/15/2025 00:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0187	1	EPA 8082A	03/14/2025 09:11	03/15/2025 00:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0187	1	EPA 8082A	03/14/2025 09:11	03/15/2025 00:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0187	1	EPA 8082A	03/14/2025 09:11	03/15/2025 00:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0187	1	EPA 8082A	03/14/2025 09:11	03/15/2025 00:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0187	1	EPA 8082A	03/14/2025 09:11	03/15/2025 00:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0187	1	EPA 8082A	03/14/2025 09:11	03/15/2025 00:02	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0187	1	EPA 8082A	03/14/2025 09:11	03/15/2025 00:02	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*56.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*53.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB36_0-2** **York Sample ID:** **25C0574-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:41 am	03/10/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0223	1	EPA 8151A	03/17/2025 07:41	03/17/2025 14:52	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0223	1	EPA 8151A	03/17/2025 07:41	03/17/2025 14:52	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0223	1	EPA 8151A	03/17/2025 07:41	03/17/2025 14:52	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*74.8 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9010**		mg/kg dry	4.72	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.36	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**4.06**		mg/kg dry	1.42	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**91.5**		mg/kg dry	2.36	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.329**		mg/kg dry	0.048	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.321**		mg/kg dry	0.283	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**5610**		mg/kg dry	4.72	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**23.4**		mg/kg dry	0.472	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**7.72**		mg/kg dry	0.377	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**27.2**		mg/kg dry	1.89	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**15200**		mg/kg dry	23.6	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**76.6**		mg/kg dry	0.472	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3630**		mg/kg dry	4.72	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**251**		mg/kg dry	0.472	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**16.9**		mg/kg dry	0.940	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB36_0-2** **York Sample ID:** **25C0574-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:41 am	03/10/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1780**		mg/kg dry	4.72	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.36	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.476	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**98.5**		mg/kg dry	47.2	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.89	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**25.7**		mg/kg dry	0.940	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**155**		mg/kg dry	2.35	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.174**		mg/kg dry	0.0340	1	EPA 7473	03/12/2025 12:51	03/14/2025 13:26	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.566	1	EPA 7196A	03/12/2025 09:28	03/12/2025 14:30	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**23.4**		mg/kg	0.500	1	Calculation	03/14/2025 14:48	03/14/2025 14:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.566	1	EPA 9014/9010C	03/14/2025 08:24	03/14/2025 14:12	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB36_0-2** **York Sample ID:** **25C0574-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:41 am	03/10/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**88.3**		%	0.100	1	SM 2540G	03/11/2025 10:09	03/11/2025 12:30	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: SB36_5-7 **York Sample ID:** 25C0574-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:49 am	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.049	0.097	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB36_5-7 **York Sample ID:** 25C0574-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:49 am	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.011**	ICVE	mg/kg dry	0.0049	0.0097	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0049	0.0097	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB36_5-7 **York Sample ID:** 25C0574-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:49 am	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND	QL-02	mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0049	0.0097	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0049	0.0097	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND	QL-02	mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	QL-02	mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB36_5-7 **York Sample ID:** 25C0574-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:49 am	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0073	0.015	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:17	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.3 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*101 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0896	0.179	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0896	0.179	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0896	0.179	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB36_5-7 **York Sample ID:** 25C0574-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:49 am	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0896	0.179	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0896	0.179	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0896	0.179	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0896	0.179	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0896	0.179	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND	CCVE	mg/kg dry	0.179	0.359	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.179	0.359	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.0466**	J	mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB36_5-7 **York Sample ID:** 25C0574-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:49 am	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.0480**	J	mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND	CCVE	mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND	CCVE	mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND	CCVE	mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0896	0.179	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0896	0.179	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.0745**	J	mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB36_5-7** **York Sample ID:** **25C0574-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:49 am	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E, CCVE	mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	Phenanthrene	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.0709**	CCVE, J	mg/kg dry	0.0449	0.0896	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.179	0.359	2	EPA 8270E	03/16/2025 07:33	03/17/2025 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*65.7 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*66.8 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*68.1 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*65.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*87.5 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*74.2 %*	*24-116*

Sample Information

Client Sample ID: SB36_5-7 **York Sample ID:** 25C0574-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:49 am	03/10/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.5	1	EPA 8270D SIM	03/16/2025 07:35	03/17/2025 17:51	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*112 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00176	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00176	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00176	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00176	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00176	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00176	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00176	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00176	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00176	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00176	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00176	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00176	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00176	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB36_5-7 **York Sample ID:** 25C0574-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:49 am	03/10/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00176	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00176	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00176	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00176	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.176	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0351	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:32	SCB
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*79.8 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*84.4 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0177	1	EPA 8082A	03/15/2025 07:35	03/16/2025 18:36	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0177	1	EPA 8082A	03/15/2025 07:35	03/16/2025 18:36	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0177	1	EPA 8082A	03/15/2025 07:35	03/16/2025 18:36	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0177	1	EPA 8082A	03/15/2025 07:35	03/16/2025 18:36	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0177	1	EPA 8082A	03/15/2025 07:35	03/16/2025 18:36	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0177	1	EPA 8082A	03/15/2025 07:35	03/16/2025 18:36	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0177	1	EPA 8082A	03/15/2025 07:35	03/16/2025 18:36	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0177	1	EPA 8082A	03/15/2025 07:35	03/16/2025 18:36	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*81.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*70.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SB36_5-7 **York Sample ID:** 25C0574-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:49 am	03/10/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0214	1	EPA 8151A	03/17/2025 07:41	03/17/2025 14:59	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0214	1	EPA 8151A	03/17/2025 07:41	03/17/2025 14:59	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0214	1	EPA 8151A	03/17/2025 07:41	03/17/2025 14:59	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*120 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**14300**		mg/kg dry	4.52	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.26	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.37**		mg/kg dry	1.36	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**67.3**		mg/kg dry	2.26	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.466**		mg/kg dry	0.046	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.271	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1440**		mg/kg dry	4.52	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**31.2**		mg/kg dry	0.453	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**10.9**		mg/kg dry	0.361	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**18.9**		mg/kg dry	1.81	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**19000**		mg/kg dry	22.6	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**36.3**		mg/kg dry	0.453	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**2810**		mg/kg dry	4.53	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**310**		mg/kg dry	0.453	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**20.6**		mg/kg dry	0.901	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB36_5-7** **York Sample ID:** **25C0574-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:49 am	03/10/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1210**		mg/kg dry	4.53	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.26	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.456	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**103**		mg/kg dry	45.2	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.81	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**35.0**		mg/kg dry	0.901	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**38.6**		mg/kg dry	2.25	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0568**		mg/kg dry	0.0326	1	EPA 7473	03/12/2025 12:51	03/14/2025 13:26	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.543	1	EPA 7196A	03/13/2025 09:50	03/13/2025 16:25	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**31.2**		mg/kg	0.500	1	Calculation	03/14/2025 14:48	03/14/2025 14:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.543	1	EPA 9014/9010C	03/14/2025 08:24	03/14/2025 14:12	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB36_5-7** **York Sample ID:** **25C0574-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 11:49 am	03/10/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**92.1**		%	0.100	1	SM 2540G	03/11/2025 10:09	03/11/2025 12:30	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB37_0-2** **York Sample ID:** **25C0574-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:17 pm	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.047	0.093	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.0059**		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB37_0-2 **York Sample ID:** 25C0574-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:17 pm	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.016**	ICVE	mg/kg dry	0.0047	0.0093	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0047	0.0093	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB37_0-2 **York Sample ID:** 25C0574-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:17 pm	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND	QL-02	mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0047	0.0093	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0047	0.0093	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND	QL-02	mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	QL-02	mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB37_0-2** **York Sample ID:** **25C0574-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:17 pm	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0070	0.014	1	EPA 8260D	03/11/2025 10:00	03/11/2025 20:43	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.0 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0902	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0902	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0902	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	**2-Methylnaphthalene**	**0.0894**	J	mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB37_0-2 **York Sample ID:** 25C0574-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:17 pm	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0902	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0902	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0902	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0902	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0902	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	**Acenaphthene**	**0.0577**	J	mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND	CCVE	mg/kg dry	0.181	0.361	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.0599**	J	mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.181	0.361	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.0930**		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB37_0-2 **York Sample ID:** 25C0574-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:17 pm	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.0649**	J	mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.0851**	J	mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND	CCVE	mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND	CCVE	mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	**Benzyl butyl phthalate**	**0.0476**	J	mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND	CCVE	mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.0462**	J	mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0902	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.0837**	J	mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	**Dibenzofuran**	**0.0591**	J	mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0902	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.216**		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB37_0-2** **York Sample ID:** **25C0574-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:17 pm	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	**Fluorene**	**0.0628**	J	mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E, CCVE	mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.102**		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.256**		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.170**	CCVE	mg/kg dry	0.0452	0.0902	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.181	0.361	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:12	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*69.9 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*68.7 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*69.9 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*70.3 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*87.9 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*73.7 %*	*24-116*

Sample Information

Client Sample ID: **SB37_0-2** **York Sample ID:** **25C0574-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:17 pm	03/10/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.5	1	EPA 8270D SIM	03/16/2025 07:35	03/18/2025 10:03	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*90.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00177	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00177	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00177	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00177	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00177	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00177	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00177	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00177	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00177	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00177	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00177	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00177	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00177	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB37_0-2 **York Sample ID:** 25C0574-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:17 pm	03/10/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00177	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00177	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00177	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00177	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.177	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0354	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:45	SCB
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*77.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*75.5 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0178	1	EPA 8082A	03/15/2025 07:35	03/16/2025 18:50	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0178	1	EPA 8082A	03/15/2025 07:35	03/16/2025 18:50	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0178	1	EPA 8082A	03/15/2025 07:35	03/16/2025 18:50	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0178	1	EPA 8082A	03/15/2025 07:35	03/16/2025 18:50	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0178	1	EPA 8082A	03/15/2025 07:35	03/16/2025 18:50	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0178	1	EPA 8082A	03/15/2025 07:35	03/16/2025 18:50	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0178	1	EPA 8082A	03/15/2025 07:35	03/16/2025 18:50	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0178	1	EPA 8082A	03/15/2025 07:35	03/16/2025 18:50	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*77.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*68.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SB37_0-2 **York Sample ID:** 25C0574-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:17 pm	03/10/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0215	1	EPA 8151A	03/17/2025 07:41	03/17/2025 15:07	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0215	1	EPA 8151A	03/17/2025 07:41	03/17/2025 15:07	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0215	1	EPA 8151A	03/17/2025 07:41	03/17/2025 15:07	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*80.2 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9760**		mg/kg dry	4.55	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.28	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.55**		mg/kg dry	1.37	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**58.2**		mg/kg dry	2.27	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.447**		mg/kg dry	0.046	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.273	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1620**		mg/kg dry	4.55	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**25.8**		mg/kg dry	0.456	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**9.15**		mg/kg dry	0.364	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**17.7**		mg/kg dry	1.82	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**17600**		mg/kg dry	22.8	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**13.9**		mg/kg dry	0.456	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**2700**		mg/kg dry	4.56	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**444**		mg/kg dry	0.456	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**18.5**		mg/kg dry	0.907	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB37_0-2** **York Sample ID:** **25C0574-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:17 pm	03/10/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1470**		mg/kg dry	4.56	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.28	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.459	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**64.2**		mg/kg dry	45.5	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.82	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**26.8**		mg/kg dry	0.907	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**37.2**		mg/kg dry	2.27	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:06	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0328	1	EPA 7473	03/12/2025 12:51	03/14/2025 13:26	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.546	1	EPA 7196A	03/13/2025 09:50	03/13/2025 16:25	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**25.8**		mg/kg	0.500	1	Calculation	03/14/2025 14:48	03/14/2025 14:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.546	1	EPA 9014/9010C	03/14/2025 08:24	03/14/2025 14:12	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB37_0-2** **York Sample ID:** **25C0574-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:17 pm	03/10/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.5**		%	0.100	1	SM 2540G	03/11/2025 10:09	03/11/2025 12:30	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB37_5-7** **York Sample ID:** **25C0574-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:24 pm	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.053	0.11	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.0061**		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB37_5-7 **York Sample ID:** 25C0574-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:24 pm	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.024**	ICVE	mg/kg dry	0.0053	0.011	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0053	0.011	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB37_5-7 **York Sample ID:** 25C0574-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:24 pm	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND	QL-02	mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0053	0.011	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0053	0.011	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND	QL-02	mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	QL-02	mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB37_5-7 **York Sample ID:** 25C0574-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:24 pm	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0027	0.0053	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0080	0.016	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:08	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.5 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0901	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0901	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0901	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB37_5-7 **York Sample ID:** 25C0574-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:24 pm	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0901	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0901	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0901	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0901	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0901	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND	CCVE	mg/kg dry	0.180	0.361	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.180	0.361	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.0900**	J	mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB37_5-7 **York Sample ID:** 25C0574-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:24 pm	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.0771**	J	mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.107**		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.0562**	J, CCVE	mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND	CCVE	mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND	CCVE	mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0901	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.0799**	J	mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0901	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.171**		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB37_5-7 **York Sample ID:** 25C0574-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:24 pm	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, CAL-E	mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.0533**	J	mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.112**		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.150**	CCVE	mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.180	0.361	2	EPA 8270E	03/16/2025 07:33	03/17/2025 18:43	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*64.0 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*66.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*66.9 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*64.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*86.5 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*72.6 %*	*24-116*

Sample Information

Client Sample ID: SB37_5-7 **York Sample ID:** 25C0574-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:24 pm	03/10/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.5	1	EPA 8270D SIM	03/16/2025 07:35	03/18/2025 10:18	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*96.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00181	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00181	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00181	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00181	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00181	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00181	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00181	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00181	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00181	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00181	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00181	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00181	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00181	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00181	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00181	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00181	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB37_5-7 **York Sample ID:** 25C0574-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:24 pm	03/10/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00181	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00181	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00181	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00181	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.181	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0361	5	EPA 8081B	03/15/2025 07:37	03/16/2025 13:58	SCB
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*70.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*74.1 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0182	1	EPA 8082A	03/15/2025 07:35	03/16/2025 19:04	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0182	1	EPA 8082A	03/15/2025 07:35	03/16/2025 19:04	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0182	1	EPA 8082A	03/15/2025 07:35	03/16/2025 19:04	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0182	1	EPA 8082A	03/15/2025 07:35	03/16/2025 19:04	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0182	1	EPA 8082A	03/15/2025 07:35	03/16/2025 19:04	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0182	1	EPA 8082A	03/15/2025 07:35	03/16/2025 19:04	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0182	1	EPA 8082A	03/15/2025 07:35	03/16/2025 19:04	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0182	1	EPA 8082A	03/15/2025 07:35	03/16/2025 19:04	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*68.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*58.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SB37_5-7 **York Sample ID:** 25C0574-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:24 pm	03/10/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0216	1	EPA 8151A	03/17/2025 07:41	03/17/2025 15:14	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0216	1	EPA 8151A	03/17/2025 07:41	03/17/2025 15:14	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0216	1	EPA 8151A	03/17/2025 07:41	03/17/2025 15:14	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*120 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8440**		mg/kg dry	4.58	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	**Antimony**	**3.00**		mg/kg dry	2.29	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.41**		mg/kg dry	1.37	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**96.8**		mg/kg dry	2.28	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.348**		mg/kg dry	0.046	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**3.43**		mg/kg dry	0.275	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**3840**		mg/kg dry	4.58	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**22.5**		mg/kg dry	0.458	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**9.44**		mg/kg dry	0.366	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**26.3**		mg/kg dry	1.83	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**16600**		mg/kg dry	22.9	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**167**		mg/kg dry	0.458	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**2600**		mg/kg dry	4.58	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**337**		mg/kg dry	0.458	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**19.4**		mg/kg dry	0.912	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB37_5-7** **York Sample ID:** **25C0574-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:24 pm	03/10/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1280**		mg/kg dry	4.58	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.29	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.461	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**265**		mg/kg dry	45.8	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.83	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**36.3**		mg/kg dry	0.912	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**96.7**		mg/kg dry	2.28	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:07	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.272**		mg/kg dry	0.0329	1	EPA 7473	03/12/2025 12:51	03/14/2025 13:26	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.549	1	EPA 7196A	03/13/2025 09:50	03/13/2025 16:25	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**22.5**		mg/kg	0.500	1	Calculation	03/14/2025 14:48	03/14/2025 14:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.549	1	EPA 9014/9010C	03/14/2025 08:24	03/14/2025 14:12	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB37_5-7** **York Sample ID:** **25C0574-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:24 pm	03/10/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.0**		%	0.100	1	SM 2540G	03/11/2025 10:09	03/11/2025 12:30	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB38_0-2** **York Sample ID:** **25C0574-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:52 pm	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.046	0.091	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.0056**		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB38_0-2 **York Sample ID:** 25C0574-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:52 pm	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.018**	ICVE	mg/kg dry	0.0046	0.0091	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0046	0.0091	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB38_0-2 **York Sample ID:** 25C0574-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:52 pm	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND	QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0046	0.0091	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0046	0.0091	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND	QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB38_0-2 **York Sample ID:** 25C0574-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:52 pm	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0069	0.014	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:33	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*108 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.1 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0899	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0899	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0899	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB38_0-2 **York Sample ID:** 25C0574-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:52 pm	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0899	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0899	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0899	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0899	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0899	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND	CCVE	mg/kg dry	0.180	0.360	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.180	0.360	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.0855**	J	mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB38_0-2 **York Sample ID:** 25C0574-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:52 pm	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.0661**	J	mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.0920**		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.0453**	J, CCVE	mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND	CCVE	mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND	CCVE	mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0899	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.0755**	J	mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0899	0.180	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.183**		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB38_0-2 **York Sample ID:** 25C0574-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:52 pm	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E, CCVE	mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.130**		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.165**	CCVE	mg/kg dry	0.0451	0.0899	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.180	0.360	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*54.8 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*55.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*55.3 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*55.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*72.0 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*60.2 %*	*24-116*

Sample Information

Client Sample ID: SB38_0-2 **York Sample ID:** 25C0574-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:52 pm	03/10/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.5	1	EPA 8270D SIM	03/16/2025 07:35	03/17/2025 19:06	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*106 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00179	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00179	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00179	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00179	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00179	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00179	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00179	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00179	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00179	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00179	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00179	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00179	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00179	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00179	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB38_0-2 **York Sample ID:** 25C0574-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:52 pm	03/10/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	**gamma-Chlordane**	**0.00207**		mg/kg dry	0.00179	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications: NELAC-NY10854,NJDEP-CT005			
76-44-8	Heptachlor	ND		mg/kg dry	0.00179	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00179	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-43-5	Methoxychlor	ND		mg/kg dry	0.00179	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
8001-35-2	Toxaphene	ND		mg/kg dry	0.179	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0358	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:11	SCB
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*68.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.4 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0181	1	EPA 8082A	03/15/2025 07:35	03/16/2025 19:17	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0181	1	EPA 8082A	03/15/2025 07:35	03/16/2025 19:17	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0181	1	EPA 8082A	03/15/2025 07:35	03/16/2025 19:17	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0181	1	EPA 8082A	03/15/2025 07:35	03/16/2025 19:17	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0181	1	EPA 8082A	03/15/2025 07:35	03/16/2025 19:17	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0181	1	EPA 8082A	03/15/2025 07:35	03/16/2025 19:17	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0181	1	EPA 8082A	03/15/2025 07:35	03/16/2025 19:17	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0181	1	EPA 8082A	03/15/2025 07:35	03/16/2025 19:17	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*66.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*59.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB38_0-2** **York Sample ID:** **25C0574-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:52 pm	03/10/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0216	1	EPA 8151A	03/14/2025 09:04	03/16/2025 14:30	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0216	1	EPA 8151A	03/14/2025 09:04	03/16/2025 14:30	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0216	1	EPA 8151A	03/14/2025 09:04	03/16/2025 14:30	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*74.6 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**11500**		mg/kg dry	4.57	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.28	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.66**		mg/kg dry	1.37	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**73.8**		mg/kg dry	2.28	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.426**		mg/kg dry	0.046	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.274	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**8560**		mg/kg dry	4.57	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**23.2**		mg/kg dry	0.457	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**8.44**		mg/kg dry	0.365	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**23.7**		mg/kg dry	1.83	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**16500**		mg/kg dry	22.8	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**87.3**		mg/kg dry	0.457	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3850**		mg/kg dry	4.57	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**296**		mg/kg dry	0.457	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**21.6**		mg/kg dry	0.910	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB38_0-2** **York Sample ID:** **25C0574-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:52 pm	03/10/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1500**		mg/kg dry	4.57	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.28	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.460	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**110**		mg/kg dry	45.7	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.83	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**30.3**		mg/kg dry	0.910	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**69.1**		mg/kg dry	2.27	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0898**		mg/kg dry	0.0329	1	EPA 7473	03/12/2025 12:51	03/14/2025 13:26	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.548	1	EPA 7196A	03/13/2025 09:50	03/13/2025 16:25	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**23.2**		mg/kg	0.500	1	Calculation	03/14/2025 14:48	03/14/2025 14:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.548	1	EPA 9014/9010C	03/14/2025 08:24	03/14/2025 14:12	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB38_0-2** **York Sample ID:** **25C0574-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:52 pm	03/10/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.2**		%	0.100	1	SM 2540G	03/11/2025 10:09	03/11/2025 12:30	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB38_5-7** **York Sample ID:** **25C0574-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:59 pm	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.043	0.085	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.0068**		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB38_5-7 **York Sample ID:** 25C0574-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:59 pm	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	QL-02	mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.018**	ICVE	mg/kg dry	0.0043	0.0085	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0043	0.0085	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB38_5-7 **York Sample ID:** 25C0574-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:59 pm	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND	QL-02	mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0043	0.0085	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0043	0.0085	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND	QL-02	mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	QL-02	mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB38_5-7 **York Sample ID:** 25C0574-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:59 pm	03/10/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0021	0.0043	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0064	0.013	1	EPA 8260D	03/11/2025 10:00	03/11/2025 21:58	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*110 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*91.9 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0927	0.185	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0927	0.185	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0927	0.185	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB38_5-7 **York Sample ID:** 25C0574-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:59 pm	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0927	0.185	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0927	0.185	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0927	0.185	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0927	0.185	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0927	0.185	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND	CCVE	mg/kg dry	0.186	0.371	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.186	0.371	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.0497**	J	mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB38_5-7** **York Sample ID:** **25C0574-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:59 pm	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.0556**	J	mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND	CCVE	mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND	CCVE	mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND	CCVE	mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0927	0.185	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.0474**	J	mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0927	0.185	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.0890**	J	mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB38_5-7 **York Sample ID:** 25C0574-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:59 pm	03/10/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E, CCVE	mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.0474**	J	mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.0830**	J, CCVE	mg/kg dry	0.0465	0.0927	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE	mg/kg dry	0.186	0.371	2	EPA 8270E	03/16/2025 07:33	03/17/2025 19:44	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*56.0 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*54.7 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*56.1 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*55.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*71.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*60.0 %*	*24-116*

Sample Information

Client Sample ID: **SB38_5-7** **York Sample ID:** **25C0574-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:59 pm	03/10/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.5	1	EPA 8270D SIM Certifications: NELAC-NY10854	03/16/2025 07:35	03/17/2025 19:21	SS

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*102 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.124	0.197	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0590	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.117	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.199	0.204	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.191	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.186	0.207	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.210	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.213	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.220	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND	PF-CCV -L	ug/kg dry	0.181	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.139	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.115	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.165	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.216	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.121	0.445	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.162	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM

Sample Information

Client Sample ID: SB38_5-7 **York Sample ID:** 25C0574-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:59 pm	03/10/2025

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.172	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.213	0.215	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.835	0.846	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.840	0.855	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.121	0.890	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.155	0.396	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 18:48	AM
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.215	0.445	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 18:48	AM
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0690	0.445	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 18:48	AM
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.107	0.445	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 18:48	AM
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.175	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.662	0.835	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.677	0.890	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.346	0.841	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.274	0.832	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
919005-14-4	* ADONA	ND		ug/kg dry	0.194	0.841	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.188	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 18:48	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.138	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/11/2025 10:33	03/12/2025 18:48	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.705	1.11	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 18:48	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.33	5.56	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 18:48	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND	PF-CCV-L, PF-LCS-L	ug/kg dry	1.67	5.56	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 18:48	AM

Sample Information

Client Sample ID: SB38_5-7 **York Sample ID:** 25C0574-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:59 pm	03/10/2025

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.680	2.23	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 18:48	AM
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.200	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 18:48	AM
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.776	2.23	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 18:48	AM
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.220	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/11/2025 10:33	03/12/2025 18:48	AM

	Surrogate Recoveries	Result	Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*127 %*	*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*107 %*	*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*141 %*	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*124 %*	*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*118 %*	*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*112 %*	*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*120 %*	*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*103 %*	*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*81.8 %*	*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*53.4 %*	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*126 %*	*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*114 %*	*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*63.9 %*	*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*133 %*	*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*141 %*	*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*112 %*	*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*138 %*	*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*110 %*	*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*114 %*	*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*64.0 %*	*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*58.0 %*	*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*113 %*	*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*47.3 %*	*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*41.6 %*	*25-150*

Sample Information

Client Sample ID: **SB38_5-7** **York Sample ID:** **25C0574-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:59 pm	03/10/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	**4,4'-DDD**	**0.00580**		mg/kg dry	0.00185	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:25	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00185	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:25	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00185	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:25	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		mg/kg dry	0.00185	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:25	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		mg/kg dry	0.00185	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:25	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00185	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:25	SCB
							Certifications:	NELAC-NY10854,NJDEP-CT005		
319-85-7	beta-BHC	ND		mg/kg dry	0.00185	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:25	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		mg/kg dry	0.00185	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:25	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		mg/kg dry	0.00185	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:25	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		mg/kg dry	0.00185	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:25	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00185	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:25	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00185	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:25	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		mg/kg dry	0.00185	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:25	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00185	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:25	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00185	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:25	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00185	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:25	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00185	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:25	SCB
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00185	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:25	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00185	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:25	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00185	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:25	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.185	5	EPA 8081B	03/15/2025 07:37	03/16/2025 14:25	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB38_5-7 **York Sample ID:** 25C0574-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:59 pm	03/10/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0369	5	EPA 8081B Certifications:	03/15/2025 07:37	03/16/2025 14:25	SCB

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*67.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.4 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/15/2025 07:35	03/16/2025 19:31	NF
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/15/2025 07:35	03/16/2025 19:31	NF
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/15/2025 07:35	03/16/2025 19:31	NF
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/15/2025 07:35	03/16/2025 19:31	NF
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/15/2025 07:35	03/16/2025 19:31	NF
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/15/2025 07:35	03/16/2025 19:31	NF
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/15/2025 07:35	03/16/2025 19:31	NF
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0186	1	EPA 8082A Certifications:	03/15/2025 07:35	03/16/2025 19:31	NF

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*78.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*56.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0223	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/14/2025 09:04	03/16/2025 14:37	GXB
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0223	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/14/2025 09:04	03/16/2025 14:37	GXB
94-75-7	2,4-D	ND		mg/kg dry	0.0223	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/14/2025 09:04	03/16/2025 14:37	GXB

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: SB38_5-7 **York Sample ID:** 25C0574-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:59 pm	03/10/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*75.0 %*			*21-150*					

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7210**		mg/kg dry	4.71	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.35	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.03**		mg/kg dry	1.41	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**86.7**		mg/kg dry	2.35	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.294**		mg/kg dry	0.047	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.301**		mg/kg dry	0.283	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**2510**		mg/kg dry	4.71	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**18.7**		mg/kg dry	0.471	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**6.41**		mg/kg dry	0.376	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**33.8**		mg/kg dry	1.88	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**13300**		mg/kg dry	23.5	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**80.6**		mg/kg dry	0.471	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**2160**		mg/kg dry	4.71	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**272**		mg/kg dry	0.471	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**17.1**		mg/kg dry	0.938	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**1190**		mg/kg dry	4.71	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.35	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.475	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB38_5-7 **York Sample ID:** 25C0574-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:59 pm	03/10/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**123**		mg/kg dry	47.1	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.89	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**27.4**		mg/kg dry	0.938	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**86.7**		mg/kg dry	2.35	1	EPA 6010D	03/13/2025 14:38	03/14/2025 11:10	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.236**		mg/kg dry	0.0339	1	EPA 7473	03/12/2025 12:51	03/14/2025 13:26	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.565	1	EPA 7196A	03/13/2025 09:50	03/13/2025 16:25	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**18.7**		mg/kg	0.500	1	Calculation	03/14/2025 14:48	03/14/2025 14:54	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.565	1	EPA 9014/9010C	03/14/2025 08:24	03/14/2025 14:12	LJM
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **SB38_5-7** **York Sample ID:** **25C0574-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0574	170773001	Soil	March 10, 2025 12:59 pm	03/10/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**88.5**		%	0.100	1	SM 2540G	03/11/2025 10:09	03/11/2025 12:30	SMM
							Certifications:	CTDOH-PH-0723		

Analytical Batch Summary

Batch ID: BC50779 **Preparation Method:** % Solids Prep **Prepared By:** SMM

YORK Sample ID	Client Sample ID	Preparation Date
25C0574-01	SB35_0-2	03/11/25
25C0574-02	SB35_5-7	03/11/25
25C0574-03	SB36_0-2	03/11/25
25C0574-04	SB36_5-7	03/11/25
25C0574-05	SB37_0-2	03/11/25
25C0574-06	SB37_5-7	03/11/25
25C0574-07	SB38_0-2	03/11/25
25C0574-08	SB38_5-7	03/11/25

Batch ID: BC50781 **Preparation Method:** EPA 1633 Prep **Prepared By:** SAB

YORK Sample ID	Client Sample ID	Preparation Date
25C0574-08	SB38_5-7	03/11/25
BC50781-BLK1	Blank	03/11/25
BC50781-BS1	LCS	03/11/25
BC50781-BS2	LCS	03/11/25

Batch ID: BC50871 **Preparation Method:** EPA SW846-3060 **Prepared By:** JAMT

YORK Sample ID	Client Sample ID	Preparation Date
25C0574-01	SB35_0-2	03/12/25
25C0574-02	SB35_5-7	03/12/25
25C0574-03	SB36_0-2	03/12/25
BC50871-BLK1	Blank	03/12/25
BC50871-SRM1	Reference	03/12/25

Batch ID: BC50883 **Preparation Method:** EPA 7473 soil **Prepared By:** DRS

YORK Sample ID	Client Sample ID	Preparation Date
25C0574-01	SB35_0-2	03/12/25
25C0574-02	SB35_5-7	03/12/25
25C0574-03	SB36_0-2	03/12/25
25C0574-04	SB36_5-7	03/12/25
25C0574-05	SB37_0-2	03/12/25
25C0574-06	SB37_5-7	03/12/25
25C0574-07	SB38_0-2	03/12/25
25C0574-08	SB38_5-7	03/12/25
BC50883-BLK1	Blank	03/12/25
BC50883-SRM1	Reference	03/12/25

Batch ID: BC50914 **Preparation Method:** EPA 5035A **Prepared By:** AC

YORK Sample ID	Client Sample ID	Preparation Date

25C0574-01	SB35_0-2	03/11/25
25C0574-02	SB35_5-7	03/11/25
25C0574-03	SB36_0-2	03/11/25
25C0574-04	SB36_5-7	03/11/25
25C0574-05	SB37_0-2	03/11/25
25C0574-06	SB37_5-7	03/11/25
25C0574-07	SB38_0-2	03/11/25
25C0574-08	SB38_5-7	03/11/25
BC50914-BLK1	Blank	03/11/25
BC50914-BS1	LCS	03/11/25
BC50914-BSD1	LCS Dup	03/11/25

Batch ID: BC50966 **Preparation Method:** EPA SW846-3060 **Prepared By:** JAMT

YORK Sample ID	Client Sample ID	Preparation Date
25C0574-04	SB36_5-7	03/13/25
25C0574-05	SB37_0-2	03/13/25
25C0574-06	SB37_5-7	03/13/25
25C0574-07	SB38_0-2	03/13/25
25C0574-08	SB38_5-7	03/13/25
BC50966-BLK1	Blank	03/13/25
BC50966-SRM1	Reference	03/13/25

Batch ID: BC51009 **Preparation Method:** EPA 3050B **Prepared By:** KMQ

YORK Sample ID	Client Sample ID	Preparation Date
25C0574-01	SB35_0-2	03/13/25
25C0574-02	SB35_5-7	03/13/25
25C0574-03	SB36_0-2	03/13/25
25C0574-04	SB36_5-7	03/13/25
25C0574-05	SB37_0-2	03/13/25
25C0574-06	SB37_5-7	03/13/25
25C0574-07	SB38_0-2	03/13/25
25C0574-08	SB38_5-7	03/13/25
BC51009-BLK1	Blank	03/13/25
BC51009-SRM1	Reference	03/13/25

Batch ID: BC51061 **Preparation Method:** Analysis Preparation Soil **Prepared By:** LJM

YORK Sample ID	Client Sample ID	Preparation Date
25C0574-01	SB35_0-2	03/14/25
25C0574-02	SB35_5-7	03/14/25
25C0574-03	SB36_0-2	03/14/25
25C0574-04	SB36_5-7	03/14/25
25C0574-05	SB37_0-2	03/14/25
25C0574-06	SB37_5-7	03/14/25
25C0574-07	SB38_0-2	03/14/25
25C0574-08	SB38_5-7	03/14/25
BC51061-BLK1	Blank	03/14/25
BC51061-DUP1	Duplicate	03/14/25

BC51061-MS1	Matrix Spike	03/14/25
BC51061-MSD1	Matrix Spike Dup	03/14/25
BC51061-SRM1	Reference	03/14/25

Batch ID: BC51068 **Preparation Method:** EPA 3550C/8151A **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
25C0574-07	SB38_0-2	03/14/25
25C0574-08	SB38_5-7	03/14/25
BC51068-BLK1	Blank	03/14/25
BC51068-BS1	LCS	03/14/25

Batch ID: BC51071 **Preparation Method:** EPA 3550C **Prepared By:** JAA

YORK Sample ID	Client Sample ID	Preparation Date
25C0574-01	SB35_0-2	03/14/25
25C0574-02	SB35_5-7	03/14/25
25C0574-03	SB36_0-2	03/14/25
BC51071-BLK2	Blank	03/14/25
BC51071-BS2	LCS	03/14/25

Batch ID: BC51072 **Preparation Method:** EPA 3550C **Prepared By:** JAA

YORK Sample ID	Client Sample ID	Preparation Date
25C0574-01	SB35_0-2	03/14/25
25C0574-02	SB35_5-7	03/14/25
25C0574-03	SB36_0-2	03/14/25
BC51072-BLK1	Blank	03/14/25
BC51072-BS1	LCS	03/14/25

Batch ID: BC51109 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0574-01	SB35_0-2	03/14/25
25C0574-02	SB35_5-7	03/14/25
25C0574-03	SB36_0-2	03/14/25
25C0574-04	SB36_5-7	03/14/25
25C0574-05	SB37_0-2	03/14/25
25C0574-06	SB37_5-7	03/14/25
25C0574-07	SB38_0-2	03/14/25
25C0574-08	SB38_5-7	03/14/25

Batch ID: BC51133 **Preparation Method:** EPA 3550C **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
25C0574-04	SB36_5-7	03/15/25
25C0574-05	SB37_0-2	03/15/25
25C0574-06	SB37_5-7	03/15/25

25C0574-07	SB38_0-2	03/15/25
25C0574-08	SB38_5-7	03/15/25
BC51133-BLK1	Blank	03/15/25
BC51133-BS2	LCS	03/15/25
BC51133-MS2	Matrix Spike	03/15/25
BC51133-MSD2	Matrix Spike Dup	03/15/25

Batch ID: BC51134 **Preparation Method:** EPA 3550C **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
25C0574-04	SB36_5-7	03/15/25
25C0574-05	SB37_0-2	03/15/25
25C0574-06	SB37_5-7	03/15/25
25C0574-07	SB38_0-2	03/15/25
25C0574-08	SB38_5-7	03/15/25
BC51134-BLK1	Blank	03/15/25
BC51134-BS1	LCS	03/15/25
BC51134-MS1	Matrix Spike	03/15/25
BC51134-MSD1	Matrix Spike Dup	03/15/25

Batch ID: BC51147 **Preparation Method:** EPA 3550C **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
25C0574-01	SB35_0-2	03/16/25
25C0574-02	SB35_5-7	03/16/25
25C0574-03	SB36_0-2	03/16/25
25C0574-04	SB36_5-7	03/16/25
25C0574-05	SB37_0-2	03/16/25
25C0574-06	SB37_5-7	03/16/25
25C0574-07	SB38_0-2	03/16/25
25C0574-08	SB38_5-7	03/16/25
BC51147-BLK1	Blank	03/16/25
BC51147-BS1	LCS	03/16/25

Batch ID: BC51148 **Preparation Method:** EPA 3550C **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
25C0574-01	SB35_0-2	03/16/25
25C0574-02	SB35_5-7	03/16/25
25C0574-03	SB36_0-2	03/16/25
25C0574-04	SB36_5-7	03/16/25
25C0574-05	SB37_0-2	03/16/25
25C0574-06	SB37_5-7	03/16/25
25C0574-07	SB38_0-2	03/16/25
25C0574-08	SB38_5-7	03/16/25
BC51148-BLK1	Blank	03/16/25
BC51148-BS1	LCS	03/16/25

Batch ID: BC51163 **Preparation Method:** EPA 3550C/8151A **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
25C0574-01	SB35_0-2	03/17/25
25C0574-02	SB35_5-7	03/17/25
25C0574-03	SB36_0-2	03/17/25
25C0574-04	SB36_5-7	03/17/25
25C0574-05	SB37_0-2	03/17/25
25C0574-06	SB37_5-7	03/17/25
BC51163-BLK1	Blank	03/17/25
BC51163-BS1	LCS	03/17/25

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50914 - EPA 5035A											
Blank (BC50914-BLK1) Blank									Prepared & Analyzed: 03/11/2025		
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50914 - EPA 5035A											
Blank (BC50914-BLK1) Blank							Prepared & Analyzed: 03/11/2025				
n-Butylbenzene	ND	0.0050	mg/kg wet								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.5*		*ug/L*	*50.0*		*103*	*77-125*				
Surrogate: SURR: Toluene-d8	*48.9*		*"*	*50.0*		*97.7*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*52.2*		*"*	*50.0*		*104*	*76-130*				
LCS (BC50914-BS1) LCS							Prepared & Analyzed: 03/11/2025				
1,1,1,2-Tetrachloroethane	50.7		ug/L	50.0		101	75-129				
1,1,1-Trichloroethane	54.7		"	50.0		109	71-137				
1,1,2,2-Tetrachloroethane	54.2		"	50.0		108	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	57.2		"	50.0		114	58-146				
1,1,2-Trichloroethane	53.3		"	50.0		107	83-123				
1,1-Dichloroethane	60.3		"	50.0		121	75-130				
1,1-Dichloroethylene	63.5		"	50.0		127	64-137				
1,2,3-Trichlorobenzene	46.3		"	50.0		92.6	81-140				
1,2,3-Trichloropropane	52.1		"	50.0		104	81-126				
1,2,4-Trichlorobenzene	47.5		"	50.0		94.9	80-141				
1,2,4-Trimethylbenzene	51.6		"	50.0		103	84-125				
1,2-Dibromo-3-chloropropane	52.5		"	50.0		105	74-142				
1,2-Dibromoethane	51.2		"	50.0		102	86-123				
1,2-Dichlorobenzene	49.3		"	50.0		98.5	85-122				
1,2-Dichloroethane	60.9		"	50.0		122	71-133				
1,2-Dichloropropane	57.8		"	50.0		116	81-122				
1,3,5-Trimethylbenzene	52.9		"	50.0		106	82-126				
1,3-Dichlorobenzene	48.2		"	50.0		96.4	84-124				
1,4-Dichlorobenzene	49.1		"	50.0		98.2	84-124				
1,4-Dioxane	1010		"	1050		95.9	10-228				
2-Butanone	47.0		"	50.0		94.0	58-147				
2-Hexanone	42.4		"	50.0		84.9	70-139				
4-Methyl-2-pentanone	36.5		"	50.0		73.0	72-132				
Acetone	29.5		"	50.0		58.9	36-155				
Acrolein	53.0		"	50.0		106	10-238				
Acrylonitrile	60.8		"	50.0		122	66-141				
Benzene	59.3		"	50.0		119	77-127				
Bromochloromethane	57.9		"	50.0		116	74-129				
Bromodichloromethane	57.0		"	50.0		114	81-124				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50914 - EPA 5035A											
LCS (BC50914-BS1) LCS							Prepared & Analyzed: 03/11/2025				
Bromoform	54.0		ug/L	50.0		108	80-136				
Bromomethane	69.8		"	50.0		140	32-177				
Carbon disulfide	61.2		"	50.0		122	10-136				
Carbon tetrachloride	57.5		"	50.0		115	66-143				
Chlorobenzene	50.8		"	50.0		102	86-120				
Chloroethane	62.4		"	50.0		125	51-142				
Chloroform	59.1		"	50.0		118	76-131				
Chloromethane	50.9		"	50.0		102	49-132				
cis-1,2-Dichloroethylene	58.4		"	50.0		117	74-132				
cis-1,3-Dichloropropylene	48.8		"	50.0		97.5	81-129				
Cyclohexane	61.8		"	50.0		124	70-130				
Dibromochloromethane	56.2		"	50.0		112	10-200				
Dibromomethane	52.0		"	50.0		104	83-124				
Dichlorodifluoromethane	52.4		"	50.0		105	28-158				
Ethyl Benzene	54.6		"	50.0		109	84-125				
Hexachlorobutadiene	44.4		"	50.0		88.8	83-133				
Isopropylbenzene	52.6		"	50.0		105	81-127				
Methyl acetate	37.5		"	50.0		75.1	41-143				
Methyl tert-butyl ether (MTBE)	47.6		"	50.0		95.2	74-131				
Methylcyclohexane	50.9		"	50.0		102	70-130				
Methylene chloride	58.3		"	50.0		117	57-141				
n-Butylbenzene	53.2		"	50.0		106	80-130				
n-Propylbenzene	54.3		"	50.0		109	74-136				
o-Xylene	52.5		"	50.0		105	83-123				
p- & m- Xylenes	106		"	100		106	82-128				
p-Isopropyltoluene	53.7		"	50.0		107	85-125				
sec-Butylbenzene	52.0		"	50.0		104	83-125				
Styrene	53.2		"	50.0		106	86-126				
tert-Butyl alcohol (TBA)	178		"	250		71.2	70-130				
tert-Butylbenzene	44.7		"	50.0		89.4	80-127				
Tetrachloroethylene	42.1		"	50.0		84.2	80-129				
Toluene	53.1		"	50.0		106	85-121				
trans-1,2-Dichloroethylene	62.6		"	50.0		125	72-132				
trans-1,3-Dichloropropylene	46.4		"	50.0		92.9	78-132				
Trichloroethylene	53.2		"	50.0		106	84-123				
Trichlorofluoromethane	55.6		"	50.0		111	62-140				
Vinyl Chloride	62.5		"	50.0		125	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.3*		*"*	*50.0*		*103*	*77-125*				
Surrogate: SURR: Toluene-d8	*49.2*		*"*	*50.0*		*98.4*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*51.5*		*"*	*50.0*		*103*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50914 - EPA 5035A											
LCS Dup (BC50914-BSD1) LCS Dup							Prepared & Analyzed: 03/11/2025				
1,1,1,2-Tetrachloroethane	45.2		ug/L	50.0		90.5	75-129		11.3	30	
1,1,1-Trichloroethane	49.2		"	50.0		98.5	71-137		10.5	30	
1,1,2,2-Tetrachloroethane	48.1		"	50.0		96.2	79-129		12.0	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53.6		"	50.0		107	58-146		6.35	30	
1,1,2-Trichloroethane	47.6		"	50.0		95.3	83-123		11.2	30	
1,1-Dichloroethane	56.0		"	50.0		112	75-130		7.31	30	
1,1-Dichloroethylene	58.8		"	50.0		118	64-137		7.67	30	
1,2,3-Trichlorobenzene	41.2		"	50.0		82.3	81-140		11.8	30	
1,2,3-Trichloropropane	45.7		"	50.0		91.4	81-126		13.0	30	
1,2,4-Trichlorobenzene	41.7		"	50.0		83.3	80-141		13.0	30	
1,2,4-Trimethylbenzene	45.2		"	50.0		90.5	84-125		13.1	30	
1,2-Dibromo-3-chloropropane	45.3		"	50.0		90.6	74-142		14.8	30	
1,2-Dibromoethane	45.8		"	50.0		91.6	86-123		11.0	30	
1,2-Dichlorobenzene	43.6		"	50.0		87.3	85-122		12.1	30	
1,2-Dichloroethane	54.5		"	50.0		109	71-133		11.2	30	
1,2-Dichloropropane	49.2		"	50.0		98.5	81-122		15.9	30	
1,3,5-Trimethylbenzene	46.0		"	50.0		92.1	82-126		13.8	30	
1,3-Dichlorobenzene	42.1		"	50.0		84.2	84-124		13.5	30	
1,4-Dichlorobenzene	42.7		"	50.0		85.4	84-124		13.9	30	
1,4-Dioxane	933		"	1050		88.9	10-228		7.60	30	
2-Butanone	45.2		"	50.0		90.5	58-147		3.86	30	
2-Hexanone	37.8		"	50.0		75.7	70-139		11.5	30	
4-Methyl-2-pentanone	32.3		"	50.0		64.5	72-132	Low Bias	12.3	30	
Acetone	27.2		"	50.0		54.3	36-155		8.16	30	
Acrolein	48.6		"	50.0		97.1	10-238		8.76	30	
Acrylonitrile	58.3		"	50.0		117	66-141		4.32	30	
Benzene	54.1		"	50.0		108	77-127		9.26	30	
Bromochloromethane	52.4		"	50.0		105	74-129		10.0	30	
Bromodichloromethane	50.3		"	50.0		101	81-124		12.5	30	
Bromoform	48.9		"	50.0		97.8	80-136		10.0	30	
Bromomethane	64.0		"	50.0		128	32-177		8.64	30	
Carbon disulfide	55.7		"	50.0		111	10-136		9.34	30	
Carbon tetrachloride	52.1		"	50.0		104	66-143		9.84	30	
Chlorobenzene	45.5		"	50.0		91.0	86-120		11.1	30	
Chloroethane	57.4		"	50.0		115	51-142		8.30	30	
Chloroform	54.2		"	50.0		108	76-131		8.75	30	
Chloromethane	43.7		"	50.0		87.5	49-132		15.2	30	
cis-1,2-Dichloroethylene	53.6		"	50.0		107	74-132		8.62	30	
cis-1,3-Dichloropropylene	42.7		"	50.0		85.4	81-129		13.3	30	
Cyclohexane	55.8		"	50.0		112	70-130		10.4	30	
Dibromochloromethane	50.1		"	50.0		100	10-200		11.6	30	
Dibromomethane	46.5		"	50.0		93.1	83-124		11.1	30	
Dichlorodifluoromethane	48.3		"	50.0		96.5	28-158		8.15	30	
Ethyl Benzene	48.7		"	50.0		97.3	84-125		11.6	30	
Hexachlorobutadiene	38.8		"	50.0		77.5	83-133	Low Bias	13.6	30	
Isopropylbenzene	45.8		"	50.0		91.6	81-127		13.7	30	
Methyl acetate	36.4		"	50.0		72.8	41-143		3.00	30	
Methyl tert-butyl ether (MTBE)	43.0		"	50.0		86.1	74-131		10.1	30	
Methylcyclohexane	45.5		"	50.0		91.1	70-130		11.2	30	
Methylene chloride	51.5		"	50.0		103	57-141		12.4	30	
n-Butylbenzene	47.8		"	50.0		95.6	80-130		10.8	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50914 - EPA 5035A											
LCS Dup (BC50914-BSD1) LCS Dup							Prepared & Analyzed: 03/11/2025				
n-Propylbenzene	47.1		ug/L	50.0		94.1	74-136		14.2	30	
o-Xylene	46.8		"	50.0		93.5	83-123		11.5	30	
p- & m- Xylenes	96.2		"	100		96.2	82-128		9.99	30	
p-Isopropyltoluene	47.5		"	50.0		95.0	85-125		12.2	30	
sec-Butylbenzene	45.7		"	50.0		91.5	83-125		12.9	30	
Styrene	47.7		"	50.0		95.4	86-126		10.8	30	
tert-Butyl alcohol (TBA)	162		"	250		64.7	70-130	Low Bias	9.49	30	
tert-Butylbenzene	39.2		"	50.0		78.3	80-127	Low Bias	13.1	30	
Tetrachloroethylene	37.8		"	50.0		75.6	80-129	Low Bias	10.7	30	
Toluene	47.3		"	50.0		94.5	85-121		11.6	30	
trans-1,2-Dichloroethylene	55.2		"	50.0		110	72-132		12.6	30	
trans-1,3-Dichloropropylene	40.4		"	50.0		80.8	78-132		13.9	30	
Trichloroethylene	47.2		"	50.0		94.3	84-123		12.0	30	
Trichlorofluoromethane	52.3		"	50.0		105	62-140		6.06	30	
Vinyl Chloride	57.0		"	50.0		114	52-130		9.23	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.4*		*"*	*50.0*		*103*	*77-125*				
Surrogate: SURR: Toluene-d8	*48.7*		*"*	*50.0*		*97.4*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*50.5*		*"*	*50.0*		*101*	*76-130*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51147 - EPA 3550C											
Blank (BC51147-BLK1) Blank										Prepared: 03/16/2025 Analyzed: 03/17/2025	
1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								
Caprolactam	ND	0.0830	"								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51147 - EPA 3550C											
Blank (BC51147-BLK1) Blank									Prepared: 03/16/2025 Analyzed: 03/17/2025		
Dibenzofuran	ND	0.0416	mg/kg wet								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Pyridine	ND	0.166	"								
Surrogate: SURR: 2-Fluorophenol	*1.71*		*"*	*1.66*		*103*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.55*		*"*	*1.66*		*93.0*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.662*		*"*	*0.831*		*79.7*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.706*		*"*	*0.831*		*85.0*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.79*		*"*	*1.66*		*107*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.802*		*"*	*0.831*		*96.6*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51147 - EPA 3550C											
LCS (BC51147-BS1) LCS								Prepared: 03/16/2025 Analyzed: 03/17/2025			
1,1-Biphenyl	0.725	0.0416	mg/kg wet	0.831		87.3	18-111				
1,2,4,5-Tetrachlorobenzene	0.811	0.0830	"	0.831		97.6	21-131				
1,2-Diphenylhydrazine (as Azobenzene)	0.714	0.0416	"	0.831		86.0	17-137				
2,3,4,6-Tetrachlorophenol	0.792	0.0830	"	0.831		95.4	30-130				
2,4,5-Trichlorophenol	0.860	0.0416	"	0.831		104	27-118				
2,4,6-Trichlorophenol	0.872	0.0416	"	0.831		105	31-120				
2,4-Dichlorophenol	0.874	0.0416	"	0.831		105	20-127				
2,4-Dimethylphenol	0.844	0.0416	"	0.831		102	14-132				
2,4-Dinitrophenol	0.775	0.0830	"	0.831		93.4	10-171				
2,4-Dinitrotoluene	0.819	0.0416	"	0.831		98.6	34-131				
2,6-Dinitrotoluene	0.805	0.0416	"	0.831		96.9	31-128				
2-Chloronaphthalene	0.768	0.0416	"	0.831		92.5	31-117				
2-Chlorophenol	0.764	0.0416	"	0.831		92.0	33-113				
2-Methylnaphthalene	0.677	0.0416	"	0.831		81.5	12-138				
2-Methylphenol	0.794	0.0416	"	0.831		95.6	10-136				
2-Nitroaniline	0.818	0.0830	"	0.831		98.5	27-132				
2-Nitrophenol	0.756	0.0416	"	0.831		91.1	17-129				
3- & 4-Methylphenols	0.699	0.0416	"	0.831		84.1	29-103				
3,3-Dichlorobenzidine	0.638	0.0416	"	0.831		76.8	22-149				
3-Nitroaniline	0.673	0.0830	"	0.831		81.0	20-133				
4,6-Dinitro-2-methylphenol	0.791	0.0830	"	0.831		95.2	10-143				
4-Bromophenyl phenyl ether	0.824	0.0416	"	0.831		99.2	29-120				
4-Chloro-3-methylphenol	0.823	0.0416	"	0.831		99.0	24-129				
4-Chloroaniline	0.490	0.0416	"	0.831		59.0	10-132				
4-Chlorophenyl phenyl ether	0.801	0.0416	"	0.831		96.5	27-124				
4-Nitroaniline	0.744	0.0830	"	0.831		89.6	16-128				
4-Nitrophenol	0.694	0.0830	"	0.831		83.5	10-141				
Acenaphthene	0.728	0.0416	"	0.831		87.6	30-121				
Acenaphthylene	0.762	0.0416	"	0.831		91.8	30-115				
Acetophenone	0.752	0.0416	"	0.831		90.6	20-112				
Aniline	0.430	0.166	"	0.831		51.8	10-119				
Anthracene	0.791	0.0416	"	0.831		95.2	34-118				
Atrazine	0.868	0.0416	"	0.831		105	26-112				
Benzaldehyde	0.658	0.0416	"	0.831		79.2	21-100				
Benzo(a)anthracene	0.815	0.0416	"	0.831		98.1	32-122				
Benzo(a)pyrene	0.826	0.0416	"	0.831		99.5	29-133				
Benzo(b)fluoranthene	0.849	0.0416	"	0.831		102	25-133				
Benzo(g,h,i)perylene	0.917	0.0416	"	0.831		110	10-143				
Benzo(k)fluoranthene	0.815	0.0416	"	0.831		98.1	25-128				
Benzoic acid	1.34	0.0416	"	0.831		161	10-140	High Bias			
Benzyl alcohol	0.774	0.0416	"	0.831		93.2	30-115				
Benzyl butyl phthalate	0.781	0.0416	"	0.831		94.0	26-126				
Bis(2-chloroethoxy)methane	0.770	0.0416	"	0.831		92.8	19-132				
Bis(2-chloroethyl)ether	0.736	0.0416	"	0.831		88.6	19-125				
Bis(2-chloroisopropyl)ether	0.718	0.0416	"	0.831		86.5	20-135				
Bis(2-ethylhexyl)phthalate	0.800	0.0416	"	0.831		96.4	10-155				
Caprolactam	0.935	0.0830	"	0.831		113	10-127				
Carbazole	0.774	0.0416	"	0.831		93.2	35-123				
Chrysene	0.824	0.0416	"	0.831		99.2	32-123				
Dibenzo(a,h)anthracene	0.836	0.0416	"	0.831		101	10-136				
Dibenzofuran	0.772	0.0416	"	0.831		93.0	29-121				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51147 - EPA 3550C											
LCS (BC51147-BS1) LCS								Prepared: 03/16/2025 Analyzed: 03/17/2025			
Diethyl phthalate	0.745	0.0416	mg/kg wet	0.831		89.7	34-116				
Dimethyl phthalate	0.781	0.0416	"	0.831		94.1	35-124				
Di-n-butyl phthalate	0.767	0.0416	"	0.831		92.3	31-116				
Di-n-octyl phthalate	0.772	0.0416	"	0.831		92.9	26-136				
Diphenylamine	0.904	0.0830	"	0.831		109	40-140				
Fluoranthene	0.766	0.0416	"	0.831		92.3	33-122				
Fluorene	0.762	0.0416	"	0.831		91.7	29-123				
Hexachlorobenzene	0.686	0.0416	"	0.831		82.6	21-124				
Hexachlorobutadiene	0.755	0.0416	"	0.831		91.0	10-149				
Hexachlorocyclopentadiene	0.538	0.0416	"	0.831		64.8	10-129				
Hexachloroethane	0.658	0.0416	"	0.831		79.2	28-108				
Indeno(1,2,3-cd)pyrene	0.840	0.0416	"	0.831		101	10-135				
Isophorone	0.744	0.0416	"	0.831		89.6	20-132				
Naphthalene	0.749	0.0416	"	0.831		90.1	23-124				
Nitrobenzene	0.697	0.0416	"	0.831		83.9	13-132				
N-Nitrosodimethylamine	0.691	0.0416	"	0.831		83.2	11-129				
N-nitroso-di-n-propylamine	0.632	0.0416	"	0.831		76.0	24-119				
N-Nitrosodiphenylamine	0.847	0.0416	"	0.831		102	22-152				
Pentachlorophenol	0.800	0.0416	"	0.831		96.4	10-139				
Phenanthrene	0.796	0.0416	"	0.831		95.8	33-123				
Phenol	0.795	0.0416	"	0.831		95.8	23-115				
Pyrene	0.849	0.0416	"	0.831		102	24-130				
Pyridine	0.688	0.166	"	0.831		82.8	10-91				
Surrogate: SURR: 2-Fluorophenol	*1.59*		*"*	*1.66*		*95.5*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.52*		*"*	*1.66*		*91.7*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.645*		*"*	*0.831*		*77.6*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.697*		*"*	*0.831*		*83.9*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.81*		*"*	*1.66*		*109*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.786*		*"*	*0.831*		*94.7*	*24-116*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51148 - EPA 3550C											
Blank (BC51148-BLK1) Blank								Prepared: 03/16/2025 Analyzed: 03/17/2025			
1,4-Dioxane	ND	19.8	ug/kg								
Surrogate: 1,4-Dioxane-d8	*554*		*"*	*495*		*112*	*39-127.5*				
LCS (BC51148-BS1) LCS								Prepared: 03/16/2025 Analyzed: 03/17/2025			
1,4-Dioxane	503	19.8	ug/kg	495		102	40-130				
Surrogate: 1,4-Dioxane-d8	*525*		*"*	*495*		*106*	*39-127.5*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50781 - EPA 1633 Prep											
Blank (BC50781-BLK1) Blank									Prepared: 03/11/2025 Analyzed: 03/12/2025		
Perfluorobutanesulfonic acid (PFBS)	ND	0.176	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.199	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.199	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.182	"								
Perfluorooctanoic acid (PFOA)	ND	0.199	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.185	"								
Perfluorononanoic acid (PFNA)	ND	0.199	"								
Perfluorodecanoic acid (PFDA)	ND	0.199	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.199	"								
Perfluorododecanoic acid (PFDoA)	ND	0.199	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.199	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.199	"								
N-MeFOSAA	ND	0.199	"								
N-EtFOSAA	ND	0.199	"								
Perfluoropentanoic acid (PFPeA)	ND	0.398	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.199	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.199	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.192	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	0.757	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	0.765	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.797	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.355	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.398	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.398	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.398	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.187	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	ND	0.747	"								
HFPO-DA (Gen-X)	ND	0.797	"								
11CL-PF3OUdS	ND	0.753	"								
9CL-PF3ONS	ND	0.745	"								
ADONA	ND	0.753	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.193	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.191	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	0.996	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	4.98	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	4.98	"								
N-MeFOSE	ND	1.99	"								
N-MeFOSA	ND	0.199	"								
N-EtFOSE	ND	1.99	"								
N-EtFOSA	ND	0.199	"								
Surrogate: M3PFBS	*3.07*		*"*	*2.32*		*132*	*25-150*				
Surrogate: M5PFHxA	*3.06*		*"*	*2.49*		*123*	*25-150*				
Surrogate: M4PFHpA	*3.72*		*"*	*2.49*		*149*	*25-150*				
Surrogate: M3PFHxS	*3.06*		*"*	*2.36*		*130*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.02*		*"*	*2.49*		*121*	*25-150*				
Surrogate: M6PFDA	*1.40*		*"*	*1.25*		*112*	*25-150*				
Surrogate: M7PFUdA	*1.56*		*"*	*1.25*		*125*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.35*		*"*	*1.25*		*109*	*25-150*				
Surrogate: M2PFTeDA	*1.29*		*"*	*1.25*		*104*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50781 - EPA 1633 Prep											
Blank (BC50781-BLK1) Blank								Prepared: 03/11/2025 Analyzed: 03/12/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*11.9*		*ug/kg wet*	*9.96*		*120*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.55*		*"*	*2.39*		*107*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*6.41*		*"*	*4.98*		*129*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.39*		*"*	*2.49*		*96.0*	*10-150*				
Surrogate: d3-N-MeFOSAA	*5.70*		*"*	*4.98*		*115*	*25-150*				
Surrogate: d5-N-EtFOSAA	*5.88*		*"*	*4.98*		*118*	*25-150*				
Surrogate: M2-6:2 FTS	*5.42*		*"*	*4.74*		*114*	*25-200*				
Surrogate: M2-8:2 FTS	*5.15*		*"*	*4.78*		*108*	*25-200*				
Surrogate: M9PFNA	*1.18*		*"*	*1.25*		*94.8*	*25-150*				
Surrogate: M2-4:2 FTS	*6.04*		*"*	*4.67*		*129*	*25-150*				
Surrogate: d-N-MeFOSA	*1.68*		*"*	*2.49*		*67.3*	*25-150*				
Surrogate: d-N-EtFOSA	*2.05*		*"*	*2.49*		*82.2*	*25-150*				
Surrogate: M3HFPO-DA	*13.5*		*"*	*9.96*		*135*	*25-150*				
Surrogate: d9-N-EtFOSE	*19.7*		*"*	*24.9*		*79.0*	*25-150*				
Surrogate: d7-N-MeFOSE	*17.3*		*"*	*24.9*		*69.6*	*25-150*				
LCS (BC50781-BS1) LCS								Prepared: 03/11/2025 Analyzed: 03/12/2025			
Perfluorobutanesulfonic acid (PFBS)	3.27	0.175	ug/kg wet	3.49		93.7	50-150				
Perfluorohexanoic acid (PFHxA)	3.73	0.197	"	3.94		94.6	50-150				
Perfluoroheptanoic acid (PFHpA)	2.88	0.197	"	3.94		73.1	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.13	0.180	"	3.61		86.8	50-150				
Perfluorooctanoic acid (PFOA)	3.35	0.197	"	3.94		84.9	50-150				
Perfluorooctanesulfonic acid (PFOS)	2.90	0.183	"	3.67		79.0	50-150				
Perfluorononanoic acid (PFNA)	3.52	0.197	"	3.94		89.3	50-150				
Perfluorodecanoic acid (PFDA)	3.49	0.197	"	3.94		88.6	50-150				
Perfluoroundecanoic acid (PFUnA)	3.66	0.197	"	3.94		92.8	50-150				
Perfluorododecanoic acid (PFDoA)	2.83	0.197	"	3.94		71.7	50-150				
Perfluorotridecanoic acid (PFTrDA)	3.13	0.197	"	3.94		79.3	50-150				
Perfluorotetradecanoic acid (PFTA)	3.29	0.197	"	3.94		83.4	50-150				
N-MeFOSAA	3.87	0.197	"	3.94		98.1	50-150				
N-EtFOSAA	3.82	0.197	"	3.94		96.9	50-150				
Perfluoropentanoic acid (PFPeA)	7.06	0.394	"	7.89		89.5	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	3.98	0.197	"	3.94		101	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.40	0.197	"	3.77		90.4	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.30	0.190	"	3.81		86.8	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	14.0	0.750	"	15.0		93.1	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	14.7	0.757	"	15.1		97.0	50-150				
Perfluoro-n-butanoic acid (PFBA)	14.0	0.789	"	15.8		88.7	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	6.94	0.351	"	7.02		98.9	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	6.40	0.394	"	7.89		81.1	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	7.09	0.394	"	7.89		89.9	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	7.02	0.394	"	7.89		88.9	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	3.35	0.185	"	3.71		90.3	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	14.0	0.740	"	14.8		94.7	50-150				
HFPO-DA (Gen-X)	7.43	0.789	"	7.89		94.2	50-150				
11CL-PF3OUdS	5.08	0.746	"	7.46		68.1	50-150				
9CL-PF3ONS	6.01	0.738	"	7.38		81.4	50-150				
ADONA	6.13	0.746	"	7.46		82.2	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50781 - EPA 1633 Prep											
LCS (BC50781-BS1) LCS								Prepared: 03/11/2025 Analyzed: 03/12/2025			
Perfluorododecanesulfonic acid (PFDoS)	3.39	0.191	ug/kg wet	3.83		88.7	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	3.84	0.189	"	3.79		101	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	65.3	0.986	"	15.8		414	50-150	High Bias			
3-Perfluoropentyl propanoic acid (FPePA)	66.8	4.93	"	78.9		84.7	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	11.0	4.93	"	78.9		13.9	50-150	Low Bias			
N-MeFOSE	40.7	1.97	"	39.4		103	50-150				
N-MeFOSA	3.54	0.197	"	3.94		89.8	50-150				
N-EtFOSE	33.5	1.97	"	39.4		84.8	50-150				
N-EtFOSA	3.33	0.197	"	3.94		84.5	50-150				
Surrogate: M3PFBS	*3.30*		*"*	*2.30*		*143*	*25-150*				
Surrogate: M5PFHxA	*3.06*		*"*	*2.47*		*124*	*25-150*				
Surrogate: M4PFHpA	*3.99*		*"*	*2.47*		*162*	*25-150*				
Surrogate: M3PFHxS	*3.23*		*"*	*2.34*		*138*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.88*		*"*	*2.47*		*117*	*25-150*				
Surrogate: M6PFDA	*1.34*		*"*	*1.23*		*109*	*25-150*				
Surrogate: M7PFUdA	*1.63*		*"*	*1.23*		*132*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.51*		*"*	*1.23*		*123*	*25-150*				
Surrogate: M2PFTeDA	*1.40*		*"*	*1.23*		*114*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*11.8*		*"*	*9.86*		*119*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.79*		*"*	*2.36*		*118*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*6.42*		*"*	*4.93*		*130*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.35*		*"*	*2.47*		*95.2*	*10-150*				
Surrogate: d3-N-MeFOSAA	*5.70*		*"*	*4.93*		*116*	*25-150*				
Surrogate: d5-N-EtFOSAA	*5.91*		*"*	*4.93*		*120*	*25-150*				
Surrogate: M2-6:2 FTS	*6.11*		*"*	*4.69*		*130*	*25-200*				
Surrogate: M2-8:2 FTS	*5.94*		*"*	*4.73*		*125*	*25-200*				
Surrogate: M9PFNA	*1.40*		*"*	*1.23*		*114*	*25-150*				
Surrogate: M2-4:2 FTS	*6.48*		*"*	*4.63*		*140*	*25-150*				
Surrogate: d-N-MeFOSA	*2.47*		*"*	*2.47*		*100*	*25-150*				
Surrogate: d-N-EtFOSA	*2.43*		*"*	*2.47*		*98.4*	*25-150*				
Surrogate: M3HFPO-DA	*13.8*		*"*	*9.86*		*140*	*25-150*				
Surrogate: d9-N-EtFOSE	*23.3*		*"*	*24.7*		*94.5*	*25-150*				
Surrogate: d7-N-MeFOSE	*20.8*		*"*	*24.7*		*84.3*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50781 - EPA 1633 Prep											
LCS (BC50781-BS2) LCS								Prepared: 03/11/2025 Analyzed: 03/12/2025			
Perfluorobutanesulfonic acid (PFBS)	0.323	0.175	ug/kg wet	0.350		92.1	50-150				
Perfluorohexanoic acid (PFHxA)	0.345	0.198	"	0.396		87.2	50-150				
Perfluoroheptanoic acid (PFHpA)	0.311	0.198	"	0.396		78.6	50-150				
Perfluorohexanesulfonic acid (PFHxS)	0.326	0.181	"	0.362		90.0	50-150				
Perfluorooctanoic acid (PFOA)	0.293	0.198	"	0.396		74.0	50-150				
Perfluorooctanesulfonic acid (PFOS)	0.295	0.184	"	0.368		80.2	50-150				
Perfluorononanoic acid (PFNA)	0.303	0.198	"	0.396		76.5	50-150				
Perfluorodecanoic acid (PFDA)	0.342	0.198	"	0.396		86.4	50-150				
Perfluoroundecanoic acid (PFUnA)	0.347	0.198	"	0.396		87.6	50-150				
Perfluorododecanoic acid (PFDoA)	0.242	0.198	"	0.396		61.1	50-150				
Perfluorotridecanoic acid (PFTrDA)	0.281	0.198	"	0.396		70.9	50-150				
Perfluorotetradecanoic acid (PFTA)	0.310	0.198	"	0.396		78.3	50-150				
N-MeFOSAA	0.362	0.198	"	0.396		91.5	50-150				
N-EtFOSAA	0.360	0.198	"	0.396		90.9	50-150				
Perfluoropentanoic acid (PFPeA)	0.646	0.396	"	0.792		81.5	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	0.361	0.198	"	0.396		91.3	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.334	0.198	"	0.378		88.2	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	0.305	0.191	"	0.382		79.7	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	1.31	0.752	"	1.50		86.9	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	1.52	0.760	"	1.52		100	50-150				
Perfluoro-n-butanoic acid (PFBA)	1.35	0.792	"	1.58		85.3	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.634	0.352	"	0.705		90.0	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	0.676	0.396	"	0.792		85.3	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	0.687	0.396	"	0.792		86.8	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	0.667	0.396	"	0.792		84.2	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	0.332	0.186	"	0.372		89.1	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	1.45	0.743	"	1.49		98.0	50-150				
HFPO-DA (Gen-X)	1.01	0.792	"	0.792		128	50-150				
11CL-PF3OUdS	0.444	0.749	"	0.749		59.3	50-150				
9CL-PF3ONS	0.534	0.741	"	0.741		72.1	50-150				
ADONA	0.604	0.749	"	0.749		80.7	50-150				
Perfluorododecanesulfonic acid (PFDoS)	0.344	0.192	"	0.384		89.6	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	0.381	0.190	"	0.380		100	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	5.54	0.990	"	1.58		350	50-150	High Bias			
3-Perfluoropentyl propanoic acid (FPePA)	6.14	4.95	"	7.92		77.6	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	1.12	4.95	"	7.92		14.1	50-150	Low Bias			
N-MeFOSE	3.56	1.98	"	3.96		89.8	50-150				
N-MeFOSA	0.392	0.198	"	0.396		99.0	50-150				
N-EtFOSE	3.32	1.98	"	3.96		83.8	50-150				
N-EtFOSA	0.449	0.198	"	0.396		113	50-150				
Surrogate: M3PFBS	*3.48*		*"*	*2.31*		*151*	*25-150*				
Surrogate: M5PFHxA	*3.22*		*"*	*2.48*		*130*	*25-150*				
Surrogate: M4PFHpA	*3.81*		*"*	*2.48*		*154*	*25-150*				
Surrogate: M3PFHxS	*3.11*		*"*	*2.35*		*132*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.94*		*"*	*2.48*		*119*	*25-150*				
Surrogate: M6PFDA	*1.25*		*"*	*1.24*		*101*	*25-150*				
Surrogate: M7PFUdA	*1.37*		*"*	*1.24*		*111*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.37*		*"*	*1.24*		*111*	*25-150*				
Surrogate: M2PFTeDA	*1.24*		*"*	*1.24*		*101*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50781 - EPA 1633 Prep											
LCS (BC50781-BS2) LCS								Prepared: 03/11/2025 Analyzed: 03/12/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*12.9*		*ug/kg wet*	*9.90*		*131*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.41*		*"*	*2.37*		*101*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*6.70*		*"*	*4.95*		*135*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.28*		*"*	*2.48*		*91.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*5.28*		*"*	*4.95*		*107*	*25-150*				
Surrogate: d5-N-EtFOSAA	*5.47*		*"*	*4.95*		*111*	*25-150*				
Surrogate: M2-6:2 FTS	*6.13*		*"*	*4.71*		*130*	*25-200*				
Surrogate: M2-8:2 FTS	*5.49*		*"*	*4.75*		*116*	*25-200*				
Surrogate: M9PFNA	*1.45*		*"*	*1.24*		*117*	*25-150*				
Surrogate: M2-4:2 FTS	*6.59*		*"*	*4.64*		*142*	*25-150*				
Surrogate: d-N-MeFOSA	*2.25*		*"*	*2.48*		*91.0*	*25-150*				
Surrogate: d-N-EtFOSA	*2.17*		*"*	*2.48*		*87.8*	*25-150*				
Surrogate: M3HFPO-DA	*13.0*		*"*	*9.90*		*132*	*25-150*				
Surrogate: d9-N-EtFOSE	*20.6*		*"*	*24.8*		*83.2*	*25-150*				
Surrogate: d7-N-MeFOSE	*19.8*		*"*	*24.8*		*80.1*	*25-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51072 - EPA 3550C											
Blank (BC51072-BLK1) Blank							Prepared & Analyzed: 03/14/2025				
4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								
Surrogate: Decachlorobiphenyl	*0.0586*		*"*	*0.0664*		*88.3*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0604*		*"*	*0.0664*		*90.9*	*30-150*				
LCS (BC51072-BS1) LCS							Prepared: 03/14/2025 Analyzed: 03/17/2025				
4,4'-DDD	0.0409	0.00164	mg/kg wet	0.0332		123	40-140				
4,4'-DDE	0.0411	0.00164	"	0.0332		124	40-140				
4,4'-DDT	0.0432	0.00164	"	0.0332		130	40-140				
Aldrin	0.0384	0.00164	"	0.0332		116	40-140				
alpha-BHC	0.0404	0.00164	"	0.0332		122	40-140				
alpha-Chlordane	0.0407	0.00164	"	0.0332		122	40-140				
beta-BHC	0.0374	0.00164	"	0.0332		112	40-140				
delta-BHC	0.0347	0.00164	"	0.0332		104	40-140				
Dieldrin	0.0414	0.00164	"	0.0332		125	40-140				
Endosulfan I	0.0406	0.00164	"	0.0332		122	40-140				
Endosulfan II	0.0434	0.00164	"	0.0332		131	40-140				
Endosulfan sulfate	0.0410	0.00164	"	0.0332		124	40-140				
Endrin	0.0429	0.00164	"	0.0332		129	40-140				
Endrin aldehyde	0.0433	0.00164	"	0.0332		130	40-140				
Endrin ketone	0.0410	0.00164	"	0.0332		124	40-140				
gamma-BHC (Lindane)	0.0398	0.00164	"	0.0332		120	40-140				
gamma-Chlordane	0.0398	0.00164	"	0.0332		120	40-140				
Heptachlor	0.0418	0.00164	"	0.0332		126	40-140				
Heptachlor epoxide	0.0413	0.00164	"	0.0332		124	40-140				
Methoxychlor	0.0428	0.00164	"	0.0332		129	40-140				
Surrogate: Decachlorobiphenyl	*0.0581*		*"*	*0.0664*		*87.5*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0633*		*"*	*0.0664*		*95.2*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51134 - EPA 3550C											
Blank (BC51134-BLK1) Blank							Prepared: 03/15/2025 Analyzed: 03/16/2025				
4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								
Surrogate: Decachlorobiphenyl	*0.0421*		*"*	*0.0664*		*63.3*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0506*		*"*	*0.0664*		*76.2*	*30-150*				
LCS (BC51134-BS1) LCS							Prepared: 03/15/2025 Analyzed: 03/16/2025				
4,4'-DDD	0.0285	0.00164	mg/kg wet	0.0332		85.8	40-140				
4,4'-DDE	0.0286	0.00164	"	0.0332		86.2	40-140				
4,4'-DDT	0.0288	0.00164	"	0.0332		86.7	40-140				
Aldrin	0.0280	0.00164	"	0.0332		84.2	40-140				
alpha-BHC	0.0293	0.00164	"	0.0332		88.1	40-140				
alpha-Chlordane	0.0300	0.00164	"	0.0332		90.3	40-140				
beta-BHC	0.0288	0.00164	"	0.0332		86.6	40-140				
delta-BHC	0.0239	0.00164	"	0.0332		71.8	40-140				
Dieldrin	0.0301	0.00164	"	0.0332		90.7	40-140				
Endosulfan I	0.0310	0.00164	"	0.0332		93.2	40-140				
Endosulfan II	0.0310	0.00164	"	0.0332		93.2	40-140				
Endosulfan sulfate	0.0278	0.00164	"	0.0332		83.7	40-140				
Endrin	0.0310	0.00164	"	0.0332		93.4	40-140				
Endrin aldehyde	0.0323	0.00164	"	0.0332		97.2	40-140				
Endrin ketone	0.0282	0.00164	"	0.0332		85.0	40-140				
gamma-BHC (Lindane)	0.0282	0.00164	"	0.0332		84.9	40-140				
gamma-Chlordane	0.0293	0.00164	"	0.0332		88.3	40-140				
Heptachlor	0.0300	0.00164	"	0.0332		90.4	40-140				
Heptachlor epoxide	0.0306	0.00164	"	0.0332		92.0	40-140				
Methoxychlor	0.0278	0.00164	"	0.0332		83.6	40-140				
Surrogate: Decachlorobiphenyl	*0.0453*		*"*	*0.0664*		*68.1*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0462*		*"*	*0.0664*		*69.6*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Batch BC51134 - EPA 3550C

Matrix Spike (BC51134-MS1) Matrix Spike *Source sample: 25C0574-04 (SB36_5-7) Prepared: 03/15/2025 Analyzed: 03/16/2025

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
4,4'-DDD	0.0345	0.00178	mg/kg dry	0.0361	ND	95.8	30-150				
4,4'-DDE	0.0352	0.00178	"	0.0361	ND	97.6	30-150				
4,4'-DDT	0.0359	0.00178	"	0.0361	ND	99.6	30-150				
Aldrin	0.0335	0.00178	"	0.0361	ND	92.9	30-150				
alpha-BHC	0.0357	0.00178	"	0.0361	ND	99.0	30-150				
alpha-Chlordane	0.0355	0.00178	"	0.0361	ND	98.3	30-150				
beta-BHC	0.0381	0.00178	"	0.0361	ND	106	30-150				
delta-BHC	0.0315	0.00178	"	0.0361	ND	87.4	30-150				
Dieldrin	0.0360	0.00178	"	0.0361	ND	99.9	30-150				
Endosulfan I	0.0360	0.00178	"	0.0361	ND	99.8	30-150				
Endosulfan II	0.0369	0.00178	"	0.0361	ND	102	30-150				
Endosulfan sulfate	0.0339	0.00178	"	0.0361	ND	93.9	30-150				
Endrin	0.0373	0.00178	"	0.0361	ND	103	30-150				
Endrin aldehyde	0.0400	0.00178	"	0.0361	ND	111	30-150				
Endrin ketone	0.0347	0.00178	"	0.0361	ND	96.3	30-150				
gamma-BHC (Lindane)	0.0353	0.00178	"	0.0361	ND	97.9	30-150				
gamma-Chlordane	0.0347	0.00178	"	0.0361	ND	96.1	30-150				
Heptachlor	0.0391	0.00178	"	0.0361	ND	108	30-150				
Heptachlor epoxide	0.0360	0.00178	"	0.0361	ND	99.7	30-150				
Methoxychlor	0.0343	0.00178	"	0.0361	ND	95.0	30-150				
Surrogate: Decachlorobiphenyl	*0.0538*		*"*	*0.0721*		*74.6*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0565*		*"*	*0.0721*		*78.3*	*30-150*				

Matrix Spike Dup (BC51134-M Matrix Spike Dup *Source sample: 25C0574-04 (SB36_5-7) Prepared: 03/15/2025 Analyzed: 03/16/2025

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
4,4'-DDD	0.0337	0.00178	mg/kg dry	0.0361	ND	93.6	30-150		2.31	30	
4,4'-DDE	0.0338	0.00178	"	0.0361	ND	93.8	30-150		3.90	30	
4,4'-DDT	0.0346	0.00178	"	0.0361	ND	95.9	30-150		3.74	30	
Aldrin	0.0327	0.00178	"	0.0361	ND	90.8	30-150		2.29	30	
alpha-BHC	0.0353	0.00178	"	0.0361	ND	98.0	30-150		1.08	30	
alpha-Chlordane	0.0344	0.00178	"	0.0361	ND	95.5	30-150		2.90	30	
beta-BHC	0.0378	0.00178	"	0.0361	ND	105	30-150		0.670	30	
delta-BHC	0.0316	0.00178	"	0.0361	ND	87.6	30-150		0.171	30	
Dieldrin	0.0347	0.00178	"	0.0361	ND	96.2	30-150		3.77	30	
Endosulfan I	0.0356	0.00178	"	0.0361	ND	98.6	30-150		1.17	30	
Endosulfan II	0.0361	0.00178	"	0.0361	ND	100	30-150		2.23	30	
Endosulfan sulfate	0.0333	0.00178	"	0.0361	ND	92.4	30-150		1.64	30	
Endrin	0.0361	0.00178	"	0.0361	ND	100	30-150		3.17	30	
Endrin aldehyde	0.0378	0.00178	"	0.0361	ND	105	30-150		5.65	30	
Endrin ketone	0.0347	0.00178	"	0.0361	ND	96.2	30-150		0.0468	30	
gamma-BHC (Lindane)	0.0343	0.00178	"	0.0361	ND	95.0	30-150		3.01	30	
gamma-Chlordane	0.0337	0.00178	"	0.0361	ND	93.4	30-150		2.94	30	
Heptachlor	0.0380	0.00178	"	0.0361	ND	105	30-150		2.86	30	
Heptachlor epoxide	0.0348	0.00178	"	0.0361	ND	96.6	30-150		3.13	30	
Methoxychlor	0.0340	0.00178	"	0.0361	ND	94.3	30-150		0.739	30	
Surrogate: Decachlorobiphenyl	*0.0572*		*"*	*0.0721*		*79.3*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0560*		*"*	*0.0721*		*77.7*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51071 - EPA 3550C											
Blank (BC51071-BLK2) Blank							Prepared & Analyzed: 03/14/2025				
Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Total PCBs	ND	0.0167	"								
Surrogate: Tetrachloro-m-xylene	*0.0563*		*"*	*0.0667*		*84.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0493*		*"*	*0.0667*		*74.0*	*30-120*				
LCS (BC51071-BS2) LCS							Prepared & Analyzed: 03/14/2025				
Aroclor 1016	0.304	0.0166	mg/kg wet	0.332		91.4	40-130				
Aroclor 1260	0.300	0.0166	"	0.332		90.4	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0502*		*"*	*0.0664*		*75.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0475*		*"*	*0.0664*		*71.5*	*30-120*				
Batch BC51133 - EPA 3550C											
Blank (BC51133-BLK1) Blank							Prepared: 03/15/2025 Analyzed: 03/16/2025				
Aroclor 1016 [2C]	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	*0.0462*		*"*	*0.0664*		*69.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0422*		*"*	*0.0664*		*63.5*	*30-120*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51133 - EPA 3550C											
LCS (BC51133-BS2) LCS							Prepared: 03/15/2025 Analyzed: 03/16/2025				
Aroclor 1016 [2C]	0.286	0.0167	mg/kg wet	0.333		85.9	40-130				
Aroclor 1260	0.258	0.0167	"	0.333		77.4	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0470*		*"*	*0.0667*		*70.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0407*		*"*	*0.0667*		*61.0*	*30-120*				
Matrix Spike (BC51133-MS2) Matrix Spike *Source sample: 25C0574-04 (SB36_5-7)							Prepared: 03/15/2025 Analyzed: 03/16/2025				
Aroclor 1016 [2C]	0.289	0.0180	mg/kg dry	0.361	ND	80.2	40-140				
Aroclor 1260	0.285	0.0180	"	0.361	ND	79.1	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0573*		*"*	*0.0721*		*79.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0462*		*"*	*0.0721*		*64.0*	*30-120*				
Matrix Spike Dup (BC51133-M Matrix Spike Dup *Source sample: 25C0574-04 (SB36_5-7)							Prepared: 03/15/2025 Analyzed: 03/16/2025				
Aroclor 1016 [2C]	0.303	0.0181	mg/kg dry	0.362	ND	83.8	40-140		4.70	50	
Aroclor 1260	0.303	0.0181	"	0.362	ND	83.6	40-140		5.91	50	
Surrogate: Tetrachloro-m-xylene	*0.0622*		*"*	*0.0724*		*86.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0499*		*"*	*0.0724*		*69.0*	*30-120*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51068 - EPA 3550C/8151A											
Blank (BC51068-BLK1) Blank							Prepared: 03/14/2025 Analyzed: 03/16/2025				
2,4,5-T	ND	0.0199	mg/kg wet								
2,4,5-TP (Silvex)	ND	0.0199	"								
2,4-D	ND	0.0199	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.388*		*"*	*0.415*		*93.4*	*21-150*				
LCS (BC51068-BS1) LCS							Prepared: 03/14/2025 Analyzed: 03/16/2025				
2,4,5-T	0.0681	0.0199	mg/kg wet	0.0664		102	10-120				
2,4,5-TP (Silvex)	0.0648	0.0199	"	0.0664		97.5	10-120				
2,4-D	0.0598	0.0199	"	0.0664		90.0	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.401*		*"*	*0.415*		*96.6*	*21-150*				
Batch BC51163 - EPA 3550C/8151A											
Blank (BC51163-BLK1) Blank							Prepared & Analyzed: 03/17/2025				
2,4,5-T	ND	0.0199	mg/kg wet								
2,4,5-TP (Silvex)	ND	0.0199	"								
2,4-D	ND	0.0199	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.326*		*"*	*0.415*		*78.6*	*21-150*				
LCS (BC51163-BS1) LCS							Prepared & Analyzed: 03/17/2025				
2,4,5-T	0.0581	0.0199	mg/kg wet	0.0664		87.5	10-120				
2,4,5-TP (Silvex)	0.0573	0.0199	"	0.0664		86.2	10-120				
2,4-D	0.0548	0.0199	"	0.0664		82.5	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.453*		*"*	*0.415*		*109*	*21-150*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51009 - EPA 3050B											
Blank (BC51009-BLK1) Blank									Prepared: 03/13/2025 Analyzed: 03/14/2025		
Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	ND	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	ND	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	1.67	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								
Reference (BC51009-SRM1) Reference									Prepared: 03/13/2025 Analyzed: 03/14/2025		
Aluminum	7430	4.17	mg/kg wet	7680		96.8	47.4-130.2				
Antimony	53.1	2.08	"	201		26.4	0-100				
Arsenic	139	1.25	"	181		77.0	66.3-98				
Barium	197	2.08	"	211		93.6	73.9-107.1				
Beryllium	247	0.042	"	270		91.4	73-104.4				
Cadmium	172	0.250	"	221		77.9	70.6-101.8				
Calcium	4080	4.17	"	4280		95.4	77.3-111				
Chromium	130	0.417	"	149		87.1	71.8-105.4				
Cobalt	129	0.333	"	142		91.0	73.2-104.2				
Copper	243	1.67	"	264		91.9	73.5-104.2				
Iron	6450	20.8	"	7360		87.6	55.4-130.3				
Lead	95.3	0.417	"	106		89.9	76.1-109.4				
Magnesium	2040	4.17	"	2170		93.9	68.7-112				
Manganese	234	0.417	"	270		86.7	73-107.8				
Nickel	157	0.830	"	177		88.9	71.8-103.4				
Potassium	2170	4.17	"	2340		92.7	62.8-113.7				
Selenium	116	2.08	"	139		83.4	70-107.9				
Silver	53.9	0.420	"	59.9		90.0	72.8-110.7				
Sodium	290	41.7	"	306		94.8	66-113.4				
Thallium	165	1.67	"	205		80.3	71.7-106.8				
Vanadium	132	0.830	"	155		85.0	69-107.7				
Zinc	332	2.08	"	389		85.3	70.4-106.9				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50883 - EPA 7473 soil											
Blank (BC50883-BLK1) Blank									Prepared: 03/12/2025 Analyzed: 03/14/2025		
Mercury	ND	0.0300	mg/kg wet								
Reference (BC50883-SRM1) Reference									Prepared: 03/12/2025 Analyzed: 03/14/2025		
Mercury	15.598		mg/kg	24.0		65.0	55.8-109.6				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50871 - EPA SW846-3060												
Blank (BC50871-BLK1)	Blank								Prepared & Analyzed: 03/12/2025			
Chromium, Hexavalent		ND	0.500	mg/kg wet								
Reference (BC50871-SRM1)	Reference								Prepared & Analyzed: 03/12/2025			
Chromium, Hexavalent		223		mg/L	227		98.2	42.3-157.7				
Batch BC50966 - EPA SW846-3060												
Blank (BC50966-BLK1)	Blank								Prepared & Analyzed: 03/13/2025			
Chromium, Hexavalent		ND	0.500	mg/kg wet								
Reference (BC50966-SRM1)	Reference								Prepared & Analyzed: 03/13/2025			
Chromium, Hexavalent		212		mg/L	227		93.5	42.3-157.7				
Batch BC51061 - Analysis Preparation Soil												
Blank (BC51061-BLK1)	Blank								Prepared & Analyzed: 03/14/2025			
Cyanide, total		ND	0.500	mg/kg wet								
Duplicate (BC51061-DUP1)	Duplicate	*Source sample: 25C0574-01 (SB35_0-2)							Prepared & Analyzed: 03/14/2025			
Cyanide, total		ND	0.570	mg/kg dry		ND					15	
Matrix Spike (BC51061-MS1)	Matrix Spike	*Source sample: 25C0574-01 (SB35_0-2)							Prepared & Analyzed: 03/14/2025			
Cyanide, total		5.34	0.570	mg/kg dry	5.70	ND	93.7	79.6-107				
Matrix Spike Dup (BC51061-M	Matrix Spike Dup	*Source sample: 25C0574-01 (SB35_0-2)							Prepared & Analyzed: 03/14/2025			
Cyanide, total		5.90	0.570	mg/kg dry	5.70	ND	104	79.6-107		9.96	200	

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51061 - Analysis Preparation Soil											
Reference (BC51061-SRM1) Reference								Prepared & Analyzed: 03/14/2025			
Cyanide, total	120		ug/mL	111		108	43.5-170				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
25C0574-01	SB35_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0574-02	SB35_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0574-03	SB36_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0574-04	SB36_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0574-05	SB37_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0574-06	SB37_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0574-07	SB38_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0574-08	SB38_5-7	40mL Vial with Stir Bar-Cool 4° C

Sample and Data Qualifiers Relating to This Work Order

QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
PF-CCV-L	The CCV recovery for this PFAS compound was below control limits.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This legal document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | 2161 Whitesville Rd Toms River, NJ 08755 | clientservices@yorklab.com | 800-306-YORK

YORK Project Number: 25C0574

Page 1 of 1

Report To:
Company: Langan
Address: 365 Ninth Ave 8th Fl NY, NY 10001
Phone.: 212 479-5400 ED
Contact: Lexi Haley
E-mail: LHaley@langan.com

Invoice To:
Company:
Address:
Phone.:
Contact:
E-mail:

YOUR Project Name / Number: Proposed Bally's Casino - Ring Road at Ferry Point Park 17077300

PO Number:

Samples Collected From: NY [X] NJ [ ] CT [ ] PA [ ] Other: (please specify)

Turn-Around Time: RUSH - Next Day; RUSH - Two Day; RUSH - Three Day; RUSH - Four Day; RUSH - Five Day; Standard (6-9 Day) [X]; PFAS Standard 7-10 Day

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Savannah Walters

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Preservative (please list number of containers)

Analyses Requested

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other: DI Water	Part 375 VOCs	Part 375 SVOCs, PCBs, Pest	Hg, Tal Metals (incl Hg)	tri chromium & total cyanide	1,4-dioxane	PFAS	Grab or Comp. G/C
SB35_0-2	3/10/25	1040	S	3		1							2	X	X	X	X	X		
SB35_5-7		1048																		
SB36_0-2		1141																		
SB36_5-7		1149																		
SB37_0-2		1217																		
SB37_5-7		1224																		
SB38_0-2		1252																		
SB38_5-7		1259		4																
~~SOTBOS 031025~~		—	AQ		2									X						

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered
Lab Filtered

Comments: please cc: datamanagement@langan.com areach@langan.com & swalters@langan.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N Containers Intact: Y / N COC/Labels Agree: Y / N Preservation Confirmed: Y / N
COC Complete: Y / N COC Received: Y / N Appropriate Sample Volumes: Y / N Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N Samples Submitted within Holding Times: Y / N Corrective Action Form Required: Y / N

Relinquished by / Company	Date/Time	Received by / Company	Date/Time	Relinquished by / Company	Date/Time
1. Samples Relinquished by / Company: Sarah Walters (Langan)	3/10/25	1. Samples Received by / Company: [signature]	3-10-25 4:00 pm	2. Samples Relinquished by / Company: [signature]	3-10-25 16:50
2. Samples Received by / Company: [signature]	3/10/25 16:50 4.1	3. Samples Relinquished by / Company: [signature]	3/10/25	3. Samples Received by / Company: A. Husain	3/10/25 16:50
4. Samples Relinquished by / Company: A. Husain	3/10/25 20:50	4. Samples Received by / Company		Samples Received in LAB by: [signature]	3/10/25 20:53 Temperature: 2 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Report Date: 03/20/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0648

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/20/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0648

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 11, 2025 and listed below. The project was identified as your project: **170773001**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25C0648-01	SOFB05_031125	Water	03/11/2025	03/11/2025
25C0648-02	SOFB05_PFAS_031125	Water	03/11/2025	03/11/2025
25C0648-03	SOTB05_031125	Water	03/11/2025	03/11/2025
25C0648-04	SB42_0-2	Soil	03/11/2025	03/11/2025
25C0648-05	SB42_5-7	Soil	03/11/2025	03/11/2025
25C0648-06	SB41_0-2	Soil	03/11/2025	03/11/2025
25C0648-07	SB41_5-7	Soil	03/11/2025	03/11/2025
25C0648-08	SB40_0-2	Soil	03/11/2025	03/11/2025
25C0648-09	SB40_5-7	Soil	03/11/2025	03/11/2025
25C0648-10	SB39_0-2	Soil	03/11/2025	03/11/2025
25C0648-11	SB39_5-7	Soil	03/11/2025	03/11/2025

General Notes for York Project (SDG) No.: 25C0648

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By **Date:** 03/20/2025

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: SOFB05_031125 **York Sample ID:** 25C0648-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Water	March 11, 2025 7:49 am	03/11/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SOFB05_031125 **York Sample ID:** 25C0648-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Water	March 11, 2025 7:49 am	03/11/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND		ug/L	1.34	2.00	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.451	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: **SOFB05_031125** **York Sample ID:** **25C0648-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Water	March 11, 2025 7:49 am	03/11/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SOFB05_031125** **York Sample ID:** **25C0648-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Water	March 11, 2025 7:49 am	03/11/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:27	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.3 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*79-122*

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND	CCVE	ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SOFB05_031125 **York Sample ID:** 25C0648-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Water	March 11, 2025 7:49 am	03/11/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-48-7	2-Methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
99-09-2	3-Nitroaniline	ND	CCVE	ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND	CCVE	ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND	QL-02	ug/L	5.41	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND	QL-02	ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND	CAL-E	ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	ug/L	5.41	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CCVE	ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SOFB05_031125 **York Sample ID:** 25C0648-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Water	March 11, 2025 7:49 am	03/11/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.08	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	NELAC-NY10854,PADEP-68-04440		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.41	10.8	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND	QL-02, CCVE	ug/L	0.811	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	QL-02	ug/L	2.70	5.41	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:33	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*26.8 %*	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*14.8 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*76.9 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*56.3 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*53.8 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*67.0 %*	*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: SOFB05_031125 **York Sample ID:** 25C0648-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Water	March 11, 2025 7:49 am	03/11/2025

83-32-9	Acenaphthene	ND		ug/L	0.0541	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		ug/L	0.0541	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-12-7	Anthracene	ND		ug/L	0.0541	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		ug/L	0.541	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.541	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	Chrysene	ND		ug/L	0.0541	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	Fluoranthene	ND		ug/L	0.0541	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	Fluorene	ND		ug/L	0.0541	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
118-74-1	Hexachlorobenzene	ND		ug/L	0.0216	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.541	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND		ug/L	0.541	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		ug/L	0.0541	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND	CCVE, ICVE	ug/L	0.270	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
62-75-9	N-Nitrosodimethylamine	ND	QL-02, CCVE	ug/L	0.541	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-86-5	Pentachlorophenol	ND	CCVE	ug/L	0.270	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
85-01-8	Phenanthrene	ND		ug/L	0.0541	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		ug/L	0.0541	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 18:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SOFB05_031125** **York Sample ID:** **25C0648-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Water	March 11, 2025 7:49 am	03/11/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270E SIM	03/13/2025 20:15	03/14/2025 22:15	SS
							Certifications: NJDEP-CT005,NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*92.0 %*	*36.6-118*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SOFB05_031125 **York Sample ID:** 25C0648-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Water	March 11, 2025 7:49 am	03/11/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:29	SCB
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*54.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*46.6 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:** EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	03/14/2025 13:57	03/17/2025 00:36	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	03/14/2025 13:57	03/17/2025 00:36	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	03/14/2025 13:57	03/17/2025 00:36	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	03/14/2025 13:57	03/17/2025 00:36	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	03/14/2025 13:57	03/17/2025 00:36	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	03/14/2025 13:57	03/17/2025 00:36	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	03/14/2025 13:57	03/17/2025 00:36	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	03/14/2025 13:57	03/17/2025 00:36	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*42.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*52.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SOFB05_031125** **York Sample ID:** **25C0648-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Water	March 11, 2025 7:49 am	03/11/2025

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	03/17/2025 08:40	03/17/2025 15:43	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	03/17/2025 08:40	03/17/2025 15:43	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	03/17/2025 08:40	03/17/2025 15:43	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*79.4 %*	*30-150*

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:17	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.0449**		mg/L	0.0278	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:17	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1.47**	M-BS	mg/L	0.0556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:17	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:17	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:17	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:17	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:17	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:17	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**0.142**		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:17	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:17	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:17	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**0.158**		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:17	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:17	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**1.15**		mg/L	0.556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:17	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:17	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SOFB05_031125 **York Sample ID:** 25C0648-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Water	March 11, 2025 7:49 am	03/11/2025

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:17	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 15:11	03/14/2025 13:59	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 15:11	03/14/2025 13:59	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	03/13/2025 15:11	03/14/2025 13:59	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND	M-CCV 1	ug/L	0.556	1	EPA 6020B	03/13/2025 15:11	03/14/2025 13:59	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 15:11	03/14/2025 13:59	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 15:11	03/14/2025 13:59	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/14/2025 07:58	03/14/2025 07:58	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	03/11/2025 20:24	03/11/2025 21:26	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	03/17/2025 15:03	03/17/2025 15:13	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SOFB05_031125** **York Sample ID:** **25C0648-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Water	March 11, 2025 7:49 am	03/11/2025

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C-2016 / E-201(	03/12/2025 13:55	03/12/2025 19:39	CB

Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: **SOFB05_PFAS_031125** **York Sample ID:** **25C0648-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Water	March 11, 2025 8:27 am	03/11/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.419	1.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.312	1.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.633	1.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.607	1.63	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.375	1.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.731	1.66	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.464	1.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.669	1.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.01	1.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.785	1.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.660	1.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.616	1.78	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.705	1.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
2991-50-6	N-EtFOSAA	ND		ng/L	0.919	1.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.205	3.57	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.785	1.78	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.812	1.70	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.18	1.72	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	6.69	6.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.83	6.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.294	7.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM

Sample Information

Client Sample ID: SOFB05_PFAS_031125 **York Sample ID:** 25C0648-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Water	March 11, 2025 8:27 am	03/11/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.446	3.18	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/19/2025 11:47	03/20/2025 13:27	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	1.91	3.57	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/19/2025 11:47	03/20/2025 13:27	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.223	3.57	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/19/2025 11:47	03/20/2025 13:27	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.330	3.57	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/19/2025 11:47	03/20/2025 13:27	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.678	1.68	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.60	6.69	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	2.88	7.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.23	6.74	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.624	6.67	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
919005-14-4	ADONA	ND		ng/L	0.473	6.74	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.830	1.73	1	EPA 1633 Draft 3 Certifications:	03/19/2025 11:47	03/20/2025 13:27	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.767	1.71	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/19/2025 11:47	03/20/2025 13:27	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND	PF-LCS-L	ng/L	1.81	4.46	1	EPA 1633 Draft 3 Certifications:	03/19/2025 11:47	03/20/2025 13:27	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	6.54	22.3	1	EPA 1633 Draft 3 Certifications:	03/19/2025 11:47	03/20/2025 13:27	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	8.45	22.3	1	EPA 1633 Draft 3 Certifications:	03/19/2025 11:47	03/20/2025 13:27	AM
24448-09-7	* N-MeFOSE	ND		ng/L	3.56	17.8	1	EPA 1633 Draft 3 Certifications:	03/19/2025 11:47	03/20/2025 13:27	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.41	1.78	1	EPA 1633 Draft 3 Certifications:	03/19/2025 11:47	03/20/2025 13:27	AM
1691-99-2	* N-EtFOSE	ND		ng/L	3.56	17.8	1	EPA 1633 Draft 3 Certifications:	03/19/2025 11:47	03/20/2025 13:27	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.61	1.78	1	EPA 1633 Draft 3 Certifications:	03/19/2025 11:47	03/20/2025 13:27	AM

	Surrogate Recoveries	Result	Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*113 %*	*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*105 %*	*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*97.3 %*	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*121 %*	*25-150*

Sample Information

Client Sample ID: **SOFB05_PFAS_031125** **York Sample ID:** **25C0648-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Water	March 11, 2025 8:27 am	03/11/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*111 %*			*25-150*						
13C6PFDA	*Surrogate: M6PFDA*	*85.9 %*			*25-150*						
13C7PFUNA	*Surrogate: M7PFUdA*	*96.5 %*			*25-150*						
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*90.0 %*			*25-150*						
13C2PFTEDA	*Surrogate: M2PFTeDA*	*89.3 %*			*10-150*						
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*4.47 %*	PFSu-L		*25-150*						
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*88.3 %*			*25-150*						
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*64.9 %*			*25-150*						
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*87.2 %*			*10-150*						
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*78.7 %*			*25-150*						
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*72.7 %*			*25-150*						
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*93.6 %*			*25-200*						
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*78.1 %*			*25-200*						
13C9PFNA	*Surrogate: M9PFNA*	*97.2 %*			*25-150*						
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*93.7 %*			*25-150*						
936109-37-4	*Surrogate: d-N-MeFOSA*	*99.4 %*			*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*97.5 %*			*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*67.2 %*			*25-150*						
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*98.6 %*			*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*98.9 %*			*25-150*						

Sample Information

Client Sample ID: **SOTB05_031125** **York Sample ID:** **25C0648-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Water	March 11, 2025 3:00 pm	03/11/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SOTB05_031125 **York Sample ID:** 25C0648-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Water	March 11, 2025 3:00 pm	03/11/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND		ug/L	1.34	2.00	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.451	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: **SOTB05_031125** **York Sample ID:** **25C0648-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Water	March 11, 2025 3:00 pm	03/11/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SOTB05_031125** **York Sample ID:** **25C0648-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Water	March 11, 2025 3:00 pm	03/11/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:32	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*101 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.2 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*79-122*

Sample Information

Client Sample ID: SB42_0-2 **York Sample ID:** 25C0648-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:31 am	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.056	0.11	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.012**		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
591-78-6	2-Hexanone	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB42_0-2** **York Sample ID:** **25C0648-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:31 am	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.033**	ICVE	mg/kg dry	0.0056	0.011	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0056	0.011	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB42_0-2 **York Sample ID:** 25C0648-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:31 am	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0056	0.011	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0056	0.011	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB42_0-2** **York Sample ID:** **25C0648-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:31 am	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0084	0.017	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:20	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0859	0.172	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0859	0.172	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0859	0.172	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	**2-Methylnaphthalene**	**0.0653**	J	mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB42_0-2** **York Sample ID:** **25C0648-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:31 am	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0859	0.172	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	**3- & 4-Methylphenols**	**0.0440**	J	mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0859	0.172	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0859	0.172	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0859	0.172	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0859	0.172	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	**Acenaphthene**	**0.146**		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**1.91**		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.172	0.344	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**1.79**		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.172	0.344	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**5.37**		mg/kg dry	0.538	1.07	25	EPA 8270E	03/17/2025 15:59	03/19/2025 12:03	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	**Benzo(a)pyrene**	**4.59**		mg/kg dry	0.538	1.07	25	EPA 8270E	03/17/2025 15:59	03/19/2025 12:03	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB42_0-2 **York Sample ID:** 25C0648-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:31 am	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	**Benzo(b)fluoranthene**	**4.54**		mg/kg dry	0.538	1.07	25	EPA 8270E	03/17/2025 15:59	03/19/2025 12:03	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**1.91**		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**3.78**		mg/kg dry	0.538	1.07	25	EPA 8270E	03/17/2025 15:59	03/19/2025 12:03	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	**Benzyl butyl phthalate**	**0.0769**	J	mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.222**		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0859	0.172	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	**Carbazole**	**0.332**		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**5.45**		mg/kg dry	0.538	1.07	25	EPA 8270E	03/17/2025 15:59	03/19/2025 12:03	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	**Dibenzo(a,h)anthracene**	**0.699**		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	**Dibenzofuran**	**0.334**		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0859	0.172	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**12.9**		mg/kg dry	0.538	1.07	25	EPA 8270E	03/17/2025 15:59	03/19/2025 12:03	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	**Fluorene**	**0.902**		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		

Sample Information

Client Sample ID: **SB42_0-2** **York Sample ID:** **25C0648-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:31 am	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E	mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**1.81**		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.137**		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**8.67**		mg/kg dry	0.538	1.07	25	EPA 8270E	03/17/2025 15:59	03/19/2025 12:03	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0431	0.0859	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**11.0**		mg/kg dry	0.538	1.07	25	EPA 8270E	03/17/2025 15:59	03/19/2025 12:03	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.172	0.344	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:05	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*48.1 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*47.2 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*37.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*40.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*49.1 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*57.8 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB42_0-2** **York Sample ID:** **25C0648-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:31 am	03/11/2025

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.6	1	EPA 8270D SIM	03/17/2025 09:32	03/18/2025 15:04	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*100 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00168	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00168	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00168	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00168	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00168	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	**alpha-Chlordane**	**0.00254**		mg/kg dry	0.00168	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00168	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00168	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	**Dieldrin**	**0.00351**		mg/kg dry	0.00168	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00168	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00168	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00168	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00168	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00168	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00168	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00168	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5566-34-7	**gamma-Chlordane**	**0.00327**		mg/kg dry	0.00168	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications: NELAC-NY10854,NJDEP-CT005			

Sample Information

Client Sample ID: SB42_0-2 **York Sample ID:** 25C0648-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:31 am	03/11/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-44-8	Heptachlor	ND		mg/kg dry	0.00168	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00168	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00168	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.168	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0336	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:08	SCB
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*85.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*113 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0169	1	EPA 8082A	03/18/2025 08:00	03/18/2025 16:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0169	1	EPA 8082A	03/18/2025 08:00	03/18/2025 16:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0169	1	EPA 8082A	03/18/2025 08:00	03/18/2025 16:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0169	1	EPA 8082A	03/18/2025 08:00	03/18/2025 16:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0169	1	EPA 8082A	03/18/2025 08:00	03/18/2025 16:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0169	1	EPA 8082A	03/18/2025 08:00	03/18/2025 16:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0169	1	EPA 8082A	03/18/2025 08:00	03/18/2025 16:48	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0169	1	EPA 8082A	03/18/2025 08:00	03/18/2025 16:48	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*82.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*68.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB42_0-2** **York Sample ID:** **25C0648-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:31 am	03/11/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0206	1	EPA 8151A	03/17/2025 16:02	03/18/2025 14:00	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0206	1	EPA 8151A	03/17/2025 16:02	03/18/2025 14:00	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0206	1	EPA 8151A	03/17/2025 16:02	03/18/2025 14:00	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*61.2 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8270**		mg/kg dry	4.31	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.15	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.15**		mg/kg dry	1.29	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**78.0**		mg/kg dry	2.15	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.286**		mg/kg dry	0.043	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.258	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**22200**		mg/kg dry	4.31	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**20.1**		mg/kg dry	0.431	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**7.56**		mg/kg dry	0.344	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**29.5**		mg/kg dry	1.72	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**14900**		mg/kg dry	21.5	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**46.0**		mg/kg dry	0.431	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**6360**		mg/kg dry	4.31	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**216**		mg/kg dry	0.431	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**14.2**		mg/kg dry	0.858	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB42_0-2** **York Sample ID:** **25C0648-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:31 am	03/11/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**2800**		mg/kg dry	4.31	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.15	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.434	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**189**		mg/kg dry	43.1	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.73	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**35.5**		mg/kg dry	0.858	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**63.0**		mg/kg dry	2.15	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:33	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0746**		mg/kg dry	0.0310	1	EPA 7473	03/14/2025 12:31	03/15/2025 14:01	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.517	1	EPA 7196A	03/13/2025 09:50	03/13/2025 16:25	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**20.1**		mg/kg	0.500	1	Calculation	03/17/2025 15:01	03/17/2025 15:11	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.517	1	EPA 9014/9010C	03/14/2025 14:01	03/14/2025 19:26	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB42_0-2** **York Sample ID:** **25C0648-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:31 am	03/11/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**96.7**		%	0.100	1	SM 2540G	03/12/2025 08:25	03/12/2025 12:15	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB42_5-7** **York Sample ID:** **25C0648-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:40 am	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.074	0.15	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.025**		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB42_5-7 **York Sample ID:** 25C0648-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:40 am	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.073**	ICVE	mg/kg dry	0.0074	0.015	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0074	0.015	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB42_5-7 **York Sample ID:** 25C0648-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:40 am	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0074	0.015	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0074	0.015	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB42_5-7** **York Sample ID:** **25C0648-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:40 am	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0037	0.0074	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.011	0.022	1	EPA 8260D	03/12/2025 12:00	03/13/2025 02:45	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.119	0.238	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.119	0.238	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.119	0.238	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	**2-Methylnaphthalene**	**0.167**		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB42_5-7** **York Sample ID:** **25C0648-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:40 am	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.119	0.238	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.119	0.238	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.119	0.238	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.119	0.238	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.119	0.238	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	**Acenaphthene**	**0.290**		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.0627**	J	mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.238	0.476	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**0.236**		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.238	0.476	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.926**		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB42_5-7** **York Sample ID:** **25C0648-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:40 am	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**1.52**		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.965**		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**1.16**		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.840**		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**3.80**		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.119	0.238	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**1.22**		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	**Dibenzo(a,h)anthracene**	**0.354**		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.119	0.238	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.750**		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB42_5-7** **York Sample ID:** **25C0648-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:40 am	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	**Fluorene**	**0.154**		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E	mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.758**		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.278**		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.853**		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**1.60**		mg/kg dry	0.0596	0.119	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.238	0.476	2	EPA 8270E	03/17/2025 15:59	03/18/2025 17:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*38.6 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*37.1 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*35.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*33.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*37.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*44.6 %*	*24-116*

Sample Information

Client Sample ID: SB42_5-7 **York Sample ID:** 25C0648-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:40 am	03/11/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.3	1	EPA 8270D SIM Certifications: NELAC-NY10854	03/17/2025 09:32	03/18/2025 15:34	SS

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*80.0 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.158	0.253	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0757	0.286	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.150	0.286	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.256	0.261	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.246	0.286	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND	PF-CCV-L	ug/kg dry	0.238	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.270	0.286	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.273	0.286	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.283	0.286	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.233	0.286	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.178	0.286	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.147	0.286	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.211	0.286	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.277	0.286	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.156	0.571	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.208	0.286	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM

Sample Information

Client Sample ID: SB42_5-7 **York Sample ID:** 25C0648-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:40 am	03/11/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.221	0.286	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.273	0.276	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	1.07	1.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	1.08	1.10	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.156	1.14	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.198	0.508	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/14/2025 12:29	03/16/2025 18:09	AM
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.276	0.571	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/14/2025 12:29	03/16/2025 18:09	AM
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0885	0.571	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/14/2025 12:29	03/16/2025 18:09	AM
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.137	0.571	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/14/2025 12:29	03/16/2025 18:09	AM
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.224	0.268	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.849	1.07	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.868	1.14	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
763051-92-9	* 11CL-PF3OUdS	ND	PF-CCV-L, PF-LCS-L	ug/kg dry	0.444	1.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
756426-58-1	* 9CL-PF3ONS	ND	PF-CCV-L, PF-LCS-L	ug/kg dry	0.351	1.07	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
919005-14-4	* ADONA	ND	PF-CCV-L, PF-LCS-L	ug/kg dry	0.248	1.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.241	0.277	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/14/2025 12:29	03/16/2025 18:09	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.177	0.274	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	03/14/2025 12:29	03/16/2025 18:09	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.905	1.43	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/14/2025 12:29	03/16/2025 18:09	AM

Sample Information

Client Sample ID: SB42_5-7 **York Sample ID:** 25C0648-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:40 am	03/11/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	3.00	7.14	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/14/2025 12:29	03/16/2025 18:09	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	2.14	7.14	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/14/2025 12:29	03/16/2025 18:09	AM
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.872	2.86	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/14/2025 12:29	03/16/2025 18:09	AM
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.257	0.286	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/14/2025 12:29	03/16/2025 18:09	AM
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.995	2.86	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/14/2025 12:29	03/16/2025 18:09	AM
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.283	0.286	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	03/14/2025 12:29	03/16/2025 18:09	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*120 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*105 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*108 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*111 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*109 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*108 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*98.4 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*96.3 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*74.3 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*4.08 %*	PFSu-L	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*128 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*101 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*97.4 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*104 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*105 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*107 %*		*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*114 %*		*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*92.5 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*140 %*		*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*76.5 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*85.3 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*166 %*	PFSu-H	*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*63.5 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*67.3 %*		*25-150*

Sample Information

Client Sample ID: SB42_5-7 **York Sample ID:** 25C0648-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:40 am	03/11/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00232	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00232	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00232	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		mg/kg dry	0.00232	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		mg/kg dry	0.00232	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00232	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:	NELAC-NY10854,NJDEP-CT005		
319-85-7	beta-BHC	ND		mg/kg dry	0.00232	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		mg/kg dry	0.00232	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		mg/kg dry	0.00232	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		mg/kg dry	0.00232	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00232	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854		
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00232	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		mg/kg dry	0.00232	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00232	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00232	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00232	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00232	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00232	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00232	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00232	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.232	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB42_5-7 **York Sample ID:** 25C0648-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:40 am	03/11/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0464	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:21	SCB
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*74.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*83.2 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0234	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:02	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0234	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:02	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0234	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:02	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0234	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:02	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0234	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:02	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0234	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:02	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0234	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:02	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0234	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:02	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*80.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*69.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0285	1	EPA 8151A	03/17/2025 16:02	03/19/2025 08:57	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0285	1	EPA 8151A	03/17/2025 16:02	03/19/2025 08:57	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0285	1	EPA 8151A	03/17/2025 16:02	03/19/2025 08:57	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: SB42_5-7 **York Sample ID:** 25C0648-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:40 am	03/11/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*43.2 %*			*21-150*					

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**13800**		mg/kg dry	5.96	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.98	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**16.6**		mg/kg dry	1.79	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**205**		mg/kg dry	2.98	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.358**		mg/kg dry	0.060	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.358	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**5540**		mg/kg dry	5.96	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**45.1**		mg/kg dry	0.597	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**10.8**		mg/kg dry	0.476	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**53.9**		mg/kg dry	2.38	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**33700**		mg/kg dry	29.8	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**358**		mg/kg dry	0.597	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**4300**		mg/kg dry	5.97	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**532**		mg/kg dry	0.597	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**42.0**		mg/kg dry	1.19	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**3000**		mg/kg dry	5.97	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.98	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.601	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB42_5-7 **York Sample ID:** 25C0648-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:40 am	03/11/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**255**		mg/kg dry	59.6	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.39	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**39.8**		mg/kg dry	1.19	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**287**		mg/kg dry	2.97	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:34	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.663**		mg/kg dry	0.0429	1	EPA 7473	03/14/2025 12:31	03/15/2025 14:01	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.715	1	EPA 7196A	03/13/2025 09:50	03/13/2025 16:25	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**45.1**		mg/kg	0.500	1	Calculation	03/17/2025 15:01	03/17/2025 15:11	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.715	1	EPA 9014/9010C	03/14/2025 14:01	03/14/2025 19:26	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **SB42_5-7** **York Sample ID:** **25C0648-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 10:40 am	03/11/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**69.9**		%	0.100	1	SM 2540G	03/12/2025 08:25	03/12/2025 12:15	SMM
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: **SB41_0-2** **York Sample ID:** **25C0648-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:49 am	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.052	0.10	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.020**		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB41_0-2 **York Sample ID:** 25C0648-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:49 am	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.056**	ICVE	mg/kg dry	0.0052	0.010	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0052	0.010	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB41_0-2 **York Sample ID:** 25C0648-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:49 am	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0052	0.010	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0052	0.010	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB41_0-2** **York Sample ID:** **25C0648-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:49 am	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0079	0.016	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:10	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	**1,1-Biphenyl**	**0.0511**	J	mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0888	0.177	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0888	0.177	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0888	0.177	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	**2-Methylnaphthalene**	**0.219**		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB41_0-2 **York Sample ID:** 25C0648-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:49 am	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0888	0.177	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	**3- & 4-Methylphenols**	**0.0575**	J	mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0888	0.177	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0888	0.177	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0888	0.177	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0888	0.177	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	**Acenaphthene**	**1.21**		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.908**		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.178	0.356	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	**Anthracene**	**4.68**		mg/kg dry	0.556	1.11	25	EPA 8270E	03/17/2025 15:59	03/19/2025 12:33	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.178	0.356	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**14.4**		mg/kg dry	0.556	1.11	25	EPA 8270E	03/17/2025 15:59	03/19/2025 12:33	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB41_0-2** **York Sample ID:** **25C0648-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:49 am	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**11.4**		mg/kg dry	0.556	1.11	25	EPA 8270E	03/17/2025 15:59	03/19/2025 12:33	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**9.64**		mg/kg dry	0.556	1.11	25	EPA 8270E	03/17/2025 15:59	03/19/2025 12:33	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**6.31**		mg/kg dry	0.556	1.11	25	EPA 8270E	03/17/2025 15:59	03/19/2025 12:33	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**9.74**		mg/kg dry	0.556	1.11	25	EPA 8270E	03/17/2025 15:59	03/19/2025 12:33	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0888	0.177	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	**Carbazole**	**1.64**		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**12.7**		mg/kg dry	0.556	1.11	25	EPA 8270E	03/17/2025 15:59	03/19/2025 12:33	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	**Dibenzo(a,h)anthracene**	**1.62**		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	**Dibenzofuran**	**0.769**		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0888	0.177	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**27.4**		mg/kg dry	0.556	1.11	25	EPA 8270E	03/17/2025 15:59	03/19/2025 12:33	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB41_0-2** **York Sample ID:** **25C0648-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:49 am	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	**Fluorene**	**1.60**		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E	mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**7.20**		mg/kg dry	0.556	1.11	25	EPA 8270E	03/17/2025 15:59	03/19/2025 12:33	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.309**		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**18.7**		mg/kg dry	0.556	1.11	25	EPA 8270E	03/17/2025 15:59	03/19/2025 12:33	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0445	0.0888	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**24.1**		mg/kg dry	0.556	1.11	25	EPA 8270E	03/17/2025 15:59	03/19/2025 12:33	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.178	0.356	2	EPA 8270E	03/17/2025 15:59	03/18/2025 18:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*37.2 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*35.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*30.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*31.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*35.9 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*43.0 %*	*24-116*

Sample Information

Client Sample ID: **SB41_0-2** **York Sample ID:** **25C0648-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:49 am	03/11/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.5	1	EPA 8270D SIM	03/17/2025 09:32	03/18/2025 15:49	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*90.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	**4,4'-DDD**	**0.00191**	P	mg/kg dry	0.00173	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00173	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00173	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00173	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00173	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	**alpha-Chlordane**	**0.00329**		mg/kg dry	0.00173	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00173	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00173	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	**Dieldrin**	**0.00282**		mg/kg dry	0.00173	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00173	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00173	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00173	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00173	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00173	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00173	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00173	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB41_0-2 **York Sample ID:** 25C0648-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:49 am	03/11/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	**gamma-Chlordane**	**0.00323**		mg/kg dry	0.00173	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications: NELAC-NY10854,NJDEP-CT005			
76-44-8	Heptachlor	ND		mg/kg dry	0.00173	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00173	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-43-5	Methoxychlor	ND		mg/kg dry	0.00173	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
8001-35-2	Toxaphene	ND		mg/kg dry	0.173	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0347	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:35	SCB
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*74.5 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*92.6 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0175	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:16	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0175	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:16	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0175	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:16	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0175	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:16	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0175	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:16	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0175	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:16	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0175	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:16	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0175	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:16	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*78.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*66.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB41_0-2** **York Sample ID:** **25C0648-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:49 am	03/11/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0213	1	EPA 8151A	03/17/2025 16:02	03/19/2025 09:04	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0213	1	EPA 8151A	03/17/2025 16:02	03/19/2025 09:04	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0213	1	EPA 8151A	03/17/2025 16:02	03/19/2025 09:04	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*53.2 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9760**		mg/kg dry	4.45	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.23	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**5.26**		mg/kg dry	1.34	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**114**		mg/kg dry	2.22	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.425**		mg/kg dry	0.045	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.525**		mg/kg dry	0.267	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**34100**		mg/kg dry	4.45	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**19.2**		mg/kg dry	0.445	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**6.85**		mg/kg dry	0.356	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**36.7**		mg/kg dry	1.78	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**15300**		mg/kg dry	22.3	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**304**		mg/kg dry	0.445	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**18200**		mg/kg dry	4.45	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**300**		mg/kg dry	0.445	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**19.6**		mg/kg dry	0.887	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB41_0-2** **York Sample ID:** **25C0648-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:49 am	03/11/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1370**		mg/kg dry	4.45	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.23	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.449	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**145**		mg/kg dry	44.5	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.78	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**28.2**		mg/kg dry	0.887	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**114**		mg/kg dry	2.22	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.212**		mg/kg dry	0.0320	1	EPA 7473	03/14/2025 12:31	03/15/2025 14:01	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.534	1	EPA 7196A	03/13/2025 09:50	03/13/2025 16:25	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**19.2**		mg/kg	0.500	1	Calculation	03/17/2025 15:01	03/17/2025 15:11	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.534	1	EPA 9014/9010C	03/14/2025 14:01	03/14/2025 19:26	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB41_0-2** **York Sample ID:** **25C0648-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:49 am	03/11/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**93.6**		%	0.100	1	SM 2540G	03/12/2025 08:25	03/12/2025 12:15	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB41_5-7** **York Sample ID:** **25C0648-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:55 am	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.051	0.10	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.011**		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB41_5-7 **York Sample ID:** 25C0648-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:55 am	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.031**	ICVE	mg/kg dry	0.0051	0.010	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0051	0.010	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB41_5-7 **York Sample ID:** 25C0648-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:55 am	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0051	0.010	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0051	0.010	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB41_5-7 **York Sample ID:** 25C0648-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:55 am	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0076	0.015	1	EPA 8260D	03/12/2025 12:00	03/13/2025 03:35	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.102	0.204	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.102	0.204	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.102	0.204	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB41_5-7 **York Sample ID:** 25C0648-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:55 am	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.102	0.204	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.102	0.204	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.102	0.204	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.102	0.204	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.102	0.204	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.204	0.408	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.204	0.408	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.0905**	J	mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB41_5-7** **York Sample ID:** **25C0648-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:55 am	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.0921**	J	mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.0766**	J	mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.0603**	J	mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.0831**	J	mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.102	0.204	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.0962**	J	mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.102	0.204	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.166**		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB41_5-7** **York Sample ID:** **25C0648-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:55 am	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND	CCVE	mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E, CCVE	mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.0880**	J	mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.170**		mg/kg dry	0.0511	0.102	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.204	0.408	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:10	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*65.8 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*59.8 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*53.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*55.5 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*69.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*61.5 %*	*24-116*

Sample Information

Client Sample ID: SB41_5-7 **York Sample ID:** 25C0648-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:55 am	03/11/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.0	1	EPA 8270D SIM	03/17/2025 09:32	03/18/2025 16:04	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*96.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00202	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00202	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00202	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00202	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00202	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00202	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00202	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00202	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00202	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00202	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00202	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00202	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00202	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00202	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00202	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00202	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB41_5-7 **York Sample ID:** 25C0648-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:55 am	03/11/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00202	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00202	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00202	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00202	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.202	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0405	5	EPA 8081B	03/18/2025 08:00	03/18/2025 16:48	SCB
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*70.5 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*89.6 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0204	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:30	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0204	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:30	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0204	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:30	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0204	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:30	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0204	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:30	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0204	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:30	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0204	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:30	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0204	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:30	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*71.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*60.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SB41_5-7 **York Sample ID:** 25C0648-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:55 am	03/11/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0249	1	EPA 8151A	03/17/2025 16:02	03/19/2025 09:12	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0249	1	EPA 8151A	03/17/2025 16:02	03/19/2025 09:12	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0249	1	EPA 8151A	03/17/2025 16:02	03/19/2025 09:12	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*58.8 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**15100**		mg/kg dry	5.19	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.60	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**6.79**		mg/kg dry	1.56	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**225**		mg/kg dry	2.59	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.594**		mg/kg dry	0.052	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.582**		mg/kg dry	0.312	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**9090**		mg/kg dry	5.20	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**31.3**		mg/kg dry	0.520	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**10.9**		mg/kg dry	0.415	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**68.9**		mg/kg dry	2.08	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**27100**		mg/kg dry	26.0	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**231**		mg/kg dry	0.520	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**4110**		mg/kg dry	5.20	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**602**		mg/kg dry	0.520	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**28.1**		mg/kg dry	1.03	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB41_5-7** **York Sample ID:** **25C0648-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:55 am	03/11/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**2320**		mg/kg dry	5.20	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.60	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.524	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**265**		mg/kg dry	52.0	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.08	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**44.8**		mg/kg dry	1.03	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**238**		mg/kg dry	2.59	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0853**		mg/kg dry	0.0374	1	EPA 7473	03/13/2025 12:43	03/14/2025 13:26	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.623	1	EPA 7196A	03/13/2025 09:50	03/13/2025 16:25	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**31.3**		mg/kg	0.500	1	Calculation	03/17/2025 15:01	03/17/2025 15:11	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.623	1	EPA 9014/9010C	03/14/2025 14:01	03/14/2025 19:26	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB41_5-7** **York Sample ID:** **25C0648-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 11:55 am	03/11/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**80.2**		%	0.100	1	SM 2540G	03/12/2025 08:21	03/12/2025 11:20	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB40_0-2** **York Sample ID:** **25C0648-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 12:56 pm	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.059	0.12	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB40_0-2** **York Sample ID:** **25C0648-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 12:56 pm	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.0076**	J, ICVE	mg/kg dry	0.0059	0.012	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0059	0.012	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB40_0-2 **York Sample ID:** 25C0648-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 12:56 pm	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0059	0.012	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0059	0.012	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB40_0-2** **York Sample ID:** **25C0648-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 12:56 pm	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0089	0.018	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:00	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*102 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0901	0.180	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0901	0.180	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0901	0.180	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB40_0-2** **York Sample ID:** **25C0648-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 12:56 pm	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0901	0.180	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0901	0.180	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0901	0.180	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0901	0.180	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0901	0.180	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.181	0.361	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.181	0.361	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.133**		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB40_0-2** **York Sample ID:** **25C0648-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 12:56 pm	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.133**		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.132**		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	**Benzo(g,h,i)perylene**	**0.0987**		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.115**		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0901	0.180	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.138**		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0901	0.180	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.240**		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB40_0-2** **York Sample ID:** **25C0648-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 12:56 pm	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND	CCVE	mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E, CCVE	mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.0728**	J	mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.0994**		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.218**		mg/kg dry	0.0452	0.0901	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.181	0.361	2	EPA 8270E	03/18/2025 08:45	03/19/2025 10:41	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*55.1 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*53.1 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*44.3 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*47.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*58.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*54.6 %*	*24-116*

Sample Information

Client Sample ID: **SB40_0-2** **York Sample ID:** **25C0648-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 12:56 pm	03/11/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.3	1	EPA 8270D SIM	03/17/2025 09:32	03/18/2025 16:19	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*94.0 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	**4,4'-DDD**	**0.00491**		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	**4,4'-DDE**	**0.00200**		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	**alpha-Chlordane**	**0.00179**		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: **SB40_0-2** **York Sample ID:** **25C0648-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 12:56 pm	03/11/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	**gamma-Chlordane**	**0.00202**	P	mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications: NELAC-NY10854,NJDEP-CT005			
76-44-8	Heptachlor	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-43-5	Methoxychlor	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
8001-35-2	Toxaphene	ND		mg/kg dry	0.177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0354	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:01	SCB
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*72.5 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*93.2 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0179	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:43	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0179	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:43	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0179	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:43	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0179	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:43	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0179	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:43	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0179	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:43	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0179	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:43	NF
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0179	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:43	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*78.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*61.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB40_0-2** **York Sample ID:** **25C0648-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 12:56 pm	03/11/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0215	1	EPA 8151A	03/17/2025 07:41	03/17/2025 16:04	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0215	1	EPA 8151A	03/17/2025 07:41	03/17/2025 16:04	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0215	1	EPA 8151A	03/17/2025 07:41	03/17/2025 16:04	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*79.8 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**10200**		mg/kg dry	4.55	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.27	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**6.94**		mg/kg dry	1.36	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**80.0**		mg/kg dry	2.27	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.430**		mg/kg dry	0.046	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.282**		mg/kg dry	0.273	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**6370**		mg/kg dry	4.55	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**27.7**		mg/kg dry	0.455	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**8.72**		mg/kg dry	0.364	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**35.9**		mg/kg dry	1.82	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**20500**		mg/kg dry	22.7	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**79.8**		mg/kg dry	0.455	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3680**		mg/kg dry	4.55	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**436**		mg/kg dry	0.455	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**28.2**		mg/kg dry	0.906	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB40_0-2** **York Sample ID:** **25C0648-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 12:56 pm	03/11/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1700**		mg/kg dry	4.55	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.27	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.458	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**159**		mg/kg dry	45.5	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.82	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**31.8**		mg/kg dry	0.906	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**116**		mg/kg dry	2.27	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:40	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.149**		mg/kg dry	0.0327	1	EPA 7473	03/13/2025 12:43	03/14/2025 13:26	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.546	1	EPA 7196A	03/13/2025 09:50	03/13/2025 16:25	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**27.7**		mg/kg	0.500	1	Calculation	03/17/2025 15:01	03/17/2025 15:11	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.546	1	EPA 9014/9010C	03/14/2025 14:01	03/14/2025 19:26	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB40_0-2** **York Sample ID:** **25C0648-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 12:56 pm	03/11/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.6**		%	0.100	1	SM 2540G	03/12/2025 08:21	03/12/2025 11:20	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB40_5-7** **York Sample ID:** **25C0648-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:08 pm	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.063	0.13	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.0085**		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB40_5-7 **York Sample ID:** 25C0648-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:08 pm	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.030**	ICVE	mg/kg dry	0.0063	0.013	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0063	0.013	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB40_5-7 **York Sample ID:** 25C0648-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:08 pm	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0063	0.013	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0063	0.013	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB40_5-7 **York Sample ID:** 25C0648-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:08 pm	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0032	0.0063	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0095	0.019	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:25	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.107	0.213	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.107	0.213	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.107	0.213	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB40_5-7** **York Sample ID:** **25C0648-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:08 pm	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.107	0.213	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.107	0.213	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.107	0.213	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.107	0.213	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.107	0.213	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	**Acenaphthene**	**0.487**		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.213	0.427	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.213	0.427	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB40_5-7** **York Sample ID:** **25C0648-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:08 pm	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.556**		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.107	0.213	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	Chrysene	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	**Dibenzofuran**	**0.152**		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.107	0.213	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.0733**	J	mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB40_5-7** **York Sample ID:** **25C0648-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:08 pm	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	**Fluorene**	**0.234**		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND	CCVE	mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E, CCVE	mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.334**		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.0631**	J	mg/kg dry	0.0534	0.107	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.213	0.427	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:11	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*69.6 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*66.7 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*55.7 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*54.3 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*67.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*68.6 %*	*24-116*

Sample Information

Client Sample ID: SB40_5-7 **York Sample ID:** 25C0648-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:08 pm	03/11/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.3	1	EPA 8270D SIM	03/17/2025 09:32	03/18/2025 16:34	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*110 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00208	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00208	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00208	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00208	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00208	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00208	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00208	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00208	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00208	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00208	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00208	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00208	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00208	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00208	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00208	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00208	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB40_5-7 **York Sample ID:** 25C0648-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:08 pm	03/11/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00208	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00208	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00208	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00208	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.208	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0416	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:14	SCB
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*77.4 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*90.9 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0210	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:57	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0210	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:57	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0210	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:57	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0210	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:57	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0210	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:57	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0210	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:57	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0210	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:57	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0210	1	EPA 8082A	03/18/2025 08:00	03/18/2025 17:57	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*79.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*68.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB40_5-7** **York Sample ID:** **25C0648-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:08 pm	03/11/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0252	1	EPA 8151A	03/17/2025 07:41	03/17/2025 16:11	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0252	1	EPA 8151A	03/17/2025 07:41	03/17/2025 16:11	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0252	1	EPA 8151A	03/17/2025 07:41	03/17/2025 16:11	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*80.4 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**11400**		mg/kg dry	5.34	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.67	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.12**		mg/kg dry	1.60	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**140**		mg/kg dry	2.67	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.400**		mg/kg dry	0.054	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.321	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**2950**		mg/kg dry	5.34	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**23.9**		mg/kg dry	0.535	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**8.45**		mg/kg dry	0.427	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**33.2**		mg/kg dry	2.14	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**21400**		mg/kg dry	26.7	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**32.0**		mg/kg dry	0.535	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**2760**		mg/kg dry	5.35	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**329**		mg/kg dry	0.535	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**17.9**		mg/kg dry	1.06	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB40_5-7** **York Sample ID:** **25C0648-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:08 pm	03/11/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1270**		mg/kg dry	5.35	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.67	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.539	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**179**		mg/kg dry	53.4	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.14	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**28.9**		mg/kg dry	1.06	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**114**		mg/kg dry	2.66	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:42	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.373**		mg/kg dry	0.0385	1	EPA 7473	03/13/2025 12:43	03/14/2025 13:26	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.641	1	EPA 7196A	03/13/2025 09:50	03/13/2025 16:25	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**23.9**		mg/kg	0.500	1	Calculation	03/17/2025 15:01	03/17/2025 15:11	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.641	1	EPA 9014/9010C	03/14/2025 14:01	03/14/2025 19:26	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB40_5-7** **York Sample ID:** **25C0648-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:08 pm	03/11/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**78.0**		%	0.100	1	SM 2540G	03/12/2025 08:21	03/12/2025 11:20	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB39_0-2** **York Sample ID:** **25C0648-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:42 pm	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.044	0.087	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.010**		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB39_0-2 **York Sample ID:** 25C0648-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:42 pm	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.024**	ICVE	mg/kg dry	0.0044	0.0087	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0044	0.0087	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB39_0-2 **York Sample ID:** 25C0648-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:42 pm	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0044	0.0087	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0044	0.0087	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB39_0-2 **York Sample ID:** 25C0648-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:42 pm	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0066	0.013	1	EPA 8260D	03/12/2025 12:00	03/13/2025 04:50	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0909	0.182	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB39_0-2 **York Sample ID:** 25C0648-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:42 pm	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0909	0.182	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.182	0.364	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.182	0.364	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.0756**	J	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB39_0-2** **York Sample ID:** **25C0648-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:42 pm	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.0625**	J	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.0610**	J	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	**Benzo(k)fluoranthene**	**0.0603**	J	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.0821**	J	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0909	0.182	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.204**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB39_0-2** **York Sample ID:** **25C0648-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:42 pm	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND	CCVE	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E, CCVE	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.163**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.158**		mg/kg dry	0.0456	0.0909	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.182	0.364	2	EPA 8270E	03/18/2025 08:45	03/19/2025 11:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*53.5 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*51.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*42.8 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*43.5 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*55.3 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*51.1 %*	*24-116*

Sample Information

Client Sample ID: SB39_0-2 **York Sample ID:** 25C0648-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:42 pm	03/11/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	18.5	1	EPA 8270D SIM	03/17/2025 09:32	03/18/2025 16:48	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*110 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB39_0-2 **York Sample ID:** 25C0648-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:42 pm	03/11/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.177	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0355	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:27	SCB
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*69.5 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*85.8 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0179	1	EPA 8082A	03/18/2025 08:00	03/18/2025 18:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0179	1	EPA 8082A	03/18/2025 08:00	03/18/2025 18:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0179	1	EPA 8082A	03/18/2025 08:00	03/18/2025 18:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0179	1	EPA 8082A	03/18/2025 08:00	03/18/2025 18:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0179	1	EPA 8082A	03/18/2025 08:00	03/18/2025 18:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0179	1	EPA 8082A	03/18/2025 08:00	03/18/2025 18:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0179	1	EPA 8082A	03/18/2025 08:00	03/18/2025 18:11	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0179	1	EPA 8082A	03/18/2025 08:00	03/18/2025 18:11	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*73.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*63.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: SB39_0-2 **York Sample ID:** 25C0648-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:42 pm	03/11/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0215	1	EPA 8151A	03/17/2025 07:41	03/17/2025 16:19	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0215	1	EPA 8151A	03/17/2025 07:41	03/17/2025 16:19	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0215	1	EPA 8151A	03/17/2025 07:41	03/17/2025 16:19	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*97.6 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9420**		mg/kg dry	4.56	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.28	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**5.59**		mg/kg dry	1.37	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**78.7**		mg/kg dry	2.27	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.324**		mg/kg dry	0.046	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.273	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**10100**		mg/kg dry	4.56	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**27.9**		mg/kg dry	0.456	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**8.70**		mg/kg dry	0.364	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**28.7**		mg/kg dry	1.82	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**15700**		mg/kg dry	22.8	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**161**		mg/kg dry	0.456	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**3760**		mg/kg dry	4.56	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**315**		mg/kg dry	0.456	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**42.6**		mg/kg dry	0.908	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB39_0-2** **York Sample ID:** **25C0648-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:42 pm	03/11/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**1850**		mg/kg dry	4.56	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.28	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.459	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**90.9**		mg/kg dry	45.6	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.83	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**29.8**		mg/kg dry	0.908	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**95.3**		mg/kg dry	2.27	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:43	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0328	1	EPA 7473	03/13/2025 12:43	03/14/2025 13:26	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.547	1	EPA 7196A	03/13/2025 09:50	03/13/2025 16:25	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**27.9**		mg/kg	0.500	1	Calculation	03/17/2025 15:01	03/17/2025 15:11	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.547	1	EPA 9014/9010C	03/14/2025 14:01	03/14/2025 19:26	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB39_0-2** **York Sample ID:** **25C0648-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:42 pm	03/11/2025

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.4**		%	0.100	1	SM 2540G	03/12/2025 08:21	03/12/2025 11:20	SMM
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **SB39_5-7** **York Sample ID:** **25C0648-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:49 pm	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.061	0.12	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.0096**		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **SB39_5-7** **York Sample ID:** **25C0648-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:49 pm	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.030**	ICVE	mg/kg dry	0.0061	0.012	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0061	0.012	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: SB39_5-7 **York Sample ID:** 25C0648-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:49 pm	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0061	0.012	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0061	0.012	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: SB39_5-7 **York Sample ID:** 25C0648-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:49 pm	03/11/2025

VOA, 8260 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0030	0.0061	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0091	0.018	1	EPA 8260D	03/12/2025 12:00	03/13/2025 05:15	AC
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*97.8 %*	*76-130*

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0946	0.189	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0946	0.189	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0946	0.189	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: SB39_5-7 **York Sample ID:** 25C0648-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:49 pm	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0946	0.189	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0946	0.189	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0946	0.189	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0946	0.189	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0946	0.189	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
83-32-9	Acenaphthene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		mg/kg dry	0.189	0.379	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-12-7	Anthracene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.189	0.379	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.0567**	J	mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB39_5-7** **York Sample ID:** **25C0648-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:49 pm	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	**Benzo(a)pyrene**	**0.0492**	J	mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	**Benzo(b)fluoranthene**	**0.0499**	J	mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.242**		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0946	0.189	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.0681**	J	mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		mg/kg dry	0.0946	0.189	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
206-44-0	**Fluoranthene**	**0.0968**		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB39_5-7** **York Sample ID:** **25C0648-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:49 pm	03/11/2025

SVOA, 8270 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND	CCVE	mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CAL-E, CCVE	mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.187**		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.0605**	J	mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.0983**		mg/kg dry	0.0474	0.0946	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		mg/kg dry	0.189	0.379	2	EPA 8270E	03/18/2025 08:45	03/19/2025 12:13	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*58.2 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*56.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*46.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*48.5 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*61.3 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*60.3 %*	*24-116*

Sample Information

Client Sample ID: **SB39_5-7** **York Sample ID:** **25C0648-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:49 pm	03/11/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/kg	19.8	1	EPA 8270D SIM	03/17/2025 09:32	03/18/2025 17:04	SS
							Certifications: NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*100 %*	*39-127.5*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	**4,4'-DDD**	**0.316**		mg/kg dry	0.00185	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	**4,4'-DDE**	**0.00676**		mg/kg dry	0.00185	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00185	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		mg/kg dry	0.00185	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		mg/kg dry	0.00185	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		mg/kg dry	0.00185	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications: NELAC-NY10854,NJDEP-CT005			
319-85-7	beta-BHC	ND		mg/kg dry	0.00185	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		mg/kg dry	0.00185	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		mg/kg dry	0.00185	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		mg/kg dry	0.00185	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00185	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854			
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00185	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		mg/kg dry	0.00185	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00185	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00185	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00185	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: SB39_5-7 **York Sample ID:** 25C0648-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:49 pm	03/11/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		mg/kg dry	0.00185	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications:	NELAC-NY10854,NJDEP-CT005		
76-44-8	Heptachlor	ND		mg/kg dry	0.00185	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00185	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		mg/kg dry	0.00185	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		mg/kg dry	0.185	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		mg/kg dry	0.0369	5	EPA 8081B	03/18/2025 08:00	03/18/2025 17:40	SCB
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*98.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*77.1 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0186	1	EPA 8082A	03/18/2025 08:00	03/18/2025 18:25	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0186	1	EPA 8082A	03/18/2025 08:00	03/18/2025 18:25	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0186	1	EPA 8082A	03/18/2025 08:00	03/18/2025 18:25	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0186	1	EPA 8082A	03/18/2025 08:00	03/18/2025 18:25	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0186	1	EPA 8082A	03/18/2025 08:00	03/18/2025 18:25	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0186	1	EPA 8082A	03/18/2025 08:00	03/18/2025 18:25	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0186	1	EPA 8082A	03/18/2025 08:00	03/18/2025 18:25	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0186	1	EPA 8082A	03/18/2025 08:00	03/18/2025 18:25	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*63.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*81.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **SB39_5-7** **York Sample ID:** **25C0648-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:49 pm	03/11/2025

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0225	1	EPA 8151A	03/17/2025 07:41	03/17/2025 16:26	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0225	1	EPA 8151A	03/17/2025 07:41	03/17/2025 16:26	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		mg/kg dry	0.0225	1	EPA 8151A	03/17/2025 07:41	03/17/2025 16:26	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*89.8 %*	*21-150*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7650**		mg/kg dry	4.74	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-36-0	Antimony	ND		mg/kg dry	2.37	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**5.56**		mg/kg dry	1.42	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**201**		mg/kg dry	2.37	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.327**		mg/kg dry	0.048	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.360**		mg/kg dry	0.285	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**8890**		mg/kg dry	4.74	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**24.3**		mg/kg dry	0.475	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**7.28**		mg/kg dry	0.379	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**71.4**		mg/kg dry	1.90	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**36600**		mg/kg dry	23.7	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**88.5**		mg/kg dry	0.475	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**1870**		mg/kg dry	4.75	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**574**		mg/kg dry	0.475	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**21.5**		mg/kg dry	0.945	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB39_5-7** **York Sample ID:** **25C0648-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:49 pm	03/11/2025

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**883**		mg/kg dry	4.75	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		mg/kg dry	2.37	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.478	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**172**		mg/kg dry	47.4	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	1.90	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**27.4**		mg/kg dry	0.945	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**136**		mg/kg dry	2.36	1	EPA 6010D	03/16/2025 08:34	03/17/2025 11:44	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.121**		mg/kg dry	0.0341	1	EPA 7473	03/13/2025 12:43	03/14/2025 13:26	DRS
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.569	1	EPA 7196A	03/13/2025 09:50	03/13/2025 16:25	JMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**24.3**		mg/kg	0.500	1	Calculation	03/17/2025 15:01	03/17/2025 15:11	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.569	1	EPA 9014/9010C	03/14/2025 14:01	03/14/2025 19:26	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **SB39_5-7** **York Sample ID:** **25C0648-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0648	170773001	Soil	March 11, 2025 1:49 pm	03/11/2025

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**87.9**		%	0.100	1	SM 2540G	03/12/2025 08:21	03/12/2025 11:20	SMM
							Certifications: CTDOH-PH-0723			

Analytical Batch Summary

Batch ID: BC50830 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-01	SOFB05_031125	03/11/25
BC50830-BLK1	Blank	03/11/25
BC50830-BS1	LCS	03/11/25
BC50830-DUP1	Duplicate	03/11/25
BC50830-MS1	Matrix Spike	03/11/25
BC50830-MSD1	Matrix Spike Dup	03/11/25

Batch ID: BC50850 **Preparation Method:** % Solids Prep **Prepared By:** SMM

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-07	SB41_5-7	03/12/25
25C0648-08	SB40_0-2	03/12/25
25C0648-09	SB40_5-7	03/12/25
25C0648-10	SB39_0-2	03/12/25
25C0648-11	SB39_5-7	03/12/25

Batch ID: BC50854 **Preparation Method:** % Solids Prep **Prepared By:** SMM

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-04	SB42_0-2	03/12/25
25C0648-05	SB42_5-7	03/12/25
25C0648-06	SB41_0-2	03/12/25

Batch ID: BC50886 **Preparation Method:** EPA 7473 soil **Prepared By:** DRS

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-07	SB41_5-7	03/13/25
25C0648-08	SB40_0-2	03/13/25
25C0648-09	SB40_5-7	03/13/25
25C0648-10	SB39_0-2	03/13/25
25C0648-11	SB39_5-7	03/13/25
BC50886-BLK1	Blank	03/12/25
BC50886-SRM1	Reference	03/12/25

Batch ID: BC50889 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-01	SOFB05_031125	03/12/25
BC50889-BLK1	Blank	03/12/25
BC50889-BS1	LCS	03/12/25
BC50889-DUP1	Duplicate	03/12/25
BC50889-MS1	Matrix Spike	03/12/25
BC50889-MSD1	Matrix Spike Dup	03/12/25

Batch ID: BC50912 **Preparation Method:** EPA 5030B **Prepared By:** PMB

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-01	SOFB05_031125	03/12/25
25C0648-03	SOTB05_031125	03/12/25
BC50912-BLK1	Blank	03/12/25
BC50912-BS1	LCS	03/12/25
BC50912-BSD1	LCS Dup	03/12/25

Batch ID: BC50916 **Preparation Method:** EPA 5035A **Prepared By:** AC

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-04	SB42_0-2	03/12/25
25C0648-05	SB42_5-7	03/12/25
25C0648-06	SB41_0-2	03/12/25
25C0648-07	SB41_5-7	03/12/25
25C0648-08	SB40_0-2	03/12/25
25C0648-09	SB40_5-7	03/12/25
25C0648-10	SB39_0-2	03/12/25
25C0648-11	SB39_5-7	03/12/25
BC50916-BLK1	Blank	03/12/25
BC50916-BS1	LCS	03/12/25
BC50916-BSD1	LCS Dup	03/12/25

Batch ID: BC50956 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-01	SOFB05_031125	03/13/25
BC50956-BLK1	Blank	03/13/25
BC50956-BS1	LCS	03/13/25
BC50956-DUP1	Duplicate	03/13/25
BC50956-MS1	Matrix Spike	03/13/25
BC50956-PS1	Post Spike	03/13/25

Batch ID: BC50966 **Preparation Method:** EPA SW846-3060 **Prepared By:** JAMT

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-04	SB42_0-2	03/13/25
25C0648-05	SB42_5-7	03/13/25
25C0648-06	SB41_0-2	03/13/25
25C0648-07	SB41_5-7	03/13/25
25C0648-08	SB40_0-2	03/13/25
25C0648-09	SB40_5-7	03/13/25
25C0648-10	SB39_0-2	03/13/25
25C0648-11	SB39_5-7	03/13/25
BC50966-BLK1	Blank	03/13/25
BC50966-SRM1	Reference	03/13/25

Batch ID: BC51002 **Preparation Method:** EPA 3535A **Prepared By:** NMB2

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-01	SOFB05_031125	03/13/25
BC51002-BLK1	Blank	03/13/25
BC51002-BS1	LCS	03/13/25

Batch ID: BC51029 **Preparation Method:** EPA 3015A **Prepared By:** DHD

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-01	SOFB05_031125	03/13/25
BC51029-BLK1	Blank	03/13/25
BC51029-BS1	LCS	03/13/25

Batch ID: BC51056 **Preparation Method:** EPA SW846-7470A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-01	SOFB05_031125	03/14/25
BC51056-BLK1	Blank	03/14/25
BC51056-BLK2	Blank	03/14/25
BC51056-BS1	LCS	03/14/25
BC51056-BS2	LCS	03/14/25

Batch ID: BC51094 **Preparation Method:** EPA 1633 Prep **Prepared By:** JLH

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-05	SB42_5-7	03/14/25
BC51094-BLK1	Blank	03/14/25
BC51094-BS1	LCS	03/14/25
BC51094-BS2	LCS	03/14/25

Batch ID: BC51095 **Preparation Method:** EPA 7473 soil **Prepared By:** DRS

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-04	SB42_0-2	03/14/25
25C0648-05	SB42_5-7	03/14/25
25C0648-06	SB41_0-2	03/14/25
BC51095-BLK1	Blank	03/14/25
BC51095-SRM1	Reference	03/14/25

Batch ID: BC51101 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** AJC

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-01	SOFB05_031125	03/14/25
BC51101-BLK1	Blank	03/14/25
BC51101-BS2	LCS	03/14/25

BC51101-BSD2	LCS Dup	03/14/25

Batch ID: BC51102 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** AJC

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-01	SOFB05_031125	03/14/25
BC51102-BLK1	Blank	03/14/25
BC51102-BS1	LCS	03/14/25
BC51102-BSD1	LCS Dup	03/14/25

Batch ID: BC51103 **Preparation Method:** Analysis Preparation Soil **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-04	SB42_0-2	03/14/25
25C0648-05	SB42_5-7	03/14/25
25C0648-06	SB41_0-2	03/14/25
25C0648-07	SB41_5-7	03/14/25
25C0648-08	SB40_0-2	03/14/25
25C0648-09	SB40_5-7	03/14/25
25C0648-10	SB39_0-2	03/14/25
25C0648-11	SB39_5-7	03/14/25
BC51103-BLK1	Blank	03/14/25
BC51103-DUP1	Duplicate	03/14/25
BC51103-MS1	Matrix Spike	03/14/25
BC51103-MSD1	Matrix Spike Dup	03/14/25
BC51103-SRM1	Reference	03/14/25

Batch ID: BC51136 **Preparation Method:** EPA 3510C **Prepared By:** NMB2

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-01	SOFB05_031125	03/15/25
BC51136-BLK2	Blank	03/15/25
BC51136-BS2	LCS	03/15/25

Batch ID: BC51137 **Preparation Method:** EPA 3510C **Prepared By:** NMB2

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-01	SOFB05_031125	03/15/25
BC51137-BLK1	Blank	03/15/25
BC51137-BS1	LCS	03/15/25
BC51137-BSD1	LCS Dup	03/15/25

Batch ID: BC51157 **Preparation Method:** EPA 3050B **Prepared By:** KMQ

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-04	SB42_0-2	03/16/25
25C0648-05	SB42_5-7	03/16/25
25C0648-06	SB41_0-2	03/16/25

25C0648-07	SB41_5-7	03/16/25
25C0648-08	SB40_0-2	03/16/25
25C0648-09	SB40_5-7	03/16/25
25C0648-10	SB39_0-2	03/16/25
25C0648-11	SB39_5-7	03/16/25
BC51157-BLK1	Blank	03/16/25
BC51157-SRM1	Reference	03/16/25

Batch ID: BC51163 **Preparation Method:** EPA 3550C/8151A **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-08	SB40_0-2	03/17/25
25C0648-09	SB40_5-7	03/17/25
25C0648-10	SB39_0-2	03/17/25
25C0648-11	SB39_5-7	03/17/25
BC51163-BLK1	Blank	03/17/25
BC51163-BS1	LCS	03/17/25

Batch ID: BC51190 **Preparation Method:** EPA 8151A **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-01	SOFB05_031125	03/17/25
BC51190-BLK1	Blank	03/17/25
BC51190-BS1	LCS	03/17/25

Batch ID: BC51201 **Preparation Method:** EPA 3550C **Prepared By:** JAA

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-04	SB42_0-2	03/17/25
25C0648-05	SB42_5-7	03/17/25
25C0648-06	SB41_0-2	03/17/25
25C0648-07	SB41_5-7	03/17/25
25C0648-08	SB40_0-2	03/17/25
25C0648-09	SB40_5-7	03/17/25
25C0648-10	SB39_0-2	03/17/25
25C0648-11	SB39_5-7	03/17/25
BC51201-BLK1	Blank	03/17/25
BC51201-BS1	LCS	03/17/25

Batch ID: BC51247 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-04	SB42_0-2	03/17/25
25C0648-05	SB42_5-7	03/17/25
25C0648-06	SB41_0-2	03/17/25
25C0648-07	SB41_5-7	03/17/25
25C0648-08	SB40_0-2	03/17/25
25C0648-09	SB40_5-7	03/17/25
25C0648-10	SB39_0-2	03/17/25

25C0648-11	SB39_5-7	03/17/25

Batch ID: BC51248 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-01	SOFB05_031125	03/17/25

Batch ID: BC51255 **Preparation Method:** EPA 3550C **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-04	SB42_0-2	03/18/25
25C0648-05	SB42_5-7	03/18/25
25C0648-06	SB41_0-2	03/18/25
25C0648-07	SB41_5-7	03/18/25
25C0648-08	SB40_0-2	03/18/25
25C0648-09	SB40_5-7	03/18/25
25C0648-10	SB39_0-2	03/18/25
25C0648-11	SB39_5-7	03/18/25
BC51255-BLK1	Blank	03/18/25
BC51255-BS2	LCS	03/18/25
BC51255-MS2	Matrix Spike	03/18/25
BC51255-MSD2	Matrix Spike Dup	03/18/25

Batch ID: BC51256 **Preparation Method:** EPA 3550C **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-04	SB42_0-2	03/18/25
25C0648-05	SB42_5-7	03/18/25
25C0648-06	SB41_0-2	03/18/25
25C0648-07	SB41_5-7	03/18/25
25C0648-08	SB40_0-2	03/18/25
25C0648-09	SB40_5-7	03/18/25
25C0648-10	SB39_0-2	03/18/25
25C0648-11	SB39_5-7	03/18/25
BC51256-BLK1	Blank	03/18/25
BC51256-BS1	LCS	03/18/25
BC51256-MS1	Matrix Spike	03/18/25
BC51256-MSD1	Matrix Spike Dup	03/18/25

Batch ID: BC51257 **Preparation Method:** EPA 3550C **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-04	SB42_0-2	03/17/25
25C0648-04RE1	SB42_0-2	03/17/25
25C0648-05	SB42_5-7	03/17/25
25C0648-06	SB41_0-2	03/17/25
25C0648-06RE1	SB41_0-2	03/17/25
BC51257-BLK1	Blank	03/17/25
BC51257-BS1	LCS	03/17/25

Batch ID: BC51258 **Preparation Method:** EPA 3550C/8151A **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-04	SB42_0-2	03/17/25
25C0648-05	SB42_5-7	03/17/25
25C0648-06	SB41_0-2	03/17/25
25C0648-07	SB41_5-7	03/17/25
BC51258-BLK1	Blank	03/17/25
BC51258-BS1	LCS	03/17/25

Batch ID: BC51291 **Preparation Method:** EPA 3550C **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-07	SB41_5-7	03/18/25
25C0648-08	SB40_0-2	03/18/25
25C0648-09	SB40_5-7	03/18/25
25C0648-10	SB39_0-2	03/18/25
25C0648-11	SB39_5-7	03/18/25
BC51291-BLK1	Blank	03/18/25
BC51291-BS1	LCS	03/18/25

Batch ID: BC51411 **Preparation Method:** EPA 1633 Prep **Prepared By:** JLH

YORK Sample ID	Client Sample ID	Preparation Date
25C0648-02	SOFB05_PFAS_031125	03/19/25
BC51411-BLK1	Blank	03/19/25
BC51411-BS1	LCS	03/19/25
BC51411-BS2	LCS	03/19/25

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50912 - EPA 5030B											
Blank (BC50912-BLK1) Blank									Prepared & Analyzed: 03/12/2025		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50912 - EPA 5030B											
Blank (BC50912-BLK1) Blank							Prepared & Analyzed: 03/12/2025				
n-Butylbenzene	ND	0.500	ug/L								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.5*		*"*	*10.0*		*105*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.92*		*"*	*10.0*		*99.2*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*79-122*				
LCS (BC50912-BS1) LCS							Prepared & Analyzed: 03/12/2025				
1,1,1,2-Tetrachloroethane	9.67		ug/L	10.0		96.7	82-126				
1,1,1-Trichloroethane	9.73		"	10.0		97.3	78-136				
1,1,2,2-Tetrachloroethane	10.5		"	10.0		105	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.4		"	10.0		114	54-165				
1,1,2-Trichloroethane	9.51		"	10.0		95.1	82-123				
1,1-Dichloroethane	9.28		"	10.0		92.8	82-129				
1,1-Dichloroethylene	10.4		"	10.0		104	68-138				
1,2,3-Trichlorobenzene	8.32		"	10.0		83.2	76-136				
1,2,3-Trichloropropane	10.2		"	10.0		102	77-128				
1,2,4-Trichlorobenzene	9.04		"	10.0		90.4	76-137				
1,2,4-Trimethylbenzene	10.3		"	10.0		103	82-132				
1,2-Dibromo-3-chloropropane	9.65		"	10.0		96.5	45-147				
1,2-Dibromoethane	9.65		"	10.0		96.5	83-124				
1,2-Dichlorobenzene	9.46		"	10.0		94.6	79-123				
1,2-Dichloroethane	10.0		"	10.0		100	73-132				
1,2-Dichloropropane	9.12		"	10.0		91.2	78-126				
1,3,5-Trimethylbenzene	10.2		"	10.0		102	80-131				
1,3-Dichlorobenzene	9.63		"	10.0		96.3	86-122				
1,4-Dichlorobenzene	9.62		"	10.0		96.2	85-124				
1,4-Dioxane	162		"	210		77.1	10-349				
2-Butanone	9.22		"	10.0		92.2	49-152				
2-Hexanone	9.24		"	10.0		92.4	51-146				
4-Methyl-2-pentanone	9.59		"	10.0		95.9	57-145				
Acetone	7.18		"	10.0		71.8	14-150				
Acrolein	10.5		"	10.0		105	10-153				
Acrylonitrile	10.3		"	10.0		103	51-150				
Benzene	9.79		"	10.0		97.9	85-126				
Bromochloromethane	9.64		"	10.0		96.4	77-128				
Bromodichloromethane	9.75		"	10.0		97.5	79-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50912 - EPA 5030B											
LCS (BC50912-BS1) LCS							Prepared & Analyzed: 03/12/2025				
Bromoform	10.1		ug/L	10.0		101	78-133				
Bromomethane	13.3		"	10.0		133	43-168				
Carbon disulfide	10.8		"	10.0		108	68-146				
Carbon tetrachloride	10.2		"	10.0		102	77-141				
Chlorobenzene	9.46		"	10.0		94.6	88-120				
Chloroethane	9.96		"	10.0		99.6	65-136				
Chloroform	9.69		"	10.0		96.9	82-128				
Chloromethane	10.1		"	10.0		101	43-155				
cis-1,2-Dichloroethylene	9.54		"	10.0		95.4	83-129				
cis-1,3-Dichloropropylene	9.43		"	10.0		94.3	80-131				
Cyclohexane	9.90		"	10.0		99.0	63-149				
Dibromochloromethane	9.93		"	10.0		99.3	80-130				
Dibromomethane	9.55		"	10.0		95.5	72-134				
Dichlorodifluoromethane	14.3		"	10.0		143	44-144				
Ethyl Benzene	9.57		"	10.0		95.7	80-131				
Hexachlorobutadiene	9.12		"	10.0		91.2	67-146				
Isopropylbenzene	10.1		"	10.0		101	76-140				
Methyl acetate	13.0		"	10.0		130	51-139				
Methyl tert-butyl ether (MTBE)	9.66		"	10.0		96.6	76-135				
Methylcyclohexane	9.60		"	10.0		96.0	72-143				
Methylene chloride	9.18		"	10.0		91.8	55-137				
n-Butylbenzene	10.4		"	10.0		104	79-132				
n-Propylbenzene	9.93		"	10.0		99.3	78-133				
o-Xylene	9.41		"	10.0		94.1	78-130				
p- & m- Xylenes	18.8		"	20.0		93.9	77-133				
p-Isopropyltoluene	10.5		"	10.0		105	81-136				
sec-Butylbenzene	10.0		"	10.0		100	79-137				
Styrene	10.0		"	10.0		100	67-132				
tert-Butyl alcohol (TBA)	58.0		"	50.0		116	25-162				
tert-Butylbenzene	9.94		"	10.0		99.4	77-138				
Tetrachloroethylene	5.88		"	10.0		58.8	82-131	Low Bias			
Toluene	9.38		"	10.0		93.8	80-127				
trans-1,2-Dichloroethylene	9.61		"	10.0		96.1	80-132				
trans-1,3-Dichloropropylene	9.88		"	10.0		98.8	78-131				
Trichloroethylene	9.31		"	10.0		93.1	82-128				
Trichlorofluoromethane	10.8		"	10.0		108	67-139				
Vinyl Chloride	10.2		"	10.0		102	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.85*		*"*	*10.0*		*98.5*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50912 - EPA 5030B											
LCS Dup (BC50912-BSD1) LCS Dup							Prepared & Analyzed: 03/12/2025				
1,1,1,2-Tetrachloroethane	9.70		ug/L	10.0		97.0	82-126		0.310	30	
1,1,1-Trichloroethane	9.60		"	10.0		96.0	78-136		1.35	30	
1,1,2,2-Tetrachloroethane	10.2		"	10.0		102	76-129		2.42	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1		"	10.0		111	54-165		2.84	30	
1,1,2-Trichloroethane	9.59		"	10.0		95.9	82-123		0.838	30	
1,1-Dichloroethane	9.16		"	10.0		91.6	82-129		1.30	30	
1,1-Dichloroethylene	10.1		"	10.0		101	68-138		2.34	30	
1,2,3-Trichlorobenzene	9.23		"	10.0		92.3	76-136		10.4	30	
1,2,3-Trichloropropane	9.98		"	10.0		99.8	77-128		2.67	30	
1,2,4-Trichlorobenzene	9.38		"	10.0		93.8	76-137		3.69	30	
1,2,4-Trimethylbenzene	9.91		"	10.0		99.1	82-132		3.86	30	
1,2-Dibromo-3-chloropropane	9.39		"	10.0		93.9	45-147		2.73	30	
1,2-Dibromoethane	9.73		"	10.0		97.3	83-124		0.826	30	
1,2-Dichlorobenzene	9.35		"	10.0		93.5	79-123		1.17	30	
1,2-Dichloroethane	10.0		"	10.0		100	73-132		0.00	30	
1,2-Dichloropropane	8.96		"	10.0		89.6	78-126		1.77	30	
1,3,5-Trimethylbenzene	9.69		"	10.0		96.9	80-131		4.93	30	
1,3-Dichlorobenzene	9.43		"	10.0		94.3	86-122		2.10	30	
1,4-Dichlorobenzene	9.42		"	10.0		94.2	85-124		2.10	30	
1,4-Dioxane	170		"	210		81.0	10-349		4.96	30	
2-Butanone	9.20		"	10.0		92.0	49-152		0.217	30	
2-Hexanone	9.33		"	10.0		93.3	51-146		0.969	30	
4-Methyl-2-pentanone	9.71		"	10.0		97.1	57-145		1.24	30	
Acetone	7.17		"	10.0		71.7	14-150		0.139	30	
Acrolein	10.8		"	10.0		108	10-153		3.28	30	
Acrylonitrile	10.6		"	10.0		106	51-150		2.49	30	
Benzene	9.63		"	10.0		96.3	85-126		1.65	30	
Bromochloromethane	9.64		"	10.0		96.4	77-128		0.00	30	
Bromodichloromethane	9.72		"	10.0		97.2	79-128		0.308	30	
Bromoform	10.0		"	10.0		100	78-133		0.595	30	
Bromomethane	12.8		"	10.0		128	43-168		3.74	30	
Carbon disulfide	10.7		"	10.0		107	68-146		1.12	30	
Carbon tetrachloride	10.0		"	10.0		100	77-141		2.18	30	
Chlorobenzene	9.43		"	10.0		94.3	88-120		0.318	30	
Chloroethane	9.77		"	10.0		97.7	65-136		1.93	30	
Chloroform	9.66		"	10.0		96.6	82-128		0.310	30	
Chloromethane	9.48		"	10.0		94.8	43-155		6.63	30	
cis-1,2-Dichloroethylene	9.47		"	10.0		94.7	83-129		0.736	30	
cis-1,3-Dichloropropylene	9.37		"	10.0		93.7	80-131		0.638	30	
Cyclohexane	9.53		"	10.0		95.3	63-149		3.81	30	
Dibromochloromethane	10.0		"	10.0		100	80-130		0.802	30	
Dibromomethane	9.53		"	10.0		95.3	72-134		0.210	30	
Dichlorodifluoromethane	13.4		"	10.0		134	44-144		6.56	30	
Ethyl Benzene	9.44		"	10.0		94.4	80-131		1.37	30	
Hexachlorobutadiene	8.72		"	10.0		87.2	67-146		4.48	30	
Isopropylbenzene	9.57		"	10.0		95.7	76-140		5.59	30	
Methyl acetate	12.7		"	10.0		127	51-139		2.65	30	
Methyl tert-butyl ether (MTBE)	9.66		"	10.0		96.6	76-135		0.00	30	
Methylcyclohexane	9.30		"	10.0		93.0	72-143		3.17	30	
Methylene chloride	9.12		"	10.0		91.2	55-137		0.656	30	
n-Butylbenzene	9.85		"	10.0		98.5	79-132		5.72	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50912 - EPA 5030B											
LCS Dup (BC50912-BSD1) LCS Dup								Prepared & Analyzed: 03/12/2025			
n-Propylbenzene	9.46		ug/L	10.0		94.6	78-133		4.85	30	
o-Xylene	9.32		"	10.0		93.2	78-130		0.961	30	
p- & m- Xylenes	18.5		"	20.0		92.4	77-133		1.56	30	
p-Isopropyltoluene	10.0		"	10.0		100	81-136		4.77	30	
sec-Butylbenzene	9.62		"	10.0		96.2	79-137		4.27	30	
Styrene	9.93		"	10.0		99.3	67-132		0.702	30	
tert-Butyl alcohol (TBA)	58.7		"	50.0		117	25-162		1.15	30	
tert-Butylbenzene	9.52		"	10.0		95.2	77-138		4.32	30	
Tetrachloroethylene	5.81		"	10.0		58.1	82-131	Low Bias	1.20	30	
Toluene	9.21		"	10.0		92.1	80-127		1.83	30	
trans-1,2-Dichloroethylene	9.52		"	10.0		95.2	80-132		0.941	30	
trans-1,3-Dichloropropylene	9.84		"	10.0		98.4	78-131		0.406	30	
Trichloroethylene	9.09		"	10.0		90.9	82-128		2.39	30	
Trichlorofluoromethane	10.6		"	10.0		106	67-139		1.87	30	
Vinyl Chloride	9.71		"	10.0		97.1	58-145		4.53	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.5*		*"*	*10.0*		*105*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.74*		*"*	*10.0*		*97.4*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*79-122*				
Batch BC50916 - EPA 5035A											
Blank (BC50916-BLK1) Blank								Prepared: 03/12/2025 Analyzed: 03/13/2025			
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50916 - EPA 5035A											
Blank (BC50916-BLK1) Blank									Prepared: 03/12/2025 Analyzed: 03/13/2025		
Bromoform	ND	0.0050	mg/kg wet								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*49.5*		*ug/L*	*50.0*		*99.0*	*77-125*				
Surrogate: SURR: Toluene-d8	*53.2*		*"*	*50.0*		*106*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*52.2*		*"*	*50.0*		*104*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50916 - EPA 5035A											
LCS (BC50916-BS1) LCS								Prepared: 03/12/2025 Analyzed: 03/13/2025			
1,1,1,2-Tetrachloroethane	52.4		ug/L	50.0		105	75-129				
1,1,1-Trichloroethane	49.2		"	50.0		98.4	71-137				
1,1,2,2-Tetrachloroethane	60.2		"	50.0		120	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	52.2		"	50.0		104	58-146				
1,1,2-Trichloroethane	55.8		"	50.0		112	83-123				
1,1-Dichloroethane	54.9		"	50.0		110	75-130				
1,1-Dichloroethylene	56.2		"	50.0		112	64-137				
1,2,3-Trichlorobenzene	49.3		"	50.0		98.6	81-140				
1,2,3-Trichloropropane	59.0		"	50.0		118	81-126				
1,2,4-Trichlorobenzene	48.5		"	50.0		96.9	80-141				
1,2,4-Trimethylbenzene	55.5		"	50.0		111	84-125				
1,2-Dibromo-3-chloropropane	55.2		"	50.0		110	74-142				
1,2-Dibromoethane	54.0		"	50.0		108	86-123				
1,2-Dichlorobenzene	54.4		"	50.0		109	85-122				
1,2-Dichloroethane	55.2		"	50.0		110	71-133				
1,2-Dichloropropane	57.8		"	50.0		116	81-122				
1,3,5-Trimethylbenzene	55.6		"	50.0		111	82-126				
1,3-Dichlorobenzene	52.6		"	50.0		105	84-124				
1,4-Dichlorobenzene	53.3		"	50.0		107	84-124				
1,4-Dioxane	1040		"	1050		99.5	10-228				
2-Butanone	43.0		"	50.0		85.9	58-147				
2-Hexanone	42.6		"	50.0		85.2	70-139				
4-Methyl-2-pentanone	36.3		"	50.0		72.7	72-132				
Acetone	25.8		"	50.0		51.6	36-155				
Acrolein	43.1		"	50.0		86.3	10-238				
Acrylonitrile	52.7		"	50.0		105	66-141				
Benzene	54.5		"	50.0		109	77-127				
Bromochloromethane	49.7		"	50.0		99.5	74-129				
Bromodichloromethane	58.8		"	50.0		118	81-124				
Bromoform	56.6		"	50.0		113	80-136				
Bromomethane	64.4		"	50.0		129	32-177				
Carbon disulfide	54.1		"	50.0		108	10-136				
Carbon tetrachloride	50.1		"	50.0		100	66-143				
Chlorobenzene	53.6		"	50.0		107	86-120				
Chloroethane	53.9		"	50.0		108	51-142				
Chloroform	54.6		"	50.0		109	76-131				
Chloromethane	39.6		"	50.0		79.2	49-132				
cis-1,2-Dichloroethylene	52.6		"	50.0		105	74-132				
cis-1,3-Dichloropropylene	49.0		"	50.0		98.0	81-129				
Cyclohexane	53.0		"	50.0		106	70-130				
Dibromochloromethane	58.4		"	50.0		117	10-200				
Dibromomethane	54.0		"	50.0		108	83-124				
Dichlorodifluoromethane	42.1		"	50.0		84.1	28-158				
Ethyl Benzene	56.3		"	50.0		113	84-125				
Hexachlorobutadiene	45.8		"	50.0		91.6	83-133				
Isopropylbenzene	56.8		"	50.0		114	81-127				
Methyl acetate	33.8		"	50.0		67.6	41-143				
Methyl tert-butyl ether (MTBE)	45.1		"	50.0		90.2	74-131				
Methylcyclohexane	51.7		"	50.0		103	70-130				
Methylene chloride	50.3		"	50.0		101	57-141				
n-Butylbenzene	55.9		"	50.0		112	80-130				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50916 - EPA 5035A											
LCS (BC50916-BS1) LCS								Prepared: 03/12/2025 Analyzed: 03/13/2025			
n-Propylbenzene	56.3		ug/L	50.0		113	74-136				
o-Xylene	54.2		"	50.0		108	83-123				
p- & m- Xylenes	110		"	100		110	82-128				
p-Isopropyltoluene	57.5		"	50.0		115	85-125				
sec-Butylbenzene	55.6		"	50.0		111	83-125				
Styrene	56.7		"	50.0		113	86-126				
tert-Butyl alcohol (TBA)	155		"	250		61.9	70-130	Low Bias			
tert-Butylbenzene	48.9		"	50.0		97.8	80-127				
Tetrachloroethylene	44.0		"	50.0		88.0	80-129				
Toluene	55.3		"	50.0		111	85-121				
trans-1,2-Dichloroethylene	53.2		"	50.0		106	72-132				
trans-1,3-Dichloropropylene	45.5		"	50.0		90.9	78-132				
Trichloroethylene	55.0		"	50.0		110	84-123				
Trichlorofluoromethane	50.9		"	50.0		102	62-140				
Vinyl Chloride	52.0		"	50.0		104	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.3*		*"*	*50.0*		*101*	*77-125*				
Surrogate: SURR: Toluene-d8	*52.5*		*"*	*50.0*		*105*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*51.0*		*"*	*50.0*		*102*	*76-130*				
LCS Dup (BC50916-BSD1) LCS Dup								Prepared: 03/12/2025 Analyzed: 03/13/2025			
1,1,1,2-Tetrachloroethane	53.0		ug/L	50.0		106	75-129		1.10	30	
1,1,1-Trichloroethane	48.4		"	50.0		96.9	71-137		1.54	30	
1,1,2,2-Tetrachloroethane	59.7		"	50.0		119	79-129		0.901	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51.0		"	50.0		102	58-146		2.40	30	
1,1,2-Trichloroethane	55.9		"	50.0		112	83-123		0.0179	30	
1,1-Dichloroethane	54.2		"	50.0		108	75-130		1.25	30	
1,1-Dichloroethylene	56.1		"	50.0		112	64-137		0.0534	30	
1,2,3-Trichlorobenzene	51.1		"	50.0		102	81-140		3.56	30	
1,2,3-Trichloropropane	58.5		"	50.0		117	81-126		0.852	30	
1,2,4-Trichlorobenzene	50.9		"	50.0		102	80-141		4.81	30	
1,2,4-Trimethylbenzene	56.2		"	50.0		112	84-125		1.20	30	
1,2-Dibromo-3-chloropropane	54.3		"	50.0		109	74-142		1.73	30	
1,2-Dibromoethane	54.9		"	50.0		110	86-123		1.65	30	
1,2-Dichlorobenzene	55.1		"	50.0		110	85-122		1.22	30	
1,2-Dichloroethane	53.7		"	50.0		107	71-133		2.77	30	
1,2-Dichloropropane	57.7		"	50.0		115	81-122		0.190	30	
1,3,5-Trimethylbenzene	57.5		"	50.0		115	82-126		3.24	30	
1,3-Dichlorobenzene	54.1		"	50.0		108	84-124		2.81	30	
1,4-Dichlorobenzene	53.8		"	50.0		108	84-124		1.06	30	
1,4-Dioxane	1070		"	1050		102	10-228		2.01	30	
2-Butanone	43.8		"	50.0		87.7	58-147		2.05	30	
2-Hexanone	41.0		"	50.0		82.0	70-139		3.90	30	
4-Methyl-2-pentanone	36.4		"	50.0		72.9	72-132		0.302	30	
Acetone	24.0		"	50.0		48.1	36-155		7.02	30	
Acrolein	42.4		"	50.0		84.7	10-238		1.82	30	
Acrylonitrile	53.7		"	50.0		107	66-141		1.88	30	
Benzene	54.8		"	50.0		110	77-127		0.586	30	
Bromochloromethane	49.3		"	50.0		98.5	74-129		0.950	30	
Bromodichloromethane	59.4		"	50.0		119	81-124		0.982	30	
Bromoform	55.6		"	50.0		111	80-136		1.66	30	
Bromomethane	64.8		"	50.0		130	32-177		0.573	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50916 - EPA 5035A											
LCS Dup (BC50916-BSD1) LCS Dup								Prepared: 03/12/2025 Analyzed: 03/13/2025			
Carbon disulfide	53.8		ug/L	50.0		108	10-136		0.611	30	
Carbon tetrachloride	50.0		"	50.0		100	66-143		0.320	30	
Chlorobenzene	54.5		"	50.0		109	86-120		1.52	30	
Chloroethane	54.4		"	50.0		109	51-142		0.906	30	
Chloroform	53.6		"	50.0		107	76-131		1.94	30	
Chloromethane	41.6		"	50.0		83.1	49-132		4.81	30	
cis-1,2-Dichloroethylene	51.8		"	50.0		104	74-132		1.44	30	
cis-1,3-Dichloropropylene	49.4		"	50.0		98.7	81-129		0.711	30	
Cyclohexane	50.3		"	50.0		101	70-130		5.21	30	
Dibromochloromethane	59.5		"	50.0		119	10-200		1.87	30	
Dibromomethane	54.7		"	50.0		109	83-124		1.21	30	
Dichlorodifluoromethane	40.5		"	50.0		80.9	28-158		3.90	30	
Ethyl Benzene	56.8		"	50.0		114	84-125		0.814	30	
Hexachlorobutadiene	47.2		"	50.0		94.4	83-133		2.92	30	
Isopropylbenzene	57.6		"	50.0		115	81-127		1.31	30	
Methyl acetate	34.2		"	50.0		68.3	41-143		1.03	30	
Methyl tert-butyl ether (MTBE)	45.0		"	50.0		90.0	74-131		0.222	30	
Methylcyclohexane	51.6		"	50.0		103	70-130		0.193	30	
Methylene chloride	50.0		"	50.0		100	57-141		0.419	30	
n-Butylbenzene	56.7		"	50.0		113	80-130		1.55	30	
n-Propylbenzene	57.8		"	50.0		116	74-136		2.73	30	
o-Xylene	55.1		"	50.0		110	83-123		1.59	30	
p- & m- Xylenes	110		"	100		110	82-128		0.563	30	
p-Isopropyltoluene	58.4		"	50.0		117	85-125		1.59	30	
sec-Butylbenzene	56.4		"	50.0		113	83-125		1.50	30	
Styrene	57.4		"	50.0		115	86-126		1.25	30	
tert-Butyl alcohol (TBA)	152		"	250		61.0	70-130	Low Bias	1.45	30	
tert-Butylbenzene	49.0		"	50.0		97.9	80-127		0.102	30	
Tetrachloroethylene	44.3		"	50.0		88.5	80-129		0.634	30	
Toluene	55.8		"	50.0		112	85-121		0.810	30	
trans-1,2-Dichloroethylene	53.4		"	50.0		107	72-132		0.488	30	
trans-1,3-Dichloropropylene	45.8		"	50.0		91.7	78-132		0.832	30	
Trichloroethylene	56.2		"	50.0		112	84-123		2.16	30	
Trichlorofluoromethane	49.7		"	50.0		99.4	62-140		2.45	30	
Vinyl Chloride	51.6		"	50.0		103	52-130		0.927	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*49.8*		*"*	*50.0*		*99.6*	*77-125*				
Surrogate: SURR: Toluene-d8	*52.7*		*"*	*50.0*		*105*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*51.1*		*"*	*50.0*		*102*	*76-130*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51136 - EPA 3510C											
Blank (BC51136-BLK2) Blank								Prepared & Analyzed: 03/15/2025			
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								
LCS (BC51136-BS2) LCS								Prepared & Analyzed: 03/15/2025			
Acenaphthene	1.10	0.0500	ug/L	1.25		88.0	25-116				
Acenaphthylene	1.24	0.0500	"	1.25		99.2	26-116				
Anthracene	1.19	0.0500	"	1.25		95.2	25-123				
Benzo(a)anthracene	1.25	0.0500	"	1.25		100	33-125				
Benzo(a)pyrene	1.13	0.0500	"	1.25		90.4	32-132				
Benzo(b)fluoranthene	1.10	0.0500	"	1.25		88.0	22-137				
Benzo(g,h,i)perylene	1.93	0.0500	"	1.25		154	10-138	High Bias			
Benzo(k)fluoranthene	1.15	0.0500	"	1.25		92.0	20-137				
Bis(2-ethylhexyl)phthalate	1.63	0.500	"	1.25		130	10-189				
Chrysene	1.30	0.0500	"	1.25		104	32-124				
Dibenzo(a,h)anthracene	1.88	0.0500	"	1.25		150	16-133	High Bias			
Fluoranthene	1.09	0.0500	"	1.25		87.2	32-121				
Fluorene	1.16	0.0500	"	1.25		92.8	28-118				
Hexachlorobenzene	1.39	0.0200	"	1.25		111	23-124				
Hexachlorobutadiene	1.03	0.500	"	1.25		82.4	15-123				
Hexachloroethane	5.53	0.500	"	1.25		442	18-115	High Bias			
Indeno(1,2,3-cd)pyrene	1.82	0.0500	"	1.25		146	15-135	High Bias			
Naphthalene	1.06	0.0500	"	1.25		84.8	18-120				
Nitrobenzene	0.590	0.250	"	1.25		47.2	21-121				
N-Nitrosodimethylamine	ND	0.500	"	1.25			10-124	Low Bias			
Pentachlorophenol	4.36	0.250	"	1.25		349	10-156	High Bias			
Phenanthrene	1.17	0.0500	"	1.25		93.6	24-127				
Pyrene	1.39	0.0500	"	1.25		111	31-132				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51137 - EPA 3510C											
Blank (BC51137-BLK1) Blank									Prepared & Analyzed: 03/15/2025		
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Diphenylamine	ND	5.00	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Isophorone	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Phenol	ND	5.00	"								
Pyridine	ND	5.00	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51137 - EPA 3510C											
Blank (BC51137-BLK1) Blank							Prepared & Analyzed: 03/15/2025				
Surrogate: SURR: 2-Fluorophenol	*16.5*		*ug/L*	*50.0*		*33.0*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*9.31*		*"*	*50.0*		*18.6*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*17.3*		*"*	*25.0*		*69.2*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*15.8*		*"*	*25.0*		*63.3*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*28.2*		*"*	*50.0*		*56.5*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*21.5*		*"*	*25.0*		*86.2*	*30.7-106*				
LCS (BC51137-BS1) LCS							Prepared & Analyzed: 03/15/2025				
1,1-Biphenyl	21.4	5.00	ug/L	25.0		85.8	33-95				
1,2,4,5-Tetrachlorobenzene	17.9	5.00	"	25.0		71.5	26-120				
1,2-Diphenylhydrazine (as Azobenzene)	26.5	5.00	"	25.0		106	16-141				
2,3,4,6-Tetrachlorophenol	25.7	5.00	"	25.0		103	30-130				
2,4,5-Trichlorophenol	20.0	5.00	"	25.0		80.1	32-114				
2,4,6-Trichlorophenol	21.2	5.00	"	25.0		84.8	35-118				
2,4-Dichlorophenol	24.8	5.00	"	25.0		99.1	25-116				
2,4-Dimethylphenol	25.8	5.00	"	25.0		103	15-116				
2,4-Dinitrophenol	28.2	5.00	"	25.0		113	10-170				
2,4-Dinitrotoluene	21.6	5.00	"	25.0		86.6	41-128				
2,6-Dinitrotoluene	22.5	5.00	"	25.0		89.9	45-116				
2-Chloronaphthalene	21.4	5.00	"	25.0		85.6	33-112				
2-Chlorophenol	18.7	5.00	"	25.0		75.0	15-120				
2-Methylnaphthalene	24.5	5.00	"	25.0		98.0	24-118				
2-Methylphenol	16.5	5.00	"	25.0		66.1	10-110				
2-Nitroaniline	20.7	5.00	"	25.0		83.0	34-129				
2-Nitrophenol	22.8	5.00	"	25.0		91.3	28-118				
3- & 4-Methylphenols	13.3	5.00	"	25.0		53.1	10-107				
3,3-Dichlorobenzidine	15.8	5.00	"	25.0		63.1	15-187				
3-Nitroaniline	15.4	5.00	"	25.0		61.4	24-134				
4,6-Dinitro-2-methylphenol	34.3	5.00	"	25.0		137	10-153				
4-Bromophenyl phenyl ether	21.6	5.00	"	25.0		86.2	34-120				
4-Chloro-3-methylphenol	26.8	5.00	"	25.0		107	20-120				
4-Chloroaniline	10.1	5.00	"	25.0		40.4	10-147				
4-Chlorophenyl phenyl ether	22.6	5.00	"	25.0		90.5	27-121				
4-Nitroaniline	16.2	5.00	"	25.0		65.0	13-134				
4-Nitrophenol	ND	5.00	"	25.0			10-131	Low Bias			
Acetophenone	22.7	5.00	"	25.0		90.7	25-110				
Aniline	ND	5.00	"	25.0			10-117	Low Bias			
Benzaldehyde	19.5	5.00	"	25.0		78.1	29-117				
Benzoic acid	11.2	5.00	"	25.0		44.6	30-130				
Benzyl alcohol	15.8	5.00	"	25.0		63.0	10-117				
Benzyl butyl phthalate	26.8	5.00	"	25.0		107	29-133				
Bis(2-chloroethoxy)methane	27.8	5.00	"	25.0		111	10-154				
Bis(2-chloroethyl)ether	20.0	5.00	"	25.0		79.9	17-125				
Bis(2-chloroisopropyl)ether	15.3	5.00	"	25.0		61.4	10-139				
Caprolactam	4.20	5.00	"	25.0		16.8	10-137				
Carbazole	26.6	5.00	"	25.0		107	42-126				
Dibenzofuran	23.6	5.00	"	25.0		94.3	36-113				
Diethyl phthalate	26.0	5.00	"	25.0		104	38-115				
Dimethyl phthalate	25.9	5.00	"	25.0		104	38-129				
Di-n-butyl phthalate	29.1	5.00	"	25.0		116	31-120				
Di-n-octyl phthalate	28.9	5.00	"	25.0		116	21-149				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51137 - EPA 3510C											
LCS (BC51137-BS1) LCS							Prepared & Analyzed: 03/15/2025				
Diphenylamine	29.0	5.00	ug/L	25.0		116	40-140				
Hexachlorocyclopentadiene	17.0	10.0	"	25.0		67.8	10-130				
Isophorone	32.8	5.00	"	25.0		131	25-127	High Bias			
N-nitroso-di-n-propylamine	24.4	5.00	"	25.0		97.7	26-122				
N-Nitrosodiphenylamine	26.0	5.00	"	25.0		104	23-149				
Phenol	ND	5.00	"	25.0			10-110	Low Bias			
Pyridine	ND	5.00	"	35.0			10-90	Low Bias			
Surrogate: SURR: 2-Fluorophenol	*16.8*		*"*	*50.0*		*33.5*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*10.2*		*"*	*50.0*		*20.4*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*20.3*		*"*	*25.0*		*81.2*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*15.8*		*"*	*25.0*		*63.2*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*32.6*		*"*	*50.0*		*65.3*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*19.4*		*"*	*25.0*		*77.8*	*30.7-106*				
LCS Dup (BC51137-BSD1) LCS Dup							Prepared & Analyzed: 03/15/2025				
1,1-Biphenyl	22.8	5.00	ug/L	25.0		91.2	33-95		6.15	20	
1,2,4,5-Tetrachlorobenzene	19.3	5.00	"	25.0		77.4	26-120		7.85	20	
1,2-Diphenylhydrazine (as Azobenzene)	32.0	5.00	"	25.0		128	16-141		18.9	20	
2,3,4,6-Tetrachlorophenol	27.2	5.00	"	25.0		109	30-130		5.48	20	
2,4,5-Trichlorophenol	21.5	5.00	"	25.0		85.9	32-114		7.04	20	
2,4,6-Trichlorophenol	22.7	5.00	"	25.0		90.8	35-118		6.88	20	
2,4-Dichlorophenol	27.2	5.00	"	25.0		109	25-116		9.17	20	
2,4-Dimethylphenol	28.2	5.00	"	25.0		113	15-116		8.86	20	
2,4-Dinitrophenol	30.9	5.00	"	25.0		123	10-170		9.01	20	
2,4-Dinitrotoluene	23.5	5.00	"	25.0		93.9	41-128		8.07	20	
2,6-Dinitrotoluene	24.2	5.00	"	25.0		96.6	45-116		7.16	20	
2-Chloronaphthalene	22.7	5.00	"	25.0		90.9	33-112		6.07	20	
2-Chlorophenol	18.9	5.00	"	25.0		75.8	15-120		1.06	20	
2-Methylnaphthalene	27.3	5.00	"	25.0		109	24-118		10.7	20	
2-Methylphenol	16.9	5.00	"	25.0		67.5	10-110		2.10	20	
2-Nitroaniline	22.2	5.00	"	25.0		88.7	34-129		6.67	20	
2-Nitrophenol	24.9	5.00	"	25.0		99.6	28-118		8.63	20	
3- & 4-Methylphenols	13.2	5.00	"	25.0		53.0	10-107		0.302	20	
3,3-Dichlorobenzidine	18.1	5.00	"	25.0		72.3	15-187		13.6	20	
3-Nitroaniline	15.3	5.00	"	25.0		61.4	24-134		0.130	20	
4,6-Dinitro-2-methylphenol	37.2	5.00	"	25.0		149	10-153		8.02	20	
4-Bromophenyl phenyl ether	23.8	5.00	"	25.0		95.2	34-120		9.83	20	
4-Chloro-3-methylphenol	29.4	5.00	"	25.0		118	20-120		9.26	20	
4-Chloroaniline	11.5	5.00	"	25.0		45.9	10-147		12.6	20	
4-Chlorophenyl phenyl ether	24.3	5.00	"	25.0		97.3	27-121		7.20	20	
4-Nitroaniline	17.0	5.00	"	25.0		68.1	13-134		4.63	20	
4-Nitrophenol	ND	5.00	"	25.0			10-131	Low Bias		20	
Acetophenone	23.1	5.00	"	25.0		92.6	25-110		2.01	20	
Aniline	ND	5.00	"	25.0			10-117	Low Bias		20	
Benzaldehyde	20.0	5.00	"	25.0		79.9	29-117		2.28	20	
Benzoic acid	12.2	5.00	"	25.0		48.9	30-130		9.24	20	
Benzyl alcohol	15.4	5.00	"	25.0		61.4	10-117		2.57	20	
Benzyl butyl phthalate	28.7	5.00	"	25.0		115	29-133		6.73	20	
Bis(2-chloroethoxy)methane	30.1	5.00	"	25.0		120	10-154		8.09	20	
Bis(2-chloroethyl)ether	20.2	5.00	"	25.0		81.0	17-125		1.39	20	
Bis(2-chloroisopropyl)ether	15.9	5.00	"	25.0		63.6	10-139		3.65	20	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51137 - EPA 3510C											
LCS Dup (BC51137-BSD1) LCS Dup							Prepared & Analyzed: 03/15/2025				
Caprolactam	4.63	5.00	ug/L	25.0		18.5	10-137		9.74	20	
Carbazole	27.5	5.00	"	25.0		110	42-126		3.36	20	
Dibenzofuran	24.3	5.00	"	25.0		97.2	36-113		3.05	20	
Diethyl phthalate	27.3	5.00	"	25.0		109	38-115		4.80	20	
Dimethyl phthalate	27.2	5.00	"	25.0		109	38-129		4.93	20	
Di-n-butyl phthalate	29.0	5.00	"	25.0		116	31-120		0.310	20	
Di-n-octyl phthalate	30.7	5.00	"	25.0		123	21-149		6.01	20	
Diphenylamine	31.1	5.00	"	25.0		124	40-140		6.79	20	
Hexachlorocyclopentadiene	18.6	10.0	"	25.0		74.4	10-130		9.28	20	
Isophorone	34.6	5.00	"	25.0		138	25-127	High Bias	5.40	20	
N-nitroso-di-n-propylamine	24.2	5.00	"	25.0		96.7	26-122		1.03	20	
N-Nitrosodiphenylamine	28.1	5.00	"	25.0		113	23-149		7.79	20	
Phenol	ND	5.00	"	25.0			10-110	Low Bias		20	
Pyridine	ND	5.00	"	35.0			10-90	Low Bias		20	
Surrogate: SURR: 2-Fluorophenol	*16.6*		*"*	*50.0*		*33.1*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*9.95*		*"*	*50.0*		*19.9*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*21.2*		*"*	*25.0*		*84.8*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*16.6*		*"*	*25.0*		*66.3*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*36.2*		*"*	*50.0*		*72.4*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*20.4*		*"*	*25.0*		*81.7*	*30.7-106*				
Batch BC51257 - EPA 3550C											
Blank (BC51257-BLK1) Blank							Prepared: 03/17/2025 Analyzed: 03/18/2025				
1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51257 - EPA 3550C											
Blank (BC51257-BLK1) Blank									Prepared: 03/17/2025 Analyzed: 03/18/2025		
Acenaphthene	ND	0.0416	mg/kg wet								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								
Caprolactam	ND	0.0830	"								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								
Dibenzofuran	ND	0.0416	"								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Pyridine	ND	0.166	"								
Surrogate: SURR: 2-Fluorophenol	*1.05*		*"*	*1.66*		*63.2*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.04*		*"*	*1.66*		*62.3*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.529*		*"*	*0.831*		*63.7*	*22-108*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51257 - EPA 3550C											
Blank (BC51257-BLK1) Blank								Prepared: 03/17/2025 Analyzed: 03/18/2025			
Surrogate: SURR: 2-Fluorobiphenyl	*0.455*		*mg/kg wet*	*0.831*		*54.8*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.36*		*"*	*1.66*		*81.9*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.537*		*"*	*0.831*		*64.6*	*24-116*				
LCS (BC51257-BS1) LCS								Prepared: 03/17/2025 Analyzed: 03/18/2025			
1,1-Biphenyl	0.426	0.0416	mg/kg wet	0.831		51.2	18-111				
1,2,4,5-Tetrachlorobenzene	0.432	0.0830	"	0.831		52.0	21-131				
1,2-Diphenylhydrazine (as Azobenzene)	0.535	0.0416	"	0.831		64.4	17-137				
2,3,4,6-Tetrachlorophenol	0.632	0.0830	"	0.831		76.1	30-130				
2,4,5-Trichlorophenol	0.432	0.0416	"	0.831		52.0	27-118				
2,4,6-Trichlorophenol	0.431	0.0416	"	0.831		51.9	31-120				
2,4-Dichlorophenol	0.495	0.0416	"	0.831		59.6	20-127				
2,4-Dimethylphenol	0.516	0.0416	"	0.831		62.1	14-132				
2,4-Dinitrophenol	0.492	0.0830	"	0.831		59.2	10-171				
2,4-Dinitrotoluene	0.534	0.0416	"	0.831		64.2	34-131				
2,6-Dinitrotoluene	0.488	0.0416	"	0.831		58.8	31-128				
2-Chloronaphthalene	0.418	0.0416	"	0.831		50.3	31-117				
2-Chlorophenol	0.462	0.0416	"	0.831		55.7	33-113				
2-Methylnaphthalene	0.447	0.0416	"	0.831		53.8	12-138				
2-Methylphenol	0.477	0.0416	"	0.831		57.5	10-136				
2-Nitroaniline	0.460	0.0830	"	0.831		55.4	27-132				
2-Nitrophenol	0.483	0.0416	"	0.831		58.1	17-129				
3- & 4-Methylphenols	0.409	0.0416	"	0.831		49.3	29-103				
3,3-Dichlorobenzidine	0.371	0.0416	"	0.831		44.7	22-149				
3-Nitroaniline	0.342	0.0830	"	0.831		41.1	20-133				
4,6-Dinitro-2-methylphenol	0.514	0.0830	"	0.831		61.9	10-143				
4-Bromophenyl phenyl ether	0.532	0.0416	"	0.831		64.0	29-120				
4-Chloro-3-methylphenol	0.546	0.0416	"	0.831		65.7	24-129				
4-Chloroaniline	0.208	0.0416	"	0.831		25.0	10-132				
4-Chlorophenyl phenyl ether	0.497	0.0416	"	0.831		59.9	27-124				
4-Nitroaniline	0.487	0.0830	"	0.831		58.6	16-128				
4-Nitrophenol	0.125	0.0830	"	0.831		15.0	10-141				
Acenaphthene	0.437	0.0416	"	0.831		52.6	30-121				
Acenaphthylene	0.465	0.0416	"	0.831		56.0	30-115				
Acetophenone	0.516	0.0416	"	0.831		62.2	20-112				
Aniline	0.474	0.166	"	0.831		57.1	10-119				
Anthracene	0.443	0.0416	"	0.831		53.3	34-118				
Atrazine	0.536	0.0416	"	0.831		64.6	26-112				
Benzaldehyde	0.478	0.0416	"	0.831		57.6	21-100				
Benzo(a)anthracene	0.452	0.0416	"	0.831		54.4	32-122				
Benzo(a)pyrene	0.370	0.0416	"	0.831		44.5	29-133				
Benzo(b)fluoranthene	0.389	0.0416	"	0.831		46.8	25-133				
Benzo(g,h,i)perylene	0.497	0.0416	"	0.831		59.8	10-143				
Benzo(k)fluoranthene	0.401	0.0416	"	0.831		48.2	25-128				
Benzoic acid	0.516	0.0416	"	0.831		62.1	10-140				
Benzyl alcohol	0.449	0.0416	"	0.831		54.1	30-115				
Benzyl butyl phthalate	0.517	0.0416	"	0.831		62.2	26-126				
Bis(2-chloroethoxy)methane	0.473	0.0416	"	0.831		57.0	19-132				
Bis(2-chloroethyl)ether	0.696	0.0416	"	0.831		83.8	19-125				
Bis(2-chloroisopropyl)ether	0.460	0.0416	"	0.831		55.4	20-135				
Bis(2-ethylhexyl)phthalate	0.492	0.0416	"	0.831		59.3	10-155				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51257 - EPA 3550C											
LCS (BC51257-BS1) LCS							Prepared: 03/17/2025 Analyzed: 03/18/2025				
Caprolactam	0.616	0.0830	mg/kg wet	0.831		74.2	10-127				
Carbazole	0.420	0.0416	"	0.831		50.6	35-123				
Chrysene	0.436	0.0416	"	0.831		52.4	32-123				
Dibenzo(a,h)anthracene	0.393	0.0416	"	0.831		47.3	10-136				
Dibenzofuran	0.466	0.0416	"	0.831		56.1	29-121				
Diethyl phthalate	0.518	0.0416	"	0.831		62.3	34-116				
Dimethyl phthalate	0.476	0.0416	"	0.831		57.3	35-124				
Di-n-butyl phthalate	0.477	0.0416	"	0.831		57.4	31-116				
Di-n-octyl phthalate	0.454	0.0416	"	0.831		54.7	26-136				
Diphenylamine	0.545	0.0830	"	0.831		65.6	40-140				
Fluoranthene	0.436	0.0416	"	0.831		52.4	33-122				
Fluorene	0.490	0.0416	"	0.831		59.0	29-123				
Hexachlorobenzene	0.521	0.0416	"	0.831		62.7	21-124				
Hexachlorobutadiene	0.550	0.0416	"	0.831		66.2	10-149				
Hexachlorocyclopentadiene	0.228	0.0416	"	0.831		27.4	10-129				
Hexachloroethane	0.501	0.0416	"	0.831		60.3	28-108				
Indeno(1,2,3-cd)pyrene	0.473	0.0416	"	0.831		57.0	10-135				
Isophorone	0.489	0.0416	"	0.831		58.9	20-132				
Naphthalene	0.482	0.0416	"	0.831		58.0	23-124				
Nitrobenzene	0.496	0.0416	"	0.831		59.7	13-132				
N-Nitrosodimethylamine	0.388	0.0416	"	0.831		46.8	11-129				
N-nitroso-di-n-propylamine	0.465	0.0416	"	0.831		56.0	24-119				
N-Nitrosodiphenylamine	0.538	0.0416	"	0.831		64.8	22-152				
Pentachlorophenol	0.290	0.0416	"	0.831		34.9	10-139				
Phenanthrene	0.444	0.0416	"	0.831		53.4	33-123				
Phenol	0.478	0.0416	"	0.831		57.6	23-115				
Pyrene	0.470	0.0416	"	0.831		56.6	24-130				
Pyridine	0.309	0.166	"	0.831		37.2	10-91				
Surrogate: SURR: 2-Fluorophenol	*0.895*		*"*	*1.66*		*53.9*	*20-108*				
Surrogate: SURR: Phenol-d6	*0.883*		*"*	*1.66*		*53.2*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.469*		*"*	*0.831*		*56.4*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.385*		*"*	*0.831*		*46.4*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.11*		*"*	*1.66*		*67.1*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.459*		*"*	*0.831*		*55.2*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51291 - EPA 3550C											
Blank (BC51291-BLK1) Blank									Prepared & Analyzed: 03/18/2025		
1,1-Biphenyl	ND	0.0417	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0833	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0417	"								
2,3,4,6-Tetrachlorophenol	ND	0.0833	"								
2,4,5-Trichlorophenol	ND	0.0417	"								
2,4,6-Trichlorophenol	ND	0.0417	"								
2,4-Dichlorophenol	ND	0.0417	"								
2,4-Dimethylphenol	ND	0.0417	"								
2,4-Dinitrophenol	ND	0.0833	"								
2,4-Dinitrotoluene	ND	0.0417	"								
2,6-Dinitrotoluene	ND	0.0417	"								
2-Chloronaphthalene	ND	0.0417	"								
2-Chlorophenol	ND	0.0417	"								
2-Methylnaphthalene	ND	0.0417	"								
2-Methylphenol	ND	0.0417	"								
2-Nitroaniline	ND	0.0833	"								
2-Nitrophenol	ND	0.0417	"								
3- & 4-Methylphenols	ND	0.0417	"								
3,3-Dichlorobenzidine	ND	0.0417	"								
3-Nitroaniline	ND	0.0833	"								
4,6-Dinitro-2-methylphenol	ND	0.0833	"								
4-Bromophenyl phenyl ether	ND	0.0417	"								
4-Chloro-3-methylphenol	ND	0.0417	"								
4-Chloroaniline	ND	0.0417	"								
4-Chlorophenyl phenyl ether	ND	0.0417	"								
4-Nitroaniline	ND	0.0833	"								
4-Nitrophenol	ND	0.0833	"								
Acenaphthene	ND	0.0417	"								
Acenaphthylene	ND	0.0417	"								
Acetophenone	ND	0.0417	"								
Aniline	ND	0.167	"								
Anthracene	ND	0.0417	"								
Atrazine	ND	0.0417	"								
Benzaldehyde	ND	0.0417	"								
Benzidine	ND	0.167	"								
Benzo(a)anthracene	ND	0.0417	"								
Benzo(a)pyrene	ND	0.0417	"								
Benzo(b)fluoranthene	ND	0.0417	"								
Benzo(g,h,i)perylene	ND	0.0417	"								
Benzo(k)fluoranthene	ND	0.0417	"								
Benzoic acid	ND	0.0417	"								
Benzyl alcohol	ND	0.0417	"								
Benzyl butyl phthalate	ND	0.0417	"								
Bis(2-chloroethoxy)methane	ND	0.0417	"								
Bis(2-chloroethyl)ether	ND	0.0417	"								
Bis(2-chloroisopropyl)ether	ND	0.0417	"								
Bis(2-ethylhexyl)phthalate	ND	0.0417	"								
Caprolactam	ND	0.0833	"								
Carbazole	ND	0.0417	"								
Chrysene	ND	0.0417	"								
Dibenzo(a,h)anthracene	ND	0.0417	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51291 - EPA 3550C											
Blank (BC51291-BLK1) Blank								Prepared & Analyzed: 03/18/2025			
Dibenzofuran	ND	0.0417	mg/kg wet								
Diethyl phthalate	ND	0.0417	"								
Dimethyl phthalate	ND	0.0417	"								
Di-n-butyl phthalate	ND	0.0417	"								
Di-n-octyl phthalate	ND	0.0417	"								
Diphenylamine	ND	0.0833	"								
Fluoranthene	ND	0.0417	"								
Fluorene	ND	0.0417	"								
Hexachlorobenzene	ND	0.0417	"								
Hexachlorobutadiene	ND	0.0417	"								
Hexachlorocyclopentadiene	ND	0.0417	"								
Hexachloroethane	ND	0.0417	"								
Indeno(1,2,3-cd)pyrene	ND	0.0417	"								
Isophorone	ND	0.0417	"								
Naphthalene	ND	0.0417	"								
Nitrobenzene	ND	0.0417	"								
N-Nitrosodimethylamine	ND	0.0417	"								
N-nitroso-di-n-propylamine	ND	0.0417	"								
N-Nitrosodiphenylamine	ND	0.0417	"								
Pentachlorophenol	ND	0.0417	"								
Phenanthrene	ND	0.0417	"								
Phenol	ND	0.0417	"								
Pyrene	ND	0.0417	"								
Pyridine	ND	0.167	"								
Surrogate: SURR: 2-Fluorophenol	*1.23*		*"*	*1.67*		*73.6*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.26*		*"*	*1.67*		*75.8*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.643*		*"*	*0.833*		*77.2*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.621*		*"*	*0.833*		*74.6*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.59*		*"*	*1.67*		*95.6*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.701*		*"*	*0.833*		*84.2*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51291 - EPA 3550C											
LCS (BC51291-BS1) LCS							Prepared & Analyzed: 03/18/2025				
1,1-Biphenyl	0.628	0.0417	mg/kg wet	0.833		75.3	18-111				
1,2,4,5-Tetrachlorobenzene	0.663	0.0833	"	0.833		79.6	21-131				
1,2-Diphenylhydrazine (as Azobenzene)	0.713	0.0417	"	0.833		85.5	17-137				
2,3,4,6-Tetrachlorophenol	0.938	0.0833	"	0.833		113	30-130				
2,4,5-Trichlorophenol	0.676	0.0417	"	0.833		81.1	27-118				
2,4,6-Trichlorophenol	0.679	0.0417	"	0.833		81.4	31-120				
2,4-Dichlorophenol	0.721	0.0417	"	0.833		86.5	20-127				
2,4-Dimethylphenol	0.715	0.0417	"	0.833		85.8	14-132				
2,4-Dinitrophenol	0.515	0.0833	"	0.833		61.8	10-171				
2,4-Dinitrotoluene	0.767	0.0417	"	0.833		92.0	34-131				
2,6-Dinitrotoluene	0.685	0.0417	"	0.833		82.2	31-128				
2-Chloronaphthalene	0.621	0.0417	"	0.833		74.6	31-117				
2-Chlorophenol	0.637	0.0417	"	0.833		76.5	33-113				
2-Methylnaphthalene	0.606	0.0417	"	0.833		72.8	12-138				
2-Methylphenol	0.665	0.0417	"	0.833		79.8	10-136				
2-Nitroaniline	0.671	0.0833	"	0.833		80.5	27-132				
2-Nitrophenol	0.673	0.0417	"	0.833		80.8	17-129				
3- & 4-Methylphenols	0.585	0.0417	"	0.833		70.2	29-103				
3,3-Dichlorobenzidine	0.528	0.0417	"	0.833		63.3	22-149				
3-Nitroaniline	0.457	0.0833	"	0.833		54.8	20-133				
4,6-Dinitro-2-methylphenol	0.538	0.0833	"	0.833		64.5	10-143				
4-Bromophenyl phenyl ether	0.726	0.0417	"	0.833		87.1	29-120				
4-Chloro-3-methylphenol	0.759	0.0417	"	0.833		91.1	24-129				
4-Chloroaniline	0.148	0.0417	"	0.833		17.8	10-132				
4-Chlorophenyl phenyl ether	0.727	0.0417	"	0.833		87.2	27-124				
4-Nitroaniline	0.700	0.0833	"	0.833		84.0	16-128				
4-Nitrophenol	0.173	0.0833	"	0.833		20.8	10-141				
Acenaphthene	0.610	0.0417	"	0.833		73.2	30-121				
Acenaphthylene	0.642	0.0417	"	0.833		77.0	30-115				
Acetophenone	0.719	0.0417	"	0.833		86.3	20-112				
Aniline	0.554	0.167	"	0.833		66.4	10-119				
Anthracene	0.618	0.0417	"	0.833		74.2	34-118				
Atrazine	0.712	0.0417	"	0.833		85.4	26-112				
Benzaldehyde	0.634	0.0417	"	0.833		76.0	21-100				
Benzo(a)anthracene	0.649	0.0417	"	0.833		77.9	32-122				
Benzo(a)pyrene	0.590	0.0417	"	0.833		70.8	29-133				
Benzo(b)fluoranthene	0.620	0.0417	"	0.833		74.4	25-133				
Benzo(g,h,i)perylene	0.795	0.0417	"	0.833		95.4	10-143				
Benzo(k)fluoranthene	0.616	0.0417	"	0.833		74.0	25-128				
Benzoic acid	0.794	0.0417	"	0.833		95.2	10-140				
Benzyl alcohol	0.632	0.0417	"	0.833		75.9	30-115				
Benzyl butyl phthalate	0.742	0.0417	"	0.833		89.0	26-126				
Bis(2-chloroethoxy)methane	0.655	0.0417	"	0.833		78.6	19-132				
Bis(2-chloroethyl)ether	0.812	0.0417	"	0.833		97.5	19-125				
Bis(2-chloroisopropyl)ether	0.617	0.0417	"	0.833		74.0	20-135				
Bis(2-ethylhexyl)phthalate	0.724	0.0417	"	0.833		86.9	10-155				
Caprolactam	0.855	0.0833	"	0.833		103	10-127				
Carbazole	0.585	0.0417	"	0.833		70.2	35-123				
Chrysene	0.626	0.0417	"	0.833		75.2	32-123				
Dibenzo(a,h)anthracene	0.632	0.0417	"	0.833		75.8	10-136				
Dibenzofuran	0.657	0.0417	"	0.833		78.8	29-121				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51291 - EPA 3550C											
LCS (BC51291-BS1) LCS							Prepared & Analyzed: 03/18/2025				
Diethyl phthalate	0.749	0.0417	mg/kg wet	0.833		89.8	34-116				
Dimethyl phthalate	0.670	0.0417	"	0.833		80.4	35-124				
Di-n-butyl phthalate	0.667	0.0417	"	0.833		80.0	31-116				
Di-n-octyl phthalate	0.685	0.0417	"	0.833		82.2	26-136				
Diphenylamine	0.709	0.0833	"	0.833		85.1	40-140				
Fluoranthene	0.594	0.0417	"	0.833		71.3	33-122				
Fluorene	0.707	0.0417	"	0.833		84.9	29-123				
Hexachlorobenzene	0.682	0.0417	"	0.833		81.8	21-124				
Hexachlorobutadiene	0.746	0.0417	"	0.833		89.5	10-149				
Hexachlorocyclopentadiene	0.216	0.0417	"	0.833		26.0	10-129				
Hexachloroethane	0.648	0.0417	"	0.833		77.8	28-108				
Indeno(1,2,3-cd)pyrene	0.757	0.0417	"	0.833		90.8	10-135				
Isophorone	0.670	0.0417	"	0.833		80.4	20-132				
Naphthalene	0.657	0.0417	"	0.833		78.8	23-124				
Nitrobenzene	0.690	0.0417	"	0.833		82.8	13-132				
N-Nitrosodimethylamine	0.528	0.0417	"	0.833		63.4	11-129				
N-nitroso-di-n-propylamine	0.655	0.0417	"	0.833		78.6	24-119				
N-Nitrosodiphenylamine	0.702	0.0417	"	0.833		84.2	22-152				
Pentachlorophenol	0.472	0.0417	"	0.833		56.7	10-139				
Phenanthrene	0.632	0.0417	"	0.833		75.9	33-123				
Phenol	0.655	0.0417	"	0.833		78.6	23-115				
Pyrene	0.679	0.0417	"	0.833		81.5	24-130				
Pyridine	ND	0.167	"	0.833			10-91	Low Bias			
Surrogate: SURR: 2-Fluorophenol	*1.32*		*"*	*1.67*		*79.5*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.34*		*"*	*1.67*		*80.1*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.692*		*"*	*0.833*		*83.0*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.633*		*"*	*0.833*		*76.0*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.72*		*"*	*1.67*		*103*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.731*		*"*	*0.833*		*87.8*	*24-116*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51002 - EPA 3535A											
Blank (BC51002-BLK1) Blank							Prepared: 03/13/2025 Analyzed: 03/14/2025				
1,4-Dioxane	ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8	*5.12*		*"*	*8.00*		*64.0*	*36.6-118*				
LCS (BC51002-BS1) LCS							Prepared: 03/13/2025 Analyzed: 03/14/2025				
1,4-Dioxane	3.60	0.300	ug/L	4.00		90.0	50-130				
Surrogate: 1,4-Dioxane-d8	*5.12*		*"*	*8.00*		*64.0*	*36.6-118*				
Batch BC51201 - EPA 3550C											
Blank (BC51201-BLK1) Blank							Prepared: 03/17/2025 Analyzed: 03/18/2025				
1,4-Dioxane	ND	19.8	ug/kg								
Surrogate: 1,4-Dioxane-d8	*525*		*"*	*495*		*106*	*39-127.5*				
LCS (BC51201-BS1) LCS							Prepared: 03/17/2025 Analyzed: 03/18/2025				
1,4-Dioxane	465	19.8	ug/kg	495		94.0	40-130				
Surrogate: 1,4-Dioxane-d8	*535*		*"*	*495*		*108*	*39-127.5*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51094 - EPA 1633 Prep											
Blank (BC51094-BLK1) Blank									Prepared: 03/14/2025 Analyzed: 03/16/2025		
Perfluorobutanesulfonic acid (PFBS)	ND	0.177	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.200	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.200	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.183	"								
Perfluorooctanoic acid (PFOA)	ND	0.200	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.186	"								
Perfluorononanoic acid (PFNA)	ND	0.200	"								
Perfluorodecanoic acid (PFDA)	ND	0.200	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.200	"								
Perfluorododecanoic acid (PFDoA)	ND	0.200	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.200	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.200	"								
N-MeFOSAA	ND	0.200	"								
N-EtFOSAA	ND	0.200	"								
Perfluoropentanoic acid (PFPeA)	ND	0.400	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.200	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.200	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.193	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	0.760	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	0.768	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.800	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.356	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.400	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.400	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.400	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.188	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	ND	0.750	"								
HFPO-DA (Gen-X)	ND	0.800	"								
11CL-PF3OUdS	ND	0.756	"								
9CL-PF3ONS	ND	0.748	"								
ADONA	ND	0.756	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.194	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.192	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	1.00	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	5.00	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	5.00	"								
N-MeFOSE	ND	2.00	"								
N-MeFOSA	ND	0.200	"								
N-EtFOSE	ND	2.00	"								
N-EtFOSA	ND	0.200	"								
Surrogate: M3PFBS	*2.32*		*"*	*2.33*		*99.5*	*25-150*				
Surrogate: M5PFHxA	*2.34*		*"*	*2.50*		*93.7*	*25-150*				
Surrogate: M4PFHpA	*2.30*		*"*	*2.50*		*92.1*	*25-150*				
Surrogate: M3PFHxS	*1.76*		*"*	*2.37*		*74.2*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*1.90*		*"*	*2.50*		*75.9*	*25-150*				
Surrogate: M6PFDA	*0.888*		*"*	*1.25*		*71.0*	*25-150*				
Surrogate: M7PFUdA	*0.872*		*"*	*1.25*		*69.8*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.749*		*"*	*1.25*		*59.9*	*25-150*				
Surrogate: M2PFTeDA	*0.696*		*"*	*1.25*		*55.7*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51094 - EPA 1633 Prep											
Blank (BC51094-BLK1) Blank								Prepared: 03/14/2025 Analyzed: 03/16/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*10.1*		*ug/kg wet*	*10.0*		*101*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.76*		*"*	*2.40*		*73.3*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*4.96*		*"*	*5.00*		*99.1*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.54*		*"*	*2.50*		*61.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.13*		*"*	*5.00*		*62.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*2.62*		*"*	*5.00*		*52.5*	*25-150*				
Surrogate: M2-6:2 FTS	*3.25*		*"*	*4.76*		*68.4*	*25-200*				
Surrogate: M2-8:2 FTS	*2.25*		*"*	*4.80*		*46.9*	*25-200*				
Surrogate: M9PFNA	*0.880*		*"*	*1.25*		*70.4*	*25-150*				
Surrogate: M2-4:2 FTS	*4.63*		*"*	*4.69*		*98.8*	*25-150*				
Surrogate: d-N-MeFOSA	*1.45*		*"*	*2.50*		*57.8*	*25-150*				
Surrogate: d-N-EtFOSA	*1.52*		*"*	*2.50*		*60.8*	*25-150*				
Surrogate: M3HFPO-DA	*14.2*		*"*	*10.0*		*142*	*25-150*				
Surrogate: d9-N-EtFOSE	*11.7*		*"*	*25.0*		*46.9*	*25-150*				
Surrogate: d7-N-MeFOSE	*12.3*		*"*	*25.0*		*49.2*	*25-150*				
LCS (BC51094-BS1) LCS								Prepared: 03/14/2025 Analyzed: 03/16/2025			
Perfluorobutanesulfonic acid (PFBS)	3.27	0.176	ug/kg wet	3.53		92.8	50-150				
Perfluorohexanoic acid (PFHxA)	4.21	0.199	"	3.98		106	50-150				
Perfluoroheptanoic acid (PFHpA)	3.63	0.199	"	3.98		91.1	50-150				
Perfluorohexanesulfonic acid (PFHxS)	4.15	0.182	"	3.65		114	50-150				
Perfluorooctanoic acid (PFOA)	3.85	0.199	"	3.98		96.6	50-150				
Perfluorooctanesulfonic acid (PFOS)	2.52	0.185	"	3.71		68.0	50-150				
Perfluorononanoic acid (PFNA)	3.69	0.199	"	3.98		92.7	50-150				
Perfluorodecanoic acid (PFDA)	3.23	0.199	"	3.98		81.0	50-150				
Perfluoroundecanoic acid (PFUnA)	3.67	0.199	"	3.98		92.1	50-150				
Perfluorododecanoic acid (PFDoA)	4.10	0.199	"	3.98		103	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.42	0.199	"	3.98		111	50-150				
Perfluorotetradecanoic acid (PFTA)	3.94	0.199	"	3.98		98.9	50-150				
N-MeFOSAA	3.92	0.199	"	3.98		98.3	50-150				
N-EtFOSAA	4.08	0.199	"	3.98		102	50-150				
Perfluoropentanoic acid (PFPeA)	7.83	0.398	"	7.97		98.3	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.65	0.199	"	3.98		117	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.14	0.199	"	3.80		109	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.36	0.192	"	3.84		87.4	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	15.4	0.757	"	15.1		102	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	15.0	0.765	"	15.3		98.3	50-150				
Perfluoro-n-butanoic acid (PFBA)	16.1	0.797	"	15.9		101	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.90	0.355	"	7.09		111	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	9.18	0.398	"	7.97		115	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	9.03	0.398	"	7.97		113	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	8.25	0.398	"	7.97		103	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	4.57	0.187	"	3.75		122	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	14.5	0.747	"	14.9		97.0	50-150				
HFPO-DA (Gen-X)	7.91	0.797	"	7.97		99.3	50-150				
11CL-PF3OUdS	2.42	0.753	"	7.53		32.1	50-150	Low Bias			
9CL-PF3ONS	2.69	0.745	"	7.45		36.1	50-150	Low Bias			
ADONA	4.23	0.753	"	7.53		56.2	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51094 - EPA 1633 Prep											
LCS (BC51094-BS1) LCS								Prepared: 03/14/2025 Analyzed: 03/16/2025			
Perfluorododecanesulfonic acid (PFDoS)	3.61	0.193	ug/kg wet	3.86		93.5	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	3.95	0.191	"	3.82		103	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	15.1	0.996	"	15.9		94.8	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	79.5	4.98	"	79.7		99.8	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	58.3	4.98	"	79.7		73.2	50-150				
N-MeFOSE	37.7	1.99	"	39.8		94.7	50-150				
N-MeFOSA	3.10	0.199	"	3.98		77.8	50-150				
N-EtFOSE	39.4	1.99	"	39.8		99.0	50-150				
N-EtFOSA	3.41	0.199	"	3.98		85.6	50-150				
Surrogate: M3PFBS	*2.24*		*"*	*2.32*		*96.3*	*25-150*				
Surrogate: M5PFHxA	*2.09*		*"*	*2.49*		*84.0*	*25-150*				
Surrogate: M4PFHpA	*2.13*		*"*	*2.49*		*85.7*	*25-150*				
Surrogate: M3PFHxS	*1.70*		*"*	*2.36*		*71.9*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*1.96*		*"*	*2.49*		*78.7*	*25-150*				
Surrogate: M6PFDA	*0.871*		*"*	*1.25*		*70.0*	*25-150*				
Surrogate: M7PFUdA	*0.810*		*"*	*1.25*		*65.0*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.690*		*"*	*1.25*		*55.4*	*25-150*				
Surrogate: M2PFTeDA	*0.612*		*"*	*1.25*		*49.1*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*9.08*		*"*	*9.96*		*91.1*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.44*		*"*	*2.39*		*60.3*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*4.47*		*"*	*4.98*		*89.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.23*		*"*	*2.49*		*49.3*	*10-150*				
Surrogate: d3-N-MeFOSAA	*2.49*		*"*	*4.98*		*50.0*	*25-150*				
Surrogate: d5-N-EtFOSAA	*2.08*		*"*	*4.98*		*41.7*	*25-150*				
Surrogate: M2-6:2 FTS	*2.83*		*"*	*4.74*		*59.8*	*25-200*				
Surrogate: M2-8:2 FTS	*2.19*		*"*	*4.78*		*45.9*	*25-200*				
Surrogate: M9PFNA	*0.837*		*"*	*1.25*		*67.3*	*25-150*				
Surrogate: M2-4:2 FTS	*4.72*		*"*	*4.67*		*101*	*25-150*				
Surrogate: d-N-MeFOSA	*1.48*		*"*	*2.49*		*59.5*	*25-150*				
Surrogate: d-N-EtFOSA	*1.39*		*"*	*2.49*		*55.7*	*25-150*				
Surrogate: M3HFPO-DA	*13.8*		*"*	*9.96*		*139*	*25-150*				
Surrogate: d9-N-EtFOSE	*9.65*		*"*	*24.9*		*38.7*	*25-150*				
Surrogate: d7-N-MeFOSE	*10.6*		*"*	*24.9*		*42.4*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51094 - EPA 1633 Prep											
LCS (BC51094-BS2) LCS								Prepared: 03/14/2025 Analyzed: 03/16/2025			
Perfluorobutanesulfonic acid (PFBS)	0.319	0.177	ug/kg wet	0.353		90.2	50-150				
Perfluorohexanoic acid (PFHxA)	0.365	0.200	"	0.399		91.5	50-150				
Perfluoroheptanoic acid (PFHpA)	0.360	0.200	"	0.399		90.2	50-150				
Perfluorohexanesulfonic acid (PFHxS)	0.393	0.183	"	0.365		108	50-150				
Perfluorooctanoic acid (PFOA)	0.386	0.200	"	0.399		96.7	50-150				
Perfluorooctanesulfonic acid (PFOS)	0.243	0.186	"	0.371		65.5	50-150				
Perfluorononanoic acid (PFNA)	0.423	0.200	"	0.399		106	50-150				
Perfluorodecanoic acid (PFDA)	0.312	0.200	"	0.399		78.2	50-150				
Perfluoroundecanoic acid (PFUnA)	0.417	0.200	"	0.399		104	50-150				
Perfluorododecanoic acid (PFDoA)	0.388	0.200	"	0.399		97.3	50-150				
Perfluorotridecanoic acid (PFTrDA)	0.425	0.200	"	0.399		106	50-150				
Perfluorotetradecanoic acid (PFTA)	0.408	0.200	"	0.399		102	50-150				
N-MeFOSAA	0.472	0.200	"	0.399		118	50-150				
N-EtFOSAA	0.307	0.200	"	0.399		76.9	50-150				
Perfluoropentanoic acid (PFPeA)	0.740	0.399	"	0.798		92.7	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	0.382	0.200	"	0.399		95.6	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.379	0.200	"	0.381		99.5	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	0.386	0.193	"	0.385		100	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	1.83	0.758	"	1.52		121	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	1.57	0.766	"	1.53		102	50-150				
Perfluoro-n-butanoic acid (PFBA)	1.43	0.798	"	1.60		89.4	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.730	0.355	"	0.711		103	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	0.717	0.399	"	0.798		89.8	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	0.838	0.399	"	0.798		105	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	0.742	0.399	"	0.798		93.0	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	0.438	0.188	"	0.375		117	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	1.57	0.749	"	1.50		105	50-150				
HFPO-DA (Gen-X)	0.563	0.798	"	0.798		70.5	50-150				
11CL-PF3OUdS	0.212	0.754	"	0.754		28.1	50-150	Low Bias			
9CL-PF3ONS	0.241	0.747	"	0.747		32.3	50-150	Low Bias			
ADONA	0.360	0.754	"	0.754		47.7	50-150	Low Bias			
Perfluorododecanesulfonic acid (PFDoS)	0.451	0.194	"	0.387		117	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	0.316	0.192	"	0.383		82.4	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	1.46	0.998	"	1.60		91.7	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	6.83	4.99	"	7.98		85.5	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	5.14	4.99	"	7.98		64.4	50-150				
N-MeFOSE	3.63	2.00	"	3.99		90.8	50-150				
N-MeFOSA	0.403	0.200	"	0.399		101	50-150				
N-EtFOSE	3.69	2.00	"	3.99		92.5	50-150				
N-EtFOSA	0.471	0.200	"	0.399		118	50-150				
Surrogate: M3PFBS	*2.26*		*"*	*2.33*		*97.3*	*25-150*				
Surrogate: M5PFHxA	*2.37*		*"*	*2.50*		*95.0*	*25-150*				
Surrogate: M4PFHpA	*2.11*		*"*	*2.50*		*84.5*	*25-150*				
Surrogate: M3PFHxS	*1.64*		*"*	*2.37*		*69.2*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*1.82*		*"*	*2.50*		*73.0*	*25-150*				
Surrogate: M6PFDA	*0.785*		*"*	*1.25*		*62.9*	*25-150*				
Surrogate: M7PFUdA	*0.711*		*"*	*1.25*		*57.0*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.725*		*"*	*1.25*		*58.1*	*25-150*				
Surrogate: M2PFTeDA	*0.567*		*"*	*1.25*		*45.4*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51094 - EPA 1633 Prep											
LCS (BC51094-BS2) LCS								Prepared: 03/14/2025 Analyzed: 03/16/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*9.72*		*ug/kg wet*	*9.98*		*97.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.40*		*"*	*2.39*		*58.5*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*5.12*		*"*	*4.99*		*103*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.39*		*"*	*2.50*		*55.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*2.43*		*"*	*4.99*		*48.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*2.14*		*"*	*4.99*		*42.9*	*25-150*				
Surrogate: M2-6:2 FTS	*2.13*		*"*	*4.75*		*44.9*	*25-200*				
Surrogate: M2-8:2 FTS	*1.87*		*"*	*4.79*		*39.0*	*25-200*				
Surrogate: M9PFNA	*0.717*		*"*	*1.25*		*57.5*	*25-150*				
Surrogate: M2-4:2 FTS	*4.06*		*"*	*4.68*		*86.8*	*25-150*				
Surrogate: d-N-MeFOSA	*1.08*		*"*	*2.50*		*43.3*	*25-150*				
Surrogate: d-N-EtFOSA	*1.11*		*"*	*2.50*		*44.3*	*25-150*				
Surrogate: M3HFPO-DA	*15.2*		*"*	*9.98*		*152*	*25-150*				
Surrogate: d9-N-EtFOSE	*10.8*		*"*	*25.0*		*43.3*	*25-150*				
Surrogate: d7-N-MeFOSE	*11.7*		*"*	*25.0*		*46.9*	*25-150*				
Batch BC51411 - EPA 1633 Prep											
Blank (BC51411-BLK1) Blank								Prepared: 03/19/2025 Analyzed: 03/20/2025			
Perfluorobutanesulfonic acid (PFBS)	ND	1.77	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.83	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	1.86	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	4.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.91	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.93	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	7.60	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	7.68	"								
Perfluoro-n-butanoic acid (PFBA)	ND	8.00	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.56	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	4.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	4.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	4.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.88	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	ND	7.50	"								
HFPO-DA (Gen-X)	ND	8.00	"								
11CL-PF3OUdS	ND	7.56	"								

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51411 - EPA 1633 Prep											
Blank (BC51411-BLK1) Blank								Prepared: 03/19/2025 Analyzed: 03/20/2025			
9CL-PF3ONS	ND	7.48	ng/L								
ADONA	ND	7.56	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	1.94	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.92	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	5.00	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	25.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	25.0	"								
N-MeFOSE	ND	20.0	"								
N-MeFOSA	ND	2.00	"								
N-EtFOSE	ND	20.0	"								
N-EtFOSA	ND	2.00	"								
Surrogate: M3PFBS	*30.5*		*"*	*23.3*		*131*	*25-150*				
Surrogate: M5PFHxA	*29.6*		*"*	*25.0*		*118*	*25-150*				
Surrogate: M4PFHpA	*29.8*		*"*	*25.0*		*119*	*25-150*				
Surrogate: M3PFHxS	*31.5*		*"*	*23.7*		*133*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*33.1*		*"*	*25.0*		*132*	*25-150*				
Surrogate: M6PFDA	*15.5*		*"*	*12.5*		*124*	*25-150*				
Surrogate: M7PFUdA	*15.6*		*"*	*12.5*		*125*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*14.5*		*"*	*12.5*		*116*	*25-150*				
Surrogate: M2PFTeDA	*11.9*		*"*	*12.5*		*95.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*11.6*		*"*	*100*		*11.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*27.4*		*"*	*24.0*		*114*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*41.1*		*"*	*50.0*		*82.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*29.9*		*"*	*25.0*		*120*	*10-150*				
Surrogate: d3-N-MeFOSAA	*57.3*		*"*	*50.0*		*115*	*25-150*				
Surrogate: d5-N-EtFOSAA	*54.6*		*"*	*50.0*		*109*	*25-150*				
Surrogate: M2-6:2 FTS	*57.6*		*"*	*47.6*		*121*	*25-200*				
Surrogate: M2-8:2 FTS	*51.6*		*"*	*48.0*		*107*	*25-200*				
Surrogate: M9PFNA	*16.4*		*"*	*12.5*		*131*	*25-150*				
Surrogate: M2-4:2 FTS	*53.4*		*"*	*46.9*		*114*	*25-150*				
Surrogate: d-N-MeFOSA	*31.9*		*"*	*25.0*		*128*	*25-150*				
Surrogate: d-N-EtFOSA	*36.9*		*"*	*25.0*		*148*	*25-150*				
Surrogate: M3HFPO-DA	*86.4*		*"*	*100*		*86.4*	*25-150*				
Surrogate: d9-N-EtFOSE	*339*		*"*	*250*		*135*	*25-150*				
Surrogate: d7-N-MeFOSE	*310*		*"*	*250*		*124*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51411 - EPA 1633 Prep											
LCS (BC51411-BS1) LCS								Prepared: 03/19/2025 Analyzed: 03/20/2025			
Perfluorobutanesulfonic acid (PFBS)	36.5	1.77	ng/L	35.4		103	50-150				
Perfluorohexanoic acid (PFHxA)	41.8	2.00	"	40.0		105	50-150				
Perfluoroheptanoic acid (PFHpA)	44.4	2.00	"	40.0		111	50-150				
Perfluorohexanesulfonic acid (PFHxS)	37.4	1.83	"	36.6		102	50-150				
Perfluorooctanoic acid (PFOA)	38.4	2.00	"	40.0		95.9	50-150				
Perfluorooctanesulfonic acid (PFOS)	40.7	1.86	"	37.2		109	50-150				
Perfluorononanoic acid (PFNA)	42.7	2.00	"	40.0		107	50-150				
Perfluorodecanoic acid (PFDA)	39.8	2.00	"	40.0		99.6	50-150				
Perfluoroundecanoic acid (PFUnA)	43.9	2.00	"	40.0		110	50-150				
Perfluorododecanoic acid (PFDoA)	39.4	2.00	"	40.0		98.6	50-150				
Perfluorotridecanoic acid (PFTrDA)	48.0	2.00	"	40.0		120	50-150				
Perfluorotetradecanoic acid (PFTA)	42.6	2.00	"	40.0		107	50-150				
N-MeFOSAA	39.5	2.00	"	40.0		98.8	50-150				
N-EtFOSAA	43.7	2.00	"	40.0		109	50-150				
Perfluoropentanoic acid (PFPeA)	82.1	4.00	"	80.0		103	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	46.0	2.00	"	40.0		115	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	40.3	1.91	"	38.2		105	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	35.8	1.93	"	38.6		92.8	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	156	7.60	"	152		103	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	170	7.68	"	154		111	50-150				
Perfluoro-n-butanoic acid (PFBA)	148	8.00	"	160		92.7	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	82.7	3.56	"	71.2		116	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	89.4	4.00	"	80.0		112	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	25.1	4.00	"	80.0		31.4	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	109	4.00	"	80.0		136	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	39.7	1.88	"	37.6		106	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	159	7.50	"	150		106	50-150				
HFPO-DA (Gen-X)	84.7	8.00	"	80.0		106	50-150				
11CL-PF3OUdS	105	7.56	"	75.6		139	50-150				
9CL-PF3ONS	112	7.48	"	74.8		149	50-150				
ADONA	113	7.56	"	75.6		150	50-150				
Perfluorododecanesulfonic acid (PFDoS)	36.3	1.94	"	38.8		93.5	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	45.9	1.92	"	38.4		119	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	144	5.00	"	160		90.1	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	1070	25.0	"	800		133	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	994	25.0	"	800		124	50-150				
N-MeFOSE	436	20.0	"	400		109	50-150				
N-MeFOSA	40.2	2.00	"	40.0		101	50-150				
N-EtFOSE	430	20.0	"	400		108	50-150				
N-EtFOSA	40.6	2.00	"	40.0		101	50-150				
Surrogate: M3PFBS	*24.8*		*"*	*23.3*		*106*	*25-150*				
Surrogate: M5PFHxA	*24.2*		*"*	*25.0*		*96.8*	*25-150*				
Surrogate: M4PFHpA	*24.6*		*"*	*25.0*		*98.3*	*25-150*				
Surrogate: M3PFHxS	*26.0*		*"*	*23.7*		*110*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*27.9*		*"*	*25.0*		*112*	*25-150*				
Surrogate: M6PFDA	*13.6*		*"*	*12.5*		*109*	*25-150*				
Surrogate: M7PFUdA	*13.7*		*"*	*12.5*		*109*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*14.3*		*"*	*12.5*		*114*	*25-150*				
Surrogate: M2PFTeDA	*12.0*		*"*	*12.5*		*96.1*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51411 - EPA 1633 Prep											
LCS (BC51411-BS1) LCS								Prepared: 03/19/2025 Analyzed: 03/20/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*9.86*		*ng/L*	*100*		*9.86*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*22.7*		*"*	*24.0*		*94.9*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*33.4*		*"*	*50.0*		*66.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*22.9*		*"*	*25.0*		*91.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*46.9*		*"*	*50.0*		*93.8*	*25-150*				
Surrogate: d5-N-EtFOSAA	*41.5*		*"*	*50.0*		*83.0*	*25-150*				
Surrogate: M2-6:2 FTS	*46.7*		*"*	*47.6*		*98.3*	*25-200*				
Surrogate: M2-8:2 FTS	*44.1*		*"*	*48.0*		*91.9*	*25-200*				
Surrogate: M9PFNA	*12.9*		*"*	*12.5*		*103*	*25-150*				
Surrogate: M2-4:2 FTS	*45.4*		*"*	*46.9*		*96.7*	*25-150*				
Surrogate: d-N-MeFOSA	*30.4*		*"*	*25.0*		*122*	*25-150*				
Surrogate: d-N-EtFOSA	*26.2*		*"*	*25.0*		*105*	*25-150*				
Surrogate: M3HFPO-DA	*73.7*		*"*	*100*		*73.7*	*25-150*				
Surrogate: d9-N-EtFOSE	*248*		*"*	*250*		*99.3*	*25-150*				
Surrogate: d7-N-MeFOSE	*256*		*"*	*250*		*103*	*25-150*				
LCS (BC51411-BS2) LCS								Prepared: 03/19/2025 Analyzed: 03/20/2025			
Perfluorobutanesulfonic acid (PFBS)	3.17	1.77	ng/L	3.54		89.4	50-150				
Perfluorohexanoic acid (PFHxA)	3.72	2.00	"	4.00		92.9	50-150				
Perfluoroheptanoic acid (PFHpA)	4.61	2.00	"	4.00		115	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.34	1.83	"	3.66		91.3	50-150				
Perfluorooctanoic acid (PFOA)	3.40	2.00	"	4.00		85.1	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.48	1.86	"	3.72		93.6	50-150				
Perfluorononanoic acid (PFNA)	3.46	2.00	"	4.00		86.5	50-150				
Perfluorodecanoic acid (PFDA)	3.63	2.00	"	4.00		90.8	50-150				
Perfluoroundecanoic acid (PFUnA)	3.83	2.00	"	4.00		95.8	50-150				
Perfluorododecanoic acid (PFDoA)	3.65	2.00	"	4.00		91.2	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.08	2.00	"	4.00		102	50-150				
Perfluorotetradecanoic acid (PFTA)	4.35	2.00	"	4.00		109	50-150				
N-MeFOSAA	3.66	2.00	"	4.00		91.6	50-150				
N-EtFOSAA	4.30	2.00	"	4.00		108	50-150				
Perfluoropentanoic acid (PFPeA)	7.73	4.00	"	8.00		96.6	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.64	2.00	"	4.00		116	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.82	1.91	"	3.82		100	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.19	1.93	"	3.86		82.7	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	13.3	7.60	"	15.2		87.6	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	14.9	7.68	"	15.4		96.8	50-150				
Perfluoro-n-butanoic acid (PFBA)	11.8	8.00	"	16.0		73.8	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.41	3.56	"	7.12		104	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	11.5	4.00	"	8.00		144	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.10	4.00	"	8.00		13.7	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	11.0	4.00	"	8.00		138	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	3.48	1.88	"	3.76		92.6	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	13.9	7.50	"	15.0		92.4	50-150				
HFPO-DA (Gen-X)	9.26	8.00	"	8.00		116	50-150				
11CL-PF3OUdS	12.8	7.56	"	7.56		170	50-150	High Bias			
9CL-PF3ONS	12.2	7.48	"	7.48		163	50-150	High Bias			
ADONA	13.1	7.56	"	7.56		174	50-150	High Bias			

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51411 - EPA 1633 Prep											
LCS (BC51411-BS2) LCS								Prepared: 03/19/2025 Analyzed: 03/20/2025			
Perfluorododecanesulfonic acid (PFDoS)	2.90	1.94	ng/L	3.88		74.7	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	4.18	1.92	"	3.84		109	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	6.88	5.00	"	16.0		43.0	50-150	Low Bias			
3-Perfluoropentyl propanoic acid (FPePA)	70.6	25.0	"	80.0		88.2	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	66.5	25.0	"	80.0		83.2	50-150				
N-MeFOSE	37.0	20.0	"	40.0		92.4	50-150				
N-MeFOSA	4.36	2.00	"	4.00		109	50-150				
N-EtFOSE	35.9	20.0	"	40.0		89.8	50-150				
N-EtFOSA	2.88	2.00	"	4.00		72.0	50-150				
Surrogate: M3PFBS	*27.1*		*"*	*23.3*		*116*	*25-150*				
Surrogate: M5PFHxA	*27.2*		*"*	*25.0*		*109*	*25-150*				
Surrogate: M4PFHpA	*25.9*		*"*	*25.0*		*104*	*25-150*				
Surrogate: M3PFHxS	*28.6*		*"*	*23.7*		*121*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*29.3*		*"*	*25.0*		*117*	*25-150*				
Surrogate: M6PFDA	*15.1*		*"*	*12.5*		*121*	*25-150*				
Surrogate: M7PFUdA	*16.1*		*"*	*12.5*		*129*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*14.9*		*"*	*12.5*		*119*	*25-150*				
Surrogate: M2PFTeDA	*12.7*		*"*	*12.5*		*101*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.12*		*"*	*100*		*4.12*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*25.4*		*"*	*24.0*		*106*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*29.8*		*"*	*50.0*		*59.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*26.1*		*"*	*25.0*		*104*	*10-150*				
Surrogate: d3-N-MeFOSAA	*53.2*		*"*	*50.0*		*106*	*25-150*				
Surrogate: d5-N-EtFOSAA	*48.9*		*"*	*50.0*		*97.8*	*25-150*				
Surrogate: M2-6:2 FTS	*49.5*		*"*	*47.6*		*104*	*25-200*				
Surrogate: M2-8:2 FTS	*47.6*		*"*	*48.0*		*99.1*	*25-200*				
Surrogate: M9PFNA	*15.3*		*"*	*12.5*		*122*	*25-150*				
Surrogate: M2-4:2 FTS	*46.5*		*"*	*46.9*		*99.2*	*25-150*				
Surrogate: d-N-MeFOSA	*34.7*		*"*	*25.0*		*139*	*25-150*				
Surrogate: d-N-EtFOSA	*29.7*		*"*	*25.0*		*119*	*25-150*				
Surrogate: M3HFPO-DA	*73.8*		*"*	*100*		*73.8*	*25-150*				
Surrogate: d9-N-EtFOSE	*295*		*"*	*250*		*118*	*25-150*				
Surrogate: d7-N-MeFOSE	*292*		*"*	*250*		*117*	*25-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51102 - EPA SW846-3510C Low Level											
Blank (BC51102-BLK1) Blank							Prepared: 03/14/2025 Analyzed: 03/16/2025				
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Chlordane, total	ND	0.200	"								
Surrogate: Decachlorobiphenyl	*0.165*		*"*	*0.200*		*82.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.149*		*"*	*0.200*		*74.7*	*30-150*				
LCS (BC51102-BS1) LCS							Prepared: 03/14/2025 Analyzed: 03/16/2025				
4,4'-DDD	0.0757	0.00400	ug/L	0.100		75.7	40-140			20	
4,4'-DDE	0.0715	0.00400	"	0.100		71.5	40-140			20	
4,4'-DDT	0.0854	0.00400	"	0.100		85.4	40-140			20	
Aldrin	0.0705	0.00400	"	0.100		70.5	40-140			20	
alpha-BHC	0.0652	0.00400	"	0.100		65.2	40-140			20	
alpha-Chlordane	0.0707	0.00400	"	0.100		70.7	40-140			20	
beta-BHC	0.0695	0.00400	"	0.100		69.5	40-140			20	
delta-BHC	0.0547	0.00400	"	0.100		54.7	40-140			20	
Dieldrin	0.0726	0.00200	"	0.100		72.6	40-140			20	
Endosulfan I	0.0766	0.00400	"	0.100		76.6	40-140			20	
Endosulfan II	0.0862	0.00400	"	0.100		86.2	40-140			20	
Endosulfan sulfate	0.0743	0.00400	"	0.100		74.3	40-140			20	
Endrin	0.0825	0.00400	"	0.100		82.5	40-140			20	
Endrin aldehyde	0.0887	0.0100	"	0.100		88.7	40-140			20	
Endrin ketone	0.0799	0.0100	"	0.100		79.9	40-140			20	
gamma-BHC (Lindane)	0.0667	0.00400	"	0.100		66.7	40-140			20	
gamma-Chlordane	0.0707	0.0100	"	0.100		70.7	40-140			20	
Heptachlor	0.0726	0.00400	"	0.100		72.6	40-140			20	
Heptachlor epoxide	0.0739	0.00400	"	0.100		73.9	40-140			20	
Methoxychlor	0.0778	0.00400	"	0.100		77.8	40-140			20	
Surrogate: Decachlorobiphenyl	*0.131*		*"*	*0.200*		*65.5*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.136*		*"*	*0.200*		*68.0*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51102 - EPA SW846-3510C Low Level											
LCS Dup (BC51102-BSD1) LCS Dup								Prepared: 03/14/2025 Analyzed: 03/16/2025			
4,4'-DDD	0.104	0.00400	ug/L	0.100		104	40-140		31.2	20	Non-dir.
4,4'-DDE	0.0987	0.00400	"	0.100		98.7	40-140		32.0	20	Non-dir.
4,4'-DDT	0.117	0.00400	"	0.100		117	40-140		31.3	20	Non-dir.
Aldrin	0.0981	0.00400	"	0.100		98.1	40-140		32.7	20	Non-dir.
alpha-BHC	0.0891	0.00400	"	0.100		89.1	40-140		30.9	20	Non-dir.
alpha-Chlordane	0.0966	0.00400	"	0.100		96.6	40-140		31.0	20	Non-dir.
beta-BHC	0.0971	0.00400	"	0.100		97.1	40-140		33.2	20	Non-dir.
delta-BHC	0.0751	0.00400	"	0.100		75.1	40-140		31.4	20	Non-dir.
Dieldrin	0.0975	0.00200	"	0.100		97.5	40-140		29.3	20	Non-dir.
Endosulfan I	0.108	0.00400	"	0.100		108	40-140		33.9	20	Non-dir.
Endosulfan II	0.119	0.00400	"	0.100		119	40-140		31.9	20	Non-dir.
Endosulfan sulfate	0.102	0.00400	"	0.100		102	40-140		31.3	20	Non-dir.
Endrin	0.114	0.00400	"	0.100		114	40-140		32.4	20	Non-dir.
Endrin aldehyde	0.120	0.0100	"	0.100		120	40-140		30.1	20	Non-dir.
Endrin ketone	0.112	0.0100	"	0.100		112	40-140		33.8	20	Non-dir.
gamma-BHC (Lindane)	0.0892	0.00400	"	0.100		89.2	40-140		28.8	20	Non-dir.
gamma-Chlordane	0.0968	0.0100	"	0.100		96.8	40-140		31.2	20	Non-dir.
Heptachlor	0.102	0.00400	"	0.100		102	40-140		33.2	20	Non-dir.
Heptachlor epoxide	0.102	0.00400	"	0.100		102	40-140		31.5	20	Non-dir.
Methoxychlor	0.109	0.00400	"	0.100		109	40-140		33.6	20	Non-dir.
Surrogate: Decachlorobiphenyl	*0.189*		*"*	*0.200*		*94.7*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.188*		*"*	*0.200*		*93.9*	*30-150*				
Batch BC51256 - EPA 3550C											
Blank (BC51256-BLK1) Blank								Prepared & Analyzed: 03/18/2025			
4,4'-DDD	ND	0.00164	mg/kg wet								
4,4'-DDE	ND	0.00164	"								
4,4'-DDT	ND	0.00164	"								
Aldrin	ND	0.00164	"								
alpha-BHC	ND	0.00164	"								
alpha-Chlordane	ND	0.00164	"								
beta-BHC	ND	0.00164	"								
delta-BHC	ND	0.00164	"								
Dieldrin	ND	0.00164	"								
Endosulfan I	ND	0.00164	"								
Endosulfan II	ND	0.00164	"								
Endosulfan sulfate	ND	0.00164	"								
Endrin	ND	0.00164	"								
Endrin aldehyde	ND	0.00164	"								
Endrin ketone	ND	0.00164	"								
gamma-BHC (Lindane)	ND	0.00164	"								
gamma-Chlordane	ND	0.00164	"								
Heptachlor	ND	0.00164	"								
Heptachlor epoxide	ND	0.00164	"								
Methoxychlor	ND	0.00164	"								
Toxaphene	ND	0.164	"								
Chlordane, total	ND	0.0329	"								
Surrogate: Decachlorobiphenyl	*0.0515*		*"*	*0.0664*		*77.6*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0678*		*"*	*0.0664*		*102*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51256 - EPA 3550C											
LCS (BC51256-BS1) LCS							Prepared & Analyzed: 03/18/2025				
4,4'-DDD	0.0400	0.00164	mg/kg wet	0.0332		120	40-140				
4,4'-DDE	0.0415	0.00164	"	0.0332		125	40-140				
4,4'-DDT	0.0423	0.00164	"	0.0332		127	40-140				
Aldrin	0.0390	0.00164	"	0.0332		117	40-140				
alpha-BHC	0.0407	0.00164	"	0.0332		122	40-140				
alpha-Chlordane	0.0412	0.00164	"	0.0332		124	40-140				
beta-BHC	0.0400	0.00164	"	0.0332		120	40-140				
delta-BHC	0.0346	0.00164	"	0.0332		104	40-140				
Dieldrin	0.0408	0.00164	"	0.0332		123	40-140				
Endosulfan I	0.0416	0.00164	"	0.0332		125	40-140				
Endosulfan II	0.0423	0.00164	"	0.0332		127	40-140				
Endosulfan sulfate	0.0396	0.00164	"	0.0332		119	40-140				
Endrin	0.0424	0.00164	"	0.0332		128	40-140				
Endrin aldehyde	0.0447	0.00164	"	0.0332		135	40-140				
Endrin ketone	0.0398	0.00164	"	0.0332		120	40-140				
gamma-BHC (Lindane)	0.0405	0.00164	"	0.0332		122	40-140				
gamma-Chlordane	0.0410	0.00164	"	0.0332		124	40-140				
Heptachlor	0.0423	0.00164	"	0.0332		127	40-140				
Heptachlor epoxide	0.0422	0.00164	"	0.0332		127	40-140				
Methoxychlor	0.0396	0.00164	"	0.0332		119	40-140				
Surrogate: Decachlorobiphenyl	*0.0546*		*"*	*0.0664*		*82.2*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0662*		*"*	*0.0664*		*99.6*	*30-150*				
Matrix Spike (BC51256-MS1) Matrix Spike *Source sample: 25C0648-09 (SB40_5-7)							Prepared & Analyzed: 03/18/2025				
4,4'-DDD	0.0458	0.00211	mg/kg dry	0.0426	ND	107	30-150				
4,4'-DDE	0.0467	0.00211	"	0.0426	ND	109	30-150				
4,4'-DDT	0.0465	0.00211	"	0.0426	ND	109	30-150				
Aldrin	0.0389	0.00211	"	0.0426	ND	91.3	30-150				
alpha-BHC	0.0676	0.00211	"	0.0426	ND	159	30-150	High Bias			
alpha-Chlordane	0.0464	0.00211	"	0.0426	ND	109	30-150				
beta-BHC	0.0416	0.00211	"	0.0426	ND	97.7	30-150				
delta-BHC	0.0374	0.00211	"	0.0426	ND	87.7	30-150				
Dieldrin	0.0473	0.00211	"	0.0426	ND	111	30-150				
Endosulfan I	0.0470	0.00211	"	0.0426	ND	110	30-150				
Endosulfan II	0.0482	0.00211	"	0.0426	ND	113	30-150				
Endosulfan sulfate	0.0448	0.00211	"	0.0426	ND	105	30-150				
Endrin	0.0487	0.00211	"	0.0426	ND	114	30-150				
Endrin aldehyde	0.0515	0.00211	"	0.0426	ND	121	30-150				
Endrin ketone	0.0456	0.00211	"	0.0426	ND	107	30-150				
gamma-BHC (Lindane)	0.0531	0.00211	"	0.0426	ND	125	30-150				
gamma-Chlordane	0.0449	0.00211	"	0.0426	ND	105	30-150				
Heptachlor	0.0414	0.00211	"	0.0426	ND	97.2	30-150				
Heptachlor epoxide	0.0466	0.00211	"	0.0426	ND	109	30-150				
Methoxychlor	0.0421	0.00211	"	0.0426	ND	98.8	30-150				
Surrogate: Decachlorobiphenyl	*0.0708*		*"*	*0.0852*		*83.1*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0733*		*"*	*0.0852*		*86.1*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51256 - EPA 3550C											
Matrix Spike Dup (BC51256-M Matrix Spike Dup	*Source sample: 25C0648-09 (SB40_5-7)							Prepared & Analyzed: 03/18/2025			
4,4'-DDD	0.0465	0.00211	mg/kg dry	0.0426	ND	109	30-150		1.56	30	
4,4'-DDE	0.0474	0.00211	"	0.0426	ND	111	30-150		1.67	30	
4,4'-DDT	0.0463	0.00211	"	0.0426	ND	109	30-150		0.321	30	
Aldrin	0.0406	0.00211	"	0.0426	ND	95.2	30-150		4.18	30	
alpha-BHC	0.0482	0.00211	"	0.0426	ND	113	30-150		33.5	30	Non-dir.
alpha-Chlordane	0.0466	0.00211	"	0.0426	ND	109	30-150		0.376	30	
beta-BHC	0.0440	0.00211	"	0.0426	ND	103	30-150		5.67	30	
delta-BHC	0.0373	0.00211	"	0.0426	ND	87.4	30-150		0.308	30	
Dieldrin	0.0464	0.00211	"	0.0426	ND	109	30-150		1.92	30	
Endosulfan I	0.0472	0.00211	"	0.0426	ND	111	30-150		0.435	30	
Endosulfan II	0.0485	0.00211	"	0.0426	ND	114	30-150		0.476	30	
Endosulfan sulfate	0.0459	0.00211	"	0.0426	ND	108	30-150		2.24	30	
Endrin	0.0480	0.00211	"	0.0426	ND	113	30-150		1.43	30	
Endrin aldehyde	0.0512	0.00211	"	0.0426	ND	120	30-150		0.697	30	
Endrin ketone	0.0465	0.00211	"	0.0426	ND	109	30-150		2.03	30	
gamma-BHC (Lindane)	0.0464	0.00211	"	0.0426	ND	109	30-150		13.6	30	
gamma-Chlordane	0.0457	0.00211	"	0.0426	ND	107	30-150		1.84	30	
Heptachlor	0.0438	0.00211	"	0.0426	ND	103	30-150		5.68	30	
Heptachlor epoxide	0.0477	0.00211	"	0.0426	ND	112	30-150		2.35	30	
Methoxychlor	0.0418	0.00211	"	0.0426	ND	98.2	30-150		0.670	30	
Surrogate: Decachlorobiphenyl	*0.0655*		*"*	*0.0852*		*76.8*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0720*		*"*	*0.0852*		*84.5*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51101 - EPA SW846-3510C Low Level											
Blank (BC51101-BLK1) Blank							Prepared: 03/14/2025 Analyzed: 03/17/2025				
Aroclor 1016 [2C]	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.137*		*"*	*0.200*		*68.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.186*		*"*	*0.200*		*93.0*	*30-120*				
LCS (BC51101-BS2) LCS							Prepared: 03/14/2025 Analyzed: 03/17/2025				
Aroclor 1016 [2C]	0.543	0.0500	ug/L	1.00		54.3	40-120				
Aroclor 1260	0.688	0.0500	"	1.00		68.8	40-120				
Surrogate: Tetrachloro-m-xylene	*0.123*		*"*	*0.200*		*61.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.175*		*"*	*0.200*		*87.5*	*30-120*				
LCS Dup (BC51101-BSD2) LCS Dup							Prepared: 03/14/2025 Analyzed: 03/17/2025				
Aroclor 1016 [2C]	0.531	0.0500	ug/L	1.00		53.1	40-120		2.23	30	
Aroclor 1260	0.654	0.0500	"	1.00		65.4	40-120		5.04	30	
Surrogate: Tetrachloro-m-xylene	*0.118*		*"*	*0.200*		*59.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.160*		*"*	*0.200*		*80.0*	*30-120*				
Batch BC51255 - EPA 3550C											
Blank (BC51255-BLK1) Blank							Prepared & Analyzed: 03/18/2025				
Aroclor 1016 [2C]	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260 [2C]	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	*0.0485*		*"*	*0.0664*		*73.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0472*		*"*	*0.0664*		*71.0*	*30-120*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51255 - EPA 3550C											
LCS (BC51255-BS2) LCS							Prepared & Analyzed: 03/18/2025				
Aroclor 1016 [2C]	0.318	0.0166	mg/kg wet	0.332		95.7	40-130				
Aroclor 1260 [2C]	0.350	0.0166	"	0.332		105	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0522*		*"*	*0.0664*		*78.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0522*		*"*	*0.0664*		*78.5*	*30-120*				
Matrix Spike (BC51255-MS2) Matrix Spike *Source sample: 25C0648-09 (SB40_5-7)							Prepared & Analyzed: 03/18/2025				
Aroclor 1016	0.389	0.0213	mg/kg dry	0.426	ND	91.2	40-140				
Aroclor 1260	0.370	0.0213	"	0.426	ND	86.9	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0660*		*"*	*0.0852*		*77.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0605*		*"*	*0.0852*		*71.0*	*30-120*				
Matrix Spike Dup (BC51255-M Matrix Spike Dup *Source sample: 25C0648-09 (SB40_5-7)							Prepared & Analyzed: 03/18/2025				
Aroclor 1016	0.378	0.0213	mg/kg dry	0.426	ND	88.8	40-140		2.69	50	
Aroclor 1260	0.367	0.0213	"	0.426	ND	86.2	40-140		0.762	50	
Surrogate: Tetrachloro-m-xylene	*0.0643*		*"*	*0.0852*		*75.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0618*		*"*	*0.0852*		*72.5*	*30-120*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51163 - EPA 3550C/8151A											
Blank (BC51163-BLK1) Blank							Prepared & Analyzed: 03/17/2025				
2,4,5-T	ND	0.0199	mg/kg wet								
2,4,5-TP (Silvex)	ND	0.0199	"								
2,4-D	ND	0.0199	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.326*		*"*	*0.415*		*78.6*	*21-150*				
LCS (BC51163-BS1) LCS							Prepared & Analyzed: 03/17/2025				
2,4,5-T	0.0581	0.0199	mg/kg wet	0.0664		87.5	10-120				
2,4,5-TP (Silvex)	0.0573	0.0199	"	0.0664		86.2	10-120				
2,4-D	0.0548	0.0199	"	0.0664		82.5	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.453*		*"*	*0.415*		*109*	*21-150*				
Batch BC51190 - EPA 8151A											
Blank (BC51190-BLK1) Blank							Prepared & Analyzed: 03/17/2025				
2,4,5-T	ND	5.00	ug/L								
2,4,5-TP (Silvex)	ND	5.00	"								
2,4-D	ND	5.00	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*110*		*"*	*125*		*88.2*	*30-150*				
LCS (BC51190-BS1) LCS							Prepared & Analyzed: 03/17/2025				
2,4,5-T	16.0	5.00	ug/L	20.0		80.0	10-140				
2,4,5-TP (Silvex)	14.5	5.00	"	20.0		72.5	10-139				
2,4-D	14.2	5.00	"	20.0		71.2	10-140				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*98.5*		*"*	*125*		*78.8*	*30-150*				
Batch BC51258 - EPA 3550C/8151A											
Blank (BC51258-BLK1) Blank							Prepared: 03/17/2025 Analyzed: 03/18/2025				
2,4,5-T	ND	0.0199	mg/kg wet								
2,4,5-TP (Silvex)	ND	0.0199	"								
2,4-D	ND	0.0199	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.400*		*"*	*0.415*		*96.4*	*21-150*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51258 - EPA 3550C/8151A											
LCS (BC51258-BS1) LCS								Prepared: 03/17/2025 Analyzed: 03/18/2025			
2,4,5-T	0.0606	0.0199	mg/kg wet	0.0664		91.2	10-120				
2,4,5-TP (Silvex)	0.0648	0.0199	"	0.0664		97.5	10-120				
2,4-D	0.0548	0.0199	"	0.0664		82.5	10-118				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*0.376*		*"*	*0.415*		*90.6*	*21-150*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50956 - EPA 3015A											
Blank (BC50956-BLK1) Blank								Prepared & Analyzed: 03/13/2025			
Aluminum	ND	0.0556	mg/L								
Barium	ND	0.0278	"								
Calcium	ND	0.0556	"								
Chromium	ND	0.00556	"								
Cobalt	ND	0.00444	"								
Copper	ND	0.0222	"								
Iron	ND	0.278	"								
Lead	ND	0.00556	"								
Magnesium	ND	0.0556	"								
Manganese	ND	0.00556	"								
Nickel	ND	0.0111	"								
Potassium	ND	0.0556	"								
Silver	ND	0.00556	"								
Sodium	ND	0.556	"								
Vanadium	ND	0.0111	"								
Zinc	ND	0.0278	"								
LCS (BC50956-BS1) LCS								Prepared & Analyzed: 03/13/2025			
Aluminum	1.91		ug/mL	2.00		95.3	80-120				
Barium	2.11		"	2.00		105	80-120				
Calcium	1.90		"	1.00		190	80-120	High Bias			
Chromium	0.210		"	0.200		105	80-120				
Cobalt	0.529		"	0.500		106	80-120				
Copper	0.265		"	0.250		106	80-120				
Iron	1.05		"	1.00		105	80-120				
Lead	0.522		"	0.500		104	80-120				
Magnesium	1.00		"	1.00		100	80-120				
Manganese	0.523		"	0.500		105	80-120				
Nickel	0.533		"	0.500		107	80-120				
Potassium	0.949		"	1.00		94.9	80-120				
Silver	0.0484		"	0.0500		96.8	80-120				
Sodium	1.19		"	1.00		119	80-120				
Vanadium	0.510		"	0.500		102	80-120				
Zinc	0.555		"	0.500		111	80-120				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Batch BC50956 - EPA 3015A

Duplicate (BC50956-DUP1) Duplicate *Source sample: 25C0648-01 (SOFB05_031125) Prepared & Analyzed: 03/13/2025

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Aluminum	ND	0.0556	mg/L		ND					20	
Barium	0.0450	0.0278	"		0.0449				0.247	20	
Calcium	2.40	0.0556	"		1.47				48.0	20	Non-dir.
Chromium	ND	0.00556	"		ND					20	
Cobalt	ND	0.00444	"		ND					20	
Copper	ND	0.0222	"		ND					20	
Iron	ND	0.278	"		ND					20	
Lead	ND	0.00556	"		ND					20	
Magnesium	0.152	0.0556	"		0.142				6.50	20	
Manganese	ND	0.00556	"		ND					20	
Nickel	ND	0.0111	"		ND					20	
Potassium	0.182	0.0556	"		0.158				14.0	20	
Silver	ND	0.00556	"		ND					20	
Sodium	1.13	0.556	"		1.15				2.36	20	
Vanadium	ND	0.0111	"		ND					20	
Zinc	0.0574	0.0278	"		ND					20	

Matrix Spike (BC50956-MS1) Matrix Spike *Source sample: 25C0648-01 (SOFB05_031125) Prepared & Analyzed: 03/13/2025

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Aluminum	2.02	0.0556	mg/L	2.22	ND	91.1	75-125				
Barium	2.33	0.0278	"	2.22	0.0449	103	75-125				
Calcium	2.86	0.0556	"	1.11	1.47	125	75-125				
Chromium	0.229	0.00556	"	0.222	ND	103	75-125				
Cobalt	0.572	0.00444	"	0.556	ND	103	75-125				
Copper	0.288	0.0222	"	0.278	ND	104	75-125				
Iron	1.13	0.278	"	1.11	ND	102	75-125				
Lead	0.561	0.00556	"	0.556	ND	101	75-125				
Magnesium	1.26	0.0556	"	1.11	0.142	100	75-125				
Manganese	0.570	0.00556	"	0.556	ND	103	75-125				
Nickel	0.577	0.0111	"	0.556	ND	104	75-125				
Potassium	1.26	0.0556	"	1.11	0.158	99.3	75-125				
Silver	0.0518	0.00556	"	0.0556	ND	93.2	75-125				
Sodium	2.21	0.556	"	1.11	1.15	94.7	75-125				
Vanadium	0.552	0.0111	"	0.556	ND	99.4	75-125				
Zinc	0.594	0.0278	"	0.556	ND	107	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50956 - EPA 3015A											
Post Spike (BC50956-PS1) Post Spike	*Source sample: 25C0648-01 (SOFB05_031125)						Prepared & Analyzed: 03/13/2025				
Aluminum	1.85		ug/mL	2.00	-0.000700	92.3	75-125				
Barium	2.12		"	2.00	0.0404	104	75-125				
Calcium	2.31		"	1.00	1.33	98.8	75-125				
Chromium	0.208		"	0.200	0.00310	103	75-125				
Cobalt	0.522		"	0.500	0.000600	104	75-125				
Copper	0.263		"	0.250	0.00340	104	75-125				
Iron	0.988		"	1.00	0.0466	94.1	75-125				
Lead	0.499		"	0.500	0.00200	99.4	75-125				
Magnesium	1.14		"	1.00	0.128	101	75-125				
Manganese	0.520		"	0.500	0.00350	103	75-125				
Nickel	0.527		"	0.500	0.00230	105	75-125				
Potassium	1.13		"	1.00	0.142	98.9	75-125				
Silver	0.0482		"	0.0500	-0.000800	96.4	75-125				
Sodium	1.95		"	1.00	1.04	91.5	75-125				
Vanadium	0.502		"	0.500	0.00	100	75-125				
Zinc	0.535		"	0.500	0.0186	103	75-125				
Batch BC51157 - EPA 3050B											
Blank (BC51157-BLK1) Blank							Prepared: 03/16/2025 Analyzed: 03/17/2025				
Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	ND	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	ND	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	1.67	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51157 - EPA 3050B											
Reference (BC51157-SRM1) Reference									Prepared: 03/16/2025 Analyzed: 03/17/2025		
Aluminum	7540	4.17	mg/kg wet	7680		98.2	47.4-130.2				
Antimony	51.7	2.08	"	201		25.7	0-100				
Arsenic	141	1.25	"	181		78.1	66.3-98				
Barium	198	2.08	"	211		94.1	73.9-107.1				
Beryllium	232	0.042	"	270		86.0	73-104.4				
Cadmium	172	0.250	"	221		77.9	70.6-101.8				
Calcium	3820	4.17	"	4280		89.3	77.3-111				
Chromium	126	0.417	"	149		84.3	71.8-105.4				
Cobalt	124	0.333	"	142		87.0	73.2-104.2				
Copper	248	1.67	"	264		93.8	73.5-104.2				
Iron	6580	20.8	"	7360		89.5	55.4-130.3				
Lead	93.8	0.417	"	106		88.5	76.1-109.4				
Magnesium	2030	4.17	"	2170		93.3	68.7-112				
Manganese	231	0.417	"	270		85.7	73-107.8				
Nickel	148	0.830	"	177		83.9	71.8-103.4				
Potassium	2120	4.17	"	2340		90.4	62.8-113.7				
Selenium	114	2.08	"	139		81.7	70-107.9				
Silver	54.4	0.420	"	59.9		90.8	72.8-110.7				
Sodium	269	41.7	"	306		88.1	66-113.4				
Thallium	179	1.67	"	205		87.5	71.7-106.8				
Vanadium	132	0.830	"	155		85.3	69-107.7				
Zinc	314	2.08	"	389		80.8	70.4-106.9				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51029 - EPA 3015A											
Blank (BC51029-BLK1) Blank								Prepared: 03/13/2025 Analyzed: 03/14/2025			
Antimony	ND	1.11	ug/L								
Arsenic	ND	1.11	"								
Beryllium	ND	0.333	"								
Cadmium	ND	0.556	"								
Selenium	ND	1.11	"								
Thallium	ND	1.11	"								
LCS (BC51029-BS1) LCS								Prepared: 03/13/2025 Analyzed: 03/14/2025			
Antimony	49.6		ug/L	50.0		99.2	80-120				
Arsenic	47.7		"	50.0		95.4	80-120				
Beryllium	49.9		"	50.0		99.7	80-120				
Cadmium	46.1		"	50.0		92.2	80-120				
Selenium	49.4		"	50.0		98.8	80-120				
Thallium	48.5		"	50.0		97.0	80-120				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50886 - EPA 7473 soil												
Blank (BC50886-BLK1)	Blank								Prepared: 03/12/2025 Analyzed: 03/14/2025			
Mercury		ND	0.0300	mg/kg wet								
Reference (BC50886-SRM1)	Reference								Prepared: 03/12/2025 Analyzed: 03/14/2025			
Mercury		22.829		mg/kg	24.0		95.1	55.8-109.6				
Batch BC51056 - EPA SW846-7470A												
Blank (BC51056-BLK1)	Blank								Prepared & Analyzed: 03/14/2025			
Mercury		ND	0.0002	mg/L								
Blank (BC51056-BLK2)	Blank								Prepared & Analyzed: 03/14/2025			
Mercury		ND	0.0002	mg/L								
LCS (BC51056-BS1)	LCS								Prepared & Analyzed: 03/14/2025			
Mercury		0.0019225	0.0002	mg/L	0.00200		96.1	80-120				
LCS (BC51056-BS2)	LCS								Prepared & Analyzed: 03/14/2025			
Mercury		0.0019491	0.0002	mg/L	0.00200		97.5	80-120				
Batch BC51095 - EPA 7473 soil												
Blank (BC51095-BLK1)	Blank								Prepared: 03/14/2025 Analyzed: 03/15/2025			
Mercury		ND	0.0300	mg/kg wet								
Reference (BC51095-SRM1)	Reference								Prepared: 03/14/2025 Analyzed: 03/15/2025			
Mercury		20.238		mg/kg	24.0		84.3	55.8-109.6				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50830 - Analysis Preparation												
Blank (BC50830-BLK1)	Blank								Prepared & Analyzed: 03/11/2025			
Chromium, Hexavalent		ND	0.0100	mg/L								
LCS (BC50830-BS1)	LCS								Prepared & Analyzed: 03/11/2025			
Chromium, Hexavalent		0.460	0.0100	mg/L	0.500		91.9	85-115				
Duplicate (BC50830-DUP1)	Duplicate	*Source sample: 25C0648-01 (SOFB05_031125)							Prepared & Analyzed: 03/11/2025			
Chromium, Hexavalent		ND	0.0100	mg/L		ND					20	
Matrix Spike (BC50830-MS1)	Matrix Spike	*Source sample: 25C0648-01 (SOFB05_031125)							Prepared & Analyzed: 03/11/2025			
Chromium, Hexavalent		0.462	0.0100	mg/L	0.500	ND	92.4	85-115				
Matrix Spike Dup (BC50830-M	Matrix Spike Dup	*Source sample: 25C0648-01 (SOFB05_031125)							Prepared & Analyzed: 03/11/2025			
Chromium, Hexavalent		0.448	0.0100	mg/L	0.500	ND	89.5	85-115		3.11	200	
Batch BC50889 - Analysis Preparation												
Blank (BC50889-BLK1)	Blank								Prepared & Analyzed: 03/12/2025			
Cyanide, total		ND	0.0100	mg/L								
LCS (BC50889-BS1)	LCS								Prepared & Analyzed: 03/12/2025			
Cyanide, total		0.103	0.0100	mg/L	0.100		103	80-120				
Duplicate (BC50889-DUP1)	Duplicate	*Source sample: 25C0648-01 (SOFB05_031125)							Prepared & Analyzed: 03/12/2025			
Cyanide, total		ND	0.0100	mg/L		ND					15	
Matrix Spike (BC50889-MS1)	Matrix Spike	*Source sample: 25C0648-01 (SOFB05_031125)							Prepared & Analyzed: 03/12/2025			
Cyanide, total		0.0972	0.0100	mg/L	0.100	ND	97.2	79-105				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50889 - Analysis Preparation											
Matrix Spike Dup (BC50889-M Matrix Spike Dup *Source sample: 25C0648-01 (SOFB05_031125)								Prepared & Analyzed: 03/12/2025			
Cyanide, total	0.0946	0.0100	mg/L	0.100	ND	94.6	79-105		2.71	200	
Batch BC50966 - EPA SW846-3060											
Blank (BC50966-BLK1) Blank								Prepared & Analyzed: 03/13/2025			
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Reference (BC50966-SRM1) Reference								Prepared & Analyzed: 03/13/2025			
Chromium, Hexavalent	212		mg/L	227		93.5	42.3-157.7				
Batch BC51103 - Analysis Preparation Soil											
Blank (BC51103-BLK1) Blank								Prepared & Analyzed: 03/14/2025			
Cyanide, total	ND	0.500	mg/kg wet								
Duplicate (BC51103-DUP1) Duplicate *Source sample: 25C0648-07 (SB41_5-7)								Prepared & Analyzed: 03/14/2025			
Cyanide, total	ND	0.623	mg/kg dry		ND					15	
Matrix Spike (BC51103-MS1) Matrix Spike *Source sample: 25C0648-07 (SB41_5-7)								Prepared & Analyzed: 03/14/2025			
Cyanide, total	5.95	0.623	mg/kg dry	6.23	ND	95.4	79.6-107				
Matrix Spike Dup (BC51103-M Matrix Spike Dup *Source sample: 25C0648-07 (SB41_5-7)								Prepared & Analyzed: 03/14/2025			
Cyanide, total	5.75	0.623	mg/kg dry	6.23	ND	92.2	79.6-107		3.38	200	
Reference (BC51103-SRM1) Reference								Prepared & Analyzed: 03/14/2025			
Cyanide, total	122		ug/mL	111		110	43.5-170				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
25C0648-01	SOFB05_031125	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
25C0648-03	SOTB05_031125	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
25C0648-04	SB42_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0648-05	SB42_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0648-06	SB41_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0648-07	SB41_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0648-08	SB40_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0648-09	SB40_5-7	40mL Vial with Stir Bar-Cool 4° C
25C0648-10	SB39_0-2	40mL Vial with Stir Bar-Cool 4° C
25C0648-11	SB39_5-7	40mL Vial with Stir Bar-Cool 4° C

Sample and Data Qualifiers Relating to This Work Order

QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
PF-CCV-L	The CCV recovery for this PFAS compound was below control limits.
P	This qualifier indicates the compound detected exhibited greater than 40% between the quantitation and confirmatory columns.
M-CCV1	The recovery for this element in the Continuing Calibration Verification (CCV) was outside the 90-110% recovery criteria.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This legal document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 2161 Whitesville Rd Toms River, NJ 08755 clientservices@yorklab.com 800-306-YORK

YORK Project Number: 25C0648

Page 1 of 1

Report To:
Company: Langan
Address: 368 Ninth Ave, 8th Fl NY, NY 10001
Phone: 212-419-5400
Contact: Lexi Haley
E-mail: LHaley@langan.com

Invoice To:
Company:
Address:
Phone:
Contact:
E-mail:

YOUR Project Name / Number: Proposed Ballys Casino Ring Road at Ferry Point Park 170773001

PO Number:

Samples Collected From: NY [X] NJ [ ] CT [ ] PA [ ] Other: (please specify)

Turn-Around Time: RUSH - Next Day; RUSH - Two Day; RUSH - Three Day; RUSH - Four Day; RUSH - Five Day; Standard (6-9 Day) [X]; PFAS Standard 7-10 Day

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Sarah Walter, Savannah Walters

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Preservative (please list number of containers)

Analyses Requested

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other: DI water	Part 375 VOCs	Part 375 SVOCs, PCBs, Pest	Herb, TPH, metals (ind hex)	tri chromium & total cyanide	1,4-dioxane	PFAS						Grab or Comp. G/C
SOFB05_031125	3/11/25	0749	AQ	8	3		1		1					X	X	X	X	X							
SOFB05_PFAS_031125		0827	↓	2															X						
SOTB05_031125		—	↓		2									X											
SB42_0-2		1031	S	3		1							2	X	X	X	X	X							
SB42_5-7*		1040	↓	4		↓							↓	↓	↓	↓	↓	↓	X						
SB41_0-2		1149		3																					
SB41_5-7		1155		↓																					
SB40_0-2		1256																							
SB40_5-7		1308																							
SB39_0-2		1342																							
SB39_5-7		1349	↓	↓		↓							↓	↓	↓	↓	↓	↓							

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered; Lab Filtered

Comments: please cc: datamanagement@langan.com areach@langan.com & swalters@langan.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N Containers Intact: Y / N COC/Labels Agree: Y / N Preservation Confirmed: Y / N
COC Complete: Y / N COC Received: Y / N Appropriate Sample Volumes: Y / N Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N Samples Submitted within Holding Times: Y / N Corrective Action Form Required: Y / N

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Sarah Walter (Langan)	3/11/25 1436	A. Husain	3/11/25 14:36	A. Husain	3/11/25 19:55
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				[illegible]	3/11/25 19:55 2.3 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Report Date: 03/07/2025
Client Project ID: 170773001
York Project (SDG) No.: 25B1548

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/07/2025
Client Project ID: 170773001
York Project (SDG) No.: 25B1548

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 27, 2025 and listed below. The project was identified as your project: **170773001**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25B1548-01	TMW01_022725	Ground Water	02/27/2025	02/27/2025

General Notes for York Project (SDG) No.: 25B1548

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By **Date:** 03/07/2025

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: TMW01_022725 **York Sample ID:** 25B1548-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Ground Water	February 27, 2025 1:30 pm	02/27/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: TMW01_022725 **York Sample ID:** 25B1548-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Ground Water	February 27, 2025 1:30 pm	02/27/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND		ug/L	1.34	2.00	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND	CCVE	ug/L	0.119	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.451	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: TMW01_022725 **York Sample ID:** 25B1548-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Ground Water	February 27, 2025 1:30 pm	02/27/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **TMW01_022725** **York Sample ID:** **25B1548-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Ground Water	February 27, 2025 1:30 pm	02/27/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/04/2025 08:59	03/04/2025 12:18	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*96.5 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*96.9 %*	*79-122*

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW01_022725 **York Sample ID:** 25B1548-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Ground Water	February 27, 2025 1:30 pm	02/27/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-48-7	2-Methylphenol	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
99-09-2	3-Nitroaniline	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		ug/L	5.88	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		ug/L	5.88	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW01_022725 **York Sample ID:** 25B1548-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Ground Water	February 27, 2025 1:30 pm	02/27/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.18	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	NELAC-NY10854,PADEP-68-04440		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.88	11.8	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		ug/L	0.882	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		ug/L	2.94	5.88	1	EPA 8270D	02/28/2025 08:09	02/28/2025 17:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*40.7 %*	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*26.0 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*66.2 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*63.1 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*52.6 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*69.0 %*	*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **TMW01_022725** **York Sample ID:** **25B1548-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Ground Water	February 27, 2025 1:30 pm	02/27/2025

83-32-9	**Acenaphthene**	**0.153**	ug/L	0.0588	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	**Acenaphthylene**	**0.0941**	ug/L	0.0588	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-12-7	**Anthracene**	**0.0824**	ug/L	0.0588	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND	ug/L	0.588	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
56-55-3	**Benzo(a)anthracene**	**0.106**	ug/L	0.0588	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND	ug/L	0.0588	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND	ug/L	0.0588	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND	ug/L	0.0588	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND	ug/L	0.0588	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND	ug/L	0.588	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	**Chrysene**	**0.106**	ug/L	0.0588	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND	ug/L	0.0588	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	**Fluoranthene**	**0.118**	ug/L	0.0588	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	**Fluorene**	**0.0706**	ug/L	0.0588	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
118-74-1	Hexachlorobenzene	ND	ug/L	0.0235	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND	ug/L	0.588	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND	ug/L	0.588	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND	ug/L	0.0588	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND	ug/L	0.0588	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND	ug/L	0.294	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
62-75-9	N-Nitrosodimethylamine	ND	ug/L	0.588	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-86-5	Pentachlorophenol	ND	ug/L	0.294	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
85-01-8	**Phenanthrene**	**0.0941**	ug/L	0.0588	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.247**	ug/L	0.0588	1	EPA 8270D SIM	02/28/2025 08:15	02/28/2025 21:08	AAK
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **TMW01_022725** **York Sample ID:** **25B1548-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Ground Water	February 27, 2025 1:30 pm	02/27/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270E SIM Certifications: NJDEP-CT005,NELAC-NY10854	02/28/2025 18:15	02/28/2025 23:38	SS

	Surrogate Recoveries	Result		Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*120 %*	S-HI	*36.6-118*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**5.33**		ng/L	0.439	1.65	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**11.3**		ng/L	0.327	1.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**9.90**		ng/L	0.663	1.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**3.43**		ng/L	0.635	1.71	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
335-67-1	**Perfluorooctanoic acid (PFOA)**	**45.8**		ng/L	0.392	1.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.765	1.74	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
375-95-1	**Perfluorononanoic acid (PFNA)**	**0.570**	J	ng/L	0.485	1.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.700	1.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.05	1.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.821	1.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.691	1.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.644	1.87	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
2355-31-9	**N-MeFOSAA**	**2.00**		ng/L	0.737	1.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
2991-50-6	N-EtFOSAA	ND		ng/L	0.961	1.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**11.8**		ng/L	0.215	3.73	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.821	1.87	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM

Sample Information

Client Sample ID: **TMW01_022725** **York Sample ID:** **25B1548-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Ground Water	February 27, 2025 1:30 pm	02/27/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.849	1.78	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.23	1.80	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	7.00	7.09	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.91	7.17	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**13.6**		ng/L	0.308	7.47	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.467	3.32	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/06/2025 12:49	03/07/2025 12:38	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.00	3.73	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/06/2025 12:49	03/07/2025 12:38	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.233	3.73	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/06/2025 12:49	03/07/2025 12:38	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.345	3.73	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/06/2025 12:49	03/07/2025 12:38	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.709	1.75	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.67	7.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.01	7.47	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.29	7.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.653	6.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
919005-14-4	ADONA	ND		ng/L	0.495	7.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.868	1.81	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 12:38	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.803	1.79	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/06/2025 12:49	03/07/2025 12:38	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.89	4.67	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 12:38	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	6.84	23.3	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 12:38	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	8.84	23.3	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 12:38	AM
24448-09-7	* N-MeFOSE	ND		ng/L	3.72	18.7	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 12:38	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.47	1.87	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 12:38	AM

Sample Information

Client Sample ID: TMW01_022725 **York Sample ID:** 25B1548-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Ground Water	February 27, 2025 1:30 pm	02/27/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1691-99-2	* N-EtFOSE	ND		ng/L	3.72	18.7	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 12:38	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.68	1.87	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 12:38	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*121 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*117 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*135 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*126 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*117 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*108 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*93.8 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*68.6 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*53.4 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*48.2 %*		*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*122 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*103 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*120 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*124 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*118 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*294 %*	PFSu-H	*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*210 %*	PFSu-H	*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*119 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*370 %*	PFSu-H	*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*63.8 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*61.7 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*131 %*		*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*49.8 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*57.6 %*		*25-150*

Sample Information

Client Sample ID: **TMW01_022725** **York Sample ID:** **25B1548-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Ground Water	February 27, 2025 1:30 pm	02/27/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00421	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/L	0.00421	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/L	0.00421	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/L	0.00421	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/L	0.00421	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00421	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/L	0.00421	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/L	0.00421	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/L	0.00211	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/L	0.00421	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/L	0.00421	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00421	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/L	0.00421	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0105	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/L	0.0105	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00421	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0105	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00421	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00421	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00421	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.105	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW01_022725 **York Sample ID:** 25B1548-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Ground Water	February 27, 2025 1:30 pm	02/27/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		ug/L	0.211	1	EPA 8081B	03/05/2025 12:15	03/06/2025 10:37	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*37.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*44.2 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0526	1	EPA 8082A	03/05/2025 12:13	03/06/2025 21:52	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0526	1	EPA 8082A	03/05/2025 12:13	03/06/2025 21:52	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0526	1	EPA 8082A	03/05/2025 12:13	03/06/2025 21:52	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0526	1	EPA 8082A	03/05/2025 12:13	03/06/2025 21:52	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0526	1	EPA 8082A	03/05/2025 12:13	03/06/2025 21:52	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0526	1	EPA 8082A	03/05/2025 12:13	03/06/2025 21:52	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0526	1	EPA 8082A	03/05/2025 12:13	03/06/2025 21:52	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0526	1	EPA 8082A	03/05/2025 12:13	03/06/2025 21:52	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*44.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*39.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	03/04/2025 08:00	03/04/2025 15:23	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	03/04/2025 08:00	03/04/2025 15:23	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	03/04/2025 08:00	03/04/2025 15:23	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: TMW01_022725 **York Sample ID:** 25B1548-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Ground Water	February 27, 2025 1:30 pm	02/27/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*80.4 %*			*30-150*					

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**1.20**		mg/L	0.0556	1	EPA 6010D	03/03/2025 15:42	03/04/2025 15:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.572**		mg/L	0.0278	1	EPA 6010D	03/03/2025 15:42	03/04/2025 15:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**301**	M-BS	mg/L	0.0556	1	EPA 6010D	03/03/2025 15:42	03/04/2025 15:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/03/2025 15:42	03/04/2025 15:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	03/03/2025 15:42	03/04/2025 15:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/03/2025 15:42	03/04/2025 15:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**35.5**		mg/L	0.278	1	EPA 6010D	03/03/2025 15:42	03/04/2025 15:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**0.0144**	M-CCV 1	mg/L	0.00556	1	EPA 6010D	03/03/2025 15:42	03/04/2025 15:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**155**		mg/L	0.0556	1	EPA 6010D	03/03/2025 15:42	03/04/2025 15:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**8.64**		mg/L	0.00556	1	EPA 6010D	03/03/2025 15:42	03/04/2025 15:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/03/2025 15:42	03/04/2025 15:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**40.5**		mg/L	0.0556	1	EPA 6010D	03/03/2025 15:42	03/04/2025 15:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/03/2025 15:42	03/04/2025 15:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**1040**	M-BS	mg/L	0.556	1	EPA 6010D	03/03/2025 15:42	03/04/2025 15:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/03/2025 15:42	03/04/2025 15:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**0.0292**		mg/L	0.0278	1	EPA 6010D	03/03/2025 15:42	03/04/2025 15:57	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICP Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **TMW01_022725** **York Sample ID:** **25B1548-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Ground Water	February 27, 2025 1:30 pm	02/27/2025

Metals, Target Analyte, ICP Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	03/03/2025 15:51	03/05/2025 15:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.523**		mg/L	0.0278	1	EPA 6010D	03/03/2025 15:51	03/05/2025 15:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**272**	M-BS	mg/L	0.0556	1	EPA 6010D	03/03/2025 15:51	03/05/2025 15:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/03/2025 15:51	03/05/2025 15:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	03/03/2025 15:51	03/05/2025 15:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/03/2025 15:51	03/05/2025 15:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**32.5**		mg/L	0.278	1	EPA 6010D	03/03/2025 15:51	03/05/2025 15:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/03/2025 15:51	03/05/2025 15:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**141**		mg/L	0.0556	1	EPA 6010D	03/03/2025 15:51	03/05/2025 15:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**8.14**		mg/L	0.00556	1	EPA 6010D	03/03/2025 15:51	03/05/2025 15:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/03/2025 15:51	03/05/2025 15:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**34.8**		mg/L	0.0556	1	EPA 6010D	03/03/2025 15:51	03/05/2025 15:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/03/2025 15:51	03/05/2025 15:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**871**	M-BS	mg/L	0.556	1	EPA 6010D	03/03/2025 15:51	03/05/2025 15:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/03/2025 15:51	03/05/2025 15:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	03/03/2025 15:51	03/05/2025 15:28	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-CCV 1, M-BS	ug/L	1.11	1	EPA 6020B	03/03/2025 15:31	03/04/2025 15:00	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**1.68**		ug/L	1.11	1	EPA 6020B	03/03/2025 15:31	03/04/2025 15:00	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND	M-CCV 1	ug/L	0.333	1	EPA 6020B	03/03/2025 15:31	03/04/2025 15:00	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **TMW01_022725** **York Sample ID:** **25B1548-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1548	170773001	Ground Water	February 27, 2025 1:30 pm	02/27/2025

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND	M-CCV 1, M-BS	ug/L	0.556	1	EPA 6020B	03/03/2025 15:31	03/04/2025 15:00	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**1.15**		ug/L	1.11	1	EPA 6020B	03/03/2025 15:31	03/04/2025 15:00	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/03/2025 15:31	03/04/2025 15:00	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-CCV 1	ug/L	1.11	1	EPA 6020B	03/03/2025 15:58	03/04/2025 15:50	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	03/03/2025 15:58	03/04/2025 15:50	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND	M-CCV 1	ug/L	0.333	1	EPA 6020B	03/03/2025 15:58	03/04/2025 15:50	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND	M-CCV 1	ug/L	0.556	1	EPA 6020B	03/03/2025 15:58	03/04/2025 15:50	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**1.25**		ug/L	1.11	1	EPA 6020B	03/03/2025 15:58	03/04/2025 15:50	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/03/2025 15:58	03/04/2025 15:50	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/04/2025 07:56	03/04/2025 07:56	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/04/2025 07:58	03/04/2025 07:58	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Analytical Batch Summary

Batch ID: BB51948 **Preparation Method:** EPA 3510C **Prepared By:** SAC2

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-01	TMW01_022725	02/28/25
BB51948-BLK1	Blank	02/28/25
BB51948-BS1	LCS	02/28/25
BB51948-BSD1	LCS Dup	02/28/25

Batch ID: BB51951 **Preparation Method:** EPA 3510C **Prepared By:** SAC2

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-01	TMW01_022725	02/28/25
BB51951-BLK2	Blank	02/28/25
BB51951-BS2	LCS	02/28/25

Batch ID: BB51980 **Preparation Method:** EPA 3535A **Prepared By:** NMB2

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-01	TMW01_022725	02/28/25
BB51980-BLK1	Blank	02/28/25
BB51980-BS1	LCS	02/28/25

Batch ID: BC50076 **Preparation Method:** EPA 8151A **Prepared By:** YL

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-01	TMW01_022725	03/04/25
BC50076-BLK1	Blank	03/04/25
BC50076-BS1	LCS	03/04/25
BC50076-BSD1	LCS Dup	03/04/25

Batch ID: BC50122 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-01	TMW01_022725	03/03/25
BC50122-BLK1	Blank	03/03/25
BC50122-BS1	LCS	03/03/25

Batch ID: BC50123 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-01	TMW01_022725	03/03/25
BC50123-BLK1	Blank	03/03/25
BC50123-BS1	LCS	03/03/25
BC50123-DUP1	Duplicate	03/03/25
BC50123-MS1	Matrix Spike	03/03/25

BC50123-PS1	Post Spike	03/03/25

Batch ID: BC50124 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-01	TMW01_022725	03/03/25
BC50124-BLK1	Blank	03/03/25
BC50124-BS1	LCS	03/03/25

Batch ID: BC50125 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-01	TMW01_022725	03/03/25
BC50125-BLK1	Blank	03/03/25
BC50125-BS1	LCS	03/03/25
BC50125-DUP1	Duplicate	03/03/25
BC50125-MS1	Matrix Spike	03/03/25

Batch ID: BC50151 **Preparation Method:** EPA SW846-7470A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-01	TMW01_022725	03/04/25
BC50151-BLK1	Blank	03/04/25
BC50151-BLK2	Blank	03/04/25
BC50151-BS1	LCS	03/04/25
BC50151-BS2	LCS	03/04/25

Batch ID: BC50152 **Preparation Method:** EPA SW846-7470A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-01	TMW01_022725	03/04/25
BC50152-BLK1	Blank	03/04/25
BC50152-BLK2	Blank	03/04/25
BC50152-BS1	LCS	03/04/25
BC50152-BS2	LCS	03/04/25

Batch ID: BC50163 **Preparation Method:** EPA 5030B **Prepared By:** SCB

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-01	TMW01_022725	03/04/25
BC50163-BLK1	Blank	03/04/25
BC50163-BS1	LCS	03/04/25
BC50163-BSD1	LCS Dup	03/04/25

Batch ID: BC50313 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** DCB

YORK Sample ID	Client Sample ID	Preparation Date

25B1548-01	TMW01_022725	03/05/25
BC50313-BLK2	Blank	03/05/25
BC50313-BS2	LCS	03/05/25
BC50313-BSD2	LCS Dup	03/05/25

Batch ID: BC50314 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** DCB

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-01	TMW01_022725	03/05/25
BC50314-BLK1	Blank	03/05/25
BC50314-BS1	LCS	03/05/25

Batch ID: BC50414 **Preparation Method:** EPA 1633 Prep **Prepared By:** JLH

YORK Sample ID	Client Sample ID	Preparation Date
25B1548-01	TMW01_022725	03/06/25
BC50414-BLK1	Blank	03/06/25
BC50414-BS1	LCS	03/06/25
BC50414-BS2	LCS	03/06/25

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50163 - EPA 5030B											
Blank (BC50163-BLK1) Blank									Prepared & Analyzed: 03/04/2025		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50163 - EPA 5030B											
Blank (BC50163-BLK1) Blank							Prepared & Analyzed: 03/04/2025				
n-Butylbenzene	ND	0.500	ug/L								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.0*		*"*	*10.0*		*100*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.76*		*"*	*10.0*		*97.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.67*		*"*	*10.0*		*96.7*	*79-122*				
LCS (BC50163-BS1) LCS							Prepared & Analyzed: 03/04/2025				
1,1,1,2-Tetrachloroethane	9.48		ug/L	10.0		94.8	82-126				
1,1,1-Trichloroethane	9.30		"	10.0		93.0	78-136				
1,1,2,2-Tetrachloroethane	9.65		"	10.0		96.5	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0		"	10.0		110	54-165				
1,1,2-Trichloroethane	9.25		"	10.0		92.5	82-123				
1,1-Dichloroethane	9.46		"	10.0		94.6	82-129				
1,1-Dichloroethylene	10.5		"	10.0		105	68-138				
1,2,3-Trichlorobenzene	9.59		"	10.0		95.9	76-136				
1,2,3-Trichloropropane	9.34		"	10.0		93.4	77-128				
1,2,4-Trichlorobenzene	9.72		"	10.0		97.2	76-137				
1,2,4-Trimethylbenzene	9.78		"	10.0		97.8	82-132				
1,2-Dibromo-3-chloropropane	8.35		"	10.0		83.5	45-147				
1,2-Dibromoethane	9.22		"	10.0		92.2	83-124				
1,2-Dichlorobenzene	9.04		"	10.0		90.4	79-123				
1,2-Dichloroethane	9.09		"	10.0		90.9	73-132				
1,2-Dichloropropane	9.69		"	10.0		96.9	78-126				
1,3,5-Trimethylbenzene	9.68		"	10.0		96.8	80-131				
1,3-Dichlorobenzene	9.18		"	10.0		91.8	86-122				
1,4-Dichlorobenzene	9.13		"	10.0		91.3	85-124				
1,4-Dioxane	152		"	210		72.2	10-349				
2-Butanone	8.57		"	10.0		85.7	49-152				
2-Hexanone	9.13		"	10.0		91.3	51-146				
4-Methyl-2-pentanone	9.70		"	10.0		97.0	57-145				
Acetone	7.20		"	10.0		72.0	14-150				
Acrolein	14.1		"	10.0		141	10-153				
Acrylonitrile	10.4		"	10.0		104	51-150				
Benzene	9.89		"	10.0		98.9	85-126				
Bromochloromethane	9.59		"	10.0		95.9	77-128				
Bromodichloromethane	9.58		"	10.0		95.8	79-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50163 - EPA 5030B											
LCS (BC50163-BS1) LCS							Prepared & Analyzed: 03/04/2025				
Bromoform	9.60		ug/L	10.0		96.0	78-133				
Bromomethane	9.99		"	10.0		99.9	43-168				
Carbon disulfide	11.2		"	10.0		112	68-146				
Carbon tetrachloride	9.70		"	10.0		97.0	77-141				
Chlorobenzene	9.28		"	10.0		92.8	88-120				
Chloroethane	10.7		"	10.0		107	65-136				
Chloroform	9.30		"	10.0		93.0	82-128				
Chloromethane	11.3		"	10.0		113	43-155				
cis-1,2-Dichloroethylene	9.62		"	10.0		96.2	83-129				
cis-1,3-Dichloropropylene	9.62		"	10.0		96.2	80-131				
Cyclohexane	10.8		"	10.0		108	63-149				
Dibromochloromethane	9.35		"	10.0		93.5	80-130				
Dibromomethane	9.08		"	10.0		90.8	72-134				
Dichlorodifluoromethane	14.2		"	10.0		142	44-144				
Ethyl Benzene	9.61		"	10.0		96.1	80-131				
Hexachlorobutadiene	9.34		"	10.0		93.4	67-146				
Isopropylbenzene	9.59		"	10.0		95.9	76-140				
Methyl acetate	12.7		"	10.0		127	51-139				
Methyl tert-butyl ether (MTBE)	9.17		"	10.0		91.7	76-135				
Methylcyclohexane	10.1		"	10.0		101	72-143				
Methylene chloride	9.26		"	10.0		92.6	55-137				
n-Butylbenzene	10.0		"	10.0		100	79-132				
n-Propylbenzene	9.57		"	10.0		95.7	78-133				
o-Xylene	9.34		"	10.0		93.4	78-130				
p- & m- Xylenes	18.8		"	20.0		94.0	77-133				
p-Isopropyltoluene	9.87		"	10.0		98.7	81-136				
sec-Butylbenzene	9.58		"	10.0		95.8	79-137				
Styrene	9.81		"	10.0		98.1	67-132				
tert-Butyl alcohol (TBA)	51.9		"	50.0		104	25-162				
tert-Butylbenzene	9.42		"	10.0		94.2	77-138				
Tetrachloroethylene	5.98		"	10.0		59.8	82-131	Low Bias			
Toluene	9.52		"	10.0		95.2	80-127				
trans-1,2-Dichloroethylene	9.93		"	10.0		99.3	80-132				
trans-1,3-Dichloropropylene	9.75		"	10.0		97.5	78-131				
Trichloroethylene	9.35		"	10.0		93.5	82-128				
Trichlorofluoromethane	10.4		"	10.0		104	67-139				
Vinyl Chloride	11.0		"	10.0		110	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.21*		*"*	*10.0*		*92.1*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.93*		*"*	*10.0*		*99.3*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.1*		*"*	*10.0*		*101*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50163 - EPA 5030B											
LCS Dup (BC50163-BSD1) LCS Dup							Prepared & Analyzed: 03/04/2025				
1,1,1,2-Tetrachloroethane	9.83		ug/L	10.0		98.3	82-126		3.63	30	
1,1,1-Trichloroethane	9.10		"	10.0		91.0	78-136		2.17	30	
1,1,2,2-Tetrachloroethane	10.3		"	10.0		103	76-129		6.52	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.5		"	10.0		105	54-165		5.40	30	
1,1,2-Trichloroethane	9.91		"	10.0		99.1	82-123		6.89	30	
1,1-Dichloroethane	9.59		"	10.0		95.9	82-129		1.36	30	
1,1-Dichloroethylene	10.2		"	10.0		102	68-138		3.68	30	
1,2,3-Trichlorobenzene	11.6		"	10.0		116	76-136		18.8	30	
1,2,3-Trichloropropane	10.0		"	10.0		100	77-128		6.93	30	
1,2,4-Trichlorobenzene	10.6		"	10.0		106	76-137		8.94	30	
1,2,4-Trimethylbenzene	9.49		"	10.0		94.9	82-132		3.01	30	
1,2-Dibromo-3-chloropropane	9.23		"	10.0		92.3	45-147		10.0	30	
1,2-Dibromoethane	9.88		"	10.0		98.8	83-124		6.91	30	
1,2-Dichlorobenzene	9.24		"	10.0		92.4	79-123		2.19	30	
1,2-Dichloroethane	9.69		"	10.0		96.9	73-132		6.39	30	
1,2-Dichloropropane	9.93		"	10.0		99.3	78-126		2.45	30	
1,3,5-Trimethylbenzene	9.25		"	10.0		92.5	80-131		4.54	30	
1,3-Dichlorobenzene	9.14		"	10.0		91.4	86-122		0.437	30	
1,4-Dichlorobenzene	9.12		"	10.0		91.2	85-124		0.110	30	
1,4-Dioxane	181		"	210		86.3	10-349		17.8	30	
2-Butanone	9.57		"	10.0		95.7	49-152		11.0	30	
2-Hexanone	10.7		"	10.0		107	51-146		15.6	30	
4-Methyl-2-pentanone	11.1		"	10.0		111	57-145		13.8	30	
Acetone	7.77		"	10.0		77.7	14-150		7.62	30	
Acrolein	15.8		"	10.0		158	10-153	High Bias	11.4	30	
Acrylonitrile	11.9		"	10.0		119	51-150		13.7	30	
Benzene	10.0		"	10.0		100	85-126		1.21	30	
Bromochloromethane	10.1		"	10.0		101	77-128		4.88	30	
Bromodichloromethane	9.92		"	10.0		99.2	79-128		3.49	30	
Bromoform	10.7		"	10.0		107	78-133		11.0	30	
Bromomethane	10.2		"	10.0		102	43-168		1.59	30	
Carbon disulfide	10.9		"	10.0		109	68-146		3.07	30	
Carbon tetrachloride	9.37		"	10.0		93.7	77-141		3.46	30	
Chlorobenzene	9.43		"	10.0		94.3	88-120		1.60	30	
Chloroethane	10.7		"	10.0		107	65-136		0.748	30	
Chloroform	9.54		"	10.0		95.4	82-128		2.55	30	
Chloromethane	11.2		"	10.0		112	43-155		0.532	30	
cis-1,2-Dichloroethylene	9.76		"	10.0		97.6	83-129		1.44	30	
cis-1,3-Dichloropropylene	10.0		"	10.0		100	80-131		3.87	30	
Cyclohexane	10.4		"	10.0		104	63-149		4.15	30	
Dibromochloromethane	10.1		"	10.0		101	80-130		7.71	30	
Dibromomethane	9.68		"	10.0		96.8	72-134		6.40	30	
Dichlorodifluoromethane	13.4		"	10.0		134	44-144		5.66	30	
Ethyl Benzene	9.58		"	10.0		95.8	80-131		0.313	30	
Hexachlorobutadiene	9.51		"	10.0		95.1	67-146		1.80	30	
Isopropylbenzene	9.02		"	10.0		90.2	76-140		6.13	30	
Methyl acetate	14.6		"	10.0		146	51-139	High Bias	13.8	30	
Methyl tert-butyl ether (MTBE)	10.3		"	10.0		103	76-135		11.3	30	
Methylcyclohexane	9.73		"	10.0		97.3	72-143		3.83	30	
Methylene chloride	9.63		"	10.0		96.3	55-137		3.92	30	
n-Butylbenzene	9.68		"	10.0		96.8	79-132		3.25	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50163 - EPA 5030B											
LCS Dup (BC50163-BSD1) LCS Dup							Prepared & Analyzed: 03/04/2025				
n-Propylbenzene	9.08		ug/L	10.0		90.8	78-133		5.25	30	
o-Xylene	9.45		"	10.0		94.5	78-130		1.17	30	
p- & m- Xylenes	18.8		"	20.0		94.0	77-133		0.0532	30	
p-Isopropyltoluene	9.47		"	10.0		94.7	81-136		4.14	30	
sec-Butylbenzene	9.13		"	10.0		91.3	79-137		4.81	30	
Styrene	10.1		"	10.0		101	67-132		3.11	30	
tert-Butyl alcohol (TBA)	64.2		"	50.0		128	25-162		21.1	30	
tert-Butylbenzene	9.05		"	10.0		90.5	77-138		4.01	30	
Tetrachloroethylene	5.87		"	10.0		58.7	82-131	Low Bias	1.86	30	
Toluene	9.43		"	10.0		94.3	80-127		0.950	30	
trans-1,2-Dichloroethylene	9.87		"	10.0		98.7	80-132		0.606	30	
trans-1,3-Dichloropropylene	10.4		"	10.0		104	78-131		6.26	30	
Trichloroethylene	9.20		"	10.0		92.0	82-128		1.62	30	
Trichlorofluoromethane	9.98		"	10.0		99.8	67-139		4.51	30	
Vinyl Chloride	10.6		"	10.0		106	58-145		4.35	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.63*		*"*	*10.0*		*96.3*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.70*		*"*	*10.0*		*97.0*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.72*		*"*	*10.0*		*97.2*	*79-122*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB51948 - EPA 3510C											
Blank (BB51948-BLK1) Blank									Prepared & Analyzed: 02/28/2025		
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Diphenylamine	ND	5.00	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Isophorone	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Phenol	ND	5.00	"								
Pyridine	ND	5.00	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB51948 - EPA 3510C											
Blank (BB51948-BLK1) Blank							Prepared & Analyzed: 02/28/2025				
Surrogate: SURR: 2-Fluorophenol	*17.2*		*ug/L*	*50.0*		*34.4*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*10.3*		*"*	*50.0*		*20.6*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*14.6*		*"*	*25.0*		*58.2*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*15.2*		*"*	*25.0*		*60.8*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*33.4*		*"*	*50.0*		*66.8*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*19.0*		*"*	*25.0*		*76.0*	*30.7-106*				
LCS (BB51948-BS1) LCS							Prepared & Analyzed: 02/28/2025				
1,1-Biphenyl	18.8	5.00	ug/L	25.0		75.3	33-95				
1,2,4,5-Tetrachlorobenzene	17.7	5.00	"	25.0		70.8	26-120				
1,2-Diphenylhydrazine (as Azobenzene)	18.5	5.00	"	25.0		73.8	16-141				
2,3,4,6-Tetrachlorophenol	22.9	5.00	"	25.0		91.6	30-130				
2,4,5-Trichlorophenol	19.6	5.00	"	25.0		78.3	32-114				
2,4,6-Trichlorophenol	19.3	5.00	"	25.0		77.3	35-118				
2,4-Dichlorophenol	17.0	5.00	"	25.0		68.0	25-116				
2,4-Dimethylphenol	16.4	5.00	"	25.0		65.6	15-116				
2,4-Dinitrophenol	35.8	5.00	"	25.0		143	10-170				
2,4-Dinitrotoluene	22.5	5.00	"	25.0		90.1	41-128				
2,6-Dinitrotoluene	21.7	5.00	"	25.0		86.9	45-116				
2-Chloronaphthalene	18.2	5.00	"	25.0		73.0	33-112				
2-Chlorophenol	15.6	5.00	"	25.0		62.3	15-120				
2-Methylnaphthalene	15.9	5.00	"	25.0		63.4	24-118				
2-Methylphenol	13.9	5.00	"	25.0		55.4	10-110				
2-Nitroaniline	20.9	5.00	"	25.0		83.7	34-129				
2-Nitrophenol	16.4	5.00	"	25.0		65.4	28-118				
3- & 4-Methylphenols	11.0	5.00	"	25.0		44.1	10-107				
3,3-Dichlorobenzidine	16.4	5.00	"	25.0		65.7	15-187				
3-Nitroaniline	16.2	5.00	"	25.0		64.6	24-134				
4,6-Dinitro-2-methylphenol	29.0	5.00	"	25.0		116	10-153				
4-Bromophenyl phenyl ether	18.6	5.00	"	25.0		74.4	34-120				
4-Chloro-3-methylphenol	17.8	5.00	"	25.0		71.3	20-120				
4-Chloroaniline	13.8	5.00	"	25.0		55.4	10-147				
4-Chlorophenyl phenyl ether	19.4	5.00	"	25.0		77.6	27-121				
4-Nitroaniline	20.0	5.00	"	25.0		80.0	13-134				
4-Nitrophenol	7.33	5.00	"	25.0		29.3	10-131				
Acetophenone	17.4	5.00	"	25.0		69.7	25-110				
Aniline	6.90	5.00	"	25.0		27.6	10-117				
Benzaldehyde	13.8	5.00	"	25.0		55.2	29-117				
Benzoic acid	8.67	5.00	"	25.0		34.7	30-130				
Benzyl alcohol	13.0	5.00	"	25.0		52.0	10-117				
Benzyl butyl phthalate	22.9	5.00	"	25.0		91.7	29-133				
Bis(2-chloroethoxy)methane	16.8	5.00	"	25.0		67.1	10-154				
Bis(2-chloroethyl)ether	15.1	5.00	"	25.0		60.3	17-125				
Bis(2-chloroisopropyl)ether	16.5	5.00	"	25.0		65.9	10-139				
Caprolactam	4.06	5.00	"	25.0		16.2	10-137				
Carbazole	19.3	5.00	"	25.0		77.3	42-126				
Dibenzofuran	19.7	5.00	"	25.0		78.8	36-113				
Diethyl phthalate	20.8	5.00	"	25.0		83.4	38-115				
Dimethyl phthalate	20.9	5.00	"	25.0		83.6	38-129				
Di-n-butyl phthalate	23.5	5.00	"	25.0		94.2	31-120				
Di-n-octyl phthalate	22.1	5.00	"	25.0		88.6	21-149				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB51948 - EPA 3510C											
LCS (BB51948-BS1) LCS								Prepared & Analyzed: 02/28/2025			
Diphenylamine	22.4	5.00	ug/L	25.0		89.5	40-140				
Hexachlorocyclopentadiene	15.1	10.0	"	25.0		60.3	10-130				
Isophorone	17.6	5.00	"	25.0		70.4	25-127				
N-nitroso-di-n-propylamine	17.4	5.00	"	25.0		69.5	26-122				
N-Nitrosodiphenylamine	22.1	5.00	"	25.0		88.6	23-149				
Phenol	6.73	5.00	"	25.0		26.9	10-110				
Pyridine	2.66	5.00	"	35.0		7.60	10-90	Low Bias			
Surrogate: SURR: 2-Fluorophenol	*18.2*		*"*	*50.0*		*36.3*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*10.6*		*"*	*50.0*		*21.1*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*15.1*		*"*	*25.0*		*60.4*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*17.0*		*"*	*25.0*		*68.0*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*38.7*		*"*	*50.0*		*77.3*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*20.7*		*"*	*25.0*		*83.0*	*30.7-106*				
LCS Dup (BB51948-BSD1) LCS Dup								Prepared & Analyzed: 02/28/2025			
1,1-Biphenyl	19.1	5.00	ug/L	25.0		76.3	33-95		1.32	20	
1,2,4,5-Tetrachlorobenzene	16.8	5.00	"	25.0		67.2	26-120		5.22	20	
1,2-Diphenylhydrazine (as Azobenzene)	18.0	5.00	"	25.0		71.8	16-141		2.80	20	
2,3,4,6-Tetrachlorophenol	22.6	5.00	"	25.0		90.5	30-130		1.23	20	
2,4,5-Trichlorophenol	19.9	5.00	"	25.0		79.8	32-114		1.87	20	
2,4,6-Trichlorophenol	20.0	5.00	"	25.0		80.0	35-118		3.46	20	
2,4-Dichlorophenol	17.2	5.00	"	25.0		69.0	25-116		1.40	20	
2,4-Dimethylphenol	17.0	5.00	"	25.0		68.2	15-116		3.83	20	
2,4-Dinitrophenol	33.9	5.00	"	25.0		136	10-170		5.31	20	
2,4-Dinitrotoluene	21.2	5.00	"	25.0		84.9	41-128		5.94	20	
2,6-Dinitrotoluene	20.2	5.00	"	25.0		80.7	45-116		7.35	20	
2-Chloronaphthalene	18.6	5.00	"	25.0		74.4	33-112		2.01	20	
2-Chlorophenol	15.2	5.00	"	25.0		60.9	15-120		2.27	20	
2-Methylnaphthalene	16.0	5.00	"	25.0		63.9	24-118		0.754	20	
2-Methylphenol	13.7	5.00	"	25.0		54.7	10-110		1.31	20	
2-Nitroaniline	20.6	5.00	"	25.0		82.4	34-129		1.64	20	
2-Nitrophenol	17.0	5.00	"	25.0		68.2	28-118		4.13	20	
3- & 4-Methylphenols	11.0	5.00	"	25.0		44.0	10-107		0.272	20	
3,3-Dichlorobenzidine	15.7	5.00	"	25.0		62.9	15-187		4.42	20	
3-Nitroaniline	15.8	5.00	"	25.0		63.3	24-134		2.06	20	
4,6-Dinitro-2-methylphenol	26.8	5.00	"	25.0		107	10-153		7.68	20	
4-Bromophenyl phenyl ether	18.4	5.00	"	25.0		73.6	34-120		1.14	20	
4-Chloro-3-methylphenol	17.9	5.00	"	25.0		71.6	20-120		0.336	20	
4-Chloroaniline	13.2	5.00	"	25.0		52.8	10-147		4.81	20	
4-Chlorophenyl phenyl ether	19.0	5.00	"	25.0		76.0	27-121		2.03	20	
4-Nitroaniline	18.9	5.00	"	25.0		75.6	13-134		5.61	20	
4-Nitrophenol	7.29	5.00	"	25.0		29.2	10-131		0.547	20	
Acetophenone	17.5	5.00	"	25.0		70.1	25-110		0.629	20	
Aniline	7.23	5.00	"	25.0		28.9	10-117		4.67	20	
Benzaldehyde	13.5	5.00	"	25.0		54.0	29-117		2.20	20	
Benzoic acid	9.74	5.00	"	25.0		39.0	30-130		11.6	20	
Benzyl alcohol	12.5	5.00	"	25.0		50.1	10-117		3.76	20	
Benzyl butyl phthalate	23.8	5.00	"	25.0		95.1	29-133		3.68	20	
Bis(2-chloroethoxy)methane	17.5	5.00	"	25.0		70.1	10-154		4.37	20	
Bis(2-chloroethyl)ether	16.3	5.00	"	25.0		65.3	17-125		8.03	20	
Bis(2-chloroisopropyl)ether	16.3	5.00	"	25.0		65.2	10-139		0.976	20	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB51948 - EPA 3510C											
LCS Dup (BB51948-BSD1) LCS Dup							Prepared & Analyzed: 02/28/2025				
Caprolactam	3.83	5.00	ug/L	25.0		15.3	10-137		5.83	20	
Carbazole	21.0	5.00	"	25.0		84.1	42-126		8.43	20	
Dibenzofuran	19.0	5.00	"	25.0		76.2	36-113		3.30	20	
Diethyl phthalate	20.4	5.00	"	25.0		81.6	38-115		2.13	20	
Dimethyl phthalate	21.1	5.00	"	25.0		84.5	38-129		1.05	20	
Di-n-butyl phthalate	21.5	5.00	"	25.0		85.8	31-120		9.24	20	
Di-n-octyl phthalate	23.6	5.00	"	25.0		94.4	21-149		6.43	20	
Diphenylamine	21.5	5.00	"	25.0		86.2	40-140		3.83	20	
Hexachlorocyclopentadiene	14.0	10.0	"	25.0		56.1	10-130		7.15	20	
Isophorone	18.6	5.00	"	25.0		74.3	25-127		5.42	20	
N-nitroso-di-n-propylamine	18.3	5.00	"	25.0		73.3	26-122		5.32	20	
N-Nitrosodiphenylamine	20.6	5.00	"	25.0		82.2	23-149		7.40	20	
Phenol	6.81	5.00	"	25.0		27.2	10-110		1.18	20	
Pyridine	4.42	5.00	"	35.0		12.6	10-90		49.7	20	Non-dir.
Surrogate: SURR: 2-Fluorophenol	*17.1*		*"*	*50.0*		*34.2*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*10.8*		*"*	*50.0*		*21.5*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*15.2*		*"*	*25.0*		*60.9*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*17.4*		*"*	*25.0*		*69.7*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*37.5*		*"*	*50.0*		*74.9*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*19.0*		*"*	*25.0*		*75.8*	*30.7-106*				
Batch BB51951 - EPA 3510C											
Blank (BB51951-BLK2) Blank							Prepared & Analyzed: 02/28/2025				
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB51951 - EPA 3510C											
LCS (BB51951-BS2) LCS							Prepared & Analyzed: 02/28/2025				
Acenaphthene	0.700	0.0500	ug/L	1.25		56.0	25-116				
Acenaphthylene	0.860	0.0500	"	1.25		68.8	26-116				
Anthracene	0.820	0.0500	"	1.25		65.6	25-123				
Benzo(a)anthracene	0.850	0.0500	"	1.25		68.0	33-125				
Benzo(a)pyrene	0.830	0.0500	"	1.25		66.4	32-132				
Benzo(b)fluoranthene	0.720	0.0500	"	1.25		57.6	22-137				
Benzo(g,h,i)perylene	1.23	0.0500	"	1.25		98.4	10-138				
Benzo(k)fluoranthene	0.740	0.0500	"	1.25		59.2	20-137				
Bis(2-ethylhexyl)phthalate	0.990	0.500	"	1.25		79.2	10-189				
Chrysene	0.800	0.0500	"	1.25		64.0	32-124				
Dibenzo(a,h)anthracene	1.17	0.0500	"	1.25		93.6	16-133				
Fluoranthene	0.830	0.0500	"	1.25		66.4	32-121				
Fluorene	0.800	0.0500	"	1.25		64.0	28-118				
Hexachlorobenzene	0.900	0.0200	"	1.25		72.0	23-124				
Hexachlorobutadiene	0.620	0.500	"	1.25		49.6	15-123				
Hexachloroethane	3.36	0.500	"	1.25		269	18-115	High Bias			
Indeno(1,2,3-cd)pyrene	1.15	0.0500	"	1.25		92.0	15-135				
Naphthalene	0.670	0.0500	"	1.25		53.6	18-120				
Nitrobenzene	0.380	0.250	"	1.25		30.4	21-121				
N-Nitrosodimethylamine	ND	0.500	"	1.25			10-124	Low Bias			
Pentachlorophenol	0.270	0.250	"	1.25		21.6	10-156				
Phenanthrene	0.780	0.0500	"	1.25		62.4	24-127				
Pyrene	0.880	0.0500	"	1.25		70.4	31-132				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB51980 - EPA 3535A											
Blank (BB51980-BLK1) Blank								Prepared: 02/28/2025 Analyzed: 03/03/2025			
1,4-Dioxane	ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8	*4.32*		*"*	*4.00*		*108*	*36.6-118*				
LCS (BB51980-BS1) LCS								Prepared: 02/28/2025 Analyzed: 03/03/2025			
1,4-Dioxane	3.70	0.300	ug/L	4.00		92.4	50-130				
Surrogate: 1,4-Dioxane-d8	*4.16*		*"*	*4.00*		*104*	*36.6-118*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50414 - EPA 1633 Prep											
Blank (BC50414-BLK1) Blank									Prepared: 03/06/2025 Analyzed: 03/07/2025		
Perfluorobutanesulfonic acid (PFBS)	ND	1.77	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.83	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	1.86	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	4.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.91	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.93	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	7.60	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	7.68	"								
Perfluoro-n-butanoic acid (PFBA)	ND	8.00	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.56	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	4.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	4.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	4.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.88	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	ND	7.50	"								
HFPO-DA (Gen-X)	ND	8.00	"								
11CL-PF3OUdS	ND	7.56	"								
9CL-PF3ONS	ND	7.48	"								
ADONA	ND	7.56	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	1.94	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.92	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	5.00	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	25.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	25.0	"								
N-MeFOSE	ND	20.0	"								
N-MeFOSA	ND	2.00	"								
N-EtFOSE	ND	20.0	"								
N-EtFOSA	ND	2.00	"								
Surrogate: M3PFBS	*32.4*		*"*	*23.3*		*139*	*25-150*				
Surrogate: M5PFHxA	*30.7*		*"*	*25.0*		*123*	*25-150*				
Surrogate: M4PFHpA	*34.1*		*"*	*25.0*		*136*	*25-150*				
Surrogate: M3PFHxS	*31.2*		*"*	*23.7*		*132*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*30.9*		*"*	*25.0*		*124*	*25-150*				
Surrogate: M6PFDA	*15.4*		*"*	*12.5*		*123*	*25-150*				
Surrogate: M7PFUdA	*16.7*		*"*	*12.5*		*133*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*15.1*		*"*	*12.5*		*121*	*25-150*				
Surrogate: M2PFTeDA	*9.93*		*"*	*12.5*		*79.4*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50414 - EPA 1633 Prep											
Blank (BC50414-BLK1) Blank								Prepared: 03/06/2025 Analyzed: 03/07/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.30*		*ng/L*	*100*		*2.30*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*25.1*		*"*	*24.0*		*105*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*27.2*		*"*	*50.0*		*54.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*27.1*		*"*	*25.0*		*108*	*10-150*				
Surrogate: d3-N-MeFOSAA	*46.8*		*"*	*50.0*		*93.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*47.8*		*"*	*50.0*		*95.6*	*25-150*				
Surrogate: M2-6:2 FTS	*69.4*		*"*	*47.6*		*146*	*25-200*				
Surrogate: M2-8:2 FTS	*61.8*		*"*	*48.0*		*129*	*25-200*				
Surrogate: M9PFNA	*16.5*		*"*	*12.5*		*132*	*25-150*				
Surrogate: M2-4:2 FTS	*75.0*		*"*	*46.9*		*160*	*25-150*				
Surrogate: d-N-MeFOSA	*25.4*		*"*	*25.0*		*101*	*25-150*				
Surrogate: d-N-EtFOSA	*21.8*		*"*	*25.0*		*87.0*	*25-150*				
Surrogate: M3HFPO-DA	*139*		*"*	*100*		*139*	*25-150*				
Surrogate: d9-N-EtFOSE	*135*		*"*	*250*		*54.1*	*25-150*				
Surrogate: d7-N-MeFOSE	*153*		*"*	*250*		*61.2*	*25-150*				
LCS (BC50414-BS1) LCS								Prepared: 03/06/2025 Analyzed: 03/07/2025			
Perfluorobutanesulfonic acid (PFBS)	34.9	1.77	ng/L	35.4		98.6	50-150				
Perfluorohexanoic acid (PFHxA)	40.4	2.00	"	40.0		101	50-150				
Perfluoroheptanoic acid (PFHpA)	38.5	2.00	"	40.0		96.2	50-150				
Perfluorohexanesulfonic acid (PFHxS)	37.7	1.83	"	36.6		103	50-150				
Perfluorooctanoic acid (PFOA)	41.0	2.00	"	40.0		103	50-150				
Perfluorooctanesulfonic acid (PFOS)	37.5	1.86	"	37.2		101	50-150				
Perfluorononanoic acid (PFNA)	42.0	2.00	"	40.0		105	50-150				
Perfluorodecanoic acid (PFDA)	38.8	2.00	"	40.0		97.1	50-150				
Perfluoroundecanoic acid (PFUnA)	36.1	2.00	"	40.0		90.3	50-150				
Perfluorododecanoic acid (PFDoA)	39.6	2.00	"	40.0		99.1	50-150				
Perfluorotridecanoic acid (PFTrDA)	54.4	2.00	"	40.0		136	50-150				
Perfluorotetradecanoic acid (PFTA)	38.4	2.00	"	40.0		96.0	50-150				
N-MeFOSAA	43.1	2.00	"	40.0		108	50-150				
N-EtFOSAA	46.4	2.00	"	40.0		116	50-150				
Perfluoropentanoic acid (PFPeA)	82.1	4.00	"	80.0		103	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	43.0	2.00	"	40.0		108	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	41.1	1.91	"	38.2		108	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	32.8	1.93	"	38.6		84.9	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	161	7.60	"	152		106	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	137	7.68	"	154		89.2	50-150				
Perfluoro-n-butanoic acid (PFBA)	134	8.00	"	160		84.1	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	83.9	3.56	"	71.2		118	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	80.4	4.00	"	80.0		101	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	13.2	4.00	"	80.0		16.4	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	131	4.00	"	80.0		164	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	37.6	1.88	"	37.6		100	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	165	7.50	"	150		110	50-150				
HFPO-DA (Gen-X)	97.2	8.00	"	80.0		122	50-150				
11CL-PF3OUdS	67.4	7.56	"	75.6		89.2	50-150				
9CL-PF3ONS	80.0	7.48	"	74.8		107	50-150				
ADONA	83.6	7.56	"	75.6		111	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50414 - EPA 1633 Prep											
LCS (BC50414-BS1) LCS								Prepared: 03/06/2025 Analyzed: 03/07/2025			
Perfluorododecanesulfonic acid (PFDoS)	24.0	1.94	ng/L	38.8		61.8	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	37.2	1.92	"	38.4		96.9	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	83.8	5.00	"	160		52.4	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	891	25.0	"	800		111	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	860	25.0	"	800		108	50-150				
N-MeFOSE	445	20.0	"	400		111	50-150				
N-MeFOSA	38.2	2.00	"	40.0		95.5	50-150				
N-EtFOSE	423	20.0	"	400		106	50-150				
N-EtFOSA	37.9	2.00	"	40.0		94.8	50-150				
Surrogate: M3PFBS	*30.1*		*"*	*23.3*		*129*	*25-150*				
Surrogate: M5PFHxA	*30.5*		*"*	*25.0*		*122*	*25-150*				
Surrogate: M4PFHpA	*32.9*		*"*	*25.0*		*132*	*25-150*				
Surrogate: M3PFHxS	*30.6*		*"*	*23.7*		*129*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*31.5*		*"*	*25.0*		*126*	*25-150*				
Surrogate: M6PFDA	*16.5*		*"*	*12.5*		*132*	*25-150*				
Surrogate: M7PFUdA	*16.6*		*"*	*12.5*		*133*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*12.0*		*"*	*12.5*		*96.1*	*25-150*				
Surrogate: M2PFTeDA	*8.45*		*"*	*12.5*		*67.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.31*		*"*	*100*		*2.31*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*31.8*		*"*	*24.0*		*133*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*28.3*		*"*	*50.0*		*56.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*33.3*		*"*	*25.0*		*133*	*10-150*				
Surrogate: d3-N-MeFOSAA	*73.0*		*"*	*50.0*		*146*	*25-150*				
Surrogate: d5-N-EtFOSAA	*69.0*		*"*	*50.0*		*138*	*25-150*				
Surrogate: M2-6:2 FTS	*69.3*		*"*	*47.6*		*146*	*25-200*				
Surrogate: M2-8:2 FTS	*87.8*		*"*	*48.0*		*183*	*25-200*				
Surrogate: M9PFNA	*15.8*		*"*	*12.5*		*126*	*25-150*				
Surrogate: M2-4:2 FTS	*68.3*		*"*	*46.9*		*146*	*25-150*				
Surrogate: d-N-MeFOSA	*29.7*		*"*	*25.0*		*119*	*25-150*				
Surrogate: d-N-EtFOSA	*25.5*		*"*	*25.0*		*102*	*25-150*				
Surrogate: M3HFPO-DA	*121*		*"*	*100*		*121*	*25-150*				
Surrogate: d9-N-EtFOSE	*162*		*"*	*250*		*64.8*	*25-150*				
Surrogate: d7-N-MeFOSE	*182*		*"*	*250*		*72.9*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50414 - EPA 1633 Prep											
LCS (BC50414-BS2) LCS								Prepared: 03/06/2025 Analyzed: 03/07/2025			
Perfluorobutanesulfonic acid (PFBS)	4.11	1.77	ng/L	3.54		116	50-150				
Perfluorohexanoic acid (PFHxA)	3.75	2.00	"	4.00		93.7	50-150				
Perfluoroheptanoic acid (PFHpA)	3.44	2.00	"	4.00		86.0	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.82	1.83	"	3.66		104	50-150				
Perfluorooctanoic acid (PFOA)	3.96	2.00	"	4.00		99.0	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.09	1.86	"	3.72		83.2	50-150				
Perfluorononanoic acid (PFNA)	3.67	2.00	"	4.00		91.7	50-150				
Perfluorodecanoic acid (PFDA)	3.25	2.00	"	4.00		81.2	50-150				
Perfluoroundecanoic acid (PFUnA)	4.18	2.00	"	4.00		104	50-150				
Perfluorododecanoic acid (PFDoA)	3.51	2.00	"	4.00		87.9	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.73	2.00	"	4.00		118	50-150				
Perfluorotetradecanoic acid (PFTA)	3.67	2.00	"	4.00		91.7	50-150				
N-MeFOSAA	3.77	2.00	"	4.00		94.2	50-150				
N-EtFOSAA	3.70	2.00	"	4.00		92.5	50-150				
Perfluoropentanoic acid (PFPeA)	7.66	4.00	"	8.00		95.7	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.04	2.00	"	4.00		101	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.52	1.91	"	3.82		92.1	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.54	1.93	"	3.86		91.6	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	14.3	7.60	"	15.2		94.3	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	14.9	7.68	"	15.4		97.3	50-150				
Perfluoro-n-butanoic acid (PFBA)	12.8	8.00	"	16.0		80.0	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.72	3.56	"	7.12		108	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	8.41	4.00	"	8.00		105	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.05	4.00	"	8.00		13.1	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	13.1	4.00	"	8.00		164	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	3.51	1.88	"	3.76		93.5	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	15.4	7.50	"	15.0		103	50-150				
HFPO-DA (Gen-X)	6.92	8.00	"	8.00		86.4	50-150				
11CL-PF3OUdS	6.44	7.56	"	7.56		85.1	50-150				
9CL-PF3ONS	7.03	7.48	"	7.48		94.0	50-150				
ADONA	7.26	7.56	"	7.56		96.0	50-150				
Perfluorododecanesulfonic acid (PFDoS)	2.26	1.94	"	3.88		58.3	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	3.82	1.92	"	3.84		99.4	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	11.2	5.00	"	16.0		69.8	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	77.4	25.0	"	80.0		96.7	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	82.7	25.0	"	80.0		103	50-150				
N-MeFOSE	44.5	20.0	"	40.0		111	50-150				
N-MeFOSA	5.74	2.00	"	4.00		143	50-150				
N-EtFOSE	43.1	20.0	"	40.0		108	50-150				
N-EtFOSA	3.81	2.00	"	4.00		95.2	50-150				
Surrogate: M3PFBS	*31.3*		*"*	*23.3*		*134*	*25-150*				
Surrogate: M5PFHxA	*31.7*		*"*	*25.0*		*127*	*25-150*				
Surrogate: M4PFHpA	*34.2*		*"*	*25.0*		*137*	*25-150*				
Surrogate: M3PFHxS	*33.8*		*"*	*23.7*		*143*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*33.8*		*"*	*25.0*		*135*	*25-150*				
Surrogate: M6PFDA	*17.3*		*"*	*12.5*		*139*	*25-150*				
Surrogate: M7PFUdA	*17.0*		*"*	*12.5*		*136*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*14.7*		*"*	*12.5*		*118*	*25-150*				
Surrogate: M2PFTeDA	*10.7*		*"*	*12.5*		*85.6*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50414 - EPA 1633 Prep											
LCS (BC50414-BS2) LCS							Prepared: 03/06/2025 Analyzed: 03/07/2025				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.65*		*ng/L*	*100*		*1.65*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*33.8*		*"*	*24.0*		*141*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*24.9*		*"*	*50.0*		*49.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*34.2*		*"*	*25.0*		*137*	*10-150*				
Surrogate: d3-N-MeFOSAA	*70.1*		*"*	*50.0*		*140*	*25-150*				
Surrogate: d5-N-EtFOSAA	*80.1*		*"*	*50.0*		*160*	*25-150*				
Surrogate: M2-6:2 FTS	*75.9*		*"*	*47.6*		*160*	*25-200*				
Surrogate: M2-8:2 FTS	*94.6*		*"*	*48.0*		*197*	*25-200*				
Surrogate: M9PFNA	*16.4*		*"*	*12.5*		*132*	*25-150*				
Surrogate: M2-4:2 FTS	*76.8*		*"*	*46.9*		*164*	*25-150*				
Surrogate: d-N-MeFOSA	*28.0*		*"*	*25.0*		*112*	*25-150*				
Surrogate: d-N-EtFOSA	*26.9*		*"*	*25.0*		*108*	*25-150*				
Surrogate: M3HFPO-DA	*127*		*"*	*100*		*127*	*25-150*				
Surrogate: d9-N-EtFOSE	*186*		*"*	*250*		*74.3*	*25-150*				
Surrogate: d7-N-MeFOSE	*205*		*"*	*250*		*82.0*	*25-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50314 - EPA SW846-3510C Low Level											
Blank (BC50314-BLK1) Blank							Prepared: 03/05/2025 Analyzed: 03/06/2025				
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Chlordane, total	ND	0.200	"								
Surrogate: Decachlorobiphenyl	*0.117*		*"*	*0.200*		*58.3*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0964*		*"*	*0.200*		*48.2*	*30-150*				
LCS (BC50314-BS1) LCS							Prepared: 03/05/2025 Analyzed: 03/06/2025				
4,4'-DDD	0.0705	0.00400	ug/L	0.100		70.5	40-140			20	
4,4'-DDE	0.0614	0.00400	"	0.100		61.4	40-140			20	
4,4'-DDT	0.0803	0.00400	"	0.100		80.3	40-140			20	
Aldrin	0.0524	0.00400	"	0.100		52.4	40-140			20	
alpha-BHC	0.0659	0.00400	"	0.100		65.9	40-140			20	
alpha-Chlordane	0.0585	0.00400	"	0.100		58.5	40-140			20	
beta-BHC	0.0713	0.00400	"	0.100		71.3	40-140			20	
delta-BHC	0.0550	0.00400	"	0.100		55.0	40-140			20	
Dieldrin	0.0632	0.00200	"	0.100		63.2	40-140			20	
Endosulfan I	0.0642	0.00400	"	0.100		64.2	40-140			20	
Endosulfan II	0.0771	0.00400	"	0.100		77.1	40-140			20	
Endosulfan sulfate	0.0687	0.00400	"	0.100		68.7	40-140			20	
Endrin	0.0711	0.00400	"	0.100		71.1	40-140			20	
Endrin aldehyde	0.0768	0.0100	"	0.100		76.8	40-140			20	
Endrin ketone	0.0821	0.0100	"	0.100		82.1	40-140			20	
gamma-BHC (Lindane)	0.0699	0.00400	"	0.100		69.9	40-140			20	
gamma-Chlordane	0.0609	0.0100	"	0.100		60.9	40-140			20	
Heptachlor	0.0661	0.00400	"	0.100		66.1	40-140			20	
Heptachlor epoxide	0.0633	0.00400	"	0.100		63.3	40-140			20	
Methoxychlor	0.0878	0.00400	"	0.100		87.8	40-140			20	
Surrogate: Decachlorobiphenyl	*0.106*		*"*	*0.200*		*52.8*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0929*		*"*	*0.200*		*46.5*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50313 - EPA SW846-3510C Low Level											
Blank (BC50313-BLK2) Blank								Prepared: 03/05/2025 Analyzed: 03/06/2025			
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.0850*		*"*	*0.200*		*42.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0890*		*"*	*0.200*		*44.5*	*30-120*				
LCS (BC50313-BS2) LCS								Prepared: 03/05/2025 Analyzed: 03/06/2025			
Aroclor 1016	0.546	0.0500	ug/L	1.00		54.6	40-120				
Aroclor 1260	0.590	0.0500	"	1.00		59.0	40-120				
Surrogate: Tetrachloro-m-xylene	*0.0770*		*"*	*0.200*		*38.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0970*		*"*	*0.200*		*48.5*	*30-120*				
LCS Dup (BC50313-BSD2) LCS Dup								Prepared: 03/05/2025 Analyzed: 03/06/2025			
Aroclor 1016	0.611	0.0500	ug/L	1.00		61.1	40-120		11.2	30	
Aroclor 1260	0.669	0.0500	"	1.00		66.9	40-120		12.6	30	
Surrogate: Tetrachloro-m-xylene	*0.0940*		*"*	*0.200*		*47.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.109*		*"*	*0.200*		*54.5*	*30-120*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50076 - EPA 8151A											
Blank (BC50076-BLK1) Blank							Prepared & Analyzed: 03/04/2025				
2,4,5-T	ND	5.00	ug/L								
2,4,5-TP (Silvex)	ND	5.00	"								
2,4-D	ND	5.00	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*134*		*"*	*125*		*108*	*30-150*				
LCS (BC50076-BS1) LCS							Prepared & Analyzed: 03/04/2025				
2,4,5-T	18.2	5.00	ug/L	20.0		91.2	10-140				
2,4,5-TP (Silvex)	20.2	5.00	"	20.0		101	10-139				
2,4-D	18.5	5.00	"	20.0		92.5	10-140				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*146*		*"*	*125*		*117*	*30-150*				
LCS Dup (BC50076-BSD1) LCS Dup							Prepared & Analyzed: 03/04/2025				
2,4,5-T	17.0	5.00	ug/L	20.0		85.0	10-140		7.09	30	
2,4,5-TP (Silvex)	19.0	5.00	"	20.0		95.0	10-139		6.37	30	
2,4-D	17.8	5.00	"	20.0		88.8	10-140		4.14	30	
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*137*		*"*	*125*		*110*	*30-150*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50123 - EPA 3015A											
Blank (BC50123-BLK1) Blank								Prepared: 03/03/2025 Analyzed: 03/04/2025			
Aluminum	ND	0.0556	mg/L								
Barium	ND	0.0278	"								
Calcium	ND	0.0556	"								
Chromium	ND	0.00556	"								
Cobalt	ND	0.00444	"								
Copper	ND	0.0222	"								
Iron	ND	0.278	"								
Lead	ND	0.00556	"								
Magnesium	ND	0.0556	"								
Manganese	ND	0.00556	"								
Nickel	ND	0.0111	"								
Potassium	ND	0.0556	"								
Silver	ND	0.00556	"								
Sodium	ND	0.556	"								
Vanadium	ND	0.0111	"								
Zinc	ND	0.0278	"								
LCS (BC50123-BS1) LCS								Prepared: 03/03/2025 Analyzed: 03/04/2025			
Aluminum	2.01		ug/mL	2.00		100	80-120				
Barium	2.11		"	2.00		105	80-120				
Calcium	1.47		"	1.00		147	80-120	High Bias			
Chromium	0.211		"	0.200		105	80-120				
Cobalt	0.537		"	0.500		107	80-120				
Copper	0.273		"	0.250		109	80-120				
Iron	0.994		"	1.00		99.4	80-120				
Lead	0.532		"	0.500		106	80-120				
Magnesium	1.09		"	1.00		109	80-120				
Manganese	0.526		"	0.500		105	80-120				
Nickel	0.540		"	0.500		108	80-120				
Potassium	1.03		"	1.00		103	80-120				
Silver	0.0538		"	0.0500		108	80-120				
Sodium	1.42		"	1.00		142	80-120	High Bias			
Vanadium	0.509		"	0.500		102	80-120				
Zinc	0.523		"	0.500		105	80-120				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50123 - EPA 3015A											
Duplicate (BC50123-DUP1) Duplicate	*Source sample: 25B1548-01 (TMW01_022725)								Prepared: 03/03/2025 Analyzed: 03/04/2025		
Aluminum	1.31	0.0556	mg/L		1.20				8.72	20	
Barium	0.574	0.0278	"		0.572				0.349	20	
Calcium	302	0.0556	"		301				0.427	20	
Chromium	ND	0.00556	"		ND					20	
Cobalt	ND	0.00444	"		ND					20	
Copper	ND	0.0222	"		ND					20	
Iron	35.9	0.278	"		35.5				0.906	20	
Lead	0.0132	0.00556	"		0.0144				8.84	20	
Magnesium	155	0.0556	"		155				0.0654	20	
Manganese	8.66	0.00556	"		8.64				0.278	20	
Nickel	ND	0.0111	"		ND					20	
Potassium	40.6	0.0556	"		40.5				0.247	20	
Silver	ND	0.00556	"		ND					20	
Sodium	1040	0.556	"		1040				0.329	20	
Vanadium	ND	0.0111	"		ND					20	
Zinc	0.0333	0.0278	"		0.0292				13.1	20	
Matrix Spike (BC50123-MS1) Matrix Spike	*Source sample: 25B1548-01 (TMW01_022725)								Prepared: 03/03/2025 Analyzed: 03/04/2025		
Aluminum	4.17	0.0556	mg/L	2.22	1.20	134	75-125	High Bias			
Barium	2.78	0.0278	"	2.22	0.572	99.2	75-125				
Calcium	301	0.0556	"	1.11	301	NR	75-125	Low Bias			
Chromium	0.226	0.00556	"	0.222	ND	102	75-125				
Cobalt	0.546	0.00444	"	0.556	ND	98.4	75-125				
Copper	0.335	0.0222	"	0.278	ND	120	75-125				
Iron	36.9	0.278	"	1.11	35.5	120	75-125				
Lead	0.544	0.00556	"	0.556	0.0144	95.2	75-125				
Magnesium	155	0.0556	"	1.11	155	52.0	75-125	Low Bias			
Manganese	9.08	0.00556	"	0.556	8.64	80.2	75-125				
Nickel	0.552	0.0111	"	0.556	ND	99.4	75-125				
Potassium	41.9	0.0556	"	1.11	40.5	131	75-125	High Bias			
Silver	0.0628	0.00556	"	0.0556	ND	113	75-125				
Sodium	1030	0.556	"	1.11	1040	NR	75-125	Low Bias			
Vanadium	0.578	0.0111	"	0.556	ND	104	75-125				
Zinc	0.549	0.0278	"	0.556	0.0292	93.5	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50123 - EPA 3015A											
Post Spike (BC50123-PS1) Post Spike *Source sample: 25B1548-01 (TMW01_022725)								Prepared: 03/03/2025 Analyzed: 03/04/2025			
Aluminum	3.67		ug/mL	2.00	1.08	129	75-125	High Bias			
Barium	2.55		"	2.00	0.515	102	75-125				
Calcium	269		"	1.00	271	NR	75-125	Low Bias			
Chromium	0.209		"	0.200	0.00330	103	75-125				
Cobalt	0.505		"	0.500	0.000700	101	75-125				
Copper	0.302		"	0.250	0.00620	118	75-125				
Iron	32.8		"	1.00	32.0	86.2	75-125				
Lead	0.503		"	0.500	0.0130	98.0	75-125				
Magnesium	138		"	1.00	139	NR	75-125	Low Bias			
Manganese	8.17		"	0.500	7.77	79.6	75-125				
Nickel	0.507		"	0.500	0.00380	101	75-125				
Potassium	37.2		"	1.00	36.4	81.1	75-125				
Silver	0.0611		"	0.0500	0.00170	119	75-125				
Sodium	917		"	1.00	937	NR	75-125	Low Bias			
Vanadium	0.534		"	0.500	0.00430	106	75-125				
Zinc	0.509		"	0.500	0.0263	96.6	75-125				
Batch BC50124 - EPA 3015A											
Blank (BC50124-BLK1) Blank								Prepared: 03/03/2025 Analyzed: 03/05/2025			
Aluminum - Dissolved	ND	0.0556	mg/L								
Barium - Dissolved	ND	0.0278	"								
Calcium - Dissolved	ND	0.0556	"								
Chromium - Dissolved	ND	0.00556	"								
Cobalt - Dissolved	ND	0.00444	"								
Copper - Dissolved	ND	0.0222	"								
Iron - Dissolved	ND	0.278	"								
Lead - Dissolved	ND	0.00556	"								
Magnesium - Dissolved	ND	0.0556	"								
Manganese - Dissolved	ND	0.00556	"								
Nickel - Dissolved	ND	0.0111	"								
Potassium - Dissolved	ND	0.0556	"								
Silver - Dissolved	ND	0.00556	"								
Sodium - Dissolved	ND	0.556	"								
Vanadium - Dissolved	ND	0.0111	"								
Zinc - Dissolved	ND	0.0278	"								

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50124 - EPA 3015A											
LCS (BC50124-BS1) LCS								Prepared: 03/03/2025 Analyzed: 03/05/2025			
Aluminum - Dissolved	1.98		ug/mL	2.00		99.2	80-120				
Barium - Dissolved	1.94		"	2.00		97.2	80-120				
Calcium - Dissolved	1.22		"	1.00		122	80-120	High Bias			
Chromium - Dissolved	0.200		"	0.200		99.8	80-120				
Cobalt - Dissolved	0.492		"	0.500		98.4	80-120				
Copper - Dissolved	0.254		"	0.250		101	80-120				
Iron - Dissolved	1.06		"	1.00		106	80-120				
Lead - Dissolved	0.472		"	0.500		94.4	80-120				
Magnesium - Dissolved	1.03		"	1.00		103	80-120				
Manganese - Dissolved	0.494		"	0.500		98.8	80-120				
Nickel - Dissolved	0.489		"	0.500		97.9	80-120				
Potassium - Dissolved	1.11		"	1.00		111	80-120				
Silver - Dissolved	0.0453		"	0.0500		90.6	80-120				
Sodium - Dissolved	1.24		"	1.00		124	80-120	High Bias			
Vanadium - Dissolved	0.479		"	0.500		95.8	80-120				
Zinc - Dissolved	0.487		"	0.500		97.4	80-120				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50122 - EPA 3015A											
Blank (BC50122-BLK1) Blank								Prepared: 03/03/2025 Analyzed: 03/04/2025			
Antimony	ND	1.11	ug/L								
Arsenic	ND	1.11	"								
Beryllium	ND	0.333	"								
Cadmium	ND	0.556	"								
Selenium	ND	1.11	"								
Thallium	ND	1.11	"								
LCS (BC50122-BS1) LCS								Prepared: 03/03/2025 Analyzed: 03/04/2025			
Antimony	39.3		ug/L	50.0		78.6	80-120	Low Bias			
Arsenic	45.6		"	50.0		91.2	80-120				
Beryllium	49.5		"	50.0		99.0	80-120				
Cadmium	37.6		"	50.0		75.2	80-120	Low Bias			
Selenium	45.5		"	50.0		90.9	80-120				
Thallium	46.0		"	50.0		92.0	80-120				
Batch BC50125 - EPA 3015A											
Blank (BC50125-BLK1) Blank								Prepared: 03/03/2025 Analyzed: 03/04/2025			
Antimony - Dissolved	ND	1.11	ug/L								
Arsenic - Dissolved	ND	1.11	"								
Beryllium - Dissolved	ND	0.333	"								
Cadmium - Dissolved	ND	0.556	"								
Selenium - Dissolved	ND	1.11	"								
Thallium - Dissolved	ND	1.11	"								
LCS (BC50125-BS1) LCS								Prepared: 03/03/2025 Analyzed: 03/04/2025			
Antimony - Dissolved	43.3		ug/L	50.0		86.7	80-120				
Arsenic - Dissolved	44.0		"	50.0		88.1	80-120				
Beryllium - Dissolved	43.2		"	50.0		86.5	80-120				
Cadmium - Dissolved	40.3		"	50.0		80.6	80-120				
Selenium - Dissolved	46.3		"	50.0		92.7	80-120				
Thallium - Dissolved	46.6		"	50.0		93.3	80-120				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50125 - EPA 3015A											
Duplicate (BC50125-DUP1) Duplicate	*Source sample: 25B1548-01 (TMW01_022725)							Prepared: 03/03/2025 Analyzed: 03/04/2025			
Antimony - Dissolved	ND	1.11	ug/L		ND					20	
Arsenic - Dissolved	ND	1.11	"		ND					20	
Beryllium - Dissolved	ND	0.333	"		ND					20	
Cadmium - Dissolved	ND	0.556	"		ND					20	
Selenium - Dissolved	5.20	1.11	"		1.25				122	20	Non-dir.
Thallium - Dissolved	ND	1.11	"		ND					20	
Matrix Spike (BC50125-MS1) Matrix Spike	*Source sample: 25B1548-01 (TMW01_022725)							Prepared: 03/03/2025 Analyzed: 03/04/2025			
Antimony - Dissolved	52.3		ug/L	50.0	0.070	105	75-125				
Arsenic - Dissolved	53.3		"	50.0	0.729	105	75-125				
Beryllium - Dissolved	23.6		"	50.0	0.007	47.2	75-125	Low Bias			
Cadmium - Dissolved	41.3		"	50.0	0.047	82.5	75-125				
Selenium - Dissolved	59.1		"	50.0	1.13	116	75-125				
Thallium - Dissolved	53.1		"	50.0	0.681	105	75-125				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50151 - EPA SW846-7470A												
Blank (BC50151-BLK1)	Blank								Prepared & Analyzed: 03/04/2025			
Mercury		ND	0.0002	mg/L								
Blank (BC50151-BLK2)	Blank								Prepared & Analyzed: 03/04/2025			
Mercury		ND	0.0002	mg/L								
LCS (BC50151-BS1)	LCS								Prepared & Analyzed: 03/04/2025			
Mercury		0.0019433	0.0002	mg/L	0.00200		97.2	80-120				
LCS (BC50151-BS2)	LCS								Prepared & Analyzed: 03/04/2025			
Mercury		0.0019376	0.0002	mg/L	0.00200		96.9	80-120				
Batch BC50152 - EPA SW846-7470A												
Blank (BC50152-BLK1)	Blank								Prepared & Analyzed: 03/04/2025			
Mercury - Dissolved		ND	0.0002	mg/L								
Blank (BC50152-BLK2)	Blank								Prepared & Analyzed: 03/04/2025			
Mercury - Dissolved		ND	0.0002	mg/L								
LCS (BC50152-BS1)	LCS								Prepared & Analyzed: 03/04/2025			
Mercury - Dissolved		0.0019	0.0002	mg/L	0.00200		97.0	80-120				
LCS (BC50152-BS2)	LCS								Prepared & Analyzed: 03/04/2025			
Mercury - Dissolved		0.0019	0.0002	mg/L	0.00200		95.4	80-120				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
25B1548-01	TMW01_022725	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

S-HI	Surrogate recovery is above acceptance limits. No target compound is detected in sample.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
M-CCV1	The recovery for this element in the Continuing Calibration Verification (CCV) was outside the 90-110% recovery criteria.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This legal document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | 2161 Whitesville Rd Toms River, NJ 08755 | clientservices@yorklab.com | 800-306-YORK

YORK Project Number: 25B1548

Page 1 of 2

Report To:
Company: Langan
Address: 368 Ninth Ave, 8th Fl NY, NY 10001
Phone: 212-479-5400
Contact: Lexi Haley
E-mail: LHaley@langan.com

Invoice To:
Company:
Address:
Phone:
Contact:
E-mail:

YOUR Project Name / Number: Ring Road at Ferry Point Park Phase II 17077300

PO Number:

Samples Collected From: NY [X] NJ [ ] CT [ ] PA [ ] Other: (please specify)

Turn-Around Time: RUSH - Next Day; RUSH - Two Day; RUSH - Three Day; RUSH - Four Day; RUSH - Five Day; Standard (6-9 Day) [X]; PFAS Standard 7-10 Day

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Savannah Walters

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Preservative (please list number of containers)

Analyses Requested

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other:	Part 375 VOCs	Part 375 SVOCs, PCBs, Pest.	Herb, Tot Metals (incl Hex)	tri chromium & total cyanide	(dissolved & total), 1,4 dioxane	PFAS							Grab or Comp. G/C
TMW01-022725	2/27/25	1330	GW	10	3		2		1					X	X	X	X	X	X							

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered [X]
Lab Filtered [ ]

Comments: please cc: datamanagement@langan.com areach@langan.com & swalters@langan.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N

Custody Seals: Y / N; Containers Intact: Y / N; COC/Labels Agree: Y / N; Preservation Confirmed: Y / N
COC Complete: Y / N; COC Received: Y / N; Appropriate Sample Volumes: Y / N; Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N; Samples Submitted within Holding Times: Y / N; Corrective Action Form Required: Y / N

Relinquished by / Company	Date/Time	Received by / Company	Date/Time
1. Savannah Walters (Langan)	02/27/25 1634	1. [signature]	2-27-25 16:34
2. [signature]	2/27/25 1735 S.O	2. [signature]	2-27-25 1735
3. [signature]	2/27/25 17:45	3. [signature]	2/27/25 17:45
4. [signature]	2/27/25 20:00	4.	

Samples Received in LAB by: [signature] Date/Time: 2/27/25 20:00 Temperature: 2.3 Degrees C

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This legal document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | 2161 Whitesville Rd Toms River, NJ 08755 | clientservices@yorklab.com | 800-306-YORK

YORK Project Number: 25B1548

Report To:
Company: Langan
Address: 368 Ninth Ave 8th Fl NY, NY 10001
Phone.: 212-479-5900
Contact: Lexi Haley
E-mail: LHaley@langan.com

Invoice To:
Company:
Address:
Phone.:
Contact:
E-mail:

YOUR Project Name / Number: Ring Road @ Ferry Point Park Phase II 170773001

PO Number:

Samples Collected From: NY ☒ | NJ | CT | PA | Other: (please specify)

Turn-Around Time: RUSH - Next Day | RUSH - Two Day | RUSH - Three Day | RUSH - Four Day | RUSH - Five Day | Standard (6-9 Day) ☒ | PFAS Standard 7-10 Day

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Savannah Walters

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Preservative (please list number of containers)

Analyses Requested

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other: DI water	Part 375 VOCs	Part 375 SVOCs, PCBs	PESV, Herb, TPH, metals (Ind)	hex/tri chromium, ethyl cyanide, 1-4 dioxane	PFAS						Grab or Comp. G/C
SB01-0-2	2/27/25	0907	S	4		1							2	X	X	X	X	X	X					
SB01-5-7		0920		3										X	X	X	X	X						
SB02-0-2		1207												X	X	X	X	X						
SB02-5-7		1218												X	X	X	X	X						
SB03-0-2		1458												X	X	X	X	X						
SB03-5-7		1506												X	X	X	X	X						
SB04-0-2 (MS/MSD)		1540		9		3							6	X	X	X	X	X						
SB04-5-7		1547		3		1							2	X	X	X	X	X						
SODUP01-022725		—		3		1							2	X	X	X	X	X						
~~[illegible]~~																								

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered | Lab Filtered

Comments: please cc: datamanagement@langan.com areach@langan.com & swalters@langan.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N | Containers Intact: Y / N | COC/Labels Agree: Y / N | Preservation Confirmed: Y / N
COC Complete: Y / N | COC Received: Y / N | Appropriate Sample Volumes: Y / N | Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N | Samples Submitted within Holding Times: Y / N | Corrective Action Form Required: Y / N

Relinquished by / Company	Date/Time	Received by / Company	Date/Time	Relinquished by / Company	Date/Time
1. Savannah Walters (Langan)	2/27/25 1634	1. [signature]	2-27-25 16:34	2. [signature]	2-27-25 1735
2. [signature]	2/27/25 1735	3. [signature]	2/27/25 1735	3. [signature]	2/27/25 1735
4. [signature]	2/27/25 20:00	4.		Samples Received in LAB by [signature]	2/27/25 20:00 — Temperature 23 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Report Date: 03/10/2025
Client Project ID: 170773001
York Project (SDG) No.: 25B1634

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/10/2025
Client Project ID: 170773001
York Project (SDG) No.: 25B1634

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 28, 2025 and listed below. The project was identified as your project: **170773001**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25B1634-01	TMW07_022825	Ground Water	02/28/2025	02/28/2025
25B1634-02	TMW10_022825	Ground Water	02/28/2025	02/28/2025
25B1634-03	GWTB01_022825	Water	02/28/2025	02/28/2025

General Notes for York Project (SDG) No.: 25B1634

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By **Date:** 03/10/2025

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: TMW07_022825 **York Sample ID:** 25B1634-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 2:40 pm	02/28/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: TMW07_022825 **York Sample ID:** 25B1634-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 2:40 pm	02/28/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**1.60**		ug/L	1.34	2.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: TMW07_022825 **York Sample ID:** 25B1634-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 2:40 pm	02/28/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: TMW07_022825 **York Sample ID:** 25B1634-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 2:40 pm	02/28/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/05/2025 09:39	03/05/2025 16:47	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.7 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*94.7 %*	*79-122*

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW07_022825 **York Sample ID:** 25B1634-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 2:40 pm	02/28/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-48-7	2-Methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
99-09-2	3-Nitroaniline	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		ug/L	5.00	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		ug/L	5.00	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	QL-02, CAL-E, CCVE	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **TMW07_022825** **York Sample ID:** **25B1634-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 2:40 pm	02/28/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.00	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	NELAC-NY10854,PADEP-68-04440		
77-47-4	Hexachlorocyclopentadiene	ND	QL-02, CCVE	ug/L	5.00	10.0	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND	QL-02	ug/L	0.750	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	QL-02, ICVE	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:24	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*41.2 %*	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*24.5 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*65.4 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*63.4 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*73.8 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*75.8 %*	*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **TMW07_022825** **York Sample ID:** **25B1634-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 2:40 pm	02/28/2025

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
208-96-8	Acenaphthylene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
120-12-7	**Anthracene**	**0.0600**		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
1912-24-9	Atrazine	ND		ug/L	0.500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
218-01-9	Chrysene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
206-44-0	**Fluoranthene**	**0.100**		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
86-73-7	Fluorene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
118-74-1	Hexachlorobenzene	ND		ug/L	0.0200	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
67-72-1	Hexachloroethane	ND		ug/L	0.500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
91-20-3	Naphthalene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
98-95-3	Nitrobenzene	ND	ICVE	ug/L	0.250	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
87-86-5	Pentachlorophenol	ND		ug/L	0.250	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
85-01-8	**Phenanthrene**	**0.0600**		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: TMW07_022825 **York Sample ID:** 25B1634-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 2:40 pm	02/28/2025

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	**Pyrene**	**0.120**	CCVE	ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 21:15	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270E SIM	03/04/2025 16:47	03/05/2025 18:46	SS
							Certifications: NJDEP-CT005,NELAC-NY10854			

	Surrogate Recoveries	Result		Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*120 %*	S-08, S-HI	*36.6-118*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**9.76**		ng/L	0.431	1.62	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:10	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**4.70**		ng/L	0.321	1.84	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:10	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**5.44**		ng/L	0.652	1.84	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:10	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**2.82**		ng/L	0.624	1.68	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:10	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
335-67-1	**Perfluorooctanoic acid (PFOA)**	**31.8**		ng/L	0.386	1.84	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:10	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.753	1.71	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:10	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
375-95-1	**Perfluorononanoic acid (PFNA)**	**0.487**	J	ng/L	0.477	1.84	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:10	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.688	1.84	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:10	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.04	1.84	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:10	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.808	1.84	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:10	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.679	1.84	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:10	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.633	1.84	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:10	AM
								Certifications: NJDEP-NY037			

Sample Information

Client Sample ID: TMW07_022825 **York Sample ID:** 25B1634-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 2:40 pm	02/28/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2355-31-9	N-MeFOSAA	ND		ng/L	0.725	1.84	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:10	AM
2991-50-6	N-EtFOSAA	ND		ng/L	0.945	1.84	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:10	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**6.70**		ng/L	0.211	3.67	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:10	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.808	1.84	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:10	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.835	1.75	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:10	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.21	1.77	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:10	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	6.88	6.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:10	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.88	7.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:10	AM
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**11.7**		ng/L	0.303	7.34	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:10	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.459	3.27	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/06/2025 12:49	03/07/2025 13:10	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	1.96	3.67	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/06/2025 12:49	03/07/2025 13:10	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.229	3.67	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/06/2025 12:49	03/07/2025 13:10	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.340	3.67	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/06/2025 12:49	03/07/2025 13:10	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.698	1.73	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:10	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.64	6.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:10	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	2.96	7.34	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:10	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.27	6.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:10	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.643	6.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:10	AM
919005-14-4	ADONA	ND		ng/L	0.487	6.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:10	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.854	1.78	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:10	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.789	1.76	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:10	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.86	4.59	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:10	AM

Sample Information

Client Sample ID: TMW07_022825 **York Sample ID:** 25B1634-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 2:40 pm	02/28/2025

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	6.73	22.9	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:10	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	8.69	22.9	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:10	AM
24448-09-7	* N-MeFOSE	ND		ng/L	3.66	18.4	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:10	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.45	1.84	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:10	AM
1691-99-2	* N-EtFOSE	ND		ng/L	3.66	18.4	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:10	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.65	1.84	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:10	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*116 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*132 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*154 %*	PFSu-H	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*128 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*134 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*119 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*103 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*79.9 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*39.5 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*60.1 %*		*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*157 %*	PFSu-H	*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*103 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*135 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*139 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*115 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*350 %*	PFSu-H	*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*223 %*	PFSu-H	*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*147 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*339 %*	PFSu-H	*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*61.2 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*53.2 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*154 %*	PFSu-H	*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*45.6 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*58.5 %*		*25-150*

Sample Information

Client Sample ID: TMW07_022825 **York Sample ID:** 25B1634-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 2:40 pm	02/28/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW07_022825 **York Sample ID:** 25B1634-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 2:40 pm	02/28/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:41	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*38.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*45.3 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 15:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 15:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 15:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 15:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 15:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 15:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 15:39	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 15:39	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*49.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*46.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	03/04/2025 08:00	03/04/2025 15:30	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	03/04/2025 08:00	03/04/2025 15:30	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	03/04/2025 08:00	03/04/2025 15:30	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **TMW07_022825** **York Sample ID:** **25B1634-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 2:40 pm	02/28/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*66.0 %*			*30-150*					

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**2.16**	M-BS	mg/L	0.0556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**0.244**		mg/L	0.0556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**0.640**	M-BS	mg/L	0.0556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**1.69**		mg/L	0.556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**0.0349**		mg/L	0.0278	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:01	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICP Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **TMW07_022825** **York Sample ID:** **25B1634-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 2:40 pm	02/28/2025

Metals, Target Analyte, ICP Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.443**		mg/L	0.0278	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**298**	M-BS	mg/L	0.0556	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**0.00511**		mg/L	0.00444	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**38.8**		mg/L	0.278	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**122**		mg/L	0.0556	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**6.94**		mg/L	0.00556	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**0.0156**		mg/L	0.0111	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**21.0**		mg/L	0.0556	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**884**		mg/L	0.556	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**0.0287**		mg/L	0.0278	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:52	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-CCV 1	ug/L	1.11	1	EPA 6020B	03/05/2025 08:22	03/05/2025 16:17	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.38**		ug/L	1.11	1	EPA 6020B	03/05/2025 08:22	03/05/2025 16:17	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.344**		ug/L	0.333	1	EPA 6020B	03/05/2025 08:22	03/05/2025 16:17	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW07_022825 **York Sample ID:** 25B1634-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 2:40 pm	02/28/2025

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND	M-CCV 1	ug/L	0.556	1	EPA 6020B	03/05/2025 08:22	03/05/2025 16:17	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**1.84**		ug/L	1.11	1	EPA 6020B	03/05/2025 08:22	03/05/2025 16:17	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/05/2025 08:22	03/05/2025 16:17	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	03/05/2025 08:34	03/06/2025 12:48	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.02**		ug/L	1.11	1	EPA 6020B	03/05/2025 08:34	03/06/2025 12:48	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	03/05/2025 08:34	03/06/2025 12:48	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	03/05/2025 08:34	03/06/2025 12:48	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B	03/05/2025 08:34	03/06/2025 12:48	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/05/2025 08:34	03/06/2025 12:48	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/05/2025 08:09	03/05/2025 08:09	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/05/2025 08:03	03/05/2025 08:03	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: TMW07_022825 **York Sample ID:** 25B1634-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 2:40 pm	02/28/2025

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	02/28/2025 20:05	02/28/2025 20:53	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	03/06/2025 14:20	03/06/2025 14:20	AD
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C-2016 / E-2016	03/05/2025 17:13	03/05/2025 21:00	SML
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW10_022825 **York Sample ID:** 25B1634-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 10:21 am	02/28/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: TMW10_022825 **York Sample ID:** 25B1634-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 10:21 am	02/28/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND		ug/L	1.34	2.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: TMW10_022825 **York Sample ID:** 25B1634-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 10:21 am	02/28/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: TMW10_022825 **York Sample ID:** 25B1634-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 10:21 am	02/28/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/05/2025 09:39	03/05/2025 17:15	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*101 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*95.0 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*94.7 %*	*79-122*

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW10_022825 **York Sample ID:** 25B1634-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 10:21 am	02/28/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-48-7	2-Methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
99-09-2	3-Nitroaniline	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		ug/L	5.00	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		ug/L	5.00	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E, CCVE, QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW10_022825 **York Sample ID:** 25B1634-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 10:21 am	02/28/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.00	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	NELAC-NY10854,PADEP-68-04440		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, QL-02	ug/L	5.00	10.0	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND	QL-02	ug/L	0.750	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	ICVE, QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/04/2025 08:20	03/04/2025 18:53	AK
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*39.3 %*	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*23.5 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*62.3 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*61.4 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*66.5 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*67.6 %*	*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **TMW10_022825** **York Sample ID:** **25B1634-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 10:21 am	02/28/2025

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
208-96-8	Acenaphthylene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
120-12-7	Anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
1912-24-9	Atrazine	ND		ug/L	0.500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
218-01-9	Chrysene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
206-44-0	Fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
86-73-7	Fluorene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
118-74-1	Hexachlorobenzene	ND		ug/L	0.0200	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
87-68-3	Hexachlorobutadiene	ND		ug/L	0.500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
67-72-1	Hexachloroethane	ND		ug/L	0.500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
91-20-3	Naphthalene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
98-95-3	Nitrobenzene	ND	ICVE	ug/L	0.250	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
87-86-5	Pentachlorophenol	ND		ug/L	0.250	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
85-01-8	Phenanthrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: TMW10_022825 **York Sample ID:** 25B1634-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 10:21 am	02/28/2025

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	Pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/04/2025 08:27	03/04/2025 22:16	AAK
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270E SIM	03/04/2025 16:47	03/05/2025 19:01	SS
							Certifications: NJDEP-CT005,NELAC-NY10854			

	Surrogate Recoveries	Result	Flag	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*128 %*	S-08, S-HI	*36.6-118*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**7.06**		ng/L	0.426	1.60	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:26	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**9.90**		ng/L	0.317	1.81	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:26	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**9.83**		ng/L	0.643	1.81	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:26	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**2.19**		ng/L	0.616	1.66	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:26	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
335-67-1	**Perfluorooctanoic acid (PFOA)**	**47.2**		ng/L	0.381	1.81	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:26	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.743	1.69	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:26	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
375-95-1	**Perfluorononanoic acid (PFNA)**	**0.574**	J	ng/L	0.471	1.81	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:26	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.679	1.81	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:26	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.02	1.81	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:26	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.797	1.81	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:26	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.670	1.81	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:26	AM
								Certifications: NELAC-NY12058,NJDEP-NY037			
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.625	1.81	1	EPA 1633 Draft 3	03/06/2025 12:49	03/07/2025 13:26	AM
								Certifications: NJDEP-NY037			

Sample Information

Client Sample ID: TMW10_022825 **York Sample ID:** 25B1634-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 10:21 am	02/28/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2355-31-9	N-MeFOSAA	ND		ng/L	0.716	1.81	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:26	AM
2991-50-6	N-EtFOSAA	ND		ng/L	0.933	1.81	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:26	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**12.0**		ng/L	0.208	3.62	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:26	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.797	1.81	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:26	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.824	1.73	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:26	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.20	1.75	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:26	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	6.79	6.89	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:26	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.86	6.96	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:26	AM
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**11.9**		ng/L	0.299	7.25	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:26	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.453	3.23	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/06/2025 12:49	03/07/2025 13:26	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	1.94	3.62	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/06/2025 12:49	03/07/2025 13:26	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.226	3.62	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/06/2025 12:49	03/07/2025 13:26	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.335	3.62	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/06/2025 12:49	03/07/2025 13:26	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.689	1.70	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:26	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.62	6.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:26	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	2.93	7.25	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:26	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.25	6.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:26	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.634	6.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:26	AM
919005-14-4	ADONA	ND		ng/L	0.480	6.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:26	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.843	1.76	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:26	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.779	1.74	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/06/2025 12:49	03/07/2025 13:26	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.84	4.53	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:26	AM

Sample Information

Client Sample ID: TMW10_022825 **York Sample ID:** 25B1634-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 10:21 am	02/28/2025

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	6.64	22.6	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:26	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	8.58	22.6	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:26	AM
24448-09-7	* N-MeFOSE	ND		ng/L	3.61	18.1	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:26	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.43	1.81	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:26	AM
1691-99-2	* N-EtFOSE	ND		ng/L	3.61	18.1	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:26	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.63	1.81	1	EPA 1633 Draft 3 Certifications:	03/06/2025 12:49	03/07/2025 13:26	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*108 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*140 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*174 %*	PFSu-H	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*115 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*125 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*109 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*86.7 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*68.6 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*39.0 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*74.4 %*		*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*144 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*107 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*119 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*128 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*126 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*395 %*	PFSu-H	*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*217 %*	PFSu-H	*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*138 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*350 %*	PFSu-H	*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*66.4 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*43.5 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*162 %*	PFSu-H	*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*46.7 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*58.3 %*		*25-150*

Sample Information

Client Sample ID: TMW10_022825 **York Sample ID:** 25B1634-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 10:21 am	02/28/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW10_022825 **York Sample ID:** 25B1634-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 10:21 am	02/28/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B	03/04/2025 19:05	03/04/2025 22:57	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*30.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*50.4 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 15:52	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 15:52	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 15:52	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 15:52	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 15:52	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 15:52	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 15:52	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	03/04/2025 19:05	03/05/2025 15:52	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*58.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*34.0 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	03/04/2025 08:00	03/04/2025 15:37	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	03/04/2025 08:00	03/04/2025 15:37	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	03/04/2025 08:00	03/04/2025 15:37	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: TMW10_022825 **York Sample ID:** 25B1634-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 10:21 am	02/28/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*82.8 %*			*30-150*					

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.144**		mg/L	0.0556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.349**		mg/L	0.0278	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**247**	M-BS	mg/L	0.0556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**47.5**		mg/L	0.278	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**58.8**		mg/L	0.0556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**5.76**		mg/L	0.00556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**33.0**	M-BS	mg/L	0.0556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**1390**		mg/L	0.556	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	03/05/2025 08:49	03/06/2025 13:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICP Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **TMW10_022825** **York Sample ID:** **25B1634-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 10:21 am	02/28/2025

Metals, Target Analyte, ICP Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.353**		mg/L	0.0278	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**240**	M-BS	mg/L	0.0556	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**51.2**		mg/L	0.278	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**58.5**		mg/L	0.0556	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**5.84**		mg/L	0.00556	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**31.7**		mg/L	0.0556	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**1380**		mg/L	0.556	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	03/05/2025 09:00	03/05/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-CCV 1	ug/L	1.11	1	EPA 6020B	03/05/2025 08:22	03/05/2025 16:20	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.33**		ug/L	1.11	1	EPA 6020B	03/05/2025 08:22	03/05/2025 16:20	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	03/05/2025 08:22	03/05/2025 16:20	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW10_022825 **York Sample ID:** 25B1634-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 10:21 am	02/28/2025

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND	M-CCV 1	ug/L	0.556	1	EPA 6020B	03/05/2025 08:22	03/05/2025 16:20	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**2.58**		ug/L	1.11	1	EPA 6020B	03/05/2025 08:22	03/05/2025 16:20	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/05/2025 08:22	03/05/2025 16:20	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	03/05/2025 08:34	03/06/2025 13:02	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**1.23**		ug/L	1.11	1	EPA 6020B	03/05/2025 08:34	03/06/2025 13:02	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	03/05/2025 08:34	03/06/2025 13:02	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	03/05/2025 08:34	03/06/2025 13:02	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**1.34**		ug/L	1.11	1	EPA 6020B	03/05/2025 08:34	03/06/2025 13:02	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/05/2025 08:34	03/06/2025 13:02	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/05/2025 08:09	03/05/2025 08:09	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/05/2025 08:03	03/05/2025 08:03	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **TMW10_022825** **York Sample ID:** **25B1634-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Ground Water	February 28, 2025 10:21 am	02/28/2025

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	02/28/2025 20:05	02/28/2025 20:53	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	03/06/2025 14:20	03/06/2025 14:20	AD
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.0120**		mg/L	0.0100	1	SM 4500 CN C-2016 / E-2016	03/05/2025 17:13	03/05/2025 21:00	SML
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: GWTB01_022825 **York Sample ID:** 25B1634-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 3:00 pm	02/28/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: GWTB01_022825 **York Sample ID:** 25B1634-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 3:00 pm	02/28/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND		ug/L	1.34	2.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: GWTB01_022825 **York Sample ID:** 25B1634-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 3:00 pm	02/28/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **GWTB01_022825** **York Sample ID:** **25B1634-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25B1634	170773001	Water	February 28, 2025 3:00 pm	02/28/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/05/2025 09:39	03/05/2025 12:39	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.0 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*93.4 %*	*79-122*

Analytical Batch Summary

Batch ID: BB52025 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-01	TMW07_022825	02/28/25
25B1634-02	TMW10_022825	02/28/25
BB52025-BLK1	Blank	02/28/25
BB52025-BS1	LCS	02/28/25

Batch ID: BC50076 **Preparation Method:** EPA 8151A **Prepared By:** YL

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-01	TMW07_022825	03/04/25
25B1634-02	TMW10_022825	03/04/25
BC50076-BLK1	Blank	03/04/25
BC50076-BS1	LCS	03/04/25
BC50076-BSD1	LCS Dup	03/04/25

Batch ID: BC50159 **Preparation Method:** EPA 3510C **Prepared By:** SAC2

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-01	TMW07_022825	03/04/25
25B1634-02	TMW10_022825	03/04/25
BC50159-BLK1	Blank	03/04/25
BC50159-BS1	LCS	03/04/25
BC50159-BSD1	LCS Dup	03/04/25

Batch ID: BC50160 **Preparation Method:** EPA 3510C **Prepared By:** SAC2

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-01	TMW07_022825	03/04/25
25B1634-02	TMW10_022825	03/04/25
BC50160-BLK2	Blank	03/04/25
BC50160-BS2	LCS	03/04/25

Batch ID: BC50173 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** NMB2

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-01	TMW07_022825	03/04/25
25B1634-02	TMW10_022825	03/04/25
BC50173-BLK1	Blank	03/04/25
BC50173-BS2	LCS	03/04/25
BC50173-BSD2	LCS Dup	03/04/25

Batch ID: BC50175 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** NMB2

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-01	TMW07_022825	03/04/25
25B1634-02	TMW10_022825	03/04/25
BC50175-BLK1	Blank	03/04/25
BC50175-BS1	LCS	03/04/25
BC50175-BSD1	LCS Dup	03/04/25

Batch ID: BC50176 **Preparation Method:** EPA 3535A **Prepared By:** NMB2

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-01	TMW07_022825	03/04/25
25B1634-02	TMW10_022825	03/04/25
BC50176-BLK1	Blank	03/04/25
BC50176-BS1	LCS	03/04/25
BC50176-MS1	Matrix Spike	03/04/25
BC50176-MSD1	Matrix Spike Dup	03/04/25

Batch ID: BC50258 **Preparation Method:** EPA SW846-7470A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-01	TMW07_022825	03/05/25
25B1634-02	TMW10_022825	03/05/25
BC50258-BLK1	Blank	03/05/25
BC50258-BS1	LCS	03/05/25

Batch ID: BC50260 **Preparation Method:** EPA SW846-7470A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-01	TMW07_022825	03/05/25
25B1634-02	TMW10_022825	03/05/25
BC50260-BLK1	Blank	03/05/25
BC50260-BLK2	Blank	03/05/25
BC50260-BS1	LCS	03/05/25
BC50260-BS2	LCS	03/05/25

Batch ID: BC50264 **Preparation Method:** EPA 3015A **Prepared By:** DHD

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-01	TMW07_022825	03/05/25
25B1634-02	TMW10_022825	03/05/25
BC50264-BLK1	Blank	03/05/25
BC50264-BS1	LCS	03/05/25
BC50264-DUP1	Duplicate	03/05/25
BC50264-MS1	Matrix Spike	03/05/25

Batch ID: BC50272 **Preparation Method:** EPA 5030B **Prepared By:** SCB

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-01	TMW07_022825	03/05/25
25B1634-02	TMW10_022825	03/05/25
25B1634-03	GWTB01_022825	03/05/25
BC50272-BLK1	Blank	03/05/25
BC50272-BS1	LCS	03/05/25
BC50272-BSD1	LCS Dup	03/05/25

Batch ID: BC50275 **Preparation Method:** EPA 3015A **Prepared By:** DHD

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-01	TMW07_022825	03/05/25
25B1634-02	TMW10_022825	03/05/25
BC50275-BLK1	Blank	03/05/25
BC50275-BS1	LCS	03/05/25
BC50275-DUP1	Duplicate	03/05/25
BC50275-MS1	Matrix Spike	03/05/25

Batch ID: BC50283 **Preparation Method:** EPA 3015A **Prepared By:** DHD

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-01	TMW07_022825	03/05/25
25B1634-02	TMW10_022825	03/05/25
BC50283-BLK1	Blank	03/05/25
BC50283-BS1	LCS	03/05/25

Batch ID: BC50285 **Preparation Method:** EPA 3015A **Prepared By:** DHD

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-01	TMW07_022825	03/05/25
25B1634-02	TMW10_022825	03/05/25
BC50285-BLK1	Blank	03/05/25
BC50285-BS1	LCS	03/05/25
BC50285-DUP1	Duplicate	03/05/25
BC50285-MS1	Matrix Spike	03/05/25
BC50285-PS1	Post Spike	03/05/25

Batch ID: BC50347 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-01	TMW07_022825	03/05/25
25B1634-02	TMW10_022825	03/05/25
BC50347-BLK1	Blank	03/05/25
BC50347-BS1	LCS	03/05/25

Batch ID: BC50414 **Preparation Method:** EPA 1633 Prep **Prepared By:** JLH

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-01	TMW07_022825	03/06/25
25B1634-02	TMW10_022825	03/06/25
BC50414-BLK1	Blank	03/06/25
BC50414-BS1	LCS	03/06/25
BC50414-BS2	LCS	03/06/25

Batch ID: BC50439 **Preparation Method:** Analysis Preparation **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
25B1634-01	TMW07_022825	03/06/25
25B1634-02	TMW10_022825	03/06/25

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
Blank (BC50272-BLK1) Blank									Prepared & Analyzed: 03/05/2025		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
Blank (BC50272-BLK1) Blank							Prepared & Analyzed: 03/05/2025				
n-Butylbenzene	ND	0.500	ug/L								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.40*		*"*	*10.0*		*94.0*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.36*		*"*	*10.0*		*93.6*	*79-122*				
LCS (BC50272-BS1) LCS							Prepared & Analyzed: 03/05/2025				
1,1,1,2-Tetrachloroethane	9.58		ug/L	10.0		95.8	82-126				
1,1,1-Trichloroethane	9.50		"	10.0		95.0	78-136				
1,1,2,2-Tetrachloroethane	9.19		"	10.0		91.9	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8		"	10.0		108	54-165				
1,1,2-Trichloroethane	9.09		"	10.0		90.9	82-123				
1,1-Dichloroethane	9.29		"	10.0		92.9	82-129				
1,1-Dichloroethylene	9.89		"	10.0		98.9	68-138				
1,2,3-Trichlorobenzene	10.8		"	10.0		108	76-136				
1,2,3-Trichloropropane	8.77		"	10.0		87.7	77-128				
1,2,4-Trichlorobenzene	10.6		"	10.0		106	76-137				
1,2,4-Trimethylbenzene	9.62		"	10.0		96.2	82-132				
1,2-Dibromo-3-chloropropane	8.29		"	10.0		82.9	45-147				
1,2-Dibromoethane	9.24		"	10.0		92.4	83-124				
1,2-Dichlorobenzene	9.07		"	10.0		90.7	79-123				
1,2-Dichloroethane	9.54		"	10.0		95.4	73-132				
1,2-Dichloropropane	9.07		"	10.0		90.7	78-126				
1,3,5-Trimethylbenzene	9.27		"	10.0		92.7	80-131				
1,3-Dichlorobenzene	9.17		"	10.0		91.7	86-122				
1,4-Dichlorobenzene	9.14		"	10.0		91.4	85-124				
1,4-Dioxane	154		"	210		73.2	10-349				
2-Butanone	9.31		"	10.0		93.1	49-152				
2-Hexanone	9.14		"	10.0		91.4	51-146				
4-Methyl-2-pentanone	9.59		"	10.0		95.9	57-145				
Acetone	7.05		"	10.0		70.5	14-150				
Acrolein	14.0		"	10.0		140	10-153				
Acrylonitrile	10.7		"	10.0		107	51-150				
Benzene	10.0		"	10.0		100	85-126				
Bromochloromethane	9.62		"	10.0		96.2	77-128				
Bromodichloromethane	9.26		"	10.0		92.6	79-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
LCS (BC50272-BS1) LCS							Prepared & Analyzed: 03/05/2025				
Bromoform	10.2		ug/L	10.0		102	78-133				
Bromomethane	9.85		"	10.0		98.5	43-168				
Carbon disulfide	10.8		"	10.0		108	68-146				
Carbon tetrachloride	9.98		"	10.0		99.8	77-141				
Chlorobenzene	9.23		"	10.0		92.3	88-120				
Chloroethane	10.2		"	10.0		102	65-136				
Chloroform	9.55		"	10.0		95.5	82-128				
Chloromethane	9.93		"	10.0		99.3	43-155				
cis-1,2-Dichloroethylene	10.2		"	10.0		102	83-129				
cis-1,3-Dichloropropylene	9.26		"	10.0		92.6	80-131				
Cyclohexane	10.3		"	10.0		103	63-149				
Dibromochloromethane	9.52		"	10.0		95.2	80-130				
Dibromomethane	8.87		"	10.0		88.7	72-134				
Dichlorodifluoromethane	11.5		"	10.0		115	44-144				
Ethyl Benzene	9.37		"	10.0		93.7	80-131				
Hexachlorobutadiene	10.5		"	10.0		105	67-146				
Isopropylbenzene	8.88		"	10.0		88.8	76-140				
Methyl acetate	13.1		"	10.0		131	51-139				
Methyl tert-butyl ether (MTBE)	9.67		"	10.0		96.7	76-135				
Methylcyclohexane	9.45		"	10.0		94.5	72-143				
Methylene chloride	9.10		"	10.0		91.0	55-137				
n-Butylbenzene	9.79		"	10.0		97.9	79-132				
n-Propylbenzene	8.96		"	10.0		89.6	78-133				
o-Xylene	9.33		"	10.0		93.3	78-130				
p- & m- Xylenes	18.5		"	20.0		92.4	77-133				
p-Isopropyltoluene	9.72		"	10.0		97.2	81-136				
sec-Butylbenzene	9.17		"	10.0		91.7	79-137				
Styrene	9.82		"	10.0		98.2	67-132				
tert-Butyl alcohol (TBA)	59.2		"	50.0		118	25-162				
tert-Butylbenzene	9.10		"	10.0		91.0	77-138				
Tetrachloroethylene	6.02		"	10.0		60.2	82-131	Low Bias			
Toluene	9.14		"	10.0		91.4	80-127				
trans-1,2-Dichloroethylene	9.62		"	10.0		96.2	80-132				
trans-1,3-Dichloropropylene	9.55		"	10.0		95.5	78-131				
Trichloroethylene	8.91		"	10.0		89.1	82-128				
Trichlorofluoromethane	10.2		"	10.0		102	67-139				
Vinyl Chloride	10.2		"	10.0		102	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.59*		*"*	*10.0*		*95.9*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.56*		*"*	*10.0*		*95.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.58*		*"*	*10.0*		*95.8*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
LCS Dup (BC50272-BSD1) LCS Dup							Prepared & Analyzed: 03/05/2025				
1,1,1,2-Tetrachloroethane	10.0		ug/L	10.0		100	82-126		4.29	30	
1,1,1-Trichloroethane	9.69		"	10.0		96.9	78-136		1.98	30	
1,1,2,2-Tetrachloroethane	10.1		"	10.0		101	76-129		9.04	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0		"	10.0		110	54-165		1.93	30	
1,1,2-Trichloroethane	10.0		"	10.0		100	82-123		9.83	30	
1,1-Dichloroethane	9.51		"	10.0		95.1	82-129		2.34	30	
1,1-Dichloroethylene	10.1		"	10.0		101	68-138		2.00	30	
1,2,3-Trichlorobenzene	13.4		"	10.0		134	76-136		21.4	30	
1,2,3-Trichloropropane	9.68		"	10.0		96.8	77-128		9.86	30	
1,2,4-Trichlorobenzene	11.6		"	10.0		116	76-137		9.57	30	
1,2,4-Trimethylbenzene	9.25		"	10.0		92.5	82-132		3.92	30	
1,2-Dibromo-3-chloropropane	9.57		"	10.0		95.7	45-147		14.3	30	
1,2-Dibromoethane	10.3		"	10.0		103	83-124		11.0	30	
1,2-Dichlorobenzene	9.39		"	10.0		93.9	79-123		3.47	30	
1,2-Dichloroethane	10.2		"	10.0		102	73-132		6.98	30	
1,2-Dichloropropane	9.31		"	10.0		93.1	78-126		2.61	30	
1,3,5-Trimethylbenzene	8.92		"	10.0		89.2	80-131		3.85	30	
1,3-Dichlorobenzene	9.23		"	10.0		92.3	86-122		0.652	30	
1,4-Dichlorobenzene	9.21		"	10.0		92.1	85-124		0.763	30	
1,4-Dioxane	181		"	210		86.2	10-349		16.3	30	
2-Butanone	10.6		"	10.0		106	49-152		12.5	30	
2-Hexanone	11.1		"	10.0		111	51-146		19.4	30	
4-Methyl-2-pentanone	11.3		"	10.0		113	57-145		16.3	30	
Acetone	8.50		"	10.0		85.0	14-150		18.6	30	
Acrolein	15.8		"	10.0		158	10-153	High Bias	12.0	30	
Acrylonitrile	12.3		"	10.0		123	51-150		14.6	30	
Benzene	10.2		"	10.0		102	85-126		1.49	30	
Bromochloromethane	10.3		"	10.0		103	77-128		6.83	30	
Bromodichloromethane	9.63		"	10.0		96.3	79-128		3.92	30	
Bromoform	11.7		"	10.0		117	78-133		13.3	30	
Bromomethane	9.41		"	10.0		94.1	43-168		4.57	30	
Carbon disulfide	10.9		"	10.0		109	68-146		0.643	30	
Carbon tetrachloride	10.2		"	10.0		102	77-141		1.89	30	
Chlorobenzene	9.39		"	10.0		93.9	88-120		1.72	30	
Chloroethane	10.2		"	10.0		102	65-136		0.197	30	
Chloroform	9.87		"	10.0		98.7	82-128		3.30	30	
Chloromethane	9.89		"	10.0		98.9	43-155		0.404	30	
cis-1,2-Dichloroethylene	10.0		"	10.0		100	83-129		1.68	30	
cis-1,3-Dichloropropylene	9.61		"	10.0		96.1	80-131		3.71	30	
Cyclohexane	10.6		"	10.0		106	63-149		2.50	30	
Dibromochloromethane	10.5		"	10.0		105	80-130		9.41	30	
Dibromomethane	9.60		"	10.0		96.0	72-134		7.90	30	
Dichlorodifluoromethane	11.8		"	10.0		118	44-144		2.06	30	
Ethyl Benzene	9.40		"	10.0		94.0	80-131		0.320	30	
Hexachlorobutadiene	10.4		"	10.0		104	67-146		0.383	30	
Isopropylbenzene	8.53		"	10.0		85.3	76-140		4.02	30	
Methyl acetate	15.0		"	10.0		150	51-139	High Bias	13.6	30	
Methyl tert-butyl ether (MTBE)	11.0		"	10.0		110	76-135		13.2	30	
Methylcyclohexane	9.45		"	10.0		94.5	72-143		0.00	30	
Methylene chloride	9.48		"	10.0		94.8	55-137		4.09	30	
n-Butylbenzene	9.55		"	10.0		95.5	79-132		2.48	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
LCS Dup (BC50272-BSD1) LCS Dup							Prepared & Analyzed: 03/05/2025				
n-Propylbenzene	8.69		ug/L	10.0		86.9	78-133		3.06	30	
o-Xylene	9.42		"	10.0		94.2	78-130		0.960	30	
p- & m- Xylenes	18.6		"	20.0		93.0	77-133		0.647	30	
p-Isopropyltoluene	9.37		"	10.0		93.7	81-136		3.67	30	
sec-Butylbenzene	8.82		"	10.0		88.2	79-137		3.89	30	
Styrene	10.2		"	10.0		102	67-132		3.30	30	
tert-Butyl alcohol (TBA)	73.8		"	50.0		148	25-162		22.1	30	
tert-Butylbenzene	8.79		"	10.0		87.9	77-138		3.47	30	
Tetrachloroethylene	5.99		"	10.0		59.9	82-131	Low Bias	0.500	30	
Toluene	9.11		"	10.0		91.1	80-127		0.329	30	
trans-1,2-Dichloroethylene	9.72		"	10.0		97.2	80-132		1.03	30	
trans-1,3-Dichloropropylene	10.3		"	10.0		103	78-131		7.85	30	
Trichloroethylene	8.89		"	10.0		88.9	82-128		0.225	30	
Trichlorofluoromethane	10.3		"	10.0		103	67-139		1.76	30	
Vinyl Chloride	10.4		"	10.0		104	58-145		1.55	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.38*		*"*	*10.0*		*93.8*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.39*		*"*	*10.0*		*93.9*	*79-122*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50159 - EPA 3510C											
Blank (BC50159-BLK1) Blank									Prepared & Analyzed: 03/04/2025		
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Diphenylamine	ND	5.00	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Isophorone	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Phenol	ND	5.00	"								
Pyridine	ND	5.00	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50159 - EPA 3510C											
Blank (BC50159-BLK1) Blank								Prepared & Analyzed: 03/04/2025			
Surrogate: SURR: 2-Fluorophenol	*17.3*		*ug/L*	*50.0*		*34.5*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*8.91*		*"*	*50.0*		*17.8*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*15.5*		*"*	*25.0*		*62.2*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*15.6*		*"*	*25.0*		*62.3*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*37.5*		*"*	*50.0*		*74.9*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*20.9*		*"*	*25.0*		*83.6*	*30.7-106*				
LCS (BC50159-BS1) LCS								Prepared & Analyzed: 03/04/2025			
1,1-Biphenyl	6.47	5.00	ug/L	25.0		25.9	33-95	Low Bias			
1,2,4,5-Tetrachlorobenzene	5.59	5.00	"	25.0		22.4	26-120	Low Bias			
1,2-Diphenylhydrazine (as Azobenzene)	6.42	5.00	"	25.0		25.7	16-141				
2,3,4,6-Tetrachlorophenol	8.30	5.00	"	25.0		33.2	30-130				
2,4,5-Trichlorophenol	7.44	5.00	"	25.0		29.8	32-114	Low Bias			
2,4,6-Trichlorophenol	7.07	5.00	"	25.0		28.3	35-118	Low Bias			
2,4-Dichlorophenol	6.70	5.00	"	25.0		26.8	25-116				
2,4-Dimethylphenol	7.08	5.00	"	25.0		28.3	15-116				
2,4-Dinitrophenol	3.26	5.00	"	25.0		13.0	10-170				
2,4-Dinitrotoluene	7.51	5.00	"	25.0		30.0	41-128	Low Bias			
2,6-Dinitrotoluene	7.21	5.00	"	25.0		28.8	45-116	Low Bias			
2-Chloronaphthalene	5.96	5.00	"	25.0		23.8	33-112	Low Bias			
2-Chlorophenol	5.43	5.00	"	25.0		21.7	15-120				
2-Methylnaphthalene	5.44	5.00	"	25.0		21.8	24-118	Low Bias			
2-Methylphenol	5.01	5.00	"	25.0		20.0	10-110				
2-Nitroaniline	7.04	5.00	"	25.0		28.2	34-129	Low Bias			
2-Nitrophenol	6.69	5.00	"	25.0		26.8	28-118	Low Bias			
3- & 4-Methylphenols	4.00	5.00	"	25.0		16.0	10-107				
3,3-Dichlorobenzidine	5.13	5.00	"	25.0		20.5	15-187				
3-Nitroaniline	5.83	5.00	"	25.0		23.3	24-134	Low Bias			
4,6-Dinitro-2-methylphenol	4.61	5.00	"	25.0		18.4	10-153				
4-Bromophenyl phenyl ether	7.21	5.00	"	25.0		28.8	34-120	Low Bias			
4-Chloro-3-methylphenol	7.41	5.00	"	25.0		29.6	20-120				
4-Chloroaniline	4.17	5.00	"	25.0		16.7	10-147				
4-Chlorophenyl phenyl ether	7.18	5.00	"	25.0		28.7	27-121				
4-Nitroaniline	6.71	5.00	"	25.0		26.8	13-134				
4-Nitrophenol	ND	5.00	"	25.0			10-131	Low Bias			
Acetophenone	5.81	5.00	"	25.0		23.2	25-110	Low Bias			
Aniline	ND	5.00	"	25.0			10-117	Low Bias			
Benzaldehyde	6.00	5.00	"	25.0		24.0	29-117	Low Bias			
Benzoic acid	ND	5.00	"	25.0			30-130	Low Bias			
Benzyl alcohol	3.95	5.00	"	25.0		15.8	10-117				
Benzyl butyl phthalate	6.52	5.00	"	25.0		26.1	29-133	Low Bias			
Bis(2-chloroethoxy)methane	6.37	5.00	"	25.0		25.5	10-154				
Bis(2-chloroethyl)ether	5.73	5.00	"	25.0		22.9	17-125				
Bis(2-chloroisopropyl)ether	5.02	5.00	"	25.0		20.1	10-139				
Caprolactam	ND	5.00	"	25.0			10-137	Low Bias			
Carbazole	7.15	5.00	"	25.0		28.6	42-126	Low Bias			
Dibenzofuran	6.93	5.00	"	25.0		27.7	36-113	Low Bias			
Diethyl phthalate	7.69	5.00	"	25.0		30.8	38-115	Low Bias			
Dimethyl phthalate	7.30	5.00	"	25.0		29.2	38-129	Low Bias			
Di-n-butyl phthalate	7.32	5.00	"	25.0		29.3	31-120	Low Bias			
Di-n-octyl phthalate	6.57	5.00	"	25.0		26.3	21-149				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50159 - EPA 3510C											
LCS (BC50159-BS1) LCS							Prepared & Analyzed: 03/04/2025				
Diphenylamine	6.67	5.00	ug/L	25.0		26.7	40-140	Low Bias			
Hexachlorocyclopentadiene	ND	10.0	"	25.0			10-130	Low Bias			
Isophorone	6.89	5.00	"	25.0		27.6	25-127				
N-nitroso-di-n-propylamine	5.96	5.00	"	25.0		23.8	26-122	Low Bias			
N-Nitrosodiphenylamine	7.11	5.00	"	25.0		28.4	23-149				
Phenol	2.32	5.00	"	25.0		9.28	10-110	Low Bias			
Pyridine	ND	5.00	"	35.0			10-90	Low Bias			
Surrogate: SURR: 2-Fluorophenol	*6.99*		*"*	*50.0*		*14.0*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*3.95*		*"*	*50.0*		*7.90*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*6.49*		*"*	*25.0*		*26.0*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*6.42*		*"*	*25.0*		*25.7*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*14.6*		*"*	*50.0*		*29.1*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*7.71*		*"*	*25.0*		*30.8*	*30.7-106*				
LCS Dup (BC50159-BSD1) LCS Dup							Prepared & Analyzed: 03/04/2025				
1,1-Biphenyl	12.3	5.00	ug/L	25.0		49.2	33-95		62.2	20	Non-dir.
1,2,4,5-Tetrachlorobenzene	10.8	5.00	"	25.0		43.2	26-120		63.6	20	Non-dir.
1,2-Diphenylhydrazine (as Azobenzene)	12.1	5.00	"	25.0		48.3	16-141		61.1	20	Non-dir.
2,3,4,6-Tetrachlorophenol	12.2	5.00	"	25.0		48.8	30-130		38.0	20	Non-dir.
2,4,5-Trichlorophenol	14.4	5.00	"	25.0		57.8	32-114		64.0	20	Non-dir.
2,4,6-Trichlorophenol	13.6	5.00	"	25.0		54.4	35-118		63.2	20	Non-dir.
2,4-Dichlorophenol	13.4	5.00	"	25.0		53.4	25-116		66.3	20	Non-dir.
2,4-Dimethylphenol	14.0	5.00	"	25.0		56.2	15-116		66.0	20	Non-dir.
2,4-Dinitrophenol	6.52	5.00	"	25.0		26.1	10-170		66.7	20	Non-dir.
2,4-Dinitrotoluene	14.1	5.00	"	25.0		56.2	41-128		60.7	20	Non-dir.
2,6-Dinitrotoluene	13.6	5.00	"	25.0		54.3	45-116		61.3	20	Non-dir.
2-Chloronaphthalene	11.5	5.00	"	25.0		46.1	33-112		63.6	20	Non-dir.
2-Chlorophenol	11.4	5.00	"	25.0		45.6	15-120		70.9	20	Non-dir.
2-Methylnaphthalene	10.4	5.00	"	25.0		41.8	24-118		63.0	20	Non-dir.
2-Methylphenol	10.6	5.00	"	25.0		42.4	10-110		71.5	20	Non-dir.
2-Nitroaniline	13.5	5.00	"	25.0		53.9	34-129		62.8	20	Non-dir.
2-Nitrophenol	13.0	5.00	"	25.0		51.8	28-118		63.8	20	Non-dir.
3- & 4-Methylphenols	8.06	5.00	"	25.0		32.2	10-107		67.3	20	Non-dir.
3,3-Dichlorobenzidine	8.80	5.00	"	25.0		35.2	15-187		52.7	20	Non-dir.
3-Nitroaniline	12.5	5.00	"	25.0		50.0	24-134		72.8	20	Non-dir.
4,6-Dinitro-2-methylphenol	8.97	5.00	"	25.0		35.9	10-153		64.2	20	Non-dir.
4-Bromophenyl phenyl ether	13.2	5.00	"	25.0		52.8	34-120		58.6	20	Non-dir.
4-Chloro-3-methylphenol	14.2	5.00	"	25.0		56.8	20-120		62.9	20	Non-dir.
4-Chloroaniline	9.63	5.00	"	25.0		38.5	10-147		79.1	20	Non-dir.
4-Chlorophenyl phenyl ether	13.4	5.00	"	25.0		53.7	27-121		60.7	20	Non-dir.
4-Nitroaniline	12.6	5.00	"	25.0		50.3	13-134		60.8	20	Non-dir.
4-Nitrophenol	5.79	5.00	"	25.0		23.2	10-131		71.5	20	Non-dir.
Acetophenone	10.9	5.00	"	25.0		43.6	25-110		61.0	20	Non-dir.
Aniline	3.93	5.00	"	25.0		15.7	10-117		61.1	20	Non-dir.
Benzaldehyde	11.7	5.00	"	25.0		46.8	29-117		64.3	20	Non-dir.
Benzoic acid	2.84	5.00	"	25.0		11.4	30-130	Low Bias	113	20	Non-dir.
Benzyl alcohol	8.41	5.00	"	25.0		33.6	10-117		72.2	20	Non-dir.
Benzyl butyl phthalate	12.5	5.00	"	25.0		50.0	29-133		62.9	20	Non-dir.
Bis(2-chloroethoxy)methane	12.4	5.00	"	25.0		49.5	10-154		64.1	20	Non-dir.
Bis(2-chloroethyl)ether	11.6	5.00	"	25.0		46.6	17-125		68.1	20	Non-dir.
Bis(2-chloroisopropyl)ether	9.68	5.00	"	25.0		38.7	10-139		63.4	20	Non-dir.

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50159 - EPA 3510C											
LCS Dup (BC50159-BSD1) LCS Dup							Prepared & Analyzed: 03/04/2025				
Caprolactam	2.56	5.00	ug/L	25.0		10.2	10-137		66.7	20	Non-dir.
Carbazole	13.2	5.00	"	25.0		52.7	42-126		59.3	20	Non-dir.
Dibenzofuran	12.8	5.00	"	25.0		51.3	36-113		59.6	20	Non-dir.
Diethyl phthalate	15.0	5.00	"	25.0		59.9	38-115		64.3	20	Non-dir.
Dimethyl phthalate	14.3	5.00	"	25.0		57.2	38-129		64.9	20	Non-dir.
Di-n-butyl phthalate	13.8	5.00	"	25.0		55.0	31-120		61.0	20	Non-dir.
Di-n-octyl phthalate	12.5	5.00	"	25.0		49.9	21-149		62.0	20	Non-dir.
Diphenylamine	12.4	5.00	"	25.0		49.7	40-140		60.3	20	Non-dir.
Hexachlorocyclopentadiene	ND	10.0	"	25.0			10-130	Low Bias		20	
Isophorone	13.8	5.00	"	25.0		55.1	25-127		66.6	20	Non-dir.
N-nitroso-di-n-propylamine	11.2	5.00	"	25.0		45.0	26-122		61.5	20	Non-dir.
N-Nitrosodiphenylamine	12.5	5.00	"	25.0		50.0	23-149		55.0	20	Non-dir.
Phenol	4.96	5.00	"	25.0		19.8	10-110		72.5	20	Non-dir.
Pyridine	ND	5.00	"	35.0			10-90	Low Bias		20	
Surrogate: SURR: 2-Fluorophenol	*14.3*		*"*	*50.0*		*28.5*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*8.33*		*"*	*50.0*		*16.7*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*12.2*		*"*	*25.0*		*49.0*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*11.8*		*"*	*25.0*		*47.3*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*26.0*		*"*	*50.0*		*52.0*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*14.4*		*"*	*25.0*		*57.6*	*30.7-106*				
Batch BC50160 - EPA 3510C											
Blank (BC50160-BLK2) Blank							Prepared & Analyzed: 03/04/2025				
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50160 - EPA 3510C											
LCS (BC50160-BS2) LCS							Prepared & Analyzed: 03/04/2025				
Acenaphthene	0.690	0.0500	ug/L	0.625		110	25-116				
Acenaphthylene	0.840	0.0500	"	0.625		134	26-116	High Bias			
Anthracene	0.850	0.0500	"	0.625		136	25-123	High Bias			
Benzo(a)anthracene	0.880	0.0500	"	0.625		141	33-125	High Bias			
Benzo(a)pyrene	0.800	0.0500	"	0.625		128	32-132				
Benzo(b)fluoranthene	0.740	0.0500	"	0.625		118	22-137				
Benzo(g,h,i)perylene	1.24	0.0500	"	0.625		198	10-138	High Bias			
Benzo(k)fluoranthene	0.790	0.0500	"	0.625		126	20-137				
Bis(2-ethylhexyl)phthalate	1.08	0.500	"	0.625		173	10-189				
Chrysene	0.850	0.0500	"	0.625		136	32-124	High Bias			
Dibenzo(a,h)anthracene	1.19	0.0500	"	0.625		190	16-133	High Bias			
Fluoranthene	0.870	0.0500	"	0.625		139	32-121	High Bias			
Fluorene	0.790	0.0500	"	0.625		126	28-118	High Bias			
Hexachlorobenzene	0.840	0.0200	"	0.625		134	23-124	High Bias			
Hexachlorobutadiene	0.600	0.500	"	0.625		96.0	15-123				
Hexachloroethane	2.93	0.500	"	0.625		469	18-115	High Bias			
Indeno(1,2,3-cd)pyrene	1.15	0.0500	"	0.625		184	15-135	High Bias			
Naphthalene	0.660	0.0500	"	0.625		106	18-120				
Nitrobenzene	0.370	0.250	"	0.625		59.2	21-121				
N-Nitrosodimethylamine	ND	0.500	"	0.625			10-124	Low Bias			
Pentachlorophenol	0.360	0.250	"	0.625		57.6	10-156				
Phenanthrene	0.780	0.0500	"	0.625		125	24-127				
Pyrene	1.15	0.0500	"	0.625		184	31-132	High Bias			

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50176 - EPA 3535A											
Blank (BC50176-BLK1) Blank								Prepared: 03/04/2025 Analyzed: 03/05/2025			
1,4-Dioxane	ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8	*4.16*		*"*	*4.00*		*104*	*36.6-118*				
LCS (BC50176-BS1) LCS								Prepared: 03/04/2025 Analyzed: 03/05/2025			
1,4-Dioxane	4.02	0.300	ug/L	4.00		100	50-130				
Surrogate: 1,4-Dioxane-d8	*3.84*		*"*	*4.00*		*96.0*	*36.6-118*				
Matrix Spike (BC50176-MS1) Matrix Spike *Source sample: 25B1634-01 (TMW07_022825)								Prepared: 03/04/2025 Analyzed: 03/05/2025			
1,4-Dioxane	3.78	0.300	ug/L	4.00	ND	94.4	50-130				
Surrogate: 1,4-Dioxane-d8	*4.96*		*"*	*4.00*		*124*	*50-130*				
Matrix Spike Dup (BC50176-! Matrix Spike Dup *Source sample: 25B1634-01 (TMW07_022825)								Prepared: 03/04/2025 Analyzed: 03/05/2025			
1,4-Dioxane	3.81	0.300	ug/L	4.00	ND	95.2	50-130		0.844	30	
Surrogate: 1,4-Dioxane-d8	*4.16*		*"*	*4.00*		*104*	*50-130*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50414 - EPA 1633 Prep											
Blank (BC50414-BLK1) Blank									Prepared: 03/06/2025 Analyzed: 03/07/2025		
Perfluorobutanesulfonic acid (PFBS)	ND	1.77	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.83	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	1.86	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	4.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.91	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.93	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	7.60	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	7.68	"								
Perfluoro-n-butanoic acid (PFBA)	ND	8.00	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.56	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	4.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	4.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	4.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.88	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	ND	7.50	"								
HFPO-DA (Gen-X)	ND	8.00	"								
11CL-PF3OUdS	ND	7.56	"								
9CL-PF3ONS	ND	7.48	"								
ADONA	ND	7.56	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	1.94	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.92	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	5.00	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	25.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	25.0	"								
N-MeFOSE	ND	20.0	"								
N-MeFOSA	ND	2.00	"								
N-EtFOSE	ND	20.0	"								
N-EtFOSA	ND	2.00	"								
Surrogate: M3PFBS	*32.4*		*"*	*23.3*		*139*	*25-150*				
Surrogate: M5PFHxA	*30.7*		*"*	*25.0*		*123*	*25-150*				
Surrogate: M4PFHpA	*34.1*		*"*	*25.0*		*136*	*25-150*				
Surrogate: M3PFHxS	*31.2*		*"*	*23.7*		*132*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*30.9*		*"*	*25.0*		*124*	*25-150*				
Surrogate: M6PFDA	*15.4*		*"*	*12.5*		*123*	*25-150*				
Surrogate: M7PFUdA	*16.7*		*"*	*12.5*		*133*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*15.1*		*"*	*12.5*		*121*	*25-150*				
Surrogate: M2PFTeDA	*9.93*		*"*	*12.5*		*79.4*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50414 - EPA 1633 Prep											
Blank (BC50414-BLK1) Blank								Prepared: 03/06/2025 Analyzed: 03/07/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.30*		*ng/L*	*100*		*2.30*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*25.1*		*"*	*24.0*		*105*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*27.2*		*"*	*50.0*		*54.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*27.1*		*"*	*25.0*		*108*	*10-150*				
Surrogate: d3-N-MeFOSAA	*46.8*		*"*	*50.0*		*93.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*47.8*		*"*	*50.0*		*95.6*	*25-150*				
Surrogate: M2-6:2 FTS	*69.4*		*"*	*47.6*		*146*	*25-200*				
Surrogate: M2-8:2 FTS	*61.8*		*"*	*48.0*		*129*	*25-200*				
Surrogate: M9PFNA	*16.5*		*"*	*12.5*		*132*	*25-150*				
Surrogate: M2-4:2 FTS	*75.0*		*"*	*46.9*		*160*	*25-150*				
Surrogate: d-N-MeFOSA	*25.4*		*"*	*25.0*		*101*	*25-150*				
Surrogate: d-N-EtFOSA	*21.8*		*"*	*25.0*		*87.0*	*25-150*				
Surrogate: M3HFPO-DA	*139*		*"*	*100*		*139*	*25-150*				
Surrogate: d9-N-EtFOSE	*135*		*"*	*250*		*54.1*	*25-150*				
Surrogate: d7-N-MeFOSE	*153*		*"*	*250*		*61.2*	*25-150*				
LCS (BC50414-BS1) LCS								Prepared: 03/06/2025 Analyzed: 03/07/2025			
Perfluorobutanesulfonic acid (PFBS)	34.9	1.77	ng/L	35.4		98.6	50-150				
Perfluorohexanoic acid (PFHxA)	40.4	2.00	"	40.0		101	50-150				
Perfluoroheptanoic acid (PFHpA)	38.5	2.00	"	40.0		96.2	50-150				
Perfluorohexanesulfonic acid (PFHxS)	37.7	1.83	"	36.6		103	50-150				
Perfluorooctanoic acid (PFOA)	41.0	2.00	"	40.0		103	50-150				
Perfluorooctanesulfonic acid (PFOS)	37.5	1.86	"	37.2		101	50-150				
Perfluorononanoic acid (PFNA)	42.0	2.00	"	40.0		105	50-150				
Perfluorodecanoic acid (PFDA)	38.8	2.00	"	40.0		97.1	50-150				
Perfluoroundecanoic acid (PFUnA)	36.1	2.00	"	40.0		90.3	50-150				
Perfluorododecanoic acid (PFDoA)	39.6	2.00	"	40.0		99.1	50-150				
Perfluorotridecanoic acid (PFTrDA)	54.4	2.00	"	40.0		136	50-150				
Perfluorotetradecanoic acid (PFTA)	38.4	2.00	"	40.0		96.0	50-150				
N-MeFOSAA	43.1	2.00	"	40.0		108	50-150				
N-EtFOSAA	46.4	2.00	"	40.0		116	50-150				
Perfluoropentanoic acid (PFPeA)	82.1	4.00	"	80.0		103	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	43.0	2.00	"	40.0		108	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	41.1	1.91	"	38.2		108	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	32.8	1.93	"	38.6		84.9	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	161	7.60	"	152		106	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	137	7.68	"	154		89.2	50-150				
Perfluoro-n-butanoic acid (PFBA)	134	8.00	"	160		84.1	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	83.9	3.56	"	71.2		118	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	80.4	4.00	"	80.0		101	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	13.2	4.00	"	80.0		16.4	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	131	4.00	"	80.0		164	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	37.6	1.88	"	37.6		100	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	165	7.50	"	150		110	50-150				
HFPO-DA (Gen-X)	97.2	8.00	"	80.0		122	50-150				
11CL-PF3OUdS	67.4	7.56	"	75.6		89.2	50-150				
9CL-PF3ONS	80.0	7.48	"	74.8		107	50-150				
ADONA	83.6	7.56	"	75.6		111	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50414 - EPA 1633 Prep											
LCS (BC50414-BS1) LCS								Prepared: 03/06/2025 Analyzed: 03/07/2025			
Perfluorododecanesulfonic acid (PFDoS)	24.0	1.94	ng/L	38.8		61.8	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	37.2	1.92	"	38.4		96.9	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	83.8	5.00	"	160		52.4	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	891	25.0	"	800		111	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	860	25.0	"	800		108	50-150				
N-MeFOSE	445	20.0	"	400		111	50-150				
N-MeFOSA	38.2	2.00	"	40.0		95.5	50-150				
N-EtFOSE	423	20.0	"	400		106	50-150				
N-EtFOSA	37.9	2.00	"	40.0		94.8	50-150				
Surrogate: M3PFBS	*30.1*		*"*	*23.3*		*129*	*25-150*				
Surrogate: M5PFHxA	*30.5*		*"*	*25.0*		*122*	*25-150*				
Surrogate: M4PFHpA	*32.9*		*"*	*25.0*		*132*	*25-150*				
Surrogate: M3PFHxS	*30.6*		*"*	*23.7*		*129*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*31.5*		*"*	*25.0*		*126*	*25-150*				
Surrogate: M6PFDA	*16.5*		*"*	*12.5*		*132*	*25-150*				
Surrogate: M7PFUdA	*16.6*		*"*	*12.5*		*133*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*12.0*		*"*	*12.5*		*96.1*	*25-150*				
Surrogate: M2PFTeDA	*8.45*		*"*	*12.5*		*67.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.31*		*"*	*100*		*2.31*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*31.8*		*"*	*24.0*		*133*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*28.3*		*"*	*50.0*		*56.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*33.3*		*"*	*25.0*		*133*	*10-150*				
Surrogate: d3-N-MeFOSAA	*73.0*		*"*	*50.0*		*146*	*25-150*				
Surrogate: d5-N-EtFOSAA	*69.0*		*"*	*50.0*		*138*	*25-150*				
Surrogate: M2-6:2 FTS	*69.3*		*"*	*47.6*		*146*	*25-200*				
Surrogate: M2-8:2 FTS	*87.8*		*"*	*48.0*		*183*	*25-200*				
Surrogate: M9PFNA	*15.8*		*"*	*12.5*		*126*	*25-150*				
Surrogate: M2-4:2 FTS	*68.3*		*"*	*46.9*		*146*	*25-150*				
Surrogate: d-N-MeFOSA	*29.7*		*"*	*25.0*		*119*	*25-150*				
Surrogate: d-N-EtFOSA	*25.5*		*"*	*25.0*		*102*	*25-150*				
Surrogate: M3HFPO-DA	*121*		*"*	*100*		*121*	*25-150*				
Surrogate: d9-N-EtFOSE	*162*		*"*	*250*		*64.8*	*25-150*				
Surrogate: d7-N-MeFOSE	*182*		*"*	*250*		*72.9*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50414 - EPA 1633 Prep											
LCS (BC50414-BS2) LCS								Prepared: 03/06/2025 Analyzed: 03/07/2025			
Perfluorobutanesulfonic acid (PFBS)	4.11	1.77	ng/L	3.54		116	50-150				
Perfluorohexanoic acid (PFHxA)	3.75	2.00	"	4.00		93.7	50-150				
Perfluoroheptanoic acid (PFHpA)	3.44	2.00	"	4.00		86.0	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.82	1.83	"	3.66		104	50-150				
Perfluorooctanoic acid (PFOA)	3.96	2.00	"	4.00		99.0	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.09	1.86	"	3.72		83.2	50-150				
Perfluorononanoic acid (PFNA)	3.67	2.00	"	4.00		91.7	50-150				
Perfluorodecanoic acid (PFDA)	3.25	2.00	"	4.00		81.2	50-150				
Perfluoroundecanoic acid (PFUnA)	4.18	2.00	"	4.00		104	50-150				
Perfluorododecanoic acid (PFDoA)	3.51	2.00	"	4.00		87.9	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.73	2.00	"	4.00		118	50-150				
Perfluorotetradecanoic acid (PFTA)	3.67	2.00	"	4.00		91.7	50-150				
N-MeFOSAA	3.77	2.00	"	4.00		94.2	50-150				
N-EtFOSAA	3.70	2.00	"	4.00		92.5	50-150				
Perfluoropentanoic acid (PFPeA)	7.66	4.00	"	8.00		95.7	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.04	2.00	"	4.00		101	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.52	1.91	"	3.82		92.1	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.54	1.93	"	3.86		91.6	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	14.3	7.60	"	15.2		94.3	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	14.9	7.68	"	15.4		97.3	50-150				
Perfluoro-n-butanoic acid (PFBA)	12.8	8.00	"	16.0		80.0	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.72	3.56	"	7.12		108	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	8.41	4.00	"	8.00		105	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.05	4.00	"	8.00		13.1	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	13.1	4.00	"	8.00		164	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	3.51	1.88	"	3.76		93.5	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	15.4	7.50	"	15.0		103	50-150				
HFPO-DA (Gen-X)	6.92	8.00	"	8.00		86.4	50-150				
11CL-PF3OUdS	6.44	7.56	"	7.56		85.1	50-150				
9CL-PF3ONS	7.03	7.48	"	7.48		94.0	50-150				
ADONA	7.26	7.56	"	7.56		96.0	50-150				
Perfluorododecanesulfonic acid (PFDoS)	2.26	1.94	"	3.88		58.3	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	3.82	1.92	"	3.84		99.4	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	11.2	5.00	"	16.0		69.8	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	77.4	25.0	"	80.0		96.7	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	82.7	25.0	"	80.0		103	50-150				
N-MeFOSE	44.5	20.0	"	40.0		111	50-150				
N-MeFOSA	5.74	2.00	"	4.00		143	50-150				
N-EtFOSE	43.1	20.0	"	40.0		108	50-150				
N-EtFOSA	3.81	2.00	"	4.00		95.2	50-150				
Surrogate: M3PFBS	*31.3*		*"*	*23.3*		*134*	*25-150*				
Surrogate: M5PFHxA	*31.7*		*"*	*25.0*		*127*	*25-150*				
Surrogate: M4PFHpA	*34.2*		*"*	*25.0*		*137*	*25-150*				
Surrogate: M3PFHxS	*33.8*		*"*	*23.7*		*143*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*33.8*		*"*	*25.0*		*135*	*25-150*				
Surrogate: M6PFDA	*17.3*		*"*	*12.5*		*139*	*25-150*				
Surrogate: M7PFUdA	*17.0*		*"*	*12.5*		*136*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*14.7*		*"*	*12.5*		*118*	*25-150*				
Surrogate: M2PFTeDA	*10.7*		*"*	*12.5*		*85.6*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50414 - EPA 1633 Prep											
LCS (BC50414-BS2) LCS								Prepared: 03/06/2025 Analyzed: 03/07/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.65*		*ng/L*	*100*		*1.65*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*33.8*		*"*	*24.0*		*141*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*24.9*		*"*	*50.0*		*49.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*34.2*		*"*	*25.0*		*137*	*10-150*				
Surrogate: d3-N-MeFOSAA	*70.1*		*"*	*50.0*		*140*	*25-150*				
Surrogate: d5-N-EtFOSAA	*80.1*		*"*	*50.0*		*160*	*25-150*				
Surrogate: M2-6:2 FTS	*75.9*		*"*	*47.6*		*160*	*25-200*				
Surrogate: M2-8:2 FTS	*94.6*		*"*	*48.0*		*197*	*25-200*				
Surrogate: M9PFNA	*16.4*		*"*	*12.5*		*132*	*25-150*				
Surrogate: M2-4:2 FTS	*76.8*		*"*	*46.9*		*164*	*25-150*				
Surrogate: d-N-MeFOSA	*28.0*		*"*	*25.0*		*112*	*25-150*				
Surrogate: d-N-EtFOSA	*26.9*		*"*	*25.0*		*108*	*25-150*				
Surrogate: M3HFPO-DA	*127*		*"*	*100*		*127*	*25-150*				
Surrogate: d9-N-EtFOSE	*186*		*"*	*250*		*74.3*	*25-150*				
Surrogate: d7-N-MeFOSE	*205*		*"*	*250*		*82.0*	*25-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50175 - EPA SW846-3510C Low Level											
Blank (BC50175-BLK1) Blank							Prepared & Analyzed: 03/04/2025				
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Chlordane, total	ND	0.200	"								
Surrogate: Decachlorobiphenyl	*0.0883*		*"*	*0.200*		*44.1*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0756*		*"*	*0.200*		*37.8*	*30-150*				
LCS (BC50175-BS1) LCS							Prepared & Analyzed: 03/04/2025				
4,4'-DDD	0.0544	0.00400	ug/L	0.100		54.4	40-140			20	
4,4'-DDE	0.0496	0.00400	"	0.100		49.6	40-140			20	
4,4'-DDT	0.0597	0.00400	"	0.100		59.7	40-140			20	
Aldrin	0.0404	0.00400	"	0.100		40.4	40-140			20	
alpha-BHC	0.0524	0.00400	"	0.100		52.4	40-140			20	
alpha-Chlordane	0.0477	0.00400	"	0.100		47.7	40-140			20	
beta-BHC	0.0570	0.00400	"	0.100		57.0	40-140			20	
delta-BHC	0.0434	0.00400	"	0.100		43.4	40-140			20	
Dieldrin	0.0508	0.00200	"	0.100		50.8	40-140			20	
Endosulfan I	0.0521	0.00400	"	0.100		52.1	40-140			20	
Endosulfan II	0.0572	0.00400	"	0.100		57.2	40-140			20	
Endosulfan sulfate	0.0546	0.00400	"	0.100		54.6	40-140			20	
Endrin	0.0560	0.00400	"	0.100		56.0	40-140			20	
Endrin aldehyde	0.0623	0.0100	"	0.100		62.3	40-140			20	
Endrin ketone	0.0597	0.0100	"	0.100		59.7	40-140			20	
gamma-BHC (Lindane)	0.0556	0.00400	"	0.100		55.6	40-140			20	
gamma-Chlordane	0.0494	0.0100	"	0.100		49.4	40-140			20	
Heptachlor	0.0480	0.00400	"	0.100		48.0	40-140			20	
Heptachlor epoxide	0.0532	0.00400	"	0.100		53.2	40-140			20	
Methoxychlor	0.0634	0.00400	"	0.100		63.4	40-140			20	
Surrogate: Decachlorobiphenyl	*0.0812*		*"*	*0.200*		*40.6*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0696*		*"*	*0.200*		*34.8*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50175 - EPA SW846-3510C Low Level											
LCS Dup (BC50175-BSD1) LCS Dup							Prepared & Analyzed: 03/04/2025				
4,4'-DDD	0.0641	0.00400	ug/L	0.100		64.1	40-140		16.4	20	
4,4'-DDE	0.0570	0.00400	"	0.100		57.0	40-140		13.9	20	
4,4'-DDT	0.0704	0.00400	"	0.100		70.4	40-140		16.4	20	
Aldrin	0.0469	0.00400	"	0.100		46.9	40-140		14.9	20	
alpha-BHC	0.0623	0.00400	"	0.100		62.3	40-140		17.4	20	
alpha-Chlordane	0.0550	0.00400	"	0.100		55.0	40-140		14.3	20	
beta-BHC	0.0674	0.00400	"	0.100		67.4	40-140		16.7	20	
delta-BHC	0.0520	0.00400	"	0.100		52.0	40-140		17.9	20	
Dieldrin	0.0603	0.00200	"	0.100		60.3	40-140		17.1	20	
Endosulfan I	0.0600	0.00400	"	0.100		60.0	40-140		14.1	20	
Endosulfan II	0.0667	0.00400	"	0.100		66.7	40-140		15.3	20	
Endosulfan sulfate	0.0640	0.00400	"	0.100		64.0	40-140		15.9	20	
Endrin	0.0660	0.00400	"	0.100		66.0	40-140		16.4	20	
Endrin aldehyde	0.0722	0.0100	"	0.100		72.2	40-140		14.8	20	
Endrin ketone	0.0703	0.0100	"	0.100		70.3	40-140		16.3	20	
gamma-BHC (Lindane)	0.0661	0.00400	"	0.100		66.1	40-140		17.3	20	
gamma-Chlordane	0.0573	0.0100	"	0.100		57.3	40-140		14.8	20	
Heptachlor	0.0578	0.00400	"	0.100		57.8	40-140		18.5	20	
Heptachlor epoxide	0.0620	0.00400	"	0.100		62.0	40-140		15.3	20	
Methoxychlor	0.0739	0.00400	"	0.100		73.9	40-140		15.4	20	
Surrogate: Decachlorobiphenyl	*0.101*		*"*	*0.200*		*50.7*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0828*		*"*	*0.200*		*41.4*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50173 - EPA SW846-3510C Low Level											
Blank (BC50173-BLK1) Blank								Prepared: 03/04/2025 Analyzed: 03/05/2025			
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.0850*		*"*	*0.200*		*42.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.117*		*"*	*0.200*		*58.5*	*30-120*				
LCS (BC50173-BS2) LCS								Prepared: 03/04/2025 Analyzed: 03/05/2025			
Aroclor 1016	0.418	0.0500	ug/L	1.00		41.8	40-120				
Aroclor 1260	0.443	0.0500	"	1.00		44.3	40-120				
Surrogate: Tetrachloro-m-xylene	*0.0560*		*"*	*0.200*		*28.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0870*		*"*	*0.200*		*43.5*	*30-120*				
LCS Dup (BC50173-BSD2) LCS Dup								Prepared: 03/04/2025 Analyzed: 03/05/2025			
Aroclor 1016	0.539	0.0500	ug/L	1.00		53.9	40-120		25.2	30	
Aroclor 1260	0.555	0.0500	"	1.00		55.5	40-120		22.4	30	
Surrogate: Tetrachloro-m-xylene	*0.0740*		*"*	*0.200*		*37.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.107*		*"*	*0.200*		*53.5*	*30-120*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50076 - EPA 8151A											
Blank (BC50076-BLK1) Blank							Prepared & Analyzed: 03/04/2025				
2,4,5-T	ND	5.00	ug/L								
2,4,5-TP (Silvex)	ND	5.00	"								
2,4-D	ND	5.00	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*134*		*"*	*125*		*108*	*30-150*				
LCS (BC50076-BS1) LCS							Prepared & Analyzed: 03/04/2025				
2,4,5-T	18.2	5.00	ug/L	20.0		91.2	10-140				
2,4,5-TP (Silvex)	20.2	5.00	"	20.0		101	10-139				
2,4-D	18.5	5.00	"	20.0		92.5	10-140				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*146*		*"*	*125*		*117*	*30-150*				
LCS Dup (BC50076-BSD1) LCS Dup							Prepared & Analyzed: 03/04/2025				
2,4,5-T	17.0	5.00	ug/L	20.0		85.0	10-140		7.09	30	
2,4,5-TP (Silvex)	19.0	5.00	"	20.0		95.0	10-139		6.37	30	
2,4-D	17.8	5.00	"	20.0		88.8	10-140		4.14	30	
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*137*		*"*	*125*		*110*	*30-150*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50283 - EPA 3015A											
Blank (BC50283-BLK1) Blank								Prepared: 03/05/2025 Analyzed: 03/06/2025			
Aluminum	ND	0.0556	mg/L								
Barium	ND	0.0278	"								
Calcium	ND	0.0556	"								
Chromium	ND	0.00556	"								
Cobalt	ND	0.00444	"								
Copper	ND	0.0222	"								
Iron	ND	0.278	"								
Lead	ND	0.00556	"								
Magnesium	ND	0.0556	"								
Manganese	ND	0.00556	"								
Nickel	ND	0.0111	"								
Potassium	ND	0.0556	"								
Silver	ND	0.00556	"								
Sodium	ND	0.556	"								
Vanadium	ND	0.0111	"								
Zinc	ND	0.0278	"								
LCS (BC50283-BS1) LCS								Prepared: 03/05/2025 Analyzed: 03/06/2025			
Aluminum	1.88		ug/mL	2.00		93.8	80-120				
Barium	2.07		"	2.00		104	80-120				
Calcium	1.40		"	1.00		140	80-120	High Bias			
Chromium	0.206		"	0.200		103	80-120				
Cobalt	0.523		"	0.500		105	80-120				
Copper	0.256		"	0.250		102	80-120				
Iron	0.949		"	1.00		94.9	80-120				
Lead	0.519		"	0.500		104	80-120				
Magnesium	1.02		"	1.00		102	80-120				
Manganese	0.512		"	0.500		102	80-120				
Nickel	0.523		"	0.500		105	80-120				
Potassium	1.46		"	1.00		146	80-120	High Bias			
Silver	0.0487		"	0.0500		97.4	80-120				
Sodium	0.960		"	1.00		96.0	80-120				
Vanadium	0.495		"	0.500		99.0	80-120				
Zinc	0.525		"	0.500		105	80-120				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50285 - EPA 3015A											
Blank (BC50285-BLK1) Blank								Prepared & Analyzed: 03/05/2025			
Aluminum - Dissolved	ND	0.0556	mg/L								
Barium - Dissolved	ND	0.0278	"								
Calcium - Dissolved	ND	0.0556	"								
Chromium - Dissolved	ND	0.00556	"								
Cobalt - Dissolved	ND	0.00444	"								
Copper - Dissolved	ND	0.0222	"								
Iron - Dissolved	ND	0.278	"								
Lead - Dissolved	ND	0.00556	"								
Magnesium - Dissolved	ND	0.0556	"								
Manganese - Dissolved	ND	0.00556	"								
Nickel - Dissolved	ND	0.0111	"								
Potassium - Dissolved	ND	0.0556	"								
Silver - Dissolved	ND	0.00556	"								
Sodium - Dissolved	ND	0.556	"								
Vanadium - Dissolved	ND	0.0111	"								
Zinc - Dissolved	ND	0.0278	"								
LCS (BC50285-BS1) LCS								Prepared & Analyzed: 03/05/2025			
Aluminum - Dissolved	1.96		ug/mL	2.00		98.2	80-120				
Barium - Dissolved	2.10		"	2.00		105	80-120				
Calcium - Dissolved	2.24		"	1.00		224	80-120	High Bias			
Chromium - Dissolved	0.218		"	0.200		109	80-120				
Cobalt - Dissolved	0.534		"	0.500		107	80-120				
Copper - Dissolved	0.274		"	0.250		110	80-120				
Iron - Dissolved	1.03		"	1.00		103	80-120				
Lead - Dissolved	0.515		"	0.500		103	80-120				
Magnesium - Dissolved	1.04		"	1.00		104	80-120				
Manganese - Dissolved	0.533		"	0.500		107	80-120				
Nickel - Dissolved	0.530		"	0.500		106	80-120				
Potassium - Dissolved	1.07		"	1.00		107	80-120				
Silver - Dissolved	0.0488		"	0.0500		97.6	80-120				
Sodium - Dissolved	1.06		"	1.00		106	80-120				
Vanadium - Dissolved	0.519		"	0.500		104	80-120				
Zinc - Dissolved	0.570		"	0.500		114	80-120				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50285 - EPA 3015A											
Duplicate (BC50285-DUP1) Duplicate	*Source sample: 25B1634-02 (TMW10_022825)							Prepared & Analyzed: 03/05/2025			
Aluminum - Dissolved	ND	0.0556	mg/L		ND					20	
Barium - Dissolved	0.356	0.0278	"		0.353				1.00	20	
Calcium - Dissolved	252	0.0556	"		240				4.61	20	
Chromium - Dissolved	ND	0.00556	"		ND					20	
Cobalt - Dissolved	ND	0.00444	"		ND					20	
Copper - Dissolved	ND	0.0222	"		ND					20	
Iron - Dissolved	51.8	0.278	"		51.2				1.23	20	
Lead - Dissolved	ND	0.00556	"		ND					20	
Magnesium - Dissolved	61.5	0.0556	"		58.5				4.93	20	
Manganese - Dissolved	5.90	0.00556	"		5.84				1.07	20	
Nickel - Dissolved	ND	0.0111	"		ND					20	
Potassium - Dissolved	32.9	0.0556	"		31.7				3.67	20	
Silver - Dissolved	ND	0.00556	"		ND					20	
Sodium - Dissolved	1420	0.556	"		1380				2.67	20	
Vanadium - Dissolved	ND	0.0111	"		ND					20	
Zinc - Dissolved	ND	0.0278	"		ND					20	
Matrix Spike (BC50285-MS1) Matrix Spike	*Source sample: 25B1634-02 (TMW10_022825)							Prepared & Analyzed: 03/05/2025			
Aluminum - Dissolved	2.80	0.0556	mg/L	2.22	ND	126	75-125	High Bias			
Barium - Dissolved	2.55	0.0278	"	2.22	0.353	99.0	75-125				
Calcium - Dissolved	251	0.0556	"	1.11	240	958	75-125	High Bias			
Chromium - Dissolved	0.230	0.00556	"	0.222	ND	104	75-125				
Cobalt - Dissolved	0.543	0.00444	"	0.556	ND	97.8	75-125				
Copper - Dissolved	0.353	0.0222	"	0.278	ND	127	75-125	High Bias			
Iron - Dissolved	52.7	0.278	"	1.11	51.2	130	75-125	High Bias			
Lead - Dissolved	0.530	0.00556	"	0.556	ND	95.4	75-125				
Magnesium - Dissolved	61.8	0.0556	"	1.11	58.5	297	75-125	High Bias			
Manganese - Dissolved	6.39	0.00556	"	0.556	5.84	98.6	75-125				
Nickel - Dissolved	0.545	0.0111	"	0.556	ND	98.1	75-125				
Potassium - Dissolved	33.2	0.0556	"	1.11	31.7	131	75-125	High Bias			
Silver - Dissolved	0.0619	0.00556	"	0.0556	ND	111	75-125				
Sodium - Dissolved	1400	0.556	"	1.11	1380	NR	75-125	High Bias			
Vanadium - Dissolved	0.589	0.0111	"	0.556	ND	106	75-125				
Zinc - Dissolved	0.571	0.0278	"	0.556	ND	103	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50285 - EPA 3015A											
Post Spike (BC50285-PS1) Post Spike	*Source sample: 25B1634-02 (TMW10_022825)							Prepared & Analyzed: 03/05/2025			
Aluminum - Dissolved	2.46		ug/mL	2.00	0.0101	123	75-125				
Barium - Dissolved	2.25		"	2.00	0.317	96.7	75-125				
Calcium - Dissolved	227		"	1.00	216	NR	75-125	High Bias			
Chromium - Dissolved	0.203		"	0.200	0.00120	101	75-125				
Cobalt - Dissolved	0.478		"	0.500	0.000100	95.6	75-125				
Copper - Dissolved	0.310		"	0.250	0.00430	122	75-125				
Iron - Dissolved	47.5		"	1.00	46.1	141	75-125	High Bias			
Lead - Dissolved	0.468		"	0.500	0.000100	93.6	75-125				
Magnesium - Dissolved	56.0		"	1.00	52.7	331	75-125	High Bias			
Manganese - Dissolved	5.76		"	0.500	5.26	99.7	75-125				
Nickel - Dissolved	0.478		"	0.500	0.00130	95.4	75-125				
Potassium - Dissolved	29.6		"	1.00	28.5	104	75-125				
Silver - Dissolved	0.0576		"	0.0500	-0.000800	115	75-125				
Sodium - Dissolved	1270		"	1.00	1240	NR	75-125	High Bias			
Vanadium - Dissolved	0.518		"	0.500	0.000300	103	75-125				
Zinc - Dissolved	0.490		"	0.500	0.0240	93.3	75-125				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50264 - EPA 3015A											
Blank (BC50264-BLK1) Blank								Prepared & Analyzed: 03/05/2025			
Antimony	ND	1.11	ug/L								
Arsenic	ND	1.11	"								
Beryllium	ND	0.333	"								
Cadmium	ND	0.556	"								
Selenium	ND	1.11	"								
Thallium	ND	1.11	"								
LCS (BC50264-BS1) LCS								Prepared & Analyzed: 03/05/2025			
Antimony	40.3		ug/L	50.0		80.7	80-120				
Arsenic	47.3		"	50.0		94.6	80-120				
Beryllium	45.6		"	50.0		91.3	80-120				
Cadmium	41.1		"	50.0		82.3	80-120				
Selenium	48.1		"	50.0		96.2	80-120				
Thallium	48.7		"	50.0		97.3	80-120				
Duplicate (BC50264-DUP1) Duplicate *Source sample: 25B1634-02 (TMW10_022825)								Prepared & Analyzed: 03/05/2025			
Antimony	ND	1.11	ug/L		ND					20	
Arsenic	1.93	1.11	"		2.33				19.0	20	
Beryllium	ND	0.333	"		ND					20	
Cadmium	ND	0.556	"		ND					20	
Selenium	4.03	1.11	"		2.58				43.7	20	Non-dir.
Thallium	ND	1.11	"		ND					20	
Matrix Spike (BC50264-MS1) Matrix Spike *Source sample: 25B1634-02 (TMW10_022825)								Prepared & Analyzed: 03/05/2025			
Antimony	36.5		ug/L	50.0	-0.033	73.0	75-125	Low Bias			
Arsenic	52.5		"	50.0	2.10	101	75-125				
Beryllium	20.8		"	50.0	0.014	41.6	75-125	Low Bias			
Cadmium	27.9		"	50.0	0.027	55.7	75-125	Low Bias			
Selenium	55.0		"	50.0	2.32	105	75-125				
Thallium	55.3		"	50.0	0.021	111	75-125				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50275 - EPA 3015A											
Blank (BC50275-BLK1) Blank								Prepared: 03/05/2025 Analyzed: 03/06/2025			
Antimony - Dissolved	ND	1.00	ug/L								
Arsenic - Dissolved	ND	1.00	"								
Beryllium - Dissolved	ND	0.300	"								
Cadmium - Dissolved	ND	0.500	"								
Selenium - Dissolved	ND	1.00	"								
Thallium - Dissolved	ND	1.00	"								
LCS (BC50275-BS1) LCS								Prepared: 03/05/2025 Analyzed: 03/06/2025			
Antimony - Dissolved	53.6		ug/L	50.0		107	80-120				
Arsenic - Dissolved	46.8		"	50.0		93.6	80-120				
Beryllium - Dissolved	52.9		"	50.0		106	80-120				
Cadmium - Dissolved	48.9		"	50.0		97.7	80-120				
Selenium - Dissolved	50.9		"	50.0		102	80-120				
Thallium - Dissolved	43.0		"	50.0		86.0	80-120				
Duplicate (BC50275-DUP1) Duplicate *Source sample: 25B1634-02 (TMW10_022825)								Prepared: 03/05/2025 Analyzed: 03/06/2025			
Antimony - Dissolved	ND	1.00	ug/L		ND					20	
Arsenic - Dissolved	1.90	1.00	"		1.23				43.1	20	Non-dir.
Beryllium - Dissolved	ND	0.300	"		ND					20	
Cadmium - Dissolved	ND	0.500	"		ND					20	
Selenium - Dissolved	2.65	1.00	"		1.34				65.6	20	Non-dir.
Thallium - Dissolved	ND	1.00	"		ND					20	
Matrix Spike (BC50275-MS1) Matrix Spike *Source sample: 25B1634-02 (TMW10_022825)								Prepared: 03/05/2025 Analyzed: 03/06/2025			
Antimony - Dissolved	65.6		ug/L	50.0	-0.278	131	75-125	High Bias			
Arsenic - Dissolved	52.2		"	50.0	1.23	102	75-125				
Beryllium - Dissolved	30.8		"	50.0	-0.007	61.6	75-125	Low Bias			
Cadmium - Dissolved	57.2		"	50.0	0.008	114	75-125				
Selenium - Dissolved	58.4		"	50.0	1.34	114	75-125				
Thallium - Dissolved	40.8		"	50.0	-0.041	81.6	75-125				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50258 - EPA SW846-7470A												
Blank (BC50258-BLK1)	Blank								Prepared & Analyzed: 03/05/2025			
Mercury - Dissolved		ND	0.0002	mg/L								
LCS (BC50258-BS1)	LCS								Prepared & Analyzed: 03/05/2025			
Mercury - Dissolved		0.0020	0.0002	mg/L	0.00200		102	80-120				
Batch BC50260 - EPA SW846-7470A												
Blank (BC50260-BLK1)	Blank								Prepared & Analyzed: 03/05/2025			
Mercury		ND	0.0002	mg/L								
Blank (BC50260-BLK2)	Blank								Prepared & Analyzed: 03/05/2025			
Mercury		ND	0.0002	mg/L								
LCS (BC50260-BS1)	LCS								Prepared & Analyzed: 03/05/2025			
Mercury		0.0019930	0.0002	mg/L	0.00200		99.7	80-120				
LCS (BC50260-BS2)	LCS								Prepared & Analyzed: 03/05/2025			
Mercury		0.0018386	0.0002	mg/L	0.00200		91.9	80-120				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB52025 - Analysis Preparation											
Blank (BB52025-BLK1) Blank								Prepared & Analyzed: 02/28/2025			
Chromium, Hexavalent	ND	0.0100	mg/L								
LCS (BB52025-BS1) LCS								Prepared & Analyzed: 02/28/2025			
Chromium, Hexavalent	0.442	0.0100	mg/L	0.500		88.4	85-115				
Batch BC50347 - Analysis Preparation											
Blank (BC50347-BLK1) Blank								Prepared & Analyzed: 03/05/2025			
Cyanide, total	ND	0.0100	mg/L								
LCS (BC50347-BS1) LCS								Prepared & Analyzed: 03/05/2025			
Cyanide, total	0.0876	0.0100	mg/L	0.100		87.6	80-120				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
25B1634-01	TMW07_022825	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
25B1634-02	TMW10_022825	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
25B1634-03	GWTB01_022825	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

S-HI	Surrogate recovery is above acceptance limits. No target compound is detected in sample.
S-GC	Two surrogates are used for this analysis. One surrogate recovered within control limits therefore the analysis is acceptable.
S-08	The recovery of this surrogate was outside of QC limits.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
M-CCV1	The recovery for this element in the Continuing Calibration Verification (CCV) was outside the 90-110% recovery criteria.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This legal document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | 2161 Whitesville Rd Toms River, NJ 08755 | clientservices@yorklab.com | 800-306-YORK

YORK Project Number: 25B1634

Page 1 of 2

Report To:
Company: Langan
Address: 368 Ninth Ave 8th Fl NY, NY 10001
Phone.: 212 479 5400
Contact: Lexi Haley
E-mail: LHaley@langan.com

Invoice To:
Company:
Address:
Phone.:
Contact:
E-mail:

YOUR Project Name / Number: Ring Road at Ferry Point Park 170773001

PO Number:

Samples Collected From: NY [X] NJ [ ] CT [ ] PA [ ] Other: (please specify)

Turn-Around Time: RUSH - Next Day; RUSH - Two Day; RUSH - Three Day; RUSH - Four Day; RUSH - Five Day; Standard (6-9 Day) [X]; PFAS Standard 7-10 Day

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Sarah Walters / Savannah Walters

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other:	Part 375 VOCs	Part 375 SVOCs, 8 Pest	Herb, TAL metals (incl hex)	& tri UNDMinum & total cyanide	(dissolved & total), 1,4 dioxane	PFAS							Grab or Comp. G/C
TMW07_022825	2/28/25	1440	GW	10	3		2		1					X	X	X	X	X	X							
TMW10_022825	↓	1021	↓	10	3		2		1					X	X	X	X	X	X							
~~FB~~ NTB01_022825	↓	—	AQ		2									X												

Field Filtered [X]
Lab Filtered [ ]

Comments: please cc: datamanagement@langan.com areach@langan.com and swalters@langan.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N | Containers Intact: Y / N | COC/Labels Agree: Y / N | Preservation Confirmed: Y / N
COC Complete: Y / N | COC Received: Y / N | Appropriate Sample Volumes: Y / N | Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N | Samples Submitted within Holding Times: Y / N | Corrective Action Form Required: Y / N

Relinquished by / Company	Date/Time	Received by / Company	Date/Time	Relinquished by / Company	Date/Time
1. Sarah Walters Langan	2/28/25 1634	1. [illegible]	2/28/25 16:35	2. [illegible]	2/28/25 20:30
2. Samples Received by / Company	Date/Time	3. Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by [illegible]	Date/Time 2/28/25 20:30

Temperature 23 Degrees C

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This legal document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | 2161 Whitesville Rd Toms River, NJ 08755 | clientservices@yorklab.com | 800-306-YORK

YORK Project Number: 25B1634

Report To:
Company: Langan
Address: 368 Ninth Ave 8th Fl NY, NY 10001
Phone.: 212-479 5400
Contact: Levi Haley
E-mail: LHaley@langan.com

Invoice To:
Company:
Address:
Phone.:
Contact:
E-mail:

YOUR Project Name / Number: Ring Road at Ferry Point Park 17077.3001

PO Number:

Samples Collected From: NY ✓ | NJ | CT | PA | Other: (please specify)

Turn-Around Time: RUSH - Next Day | RUSH - Two Day | RUSH - Three Day | RUSH - Four Day | RUSH - Five Day | Standard (6-9 Day) ✓ | PFAS Standard 7-10 Day

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Savannah Walters

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Preservative (please list number of containers)

Analyses Requested

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other: DI Water	Part 375 VOCs	Part 375 SVOCs, PCBs, Pest	Hexavalent Chromium (in text)	Tin chromium & total Cyanide	1,4-Dioxane	PFAS	Grab or Comp. G/C
SB10-0-2	2/28/25	0845	S	3		1							2	X	X	X	X	X		
SB10-5-7		0856		4										X	X	X	X	X	X	
SB09-0-2		1205		3										X	X	X	X	X		
SB09-5-7		1214												X	X	X	X	X		
SB08-0-2		1249												X	X	X	X	X		
SB08-5-7		1256												X	X	X	X	X		
SB07-0-2		1313												X	X	X	X	X	X	
SB07-5-7		1320												X	X	X	X	X		
SB06-0-2		1456												X	X	X	X	X		
SB06-5-7		1505												X	X	X	X	X		
SODWP02-022825		—		4										X	X	X	X	X		
SOTB01-022825			AQ		2									X						
SOFBLPFAS-022825		0938		2															X	
SOFB01-022825		0945		8	3		2		1					X	X	X	X	X		

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered | Lab Filtered

Comments: please cc: datamanagement@langan.com, areach@langan.com & swalters@langan.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N

Custody Seals: Y / N | Containers Intact: Y / N | COC/Labels Agree: Y / N | Preservation Confirmed: Y / N
COC Complete: Y / N | COC Received: Y / N | Appropriate Sample Volumes: Y / N | Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N | Samples Submitted within Holding Times: Y / N | Corrective Action Form Required: Y / N

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Savannah Walters Langan	2/28/25 1634	[illegible]	2/28/25 16:35	[illegible]	2/28/25 20:30
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				[illegible]	2/28/25 20:30 / 23 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Report Date: 03/12/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0068

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/12/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0068

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 03, 2025 and listed below. The project was identified as your project: **170773001**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25C0068-19	TMW15_030325	Ground Water	03/03/2025	03/03/2025
25C0068-20	GWTB02_030325	Water	03/03/2025	03/03/2025

General Notes for York Project (SDG) No.: 25C0068

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By **Date:** 03/12/2025

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: TMW15_030325 **York Sample ID:** 25C0068-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Ground Water	March 3, 2025 10:21 am	03/03/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: TMW15_030325 **York Sample ID:** 25C0068-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Ground Water	March 3, 2025 10:21 am	03/03/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**1.75**		ug/L	1.34	2.00	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	ug/L	0.372	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: TMW15_030325 **York Sample ID:** 25C0068-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Ground Water	March 3, 2025 10:21 am	03/03/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: TMW15_030325 **York Sample ID:** 25C0068-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Ground Water	March 3, 2025 10:21 am	03/03/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/06/2025 08:24	03/06/2025 12:23	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*110 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.3 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*94.0 %*	*79-122*

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:** EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW15_030325 **York Sample ID:** 25C0068-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Ground Water	March 3, 2025 10:21 am	03/03/2025

SVOA, 8270 LOW MASTER

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-48-7	2-Methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
99-09-2	3-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		ug/L	5.00	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND	CAL-E	ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		ug/L	5.00	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CCVE, QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW15_030325 **York Sample ID:** 25C0068-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Ground Water	March 3, 2025 10:21 am	03/03/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:** EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.00	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	NELAC-NY10854,PADEP-68-04440		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.00	10.0	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		ug/L	0.750	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	QL-02	ug/L	2.50	5.00	1	EPA 8270D	03/07/2025 08:04	03/07/2025 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*38.7 %*	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*23.7 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*61.0 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*62.2 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*61.1 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*73.9 %*	*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:** EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: TMW15_030325 **York Sample ID:** 25C0068-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Ground Water	March 3, 2025 10:21 am	03/03/2025

83-32-9	Acenaphthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-12-7	Anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		ug/L	0.500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	Chrysene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	Fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	Fluorene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
118-74-1	Hexachlorobenzene	ND		ug/L	0.0200	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND		ug/L	0.500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.120**		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND	ICVE, CCVE	ug/L	0.250	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-86-5	Pentachlorophenol	ND		ug/L	0.250	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
85-01-8	Phenanthrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/07/2025 08:05	03/10/2025 17:21	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **TMW15_030325** **York Sample ID:** **25C0068-19**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Ground Water	March 3, 2025 10:21 am	03/03/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270E SIM Certifications: NJDEP-CT005,NELAC-NY10854	03/04/2025 16:47	03/05/2025 21:31	SS

	Surrogate Recoveries	Result		Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*136 %*	S-08, S-HI	*36.6-118*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**3.90**		ng/L	0.450	1.69	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**2.69**		ng/L	0.335	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**2.46**		ng/L	0.679	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**1.63**	J	ng/L	0.650	1.75	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
335-67-1	**Perfluorooctanoic acid (PFOA)**	**21.3**		ng/L	0.402	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**3.72**		ng/L	0.784	1.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
375-95-1	**Perfluorononanoic acid (PFNA)**	**1.42**	J	ng/L	0.497	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.717	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.08	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.842	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.708	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.660	1.91	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.756	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
2991-50-6	N-EtFOSAA	ND		ng/L	0.985	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**2.98**	J	ng/L	0.220	3.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.842	1.91	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM

Sample Information

Client Sample ID: TMW15_030325 **York Sample ID:** 25C0068-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Ground Water	March 3, 2025 10:21 am	03/03/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.870	1.83	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.26	1.85	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	7.17	7.27	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.96	7.35	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**5.94**	J	ng/L	0.316	7.65	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.478	3.41	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/09/2025 14:27	03/11/2025 02:14	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.05	3.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/09/2025 14:27	03/11/2025 02:14	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.239	3.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/09/2025 14:27	03/11/2025 02:14	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.354	3.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/09/2025 14:27	03/11/2025 02:14	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.727	1.80	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.71	7.17	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.09	7.65	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.32	7.23	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.670	7.16	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
919005-14-4	ADONA	ND		ng/L	0.507	7.23	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.890	1.86	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 02:14	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.823	1.84	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:14	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND	PF-LCS-L	ng/L	1.94	4.78	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 02:14	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.01	23.9	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 02:14	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.06	23.9	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 02:14	AM
24448-09-7	* N-MeFOSE	ND		ng/L	3.82	19.1	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 02:14	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.51	1.91	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 02:14	AM

Sample Information

Client Sample ID: TMW15_030325 **York Sample ID:** 25C0068-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Ground Water	March 3, 2025 10:21 am	03/03/2025

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1691-99-2	* N-EtFOSE	ND		ng/L	3.82	19.1	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 02:14	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.72	1.91	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 02:14	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*131 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*137 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*154 %*	PFSu-H	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*123 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*136 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*115 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*88.4 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*55.8 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*18.7 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*20.8 %*	PFSu-L	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*122 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*116 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*114 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*91.6 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*78.8 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*188 %*		*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*131 %*		*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*124 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*358 %*	PFSu-H	*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*61.4 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*37.7 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*104 %*		*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*21.8 %*	PFSu-L	*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*28.7 %*		*25-150*

Sample Information

Client Sample ID: TMW15_030325 **York Sample ID:** 25C0068-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Ground Water	March 3, 2025 10:21 am	03/03/2025

PEST, 8081 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW15_030325 **York Sample ID:** 25C0068-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Ground Water	March 3, 2025 10:21 am	03/03/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B	03/06/2025 14:08	03/07/2025 05:43	RJ
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*24.6 %*	S-08, S-GC	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*35.0 %*		*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 10:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 10:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 10:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 10:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 10:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 10:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 10:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/09/2025 10:56	NF
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*28.5 %*	S-08, S-09	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*19.0 %*	S-09, S-08	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	03/04/2025 08:00	03/04/2025 15:59	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	03/04/2025 08:00	03/04/2025 15:59	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **TMW15_030325** **York Sample ID:** **25C0068-19**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Ground Water	March 3, 2025 10:21 am	03/03/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	03/04/2025 08:00	03/04/2025 15:59	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*84.4 %*	*30-150*

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.105**		mg/L	0.0278	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**23.2**	M-BS	mg/L	0.0556	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**0.0170**		mg/L	0.00444	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**0.535**		mg/L	0.278	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**9.25**		mg/L	0.0556	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**1.37**		mg/L	0.00556	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**0.0369**		mg/L	0.0111	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**9.96**		mg/L	0.0556	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**543**		mg/L	0.556	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	03/06/2025 08:42	03/06/2025 16:53	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICP Dissolved

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **TMW15_030325** **York Sample ID:** **25C0068-19**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Ground Water	March 3, 2025 10:21 am	03/03/2025

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.168**		mg/L	0.0556	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.107**		mg/L	0.0278	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**23.3**	M-BS	mg/L	0.0556	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**0.0172**		mg/L	0.00444	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**0.596**		mg/L	0.278	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**9.30**		mg/L	0.0556	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**1.39**		mg/L	0.00556	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**0.0397**		mg/L	0.0111	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**10.4**	M-BS	mg/L	0.0556	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**539**		mg/L	0.556	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	03/06/2025 08:54	03/06/2025 15:23	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.71**		ug/L	1.11	1	EPA 6020B	03/06/2025 08:54	03/06/2025 15:23	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.373**		ug/L	0.333	1	EPA 6020B	03/06/2025 08:54	03/06/2025 15:23	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	03/06/2025 08:54	03/06/2025 15:23	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW15_030325 **York Sample ID:** 25C0068-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Ground Water	March 3, 2025 10:21 am	03/03/2025

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	**Selenium**	**3.55**		ug/L	1.11	1	EPA 6020B	03/06/2025 08:54	03/06/2025 15:23	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/06/2025 08:54	03/06/2025 15:23	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-CCV 1	ug/L	1.11	1	EPA 6020B	03/06/2025 08:31	03/06/2025 18:24	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	03/06/2025 08:31	03/06/2025 18:24	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	03/06/2025 08:31	03/06/2025 18:24	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND	M-CCV 1	ug/L	0.556	1	EPA 6020B	03/06/2025 08:31	03/06/2025 18:24	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**2.77**	B	ug/L	1.11	1	EPA 6020B	03/06/2025 08:31	03/06/2025 18:24	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND	M-CCV 1	ug/L	1.11	1	EPA 6020B	03/06/2025 08:31	03/06/2025 18:24	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/06/2025 08:08	03/06/2025 08:08	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/05/2025 08:03	03/05/2025 08:03	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	03/03/2025 20:56	03/03/2025 21:30	SML
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW15_030325 **York Sample ID:** 25C0068-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Ground Water	March 3, 2025 10:21 am	03/03/2025

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	03/07/2025 14:58	03/07/2025 15:01	SL

Certifications:

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C-2016 / E-201(	03/05/2025 17:13	03/05/2025 21:00	SML

Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: GWTB02_030325 **York Sample ID:** 25C0068-20

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 3:00 pm	03/03/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: GWTB02_030325 **York Sample ID:** 25C0068-20

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 3:00 pm	03/03/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND		ug/L	1.34	2.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: GWTB02_030325 **York Sample ID:** 25C0068-20

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 3:00 pm	03/03/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: GWTB02_030325 **York Sample ID:** 25C0068-20

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0068	170773001	Water	March 3, 2025 3:00 pm	03/03/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/05/2025 09:39	03/05/2025 14:57	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.5 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*92.7 %*	*79-122*

Analytical Batch Summary

Batch ID: BC50076 **Preparation Method:** EPA 8151A **Prepared By:** YL

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-19	TMW15_030325	03/04/25
BC50076-BLK1	Blank	03/04/25
BC50076-BS1	LCS	03/04/25
BC50076-BSD1	LCS Dup	03/04/25

Batch ID: BC50139 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-19	TMW15_030325	03/03/25
BC50139-BLK1	Blank	03/03/25
BC50139-BS1	LCS	03/03/25
BC50139-DUP1	Duplicate	03/03/25
BC50139-MS1	Matrix Spike	03/03/25
BC50139-MSD1	Matrix Spike Dup	03/03/25

Batch ID: BC50176 **Preparation Method:** EPA 3535A **Prepared By:** NMB2

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-19	TMW15_030325	03/04/25
BC50176-BLK1	Blank	03/04/25
BC50176-BS1	LCS	03/04/25

Batch ID: BC50258 **Preparation Method:** EPA SW846-7470A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-19	TMW15_030325	03/05/25
BC50258-BLK1	Blank	03/05/25
BC50258-BS1	LCS	03/05/25

Batch ID: BC50272 **Preparation Method:** EPA 5030B **Prepared By:** SCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-20	GWTB02_030325	03/05/25
BC50272-BLK1	Blank	03/05/25
BC50272-BS1	LCS	03/05/25
BC50272-BSD1	LCS Dup	03/05/25

Batch ID: BC50347 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-19	TMW15_030325	03/05/25
BC50347-BLK1	Blank	03/05/25

BC50347-BS1	LCS	03/05/25

Batch ID: BC50367 **Preparation Method:** EPA SW846-7470A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-19	TMW15_030325	03/06/25
BC50367-BLK1	Blank	03/06/25
BC50367-BS1	LCS	03/06/25

Batch ID: BC50379 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-19	TMW15_030325	03/06/25
BC50379-BLK1	Blank	03/06/25
BC50379-BS1	LCS	03/06/25

Batch ID: BC50380 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-19	TMW15_030325	03/06/25
BC50380-BLK1	Blank	03/06/25
BC50380-BS1	LCS	03/06/25

Batch ID: BC50382 **Preparation Method:** EPA 5030B **Prepared By:** SCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-19	TMW15_030325	03/06/25
BC50382-BLK1	Blank	03/06/25
BC50382-BS1	LCS	03/06/25
BC50382-BSD1	LCS Dup	03/06/25

Batch ID: BC50383 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-19	TMW15_030325	03/06/25
BC50383-BLK1	Blank	03/06/25
BC50383-BS1	LCS	03/06/25
BC50383-DUP1	Duplicate	03/06/25
BC50383-MS1	Matrix Spike	03/06/25
BC50383-PS1	Post Spike	03/06/25

Batch ID: BC50387 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-19	TMW15_030325	03/06/25
BC50387-BLK1	Blank	03/06/25
BC50387-BS1	LCS	03/06/25

Batch ID: BC50436 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** AJC

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-19	TMW15_030325	03/06/25
BC50436-BLK1	Blank	03/06/25
BC50436-BS1	LCS	03/06/25

Batch ID: BC50487 **Preparation Method:** EPA 3510C **Prepared By:** NERP

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-19	TMW15_030325	03/07/25
BC50487-BLK1	Blank	03/07/25
BC50487-BS1	LCS	03/07/25

Batch ID: BC50488 **Preparation Method:** EPA 3510C **Prepared By:** NERP

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-19	TMW15_030325	03/07/25
BC50488-BLK2	Blank	03/07/25
BC50488-BS2	LCS	03/07/25

Batch ID: BC50548 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** AJC

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-19	TMW15_030325	03/07/25
BC50548-BLK1	Blank	03/07/25
BC50548-BS2	LCS	03/07/25

Batch ID: BC50557 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-19	TMW15_030325	03/07/25

Batch ID: BC50617 **Preparation Method:** EPA 1633 Prep **Prepared By:** JLH

YORK Sample ID	Client Sample ID	Preparation Date
25C0068-19	TMW15_030325	03/09/25
BC50617-BLK1	Blank	03/09/25
BC50617-BS1	LCS	03/09/25
BC50617-BS2	LCS	03/09/25

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
Blank (BC50272-BLK1) Blank									Prepared & Analyzed: 03/05/2025		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
Blank (BC50272-BLK1) Blank							Prepared & Analyzed: 03/05/2025				
n-Butylbenzene	ND	0.500	ug/L								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.40*		*"*	*10.0*		*94.0*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.36*		*"*	*10.0*		*93.6*	*79-122*				
LCS (BC50272-BS1) LCS							Prepared & Analyzed: 03/05/2025				
1,1,1,2-Tetrachloroethane	9.58		ug/L	10.0		95.8	82-126				
1,1,1-Trichloroethane	9.50		"	10.0		95.0	78-136				
1,1,2,2-Tetrachloroethane	9.19		"	10.0		91.9	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8		"	10.0		108	54-165				
1,1,2-Trichloroethane	9.09		"	10.0		90.9	82-123				
1,1-Dichloroethane	9.29		"	10.0		92.9	82-129				
1,1-Dichloroethylene	9.89		"	10.0		98.9	68-138				
1,2,3-Trichlorobenzene	10.8		"	10.0		108	76-136				
1,2,3-Trichloropropane	8.77		"	10.0		87.7	77-128				
1,2,4-Trichlorobenzene	10.6		"	10.0		106	76-137				
1,2,4-Trimethylbenzene	9.62		"	10.0		96.2	82-132				
1,2-Dibromo-3-chloropropane	8.29		"	10.0		82.9	45-147				
1,2-Dibromoethane	9.24		"	10.0		92.4	83-124				
1,2-Dichlorobenzene	9.07		"	10.0		90.7	79-123				
1,2-Dichloroethane	9.54		"	10.0		95.4	73-132				
1,2-Dichloropropane	9.07		"	10.0		90.7	78-126				
1,3,5-Trimethylbenzene	9.27		"	10.0		92.7	80-131				
1,3-Dichlorobenzene	9.17		"	10.0		91.7	86-122				
1,4-Dichlorobenzene	9.14		"	10.0		91.4	85-124				
1,4-Dioxane	154		"	210		73.2	10-349				
2-Butanone	9.31		"	10.0		93.1	49-152				
2-Hexanone	9.14		"	10.0		91.4	51-146				
4-Methyl-2-pentanone	9.59		"	10.0		95.9	57-145				
Acetone	7.05		"	10.0		70.5	14-150				
Acrolein	14.0		"	10.0		140	10-153				
Acrylonitrile	10.7		"	10.0		107	51-150				
Benzene	10.0		"	10.0		100	85-126				
Bromochloromethane	9.62		"	10.0		96.2	77-128				
Bromodichloromethane	9.26		"	10.0		92.6	79-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
LCS (BC50272-BS1) LCS							Prepared & Analyzed: 03/05/2025				
Bromoform	10.2		ug/L	10.0		102	78-133				
Bromomethane	9.85		"	10.0		98.5	43-168				
Carbon disulfide	10.8		"	10.0		108	68-146				
Carbon tetrachloride	9.98		"	10.0		99.8	77-141				
Chlorobenzene	9.23		"	10.0		92.3	88-120				
Chloroethane	10.2		"	10.0		102	65-136				
Chloroform	9.55		"	10.0		95.5	82-128				
Chloromethane	9.93		"	10.0		99.3	43-155				
cis-1,2-Dichloroethylene	10.2		"	10.0		102	83-129				
cis-1,3-Dichloropropylene	9.26		"	10.0		92.6	80-131				
Cyclohexane	10.3		"	10.0		103	63-149				
Dibromochloromethane	9.52		"	10.0		95.2	80-130				
Dibromomethane	8.87		"	10.0		88.7	72-134				
Dichlorodifluoromethane	11.5		"	10.0		115	44-144				
Ethyl Benzene	9.37		"	10.0		93.7	80-131				
Hexachlorobutadiene	10.5		"	10.0		105	67-146				
Isopropylbenzene	8.88		"	10.0		88.8	76-140				
Methyl acetate	13.1		"	10.0		131	51-139				
Methyl tert-butyl ether (MTBE)	9.67		"	10.0		96.7	76-135				
Methylcyclohexane	9.45		"	10.0		94.5	72-143				
Methylene chloride	9.10		"	10.0		91.0	55-137				
n-Butylbenzene	9.79		"	10.0		97.9	79-132				
n-Propylbenzene	8.96		"	10.0		89.6	78-133				
o-Xylene	9.33		"	10.0		93.3	78-130				
p- & m- Xylenes	18.5		"	20.0		92.4	77-133				
p-Isopropyltoluene	9.72		"	10.0		97.2	81-136				
sec-Butylbenzene	9.17		"	10.0		91.7	79-137				
Styrene	9.82		"	10.0		98.2	67-132				
tert-Butyl alcohol (TBA)	59.2		"	50.0		118	25-162				
tert-Butylbenzene	9.10		"	10.0		91.0	77-138				
Tetrachloroethylene	6.02		"	10.0		60.2	82-131	Low Bias			
Toluene	9.14		"	10.0		91.4	80-127				
trans-1,2-Dichloroethylene	9.62		"	10.0		96.2	80-132				
trans-1,3-Dichloropropylene	9.55		"	10.0		95.5	78-131				
Trichloroethylene	8.91		"	10.0		89.1	82-128				
Trichlorofluoromethane	10.2		"	10.0		102	67-139				
Vinyl Chloride	10.2		"	10.0		102	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.59*		*"*	*10.0*		*95.9*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.56*		*"*	*10.0*		*95.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.58*		*"*	*10.0*		*95.8*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
LCS Dup (BC50272-BSD1) LCS Dup							Prepared & Analyzed: 03/05/2025				
1,1,1,2-Tetrachloroethane	10.0		ug/L	10.0		100	82-126		4.29	30	
1,1,1-Trichloroethane	9.69		"	10.0		96.9	78-136		1.98	30	
1,1,2,2-Tetrachloroethane	10.1		"	10.0		101	76-129		9.04	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0		"	10.0		110	54-165		1.93	30	
1,1,2-Trichloroethane	10.0		"	10.0		100	82-123		9.83	30	
1,1-Dichloroethane	9.51		"	10.0		95.1	82-129		2.34	30	
1,1-Dichloroethylene	10.1		"	10.0		101	68-138		2.00	30	
1,2,3-Trichlorobenzene	13.4		"	10.0		134	76-136		21.4	30	
1,2,3-Trichloropropane	9.68		"	10.0		96.8	77-128		9.86	30	
1,2,4-Trichlorobenzene	11.6		"	10.0		116	76-137		9.57	30	
1,2,4-Trimethylbenzene	9.25		"	10.0		92.5	82-132		3.92	30	
1,2-Dibromo-3-chloropropane	9.57		"	10.0		95.7	45-147		14.3	30	
1,2-Dibromoethane	10.3		"	10.0		103	83-124		11.0	30	
1,2-Dichlorobenzene	9.39		"	10.0		93.9	79-123		3.47	30	
1,2-Dichloroethane	10.2		"	10.0		102	73-132		6.98	30	
1,2-Dichloropropane	9.31		"	10.0		93.1	78-126		2.61	30	
1,3,5-Trimethylbenzene	8.92		"	10.0		89.2	80-131		3.85	30	
1,3-Dichlorobenzene	9.23		"	10.0		92.3	86-122		0.652	30	
1,4-Dichlorobenzene	9.21		"	10.0		92.1	85-124		0.763	30	
1,4-Dioxane	181		"	210		86.2	10-349		16.3	30	
2-Butanone	10.6		"	10.0		106	49-152		12.5	30	
2-Hexanone	11.1		"	10.0		111	51-146		19.4	30	
4-Methyl-2-pentanone	11.3		"	10.0		113	57-145		16.3	30	
Acetone	8.50		"	10.0		85.0	14-150		18.6	30	
Acrolein	15.8		"	10.0		158	10-153	High Bias	12.0	30	
Acrylonitrile	12.3		"	10.0		123	51-150		14.6	30	
Benzene	10.2		"	10.0		102	85-126		1.49	30	
Bromochloromethane	10.3		"	10.0		103	77-128		6.83	30	
Bromodichloromethane	9.63		"	10.0		96.3	79-128		3.92	30	
Bromoform	11.7		"	10.0		117	78-133		13.3	30	
Bromomethane	9.41		"	10.0		94.1	43-168		4.57	30	
Carbon disulfide	10.9		"	10.0		109	68-146		0.643	30	
Carbon tetrachloride	10.2		"	10.0		102	77-141		1.89	30	
Chlorobenzene	9.39		"	10.0		93.9	88-120		1.72	30	
Chloroethane	10.2		"	10.0		102	65-136		0.197	30	
Chloroform	9.87		"	10.0		98.7	82-128		3.30	30	
Chloromethane	9.89		"	10.0		98.9	43-155		0.404	30	
cis-1,2-Dichloroethylene	10.0		"	10.0		100	83-129		1.68	30	
cis-1,3-Dichloropropylene	9.61		"	10.0		96.1	80-131		3.71	30	
Cyclohexane	10.6		"	10.0		106	63-149		2.50	30	
Dibromochloromethane	10.5		"	10.0		105	80-130		9.41	30	
Dibromomethane	9.60		"	10.0		96.0	72-134		7.90	30	
Dichlorodifluoromethane	11.8		"	10.0		118	44-144		2.06	30	
Ethyl Benzene	9.40		"	10.0		94.0	80-131		0.320	30	
Hexachlorobutadiene	10.4		"	10.0		104	67-146		0.383	30	
Isopropylbenzene	8.53		"	10.0		85.3	76-140		4.02	30	
Methyl acetate	15.0		"	10.0		150	51-139	High Bias	13.6	30	
Methyl tert-butyl ether (MTBE)	11.0		"	10.0		110	76-135		13.2	30	
Methylcyclohexane	9.45		"	10.0		94.5	72-143		0.00	30	
Methylene chloride	9.48		"	10.0		94.8	55-137		4.09	30	
n-Butylbenzene	9.55		"	10.0		95.5	79-132		2.48	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
LCS Dup (BC50272-BSD1) LCS Dup								Prepared & Analyzed: 03/05/2025			
n-Propylbenzene	8.69		ug/L	10.0		86.9	78-133		3.06	30	
o-Xylene	9.42		"	10.0		94.2	78-130		0.960	30	
p- & m- Xylenes	18.6		"	20.0		93.0	77-133		0.647	30	
p-Isopropyltoluene	9.37		"	10.0		93.7	81-136		3.67	30	
sec-Butylbenzene	8.82		"	10.0		88.2	79-137		3.89	30	
Styrene	10.2		"	10.0		102	67-132		3.30	30	
tert-Butyl alcohol (TBA)	73.8		"	50.0		148	25-162		22.1	30	
tert-Butylbenzene	8.79		"	10.0		87.9	77-138		3.47	30	
Tetrachloroethylene	5.99		"	10.0		59.9	82-131	Low Bias	0.500	30	
Toluene	9.11		"	10.0		91.1	80-127		0.329	30	
trans-1,2-Dichloroethylene	9.72		"	10.0		97.2	80-132		1.03	30	
trans-1,3-Dichloropropylene	10.3		"	10.0		103	78-131		7.85	30	
Trichloroethylene	8.89		"	10.0		88.9	82-128		0.225	30	
Trichlorofluoromethane	10.3		"	10.0		103	67-139		1.76	30	
Vinyl Chloride	10.4		"	10.0		104	58-145		1.55	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.38*		*"*	*10.0*		*93.8*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.39*		*"*	*10.0*		*93.9*	*79-122*				
Batch BC50382 - EPA 5030B											
Blank (BC50382-BLK1) Blank								Prepared & Analyzed: 03/06/2025			
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50382 - EPA 5030B											
Blank (BC50382-BLK1) Blank							Prepared & Analyzed: 03/06/2025				
Bromoform	ND	0.500	ug/L								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.9*		*"*	*10.0*		*109*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.32*		*"*	*10.0*		*93.2*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.35*		*"*	*10.0*		*93.5*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50382 - EPA 5030B											
LCS (BC50382-BS1) LCS							Prepared & Analyzed: 03/06/2025				
1,1,1,2-Tetrachloroethane	9.64		ug/L	10.0		96.4	82-126				
1,1,1-Trichloroethane	9.32		"	10.0		93.2	78-136				
1,1,2,2-Tetrachloroethane	9.94		"	10.0		99.4	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4		"	10.0		104	54-165				
1,1,2-Trichloroethane	9.62		"	10.0		96.2	82-123				
1,1-Dichloroethane	9.33		"	10.0		93.3	82-129				
1,1-Dichloroethylene	9.76		"	10.0		97.6	68-138				
1,2,3-Trichlorobenzene	11.1		"	10.0		111	76-136				
1,2,3-Trichloropropane	9.42		"	10.0		94.2	77-128				
1,2,4-Trichlorobenzene	10.4		"	10.0		104	76-137				
1,2,4-Trimethylbenzene	9.42		"	10.0		94.2	82-132				
1,2-Dibromo-3-chloropropane	8.87		"	10.0		88.7	45-147				
1,2-Dibromoethane	9.91		"	10.0		99.1	83-124				
1,2-Dichlorobenzene	9.22		"	10.0		92.2	79-123				
1,2-Dichloroethane	9.73		"	10.0		97.3	73-132				
1,2-Dichloropropane	9.25		"	10.0		92.5	78-126				
1,3,5-Trimethylbenzene	9.26		"	10.0		92.6	80-131				
1,3-Dichlorobenzene	9.16		"	10.0		91.6	86-122				
1,4-Dichlorobenzene	9.22		"	10.0		92.2	85-124				
1,4-Dioxane	183		"	210		87.1	10-349				
2-Butanone	9.52		"	10.0		95.2	49-152				
2-Hexanone	10.4		"	10.0		104	51-146				
4-Methyl-2-pentanone	10.8		"	10.0		108	57-145				
Acetone	7.76		"	10.0		77.6	14-150				
Acrolein	16.0		"	10.0		160	10-153	High Bias			
Acrylonitrile	11.5		"	10.0		115	51-150				
Benzene	9.92		"	10.0		99.2	85-126				
Bromochloromethane	10.0		"	10.0		100	77-128				
Bromodichloromethane	9.49		"	10.0		94.9	79-128				
Bromoform	10.6		"	10.0		106	78-133				
Bromomethane	11.4		"	10.0		114	43-168				
Carbon disulfide	10.2		"	10.0		102	68-146				
Carbon tetrachloride	9.73		"	10.0		97.3	77-141				
Chlorobenzene	9.35		"	10.0		93.5	88-120				
Chloroethane	9.77		"	10.0		97.7	65-136				
Chloroform	9.62		"	10.0		96.2	82-128				
Chloromethane	9.32		"	10.0		93.2	43-155				
cis-1,2-Dichloroethylene	9.67		"	10.0		96.7	83-129				
cis-1,3-Dichloropropylene	9.47		"	10.0		94.7	80-131				
Cyclohexane	10.1		"	10.0		101	63-149				
Dibromochloromethane	10.1		"	10.0		101	80-130				
Dibromomethane	9.49		"	10.0		94.9	72-134				
Dichlorodifluoromethane	8.35		"	10.0		83.5	44-144				
Ethyl Benzene	9.46		"	10.0		94.6	80-131				
Hexachlorobutadiene	9.45		"	10.0		94.5	67-146				
Isopropylbenzene	8.87		"	10.0		88.7	76-140				
Methyl acetate	14.2		"	10.0		142	51-139	High Bias			
Methyl tert-butyl ether (MTBE)	10.3		"	10.0		103	76-135				
Methylcyclohexane	9.45		"	10.0		94.5	72-143				
Methylene chloride	9.22		"	10.0		92.2	55-137				
n-Butylbenzene	9.72		"	10.0		97.2	79-132				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50382 - EPA 5030B											
LCS (BC50382-BS1) LCS							Prepared & Analyzed: 03/06/2025				
n-Propylbenzene	8.95		ug/L	10.0		89.5	78-133				
o-Xylene	9.39		"	10.0		93.9	78-130				
p- & m- Xylenes	18.6		"	20.0		92.8	77-133				
p-Isopropyltoluene	9.68		"	10.0		96.8	81-136				
sec-Butylbenzene	9.20		"	10.0		92.0	79-137				
Styrene	10.0		"	10.0		100	67-132				
tert-Butyl alcohol (TBA)	65.2		"	50.0		130	25-162				
tert-Butylbenzene	9.09		"	10.0		90.9	77-138				
Tetrachloroethylene	6.45		"	10.0		64.5	82-131	Low Bias			
Toluene	9.17		"	10.0		91.7	80-127				
trans-1,2-Dichloroethylene	9.55		"	10.0		95.5	80-132				
trans-1,3-Dichloropropylene	9.99		"	10.0		99.9	78-131				
Trichloroethylene	8.99		"	10.0		89.9	82-128				
Trichlorofluoromethane	9.51		"	10.0		95.1	67-139				
Vinyl Chloride	9.54		"	10.0		95.4	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.87*		*"*	*10.0*		*98.7*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.56*		*"*	*10.0*		*95.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.61*		*"*	*10.0*		*96.1*	*79-122*				
LCS Dup (BC50382-BSD1) LCS Dup							Prepared & Analyzed: 03/06/2025				
1,1,1,2-Tetrachloroethane	9.93		ug/L	10.0		99.3	82-126		2.96	30	
1,1,1-Trichloroethane	9.54		"	10.0		95.4	78-136		2.33	30	
1,1,2,2-Tetrachloroethane	10.6		"	10.0		106	76-129		6.80	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8		"	10.0		108	54-165		3.69	30	
1,1,2-Trichloroethane	10.1		"	10.0		101	82-123		5.26	30	
1,1-Dichloroethane	9.54		"	10.0		95.4	82-129		2.23	30	
1,1-Dichloroethylene	9.94		"	10.0		99.4	68-138		1.83	30	
1,2,3-Trichlorobenzene	12.8		"	10.0		128	76-136		14.5	30	
1,2,3-Trichloropropane	10.0		"	10.0		100	77-128		6.47	30	
1,2,4-Trichlorobenzene	11.4		"	10.0		114	76-137		9.29	30	
1,2,4-Trimethylbenzene	9.64		"	10.0		96.4	82-132		2.31	30	
1,2-Dibromo-3-chloropropane	9.69		"	10.0		96.9	45-147		8.84	30	
1,2-Dibromoethane	10.4		"	10.0		104	83-124		4.92	30	
1,2-Dichlorobenzene	9.56		"	10.0		95.6	79-123		3.62	30	
1,2-Dichloroethane	10.4		"	10.0		104	73-132		6.66	30	
1,2-Dichloropropane	9.40		"	10.0		94.0	78-126		1.61	30	
1,3,5-Trimethylbenzene	9.31		"	10.0		93.1	80-131		0.539	30	
1,3-Dichlorobenzene	9.36		"	10.0		93.6	86-122		2.16	30	
1,4-Dichlorobenzene	9.44		"	10.0		94.4	85-124		2.36	30	
1,4-Dioxane	190		"	210		90.6	10-349		3.98	30	
2-Butanone	10.8		"	10.0		108	49-152		12.1	30	
2-Hexanone	11.4		"	10.0		114	51-146		8.64	30	
4-Methyl-2-pentanone	11.8		"	10.0		118	57-145		8.90	30	
Acetone	8.51		"	10.0		85.1	14-150		9.22	30	
Acrolein	16.6		"	10.0		166	10-153	High Bias	3.75	30	
Acrylonitrile	12.4		"	10.0		124	51-150		8.11	30	
Benzene	10.2		"	10.0		102	85-126		2.69	30	
Bromochloromethane	10.6		"	10.0		106	77-128		5.81	30	
Bromodichloromethane	9.77		"	10.0		97.7	79-128		2.91	30	
Bromoform	11.2		"	10.0		112	78-133		5.61	30	
Bromomethane	11.5		"	10.0		115	43-168		1.22	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50382 - EPA 5030B											
LCS Dup (BC50382-BSD1) LCS Dup							Prepared & Analyzed: 03/06/2025				
Carbon disulfide	10.5		ug/L	10.0		105	68-146		2.79	30	
Carbon tetrachloride	9.88		"	10.0		98.8	77-141		1.53	30	
Chlorobenzene	9.45		"	10.0		94.5	88-120		1.06	30	
Chloroethane	10.0		"	10.0		100	65-136		2.33	30	
Chloroform	9.84		"	10.0		98.4	82-128		2.26	30	
Chloromethane	9.33		"	10.0		93.3	43-155		0.107	30	
cis-1,2-Dichloroethylene	9.89		"	10.0		98.9	83-129		2.25	30	
cis-1,3-Dichloropropylene	9.74		"	10.0		97.4	80-131		2.81	30	
Cyclohexane	10.4		"	10.0		104	63-149		3.22	30	
Dibromochloromethane	10.4		"	10.0		104	80-130		3.12	30	
Dibromomethane	9.77		"	10.0		97.7	72-134		2.91	30	
Dichlorodifluoromethane	8.70		"	10.0		87.0	44-144		4.11	30	
Ethyl Benzene	9.53		"	10.0		95.3	80-131		0.737	30	
Hexachlorobutadiene	9.79		"	10.0		97.9	67-146		3.53	30	
Isopropylbenzene	8.92		"	10.0		89.2	76-140		0.562	30	
Methyl acetate	15.4		"	10.0		154	51-139	High Bias	8.10	30	
Methyl tert-butyl ether (MTBE)	11.2		"	10.0		112	76-135		7.91	30	
Methylcyclohexane	9.55		"	10.0		95.5	72-143		1.05	30	
Methylene chloride	9.47		"	10.0		94.7	55-137		2.68	30	
n-Butylbenzene	9.79		"	10.0		97.9	79-132		0.718	30	
n-Propylbenzene	9.01		"	10.0		90.1	78-133		0.668	30	
o-Xylene	9.49		"	10.0		94.9	78-130		1.06	30	
p- & m- Xylenes	18.6		"	20.0		93.2	77-133		0.484	30	
p-Isopropyltoluene	9.72		"	10.0		97.2	81-136		0.412	30	
sec-Butylbenzene	9.25		"	10.0		92.5	79-137		0.542	30	
Styrene	10.2		"	10.0		102	67-132		1.68	30	
tert-Butyl alcohol (TBA)	76.5		"	50.0		153	25-162		16.0	30	
tert-Butylbenzene	9.09		"	10.0		90.9	77-138		0.00	30	
Tetrachloroethylene	6.20		"	10.0		62.0	82-131	Low Bias	3.95	30	
Toluene	9.19		"	10.0		91.9	80-127		0.218	30	
trans-1,2-Dichloroethylene	9.74		"	10.0		97.4	80-132		1.97	30	
trans-1,3-Dichloropropylene	10.3		"	10.0		103	78-131		3.44	30	
Trichloroethylene	8.97		"	10.0		89.7	82-128		0.223	30	
Trichlorofluoromethane	9.83		"	10.0		98.3	67-139		3.31	30	
Vinyl Chloride	9.64		"	10.0		96.4	58-145		1.04	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.42*		*"*	*10.0*		*94.2*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.59*		*"*	*10.0*		*95.9*	*79-122*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50487 - EPA 3510C											
Blank (BC50487-BLK1) Blank									Prepared & Analyzed: 03/07/2025		
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Diphenylamine	ND	5.00	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Isophorone	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Phenol	ND	5.00	"								
Pyridine	ND	5.00	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50487 - EPA 3510C											
Blank (BC50487-BLK1) Blank							Prepared & Analyzed: 03/07/2025				
Surrogate: SURR: 2-Fluorophenol	*15.6*		*ug/L*	*50.0*		*31.2*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*9.48*		*"*	*50.0*		*19.0*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*13.5*		*"*	*25.0*		*53.8*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*13.2*		*"*	*25.0*		*52.8*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*26.3*		*"*	*50.0*		*52.5*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*19.1*		*"*	*25.0*		*76.5*	*30.7-106*				
LCS (BC50487-BS1) LCS							Prepared & Analyzed: 03/07/2025				
1,1-Biphenyl	14.2	5.00	ug/L	25.0		56.7	33-95				
1,2,4,5-Tetrachlorobenzene	12.0	5.00	"	25.0		47.9	26-120				
1,2-Diphenylhydrazine (as Azobenzene)	15.8	5.00	"	25.0		63.1	16-141				
2,3,4,6-Tetrachlorophenol	16.2	5.00	"	25.0		64.6	30-130				
2,4,5-Trichlorophenol	15.3	5.00	"	25.0		61.1	32-114				
2,4,6-Trichlorophenol	15.2	5.00	"	25.0		60.6	35-118				
2,4-Dichlorophenol	13.3	5.00	"	25.0		53.0	25-116				
2,4-Dimethylphenol	13.2	5.00	"	25.0		52.7	15-116				
2,4-Dinitrophenol	8.00	5.00	"	25.0		32.0	10-170				
2,4-Dinitrotoluene	17.2	5.00	"	25.0		68.9	41-128				
2,6-Dinitrotoluene	16.6	5.00	"	25.0		66.5	45-116				
2-Chloronaphthalene	13.8	5.00	"	25.0		55.2	33-112				
2-Chlorophenol	11.9	5.00	"	25.0		47.8	15-120				
2-Methylnaphthalene	12.6	5.00	"	25.0		50.6	24-118				
2-Methylphenol	10.6	5.00	"	25.0		42.3	10-110				
2-Nitroaniline	15.8	5.00	"	25.0		63.2	34-129				
2-Nitrophenol	11.8	5.00	"	25.0		47.3	28-118				
3- & 4-Methylphenols	9.15	5.00	"	25.0		36.6	10-107				
3,3-Dichlorobenzidine	6.53	5.00	"	25.0		26.1	15-187				
3-Nitroaniline	10.7	5.00	"	25.0		42.9	24-134				
4,6-Dinitro-2-methylphenol	15.6	5.00	"	25.0		62.4	10-153				
4-Bromophenyl phenyl ether	14.7	5.00	"	25.0		58.7	34-120				
4-Chloro-3-methylphenol	14.4	5.00	"	25.0		57.7	20-120				
4-Chloroaniline	7.97	5.00	"	25.0		31.9	10-147				
4-Chlorophenyl phenyl ether	16.1	5.00	"	25.0		64.3	27-121				
4-Nitroaniline	12.7	5.00	"	25.0		50.8	13-134				
4-Nitrophenol	8.83	5.00	"	25.0		35.3	10-131				
Acetophenone	12.4	5.00	"	25.0		49.4	25-110				
Aniline	4.13	5.00	"	25.0		16.5	10-117				
Benzaldehyde	12.4	5.00	"	25.0		49.6	29-117				
Benzoic acid	4.64	5.00	"	25.0		18.6	30-130	Low Bias			
Benzyl alcohol	10.2	5.00	"	25.0		40.7	10-117				
Benzyl butyl phthalate	19.5	5.00	"	25.0		78.0	29-133				
Bis(2-chloroethoxy)methane	13.8	5.00	"	25.0		55.2	10-154				
Bis(2-chloroethyl)ether	11.7	5.00	"	25.0		46.6	17-125				
Bis(2-chloroisopropyl)ether	10.6	5.00	"	25.0		42.6	10-139				
Caprolactam	3.17	5.00	"	25.0		12.7	10-137				
Carbazole	15.8	5.00	"	25.0		63.4	42-126				
Dibenzofuran	15.2	5.00	"	25.0		60.8	36-113				
Diethyl phthalate	17.3	5.00	"	25.0		69.1	38-115				
Dimethyl phthalate	17.4	5.00	"	25.0		69.4	38-129				
Di-n-butyl phthalate	20.6	5.00	"	25.0		82.6	31-120				
Di-n-octyl phthalate	19.3	5.00	"	25.0		77.1	21-149				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50487 - EPA 3510C											
LCS (BC50487-BS1) LCS							Prepared & Analyzed: 03/07/2025				
Diphenylamine	16.7	5.00	ug/L	25.0		66.8	40-140				
Hexachlorocyclopentadiene	12.4	10.0	"	25.0		49.4	10-130				
Isophorone	14.4	5.00	"	25.0		57.5	25-127				
N-nitroso-di-n-propylamine	13.0	5.00	"	25.0		52.2	26-122				
N-Nitrosodiphenylamine	16.1	5.00	"	25.0		64.4	23-149				
Phenol	4.54	5.00	"	25.0		18.2	10-110				
Pyridine	ND	5.00	"	35.0			10-90	Low Bias			
Surrogate: SURR: 2-Fluorophenol	*15.9*		*"*	*50.0*		*31.8*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*9.14*		*"*	*50.0*		*18.3*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*13.5*		*"*	*25.0*		*54.0*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*14.2*		*"*	*25.0*		*57.0*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*33.8*		*"*	*50.0*		*67.6*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*18.4*		*"*	*25.0*		*73.4*	*30.7-106*				
Batch BC50488 - EPA 3510C											
Blank (BC50488-BLK2) Blank							Prepared & Analyzed: 03/07/2025				
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50488 - EPA 3510C											
LCS (BC50488-BS2) LCS							Prepared & Analyzed: 03/07/2025				
Acenaphthene	0.670	0.0500	ug/L	1.25		53.6	25-116				
Acenaphthylene	0.790	0.0500	"	1.25		63.2	26-116				
Anthracene	0.860	0.0500	"	1.25		68.8	25-123				
Benzo(a)anthracene	0.930	0.0500	"	1.25		74.4	33-125				
Benzo(a)pyrene	0.860	0.0500	"	1.25		68.8	32-132				
Benzo(b)fluoranthene	0.920	0.0500	"	1.25		73.6	22-137				
Benzo(g,h,i)perylene	1.28	0.0500	"	1.25		102	10-138				
Benzo(k)fluoranthene	0.940	0.0500	"	1.25		75.2	20-137				
Bis(2-ethylhexyl)phthalate	1.36	0.500	"	1.25		109	10-189				
Chrysene	0.970	0.0500	"	1.25		77.6	32-124				
Dibenzo(a,h)anthracene	1.16	0.0500	"	1.25		92.8	16-133				
Fluoranthene	0.870	0.0500	"	1.25		69.6	32-121				
Fluorene	0.840	0.0500	"	1.25		67.2	28-118				
Hexachlorobenzene	0.910	0.0200	"	1.25		72.8	23-124				
Hexachlorobutadiene	0.620	0.500	"	1.25		49.6	15-123				
Hexachloroethane	3.16	0.500	"	1.25		253	18-115	High Bias			
Indeno(1,2,3-cd)pyrene	1.14	0.0500	"	1.25		91.2	15-135				
Naphthalene	0.620	0.0500	"	1.25		49.6	18-120				
Nitrobenzene	0.380	0.250	"	1.25		30.4	21-121				
N-Nitrosodimethylamine	ND	0.500	"	1.25			10-124	Low Bias			
Pentachlorophenol	0.270	0.250	"	1.25		21.6	10-156				
Phenanthrene	0.810	0.0500	"	1.25		64.8	24-127				
Pyrene	0.880	0.0500	"	1.25		70.4	31-132				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50176 - EPA 3535A											
Blank (BC50176-BLK1) Blank								Prepared: 03/04/2025 Analyzed: 03/05/2025			
1,4-Dioxane	ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8	*4.16*		*"*	*4.00*		*104*	*36.6-118*				
LCS (BC50176-BS1) LCS								Prepared: 03/04/2025 Analyzed: 03/05/2025			
1,4-Dioxane	4.02	0.300	ug/L	4.00		100	50-130				
Surrogate: 1,4-Dioxane-d8	*3.84*		*"*	*4.00*		*96.0*	*36.6-118*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50617 - EPA 1633 Prep											
Blank (BC50617-BLK1) Blank									Prepared: 03/09/2025 Analyzed: 03/10/2025		
Perfluorobutanesulfonic acid (PFBS)	ND	1.77	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.83	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	1.86	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	4.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.91	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.93	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	7.60	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	7.68	"								
Perfluoro-n-butanoic acid (PFBA)	ND	8.00	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.56	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	4.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	4.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	4.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.88	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	ND	7.50	"								
HFPO-DA (Gen-X)	ND	8.00	"								
11CL-PF3OUdS	ND	7.56	"								
9CL-PF3ONS	ND	7.48	"								
ADONA	ND	7.56	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	1.94	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.92	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	5.00	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	25.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	25.0	"								
N-MeFOSE	ND	20.0	"								
N-MeFOSA	ND	2.00	"								
N-EtFOSE	ND	20.0	"								
N-EtFOSA	ND	2.00	"								
Surrogate: M3PFBS	*28.9*		*"*	*23.3*		*124*	*25-150*				
Surrogate: M5PFHxA	*32.6*		*"*	*25.0*		*130*	*25-150*				
Surrogate: M4PFHpA	*36.9*		*"*	*25.0*		*148*	*25-150*				
Surrogate: M3PFHxS	*28.9*		*"*	*23.7*		*122*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*34.2*		*"*	*25.0*		*137*	*25-150*				
Surrogate: M6PFDA	*15.5*		*"*	*12.5*		*124*	*25-150*				
Surrogate: M7PFUdA	*16.0*		*"*	*12.5*		*128*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*16.0*		*"*	*12.5*		*128*	*25-150*				
Surrogate: M2PFTeDA	*12.0*		*"*	*12.5*		*96.4*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50617 - EPA 1633 Prep											
Blank (BC50617-BLK1) Blank								Prepared: 03/09/2025 Analyzed: 03/10/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.26*		*ng/L*	*100*		*1.26*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*31.4*		*"*	*24.0*		*131*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*23.4*		*"*	*50.0*		*46.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*32.4*		*"*	*25.0*		*129*	*10-150*				
Surrogate: d3-N-MeFOSAA	*63.7*		*"*	*50.0*		*127*	*25-150*				
Surrogate: d5-N-EtFOSAA	*62.7*		*"*	*50.0*		*125*	*25-150*				
Surrogate: M2-6:2 FTS	*57.1*		*"*	*47.6*		*120*	*25-200*				
Surrogate: M2-8:2 FTS	*62.1*		*"*	*48.0*		*129*	*25-200*				
Surrogate: M9PFNA	*17.4*		*"*	*12.5*		*139*	*25-150*				
Surrogate: M2-4:2 FTS	*48.3*		*"*	*46.9*		*103*	*25-150*				
Surrogate: d-N-MeFOSA	*26.7*		*"*	*25.0*		*107*	*25-150*				
Surrogate: d-N-EtFOSA	*25.1*		*"*	*25.0*		*100*	*25-150*				
Surrogate: M3HFPO-DA	*95.2*		*"*	*100*		*95.2*	*25-150*				
Surrogate: d9-N-EtFOSE	*271*		*"*	*250*		*108*	*25-150*				
Surrogate: d7-N-MeFOSE	*262*		*"*	*250*		*105*	*25-150*				
LCS (BC50617-BS1) LCS								Prepared: 03/09/2025 Analyzed: 03/10/2025			
Perfluorobutanesulfonic acid (PFBS)	38.5	1.77	ng/L	35.4		109	50-150				
Perfluorohexanoic acid (PFHxA)	40.0	2.00	"	40.0		99.9	50-150				
Perfluoroheptanoic acid (PFHpA)	39.5	2.00	"	40.0		98.8	50-150				
Perfluorohexanesulfonic acid (PFHxS)	33.1	1.83	"	36.6		90.4	50-150				
Perfluorooctanoic acid (PFOA)	43.1	2.00	"	40.0		108	50-150				
Perfluorooctanesulfonic acid (PFOS)	40.6	1.86	"	37.2		109	50-150				
Perfluorononanoic acid (PFNA)	36.9	2.00	"	40.0		92.3	50-150				
Perfluorodecanoic acid (PFDA)	38.2	2.00	"	40.0		95.4	50-150				
Perfluoroundecanoic acid (PFUnA)	41.8	2.00	"	40.0		104	50-150				
Perfluorododecanoic acid (PFDoA)	39.5	2.00	"	40.0		98.8	50-150				
Perfluorotridecanoic acid (PFTrDA)	51.0	2.00	"	40.0		127	50-150				
Perfluorotetradecanoic acid (PFTA)	38.9	2.00	"	40.0		97.3	50-150				
N-MeFOSAA	43.1	2.00	"	40.0		108	50-150				
N-EtFOSAA	46.5	2.00	"	40.0		116	50-150				
Perfluoropentanoic acid (PFPeA)	80.5	4.00	"	80.0		101	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	41.6	2.00	"	40.0		104	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	43.1	1.91	"	38.2		113	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	37.1	1.93	"	38.6		96.0	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	159	7.60	"	152		105	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	158	7.68	"	154		103	50-150				
Perfluoro-n-butanoic acid (PFBA)	102	8.00	"	160		63.9	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	77.9	3.56	"	71.2		109	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	77.7	4.00	"	80.0		97.1	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	7.96	4.00	"	80.0		9.95	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	146	4.00	"	80.0		182	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	39.0	1.88	"	37.6		104	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	171	7.50	"	150		114	50-150				
HFPO-DA (Gen-X)	89.2	8.00	"	80.0		111	50-150				
11CL-PF3OUdS	101	7.56	"	75.6		133	50-150				
9CL-PF3ONS	114	7.48	"	74.8		152	50-150	High Bias			
ADONA	112	7.56	"	75.6		149	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50617 - EPA 1633 Prep											
LCS (BC50617-BS1) LCS								Prepared: 03/09/2025 Analyzed: 03/10/2025			
Perfluorododecanesulfonic acid (PFDoS)	32.1	1.94	ng/L	38.8		82.8	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	46.3	1.92	"	38.4		121	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	79.5	5.00	"	160		49.7	50-150	Low Bias			
3-Perfluoropentyl propanoic acid (FPePA)	902	25.0	"	800		113	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	898	25.0	"	800		112	50-150				
N-MeFOSE	436	20.0	"	400		109	50-150				
N-MeFOSA	44.8	2.00	"	40.0		112	50-150				
N-EtFOSE	434	20.0	"	400		108	50-150				
N-EtFOSA	38.9	2.00	"	40.0		97.3	50-150				
Surrogate: M3PFBS	*28.9*		*"*	*23.3*		*124*	*25-150*				
Surrogate: M5PFHxA	*30.7*		*"*	*25.0*		*123*	*25-150*				
Surrogate: M4PFHpA	*32.2*		*"*	*25.0*		*129*	*25-150*				
Surrogate: M3PFHxS	*31.8*		*"*	*23.7*		*134*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*32.7*		*"*	*25.0*		*131*	*25-150*				
Surrogate: M6PFDA	*15.6*		*"*	*12.5*		*125*	*25-150*				
Surrogate: M7PFUdA	*16.3*		*"*	*12.5*		*131*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*13.3*		*"*	*12.5*		*107*	*25-150*				
Surrogate: M2PFTeDA	*10.5*		*"*	*12.5*		*84.4*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.02*		*"*	*100*		*1.02*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*27.8*		*"*	*24.0*		*116*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*21.7*		*"*	*50.0*		*43.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*31.2*		*"*	*25.0*		*125*	*10-150*				
Surrogate: d3-N-MeFOSAA	*67.1*		*"*	*50.0*		*134*	*25-150*				
Surrogate: d5-N-EtFOSAA	*70.9*		*"*	*50.0*		*142*	*25-150*				
Surrogate: M2-6:2 FTS	*68.7*		*"*	*47.6*		*145*	*25-200*				
Surrogate: M2-8:2 FTS	*80.0*		*"*	*48.0*		*167*	*25-200*				
Surrogate: M9PFNA	*16.5*		*"*	*12.5*		*132*	*25-150*				
Surrogate: M2-4:2 FTS	*57.4*		*"*	*46.9*		*122*	*25-150*				
Surrogate: d-N-MeFOSA	*25.9*		*"*	*25.0*		*104*	*25-150*				
Surrogate: d-N-EtFOSA	*22.7*		*"*	*25.0*		*90.9*	*25-150*				
Surrogate: M3HFPO-DA	*89.8*		*"*	*100*		*89.8*	*25-150*				
Surrogate: d9-N-EtFOSE	*239*		*"*	*250*		*95.6*	*25-150*				
Surrogate: d7-N-MeFOSE	*247*		*"*	*250*		*98.7*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50617 - EPA 1633 Prep											
LCS (BC50617-BS2) LCS								Prepared: 03/09/2025 Analyzed: 03/11/2025			
Perfluorobutanesulfonic acid (PFBS)	3.07	1.77	ng/L	3.54		86.8	50-150				
Perfluorohexanoic acid (PFHxA)	3.78	2.00	"	4.00		94.5	50-150				
Perfluoroheptanoic acid (PFHpA)	3.47	2.00	"	4.00		86.7	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.71	1.83	"	3.66		101	50-150				
Perfluorooctanoic acid (PFOA)	3.87	2.00	"	4.00		96.6	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.99	1.86	"	3.72		107	50-150				
Perfluorononanoic acid (PFNA)	3.72	2.00	"	4.00		93.0	50-150				
Perfluorodecanoic acid (PFDA)	3.92	2.00	"	4.00		97.9	50-150				
Perfluoroundecanoic acid (PFUnA)	3.86	2.00	"	4.00		96.5	50-150				
Perfluorododecanoic acid (PFDoA)	3.76	2.00	"	4.00		94.0	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.50	2.00	"	4.00		113	50-150				
Perfluorotetradecanoic acid (PFTA)	3.44	2.00	"	4.00		86.0	50-150				
N-MeFOSAA	5.44	2.00	"	4.00		136	50-150				
N-EtFOSAA	4.29	2.00	"	4.00		107	50-150				
Perfluoropentanoic acid (PFPeA)	7.95	4.00	"	8.00		99.4	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	3.56	2.00	"	4.00		88.9	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.68	1.91	"	3.82		96.3	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	2.84	1.93	"	3.86		73.5	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	16.4	7.60	"	15.2		108	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	14.7	7.68	"	15.4		95.7	50-150				
Perfluoro-n-butanoic acid (PFBA)	13.8	8.00	"	16.0		86.0	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.85	3.56	"	7.12		110	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	6.17	4.00	"	8.00		77.1	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	0.992	4.00	"	8.00		12.4	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	14.5	4.00	"	8.00		181	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	4.08	1.88	"	3.76		108	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	15.5	7.50	"	15.0		103	50-150				
HFPO-DA (Gen-X)	9.35	8.00	"	8.00		117	50-150				
11CL-PF3OUdS	8.96	7.56	"	7.56		118	50-150				
9CL-PF3ONS	9.49	7.48	"	7.48		127	50-150				
ADONA	10.2	7.56	"	7.56		134	50-150				
Perfluorododecanesulfonic acid (PFDoS)	2.59	1.94	"	3.88		66.8	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	4.07	1.92	"	3.84		106	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	8.67	5.00	"	16.0		54.2	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	82.8	25.0	"	80.0		104	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	84.1	25.0	"	80.0		105	50-150				
N-MeFOSE	43.0	20.0	"	40.0		107	50-150				
N-MeFOSA	5.42	2.00	"	4.00		136	50-150				
N-EtFOSE	38.9	20.0	"	40.0		97.2	50-150				
N-EtFOSA	3.88	2.00	"	4.00		96.9	50-150				
Surrogate: M3PFBS	*30.4*		*"*	*23.3*		*130*	*25-150*				
Surrogate: M5PFHxA	*34.6*		*"*	*25.0*		*138*	*25-150*				
Surrogate: M4PFHpA	*40.0*		*"*	*25.0*		*160*	*25-150*				
Surrogate: M3PFHxS	*31.3*		*"*	*23.7*		*132*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*34.8*		*"*	*25.0*		*139*	*25-150*				
Surrogate: M6PFDA	*18.7*		*"*	*12.5*		*150*	*25-150*				
Surrogate: M7PFUdA	*18.9*		*"*	*12.5*		*151*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*16.8*		*"*	*12.5*		*134*	*25-150*				
Surrogate: M2PFTeDA	*11.8*		*"*	*12.5*		*94.7*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50617 - EPA 1633 Prep											
LCS (BC50617-BS2) LCS								Prepared: 03/09/2025 Analyzed: 03/11/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.43*		*ng/L*	*100*		*1.43*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*39.2*		*"*	*24.0*		*164*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*26.5*		*"*	*50.0*		*53.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*41.0*		*"*	*25.0*		*164*	*10-150*				
Surrogate: d3-N-MeFOSAA	*83.6*		*"*	*50.0*		*167*	*25-150*				
Surrogate: d5-N-EtFOSAA	*95.3*		*"*	*50.0*		*191*	*25-150*				
Surrogate: M2-6:2 FTS	*57.0*		*"*	*47.6*		*120*	*25-200*				
Surrogate: M2-8:2 FTS	*82.5*		*"*	*48.0*		*172*	*25-200*				
Surrogate: M9PFNA	*18.4*		*"*	*12.5*		*147*	*25-150*				
Surrogate: M2-4:2 FTS	*53.1*		*"*	*46.9*		*113*	*25-150*				
Surrogate: d-N-MeFOSA	*30.1*		*"*	*25.0*		*120*	*25-150*				
Surrogate: d-N-EtFOSA	*29.9*		*"*	*25.0*		*120*	*25-150*				
Surrogate: M3HFPO-DA	*108*		*"*	*100*		*108*	*25-150*				
Surrogate: d9-N-EtFOSE	*287*		*"*	*250*		*115*	*25-150*				
Surrogate: d7-N-MeFOSE	*294*		*"*	*250*		*118*	*25-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50436 - EPA SW846-3510C Low Level											
Blank (BC50436-BLK1) Blank							Prepared: 03/06/2025 Analyzed: 03/07/2025				
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Chlordane, total	ND	0.200	"								
Surrogate: Decachlorobiphenyl	*0.101*		*"*	*0.200*		*50.6*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0939*		*"*	*0.200*		*46.9*	*30-150*				
LCS (BC50436-BS1) LCS							Prepared: 03/06/2025 Analyzed: 03/07/2025				
4,4'-DDD	0.0888	0.00400	ug/L	0.100		88.8	40-140			20	
4,4'-DDE	0.0817	0.00400	"	0.100		81.7	40-140			20	
4,4'-DDT	0.0956	0.00400	"	0.100		95.6	40-140			20	
Aldrin	0.0659	0.00400	"	0.100		65.9	40-140			20	
alpha-BHC	0.0714	0.00400	"	0.100		71.4	40-140			20	
alpha-Chlordane	0.0745	0.00400	"	0.100		74.5	40-140			20	
beta-BHC	0.0812	0.00400	"	0.100		81.2	40-140			20	
delta-BHC	0.0677	0.00400	"	0.100		67.7	40-140			20	
Dieldrin	0.0880	0.00200	"	0.100		88.0	40-140			20	
Endosulfan I	0.0844	0.00400	"	0.100		84.4	40-140			20	
Endosulfan II	0.0970	0.00400	"	0.100		97.0	40-140			20	
Endosulfan sulfate	0.0955	0.00400	"	0.100		95.5	40-140			20	
Endrin	0.0957	0.00400	"	0.100		95.7	40-140			20	
Endrin aldehyde	0.123	0.0100	"	0.100		123	40-140			20	
Endrin ketone	0.104	0.0100	"	0.100		104	40-140			20	
gamma-BHC (Lindane)	0.0776	0.00400	"	0.100		77.6	40-140			20	
gamma-Chlordane	0.0793	0.0100	"	0.100		79.3	40-140			20	
Heptachlor	0.0788	0.00400	"	0.100		78.8	40-140			20	
Heptachlor epoxide	0.0838	0.00400	"	0.100		83.8	40-140			20	
Methoxychlor	0.102	0.00400	"	0.100		102	40-140			20	
Surrogate: Decachlorobiphenyl	*0.134*		*"*	*0.200*		*66.8*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.123*		*"*	*0.200*		*61.6*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50548 - EPA SW846-3510C Low Level											
Blank (BC50548-BLK1) Blank							Prepared & Analyzed: 03/07/2025				
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.0890*		*"*	*0.200*		*44.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.122*		*"*	*0.200*		*61.0*	*30-120*				
LCS (BC50548-BS2) LCS							Prepared & Analyzed: 03/07/2025				
Aroclor 1016	0.594	0.0500	ug/L	1.00		59.4	40-120				
Aroclor 1260	0.476	0.0500	"	1.00		47.6	40-120				
Surrogate: Tetrachloro-m-xylene	*0.0700*		*"*	*0.200*		*35.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0790*		*"*	*0.200*		*39.5*	*30-120*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50076 - EPA 8151A											
Blank (BC50076-BLK1) Blank							Prepared & Analyzed: 03/04/2025				
2,4,5-T	ND	5.00	ug/L								
2,4,5-TP (Silvex)	ND	5.00	"								
2,4-D	ND	5.00	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*134*		*"*	*125*		*108*	*30-150*				
LCS (BC50076-BS1) LCS							Prepared & Analyzed: 03/04/2025				
2,4,5-T	18.2	5.00	ug/L	20.0		91.2	10-140				
2,4,5-TP (Silvex)	20.2	5.00	"	20.0		101	10-139				
2,4-D	18.5	5.00	"	20.0		92.5	10-140				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*146*		*"*	*125*		*117*	*30-150*				
LCS Dup (BC50076-BSD1) LCS Dup							Prepared & Analyzed: 03/04/2025				
2,4,5-T	17.0	5.00	ug/L	20.0		85.0	10-140		7.09	30	
2,4,5-TP (Silvex)	19.0	5.00	"	20.0		95.0	10-139		6.37	30	
2,4-D	17.8	5.00	"	20.0		88.8	10-140		4.14	30	
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*137*		*"*	*125*		*110*	*30-150*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50380 - EPA 3015A											
Blank (BC50380-BLK1) Blank								Prepared & Analyzed: 03/06/2025			
Aluminum - Dissolved	ND	0.0556	mg/L								
Barium - Dissolved	ND	0.0278	"								
Calcium - Dissolved	ND	0.0556	"								
Chromium - Dissolved	ND	0.00556	"								
Cobalt - Dissolved	ND	0.00444	"								
Copper - Dissolved	ND	0.0222	"								
Iron - Dissolved	ND	0.278	"								
Lead - Dissolved	ND	0.00556	"								
Magnesium - Dissolved	ND	0.0556	"								
Manganese - Dissolved	ND	0.00556	"								
Nickel - Dissolved	ND	0.0111	"								
Potassium - Dissolved	ND	0.0556	"								
Silver - Dissolved	ND	0.00556	"								
Sodium - Dissolved	ND	0.556	"								
Vanadium - Dissolved	ND	0.0111	"								
Zinc - Dissolved	ND	0.0278	"								
LCS (BC50380-BS1) LCS								Prepared & Analyzed: 03/06/2025			
Aluminum - Dissolved	1.85		ug/mL	2.00		92.7	80-120				
Barium - Dissolved	2.08		"	2.00		104	80-120				
Calcium - Dissolved	1.21		"	1.00		121	80-120	High Bias			
Chromium - Dissolved	0.208		"	0.200		104	80-120				
Cobalt - Dissolved	0.524		"	0.500		105	80-120				
Copper - Dissolved	0.258		"	0.250		103	80-120				
Iron - Dissolved	0.984		"	1.00		98.4	80-120				
Lead - Dissolved	0.512		"	0.500		102	80-120				
Magnesium - Dissolved	0.999		"	1.00		99.9	80-120				
Manganese - Dissolved	0.516		"	0.500		103	80-120				
Nickel - Dissolved	0.526		"	0.500		105	80-120				
Potassium - Dissolved	0.529		"	1.00		52.9	80-120	Low Bias			
Silver - Dissolved	0.0476		"	0.0500		95.2	80-120				
Sodium - Dissolved	1.02		"	1.00		102	80-120				
Vanadium - Dissolved	0.501		"	0.500		100	80-120				
Zinc - Dissolved	0.528		"	0.500		106	80-120				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50383 - EPA 3015A											
Blank (BC50383-BLK1) Blank								Prepared & Analyzed: 03/06/2025			
Aluminum	ND	0.0556	mg/L								
Barium	ND	0.0278	"								
Calcium	ND	0.0556	"								
Chromium	ND	0.00556	"								
Cobalt	ND	0.00444	"								
Copper	ND	0.0222	"								
Iron	ND	0.278	"								
Lead	ND	0.00556	"								
Magnesium	ND	0.0556	"								
Manganese	ND	0.00556	"								
Nickel	ND	0.0111	"								
Potassium	ND	0.0556	"								
Silver	ND	0.00556	"								
Sodium	ND	0.556	"								
Vanadium	ND	0.0111	"								
Zinc	ND	0.0278	"								
LCS (BC50383-BS1) LCS								Prepared & Analyzed: 03/06/2025			
Aluminum	1.95		ug/mL	2.00		97.7	80-120				
Barium	2.12		"	2.00		106	80-120				
Calcium	2.47		"	1.00		247	80-120	High Bias			
Chromium	0.213		"	0.200		107	80-120				
Cobalt	0.538		"	0.500		108	80-120				
Copper	0.261		"	0.250		104	80-120				
Iron	1.02		"	1.00		102	80-120				
Lead	0.528		"	0.500		106	80-120				
Magnesium	1.05		"	1.00		105	80-120				
Manganese	0.527		"	0.500		105	80-120				
Nickel	0.536		"	0.500		107	80-120				
Potassium	0.913		"	1.00		91.3	80-120				
Silver	0.0495		"	0.0500		99.0	80-120				
Sodium	1.15		"	1.00		115	80-120				
Vanadium	0.510		"	0.500		102	80-120				
Zinc	0.599		"	0.500		120	80-120				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50383 - EPA 3015A											
Duplicate (BC50383-DUP1) Duplicate	*Source sample: 25C0068-19 (TMW15_030325)							Prepared & Analyzed: 03/06/2025			
Aluminum	ND	0.0556	mg/L		ND					20	
Barium	0.105	0.0278	"		0.105				0.423	20	
Calcium	23.9	0.0556	"		23.2				2.95	20	
Chromium	ND	0.00556	"		ND					20	
Cobalt	0.0162	0.00444	"		0.0170				4.68	20	
Copper	ND	0.0222	"		ND					20	
Iron	0.511	0.278	"		0.535				4.57	20	
Lead	ND	0.00556	"		ND					20	
Magnesium	9.16	0.0556	"		9.25				0.984	20	
Manganese	1.37	0.00556	"		1.37				0.389	20	
Nickel	0.0372	0.0111	"		0.0369				0.900	20	
Potassium	10.1	0.0556	"		9.96				1.30	20	
Silver	ND	0.00556	"		ND					20	
Sodium	536	0.556	"		543				1.25	20	
Vanadium	ND	0.0111	"		ND					20	
Zinc	0.0532	0.0278	"		ND					20	
Matrix Spike (BC50383-MS1) Matrix Spike	*Source sample: 25C0068-19 (TMW15_030325)							Prepared & Analyzed: 03/06/2025			
Aluminum	2.54	0.0556	mg/L	2.22	ND	114	75-125				
Barium	2.39	0.0278	"	2.22	0.105	103	75-125				
Calcium	25.7	0.0556	"	1.11	23.2	230	75-125	High Bias			
Chromium	0.230	0.00556	"	0.222	ND	103	75-125				
Cobalt	0.595	0.00444	"	0.556	0.0170	104	75-125				
Copper	0.321	0.0222	"	0.278	ND	116	75-125				
Iron	1.66	0.278	"	1.11	0.535	101	75-125				
Lead	0.560	0.00556	"	0.556	ND	101	75-125				
Magnesium	10.1	0.0556	"	1.11	9.25	80.8	75-125				
Manganese	1.93	0.00556	"	0.556	1.37	99.4	75-125				
Nickel	0.617	0.0111	"	0.556	0.0369	104	75-125				
Potassium	11.1	0.0556	"	1.11	9.96	100	75-125				
Silver	0.0573	0.00556	"	0.0556	ND	103	75-125				
Sodium	532	0.556	"	1.11	543	NR	75-125	Low Bias			
Vanadium	0.577	0.0111	"	0.556	ND	104	75-125				
Zinc	0.690	0.0278	"	0.556	ND	124	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50383 - EPA 3015A											
Post Spike (BC50383-PS1) Post Spike	*Source sample: 25C0068-19 (TMW15_030325)							Prepared & Analyzed: 03/06/2025			
Aluminum	2.24		ug/mL	2.00	0.0194	111	75-125				
Barium	2.12		"	2.00	0.0947	101	75-125				
Calcium	21.6		"	1.00	20.8	72.4	75-125	Low Bias			
Chromium	0.204		"	0.200	0.00220	101	75-125				
Cobalt	0.528		"	0.500	0.0153	102	75-125				
Copper	0.286		"	0.250	0.00400	113	75-125				
Iron	1.51		"	1.00	0.481	103	75-125				
Lead	0.499		"	0.500	-0.00280	99.8	75-125				
Magnesium	9.14		"	1.00	8.33	81.8	75-125				
Manganese	1.73		"	0.500	1.24	98.8	75-125				
Nickel	0.547		"	0.500	0.0332	103	75-125				
Potassium	10.0		"	1.00	8.96	103	75-125				
Silver	0.0537		"	0.0500	-0.000200	107	75-125				
Sodium	479		"	1.00	489	NR	75-125	Low Bias			
Vanadium	0.512		"	0.500	0.00	102	75-125				
Zinc	0.539		"	0.500	0.0136	105	75-125				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50379 - EPA 3015A											
Blank (BC50379-BLK1) Blank								Prepared & Analyzed: 03/06/2025			
Antimony - Dissolved	ND	1.11	ug/L								
Arsenic - Dissolved	ND	1.11	"								
Beryllium - Dissolved	ND	0.333	"								
Cadmium - Dissolved	ND	0.556	"								
Selenium - Dissolved	1.22	1.11	"								
Thallium - Dissolved	ND	1.11	"								
LCS (BC50379-BS1) LCS								Prepared & Analyzed: 03/06/2025			
Antimony - Dissolved	44.6		ug/L	50.0		89.1	80-120				
Arsenic - Dissolved	46.2		"	50.0		92.4	80-120				
Beryllium - Dissolved	53.2		"	50.0		106	80-120				
Cadmium - Dissolved	41.3		"	50.0		82.6	80-120				
Selenium - Dissolved	48.8		"	50.0		97.5	80-120				
Thallium - Dissolved	40.2		"	50.0		80.5	80-120				
Batch BC50387 - EPA 3015A											
Blank (BC50387-BLK1) Blank								Prepared & Analyzed: 03/06/2025			
Antimony	ND	1.11	ug/L								
Arsenic	ND	1.11	"								
Beryllium	ND	0.333	"								
Cadmium	ND	0.556	"								
Selenium	ND	1.11	"								
Thallium	ND	1.11	"								
LCS (BC50387-BS1) LCS								Prepared & Analyzed: 03/06/2025			
Antimony	72.3		ug/L	50.0		145	80-120	High Bias			
Arsenic	55.7		"	50.0		111	80-120				
Beryllium	48.4		"	50.0		96.9	80-120				
Cadmium	67.7		"	50.0		135	80-120	High Bias			
Selenium	61.2		"	50.0		122	80-120	High Bias			
Thallium	55.3		"	50.0		111	80-120				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50258 - EPA SW846-7470A											
Blank (BC50258-BLK1) Blank								Prepared & Analyzed: 03/05/2025			
Mercury - Dissolved	ND	0.0002	mg/L								
LCS (BC50258-BS1) LCS								Prepared & Analyzed: 03/05/2025			
Mercury - Dissolved	0.0020	0.0002	mg/L	0.00200		102	80-120				
Batch BC50367 - EPA SW846-7470A											
Blank (BC50367-BLK1) Blank								Prepared & Analyzed: 03/06/2025			
Mercury	ND	0.0002	mg/L								
LCS (BC50367-BS1) LCS								Prepared & Analyzed: 03/06/2025			
Mercury	0.0019353	0.0002	mg/L	0.00200		96.8	80-120				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50139 - Analysis Preparation											
Blank (BC50139-BLK1) Blank								Prepared & Analyzed: 03/03/2025			
Chromium, Hexavalent	ND	0.0100	mg/L								
LCS (BC50139-BS1) LCS								Prepared & Analyzed: 03/03/2025			
Chromium, Hexavalent	0.450	0.0100	mg/L	0.500		90.0	85-115				
Duplicate (BC50139-DUP1) Duplicate *Source sample: 25C0068-19 (TMW15_030325)								Prepared & Analyzed: 03/03/2025			
Chromium, Hexavalent	ND	0.0100	mg/L		ND					20	
Matrix Spike (BC50139-MS1) Matrix Spike *Source sample: 25C0068-19 (TMW15_030325)								Prepared & Analyzed: 03/03/2025			
Chromium, Hexavalent	0.468	0.0100	mg/L	0.500	ND	93.6	85-115				
Matrix Spike Dup (BC50139-M Matrix Spike Dup *Source sample: 25C0068-19 (TMW15_030325)								Prepared & Analyzed: 03/03/2025			
Chromium, Hexavalent	0.558	0.0100	mg/L	0.500	ND	112	85-115		17.7	200	
Batch BC50347 - Analysis Preparation											
Blank (BC50347-BLK1) Blank								Prepared & Analyzed: 03/05/2025			
Cyanide, total	ND	0.0100	mg/L								
LCS (BC50347-BS1) LCS								Prepared & Analyzed: 03/05/2025			
Cyanide, total	0.0876	0.0100	mg/L	0.100		87.6	80-120				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
25C0068-19	TMW15_030325	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
25C0068-20	GWTB02_030325	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
M-CCV1	The recovery for this element in the Continuing Calibration Verification (CCV) was outside the 90-110% recovery criteria.
S-HI	Surrogate recovery is above acceptance limits. No target compound is detected in sample.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
S-08	The recovery of this surrogate was outside of QC limits.
S-09	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect confirmed by re-extraction and re-analysis of the sample.
S-GC	Two surrogates are used for this analysis. One surrogate recovered within control limits therefore the analysis is acceptable.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis

Low Bias — Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This legal document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | 2161 Whitesville Rd Toms River, NJ 08755 | clientservices@yorklab.com | 800-306-YORK

YORK Project Number: 25C0068

Page 1 of 3

Report To:
Company: Langan
Address: 368 Ninth Ave, 8th Fl NY, NY 10001
Phone.: 212-479-5400
Contact: Lexi Haley
E-mail: LHaley@langan.com

Invoice To:
Company:
Address:
Phone.:
Contact:
E-mail:

YOUR Project Name / Number: Proposed Bally Casino – Bay Road of Ferry Point Park 17077801

PO Number:

Samples Collected From: NY [X] NJ [ ] CT [ ] PA [ ] Other: (please specify)

Turn-Around Time: RUSH - Next Day; RUSH - Two Day; RUSH - Three Day; RUSH - Four Day; RUSH - Five Day; Standard (6-9 Day) [X]; PFAS Standard 7-10 Day

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered; Lab Filtered

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Savannah Walters

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Preservative (please list number of containers)

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other: DI Water	Part 375 VOCs	Part 375 SVOCs, PCBs, Pest	Herb, TPH, metals (incl Hg)	tri chlorin & total cyanide	1,4-dioxane	PFAS	Grab or Comp. G/C
SBFB02_030325	3/3/25	0745	AQ	8	3		2		1					X	X	X	X	X		
SBFB02_PFAS_030325		0750		2															X	
SBTB02_030325		—			2															
SB05_0-2		0854	S	3		1							2	X	X	X	X	X		
SB05_5-7		0859																		
SB15_0-2		1117		4																
SB15_5-7		1151		3															X	
SB14_0-2		1409																		
SB14_5-7		1416																		
SB13_0-2		1349																		
SB13_5-7		1402																		
SB12_0-2		1451																		
SB12_5-7		1457																		
SB11_0-2		1526																		
SB11_5-7		1533																		

Comments: cc: datamanagement@langan.com, areach@langan.com & swalters@langan.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N (N) | Containers Intact: (Y) / N | COC/Labels Agree: (Y) / N | Preservation Confirmed: (Y) / N
COC Complete: (Y) / N | COC Received: (Y) / N | Appropriate Sample Volumes: (Y) / N | Appropriate Sample Containers: (Y) / N
Cooler Temperature Confirmed: (Y) / N | Samples Submitted within Holding Times: (Y) / N | Corrective Action Form Required: Y / (N)

Relinquished by / Company	Date/Time	Received by / Company	Date/Time	Relinquished by / Company	Date/Time
1. Savannah Walters (Langan)	3/3/25 1611	1. [signature]	3/3/25 16:00	2. [signature]	3/3/25 20:00
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by [signature]	Date/Time 3/3/25 20:00

Temperature 23 Degrees C

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

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YORK Project Number: 25C0068

Page 2 of 3

Report To:
Company: Langan
Address: 360 Madison Ave 8th Fl NY NY 10001
Phone: 212 479 5400
Contact: Levi Haley
E-mail: Chaley@langan.com

Invoice To:
Company:
Address:
Phone:
Contact:
E-mail:

YOUR Project Name / Number: Proposed Bally's Casino - Ring Road at Ferry Point Park 17078001

PO Number:

Samples Collected From: NY [X] NJ [ ] CT [ ] PA [ ] Other: (please specify)

Turn-Around Time: RUSH - Next Day [ ] RUSH - Two Day [ ] RUSH - Three Day [ ] RUSH - Four Day [ ] RUSH - Five Day [ ] Standard (6-9 Day) [X] PFAS Standard 7-10 Day [ ]

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Sarah Walters / Savannah Walters

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Preservative (please list number of containers)

Analyses Requested

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other: DI Water	Part 375 VOCs	Part 375 SVOCs, PCB Pest	Herb, TAL Metals (incl Hg)	tri chrom & total cyanide	1,4-dioxane	PFAS	Grab or Comp G/C
SB20_0-2	3/3/25	15:26	S	3		1							2	X	X	X	X	X		
SB20_5-7*	↓	1533	↓	4		1							2	↓	↓	↓	↓	↓	X	
SOTMP03-030325	↓	—	↓	3		1							2	↓	↓	↓	↓	↓		

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered [ ]
Lab Filtered [ ]

Comments: cc: datamanagement@langan.com areach@langan.com & swalters@langan.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N (N) Containers Intact: (Y) / N COC/Labels Agree: (Y) / N Preservation Confirmed: (Y) / N
COC Complete: (Y) / N COC Received: (Y) / N Appropriate Sample Volumes: (Y) / N Appropriate Sample Containers: (Y) / N
Cooler Temperature Confirmed: (Y) / N Samples Submitted within Holding Times: (Y) / N Corrective Action Form Required: Y / (N)

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
1. Savannah Walters (Langan)	3/3/25 1611	1. [signature]	3/3/25 16:00	2. [signature]	3/3/25 20:00
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in Lab by: [signature]	Date/Time 3/3/25 20:00 Temperature 2.3 Degrees C

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

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YORK Project Number: 2500068

Page 3 of 3

Report To:
Company: Langan
Address: 368 Ninth Ave 8th Fl NY, NY 10001
Phone.: 212 479 5400
Contact: Lexi Haley
E-mail: LHaley@langan.com

Invoice To:
Company:
Address:
Phone.:
Contact:
E-mail:

YOUR Project Name / Number: Proposed Bally's Casino – Ring Road at Ferry Point Park 17077.3004

PO Number:

Samples Collected From: NY ✓ | NJ | CT | PA | Other: (please specify)

Turn-Around Time: RUSH - Next Day | RUSH - Two Day | RUSH - Three Day | RUSH - Four Day | RUSH - Five Day | Standard (6-9 Day) ✓ | PFAS Standard 7-10 Day

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Savannah Walters

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Preservative (please list number of containers)

Analyses Requested

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other:	Part 375 VOCs	Part 375 SVOCs, KBs, Pest	Herb, TPH methods (i.e. 418.1)	tr chrom & total cyanide	(dissolved & total) Hardness	PFAS	Grab or Comp. G/C
TMW15_030325	3/3/25	1021	GW	10	3		2		1					X	X	X	X	X	X	
GWTB02_030325		—	AQ		2									X						

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered ✓
Lab Filtered

Comments: cc data-management@langan.com; areach@langan.com; swalters@langan.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N | Containers Intact: Y / N | COC/Labels Agree: Y / N | Preservation Confirmed: Y / N
COC Complete: Y / N | COC Received: Y / N | Appropriate Sample Volumes: Y / N | Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N | Samples Submitted within Holding Times: Y / N | Corrective Action Form Required: Y / N

Relinquished by / Company	Date/Time	Received by / Company	Date/Time	Relinquished by / Company	Date/Time
1. Savannah Walters (Langan)	3/3/25 1611	1. [signature]	3/3/25 16:10	2. [signature]	3/3/25 20:00
2.		3.		3.	
4.		4.		Samples Received in LAB by: [signature]	3/3/25 20:00

Temperature: 2.3 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Report Date: 03/12/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0154

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/12/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0154

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 04, 2025 and listed below. The project was identified as your project: **170773001**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25C0154-01	TMW20_030425	Ground Water	03/04/2025	03/04/2025
25C0154-02	GWFB01_030425	Water	03/04/2025	03/04/2025
25C0154-03	GWFB01_PFAS_030425	Water	03/04/2025	03/04/2025
25C0154-04	GWTB03_030425	Water	03/04/2025	03/04/2025

General Notes for York Project (SDG) No.: 25C0154

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By **Date:** 03/12/2025

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: **TMW20_030425** **York Sample ID:** **25C0154-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Ground Water	March 4, 2025 11:05 am	03/04/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.470**		ug/L	0.421	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **TMW20_030425** **York Sample ID:** **25C0154-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Ground Water	March 4, 2025 11:05 am	03/04/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**3.68**	ICVE	ug/L	1.34	2.00	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		ug/L	0.447	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND	CCVE	ug/L	0.119	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	ug/L	0.372	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND	ICVE	ug/L	0.491	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.451	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: **TMW20_030425** **York Sample ID:** **25C0154-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Ground Water	March 4, 2025 11:05 am	03/04/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND	ICVE	ug/L	0.442	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **TMW20_030425** **York Sample ID:** **25C0154-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Ground Water	March 4, 2025 11:05 am	03/04/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE	ug/L	0.469	0.500	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/06/2025 10:17	03/06/2025 12:21	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*94.3 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*92.8 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*91.4 %*	*79-122*

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW20_030425 **York Sample ID:** 25C0154-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Ground Water	March 4, 2025 11:05 am	03/04/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-48-7	2-Methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
99-09-2	3-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		ug/L	5.00	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		ug/L	5.00	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW20_030425 **York Sample ID:** 25C0154-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Ground Water	March 4, 2025 11:05 am	03/04/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.00	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	NELAC-NY10854,PADEP-68-04440		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.00	10.0	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		ug/L	0.750	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/11/2025 08:19	03/11/2025 20:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*42.9 %*	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*26.6 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*59.6 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*68.7 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*85.0 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*107 %*	*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **TMW20_030425** **York Sample ID:** **25C0154-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Ground Water	March 4, 2025 11:05 am	03/04/2025

83-32-9	Acenaphthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-12-7	Anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		ug/L	0.500	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.500	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	Chrysene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	Fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	Fluorene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
118-74-1	Hexachlorobenzene	ND		ug/L	0.0200	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.500	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND		ug/L	0.500	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.220**		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND	CCVE, ICVE	ug/L	0.250	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
62-75-9	N-Nitrosodimethylamine	ND	CCVE	ug/L	0.500	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-86-5	Pentachlorophenol	ND	CCVE	ug/L	0.250	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
85-01-8	Phenanthrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/11/2025 08:26	03/11/2025 19:34	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **TMW20_030425** **York Sample ID:** **25C0154-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Ground Water	March 4, 2025 11:05 am	03/04/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270E SIM Certifications: NJDEP-CT005,NELAC-NY10854	03/07/2025 08:29	03/08/2025 03:32	SS

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*76.0 %*	*36.6-118*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**5.72**		ng/L	0.438	1.65	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**7.53**		ng/L	0.326	1.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**5.12**		ng/L	0.662	1.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**2.26**		ng/L	0.634	1.71	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
335-67-1	**Perfluorooctanoic acid (PFOA)**	**24.9**		ng/L	0.391	1.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**5.11**		ng/L	0.764	1.73	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
375-95-1	**Perfluorononanoic acid (PFNA)**	**2.41**		ng/L	0.485	1.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.699	1.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.05	1.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.820	1.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.690	1.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.643	1.86	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.736	1.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
2991-50-6	N-EtFOSAA	ND		ng/L	0.960	1.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**9.83**		ng/L	0.214	3.73	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.820	1.86	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM

Sample Information

Client Sample ID: TMW20_030425 **York Sample ID:** 25C0154-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Ground Water	March 4, 2025 11:05 am	03/04/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.848	1.78	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.23	1.80	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	6.99	7.08	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.91	7.16	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**9.65**		ng/L	0.308	7.46	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.466	3.32	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/09/2025 14:27	03/11/2025 05:27	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	1.99	3.73	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/09/2025 14:27	03/11/2025 05:27	AM
377-73-1	**Perfluoro-4-oxapentanoic acid (PFMPA)**	**0.238**	J	ng/L	0.233	3.73	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/09/2025 14:27	03/11/2025 05:27	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.345	3.73	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/09/2025 14:27	03/11/2025 05:27	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.708	1.75	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.67	6.99	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.01	7.46	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.29	7.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.652	6.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
919005-14-4	ADONA	ND		ng/L	0.494	7.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.867	1.81	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 05:27	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.801	1.79	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/09/2025 14:27	03/11/2025 05:27	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.89	4.66	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 05:27	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	6.83	23.3	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 05:27	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	8.83	23.3	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 05:27	AM
24448-09-7	* N-MeFOSE	ND		ng/L	3.72	18.6	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 05:27	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.47	1.86	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 05:27	AM

Sample Information

Client Sample ID: TMW20_030425 **York Sample ID:** 25C0154-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Ground Water	March 4, 2025 11:05 am	03/04/2025

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1691-99-2	* N-EtFOSE	ND		ng/L	3.72	18.6	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 05:27	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.68	1.86	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 05:27	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*139 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*137 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*153 %*	PFSu-H	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*154 %*	PFSu-H	*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*137 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*127 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*123 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*110 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*89.1 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*51.1 %*		*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*135 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*105 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*122 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*141 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*150 %*	PFSu-H	*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*463 %*	PFSu-H	*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*284 %*	PFSu-H	*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*142 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*460 %*	PFSu-H	*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*88.1 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*75.3 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*129 %*		*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*91.5 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*91.5 %*		*25-150*

Sample Information

Client Sample ID: TMW20_030425 **York Sample ID:** 25C0154-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Ground Water	March 4, 2025 11:05 am	03/04/2025

PEST, 8081 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	03/11/2025 08:38	03/11/2025 23:53	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	03/11/2025 08:38	03/11/2025 23:53	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	03/11/2025 08:38	03/11/2025 23:53	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	03/11/2025 08:38	03/11/2025 23:53	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/11/2025 08:38	03/11/2025 23:53	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	03/11/2025 08:38	03/11/2025 23:53	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/11/2025 08:38	03/11/2025 23:53	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/11/2025 08:38	03/11/2025 23:53	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	03/11/2025 08:38	03/11/2025 23:53	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	03/11/2025 08:38	03/11/2025 23:53	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	03/11/2025 08:38	03/11/2025 23:53	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	03/11/2025 08:38	03/11/2025 23:53	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	03/11/2025 08:38	03/11/2025 23:53	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	03/11/2025 08:38	03/11/2025 23:53	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	03/11/2025 08:38	03/11/2025 23:53	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	03/11/2025 08:38	03/11/2025 23:53	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	03/11/2025 08:38	03/11/2025 23:53	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	03/11/2025 08:38	03/11/2025 23:53	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	03/11/2025 08:38	03/11/2025 23:53	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	03/11/2025 08:38	03/11/2025 23:53	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	03/11/2025 08:38	03/11/2025 23:53	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW20_030425 **York Sample ID:** 25C0154-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Ground Water	March 4, 2025 11:05 am	03/04/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B Certifications:	03/11/2025 08:38	03/11/2025 23:53	RJ

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*61.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*66.7 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 14:18	03/09/2025 11:10	NF
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 14:18	03/09/2025 11:10	NF
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 14:18	03/09/2025 11:10	NF
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 14:18	03/09/2025 11:10	NF
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 14:18	03/09/2025 11:10	NF
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 14:18	03/09/2025 11:10	NF
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	03/07/2025 14:18	03/09/2025 11:10	NF
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A Certifications:	03/07/2025 14:18	03/09/2025 11:10	NF

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*36.0 %*		*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*25.0 %*	S-GC, S-08	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/10/2025 08:50	03/10/2025 20:04	GXB
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/10/2025 08:50	03/10/2025 20:04	GXB
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	03/10/2025 08:50	03/10/2025 20:04	GXB

Sample Information

Client Sample ID: **TMW20_030425** **York Sample ID:** **25C0154-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Ground Water	March 4, 2025 11:05 am	03/04/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*59.4 %*	*30-150*

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.925**		mg/L	0.0556	1	EPA 6010D	03/07/2025 08:32	03/07/2025 15:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.218**		mg/L	0.0278	1	EPA 6010D	03/07/2025 08:32	03/07/2025 15:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**106**		mg/L	0.0556	1	EPA 6010D	03/07/2025 08:32	03/07/2025 15:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/07/2025 08:32	03/07/2025 15:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**0.00600**		mg/L	0.00444	1	EPA 6010D	03/07/2025 08:32	03/07/2025 15:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/07/2025 08:32	03/07/2025 15:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**67.7**		mg/L	0.278	1	EPA 6010D	03/07/2025 08:32	03/07/2025 15:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/07/2025 08:32	03/07/2025 15:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**30.1**		mg/L	0.0556	1	EPA 6010D	03/07/2025 08:32	03/07/2025 15:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**5.53**		mg/L	0.00556	1	EPA 6010D	03/07/2025 08:32	03/07/2025 15:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/07/2025 08:32	03/07/2025 15:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**17.0**		mg/L	0.0556	1	EPA 6010D	03/07/2025 08:32	03/07/2025 15:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND	M-CCV 1	mg/L	0.00556	1	EPA 6010D	03/07/2025 08:32	03/07/2025 15:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**730**	M-BS	mg/L	0.556	1	EPA 6010D	03/07/2025 08:32	03/07/2025 15:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/07/2025 08:32	03/07/2025 15:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	03/07/2025 08:32	03/07/2025 15:45	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICP Dissolved

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **TMW20_030425** **York Sample ID:** **25C0154-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Ground Water	March 4, 2025 11:05 am	03/04/2025

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.858**		mg/L	0.0556	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.225**		mg/L	0.0278	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**107**	M-BS	mg/L	0.0556	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**0.0182**		mg/L	0.00556	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**0.0200**		mg/L	0.00444	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	**Copper**	**0.0264**		mg/L	0.0222	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**64.0**		mg/L	0.278	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**0.0140**		mg/L	0.00556	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**30.3**		mg/L	0.0556	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**5.71**		mg/L	0.00556	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**0.0179**		mg/L	0.0111	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**16.5**	M-BS	mg/L	0.0556	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	**Silver**	**0.0154**		mg/L	0.00556	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**724**		mg/L	0.556	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**0.0157**		mg/L	0.0111	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**0.0353**	M-CCV 1	mg/L	0.0278	1	EPA 6010D	03/06/2025 08:38	03/06/2025 17:39	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-CCV 1	ug/L	1.11	1	EPA 6020B	03/07/2025 08:25	03/07/2025 17:13	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**6.26**		ug/L	1.11	1	EPA 6020B	03/07/2025 08:25	03/07/2025 17:13	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND	M-CCV 1	ug/L	0.333	1	EPA 6020B	03/07/2025 08:25	03/07/2025 17:13	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND	M-CCV 1	ug/L	0.556	1	EPA 6020B	03/07/2025 08:25	03/07/2025 17:13	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW20_030425 **York Sample ID:** 25C0154-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Ground Water	March 4, 2025 11:05 am	03/04/2025

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B	03/07/2025 08:25	03/07/2025 17:13	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/07/2025 08:25	03/07/2025 17:13	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	03/07/2025 08:47	03/07/2025 16:33	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**6.95**		ug/L	1.11	1	EPA 6020B	03/07/2025 08:47	03/07/2025 16:33	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND	M-CCV 1	ug/L	0.333	1	EPA 6020B	03/07/2025 08:47	03/07/2025 16:33	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.653**	M-CCV 1	ug/L	0.556	1	EPA 6020B	03/07/2025 08:47	03/07/2025 16:33	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B	03/07/2025 08:47	03/07/2025 16:33	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/07/2025 08:47	03/07/2025 16:33	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/06/2025 08:08	03/06/2025 08:08	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/06/2025 08:11	03/06/2025 08:11	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	03/04/2025 21:47	03/04/2025 23:00	SML
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW20_030425 **York Sample ID:** 25C0154-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Ground Water	March 4, 2025 11:05 am	03/04/2025

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	03/10/2025 19:47	03/10/2025 19:53	SL

Certifications:

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C-2016 / E-201(	03/10/2025 14:00	03/10/2025 17:31	CB

Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: GWFB01_030425 **York Sample ID:** 25C0154-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Water	March 4, 2025 8:15 am	03/04/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND	QL-02	ug/L	0.283	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: GWFB01_030425 **York Sample ID:** 25C0154-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Water	March 4, 2025 8:15 am	03/04/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND		ug/L	1.34	2.00	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	CCVE, ICVE	ug/L	0.447	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND	CCVE	ug/L	0.119	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	**Chloroform**	**0.270**		ug/L	0.243	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	ug/L	0.372	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: GWFB01_030425 **York Sample ID:** 25C0154-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Water	March 4, 2025 8:15 am	03/04/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: GWFB01_030425 **York Sample ID:** 25C0154-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Water	March 4, 2025 8:15 am	03/04/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/05/2025 19:24	03/05/2025 21:00	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*98.3 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*95.1 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*97.8 %*	*79-122*

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: GWFB01_030425 **York Sample ID:** 25C0154-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Water	March 4, 2025 8:15 am	03/04/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-48-7	2-Methylphenol	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
99-09-2	3-Nitroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND	CCVE	ug/L	5.71	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND	CAL-E	ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		ug/L	5.71	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CCVE	ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: GWFB01_030425 **York Sample ID:** 25C0154-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Water	March 4, 2025 8:15 am	03/04/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.14	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	NELAC-NY10854,PADEP-68-04440		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.71	11.4	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND	CCVE	ug/L	0.857	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		ug/L	2.86	5.71	1	EPA 8270D	03/10/2025 08:27	03/11/2025 10:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*25.4 %*		*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*15.2 %*		*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*46.4 %*	S-08	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*49.4 %*		*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*60.4 %*		*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*70.2 %*		*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: GWFB01_030425 **York Sample ID:** 25C0154-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Water	March 4, 2025 8:15 am	03/04/2025

83-32-9	Acenaphthene	ND		ug/L	0.0571	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		ug/L	0.0571	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-12-7	Anthracene	ND		ug/L	0.0571	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		ug/L	0.571	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0571	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0571	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0571	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0571	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0571	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.571	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	Chrysene	ND		ug/L	0.0571	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0571	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	Fluoranthene	ND		ug/L	0.0571	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	**Fluorene**	**0.217**		ug/L	0.0571	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
118-74-1	Hexachlorobenzene	ND		ug/L	0.0229	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.571	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND		ug/L	0.571	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0571	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		ug/L	0.0571	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND	CCVE, ICVE	ug/L	0.286	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.571	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-86-5	Pentachlorophenol	ND		ug/L	0.286	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
85-01-8	Phenanthrene	ND		ug/L	0.0571	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		ug/L	0.0571	1	EPA 8270D SIM	03/10/2025 08:32	03/11/2025 09:19	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: GWFB01_030425 **York Sample ID:** 25C0154-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Water	March 4, 2025 8:15 am	03/04/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270E SIM	03/07/2025 08:29	03/08/2025 03:47	SS
							Certifications: NJDEP-CT005,NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*100 %*	*36.6-118*

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: GWFB01_030425 **York Sample ID:** 25C0154-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Water	March 4, 2025 8:15 am	03/04/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B	03/10/2025 08:35	03/11/2025 11:43	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*54.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*48.5 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/10/2025 10:22	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/10/2025 10:22	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/10/2025 10:22	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/10/2025 10:22	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/10/2025 10:22	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/10/2025 10:22	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/10/2025 10:22	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	03/07/2025 14:18	03/10/2025 10:22	NF
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*24.5 %*	S-08, S-GC	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*30.0 %*		*30-120*

Sample Information

Client Sample ID: GWFB01_030425 **York Sample ID:** 25C0154-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Water	March 4, 2025 8:15 am	03/04/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	03/10/2025 08:50	03/10/2025 20:12	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	03/10/2025 08:50	03/10/2025 20:12	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	03/10/2025 08:50	03/10/2025 20:12	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*79.6 %*	*30-150*

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	03/07/2025 08:32	03/10/2025 15:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	Barium	ND		mg/L	0.0278	1	EPA 6010D	03/07/2025 08:32	03/10/2025 15:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**0.614**		mg/L	0.0556	1	EPA 6010D	03/07/2025 08:32	03/10/2025 15:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/07/2025 08:32	03/10/2025 15:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	03/07/2025 08:32	03/10/2025 15:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/07/2025 08:32	03/10/2025 15:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	03/07/2025 08:32	03/10/2025 15:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/07/2025 08:32	03/10/2025 15:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**0.0647**		mg/L	0.0556	1	EPA 6010D	03/07/2025 08:32	03/10/2025 15:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 6010D	03/07/2025 08:32	03/10/2025 15:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/07/2025 08:32	03/10/2025 15:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**0.122**		mg/L	0.0556	1	EPA 6010D	03/07/2025 08:32	03/10/2025 15:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/07/2025 08:32	03/10/2025 15:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	Sodium	ND		mg/L	0.556	1	EPA 6010D	03/07/2025 08:32	03/10/2025 15:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: GWFB01_030425 **York Sample ID:** 25C0154-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Water	March 4, 2025 8:15 am	03/04/2025

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/07/2025 08:32	03/10/2025 15:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	03/07/2025 08:32	03/10/2025 15:22	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-CCV 1	ug/L	1.11	1	EPA 6020B	03/07/2025 08:25	03/07/2025 17:27	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	03/07/2025 08:25	03/07/2025 17:27	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND	M-CCV 1	ug/L	0.333	1	EPA 6020B	03/07/2025 08:25	03/07/2025 17:27	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND	M-CCV 1	ug/L	0.556	1	EPA 6020B	03/07/2025 08:25	03/07/2025 17:27	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B	03/07/2025 08:25	03/07/2025 17:27	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/07/2025 08:25	03/07/2025 17:27	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/06/2025 08:08	03/06/2025 08:08	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	03/04/2025 21:47	03/04/2025 23:00	SML
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	03/10/2025 19:47	03/10/2025 19:53	SL
							Certifications:			

Sample Information

Client Sample ID: **GWFB01_030425** **York Sample ID:** **25C0154-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Water	March 4, 2025 8:15 am	03/04/2025

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C-2016 / E-2016	03/10/2025 14:00	03/10/2025 17:31	CB

Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: GWFB01_PFAS_030425 **York Sample ID:** 25C0154-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Water	March 4, 2025 8:19 am	03/04/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.427	1.61	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.318	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.645	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.618	1.66	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.381	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.745	1.69	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.472	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.681	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.03	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.799	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.672	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.627	1.82	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.717	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
2991-50-6	N-EtFOSAA	ND		ng/L	0.935	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.209	3.63	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.799	1.82	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.826	1.73	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.20	1.75	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	6.81	6.90	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.86	6.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.300	7.26	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM

Sample Information

Client Sample ID: GWFB01_PFAS_030425 **York Sample ID:** 25C0154-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Water	March 4, 2025 8:19 am	03/04/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.454	3.23	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/09/2025 14:27	03/11/2025 02:30	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	1.94	3.63	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/09/2025 14:27	03/11/2025 02:30	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.227	3.63	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/09/2025 14:27	03/11/2025 02:30	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.336	3.63	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/09/2025 14:27	03/11/2025 02:30	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.690	1.71	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.63	6.81	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	2.93	7.26	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.25	6.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.636	6.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
919005-14-4	ADONA	ND		ng/L	0.481	6.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.845	1.76	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 02:30	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.781	1.74	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/09/2025 14:27	03/11/2025 02:30	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND	PF-LCS-L	ng/L	1.84	4.54	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 02:30	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	6.66	22.7	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 02:30	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	8.60	22.7	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 02:30	AM
24448-09-7	* N-MeFOSE	ND		ng/L	3.62	18.2	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 02:30	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.43	1.82	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 02:30	AM
1691-99-2	* N-EtFOSE	ND		ng/L	3.62	18.2	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 02:30	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.63	1.82	1	EPA 1633 Draft 3 Certifications:	03/09/2025 14:27	03/11/2025 02:30	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*140 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*135 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*162 %*	PFSu-H	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*143 %*		*25-150*

Sample Information

Client Sample ID: GWFB01_PFAS_030425 **York Sample ID:** 25C0154-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Water	March 4, 2025 8:19 am	03/04/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*141 %*			*25-150*						
13C6PFDA	*Surrogate: M6PFDA*	*140 %*			*25-150*						
13C7PFUNA	*Surrogate: M7PFUdA*	*133 %*			*25-150*						
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*119 %*			*25-150*						
13C2PFTEDA	*Surrogate: M2PFTeDA*	*76.2 %*			*10-150*						
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*2.45 %*	PFSu-L		*25-150*						
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*123 %*			*25-150*						
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*57.1 %*			*25-150*						
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*138 %*			*10-150*						
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*137 %*			*25-150*						
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*147 %*			*25-150*						
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*122 %*			*25-200*						
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*128 %*			*25-200*						
13C9PFNA	*Surrogate: M9PFNA*	*140 %*			*25-150*						
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*116 %*			*25-150*						
936109-37-4	*Surrogate: d-N-MeFOSA*	*104 %*			*25-150*						
936109-40-9	*Surrogate: d-N-EtFOSA*	*98.1 %*			*25-150*						
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*113 %*			*25-150*						
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*101 %*			*25-150*						
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*109 %*			*25-150*						

Sample Information

Client Sample ID: GWTB03_030425 **York Sample ID:** 25C0154-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Water	March 4, 2025 3:00 pm	03/04/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: GWTB03_030425 **York Sample ID:** 25C0154-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Water	March 4, 2025 3:00 pm	03/04/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND		ug/L	1.34	2.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: GWTB03_030425 **York Sample ID:** 25C0154-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Water	March 4, 2025 3:00 pm	03/04/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **GWTB03_030425** **York Sample ID:** **25C0154-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0154	170773001	Water	March 4, 2025 3:00 pm	03/04/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/05/2025 09:39	03/05/2025 11:44	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.9 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*92.5 %*	*79-122*

Analytical Batch Summary

Batch ID: BC50245 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-01	TMW20_030425	03/04/25
25C0154-02	GWFB01_030425	03/04/25
BC50245-BLK1	Blank	03/04/25
BC50245-BS1	LCS	03/04/25
BC50245-DUP1	Duplicate	03/04/25
BC50245-MS1	Matrix Spike	03/04/25
BC50245-MSD1	Matrix Spike Dup	03/04/25

Batch ID: BC50272 **Preparation Method:** EPA 5030B **Prepared By:** SCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-04	GWTB03_030425	03/05/25
BC50272-BLK1	Blank	03/05/25
BC50272-BS1	LCS	03/05/25
BC50272-BSD1	LCS Dup	03/05/25

Batch ID: BC50352 **Preparation Method:** EPA 5030B **Prepared By:** PMB

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-02	GWFB01_030425	03/05/25
BC50352-BLK1	Blank	03/05/25
BC50352-BS1	LCS	03/05/25

Batch ID: BC50367 **Preparation Method:** EPA SW846-7470A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-01	TMW20_030425	03/06/25
25C0154-02	GWFB01_030425	03/06/25
BC50367-BLK1	Blank	03/06/25
BC50367-BS1	LCS	03/06/25
BC50367-DUP1	Duplicate	03/06/25
BC50367-MS1	Matrix Spike	03/06/25
BC50367-MSD1	Matrix Spike Dup	03/06/25

Batch ID: BC50369 **Preparation Method:** EPA SW846-7470A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-01	TMW20_030425	03/06/25
BC50369-BLK1	Blank	03/06/25
BC50369-BS1	LCS	03/06/25
BC50369-DUP1	Duplicate	03/06/25
BC50369-MS1	Matrix Spike	03/06/25
BC50369-MSD1	Matrix Spike Dup	03/06/25

Batch ID: BC50380 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-01	TMW20_030425	03/06/25
BC50380-BLK1	Blank	03/06/25
BC50380-BS1	LCS	03/06/25
BC50380-DUP1	Duplicate	03/06/25
BC50380-MS1	Matrix Spike	03/06/25
BC50380-PS1	Post Spike	03/06/25

Batch ID: BC50381 **Preparation Method:** EPA 5030B **Prepared By:** SCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-01	TMW20_030425	03/06/25
BC50381-BLK1	Blank	03/06/25
BC50381-BS1	LCS	03/06/25
BC50381-MS1	Matrix Spike	03/06/25
BC50381-MSD1	Matrix Spike Dup	03/06/25

Batch ID: BC50495 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-01	TMW20_030425	03/07/25
25C0154-02	GWFB01_030425	03/07/25
BC50495-BLK1	Blank	03/07/25
BC50495-BS1	LCS	03/07/25
BC50495-DUP1	Duplicate	03/07/25
BC50495-MS1	Matrix Spike	03/07/25

Batch ID: BC50497 **Preparation Method:** EPA 3535A **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-01	TMW20_030425	03/07/25
25C0154-02	GWFB01_030425	03/07/25
BC50497-BLK1	Blank	03/07/25
BC50497-BS1	LCS	03/07/25
BC50497-MS1	Matrix Spike	03/07/25
BC50497-MSD1	Matrix Spike Dup	03/07/25

Batch ID: BC50498 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-01	TMW20_030425	03/07/25
25C0154-02	GWFB01_030425	03/07/25
BC50498-BLK1	Blank	03/07/25
BC50498-BS1	LCS	03/07/25
BC50498-DUP1	Duplicate	03/07/25

BC50498-MS1	Matrix Spike	03/07/25
BC50498-PS1	Post Spike	03/07/25

Batch ID: BC50503 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-01	TMW20_030425	03/07/25
BC50503-BLK1	Blank	03/07/25
BC50503-BS1	LCS	03/07/25
BC50503-DUP1	Duplicate	03/07/25
BC50503-MS1	Matrix Spike	03/07/25

Batch ID: BC50548 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** AJC

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-01	TMW20_030425	03/07/25
25C0154-02	GWFB01_030425	03/07/25
BC50548-BLK1	Blank	03/07/25
BC50548-BS2	LCS	03/07/25
BC50548-MS2	Matrix Spike	03/07/25
BC50548-MSD2	Matrix Spike Dup	03/07/25

Batch ID: BC50617 **Preparation Method:** EPA 1633 Prep **Prepared By:** JLH

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-01	TMW20_030425	03/09/25
25C0154-03	GWFB01_PFAS_030425	03/09/25
BC50617-BLK1	Blank	03/09/25
BC50617-BS1	LCS	03/09/25
BC50617-BS2	LCS	03/09/25
BC50617-MS1	Matrix Spike	03/09/25
BC50617-MSD1	Matrix Spike Dup	03/09/25

Batch ID: BC50638 **Preparation Method:** EPA 3510C **Prepared By:** DCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-02	GWFB01_030425	03/10/25
BC50638-BLK1	Blank	03/10/25
BC50638-BS1	LCS	03/10/25

Batch ID: BC50640 **Preparation Method:** EPA 3510C **Prepared By:** DCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-02	GWFB01_030425	03/10/25
BC50640-BLK2	Blank	03/10/25
BC50640-BS2	LCS	03/10/25

Batch ID: BC50644 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** DCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-02	GWFB01_030425	03/10/25
BC50644-BLK1	Blank	03/10/25
BC50644-BS1	LCS	03/10/25
BC50644-BSD1	LCS Dup	03/10/25

Batch ID: BC50648 **Preparation Method:** EPA 8151A **Prepared By:** YL

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-01	TMW20_030425	03/10/25
25C0154-02	GWFB01_030425	03/10/25
BC50648-BLK1	Blank	03/10/25
BC50648-BS1	LCS	03/10/25
BC50648-BSD1	LCS Dup	03/10/25
BC50648-MS1	Matrix Spike	03/10/25
BC50648-MSD1	Matrix Spike Dup	03/10/25

Batch ID: BC50690 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-01	TMW20_030425	03/10/25
25C0154-02	GWFB01_030425	03/10/25
BC50690-BLK1	Blank	03/10/25
BC50690-BS1	LCS	03/10/25
BC50690-DUP1	Duplicate	03/10/25
BC50690-MS1	Matrix Spike	03/10/25
BC50690-MSD1	Matrix Spike Dup	03/10/25

Batch ID: BC50733 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-01	TMW20_030425	03/10/25
25C0154-02	GWFB01_030425	03/10/25

Batch ID: BC50750 **Preparation Method:** EPA 3510C **Prepared By:** AJC

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-01	TMW20_030425	03/11/25
BC50750-BLK1	Blank	03/11/25
BC50750-BS1	LCS	03/11/25
BC50750-MS1	Matrix Spike	03/11/25

Batch ID: BC50752 **Preparation Method:** EPA 3510C **Prepared By:** AJC

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-01	TMW20_030425	03/11/25

Batch ID: BC50755 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** NMB2

YORK Sample ID	Client Sample ID	Preparation Date
25C0154-01	TMW20_030425	03/11/25
BC50755-BLK1	Blank	03/11/25
BC50755-MS1	Matrix Spike	03/11/25
BC50755-MSD1	Matrix Spike Dup	03/11/25

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
Blank (BC50272-BLK1) Blank									Prepared & Analyzed: 03/05/2025		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
Blank (BC50272-BLK1) Blank							Prepared & Analyzed: 03/05/2025				
n-Butylbenzene	ND	0.500	ug/L								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.40*		*"*	*10.0*		*94.0*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.36*		*"*	*10.0*		*93.6*	*79-122*				
LCS (BC50272-BS1) LCS							Prepared & Analyzed: 03/05/2025				
1,1,1,2-Tetrachloroethane	9.58		ug/L	10.0		95.8	82-126				
1,1,1-Trichloroethane	9.50		"	10.0		95.0	78-136				
1,1,2,2-Tetrachloroethane	9.19		"	10.0		91.9	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8		"	10.0		108	54-165				
1,1,2-Trichloroethane	9.09		"	10.0		90.9	82-123				
1,1-Dichloroethane	9.29		"	10.0		92.9	82-129				
1,1-Dichloroethylene	9.89		"	10.0		98.9	68-138				
1,2,3-Trichlorobenzene	10.8		"	10.0		108	76-136				
1,2,3-Trichloropropane	8.77		"	10.0		87.7	77-128				
1,2,4-Trichlorobenzene	10.6		"	10.0		106	76-137				
1,2,4-Trimethylbenzene	9.62		"	10.0		96.2	82-132				
1,2-Dibromo-3-chloropropane	8.29		"	10.0		82.9	45-147				
1,2-Dibromoethane	9.24		"	10.0		92.4	83-124				
1,2-Dichlorobenzene	9.07		"	10.0		90.7	79-123				
1,2-Dichloroethane	9.54		"	10.0		95.4	73-132				
1,2-Dichloropropane	9.07		"	10.0		90.7	78-126				
1,3,5-Trimethylbenzene	9.27		"	10.0		92.7	80-131				
1,3-Dichlorobenzene	9.17		"	10.0		91.7	86-122				
1,4-Dichlorobenzene	9.14		"	10.0		91.4	85-124				
1,4-Dioxane	154		"	210		73.2	10-349				
2-Butanone	9.31		"	10.0		93.1	49-152				
2-Hexanone	9.14		"	10.0		91.4	51-146				
4-Methyl-2-pentanone	9.59		"	10.0		95.9	57-145				
Acetone	7.05		"	10.0		70.5	14-150				
Acrolein	14.0		"	10.0		140	10-153				
Acrylonitrile	10.7		"	10.0		107	51-150				
Benzene	10.0		"	10.0		100	85-126				
Bromochloromethane	9.62		"	10.0		96.2	77-128				
Bromodichloromethane	9.26		"	10.0		92.6	79-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
LCS (BC50272-BS1) LCS							Prepared & Analyzed: 03/05/2025				
Bromoform	10.2		ug/L	10.0		102	78-133				
Bromomethane	9.85		"	10.0		98.5	43-168				
Carbon disulfide	10.8		"	10.0		108	68-146				
Carbon tetrachloride	9.98		"	10.0		99.8	77-141				
Chlorobenzene	9.23		"	10.0		92.3	88-120				
Chloroethane	10.2		"	10.0		102	65-136				
Chloroform	9.55		"	10.0		95.5	82-128				
Chloromethane	9.93		"	10.0		99.3	43-155				
cis-1,2-Dichloroethylene	10.2		"	10.0		102	83-129				
cis-1,3-Dichloropropylene	9.26		"	10.0		92.6	80-131				
Cyclohexane	10.3		"	10.0		103	63-149				
Dibromochloromethane	9.52		"	10.0		95.2	80-130				
Dibromomethane	8.87		"	10.0		88.7	72-134				
Dichlorodifluoromethane	11.5		"	10.0		115	44-144				
Ethyl Benzene	9.37		"	10.0		93.7	80-131				
Hexachlorobutadiene	10.5		"	10.0		105	67-146				
Isopropylbenzene	8.88		"	10.0		88.8	76-140				
Methyl acetate	13.1		"	10.0		131	51-139				
Methyl tert-butyl ether (MTBE)	9.67		"	10.0		96.7	76-135				
Methylcyclohexane	9.45		"	10.0		94.5	72-143				
Methylene chloride	9.10		"	10.0		91.0	55-137				
n-Butylbenzene	9.79		"	10.0		97.9	79-132				
n-Propylbenzene	8.96		"	10.0		89.6	78-133				
o-Xylene	9.33		"	10.0		93.3	78-130				
p- & m- Xylenes	18.5		"	20.0		92.4	77-133				
p-Isopropyltoluene	9.72		"	10.0		97.2	81-136				
sec-Butylbenzene	9.17		"	10.0		91.7	79-137				
Styrene	9.82		"	10.0		98.2	67-132				
tert-Butyl alcohol (TBA)	59.2		"	50.0		118	25-162				
tert-Butylbenzene	9.10		"	10.0		91.0	77-138				
Tetrachloroethylene	6.02		"	10.0		60.2	82-131	Low Bias			
Toluene	9.14		"	10.0		91.4	80-127				
trans-1,2-Dichloroethylene	9.62		"	10.0		96.2	80-132				
trans-1,3-Dichloropropylene	9.55		"	10.0		95.5	78-131				
Trichloroethylene	8.91		"	10.0		89.1	82-128				
Trichlorofluoromethane	10.2		"	10.0		102	67-139				
Vinyl Chloride	10.2		"	10.0		102	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.59*		*"*	*10.0*		*95.9*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.56*		*"*	*10.0*		*95.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.58*		*"*	*10.0*		*95.8*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
LCS Dup (BC50272-BSD1) LCS Dup							Prepared & Analyzed: 03/05/2025				
1,1,1,2-Tetrachloroethane	10.0		ug/L	10.0		100	82-126		4.29	30	
1,1,1-Trichloroethane	9.69		"	10.0		96.9	78-136		1.98	30	
1,1,2,2-Tetrachloroethane	10.1		"	10.0		101	76-129		9.04	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0		"	10.0		110	54-165		1.93	30	
1,1,2-Trichloroethane	10.0		"	10.0		100	82-123		9.83	30	
1,1-Dichloroethane	9.51		"	10.0		95.1	82-129		2.34	30	
1,1-Dichloroethylene	10.1		"	10.0		101	68-138		2.00	30	
1,2,3-Trichlorobenzene	13.4		"	10.0		134	76-136		21.4	30	
1,2,3-Trichloropropane	9.68		"	10.0		96.8	77-128		9.86	30	
1,2,4-Trichlorobenzene	11.6		"	10.0		116	76-137		9.57	30	
1,2,4-Trimethylbenzene	9.25		"	10.0		92.5	82-132		3.92	30	
1,2-Dibromo-3-chloropropane	9.57		"	10.0		95.7	45-147		14.3	30	
1,2-Dibromoethane	10.3		"	10.0		103	83-124		11.0	30	
1,2-Dichlorobenzene	9.39		"	10.0		93.9	79-123		3.47	30	
1,2-Dichloroethane	10.2		"	10.0		102	73-132		6.98	30	
1,2-Dichloropropane	9.31		"	10.0		93.1	78-126		2.61	30	
1,3,5-Trimethylbenzene	8.92		"	10.0		89.2	80-131		3.85	30	
1,3-Dichlorobenzene	9.23		"	10.0		92.3	86-122		0.652	30	
1,4-Dichlorobenzene	9.21		"	10.0		92.1	85-124		0.763	30	
1,4-Dioxane	181		"	210		86.2	10-349		16.3	30	
2-Butanone	10.6		"	10.0		106	49-152		12.5	30	
2-Hexanone	11.1		"	10.0		111	51-146		19.4	30	
4-Methyl-2-pentanone	11.3		"	10.0		113	57-145		16.3	30	
Acetone	8.50		"	10.0		85.0	14-150		18.6	30	
Acrolein	15.8		"	10.0		158	10-153	High Bias	12.0	30	
Acrylonitrile	12.3		"	10.0		123	51-150		14.6	30	
Benzene	10.2		"	10.0		102	85-126		1.49	30	
Bromochloromethane	10.3		"	10.0		103	77-128		6.83	30	
Bromodichloromethane	9.63		"	10.0		96.3	79-128		3.92	30	
Bromoform	11.7		"	10.0		117	78-133		13.3	30	
Bromomethane	9.41		"	10.0		94.1	43-168		4.57	30	
Carbon disulfide	10.9		"	10.0		109	68-146		0.643	30	
Carbon tetrachloride	10.2		"	10.0		102	77-141		1.89	30	
Chlorobenzene	9.39		"	10.0		93.9	88-120		1.72	30	
Chloroethane	10.2		"	10.0		102	65-136		0.197	30	
Chloroform	9.87		"	10.0		98.7	82-128		3.30	30	
Chloromethane	9.89		"	10.0		98.9	43-155		0.404	30	
cis-1,2-Dichloroethylene	10.0		"	10.0		100	83-129		1.68	30	
cis-1,3-Dichloropropylene	9.61		"	10.0		96.1	80-131		3.71	30	
Cyclohexane	10.6		"	10.0		106	63-149		2.50	30	
Dibromochloromethane	10.5		"	10.0		105	80-130		9.41	30	
Dibromomethane	9.60		"	10.0		96.0	72-134		7.90	30	
Dichlorodifluoromethane	11.8		"	10.0		118	44-144		2.06	30	
Ethyl Benzene	9.40		"	10.0		94.0	80-131		0.320	30	
Hexachlorobutadiene	10.4		"	10.0		104	67-146		0.383	30	
Isopropylbenzene	8.53		"	10.0		85.3	76-140		4.02	30	
Methyl acetate	15.0		"	10.0		150	51-139	High Bias	13.6	30	
Methyl tert-butyl ether (MTBE)	11.0		"	10.0		110	76-135		13.2	30	
Methylcyclohexane	9.45		"	10.0		94.5	72-143		0.00	30	
Methylene chloride	9.48		"	10.0		94.8	55-137		4.09	30	
n-Butylbenzene	9.55		"	10.0		95.5	79-132		2.48	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50272 - EPA 5030B											
LCS Dup (BC50272-BSD1) LCS Dup								Prepared & Analyzed: 03/05/2025			
n-Propylbenzene	8.69		ug/L	10.0		86.9	78-133		3.06	30	
o-Xylene	9.42		"	10.0		94.2	78-130		0.960	30	
p- & m- Xylenes	18.6		"	20.0		93.0	77-133		0.647	30	
p-Isopropyltoluene	9.37		"	10.0		93.7	81-136		3.67	30	
sec-Butylbenzene	8.82		"	10.0		88.2	79-137		3.89	30	
Styrene	10.2		"	10.0		102	67-132		3.30	30	
tert-Butyl alcohol (TBA)	73.8		"	50.0		148	25-162		22.1	30	
tert-Butylbenzene	8.79		"	10.0		87.9	77-138		3.47	30	
Tetrachloroethylene	5.99		"	10.0		59.9	82-131	Low Bias	0.500	30	
Toluene	9.11		"	10.0		91.1	80-127		0.329	30	
trans-1,2-Dichloroethylene	9.72		"	10.0		97.2	80-132		1.03	30	
trans-1,3-Dichloropropylene	10.3		"	10.0		103	78-131		7.85	30	
Trichloroethylene	8.89		"	10.0		88.9	82-128		0.225	30	
Trichlorofluoromethane	10.3		"	10.0		103	67-139		1.76	30	
Vinyl Chloride	10.4		"	10.0		104	58-145		1.55	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.38*		*"*	*10.0*		*93.8*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.39*		*"*	*10.0*		*93.9*	*79-122*				
Batch BC50352 - EPA 5030B											
Blank (BC50352-BLK1) Blank								Prepared & Analyzed: 03/05/2025			
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50352 - EPA 5030B											
Blank (BC50352-BLK1) Blank								Prepared & Analyzed: 03/05/2025			
Bromoform	ND	0.500	ug/L								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.85*		*"*	*10.0*		*98.5*	*70-130*				
Surrogate: SURR: Toluene-d8	*9.59*		*"*	*10.0*		*95.9*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.68*		*"*	*10.0*		*96.8*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50352 - EPA 5030B											
LCS (BC50352-BS1) LCS							Prepared & Analyzed: 03/05/2025				
1,1,1,2-Tetrachloroethane	9.15		ug/L	10.0		91.5	82-126				
1,1,1-Trichloroethane	9.36		"	10.0		93.6	78-130				
1,1,2,2-Tetrachloroethane	8.73		"	10.0		87.3	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6		"	10.0		106	70-130				
1,1,2-Trichloroethane	8.56		"	10.0		85.6	82-123				
1,1-Dichloroethane	9.02		"	10.0		90.2	82-129				
1,1-Dichloroethylene	9.54		"	10.0		95.4	70-130				
1,2,3-Trichlorobenzene	8.72		"	10.0		87.2	76-130				
1,2,3-Trichloropropane	8.49		"	10.0		84.9	77-128				
1,2,4-Trichlorobenzene	8.98		"	10.0		89.8	76-130				
1,2,4-Trimethylbenzene	8.95		"	10.0		89.5	82-132				
1,2-Dibromo-3-chloropropane	7.66		"	10.0		76.6	45-147				
1,2-Dibromoethane	8.74		"	10.0		87.4	83-124				
1,2-Dichlorobenzene	8.44		"	10.0		84.4	79-123				
1,2-Dichloroethane	8.88		"	10.0		88.8	73-130				
1,2-Dichloropropane	8.80		"	10.0		88.0	78-126				
1,3,5-Trimethylbenzene	8.82		"	10.0		88.2	80-131				
1,3-Dichlorobenzene	8.55		"	10.0		85.5	86-122	Low Bias			
1,4-Dichlorobenzene	8.53		"	10.0		85.3	85-124				
1,4-Dioxane	141		"	210		66.9	40-160				
2-Butanone	8.25		"	10.0		82.5	49-152				
2-Hexanone	8.27		"	10.0		82.7	51-146				
4-Methyl-2-pentanone	8.86		"	10.0		88.6	57-145				
Acetone	6.41		"	10.0		64.1	40-150				
Acrolein	13.0		"	10.0		130	10-153				
Acrylonitrile	10.0		"	10.0		100	51-150				
Benzene	9.60		"	10.0		96.0	85-126				
Bromochloromethane	9.07		"	10.0		90.7	77-128				
Bromodichloromethane	8.96		"	10.0		89.6	79-128				
Bromoform	9.43		"	10.0		94.3	78-130				
Bromomethane	9.46		"	10.0		94.6	43-160				
Carbon disulfide	10.2		"	10.0		102	68-146				
Carbon tetrachloride	9.72		"	10.0		97.2	77-130				
Chlorobenzene	8.89		"	10.0		88.9	88-120				
Chloroethane	9.50		"	10.0		95.0	65-136				
Chloroform	9.24		"	10.0		92.4	82-128				
Chloromethane	8.92		"	10.0		89.2	43-155				
cis-1,2-Dichloroethylene	9.26		"	10.0		92.6	83-129				
cis-1,3-Dichloropropylene	8.82		"	10.0		88.2	80-130				
Cyclohexane	9.95		"	10.0		99.5	70-130				
Dibromochloromethane	9.02		"	10.0		90.2	80-130				
Dibromomethane	8.42		"	10.0		84.2	72-134				
Dichlorodifluoromethane	10.1		"	10.0		101	44-144				
Ethyl Benzene	9.10		"	10.0		91.0	80-130				
Hexachlorobutadiene	9.10		"	10.0		91.0	67-146				
Isopropylbenzene	8.82		"	10.0		88.2	76-130				
Methyl acetate	11.8		"	10.0		118	70-130				
Methyl tert-butyl ether (MTBE)	8.73		"	10.0		87.3	76-130				
Methylcyclohexane	9.07		"	10.0		90.7	72-130				
Methylene chloride	8.75		"	10.0		87.5	70-130				
n-Butylbenzene	8.81		"	10.0		88.1	79-132				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50352 - EPA 5030B											
LCS (BC50352-BS1) LCS							Prepared & Analyzed: 03/05/2025				
n-Propylbenzene	8.75		ug/L	10.0		87.5	78-133				
o-Xylene	8.90		"	10.0		89.0	78-130				
p- & m- Xylenes	17.8		"	20.0		89.0	77-130				
p-Isopropyltoluene	9.07		"	10.0		90.7	81-136				
sec-Butylbenzene	8.64		"	10.0		86.4	79-137				
Styrene	9.33		"	10.0		93.3	70-130				
tert-Butyl alcohol (TBA)	51.2		"	50.0		102	25-162				
tert-Butylbenzene	8.68		"	10.0		86.8	77-138				
Tetrachloroethylene	5.80		"	10.0		58.0	82-130	Low Bias			
Toluene	8.81		"	10.0		88.1	80-127				
trans-1,2-Dichloroethylene	9.28		"	10.0		92.8	80-130				
trans-1,3-Dichloropropylene	8.97		"	10.0		89.7	78-130				
Trichloroethylene	8.67		"	10.0		86.7	82-128				
Trichlorofluoromethane	9.87		"	10.0		98.7	67-139				
Vinyl Chloride	9.61		"	10.0		96.1	70-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.36*		*"*	*10.0*		*93.6*	*70-130*				
Surrogate: SURR: Toluene-d8	*9.66*		*"*	*10.0*		*96.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.0*		*"*	*10.0*		*100*	*79-122*				
Batch BC50381 - EPA 5030B											
Blank (BC50381-BLK1) Blank							Prepared & Analyzed: 03/06/2025				
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50381 - EPA 5030B											
Blank (BC50381-BLK1) Blank							Prepared & Analyzed: 03/06/2025				
Bromoform	ND	0.500	ug/L								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.24*		*"*	*10.0*		*92.4*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.31*		*"*	*10.0*		*93.1*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.16*		*"*	*10.0*		*91.6*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50381 - EPA 5030B											
LCS (BC50381-BS1) LCS							Prepared & Analyzed: 03/06/2025				
1,1,1,2-Tetrachloroethane	10.1		ug/L	10.0		101	82-126				
1,1,1-Trichloroethane	9.76		"	10.0		97.6	78-136				
1,1,2,2-Tetrachloroethane	10.1		"	10.0		101	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.2		"	10.0		122	54-165				
1,1,2-Trichloroethane	9.48		"	10.0		94.8	82-123				
1,1-Dichloroethane	9.79		"	10.0		97.9	82-129				
1,1-Dichloroethylene	10.2		"	10.0		102	68-138				
1,2,3-Trichlorobenzene	12.3		"	10.0		123	76-136				
1,2,3-Trichloropropane	9.02		"	10.0		90.2	77-128				
1,2,4-Trichlorobenzene	11.9		"	10.0		119	76-137				
1,2,4-Trimethylbenzene	9.93		"	10.0		99.3	82-132				
1,2-Dibromo-3-chloropropane	9.40		"	10.0		94.0	45-147				
1,2-Dibromoethane	9.81		"	10.0		98.1	83-124				
1,2-Dichlorobenzene	9.75		"	10.0		97.5	79-123				
1,2-Dichloroethane	9.37		"	10.0		93.7	73-132				
1,2-Dichloropropane	8.84		"	10.0		88.4	78-126				
1,3,5-Trimethylbenzene	9.76		"	10.0		97.6	80-131				
1,3-Dichlorobenzene	9.89		"	10.0		98.9	86-122				
1,4-Dichlorobenzene	9.92		"	10.0		99.2	85-124				
1,4-Dioxane	195		"	210		93.1	10-349				
2-Butanone	10.9		"	10.0		109	49-152				
2-Hexanone	8.38		"	10.0		83.8	51-146				
4-Methyl-2-pentanone	8.46		"	10.0		84.6	57-145				
Acetone	7.40		"	10.0		74.0	14-150				
Acrolein	20.4		"	10.0		204	10-153	High Bias			
Acrylonitrile	10.2		"	10.0		102	51-150				
Benzene	10.9		"	10.0		109	85-126				
Bromochloromethane	9.48		"	10.0		94.8	77-128				
Bromodichloromethane	9.17		"	10.0		91.7	79-128				
Bromoform	9.98		"	10.0		99.8	78-133				
Bromomethane	5.53		"	10.0		55.3	43-168				
Carbon disulfide	12.4		"	10.0		124	68-146				
Carbon tetrachloride	10.5		"	10.0		105	77-141				
Chlorobenzene	9.79		"	10.0		97.9	88-120				
Chloroethane	8.94		"	10.0		89.4	65-136				
Chloroform	9.92		"	10.0		99.2	82-128				
Chloromethane	7.70		"	10.0		77.0	43-155				
cis-1,2-Dichloroethylene	10.1		"	10.0		101	83-129				
cis-1,3-Dichloropropylene	9.57		"	10.0		95.7	80-131				
Cyclohexane	10.7		"	10.0		107	63-149				
Dibromochloromethane	10.4		"	10.0		104	80-130				
Dibromomethane	8.97		"	10.0		89.7	72-134				
Dichlorodifluoromethane	12.4		"	10.0		124	44-144				
Ethyl Benzene	9.77		"	10.0		97.7	80-131				
Hexachlorobutadiene	12.5		"	10.0		125	67-146				
Isopropylbenzene	9.86		"	10.0		98.6	76-140				
Methyl acetate	11.8		"	10.0		118	51-139				
Methyl tert-butyl ether (MTBE)	10.3		"	10.0		103	76-135				
Methylcyclohexane	10.1		"	10.0		101	72-143				
Methylene chloride	9.44		"	10.0		94.4	55-137				
n-Butylbenzene	9.72		"	10.0		97.2	79-132				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50381 - EPA 5030B											
LCS (BC50381-BS1) LCS							Prepared & Analyzed: 03/06/2025				
n-Propylbenzene	9.63		ug/L	10.0		96.3	78-133				
o-Xylene	9.50		"	10.0		95.0	78-130				
p- & m- Xylenes	17.0		"	20.0		84.8	77-133				
p-Isopropyltoluene	10.4		"	10.0		104	81-136				
sec-Butylbenzene	10.1		"	10.0		101	79-137				
Styrene	10.5		"	10.0		105	67-132				
tert-Butyl alcohol (TBA)	55.0		"	50.0		110	25-162				
tert-Butylbenzene	9.91		"	10.0		99.1	77-138				
Tetrachloroethylene	5.51		"	10.0		55.1	82-131	Low Bias			
Toluene	9.55		"	10.0		95.5	80-127				
trans-1,2-Dichloroethylene	10.1		"	10.0		101	80-132				
trans-1,3-Dichloropropylene	9.48		"	10.0		94.8	78-131				
Trichloroethylene	8.77		"	10.0		87.7	82-128				
Trichlorofluoromethane	8.64		"	10.0		86.4	67-139				
Vinyl Chloride	8.92		"	10.0		89.2	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.02*		*"*	*10.0*		*90.2*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.29*		*"*	*10.0*		*92.9*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.28*		*"*	*10.0*		*92.8*	*79-122*				
Matrix Spike (BC50381-MS1) Matrix Spike *Source sample: 25C0154-01 (TMW20_030425)							Prepared & Analyzed: 03/06/2025				
1,1,1,2-Tetrachloroethane	10.0		ug/L	10.0	0.00	100	45-161				
1,1,1-Trichloroethane	10.4		"	10.0	0.00	104	70-146				
1,1,2,2-Tetrachloroethane	10.2		"	10.0	0.00	102	74-121				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.2		"	10.0	0.00	122	21-217				
1,1,2-Trichloroethane	9.81		"	10.0	0.00	98.1	59-146				
1,1-Dichloroethane	10.3		"	10.0	0.00	103	54-146				
1,1-Dichloroethylene	11.3		"	10.0	0.00	113	44-165				
1,2,3-Trichlorobenzene	10.7		"	10.0	0.00	107	40-161				
1,2,3-Trichloropropane	9.02		"	10.0	0.00	90.2	74-127				
1,2,4-Trichlorobenzene	10.4		"	10.0	0.00	104	41-161				
1,2,4-Trimethylbenzene	9.63		"	10.0	0.00	96.3	72-129				
1,2-Dibromo-3-chloropropane	9.12		"	10.0	0.00	91.2	31-151				
1,2-Dibromoethane	9.93		"	10.0	0.00	99.3	75-125				
1,2-Dichlorobenzene	9.45		"	10.0	0.00	94.5	63-122				
1,2-Dichloroethane	9.67		"	10.0	0.00	96.7	68-131				
1,2-Dichloropropane	8.90		"	10.0	0.00	89.0	77-121				
1,3,5-Trimethylbenzene	9.51		"	10.0	0.00	95.1	69-126				
1,3-Dichlorobenzene	9.46		"	10.0	0.00	94.6	74-119				
1,4-Dichlorobenzene	9.35		"	10.0	0.00	93.5	70-124				
1,4-Dioxane	199		"	210	2.17	93.9	10-310				
2-Butanone	11.9		"	10.0	0.470	114	10-193				
2-Hexanone	8.48		"	10.0	0.00	84.8	53-133				
4-Methyl-2-pentanone	8.65		"	10.0	0.00	86.5	38-150				
Acetone	15.3		"	10.0	3.68	117	13-149				
Acrolein	20.2		"	10.0	0.00	202	10-195	High Bias			
Acrylonitrile	10.5		"	10.0	0.00	105	37-165				
Benzene	11.2		"	10.0	0.00	112	38-155				
Bromochloromethane	9.73		"	10.0	0.00	97.3	75-121				
Bromodichloromethane	9.20		"	10.0	0.00	92.0	70-129				
Bromoform	9.96		"	10.0	0.00	99.6	66-136				
Bromomethane	5.27		"	10.0	0.00	52.7	30-158				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50381 - EPA 5030B											
Matrix Spike (BC50381-MS1) Matrix Spike	*Source sample: 25C0154-01 (TMW20_030425)							Prepared & Analyzed: 03/06/2025			
Carbon disulfide	13.2		ug/L	10.0	0.00	132	10-138				
Carbon tetrachloride	11.3		"	10.0	0.00	113	71-146				
Chlorobenzene	9.81		"	10.0	0.00	98.1	81-117				
Chloroethane	10.5		"	10.0	0.00	105	51-145				
Chloroform	10.2		"	10.0	0.00	102	80-124				
Chloromethane	9.28		"	10.0	0.00	92.8	16-163				
cis-1,2-Dichloroethylene	9.90		"	10.0	0.00	99.0	76-125				
cis-1,3-Dichloropropylene	8.86		"	10.0	0.00	88.6	58-131				
Cyclohexane	11.3		"	10.0	0.00	113	70-130				
Dibromochloromethane	10.4		"	10.0	0.00	104	71-129				
Dibromomethane	9.15		"	10.0	0.00	91.5	76-120				
Dichlorodifluoromethane	16.6		"	10.0	0.00	166	30-147	High Bias			
Ethyl Benzene	9.90		"	10.0	0.00	99.0	72-128				
Hexachlorobutadiene	10.4		"	10.0	0.00	104	34-166				
Isopropylbenzene	9.85		"	10.0	0.00	98.5	66-139				
Methyl acetate	11.3		"	10.0	0.00	113	10-200				
Methyl tert-butyl ether (MTBE)	10.5		"	10.0	0.210	103	75-128				
Methylcyclohexane	9.81		"	10.0	0.00	98.1	70-130				
Methylene chloride	9.80		"	10.0	0.00	98.0	57-128				
n-Butylbenzene	8.90		"	10.0	0.00	89.0	61-138				
n-Propylbenzene	9.41		"	10.0	0.00	94.1	66-134				
o-Xylene	9.55		"	10.0	0.00	95.5	69-126				
p- & m- Xylenes	17.1		"	20.0	0.00	85.6	67-130				
p-Isopropyltoluene	9.88		"	10.0	0.00	98.8	64-137				
sec-Butylbenzene	9.84		"	10.0	0.00	98.4	53-155				
Styrene	10.1		"	10.0	0.00	101	69-125				
tert-Butyl alcohol (TBA)	51.7		"	50.0	0.00	103	10-130				
tert-Butylbenzene	9.89		"	10.0	0.00	98.9	65-139				
Tetrachloroethylene	5.45		"	10.0	0.00	54.5	64-139	Low Bias			
Toluene	9.72		"	10.0	0.00	97.2	76-123				
trans-1,2-Dichloroethylene	10.5		"	10.0	0.00	105	79-131				
trans-1,3-Dichloropropylene	8.76		"	10.0	0.00	87.6	55-130				
Trichloroethylene	8.95		"	10.0	0.00	89.5	53-145				
Trichlorofluoromethane	10.0		"	10.0	0.00	100	61-142				
Vinyl Chloride	10.7		"	10.0	0.00	107	31-165				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.26*		*"*	*10.0*		*92.6*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.26*		*"*	*10.0*		*92.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.20*		*"*	*10.0*		*92.0*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50381 - EPA 5030B											
Matrix Spike Dup (BC50381-! Matrix Spike Dup *Source sample: 25C0154-01 (TMW20_030425)								Prepared & Analyzed: 03/06/2025			
1,1,1,2-Tetrachloroethane	9.43		ug/L	10.0	0.00	94.3	45-161		6.37	30	
1,1,1-Trichloroethane	9.97		"	10.0	0.00	99.7	70-146		4.22	30	
1,1,2,2-Tetrachloroethane	9.51		"	10.0	0.00	95.1	74-121		6.61	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.3		"	10.0	0.00	123	21-217		0.733	30	
1,1,2-Trichloroethane	8.90		"	10.0	0.00	89.0	59-146		9.73	30	
1,1-Dichloroethane	9.63		"	10.0	0.00	96.3	54-146		6.33	30	
1,1-Dichloroethylene	10.7		"	10.0	0.00	107	44-165		5.65	30	
1,2,3-Trichlorobenzene	10.3		"	10.0	0.00	103	40-161		4.29	30	
1,2,3-Trichloropropane	8.58		"	10.0	0.00	85.8	74-127		5.00	30	
1,2,4-Trichlorobenzene	9.89		"	10.0	0.00	98.9	41-161		4.83	30	
1,2,4-Trimethylbenzene	9.08		"	10.0	0.00	90.8	72-129		5.88	30	
1,2-Dibromo-3-chloropropane	8.74		"	10.0	0.00	87.4	31-151		4.26	30	
1,2-Dibromoethane	9.26		"	10.0	0.00	92.6	75-125		6.98	30	
1,2-Dichlorobenzene	8.89		"	10.0	0.00	88.9	63-122		6.11	30	
1,2-Dichloroethane	9.11		"	10.0	0.00	91.1	68-131		5.96	30	
1,2-Dichloropropane	8.27		"	10.0	0.00	82.7	77-121		7.34	30	
1,3,5-Trimethylbenzene	8.75		"	10.0	0.00	87.5	69-126		8.32	30	
1,3-Dichlorobenzene	8.87		"	10.0	0.00	88.7	74-119		6.44	30	
1,4-Dichlorobenzene	9.00		"	10.0	0.00	90.0	70-124		3.81	30	
1,4-Dioxane	183		"	210	2.17	86.2	10-310		8.47	30	
2-Butanone	11.0		"	10.0	0.470	105	10-193		8.21	30	
2-Hexanone	7.86		"	10.0	0.00	78.6	53-133		7.59	30	
4-Methyl-2-pentanone	8.02		"	10.0	0.00	80.2	38-150		7.56	30	
Acetone	12.3		"	10.0	3.68	86.0	13-149		22.2	30	
Acrolein	18.7		"	10.0	0.00	187	10-195		7.87	30	
Acrylonitrile	9.78		"	10.0	0.00	97.8	37-165		7.10	30	
Benzene	10.6		"	10.0	0.00	106	38-155		5.58	30	
Bromochloromethane	9.11		"	10.0	0.00	91.1	75-121		6.58	30	
Bromodichloromethane	8.72		"	10.0	0.00	87.2	70-129		5.36	30	
Bromoform	9.54		"	10.0	0.00	95.4	66-136		4.31	30	
Bromomethane	6.50		"	10.0	0.00	65.0	30-158		20.9	30	
Carbon disulfide	12.5		"	10.0	0.00	125	10-138		5.13	30	
Carbon tetrachloride	10.9		"	10.0	0.00	109	71-146		3.69	30	
Chlorobenzene	9.13		"	10.0	0.00	91.3	81-117		7.18	30	
Chloroethane	9.99		"	10.0	0.00	99.9	51-145		4.79	30	
Chloroform	9.63		"	10.0	0.00	96.3	80-124		5.85	30	
Chloromethane	9.10		"	10.0	0.00	91.0	16-163		1.96	30	
cis-1,2-Dichloroethylene	9.31		"	10.0	0.00	93.1	76-125		6.14	30	
cis-1,3-Dichloropropylene	8.33		"	10.0	0.00	83.3	58-131		6.17	30	
Cyclohexane	10.8		"	10.0	0.00	108	70-130		4.07	30	
Dibromochloromethane	9.85		"	10.0	0.00	98.5	71-129		5.53	30	
Dibromomethane	8.50		"	10.0	0.00	85.0	76-120		7.37	30	
Dichlorodifluoromethane	16.5		"	10.0	0.00	165	30-147	High Bias	0.603	30	
Ethyl Benzene	9.21		"	10.0	0.00	92.1	72-128		7.22	30	
Hexachlorobutadiene	9.85		"	10.0	0.00	98.5	34-166		5.72	30	
Isopropylbenzene	9.24		"	10.0	0.00	92.4	66-139		6.39	30	
Methyl acetate	10.4		"	10.0	0.00	104	10-200		8.30	30	
Methyl tert-butyl ether (MTBE)	9.91		"	10.0	0.210	97.0	75-128		5.50	30	
Methylcyclohexane	9.28		"	10.0	0.00	92.8	70-130		5.55	30	
Methylene chloride	9.11		"	10.0	0.00	91.1	57-128		7.30	30	
n-Butylbenzene	8.16		"	10.0	0.00	81.6	61-138		8.68	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50381 - EPA 5030B											
Matrix Spike Dup (BC50381-! Matrix Spike Dup			*Source sample: 25C0154-01 (TMW20_030425)					Prepared & Analyzed: 03/06/2025			
n-Propylbenzene	8.76		ug/L	10.0	0.00	87.6	66-134		7.15	30	
o-Xylene	8.97		"	10.0	0.00	89.7	69-126		6.26	30	
p- & m- Xylenes	15.8		"	20.0	0.00	78.8	67-130		8.21	30	
p-Isopropyltoluene	9.05		"	10.0	0.00	90.5	64-137		8.77	30	
sec-Butylbenzene	9.05		"	10.0	0.00	90.5	53-155		8.36	30	
Styrene	9.41		"	10.0	0.00	94.1	69-125		7.17	30	
tert-Butyl alcohol (TBA)	48.5		"	50.0	0.00	96.9	10-130		6.55	30	
tert-Butylbenzene	9.24		"	10.0	0.00	92.4	65-139		6.80	30	
Tetrachloroethylene	5.13		"	10.0	0.00	51.3	64-139	Low Bias	6.05	30	
Toluene	8.97		"	10.0	0.00	89.7	76-123		8.03	30	
trans-1,2-Dichloroethylene	9.91		"	10.0	0.00	99.1	79-131		5.69	30	
trans-1,3-Dichloropropylene	8.28		"	10.0	0.00	82.8	55-130		5.63	30	
Trichloroethylene	8.40		"	10.0	0.00	84.0	53-145		6.34	30	
Trichlorofluoromethane	9.81		"	10.0	0.00	98.1	61-142		2.32	30	
Vinyl Chloride	10.2		"	10.0	0.00	102	31-165		5.08	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.28*		*"*	*10.0*		*92.8*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.29*		*"*	*10.0*		*92.9*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.29*		*"*	*10.0*		*92.9*	*79-122*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50638 - EPA 3510C											
Blank (BC50638-BLK1) Blank									Prepared & Analyzed: 03/10/2025		
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Diphenylamine	ND	5.00	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Isophorone	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Phenol	ND	5.00	"								
Pyridine	ND	5.00	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50638 - EPA 3510C											
Blank (BC50638-BLK1) Blank								Prepared & Analyzed: 03/10/2025			
Surrogate: SURR: 2-Fluorophenol	*11.6*		*ug/L*	*50.0*		*23.2*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*7.16*		*"*	*50.0*		*14.3*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*11.0*		*"*	*25.0*		*44.0*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*10.3*		*"*	*25.0*		*41.3*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*25.3*		*"*	*50.0*		*50.5*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*16.3*		*"*	*25.0*		*65.2*	*30.7-106*				
LCS (BC50638-BS1) LCS								Prepared & Analyzed: 03/10/2025			
1,1-Biphenyl	10.7	5.00	ug/L	25.0		42.6	33-95				
1,2,4,5-Tetrachlorobenzene	8.96	5.00	"	25.0		35.8	26-120				
1,2-Diphenylhydrazine (as Azobenzene)	11.5	5.00	"	25.0		45.9	16-141				
2,3,4,6-Tetrachlorophenol	12.3	5.00	"	25.0		49.4	30-130				
2,4,5-Trichlorophenol	9.94	5.00	"	25.0		39.8	32-114				
2,4,6-Trichlorophenol	11.1	5.00	"	25.0		44.4	35-118				
2,4-Dichlorophenol	11.5	5.00	"	25.0		46.0	25-116				
2,4-Dimethylphenol	12.0	5.00	"	25.0		47.9	15-116				
2,4-Dinitrophenol	2.86	5.00	"	25.0		11.4	10-170				
2,4-Dinitrotoluene	12.0	5.00	"	25.0		48.1	41-128				
2,6-Dinitrotoluene	11.5	5.00	"	25.0		46.2	45-116				
2-Chloronaphthalene	10.4	5.00	"	25.0		41.8	33-112				
2-Chlorophenol	9.99	5.00	"	25.0		40.0	15-120				
2-Methylnaphthalene	10.1	5.00	"	25.0		40.6	24-118				
2-Methylphenol	8.78	5.00	"	25.0		35.1	10-110				
2-Nitroaniline	11.4	5.00	"	25.0		45.6	34-129				
2-Nitrophenol	11.3	5.00	"	25.0		45.4	28-118				
3- & 4-Methylphenols	6.77	5.00	"	25.0		27.1	10-107				
3,3-Dichlorobenzidine	8.10	5.00	"	25.0		32.4	15-187				
3-Nitroaniline	8.65	5.00	"	25.0		34.6	24-134				
4,6-Dinitro-2-methylphenol	12.7	5.00	"	25.0		50.8	10-153				
4-Bromophenyl phenyl ether	10.5	5.00	"	25.0		42.1	34-120				
4-Chloro-3-methylphenol	11.7	5.00	"	25.0		46.7	20-120				
4-Chloroaniline	7.87	5.00	"	25.0		31.5	10-147				
4-Chlorophenyl phenyl ether	11.0	5.00	"	25.0		44.0	27-121				
4-Nitroaniline	9.35	5.00	"	25.0		37.4	13-134				
4-Nitrophenol	ND	5.00	"	25.0			10-131	Low Bias			
Acetophenone	10.4	5.00	"	25.0		41.5	25-110				
Aniline	7.97	5.00	"	25.0		31.9	10-117				
Benzaldehyde	10.9	5.00	"	25.0		43.4	29-117				
Benzoic acid	3.69	5.00	"	25.0		14.8	30-130	Low Bias			
Benzyl alcohol	8.39	5.00	"	25.0		33.6	10-117				
Benzyl butyl phthalate	12.8	5.00	"	25.0		51.2	29-133				
Bis(2-chloroethoxy)methane	11.0	5.00	"	25.0		44.0	10-154				
Bis(2-chloroethyl)ether	9.28	5.00	"	25.0		37.1	17-125				
Bis(2-chloroisopropyl)ether	8.83	5.00	"	25.0		35.3	10-139				
Caprolactam	2.51	5.00	"	25.0		10.0	10-137				
Carbazole	11.7	5.00	"	25.0		46.8	42-126				
Dibenzofuran	10.8	5.00	"	25.0		43.4	36-113				
Diethyl phthalate	12.3	5.00	"	25.0		49.2	38-115				
Dimethyl phthalate	12.1	5.00	"	25.0		48.6	38-129				
Di-n-butyl phthalate	13.4	5.00	"	25.0		53.6	31-120				
Di-n-octyl phthalate	13.2	5.00	"	25.0		52.9	21-149				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50638 - EPA 3510C											
LCS (BC50638-BS1) LCS							Prepared & Analyzed: 03/10/2025				
Diphenylamine	12.3	5.00	ug/L	25.0		49.1	40-140				
Hexachlorocyclopentadiene	8.68	10.0	"	25.0		34.7	10-130				
Isophorone	12.2	5.00	"	25.0		48.9	25-127				
N-nitroso-di-n-propylamine	10.7	5.00	"	25.0		42.6	26-122				
N-Nitrosodiphenylamine	11.9	5.00	"	25.0		47.6	23-149				
Phenol	3.74	5.00	"	25.0		15.0	10-110				
Pyridine	ND	5.00	"	35.0			10-90	Low Bias			
Surrogate: SURR: 2-Fluorophenol	*12.9*		*"*	*50.0*		*25.7*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*7.09*		*"*	*50.0*		*14.2*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*11.1*		*"*	*25.0*		*44.4*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*10.0*		*"*	*25.0*		*40.0*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*22.4*		*"*	*50.0*		*44.7*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*12.6*		*"*	*25.0*		*50.5*	*30.7-106*				
Batch BC50640 - EPA 3510C											
Blank (BC50640-BLK2) Blank							Prepared & Analyzed: 03/10/2025				
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50640 - EPA 3510C											
LCS (BC50640-BS2) LCS							Prepared & Analyzed: 03/10/2025				
Acenaphthene	0.490	0.0500	ug/L	0.625		78.4	25-116				
Acenaphthylene	0.600	0.0500	"	0.625		96.0	26-116				
Anthracene	0.600	0.0500	"	0.625		96.0	25-123				
Benzo(a)anthracene	0.640	0.0500	"	0.625		102	33-125				
Benzo(a)pyrene	0.570	0.0500	"	0.625		91.2	32-132				
Benzo(b)fluoranthene	0.550	0.0500	"	0.625		88.0	22-137				
Benzo(g,h,i)perylene	0.880	0.0500	"	0.625		141	10-138	High Bias			
Benzo(k)fluoranthene	0.590	0.0500	"	0.625		94.4	20-137				
Bis(2-ethylhexyl)phthalate	0.840	0.500	"	0.625		134	10-189				
Chrysene	0.660	0.0500	"	0.625		106	32-124				
Dibenzo(a,h)anthracene	0.830	0.0500	"	0.625		133	16-133				
Fluoranthene	0.650	0.0500	"	0.625		104	32-121				
Fluorene	0.580	0.0500	"	0.625		92.8	28-118				
Hexachlorobenzene	0.630	0.0200	"	0.625		101	23-124				
Hexachlorobutadiene	ND	0.500	"	0.625			15-123	Low Bias			
Hexachloroethane	1.89	0.500	"	0.625		302	18-115	High Bias			
Indeno(1,2,3-cd)pyrene	0.830	0.0500	"	0.625		133	15-135				
Naphthalene	0.470	0.0500	"	0.625		75.2	18-120				
Nitrobenzene	0.300	0.250	"	0.625		48.0	21-121				
N-Nitrosodimethylamine	ND	0.500	"	0.625			10-124	Low Bias			
Pentachlorophenol	0.250	0.250	"	0.625		40.0	10-156				
Phenanthrene	0.550	0.0500	"	0.625		88.0	24-127				
Pyrene	0.590	0.0500	"	0.625		94.4	31-132				
Batch BC50750 - EPA 3510C											
Blank (BC50750-BLK1) Blank							Prepared & Analyzed: 03/11/2025				
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50750 - EPA 3510C											
Blank (BC50750-BLK1) Blank								Prepared & Analyzed: 03/11/2025			
4-Chlorophenyl phenyl ether	ND	5.00	ug/L								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Diphenylamine	ND	5.00	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Isophorone	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Phenol	ND	5.00	"								
Pyridine	ND	5.00	"								
Surrogate: SURR: 2-Fluorophenol	*17.0*		*"*	*50.0*		*34.1*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*9.63*		*"*	*50.0*		*19.3*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*15.0*		*"*	*25.0*		*60.0*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*15.8*		*"*	*25.0*		*63.1*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*35.1*		*"*	*50.0*		*70.1*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*22.5*		*"*	*25.0*		*90.0*	*30.7-106*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50750 - EPA 3510C											
LCS (BC50750-BS1) LCS							Prepared & Analyzed: 03/11/2025				
1,1-Biphenyl	15.8	5.00	ug/L	25.0		63.3	33-95				
1,2,4,5-Tetrachlorobenzene	13.1	5.00	"	25.0		52.4	26-120				
1,2-Diphenylhydrazine (as Azobenzene)	14.5	5.00	"	25.0		58.2	16-141				
2,3,4,6-Tetrachlorophenol	17.8	5.00	"	25.0		71.1	30-130				
2,4,5-Trichlorophenol	14.5	5.00	"	25.0		58.0	32-114				
2,4,6-Trichlorophenol	16.2	5.00	"	25.0		64.8	35-118				
2,4-Dichlorophenol	14.6	5.00	"	25.0		58.2	25-116				
2,4-Dimethylphenol	14.9	5.00	"	25.0		59.7	15-116				
2,4-Dinitrophenol	20.8	5.00	"	25.0		83.4	10-170				
2,4-Dinitrotoluene	18.2	5.00	"	25.0		73.0	41-128				
2,6-Dinitrotoluene	17.5	5.00	"	25.0		70.1	45-116				
2-Chloronaphthalene	15.4	5.00	"	25.0		61.5	33-112				
2-Chlorophenol	12.5	5.00	"	25.0		50.1	15-120				
2-Methylnaphthalene	13.8	5.00	"	25.0		55.3	24-118				
2-Methylphenol	11.4	5.00	"	25.0		45.8	10-110				
2-Nitroaniline	17.2	5.00	"	25.0		68.8	34-129				
2-Nitrophenol	13.8	5.00	"	25.0		55.4	28-118				
3- & 4-Methylphenols	9.52	5.00	"	25.0		38.1	10-107				
3,3-Dichlorobenzidine	13.5	5.00	"	25.0		54.0	15-187				
3-Nitroaniline	12.8	5.00	"	25.0		51.2	24-134				
4,6-Dinitro-2-methylphenol	21.2	5.00	"	25.0		84.9	10-153				
4-Bromophenyl phenyl ether	16.6	5.00	"	25.0		66.2	34-120				
4-Chloro-3-methylphenol	15.4	5.00	"	25.0		61.5	20-120				
4-Chloroaniline	10.7	5.00	"	25.0		42.8	10-147				
4-Chlorophenyl phenyl ether	16.8	5.00	"	25.0		67.1	27-121				
4-Nitroaniline	15.4	5.00	"	25.0		61.5	13-134				
4-Nitrophenol	ND	5.00	"	25.0			10-131	Low Bias			
Acetophenone	14.0	5.00	"	25.0		56.2	25-110				
Aniline	6.60	5.00	"	25.0		26.4	10-117				
Benzaldehyde	14.4	5.00	"	25.0		57.6	29-117				
Benzoic acid	3.55	5.00	"	25.0		14.2	30-130	Low Bias			
Benzyl alcohol	10.6	5.00	"	25.0		42.4	10-117				
Benzyl butyl phthalate	18.6	5.00	"	25.0		74.3	29-133				
Bis(2-chloroethoxy)methane	14.4	5.00	"	25.0		57.7	10-154				
Bis(2-chloroethyl)ether	13.1	5.00	"	25.0		52.4	17-125				
Bis(2-chloroisopropyl)ether	12.8	5.00	"	25.0		51.2	10-139				
Caprolactam	3.32	5.00	"	25.0		13.3	10-137				
Carbazole	16.6	5.00	"	25.0		66.5	42-126				
Dibenzofuran	16.4	5.00	"	25.0		65.8	36-113				
Diethyl phthalate	18.4	5.00	"	25.0		73.6	38-115				
Dimethyl phthalate	18.2	5.00	"	25.0		73.0	38-129				
Di-n-butyl phthalate	20.6	5.00	"	25.0		82.5	31-120				
Di-n-octyl phthalate	19.5	5.00	"	25.0		78.0	21-149				
Diphenylamine	18.9	5.00	"	25.0		75.6	40-140				
Hexachlorocyclopentadiene	12.7	10.0	"	25.0		50.7	10-130				
Isophorone	16.0	5.00	"	25.0		63.9	25-127				
N-nitroso-di-n-propylamine	14.8	5.00	"	25.0		59.0	26-122				
N-Nitrosodiphenylamine	18.3	5.00	"	25.0		73.3	23-149				
Phenol	ND	5.00	"	25.0			10-110	Low Bias			
Pyridine	4.93	5.00	"	35.0		14.1	10-90				
Surrogate: SURR: 2-Fluorophenol	*16.3*		*"*	*50.0*		*32.6*	*19.7-63.1*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50750 - EPA 3510C											
LCS (BC50750-BS1) LCS							Prepared & Analyzed: 03/11/2025				
Surrogate: SURR: Phenol-d6	*9.08*		*ug/L*	*50.0*		*18.2*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*14.2*		*"*	*25.0*		*56.9*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*15.0*		*"*	*25.0*		*60.0*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*36.6*		*"*	*50.0*		*73.2*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*18.4*		*"*	*25.0*		*73.7*	*30.7-106*				
Matrix Spike (BC50750-MS1) Matrix Spike *Source sample: 25C0154-01 (TMW20_030425)							Prepared & Analyzed: 03/11/2025				
1,1-Biphenyl	16.4	5.56	ug/L	27.8	ND	59.2	26-79				
1,2,4,5-Tetrachlorobenzene	14.2	5.56	"	27.8	ND	51.1	33-90				
1,2-Diphenylhydrazine (as Azobenzene)	14.6	5.56	"	27.8	ND	52.6	21-107				
2,3,4,6-Tetrachlorophenol	19.1	5.56	"	27.8	ND	68.8	30-130				
2,4,5-Trichlorophenol	15.4	5.56	"	27.8	ND	55.4	43-96				
2,4,6-Trichlorophenol	17.2	5.56	"	27.8	ND	61.9	46-94				
2,4-Dichlorophenol	16.3	5.56	"	27.8	ND	58.7	26-101				
2,4-Dimethylphenol	16.8	5.56	"	27.8	ND	60.6	10-104				
2,4-Dinitrophenol	20.0	5.56	"	27.8	ND	72.2	10-146				
2,4-Dinitrotoluene	17.6	5.56	"	27.8	ND	63.3	30-108				
2,6-Dinitrotoluene	17.0	5.56	"	27.8	ND	61.2	38-98				
2-Chloronaphthalene	16.2	5.56	"	27.8	ND	58.4	30-89				
2-Chlorophenol	15.3	5.56	"	27.8	ND	55.2	24-98				
2-Methylnaphthalene	15.1	5.56	"	27.8	ND	54.3	10-112				
2-Methylphenol	12.9	5.56	"	27.8	ND	46.5	10-134				
2-Nitroaniline	17.8	5.56	"	27.8	ND	63.9	25-110				
2-Nitrophenol	15.3	5.56	"	27.8	ND	55.2	10-139				
3- & 4-Methylphenols	10.5	5.56	"	27.8	ND	37.8	10-91				
3,3-Dichlorobenzidine	ND	5.56	"	27.8	ND		10-140	Low Bias			
3-Nitroaniline	11.5	5.56	"	27.8	ND	41.2	22-111				
4,6-Dinitro-2-methylphenol	22.1	5.56	"	27.8	ND	79.5	10-140				
4-Bromophenyl phenyl ether	16.4	5.56	"	27.8	ND	59.2	30-108				
4-Chloro-3-methylphenol	15.9	5.56	"	27.8	ND	57.3	11-109				
4-Chloroaniline	8.04	5.56	"	27.8	ND	29.0	10-116				
4-Chlorophenyl phenyl ether	16.5	5.56	"	27.8	ND	59.5	39-85				
4-Nitroaniline	13.3	5.56	"	27.8	ND	47.8	11-132				
4-Nitrophenol	ND	5.56	"	27.8	ND		10-82	Low Bias			
Acetophenone	15.1	5.56	"	27.8	ND	54.2	14-102				
Aniline	4.16	5.56	"	27.8	ND	15.0	10-80				
Benzaldehyde	15.7	5.56	"	27.8	ND	56.4	13-87				
Benzoic acid	6.89	5.56	"	27.8	ND	24.8	10-162				
Benzyl alcohol	12.1	5.56	"	27.8	ND	43.6	10-102				
Benzyl butyl phthalate	19.9	5.56	"	27.8	ND	71.5	10-133				
Bis(2-chloroethoxy)methane	15.5	5.56	"	27.8	ND	56.0	18-105				
Bis(2-chloroethyl)ether	14.7	5.56	"	27.8	ND	52.8	10-108				
Bis(2-chloroisopropyl)ether	14.3	5.56	"	27.8	ND	51.4	13-116				
Caprolactam	3.60	5.56	"	27.8	ND	13.0	10-75				
Carbazole	17.9	5.56	"	27.8	ND	64.6	36-108				
Dibenzofuran	16.8	5.56	"	27.8	ND	60.5	34-92				
Diethyl phthalate	17.5	5.56	"	27.8	ND	63.2	33-98				
Dimethyl phthalate	18.1	5.56	"	27.8	ND	65.3	18-116				
Di-n-butyl phthalate	20.8	5.56	"	27.8	ND	74.8	25-97				
Di-n-octyl phthalate	17.5	5.56	"	27.8	ND	63.2	10-137				
Diphenylamine	18.9	5.56	"	27.8	ND	68.1	40-140				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50750 - EPA 3510C											
Matrix Spike (BC50750-MS1) Matrix Spike	*Source sample: 25C0154-01 (TMW20_030425)						Prepared & Analyzed: 03/11/2025				
Hexachlorocyclopentadiene	13.8	11.1	ug/L	27.8	ND	49.6	10-79				
Isophorone	16.1	5.56	"	27.8	ND	57.8	25-103				
N-nitroso-di-n-propylamine	15.6	5.56	"	27.8	ND	56.0	19-115				
N-Nitrosodiphenylamine	18.1	5.56	"	27.8	ND	65.2	31-112				
Phenol	ND	5.56	"	27.8	ND		10-61	Low Bias			
Pyridine	2.92	5.56	"	38.9	ND	7.51	10-78	Low Bias			
Surrogate: SURR: 2-Fluorophenol	*20.8*		*"*	*55.6*		*37.5*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*11.7*		*"*	*55.6*		*21.0*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*16.1*		*"*	*27.8*		*58.1*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*16.2*		*"*	*27.8*		*58.2*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*38.3*		*"*	*55.6*		*68.9*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*21.4*		*"*	*27.8*		*77.1*	*30.7-106*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50497 - EPA 3535A											
Blank (BC50497-BLK1) Blank								Prepared: 03/07/2025 Analyzed: 03/08/2025			
1,4-Dioxane	ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8	*4.00*		*"*	*4.00*		*100*	*36.6-118*				
LCS (BC50497-BS1) LCS								Prepared: 03/07/2025 Analyzed: 03/08/2025			
1,4-Dioxane	2.85	0.300	ug/L	4.00		71.2	50-130				
Surrogate: 1,4-Dioxane-d8	*3.36*		*"*	*4.00*		*84.0*	*36.6-118*				
Matrix Spike (BC50497-MS1) Matrix Spike *Source sample: 25C0154-01 (TMW20_030425)								Prepared: 03/07/2025 Analyzed: 03/08/2025			
1,4-Dioxane	3.24	0.300	ug/L	4.00	ND	81.0	50-130				
Surrogate: 1,4-Dioxane-d8	*3.52*		*"*	*4.00*		*88.0*	*50-130*				
Matrix Spike Dup (BC50497-! Matrix Spike Dup *Source sample: 25C0154-01 (TMW20_030425)								Prepared: 03/07/2025 Analyzed: 03/08/2025			
1,4-Dioxane	3.84	0.300	ug/L	4.00	ND	96.1	50-130		17.1	30	
Surrogate: 1,4-Dioxane-d8	*3.68*		*"*	*4.00*		*92.0*	*50-130*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50617 - EPA 1633 Prep											
Blank (BC50617-BLK1) Blank									Prepared: 03/09/2025 Analyzed: 03/10/2025		
Perfluorobutanesulfonic acid (PFBS)	ND	1.77	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.83	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	1.86	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	4.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.91	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.93	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	7.60	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	7.68	"								
Perfluoro-n-butanoic acid (PFBA)	ND	8.00	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.56	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	4.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	4.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	4.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.88	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	ND	7.50	"								
HFPO-DA (Gen-X)	ND	8.00	"								
11CL-PF3OUdS	ND	7.56	"								
9CL-PF3ONS	ND	7.48	"								
ADONA	ND	7.56	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	1.94	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.92	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	5.00	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	25.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	25.0	"								
N-MeFOSE	ND	20.0	"								
N-MeFOSA	ND	2.00	"								
N-EtFOSE	ND	20.0	"								
N-EtFOSA	ND	2.00	"								
Surrogate: M3PFBS	*28.9*		*"*	*23.3*		*124*	*25-150*				
Surrogate: M5PFHxA	*32.6*		*"*	*25.0*		*130*	*25-150*				
Surrogate: M4PFHpA	*36.9*		*"*	*25.0*		*148*	*25-150*				
Surrogate: M3PFHxS	*28.9*		*"*	*23.7*		*122*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*34.2*		*"*	*25.0*		*137*	*25-150*				
Surrogate: M6PFDA	*15.5*		*"*	*12.5*		*124*	*25-150*				
Surrogate: M7PFUdA	*16.0*		*"*	*12.5*		*128*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*16.0*		*"*	*12.5*		*128*	*25-150*				
Surrogate: M2PFTeDA	*12.0*		*"*	*12.5*		*96.4*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50617 - EPA 1633 Prep											
Blank (BC50617-BLK1) Blank								Prepared: 03/09/2025 Analyzed: 03/10/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.26*		*ng/L*	*100*		*1.26*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*31.4*		*"*	*24.0*		*131*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*23.4*		*"*	*50.0*		*46.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*32.4*		*"*	*25.0*		*129*	*10-150*				
Surrogate: d3-N-MeFOSAA	*63.7*		*"*	*50.0*		*127*	*25-150*				
Surrogate: d5-N-EtFOSAA	*62.7*		*"*	*50.0*		*125*	*25-150*				
Surrogate: M2-6:2 FTS	*57.1*		*"*	*47.6*		*120*	*25-200*				
Surrogate: M2-8:2 FTS	*62.1*		*"*	*48.0*		*129*	*25-200*				
Surrogate: M9PFNA	*17.4*		*"*	*12.5*		*139*	*25-150*				
Surrogate: M2-4:2 FTS	*48.3*		*"*	*46.9*		*103*	*25-150*				
Surrogate: d-N-MeFOSA	*26.7*		*"*	*25.0*		*107*	*25-150*				
Surrogate: d-N-EtFOSA	*25.1*		*"*	*25.0*		*100*	*25-150*				
Surrogate: M3HFPO-DA	*95.2*		*"*	*100*		*95.2*	*25-150*				
Surrogate: d9-N-EtFOSE	*271*		*"*	*250*		*108*	*25-150*				
Surrogate: d7-N-MeFOSE	*262*		*"*	*250*		*105*	*25-150*				
LCS (BC50617-BS1) LCS								Prepared: 03/09/2025 Analyzed: 03/10/2025			
Perfluorobutanesulfonic acid (PFBS)	38.5	1.77	ng/L	35.4		109	50-150				
Perfluorohexanoic acid (PFHxA)	40.0	2.00	"	40.0		99.9	50-150				
Perfluoroheptanoic acid (PFHpA)	39.5	2.00	"	40.0		98.8	50-150				
Perfluorohexanesulfonic acid (PFHxS)	33.1	1.83	"	36.6		90.4	50-150				
Perfluorooctanoic acid (PFOA)	43.1	2.00	"	40.0		108	50-150				
Perfluorooctanesulfonic acid (PFOS)	40.6	1.86	"	37.2		109	50-150				
Perfluorononanoic acid (PFNA)	36.9	2.00	"	40.0		92.3	50-150				
Perfluorodecanoic acid (PFDA)	38.2	2.00	"	40.0		95.4	50-150				
Perfluoroundecanoic acid (PFUnA)	41.8	2.00	"	40.0		104	50-150				
Perfluorododecanoic acid (PFDoA)	39.5	2.00	"	40.0		98.8	50-150				
Perfluorotridecanoic acid (PFTrDA)	51.0	2.00	"	40.0		127	50-150				
Perfluorotetradecanoic acid (PFTA)	38.9	2.00	"	40.0		97.3	50-150				
N-MeFOSAA	43.1	2.00	"	40.0		108	50-150				
N-EtFOSAA	46.5	2.00	"	40.0		116	50-150				
Perfluoropentanoic acid (PFPeA)	80.5	4.00	"	80.0		101	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	41.6	2.00	"	40.0		104	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	43.1	1.91	"	38.2		113	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	37.1	1.93	"	38.6		96.0	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	159	7.60	"	152		105	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	158	7.68	"	154		103	50-150				
Perfluoro-n-butanoic acid (PFBA)	102	8.00	"	160		63.9	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	77.9	3.56	"	71.2		109	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	77.7	4.00	"	80.0		97.1	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	7.96	4.00	"	80.0		9.95	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	146	4.00	"	80.0		182	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	39.0	1.88	"	37.6		104	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	171	7.50	"	150		114	50-150				
HFPO-DA (Gen-X)	89.2	8.00	"	80.0		111	50-150				
11CL-PF3OUdS	101	7.56	"	75.6		133	50-150				
9CL-PF3ONS	114	7.48	"	74.8		152	50-150	High Bias			
ADONA	112	7.56	"	75.6		149	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50617 - EPA 1633 Prep											
LCS (BC50617-BS1) LCS								Prepared: 03/09/2025 Analyzed: 03/10/2025			
Perfluorododecanesulfonic acid (PFDoS)	32.1	1.94	ng/L	38.8		82.8	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	46.3	1.92	"	38.4		121	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	79.5	5.00	"	160		49.7	50-150	Low Bias			
3-Perfluoropentyl propanoic acid (FPePA)	902	25.0	"	800		113	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	898	25.0	"	800		112	50-150				
N-MeFOSE	436	20.0	"	400		109	50-150				
N-MeFOSA	44.8	2.00	"	40.0		112	50-150				
N-EtFOSE	434	20.0	"	400		108	50-150				
N-EtFOSA	38.9	2.00	"	40.0		97.3	50-150				
Surrogate: M3PFBS	*28.9*		*"*	*23.3*		*124*	*25-150*				
Surrogate: M5PFHxA	*30.7*		*"*	*25.0*		*123*	*25-150*				
Surrogate: M4PFHpA	*32.2*		*"*	*25.0*		*129*	*25-150*				
Surrogate: M3PFHxS	*31.8*		*"*	*23.7*		*134*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*32.7*		*"*	*25.0*		*131*	*25-150*				
Surrogate: M6PFDA	*15.6*		*"*	*12.5*		*125*	*25-150*				
Surrogate: M7PFUdA	*16.3*		*"*	*12.5*		*131*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*13.3*		*"*	*12.5*		*107*	*25-150*				
Surrogate: M2PFTeDA	*10.5*		*"*	*12.5*		*84.4*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.02*		*"*	*100*		*1.02*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*27.8*		*"*	*24.0*		*116*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*21.7*		*"*	*50.0*		*43.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*31.2*		*"*	*25.0*		*125*	*10-150*				
Surrogate: d3-N-MeFOSAA	*67.1*		*"*	*50.0*		*134*	*25-150*				
Surrogate: d5-N-EtFOSAA	*70.9*		*"*	*50.0*		*142*	*25-150*				
Surrogate: M2-6:2 FTS	*68.7*		*"*	*47.6*		*145*	*25-200*				
Surrogate: M2-8:2 FTS	*80.0*		*"*	*48.0*		*167*	*25-200*				
Surrogate: M9PFNA	*16.5*		*"*	*12.5*		*132*	*25-150*				
Surrogate: M2-4:2 FTS	*57.4*		*"*	*46.9*		*122*	*25-150*				
Surrogate: d-N-MeFOSA	*25.9*		*"*	*25.0*		*104*	*25-150*				
Surrogate: d-N-EtFOSA	*22.7*		*"*	*25.0*		*90.9*	*25-150*				
Surrogate: M3HFPO-DA	*89.8*		*"*	*100*		*89.8*	*25-150*				
Surrogate: d9-N-EtFOSE	*239*		*"*	*250*		*95.6*	*25-150*				
Surrogate: d7-N-MeFOSE	*247*		*"*	*250*		*98.7*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50617 - EPA 1633 Prep											
LCS (BC50617-BS2) LCS								Prepared: 03/09/2025 Analyzed: 03/11/2025			
Perfluorobutanesulfonic acid (PFBS)	3.07	1.77	ng/L	3.54		86.8	50-150				
Perfluorohexanoic acid (PFHxA)	3.78	2.00	"	4.00		94.5	50-150				
Perfluoroheptanoic acid (PFHpA)	3.47	2.00	"	4.00		86.7	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.71	1.83	"	3.66		101	50-150				
Perfluorooctanoic acid (PFOA)	3.87	2.00	"	4.00		96.6	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.99	1.86	"	3.72		107	50-150				
Perfluorononanoic acid (PFNA)	3.72	2.00	"	4.00		93.0	50-150				
Perfluorodecanoic acid (PFDA)	3.92	2.00	"	4.00		97.9	50-150				
Perfluoroundecanoic acid (PFUnA)	3.86	2.00	"	4.00		96.5	50-150				
Perfluorododecanoic acid (PFDoA)	3.76	2.00	"	4.00		94.0	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.50	2.00	"	4.00		113	50-150				
Perfluorotetradecanoic acid (PFTA)	3.44	2.00	"	4.00		86.0	50-150				
N-MeFOSAA	5.44	2.00	"	4.00		136	50-150				
N-EtFOSAA	4.29	2.00	"	4.00		107	50-150				
Perfluoropentanoic acid (PFPeA)	7.95	4.00	"	8.00		99.4	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	3.56	2.00	"	4.00		88.9	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.68	1.91	"	3.82		96.3	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	2.84	1.93	"	3.86		73.5	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	16.4	7.60	"	15.2		108	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	14.7	7.68	"	15.4		95.7	50-150				
Perfluoro-n-butanoic acid (PFBA)	13.8	8.00	"	16.0		86.0	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.85	3.56	"	7.12		110	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	6.17	4.00	"	8.00		77.1	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	0.992	4.00	"	8.00		12.4	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	14.5	4.00	"	8.00		181	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	4.08	1.88	"	3.76		108	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	15.5	7.50	"	15.0		103	50-150				
HFPO-DA (Gen-X)	9.35	8.00	"	8.00		117	50-150				
11CL-PF3OUdS	8.96	7.56	"	7.56		118	50-150				
9CL-PF3ONS	9.49	7.48	"	7.48		127	50-150				
ADONA	10.2	7.56	"	7.56		134	50-150				
Perfluorododecanesulfonic acid (PFDoS)	2.59	1.94	"	3.88		66.8	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	4.07	1.92	"	3.84		106	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	8.67	5.00	"	16.0		54.2	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	82.8	25.0	"	80.0		104	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	84.1	25.0	"	80.0		105	50-150				
N-MeFOSE	43.0	20.0	"	40.0		107	50-150				
N-MeFOSA	5.42	2.00	"	4.00		136	50-150				
N-EtFOSE	38.9	20.0	"	40.0		97.2	50-150				
N-EtFOSA	3.88	2.00	"	4.00		96.9	50-150				
Surrogate: M3PFBS	*30.4*		*"*	*23.3*		*130*	*25-150*				
Surrogate: M5PFHxA	*34.6*		*"*	*25.0*		*138*	*25-150*				
Surrogate: M4PFHpA	*40.0*		*"*	*25.0*		*160*	*25-150*				
Surrogate: M3PFHxS	*31.3*		*"*	*23.7*		*132*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*34.8*		*"*	*25.0*		*139*	*25-150*				
Surrogate: M6PFDA	*18.7*		*"*	*12.5*		*150*	*25-150*				
Surrogate: M7PFUdA	*18.9*		*"*	*12.5*		*151*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*16.8*		*"*	*12.5*		*134*	*25-150*				
Surrogate: M2PFTeDA	*11.8*		*"*	*12.5*		*94.7*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50617 - EPA 1633 Prep											
LCS (BC50617-BS2) LCS								Prepared: 03/09/2025 Analyzed: 03/11/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.43*		*ng/L*	*100*		*1.43*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*39.2*		*"*	*24.0*		*164*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*26.5*		*"*	*50.0*		*53.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*41.0*		*"*	*25.0*		*164*	*10-150*				
Surrogate: d3-N-MeFOSAA	*83.6*		*"*	*50.0*		*167*	*25-150*				
Surrogate: d5-N-EtFOSAA	*95.3*		*"*	*50.0*		*191*	*25-150*				
Surrogate: M2-6:2 FTS	*57.0*		*"*	*47.6*		*120*	*25-200*				
Surrogate: M2-8:2 FTS	*82.5*		*"*	*48.0*		*172*	*25-200*				
Surrogate: M9PFNA	*18.4*		*"*	*12.5*		*147*	*25-150*				
Surrogate: M2-4:2 FTS	*53.1*		*"*	*46.9*		*113*	*25-150*				
Surrogate: d-N-MeFOSA	*30.1*		*"*	*25.0*		*120*	*25-150*				
Surrogate: d-N-EtFOSA	*29.9*		*"*	*25.0*		*120*	*25-150*				
Surrogate: M3HFPO-DA	*108*		*"*	*100*		*108*	*25-150*				
Surrogate: d9-N-EtFOSE	*287*		*"*	*250*		*115*	*25-150*				
Surrogate: d7-N-MeFOSE	*294*		*"*	*250*		*118*	*25-150*				
Matrix Spike (BC50617-MS1) Matrix Spike *Source sample: 25C0154-01 (TMW20_030425)								Prepared: 03/09/2025 Analyzed: 03/11/2025			
Perfluorobutanesulfonic acid (PFBS)	41.7	1.64	ng/L	32.8	5.72	110	25-150				
Perfluorohexanoic acid (PFHxA)	45.4	1.85	"	37.0	7.53	102	25-150				
Perfluoroheptanoic acid (PFHpA)	47.7	1.85	"	37.0	5.12	115	25-150				
Perfluorohexanesulfonic acid (PFHxS)	35.9	1.69	"	33.9	2.26	99.4	25-150				
Perfluorooctanoic acid (PFOA)	69.1	1.85	"	37.0	24.9	119	25-150				
Perfluorooctanesulfonic acid (PFOS)	45.1	1.72	"	34.4	5.11	116	25-150				
Perfluorononanoic acid (PFNA)	40.0	1.85	"	37.0	2.41	102	25-150				
Perfluorodecanoic acid (PFDA)	37.4	1.85	"	37.0	ND	101	25-150				
Perfluoroundecanoic acid (PFUnA)	40.0	1.85	"	37.0	ND	108	25-150				
Perfluorododecanoic acid (PFDoA)	33.8	1.85	"	37.0	ND	91.4	25-150				
Perfluorotridecanoic acid (PFTrDA)	41.9	1.85	"	37.0	ND	113	25-150				
Perfluorotetradecanoic acid (PFTA)	39.1	1.85	"	37.0	ND	106	25-150				
N-MeFOSAA	50.7	1.85	"	37.0	ND	137	25-150				
N-EtFOSAA	39.8	1.85	"	37.0	ND	107	25-150				
Perfluoropentanoic acid (PFPeA)	87.4	3.70	"	74.0	9.83	105	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	36.5	1.85	"	37.0	ND	98.5	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	35.1	1.77	"	35.4	ND	99.3	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	28.5	1.79	"	35.7	ND	79.9	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	139	7.03	"	141	ND	98.6	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	134	7.11	"	142	ND	94.0	25-150				
Perfluoro-n-butanoic acid (PFBA)	168	7.40	"	148	9.65	107	25-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	104	3.29	"	65.9	ND	158	25-150	High Bias			
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	40.4	3.70	"	74.0	ND	54.6	25-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	127	3.70	"	74.0	0.238	172	25-150	High Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	82.5	3.70	"	74.0	ND	111	25-150				
Perfluoro-1-pentanesulfonate (PFPeS)	31.8	1.74	"	34.8	ND	91.4	25-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	125	6.94	"	139	ND	89.9	25-150				
HFPO-DA (Gen-X)	81.7	7.40	"	74.0	ND	110	25-150				
11CL-PF3OUdS	110	7.00	"	70.0	ND	157	25-150	High Bias			
9CL-PF3ONS	115	6.92	"	69.2	ND	167	25-150	High Bias			
ADONA	105	7.00	"	70.0	ND	150	25-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50617 - EPA 1633 Prep											
Matrix Spike (BC50617-MS1) Matrix Spike *Source sample: 25C0154-01 (TMW20_030425)								Prepared: 03/09/2025 Analyzed: 03/11/2025			
Perfluorododecanesulfonic acid (PFDoS)	29.1	1.80	ng/L	35.9	ND	81.1	25-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	33.5	1.78	"	35.5	ND	94.4	25-150				
3-Perfluoropropyl propanoic acid (FPrPA)	210	4.63	"	148	ND	142	25-150				
3-Perfluoropentyl propanoic acid (FPePA)	1150	23.1	"	740	ND	156	25-150	High Bias			
3-Perfluoroheptyl propanoic acid (FHpPA)	1400	23.1	"	740	ND	189	25-150	High Bias			
N-MeFOSE	423	18.5	"	370	ND	114	25-150				
N-MeFOSA	42.7	1.85	"	37.0	ND	115	25-150				
N-EtFOSE	398	18.5	"	370	ND	107	25-150				
N-EtFOSA	49.5	1.85	"	37.0	ND	134	25-150				
Surrogate: M3PFBS	*30.3*		*"*	*21.6*		*141*	*25-150*				
Surrogate: M5PFHxA	*39.8*		*"*	*23.1*		*172*	*25-150*				
Surrogate: M4PFHpA	*45.6*		*"*	*23.1*		*197*	*25-150*				
Surrogate: M3PFHxS	*35.3*		*"*	*21.9*		*161*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*36.3*		*"*	*23.1*		*157*	*25-150*				
Surrogate: M6PFDA	*18.9*		*"*	*11.6*		*164*	*25-150*				
Surrogate: M7PFUdA	*17.8*		*"*	*11.6*		*154*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*16.3*		*"*	*11.6*		*141*	*25-150*				
Surrogate: M2PFTeDA	*12.7*		*"*	*11.6*		*110*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*61.2*		*"*	*92.5*		*66.1*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*37.0*		*"*	*22.2*		*167*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*56.7*		*"*	*46.3*		*123*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*34.4*		*"*	*23.1*		*149*	*10-150*				
Surrogate: d3-N-MeFOSAA	*71.2*		*"*	*46.3*		*154*	*25-150*				
Surrogate: d5-N-EtFOSAA	*75.2*		*"*	*46.3*		*163*	*25-150*				
Surrogate: M2-6:2 FTS	*233*		*"*	*44.0*		*530*	*25-200*				
Surrogate: M2-8:2 FTS	*138*		*"*	*44.4*		*310*	*25-200*				
Surrogate: M9PFNA	*15.8*		*"*	*11.6*		*137*	*25-150*				
Surrogate: M2-4:2 FTS	*217*		*"*	*43.4*		*500*	*25-150*				
Surrogate: d-N-MeFOSA	*26.1*		*"*	*23.1*		*113*	*25-150*				
Surrogate: d-N-EtFOSA	*16.7*		*"*	*23.1*		*72.1*	*25-150*				
Surrogate: M3HFPO-DA	*146*		*"*	*92.5*		*158*	*25-150*				
Surrogate: d9-N-EtFOSE	*242*		*"*	*231*		*105*	*25-150*				
Surrogate: d7-N-MeFOSE	*237*		*"*	*231*		*102*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50617 - EPA 1633 Prep											
Matrix Spike Dup (BC50617-! Matrix Spike Dup *Source sample: 25C0154-01 (TMW20_030425)									Prepared: 03/09/2025 Analyzed: 03/11/2025		
Perfluorobutanesulfonic acid (PFBS)	42.7	1.67	ng/L	33.4	5.72	111	25-150		2.50	35	
Perfluorohexanoic acid (PFHxA)	47.8	1.89	"	37.7	7.53	107	25-150		5.16	35	
Perfluoroheptanoic acid (PFHpA)	46.6	1.89	"	37.7	5.12	110	25-150		2.40	35	
Perfluorohexanesulfonic acid (PFHxS)	39.8	1.73	"	34.5	2.26	109	25-150		10.1	35	
Perfluorooctanoic acid (PFOA)	70.2	1.89	"	37.7	24.9	120	25-150		1.70	35	
Perfluorooctanesulfonic acid (PFOS)	48.9	1.75	"	35.1	5.11	125	25-150		8.06	35	
Perfluorononanoic acid (PFNA)	41.1	1.89	"	37.7	2.41	102	25-150		2.49	35	
Perfluorodecanoic acid (PFDA)	38.3	1.89	"	37.7	ND	101	25-150		2.33	35	
Perfluoroundecanoic acid (PFUnA)	36.4	1.89	"	37.7	ND	96.5	25-150		9.34	35	
Perfluorododecanoic acid (PFDoA)	34.3	1.89	"	37.7	ND	91.0	25-150		1.49	35	
Perfluorotridecanoic acid (PFTrDA)	44.0	1.89	"	37.7	ND	117	25-150		4.80	35	
Perfluorotetradecanoic acid (PFTA)	38.3	1.89	"	37.7	ND	101	25-150		2.14	35	
N-MeFOSAA	45.1	1.89	"	37.7	ND	120	25-150		11.7	35	
N-EtFOSAA	40.4	1.89	"	37.7	ND	107	25-150		1.67	35	
Perfluoropentanoic acid (PFPeA)	89.4	3.77	"	75.4	9.83	105	25-150		2.22	35	
Perfluoro-1-octanesulfonamide (FOSA)	35.0	1.89	"	37.7	ND	92.8	25-150		4.13	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	37.1	1.80	"	36.0	ND	103	25-150		5.43	35	
Perfluoro-1-decanesulfonic acid (PFDS)	33.4	1.82	"	36.4	ND	91.9	25-150		15.8	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	127	7.17	"	143	ND	88.3	25-150		9.08	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	134	7.24	"	145	ND	92.6	25-150		0.415	35	
Perfluoro-n-butanoic acid (PFBA)	166	7.54	"	151	9.65	103	25-150		1.31	35	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	102	3.36	"	67.1	ND	151	25-150	High Bias	2.34	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	47.1	3.77	"	75.4	ND	62.4	25-150		15.3	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	137	3.77	"	75.4	0.238	182	25-150	High Bias	7.64	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	87.2	3.77	"	75.4	ND	116	25-150		5.58	30	
Perfluoro-1-pentanesulfonate (PFPeS)	32.8	1.77	"	35.5	ND	92.6	25-150		3.17	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	132	7.07	"	141	ND	93.0	25-150		5.38	30	
HFPO-DA (Gen-X)	93.1	7.54	"	75.4	ND	123	25-150		13.1	30	
11CL-PF3OUdS	109	7.13	"	71.3	ND	152	25-150	High Bias	1.02	30	
9CL-PF3ONS	110	7.05	"	70.5	ND	156	25-150	High Bias	4.58	30	
ADONA	108	7.13	"	71.3	ND	151	25-150	High Bias	2.85	30	
Perfluorododecanesulfonic acid (PFDoS)	32.6	1.83	"	36.6	ND	89.1	25-150		11.3	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	37.5	1.81	"	36.2	ND	104	25-150		11.3	30	
3-Perfluoropropyl propanoic acid (FPrPA)	211	4.72	"	151	ND	140	25-150		0.676	30	
3-Perfluoropentyl propanoic acid (FPePA)	1140	23.6	"	754	ND	151	25-150	High Bias	1.52	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	1310	23.6	"	754	ND	174	25-150	High Bias	6.48	30	
N-MeFOSE	436	18.9	"	377	ND	116	25-150		3.06	30	
N-MeFOSA	39.1	1.89	"	37.7	ND	104	25-150		8.77	30	
N-EtFOSE	393	18.9	"	377	ND	104	25-150		1.09	30	
N-EtFOSA	29.0	1.89	"	37.7	ND	77.0	25-150		52.1	30	Non-dir.
Surrogate: M3PFBS	*26.4*		*"*	*22.0*		*120*	*25-150*				
Surrogate: M5PFHxA	*35.6*		*"*	*23.6*		*151*	*25-150*				
Surrogate: M4PFHpA	*39.1*		*"*	*23.6*		*166*	*25-150*				
Surrogate: M3PFHxS	*27.3*		*"*	*22.4*		*122*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*29.8*		*"*	*23.6*		*126*	*25-150*				
Surrogate: M6PFDA	*14.3*		*"*	*11.8*		*122*	*25-150*				
Surrogate: M7PFUdA	*15.0*		*"*	*11.8*		*128*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*13.3*		*"*	*11.8*		*113*	*25-150*				
Surrogate: M2PFTeDA	*10.6*		*"*	*11.8*		*90.2*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50617 - EPA 1633 Prep											
Matrix Spike Dup (BC50617-M Matrix Spike Dup *Source sample: 25C0154-01 (TMW20_030425)									Prepared: 03/09/2025 Analyzed: 03/11/2025		
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*77.5*		*ng/L*	*94.3*		*82.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*31.9*		*"*	*22.6*		*141*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*52.4*		*"*	*47.2*		*111*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*31.5*		*"*	*23.6*		*134*	*10-150*				
Surrogate: d3-N-MeFOSAA	*64.9*		*"*	*47.2*		*138*	*25-150*				
Surrogate: d5-N-EtFOSAA	*67.5*		*"*	*47.2*		*143*	*25-150*				
Surrogate: M2-6:2 FTS	*201*		*"*	*44.8*		*448*	*25-200*				
Surrogate: M2-8:2 FTS	*116*		*"*	*45.3*		*257*	*25-200*				
Surrogate: M9PFNA	*15.6*		*"*	*11.8*		*133*	*25-150*				
Surrogate: M2-4:2 FTS	*184*		*"*	*44.2*		*417*	*25-150*				
Surrogate: d-N-MeFOSA	*22.0*		*"*	*23.6*		*93.3*	*25-150*				
Surrogate: d-N-EtFOSA	*24.5*		*"*	*23.6*		*104*	*25-150*				
Surrogate: M3HFPO-DA	*126*		*"*	*94.3*		*134*	*25-150*				
Surrogate: d9-N-EtFOSE	*221*		*"*	*236*		*93.5*	*25-150*				
Surrogate: d7-N-MeFOSE	*214*		*"*	*236*		*90.7*	*25-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50644 - EPA SW846-3510C Low Level											
Blank (BC50644-BLK1) Blank							Prepared & Analyzed: 03/10/2025				
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Chlordane, total	ND	0.200	"								
Surrogate: Decachlorobiphenyl	*0.103*		*"*	*0.200*		*51.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0554*		*"*	*0.200*		*27.7*	*30-150*				
LCS (BC50644-BS1) LCS							Prepared & Analyzed: 03/10/2025				
4,4'-DDD	0.0706	0.00400	ug/L	0.100		70.6	40-140			20	
4,4'-DDE	0.0599	0.00400	"	0.100		59.9	40-140			20	
4,4'-DDT	0.0811	0.00400	"	0.100		81.1	40-140			20	
Aldrin	0.0466	0.00400	"	0.100		46.6	40-140			20	
alpha-BHC	0.0559	0.00400	"	0.100		55.9	40-140			20	
alpha-Chlordane	0.0546	0.00400	"	0.100		54.6	40-140			20	
beta-BHC	0.0684	0.00400	"	0.100		68.4	40-140			20	
delta-BHC	0.0487	0.00400	"	0.100		48.7	40-140			20	
Dieldrin	0.0619	0.00200	"	0.100		61.9	40-140			20	
Endosulfan I	0.0613	0.00400	"	0.100		61.3	40-140			20	
Endosulfan II	0.0712	0.00400	"	0.100		71.2	40-140			20	
Endosulfan sulfate	0.0705	0.00400	"	0.100		70.5	40-140			20	
Endrin	0.0705	0.00400	"	0.100		70.5	40-140			20	
Endrin aldehyde	0.0759	0.0100	"	0.100		75.9	40-140			20	
Endrin ketone	0.0856	0.0100	"	0.100		85.6	40-140			20	
gamma-BHC (Lindane)	0.0615	0.00400	"	0.100		61.5	40-140			20	
gamma-Chlordane	0.0589	0.0100	"	0.100		58.9	40-140			20	
Heptachlor	0.0590	0.00400	"	0.100		59.0	40-140			20	
Heptachlor epoxide	0.0598	0.00400	"	0.100		59.8	40-140			20	
Methoxychlor	0.0878	0.00400	"	0.100		87.8	40-140			20	
Surrogate: Decachlorobiphenyl	*0.103*		*"*	*0.200*		*51.6*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0734*		*"*	*0.200*		*36.7*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50644 - EPA SW846-3510C Low Level											
LCS Dup (BC50644-BSD1) LCS Dup							Prepared & Analyzed: 03/10/2025				
4,4'-DDD	0.0653	0.00400	ug/L	0.100		65.3	40-140		7.78	20	
4,4'-DDE	0.0530	0.00400	"	0.100		53.0	40-140		12.2	20	
4,4'-DDT	0.0745	0.00400	"	0.100		74.5	40-140		8.50	20	
Aldrin	0.0386	0.00400	"	0.100		38.6	40-140	Low Bias	18.7	20	
alpha-BHC	0.0527	0.00400	"	0.100		52.7	40-140		5.92	20	
alpha-Chlordane	0.0494	0.00400	"	0.100		49.4	40-140		10.1	20	
beta-BHC	0.0637	0.00400	"	0.100		63.7	40-140		7.11	20	
delta-BHC	0.0457	0.00400	"	0.100		45.7	40-140		6.35	20	
Dieldrin	0.0569	0.00200	"	0.100		56.9	40-140		8.41	20	
Endosulfan I	0.0556	0.00400	"	0.100		55.6	40-140		9.77	20	
Endosulfan II	0.0656	0.00400	"	0.100		65.6	40-140		8.14	20	
Endosulfan sulfate	0.0645	0.00400	"	0.100		64.5	40-140		8.79	20	
Endrin	0.0650	0.00400	"	0.100		65.0	40-140		8.12	20	
Endrin aldehyde	0.0719	0.0100	"	0.100		71.9	40-140		5.52	20	
Endrin ketone	0.0777	0.0100	"	0.100		77.7	40-140		9.61	20	
gamma-BHC (Lindane)	0.0581	0.00400	"	0.100		58.1	40-140		5.59	20	
gamma-Chlordane	0.0523	0.0100	"	0.100		52.3	40-140		11.8	20	
Heptachlor	0.0508	0.00400	"	0.100		50.8	40-140		14.9	20	
Heptachlor epoxide	0.0551	0.00400	"	0.100		55.1	40-140		8.28	20	
Methoxychlor	0.0809	0.00400	"	0.100		80.9	40-140		8.19	20	
Surrogate: Decachlorobiphenyl	*0.102*		*"*	*0.200*		*51.1*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0634*		*"*	*0.200*		*31.7*	*30-150*				
Batch BC50755 - EPA SW846-3510C Low Level											
Blank (BC50755-BLK1) Blank							Prepared & Analyzed: 03/11/2025				
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Chlordane, total	ND	0.200	"								
Surrogate: Decachlorobiphenyl	*0.0428*		*"*	*0.200*		*21.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0647*		*"*	*0.200*		*32.3*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Batch BC50755 - EPA SW846-3510C Low Level

Matrix Spike (BC50755-MS1) Matrix Spike *Source sample: 25C0154-01 (TMW20_030425) Prepared & Analyzed: 03/11/2025

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
4,4'-DDD	0.0768	0.00400	ug/L	0.100	ND	76.8	30-150			20	
4,4'-DDE	0.0568	0.00400	"	0.100	ND	56.8	30-150			20	
4,4'-DDT	0.0768	0.00400	"	0.100	ND	76.8	30-150			20	
Aldrin	0.0479	0.00400	"	0.100	ND	47.9	30-150			20	
alpha-BHC	0.0547	0.00400	"	0.100	ND	54.7	30-150			20	
alpha-Chlordane	0.0527	0.00400	"	0.100	ND	52.7	30-150			20	
beta-BHC	0.0599	0.00400	"	0.100	ND	59.9	30-150			20	
delta-BHC	0.0443	0.00400	"	0.100	ND	44.3	30-150			20	
Dieldrin	0.0594	0.00200	"	0.100	ND	59.4	30-150			20	
Endosulfan I	0.0576	0.00400	"	0.100	ND	57.6	30-150			20	
Endosulfan II	0.0765	0.00400	"	0.100	ND	76.5	30-150			20	
Endosulfan sulfate	0.0782	0.00400	"	0.100	ND	78.2	30-150			20	
Endrin	0.0662	0.00400	"	0.100	ND	66.2	30-150			20	
Endrin aldehyde	0.0823	0.0100	"	0.100	ND	82.3	30-150			20	
Endrin ketone	0.0913	0.0100	"	0.100	ND	91.3	30-150			20	
gamma-BHC (Lindane)	0.0586	0.00400	"	0.100	ND	58.6	30-150			20	
gamma-Chlordane	0.0541	0.0100	"	0.100	ND	54.1	30-150			20	
Heptachlor	0.0542	0.00400	"	0.100	ND	54.2	30-150			20	
Heptachlor epoxide	0.0556	0.00400	"	0.100	ND	55.6	30-150			20	
Methoxychlor	0.0939	0.00400	"	0.100	ND	93.9	30-150			20	
Surrogate: Decachlorobiphenyl	*0.0933*		*"*	*0.200*		*46.6*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0855*		*"*	*0.200*		*42.8*	*30-150*				

Matrix Spike Dup (BC50755-! Matrix Spike Dup *Source sample: 25C0154-01 (TMW20_030425) Prepared & Analyzed: 03/11/2025

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
4,4'-DDD	0.0801	0.00400	ug/L	0.100	ND	80.1	30-150		4.31	20	
4,4'-DDE	0.0609	0.00400	"	0.100	ND	60.9	30-150		6.83	20	
4,4'-DDT	0.0807	0.00400	"	0.100	ND	80.7	30-150		4.95	20	
Aldrin	0.0536	0.00400	"	0.100	ND	53.6	30-150		11.3	20	
alpha-BHC	0.0612	0.00400	"	0.100	ND	61.2	30-150		11.2	20	
alpha-Chlordane	0.0569	0.00400	"	0.100	ND	56.9	30-150		7.51	20	
beta-BHC	0.0669	0.00400	"	0.100	ND	66.9	30-150		11.0	20	
delta-BHC	0.0474	0.00400	"	0.100	ND	47.4	30-150		6.75	20	
Dieldrin	0.0631	0.00200	"	0.100	ND	63.1	30-150		5.99	20	
Endosulfan I	0.0619	0.00400	"	0.100	ND	61.9	30-150		7.25	20	
Endosulfan II	0.0802	0.00400	"	0.100	ND	80.2	30-150		4.71	20	
Endosulfan sulfate	0.0826	0.00400	"	0.100	ND	82.6	30-150		5.56	20	
Endrin	0.0708	0.00400	"	0.100	ND	70.8	30-150		6.72	20	
Endrin aldehyde	0.0873	0.0100	"	0.100	ND	87.3	30-150		5.97	20	
Endrin ketone	0.0969	0.0100	"	0.100	ND	96.9	30-150		5.90	20	
gamma-BHC (Lindane)	0.0651	0.00400	"	0.100	ND	65.1	30-150		10.4	20	
gamma-Chlordane	0.0578	0.0100	"	0.100	ND	57.8	30-150		6.68	20	
Heptachlor	0.0616	0.00400	"	0.100	ND	61.6	30-150		12.7	20	
Heptachlor epoxide	0.0608	0.00400	"	0.100	ND	60.8	30-150		8.88	20	
Methoxychlor	0.0927	0.00400	"	0.100	ND	92.7	30-150		1.29	20	
Surrogate: Decachlorobiphenyl	*0.0984*		*"*	*0.200*		*49.2*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0953*		*"*	*0.200*		*47.6*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50548 - EPA SW846-3510C Low Level											
Blank (BC50548-BLK1) Blank							Prepared & Analyzed: 03/07/2025				
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.0890*		*"*	*0.200*		*44.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.122*		*"*	*0.200*		*61.0*	*30-120*				
LCS (BC50548-BS2) LCS							Prepared & Analyzed: 03/07/2025				
Aroclor 1016	0.594	0.0500	ug/L	1.00		59.4	40-120				
Aroclor 1260	0.476	0.0500	"	1.00		47.6	40-120				
Surrogate: Tetrachloro-m-xylene	*0.0700*		*"*	*0.200*		*35.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0790*		*"*	*0.200*		*39.5*	*30-120*				
Matrix Spike (BC50548-MS2) Matrix Spike *Source sample: 25C0154-01 (TMW20_030425)							Prepared: 03/07/2025 Analyzed: 03/09/2025				
Aroclor 1016	0.383	0.0500	ug/L	1.00	ND	38.3	40-140	Low Bias			
Aroclor 1260	0.434	0.0500	"	1.00	ND	43.4	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0550*		*"*	*0.200*		*27.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0490*		*"*	*0.200*		*24.5*	*30-120*				
Matrix Spike Dup (BC50548-M Matrix Spike Dup *Source sample: 25C0154-01 (TMW20_030425)							Prepared: 03/07/2025 Analyzed: 03/09/2025				
Aroclor 1016	0.341	0.0500	ug/L	1.00	ND	34.1	40-140	Low Bias	11.5	50	
Aroclor 1260	0.376	0.0500	"	1.00	ND	37.6	40-140	Low Bias	14.1	50	
Surrogate: Tetrachloro-m-xylene	*0.0460*		*"*	*0.200*		*23.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0350*		*"*	*0.200*		*17.5*	*30-120*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50648 - EPA 8151A											
Blank (BC50648-BLK1) Blank								Prepared & Analyzed: 03/10/2025			
2,4,5-T	ND	5.00	ug/L								
2,4,5-TP (Silvex)	ND	5.00	"								
2,4-D	ND	5.00	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*64.5*		*"*	*125*		*51.6*	*30-150*				
LCS (BC50648-BS1) LCS								Prepared & Analyzed: 03/10/2025			
2,4,5-T	18.8	5.00	ug/L	20.0		93.8	10-140				
2,4,5-TP (Silvex)	17.8	5.00	"	20.0		88.8	10-139				
2,4-D	17.8	5.00	"	20.0		88.8	10-140				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*109*		*"*	*125*		*87.0*	*30-150*				
LCS Dup (BC50648-BSD1) LCS Dup								Prepared & Analyzed: 03/10/2025			
2,4,5-T	19.8	5.00	ug/L	20.0		98.8	10-140		5.19	30	
2,4,5-TP (Silvex)	18.5	5.00	"	20.0		92.5	10-139		4.14	30	
2,4-D	18.2	5.00	"	20.0		91.2	10-140		2.78	30	
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*107*		*"*	*125*		*85.6*	*30-150*				
Matrix Spike (BC50648-MS1) Matrix Spike *Source sample: 25C0154-01 (TMW20_030425)								Prepared & Analyzed: 03/10/2025			
2,4,5-T	17.2	5.00	ug/L	20.0	ND	86.2	30-150				
2,4,5-TP (Silvex)	16.5	5.00	"	20.0	ND	82.5	30-150				
2,4-D	16.2	5.00	"	20.0	ND	81.2	30-150				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*96.8*		*"*	*125*		*77.4*	*30-150*				
Matrix Spike Dup (BC50648-! Matrix Spike Dup *Source sample: 25C0154-01 (TMW20_030425)								Prepared & Analyzed: 03/10/2025			
2,4,5-T	19.8	5.00	ug/L	20.0	ND	98.8	30-150		13.5	30	
2,4,5-TP (Silvex)	16.0	5.00	"	20.0	ND	80.0	30-150		3.08	30	
2,4-D	16.2	5.00	"	20.0	ND	81.2	30-150		0.00	30	
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*100*		*"*	*125*		*80.2*	*30-150*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50380 - EPA 3015A											
Blank (BC50380-BLK1) Blank								Prepared & Analyzed: 03/06/2025			
Aluminum - Dissolved	ND	0.0556	mg/L								
Barium - Dissolved	ND	0.0278	"								
Calcium - Dissolved	ND	0.0556	"								
Chromium - Dissolved	ND	0.00556	"								
Cobalt - Dissolved	ND	0.00444	"								
Copper - Dissolved	ND	0.0222	"								
Iron - Dissolved	ND	0.278	"								
Lead - Dissolved	ND	0.00556	"								
Magnesium - Dissolved	ND	0.0556	"								
Manganese - Dissolved	ND	0.00556	"								
Nickel - Dissolved	ND	0.0111	"								
Potassium - Dissolved	ND	0.0556	"								
Silver - Dissolved	ND	0.00556	"								
Sodium - Dissolved	ND	0.556	"								
Vanadium - Dissolved	ND	0.0111	"								
Zinc - Dissolved	ND	0.0278	"								
LCS (BC50380-BS1) LCS								Prepared & Analyzed: 03/06/2025			
Aluminum - Dissolved	1.85		ug/mL	2.00		92.7	80-120				
Barium - Dissolved	2.08		"	2.00		104	80-120				
Calcium - Dissolved	1.21		"	1.00		121	80-120	High Bias			
Chromium - Dissolved	0.208		"	0.200		104	80-120				
Cobalt - Dissolved	0.524		"	0.500		105	80-120				
Copper - Dissolved	0.258		"	0.250		103	80-120				
Iron - Dissolved	0.984		"	1.00		98.4	80-120				
Lead - Dissolved	0.512		"	0.500		102	80-120				
Magnesium - Dissolved	0.999		"	1.00		99.9	80-120				
Manganese - Dissolved	0.516		"	0.500		103	80-120				
Nickel - Dissolved	0.526		"	0.500		105	80-120				
Potassium - Dissolved	0.529		"	1.00		52.9	80-120	Low Bias			
Silver - Dissolved	0.0476		"	0.0500		95.2	80-120				
Sodium - Dissolved	1.02		"	1.00		102	80-120				
Vanadium - Dissolved	0.501		"	0.500		100	80-120				
Zinc - Dissolved	0.528		"	0.500		106	80-120				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50380 - EPA 3015A											
Duplicate (BC50380-DUP1) Duplicate	*Source sample: 25C0154-01 (TMW20_030425)							Prepared & Analyzed: 03/06/2025			
Aluminum - Dissolved	0.830	0.0556	mg/L		0.858				3.36	20	
Barium - Dissolved	0.225	0.0278	"		0.225				0.0987	20	
Calcium - Dissolved	107	0.0556	"		107				0.497	20	
Chromium - Dissolved	0.0178	0.00556	"		0.0182				2.47	20	
Cobalt - Dissolved	0.0200	0.00444	"		0.0200				0.00	20	
Copper - Dissolved	ND	0.0222	"		0.0264					20	
Iron - Dissolved	63.7	0.278	"		64.0				0.480	20	
Lead - Dissolved	0.0126	0.00556	"		0.0140				10.9	20	
Magnesium - Dissolved	30.3	0.0556	"		30.3				0.0803	20	
Manganese - Dissolved	5.71	0.00556	"		5.71				0.0564	20	
Nickel - Dissolved	0.0180	0.0111	"		0.0179				0.619	20	
Potassium - Dissolved	16.5	0.0556	"		16.5				0.529	20	
Silver - Dissolved	0.0148	0.00556	"		0.0154				4.41	20	
Sodium - Dissolved	720	0.556	"		724				0.577	20	
Vanadium - Dissolved	0.0149	0.0111	"		0.0157				5.09	20	
Zinc - Dissolved	0.0461	0.0278	"		0.0353				26.5	20	Non-dir.
Matrix Spike (BC50380-MS1) Matrix Spike	*Source sample: 25C0154-01 (TMW20_030425)							Prepared & Analyzed: 03/06/2025			
Aluminum - Dissolved	3.35	0.0556	mg/L	2.22	0.858	112	75-125				
Barium - Dissolved	2.45	0.0278	"	2.22	0.225	100	75-125				
Calcium - Dissolved	107	0.0556	"	1.11	107	60.5	75-125	Low Bias			
Chromium - Dissolved	0.241	0.00556	"	0.222	0.0182	100	75-125				
Cobalt - Dissolved	0.576	0.00444	"	0.556	0.0200	100	75-125				
Copper - Dissolved	0.337	0.0222	"	0.278	0.0264	112	75-125				
Iron - Dissolved	64.4	0.278	"	1.11	64.0	36.7	75-125	Low Bias			
Lead - Dissolved	0.555	0.00556	"	0.556	0.0140	97.3	75-125				
Magnesium - Dissolved	31.1	0.0556	"	1.11	30.3	72.9	75-125	Low Bias			
Manganese - Dissolved	6.21	0.00556	"	0.556	5.71	88.8	75-125				
Nickel - Dissolved	0.574	0.0111	"	0.556	0.0179	100	75-125				
Potassium - Dissolved	17.5	0.0556	"	1.11	16.5	88.6	75-125				
Silver - Dissolved	0.0722	0.00556	"	0.0556	0.0154	102	75-125				
Sodium - Dissolved	716	0.556	"	1.11	724	NR	75-125	Low Bias			
Vanadium - Dissolved	0.588	0.0111	"	0.556	0.0157	103	75-125				
Zinc - Dissolved	0.613	0.0278	"	0.556	0.0353	104	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50380 - EPA 3015A											
Post Spike (BC50380-PS1) Post Spike	*Source sample: 25C0154-01 (TMW20_030425)							Prepared & Analyzed: 03/06/2025			
Aluminum - Dissolved	3.07		ug/mL	2.00	0.772	115	75-125				
Barium - Dissolved	2.26		"	2.00	0.203	103	75-125				
Calcium - Dissolved	96.5		"	1.00	96.1	45.4	75-125	Low Bias			
Chromium - Dissolved	0.223		"	0.200	0.0164	103	75-125				
Cobalt - Dissolved	0.532		"	0.500	0.0180	103	75-125				
Copper - Dissolved	0.317		"	0.250	0.0238	117	75-125				
Iron - Dissolved	58.0		"	1.00	57.6	40.1	75-125	Low Bias			
Lead - Dissolved	0.510		"	0.500	0.0126	99.5	75-125				
Magnesium - Dissolved	28.1		"	1.00	27.3	80.9	75-125				
Manganese - Dissolved	5.61		"	0.500	5.14	92.8	75-125				
Nickel - Dissolved	0.532		"	0.500	0.0161	103	75-125				
Potassium - Dissolved	15.9		"	1.00	14.9	99.8	75-125				
Silver - Dissolved	0.0697		"	0.0500	0.0139	112	75-125				
Sodium - Dissolved	647		"	1.00	652	NR	75-125	Low Bias			
Vanadium - Dissolved	0.544		"	0.500	0.0141	106	75-125				
Zinc - Dissolved	0.550		"	0.500	0.0318	104	75-125				
Batch BC50498 - EPA 3015A											
Blank (BC50498-BLK1) Blank								Prepared & Analyzed: 03/07/2025			
Aluminum	ND	0.0556	mg/L								
Barium	ND	0.0278	"								
Calcium	ND	0.0556	"								
Chromium	ND	0.00556	"								
Cobalt	ND	0.00444	"								
Copper	ND	0.0222	"								
Iron	ND	0.278	"								
Lead	ND	0.00556	"								
Magnesium	ND	0.0556	"								
Manganese	ND	0.00556	"								
Nickel	ND	0.0111	"								
Potassium	ND	0.0556	"								
Silver	ND	0.00556	"								
Sodium	ND	0.556	"								
Vanadium	ND	0.0111	"								
Zinc	ND	0.0278	"								

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50498 - EPA 3015A											
LCS (BC50498-BS1) LCS							Prepared & Analyzed: 03/07/2025				
Aluminum	1.74		ug/mL	2.00		86.9	80-120				
Barium	1.93		"	2.00		96.4	80-120				
Calcium	1.17		"	1.00		117	80-120				
Chromium	0.194		"	0.200		97.0	80-120				
Cobalt	0.486		"	0.500		97.3	80-120				
Copper	0.244		"	0.250		97.7	80-120				
Iron	0.867		"	1.00		86.7	80-120				
Lead	0.475		"	0.500		94.9	80-120				
Magnesium	0.946		"	1.00		94.6	80-120				
Manganese	0.482		"	0.500		96.3	80-120				
Nickel	0.488		"	0.500		97.6	80-120				
Potassium	0.922		"	1.00		92.2	80-120				
Silver	0.0457		"	0.0500		91.4	80-120				
Sodium	1.27		"	1.00		127	80-120	High Bias			
Vanadium	0.470		"	0.500		94.1	80-120				
Zinc	0.478		"	0.500		95.5	80-120				
Duplicate (BC50498-DUP1) Duplicate	*Source sample: 25C0154-01 (TMW20_030425)						Prepared & Analyzed: 03/07/2025				
Aluminum	0.880	0.0556	mg/L		0.925				4.96	20	
Barium	0.218	0.0278	"		0.218				0.102	20	
Calcium	105	0.0556	"		106				0.138	20	
Chromium	ND	0.00556	"		ND					20	
Cobalt	0.00600	0.00444	"		0.00600				0.00	20	
Copper	ND	0.0222	"		ND					20	
Iron	68.0	0.278	"		67.7				0.351	20	
Lead	ND	0.00556	"		ND					20	
Magnesium	30.0	0.0556	"		30.1				0.163	20	
Manganese	5.55	0.00556	"		5.53				0.377	20	
Nickel	ND	0.0111	"		ND					20	
Potassium	17.4	0.0556	"		17.0				2.37	20	
Silver	ND	0.00556	"		ND					20	
Sodium	730	0.556	"		730				0.0236	20	
Vanadium	ND	0.0111	"		ND					20	
Zinc	ND	0.0278	"		ND					20	

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50498 - EPA 3015A											
Matrix Spike (BC50498-MS1) Matrix Spike	*Source sample: 25C0154-01 (TMW20_030425)							Prepared & Analyzed: 03/07/2025			
Aluminum	4.44	0.0556	mg/L	2.22	0.925	158	75-125	High Bias			
Barium	2.35	0.0278	"	2.22	0.218	95.9	75-125				
Calcium	106	0.0556	"	1.11	106	38.9	75-125	Low Bias			
Chromium	0.219	0.00556	"	0.222	ND	98.6	75-125				
Cobalt	0.537	0.00444	"	0.556	0.00600	95.5	75-125				
Copper	0.316	0.0222	"	0.278	ND	114	75-125				
Iron	70.9	0.278	"	1.11	67.7	287	75-125	High Bias			
Lead	0.525	0.00556	"	0.556	ND	94.6	75-125				
Magnesium	31.1	0.0556	"	1.11	30.1	93.5	75-125				
Manganese	6.12	0.00556	"	0.556	5.53	107	75-125				
Nickel	0.538	0.0111	"	0.556	ND	96.8	75-125				
Potassium	18.5	0.0556	"	1.11	17.0	135	75-125	High Bias			
Silver	0.0573	0.00556	"	0.0556	ND	103	75-125				
Sodium	728	0.556	"	1.11	730	NR	75-125	Low Bias			
Vanadium	0.559	0.0111	"	0.556	ND	101	75-125				
Zinc	0.533	0.0278	"	0.556	ND	95.9	75-125				
Post Spike (BC50498-PS1) Post Spike	*Source sample: 25C0154-01 (TMW20_030425)							Prepared & Analyzed: 03/07/2025			
Aluminum	3.01		ug/mL	2.00	0.833	109	75-125				
Barium	2.06		"	2.00	0.196	93.1	75-125				
Calcium	93.1		"	1.00	95.1	NR	75-125	Low Bias			
Chromium	0.191		"	0.200	0.00260	94.0	75-125				
Cobalt	0.472		"	0.500	0.00540	93.2	75-125				
Copper	0.277		"	0.250	0.00290	110	75-125				
Iron	61.1		"	1.00	60.9	20.0	75-125	Low Bias			
Lead	0.456		"	0.500	0.00270	90.7	75-125				
Magnesium	27.2		"	1.00	27.1	10.7	75-125	Low Bias			
Manganese	5.37		"	0.500	4.97	78.5	75-125				
Nickel	0.471		"	0.500	0.00510	93.2	75-125				
Potassium	16.3		"	1.00	15.3	100	75-125				
Silver	0.0519		"	0.0500	0.000100	104	75-125				
Sodium	641		"	1.00	657	NR	75-125	Low Bias			
Vanadium	0.489		"	0.500	0.00290	97.2	75-125				
Zinc	0.470		"	0.500	0.0125	91.5	75-125				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50495 - EPA 3015A											
Blank (BC50495-BLK1) Blank								Prepared & Analyzed: 03/07/2025			
Antimony	ND	1.11	ug/L								
Arsenic	ND	1.11	"								
Beryllium	ND	0.333	"								
Cadmium	ND	0.556	"								
Selenium	ND	1.11	"								
Thallium	ND	1.11	"								
LCS (BC50495-BS1) LCS								Prepared & Analyzed: 03/07/2025			
Antimony	49.9		ug/L	50.0		99.9	80-120				
Arsenic	48.1		"	50.0		96.2	80-120				
Beryllium	42.7		"	50.0		85.3	80-120				
Cadmium	46.9		"	50.0		93.8	80-120				
Selenium	47.1		"	50.0		94.2	80-120				
Thallium	47.3		"	50.0		94.6	80-120				
Duplicate (BC50495-DUP1) Duplicate *Source sample: 25C0154-01 (TMW20_030425)								Prepared & Analyzed: 03/07/2025			
Antimony	ND	1.11	ug/L		ND					20	
Arsenic	5.97	1.11	"		6.26				4.70	20	
Beryllium	ND	0.333	"		ND					20	
Cadmium	ND	0.556	"		ND					20	
Selenium	1.13	1.11	"		ND					20	
Thallium	ND	1.11	"		ND					20	
Matrix Spike (BC50495-MS1) Matrix Spike *Source sample: 25C0154-01 (TMW20_030425)								Prepared & Analyzed: 03/07/2025			
Antimony	71.4		ug/L	50.0	-0.044	143	75-125	High Bias			
Arsenic	55.9		"	50.0	5.63	100	75-125				
Beryllium	23.3		"	50.0	0.055	46.5	75-125	Low Bias			
Cadmium	62.9		"	50.0	0.028	126	75-125	High Bias			
Selenium	55.7		"	50.0	0.323	111	75-125				
Thallium	47.1		"	50.0	-0.057	94.2	75-125				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50503 - EPA 3015A											
Blank (BC50503-BLK1) Blank								Prepared & Analyzed: 03/07/2025			
Antimony - Dissolved	ND	1.11	ug/L								
Arsenic - Dissolved	ND	1.11	"								
Beryllium - Dissolved	ND	0.333	"								
Cadmium - Dissolved	ND	0.556	"								
Selenium - Dissolved	ND	1.11	"								
Thallium - Dissolved	ND	1.11	"								
LCS (BC50503-BS1) LCS								Prepared & Analyzed: 03/07/2025			
Antimony - Dissolved	61.1		ug/L	50.0		122	80-120	High Bias			
Arsenic - Dissolved	49.6		"	50.0		99.2	80-120				
Beryllium - Dissolved	43.6		"	50.0		87.2	80-120				
Cadmium - Dissolved	57.8		"	50.0		116	80-120				
Selenium - Dissolved	50.2		"	50.0		100	80-120				
Thallium - Dissolved	47.3		"	50.0		94.6	80-120				
Duplicate (BC50503-DUP1) Duplicate *Source sample: 25C0154-01 (TMW20_030425)								Prepared & Analyzed: 03/07/2025			
Antimony - Dissolved	ND	1.11	ug/L		ND					20	
Arsenic - Dissolved	8.04	1.11	"		6.95				14.5	20	
Beryllium - Dissolved	ND	0.333	"		ND					20	
Cadmium - Dissolved	ND	0.556	"		0.653					20	
Selenium - Dissolved	4.11	1.11	"		ND					20	
Thallium - Dissolved	1.30	1.11	"		ND					20	
Matrix Spike (BC50503-MS1) Matrix Spike *Source sample: 25C0154-01 (TMW20_030425)								Prepared & Analyzed: 03/07/2025			
Antimony - Dissolved	65.9		ug/L	50.0	0.202	131	75-125	High Bias			
Arsenic - Dissolved	54.4		"	50.0	6.26	96.2	75-125				
Beryllium - Dissolved	29.8		"	50.0	0.025	59.5	75-125	Low Bias			
Cadmium - Dissolved	58.3		"	50.0	0.588	115	75-125				
Selenium - Dissolved	53.4		"	50.0	0.862	105	75-125				
Thallium - Dissolved	44.3		"	50.0	-0.076	88.7	75-125				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50367 - EPA SW846-7470A												
Blank (BC50367-BLK1)	Blank								Prepared & Analyzed: 03/06/2025			
Mercury		ND	0.0002	mg/L								
LCS (BC50367-BS1)	LCS								Prepared & Analyzed: 03/06/2025			
Mercury		0.0019353	0.0002	mg/L	0.00200		96.8	80-120				
Duplicate (BC50367-DUP1)	Duplicate	*Source sample: 25C0154-01 (TMW20_030425)							Prepared & Analyzed: 03/06/2025			
Mercury		ND	0.0002	mg/L		ND					20	
Matrix Spike (BC50367-MS1)	Matrix Spike	*Source sample: 25C0154-01 (TMW20_030425)							Prepared & Analyzed: 03/06/2025			
Mercury		0.0020	0.0002	mg/L	0.00200	ND	101	75-125				
Matrix Spike Dup (BC50367-M	Matrix Spike Dup	*Source sample: 25C0154-01 (TMW20_030425)							Prepared & Analyzed: 03/06/2025			
Mercury		0.0019	0.0002	mg/L	0.00200	ND	93.5	75-125		7.82	200	
Batch BC50369 - EPA SW846-7470A												
Blank (BC50369-BLK1)	Blank								Prepared & Analyzed: 03/06/2025			
Mercury - Dissolved		ND	0.0002	mg/L								
LCS (BC50369-BS1)	LCS								Prepared & Analyzed: 03/06/2025			
Mercury - Dissolved		0.0020	0.0002	mg/L	0.00200		99.8	80-120				
Duplicate (BC50369-DUP1)	Duplicate	*Source sample: 25C0154-01 (TMW20_030425)							Prepared & Analyzed: 03/06/2025			
Mercury - Dissolved		0.0003	0.0002	mg/L		ND					20	
Matrix Spike (BC50369-MS1)	Matrix Spike	*Source sample: 25C0154-01 (TMW20_030425)							Prepared & Analyzed: 03/06/2025			
Mercury - Dissolved		0.0022	0.0002	mg/L	0.00200	ND	109	75-125				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50369 - EPA SW846-7470A											
Matrix Spike Dup (BC50369-M Matrix Spike Dup	*Source sample: 25C0154-01 (TMW20_030425)								Prepared & Analyzed: 03/06/2025		
Mercury - Dissolved	0.0019	0.0002	mg/L	0.00200	ND	93.0	75-125		16.2	20	

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50245 - Analysis Preparation												
Blank (BC50245-BLK1)	Blank								Prepared & Analyzed: 03/04/2025			
Chromium, Hexavalent		ND	0.0100	mg/L								
LCS (BC50245-BS1)	LCS								Prepared & Analyzed: 03/04/2025			
Chromium, Hexavalent		0.431	0.0100	mg/L	0.500		86.3	85-115				
Duplicate (BC50245-DUP1)	Duplicate	*Source sample: 25C0154-01 (TMW20_030425)							Prepared & Analyzed: 03/04/2025			
Chromium, Hexavalent		ND	0.0100	mg/L		ND					20	
Matrix Spike (BC50245-MS1)	Matrix Spike	*Source sample: 25C0154-01 (TMW20_030425)							Prepared & Analyzed: 03/04/2025			
Chromium, Hexavalent		0.274	0.0100	mg/L	0.500	ND	54.7	85-115	Low Bias			
Matrix Spike Dup (BC50245-M	Matrix Spike Dup	*Source sample: 25C0154-01 (TMW20_030425)							Prepared & Analyzed: 03/04/2025			
Chromium, Hexavalent		0.271	0.0100	mg/L	0.500	ND	54.2	85-115	Low Bias	0.864	200	
Batch BC50690 - Analysis Preparation												
Blank (BC50690-BLK1)	Blank								Prepared & Analyzed: 03/10/2025			
Cyanide, total		ND	0.0100	mg/L								
LCS (BC50690-BS1)	LCS								Prepared & Analyzed: 03/10/2025			
Cyanide, total		0.0879	0.0100	mg/L	0.100		87.9	80-120				
Duplicate (BC50690-DUP1)	Duplicate	*Source sample: 25C0154-01 (TMW20_030425)							Prepared & Analyzed: 03/10/2025			
Cyanide, total		ND	0.0100	mg/L		ND					15	
Matrix Spike (BC50690-MS1)	Matrix Spike	*Source sample: 25C0154-01 (TMW20_030425)							Prepared & Analyzed: 03/10/2025			
Cyanide, total		0.0885	0.0100	mg/L	0.100	ND	88.5	79-105				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50690 - Analysis Preparation											
Matrix Spike Dup (BC50690-M Matrix Spike Dup	*Source sample: 25C0154-01 (TMW20_030425)								Prepared & Analyzed: 03/10/2025		
Cyanide, total	0.0827	0.0100	mg/L	0.100	ND	82.7	79-105		6.75	200	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
25C0154-01	TMW20_030425	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
25C0154-02	GWFB01_030425	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
25C0154-04	GWTB03_030425	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)
PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
S-GC	Two surrogates are used for this analysis. One surrogate recovered within control limits therefore the analysis is acceptable.
PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
S-08	The recovery of this surrogate was outside of QC limits.
S-09	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect confirmed by re-extraction and re-analysis of the sample.
M-CCV1	The recovery for this element in the Continuing Calibration Verification (CCV) was outside the 90-110% recovery criteria.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis

Low Bias — Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This legal document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | 2161 Whitesville Rd Toms River, NJ 08755 | clientservices@yorklab.com | 800-306-YORK

YORK Project Number: 25C0154

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Report To:
Company: Langan
Address: 368 Ninth Ave 8th Flr NY, NY 10001
Phone.: 212-479-5400
Contact: Lexi Haley
E-mail: LHaley@langan.com

Invoice To:
Company:
Address:
Phone.:
Contact:
E-mail:

YOUR Project Name / Number: Proposed Bally's Casino Ring Road at Ferry Point Park 170773001

PO Number:

Samples Collected From: NY ✓ | NJ | CT | PA | Other: (please specify)

Turn-Around Time: RUSH - Next Day | RUSH - Two Day | RUSH - Three Day | RUSH - Four Day | RUSH - Five Day | Standard (6-9 Day) ✓ | PFAS Standard 7-10 Day

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Savannah Walters

Matrix Codes: S - soil/solid/sludge; GW groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Preservative (please list number of containers)

Analyses Requested

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other:	Part 375 VOCs	Part 375 SVOCs, PCBs, Pest.	Herb, TAL metals (inc. hex cr, total cyanide)	(dissolved & total) 1,4-dioxane	PFAS	Grab or Comp. G/C
TMW20-030425	3/4/25	1105	GW	10	3		2		1					X	X	X	X	X	
GWFB01-030425	↓	0815	AQ	8	3		2		1					X	X	X	X	X	
GWFB01-PFAS-030425	↓	0819	↓	2														X	
GWTB03-030425	↓	—	↓		2									X					

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered ✓
Lab Filtered

Comments: please cc: datamanagement@langan.com areach@langan.com & swalters@langan.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N | Containers Intact: Y / N | COC/Labels Agree: Y / N | Preservation Confirmed: Y / N
COC Complete: Y / N | COC Received: Y / N | Appropriate Sample Volumes: Y / N | Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N | Samples Submitted within Holding Times: Y / N | Corrective Action Form Required: Y / N

Relinquished by / Company	Date/Time	Received by / Company	Date/Time	Relinquished by / Company	Date/Time
1. Savannah Walters (Langan)	3/4/25 1600	1. A. Husain	3/4/25 16:00	2. A. Husain	3/4/22 21:30
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time: 3/4/25 21:30

Temperature: 2.3 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Report Date: 03/18/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0502

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/18/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0502

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 07, 2025 and listed below. The project was identified as your project: **170773001**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25C0502-01	TMW27_030725	Ground Water	03/07/2025	03/07/2025
25C0502-02	TMW31_030725	Ground Water	03/07/2025	03/07/2025
25C0502-03	GWTB04_030725	Water	03/07/2025	03/07/2025

General Notes for York Project (SDG) No.: 25C0502

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By **Date:** 03/18/2025

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: TMW27_030725 **York Sample ID:** 25C0502-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 9:25 am	03/07/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	**2-Butanone**	**0.790**	CCVE	ug/L	0.421	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: TMW27_030725 **York Sample ID:** 25C0502-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 9:25 am	03/07/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**3.94**	ICVE	ug/L	1.34	2.00	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		ug/L	0.447	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND	CCVE, QL-02	ug/L	0.119	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND	CCVE	ug/L	0.448	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	ug/L	0.372	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND	ICVE	ug/L	0.491	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: TMW27_030725 **York Sample ID:** 25C0502-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 9:25 am	03/07/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND	ICVE	ug/L	0.442	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND	QL-02	ug/L	0.249	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **TMW27_030725** **York Sample ID:** **25C0502-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 9:25 am	03/07/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND	CCVE	ug/L	0.337	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE	ug/L	0.469	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/10/2025 08:00	03/10/2025 13:41	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*91.2 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*87.6 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*87.2 %*	*79-122*

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW27_030725 **York Sample ID:** 25C0502-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 9:25 am	03/07/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-48-7	2-Methylphenol	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
99-09-2	3-Nitroaniline	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		ug/L	5.56	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND	CAL-E	ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	ug/L	5.56	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW27_030725 **York Sample ID:** 25C0502-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 9:25 am	03/07/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.11	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	NELAC-NY10854,PADEP-68-04440		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.56	11.1	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND	CCVE	ug/L	0.833	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		ug/L	2.78	5.56	1	EPA 8270D	03/13/2025 08:00	03/13/2025 20:55	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*26.7 %*	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*17.2 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*64.7 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*46.4 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*56.7 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*74.4 %*	*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: TMW27_030725 | **York Sample ID:** 25C0502-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 9:25 am	03/07/2025

83-32-9	Acenaphthene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-12-7	Anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		ug/L	0.556	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.556	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	Chrysene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	**Fluoranthene**	**0.0889**		ug/L	0.0556	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	Fluorene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
118-74-1	Hexachlorobenzene	ND		ug/L	0.0222	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND	QL-02	ug/L	0.556	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND		ug/L	0.556	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND	CCVE, ICVE	ug/L	0.278	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
62-75-9	N-Nitrosodimethylamine	ND	QL-02, CCVE	ug/L	0.556	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-86-5	Pentachlorophenol	ND	CCVE	ug/L	0.278	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
85-01-8	**Phenanthrene**	**0.0778**		ug/L	0.0556	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/12/2025 14:26	03/13/2025 21:12	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **TMW27_030725** **York Sample ID:** **25C0502-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 9:25 am	03/07/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270E SIM Certifications: NJDEP-CT005,NELAC-NY10854	03/13/2025 20:15	03/14/2025 23:44	SS

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*108 %*	*36.6-118*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**3.41**		ng/L	0.442	1.67	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**13.1**		ng/L	0.329	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**7.42**		ng/L	0.668	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**4.00**		ng/L	0.640	1.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
335-67-1	**Perfluorooctanoic acid (PFOA)**	**32.5**	PF-CCV-L	ng/L	0.395	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**19.4**		ng/L	0.771	1.75	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
375-95-1	**Perfluorononanoic acid (PFNA)**	**3.42**		ng/L	0.489	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
335-76-2	**Perfluorodecanoic acid (PFDA)**	**0.706**	J	ng/L	0.706	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.06	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND	PF-CCV-L	ng/L	0.828	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.696	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.649	1.88	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.743	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
2991-50-6	N-EtFOSAA	ND		ng/L	0.969	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**15.9**		ng/L	0.216	3.76	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.828	1.88	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM

Sample Information

Client Sample ID: TMW27_030725 **York Sample ID:** 25C0502-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 9:25 am	03/07/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.856	1.80	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.24	1.82	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	7.06	7.15	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.93	7.22	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.310	7.53	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.470	3.35	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/17/2025 14:54	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	PF-LCS-L	ng/L	2.01	3.76	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/17/2025 14:54	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.235	3.76	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/17/2025 14:54	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.348	3.76	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/17/2025 14:54	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.715	1.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.68	7.06	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.04	7.53	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.30	7.11	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.659	7.04	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
919005-14-4	ADONA	ND		ng/L	0.499	7.11	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.875	1.83	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 14:54	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.809	1.81	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/17/2025 14:54	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.91	4.70	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 14:54	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	6.90	23.5	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 14:54	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND	PF-CCV-L, PF-LCS-L	ng/L	8.91	23.5	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 14:54	AM
24448-09-7	* N-MeFOSE	ND		ng/L	3.75	18.8	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 14:54	AM

Sample Information

Client Sample ID: TMW27_030725 **York Sample ID:** 25C0502-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 9:25 am	03/07/2025

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
31506-32-8	* N-MeFOSA	ND		ng/L	1.49	1.88	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 14:54	AM
1691-99-2	* N-EtFOSE	ND		ng/L	3.75	18.8	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 14:54	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.69	1.88	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 14:54	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*138 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*134 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*158 %*	PFSu-H	*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*142 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*142 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*152 %*	PFSu-H	*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*115 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*105 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*52.9 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*25.2 %*		*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*135 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*109 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*119 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*124 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*125 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*273 %*	PFSu-H	*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*201 %*	PFSu-H	*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*113 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*267 %*	PFSu-H	*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*99.5 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*68.4 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*101 %*		*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*44.4 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*51.9 %*		*25-150*

Sample Information

Client Sample ID: TMW27_030725 **York Sample ID:** 25C0502-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 9:25 am	03/07/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW27_030725 **York Sample ID:** 25C0502-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 9:25 am	03/07/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B	03/13/2025 08:40	03/13/2025 23:21	SCB
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*34.8 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*65.4 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:01	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:01	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:01	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:01	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:01	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:01	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:01	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:01	NF
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*30.5 %*		*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*29.0 %*	S-GC, S-08	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	03/11/2025 12:18	03/13/2025 14:52	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	03/11/2025 12:18	03/13/2025 14:52	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	03/11/2025 12:18	03/13/2025 14:52	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW27_030725 **York Sample ID:** 25C0502-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 9:25 am	03/07/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*99.6 %*	*30-150*

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.124**		mg/L	0.0278	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**127**		mg/L	0.0556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**15.8**		mg/L	0.278	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**26.7**		mg/L	0.0556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**3.18**		mg/L	0.00556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**24.9**		mg/L	0.0556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**58.3**		mg/L	0.556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:02	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICP Dissolved

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **TMW27_030725** **York Sample ID:** **25C0502-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 9:25 am	03/07/2025

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.0838**		mg/L	0.0278	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**126**	M-BS	mg/L	0.0556	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**27.0**		mg/L	0.0556	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**2.94**		mg/L	0.00556	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**24.4**		mg/L	0.0556	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**66.9**		mg/L	0.556	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:04	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	03/12/2025 09:04	03/12/2025 16:08	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**8.10**		ug/L	1.11	1	EPA 6020B	03/12/2025 09:04	03/12/2025 16:08	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	03/12/2025 09:04	03/12/2025 16:08	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	03/12/2025 09:04	03/12/2025 16:08	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **TMW27_030725** **York Sample ID:** **25C0502-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 9:25 am	03/07/2025

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	**Selenium**	**2.48**	B	ug/L	1.11	1	EPA 6020B	03/12/2025 09:04	03/12/2025 16:08	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/12/2025 09:04	03/12/2025 16:08	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-BS	ug/L	1.11	1	EPA 6020B	03/12/2025 08:45	03/12/2025 17:03	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.14**		ug/L	1.11	1	EPA 6020B	03/12/2025 08:45	03/12/2025 17:03	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	03/12/2025 08:45	03/12/2025 17:03	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND	M-BS	ug/L	0.556	1	EPA 6020B	03/12/2025 08:45	03/12/2025 17:03	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**6.06**	M-CCV 1	ug/L	1.11	1	EPA 6020B	03/12/2025 08:45	03/12/2025 17:03	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/12/2025 08:45	03/12/2025 17:03	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/12/2025 08:07	03/12/2025 08:07	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/12/2025 08:10	03/12/2025 08:10	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	03/07/2025 19:40	03/07/2025 21:43	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **TMW27_030725** **York Sample ID:** **25C0502-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 9:25 am	03/07/2025

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	03/13/2025 11:15	03/13/2025 11:21	AD

Certifications:

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C-2016 / E-201(	03/11/2025 14:06	03/11/2025 20:17	CB

Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: TMW31_030725 **York Sample ID:** 25C0502-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 12:59 pm	03/07/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **TMW31_030725** **York Sample ID:** **25C0502-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 12:59 pm	03/07/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**2.01**	ICVE	ug/L	1.34	2.00	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		ug/L	0.447	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND	CCVE, QL-02	ug/L	0.119	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND	CCVE	ug/L	0.448	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	ug/L	0.372	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND	ICVE	ug/L	0.491	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: **TMW31_030725** **York Sample ID:** **25C0502-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 12:59 pm	03/07/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND	ICVE	ug/L	0.442	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	**tert-Butyl alcohol (TBA)**	**0.970**		ug/L	0.608	1.00	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	**tert-Butylbenzene**	**0.510**		ug/L	0.367	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND	QL-02	ug/L	0.249	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: TMW31_030725 **York Sample ID:** 25C0502-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 12:59 pm	03/07/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND	CCVE	ug/L	0.337	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE	ug/L	0.469	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/10/2025 08:00	03/10/2025 14:10	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*89.8 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*88.5 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*90.3 %*	*79-122*

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW31_030725 **York Sample ID:** 25C0502-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 12:59 pm	03/07/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-48-7	2-Methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
99-09-2	3-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		ug/L	5.00	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CAL-E	ug/L	5.00	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E, CCVE	ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW31_030725 **York Sample ID:** 25C0502-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 12:59 pm	03/07/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.00	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND	CAL-E	ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	NELAC-NY10854,PADEP-68-04440		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.00	10.0	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		ug/L	0.750	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		ug/L	2.50	5.00	1	EPA 8270D	03/14/2025 08:25	03/14/2025 20:08	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*29.1 %*	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*18.1 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*55.1 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*59.8 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*101 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*70.8 %*	*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **TMW31_030725** **York Sample ID:** **25C0502-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 12:59 pm	03/07/2025

83-32-9	**Acenaphthene**	**0.100**		ug/L	0.0500	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-12-7	Anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		ug/L	0.500	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**1.18**		ug/L	0.500	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	Chrysene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	**Fluoranthene**	**0.0600**		ug/L	0.0500	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	Fluorene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
118-74-1	Hexachlorobenzene	ND		ug/L	0.0200	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.500	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND		ug/L	0.500	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND	CCVE, ICVE	ug/L	0.250	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.500	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-86-5	Pentachlorophenol	ND	CCVE	ug/L	0.250	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
85-01-8	**Phenanthrene**	**0.0600**		ug/L	0.0500	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 22:44	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **TMW31_030725** **York Sample ID:** **25C0502-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 12:59 pm	03/07/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	**1,4-Dioxane**	**1.94**		ug/L	0.300	1	EPA 8270E SIM Certifications: NJDEP-CT005,NELAC-NY10854	03/13/2025 20:15	03/18/2025 10:33	SS

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*76.0 %*	*36.6-118*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**2.25**		ng/L	0.430	1.62	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**7.02**		ng/L	0.320	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**5.06**		ng/L	0.649	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**4.59**		ng/L	0.621	1.67	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
335-67-1	**Perfluorooctanoic acid (PFOA)**	**29.0**	PF-CCV-L	ng/L	0.384	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**25.2**		ng/L	0.749	1.70	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
375-95-1	**Perfluorononanoic acid (PFNA)**	**3.76**		ng/L	0.475	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.685	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.03	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND	PF-CCV-L	ng/L	0.804	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.676	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.631	1.83	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.722	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
2991-50-6	N-EtFOSAA	ND		ng/L	0.941	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**6.12**		ng/L	0.210	3.66	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.804	1.83	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM

Sample Information

Client Sample ID: TMW31_030725 **York Sample ID:** 25C0502-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 12:59 pm	03/07/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.832	1.75	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.21	1.76	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	6.85	6.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.87	7.02	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.302	7.31	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.457	3.25	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/17/2025 15:06	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	PF-LCS-L	ng/L	1.96	3.66	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/17/2025 15:06	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.228	3.66	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/17/2025 15:06	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.338	3.66	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/17/2025 15:06	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.695	1.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.64	6.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	2.95	7.31	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.26	6.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.640	6.84	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
919005-14-4	ADONA	ND		ng/L	0.484	6.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.850	1.77	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 15:06	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.786	1.75	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/17/2025 15:06	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.86	4.57	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 15:06	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	6.70	22.8	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 15:06	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND	PF-CCV-L, PF-LCS-L	ng/L	8.65	22.8	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 15:06	AM
24448-09-7	* N-MeFOSE	ND		ng/L	3.65	18.3	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 15:06	AM

Sample Information

Client Sample ID: TMW31_030725 **York Sample ID:** 25C0502-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 12:59 pm	03/07/2025

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
31506-32-8	* N-MeFOSA	ND		ng/L	1.44	1.83	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 15:06	AM
1691-99-2	* N-EtFOSE	ND		ng/L	3.65	18.3	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 15:06	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.65	1.83	1	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/17/2025 15:06	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*121 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*112 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*124 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*109 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*117 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*117 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*95.2 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*70.3 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*40.9 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*24.4 %*	PFSu-L	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*111 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*98.3 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*100 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*98.0 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*102 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*233 %*	PFSu-H	*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*167 %*		*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*107 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*233 %*	PFSu-H	*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*72.5 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*53.5 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*127 %*		*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*40.6 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*45.0 %*		*25-150*

Sample Information

Client Sample ID: TMW31_030725 **York Sample ID:** 25C0502-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 12:59 pm	03/07/2025

PEST, 8081 MASTER

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW31_030725 **York Sample ID:** 25C0502-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 12:59 pm	03/07/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:** EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B	03/13/2025 08:40	03/14/2025 07:43	RJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*42.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*76.3 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:** EXT-EM

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:14	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:14	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:14	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:14	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:14	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:14	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:14	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:14	NF
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*36.0 %*		*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*20.5 %*	S-08, S-GC	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	03/11/2025 12:18	03/13/2025 14:59	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	03/11/2025 12:18	03/13/2025 14:59	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	03/11/2025 12:18	03/13/2025 14:59	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW31_030725 **York Sample ID:** 25C0502-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 12:59 pm	03/07/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*89.4 %*	*30-150*

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.306**		mg/L	0.0278	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**111**		mg/L	0.0556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**17.5**		mg/L	0.278	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**19.7**		mg/L	0.0556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**0.448**		mg/L	0.00556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**29.0**		mg/L	0.0556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**74.2**		mg/L	0.556	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	03/12/2025 07:42	03/12/2025 15:03	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICP Dissolved

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **TMW31_030725** **York Sample ID:** **25C0502-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 12:59 pm	03/07/2025

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.208**		mg/L	0.0278	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**110**	M-BS	mg/L	0.0556	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**19.9**		mg/L	0.0556	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**0.433**		mg/L	0.00556	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**29.2**		mg/L	0.0556	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**73.7**		mg/L	0.556	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	03/12/2025 08:31	03/12/2025 16:05	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	03/12/2025 09:04	03/12/2025 16:12	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.89**		ug/L	1.11	1	EPA 6020B	03/12/2025 09:04	03/12/2025 16:12	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	03/12/2025 09:04	03/12/2025 16:12	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	03/12/2025 09:04	03/12/2025 16:12	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW31_030725 **York Sample ID:** 25C0502-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 12:59 pm	03/07/2025

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	**Selenium**	**3.91**	B	ug/L	1.11	1	EPA 6020B	03/12/2025 09:04	03/12/2025 16:12	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/12/2025 09:04	03/12/2025 16:12	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	03/12/2025 08:45	03/13/2025 11:38	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	03/12/2025 08:45	03/13/2025 11:38	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	03/12/2025 08:45	03/13/2025 11:38	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	03/12/2025 08:45	03/13/2025 11:38	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**2.39**		ug/L	1.11	1	EPA 6020B	03/12/2025 08:45	03/13/2025 11:38	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/12/2025 08:45	03/13/2025 11:38	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/12/2025 08:07	03/12/2025 08:07	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/12/2025 08:10	03/12/2025 08:10	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	03/07/2025 19:40	03/07/2025 21:43	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **TMW31_030725** **York Sample ID:** **25C0502-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Ground Water	March 7, 2025 12:59 pm	03/07/2025

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	03/13/2025 11:15	03/13/2025 11:21	AD
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.0117**		mg/L	0.0100	1	SM 4500 CN C-2016 / E-2016	03/11/2025 14:06	03/11/2025 20:17	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: GWTB04_030725 **York Sample ID:** 25C0502-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Water	March 7, 2025 3:00 pm	03/07/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: GWTB04_030725 **York Sample ID:** 25C0502-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Water	March 7, 2025 3:00 pm	03/07/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND		ug/L	1.34	2.00	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		ug/L	0.447	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND	CCVE, QL-02	ug/L	0.119	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND	CCVE	ug/L	0.448	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	ug/L	0.372	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND	ICVE	ug/L	0.491	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.451	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: GWTB04_030725 **York Sample ID:** 25C0502-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Water	March 7, 2025 3:00 pm	03/07/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND	ICVE	ug/L	0.442	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND	QL-02	ug/L	0.249	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: GWTB04_030725 **York Sample ID:** 25C0502-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0502	170773001	Water	March 7, 2025 3:00 pm	03/07/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND	CCVE	ug/L	0.337	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE	ug/L	0.469	0.500	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/10/2025 08:00	03/10/2025 15:36	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*90.5 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*87.9 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*88.8 %*	*79-122*

Analytical Batch Summary

Batch ID: BC50581 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0502-01	TMW27_030725	03/07/25
25C0502-02	TMW31_030725	03/07/25
BC50581-BLK1	Blank	03/07/25
BC50581-BS1	LCS	03/07/25

Batch ID: BC50649 **Preparation Method:** EPA 5030B **Prepared By:** PD

YORK Sample ID	Client Sample ID	Preparation Date
25C0502-01	TMW27_030725	03/10/25
25C0502-02	TMW31_030725	03/10/25
25C0502-03	GWTB04_030725	03/10/25
BC50649-BLK1	Blank	03/10/25
BC50649-BS1	LCS	03/10/25

Batch ID: BC50782 **Preparation Method:** EPA 8151A **Prepared By:** YL

YORK Sample ID	Client Sample ID	Preparation Date
25C0502-01	TMW27_030725	03/11/25
25C0502-02	TMW31_030725	03/11/25
BC50782-BLK1	Blank	03/11/25
BC50782-BS1	LCS	03/11/25

Batch ID: BC50788 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0502-01	TMW27_030725	03/11/25
25C0502-02	TMW31_030725	03/11/25
BC50788-BLK1	Blank	03/11/25
BC50788-BS1	LCS	03/11/25

Batch ID: BC50840 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0502-01	TMW27_030725	03/12/25
25C0502-02	TMW31_030725	03/12/25
BC50840-BLK1	Blank	03/12/25
BC50840-BS1	LCS	03/12/25

Batch ID: BC50842 **Preparation Method:** EPA SW846-7470A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
25C0502-01	TMW27_030725	03/12/25

25C0502-02	TMW31_030725	03/12/25
BC50842-BLK1	Blank	03/12/25
BC50842-BLK2	Blank	03/12/25
BC50842-BS1	LCS	03/12/25
BC50842-BS2	LCS	03/12/25

Batch ID: BC50844 **Preparation Method:** EPA SW846-7470A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
25C0502-01	TMW27_030725	03/12/25
25C0502-02	TMW31_030725	03/12/25
BC50844-BLK1	Blank	03/12/25
BC50844-BLK2	Blank	03/12/25
BC50844-BS1	LCS	03/12/25
BC50844-BS2	LCS	03/12/25

Batch ID: BC50849 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0502-01	TMW27_030725	03/12/25
25C0502-02	TMW31_030725	03/12/25
BC50849-BLK1	Blank	03/12/25
BC50849-BS1	LCS	03/12/25
BC50849-DUP1	Duplicate	03/12/25
BC50849-MS1	Matrix Spike	03/12/25
BC50849-PS1	Post Spike	03/12/25

Batch ID: BC50857 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0502-01	TMW27_030725	03/12/25
25C0502-02	TMW31_030725	03/12/25
BC50857-BLK1	Blank	03/12/25
BC50857-BS1	LCS	03/12/25
BC50857-DUP1	Duplicate	03/12/25
BC50857-MS1	Matrix Spike	03/12/25

Batch ID: BC50861 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0502-01	TMW27_030725	03/12/25
25C0502-02	TMW31_030725	03/12/25
BC50861-BLK1	Blank	03/12/25
BC50861-BS1	LCS	03/12/25
BC50861-DUP1	Duplicate	03/12/25
BC50861-MS1	Matrix Spike	03/12/25

Batch ID: BC50895 **Preparation Method:** EPA 3510C **Prepared By:** SAC2

YORK Sample ID	Client Sample ID	Preparation Date
25C0502-01	TMW27_030725	03/12/25
BC50895-BLK2	Blank	03/13/25
BC50895-BS2	LCS	03/13/25

Batch ID: BC50896 **Preparation Method:** EPA 3510C **Prepared By:** SAC2

YORK Sample ID	Client Sample ID	Preparation Date
25C0502-01	TMW27_030725	03/13/25
BC50896-BLK1	Blank	03/13/25
BC50896-BS1	LCS	03/13/25

Batch ID: BC50947 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** AJC

YORK Sample ID	Client Sample ID	Preparation Date
25C0502-01	TMW27_030725	03/13/25
25C0502-02	TMW31_030725	03/13/25
BC50947-BLK1	Blank	03/13/25
BC50947-BS2	LCS	03/13/25

Batch ID: BC50949 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** AJC

YORK Sample ID	Client Sample ID	Preparation Date
25C0502-01	TMW27_030725	03/13/25
25C0502-02	TMW31_030725	03/13/25
BC50949-BLK1	Blank	03/13/25
BC50949-BS1	LCS	03/13/25

Batch ID: BC50990 **Preparation Method:** Analysis Preparation **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
25C0502-01	TMW27_030725	03/13/25
25C0502-02	TMW31_030725	03/13/25

Batch ID: BC51002 **Preparation Method:** EPA 3535A **Prepared By:** NMB2

YORK Sample ID	Client Sample ID	Preparation Date
25C0502-01	TMW27_030725	03/13/25
25C0502-02	TMW31_030725	03/13/25
BC51002-BLK1	Blank	03/13/25
BC51002-BS1	LCS	03/13/25

Batch ID: BC51062 **Preparation Method:** EPA 3510C **Prepared By:** SAC2

YORK Sample ID	Client Sample ID	Preparation Date
25C0502-02	TMW31_030725	03/14/25
BC51062-BLK1	Blank	03/14/25
BC51062-BS1	LCS	03/14/25
BC51062-BSD1	LCS Dup	03/14/25

Batch ID: BC51064 **Preparation Method:** EPA 3510C **Prepared By:** SAC2

YORK Sample ID	Client Sample ID	Preparation Date
25C0502-02	TMW31_030725	03/14/25
BC51064-BLK2	Blank	03/14/25
BC51064-BS2	LCS	03/14/25

Batch ID: BC51162 **Preparation Method:** EPA 1633 Prep **Prepared By:** MPR

YORK Sample ID	Client Sample ID	Preparation Date
25C0502-01	TMW27_030725	03/16/25
25C0502-02	TMW31_030725	03/16/25
BC51162-BLK1	Blank	03/16/25
BC51162-BS1	LCS	03/16/25
BC51162-BS2	LCS	03/16/25

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50649 - EPA 5030B											
Blank (BC50649-BLK1) Blank									Prepared & Analyzed: 03/10/2025		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50649 - EPA 5030B											
Blank (BC50649-BLK1) Blank								Prepared & Analyzed: 03/10/2025			
n-Butylbenzene	ND	0.500	ug/L								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*8.99*		*"*	*10.0*		*89.9*	*69-130*				
Surrogate: SURR: Toluene-d8	*8.85*		*"*	*10.0*		*88.5*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*8.94*		*"*	*10.0*		*89.4*	*79-122*				
LCS (BC50649-BS1) LCS								Prepared & Analyzed: 03/10/2025			
1,1,1,2-Tetrachloroethane	9.28		ug/L	10.0		92.8	82-126				
1,1,1-Trichloroethane	10.0		"	10.0		100	78-136				
1,1,2,2-Tetrachloroethane	9.08		"	10.0		90.8	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13.2		"	10.0		132	54-165				
1,1,2-Trichloroethane	8.85		"	10.0		88.5	82-123				
1,1-Dichloroethane	9.79		"	10.0		97.9	82-129				
1,1-Dichloroethylene	10.5		"	10.0		105	68-138				
1,2,3-Trichlorobenzene	11.0		"	10.0		110	76-136				
1,2,3-Trichloropropane	8.21		"	10.0		82.1	77-128				
1,2,4-Trichlorobenzene	10.8		"	10.0		108	76-137				
1,2,4-Trimethylbenzene	8.81		"	10.0		88.1	82-132				
1,2-Dibromo-3-chloropropane	8.36		"	10.0		83.6	45-147				
1,2-Dibromoethane	9.31		"	10.0		93.1	83-124				
1,2-Dichlorobenzene	8.79		"	10.0		87.9	79-123				
1,2-Dichloroethane	9.20		"	10.0		92.0	73-132				
1,2-Dichloropropane	7.96		"	10.0		79.6	78-126				
1,3,5-Trimethylbenzene	8.58		"	10.0		85.8	80-131				
1,3-Dichlorobenzene	8.86		"	10.0		88.6	86-122				
1,4-Dichlorobenzene	8.93		"	10.0		89.3	85-124				
1,4-Dioxane	190		"	210		90.3	10-349				
2-Butanone	11.1		"	10.0		111	49-152				
2-Hexanone	7.32		"	10.0		73.2	51-146				
4-Methyl-2-pentanone	7.51		"	10.0		75.1	57-145				
Acetone	6.79		"	10.0		67.9	14-150				
Acrolein	20.6		"	10.0		206	10-153	High Bias			
Acrylonitrile	10.4		"	10.0		104	51-150				
Benzene	11.1		"	10.0		111	85-126				
Bromochloromethane	9.26		"	10.0		92.6	77-128				
Bromodichloromethane	8.40		"	10.0		84.0	79-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50649 - EPA 5030B											
LCS (BC50649-BS1) LCS							Prepared & Analyzed: 03/10/2025				
Bromoform	9.94		ug/L	10.0		99.4	78-133				
Bromomethane	3.69		"	10.0		36.9	43-168	Low Bias			
Carbon disulfide	13.2		"	10.0		132	68-146				
Carbon tetrachloride	10.9		"	10.0		109	77-141				
Chlorobenzene	9.12		"	10.0		91.2	88-120				
Chloroethane	8.11		"	10.0		81.1	65-136				
Chloroform	9.94		"	10.0		99.4	82-128				
Chloromethane	7.41		"	10.0		74.1	43-155				
cis-1,2-Dichloroethylene	10.1		"	10.0		101	83-129				
cis-1,3-Dichloropropylene	8.86		"	10.0		88.6	80-131				
Cyclohexane	11.0		"	10.0		110	63-149				
Dibromochloromethane	9.85		"	10.0		98.5	80-130				
Dibromomethane	8.37		"	10.0		83.7	72-134				
Dichlorodifluoromethane	15.0		"	10.0		150	44-144	High Bias			
Ethyl Benzene	8.97		"	10.0		89.7	80-131				
Hexachlorobutadiene	11.3		"	10.0		113	67-146				
Isopropylbenzene	8.81		"	10.0		88.1	76-140				
Methyl acetate	11.9		"	10.0		119	51-139				
Methyl tert-butyl ether (MTBE)	10.7		"	10.0		107	76-135				
Methylcyclohexane	9.47		"	10.0		94.7	72-143				
Methylene chloride	9.34		"	10.0		93.4	55-137				
n-Butylbenzene	8.30		"	10.0		83.0	79-132				
n-Propylbenzene	8.46		"	10.0		84.6	78-133				
o-Xylene	8.67		"	10.0		86.7	78-130				
p- & m- Xylenes	15.4		"	20.0		77.1	77-133				
p-Isopropyltoluene	9.13		"	10.0		91.3	81-136				
sec-Butylbenzene	8.88		"	10.0		88.8	79-137				
Styrene	9.70		"	10.0		97.0	67-132				
tert-Butyl alcohol (TBA)	54.9		"	50.0		110	25-162				
tert-Butylbenzene	8.73		"	10.0		87.3	77-138				
Tetrachloroethylene	5.36		"	10.0		53.6	82-131	Low Bias			
Toluene	8.86		"	10.0		88.6	80-127				
trans-1,2-Dichloroethylene	10.2		"	10.0		102	80-132				
trans-1,3-Dichloropropylene	8.76		"	10.0		87.6	78-131				
Trichloroethylene	8.18		"	10.0		81.8	82-128	Low Bias			
Trichlorofluoromethane	8.40		"	10.0		84.0	67-139				
Vinyl Chloride	8.50		"	10.0		85.0	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*8.80*		*"*	*10.0*		*88.0*	*69-130*				
Surrogate: SURR: Toluene-d8	*8.86*		*"*	*10.0*		*88.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.04*		*"*	*10.0*		*90.4*	*79-122*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50895 - EPA 3510C											
Blank (BC50895-BLK2) Blank								Prepared & Analyzed: 03/13/2025			
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	0.220	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								
LCS (BC50895-BS2) LCS								Prepared & Analyzed: 03/13/2025			
Acenaphthene	0.580	0.0500	ug/L	0.625		92.8	25-116				
Acenaphthylene	0.660	0.0500	"	0.625		106	26-116				
Anthracene	0.750	0.0500	"	0.625		120	25-123				
Benzo(a)anthracene	0.790	0.0500	"	0.625		126	33-125	High Bias			
Benzo(a)pyrene	0.690	0.0500	"	0.625		110	32-132				
Benzo(b)fluoranthene	0.670	0.0500	"	0.625		107	22-137				
Benzo(g,h,i)perylene	1.09	0.0500	"	0.625		174	10-138	High Bias			
Benzo(k)fluoranthene	0.700	0.0500	"	0.625		112	20-137				
Bis(2-ethylhexyl)phthalate	0.990	0.500	"	0.625		158	10-189				
Chrysene	0.810	0.0500	"	0.625		130	32-124	High Bias			
Dibenzo(a,h)anthracene	1.05	0.0500	"	0.625		168	16-133	High Bias			
Fluoranthene	0.690	0.0500	"	0.625		110	32-121				
Fluorene	0.710	0.0500	"	0.625		114	28-118				
Hexachlorobenzene	0.690	0.0200	"	0.625		110	23-124				
Hexachlorobutadiene	ND	0.500	"	0.625			15-123	Low Bias			
Hexachloroethane	2.53	0.500	"	0.625		405	18-115	High Bias			
Indeno(1,2,3-cd)pyrene	1.04	0.0500	"	0.625		166	15-135	High Bias			
Naphthalene	0.520	0.0500	"	0.625		83.2	18-120				
Nitrobenzene	0.350	0.250	"	0.625		56.0	21-121				
N-Nitrosodimethylamine	ND	0.500	"	0.625			10-124	Low Bias			
Pentachlorophenol	0.510	0.250	"	0.625		81.6	10-156				
Phenanthrene	0.690	0.0500	"	0.625		110	24-127				
Pyrene	0.690	0.0500	"	0.625		110	31-132				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50896 - EPA 3510C											
Blank (BC50896-BLK1) Blank									Prepared & Analyzed: 03/13/2025		
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Diphenylamine	ND	5.00	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Isophorone	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Phenol	ND	5.00	"								
Pyridine	ND	5.00	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50896 - EPA 3510C											
Blank (BC50896-BLK1) Blank							Prepared & Analyzed: 03/13/2025				
Surrogate: SURR: 2-Fluorophenol	*12.2*		*ug/L*	*50.0*		*24.5*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*7.02*		*"*	*50.0*		*14.0*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*13.1*		*"*	*25.0*		*52.3*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*10.6*		*"*	*25.0*		*42.5*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*24.1*		*"*	*50.0*		*48.3*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*18.1*		*"*	*25.0*		*72.4*	*30.7-106*				
LCS (BC50896-BS1) LCS							Prepared & Analyzed: 03/13/2025				
1,1-Biphenyl	11.5	5.00	ug/L	25.0		46.0	33-95				
1,2,4,5-Tetrachlorobenzene	9.38	5.00	"	25.0		37.5	26-120				
1,2-Diphenylhydrazine (as Azobenzene)	18.8	5.00	"	25.0		75.0	16-141				
2,3,4,6-Tetrachlorophenol	14.8	5.00	"	25.0		59.2	30-130				
2,4,5-Trichlorophenol	11.1	5.00	"	25.0		44.5	32-114				
2,4,6-Trichlorophenol	11.4	5.00	"	25.0		45.6	35-118				
2,4-Dichlorophenol	12.8	5.00	"	25.0		51.1	25-116				
2,4-Dimethylphenol	13.2	5.00	"	25.0		52.8	15-116				
2,4-Dinitrophenol	9.64	5.00	"	25.0		38.6	10-170				
2,4-Dinitrotoluene	13.2	5.00	"	25.0		52.9	41-128				
2,6-Dinitrotoluene	13.1	5.00	"	25.0		52.3	45-116				
2-Chloronaphthalene	11.4	5.00	"	25.0		45.4	33-112				
2-Chlorophenol	9.53	5.00	"	25.0		38.1	15-120				
2-Methylnaphthalene	12.7	5.00	"	25.0		50.9	24-118				
2-Methylphenol	9.05	5.00	"	25.0		36.2	10-110				
2-Nitroaniline	12.0	5.00	"	25.0		48.1	34-129				
2-Nitrophenol	11.7	5.00	"	25.0		46.7	28-118				
3- & 4-Methylphenols	6.69	5.00	"	25.0		26.8	10-107				
3,3-Dichlorobenzidine	9.86	5.00	"	25.0		39.4	15-187				
3-Nitroaniline	9.38	5.00	"	25.0		37.5	24-134				
4,6-Dinitro-2-methylphenol	18.7	5.00	"	25.0		74.9	10-153				
4-Bromophenyl phenyl ether	12.7	5.00	"	25.0		50.9	34-120				
4-Chloro-3-methylphenol	14.8	5.00	"	25.0		59.0	20-120				
4-Chloroaniline	8.30	5.00	"	25.0		33.2	10-147				
4-Chlorophenyl phenyl ether	13.2	5.00	"	25.0		52.9	27-121				
4-Nitroaniline	10.2	5.00	"	25.0		41.0	13-134				
4-Nitrophenol	ND	5.00	"	25.0			10-131	Low Bias			
Acetophenone	11.6	5.00	"	25.0		46.4	25-110				
Aniline	4.22	5.00	"	25.0		16.9	10-117				
Benzaldehyde	10.4	5.00	"	25.0		41.7	29-117				
Benzoic acid	ND	5.00	"	25.0			30-130	Low Bias			
Benzyl alcohol	7.42	5.00	"	25.0		29.7	10-117				
Benzyl butyl phthalate	16.8	5.00	"	25.0		67.1	29-133				
Bis(2-chloroethoxy)methane	14.1	5.00	"	25.0		56.4	10-154				
Bis(2-chloroethyl)ether	10.7	5.00	"	25.0		42.7	17-125				
Bis(2-chloroisopropyl)ether	7.47	5.00	"	25.0		29.9	10-139				
Caprolactam	2.50	5.00	"	25.0		10.0	10-137				
Carbazole	18.3	5.00	"	25.0		73.0	42-126				
Dibenzofuran	13.5	5.00	"	25.0		54.0	36-113				
Diethyl phthalate	16.0	5.00	"	25.0		63.8	38-115				
Dimethyl phthalate	15.6	5.00	"	25.0		62.4	38-129				
Di-n-butyl phthalate	21.9	5.00	"	25.0		87.6	31-120				
Di-n-octyl phthalate	18.2	5.00	"	25.0		72.7	21-149				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50896 - EPA 3510C											
LCS (BC50896-BS1) LCS							Prepared & Analyzed: 03/13/2025				
Diphenylamine	17.2	5.00	ug/L	25.0		68.9	40-140				
Hexachlorocyclopentadiene	7.97	10.0	"	25.0		31.9	10-130				
Isophorone	17.3	5.00	"	25.0		69.1	25-127				
N-nitroso-di-n-propylamine	12.5	5.00	"	25.0		49.8	26-122				
N-Nitrosodiphenylamine	15.6	5.00	"	25.0		62.6	23-149				
Phenol	ND	5.00	"	25.0			10-110	Low Bias			
Pyridine	3.72	5.00	"	35.0		10.6	10-90				
Surrogate: SURR: 2-Fluorophenol	*12.9*		*"*	*50.0*		*25.8*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*7.38*		*"*	*50.0*		*14.8*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*14.9*		*"*	*25.0*		*59.4*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*12.5*		*"*	*25.0*		*49.9*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*29.3*		*"*	*50.0*		*58.7*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*18.1*		*"*	*25.0*		*72.5*	*30.7-106*				
Batch BC51062 - EPA 3510C											
Blank (BC51062-BLK1) Blank							Prepared & Analyzed: 03/14/2025				
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51062 - EPA 3510C											
Blank (BC51062-BLK1) Blank							Prepared & Analyzed: 03/14/2025				
Bis(2-chloroethoxy)methane	ND	5.00	ug/L								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Diphenylamine	ND	5.00	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Isophorone	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Phenol	ND	5.00	"								
Pyridine	ND	5.00	"								
Surrogate: SURR: 2-Fluorophenol	*15.1*		*"*	*50.0*		*30.2*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*8.76*		*"*	*50.0*		*17.5*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*15.7*		*"*	*25.0*		*62.8*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*13.1*		*"*	*25.0*		*52.5*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*25.1*		*"*	*50.0*		*50.2*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*21.8*		*"*	*25.0*		*87.2*	*30.7-106*				
LCS (BC51062-BS1) LCS							Prepared & Analyzed: 03/14/2025				
1,1-Biphenyl	20.1	5.00	ug/L	25.0		80.2	33-95				
1,2,4,5-Tetrachlorobenzene	15.7	5.00	"	25.0		62.9	26-120				
1,2-Diphenylhydrazine (as Azobenzene)	23.1	5.00	"	25.0		92.4	16-141				
2,3,4,6-Tetrachlorophenol	30.8	5.00	"	25.0		123	30-130				
2,4,5-Trichlorophenol	21.6	5.00	"	25.0		86.3	32-114				
2,4,6-Trichlorophenol	24.1	5.00	"	25.0		96.4	35-118				
2,4-Dichlorophenol	17.0	5.00	"	25.0		67.9	25-116				
2,4-Dimethylphenol	18.4	5.00	"	25.0		73.7	15-116				
2,4-Dinitrophenol	27.8	5.00	"	25.0		111	10-170				
2,4-Dinitrotoluene	26.2	5.00	"	25.0		105	41-128				
2,6-Dinitrotoluene	24.9	5.00	"	25.0		99.7	45-116				
2-Chloronaphthalene	19.8	5.00	"	25.0		79.1	33-112				
2-Chlorophenol	19.1	5.00	"	25.0		76.2	15-120				
2-Methylnaphthalene	15.8	5.00	"	25.0		63.1	24-118				
2-Methylphenol	16.7	5.00	"	25.0		66.9	10-110				
2-Nitroaniline	23.1	5.00	"	25.0		92.5	34-129				
2-Nitrophenol	15.6	5.00	"	25.0		62.4	28-118				
3- & 4-Methylphenols	13.4	5.00	"	25.0		53.6	10-107				
3,3-Dichlorobenzidine	18.3	5.00	"	25.0		73.4	15-187				
3-Nitroaniline	18.0	5.00	"	25.0		71.8	24-134				
4,6-Dinitro-2-methylphenol	28.7	5.00	"	25.0		115	10-153				
4-Bromophenyl phenyl ether	17.5	5.00	"	25.0		70.1	34-120				
4-Chloro-3-methylphenol	20.6	5.00	"	25.0		82.5	20-120				
4-Chloroaniline	10.8	5.00	"	25.0		43.3	10-147				
4-Chlorophenyl phenyl ether	23.8	5.00	"	25.0		95.2	27-121				
4-Nitroaniline	19.4	5.00	"	25.0		77.7	13-134				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51062 - EPA 3510C											
LCS (BC51062-BS1) LCS							Prepared & Analyzed: 03/14/2025				
4-Nitrophenol	ND	5.00	ug/L	25.0			10-131	Low Bias			
Acetophenone	23.0	5.00	"	25.0		92.0	25-110				
Aniline	3.80	5.00	"	25.0		15.2	10-117				
Benzaldehyde	20.7	5.00	"	25.0		82.8	29-117				
Benzoic acid	5.92	5.00	"	25.0		23.7	30-130	Low Bias			
Benzyl alcohol	16.0	5.00	"	25.0		63.9	10-117				
Benzyl butyl phthalate	33.4	5.00	"	25.0		133	29-133				
Bis(2-chloroethoxy)methane	19.2	5.00	"	25.0		77.0	10-154				
Bis(2-chloroethyl)ether	19.8	5.00	"	25.0		79.3	17-125				
Bis(2-chloroisopropyl)ether	14.8	5.00	"	25.0		59.3	10-139				
Caprolactam	3.62	5.00	"	25.0		14.5	10-137				
Carbazole	27.0	5.00	"	25.0		108	42-126				
Dibenzofuran	24.4	5.00	"	25.0		97.5	36-113				
Diethyl phthalate	32.3	5.00	"	25.0		129	38-115	High Bias			
Dimethyl phthalate	31.3	5.00	"	25.0		125	38-129				
Di-n-butyl phthalate	34.2	5.00	"	25.0		137	31-120	High Bias			
Di-n-octyl phthalate	35.4	5.00	"	25.0		141	21-149				
Diphenylamine	24.3	5.00	"	25.0		97.2	40-140				
Hexachlorocyclopentadiene	12.2	10.0	"	25.0		48.6	10-130				
Isophorone	24.6	5.00	"	25.0		98.3	25-127				
N-nitroso-di-n-propylamine	25.2	5.00	"	25.0		101	26-122				
N-Nitrosodiphenylamine	21.7	5.00	"	25.0		86.7	23-149				
Phenol	ND	5.00	"	25.0			10-110	Low Bias			
Pyridine	5.90	5.00	"	35.0		16.9	10-90				
Surrogate: SURR: 2-Fluorophenol	*24.6*		*"*	*50.0*		*49.3*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*14.8*		*"*	*50.0*		*29.6*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*20.9*		*"*	*25.0*		*83.7*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*23.1*		*"*	*25.0*		*92.4*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*43.1*		*"*	*50.0*		*86.1*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*35.4*		*"*	*25.0*		*141*	*30.7-106*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51062 - EPA 3510C											
LCS Dup (BC51062-BSD1) LCS Dup							Prepared & Analyzed: 03/14/2025				
1,1-Biphenyl	21.9	5.00	ug/L	25.0		87.7	33-95		8.86	20	
1,2,4,5-Tetrachlorobenzene	17.4	5.00	"	25.0		69.8	26-120		10.4	20	
1,2-Diphenylhydrazine (as Azobenzene)	25.1	5.00	"	25.0		100	16-141		8.26	20	
2,3,4,6-Tetrachlorophenol	34.0	5.00	"	25.0		136	30-130	High Bias	10.0	20	
2,4,5-Trichlorophenol	23.3	5.00	"	25.0		93.4	32-114		7.88	20	
2,4,6-Trichlorophenol	26.1	5.00	"	25.0		104	35-118		7.89	20	
2,4-Dichlorophenol	18.2	5.00	"	25.0		72.7	25-116		6.88	20	
2,4-Dimethylphenol	19.2	5.00	"	25.0		76.9	15-116		4.30	20	
2,4-Dinitrophenol	30.5	5.00	"	25.0		122	10-170		9.13	20	
2,4-Dinitrotoluene	28.1	5.00	"	25.0		112	41-128		6.92	20	
2,6-Dinitrotoluene	27.3	5.00	"	25.0		109	45-116		8.97	20	
2-Chloronaphthalene	21.8	5.00	"	25.0		87.2	33-112		9.81	20	
2-Chlorophenol	18.9	5.00	"	25.0		75.6	15-120		0.790	20	
2-Methylnaphthalene	17.0	5.00	"	25.0		67.9	24-118		7.27	20	
2-Methylphenol	17.2	5.00	"	25.0		68.6	10-110		2.48	20	
2-Nitroaniline	24.8	5.00	"	25.0		99.1	34-129		6.89	20	
2-Nitrophenol	17.0	5.00	"	25.0		67.8	28-118		8.23	20	
3- & 4-Methylphenols	13.8	5.00	"	25.0		55.2	10-107		2.94	20	
3,3-Dichlorobenzidine	17.3	5.00	"	25.0		69.1	15-187		5.95	20	
3-Nitroaniline	19.4	5.00	"	25.0		77.5	24-134		7.66	20	
4,6-Dinitro-2-methylphenol	32.2	5.00	"	25.0		129	10-153		11.8	20	
4-Bromophenyl phenyl ether	19.2	5.00	"	25.0		76.8	34-120		9.15	20	
4-Chloro-3-methylphenol	21.8	5.00	"	25.0		87.3	20-120		5.66	20	
4-Chloroaniline	11.2	5.00	"	25.0		45.0	10-147		3.72	20	
4-Chlorophenyl phenyl ether	25.6	5.00	"	25.0		102	27-121		7.17	20	
4-Nitroaniline	21.1	5.00	"	25.0		84.5	13-134		8.39	20	
4-Nitrophenol	ND	5.00	"	25.0			10-131	Low Bias		20	
Acetophenone	22.7	5.00	"	25.0		91.0	25-110		1.09	20	
Aniline	3.42	5.00	"	25.0		13.7	10-117		10.5	20	
Benzaldehyde	20.1	5.00	"	25.0		80.5	29-117		2.84	20	
Benzoic acid	7.98	5.00	"	25.0		31.9	30-130		29.6	20	Non-dir.
Benzyl alcohol	16.1	5.00	"	25.0		64.4	10-117		0.748	20	
Benzyl butyl phthalate	37.1	5.00	"	25.0		148	29-133	High Bias	10.5	20	
Bis(2-chloroethoxy)methane	20.2	5.00	"	25.0		80.7	10-154		4.72	20	
Bis(2-chloroethyl)ether	19.7	5.00	"	25.0		78.6	17-125		0.811	20	
Bis(2-chloroisopropyl)ether	14.8	5.00	"	25.0		59.3	10-139		0.0675	20	
Caprolactam	3.82	5.00	"	25.0		15.3	10-137		5.38	20	
Carbazole	29.1	5.00	"	25.0		117	42-126		7.73	20	
Dibenzofuran	26.2	5.00	"	25.0		105	36-113		7.28	20	
Diethyl phthalate	35.0	5.00	"	25.0		140	38-115	High Bias	8.05	20	
Dimethyl phthalate	33.4	5.00	"	25.0		134	38-129	High Bias	6.46	20	
Di-n-butyl phthalate	34.8	5.00	"	25.0		139	31-120	High Bias	1.80	20	
Di-n-octyl phthalate	40.0	5.00	"	25.0		160	21-149	High Bias	12.4	20	
Diphenylamine	26.7	5.00	"	25.0		107	40-140		9.26	20	
Hexachlorocyclopentadiene	13.7	10.0	"	25.0		54.9	10-130		12.1	20	
Isophorone	25.9	5.00	"	25.0		103	25-127		5.15	20	
N-nitroso-di-n-propylamine	25.4	5.00	"	25.0		102	26-122		1.03	20	
N-Nitrosodiphenylamine	23.4	5.00	"	25.0		93.7	23-149		7.80	20	
Phenol	ND	5.00	"	25.0			10-110	Low Bias		20	
Pyridine	3.49	5.00	"	35.0		9.97	10-90	Low Bias	51.3	20	Non-dir.
Surrogate: SURR: 2-Fluorophenol	*25.2*		*"*	*50.0*		*50.4*	*19.7-63.1*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51062 - EPA 3510C											
LCS Dup (BC51062-BSD1) LCS Dup							Prepared & Analyzed: 03/14/2025				
Surrogate: SURR: Phenol-d6	*15.1*		*ug/L*	*50.0*		*30.2*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*21.9*		*"*	*25.0*		*87.6*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*24.5*		*"*	*25.0*		*98.1*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*48.2*		*"*	*50.0*		*96.4*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*39.4*		*"*	*25.0*		*158*	*30.7-106*				
Batch BC51064 - EPA 3510C											
Blank (BC51064-BLK2) Blank							Prepared: 03/14/2025 Analyzed: 03/17/2025				
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51064 - EPA 3510C											
LCS (BC51064-BS2) LCS							Prepared & Analyzed: 03/14/2025				
Acenaphthene	0.730	0.0500	ug/L	0.625		117	25-116	High Bias			
Acenaphthylene	0.860	0.0500	"	0.625		138	26-116	High Bias			
Anthracene	0.870	0.0500	"	0.625		139	25-123	High Bias			
Benzo(a)anthracene	0.980	0.0500	"	0.625		157	33-125	High Bias			
Benzo(a)pyrene	0.820	0.0500	"	0.625		131	32-132				
Benzo(b)fluoranthene	0.820	0.0500	"	0.625		131	22-137				
Benzo(g,h,i)perylene	1.37	0.0500	"	0.625		219	10-138	High Bias			
Benzo(k)fluoranthene	0.860	0.0500	"	0.625		138	20-137	High Bias			
Bis(2-ethylhexyl)phthalate	1.23	0.500	"	0.625		197	10-189	High Bias			
Chrysene	0.990	0.0500	"	0.625		158	32-124	High Bias			
Dibenzo(a,h)anthracene	1.34	0.0500	"	0.625		214	16-133	High Bias			
Fluoranthene	0.910	0.0500	"	0.625		146	32-121	High Bias			
Fluorene	0.840	0.0500	"	0.625		134	28-118	High Bias			
Hexachlorobenzene	0.770	0.0200	"	0.625		123	23-124				
Hexachlorobutadiene	0.570	0.500	"	0.625		91.2	15-123				
Hexachloroethane	3.62	0.500	"	0.625		579	18-115	High Bias			
Indeno(1,2,3-cd)pyrene	1.31	0.0500	"	0.625		210	15-135	High Bias			
Naphthalene	0.690	0.0500	"	0.625		110	18-120				
Nitrobenzene	0.440	0.250	"	0.625		70.4	21-121				
N-Nitrosodimethylamine	ND	0.500	"	0.625			10-124	Low Bias			
Pentachlorophenol	3.40	0.250	"	0.625		544	10-156	High Bias			
Phenanthrene	0.830	0.0500	"	0.625		133	24-127	High Bias			
Pyrene	1.04	0.0500	"	0.625		166	31-132	High Bias			

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51002 - EPA 3535A											
Blank (BC51002-BLK1) Blank							Prepared: 03/13/2025 Analyzed: 03/14/2025				
1,4-Dioxane	ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8	*5.12*		*"*	*8.00*		*64.0*	*36.6-118*				
LCS (BC51002-BS1) LCS							Prepared: 03/13/2025 Analyzed: 03/14/2025				
1,4-Dioxane	3.60	0.300	ug/L	4.00		90.0	50-130				
Surrogate: 1,4-Dioxane-d8	*5.12*		*"*	*8.00*		*64.0*	*36.6-118*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51162 - EPA 1633 Prep											
Blank (BC51162-BLK1) Blank									Prepared: 03/16/2025 Analyzed: 03/17/2025		
Perfluorobutanesulfonic acid (PFBS)	ND	1.77	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.83	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	1.86	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	4.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.91	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.93	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	7.60	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	7.68	"								
Perfluoro-n-butanoic acid (PFBA)	ND	8.00	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.56	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	4.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	4.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	4.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.88	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	ND	7.50	"								
HFPO-DA (Gen-X)	ND	8.00	"								
11CL-PF3OUdS	ND	7.56	"								
9CL-PF3ONS	ND	7.48	"								
ADONA	ND	7.56	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	1.94	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.92	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	5.00	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	25.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	25.0	"								
N-MeFOSE	ND	20.0	"								
N-MeFOSA	ND	2.00	"								
N-EtFOSE	ND	20.0	"								
N-EtFOSA	ND	2.00	"								
Surrogate: M3PFBS	*26.8*		*"*	*23.3*		*115*	*25-150*				
Surrogate: M5PFHxA	*33.7*		*"*	*25.0*		*135*	*25-150*				
Surrogate: M4PFHpA	*33.6*		*"*	*25.0*		*134*	*25-150*				
Surrogate: M3PFHxS	*31.9*		*"*	*23.7*		*135*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*37.3*		*"*	*25.0*		*149*	*25-150*				
Surrogate: M6PFDA	*17.8*		*"*	*12.5*		*142*	*25-150*				
Surrogate: M7PFUdA	*17.0*		*"*	*12.5*		*136*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*16.0*		*"*	*12.5*		*128*	*25-150*				
Surrogate: M2PFTeDA	*9.87*		*"*	*12.5*		*79.0*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51162 - EPA 1633 Prep											
Blank (BC51162-BLK1) Blank								Prepared: 03/16/2025 Analyzed: 03/17/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*3.89*		*ng/L*	*100*		*3.89*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*32.9*		*"*	*24.0*		*138*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*37.7*		*"*	*50.0*		*75.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*29.3*		*"*	*25.0*		*117*	*10-150*				
Surrogate: d3-N-MeFOSAA	*55.0*		*"*	*50.0*		*110*	*25-150*				
Surrogate: d5-N-EtFOSAA	*56.5*		*"*	*50.0*		*113*	*25-150*				
Surrogate: M2-6:2 FTS	*57.1*		*"*	*47.6*		*120*	*25-200*				
Surrogate: M2-8:2 FTS	*58.6*		*"*	*48.0*		*122*	*25-200*				
Surrogate: M9PFNA	*14.1*		*"*	*12.5*		*113*	*25-150*				
Surrogate: M2-4:2 FTS	*56.3*		*"*	*46.9*		*120*	*25-150*				
Surrogate: d-N-MeFOSA	*27.8*		*"*	*25.0*		*111*	*25-150*				
Surrogate: d-N-EtFOSA	*25.4*		*"*	*25.0*		*102*	*25-150*				
Surrogate: M3HFPO-DA	*143*		*"*	*100*		*143*	*25-150*				
Surrogate: d9-N-EtFOSE	*148*		*"*	*250*		*59.2*	*25-150*				
Surrogate: d7-N-MeFOSE	*171*		*"*	*250*		*68.4*	*25-150*				
LCS (BC51162-BS1) LCS								Prepared: 03/16/2025 Analyzed: 03/17/2025			
Perfluorobutanesulfonic acid (PFBS)	38.2	1.77	ng/L	35.4		108	50-150				
Perfluorohexanoic acid (PFHxA)	38.9	2.00	"	40.0		97.2	50-150				
Perfluoroheptanoic acid (PFHpA)	38.6	2.00	"	40.0		96.4	50-150				
Perfluorohexanesulfonic acid (PFHxS)	38.3	1.83	"	36.6		105	50-150				
Perfluorooctanoic acid (PFOA)	31.1	2.00	"	40.0		77.7	50-150				
Perfluorooctanesulfonic acid (PFOS)	35.4	1.86	"	37.2		95.2	50-150				
Perfluorononanoic acid (PFNA)	38.8	2.00	"	40.0		97.1	50-150				
Perfluorodecanoic acid (PFDA)	31.8	2.00	"	40.0		79.4	50-150				
Perfluoroundecanoic acid (PFUnA)	38.4	2.00	"	40.0		95.9	50-150				
Perfluorododecanoic acid (PFDoA)	30.8	2.00	"	40.0		76.9	50-150				
Perfluorotridecanoic acid (PFTrDA)	39.7	2.00	"	40.0		99.2	50-150				
Perfluorotetradecanoic acid (PFTA)	37.8	2.00	"	40.0		94.5	50-150				
N-MeFOSAA	44.1	2.00	"	40.0		110	50-150				
N-EtFOSAA	42.5	2.00	"	40.0		106	50-150				
Perfluoropentanoic acid (PFPeA)	76.6	4.00	"	80.0		95.8	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	39.0	2.00	"	40.0		97.5	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	34.5	1.91	"	38.2		90.3	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	33.7	1.93	"	38.6		87.2	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	157	7.60	"	152		103	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	173	7.68	"	154		113	50-150				
Perfluoro-n-butanoic acid (PFBA)	119	8.00	"	160		74.4	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	88.6	3.56	"	71.2		124	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	50.3	4.00	"	80.0		62.8	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	16.4	4.00	"	80.0		20.5	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	122	4.00	"	80.0		152	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	40.0	1.88	"	37.6		106	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	160	7.50	"	150		106	50-150				
HFPO-DA (Gen-X)	81.4	8.00	"	80.0		102	50-150				
11CL-PF3OUdS	79.5	7.56	"	75.6		105	50-150				
9CL-PF3ONS	89.1	7.48	"	74.8		119	50-150				
ADONA	85.9	7.56	"	75.6		114	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51162 - EPA 1633 Prep											
LCS (BC51162-BS1) LCS								Prepared: 03/16/2025 Analyzed: 03/17/2025			
Perfluorododecanesulfonic acid (PFDoS)	28.0	1.94	ng/L	38.8		72.1	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	39.8	1.92	"	38.4		104	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	866	5.00	"	160		541	50-150	High Bias			
3-Perfluoropentyl propanoic acid (FPePA)	858	25.0	"	800		107	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	69.8	25.0	"	800		8.72	50-150	Low Bias			
N-MeFOSE	456	20.0	"	400		114	50-150				
N-MeFOSA	42.2	2.00	"	40.0		106	50-150				
N-EtFOSE	406	20.0	"	400		101	50-150				
N-EtFOSA	37.1	2.00	"	40.0		92.8	50-150				
Surrogate: M3PFBS	*26.4*		*"*	*23.3*		*113*	*25-150*				
Surrogate: M5PFHxA	*32.5*		*"*	*25.0*		*130*	*25-150*				
Surrogate: M4PFHpA	*35.6*		*"*	*25.0*		*142*	*25-150*				
Surrogate: M3PFHxS	*28.5*		*"*	*23.7*		*120*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*33.0*		*"*	*25.0*		*132*	*25-150*				
Surrogate: M6PFDA	*17.4*		*"*	*12.5*		*139*	*25-150*				
Surrogate: M7PFUdA	*17.8*		*"*	*12.5*		*142*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*16.4*		*"*	*12.5*		*132*	*25-150*				
Surrogate: M2PFTeDA	*10.9*		*"*	*12.5*		*87.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.96*		*"*	*100*		*2.96*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*30.6*		*"*	*24.0*		*128*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*34.3*		*"*	*50.0*		*68.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*28.3*		*"*	*25.0*		*113*	*10-150*				
Surrogate: d3-N-MeFOSAA	*54.7*		*"*	*50.0*		*109*	*25-150*				
Surrogate: d5-N-EtFOSAA	*53.8*		*"*	*50.0*		*108*	*25-150*				
Surrogate: M2-6:2 FTS	*50.7*		*"*	*47.6*		*107*	*25-200*				
Surrogate: M2-8:2 FTS	*52.6*		*"*	*48.0*		*110*	*25-200*				
Surrogate: M9PFNA	*13.6*		*"*	*12.5*		*108*	*25-150*				
Surrogate: M2-4:2 FTS	*48.7*		*"*	*46.9*		*104*	*25-150*				
Surrogate: d-N-MeFOSA	*27.5*		*"*	*25.0*		*110*	*25-150*				
Surrogate: d-N-EtFOSA	*24.1*		*"*	*25.0*		*96.4*	*25-150*				
Surrogate: M3HFPO-DA	*137*		*"*	*100*		*137*	*25-150*				
Surrogate: d9-N-EtFOSE	*185*		*"*	*250*		*74.2*	*25-150*				
Surrogate: d7-N-MeFOSE	*189*		*"*	*250*		*75.7*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51162 - EPA 1633 Prep											
LCS (BC51162-BS2) LCS								Prepared: 03/16/2025 Analyzed: 03/17/2025			
Perfluorobutanesulfonic acid (PFBS)	4.15	1.77	ng/L	3.54		117	50-150				
Perfluorohexanoic acid (PFHxA)	4.33	2.00	"	4.00		108	50-150				
Perfluoroheptanoic acid (PFHpA)	4.00	2.00	"	4.00		100	50-150				
Perfluorohexanesulfonic acid (PFHxS)	4.74	1.83	"	3.66		129	50-150				
Perfluorooctanoic acid (PFOA)	3.34	2.00	"	4.00		83.4	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.88	1.86	"	3.72		104	50-150				
Perfluorononanoic acid (PFNA)	4.62	2.00	"	4.00		115	50-150				
Perfluorodecanoic acid (PFDA)	3.62	2.00	"	4.00		90.4	50-150				
Perfluoroundecanoic acid (PFUnA)	3.80	2.00	"	4.00		95.0	50-150				
Perfluorododecanoic acid (PFDoA)	3.04	2.00	"	4.00		75.9	50-150				
Perfluorotridecanoic acid (PFTrDA)	3.57	2.00	"	4.00		89.3	50-150				
Perfluorotetradecanoic acid (PFTA)	3.79	2.00	"	4.00		94.7	50-150				
N-MeFOSAA	4.44	2.00	"	4.00		111	50-150				
N-EtFOSAA	4.52	2.00	"	4.00		113	50-150				
Perfluoropentanoic acid (PFPeA)	7.66	4.00	"	8.00		95.7	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.06	2.00	"	4.00		101	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.77	1.91	"	3.82		98.8	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.78	1.93	"	3.86		97.9	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	16.6	7.60	"	15.2		109	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	19.2	7.68	"	15.4		125	50-150				
Perfluoro-n-butanoic acid (PFBA)	13.2	8.00	"	16.0		82.5	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	9.21	3.56	"	7.12		129	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	3.99	4.00	"	8.00		49.9	50-150	Low Bias			
Perfluoro-4-oxapentanoic acid (PFMPA)	2.07	4.00	"	8.00		25.9	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	9.90	4.00	"	8.00		124	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	4.05	1.88	"	3.76		108	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	16.8	7.50	"	15.0		112	50-150				
HFPO-DA (Gen-X)	6.66	8.00	"	8.00		83.3	50-150				
11CL-PF3OUdS	6.65	7.56	"	7.56		88.0	50-150				
9CL-PF3ONS	7.65	7.48	"	7.48		102	50-150				
ADONA	7.39	7.56	"	7.56		97.8	50-150				
Perfluorododecanesulfonic acid (PFDoS)	2.84	1.94	"	3.88		73.3	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	4.17	1.92	"	3.84		109	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	82.0	5.00	"	16.0		512	50-150	High Bias			
3-Perfluoropentyl propanoic acid (FPePA)	80.8	25.0	"	80.0		101	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	8.51	25.0	"	80.0		10.6	50-150	Low Bias			
N-MeFOSE	43.7	20.0	"	40.0		109	50-150				
N-MeFOSA	4.43	2.00	"	4.00		111	50-150				
N-EtFOSE	43.6	20.0	"	40.0		109	50-150				
N-EtFOSA	3.81	2.00	"	4.00		95.2	50-150				
Surrogate: M3PFBS	*28.0*		*"*	*23.3*		*120*	*25-150*				
Surrogate: M5PFHxA	*31.2*		*"*	*25.0*		*125*	*25-150*				
Surrogate: M4PFHpA	*33.4*		*"*	*25.0*		*133*	*25-150*				
Surrogate: M3PFHxS	*28.0*		*"*	*23.7*		*118*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*33.0*		*"*	*25.0*		*132*	*25-150*				
Surrogate: M6PFDA	*14.9*		*"*	*12.5*		*120*	*25-150*				
Surrogate: M7PFUdA	*14.5*		*"*	*12.5*		*116*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*12.6*		*"*	*12.5*		*100*	*25-150*				
Surrogate: M2PFTeDA	*11.5*		*"*	*12.5*		*91.9*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51162 - EPA 1633 Prep											
LCS (BC51162-BS2) LCS								Prepared: 03/16/2025 Analyzed: 03/17/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.97*		*ng/L*	*100*		*4.97*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*31.9*		*"*	*24.0*		*133*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*52.8*		*"*	*50.0*		*106*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*28.3*		*"*	*25.0*		*113*	*10-150*				
Surrogate: d3-N-MeFOSAA	*54.4*		*"*	*50.0*		*109*	*25-150*				
Surrogate: d5-N-EtFOSAA	*56.0*		*"*	*50.0*		*112*	*25-150*				
Surrogate: M2-6:2 FTS	*50.4*		*"*	*47.6*		*106*	*25-200*				
Surrogate: M2-8:2 FTS	*47.6*		*"*	*48.0*		*99.2*	*25-200*				
Surrogate: M9PFNA	*13.1*		*"*	*12.5*		*105*	*25-150*				
Surrogate: M2-4:2 FTS	*51.0*		*"*	*46.9*		*109*	*25-150*				
Surrogate: d-N-MeFOSA	*25.4*		*"*	*25.0*		*101*	*25-150*				
Surrogate: d-N-EtFOSA	*23.8*		*"*	*25.0*		*95.3*	*25-150*				
Surrogate: M3HFPO-DA	*144*		*"*	*100*		*144*	*25-150*				
Surrogate: d9-N-EtFOSE	*188*		*"*	*250*		*75.1*	*25-150*				
Surrogate: d7-N-MeFOSE	*201*		*"*	*250*		*80.4*	*25-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50949 - EPA SW846-3510C Low Level											
Blank (BC50949-BLK1) Blank							Prepared & Analyzed: 03/13/2025				
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Chlordane, total	ND	0.200	"								
Surrogate: Decachlorobiphenyl	*0.104*		*"*	*0.200*		*51.9*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.101*		*"*	*0.200*		*50.7*	*30-150*				
LCS (BC50949-BS1) LCS							Prepared: 03/13/2025 Analyzed: 03/14/2025				
4,4'-DDD	0.0698	0.00400	ug/L	0.100		69.8	40-140			20	
4,4'-DDE	0.0671	0.00400	"	0.100		67.1	40-140			20	
4,4'-DDT	0.0788	0.00400	"	0.100		78.8	40-140			20	
Aldrin	0.0490	0.00400	"	0.100		49.0	40-140			20	
alpha-BHC	0.0559	0.00400	"	0.100		55.9	40-140			20	
alpha-Chlordane	0.0640	0.00400	"	0.100		64.0	40-140			20	
beta-BHC	0.0579	0.00400	"	0.100		57.9	40-140			20	
delta-BHC	0.0508	0.00400	"	0.100		50.8	40-140			20	
Dieldrin	0.0691	0.00200	"	0.100		69.1	40-140			20	
Endosulfan I	0.0719	0.00400	"	0.100		71.9	40-140			20	
Endosulfan II	0.0824	0.00400	"	0.100		82.4	40-140			20	
Endosulfan sulfate	0.0719	0.00400	"	0.100		71.9	40-140			20	
Endrin	0.0775	0.00400	"	0.100		77.5	40-140			20	
Endrin aldehyde	0.0827	0.0100	"	0.100		82.7	40-140			20	
Endrin ketone	0.0799	0.0100	"	0.100		79.9	40-140			20	
gamma-BHC (Lindane)	0.0597	0.00400	"	0.100		59.7	40-140			20	
gamma-Chlordane	0.0613	0.0100	"	0.100		61.3	40-140			20	
Heptachlor	0.0510	0.00400	"	0.100		51.0	40-140			20	
Heptachlor epoxide	0.0667	0.00400	"	0.100		66.7	40-140			20	
Methoxychlor	0.0771	0.00400	"	0.100		77.1	40-140			20	
Surrogate: Decachlorobiphenyl	*0.0880*		*"*	*0.200*		*44.0*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0975*		*"*	*0.200*		*48.8*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50947 - EPA SW846-3510C Low Level											
Blank (BC50947-BLK1) Blank							Prepared & Analyzed: 03/13/2025				
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.0530*		*"*	*0.200*		*26.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0730*		*"*	*0.200*		*36.5*	*30-120*				
LCS (BC50947-BS2) LCS							Prepared & Analyzed: 03/13/2025				
Aroclor 1016	0.431	0.0500	ug/L	1.00		43.1	40-120				
Aroclor 1260	0.478	0.0500	"	1.00		47.8	40-120				
Surrogate: Tetrachloro-m-xylene	*0.0500*		*"*	*0.200*		*25.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0930*		*"*	*0.200*		*46.5*	*30-120*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50782 - EPA 8151A											
Blank (BC50782-BLK1) Blank								Prepared: 03/11/2025 Analyzed: 03/12/2025			
2,4,5-T	ND	5.00	ug/L								
2,4,5-TP (Silvex)	ND	5.00	"								
2,4-D	ND	5.00	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*113*		*"*	*125*		*90.4*	*30-150*				
LCS (BC50782-BS1) LCS								Prepared: 03/11/2025 Analyzed: 03/12/2025			
2,4,5-T	19.8	5.00	ug/L	20.0		98.8	10-140				
2,4,5-TP (Silvex)	17.5	5.00	"	20.0		87.5	10-139				
2,4-D	17.2	5.00	"	20.0		86.2	10-140				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*113*		*"*	*125*		*90.4*	*30-150*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50840 - EPA 3015A											
Blank (BC50840-BLK1) Blank								Prepared & Analyzed: 03/12/2025			
Aluminum	ND	0.0556	mg/L								
Barium	ND	0.0278	"								
Calcium	ND	0.0556	"								
Chromium	ND	0.00556	"								
Cobalt	ND	0.00444	"								
Copper	ND	0.0222	"								
Iron	ND	0.278	"								
Lead	ND	0.00556	"								
Magnesium	ND	0.0556	"								
Manganese	ND	0.00556	"								
Nickel	ND	0.0111	"								
Potassium	ND	0.0556	"								
Silver	ND	0.00556	"								
Sodium	ND	0.556	"								
Vanadium	ND	0.0111	"								
Zinc	ND	0.0278	"								
LCS (BC50840-BS1) LCS								Prepared & Analyzed: 03/12/2025			
Aluminum	1.82		ug/mL	2.00		91.0	80-120				
Barium	1.98		"	2.00		98.8	80-120				
Calcium	1.19		"	1.00		119	80-120				
Chromium	0.198		"	0.200		98.8	80-120				
Cobalt	0.500		"	0.500		99.9	80-120				
Copper	0.250		"	0.250		100	80-120				
Iron	0.936		"	1.00		93.6	80-120				
Lead	0.488		"	0.500		97.6	80-120				
Magnesium	0.973		"	1.00		97.3	80-120				
Manganese	0.492		"	0.500		98.4	80-120				
Nickel	0.502		"	0.500		100	80-120				
Potassium	1.00		"	1.00		100	80-120				
Silver	0.0477		"	0.0500		95.4	80-120				
Sodium	0.896		"	1.00		89.6	80-120				
Vanadium	0.477		"	0.500		95.4	80-120				
Zinc	0.485		"	0.500		97.0	80-120				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50849 - EPA 3015A											
Blank (BC50849-BLK1) Blank								Prepared & Analyzed: 03/12/2025			
Aluminum - Dissolved	ND	0.0556	mg/L								
Barium - Dissolved	ND	0.0278	"								
Calcium - Dissolved	ND	0.0556	"								
Chromium - Dissolved	ND	0.00556	"								
Cobalt - Dissolved	ND	0.00444	"								
Copper - Dissolved	ND	0.0222	"								
Iron - Dissolved	ND	0.278	"								
Lead - Dissolved	ND	0.00556	"								
Magnesium - Dissolved	ND	0.0556	"								
Manganese - Dissolved	ND	0.00556	"								
Nickel - Dissolved	ND	0.0111	"								
Potassium - Dissolved	ND	0.0556	"								
Silver - Dissolved	ND	0.00556	"								
Sodium - Dissolved	ND	0.556	"								
Vanadium - Dissolved	ND	0.0111	"								
Zinc - Dissolved	ND	0.0278	"								
LCS (BC50849-BS1) LCS								Prepared & Analyzed: 03/12/2025			
Aluminum - Dissolved	1.84		ug/mL	2.00		92.2	80-120				
Barium - Dissolved	1.99		"	2.00		99.7	80-120				
Calcium - Dissolved	1.22		"	1.00		122	80-120	High Bias			
Chromium - Dissolved	0.200		"	0.200		100	80-120				
Cobalt - Dissolved	0.506		"	0.500		101	80-120				
Copper - Dissolved	0.252		"	0.250		101	80-120				
Iron - Dissolved	0.947		"	1.00		94.7	80-120				
Lead - Dissolved	0.500		"	0.500		99.9	80-120				
Magnesium - Dissolved	1.00		"	1.00		100	80-120				
Manganese - Dissolved	0.497		"	0.500		99.4	80-120				
Nickel - Dissolved	0.508		"	0.500		102	80-120				
Potassium - Dissolved	0.920		"	1.00		92.0	80-120				
Silver - Dissolved	0.0480		"	0.0500		96.0	80-120				
Sodium - Dissolved	0.977		"	1.00		97.7	80-120				
Vanadium - Dissolved	0.482		"	0.500		96.3	80-120				
Zinc - Dissolved	0.490		"	0.500		98.0	80-120				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50849 - EPA 3015A											
Duplicate (BC50849-DUP1) Duplicate	*Source sample: 25C0502-02 (TMW31_030725)							Prepared & Analyzed: 03/12/2025			
Aluminum - Dissolved	ND	0.0556	mg/L		ND					20	
Barium - Dissolved	0.208	0.0278	"		0.208				0.214	20	
Calcium - Dissolved	109	0.0556	"		110				0.790	20	
Chromium - Dissolved	ND	0.00556	"		ND					20	
Cobalt - Dissolved	ND	0.00444	"		ND					20	
Copper - Dissolved	ND	0.0222	"		ND					20	
Iron - Dissolved	ND	0.278	"		ND					20	
Lead - Dissolved	ND	0.00556	"		ND					20	
Magnesium - Dissolved	19.8	0.0556	"		19.9				0.813	20	
Manganese - Dissolved	0.431	0.00556	"		0.433				0.412	20	
Nickel - Dissolved	ND	0.0111	"		ND					20	
Potassium - Dissolved	28.8	0.0556	"		29.2				1.40	20	
Silver - Dissolved	ND	0.00556	"		ND					20	
Sodium - Dissolved	73.1	0.556	"		73.7				0.715	20	
Vanadium - Dissolved	ND	0.0111	"		ND					20	
Zinc - Dissolved	ND	0.0278	"		ND					20	
Matrix Spike (BC50849-MS1) Matrix Spike	*Source sample: 25C0502-02 (TMW31_030725)							Prepared & Analyzed: 03/12/2025			
Aluminum - Dissolved	2.25	0.0556	mg/L	2.22	ND	101	75-125				
Barium - Dissolved	2.39	0.0278	"	2.22	0.208	98.1	75-125				
Calcium - Dissolved	111	0.0556	"	1.11	110	110	75-125				
Chromium - Dissolved	0.222	0.00556	"	0.222	ND	99.8	75-125				
Cobalt - Dissolved	0.545	0.00444	"	0.556	ND	98.1	75-125				
Copper - Dissolved	0.291	0.0222	"	0.278	ND	105	75-125				
Iron - Dissolved	1.20	0.278	"	1.11	ND	108	75-125				
Lead - Dissolved	0.529	0.00556	"	0.556	ND	95.3	75-125				
Magnesium - Dissolved	21.2	0.0556	"	1.11	19.9	111	75-125				
Manganese - Dissolved	0.977	0.00556	"	0.556	0.433	98.0	75-125				
Nickel - Dissolved	0.546	0.0111	"	0.556	ND	98.2	75-125				
Potassium - Dissolved	30.2	0.0556	"	1.11	29.2	91.8	75-125				
Silver - Dissolved	0.0532	0.00556	"	0.0556	ND	95.8	75-125				
Sodium - Dissolved	75.9	0.556	"	1.11	73.7	199	75-125	High Bias			
Vanadium - Dissolved	0.553	0.0111	"	0.556	ND	99.6	75-125				
Zinc - Dissolved	0.548	0.0278	"	0.556	ND	98.6	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50849 - EPA 3015A											
Post Spike (BC50849-PS1) Post Spike	*Source sample: 25C0502-02 (TMW31_030725)							Prepared & Analyzed: 03/12/2025			
Aluminum - Dissolved	2.06		ug/mL	2.00	0.00750	103	75-125				
Barium - Dissolved	2.17		"	2.00	0.187	99.0	75-125				
Calcium - Dissolved	99.2		"	1.00	98.6	60.2	75-125	Low Bias			
Chromium - Dissolved	0.201		"	0.200	0.00320	99.0	75-125				
Cobalt - Dissolved	0.498		"	0.500	0.00180	99.2	75-125				
Copper - Dissolved	0.264		"	0.250	-0.000100	106	75-125				
Iron - Dissolved	1.08		"	1.00	0.0962	98.5	75-125				
Lead - Dissolved	0.474		"	0.500	-0.00150	94.9	75-125				
Magnesium - Dissolved	18.9		"	1.00	17.9	95.4	75-125				
Manganese - Dissolved	0.882		"	0.500	0.390	98.6	75-125				
Nickel - Dissolved	0.497		"	0.500	0.00190	99.0	75-125				
Potassium - Dissolved	27.0		"	1.00	26.3	75.3	75-125				
Silver - Dissolved	0.0498		"	0.0500	0.000100	99.4	75-125				
Sodium - Dissolved	66.8		"	1.00	66.3	48.9	75-125	Low Bias			
Vanadium - Dissolved	0.503		"	0.500	0.000200	100	75-125				
Zinc - Dissolved	0.501		"	0.500	0.0136	97.4	75-125				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50857 - EPA 3015A											
Blank (BC50857-BLK1) Blank								Prepared & Analyzed: 03/12/2025			
Antimony - Dissolved	ND	1.11	ug/L								
Arsenic - Dissolved	ND	1.11	"								
Beryllium - Dissolved	ND	0.333	"								
Cadmium - Dissolved	ND	0.556	"								
Selenium - Dissolved	ND	1.11	"								
Thallium - Dissolved	ND	1.11	"								
LCS (BC50857-BS1) LCS								Prepared & Analyzed: 03/12/2025			
Antimony - Dissolved	37.6		ug/L	50.0		75.2	80-120	Low Bias			
Arsenic - Dissolved	45.6		"	50.0		91.2	80-120				
Beryllium - Dissolved	48.0		"	50.0		96.1	80-120				
Cadmium - Dissolved	37.6		"	50.0		75.3	80-120	Low Bias			
Selenium - Dissolved	52.9		"	50.0		106	80-120				
Thallium - Dissolved	45.8		"	50.0		91.7	80-120				
Duplicate (BC50857-DUP1) Duplicate *Source sample: 25C0502-01 (TMW27_030725)								Prepared & Analyzed: 03/12/2025			
Antimony - Dissolved	ND	1.11	ug/L		ND					20	
Arsenic - Dissolved	1.95	1.11	"		2.14				8.98	20	
Beryllium - Dissolved	ND	0.333	"		ND					20	
Cadmium - Dissolved	ND	0.556	"		ND					20	
Selenium - Dissolved	4.73	1.11	"		6.06				24.7	20	Non-dir.
Thallium - Dissolved	ND	1.11	"		ND					20	
Matrix Spike (BC50857-MS1) Matrix Spike *Source sample: 25C0502-01 (TMW27_030725)								Prepared & Analyzed: 03/12/2025			
Antimony - Dissolved	42.9		ug/L	50.0	-0.398	85.8	75-125				
Arsenic - Dissolved	46.8		"	50.0	1.92	89.7	75-125				
Beryllium - Dissolved	35.6		"	50.0	0.003	71.3	75-125	Low Bias			
Cadmium - Dissolved	42.6		"	50.0	0.060	85.0	75-125				
Selenium - Dissolved	47.2		"	50.0	5.45	83.5	75-125				
Thallium - Dissolved	43.9		"	50.0	0.252	87.3	75-125				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50861 - EPA 3015A											
Blank (BC50861-BLK1) Blank							Prepared & Analyzed: 03/12/2025				
Antimony	ND	1.11	ug/L								
Arsenic	ND	1.11	"								
Beryllium	ND	0.333	"								
Cadmium	ND	0.556	"								
Selenium	1.63	1.11	"								
Thallium	ND	1.11	"								
LCS (BC50861-BS1) LCS							Prepared & Analyzed: 03/12/2025				
Antimony	44.3		ug/L	50.0		88.6	80-120				
Arsenic	45.6		"	50.0		91.2	80-120				
Beryllium	49.9		"	50.0		99.9	80-120				
Cadmium	45.5		"	50.0		90.9	80-120				
Selenium	42.1		"	50.0		84.2	80-120				
Thallium	43.2		"	50.0		86.3	80-120				
Duplicate (BC50861-DUP1) Duplicate *Source sample: 25C0502-02 (TMW31_030725)							Prepared & Analyzed: 03/12/2025				
Antimony	ND	1.11	ug/L		ND					20	
Arsenic	2.84	1.11	"		2.89				1.87	20	
Beryllium	ND	0.333	"		ND					20	
Cadmium	ND	0.556	"		ND					20	
Selenium	6.40	1.11	"		3.91				48.3	20	Non-dir.
Thallium	ND	1.11	"		ND					20	
Matrix Spike (BC50861-MS1) Matrix Spike *Source sample: 25C0502-02 (TMW31_030725)							Prepared & Analyzed: 03/12/2025				
Antimony	42.9		ug/L	50.0	-0.371	85.7	75-125				
Arsenic	48.7		"	50.0	2.60	92.3	75-125				
Beryllium	38.3		"	50.0	0.063	76.5	75-125				
Cadmium	42.5		"	50.0	0.214	84.6	75-125				
Selenium	53.4		"	50.0	3.52	99.9	75-125				
Thallium	41.5		"	50.0	-0.050	83.0	75-125				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50842 - EPA SW846-7470A												
Blank (BC50842-BLK1)	Blank								Prepared & Analyzed: 03/12/2025			
Mercury		ND	0.0002	mg/L								
Blank (BC50842-BLK2)	Blank								Prepared & Analyzed: 03/12/2025			
Mercury		ND	0.0002	mg/L								
LCS (BC50842-BS1)	LCS								Prepared & Analyzed: 03/12/2025			
Mercury		0.0020143	0.0002	mg/L	0.00200		101	80-120				
LCS (BC50842-BS2)	LCS								Prepared & Analyzed: 03/12/2025			
Mercury		0.0020227	0.0002	mg/L	0.00200		101	80-120				
Batch BC50844 - EPA SW846-7470A												
Blank (BC50844-BLK1)	Blank								Prepared & Analyzed: 03/12/2025			
Mercury - Dissolved		ND	0.0002	mg/L								
Blank (BC50844-BLK2)	Blank								Prepared & Analyzed: 03/12/2025			
Mercury - Dissolved		ND	0.0002	mg/L								
LCS (BC50844-BS1)	LCS								Prepared & Analyzed: 03/12/2025			
Mercury - Dissolved		0.0020	0.0002	mg/L	0.00200		102	80-120				
LCS (BC50844-BS2)	LCS								Prepared & Analyzed: 03/12/2025			
Mercury - Dissolved		0.0020	0.0002	mg/L	0.00200		102	80-120				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50581 - Analysis Preparation											
Blank (BC50581-BLK1) Blank								Prepared & Analyzed: 03/07/2025			
Chromium, Hexavalent	ND	0.0100	mg/L								
LCS (BC50581-BS1) LCS								Prepared & Analyzed: 03/07/2025			
Chromium, Hexavalent	0.434	0.0100	mg/L	0.500		86.7	85-115				
Batch BC50788 - Analysis Preparation											
Blank (BC50788-BLK1) Blank								Prepared & Analyzed: 03/11/2025			
Cyanide, total	ND	0.0100	mg/L								
LCS (BC50788-BS1) LCS								Prepared & Analyzed: 03/11/2025			
Cyanide, total	0.0966	0.0100	mg/L	0.100		96.6	80-120				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
25C0502-01	TMW27_030725	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
25C0502-02	TMW31_030725	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
25C0502-03	GWTB04_030725	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

S-GC	Two surrogates are used for this analysis. One surrogate recovered within control limits therefore the analysis is acceptable.
S-08	The recovery of this surrogate was outside of QC limits.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-LCS-L	The LCS recovery for this PFAS compound was below control limits.
PF-CCV-L	The CCV recovery for this PFAS compound was below control limits.
M-CCV1	The recovery for this element in the Continuing Calibration Verification (CCV) was outside the 90-110% recovery criteria.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis

Low Bias — Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This legal document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | 2161 Whitesville Rd Toms River, NJ 08755 | clientservices@yorklab.com | 800-306-YORK

YORK Project Number: 25C0502

Page 1 of 1

Report To:
Company: Langan
Address: 368 Ninth Ave 8th fl NY, NY 10001
Phone: 212-479-5400
Contact: Lexi Haley
E-mail: LHaley@langan.com

Invoice To:
Company:
Address:
Phone:
Contact:
E-mail:

YOUR Project Name / Number: Proposed Bally's Casino - Ring Road at Ferry Point Park 170773001

PO Number:

Samples Collected From: NY [X] NJ [ ] CT [ ] PA [ ] Other: (please specify)

Turn-Around Time: RUSH - Next Day [ ] RUSH - Two Day [ ] RUSH - Three Day [ ] RUSH - Four Day [ ] RUSH - Five Day [ ] Standard (6-9 Day) [X] PFAS Standard 7-10 Day [ ]

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Savannah Walters

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other:	Part 375 VOCs	Part 375 SVOCs, PCBs, Pest	Herb, TAL Metals (incl hex)	tri chrom & total cyanide	(dissolved & total), 1,4-dioxane	PFAS							Grab or Comp. G/C
TMW27_030725	3/7/25	0925	GW	10	3		2		1					X	X	X	X	X	X							G
TMW31_030725	↓	1259	GW	10	3		2		1					X	X	X	X	X	X							G
GWTB04_030725	↓	—	AQ		2									X												G

Field Filtered [X]
Lab Filtered [ ]

Comments: please cc: datamanagement@langan.com areach@langan.com & swalters@langan.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N | Containers Intact: Y / N | COC/Labels Agree: Y / N | Preservation Confirmed: Y / N
COC Complete: Y / N | COC Received: Y / N | Appropriate Sample Volumes: Y / N | Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N | Samples Submitted within Holding Times: Y / N | Corrective Action Form Required: Y / N

1. Samples Relinquished by / Company: Savannah Walters (Langan) — Date/Time: 3/7/25 16:14	1. Samples Received by / Company: [signature] — Date/Time: 3-7-25 16:14	2. Samples Relinquished by / Company: [signature] — Date/Time: 3-7-25 @ 14:15	
2. Samples Received by / Company: MAS 3/7/25 14:15 — Date/Time	3. Samples Relinquished by / Company: MAS 3/7/25 — Date/Time: 14:15	3. Samples Received by / Company: A. Husain — Date/Time: 3/7/25 14/15	
4. Samples Relinquished by / Company: A. Husain 3/7/25 — Date/Time: 21:00	4. Samples Received by / Company: — Date/Time	Samples Received in LAB by: [signature] — Date/Time: 3/7/25 21:00	Temperature: 2.0 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Report Date: 03/19/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0571

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/19/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0571

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 10, 2025 and listed below. The project was identified as your project: **170773001**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25C0571-01	TMW34_031025	Ground Water	03/10/2025	03/10/2025
25C0571-02	TMW38_031025	Ground Water	03/10/2025	03/10/2025
25C0571-03	GWDUP01_031025	Ground Water	03/10/2025	03/10/2025
25C0571-04	GWTB05_031025	Water	03/10/2025	03/10/2025

General Notes for York Project (SDG) No.: 25C0571

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By **Date:** 03/19/2025

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: TMW34_031025 **York Sample ID:** 25C0571-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 9:17 am	03/10/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **TMW34_031025** **York Sample ID:** **25C0571-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 9:17 am	03/10/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**2.95**	ICVE	ug/L	1.34	2.00	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	**Chlorobenzene**	**1.59**		ug/L	0.284	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.451	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: **TMW34_031025** **York Sample ID:** **25C0571-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 9:17 am	03/10/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**1.85**		ug/L	0.244	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**0.500**		ug/L	0.477	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	**tert-Butyl alcohol (TBA)**	**4.23**	CCVE	ug/L	0.608	1.00	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	**tert-Butylbenzene**	**0.400**		ug/L	0.367	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: TMW34_031025 **York Sample ID:** 25C0571-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 9:17 am	03/10/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/12/2025 17:10	03/12/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.3 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*79-122*

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:** EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW34_031025 **York Sample ID:** 25C0571-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 9:17 am	03/10/2025

SVOA, 8270 LOW MASTER

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-48-7	2-Methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
99-09-2	3-Nitroaniline	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND	QL-02	ug/L	5.56	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND	QL-02	ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND	CAL-E	ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	ug/L	5.56	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW34_031025 **York Sample ID:** 25C0571-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 9:17 am	03/10/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:** EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.11	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	NELAC-NY10854,PADEP-68-04440		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.56	11.1	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND	CCVE, QL-02	ug/L	0.833	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	QL-02	ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 18:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*29.4 %*	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*17.9 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*71.0 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*53.8 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*58.3 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*64.6 %*	*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:** EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: TMW34_031025 **York Sample ID:** 25C0571-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 9:17 am	03/10/2025

83-32-9	Acenaphthene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-12-7	Anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		ug/L	0.556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**2.49**		ug/L	0.556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	Chrysene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	Fluoranthene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	Fluorene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
118-74-1	Hexachlorobenzene	ND		ug/L	0.0222	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND		ug/L	0.556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.467**		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND	CCVE, ICVE	ug/L	0.278	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
62-75-9	N-Nitrosodimethylamine	ND	QL-02, CCVE	ug/L	0.556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-86-5	Pentachlorophenol	ND	CCVE	ug/L	0.278	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
85-01-8	Phenanthrene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:06	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **TMW34_031025** **York Sample ID:** **25C0571-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 9:17 am	03/10/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	**1,4-Dioxane**	**4.61**		ug/L	0.300	1	EPA 8270E SIM Certifications: NJDEP-CT005,NELAC-NY10854	03/13/2025 20:15	03/17/2025 16:22	SS

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*96.0 %*	*36.6-118*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**4.85**		ng/L	0.863	3.25	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**23.7**		ng/L	0.642	3.67	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**18.1**		ng/L	1.30	3.67	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**3.23**	J	ng/L	1.25	3.36	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
335-67-1	**Perfluorooctanoic acid (PFOA)**	**91.6**		ng/L	0.771	3.67	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.50	3.41	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.954	3.67	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	1.38	3.67	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.07	3.67	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.61	3.67	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.36	3.67	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.27	3.67	2	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
2355-31-9	N-MeFOSAA	ND		ng/L	1.45	3.67	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.89	3.67	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**28.3**		ng/L	0.422	7.34	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.61	3.67	2	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM

Sample Information

Client Sample ID: TMW34_031025 **York Sample ID:** 25C0571-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 9:17 am	03/10/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.67	3.51	2	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.42	3.54	2	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	13.8	13.9	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	3.76	14.1	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**29.7**		ng/L	0.606	14.7	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.918	6.53	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/18/2025 17:48	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	3.93	7.34	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/18/2025 17:48	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.459	7.34	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/18/2025 17:48	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.679	7.34	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/18/2025 17:48	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	1.39	3.45	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	3.29	13.8	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	5.93	14.7	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	2.53	13.9	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	1.28	13.7	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
919005-14-4	ADONA	ND		ng/L	0.973	13.9	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	1.71	3.56	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 17:48	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	1.58	3.52	2	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/18/2025 17:48	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	3.73	9.18	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 17:48	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	13.5	45.9	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 17:48	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	17.4	45.9	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 17:48	AM
24448-09-7	* N-MeFOSE	ND		ng/L	7.32	36.7	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 17:48	AM
31506-32-8	* N-MeFOSA	ND		ng/L	2.90	3.67	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 17:48	AM

Sample Information

Client Sample ID: TMW34_031025 **York Sample ID:** 25C0571-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 9:17 am	03/10/2025

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1691-99-2	* N-EtFOSE	ND		ng/L	7.32	36.7	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 17:48	AM
4151-50-2	* N-EtFOSA	ND		ng/L	3.30	3.67	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 17:48	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*85.7 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*96.6 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*125 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*115 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*94.4 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*89.7 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*91.3 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*66.6 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*41.7 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*10.8 %*	PFSu-L	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*107 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*74.0 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*97.3 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*108 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*96.6 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*411 %*	PFSu-H	*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*217 %*	PFSu-H	*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*88.7 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*279 %*	PFSu-H	*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*81.0 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*52.6 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*105 %*		*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*52.7 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*60.6 %*		*25-150*

Sample Information

Client Sample ID: TMW34_031025 **York Sample ID:** 25C0571-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 9:17 am	03/10/2025

PEST, 8081 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW34_031025 **York Sample ID:** 25C0571-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 9:17 am	03/10/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:14	SCB
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*32.4 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.1 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:42	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:42	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:42	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:42	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:42	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:42	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:42	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:42	NF
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*38.5 %*		*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*26.5 %*	S-GC, S-08	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	03/11/2025 12:18	03/13/2025 15:06	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	03/11/2025 12:18	03/13/2025 15:06	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	03/11/2025 12:18	03/13/2025 15:06	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW34_031025 **York Sample ID:** 25C0571-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 9:17 am	03/10/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*91.8 %*	*30-150*

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.546**		mg/L	0.0278	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**49.2**	M-BS	mg/L	0.0556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**8.26**		mg/L	0.278	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**50.1**		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**0.0601**		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**58.1**		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND	M-CCV 1	mg/L	0.00556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**222**		mg/L	0.556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:09	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICP Dissolved

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **TMW34_031025** **York Sample ID:** **25C0571-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 9:17 am	03/10/2025

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.426**		mg/L	0.0278	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**69.3**	M-BS	mg/L	0.0556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**0.00467**		mg/L	0.00444	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**0.424**		mg/L	0.278	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**73.6**		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**0.0836**		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**88.0**		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**327**		mg/L	0.556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:35	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:01	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.26**		ug/L	1.11	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:01	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:01	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:01	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW34_031025 **York Sample ID:** 25C0571-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 9:17 am	03/10/2025

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	**Selenium**	**2.93**		ug/L	1.11	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:01	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:01	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 08:39	03/13/2025 13:43	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**4.06**		ug/L	1.11	1	EPA 6020B	03/13/2025 08:39	03/13/2025 13:43	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	03/13/2025 08:39	03/13/2025 13:43	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	03/13/2025 08:39	03/13/2025 13:43	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**6.81**		ug/L	1.11	1	EPA 6020B	03/13/2025 08:39	03/13/2025 13:43	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	**Thallium**	**1.29**		ug/L	1.11	1	EPA 6020B	03/13/2025 08:39	03/13/2025 13:43	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/13/2025 08:05	03/13/2025 08:05	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/13/2025 08:04	03/13/2025 08:04	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	03/10/2025 20:25	03/10/2025 21:39	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **TMW34_031025** **York Sample ID:** **25C0571-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 9:17 am	03/10/2025

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	03/14/2025 14:50	03/14/2025 14:57	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.0108**		mg/L	0.0100	1	SM 4500 CN C-2016 / E-201(	03/11/2025 14:06	03/11/2025 20:17	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **TMW38_031025** **York Sample ID:** **25C0571-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 2:34 pm	03/10/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND	QL-02	ug/L	0.222	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	**1,2,4-Trimethylbenzene**	**0.480**		ug/L	0.310	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **TMW38_031025** **York Sample ID:** **25C0571-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 2:34 pm	03/10/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**1.63**		ug/L	1.34	2.00	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	**Chlorobenzene**	**2.20**		ug/L	0.284	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.451	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: **TMW38_031025** **York Sample ID:** **25C0571-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 2:34 pm	03/10/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**0.350**		ug/L	0.244	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	**tert-Butylbenzene**	**0.510**		ug/L	0.367	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **TMW38_031025** **York Sample ID:** **25C0571-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 2:34 pm	03/10/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:30	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*101 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.1 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*79-122*

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW38_031025 **York Sample ID:** 25C0571-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 2:34 pm	03/10/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-48-7	2-Methylphenol	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
99-09-2	3-Nitroaniline	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		ug/L	6.25	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CAL-E	ug/L	6.25	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E, CCVE	ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW38_031025 **York Sample ID:** 25C0571-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 2:34 pm	03/10/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.25	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND	CAL-E	ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	NELAC-NY10854,PADEP-68-04440		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	6.25	12.5	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		ug/L	0.938	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:27	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*39.8 %*	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*26.8 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*64.0 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*69.1 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*116 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*84.4 %*	*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **TMW38_031025** **York Sample ID:** **25C0571-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 2:34 pm	03/10/2025

83-32-9	Acenaphthene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-12-7	**Anthracene**	**0.138**		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		ug/L	0.625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**2.15**		ug/L	0.625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	**Chrysene**	**0.0625**		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	**Fluoranthene**	**0.112**		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	Fluorene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
118-74-1	Hexachlorobenzene	ND		ug/L	0.0250	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND		ug/L	0.625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND	CCVE, ICVE	ug/L	0.312	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-86-5	Pentachlorophenol	ND	CCVE	ug/L	0.312	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
85-01-8	**Phenanthrene**	**0.175**		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.100**		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:15	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **TMW38_031025** **York Sample ID:** **25C0571-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 2:34 pm	03/10/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	**1,4-Dioxane**	**1.06**		ug/L	0.300	1	EPA 8270E SIM Certifications: NJDEP-CT005,NELAC-NY10854	03/13/2025 20:15	03/14/2025 21:00	SS

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*104 %*	*36.6-118*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**4.44**		ng/L	0.849	3.20	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**22.2**		ng/L	0.632	3.61	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**22.2**		ng/L	1.28	3.61	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**10.0**		ng/L	1.23	3.31	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
335-67-1	**Perfluorooctanoic acid (PFOA)**	**141**		ng/L	0.759	3.61	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**7.49**		ng/L	1.48	3.36	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
375-95-1	**Perfluorononanoic acid (PFNA)**	**8.46**		ng/L	0.939	3.61	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	1.36	3.61	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.04	3.61	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.59	3.61	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.34	3.61	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.25	3.61	2	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
2355-31-9	N-MeFOSAA	ND		ng/L	1.43	3.61	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.86	3.61	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**18.1**		ng/L	0.416	7.23	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.59	3.61	2	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM

Sample Information

Client Sample ID: TMW38_031025 **York Sample ID:** 25C0571-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 2:34 pm	03/10/2025

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.64	3.45	2	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.38	3.49	2	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	13.6	13.7	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	3.70	13.9	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**19.3**		ng/L	0.596	14.5	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.903	6.43	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/18/2025 18:04	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	3.87	7.23	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/18/2025 18:04	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.452	7.23	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/18/2025 18:04	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.668	7.23	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/18/2025 18:04	AM
2706-91-4	**Perfluoro-1-pentanesulfonate (PFPeS)**	**1.78**	J	ng/L	1.37	3.40	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	3.23	13.6	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	5.84	14.5	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	2.49	13.7	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	1.26	13.5	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
919005-14-4	ADONA	ND		ng/L	0.958	13.7	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	1.68	3.50	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 18:04	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	1.55	3.47	2	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:04	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	3.67	9.03	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 18:04	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	13.2	45.2	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 18:04	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	17.1	45.2	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 18:04	AM
24448-09-7	* N-MeFOSE	ND		ng/L	7.21	36.1	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 18:04	AM
31506-32-8	* N-MeFOSA	ND		ng/L	2.85	3.61	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 18:04	AM

Sample Information

Client Sample ID: TMW38_031025 **York Sample ID:** 25C0571-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 2:34 pm	03/10/2025

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1691-99-2	* N-EtFOSE	ND		ng/L	7.21	36.1	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 18:04	AM
4151-50-2	* N-EtFOSA	ND		ng/L	3.25	3.61	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 18:04	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*81.9 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*90.4 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*122 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*82.7 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*97.0 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*85.0 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*93.9 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*74.6 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*42.7 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*18.8 %*	PFSu-L	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*114 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*85.7 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*85.2 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*109 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*104 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*294 %*	PFSu-H	*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*158 %*		*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*89.3 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*272 %*	PFSu-H	*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*86.1 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*52.7 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*100 %*		*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*69.3 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*68.7 %*		*25-150*

Sample Information

Client Sample ID: TMW38_031025 **York Sample ID:** 25C0571-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 2:34 pm	03/10/2025

PEST, 8081 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW38_031025 **York Sample ID:** 25C0571-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 2:34 pm	03/10/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:27	SCB
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*42.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*62.4 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:56	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 05:56	NF
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*44.5 %*		*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*28.5 %*	S-08, S-GC	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	03/11/2025 12:18	03/13/2025 15:14	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	03/11/2025 12:18	03/13/2025 15:14	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	03/11/2025 12:18	03/13/2025 15:14	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW38_031025 **York Sample ID:** 25C0571-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 2:34 pm	03/10/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**						
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*88.8 %*		*30-150*						

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.191**		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:13	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.592**		mg/L	0.0278	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:13	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**137**	M-BS	mg/L	0.0556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:13	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:13	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:13	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:13	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**28.3**		mg/L	0.278	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:13	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**0.00911**		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:13	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**45.2**		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:13	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**0.285**		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:13	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:13	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**43.6**		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:13	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:13	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**196**		mg/L	0.556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:13	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:13	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:13	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICP Dissolved

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **TMW38_031025** **York Sample ID:** **25C0571-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 2:34 pm	03/10/2025

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.299**		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.310**		mg/L	0.0278	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**130**	M-BS	mg/L	0.0556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**0.00633**		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**0.406**		mg/L	0.278	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**44.7**		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**0.267**		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**44.5**		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**195**		mg/L	0.556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:36	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:04	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**1.74**		ug/L	1.11	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:04	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:04	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:04	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **TMW38_031025** **York Sample ID:** **25C0571-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 2:34 pm	03/10/2025

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	**Selenium**	**2.89**		ug/L	1.11	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:04	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:04	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 08:39	03/13/2025 13:58	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**1.41**		ug/L	1.11	1	EPA 6020B	03/13/2025 08:39	03/13/2025 13:58	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	03/13/2025 08:39	03/13/2025 13:58	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	03/13/2025 08:39	03/13/2025 13:58	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**1.99**		ug/L	1.11	1	EPA 6020B	03/13/2025 08:39	03/13/2025 13:58	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 08:39	03/13/2025 13:58	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/13/2025 08:05	03/13/2025 08:05	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/13/2025 08:04	03/13/2025 08:04	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	03/10/2025 20:25	03/10/2025 21:39	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **TMW38_031025** **York Sample ID:** **25C0571-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 2:34 pm	03/10/2025

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	03/14/2025 14:50	03/14/2025 14:57	SL

Certifications:

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C-2016 / E-201(	03/12/2025 13:55	03/12/2025 19:39	CB

Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: GWDUP01_031025 **York Sample ID:** 25C0571-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 3:00 pm	03/10/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND	QL-02	ug/L	0.222	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: GWDUP01_031025 **York Sample ID:** 25C0571-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 3:00 pm	03/10/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**1.64**		ug/L	1.34	2.00	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	**Chlorobenzene**	**1.56**		ug/L	0.284	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.451	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: GWDUP01_031025 **York Sample ID:** 25C0571-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 3:00 pm	03/10/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**1.72**		ug/L	0.244	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**0.550**		ug/L	0.477	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	**tert-Butyl alcohol (TBA)**	**3.90**	CCVE	ug/L	0.608	1.00	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	**tert-Butylbenzene**	**0.440**		ug/L	0.367	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: GWDUP01_031025 **York Sample ID:** 25C0571-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 3:00 pm	03/10/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/11/2025 15:00	03/12/2025 01:58	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*98.5 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.3 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*79-122*

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: GWDUP01_031025 **York Sample ID:** 25C0571-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 3:00 pm	03/10/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-48-7	2-Methylphenol	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
99-09-2	3-Nitroaniline	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND		ug/L	6.25	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CAL-E	ug/L	6.25	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CAL-E, CCVE	ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: GWDUP01_031025 **York Sample ID:** 25C0571-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 3:00 pm	03/10/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.25	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND	CAL-E	ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	NELAC-NY10854,PADEP-68-04440		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	6.25	12.5	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND		ug/L	0.938	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND		ug/L	3.12	6.25	1	EPA 8270D	03/14/2025 08:25	03/14/2025 22:54	SR
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*42.7 %*	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*28.6 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*73.1 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*76.9 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*129 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*83.4 %*	*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: GWDUP01_031025 **York Sample ID:** 25C0571-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 3:00 pm	03/10/2025

83-32-9	**Acenaphthene**	**0.0625**		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-12-7	Anthracene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		ug/L	0.625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**3.22**		ug/L	0.625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	Chrysene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	Fluoranthene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	Fluorene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
118-74-1	Hexachlorobenzene	ND		ug/L	0.0250	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND		ug/L	0.625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.512**		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND	CCVE, ICVE	ug/L	0.312	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-86-5	Pentachlorophenol	ND	CCVE	ug/L	0.312	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
85-01-8	**Phenanthrene**	**0.0750**		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		ug/L	0.0625	1	EPA 8270D SIM	03/14/2025 08:29	03/14/2025 23:45	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: GWDUP01_031025 **York Sample ID:** 25C0571-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 3:00 pm	03/10/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	**1,4-Dioxane**	**5.58**		ug/L	0.300	1	EPA 8270E SIM Certifications: NJDEP-CT005,NELAC-NY10854	03/13/2025 20:15	03/14/2025 21:16	SS

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*92.0 %*	*36.6-118*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**4.68**		ng/L	0.863	3.25	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**26.7**		ng/L	0.643	3.67	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**17.0**		ng/L	1.30	3.67	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**2.27**	J	ng/L	1.25	3.36	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
335-67-1	**Perfluorooctanoic acid (PFOA)**	**79.3**		ng/L	0.771	3.67	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.51	3.42	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.955	3.67	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	1.38	3.67	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	2.08	3.67	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.62	3.67	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.36	3.67	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.27	3.67	2	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
2355-31-9	N-MeFOSAA	ND		ng/L	1.45	3.67	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.89	3.67	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**36.7**		ng/L	0.422	7.35	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.62	3.67	2	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM

Sample Information

Client Sample ID: GWDUP01_031025 **York Sample ID:** 25C0571-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 3:00 pm	03/10/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.67	3.51	2	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	2.42	3.54	2	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	13.8	14.0	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	3.76	14.1	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**32.2**		ng/L	0.606	14.7	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.918	6.54	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/18/2025 18:20	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	3.93	7.35	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/18/2025 18:20	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.459	7.35	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/18/2025 18:20	AM
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.680	7.35	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/16/2025 13:33	03/18/2025 18:20	AM
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	1.40	3.45	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	3.29	13.8	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	5.93	14.7	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	2.53	13.9	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	1.29	13.7	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
919005-14-4	ADONA	ND		ng/L	0.973	13.9	2	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	1.71	3.56	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 18:20	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	1.58	3.53	2	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/16/2025 13:33	03/18/2025 18:20	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	3.73	9.18	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 18:20	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	13.5	45.9	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 18:20	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	17.4	45.9	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 18:20	AM
24448-09-7	* N-MeFOSE	ND		ng/L	7.33	36.7	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 18:20	AM
31506-32-8	* N-MeFOSA	ND		ng/L	2.90	3.67	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 18:20	AM

Sample Information

Client Sample ID: GWDUP01_031025 **York Sample ID:** 25C0571-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 3:00 pm	03/10/2025

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1691-99-2	* N-EtFOSE	ND		ng/L	7.33	36.7	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 18:20	AM
4151-50-2	* N-EtFOSA	ND		ng/L	3.31	3.67	2	EPA 1633 Draft 3 Certifications:	03/16/2025 13:33	03/18/2025 18:20	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*101 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*93.1 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*122 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*106 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*103 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*87.8 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*79.6 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*69.5 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*43.3 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*8.35 %*	PFSu-L	*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*120 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*69.3 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*95.2 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*112 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*121 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*429 %*	PFSu-H	*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*226 %*	PFSu-H	*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*88.6 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*305 %*	PFSu-H	*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*77.5 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*72.1 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*98.8 %*		*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*65.5 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*66.5 %*		*25-150*

Sample Information

Client Sample ID: GWDUP01_031025 **York Sample ID:** 25C0571-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 3:00 pm	03/10/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: GWDUP01_031025 **York Sample ID:** 25C0571-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 3:00 pm	03/10/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B	03/13/2025 08:40	03/14/2025 00:40	SCB
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*35.4 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*69.7 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 06:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 06:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 06:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 06:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 06:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 06:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 06:10	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	03/13/2025 08:34	03/14/2025 06:10	NF
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*39.5 %*		*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*20.5 %*	S-08, S-GC	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	03/11/2025 12:18	03/13/2025 15:21	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	03/11/2025 12:18	03/13/2025 15:21	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	03/11/2025 12:18	03/13/2025 15:21	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: GWDUP01_031025 **York Sample ID:** 25C0571-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 3:00 pm	03/10/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**						
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*86.4 %*		*30-150*						

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:15	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.795**		mg/L	0.0278	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:15	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**71.5**	M-BS	mg/L	0.0556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:15	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:15	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**0.00467**		mg/L	0.00444	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:15	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:15	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**12.2**		mg/L	0.278	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:15	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:15	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**73.0**		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:15	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**0.0873**		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:15	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:15	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**84.7**		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:15	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:15	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**321**		mg/L	0.556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:15	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:15	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:15	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICP Dissolved

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: GWDUP01_031025 **York Sample ID:** 25C0571-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 3:00 pm	03/10/2025

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.430**		mg/L	0.0278	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**69.1**	M-BS	mg/L	0.0556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**0.00511**		mg/L	0.00444	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**0.385**		mg/L	0.278	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**73.3**		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**0.0822**		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**87.2**		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**324**		mg/L	0.556	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	03/13/2025 08:50	03/13/2025 14:37	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:08	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**1.89**		ug/L	1.11	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:08	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:08	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:08	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: GWDUP01_031025 **York Sample ID:** 25C0571-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 3:00 pm	03/10/2025

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	**Selenium**	**4.52**		ug/L	1.11	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:08	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:08	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 08:39	03/13/2025 14:02	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.10**		ug/L	1.11	1	EPA 6020B	03/13/2025 08:39	03/13/2025 14:02	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	03/13/2025 08:39	03/13/2025 14:02	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	03/13/2025 08:39	03/13/2025 14:02	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**2.26**		ug/L	1.11	1	EPA 6020B	03/13/2025 08:39	03/13/2025 14:02	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 08:39	03/13/2025 14:02	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/13/2025 08:05	03/13/2025 08:05	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/13/2025 08:04	03/13/2025 08:04	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	03/10/2025 20:25	03/10/2025 21:39	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **GWDUP01_031025** **York Sample ID:** **25C0571-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Ground Water	March 10, 2025 3:00 pm	03/10/2025

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	03/14/2025 14:50	03/14/2025 14:57	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C-2016 / E-201(	03/11/2025 14:06	03/11/2025 20:17	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: GWTB05_031025 **York Sample ID:** 25C0571-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Water	March 10, 2025 3:00 pm	03/10/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND	QL-02	ug/L	0.222	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: GWTB05_031025 **York Sample ID:** 25C0571-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Water	March 10, 2025 3:00 pm	03/10/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND		ug/L	1.34	2.00	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.451	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: GWTB05_031025 **York Sample ID:** 25C0571-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Water	March 10, 2025 3:00 pm	03/10/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **GWTB05_031025** **York Sample ID:** **25C0571-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0571	170773001	Water	March 10, 2025 3:00 pm	03/10/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/11/2025 15:00	03/11/2025 20:55	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*92.3 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*79-122*

Analytical Batch Summary

Batch ID: BC50734 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0571-01	TMW34_031025	03/10/25
25C0571-02	TMW38_031025	03/10/25
25C0571-03	GWDUP01_031025	03/10/25
BC50734-BLK1	Blank	03/10/25
BC50734-BS1	LCS	03/10/25
BC50734-DUP1	Duplicate	03/10/25
BC50734-MS1	Matrix Spike	03/10/25
BC50734-MSD1	Matrix Spike Dup	03/10/25

Batch ID: BC50782 **Preparation Method:** EPA 8151A **Prepared By:** YL

YORK Sample ID	Client Sample ID	Preparation Date
25C0571-01	TMW34_031025	03/11/25
25C0571-02	TMW38_031025	03/11/25
25C0571-03	GWDUP01_031025	03/11/25
BC50782-BLK1	Blank	03/11/25
BC50782-BS1	LCS	03/11/25

Batch ID: BC50788 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0571-01	TMW34_031025	03/11/25
25C0571-03	GWDUP01_031025	03/11/25
BC50788-BLK1	Blank	03/11/25
BC50788-BS1	LCS	03/11/25

Batch ID: BC50829 **Preparation Method:** EPA 5030B **Prepared By:** PMB

YORK Sample ID	Client Sample ID	Preparation Date
25C0571-02	TMW38_031025	03/11/25
25C0571-03	GWDUP01_031025	03/11/25
25C0571-04	GWTB05_031025	03/11/25
BC50829-BLK1	Blank	03/11/25
BC50829-BS1	LCS	03/11/25
BC50829-BSD1	LCS Dup	03/11/25

Batch ID: BC50889 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0571-02	TMW38_031025	03/12/25
BC50889-BLK1	Blank	03/12/25
BC50889-BS1	LCS	03/12/25

Batch ID: BC50912 **Preparation Method:** EPA 5030B **Prepared By:** PMB

YORK Sample ID	Client Sample ID	Preparation Date
25C0571-01	TMW34_031025	03/12/25
BC50912-BLK1	Blank	03/12/25
BC50912-BS1	LCS	03/12/25
BC50912-BSD1	LCS Dup	03/12/25

Batch ID: BC50940 **Preparation Method:** EPA SW846-7470A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
25C0571-01	TMW34_031025	03/13/25
25C0571-02	TMW38_031025	03/13/25
25C0571-03	GWDUP01_031025	03/13/25
BC50940-BLK1	Blank	03/13/25
BC50940-BLK2	Blank	03/13/25
BC50940-BS1	LCS	03/13/25
BC50940-BS2	LCS	03/13/25

Batch ID: BC50941 **Preparation Method:** EPA SW846-7470A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
25C0571-01	TMW34_031025	03/13/25
25C0571-02	TMW38_031025	03/13/25
25C0571-03	GWDUP01_031025	03/13/25
BC50941-BLK1	Blank	03/13/25
BC50941-BLK2	Blank	03/13/25
BC50941-BS1	LCS	03/13/25
BC50941-BS2	LCS	03/13/25

Batch ID: BC50946 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0571-01	TMW34_031025	03/13/25
25C0571-02	TMW38_031025	03/13/25
25C0571-03	GWDUP01_031025	03/13/25
BC50946-BLK1	Blank	03/13/25
BC50946-BS1	LCS	03/13/25
BC50946-DUP1	Duplicate	03/13/25
BC50946-MS1	Matrix Spike	03/13/25

Batch ID: BC50947 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** AJC

YORK Sample ID	Client Sample ID	Preparation Date
25C0571-01	TMW34_031025	03/13/25
25C0571-02	TMW38_031025	03/13/25
25C0571-03	GWDUP01_031025	03/13/25

BC50947-BLK1	Blank	03/13/25
BC50947-BS2	LCS	03/13/25

Batch ID: BC50949 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** AJC

YORK Sample ID	Client Sample ID	Preparation Date
25C0571-01	TMW34_031025	03/13/25
25C0571-02	TMW38_031025	03/13/25
25C0571-03	GWDUP01_031025	03/13/25
BC50949-BLK1	Blank	03/13/25
BC50949-BS1	LCS	03/13/25

Batch ID: BC50951 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0571-01	TMW34_031025	03/13/25
25C0571-02	TMW38_031025	03/13/25
25C0571-03	GWDUP01_031025	03/13/25
BC50951-BLK1	Blank	03/13/25
BC50951-BS1	LCS	03/13/25
BC50951-DUP1	Duplicate	03/13/25
BC50951-MS1	Matrix Spike	03/13/25
BC50951-PS1	Post Spike	03/13/25

Batch ID: BC50956 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0571-01	TMW34_031025	03/13/25
25C0571-02	TMW38_031025	03/13/25
25C0571-03	GWDUP01_031025	03/13/25
BC50956-BLK1	Blank	03/13/25
BC50956-BS1	LCS	03/13/25

Batch ID: BC50961 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0571-01	TMW34_031025	03/13/25
25C0571-02	TMW38_031025	03/13/25
25C0571-03	GWDUP01_031025	03/13/25
BC50961-BLK1	Blank	03/13/25
BC50961-BS1	LCS	03/13/25

Batch ID: BC51002 **Preparation Method:** EPA 3535A **Prepared By:** NMB2

YORK Sample ID	Client Sample ID	Preparation Date
25C0571-01	TMW34_031025	03/13/25
25C0571-02	TMW38_031025	03/13/25
25C0571-03	GWDUP01_031025	03/13/25

BC51002-BLK1	Blank	03/13/25
BC51002-BS1	LCS	03/13/25

Batch ID: BC51062 **Preparation Method:** EPA 3510C **Prepared By:** SAC2

YORK Sample ID	Client Sample ID	Preparation Date
25C0571-02	TMW38_031025	03/14/25
25C0571-03	GWDUP01_031025	03/14/25
BC51062-BLK1	Blank	03/14/25
BC51062-BS1	LCS	03/14/25
BC51062-BSD1	LCS Dup	03/14/25

Batch ID: BC51064 **Preparation Method:** EPA 3510C **Prepared By:** SAC2

YORK Sample ID	Client Sample ID	Preparation Date
25C0571-02	TMW38_031025	03/14/25
25C0571-03	GWDUP01_031025	03/14/25
BC51064-BLK2	Blank	03/14/25
BC51064-BS2	LCS	03/14/25

Batch ID: BC51110 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0571-01	TMW34_031025	03/14/25
25C0571-02	TMW38_031025	03/14/25
25C0571-03	GWDUP01_031025	03/14/25

Batch ID: BC51136 **Preparation Method:** EPA 3510C **Prepared By:** NMB2

YORK Sample ID	Client Sample ID	Preparation Date
25C0571-01	TMW34_031025	03/15/25
BC51136-BLK2	Blank	03/15/25
BC51136-BS2	LCS	03/15/25

Batch ID: BC51137 **Preparation Method:** EPA 3510C **Prepared By:** NMB2

YORK Sample ID	Client Sample ID	Preparation Date
25C0571-01	TMW34_031025	03/15/25
BC51137-BLK1	Blank	03/15/25
BC51137-BS1	LCS	03/15/25
BC51137-BSD1	LCS Dup	03/15/25

Batch ID: BC51162 **Preparation Method:** EPA 1633 Prep **Prepared By:** MPR

YORK Sample ID	Client Sample ID	Preparation Date
25C0571-01	TMW34_031025	03/16/25
25C0571-02	TMW38_031025	03/16/25

25C0571-03	GWDUP01_031025	03/16/25
BC51162-BLK1	Blank	03/16/25
BC51162-BS1	LCS	03/16/25
BC51162-BS2	LCS	03/16/25

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50829 - EPA 5030B											
Blank (BC50829-BLK1) Blank									Prepared & Analyzed: 03/11/2025		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	0.840	2.00	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50829 - EPA 5030B											
Blank (BC50829-BLK1) Blank								Prepared & Analyzed: 03/11/2025			
n-Butylbenzene	ND	0.500	ug/L								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*70-130*				
Surrogate: SURR: Toluene-d8	*9.25*		*"*	*10.0*		*92.5*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*79-122*				
LCS (BC50829-BS1) LCS								Prepared & Analyzed: 03/11/2025			
1,1,1,2-Tetrachloroethane	9.23		ug/L	10.0		92.3	82-126				
1,1,1-Trichloroethane	10.4		"	10.0		104	78-130				
1,1,2,2-Tetrachloroethane	8.86		"	10.0		88.6	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.8		"	10.0		118	70-130				
1,1,2-Trichloroethane	8.76		"	10.0		87.6	82-123				
1,1-Dichloroethane	9.64		"	10.0		96.4	82-129				
1,1-Dichloroethylene	10.9		"	10.0		109	70-130				
1,2,3-Trichlorobenzene	6.99		"	10.0		69.9	76-130	Low Bias			
1,2,3-Trichloropropane	8.80		"	10.0		88.0	77-128				
1,2,4-Trichlorobenzene	7.91		"	10.0		79.1	76-130				
1,2,4-Trimethylbenzene	9.35		"	10.0		93.5	82-132				
1,2-Dibromo-3-chloropropane	8.05		"	10.0		80.5	45-147				
1,2-Dibromoethane	8.98		"	10.0		89.8	83-124				
1,2-Dichlorobenzene	8.38		"	10.0		83.8	79-123				
1,2-Dichloroethane	9.95		"	10.0		99.5	73-130				
1,2-Dichloropropane	8.95		"	10.0		89.5	78-126				
1,3,5-Trimethylbenzene	9.23		"	10.0		92.3	80-131				
1,3-Dichlorobenzene	8.66		"	10.0		86.6	86-122				
1,4-Dichlorobenzene	8.72		"	10.0		87.2	85-124				
1,4-Dioxane	144		"	210		68.8	40-160				
2-Butanone	8.99		"	10.0		89.9	49-152				
2-Hexanone	8.23		"	10.0		82.3	51-146				
4-Methyl-2-pentanone	8.66		"	10.0		86.6	57-145				
Acetone	6.73		"	10.0		67.3	40-150				
Acrolein	10.0		"	10.0		100	10-153				
Acrylonitrile	9.62		"	10.0		96.2	51-150				
Benzene	10.5		"	10.0		105	85-126				
Bromochloromethane	9.86		"	10.0		98.6	77-128				
Bromodichloromethane	9.36		"	10.0		93.6	79-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50829 - EPA 5030B											
LCS (BC50829-BS1) LCS							Prepared & Analyzed: 03/11/2025				
Bromoform	9.04		ug/L	10.0		90.4	78-130				
Bromomethane	11.7		"	10.0		117	43-160				
Carbon disulfide	11.3		"	10.0		113	68-146				
Carbon tetrachloride	10.8		"	10.0		108	77-130				
Chlorobenzene	9.06		"	10.0		90.6	88-120				
Chloroethane	10.6		"	10.0		106	65-136				
Chloroform	10.2		"	10.0		102	82-128				
Chloromethane	10.0		"	10.0		100	43-155				
cis-1,2-Dichloroethylene	10.2		"	10.0		102	83-129				
cis-1,3-Dichloropropylene	9.01		"	10.0		90.1	80-130				
Cyclohexane	10.8		"	10.0		108	70-130				
Dibromochloromethane	9.16		"	10.0		91.6	80-130				
Dibromomethane	8.71		"	10.0		87.1	72-134				
Dichlorodifluoromethane	16.2		"	10.0		162	44-144	High Bias			
Ethyl Benzene	9.30		"	10.0		93.0	80-130				
Hexachlorobutadiene	8.07		"	10.0		80.7	67-146				
Isopropylbenzene	9.35		"	10.0		93.5	76-130				
Methyl acetate	11.7		"	10.0		117	70-130				
Methyl tert-butyl ether (MTBE)	9.11		"	10.0		91.1	76-130				
Methylcyclohexane	9.48		"	10.0		94.8	72-130				
Methylene chloride	9.95		"	10.0		99.5	70-130				
n-Butylbenzene	9.12		"	10.0		91.2	79-132				
n-Propylbenzene	9.14		"	10.0		91.4	78-133				
o-Xylene	9.23		"	10.0		92.3	78-130				
p- & m- Xylenes	18.0		"	20.0		90.0	77-130				
p-Isopropyltoluene	9.55		"	10.0		95.5	81-136				
sec-Butylbenzene	9.15		"	10.0		91.5	79-137				
Styrene	9.59		"	10.0		95.9	70-130				
tert-Butyl alcohol (TBA)	50.6		"	50.0		101	25-162				
tert-Butylbenzene	9.08		"	10.0		90.8	77-138				
Tetrachloroethylene	5.97		"	10.0		59.7	82-130	Low Bias			
Toluene	9.29		"	10.0		92.9	80-127				
trans-1,2-Dichloroethylene	10.0		"	10.0		100	80-130				
trans-1,3-Dichloropropylene	9.15		"	10.0		91.5	78-130				
Trichloroethylene	9.28		"	10.0		92.8	82-128				
Trichlorofluoromethane	11.4		"	10.0		114	67-139				
Vinyl Chloride	10.8		"	10.0		108	70-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.44*		*"*	*10.0*		*94.4*	*70-130*				
Surrogate: SURR: Toluene-d8	*9.51*		*"*	*10.0*		*95.1*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50829 - EPA 5030B											
LCS Dup (BC50829-BSD1) LCS Dup							Prepared & Analyzed: 03/11/2025				
1,1,1,2-Tetrachloroethane	9.55		ug/L	10.0		95.5	82-126		3.41	30	
1,1,1-Trichloroethane	10.7		"	10.0		107	78-130		2.85	20	
1,1,2,2-Tetrachloroethane	9.45		"	10.0		94.5	76-129		6.44	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.5		"	10.0		125	70-130		5.27	20	
1,1,2-Trichloroethane	9.08		"	10.0		90.8	82-123		3.59	20	
1,1-Dichloroethane	10.6		"	10.0		106	82-129		9.67	20	
1,1-Dichloroethylene	11.7		"	10.0		117	70-130		6.55	20	
1,2,3-Trichlorobenzene	8.26		"	10.0		82.6	76-130		16.7	20	
1,2,3-Trichloropropane	9.24		"	10.0		92.4	77-128		4.88	30	
1,2,4-Trichlorobenzene	8.59		"	10.0		85.9	76-130		8.24	20	
1,2,4-Trimethylbenzene	9.16		"	10.0		91.6	82-132		2.05	20	
1,2-Dibromo-3-chloropropane	8.34		"	10.0		83.4	45-147		3.54	20	
1,2-Dibromoethane	9.55		"	10.0		95.5	83-124		6.15	20	
1,2-Dichlorobenzene	8.60		"	10.0		86.0	79-123		2.59	20	
1,2-Dichloroethane	11.1		"	10.0		111	73-130		10.8	20	
1,2-Dichloropropane	8.68		"	10.0		86.8	78-126		3.06	20	
1,3,5-Trimethylbenzene	8.96		"	10.0		89.6	80-131		2.97	30	
1,3-Dichlorobenzene	8.61		"	10.0		86.1	86-122		0.579	20	
1,4-Dichlorobenzene	8.67		"	10.0		86.7	85-124		0.575	20	
1,4-Dioxane	155		"	210		73.6	40-160		6.79	20	
2-Butanone	10.6		"	10.0		106	49-152		16.2	20	
2-Hexanone	9.08		"	10.0		90.8	51-146		9.82	20	
4-Methyl-2-pentanone	9.25		"	10.0		92.5	57-145		6.59	20	
Acetone	8.06		"	10.0		80.6	40-150		18.0	20	
Acrolein	12.1		"	10.0		121	10-153		18.5	30	
Acrylonitrile	12.1		"	10.0		121	51-150		23.0	30	
Benzene	10.7		"	10.0		107	85-126		2.36	20	
Bromochloromethane	10.5		"	10.0		105	77-128		6.29	20	
Bromodichloromethane	9.28		"	10.0		92.8	79-128		0.858	20	
Bromoform	9.94		"	10.0		99.4	78-130		9.48	20	
Bromomethane	12.3		"	10.0		123	43-160		4.91	20	
Carbon disulfide	12.4		"	10.0		124	68-146		8.93	20	
Carbon tetrachloride	11.1		"	10.0		111	77-130		2.82	20	
Chlorobenzene	9.27		"	10.0		92.7	88-120		2.29	20	
Chloroethane	11.0		"	10.0		110	65-136		4.26	20	
Chloroform	10.8		"	10.0		108	82-128		5.99	20	
Chloromethane	10.5		"	10.0		105	43-155		4.09	20	
cis-1,2-Dichloroethylene	11.0		"	10.0		110	83-129		7.09	20	
cis-1,3-Dichloropropylene	8.90		"	10.0		89.0	80-130		1.23	20	
Cyclohexane	10.7		"	10.0		107	70-130		1.49	20	
Dibromochloromethane	9.64		"	10.0		96.4	80-130		5.11	20	
Dibromomethane	9.11		"	10.0		91.1	72-134		4.49	30	
Dichlorodifluoromethane	15.9		"	10.0		159	44-144	High Bias	1.68	20	
Ethyl Benzene	9.34		"	10.0		93.4	80-130		0.429	20	
Hexachlorobutadiene	8.13		"	10.0		81.3	67-146		0.741	30	
Isopropylbenzene	8.93		"	10.0		89.3	76-130		4.60	20	
Methyl acetate	15.0		"	10.0		150	70-130	High Bias	24.2	20	Non-dir.
Methyl tert-butyl ether (MTBE)	10.9		"	10.0		109	76-130		18.3	20	
Methylcyclohexane	8.89		"	10.0		88.9	72-130		6.42	20	
Methylene chloride	11.2		"	10.0		112	70-130		11.8	20	
n-Butylbenzene	8.91		"	10.0		89.1	79-132		2.33	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50829 - EPA 5030B											
LCS Dup (BC50829-BSD1) LCS Dup								Prepared & Analyzed: 03/11/2025			
n-Propylbenzene	8.74		ug/L	10.0		87.4	78-133		4.47	30	
o-Xylene	9.21		"	10.0		92.1	78-130		0.217	20	
p- & m- Xylenes	18.3		"	20.0		91.6	77-130		1.87	20	
p-Isopropyltoluene	9.28		"	10.0		92.8	81-136		2.87	30	
sec-Butylbenzene	8.83		"	10.0		88.3	79-137		3.56	30	
Styrene	9.77		"	10.0		97.7	70-130		1.86	20	
tert-Butyl alcohol (TBA)	67.4		"	50.0		135	25-162		28.6	30	
tert-Butylbenzene	8.75		"	10.0		87.5	77-138		3.70	30	
Tetrachloroethylene	5.63		"	10.0		56.3	82-130	Low Bias	5.86	20	
Toluene	8.88		"	10.0		88.8	80-127		4.51	20	
trans-1,2-Dichloroethylene	11.1		"	10.0		111	80-130		10.0	20	
trans-1,3-Dichloropropylene	9.38		"	10.0		93.8	78-130		2.48	20	
Trichloroethylene	8.70		"	10.0		87.0	82-128		6.45	20	
Trichlorofluoromethane	11.7		"	10.0		117	67-139		3.12	20	
Vinyl Chloride	11.2		"	10.0		112	70-130		3.36	20	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*70-130*				
Surrogate: SURR: Toluene-d8	*8.91*		*"*	*10.0*		*89.1*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.0*		*"*	*10.0*		*100*	*79-122*				
Batch BC50912 - EPA 5030B											
Blank (BC50912-BLK1) Blank								Prepared & Analyzed: 03/12/2025			
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50912 - EPA 5030B											
Blank (BC50912-BLK1) Blank								Prepared & Analyzed: 03/12/2025			
Bromoform	ND	0.500	ug/L								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.5*		*"*	*10.0*		*105*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.92*		*"*	*10.0*		*99.2*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50912 - EPA 5030B											
LCS (BC50912-BS1) LCS							Prepared & Analyzed: 03/12/2025				
1,1,1,2-Tetrachloroethane	9.67		ug/L	10.0		96.7	82-126				
1,1,1-Trichloroethane	9.73		"	10.0		97.3	78-136				
1,1,2,2-Tetrachloroethane	10.5		"	10.0		105	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.4		"	10.0		114	54-165				
1,1,2-Trichloroethane	9.51		"	10.0		95.1	82-123				
1,1-Dichloroethane	9.28		"	10.0		92.8	82-129				
1,1-Dichloroethylene	10.4		"	10.0		104	68-138				
1,2,3-Trichlorobenzene	8.32		"	10.0		83.2	76-136				
1,2,3-Trichloropropane	10.2		"	10.0		102	77-128				
1,2,4-Trichlorobenzene	9.04		"	10.0		90.4	76-137				
1,2,4-Trimethylbenzene	10.3		"	10.0		103	82-132				
1,2-Dibromo-3-chloropropane	9.65		"	10.0		96.5	45-147				
1,2-Dibromoethane	9.65		"	10.0		96.5	83-124				
1,2-Dichlorobenzene	9.46		"	10.0		94.6	79-123				
1,2-Dichloroethane	10.0		"	10.0		100	73-132				
1,2-Dichloropropane	9.12		"	10.0		91.2	78-126				
1,3,5-Trimethylbenzene	10.2		"	10.0		102	80-131				
1,3-Dichlorobenzene	9.63		"	10.0		96.3	86-122				
1,4-Dichlorobenzene	9.62		"	10.0		96.2	85-124				
1,4-Dioxane	162		"	210		77.1	10-349				
2-Butanone	9.22		"	10.0		92.2	49-152				
2-Hexanone	9.24		"	10.0		92.4	51-146				
4-Methyl-2-pentanone	9.59		"	10.0		95.9	57-145				
Acetone	7.18		"	10.0		71.8	14-150				
Acrolein	10.5		"	10.0		105	10-153				
Acrylonitrile	10.3		"	10.0		103	51-150				
Benzene	9.79		"	10.0		97.9	85-126				
Bromochloromethane	9.64		"	10.0		96.4	77-128				
Bromodichloromethane	9.75		"	10.0		97.5	79-128				
Bromoform	10.1		"	10.0		101	78-133				
Bromomethane	13.3		"	10.0		133	43-168				
Carbon disulfide	10.8		"	10.0		108	68-146				
Carbon tetrachloride	10.2		"	10.0		102	77-141				
Chlorobenzene	9.46		"	10.0		94.6	88-120				
Chloroethane	9.96		"	10.0		99.6	65-136				
Chloroform	9.69		"	10.0		96.9	82-128				
Chloromethane	10.1		"	10.0		101	43-155				
cis-1,2-Dichloroethylene	9.54		"	10.0		95.4	83-129				
cis-1,3-Dichloropropylene	9.43		"	10.0		94.3	80-131				
Cyclohexane	9.90		"	10.0		99.0	63-149				
Dibromochloromethane	9.93		"	10.0		99.3	80-130				
Dibromomethane	9.55		"	10.0		95.5	72-134				
Dichlorodifluoromethane	14.3		"	10.0		143	44-144				
Ethyl Benzene	9.57		"	10.0		95.7	80-131				
Hexachlorobutadiene	9.12		"	10.0		91.2	67-146				
Isopropylbenzene	10.1		"	10.0		101	76-140				
Methyl acetate	13.0		"	10.0		130	51-139				
Methyl tert-butyl ether (MTBE)	9.66		"	10.0		96.6	76-135				
Methylcyclohexane	9.60		"	10.0		96.0	72-143				
Methylene chloride	9.18		"	10.0		91.8	55-137				
n-Butylbenzene	10.4		"	10.0		104	79-132				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50912 - EPA 5030B											
LCS (BC50912-BS1) LCS							Prepared & Analyzed: 03/12/2025				
n-Propylbenzene	9.93		ug/L	10.0		99.3	78-133				
o-Xylene	9.41		"	10.0		94.1	78-130				
p- & m- Xylenes	18.8		"	20.0		93.9	77-133				
p-Isopropyltoluene	10.5		"	10.0		105	81-136				
sec-Butylbenzene	10.0		"	10.0		100	79-137				
Styrene	10.0		"	10.0		100	67-132				
tert-Butyl alcohol (TBA)	58.0		"	50.0		116	25-162				
tert-Butylbenzene	9.94		"	10.0		99.4	77-138				
Tetrachloroethylene	5.88		"	10.0		58.8	82-131	Low Bias			
Toluene	9.38		"	10.0		93.8	80-127				
trans-1,2-Dichloroethylene	9.61		"	10.0		96.1	80-132				
trans-1,3-Dichloropropylene	9.88		"	10.0		98.8	78-131				
Trichloroethylene	9.31		"	10.0		93.1	82-128				
Trichlorofluoromethane	10.8		"	10.0		108	67-139				
Vinyl Chloride	10.2		"	10.0		102	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.85*		*"*	*10.0*		*98.5*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*79-122*				
LCS Dup (BC50912-BSD1) LCS Dup							Prepared & Analyzed: 03/12/2025				
1,1,1,2-Tetrachloroethane	9.70		ug/L	10.0		97.0	82-126		0.310	30	
1,1,1-Trichloroethane	9.60		"	10.0		96.0	78-136		1.35	30	
1,1,2,2-Tetrachloroethane	10.2		"	10.0		102	76-129		2.42	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1		"	10.0		111	54-165		2.84	30	
1,1,2-Trichloroethane	9.59		"	10.0		95.9	82-123		0.838	30	
1,1-Dichloroethane	9.16		"	10.0		91.6	82-129		1.30	30	
1,1-Dichloroethylene	10.1		"	10.0		101	68-138		2.34	30	
1,2,3-Trichlorobenzene	9.23		"	10.0		92.3	76-136		10.4	30	
1,2,3-Trichloropropane	9.98		"	10.0		99.8	77-128		2.67	30	
1,2,4-Trichlorobenzene	9.38		"	10.0		93.8	76-137		3.69	30	
1,2,4-Trimethylbenzene	9.91		"	10.0		99.1	82-132		3.86	30	
1,2-Dibromo-3-chloropropane	9.39		"	10.0		93.9	45-147		2.73	30	
1,2-Dibromoethane	9.73		"	10.0		97.3	83-124		0.826	30	
1,2-Dichlorobenzene	9.35		"	10.0		93.5	79-123		1.17	30	
1,2-Dichloroethane	10.0		"	10.0		100	73-132		0.00	30	
1,2-Dichloropropane	8.96		"	10.0		89.6	78-126		1.77	30	
1,3,5-Trimethylbenzene	9.69		"	10.0		96.9	80-131		4.93	30	
1,3-Dichlorobenzene	9.43		"	10.0		94.3	86-122		2.10	30	
1,4-Dichlorobenzene	9.42		"	10.0		94.2	85-124		2.10	30	
1,4-Dioxane	170		"	210		81.0	10-349		4.96	30	
2-Butanone	9.20		"	10.0		92.0	49-152		0.217	30	
2-Hexanone	9.33		"	10.0		93.3	51-146		0.969	30	
4-Methyl-2-pentanone	9.71		"	10.0		97.1	57-145		1.24	30	
Acetone	7.17		"	10.0		71.7	14-150		0.139	30	
Acrolein	10.8		"	10.0		108	10-153		3.28	30	
Acrylonitrile	10.6		"	10.0		106	51-150		2.49	30	
Benzene	9.63		"	10.0		96.3	85-126		1.65	30	
Bromochloromethane	9.64		"	10.0		96.4	77-128		0.00	30	
Bromodichloromethane	9.72		"	10.0		97.2	79-128		0.308	30	
Bromoform	10.0		"	10.0		100	78-133		0.595	30	
Bromomethane	12.8		"	10.0		128	43-168		3.74	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50912 - EPA 5030B											
LCS Dup (BC50912-BSD1) LCS Dup							Prepared & Analyzed: 03/12/2025				
Carbon disulfide	10.7		ug/L	10.0		107	68-146		1.12	30	
Carbon tetrachloride	10.0		"	10.0		100	77-141		2.18	30	
Chlorobenzene	9.43		"	10.0		94.3	88-120		0.318	30	
Chloroethane	9.77		"	10.0		97.7	65-136		1.93	30	
Chloroform	9.66		"	10.0		96.6	82-128		0.310	30	
Chloromethane	9.48		"	10.0		94.8	43-155		6.63	30	
cis-1,2-Dichloroethylene	9.47		"	10.0		94.7	83-129		0.736	30	
cis-1,3-Dichloropropylene	9.37		"	10.0		93.7	80-131		0.638	30	
Cyclohexane	9.53		"	10.0		95.3	63-149		3.81	30	
Dibromochloromethane	10.0		"	10.0		100	80-130		0.802	30	
Dibromomethane	9.53		"	10.0		95.3	72-134		0.210	30	
Dichlorodifluoromethane	13.4		"	10.0		134	44-144		6.56	30	
Ethyl Benzene	9.44		"	10.0		94.4	80-131		1.37	30	
Hexachlorobutadiene	8.72		"	10.0		87.2	67-146		4.48	30	
Isopropylbenzene	9.57		"	10.0		95.7	76-140		5.59	30	
Methyl acetate	12.7		"	10.0		127	51-139		2.65	30	
Methyl tert-butyl ether (MTBE)	9.66		"	10.0		96.6	76-135		0.00	30	
Methylcyclohexane	9.30		"	10.0		93.0	72-143		3.17	30	
Methylene chloride	9.12		"	10.0		91.2	55-137		0.656	30	
n-Butylbenzene	9.85		"	10.0		98.5	79-132		5.72	30	
n-Propylbenzene	9.46		"	10.0		94.6	78-133		4.85	30	
o-Xylene	9.32		"	10.0		93.2	78-130		0.961	30	
p- & m- Xylenes	18.5		"	20.0		92.4	77-133		1.56	30	
p-Isopropyltoluene	10.0		"	10.0		100	81-136		4.77	30	
sec-Butylbenzene	9.62		"	10.0		96.2	79-137		4.27	30	
Styrene	9.93		"	10.0		99.3	67-132		0.702	30	
tert-Butyl alcohol (TBA)	58.7		"	50.0		117	25-162		1.15	30	
tert-Butylbenzene	9.52		"	10.0		95.2	77-138		4.32	30	
Tetrachloroethylene	5.81		"	10.0		58.1	82-131	Low Bias	1.20	30	
Toluene	9.21		"	10.0		92.1	80-127		1.83	30	
trans-1,2-Dichloroethylene	9.52		"	10.0		95.2	80-132		0.941	30	
trans-1,3-Dichloropropylene	9.84		"	10.0		98.4	78-131		0.406	30	
Trichloroethylene	9.09		"	10.0		90.9	82-128		2.39	30	
Trichlorofluoromethane	10.6		"	10.0		106	67-139		1.87	30	
Vinyl Chloride	9.71		"	10.0		97.1	58-145		4.53	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.5*		*"*	*10.0*		*105*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.74*		*"*	*10.0*		*97.4*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*79-122*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51062 - EPA 3510C											
Blank (BC51062-BLK1) Blank									Prepared & Analyzed: 03/14/2025		
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Diphenylamine	ND	5.00	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Isophorone	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Phenol	ND	5.00	"								
Pyridine	ND	5.00	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51062 - EPA 3510C											
Blank (BC51062-BLK1) Blank							Prepared & Analyzed: 03/14/2025				
Surrogate: SURR: 2-Fluorophenol	*15.1*		*ug/L*	*50.0*		*30.2*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*8.76*		*"*	*50.0*		*17.5*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*15.7*		*"*	*25.0*		*62.8*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*13.1*		*"*	*25.0*		*52.5*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*25.1*		*"*	*50.0*		*50.2*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*21.8*		*"*	*25.0*		*87.2*	*30.7-106*				
LCS (BC51062-BS1) LCS							Prepared & Analyzed: 03/14/2025				
1,1-Biphenyl	20.1	5.00	ug/L	25.0		80.2	33-95				
1,2,4,5-Tetrachlorobenzene	15.7	5.00	"	25.0		62.9	26-120				
1,2-Diphenylhydrazine (as Azobenzene)	23.1	5.00	"	25.0		92.4	16-141				
2,3,4,6-Tetrachlorophenol	30.8	5.00	"	25.0		123	30-130				
2,4,5-Trichlorophenol	21.6	5.00	"	25.0		86.3	32-114				
2,4,6-Trichlorophenol	24.1	5.00	"	25.0		96.4	35-118				
2,4-Dichlorophenol	17.0	5.00	"	25.0		67.9	25-116				
2,4-Dimethylphenol	18.4	5.00	"	25.0		73.7	15-116				
2,4-Dinitrophenol	27.8	5.00	"	25.0		111	10-170				
2,4-Dinitrotoluene	26.2	5.00	"	25.0		105	41-128				
2,6-Dinitrotoluene	24.9	5.00	"	25.0		99.7	45-116				
2-Chloronaphthalene	19.8	5.00	"	25.0		79.1	33-112				
2-Chlorophenol	19.1	5.00	"	25.0		76.2	15-120				
2-Methylnaphthalene	15.8	5.00	"	25.0		63.1	24-118				
2-Methylphenol	16.7	5.00	"	25.0		66.9	10-110				
2-Nitroaniline	23.1	5.00	"	25.0		92.5	34-129				
2-Nitrophenol	15.6	5.00	"	25.0		62.4	28-118				
3- & 4-Methylphenols	13.4	5.00	"	25.0		53.6	10-107				
3,3-Dichlorobenzidine	18.3	5.00	"	25.0		73.4	15-187				
3-Nitroaniline	18.0	5.00	"	25.0		71.8	24-134				
4,6-Dinitro-2-methylphenol	28.7	5.00	"	25.0		115	10-153				
4-Bromophenyl phenyl ether	17.5	5.00	"	25.0		70.1	34-120				
4-Chloro-3-methylphenol	20.6	5.00	"	25.0		82.5	20-120				
4-Chloroaniline	10.8	5.00	"	25.0		43.3	10-147				
4-Chlorophenyl phenyl ether	23.8	5.00	"	25.0		95.2	27-121				
4-Nitroaniline	19.4	5.00	"	25.0		77.7	13-134				
4-Nitrophenol	ND	5.00	"	25.0			10-131	Low Bias			
Acetophenone	23.0	5.00	"	25.0		92.0	25-110				
Aniline	3.80	5.00	"	25.0		15.2	10-117				
Benzaldehyde	20.7	5.00	"	25.0		82.8	29-117				
Benzoic acid	5.92	5.00	"	25.0		23.7	30-130	Low Bias			
Benzyl alcohol	16.0	5.00	"	25.0		63.9	10-117				
Benzyl butyl phthalate	33.4	5.00	"	25.0		133	29-133				
Bis(2-chloroethoxy)methane	19.2	5.00	"	25.0		77.0	10-154				
Bis(2-chloroethyl)ether	19.8	5.00	"	25.0		79.3	17-125				
Bis(2-chloroisopropyl)ether	14.8	5.00	"	25.0		59.3	10-139				
Caprolactam	3.62	5.00	"	25.0		14.5	10-137				
Carbazole	27.0	5.00	"	25.0		108	42-126				
Dibenzofuran	24.4	5.00	"	25.0		97.5	36-113				
Diethyl phthalate	32.3	5.00	"	25.0		129	38-115	High Bias			
Dimethyl phthalate	31.3	5.00	"	25.0		125	38-129				
Di-n-butyl phthalate	34.2	5.00	"	25.0		137	31-120	High Bias			
Di-n-octyl phthalate	35.4	5.00	"	25.0		141	21-149				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51062 - EPA 3510C											
LCS (BC51062-BS1) LCS							Prepared & Analyzed: 03/14/2025				
Diphenylamine	24.3	5.00	ug/L	25.0		97.2	40-140				
Hexachlorocyclopentadiene	12.2	10.0	"	25.0		48.6	10-130				
Isophorone	24.6	5.00	"	25.0		98.3	25-127				
N-nitroso-di-n-propylamine	25.2	5.00	"	25.0		101	26-122				
N-Nitrosodiphenylamine	21.7	5.00	"	25.0		86.7	23-149				
Phenol	ND	5.00	"	25.0			10-110	Low Bias			
Pyridine	5.90	5.00	"	35.0		16.9	10-90				
Surrogate: SURR: 2-Fluorophenol	*24.6*		*"*	*50.0*		*49.3*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*14.8*		*"*	*50.0*		*29.6*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*20.9*		*"*	*25.0*		*83.7*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*23.1*		*"*	*25.0*		*92.4*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*43.1*		*"*	*50.0*		*86.1*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*35.4*		*"*	*25.0*		*141*	*30.7-106*				
LCS Dup (BC51062-BSD1) LCS Dup							Prepared & Analyzed: 03/14/2025				
1,1-Biphenyl	21.9	5.00	ug/L	25.0		87.7	33-95		8.86	20	
1,2,4,5-Tetrachlorobenzene	17.4	5.00	"	25.0		69.8	26-120		10.4	20	
1,2-Diphenylhydrazine (as Azobenzene)	25.1	5.00	"	25.0		100	16-141		8.26	20	
2,3,4,6-Tetrachlorophenol	34.0	5.00	"	25.0		136	30-130	High Bias	10.0	20	
2,4,5-Trichlorophenol	23.3	5.00	"	25.0		93.4	32-114		7.88	20	
2,4,6-Trichlorophenol	26.1	5.00	"	25.0		104	35-118		7.89	20	
2,4-Dichlorophenol	18.2	5.00	"	25.0		72.7	25-116		6.88	20	
2,4-Dimethylphenol	19.2	5.00	"	25.0		76.9	15-116		4.30	20	
2,4-Dinitrophenol	30.5	5.00	"	25.0		122	10-170		9.13	20	
2,4-Dinitrotoluene	28.1	5.00	"	25.0		112	41-128		6.92	20	
2,6-Dinitrotoluene	27.3	5.00	"	25.0		109	45-116		8.97	20	
2-Chloronaphthalene	21.8	5.00	"	25.0		87.2	33-112		9.81	20	
2-Chlorophenol	18.9	5.00	"	25.0		75.6	15-120		0.790	20	
2-Methylnaphthalene	17.0	5.00	"	25.0		67.9	24-118		7.27	20	
2-Methylphenol	17.2	5.00	"	25.0		68.6	10-110		2.48	20	
2-Nitroaniline	24.8	5.00	"	25.0		99.1	34-129		6.89	20	
2-Nitrophenol	17.0	5.00	"	25.0		67.8	28-118		8.23	20	
3- & 4-Methylphenols	13.8	5.00	"	25.0		55.2	10-107		2.94	20	
3,3-Dichlorobenzidine	17.3	5.00	"	25.0		69.1	15-187		5.95	20	
3-Nitroaniline	19.4	5.00	"	25.0		77.5	24-134		7.66	20	
4,6-Dinitro-2-methylphenol	32.2	5.00	"	25.0		129	10-153		11.8	20	
4-Bromophenyl phenyl ether	19.2	5.00	"	25.0		76.8	34-120		9.15	20	
4-Chloro-3-methylphenol	21.8	5.00	"	25.0		87.3	20-120		5.66	20	
4-Chloroaniline	11.2	5.00	"	25.0		45.0	10-147		3.72	20	
4-Chlorophenyl phenyl ether	25.6	5.00	"	25.0		102	27-121		7.17	20	
4-Nitroaniline	21.1	5.00	"	25.0		84.5	13-134		8.39	20	
4-Nitrophenol	ND	5.00	"	25.0			10-131	Low Bias		20	
Acetophenone	22.7	5.00	"	25.0		91.0	25-110		1.09	20	
Aniline	3.42	5.00	"	25.0		13.7	10-117		10.5	20	
Benzaldehyde	20.1	5.00	"	25.0		80.5	29-117		2.84	20	
Benzoic acid	7.98	5.00	"	25.0		31.9	30-130		29.6	20	Non-dir.
Benzyl alcohol	16.1	5.00	"	25.0		64.4	10-117		0.748	20	
Benzyl butyl phthalate	37.1	5.00	"	25.0		148	29-133	High Bias	10.5	20	
Bis(2-chloroethoxy)methane	20.2	5.00	"	25.0		80.7	10-154		4.72	20	
Bis(2-chloroethyl)ether	19.7	5.00	"	25.0		78.6	17-125		0.811	20	
Bis(2-chloroisopropyl)ether	14.8	5.00	"	25.0		59.3	10-139		0.0675	20	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51062 - EPA 3510C											
LCS Dup (BC51062-BSD1) LCS Dup							Prepared & Analyzed: 03/14/2025				
Caprolactam	3.82	5.00	ug/L	25.0		15.3	10-137		5.38	20	
Carbazole	29.1	5.00	"	25.0		117	42-126		7.73	20	
Dibenzofuran	26.2	5.00	"	25.0		105	36-113		7.28	20	
Diethyl phthalate	35.0	5.00	"	25.0		140	38-115	High Bias	8.05	20	
Dimethyl phthalate	33.4	5.00	"	25.0		134	38-129	High Bias	6.46	20	
Di-n-butyl phthalate	34.8	5.00	"	25.0		139	31-120	High Bias	1.80	20	
Di-n-octyl phthalate	40.0	5.00	"	25.0		160	21-149	High Bias	12.4	20	
Diphenylamine	26.7	5.00	"	25.0		107	40-140		9.26	20	
Hexachlorocyclopentadiene	13.7	10.0	"	25.0		54.9	10-130		12.1	20	
Isophorone	25.9	5.00	"	25.0		103	25-127		5.15	20	
N-nitroso-di-n-propylamine	25.4	5.00	"	25.0		102	26-122		1.03	20	
N-Nitrosodiphenylamine	23.4	5.00	"	25.0		93.7	23-149		7.80	20	
Phenol	ND	5.00	"	25.0			10-110	Low Bias		20	
Pyridine	3.49	5.00	"	35.0		9.97	10-90	Low Bias	51.3	20	Non-dir.
Surrogate: SURR: 2-Fluorophenol	*25.2*		*"*	*50.0*		*50.4*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*15.1*		*"*	*50.0*		*30.2*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*21.9*		*"*	*25.0*		*87.6*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*24.5*		*"*	*25.0*		*98.1*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*48.2*		*"*	*50.0*		*96.4*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*39.4*		*"*	*25.0*		*158*	*30.7-106*				
Batch BC51064 - EPA 3510C											
Blank (BC51064-BLK2) Blank							Prepared: 03/14/2025 Analyzed: 03/17/2025				
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51064 - EPA 3510C											
LCS (BC51064-BS2) LCS							Prepared & Analyzed: 03/14/2025				
Acenaphthene	0.730	0.0500	ug/L	0.625		117	25-116	High Bias			
Acenaphthylene	0.860	0.0500	"	0.625		138	26-116	High Bias			
Anthracene	0.870	0.0500	"	0.625		139	25-123	High Bias			
Benzo(a)anthracene	0.980	0.0500	"	0.625		157	33-125	High Bias			
Benzo(a)pyrene	0.820	0.0500	"	0.625		131	32-132				
Benzo(b)fluoranthene	0.820	0.0500	"	0.625		131	22-137				
Benzo(g,h,i)perylene	1.37	0.0500	"	0.625		219	10-138	High Bias			
Benzo(k)fluoranthene	0.860	0.0500	"	0.625		138	20-137	High Bias			
Bis(2-ethylhexyl)phthalate	1.23	0.500	"	0.625		197	10-189	High Bias			
Chrysene	0.990	0.0500	"	0.625		158	32-124	High Bias			
Dibenzo(a,h)anthracene	1.34	0.0500	"	0.625		214	16-133	High Bias			
Fluoranthene	0.910	0.0500	"	0.625		146	32-121	High Bias			
Fluorene	0.840	0.0500	"	0.625		134	28-118	High Bias			
Hexachlorobenzene	0.770	0.0200	"	0.625		123	23-124				
Hexachlorobutadiene	0.570	0.500	"	0.625		91.2	15-123				
Hexachloroethane	3.62	0.500	"	0.625		579	18-115	High Bias			
Indeno(1,2,3-cd)pyrene	1.31	0.0500	"	0.625		210	15-135	High Bias			
Naphthalene	0.690	0.0500	"	0.625		110	18-120				
Nitrobenzene	0.440	0.250	"	0.625		70.4	21-121				
N-Nitrosodimethylamine	ND	0.500	"	0.625			10-124	Low Bias			
Pentachlorophenol	3.40	0.250	"	0.625		544	10-156	High Bias			
Phenanthrene	0.830	0.0500	"	0.625		133	24-127	High Bias			
Pyrene	1.04	0.0500	"	0.625		166	31-132	High Bias			
Batch BC51136 - EPA 3510C											
Blank (BC51136-BLK2) Blank							Prepared & Analyzed: 03/15/2025				
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51136 - EPA 3510C											
LCS (BC51136-BS2) LCS							Prepared & Analyzed: 03/15/2025				
Acenaphthene	1.10	0.0500	ug/L	1.25		88.0	25-116				
Acenaphthylene	1.24	0.0500	"	1.25		99.2	26-116				
Anthracene	1.19	0.0500	"	1.25		95.2	25-123				
Benzo(a)anthracene	1.25	0.0500	"	1.25		100	33-125				
Benzo(a)pyrene	1.13	0.0500	"	1.25		90.4	32-132				
Benzo(b)fluoranthene	1.10	0.0500	"	1.25		88.0	22-137				
Benzo(g,h,i)perylene	1.93	0.0500	"	1.25		154	10-138	High Bias			
Benzo(k)fluoranthene	1.15	0.0500	"	1.25		92.0	20-137				
Bis(2-ethylhexyl)phthalate	1.63	0.500	"	1.25		130	10-189				
Chrysene	1.30	0.0500	"	1.25		104	32-124				
Dibenzo(a,h)anthracene	1.88	0.0500	"	1.25		150	16-133	High Bias			
Fluoranthene	1.09	0.0500	"	1.25		87.2	32-121				
Fluorene	1.16	0.0500	"	1.25		92.8	28-118				
Hexachlorobenzene	1.39	0.0200	"	1.25		111	23-124				
Hexachlorobutadiene	1.03	0.500	"	1.25		82.4	15-123				
Hexachloroethane	5.53	0.500	"	1.25		442	18-115	High Bias			
Indeno(1,2,3-cd)pyrene	1.82	0.0500	"	1.25		146	15-135	High Bias			
Naphthalene	1.06	0.0500	"	1.25		84.8	18-120				
Nitrobenzene	0.590	0.250	"	1.25		47.2	21-121				
N-Nitrosodimethylamine	ND	0.500	"	1.25			10-124	Low Bias			
Pentachlorophenol	4.36	0.250	"	1.25		349	10-156	High Bias			
Phenanthrene	1.17	0.0500	"	1.25		93.6	24-127				
Pyrene	1.39	0.0500	"	1.25		111	31-132				
Batch BC51137 - EPA 3510C											
Blank (BC51137-BLK1) Blank							Prepared & Analyzed: 03/15/2025				
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51137 - EPA 3510C											
Blank (BC51137-BLK1) Blank								Prepared & Analyzed: 03/15/2025			
4-Chlorophenyl phenyl ether	ND	5.00	ug/L								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Diphenylamine	ND	5.00	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Isophorone	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Phenol	ND	5.00	"								
Pyridine	ND	5.00	"								
Surrogate: SURR: 2-Fluorophenol	*16.5*		*"*	*50.0*		*33.0*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*9.31*		*"*	*50.0*		*18.6*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*17.3*		*"*	*25.0*		*69.2*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*15.8*		*"*	*25.0*		*63.3*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*28.2*		*"*	*50.0*		*56.5*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*21.5*		*"*	*25.0*		*86.2*	*30.7-106*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51137 - EPA 3510C											
LCS (BC51137-BS1) LCS							Prepared & Analyzed: 03/15/2025				
1,1-Biphenyl	21.4	5.00	ug/L	25.0		85.8	33-95				
1,2,4,5-Tetrachlorobenzene	17.9	5.00	"	25.0		71.5	26-120				
1,2-Diphenylhydrazine (as Azobenzene)	26.5	5.00	"	25.0		106	16-141				
2,3,4,6-Tetrachlorophenol	25.7	5.00	"	25.0		103	30-130				
2,4,5-Trichlorophenol	20.0	5.00	"	25.0		80.1	32-114				
2,4,6-Trichlorophenol	21.2	5.00	"	25.0		84.8	35-118				
2,4-Dichlorophenol	24.8	5.00	"	25.0		99.1	25-116				
2,4-Dimethylphenol	25.8	5.00	"	25.0		103	15-116				
2,4-Dinitrophenol	28.2	5.00	"	25.0		113	10-170				
2,4-Dinitrotoluene	21.6	5.00	"	25.0		86.6	41-128				
2,6-Dinitrotoluene	22.5	5.00	"	25.0		89.9	45-116				
2-Chloronaphthalene	21.4	5.00	"	25.0		85.6	33-112				
2-Chlorophenol	18.7	5.00	"	25.0		75.0	15-120				
2-Methylnaphthalene	24.5	5.00	"	25.0		98.0	24-118				
2-Methylphenol	16.5	5.00	"	25.0		66.1	10-110				
2-Nitroaniline	20.7	5.00	"	25.0		83.0	34-129				
2-Nitrophenol	22.8	5.00	"	25.0		91.3	28-118				
3- & 4-Methylphenols	13.3	5.00	"	25.0		53.1	10-107				
3,3-Dichlorobenzidine	15.8	5.00	"	25.0		63.1	15-187				
3-Nitroaniline	15.4	5.00	"	25.0		61.4	24-134				
4,6-Dinitro-2-methylphenol	34.3	5.00	"	25.0		137	10-153				
4-Bromophenyl phenyl ether	21.6	5.00	"	25.0		86.2	34-120				
4-Chloro-3-methylphenol	26.8	5.00	"	25.0		107	20-120				
4-Chloroaniline	10.1	5.00	"	25.0		40.4	10-147				
4-Chlorophenyl phenyl ether	22.6	5.00	"	25.0		90.5	27-121				
4-Nitroaniline	16.2	5.00	"	25.0		65.0	13-134				
4-Nitrophenol	ND	5.00	"	25.0			10-131	Low Bias			
Acetophenone	22.7	5.00	"	25.0		90.7	25-110				
Aniline	ND	5.00	"	25.0			10-117	Low Bias			
Benzaldehyde	19.5	5.00	"	25.0		78.1	29-117				
Benzoic acid	11.2	5.00	"	25.0		44.6	30-130				
Benzyl alcohol	15.8	5.00	"	25.0		63.0	10-117				
Benzyl butyl phthalate	26.8	5.00	"	25.0		107	29-133				
Bis(2-chloroethoxy)methane	27.8	5.00	"	25.0		111	10-154				
Bis(2-chloroethyl)ether	20.0	5.00	"	25.0		79.9	17-125				
Bis(2-chloroisopropyl)ether	15.3	5.00	"	25.0		61.4	10-139				
Caprolactam	4.20	5.00	"	25.0		16.8	10-137				
Carbazole	26.6	5.00	"	25.0		107	42-126				
Dibenzofuran	23.6	5.00	"	25.0		94.3	36-113				
Diethyl phthalate	26.0	5.00	"	25.0		104	38-115				
Dimethyl phthalate	25.9	5.00	"	25.0		104	38-129				
Di-n-butyl phthalate	29.1	5.00	"	25.0		116	31-120				
Di-n-octyl phthalate	28.9	5.00	"	25.0		116	21-149				
Diphenylamine	29.0	5.00	"	25.0		116	40-140				
Hexachlorocyclopentadiene	17.0	10.0	"	25.0		67.8	10-130				
Isophorone	32.8	5.00	"	25.0		131	25-127	High Bias			
N-nitroso-di-n-propylamine	24.4	5.00	"	25.0		97.7	26-122				
N-Nitrosodiphenylamine	26.0	5.00	"	25.0		104	23-149				
Phenol	ND	5.00	"	25.0			10-110	Low Bias			
Pyridine	ND	5.00	"	35.0			10-90	Low Bias			
Surrogate: SURR: 2-Fluorophenol	*16.8*		*"*	*50.0*		*33.5*	*19.7-63.1*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51137 - EPA 3510C											
LCS (BC51137-BS1) LCS								Prepared & Analyzed: 03/15/2025			
Surrogate: SURR: Phenol-d6	*10.2*		*ug/L*	*50.0*		*20.4*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*20.3*		*"*	*25.0*		*81.2*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*15.8*		*"*	*25.0*		*63.2*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*32.6*		*"*	*50.0*		*65.3*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*19.4*		*"*	*25.0*		*77.8*	*30.7-106*				
LCS Dup (BC51137-BSD1) LCS Dup								Prepared & Analyzed: 03/15/2025			
1,1-Biphenyl	22.8	5.00	ug/L	25.0		91.2	33-95		6.15	20	
1,2,4,5-Tetrachlorobenzene	19.3	5.00	"	25.0		77.4	26-120		7.85	20	
1,2-Diphenylhydrazine (as Azobenzene)	32.0	5.00	"	25.0		128	16-141		18.9	20	
2,3,4,6-Tetrachlorophenol	27.2	5.00	"	25.0		109	30-130		5.48	20	
2,4,5-Trichlorophenol	21.5	5.00	"	25.0		85.9	32-114		7.04	20	
2,4,6-Trichlorophenol	22.7	5.00	"	25.0		90.8	35-118		6.88	20	
2,4-Dichlorophenol	27.2	5.00	"	25.0		109	25-116		9.17	20	
2,4-Dimethylphenol	28.2	5.00	"	25.0		113	15-116		8.86	20	
2,4-Dinitrophenol	30.9	5.00	"	25.0		123	10-170		9.01	20	
2,4-Dinitrotoluene	23.5	5.00	"	25.0		93.9	41-128		8.07	20	
2,6-Dinitrotoluene	24.2	5.00	"	25.0		96.6	45-116		7.16	20	
2-Chloronaphthalene	22.7	5.00	"	25.0		90.9	33-112		6.07	20	
2-Chlorophenol	18.9	5.00	"	25.0		75.8	15-120		1.06	20	
2-Methylnaphthalene	27.3	5.00	"	25.0		109	24-118		10.7	20	
2-Methylphenol	16.9	5.00	"	25.0		67.5	10-110		2.10	20	
2-Nitroaniline	22.2	5.00	"	25.0		88.7	34-129		6.67	20	
2-Nitrophenol	24.9	5.00	"	25.0		99.6	28-118		8.63	20	
3- & 4-Methylphenols	13.2	5.00	"	25.0		53.0	10-107		0.302	20	
3,3-Dichlorobenzidine	18.1	5.00	"	25.0		72.3	15-187		13.6	20	
3-Nitroaniline	15.3	5.00	"	25.0		61.4	24-134		0.130	20	
4,6-Dinitro-2-methylphenol	37.2	5.00	"	25.0		149	10-153		8.02	20	
4-Bromophenyl phenyl ether	23.8	5.00	"	25.0		95.2	34-120		9.83	20	
4-Chloro-3-methylphenol	29.4	5.00	"	25.0		118	20-120		9.26	20	
4-Chloroaniline	11.5	5.00	"	25.0		45.9	10-147		12.6	20	
4-Chlorophenyl phenyl ether	24.3	5.00	"	25.0		97.3	27-121		7.20	20	
4-Nitroaniline	17.0	5.00	"	25.0		68.1	13-134		4.63	20	
4-Nitrophenol	ND	5.00	"	25.0			10-131	Low Bias		20	
Acetophenone	23.1	5.00	"	25.0		92.6	25-110		2.01	20	
Aniline	ND	5.00	"	25.0			10-117	Low Bias		20	
Benzaldehyde	20.0	5.00	"	25.0		79.9	29-117		2.28	20	
Benzoic acid	12.2	5.00	"	25.0		48.9	30-130		9.24	20	
Benzyl alcohol	15.4	5.00	"	25.0		61.4	10-117		2.57	20	
Benzyl butyl phthalate	28.7	5.00	"	25.0		115	29-133		6.73	20	
Bis(2-chloroethoxy)methane	30.1	5.00	"	25.0		120	10-154		8.09	20	
Bis(2-chloroethyl)ether	20.2	5.00	"	25.0		81.0	17-125		1.39	20	
Bis(2-chloroisopropyl)ether	15.9	5.00	"	25.0		63.6	10-139		3.65	20	
Caprolactam	4.63	5.00	"	25.0		18.5	10-137		9.74	20	
Carbazole	27.5	5.00	"	25.0		110	42-126		3.36	20	
Dibenzofuran	24.3	5.00	"	25.0		97.2	36-113		3.05	20	
Diethyl phthalate	27.3	5.00	"	25.0		109	38-115		4.80	20	
Dimethyl phthalate	27.2	5.00	"	25.0		109	38-129		4.93	20	
Di-n-butyl phthalate	29.0	5.00	"	25.0		116	31-120		0.310	20	
Di-n-octyl phthalate	30.7	5.00	"	25.0		123	21-149		6.01	20	
Diphenylamine	31.1	5.00	"	25.0		124	40-140		6.79	20	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51137 - EPA 3510C											
LCS Dup (BC51137-BSD1) LCS Dup							Prepared & Analyzed: 03/15/2025				
Hexachlorocyclopentadiene	18.6	10.0	ug/L	25.0		74.4	10-130		9.28	20	
Isophorone	34.6	5.00	"	25.0		138	25-127	High Bias	5.40	20	
N-nitroso-di-n-propylamine	24.2	5.00	"	25.0		96.7	26-122		1.03	20	
N-Nitrosodiphenylamine	28.1	5.00	"	25.0		113	23-149		7.79	20	
Phenol	ND	5.00	"	25.0			10-110	Low Bias		20	
Pyridine	ND	5.00	"	35.0			10-90	Low Bias		20	
Surrogate: SURR: 2-Fluorophenol	*16.6*		*"*	*50.0*		*33.1*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*9.95*		*"*	*50.0*		*19.9*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*21.2*		*"*	*25.0*		*84.8*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*16.6*		*"*	*25.0*		*66.3*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*36.2*		*"*	*50.0*		*72.4*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*20.4*		*"*	*25.0*		*81.7*	*30.7-106*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51002 - EPA 3535A											
Blank (BC51002-BLK1) Blank							Prepared: 03/13/2025 Analyzed: 03/14/2025				
1,4-Dioxane	ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8	*5.12*		*"*	*8.00*		*64.0*	*36.6-118*				
LCS (BC51002-BS1) LCS							Prepared: 03/13/2025 Analyzed: 03/14/2025				
1,4-Dioxane	3.60	0.300	ug/L	4.00		90.0	50-130				
Surrogate: 1,4-Dioxane-d8	*5.12*		*"*	*8.00*		*64.0*	*36.6-118*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51162 - EPA 1633 Prep											
Blank (BC51162-BLK1) Blank									Prepared: 03/16/2025 Analyzed: 03/17/2025		
Perfluorobutanesulfonic acid (PFBS)	ND	1.77	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.83	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	1.86	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	4.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.91	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.93	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	7.60	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	7.68	"								
Perfluoro-n-butanoic acid (PFBA)	ND	8.00	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.56	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	4.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	4.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	4.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.88	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	ND	7.50	"								
HFPO-DA (Gen-X)	ND	8.00	"								
11CL-PF3OUdS	ND	7.56	"								
9CL-PF3ONS	ND	7.48	"								
ADONA	ND	7.56	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	1.94	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.92	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	5.00	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	25.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	25.0	"								
N-MeFOSE	ND	20.0	"								
N-MeFOSA	ND	2.00	"								
N-EtFOSE	ND	20.0	"								
N-EtFOSA	ND	2.00	"								
Surrogate: M3PFBS	*26.8*		*"*	*23.3*		*115*	*25-150*				
Surrogate: M5PFHxA	*33.7*		*"*	*25.0*		*135*	*25-150*				
Surrogate: M4PFHpA	*33.6*		*"*	*25.0*		*134*	*25-150*				
Surrogate: M3PFHxS	*31.9*		*"*	*23.7*		*135*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*37.3*		*"*	*25.0*		*149*	*25-150*				
Surrogate: M6PFDA	*17.8*		*"*	*12.5*		*142*	*25-150*				
Surrogate: M7PFUdA	*17.0*		*"*	*12.5*		*136*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*16.0*		*"*	*12.5*		*128*	*25-150*				
Surrogate: M2PFTeDA	*9.87*		*"*	*12.5*		*79.0*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51162 - EPA 1633 Prep											
Blank (BC51162-BLK1) Blank								Prepared: 03/16/2025 Analyzed: 03/17/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*3.89*		*ng/L*	*100*		*3.89*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*32.9*		*"*	*24.0*		*138*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*37.7*		*"*	*50.0*		*75.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*29.3*		*"*	*25.0*		*117*	*10-150*				
Surrogate: d3-N-MeFOSAA	*55.0*		*"*	*50.0*		*110*	*25-150*				
Surrogate: d5-N-EtFOSAA	*56.5*		*"*	*50.0*		*113*	*25-150*				
Surrogate: M2-6:2 FTS	*57.1*		*"*	*47.6*		*120*	*25-200*				
Surrogate: M2-8:2 FTS	*58.6*		*"*	*48.0*		*122*	*25-200*				
Surrogate: M9PFNA	*14.1*		*"*	*12.5*		*113*	*25-150*				
Surrogate: M2-4:2 FTS	*56.3*		*"*	*46.9*		*120*	*25-150*				
Surrogate: d-N-MeFOSA	*27.8*		*"*	*25.0*		*111*	*25-150*				
Surrogate: d-N-EtFOSA	*25.4*		*"*	*25.0*		*102*	*25-150*				
Surrogate: M3HFPO-DA	*143*		*"*	*100*		*143*	*25-150*				
Surrogate: d9-N-EtFOSE	*148*		*"*	*250*		*59.2*	*25-150*				
Surrogate: d7-N-MeFOSE	*171*		*"*	*250*		*68.4*	*25-150*				
LCS (BC51162-BS1) LCS								Prepared: 03/16/2025 Analyzed: 03/17/2025			
Perfluorobutanesulfonic acid (PFBS)	38.2	1.77	ng/L	35.4		108	50-150				
Perfluorohexanoic acid (PFHxA)	38.9	2.00	"	40.0		97.2	50-150				
Perfluoroheptanoic acid (PFHpA)	38.6	2.00	"	40.0		96.4	50-150				
Perfluorohexanesulfonic acid (PFHxS)	38.3	1.83	"	36.6		105	50-150				
Perfluorooctanoic acid (PFOA)	31.1	2.00	"	40.0		77.7	50-150				
Perfluorooctanesulfonic acid (PFOS)	35.4	1.86	"	37.2		95.2	50-150				
Perfluorononanoic acid (PFNA)	38.8	2.00	"	40.0		97.1	50-150				
Perfluorodecanoic acid (PFDA)	31.8	2.00	"	40.0		79.4	50-150				
Perfluoroundecanoic acid (PFUnA)	38.4	2.00	"	40.0		95.9	50-150				
Perfluorododecanoic acid (PFDoA)	30.8	2.00	"	40.0		76.9	50-150				
Perfluorotridecanoic acid (PFTrDA)	39.7	2.00	"	40.0		99.2	50-150				
Perfluorotetradecanoic acid (PFTA)	37.8	2.00	"	40.0		94.5	50-150				
N-MeFOSAA	44.1	2.00	"	40.0		110	50-150				
N-EtFOSAA	42.5	2.00	"	40.0		106	50-150				
Perfluoropentanoic acid (PFPeA)	76.6	4.00	"	80.0		95.8	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	39.0	2.00	"	40.0		97.5	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	34.5	1.91	"	38.2		90.3	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	33.7	1.93	"	38.6		87.2	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	157	7.60	"	152		103	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	173	7.68	"	154		113	50-150				
Perfluoro-n-butanoic acid (PFBA)	119	8.00	"	160		74.4	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	88.6	3.56	"	71.2		124	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	50.3	4.00	"	80.0		62.8	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	16.4	4.00	"	80.0		20.5	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	122	4.00	"	80.0		152	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	40.0	1.88	"	37.6		106	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	160	7.50	"	150		106	50-150				
HFPO-DA (Gen-X)	81.4	8.00	"	80.0		102	50-150				
11CL-PF3OUdS	79.5	7.56	"	75.6		105	50-150				
9CL-PF3ONS	89.1	7.48	"	74.8		119	50-150				
ADONA	85.9	7.56	"	75.6		114	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51162 - EPA 1633 Prep											
LCS (BC51162-BS1) LCS								Prepared: 03/16/2025 Analyzed: 03/17/2025			
Perfluorododecanesulfonic acid (PFDoS)	28.0	1.94	ng/L	38.8		72.1	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	39.8	1.92	"	38.4		104	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	866	5.00	"	160		541	50-150	High Bias			
3-Perfluoropentyl propanoic acid (FPePA)	858	25.0	"	800		107	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	69.8	25.0	"	800		8.72	50-150	Low Bias			
N-MeFOSE	456	20.0	"	400		114	50-150				
N-MeFOSA	42.2	2.00	"	40.0		106	50-150				
N-EtFOSE	406	20.0	"	400		101	50-150				
N-EtFOSA	37.1	2.00	"	40.0		92.8	50-150				
Surrogate: M3PFBS	*26.4*		*"*	*23.3*		*113*	*25-150*				
Surrogate: M5PFHxA	*32.5*		*"*	*25.0*		*130*	*25-150*				
Surrogate: M4PFHpA	*35.6*		*"*	*25.0*		*142*	*25-150*				
Surrogate: M3PFHxS	*28.5*		*"*	*23.7*		*120*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*33.0*		*"*	*25.0*		*132*	*25-150*				
Surrogate: M6PFDA	*17.4*		*"*	*12.5*		*139*	*25-150*				
Surrogate: M7PFUdA	*17.8*		*"*	*12.5*		*142*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*16.4*		*"*	*12.5*		*132*	*25-150*				
Surrogate: M2PFTeDA	*10.9*		*"*	*12.5*		*87.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.96*		*"*	*100*		*2.96*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*30.6*		*"*	*24.0*		*128*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*34.3*		*"*	*50.0*		*68.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*28.3*		*"*	*25.0*		*113*	*10-150*				
Surrogate: d3-N-MeFOSAA	*54.7*		*"*	*50.0*		*109*	*25-150*				
Surrogate: d5-N-EtFOSAA	*53.8*		*"*	*50.0*		*108*	*25-150*				
Surrogate: M2-6:2 FTS	*50.7*		*"*	*47.6*		*107*	*25-200*				
Surrogate: M2-8:2 FTS	*52.6*		*"*	*48.0*		*110*	*25-200*				
Surrogate: M9PFNA	*13.6*		*"*	*12.5*		*108*	*25-150*				
Surrogate: M2-4:2 FTS	*48.7*		*"*	*46.9*		*104*	*25-150*				
Surrogate: d-N-MeFOSA	*27.5*		*"*	*25.0*		*110*	*25-150*				
Surrogate: d-N-EtFOSA	*24.1*		*"*	*25.0*		*96.4*	*25-150*				
Surrogate: M3HFPO-DA	*137*		*"*	*100*		*137*	*25-150*				
Surrogate: d9-N-EtFOSE	*185*		*"*	*250*		*74.2*	*25-150*				
Surrogate: d7-N-MeFOSE	*189*		*"*	*250*		*75.7*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51162 - EPA 1633 Prep											
LCS (BC51162-BS2) LCS								Prepared: 03/16/2025 Analyzed: 03/17/2025			
Perfluorobutanesulfonic acid (PFBS)	4.15	1.77	ng/L	3.54		117	50-150				
Perfluorohexanoic acid (PFHxA)	4.33	2.00	"	4.00		108	50-150				
Perfluoroheptanoic acid (PFHpA)	4.00	2.00	"	4.00		100	50-150				
Perfluorohexanesulfonic acid (PFHxS)	4.74	1.83	"	3.66		129	50-150				
Perfluorooctanoic acid (PFOA)	3.34	2.00	"	4.00		83.4	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.88	1.86	"	3.72		104	50-150				
Perfluorononanoic acid (PFNA)	4.62	2.00	"	4.00		115	50-150				
Perfluorodecanoic acid (PFDA)	3.62	2.00	"	4.00		90.4	50-150				
Perfluoroundecanoic acid (PFUnA)	3.80	2.00	"	4.00		95.0	50-150				
Perfluorododecanoic acid (PFDoA)	3.04	2.00	"	4.00		75.9	50-150				
Perfluorotridecanoic acid (PFTrDA)	3.57	2.00	"	4.00		89.3	50-150				
Perfluorotetradecanoic acid (PFTA)	3.79	2.00	"	4.00		94.7	50-150				
N-MeFOSAA	4.44	2.00	"	4.00		111	50-150				
N-EtFOSAA	4.52	2.00	"	4.00		113	50-150				
Perfluoropentanoic acid (PFPeA)	7.66	4.00	"	8.00		95.7	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.06	2.00	"	4.00		101	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.77	1.91	"	3.82		98.8	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.78	1.93	"	3.86		97.9	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	16.6	7.60	"	15.2		109	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	19.2	7.68	"	15.4		125	50-150				
Perfluoro-n-butanoic acid (PFBA)	13.2	8.00	"	16.0		82.5	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	9.21	3.56	"	7.12		129	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	3.99	4.00	"	8.00		49.9	50-150	Low Bias			
Perfluoro-4-oxapentanoic acid (PFMPA)	2.07	4.00	"	8.00		25.9	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	9.90	4.00	"	8.00		124	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	4.05	1.88	"	3.76		108	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	16.8	7.50	"	15.0		112	50-150				
HFPO-DA (Gen-X)	6.66	8.00	"	8.00		83.3	50-150				
11CL-PF3OUdS	6.65	7.56	"	7.56		88.0	50-150				
9CL-PF3ONS	7.65	7.48	"	7.48		102	50-150				
ADONA	7.39	7.56	"	7.56		97.8	50-150				
Perfluorododecanesulfonic acid (PFDoS)	2.84	1.94	"	3.88		73.3	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	4.17	1.92	"	3.84		109	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	82.0	5.00	"	16.0		512	50-150	High Bias			
3-Perfluoropentyl propanoic acid (FPePA)	80.8	25.0	"	80.0		101	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	8.51	25.0	"	80.0		10.6	50-150	Low Bias			
N-MeFOSE	43.7	20.0	"	40.0		109	50-150				
N-MeFOSA	4.43	2.00	"	4.00		111	50-150				
N-EtFOSE	43.6	20.0	"	40.0		109	50-150				
N-EtFOSA	3.81	2.00	"	4.00		95.2	50-150				
Surrogate: M3PFBS	*28.0*		*"*	*23.3*		*120*	*25-150*				
Surrogate: M5PFHxA	*31.2*		*"*	*25.0*		*125*	*25-150*				
Surrogate: M4PFHpA	*33.4*		*"*	*25.0*		*133*	*25-150*				
Surrogate: M3PFHxS	*28.0*		*"*	*23.7*		*118*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*33.0*		*"*	*25.0*		*132*	*25-150*				
Surrogate: M6PFDA	*14.9*		*"*	*12.5*		*120*	*25-150*				
Surrogate: M7PFUdA	*14.5*		*"*	*12.5*		*116*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*12.6*		*"*	*12.5*		*100*	*25-150*				
Surrogate: M2PFTeDA	*11.5*		*"*	*12.5*		*91.9*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51162 - EPA 1633 Prep											
LCS (BC51162-BS2) LCS								Prepared: 03/16/2025 Analyzed: 03/17/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.97*		*ng/L*	*100*		*4.97*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*31.9*		*"*	*24.0*		*133*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*52.8*		*"*	*50.0*		*106*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*28.3*		*"*	*25.0*		*113*	*10-150*				
Surrogate: d3-N-MeFOSAA	*54.4*		*"*	*50.0*		*109*	*25-150*				
Surrogate: d5-N-EtFOSAA	*56.0*		*"*	*50.0*		*112*	*25-150*				
Surrogate: M2-6:2 FTS	*50.4*		*"*	*47.6*		*106*	*25-200*				
Surrogate: M2-8:2 FTS	*47.6*		*"*	*48.0*		*99.2*	*25-200*				
Surrogate: M9PFNA	*13.1*		*"*	*12.5*		*105*	*25-150*				
Surrogate: M2-4:2 FTS	*51.0*		*"*	*46.9*		*109*	*25-150*				
Surrogate: d-N-MeFOSA	*25.4*		*"*	*25.0*		*101*	*25-150*				
Surrogate: d-N-EtFOSA	*23.8*		*"*	*25.0*		*95.3*	*25-150*				
Surrogate: M3HFPO-DA	*144*		*"*	*100*		*144*	*25-150*				
Surrogate: d9-N-EtFOSE	*188*		*"*	*250*		*75.1*	*25-150*				
Surrogate: d7-N-MeFOSE	*201*		*"*	*250*		*80.4*	*25-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50949 - EPA SW846-3510C Low Level											
Blank (BC50949-BLK1) Blank							Prepared & Analyzed: 03/13/2025				
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Chlordane, total	ND	0.200	"								
Surrogate: Decachlorobiphenyl	*0.104*		*"*	*0.200*		*51.9*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.101*		*"*	*0.200*		*50.7*	*30-150*				
LCS (BC50949-BS1) LCS							Prepared: 03/13/2025 Analyzed: 03/14/2025				
4,4'-DDD	0.0698	0.00400	ug/L	0.100		69.8	40-140			20	
4,4'-DDE	0.0671	0.00400	"	0.100		67.1	40-140			20	
4,4'-DDT	0.0788	0.00400	"	0.100		78.8	40-140			20	
Aldrin	0.0490	0.00400	"	0.100		49.0	40-140			20	
alpha-BHC	0.0559	0.00400	"	0.100		55.9	40-140			20	
alpha-Chlordane	0.0640	0.00400	"	0.100		64.0	40-140			20	
beta-BHC	0.0579	0.00400	"	0.100		57.9	40-140			20	
delta-BHC	0.0508	0.00400	"	0.100		50.8	40-140			20	
Dieldrin	0.0691	0.00200	"	0.100		69.1	40-140			20	
Endosulfan I	0.0719	0.00400	"	0.100		71.9	40-140			20	
Endosulfan II	0.0824	0.00400	"	0.100		82.4	40-140			20	
Endosulfan sulfate	0.0719	0.00400	"	0.100		71.9	40-140			20	
Endrin	0.0775	0.00400	"	0.100		77.5	40-140			20	
Endrin aldehyde	0.0827	0.0100	"	0.100		82.7	40-140			20	
Endrin ketone	0.0799	0.0100	"	0.100		79.9	40-140			20	
gamma-BHC (Lindane)	0.0597	0.00400	"	0.100		59.7	40-140			20	
gamma-Chlordane	0.0613	0.0100	"	0.100		61.3	40-140			20	
Heptachlor	0.0510	0.00400	"	0.100		51.0	40-140			20	
Heptachlor epoxide	0.0667	0.00400	"	0.100		66.7	40-140			20	
Methoxychlor	0.0771	0.00400	"	0.100		77.1	40-140			20	
Surrogate: Decachlorobiphenyl	*0.0880*		*"*	*0.200*		*44.0*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0975*		*"*	*0.200*		*48.8*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50947 - EPA SW846-3510C Low Level											
Blank (BC50947-BLK1) Blank							Prepared & Analyzed: 03/13/2025				
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.0530*		*"*	*0.200*		*26.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0730*		*"*	*0.200*		*36.5*	*30-120*				
LCS (BC50947-BS2) LCS							Prepared & Analyzed: 03/13/2025				
Aroclor 1016	0.431	0.0500	ug/L	1.00		43.1	40-120				
Aroclor 1260	0.478	0.0500	"	1.00		47.8	40-120				
Surrogate: Tetrachloro-m-xylene	*0.0500*		*"*	*0.200*		*25.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.0930*		*"*	*0.200*		*46.5*	*30-120*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50782 - EPA 8151A											
Blank (BC50782-BLK1) Blank							Prepared: 03/11/2025 Analyzed: 03/12/2025				
2,4,5-T	ND	5.00	ug/L								
2,4,5-TP (Silvex)	ND	5.00	"								
2,4-D	ND	5.00	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*113*		*"*	*125*		*90.4*	*30-150*				
LCS (BC50782-BS1) LCS							Prepared: 03/11/2025 Analyzed: 03/12/2025				
2,4,5-T	19.8	5.00	ug/L	20.0		98.8	10-140				
2,4,5-TP (Silvex)	17.5	5.00	"	20.0		87.5	10-139				
2,4-D	17.2	5.00	"	20.0		86.2	10-140				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*113*		*"*	*125*		*90.4*	*30-150*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50951 - EPA 3015A											
Blank (BC50951-BLK1) Blank								Prepared & Analyzed: 03/13/2025			
Aluminum - Dissolved	ND	0.0556	mg/L								
Barium - Dissolved	ND	0.0278	"								
Calcium - Dissolved	ND	0.0556	"								
Chromium - Dissolved	ND	0.00556	"								
Cobalt - Dissolved	ND	0.00444	"								
Copper - Dissolved	ND	0.0222	"								
Iron - Dissolved	ND	0.278	"								
Lead - Dissolved	ND	0.00556	"								
Magnesium - Dissolved	ND	0.0556	"								
Manganese - Dissolved	ND	0.00556	"								
Nickel - Dissolved	ND	0.0111	"								
Potassium - Dissolved	ND	0.0556	"								
Silver - Dissolved	ND	0.00556	"								
Sodium - Dissolved	ND	0.556	"								
Vanadium - Dissolved	ND	0.0111	"								
Zinc - Dissolved	ND	0.0278	"								
LCS (BC50951-BS1) LCS								Prepared & Analyzed: 03/13/2025			
Aluminum - Dissolved	1.82		ug/mL	2.00		91.1	80-120				
Barium - Dissolved	1.98		"	2.00		99.0	80-120				
Calcium - Dissolved	1.23		"	1.00		123	80-120	High Bias			
Chromium - Dissolved	0.195		"	0.200		97.5	80-120				
Cobalt - Dissolved	0.499		"	0.500		99.8	80-120				
Copper - Dissolved	0.253		"	0.250		101	80-120				
Iron - Dissolved	0.955		"	1.00		95.5	80-120				
Lead - Dissolved	0.496		"	0.500		99.1	80-120				
Magnesium - Dissolved	0.987		"	1.00		98.7	80-120				
Manganese - Dissolved	0.491		"	0.500		98.3	80-120				
Nickel - Dissolved	0.501		"	0.500		100	80-120				
Potassium - Dissolved	0.981		"	1.00		98.1	80-120				
Silver - Dissolved	0.0479		"	0.0500		95.8	80-120				
Sodium - Dissolved	1.09		"	1.00		109	80-120				
Vanadium - Dissolved	0.475		"	0.500		95.0	80-120				
Zinc - Dissolved	0.486		"	0.500		97.2	80-120				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50951 - EPA 3015A											
Duplicate (BC50951-DUP1) Duplicate	*Source sample: 25C0571-03 (GWDUP01_031025)							Prepared & Analyzed: 03/13/2025			
Aluminum - Dissolved	ND	0.0556	mg/L		ND					20	
Barium - Dissolved	0.431	0.0278	"		0.430				0.103	20	
Calcium - Dissolved	68.8	0.0556	"		69.1				0.353	20	
Chromium - Dissolved	ND	0.00556	"		ND					20	
Cobalt - Dissolved	0.00478	0.00444	"		0.00511				6.74	20	
Copper - Dissolved	ND	0.0222	"		ND					20	
Iron - Dissolved	0.436	0.278	"		0.385				12.4	20	
Lead - Dissolved	ND	0.00556	"		ND					20	
Magnesium - Dissolved	72.5	0.0556	"		73.3				1.09	20	
Manganese - Dissolved	0.0823	0.00556	"		0.0822				0.135	20	
Nickel - Dissolved	ND	0.0111	"		ND					20	
Potassium - Dissolved	86.2	0.0556	"		87.2				1.18	20	
Silver - Dissolved	ND	0.00556	"		ND					20	
Sodium - Dissolved	322	0.556	"		324				0.792	20	
Vanadium - Dissolved	ND	0.0111	"		ND					20	
Zinc - Dissolved	0.0458	0.0278	"		ND					20	
Matrix Spike (BC50951-MS1) Matrix Spike	*Source sample: 25C0571-03 (GWDUP01_031025)							Prepared & Analyzed: 03/13/2025			
Aluminum - Dissolved	2.46	0.0556	mg/L	2.22	ND	111	75-125				
Barium - Dissolved	2.60	0.0278	"	2.22	0.430	97.5	75-125				
Calcium - Dissolved	72.0	0.0556	"	1.11	69.1	261	75-125	High Bias			
Chromium - Dissolved	0.218	0.00556	"	0.222	ND	98.2	75-125				
Cobalt - Dissolved	0.542	0.00444	"	0.556	0.00511	96.7	75-125				
Copper - Dissolved	0.301	0.0222	"	0.278	ND	108	75-125				
Iron - Dissolved	1.53	0.278	"	1.11	0.385	103	75-125				
Lead - Dissolved	0.535	0.00556	"	0.556	ND	96.2	75-125				
Magnesium - Dissolved	76.1	0.0556	"	1.11	73.3	251	75-125	High Bias			
Manganese - Dissolved	0.617	0.00556	"	0.556	0.0822	96.2	75-125				
Nickel - Dissolved	0.537	0.0111	"	0.556	ND	96.7	75-125				
Potassium - Dissolved	90.6	0.0556	"	1.11	87.2	307	75-125	High Bias			
Silver - Dissolved	0.0539	0.00556	"	0.0556	ND	97.0	75-125				
Sodium - Dissolved	329	0.556	"	1.11	324	466	75-125	High Bias			
Vanadium - Dissolved	0.549	0.0111	"	0.556	ND	98.8	75-125				
Zinc - Dissolved	0.568	0.0278	"	0.556	ND	102	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50951 - EPA 3015A											
Post Spike (BC50951-PS1) Post Spike	*Source sample: 25C0571-03 (GWDUP01_031025)							Prepared & Analyzed: 03/13/2025			
Aluminum - Dissolved	2.17		ug/mL	2.00	0.00790	108	75-125				
Barium - Dissolved	2.34		"	2.00	0.387	97.7	75-125				
Calcium - Dissolved	63.1		"	1.00	62.2	96.1	75-125				
Chromium - Dissolved	0.198		"	0.200	0.00380	96.8	75-125				
Cobalt - Dissolved	0.486		"	0.500	0.00460	96.2	75-125				
Copper - Dissolved	0.273		"	0.250	0.00180	108	75-125				
Iron - Dissolved	1.36		"	1.00	0.347	101	75-125				
Lead - Dissolved	0.466		"	0.500	0.00110	93.1	75-125				
Magnesium - Dissolved	67.0		"	1.00	66.0	104	75-125				
Manganese - Dissolved	0.555		"	0.500	0.0740	96.2	75-125				
Nickel - Dissolved	0.482		"	0.500	0.00460	95.4	75-125				
Potassium - Dissolved	79.5		"	1.00	78.5	105	75-125				
Silver - Dissolved	0.0502		"	0.0500	-0.000500	100	75-125				
Sodium - Dissolved	293		"	1.00	292	147	75-125	High Bias			
Vanadium - Dissolved	0.497		"	0.500	0.00100	99.2	75-125				
Zinc - Dissolved	0.492		"	0.500	0.0188	94.7	75-125				
Batch BC50956 - EPA 3015A											
Blank (BC50956-BLK1) Blank								Prepared & Analyzed: 03/13/2025			
Aluminum	ND	0.0556	mg/L								
Barium	ND	0.0278	"								
Calcium	ND	0.0556	"								
Chromium	ND	0.00556	"								
Cobalt	ND	0.00444	"								
Copper	ND	0.0222	"								
Iron	ND	0.278	"								
Lead	ND	0.00556	"								
Magnesium	ND	0.0556	"								
Manganese	ND	0.00556	"								
Nickel	ND	0.0111	"								
Potassium	ND	0.0556	"								
Silver	ND	0.00556	"								
Sodium	ND	0.556	"								
Vanadium	ND	0.0111	"								
Zinc	ND	0.0278	"								

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50956 - EPA 3015A											
LCS (BC50956-BS1) LCS							Prepared & Analyzed: 03/13/2025				
Aluminum	1.91		ug/mL	2.00		95.3	80-120				
Barium	2.11		"	2.00		105	80-120				
Calcium	1.90		"	1.00		190	80-120	High Bias			
Chromium	0.210		"	0.200		105	80-120				
Cobalt	0.529		"	0.500		106	80-120				
Copper	0.265		"	0.250		106	80-120				
Iron	1.05		"	1.00		105	80-120				
Lead	0.522		"	0.500		104	80-120				
Magnesium	1.00		"	1.00		100	80-120				
Manganese	0.523		"	0.500		105	80-120				
Nickel	0.533		"	0.500		107	80-120				
Potassium	0.949		"	1.00		94.9	80-120				
Silver	0.0484		"	0.0500		96.8	80-120				
Sodium	1.19		"	1.00		119	80-120				
Vanadium	0.510		"	0.500		102	80-120				
Zinc	0.555		"	0.500		111	80-120				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50946 - EPA 3015A											
Blank (BC50946-BLK1) Blank								Prepared & Analyzed: 03/13/2025			
Antimony - Dissolved	ND	1.11	ug/L								
Arsenic - Dissolved	ND	1.11	"								
Beryllium - Dissolved	ND	0.333	"								
Cadmium - Dissolved	ND	0.556	"								
Selenium - Dissolved	ND	1.11	"								
Thallium - Dissolved	ND	1.11	"								
LCS (BC50946-BS1) LCS								Prepared & Analyzed: 03/13/2025			
Antimony - Dissolved	41.8		ug/L	50.0		83.5	80-120				
Arsenic - Dissolved	46.5		"	50.0		93.1	80-120				
Beryllium - Dissolved	48.8		"	50.0		97.5	80-120				
Cadmium - Dissolved	40.5		"	50.0		81.0	80-120				
Selenium - Dissolved	48.4		"	50.0		96.8	80-120				
Thallium - Dissolved	45.5		"	50.0		90.9	80-120				
Duplicate (BC50946-DUP1) Duplicate *Source sample: 25C0571-03 (GWDUP01_031025)								Prepared & Analyzed: 03/13/2025			
Antimony - Dissolved	ND	1.11	ug/L		ND					20	
Arsenic - Dissolved	2.76	1.11	"		2.10				27.1	20	Non-dir.
Beryllium - Dissolved	ND	0.333	"		ND					20	
Cadmium - Dissolved	ND	0.556	"		ND					20	
Selenium - Dissolved	6.25	1.11	"		2.26				93.8	20	Non-dir.
Thallium - Dissolved	ND	1.11	"		ND					20	
Matrix Spike (BC50946-MS1) Matrix Spike *Source sample: 25C0571-03 (GWDUP01_031025)								Prepared & Analyzed: 03/13/2025			
Antimony - Dissolved	71.5		ug/L	50.0	0.192	143	75-125	High Bias			
Arsenic - Dissolved	53.6		"	50.0	1.89	103	75-125				
Beryllium - Dissolved	34.8		"	50.0	-0.001	69.6	75-125	Low Bias			
Cadmium - Dissolved	68.3		"	50.0	0.077	136	75-125	High Bias			
Selenium - Dissolved	55.5		"	50.0	2.03	107	75-125				
Thallium - Dissolved	43.3		"	50.0	-0.002	86.6	75-125				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50961 - EPA 3015A											
Blank (BC50961-BLK1) Blank								Prepared & Analyzed: 03/13/2025			
Antimony	ND	1.11	ug/L								
Arsenic	ND	1.11	"								
Beryllium	ND	0.333	"								
Cadmium	ND	0.556	"								
Selenium	ND	1.11	"								
Thallium	ND	1.11	"								
LCS (BC50961-BS1) LCS								Prepared & Analyzed: 03/13/2025			
Antimony	57.3		ug/L	50.0		115	80-120				
Arsenic	48.4		"	50.0		96.9	80-120				
Beryllium	49.3		"	50.0		98.5	80-120				
Cadmium	55.6		"	50.0		111	80-120				
Selenium	48.0		"	50.0		95.9	80-120				
Thallium	45.6		"	50.0		91.3	80-120				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50940 - EPA SW846-7470A												
Blank (BC50940-BLK1)	Blank								Prepared & Analyzed: 03/13/2025			
Mercury - Dissolved		ND	0.0002	mg/L								
Blank (BC50940-BLK2)	Blank								Prepared & Analyzed: 03/13/2025			
Mercury - Dissolved		ND	0.0002	mg/L								
LCS (BC50940-BS1)	LCS								Prepared & Analyzed: 03/13/2025			
Mercury - Dissolved		0.0020	0.0002	mg/L	0.00200		102	80-120				
LCS (BC50940-BS2)	LCS								Prepared & Analyzed: 03/13/2025			
Mercury - Dissolved		0.0020	0.0002	mg/L	0.00200		101	80-120				
Batch BC50941 - EPA SW846-7470A												
Blank (BC50941-BLK1)	Blank								Prepared & Analyzed: 03/13/2025			
Mercury		ND	0.0002	mg/L								
Blank (BC50941-BLK2)	Blank								Prepared & Analyzed: 03/13/2025			
Mercury		ND	0.0002	mg/L								
LCS (BC50941-BS1)	LCS								Prepared & Analyzed: 03/13/2025			
Mercury		0.0020551	0.0002	mg/L	0.00200		103	80-120				
LCS (BC50941-BS2)	LCS								Prepared & Analyzed: 03/13/2025			
Mercury		0.0019714	0.0002	mg/L	0.00200		98.6	80-120				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50734 - Analysis Preparation												
Blank (BC50734-BLK1)	Blank								Prepared & Analyzed: 03/10/2025			
Chromium, Hexavalent		ND	0.0100	mg/L								
LCS (BC50734-BS1)	LCS								Prepared & Analyzed: 03/10/2025			
Chromium, Hexavalent		0.441	0.0100	mg/L	0.500		88.1	85-115				
Duplicate (BC50734-DUP1)	Duplicate	*Source sample: 25C0571-03 (GWDUP01_031025)							Prepared & Analyzed: 03/10/2025			
Chromium, Hexavalent		ND	0.0100	mg/L		ND					20	
Matrix Spike (BC50734-MS1)	Matrix Spike	*Source sample: 25C0571-03 (GWDUP01_031025)							Prepared & Analyzed: 03/10/2025			
Chromium, Hexavalent		0.116	0.0100	mg/L	0.500	ND	23.2	85-115	Low Bias			
Matrix Spike Dup (BC50734-M	Matrix Spike Dup	*Source sample: 25C0571-03 (GWDUP01_031025)							Prepared & Analyzed: 03/10/2025			
Chromium, Hexavalent		0.0440	0.0100	mg/L	0.500	ND	8.80	85-115	Low Bias	89.9	200	
Batch BC50788 - Analysis Preparation												
Blank (BC50788-BLK1)	Blank								Prepared & Analyzed: 03/11/2025			
Cyanide, total		ND	0.0100	mg/L								
LCS (BC50788-BS1)	LCS								Prepared & Analyzed: 03/11/2025			
Cyanide, total		0.0966	0.0100	mg/L	0.100		96.6	80-120				
Batch BC50889 - Analysis Preparation												
Blank (BC50889-BLK1)	Blank								Prepared & Analyzed: 03/12/2025			
Cyanide, total		ND	0.0100	mg/L								

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50889 - Analysis Preparation											
LCS (BC50889-BS1) LCS							Prepared & Analyzed: 03/12/2025				
Cyanide, total	0.103	0.0100	mg/L	0.100		103	80-120				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
25C0571-01	TMW34_031025	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
25C0571-02	TMW38_031025	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
25C0571-03	GWDUP01_031025	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
25C0571-04	GWTB05_031025	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

S-GC	Two surrogates are used for this analysis. One surrogate recovered within control limits therefore the analysis is acceptable.
S-08	The recovery of this surrogate was outside of QC limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
M-CCV1	The recovery for this element in the Continuing Calibration Verification (CCV) was outside the 90-110% recovery criteria.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

25C0571

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This legal document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | 2161 Whitesville Rd Toms River, NJ 08755 | clientservices@yorklab.com | 800-306-YORK

YORK Project Number: ~~25C0579~~ 25C0571

Page 1 of 1

Report To:
Company: Langan
Address: 300 Ninth Ave SUPP NY, NY 10001
Phone.: 212-479-5400
Contact: Ceri Haley
E-mail: LHaley@langan.com

Invoice To:
Company:
Address:
Phone:
Contact:
E-mail:

YOUR Project Name / Number: Proposed Bally's Casino - Ring Road at Perry Point Park 17077001

PO Number:

Samples Collected From: NY ☒ / NJ / CT / PA / Other: (please specify)

Turn-Around Time: RUSH - Next Day / RUSH - Two Day / RUSH - Three Day / RUSH - Four Day / RUSH - Five Day / Standard (6-9 Day) ☒ / PFAS Standard 7-10 Day

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Sal Walter, Savannah Walters

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered ☒ / Lab Filtered

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other:	Part 375 VOCs	Part 375 SVOCs, Pb/Cu Test	Herb/Pest metals (incl Hg)	Tri chrom total cyanide	Dissolved metals (Mn/Fe)	PFAS	Grab or Comp. G/C
TMW34_031025	3/10/25	0917	GW	10	3		2		1					X	X	X	X	X	X	
TMW38_031025	↓	1434	↓	↓	↓		↓		↓					↓	↓	↓	↓	↓	↓	
GWDUP01_031025	↓	—	↓	↓	↓		↓		↓					↓	↓	↓	↓	↓	↓	
GWTB05_031025	↓	—	AQ		2									X						

Comments: please cc: datamanagement@langan.com areach@langan.com & swalters@langan.com

Samples iced/chilled at time of lab pickup? circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N (N) Containers Intact: Y / N COC/Labels Agree: Y / N Preservation Confirmed: Y / N
COC Complete: Y / N COC Received: Y / N Appropriate Sample Volumes: Y / N Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N Samples Submitted within Holding Times: Y / N Corrective Action Form Required: Y / N

Relinquished by / Company	Date/Time	Received by / Company	Date/Time	Relinquished by / Company	Date/Time	Received by / Company	Date/Time
1. Sal Walter (Langan)	3/10/25	1. [signature]	3-10-25 4:00pm	2. [signature]	3-10-25 4:00pm	3.	
2. A. Husain	3/10/25 4:00pm	3. A. Husain	3/10/25 20:50	3.		Samples Received in LAB by: [signature]	3/10/25 20:50
4.		4.		4.		Temperature	1.6 Degrees C

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Report Date: 03/19/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0643

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 03/19/2025
Client Project ID: 170773001
York Project (SDG) No.: 25C0643

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Lexi Haley

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 11, 2025 and listed below. The project was identified as your project: **170773001**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
25C0643-01	TMW42_031125	Ground Water	03/11/2025	03/11/2025
25C0643-02	GWTB06_031125	Water	03/11/2025	03/11/2025

General Notes for York Project (SDG) No.: 25C0643

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By **Date:** 03/19/2025

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: TMW42_031125 **York Sample ID:** 25C0643-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0643	170773001	Ground Water	March 11, 2025 9:47 am	03/11/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	**1,4-Dichlorobenzene**	**0.330**		ug/L	0.311	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **TMW42_031125** **York Sample ID:** **25C0643-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0643	170773001	Ground Water	March 11, 2025 9:47 am	03/11/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND		ug/L	1.34	2.00	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	**Chlorobenzene**	**0.490**		ug/L	0.284	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.451	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: **TMW42_031125** **York Sample ID:** **25C0643-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0643	170773001	Ground Water	March 11, 2025 9:47 am	03/11/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	**tert-Butylbenzene**	**0.420**		ug/L	0.367	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **TMW42_031125** **York Sample ID:** **25C0643-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0643	170773001	Ground Water	March 11, 2025 9:47 am	03/11/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/12/2025 17:10	03/12/2025 22:17	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*99.4 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.6 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*108 %*	*79-122*

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:** **EXT-EM**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW42_031125 **York Sample ID:** 25C0643-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0643	170773001	Ground Water	March 11, 2025 9:47 am	03/11/2025

SVOA, 8270 LOW MASTER

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-48-7	2-Methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-74-4	2-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-75-5	2-Nitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
99-09-2	3-Nitroaniline	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
106-47-8	4-Chloroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-01-6	4-Nitroaniline	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
100-02-7	4-Nitrophenol	ND	QL-02	ug/L	5.56	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-86-2	Acetophenone	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
62-53-3	Aniline	ND	QL-02	ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND	CAL-E	ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND	CCVE	ug/L	5.56	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
65-85-0	Benzoic acid	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW42_031125 **York Sample ID:** 25C0643-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0643	170773001	Ground Water	March 11, 2025 9:47 am	03/11/2025

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:** EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.11	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
132-64-9	Dibenzofuran	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	Diphenylamine	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	NELAC-NY10854,PADEP-68-04440		
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.56	11.1	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND	QL-02, CCVE	ug/L	0.833	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
110-86-1	Pyridine	ND	QL-02	ug/L	2.78	5.56	1	EPA 8270D	03/15/2025 15:45	03/15/2025 19:04	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*28.6 %*	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*16.6 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*72.9 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*51.4 %*	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*50.7 %*	*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*65.1 %*	*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:** EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **TMW42_031125** **York Sample ID:** **25C0643-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0643	170773001	Ground Water	March 11, 2025 9:47 am	03/11/2025

83-32-9	**Acenaphthene**	**0.244**		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-12-7	**Anthracene**	**0.111**		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1912-24-9	Atrazine	ND		ug/L	0.556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
56-55-3	**Benzo(a)anthracene**	**0.0667**		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**2.44**		ug/L	0.556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	**Chrysene**	**0.0667**		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	**Fluoranthene**	**0.167**		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	**Fluorene**	**0.167**		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
118-74-1	Hexachlorobenzene	ND		ug/L	0.0222	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND		ug/L	0.556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.0889**		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND	CCVE, ICVE	ug/L	0.278	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
62-75-9	N-Nitrosodimethylamine	ND	QL-02, CCVE	ug/L	0.556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-86-5	Pentachlorophenol	ND	CCVE	ug/L	0.278	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
85-01-8	**Phenanthrene**	**0.300**		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.100**		ug/L	0.0556	1	EPA 8270D SIM	03/15/2025 15:45	03/15/2025 17:36	AAK
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **TMW42_031125** **York Sample ID:** **25C0643-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0643	170773001	Ground Water	March 11, 2025 9:47 am	03/11/2025

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270E SIM Certifications: NJDEP-CT005,NELAC-NY10854	03/13/2025 20:15	03/14/2025 21:31	SS

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*76.0 %*	*36.6-118*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**3.67**		ng/L	0.470	1.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**11.8**		ng/L	0.350	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**7.42**		ng/L	0.709	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**29.9**		ng/L	0.679	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
335-67-1	**Perfluorooctanoic acid (PFOA)**	**44.3**		ng/L	0.420	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**21.3**		ng/L	0.819	1.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
375-95-1	**Perfluorononanoic acid (PFNA)**	**5.09**		ng/L	0.520	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.749	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.13	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.879	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.739	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.689	2.00	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
2355-31-9	N-MeFOSAA	ND		ng/L	0.789	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
2991-50-6	N-EtFOSAA	ND		ng/L	1.03	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**11.7**		ng/L	0.230	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.879	2.00	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM

Sample Information

Client Sample ID: **TMW42_031125** **York Sample ID:** **25C0643-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0643	170773001	Ground Water	March 11, 2025 9:47 am	03/11/2025

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.909	1.91	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.32	1.93	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	7.49	7.59	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.05	7.67	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**10.7**	PF-LCS-H	ng/L	0.330	7.99	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.500	3.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/17/2025 11:47	03/19/2025 02:23	AM
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.14	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/17/2025 11:47	03/19/2025 02:23	AM
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.250	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/17/2025 11:47	03/19/2025 02:23	AM
863090-89-5	**Perfluoro-5-oxahexanoic acid (PFMBA)**	**0.410**	J	ng/L	0.370	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	03/17/2025 11:47	03/19/2025 02:23	AM
2706-91-4	**Perfluoro-1-pentanesulfonate (PFPeS)**	**1.62**	J	ng/L	0.759	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.79	7.49	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.23	7.99	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.38	7.55	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
756426-58-1	9CL-PF3ONS	ND		ng/L	0.699	7.47	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
919005-14-4	ADONA	ND		ng/L	0.530	7.55	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.929	1.94	1	EPA 1633 Draft 3 Certifications:	03/17/2025 11:47	03/19/2025 02:23	AM
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.859	1.92	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	03/17/2025 11:47	03/19/2025 02:23	AM
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.03	5.00	1	EPA 1633 Draft 3 Certifications:	03/17/2025 11:47	03/19/2025 02:23	AM
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.32	25.0	1	EPA 1633 Draft 3 Certifications:	03/17/2025 11:47	03/19/2025 02:23	AM
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.46	25.0	1	EPA 1633 Draft 3 Certifications:	03/17/2025 11:47	03/19/2025 02:23	AM
24448-09-7	* N-MeFOSE	ND		ng/L	3.99	20.0	1	EPA 1633 Draft 3 Certifications:	03/17/2025 11:47	03/19/2025 02:23	AM
31506-32-8	* N-MeFOSA	ND		ng/L	1.58	2.00	1	EPA 1633 Draft 3 Certifications:	03/17/2025 11:47	03/19/2025 02:23	AM

Sample Information

Client Sample ID: TMW42_031125 **York Sample ID:** 25C0643-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0643	170773001	Ground Water	March 11, 2025 9:47 am	03/11/2025

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1691-99-2	* N-EtFOSE	ND		ng/L	3.99	20.0	1	EPA 1633 Draft 3 Certifications:	03/17/2025 11:47	03/19/2025 02:23	AM
4151-50-2	* N-EtFOSA	ND		ng/L	1.80	2.00	1	EPA 1633 Draft 3 Certifications:	03/17/2025 11:47	03/19/2025 02:23	AM

	Surrogate Recoveries	Result		Acceptance Range
M3PFBS	*Surrogate: M3PFBS*	*92.1 %*		*25-150*
13C5PFHXA	*Surrogate: M5PFHxA*	*91.9 %*		*25-150*
13C4PFHPA	*Surrogate: M4PFHpA*	*113 %*		*25-150*
13C3PFHXS	*Surrogate: M3PFHxS*	*97.1 %*		*25-150*
13C8PFOA	*Surrogate: Perfluoro-n-[13C8]octanoic aci*	*86.7 %*		*25-150*
13C6PFDA	*Surrogate: M6PFDA*	*66.1 %*		*25-150*
13C7PFUNA	*Surrogate: M7PFUdA*	*60.2 %*		*25-150*
960315-52-0	*Surrogate: Perfluoro-n-[1,2-13C2]dodecan*	*54.8 %*		*25-150*
13C2PFTEDA	*Surrogate: M2PFTeDA*	*36.2 %*		*10-150*
13C4PFBA	*Surrogate: Perfluoro-n-[13C4]butanoic aci*	*25.4 %*		*25-150*
13C8PFOS	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*81.0 %*		*25-150*
13C5PFPEA	*Surrogate: Perfluoro-n-[13C5]pentanoic ac*	*88.7 %*		*25-150*
13C8FOSA	*Surrogate: Perfluoro-1-[13C8]octanesulfor*	*83.5 %*		*10-150*
D3-NMEFOSAA	*Surrogate: d3-N-MeFOSAA*	*80.2 %*		*25-150*
D5-NETFOSAA	*Surrogate: d5-N-EtFOSAA*	*83.4 %*		*25-150*
M2-6:2FTS	*Surrogate: M2-6:2 FTS*	*321 %*	PFSu-H	*25-200*
M2-8:2FTS	*Surrogate: M2-8:2 FTS*	*153 %*		*25-200*
13C9PFNA	*Surrogate: M9PFNA*	*75.9 %*		*25-150*
M2-4:2FTS	*Surrogate: M2-4:2 FTS*	*317 %*	PFSu-H	*25-150*
936109-37-4	*Surrogate: d-N-MeFOSA*	*44.7 %*		*25-150*
936109-40-9	*Surrogate: d-N-EtFOSA*	*50.7 %*		*25-150*
M3HFPO-DA	*Surrogate: M3HFPO-DA*	*99.5 %*		*25-150*
D9-NETPFOSAI	*Surrogate: d9-N-EtFOSE*	*30.7 %*		*25-150*
D7-NMEPFOSA	*Surrogate: d7-N-MeFOSE*	*36.5 %*		*25-150*

Sample Information

Client Sample ID: TMW42_031125 **York Sample ID:** 25C0643-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0643	170773001	Ground Water	March 11, 2025 9:47 am	03/11/2025

PEST, 8081 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW42_031125 **York Sample ID:** 25C0643-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0643	170773001	Ground Water	March 11, 2025 9:47 am	03/11/2025

PEST, 8081 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	* Chlordane, total	ND		ug/L	0.200	1	EPA 8081B	03/14/2025 14:01	03/16/2025 17:16	SCB
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*67.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.6 %*	*30-150*

PCB, 8082 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	03/14/2025 13:57	03/17/2025 00:22	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	03/14/2025 13:57	03/17/2025 00:22	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	03/14/2025 13:57	03/17/2025 00:22	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	03/14/2025 13:57	03/17/2025 00:22	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	03/14/2025 13:57	03/17/2025 00:22	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	03/14/2025 13:57	03/17/2025 00:22	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	03/14/2025 13:57	03/17/2025 00:22	NF
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	03/14/2025 13:57	03/17/2025 00:22	NF
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*60.5 %*	*30-120*

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	1	EPA 8151A	03/17/2025 08:40	03/17/2025 15:36	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A	03/17/2025 08:40	03/17/2025 15:36	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A	03/17/2025 08:40	03/17/2025 15:36	GXB
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: TMW42_031125 **York Sample ID:** 25C0643-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0643	170773001	Ground Water	March 11, 2025 9:47 am	03/11/2025

HERB, 8151 MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (.*	*81.0 %*			*30-150*					

Metals, Target Analyte, ICP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7.77**		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:16	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.470**		mg/L	0.0278	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:16	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**161**	M-BS	mg/L	0.0556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:16	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	**Chromium**	**0.0299**		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:16	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	**Cobalt**	**0.00900**		mg/L	0.00444	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:16	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:16	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**37.5**		mg/L	0.278	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:16	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**0.108**		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:16	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**26.4**		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:16	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**1.92**		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:16	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	**Nickel**	**0.0192**		mg/L	0.0111	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:16	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**19.4**		mg/L	0.0556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:16	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:16	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**36.7**		mg/L	0.556	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:16	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**0.0343**		mg/L	0.0111	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:16	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	**Zinc**	**0.295**		mg/L	0.0278	1	EPA 6010D	03/13/2025 08:58	03/13/2025 14:16	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICP Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **TMW42_031125** **York Sample ID:** **25C0643-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0643	170773001	Ground Water	March 11, 2025 9:47 am	03/11/2025

Metals, Target Analyte, ICP Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.0744**	B	mg/L	0.0556	1	EPA 6010D	03/13/2025 14:56	03/14/2025 13:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.147**		mg/L	0.0278	1	EPA 6010D	03/13/2025 14:56	03/14/2025 13:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**139**	M-BS	mg/L	0.0556	1	EPA 6010D	03/13/2025 14:56	03/14/2025 13:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 14:56	03/14/2025 13:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	03/13/2025 14:56	03/14/2025 13:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	03/13/2025 14:56	03/14/2025 13:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	03/13/2025 14:56	03/14/2025 13:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 14:56	03/14/2025 13:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**23.9**		mg/L	0.0556	1	EPA 6010D	03/13/2025 14:56	03/14/2025 13:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-96-5	**Manganese**	**1.13**		mg/L	0.00556	1	EPA 6010D	03/13/2025 14:56	03/14/2025 13:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	03/13/2025 14:56	03/14/2025 13:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**19.0**		mg/L	0.0556	1	EPA 6010D	03/13/2025 14:56	03/14/2025 13:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	03/13/2025 14:56	03/14/2025 13:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**37.1**		mg/L	0.556	1	EPA 6010D	03/13/2025 14:56	03/14/2025 13:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	03/13/2025 14:56	03/14/2025 13:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	03/13/2025 14:56	03/14/2025 13:29	AGNR
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:11	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**4.79**		ug/L	1.11	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:11	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	**Beryllium**	**0.402**		ug/L	0.333	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:11	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: TMW42_031125 **York Sample ID:** 25C0643-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0643	170773001	Ground Water	March 11, 2025 9:47 am	03/11/2025

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:11	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:11	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 09:11	03/13/2025 15:11	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 15:16	03/14/2025 13:31	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 15:16	03/14/2025 13:31	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	03/13/2025 15:16	03/14/2025 13:31	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	03/13/2025 15:16	03/14/2025 13:31	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 15:16	03/14/2025 13:31	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	03/13/2025 15:16	03/14/2025 13:31	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0023**		mg/L	0.0002	1	EPA 7470	03/14/2025 07:58	03/14/2025 07:58	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	03/13/2025 08:04	03/13/2025 08:04	DBT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **TMW42_031125** **York Sample ID:** **25C0643-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0643	170773001	Ground Water	March 11, 2025 9:47 am	03/11/2025

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	03/11/2025 20:24	03/11/2025 21:26	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**0.0299**		mg/L	0.0100	1	Calculation	03/17/2025 15:03	03/17/2025 15:13	SL
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.0241**		mg/L	0.0100	1	SM 4500 CN C-2016 / E-2016	03/12/2025 13:55	03/12/2025 19:39	CB
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: GWTB06_031125 **York Sample ID:** 25C0643-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0643	170773001	Water	March 11, 2025 3:00 pm	03/11/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.216	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.266	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.256	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.286	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.249	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.272	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.327	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.222	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.273	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.138	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.310	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.432	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.215	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.270	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.377	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.327	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.347	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.283	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.311	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		ug/L	35.3	80.0	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	0.421	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: GWTB06_031125 **York Sample ID:** 25C0643-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0643	170773001	Water	March 11, 2025 3:00 pm	03/11/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.320	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.365	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND		ug/L	1.34	2.00	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	ICVE	ug/L	0.447	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.422	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.354	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.245	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.163	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		ug/L	0.119	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.362	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.204	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.284	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.448	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.243	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	0.372	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.294	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.262	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.491	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.146	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.203	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.451	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: GWTB06_031125 **York Sample ID:** 25C0643-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0643	170773001	Water	March 11, 2025 3:00 pm	03/11/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.290	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.241	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.405	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.442	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.244	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.477	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	0.397	2.00	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.399	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.384	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.261	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.578	1.00	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.377	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	0.444	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	0.255	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.608	1.00	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.367	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.239	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	0.346	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.279	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.229	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.249	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: GWTB06_031125 **York Sample ID:** 25C0643-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
25C0643	170773001	Water	March 11, 2025 3:00 pm	03/11/2025

VOA, 8260 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.337	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.469	0.500	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	0.839	1.50	1	EPA 8260D	03/12/2025 17:10	03/12/2025 19:05	PMB
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*102 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.6 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*79-122*

Analytical Batch Summary

Batch ID: BC50830 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0643-01	TMW42_031125	03/11/25
BC50830-BLK1	Blank	03/11/25
BC50830-BS1	LCS	03/11/25

Batch ID: BC50889 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0643-01	TMW42_031125	03/12/25
BC50889-BLK1	Blank	03/12/25
BC50889-BS1	LCS	03/12/25

Batch ID: BC50912 **Preparation Method:** EPA 5030B **Prepared By:** PMB

YORK Sample ID	Client Sample ID	Preparation Date
25C0643-01	TMW42_031125	03/12/25
25C0643-02	GWTB06_031125	03/12/25
BC50912-BLK1	Blank	03/12/25
BC50912-BS1	LCS	03/12/25
BC50912-BSD1	LCS Dup	03/12/25

Batch ID: BC50940 **Preparation Method:** EPA SW846-7470A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
25C0643-01	TMW42_031125	03/13/25
BC50940-BLK1	Blank	03/13/25
BC50940-BLK2	Blank	03/13/25
BC50940-BS1	LCS	03/13/25
BC50940-BS2	LCS	03/13/25

Batch ID: BC50956 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0643-01	TMW42_031125	03/13/25
BC50956-BLK1	Blank	03/13/25
BC50956-BS1	LCS	03/13/25

Batch ID: BC50961 **Preparation Method:** EPA 3015A **Prepared By:** LCB

YORK Sample ID	Client Sample ID	Preparation Date
25C0643-01	TMW42_031125	03/13/25
BC50961-BLK1	Blank	03/13/25
BC50961-BS1	LCS	03/13/25

BC50961-DUP1	Duplicate	03/13/25
BC50961-MS1	Matrix Spike	03/13/25

Batch ID: BC51002 **Preparation Method:** EPA 3535A **Prepared By:** NMB2

YORK Sample ID	Client Sample ID	Preparation Date
25C0643-01	TMW42_031125	03/13/25
BC51002-BLK1	Blank	03/13/25
BC51002-BS1	LCS	03/13/25

Batch ID: BC51019 **Preparation Method:** EPA 3015A **Prepared By:** DHD

YORK Sample ID	Client Sample ID	Preparation Date
25C0643-01	TMW42_031125	03/13/25
BC51019-BLK1	Blank	03/13/25
BC51019-BS1	LCS	03/13/25

Batch ID: BC51031 **Preparation Method:** EPA 3015A **Prepared By:** DHD

YORK Sample ID	Client Sample ID	Preparation Date
25C0643-01	TMW42_031125	03/13/25
BC51031-BLK1	Blank	03/13/25
BC51031-BS1	LCS	03/13/25
BC51031-DUP1	Duplicate	03/13/25
BC51031-MS1	Matrix Spike	03/13/25

Batch ID: BC51056 **Preparation Method:** EPA SW846-7470A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
25C0643-01	TMW42_031125	03/14/25
BC51056-BLK1	Blank	03/14/25
BC51056-BLK2	Blank	03/14/25
BC51056-BS1	LCS	03/14/25
BC51056-BS2	LCS	03/14/25

Batch ID: BC51101 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** AJC

YORK Sample ID	Client Sample ID	Preparation Date
25C0643-01	TMW42_031125	03/14/25
BC51101-BLK1	Blank	03/14/25
BC51101-BS2	LCS	03/14/25
BC51101-BSD2	LCS Dup	03/14/25

Batch ID: BC51102 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** AJC

YORK Sample ID	Client Sample ID	Preparation Date
25C0643-01	TMW42_031125	03/14/25

BC51102-BLK1	Blank	03/14/25
BC51102-BS1	LCS	03/14/25
BC51102-BSD1	LCS Dup	03/14/25

Batch ID: BC51136 **Preparation Method:** EPA 3510C **Prepared By:** NMB2

YORK Sample ID	Client Sample ID	Preparation Date
25C0643-01	TMW42_031125	03/15/25
BC51136-BLK2	Blank	03/15/25
BC51136-BS2	LCS	03/15/25

Batch ID: BC51137 **Preparation Method:** EPA 3510C **Prepared By:** NMB2

YORK Sample ID	Client Sample ID	Preparation Date
25C0643-01	TMW42_031125	03/15/25
BC51137-BLK1	Blank	03/15/25
BC51137-BS1	LCS	03/15/25
BC51137-BSD1	LCS Dup	03/15/25

Batch ID: BC51190 **Preparation Method:** EPA 8151A **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
25C0643-01	TMW42_031125	03/17/25
BC51190-BLK1	Blank	03/17/25
BC51190-BS1	LCS	03/17/25

Batch ID: BC51218 **Preparation Method:** EPA 1633 Prep **Prepared By:** JBG

YORK Sample ID	Client Sample ID	Preparation Date
25C0643-01	TMW42_031125	03/17/25
BC51218-BLK1	Blank	03/17/25
BC51218-BS1	LCS	03/17/25
BC51218-BS2	LCS	03/17/25

Batch ID: BC51248 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
25C0643-01	TMW42_031125	03/17/25

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50912 - EPA 5030B											
Blank (BC50912-BLK1) Blank									Prepared & Analyzed: 03/12/2025		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50912 - EPA 5030B											
Blank (BC50912-BLK1) Blank							Prepared & Analyzed: 03/12/2025				
n-Butylbenzene	ND	0.500	ug/L								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.5*		*"*	*10.0*		*105*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.92*		*"*	*10.0*		*99.2*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*79-122*				
LCS (BC50912-BS1) LCS							Prepared & Analyzed: 03/12/2025				
1,1,1,2-Tetrachloroethane	9.67		ug/L	10.0		96.7	82-126				
1,1,1-Trichloroethane	9.73		"	10.0		97.3	78-136				
1,1,2,2-Tetrachloroethane	10.5		"	10.0		105	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.4		"	10.0		114	54-165				
1,1,2-Trichloroethane	9.51		"	10.0		95.1	82-123				
1,1-Dichloroethane	9.28		"	10.0		92.8	82-129				
1,1-Dichloroethylene	10.4		"	10.0		104	68-138				
1,2,3-Trichlorobenzene	8.32		"	10.0		83.2	76-136				
1,2,3-Trichloropropane	10.2		"	10.0		102	77-128				
1,2,4-Trichlorobenzene	9.04		"	10.0		90.4	76-137				
1,2,4-Trimethylbenzene	10.3		"	10.0		103	82-132				
1,2-Dibromo-3-chloropropane	9.65		"	10.0		96.5	45-147				
1,2-Dibromoethane	9.65		"	10.0		96.5	83-124				
1,2-Dichlorobenzene	9.46		"	10.0		94.6	79-123				
1,2-Dichloroethane	10.0		"	10.0		100	73-132				
1,2-Dichloropropane	9.12		"	10.0		91.2	78-126				
1,3,5-Trimethylbenzene	10.2		"	10.0		102	80-131				
1,3-Dichlorobenzene	9.63		"	10.0		96.3	86-122				
1,4-Dichlorobenzene	9.62		"	10.0		96.2	85-124				
1,4-Dioxane	162		"	210		77.1	10-349				
2-Butanone	9.22		"	10.0		92.2	49-152				
2-Hexanone	9.24		"	10.0		92.4	51-146				
4-Methyl-2-pentanone	9.59		"	10.0		95.9	57-145				
Acetone	7.18		"	10.0		71.8	14-150				
Acrolein	10.5		"	10.0		105	10-153				
Acrylonitrile	10.3		"	10.0		103	51-150				
Benzene	9.79		"	10.0		97.9	85-126				
Bromochloromethane	9.64		"	10.0		96.4	77-128				
Bromodichloromethane	9.75		"	10.0		97.5	79-128				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50912 - EPA 5030B											
LCS (BC50912-BS1) LCS							Prepared & Analyzed: 03/12/2025				
Bromoform	10.1		ug/L	10.0		101	78-133				
Bromomethane	13.3		"	10.0		133	43-168				
Carbon disulfide	10.8		"	10.0		108	68-146				
Carbon tetrachloride	10.2		"	10.0		102	77-141				
Chlorobenzene	9.46		"	10.0		94.6	88-120				
Chloroethane	9.96		"	10.0		99.6	65-136				
Chloroform	9.69		"	10.0		96.9	82-128				
Chloromethane	10.1		"	10.0		101	43-155				
cis-1,2-Dichloroethylene	9.54		"	10.0		95.4	83-129				
cis-1,3-Dichloropropylene	9.43		"	10.0		94.3	80-131				
Cyclohexane	9.90		"	10.0		99.0	63-149				
Dibromochloromethane	9.93		"	10.0		99.3	80-130				
Dibromomethane	9.55		"	10.0		95.5	72-134				
Dichlorodifluoromethane	14.3		"	10.0		143	44-144				
Ethyl Benzene	9.57		"	10.0		95.7	80-131				
Hexachlorobutadiene	9.12		"	10.0		91.2	67-146				
Isopropylbenzene	10.1		"	10.0		101	76-140				
Methyl acetate	13.0		"	10.0		130	51-139				
Methyl tert-butyl ether (MTBE)	9.66		"	10.0		96.6	76-135				
Methylcyclohexane	9.60		"	10.0		96.0	72-143				
Methylene chloride	9.18		"	10.0		91.8	55-137				
n-Butylbenzene	10.4		"	10.0		104	79-132				
n-Propylbenzene	9.93		"	10.0		99.3	78-133				
o-Xylene	9.41		"	10.0		94.1	78-130				
p- & m- Xylenes	18.8		"	20.0		93.9	77-133				
p-Isopropyltoluene	10.5		"	10.0		105	81-136				
sec-Butylbenzene	10.0		"	10.0		100	79-137				
Styrene	10.0		"	10.0		100	67-132				
tert-Butyl alcohol (TBA)	58.0		"	50.0		116	25-162				
tert-Butylbenzene	9.94		"	10.0		99.4	77-138				
Tetrachloroethylene	5.88		"	10.0		58.8	82-131	Low Bias			
Toluene	9.38		"	10.0		93.8	80-127				
trans-1,2-Dichloroethylene	9.61		"	10.0		96.1	80-132				
trans-1,3-Dichloropropylene	9.88		"	10.0		98.8	78-131				
Trichloroethylene	9.31		"	10.0		93.1	82-128				
Trichlorofluoromethane	10.8		"	10.0		108	67-139				
Vinyl Chloride	10.2		"	10.0		102	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.85*		*"*	*10.0*		*98.5*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50912 - EPA 5030B											
LCS Dup (BC50912-BSD1) LCS Dup							Prepared & Analyzed: 03/12/2025				
1,1,1,2-Tetrachloroethane	9.70		ug/L	10.0		97.0	82-126		0.310	30	
1,1,1-Trichloroethane	9.60		"	10.0		96.0	78-136		1.35	30	
1,1,2,2-Tetrachloroethane	10.2		"	10.0		102	76-129		2.42	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1		"	10.0		111	54-165		2.84	30	
1,1,2-Trichloroethane	9.59		"	10.0		95.9	82-123		0.838	30	
1,1-Dichloroethane	9.16		"	10.0		91.6	82-129		1.30	30	
1,1-Dichloroethylene	10.1		"	10.0		101	68-138		2.34	30	
1,2,3-Trichlorobenzene	9.23		"	10.0		92.3	76-136		10.4	30	
1,2,3-Trichloropropane	9.98		"	10.0		99.8	77-128		2.67	30	
1,2,4-Trichlorobenzene	9.38		"	10.0		93.8	76-137		3.69	30	
1,2,4-Trimethylbenzene	9.91		"	10.0		99.1	82-132		3.86	30	
1,2-Dibromo-3-chloropropane	9.39		"	10.0		93.9	45-147		2.73	30	
1,2-Dibromoethane	9.73		"	10.0		97.3	83-124		0.826	30	
1,2-Dichlorobenzene	9.35		"	10.0		93.5	79-123		1.17	30	
1,2-Dichloroethane	10.0		"	10.0		100	73-132		0.00	30	
1,2-Dichloropropane	8.96		"	10.0		89.6	78-126		1.77	30	
1,3,5-Trimethylbenzene	9.69		"	10.0		96.9	80-131		4.93	30	
1,3-Dichlorobenzene	9.43		"	10.0		94.3	86-122		2.10	30	
1,4-Dichlorobenzene	9.42		"	10.0		94.2	85-124		2.10	30	
1,4-Dioxane	170		"	210		81.0	10-349		4.96	30	
2-Butanone	9.20		"	10.0		92.0	49-152		0.217	30	
2-Hexanone	9.33		"	10.0		93.3	51-146		0.969	30	
4-Methyl-2-pentanone	9.71		"	10.0		97.1	57-145		1.24	30	
Acetone	7.17		"	10.0		71.7	14-150		0.139	30	
Acrolein	10.8		"	10.0		108	10-153		3.28	30	
Acrylonitrile	10.6		"	10.0		106	51-150		2.49	30	
Benzene	9.63		"	10.0		96.3	85-126		1.65	30	
Bromochloromethane	9.64		"	10.0		96.4	77-128		0.00	30	
Bromodichloromethane	9.72		"	10.0		97.2	79-128		0.308	30	
Bromoform	10.0		"	10.0		100	78-133		0.595	30	
Bromomethane	12.8		"	10.0		128	43-168		3.74	30	
Carbon disulfide	10.7		"	10.0		107	68-146		1.12	30	
Carbon tetrachloride	10.0		"	10.0		100	77-141		2.18	30	
Chlorobenzene	9.43		"	10.0		94.3	88-120		0.318	30	
Chloroethane	9.77		"	10.0		97.7	65-136		1.93	30	
Chloroform	9.66		"	10.0		96.6	82-128		0.310	30	
Chloromethane	9.48		"	10.0		94.8	43-155		6.63	30	
cis-1,2-Dichloroethylene	9.47		"	10.0		94.7	83-129		0.736	30	
cis-1,3-Dichloropropylene	9.37		"	10.0		93.7	80-131		0.638	30	
Cyclohexane	9.53		"	10.0		95.3	63-149		3.81	30	
Dibromochloromethane	10.0		"	10.0		100	80-130		0.802	30	
Dibromomethane	9.53		"	10.0		95.3	72-134		0.210	30	
Dichlorodifluoromethane	13.4		"	10.0		134	44-144		6.56	30	
Ethyl Benzene	9.44		"	10.0		94.4	80-131		1.37	30	
Hexachlorobutadiene	8.72		"	10.0		87.2	67-146		4.48	30	
Isopropylbenzene	9.57		"	10.0		95.7	76-140		5.59	30	
Methyl acetate	12.7		"	10.0		127	51-139		2.65	30	
Methyl tert-butyl ether (MTBE)	9.66		"	10.0		96.6	76-135		0.00	30	
Methylcyclohexane	9.30		"	10.0		93.0	72-143		3.17	30	
Methylene chloride	9.12		"	10.0		91.2	55-137		0.656	30	
n-Butylbenzene	9.85		"	10.0		98.5	79-132		5.72	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50912 - EPA 5030B											
LCS Dup (BC50912-BSD1) LCS Dup							Prepared & Analyzed: 03/12/2025				
n-Propylbenzene	9.46		ug/L	10.0		94.6	78-133		4.85	30	
o-Xylene	9.32		"	10.0		93.2	78-130		0.961	30	
p- & m- Xylenes	18.5		"	20.0		92.4	77-133		1.56	30	
p-Isopropyltoluene	10.0		"	10.0		100	81-136		4.77	30	
sec-Butylbenzene	9.62		"	10.0		96.2	79-137		4.27	30	
Styrene	9.93		"	10.0		99.3	67-132		0.702	30	
tert-Butyl alcohol (TBA)	58.7		"	50.0		117	25-162		1.15	30	
tert-Butylbenzene	9.52		"	10.0		95.2	77-138		4.32	30	
Tetrachloroethylene	5.81		"	10.0		58.1	82-131	Low Bias	1.20	30	
Toluene	9.21		"	10.0		92.1	80-127		1.83	30	
trans-1,2-Dichloroethylene	9.52		"	10.0		95.2	80-132		0.941	30	
trans-1,3-Dichloropropylene	9.84		"	10.0		98.4	78-131		0.406	30	
Trichloroethylene	9.09		"	10.0		90.9	82-128		2.39	30	
Trichlorofluoromethane	10.6		"	10.0		106	67-139		1.87	30	
Vinyl Chloride	9.71		"	10.0		97.1	58-145		4.53	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.5*		*"*	*10.0*		*105*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.74*		*"*	*10.0*		*97.4*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*79-122*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51136 - EPA 3510C											
Blank (BC51136-BLK2) Blank								Prepared & Analyzed: 03/15/2025			
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								
LCS (BC51136-BS2) LCS								Prepared & Analyzed: 03/15/2025			
Acenaphthene	1.10	0.0500	ug/L	1.25		88.0	25-116				
Acenaphthylene	1.24	0.0500	"	1.25		99.2	26-116				
Anthracene	1.19	0.0500	"	1.25		95.2	25-123				
Benzo(a)anthracene	1.25	0.0500	"	1.25		100	33-125				
Benzo(a)pyrene	1.13	0.0500	"	1.25		90.4	32-132				
Benzo(b)fluoranthene	1.10	0.0500	"	1.25		88.0	22-137				
Benzo(g,h,i)perylene	1.93	0.0500	"	1.25		154	10-138	High Bias			
Benzo(k)fluoranthene	1.15	0.0500	"	1.25		92.0	20-137				
Bis(2-ethylhexyl)phthalate	1.63	0.500	"	1.25		130	10-189				
Chrysene	1.30	0.0500	"	1.25		104	32-124				
Dibenzo(a,h)anthracene	1.88	0.0500	"	1.25		150	16-133	High Bias			
Fluoranthene	1.09	0.0500	"	1.25		87.2	32-121				
Fluorene	1.16	0.0500	"	1.25		92.8	28-118				
Hexachlorobenzene	1.39	0.0200	"	1.25		111	23-124				
Hexachlorobutadiene	1.03	0.500	"	1.25		82.4	15-123				
Hexachloroethane	5.53	0.500	"	1.25		442	18-115	High Bias			
Indeno(1,2,3-cd)pyrene	1.82	0.0500	"	1.25		146	15-135	High Bias			
Naphthalene	1.06	0.0500	"	1.25		84.8	18-120				
Nitrobenzene	0.590	0.250	"	1.25		47.2	21-121				
N-Nitrosodimethylamine	ND	0.500	"	1.25			10-124	Low Bias			
Pentachlorophenol	4.36	0.250	"	1.25		349	10-156	High Bias			
Phenanthrene	1.17	0.0500	"	1.25		93.6	24-127				
Pyrene	1.39	0.0500	"	1.25		111	31-132				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51137 - EPA 3510C											
Blank (BC51137-BLK1) Blank									Prepared & Analyzed: 03/15/2025		
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Diphenylamine	ND	5.00	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Isophorone	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Phenol	ND	5.00	"								
Pyridine	ND	5.00	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51137 - EPA 3510C											
Blank (BC51137-BLK1) Blank							Prepared & Analyzed: 03/15/2025				
Surrogate: SURR: 2-Fluorophenol	*16.5*		*ug/L*	*50.0*		*33.0*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*9.31*		*"*	*50.0*		*18.6*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*17.3*		*"*	*25.0*		*69.2*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*15.8*		*"*	*25.0*		*63.3*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*28.2*		*"*	*50.0*		*56.5*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*21.5*		*"*	*25.0*		*86.2*	*30.7-106*				
LCS (BC51137-BS1) LCS							Prepared & Analyzed: 03/15/2025				
1,1-Biphenyl	21.4	5.00	ug/L	25.0		85.8	33-95				
1,2,4,5-Tetrachlorobenzene	17.9	5.00	"	25.0		71.5	26-120				
1,2-Diphenylhydrazine (as Azobenzene)	26.5	5.00	"	25.0		106	16-141				
2,3,4,6-Tetrachlorophenol	25.7	5.00	"	25.0		103	30-130				
2,4,5-Trichlorophenol	20.0	5.00	"	25.0		80.1	32-114				
2,4,6-Trichlorophenol	21.2	5.00	"	25.0		84.8	35-118				
2,4-Dichlorophenol	24.8	5.00	"	25.0		99.1	25-116				
2,4-Dimethylphenol	25.8	5.00	"	25.0		103	15-116				
2,4-Dinitrophenol	28.2	5.00	"	25.0		113	10-170				
2,4-Dinitrotoluene	21.6	5.00	"	25.0		86.6	41-128				
2,6-Dinitrotoluene	22.5	5.00	"	25.0		89.9	45-116				
2-Chloronaphthalene	21.4	5.00	"	25.0		85.6	33-112				
2-Chlorophenol	18.7	5.00	"	25.0		75.0	15-120				
2-Methylnaphthalene	24.5	5.00	"	25.0		98.0	24-118				
2-Methylphenol	16.5	5.00	"	25.0		66.1	10-110				
2-Nitroaniline	20.7	5.00	"	25.0		83.0	34-129				
2-Nitrophenol	22.8	5.00	"	25.0		91.3	28-118				
3- & 4-Methylphenols	13.3	5.00	"	25.0		53.1	10-107				
3,3-Dichlorobenzidine	15.8	5.00	"	25.0		63.1	15-187				
3-Nitroaniline	15.4	5.00	"	25.0		61.4	24-134				
4,6-Dinitro-2-methylphenol	34.3	5.00	"	25.0		137	10-153				
4-Bromophenyl phenyl ether	21.6	5.00	"	25.0		86.2	34-120				
4-Chloro-3-methylphenol	26.8	5.00	"	25.0		107	20-120				
4-Chloroaniline	10.1	5.00	"	25.0		40.4	10-147				
4-Chlorophenyl phenyl ether	22.6	5.00	"	25.0		90.5	27-121				
4-Nitroaniline	16.2	5.00	"	25.0		65.0	13-134				
4-Nitrophenol	ND	5.00	"	25.0			10-131	Low Bias			
Acetophenone	22.7	5.00	"	25.0		90.7	25-110				
Aniline	ND	5.00	"	25.0			10-117	Low Bias			
Benzaldehyde	19.5	5.00	"	25.0		78.1	29-117				
Benzoic acid	11.2	5.00	"	25.0		44.6	30-130				
Benzyl alcohol	15.8	5.00	"	25.0		63.0	10-117				
Benzyl butyl phthalate	26.8	5.00	"	25.0		107	29-133				
Bis(2-chloroethoxy)methane	27.8	5.00	"	25.0		111	10-154				
Bis(2-chloroethyl)ether	20.0	5.00	"	25.0		79.9	17-125				
Bis(2-chloroisopropyl)ether	15.3	5.00	"	25.0		61.4	10-139				
Caprolactam	4.20	5.00	"	25.0		16.8	10-137				
Carbazole	26.6	5.00	"	25.0		107	42-126				
Dibenzofuran	23.6	5.00	"	25.0		94.3	36-113				
Diethyl phthalate	26.0	5.00	"	25.0		104	38-115				
Dimethyl phthalate	25.9	5.00	"	25.0		104	38-129				
Di-n-butyl phthalate	29.1	5.00	"	25.0		116	31-120				
Di-n-octyl phthalate	28.9	5.00	"	25.0		116	21-149				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51137 - EPA 3510C											
LCS (BC51137-BS1) LCS							Prepared & Analyzed: 03/15/2025				
Diphenylamine	29.0	5.00	ug/L	25.0		116	40-140				
Hexachlorocyclopentadiene	17.0	10.0	"	25.0		67.8	10-130				
Isophorone	32.8	5.00	"	25.0		131	25-127	High Bias			
N-nitroso-di-n-propylamine	24.4	5.00	"	25.0		97.7	26-122				
N-Nitrosodiphenylamine	26.0	5.00	"	25.0		104	23-149				
Phenol	ND	5.00	"	25.0			10-110	Low Bias			
Pyridine	ND	5.00	"	35.0			10-90	Low Bias			
Surrogate: SURR: 2-Fluorophenol	*16.8*		*"*	*50.0*		*33.5*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*10.2*		*"*	*50.0*		*20.4*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*20.3*		*"*	*25.0*		*81.2*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*15.8*		*"*	*25.0*		*63.2*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*32.6*		*"*	*50.0*		*65.3*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*19.4*		*"*	*25.0*		*77.8*	*30.7-106*				
LCS Dup (BC51137-BSD1) LCS Dup							Prepared & Analyzed: 03/15/2025				
1,1-Biphenyl	22.8	5.00	ug/L	25.0		91.2	33-95		6.15	20	
1,2,4,5-Tetrachlorobenzene	19.3	5.00	"	25.0		77.4	26-120		7.85	20	
1,2-Diphenylhydrazine (as Azobenzene)	32.0	5.00	"	25.0		128	16-141		18.9	20	
2,3,4,6-Tetrachlorophenol	27.2	5.00	"	25.0		109	30-130		5.48	20	
2,4,5-Trichlorophenol	21.5	5.00	"	25.0		85.9	32-114		7.04	20	
2,4,6-Trichlorophenol	22.7	5.00	"	25.0		90.8	35-118		6.88	20	
2,4-Dichlorophenol	27.2	5.00	"	25.0		109	25-116		9.17	20	
2,4-Dimethylphenol	28.2	5.00	"	25.0		113	15-116		8.86	20	
2,4-Dinitrophenol	30.9	5.00	"	25.0		123	10-170		9.01	20	
2,4-Dinitrotoluene	23.5	5.00	"	25.0		93.9	41-128		8.07	20	
2,6-Dinitrotoluene	24.2	5.00	"	25.0		96.6	45-116		7.16	20	
2-Chloronaphthalene	22.7	5.00	"	25.0		90.9	33-112		6.07	20	
2-Chlorophenol	18.9	5.00	"	25.0		75.8	15-120		1.06	20	
2-Methylnaphthalene	27.3	5.00	"	25.0		109	24-118		10.7	20	
2-Methylphenol	16.9	5.00	"	25.0		67.5	10-110		2.10	20	
2-Nitroaniline	22.2	5.00	"	25.0		88.7	34-129		6.67	20	
2-Nitrophenol	24.9	5.00	"	25.0		99.6	28-118		8.63	20	
3- & 4-Methylphenols	13.2	5.00	"	25.0		53.0	10-107		0.302	20	
3,3-Dichlorobenzidine	18.1	5.00	"	25.0		72.3	15-187		13.6	20	
3-Nitroaniline	15.3	5.00	"	25.0		61.4	24-134		0.130	20	
4,6-Dinitro-2-methylphenol	37.2	5.00	"	25.0		149	10-153		8.02	20	
4-Bromophenyl phenyl ether	23.8	5.00	"	25.0		95.2	34-120		9.83	20	
4-Chloro-3-methylphenol	29.4	5.00	"	25.0		118	20-120		9.26	20	
4-Chloroaniline	11.5	5.00	"	25.0		45.9	10-147		12.6	20	
4-Chlorophenyl phenyl ether	24.3	5.00	"	25.0		97.3	27-121		7.20	20	
4-Nitroaniline	17.0	5.00	"	25.0		68.1	13-134		4.63	20	
4-Nitrophenol	ND	5.00	"	25.0			10-131	Low Bias		20	
Acetophenone	23.1	5.00	"	25.0		92.6	25-110		2.01	20	
Aniline	ND	5.00	"	25.0			10-117	Low Bias		20	
Benzaldehyde	20.0	5.00	"	25.0		79.9	29-117		2.28	20	
Benzoic acid	12.2	5.00	"	25.0		48.9	30-130		9.24	20	
Benzyl alcohol	15.4	5.00	"	25.0		61.4	10-117		2.57	20	
Benzyl butyl phthalate	28.7	5.00	"	25.0		115	29-133		6.73	20	
Bis(2-chloroethoxy)methane	30.1	5.00	"	25.0		120	10-154		8.09	20	
Bis(2-chloroethyl)ether	20.2	5.00	"	25.0		81.0	17-125		1.39	20	
Bis(2-chloroisopropyl)ether	15.9	5.00	"	25.0		63.6	10-139		3.65	20	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51137 - EPA 3510C											
LCS Dup (BC51137-BSD1) LCS Dup							Prepared & Analyzed: 03/15/2025				
Caprolactam	4.63	5.00	ug/L	25.0		18.5	10-137		9.74	20	
Carbazole	27.5	5.00	"	25.0		110	42-126		3.36	20	
Dibenzofuran	24.3	5.00	"	25.0		97.2	36-113		3.05	20	
Diethyl phthalate	27.3	5.00	"	25.0		109	38-115		4.80	20	
Dimethyl phthalate	27.2	5.00	"	25.0		109	38-129		4.93	20	
Di-n-butyl phthalate	29.0	5.00	"	25.0		116	31-120		0.310	20	
Di-n-octyl phthalate	30.7	5.00	"	25.0		123	21-149		6.01	20	
Diphenylamine	31.1	5.00	"	25.0		124	40-140		6.79	20	
Hexachlorocyclopentadiene	18.6	10.0	"	25.0		74.4	10-130		9.28	20	
Isophorone	34.6	5.00	"	25.0		138	25-127	High Bias	5.40	20	
N-nitroso-di-n-propylamine	24.2	5.00	"	25.0		96.7	26-122		1.03	20	
N-Nitrosodiphenylamine	28.1	5.00	"	25.0		113	23-149		7.79	20	
Phenol	ND	5.00	"	25.0			10-110	Low Bias		20	
Pyridine	ND	5.00	"	35.0			10-90	Low Bias		20	
Surrogate: SURR: 2-Fluorophenol	*16.6*		*"*	*50.0*		*33.1*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*9.95*		*"*	*50.0*		*19.9*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*21.2*		*"*	*25.0*		*84.8*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*16.6*		*"*	*25.0*		*66.3*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*36.2*		*"*	*50.0*		*72.4*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*20.4*		*"*	*25.0*		*81.7*	*30.7-106*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51002 - EPA 3535A											
Blank (BC51002-BLK1) Blank							Prepared: 03/13/2025 Analyzed: 03/14/2025				
1,4-Dioxane	ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8	*5.12*		*"*	*8.00*		*64.0*	*36.6-118*				
LCS (BC51002-BS1) LCS							Prepared: 03/13/2025 Analyzed: 03/14/2025				
1,4-Dioxane	3.60	0.300	ug/L	4.00		90.0	50-130				
Surrogate: 1,4-Dioxane-d8	*5.12*		*"*	*8.00*		*64.0*	*36.6-118*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51218 - EPA 1633 Prep											
Blank (BC51218-BLK1) Blank									Prepared: 03/17/2025 Analyzed: 03/18/2025		
Perfluorobutanesulfonic acid (PFBS)	ND	1.77	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.83	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	1.86	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	4.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.91	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.93	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	ND	7.60	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	ND	7.68	"								
Perfluoro-n-butanoic acid (PFBA)	ND	8.00	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.56	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	4.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	4.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	4.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.88	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	ND	7.50	"								
HFPO-DA (Gen-X)	ND	8.00	"								
11CL-PF3OUdS	ND	7.56	"								
9CL-PF3ONS	ND	7.48	"								
ADONA	ND	7.56	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	1.94	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.92	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	5.00	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	25.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	25.0	"								
N-MeFOSE	ND	20.0	"								
N-MeFOSA	ND	2.00	"								
N-EtFOSE	ND	20.0	"								
N-EtFOSA	ND	2.00	"								
Surrogate: M3PFBS	*25.7*		*"*	*23.3*		*110*	*25-150*				
Surrogate: M5PFHxA	*23.6*		*"*	*25.0*		*94.6*	*25-150*				
Surrogate: M4PFHpA	*26.9*		*"*	*25.0*		*108*	*25-150*				
Surrogate: M3PFHxS	*26.3*		*"*	*23.7*		*111*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*24.5*		*"*	*25.0*		*97.8*	*25-150*				
Surrogate: M6PFDA	*11.5*		*"*	*12.5*		*92.0*	*25-150*				
Surrogate: M7PFUdA	*12.7*		*"*	*12.5*		*101*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*10.0*		*"*	*12.5*		*80.1*	*25-150*				
Surrogate: M2PFTeDA	*8.21*		*"*	*12.5*		*65.6*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51218 - EPA 1633 Prep											
Blank (BC51218-BLK1) Blank								Prepared: 03/17/2025 Analyzed: 03/18/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*3.28*		*ng/L*	*100*		*3.28*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*23.2*		*"*	*24.0*		*97.0*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*27.4*		*"*	*50.0*		*54.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*24.9*		*"*	*25.0*		*99.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*47.9*		*"*	*50.0*		*95.8*	*25-150*				
Surrogate: d5-N-EtFOSAA	*56.4*		*"*	*50.0*		*113*	*25-150*				
Surrogate: M2-6:2 FTS	*54.1*		*"*	*47.6*		*114*	*25-200*				
Surrogate: M2-8:2 FTS	*49.8*		*"*	*48.0*		*104*	*25-200*				
Surrogate: M9PFNA	*12.2*		*"*	*12.5*		*97.3*	*25-150*				
Surrogate: M2-4:2 FTS	*56.0*		*"*	*46.9*		*119*	*25-150*				
Surrogate: d-N-MeFOSA	*17.7*		*"*	*25.0*		*70.9*	*25-150*				
Surrogate: d-N-EtFOSA	*15.4*		*"*	*25.0*		*61.6*	*25-150*				
Surrogate: M3HFPO-DA	*92.8*		*"*	*100*		*92.8*	*25-150*				
Surrogate: d9-N-EtFOSE	*158*		*"*	*250*		*63.3*	*25-150*				
Surrogate: d7-N-MeFOSE	*156*		*"*	*250*		*62.5*	*25-150*				
LCS (BC51218-BS1) LCS								Prepared: 03/17/2025 Analyzed: 03/18/2025			
Perfluorobutanesulfonic acid (PFBS)	34.3	1.77	ng/L	35.4		96.9	50-150				
Perfluorohexanoic acid (PFHxA)	40.9	2.00	"	40.0		102	50-150				
Perfluoroheptanoic acid (PFHpA)	32.7	2.00	"	40.0		81.7	50-150				
Perfluorohexanesulfonic acid (PFHxS)	39.2	1.83	"	36.6		107	50-150				
Perfluorooctanoic acid (PFOA)	39.0	2.00	"	40.0		97.5	50-150				
Perfluorooctanesulfonic acid (PFOS)	41.2	1.86	"	37.2		111	50-150				
Perfluorononanoic acid (PFNA)	37.0	2.00	"	40.0		92.4	50-150				
Perfluorodecanoic acid (PFDA)	38.4	2.00	"	40.0		96.0	50-150				
Perfluoroundecanoic acid (PFUnA)	37.0	2.00	"	40.0		92.6	50-150				
Perfluorododecanoic acid (PFDoA)	35.1	2.00	"	40.0		87.7	50-150				
Perfluorotridecanoic acid (PFTrDA)	35.3	2.00	"	40.0		88.3	50-150				
Perfluorotetradecanoic acid (PFTA)	33.9	2.00	"	40.0		84.7	50-150				
N-MeFOSAA	35.7	2.00	"	40.0		89.2	50-150				
N-EtFOSAA	35.9	2.00	"	40.0		89.7	50-150				
Perfluoropentanoic acid (PFPeA)	100	4.00	"	80.0		125	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	38.9	2.00	"	40.0		97.2	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	44.2	1.91	"	38.2		116	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	39.3	1.93	"	38.6		102	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	131	7.60	"	152		86.4	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	128	7.68	"	154		83.0	50-150				
Perfluoro-n-butanoic acid (PFBA)	256	8.00	"	160		160	50-150	High Bias			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	78.3	3.56	"	71.2		110	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	116	4.00	"	80.0		145	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	37.2	4.00	"	80.0		46.5	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	119	4.00	"	80.0		149	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	39.8	1.88	"	37.6		106	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	153	7.50	"	150		102	50-150				
HFPO-DA (Gen-X)	101	8.00	"	80.0		126	50-150				
11CL-PF3OUdS	66.4	7.56	"	75.6		87.8	50-150				
9CL-PF3ONS	78.5	7.48	"	74.8		105	50-150				
ADONA	80.3	7.56	"	75.6		106	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51218 - EPA 1633 Prep											
LCS (BC51218-BS1) LCS								Prepared: 03/17/2025 Analyzed: 03/18/2025			
Perfluorododecanesulfonic acid (PFDoS)	31.9	1.94	ng/L	38.8		82.3	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	45.9	1.92	"	38.4		119	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	140	5.00	"	160		87.4	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	863	25.0	"	800		108	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	822	25.0	"	800		103	50-150				
N-MeFOSE	363	20.0	"	400		90.7	50-150				
N-MeFOSA	31.8	2.00	"	40.0		79.6	50-150				
N-EtFOSE	353	20.0	"	400		88.3	50-150				
N-EtFOSA	44.8	2.00	"	40.0		112	50-150				
Surrogate: M3PFBS	*27.8*		*"*	*23.3*		*119*	*25-150*				
Surrogate: M5PFHxA	*23.7*		*"*	*25.0*		*94.7*	*25-150*				
Surrogate: M4PFHpA	*29.2*		*"*	*25.0*		*117*	*25-150*				
Surrogate: M3PFHxS	*28.5*		*"*	*23.7*		*120*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*25.4*		*"*	*25.0*		*102*	*25-150*				
Surrogate: M6PFDA	*12.6*		*"*	*12.5*		*100*	*25-150*				
Surrogate: M7PFUdA	*13.3*		*"*	*12.5*		*107*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*11.5*		*"*	*12.5*		*91.6*	*25-150*				
Surrogate: M2PFTeDA	*9.40*		*"*	*12.5*		*75.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.75*		*"*	*100*		*4.75*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*21.0*		*"*	*24.0*		*87.5*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*28.4*		*"*	*50.0*		*56.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*23.1*		*"*	*25.0*		*92.2*	*10-150*				
Surrogate: d3-N-MeFOSAA	*49.2*		*"*	*50.0*		*98.3*	*25-150*				
Surrogate: d5-N-EtFOSAA	*55.7*		*"*	*50.0*		*111*	*25-150*				
Surrogate: M2-6:2 FTS	*63.1*		*"*	*47.6*		*133*	*25-200*				
Surrogate: M2-8:2 FTS	*63.1*		*"*	*48.0*		*132*	*25-200*				
Surrogate: M9PFNA	*12.7*		*"*	*12.5*		*102*	*25-150*				
Surrogate: M2-4:2 FTS	*65.5*		*"*	*46.9*		*140*	*25-150*				
Surrogate: d-N-MeFOSA	*20.0*		*"*	*25.0*		*80.1*	*25-150*				
Surrogate: d-N-EtFOSA	*14.1*		*"*	*25.0*		*56.5*	*25-150*				
Surrogate: M3HFPO-DA	*89.3*		*"*	*100*		*89.3*	*25-150*				
Surrogate: d9-N-EtFOSE	*189*		*"*	*250*		*75.4*	*25-150*				
Surrogate: d7-N-MeFOSE	*179*		*"*	*250*		*71.6*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51218 - EPA 1633 Prep											
LCS (BC51218-BS2) LCS								Prepared: 03/17/2025 Analyzed: 03/18/2025			
Perfluorobutanesulfonic acid (PFBS)	3.06	1.77	ng/L	3.54		86.5	50-150				
Perfluorohexanoic acid (PFHxA)	3.75	2.00	"	4.00		93.9	50-150				
Perfluoroheptanoic acid (PFHpA)	2.95	2.00	"	4.00		73.8	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.87	1.83	"	3.66		106	50-150				
Perfluorooctanoic acid (PFOA)	3.56	2.00	"	4.00		89.1	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.37	1.86	"	3.72		90.7	50-150				
Perfluorononanoic acid (PFNA)	3.51	2.00	"	4.00		87.7	50-150				
Perfluorodecanoic acid (PFDA)	3.04	2.00	"	4.00		76.1	50-150				
Perfluoroundecanoic acid (PFUnA)	3.42	2.00	"	4.00		85.5	50-150				
Perfluorododecanoic acid (PFDoA)	3.34	2.00	"	4.00		83.5	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.16	2.00	"	4.00		104	50-150				
Perfluorotetradecanoic acid (PFTA)	3.45	2.00	"	4.00		86.2	50-150				
N-MeFOSAA	2.81	2.00	"	4.00		70.3	50-150				
N-EtFOSAA	3.93	2.00	"	4.00		98.3	50-150				
Perfluoropentanoic acid (PFPeA)	7.82	4.00	"	8.00		97.8	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	3.35	2.00	"	4.00		83.7	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.12	1.91	"	3.82		81.7	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	2.02	1.93	"	3.86		52.4	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 F	14.3	7.60	"	15.2		93.8	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 F	13.1	7.68	"	15.4		85.3	50-150				
Perfluoro-n-butanoic acid (PFBA)	15.7	8.00	"	16.0		98.2	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.19	3.56	"	7.12		101	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	9.82	4.00	"	8.00		123	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.92	4.00	"	8.00		24.0	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	11.1	4.00	"	8.00		138	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	3.91	1.88	"	3.76		104	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 F	14.7	7.50	"	15.0		98.0	50-150				
HFPO-DA (Gen-X)	8.57	8.00	"	8.00		107	50-150				
11CL-PF3OUdS	3.85	7.56	"	7.56		50.9	50-150				
9CL-PF3ONS	5.36	7.48	"	7.48		71.6	50-150				
ADONA	5.85	7.56	"	7.56		77.4	50-150				
Perfluorododecanesulfonic acid (PFDoS)	1.89	1.94	"	3.88		48.6	50-150	Low Bias			
Perfluoro-1-nonanesulfonic acid (PFNS)	3.29	1.92	"	3.84		85.5	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	11.4	5.00	"	16.0		71.2	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	80.0	25.0	"	80.0		100	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	76.5	25.0	"	80.0		95.6	50-150				
N-MeFOSE	31.6	20.0	"	40.0		78.9	50-150				
N-MeFOSA	2.46	2.00	"	4.00		61.4	50-150				
N-EtFOSE	31.0	20.0	"	40.0		77.5	50-150				
N-EtFOSA	1.98	2.00	"	4.00		49.6	50-150	Low Bias			
Surrogate: M3PFBS	*22.6*		*"*	*23.3*		*96.8*	*25-150*				
Surrogate: M5PFHxA	*20.9*		*"*	*25.0*		*83.5*	*25-150*				
Surrogate: M4PFHpA	*24.6*		*"*	*25.0*		*98.6*	*25-150*				
Surrogate: M3PFHxS	*21.9*		*"*	*23.7*		*92.4*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*22.9*		*"*	*25.0*		*91.6*	*25-150*				
Surrogate: M6PFDA	*10.6*		*"*	*12.5*		*85.1*	*25-150*				
Surrogate: M7PFUdA	*10.1*		*"*	*12.5*		*80.9*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*8.49*		*"*	*12.5*		*67.9*	*25-150*				
Surrogate: M2PFTeDA	*5.02*		*"*	*12.5*		*40.2*	*10-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51218 - EPA 1633 Prep											
LCS (BC51218-BS2) LCS								Prepared: 03/17/2025 Analyzed: 03/18/2025			
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*3.17*		*ng/L*	*100*		*3.17*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*22.4*		*"*	*24.0*		*93.6*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*23.5*		*"*	*50.0*		*46.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*20.6*		*"*	*25.0*		*82.6*	*10-150*				
Surrogate: d3-N-MeFOSAA	*37.9*		*"*	*50.0*		*75.8*	*25-150*				
Surrogate: d5-N-EtFOSAA	*37.7*		*"*	*50.0*		*75.5*	*25-150*				
Surrogate: M2-6:2 FTS	*46.7*		*"*	*47.6*		*98.2*	*25-200*				
Surrogate: M2-8:2 FTS	*39.9*		*"*	*48.0*		*83.1*	*25-200*				
Surrogate: M9PFNA	*10.9*		*"*	*12.5*		*87.6*	*25-150*				
Surrogate: M2-4:2 FTS	*53.2*		*"*	*46.9*		*113*	*25-150*				
Surrogate: d-N-MeFOSA	*15.9*		*"*	*25.0*		*63.6*	*25-150*				
Surrogate: d-N-EtFOSA	*12.4*		*"*	*25.0*		*49.5*	*25-150*				
Surrogate: M3HFPO-DA	*95.7*		*"*	*100*		*95.7*	*25-150*				
Surrogate: d9-N-EtFOSE	*97.1*		*"*	*250*		*38.8*	*25-150*				
Surrogate: d7-N-MeFOSE	*116*		*"*	*250*		*46.3*	*25-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51102 - EPA SW846-3510C Low Level											
Blank (BC51102-BLK1) Blank							Prepared: 03/14/2025 Analyzed: 03/16/2025				
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Chlordane, total	ND	0.200	"								
Surrogate: Decachlorobiphenyl	*0.165*		*"*	*0.200*		*82.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.149*		*"*	*0.200*		*74.7*	*30-150*				
LCS (BC51102-BS1) LCS							Prepared: 03/14/2025 Analyzed: 03/16/2025				
4,4'-DDD	0.0757	0.00400	ug/L	0.100		75.7	40-140			20	
4,4'-DDE	0.0715	0.00400	"	0.100		71.5	40-140			20	
4,4'-DDT	0.0854	0.00400	"	0.100		85.4	40-140			20	
Aldrin	0.0705	0.00400	"	0.100		70.5	40-140			20	
alpha-BHC	0.0652	0.00400	"	0.100		65.2	40-140			20	
alpha-Chlordane	0.0707	0.00400	"	0.100		70.7	40-140			20	
beta-BHC	0.0695	0.00400	"	0.100		69.5	40-140			20	
delta-BHC	0.0547	0.00400	"	0.100		54.7	40-140			20	
Dieldrin	0.0726	0.00200	"	0.100		72.6	40-140			20	
Endosulfan I	0.0766	0.00400	"	0.100		76.6	40-140			20	
Endosulfan II	0.0862	0.00400	"	0.100		86.2	40-140			20	
Endosulfan sulfate	0.0743	0.00400	"	0.100		74.3	40-140			20	
Endrin	0.0825	0.00400	"	0.100		82.5	40-140			20	
Endrin aldehyde	0.0887	0.0100	"	0.100		88.7	40-140			20	
Endrin ketone	0.0799	0.0100	"	0.100		79.9	40-140			20	
gamma-BHC (Lindane)	0.0667	0.00400	"	0.100		66.7	40-140			20	
gamma-Chlordane	0.0707	0.0100	"	0.100		70.7	40-140			20	
Heptachlor	0.0726	0.00400	"	0.100		72.6	40-140			20	
Heptachlor epoxide	0.0739	0.00400	"	0.100		73.9	40-140			20	
Methoxychlor	0.0778	0.00400	"	0.100		77.8	40-140			20	
Surrogate: Decachlorobiphenyl	*0.131*		*"*	*0.200*		*65.5*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.136*		*"*	*0.200*		*68.0*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51102 - EPA SW846-3510C Low Level											
LCS Dup (BC51102-BSD1) LCS Dup								Prepared: 03/14/2025 Analyzed: 03/16/2025			
4,4'-DDD	0.104	0.00400	ug/L	0.100		104	40-140		31.2	20	Non-dir.
4,4'-DDE	0.0987	0.00400	"	0.100		98.7	40-140		32.0	20	Non-dir.
4,4'-DDT	0.117	0.00400	"	0.100		117	40-140		31.3	20	Non-dir.
Aldrin	0.0981	0.00400	"	0.100		98.1	40-140		32.7	20	Non-dir.
alpha-BHC	0.0891	0.00400	"	0.100		89.1	40-140		30.9	20	Non-dir.
alpha-Chlordane	0.0966	0.00400	"	0.100		96.6	40-140		31.0	20	Non-dir.
beta-BHC	0.0971	0.00400	"	0.100		97.1	40-140		33.2	20	Non-dir.
delta-BHC	0.0751	0.00400	"	0.100		75.1	40-140		31.4	20	Non-dir.
Dieldrin	0.0975	0.00200	"	0.100		97.5	40-140		29.3	20	Non-dir.
Endosulfan I	0.108	0.00400	"	0.100		108	40-140		33.9	20	Non-dir.
Endosulfan II	0.119	0.00400	"	0.100		119	40-140		31.9	20	Non-dir.
Endosulfan sulfate	0.102	0.00400	"	0.100		102	40-140		31.3	20	Non-dir.
Endrin	0.114	0.00400	"	0.100		114	40-140		32.4	20	Non-dir.
Endrin aldehyde	0.120	0.0100	"	0.100		120	40-140		30.1	20	Non-dir.
Endrin ketone	0.112	0.0100	"	0.100		112	40-140		33.8	20	Non-dir.
gamma-BHC (Lindane)	0.0892	0.00400	"	0.100		89.2	40-140		28.8	20	Non-dir.
gamma-Chlordane	0.0968	0.0100	"	0.100		96.8	40-140		31.2	20	Non-dir.
Heptachlor	0.102	0.00400	"	0.100		102	40-140		33.2	20	Non-dir.
Heptachlor epoxide	0.102	0.00400	"	0.100		102	40-140		31.5	20	Non-dir.
Methoxychlor	0.109	0.00400	"	0.100		109	40-140		33.6	20	Non-dir.
Surrogate: Decachlorobiphenyl	*0.189*		*"*	*0.200*		*94.7*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.188*		*"*	*0.200*		*93.9*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51101 - EPA SW846-3510C Low Level											
Blank (BC51101-BLK1) Blank								Prepared: 03/14/2025 Analyzed: 03/17/2025			
Aroclor 1016 [2C]	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.137*		*"*	*0.200*		*68.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.186*		*"*	*0.200*		*93.0*	*30-120*				
LCS (BC51101-BS2) LCS								Prepared: 03/14/2025 Analyzed: 03/17/2025			
Aroclor 1016 [2C]	0.543	0.0500	ug/L	1.00		54.3	40-120				
Aroclor 1260	0.688	0.0500	"	1.00		68.8	40-120				
Surrogate: Tetrachloro-m-xylene	*0.123*		*"*	*0.200*		*61.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.175*		*"*	*0.200*		*87.5*	*30-120*				
LCS Dup (BC51101-BSD2) LCS Dup								Prepared: 03/14/2025 Analyzed: 03/17/2025			
Aroclor 1016 [2C]	0.531	0.0500	ug/L	1.00		53.1	40-120		2.23	30	
Aroclor 1260	0.654	0.0500	"	1.00		65.4	40-120		5.04	30	
Surrogate: Tetrachloro-m-xylene	*0.118*		*"*	*0.200*		*59.0*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.160*		*"*	*0.200*		*80.0*	*30-120*				

Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51190 - EPA 8151A											
Blank (BC51190-BLK1) Blank							Prepared & Analyzed: 03/17/2025				
2,4,5-T	ND	5.00	ug/L								
2,4,5-TP (Silvex)	ND	5.00	"								
2,4-D	ND	5.00	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*110*		*"*	*125*		*88.2*	*30-150*				
LCS (BC51190-BS1) LCS							Prepared & Analyzed: 03/17/2025				
2,4,5-T	16.0	5.00	ug/L	20.0		80.0	10-140				
2,4,5-TP (Silvex)	14.5	5.00	"	20.0		72.5	10-139				
2,4-D	14.2	5.00	"	20.0		71.2	10-140				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	*98.5*		*"*	*125*		*78.8*	*30-150*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50956 - EPA 3015A											
Blank (BC50956-BLK1) Blank								Prepared & Analyzed: 03/13/2025			
Aluminum	ND	0.0556	mg/L								
Barium	ND	0.0278	"								
Calcium	ND	0.0556	"								
Chromium	ND	0.00556	"								
Cobalt	ND	0.00444	"								
Copper	ND	0.0222	"								
Iron	ND	0.278	"								
Lead	ND	0.00556	"								
Magnesium	ND	0.0556	"								
Manganese	ND	0.00556	"								
Nickel	ND	0.0111	"								
Potassium	ND	0.0556	"								
Silver	ND	0.00556	"								
Sodium	ND	0.556	"								
Vanadium	ND	0.0111	"								
Zinc	ND	0.0278	"								
LCS (BC50956-BS1) LCS								Prepared & Analyzed: 03/13/2025			
Aluminum	1.91		ug/mL	2.00		95.3	80-120				
Barium	2.11		"	2.00		105	80-120				
Calcium	1.90		"	1.00		190	80-120	High Bias			
Chromium	0.210		"	0.200		105	80-120				
Cobalt	0.529		"	0.500		106	80-120				
Copper	0.265		"	0.250		106	80-120				
Iron	1.05		"	1.00		105	80-120				
Lead	0.522		"	0.500		104	80-120				
Magnesium	1.00		"	1.00		100	80-120				
Manganese	0.523		"	0.500		105	80-120				
Nickel	0.533		"	0.500		107	80-120				
Potassium	0.949		"	1.00		94.9	80-120				
Silver	0.0484		"	0.0500		96.8	80-120				
Sodium	1.19		"	1.00		119	80-120				
Vanadium	0.510		"	0.500		102	80-120				
Zinc	0.555		"	0.500		111	80-120				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51019 - EPA 3015A											
Blank (BC51019-BLK1) Blank								Prepared: 03/13/2025 Analyzed: 03/14/2025			
Aluminum - Dissolved	0.0644	0.0556	mg/L								
Barium - Dissolved	ND	0.0278	"								
Calcium - Dissolved	ND	0.0556	"								
Chromium - Dissolved	ND	0.00556	"								
Cobalt - Dissolved	ND	0.00444	"								
Copper - Dissolved	ND	0.0222	"								
Iron - Dissolved	ND	0.278	"								
Lead - Dissolved	ND	0.00556	"								
Magnesium - Dissolved	ND	0.0556	"								
Manganese - Dissolved	ND	0.00556	"								
Nickel - Dissolved	ND	0.0111	"								
Potassium - Dissolved	ND	0.0556	"								
Silver - Dissolved	ND	0.00556	"								
Sodium - Dissolved	ND	0.556	"								
Vanadium - Dissolved	ND	0.0111	"								
Zinc - Dissolved	ND	0.0278	"								
LCS (BC51019-BS1) LCS								Prepared: 03/13/2025 Analyzed: 03/14/2025			
Aluminum - Dissolved	1.97		ug/mL	2.00		98.7	80-120				
Barium - Dissolved	2.00		"	2.00		100	80-120				
Calcium - Dissolved	1.50		"	1.00		150	80-120	High Bias			
Chromium - Dissolved	0.194		"	0.200		97.1	80-120				
Cobalt - Dissolved	0.512		"	0.500		102	80-120				
Copper - Dissolved	0.257		"	0.250		103	80-120				
Iron - Dissolved	0.984		"	1.00		98.4	80-120				
Lead - Dissolved	0.534		"	0.500		107	80-120				
Magnesium - Dissolved	1.03		"	1.00		103	80-120				
Manganese - Dissolved	0.503		"	0.500		101	80-120				
Nickel - Dissolved	0.510		"	0.500		102	80-120				
Potassium - Dissolved	1.01		"	1.00		101	80-120				
Silver - Dissolved	0.0464		"	0.0500		92.8	80-120				
Sodium - Dissolved	1.13		"	1.00		113	80-120				
Vanadium - Dissolved	0.478		"	0.500		95.5	80-120				
Zinc - Dissolved	0.501		"	0.500		100	80-120				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50961 - EPA 3015A											
Blank (BC50961-BLK1) Blank								Prepared & Analyzed: 03/13/2025			
Antimony	ND	1.11	ug/L								
Arsenic	ND	1.11	"								
Beryllium	ND	0.333	"								
Cadmium	ND	0.556	"								
Selenium	ND	1.11	"								
Thallium	ND	1.11	"								
LCS (BC50961-BS1) LCS								Prepared & Analyzed: 03/13/2025			
Antimony	57.3		ug/L	50.0		115	80-120				
Arsenic	48.4		"	50.0		96.9	80-120				
Beryllium	49.3		"	50.0		98.5	80-120				
Cadmium	55.6		"	50.0		111	80-120				
Selenium	48.0		"	50.0		95.9	80-120				
Thallium	45.6		"	50.0		91.3	80-120				
Duplicate (BC50961-DUP1) Duplicate *Source sample: 25C0643-01 (TMW42_031125)								Prepared & Analyzed: 03/13/2025			
Antimony	ND	1.11	ug/L		ND					20	
Arsenic	5.75	1.11	"		4.79				18.3	20	
Beryllium	0.409	0.333	"		0.402				1.87	20	
Cadmium	0.572	0.556	"		ND					20	
Selenium	1.43	1.11	"		ND					20	
Thallium	ND	1.11	"		ND					20	
Matrix Spike (BC50961-MS1) Matrix Spike *Source sample: 25C0643-01 (TMW42_031125)								Prepared & Analyzed: 03/13/2025			
Antimony	54.8		ug/L	50.0	0.162	109	75-125				
Arsenic	56.1		"	50.0	4.31	104	75-125				
Beryllium	38.1		"	50.0	0.361	75.5	75-125				
Cadmium	51.5		"	50.0	0.373	102	75-125				
Selenium	56.5		"	50.0	0.773	111	75-125				
Thallium	43.9		"	50.0	0.006	87.9	75-125				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC51031 - EPA 3015A											
Blank (BC51031-BLK1) Blank								Prepared: 03/13/2025 Analyzed: 03/14/2025			
Antimony - Dissolved	ND	1.11	ug/L								
Arsenic - Dissolved	ND	1.11	"								
Beryllium - Dissolved	ND	0.333	"								
Cadmium - Dissolved	ND	0.556	"								
Selenium - Dissolved	ND	1.11	"								
Thallium - Dissolved	ND	1.11	"								
LCS (BC51031-BS1) LCS								Prepared: 03/13/2025 Analyzed: 03/14/2025			
Antimony - Dissolved	56.2		ug/L	50.0		112	80-120				
Arsenic - Dissolved	52.5		"	50.0		105	80-120				
Beryllium - Dissolved	51.5		"	50.0		103	80-120				
Cadmium - Dissolved	52.4		"	50.0		105	80-120				
Selenium - Dissolved	50.8		"	50.0		102	80-120				
Thallium - Dissolved	49.6		"	50.0		99.1	80-120				
Duplicate (BC51031-DUP1) Duplicate *Source sample: 25C0643-01 (TMW42_031125)								Prepared: 03/13/2025 Analyzed: 03/14/2025			
Antimony - Dissolved	ND	1.11	ug/L		ND					20	
Arsenic - Dissolved	ND	1.11	"		ND					20	
Beryllium - Dissolved	ND	0.333	"		ND					20	
Cadmium - Dissolved	ND	0.556	"		ND					20	
Selenium - Dissolved	ND	1.11	"		ND					20	
Thallium - Dissolved	ND	1.11	"		ND					20	
Matrix Spike (BC51031-MS1) Matrix Spike *Source sample: 25C0643-01 (TMW42_031125)								Prepared: 03/13/2025 Analyzed: 03/14/2025			
Antimony - Dissolved	52.4		ug/L	50.0	-0.235	105	75-125				
Arsenic - Dissolved	50.9		"	50.0	0.685	100	75-125				
Beryllium - Dissolved	42.5		"	50.0	0.008	85.1	75-125				
Cadmium - Dissolved	47.7		"	50.0	0.021	95.4	75-125				
Selenium - Dissolved	46.3		"	50.0	-0.160	92.6	75-125				
Thallium - Dissolved	48.8		"	50.0	0.017	97.5	75-125				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte		Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50940 - EPA SW846-7470A												
Blank (BC50940-BLK1)	Blank								Prepared & Analyzed: 03/13/2025			
Mercury - Dissolved		ND	0.0002	mg/L								
Blank (BC50940-BLK2)	Blank								Prepared & Analyzed: 03/13/2025			
Mercury - Dissolved		ND	0.0002	mg/L								
LCS (BC50940-BS1)	LCS								Prepared & Analyzed: 03/13/2025			
Mercury - Dissolved		0.0020	0.0002	mg/L	0.00200		102	80-120				
LCS (BC50940-BS2)	LCS								Prepared & Analyzed: 03/13/2025			
Mercury - Dissolved		0.0020	0.0002	mg/L	0.00200		101	80-120				
Batch BC51056 - EPA SW846-7470A												
Blank (BC51056-BLK1)	Blank								Prepared & Analyzed: 03/14/2025			
Mercury		ND	0.0002	mg/L								
Blank (BC51056-BLK2)	Blank								Prepared & Analyzed: 03/14/2025			
Mercury		ND	0.0002	mg/L								
LCS (BC51056-BS1)	LCS								Prepared & Analyzed: 03/14/2025			
Mercury		0.0019225	0.0002	mg/L	0.00200		96.1	80-120				
LCS (BC51056-BS2)	LCS								Prepared & Analyzed: 03/14/2025			
Mercury		0.0019491	0.0002	mg/L	0.00200		97.5	80-120				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC50830 - Analysis Preparation											
Blank (BC50830-BLK1) Blank								Prepared & Analyzed: 03/11/2025			
Chromium, Hexavalent	ND	0.0100	mg/L								
LCS (BC50830-BS1) LCS								Prepared & Analyzed: 03/11/2025			
Chromium, Hexavalent	0.460	0.0100	mg/L	0.500		91.9	85-115				
Batch BC50889 - Analysis Preparation											
Blank (BC50889-BLK1) Blank								Prepared & Analyzed: 03/12/2025			
Cyanide, total	ND	0.0100	mg/L								
LCS (BC50889-BS1) LCS								Prepared & Analyzed: 03/12/2025			
Cyanide, total	0.103	0.0100	mg/L	0.100		103	80-120				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
25C0643-01	TMW42_031125	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
25C0643-02	GWTB06_031125	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-LCS-H	The LCS recovery for this PFAS compound was above control limits.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This legal document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 2161 Whitesville Rd Toms River, NJ 08755 clientservices@yorklab.com 800-306-YORK

YORK Project Number: 25C0643

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Report To:
Company: Langan
Address: 368 North Ave, 8th Fl NY, NY 10001
Phone: 212-479-5400
Contact: Lexi Haley
E-mail: LHaley@langan.com

Invoice To:
Company:
Address:
Phone:
Contact:
E-mail:

YOUR Project Name / Number: Proposed Bally's Casino - Ring Road at Ferry Point Park 17077.3001

PO Number:

Samples Collected From: NY [X] NJ [ ] CT [ ] PA [ ] Other: (please specify)

Turn-Around Time: RUSH - Next Day [ ] RUSH - Two Day [ ] RUSH - Three Day [ ] RUSH - Four Day [ ] RUSH - Five Day [ ] Standard (6-9 Day) [X] PFAS Standard 7-10 Day [ ]

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Sarah Walters

Matrix Codes: S - soil/solid/sludge; GW - groundwater; DW - drinking water; SW - surface water; WW - wastewater; O - Oil; Other

Report Type (circle): QA Report; Summary (Results Only); NY ASP B Package; NJ Reduced; NJ DKQP; NJ Full; CT RCP

EDD Type (circle): EQuIS (standard); NYSDEC EQuIS; NJDEP SRP Haz Site; Standard Excel; CMDP; Other:

Regulatory Comparative: Compared to the following Regulation(s): (please fill in)

Field Filtered [X] Lab Filtered [ ]

Sample Identification	Date	Time	Matrix	Unpreserved	HCl (hydrochloric acid)	MeOH (methanol)	HNO_3 (nitric acid)	H_2SO_4 (sulfuric acid)	NaOH (sodium hydroxide)	$Na_2S_2O_3$ (sodium thio.)	Trizma	Ammonium Acetate	Other:	Part 375 VOCs	Part 375 SVOCs, PCBs, Pest.	Herb, TAL metals (incl Hg)	tri chromium & total cyanide	(dissolved & total) 1,4-dioxane	PFAS						Grab or Comp. G/C
TMW42_031125	3/11/25	GW ↔	0947	10	3		2		1					X	X	X	X	X	X						
GWTB06_031125	↓	AQ ↔	—		2									X											

Comments: please cc: datamanagement@langan.com areach@langan.com & swalters@langan.com

Samples iced/chilled at time of lab pickup circle Yes or No

Lab Sample Receiving Checklist (to be completed by the receiving laboratory only) Circle Y / N
Custody Seals: Y / N Containers Intact: Y / N COC/Labels Agree: Y / N Preservation Confirmed: Y / N
COC Complete: Y / N COC Received: Y / N Appropriate Sample Volumes: Y / N Appropriate Sample Containers: Y / N
Cooler Temperature Confirmed: Y / N Samples Submitted within Holding Times: Y / N Corrective Action Form Required: Y / N

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Sarah Walters (Langan)	3/11/25 1436	A. Husain	3/11/25 14:36	A. Husain	3/11/25 19:55
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				[signature]	3/11/25 19:55 / 2.3 Degrees C

Appendix C

Construction Health and Safety Plan

CONSTRUCTION HEALTH AND SAFETY PLAN

FOR

PROPOSED BALLY'S CASINO – RING ROAD AT FERRY POINT PARK BRONX, NEW YORK Portions of Bronx Borough Tax Map Block 5622, Lot 1

Prepared for

Bally's Corporation
100 Westminster Street
Providence, Rhode Island

Prepared by:

Langan Engineering, Environmental, Surveying Landscape Architecture and Geology
368 Ninth Avenue, 8th Floor
New York, New York 10001

April 2025
Langan Project No. 170773001

LANGAN

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1.0 INTRODUCTION

1.1 General

This CONSTRUCTION HEALTH AND SAFETY PLAN (CHASP) was developed to address disturbance of known and reasonably anticipated subsurface contaminants and comply with Occupational Safety and Health Administration (OSHA) Standard 29 Code of Federal Regulation (CFR) 1910.120(b)(4), Hazardous Waste Operations and Emergency Response during anticipated site work for a section of the Hutchinson River Parkway, referred to as Ring Road, located within Ferry Point Park (FPP), Bronx, New York that is part of Bronx Block 5622, Lot 1 (the "Site").

This CHASP provides the minimum requirements for implementing site operations during future remedial measures. All contractors performing work on this site must implement their own CHASP that, at a minimum, adheres to this CHASP. The contractor is responsible for their own health and safety and that of their subcontractors. Langan personnel will implement this CHASP while onsite.

The content of this CHASP may change or undergo revision based upon additional information made available to health and safety personnel, monitoring results, or changes in the work plan.

1.2 Site Location and Background

The site is an approximately 9.61-acre, U-shaped section of FPP, that primarily serves as a park thoroughfare and public recreation space and is identified on the New York City Bronx Borough Tax Map as part of Block 5622, Lot 1. The site is bound by Schley Avenue, the Hutchinson River Parkway, and service roads to the north; Bally's Golf Links at Ferry Point golf course to the east; Ferry Point Park and the Bronx-Whitestone Bridge to the south; and Ferry Point Park to the west. Between the western and eastern legs of the U-shape formed by the site lies public parking areas for Ferry Point Park and the Bronx-Whitestone Bridge Metropolitan Transit Authority (MTA) Building.

A review of historical records indicate that the site and adjacent areas were undeveloped and predominantly marsh- and swampland from the 1890s to the 1930s, and the majority of the area was part of Westchester Creek and the Baxter Creek Inlet (now the East River) before infilling and development of Ferry Point Park in the 1940s. By 1947, the site and surrounding area had been infilled to create new land, and Ring Road had been constructed. General improvements to the site were completed by 2015, and the site remains relatively unchanged through present-day. A site location map is provided as Figure 1.

1.3 Summary of Work Tasks

1.3.1 Geophysical Investigation - Underground Utility Clearance Policy

Prior to the commencement of intrusive field activities (i.e., all soil borings, test pits, or excavations); Langan field engineers will follow the Langan Underground Utility Clearance Policy including the retaining one or more geophysical consultants, if required, to conduct geophysical surveys using ground penetrating radar (GPR) and electromagnetic detection equipment. The application of the Langan Underground Utility Clearance policy is mandatory unless a site wide or a specific location exemption has been granted in writing by the principal-in-charge (PIC).

The objective of a geophysical survey is to identify any underground storage tank (UST) structures, drains, underground utilities, and other subsurface anomalies that may be encountered during an intrusive investigation. Langan personnel will observe the geophysical survey of each location and confirm the locations are both accessible and free of potential utility or other known or suspected subsurface structures. There will be no exemption to this section unless granted by written approval by the PIC.

1.3.2 "Soft-Dig" Clearance of Borehole Locations

In accordance with Langan's Underground Utility Clearance Policy, Langan will instruct the drilling or excavation contractor to "Soft-Dig" each target soil boring, test pit, or excavation location as specified in Section 1.3.1. Soft dig is defined as using a vacuum system (with or without an air knife) or hand auger to clear soil from the proposed soil boring location to a depth of 5-feet. When excavating a test pit or larger excavation, the exaction contractor will "peal" away thin layers of soil with their excavator or shovel to daylight potential underground structures until achieving the required 5-feet depth. If using an excavator, the contractor must have a worker observing the excavator bucket/shovel warning the excavator operator when the bucket/shovel encounters a possible underground structure. At which point, the potential structure must be hand shoveled until it is fully daylighted. Langan personnel will confirm that the "soft dig" activities are completed to these specifications.

1.3.3 Day Lighting Excavation and Soil Screening

Langan may retain one or more excavation contractors to daylight buried unidentified structures. The purpose of the daylighting is to confirm if these structures are subsurface structures of concern including USTs, utilities sewer lines, storm water drains, electrical, gas or other utility line as well as other artifacts pertinent to the work plan. The excavation contractors will contact the appropriate utility mark-out authority and make available to their staff the verification number and effective dates.

The excavation contractor will employ "soft dig" methods as defined in Section 1.3.2. Langan may screen excavated soil for visual, olfactory, and instrumental indicators suggestive of a potential chemical or petroleum release. Instrument screening for the presence of volatile organic compounds (VOC) may be performed with a duly calibrated photoionization detector (PID). Contractors will notify Langan personnel if they identify indications suggestive of a potential chemical or petroleum release. Contaminated material shall be handled, and property disposed in accordance with federal, state and city regulations, criteria, and guidelines.

1.3.4 Geotechnical Soil Boring

Langan may retain one or more geotechnical drilling contractors to advance geotechnical soil borings to a depth bgs specified in the work plan. The locations may be based on the results of the geophysical investigation, site inspection and document review. The drilling contractors will contact the appropriate utility mark-out authority and make available to their drilling staff the verification number and effective dates.

Langan will observe the borehole advancement and record appropriate geotechnical data including the results of Standard Penetration Tests (SPT), soil and stratigraphic identification, and other data as required by the work plan. The geotechnical boring may also be cored in accordance with the work plan if bedrock is encountered. One or more borings may be completed as observation wells to be completed as specified in the work plan. All borings will be backfilled and abandoned in accordance with work plan specifications. Observation wells may be abandoned at a future date.

Langan personnel may collect soil samples for geotechnical evaluation. Soil samples may be submitted to one or more geotechnical laboratories and analyzed in accordance with work plan specifications.

1.3.5 Geotechnical Test Pits

Langan may retain an excavation contractor to advance geotechnical test pits to a depth below grade surface (bgs) specified in the work plan. Locations will be based on the results of the geophysical survey, the site inspection and document review. The excavation contractor is responsible for all permits and will contact the appropriate utility mark-out authority and make available to their staff the verification number and effective dates.

The excavation contractor may be required to use a bladed equipped excavation bucket. Langan personnel will confirm this and observe the test pit excavation noting foundation and soil attributes as required by the work plan. Langan personnel may collect soil samples for geotechnical evaluation. The excavation will be filled with soil after the observations are

completed and samples are collected.

Soil samples, if collected, will be submitted to a geotechnical laboratory, and analyzed in accordance with work plan specifications.

1.3.6 Cone Penetration

Langan may retain one or more Cone Penetration (or Cone Penetrometer Test [CPT]) contractors to complete CPT or Seismic Cone Penetration Tests (SCPT) surveys at the site. The locations and targeted depths of the CPTs/SPCTs will be based on the results of the geophysical survey, the site inspection and document review. The CPT contractors are responsible for all permits and will contact the appropriate utility mark-out authority and make available to their staff the verification number and effective dates.

Langan may record raw or process data in accordance with the work plan. Resulting boreholes from the CPTs/SPCTs will be backfilled to grade in accordance with the work plan.

1.3.7 Decommissioning and Removal of Underground Storage Tank

If a UST is encountered, a UST decommissioning and removal contractor shall furnish all labor and materials, equipment and incidentals required for the proper decontamination, removal, and closure of any UST in accordance with federal, state, and local regulations. Langan personnel will monitor VOCs with a calibrated PID downwind from the UST excavation and record the PID readings.

1.3.8 Excavation and Soil Screening

Excavation and soil screen are included as part of the proposed remedial pilot test and as a general remedial plan, Langan field personnel will document these activities. Pursuant to these activities, Langan will screen excavated soil for visual, olfactory, and instrumental indicators suggestive of a potential chemical or petroleum release. Instrument screening for the presence of VOCs may be performed with a duly calibrated PID. Langan will observe contractors excavating for utilities, foundation components, and potential grading using heavy equipment and hand tools. Contractors will notify Langan personnel if they identify indications suggestive of a potential chemical or petroleum release. Contaminated material shall be handled, and properly disposed of in accordance with federal, state, and city regulations, criteria, and guidelines.

1.3.9 Soil Sampling

As part of the overall planned excavation activities, soil samples (waste characterization, excavation endpoint, delineation, or quality assurance/quality control [QA/QC]) may be collected

during construction, as required. Langan personnel will coordinate with the contractor in sampling soil (in accordance with the work plan, where applicable).

Soil samples will be submitted to a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory and analyzed in accordance with work plan specifications.

1.3.10 Stockpiling

Potentially impacted soil may be stockpiled pending laboratory analysis and determining proper off-site disposal. Visibly contaminated soil, if encountered, shall be segregated and stockpiled on at least 10-mil (1/1000th of an inch) plastic sheeting; reusable soil and fill shall be segregated and stockpiled separately from unusable fill, concrete and other debris; the stockpiles shall be kept covered with 6-mil-thick plastic sheeting; the plastic sheeting covering the stockpiles shall be anchored firmly in place by weights, stakes, or both; the Contractor shall maintain the plastic sheeting.

1.3.11 Characterization of Excavated Material

When required by the work plan, Langan personnel will characterize excavated soil or clean backfill in accordance with Langan standards.

1.3.12 Construction Dewatering

Construction dewatering, while not specific to the work plan, may be initiated if needed. If initiated, the dewatering contractor shall be responsible for handling contaminated dewatering fluids in accordance with federal, state, and local regulations. Dewatering fluids are likely to be discharged to the local sanitary sewer system after treatment and under an approved regulatory permit. Alternatively, the contractor may provide containerized storage to allow for testing of groundwater prior to, and after, treatment and before disposal. If required, Langan field personnel may sample dewatering treatment system liquids from either a discharge standpipe or a storage tank. Dewatering samples will be submitted to an ELAP-certified laboratory for analysis.

1.3.13 Excavation Backfill

Areas of the site that were over-excavated may be backfilled to development grade (i.e., the grade required to complete construction of the foundation and sidewalk extension). Imported material should meet specifications defined in the work plan or consist of clean fill that meets the lower of the 6 New York Codes, Rules, and Regulations (NYCRR) Part 375-6.8(a) Restricted Use Restricted-Residential (RURR) and Protection of Groundwater (PGW) Soil Cleanup Objectives (SCO) or other acceptable fill material such as virgin stone from a permitted mine or

quarry or recycled concrete aggregate (RCA).

1.3.14 Construction Activity Inspections and Observations

Langan will observe construction activities including the general oversight, observation of landscaping activities, and other select observation, project management, and supervision as specified in the work plan or in accordance with the construction documents, or special inspection requirements administered by the New York City Department of Buildings. Materials used for construction will be inspected by Langan for conformance to the design documents.

1.3.15 Support of Excavation (SOE)

Langan personnel will perform observational and inspection activities in support of excavation. These activities include drilling of soil pilings and tiebacks, and other activities specified in the work plan.

1.3.16 Storm water Pollution Prevention Inspection

If required and in accordance with the work plan, Langan personnel with Storm Water Pollution Prevention (SWPPP) inspection credentials will conduct SWPPP inspections. Langan will observe the stormwater pollution prevention system install to document that the install is in accordance with the work plan and take appropriate measures if impacted soil is observed during excavation.

1.3.17 Observation/Monitoring Well Plugging and Abandonment

At an unspecified future date, the observation/monitoring wells will be abandoned. Plugging and abandonment will be in accordance with federal and state requirements. Langan may retain a drilling contractor to complete the plugging and abandonment activities. The contractor will contact the appropriate utility mark-out authority and make available to their field staff the verification number and effective dates. Langan may observe the plugging and abandonment of one or more observation/monitoring wells to document that the plugging and abandonment activities were completed in accordance with the work plan and regulations.

1.3.18 QA/QC Sampling

Samples for QA/QC may also be collected and submitted to an approved laboratory and analyzed in accordance with work plan specifications. Information regarding the QA/QC samples including required method of analysis may be included in the same COC as the soil samples unless otherwise instructed by the work plan.

1.3.19 Equipment Decontamination

Before the start of the day's sampling and after sampling each run, sampling equipment will be decontaminated by the decontamination process outlined Attachment B - Decontamination Procedures. Decontamination wastes and purge water will be temporarily stored on site pending analytical results.

1.3.20 Management of Investigative-Derived Waste

The investigative-derived waste (IDW) generated during this investigation will be contained in DOT-approved 55-gallon drums. The drums will be temporarily stored on the site or as directed by the client representative. All drums will be filled between to two-thirds full to allow easy maneuvering during drum pickup and disposal. Drum labels are to be provided by Langan (Environmental Closet). All drums will be labeled as "IDW Pending Analysis" until sample data are reported from the laboratory. Drum labels will include date filled and locations where waste was generated along with the standard information required by the labels in accordance with the Langan SOP09, Drum Labeling.

Closed top drums are to be used to store liquids. Debris, including plastic sheeting, polyethylene tubing, personal protection equipment (PPE), decontamination debris, etc. will be segregated from and disposed in large heavy duty garbage bags and disposed of at the site. Excess unused glassware should be returned to the lab along with the last day of collection samples.

1.3.21 Drum Sampling

Langan personnel may collect drum samples, as required, prior to off-site drum disposal. Samples will be placed into laboratory-supplied batch-certified clean glassware and submitted to an approved laboratory and analyzed in accordance with work plan specifications, if required.

1.3.22 Surveying

Surveying activities may be completed by Langan. Surveying will be conducted by licensed surveyors.

2.0 IDENTIFICATION OF KEY PERSONNEL/HEALTH AND SAFETY PERSONNEL

The following briefly describes the health and safety (H&S) designations and general responsibilities that may be employed for this site. The titles have been established to accommodate the project needs and requirements and ensure the safe conduct of site activities. The H&S personnel requirements for a given work location are based on the proposed site activities.

2.1 Langan Project Manager

The Langan Environmental Project Manager (PM) is Lexi Haley, the Geotechnical PM is Samuel Singer, and the Site/Civil PM is Margie Hammell, their responsibilities include:

- Ensuring that this CHASP is developed, current, and approved prior to on-site activities.
- Ensuring that the tasks in the project are performed in a manner consistent with Langan's comprehensive *Construction Health and Safety Program for Hazardous Waste Operations* and this CHASP.

2.2 Langan Corporate Construction Health and Safety Manager

The Langan Corporate Construction Health and Safety Manager is Tony Moffa. His responsibilities include:

- Updating the *Construction Health and Safety Program for Hazardous Waste Operations*.
- Assisting the site Construction Health and Safety Officer (HSO) with the development of the CHASP, updating CHASP as dictated by changing conditions, job site inspection results, etc., and approving changes to this CHASP.
- Assisting the HSO in the implementation of this CHASP and conducting Jobsite Safety Inspections and assisting with communication of results and correction of shortcomings found.
- Maintaining records on personnel (medical evaluation results, training and certifications, accident investigation results, etc.).

2.3 Langan Site Health & Safety Officer

The Langan site HSO is William Bohrer. His responsibilities include:

- Participating in the development and implementation of this CHASP.
- When on-site, assisting the Langan Field Team Leader in conducting Tailgate Safety Meetings and Jobsite Safety Inspections and correcting any shortcomings in a timely manner.
- Ensuring that proper PPE is available, worn by employees, and properly stored and maintained.
- Controlling entry into and exit from the site contaminated areas or zones.
- Monitoring employees for signs of stress, such as heat stress, fatigue, and cold exposure.
- Monitoring site hazards and conditions.
- Knowing (and ensuring that all site personnel also know) emergency procedures, evacuation routes, and the telephone numbers of the ambulance, local hospital, poison

control center, fire department, and police department.

- Resolving conflicts that may arise concerning safety requirements and working conditions.
- Reporting all incidents, injuries, and near misses to the Langan Incident/Injury Hotline immediately and the client representative.

2.4 Langan Field Team Leader Responsibilities

The Langan Field Team Leader (FTL) is to be determined prior to the start of field activities. The Field Team Leader's responsibilities include:

- The management of the day-to-day site activities and implementation of this CHASP in the field.
- Participating in and/or conducting Tailgate Safety Meetings and Jobsite Safety Inspections and correcting any shortcomings in a timely manner.
- When a Community Air Monitoring Operating Program (CAMP) is part of the scope, the FTL will set up and maintain community air monitoring activities and instruct the responsible contractor to implement organic vapor or dust mitigation when necessary.
- Overseeing the implementation of activities specified in the IRMWP.2.5 Contractor Responsibilities

2.5 Contractor Responsibilities

The contractor must develop and implement their own CHASP for their employees, their subcontractors, and consultants. The contractor is responsible for their own health and safety and that of their subcontractors. Contractors operating on the site must designate their own FTL, HSO, and Health and Safety Manager (HSM). The contractor's CHASP will be at least as stringent as this CHASP. The contractor must be familiar with and abide by the requirements outlined in their own CHASP. A contractor may elect to adopt Langan's CHASP as its own if it has given written notification to Langan, but where Langan's CHASP excludes provisions pertinent to the contractor's work (i.e., confined space entry); the contractor must provide written addendums to this CHASP. Additionally, the contractor must:

- Ensure their employees are trained in the use of all appropriate PPE for the tasks involved.
- Notify Langan of any hazardous material brought onto the job site or site-related area, the hazards associated with the material and must provide a safety data sheet (SDS) for the material.
- Have knowledge of, understand, and abide by all current federal, state, and local health and safety regulations pertaining to the work.
- Ensure their employees handling hazardous materials, if identified at the Site, have

received current training in the appropriate levels of 29 CFR 1910.120, *Hazardous Waste Operations and Emergency Response* (HAZWOPER) if hazardous waste is identified at the Site,

- Ensure their employees handling hazardous materials, if identified at the Site, have been fit-tested within the year on the type of respirator they will wear.
- Ensure all air monitoring is in place pertaining to the health and safety of their employees as required by OSHA 1910.120; and
- All contractors must adhere to all federal, state, and local regulatory requirements.

3.0 TASK/OPERATION SAFETY AND HEALTH RISK ANALYSES

A Task-Hazard Analysis (Table 1) was completed for general construction hazards that may be encountered at the Site. The potential contaminants that might be encountered during the field activities and the exposure limits are listed in Table 2. The Safety Data Sheets for each potential contaminant listed in Table 2 is included in Attachment E.

3.1 Specific Task Safety Analysis

3.1.1 Geophysical Survey

Langan personnel are not permitted to operate or otherwise handle the geophysical equipment including GPR/electromagnetic detection equipment used for surface utility clearance contractor. When conducting surface utility clearance surveys, the locations of the borings, test pits, and other excavations must be fully marked out. In addition, possible detections by the utility clearance contractor of utilities and other artifacts must also be marked-out. Markings should include paint, flags, or color tape (when marking indoor locations that the client has specifically requested not be marked with paint). This information must also be added to the site map.

3.1.2 "Soft Dig" Clearance of Borehole Locations

"Soft-Dig" clearance will be completed by the contractors. Langan personnel are not permitted to operate or otherwise handle the contractor's equipment. Langan will update the site map to include the locations of the cleared borehole locations as well as utilities and other artifacts that may interfere with the subsurface investigation.

3.1.3 Daylighting Test Pit

Excavation daylighting must abide by OSHA excavation standards (Part 1926.651) and conform to the Langan Underground Utility Clearance Policy. Daily inspections of excavations, the adjacent areas, and protective systems shall be made by a competent person for evidence of a

situation that could result in cave-ins, indications of failure of protective systems, hazardous atmospheres, or other hazardous conditions. An inspection shall be conducted by the competent person prior to the start of work and as needed throughout the shift. Inspections shall also be made after every rainstorm or other hazard increasing occurrence.

No one is to enter an excavation deeper than 5-feet unless the excavation walls are properly sloped in accordance with OSHA regulations. If sampling is required, the sample for excavations deeper than 5-feet without protective systems (sloping) as defined by OSHA are to be collect using suitable mechanical excavation equipment (backhoe or equivalent). When collecting soil samples, Langan will don chemical resistant gloves in addition to the standard PPE. Langan personnel are not to operate excavation equipment. This task is to be completed by an authorized excavation contractors approved by the contractor.

3.1.4 Indoor Drilling and Excavation

The work scope may require indoor excavation where there may not be adequate ventilation sufficient to safely operate any rig or excavation equipment powered by an internal combustion engine. Where possible, all such work should be done by equipment powered by electricity. If such equipment is used and must be directly wired to the buildings electrical system or to an independent system, this work must be completed by a licensed electrician in accordance with all electrical codes applicable to the work.

Indoor work which is to be completed with equipment powered by an internal combustion engine must incorporate air monitoring for carbon monoxide (CO) using calibrated air monitoring equipment (MultiRAE or equivalent). In addition, the work plan should incorporate mitigation for venting engine exhaust fumes directly to the outdoors and for circulating fresh air into the work area.

The OSHA Time Weighted Average (TWA) Permissible Exposure Limit (PEL) for CO from 50 to 35 parts per million (ppm). Langan will monitor CO with a suitable monitoring device. If CO levels exceed 5 ppm, Langan will instruct contractors to begin mitigation measures. These measures are at a minimum:

- Increase air circulation using industrial size fans to bring additional fresh air into the building or vent exhaust to the outside.
- Modify the passive exhaust method being used to increase venting circulation by using wider diameter tubing or sealing tubing connections; or
- Modify the work schedule where the rig is turned off to allow time for CO levels to fall back to background.

All work must cease if CO levels reach 35 ppm. The Langan engineer is to report to the PM and

H&S officer when an action level is reached.

3.1.5 Geotechnical Soil Boring Investigation

Handling soil requires the donning of chemical resistant gloves in addition to the standard PPE. Handling cores and the core boxes requires the donning of either work gloves or puncture resistant gloves in addition to chemically resistant gloves (nitrile) which can be placed over the work or puncture resistant gloves. Langan personnel are not to operate drilling equipment nor open sampling devices (split spoons, acetate liners, sonic sample bags, etc.). These tasks are to be completed by the drilling contractors.

3.1.6 Geotechnical Test Pit

Excavation geotechnical test pits must abide by OSHA excavation standards (Part 1926.651). Daily inspections of excavations, the adjacent areas, and protective systems shall be made by a competent person for evidence of a situation that could result in cave-ins, indications of failure of protective systems, hazardous atmospheres, or other hazardous conditions. An inspection shall be conducted by the competent person prior to the start of work and as needed throughout the shift. Inspections shall also be made after every rainstorm or other hazard increasing occurrence.

No one is to enter an excavation deeper than 5-feet unless the excavation walls are properly sloped in accordance with OSHA regulations. If sampling is required, the sample for excavations deeper than 5-feet without protective systems (sloping) as defined by OSHA are to be collect using suitable mechanical excavation equipment (backhoe or equivalent). When collecting soil samples, Langan will don chemical resistant gloves in addition to the standard PPE. Langan personnel are not to operate excavation equipment. This task is to be completed by an authorized excavation contractors approved by the contractor.

Excavation and trenching completed under Langan personnel oversight requires:

- a competent person from the entity completing the excavation work be onsite during all active excavation work contractually under Langan control.
- site specific shoring, shielding, and/or sloping procedures are defined and followed.
- no Langan personnel or subcontractors are to enter an excavation unless, sufficient controls and permits are in place, where applicable.
- site personnel are not permitted to work in or around excavations as a 'lone worker'.

Areas to be excavated shall be identified and segregated by means of barricades, ropes and/or

signs to prevent access of unauthorized personnel and equipment. Suitable means shall be provided to make barriers visible at all times. Use warning systems such as mobile equipment, barricades, hand, or other mechanical signals or stop logs to alert equipment operators of the edge of an excavation. An excavation will not be conducted below the level of the base or footing of any foundation, retaining wall, sidewalk and/or pavement unless a support system such as underpinning is provided or another effective method is used, the excavation is stable rock, or a Registered Professional Engineer determines that the structure is sufficiently removed from the excavation, and that the excavation will not pose a hazard to personnel/employees.

3.1.7 Cone Penetration

CPT/SCPT activities and the handling soil impacted tools requires the donning of chemical resistant gloves in addition to the standard PPE. Handling associated surface support equipment requires the donning of either work gloves or puncture resistant gloves in addition to chemically resistant gloves (nitrile) which can be placed over the work or puncture resistant gloves. Langan personnel are not to handle or operate CPT/SCPT equipment. These tasks are to be completed by the CPT/SCTP contractors.

3.1.8 Removal of Underground Storage Tank

If UST excavation and removal activity is initiated, Langan personnel will conduct air monitoring for lower explosion limit (LEL) conditions within the UST excavation itself. This task is to be performed using calibrated air monitoring equipment designed to sound an audible alarm when atmospheric concentrations of VOCs are within 10% of the LEL. In normal atmospheric oxygen concentrations, the LEL monitoring may be done with a Wheatstone bridge/catalytic bead type sensor (i.e., MultiRAE). However, in oxygen depleted atmospheres (confined space), only an LEL designed to work in low oxygen environments may be used. Best practices require that the LEL monitoring unit be equipped with a long sniffer tube to allow the LEL unit to remain outside the UST excavation. Langan personnel are not to enter the UST excavation nor enter an excavated UST.

In addition to monitoring LEL, Langan personnel will monitor atmospheric VOC concentrations directly downwind of the UST excavation in accordance with standard CAMP procedures using calibrated air monitoring equipment.

3.1.9 Excavation and Soil Screening

Langan personnel will observe excavation and SOE activities including the general oversight, observation of landscaping activities, and other select observation project management and supervision as specified in the work plan or in accordance with the construction documents, or

special inspection requirements administered by local building authorities. Materials used for construction may be inspected by Langan personnel for conformance to the design documents. Prior to entering excavation, Langan personnel will ensure that excavation shoring conforms to proper shoring/benching/sloping techniques, at a minimum that soil and equipment is kept at least 2 feet from the edge of the excavation, that there is no water in the excavation, and that a competent person has inspected excavation prior to allow persons to enter. When entering excavation via a ladder, Langan personnel will only use ladders that are properly situated in accordance with the Ladder section of the CHASP.

3.1.10 Soil Sampling

Sampling the soil requires the donning of chemical resistant gloves in addition to the standard PPE. Langan personnel are not to operate drilling or excavation equipment nor open sampling devices (acetate liners, sonic sample bags, etc.). These tasks are to be completed by the driller or excavation contractor.

3.1.11 Stockpile Sampling

The Langan personnel are not to scale or climb stockpiles. If the soil sampling plan requires sampling from the stockpile above ground level, samples are to be obtained using suitable excavation equipment operated by the contractor (i.e., front end loader).

3.1.12 Backfilling of Excavated Areas to Development Grade

The backfilling contractor will provide their employees with equivalent PPE to protect them from the specific hazards likely to be encountered on-site. Selection of the appropriate PPE must take into consideration: (1) identification of the hazards or suspected hazards; (2) potential exposure routes; and (3) the performance of the PPE construction (materials and seams) in providing a barrier to these hazards. Langan personnel may survey backfilling material with a calibrated PID; however, as they are not permitted to climb the material delivery truck, the contractor must provide samples from each truck as required.

3.1.13 Construction Dewatering

If required, Langan may sample dewatering treatment system liquids from either the direct discharge standpipe or from a sample port or valve built into the storage tank, Langan will don the necessary PPE including nitrile gloves and if necessary, facial splash guard. Sample ports and valves may only be sampled if they are accessible at ground level. Sampling from heights over 6 feet is prohibited unless Langan field personnel are fully accredited in fall protection and is wearing approved fall protection safety apparatus. The discharge samples will be submitted to an ELAP-certified laboratory for analysis in accordance with the work plan.

3.1.14 Storm Water Pollution Prevention Inspection

When performing SWPPP inspections, Langan personnel will don all required PPE and maintain awareness to site traffic and site activities. If using a cell phone or tablet application to record the pertinent data, the engineer will do so in an area protected from site traffic and activities. Certain types of inspections may require additional PPE and safety training including fall protection and open water hazards.

remedial equipment nor assist in the application or surface mixing of the reagent. These tasks are to be completed by the remedial contractor.

3.1.15 Plugging and Abandonment of Observation/Monitoring Wells

Langan personnel are not to operate equipment nor assist in the plugging and abandonment of the observation/monitoring wells. These tasks are to be completed by the contractor.

3.1.16 Drum Sampling

Drilling fluid, rinse water, grossly contaminated soil samples, and cuttings will be containerized in 55-gallon drums for disposal off-site. Each drum must be labeled in accordance with the Langan Drum Labeling Standard Operating Procedure (SOP09). Sampling drums requires the donning of work gloves when opening the drums and chemical resistant gloves when sampling in addition to standard PPE.

3.2 Radiation Hazards

No radiation hazards are known or expected at the site.

3.3 Physical Hazards

Physical hazards, which may be encountered during site operations for this project, are detailed in Table 1.

3.3.1 Explosion

No explosion hazards are expected for the scope of work at this site.

3.3.2 Heat Stress

The use of Level C protective equipment, or greater, may create heat stress. Monitoring of personnel wearing personal protective clothing should commence when the ambient temperature is 72°F or above. Table 6 presents the suggested frequency for such monitoring.

Monitoring frequency should increase as ambient temperature increases or as slow recovery rates are observed. Refer to Table 7 to assist in assessing when the risk for heat-related illness is likely. To use this table, the ambient temperature and relative humidity must be obtained (a regional weather report should suffice). Heat stress monitoring should be performed by the HSO or the FTL, who must be able to recognize symptoms related to heat stress.

To monitor the workers, be familiar with the following heat-related disorders and their symptoms:

- **Heat Cramps:** Painful spasms of arm, leg, or abdominal muscles, during or after work
- **Heat Exhaustion:** Headache, nausea, dizziness; cool, clammy, moist skin; heavy sweating; weak, fast pulse; shallow respiration, normal temperature
- **Heat Stroke**: Headache, nausea, weakness, hot dry skin, fever, rapid strong pulse, rapid deep respirations, loss of consciousness, convulsions, coma. *This is a life-threatening condition***.**

Do not permit a worker to wear a semi-permeable or impermeable garment when they are showing signs or symptoms of heat-related illness.

To monitor the worker, measure:

- **Heart rate:** Count the radial pulse during a 30-second period as early as possible in the rest period. If the heart rate exceeds 100 beats per minute at the beginning of the rest period, shorten the next work cycle by one-third and keep the rest period the same. If the heart rate still exceeds 100 beats per minute at the next rest period, shorten the following work cycle by one-third. A worker cannot return to work after a rest period until their heart rate is below 100 beats per minute.
- **Oral temperature:** Use a clinical thermometer (3 minutes under the tongue) or a similar device to measure the oral temperature at the end of the work period (before drinking). If oral temperature exceeds 99.6°F (37.6°C), shorten the next work cycle by one-third without changing the rest period. A worker cannot return to work after a rest period until their oral temperature is below 99.6°F. If oral temperature still exceeds 99.6°F (37.6°C) at the beginning of the next rest period, shorten the following cycle by one-third. Do not permit a worker to wear a semi-permeable or impermeable garment when oral temperature exceeds 100.6°F (38.1°C).

Prevention of Heat Stress - Proper training and preventative measures will aid in averting loss of worker productivity and serious illness. Heat stress prevention is particularly important because once a person suffers from heat stroke or heat exhaustion, that person may be predisposed to additional heat-related illnesses. To avoid heat-stress the following steps should be taken:

- Adjust work schedules.
- Mandate work slowdowns as needed.
- Perform work during cooler hours of the day if possible or at night if adequate lighting can be provided.
- Provide shelter (air-conditioned, if possible) or shaded areas to protect personnel during rest periods.
- Maintain worker's body fluids at normal levels. This is necessary to ensure that the cardiovascular system functions adequately. Daily fluid intake must equal the amount of water lost in sweat, i.e., eight fluid ounces (0.23 liters) of water must be ingested for every eight ounces (0.23 kilograms [kg]) of weight lost. The normal thirst mechanism is not sensitive enough to ensure that enough water will be drunk to replace lost sweat. When heavy sweating occurs, encourage the worker to drink more. The following strategies may be useful:
    - Maintain water temperature 50° to 60°F (10° to 16.6°C).
    - Provide small disposal cups that hold about four ounces (0.1 liters).
    - Have workers drink 16 ounces (0.5 liters) of fluid (preferably water or dilute drinks) before beginning work.
    - Urge workers to drink a cup or two every 15 to 20 minutes, or at each monitoring break. A total of 1 to 1.6 gallons (4 to 6 liters) of fluid per day are recommended, but more may be necessary to maintain body weight.
    - Train workers to recognize the symptoms of heat-related illness.

3.3.3 Cold-Related Illness

If work on this project begins in the winter months, thermal injury due to cold exposure can become a problem for field personnel. Systemic cold exposure is referred to as hypothermia. Local cold exposure is called frostbite.

- **Hypothermia -** Hypothermia is defined as a decrease in the patient core temperature below 96°F. The body temperature is normally maintained by a combination of central (brain and spinal cord) and peripheral (skin and muscle) activity. Interference with any of these mechanisms can result in hypothermia, even in the absence of what normally is considered a "cold" ambient temperature. Symptoms of hypothermia include shivering, apathy, listlessness, sleepiness, and unconsciousness.
- **Frostbite -** Frostbite is both a general and medical term given to areas of local cold injury. Unlike systemic hypothermia, frostbite rarely occurs unless the ambient temperatures are less than freezing and usually less than 20°F. Symptoms of frostbite are a sudden blanching or whitening of the skin; the skin has a waxy or white appearance and is firm to the touch; tissues are cold, pale, and solid.

Prevention of Cold-Related Illness - To prevent cold-related illness:

- Educate workers to recognize the symptoms of frostbite and hypothermia.
- Identify and limit known risk factors:
- Assure the availability of an enclosed, heated environment on or adjacent to the site.
- Assure the availability of dry changes of clothing.
- Assure the availability of warm drinks.
- Start (oral) temperature recording at the job site:
- At the FSO or Field Team Leader's discretion when suspicion is based on changes in a worker's performance or mental status.
- At a worker's request.
- As a screening measure, two times per shift, under unusually hazardous conditions (e.g., wind-chill less than 20°F, or wind-chill less than 30°F with precipitation).
- As a screening measure whenever anyone worker on the site develops hypothermia.

Any person developing moderate hypothermia (a core temperature of 92°F) cannot return to work for 48 hours.

3.3.4 Noise

Work during the proposed activities may be conducted at locations with high noise levels from the operation of equipment. Hearing protection will be used, as necessary.

3.3.5 Hand and Power Tools

The use of hand and power tools can present a variety of hazards, including physical harm from being struck by flying objects, being cut, or struck by the tool, fire, and electrocution. All hand and power tools should be inspected for health and safety hazards prior to use. If deemed unserviceable/un-operable, notify the supervisor and tag and remove equipment out of service. Ground Fault Circuit Interrupters (GFCIs) are required for all power tools requiring direct electrical service.

3.3.6 Slips, Trips, and Fall Hazards

Care should be exercised when walking at the site, especially when carrying equipment. The presence of surface debris, uneven surfaces, pits, facility equipment, and soil piles contribute to tripping hazards and fall hazards. To the extent possible, all hazards should be identified and marked on the site, with hazards communicated to all workers in the area.

3.3.7 Utilities (Electrocution and Fire Hazards)

3.3.7.1 Utility Clearance

The possibility of encountering underground utilities poses fire, explosion, and electrocution hazards. All excavation work will be preceded by a review of available utility drawings and by notification of the subsurface work to N.Y. One –Call--Center.

3.3.7.2 Lockout-Tagout

The potential adverse effects of electrical hazards include burns, arc flashes, and electrocution, which could result in serious injury including death. Therefore, there is a procedure that establishes the requirements for the lockout/tag out (LOTO) of energy isolating devices in accordance with the OSHA electrical lockout and tagging requirements as specified in 29CFR1910.147 and 29 CFR 1926.417. This procedure will be used to ensure that all machines and equipment are isolated from potentially hazardous energy. If possible, equipment that could cause injury due to unexpected energizing, start-up, or release of stored energy will be locked/tagged, before field personnel performs work activities.

The facility owner/operator/representative is to be the authorized person that will initiate and perform the LOTO in accordance with applicable rules and practices. Inerting of electrical power sources is to be completed by an authorized and licensed electrician. Langan personnel will follow LOTO protocols and practices including adding a separate lock/signature to the LOTO chain in accordance with said protocols and practices.

SPECIAL NOTE: Project personnel will assume that all electrical equipment at the surface, subsurface, and overhead locations are energized until equipment has been designated and confirmed as de-energized by a utility company representative. Langan will notify the designated utility representative prior to working adjacent to this equipment and will verify that the equipment is energized or de-energized in the vicinity of the work location. No project work shall be performed by Langan personnel or subcontractors near energized electrical lines or equipment.

The FTL shall accompany the designated facility owner/operator/representative or authorized/licensed electrician in surveying to locate and identify all energy-isolating devices. Langan will note which switches, valves or other isolating devices are used for inerting the equipment and how they are set assuring LOTO. The lockout/tagout procedure involves, but is not limited to, electricity, motors, steam, natural gas, compressed air, hydraulic systems, digesters, sewers, etc.

3.3.8 Adequate Lighting

Indoor or night activities must be done under adequate lighting conditions. The Langan field engineer must be able to clearly see the equipment, all controls and have sufficient lighting to detail color labels. Battery operated lights are sufficient provided they cast a wide enough field to provide the required lighting and there are back-up batteries and emergency flashlights available. Electrically powered lights are suitable provided the electrical source is equipped with a ground fault interrupt circuit (GFIC) and the extensions cords are visually inspected prior to each use, and not used if they show cracked, damaged, or missing insulation. If a generator is supplying the electricity, it must be located outdoors and properly grounded and vented.

3.3.9 Physical Hazard Considerations for Material Handling

There are moderate to severe risks associated with moving heavy objects at the Site. The best method of reducing back injuries is to reduce or eliminate manual lifting. Mechanical lifting devices should be used whenever possible.

- Size up the load before attempting to lift it. Heavy objects will be lifted and moved by mechanical devices rather than manual effort whenever possible. Never overexert when lifting.
    - When using a mechanical device, the devices should be appropriate for the lifting of moving tasks and operated only by trained and authorized personnel.
    - Objects that require special handling or rigging will only be moved under the guidance of a person who has been specifically trained to move such objects.
    - Lifting devices will be inspected, certified, and labeled to confirm their weight capacities. Defective equipment will be taken out of service immediately and repaired or destroyed.
    - The wheels of any trucks being loaded or unloaded will be choked to prevent movement. Outriggers will be fully extended on a flat, firm surface during operation.
    - Personnel will not pass under a raised load, nor will a suspended load be left unattended.
    - Personnel will not be carried on lifting equipment unless it is specifically designed to carry passengers.
    - All reciprocating, rotating, or other moving parts will be guarded at all times.
    - Accessible fire extinguishers, currently (monthly) inspected, will be available in all mechanical lifting devices.
    - Verify all loads/materials are secure before transportation
- If manual lifting cannot be avoided the following lifting procedures are recommended.
    - If the load is thought to be more than one person can handle, get another person to help with the job.
    - Make sure you can carry the load where you need to go before attempting to lift

it. Make sure your path is clear of equipment, materials, debris, holes, etc.
- Place your feet close to the object, spread about 12 inches apart.
- Bend your knees and get a good hand hold.
- Lift straight up smoothly, allowing your legs not your back to do the work.
- Keep the load close to the body with your elbows and arms tucked in.
- Do not twist or turn your body once you have made the lift.
- Set the load down properly:
  - Lower the load slowly by bending at your knees, letting your legs do most of the work.
  - Don't let go of the load until it's secure on the surface.

Material handling tasks that are unusual or require specific guidance will need a written addendum to this CHASP. The addendum must identify the lifting protocols before the tasks are performed. Upon approval, the plan must be reviewed with all affected employees and documented. Any deviation from a written plan will require approval by the Langan HSM.

3.3.10 Hearing Conservation

Under the construction industry standard, the maximum permissible occupational noise exposure is 90 A-weighted decibels (dbA) (8-hour TWA), and noise levels in excess of 90 dbA must be reduced through feasible administrative and engineering controls (20 CFR 1926.52). Hearing protection is required when working within 15 feet of vacuum extraction equipment and drill rigs.

3.3.11 Open Water

Employees working over or near water, where the danger of drowning exists, must be provided with U.S. Coast Guard-approved life jackets or buoyant work vests. Prior to and after each use, the buoyant work vests or life preservers must be inspected for defects that would alter their strength or buoyancy. Defective units must not be used.

And should a worker fall into the water, OSHA requires (29 CFR 1926.106(c)) that ring buoys with at least 90 feet of the line must be provided and readily available for emergency rescue operations. The distance between ring buoys must not exceed 200 feet. Another remedial action required by OSHA (29 CFR 1926.106(d)) is the use of lifesaving skiffs.

OSHA requires that at least one lifesaving skiff must be immediately available at locations where employees are working over or adjacent to water and must include the following provisions.

- The skiff must be in the water or capable of being quickly launched by one person.
- At least one person must be present and specifically designated to respond to water emergencies and operate the skiff at all times when there are employees above water.
- When the operator is on break another operator must be designated to provide requisite coverage when there are employees above water.

- The designated operator must either have the skiff staffed at all times or have someone remain in the immediate area such that the operator can quickly reach the skiff and perform rescue services.
- The skiff operator may be assigned other tasks provided the tasks do not interfere with the operator's ability to quickly reach the skiff.
- A communication system, such as a walkie-talkie, must be used to inform the skiff operator of an emergency and to inform the skiff operator where the skiff is needed.
- The skiff must be equipped with both a motor and oars.

Regarding the number of skiffs required and the appropriate maximum response time, the following factors must be evaluated:

- The number of work locations where there is a danger of falling into water.
- The distance to each of those locations.
- Water temperature and currents.
- Other hazards such as, but not limited to, rapids, dams, and water intakes.

Other regulations that present H&S practices and PPE for work on or near water include: 29 CFR 1910, Subpart T (401 – 440)

3.4 Biological Hazards

3.4.1 Animals

There is a possibility of encountering wildlife including reptiles, rodents, and other small and medium-size mammals. Langan personnel are to avoid interacting with any wildlife.

3.4.2 Insects

Ticks and other biting or stinging insects may be encountered during site operations. Langan personnel should take necessary precautions including donning long sleeve shirts and insecticide to prevent bites and stings. After fieldwork, Langan personnel should perform a complete visual inspection of their clothing to insure they are not inadvertently harboring ticks. If they do observe a tick bite, they are to contact the HSM or HSO and report the event.

3.4.3 Plants

Poisonous plants may be encountered during site operations. Langan personnel should take necessary precautions including donning long sleeve shirts and applying preventative poison Ivy/Sumac lotion to prevent or limit the effects of exposure. If after fieldwork, Langan employees

do observe a reaction to poisonous plant exposure, they are to contact the HSM or HSO and report the event.

3.4.4 Mold

This section is restricted to subsurface investigations where sampling soil, groundwater, soil or sub-slab vapor or ambient air in an indoor environment with slight to moderate mold impact. Mold exposure symptoms include nasal stuffiness, eye irritation, or wheezing.

The Langan field engineer is required to don a ½ face respirator with a minimum p-100 particulate filter and Tyvek™ type overclothing before entering mold impacted indoor work area. The Langan field engineer must be medically cleared and have been properly fitted for a respirator before donning one.

3.5 Additional Safety Analysis

3.5.1 Presence of Non-Aqueous Phase Liquids (NAPL)

Special care and PPE should be considered when NAPL is observed as NAPL is a typically flammable fluid and releases VOCs known to be toxic and/or carcinogenic. If NAPL is present in a monitoring well, vapors from the well casing may contaminate the work area breathing zone with concentrations of VOCs potentially exceeding health and safety action levels. In addition, all equipment used to monitor or sample NAPL (or ground water from wells containing NAPL) must be intrinsically safe. Equipment that directly contacts NAPL must also be resistant to organic solvents.

At a minimum, a PID should be used to monitor for VOCs when NAPL is observed. If NAPL is expected to be observed in an excavation or enclosed area, air monitoring must be started using calibrated air monitoring equipment designed to sound an audio alarm when atmospheric concentrations of VOC are within 10% of the LEL. In normal atmospheric oxygen concentrations, the LEL monitoring may be done with a Wheatstone bridge/catalytic bead type sensor (i.e., MultiRAE). However, in oxygen-depleted atmospheres (confined space), only an LEL designed to work in low-oxygen environments may be used. Best practices require that the LEL monitoring unit be equipped with a long sniffer tube to allow the LEL unit to remain outside the UST excavation.

When NAPL is present, Langan personnel are required to use disposable nitrile gloves at all times to prevent skin contact with contaminated materials. They should also consider having available a respirator and protective clothing (Tyvek® overalls), especially if NAPL is in abundance and there are high concentrations of VOCs.

All contaminated disposables including PPE and sampling equipment must be properly disposed of in labeled 55-gallon drums.

3.6 Job Safety Analysis

A Job Safety Analysis (JSA) is a process to identify existing and potential hazards associated with each job or task so these hazards can be eliminated, controlled, or minimized. A JSA will be performed at the beginning of each workday, and additionally whenever an employee begins a new task or moves to a new location. All JSAs must be developed and reviewed by all parties involved. A blank JSA form and documentation of completed JSAs are in Attachment G.

4.0 PERSONNEL TRAINING

4.1 Basic Training

Completion of an initial 40-hour HAZWOPER training program as detailed in OSHA's 29 CFR 1910.120(e) is required for all employees working on a site engaged in hazardous substance removal or other activities which expose or potentially expose workers to hazardous substances, health hazards, or safety hazards as defined by 29 CFR 1910.120(a). Annual 8-hour refresher training is also required to maintain competencies to ensure a safe work environment. In addition to these training requirements, all employees must complete the OSHA 10-hour Construction Safety and Health training, and supervisory personnel must also receive eight additional hours of specialized management training. Training records are maintained by the HSM.

4.2 Initial Site-Specific Training

Training will be provided to specifically address the activities, procedures, monitoring, and equipment for site operations at the beginning of each field mobilization and the beginning of each discrete phase of work. The training will include the site and facility layout, hazards, and emergency services at the site, and will detail all the provisions contained within this CHASP. For a HAZWOPER operation, training on the site must be for a minimum of 3 days. Specific issues that will be addressed include the hazards described in Section 3.0.

4.3 Tailgate Safety Briefings

Before starting work each day or as needed, the Langan HSO will conduct a brief tailgate safety meeting to assist site personnel in conducting their activities safely. Tailgate meetings will be documented in Attachment H. Briefings will include at a minimum the following:

- Work plan for the day.
- Review of safety information relevant to planned tasks and environmental conditions.

- New activities/tasks being conducted.
- Driving conditions/hazards/designated parking areas.
- Results of Jobsite Safety Inspection Checklist.
- Changes in work practices.
- Safe work practices; and
- Discussion and remedies for noted or observed deficiencies.

5.0 MEDICAL SURVEILLANCE

All personnel who will be performing fieldwork involving potential exposure to toxic and hazardous substances (defined by 29 CFR 1910.120(a)) will be required to have passed an initial baseline medical examination, with follow-up medical exams thereafter, consistent with 29 CFR 1910.120(f). Medical evaluations will be performed by, or under the direction of, a physician board-certified in occupational medicine.

Additionally, personnel who may be required to perform work while wearing a respirator must receive medical clearance as required under CFR 1910.134(e), *Respiratory Protection*. Medical evaluations will be performed by, or under the direction of, a physician board-certified in occupational medicine. Results of medical evaluations are maintained by the HSM.

5.1 Mercury Monitoring

Langan includes medical monitoring for mercury during the initial baseline and annual physical.

5.2 Coronavirus

General Preventative Measures

Field personnel must follow general proper hygiene measures while in the field including:

- Avoid touching eyes, nose, and mouth.
- Cover coughs or sneezes with tissue and throw in the trash.
- Wash hands often with soap and water for 20 seconds after going to the bathroom, before eating, after blowing nose, coughing, or sneezing.
- Use hand sanitizer with at least 60% alcohol if soap and water are not available.
- Avoid physical contact with other people (e.g., no handshakes).
- Maintain a safe distance of at least six feet from other people (social distancing).
- Wear face coverings when around other workers to minimize the spread of COVID-19. (May be required in certain states or locations.)

Construction Trailers

Employees should avoid the use of shared construction trailers or where employees cannot maintain a safe distance (minimum 6 feet) from other workers. If trailer use is needed, areas such as desks, phones, chairs, and other common areas, should be cleaned and disinfected before and after use. Protocols should be developed to minimize trailer use to essential personnel, restrict use from any workers who are ill or showing symptoms of being ill, use face coverings and ensure a safe distance of six feet can be established between workers.

Communication

Include Coronavirus topics and prevention topics in daily tailgate meetings to ensure Coronavirus awareness is communicated daily. Discussions can focus on general topics including social distancing, prevention measures for field personnel, signs and symptoms, and recent news on the Coronavirus. Site-specific topics should include minimizing face-to-face contact, disinfecting/sterilizing field equipment, use of PPE to reduce exposure, site security, use of face coverings, and other potential exposure issues/concerns.

Sick/Ill Workers

No Langan employee is permitted to be onsite when ill and/or showing potential symptoms of the Coronavirus. Symptoms of the Coronavirus may appear 2-14 days after exposure and can range from mild to severe. The most common symptoms include fever, fatigue, dry cough, shortness of breath chills, repeated shaking with chills, muscle pain, headache, sore throat, or new loss of taste or smell. If an employee or subcontractor is observed being ill or exhibiting symptoms of Coronavirus, employees must immediately utilize their Stop Work Authority and contact their project manager to address the situation. If an employee observes another worker onsite exhibiting symptoms of Coronavirus, immediately utilize Stop Work Authority, notify their project manager, and site construction manager or safety officer. Work should resume when the safety and health of Langan and subcontractors is adequately addressed.

6.0 PERSONAL PROTECTIVE EQUIPMENT

6.1 Levels of Protection

Langan will provide PPE to Langan employees to protect them from the specific hazards they are likely to encounter on-site. Directly hired contractors will provide their employees with equivalent PPE to protect them from the specific hazards likely to be encountered on-site. Selection of the appropriate PPE must take into consideration: (1) identification of the hazards or suspected

hazards; (2) potential exposure routes; and (3) the performance of the PPE construction (materials and seams) in providing a barrier to these hazards.

Human exposure to contaminants found in the subsurface can occur through three primary routes:

- Inhalation of gases, vapors, dust, or mists is a common route of exposure. Chemicals can enter and irritate the airways and the lungs. They can become deposited in the airways or can be absorbed through the lungs into the bloodstream.
- Direct contact of contaminants with the skin or eyes is a common route of exposure. Some substances are absorbed through the skin and can enter the bloodstream. Broken, cut, or cracked skin will allow substances to enter the body more easily.
- Ingestion or swallowing of food, drink, or other substances is the third route of exposure. Chemicals that get in or on food, utensils, or hands can be ingested. Substances can be absorbed into the blood.

Based on anticipated site conditions and the proposed work activities to be performed at the site, Level D protection will be used. The upgrading/downgrading of the level of protection will be based on continuous air monitoring results as described in Section 6.0 (when applicable). The decision to modify standard PPE will be made by the site HSO or FTL after conferring with the PM. The levels of protection are described below.

Level D Protection (as needed)

- Safety glasses with side shields or chemical splash goggles
- Safety boots/shoes
- Coveralls (Tyvek® or equivalent)
- Hard hat
- Long sleeve work shirt and work pants
- Nitrile gloves
- Hearing protection
- Reflective safety vest

Level D Protection (Modified, as needed)

- Safety glasses with side shields or chemical splash goggles
- Safety boots/shoes (toe-protected)
- Disposable chemical-resistant boot covers.
- Coveralls (poly-coated Tyvek or equivalent to be worn when contact with wet contaminated soil, groundwater, or non-aqueous phase liquids is anticipated)

- Hard hat
- Long sleeve work shirt and work pants
- Nitrile gloves
- Hearing protection (as needed)
- Personal floatation device (for work within 5 ft of the water)
- Reflective traffic vest

Level C Protection (as needed)

- Full or Half face, air-purifying respirator, with NIOSH approved High-Efficiency Particulate Air (HEPA) filter.
- Inner (latex) and outer (nitrile) chemical-resistant gloves
- Safety glasses with side shields or chemical splash goggles
- Chemical-resistant safety boots/shoes
- Hard hat
- Long sleeve work shirt and work pants
- Coveralls (Tyvek® or equivalent)
- Hearing protection (as needed)
- Reflective safety vest

The action levels used in determining the necessary levels of respiratory protection and upgrading to Level C are summarized in Table 4. The written Respiratory Protection Program is maintained by the HSM and is available if needed. The monitoring procedures and equipment are outlined in Section 6.0 (when applicable).

6.2 Respirator Fit-Test

All Langan employees who may be exposed to hazardous substances at the work site must be in possession of a full or half face piece air-purifying respirator and have been successfully fit-tested within the past year. Fit-test records are maintained by the HSM.

6.3 Respirator Cartridge Change-Out Schedule

Respiratory protection is required to be worn when certain action levels (Table 2) are reached. A respirator cartridge change-out schedule has been developed to comply with 29 CFR 1910.134. The respirator cartridge change-out schedule for this project is as follows:

- Cartridges must be removed and disposed of at the end of each shift when cartridges become wet or the wearer experiences a breakthrough, whichever occurs first.
- If the humidity exceeds 85%, then cartridges must be removed and disposed of after 4 hours of use.

Respirators must not be stored at the end of the shift with contaminated cartridges left on. Cartridges must not be worn on the second day, no matter how short the time period was the previous day they were used.

7.0 AIR QUALITY MONITORING AND ACTIONS LEVELS

7.1 Monitoring During Site Operations

Atmospheric air monitoring results may be collected and used to provide data to determine when exclusion zones need to be established and when certain levels of personal protective equipment are required. For all instruments, there are Site-specific action-level criteria that are used in making field health and safety determinations. Other data, such as the visible presence of contamination or the steady state nature of air contaminant concentration, are also used in making field health and safety decisions. Therefore, the HSO may establish an exclusion zone or require a person to wear a respirator even though atmospheric air contaminant concentrations are below established CHASP action levels.

During site work involving disturbance of petroleum-impacted or fill material, real-time air monitoring may be conducted for methane and VOCs. A MultiRAE LEL/Oxygen (O_2) meter and FID will be used to monitor the LEL of methane, and a PID and/or FID will be used to monitor concentrations of VOCs at personnel breathing-zone height. Air monitoring will be the responsibility of the HSO or designee. Air monitoring may be conducted during intrusive activities associated with the completion of excavation, debris removal, and soil grading. All manufacturers' instructions for instrumentation and calibration will be available onsite.

Subcontractors' air monitoring plans must be equal to or more stringent than the Langan plan.

An air monitoring calibration log is provided in Attachment D of this CHASP.

7.1.1 Volatile Organic Compounds

Monitoring with a PID, such as a MiniRAE 2000 (10.6v) or equivalent may occur during intrusive work in the Areas of Concern (AOCs). Colorimetric Indicator Tubes for benzene may be used as a backup for the PID if measurements remain above background monitor every 2 hours. The HSO will monitor the employee's breathing zone <u>at least</u> every 30 minutes, or whenever there is any indication that concentrations may have changed (odors, visible gases, etc.) since the last measurement. If VOC levels are observed above 5 ppm for longer than 5 minutes or if the site PPE is upgraded to Level C, the HSO will begin monitoring the site perimeter at a location downwind of the AOC every 30 minutes in addition to the employee breathing zone. Instrument action levels for monitored gases are provided in Table 4.

7.1.2 Metals

Based upon the site historic fill, there is a potential for the soils to contain Polycyclic Aromatic Hydrocarbons (PAHs) and metals. During invasive procedures which have the potential for creating airborne dust, such as excavation of dry soils, a real-time airborne dust monitor such as a Mini-Ram may be used to monitor for air particulates. The HSO will monitor the employee's breathing zone at least every 30 minutes, or whenever there is any indication that concentrations may have changed (appearance of visible dust) since the last measurement. If dust levels are observed to be greater than 0.100 milligrams per cubic meter (mg/m^3) or visible dust is observed for longer than 15 minutes or if the site PPE is upgraded to Level C, the HSO will begin monitoring the site perimeter at a location downwind of the AOC every 30 minutes in addition to the employee breathing zone. Instrument action levels for dust monitoring are provided in Table 4.

7.1.3 Methane

During soil excavation or other intrusive activities, direct reading air monitoring may be performed in the excavation area to determine exposure to workers. Monitoring with an LEL/O_2 meter and FID may occur during intrusive work in the AOCs. The HSO will monitor the employee's breathing zone at least hourly during intrusive activities. If LEL levels are observed above 20% the professional engineer (PE) or their designee will stop work and evacuate the area; warn others; and determine source of readings and take corrective actions. The Contractor will be responsible for mitigating explosive gas levels.

7.2 Monitoring Equipment Calibration and Maintenance

Instrument calibration must be documented and included in a dedicated safety and health logbook or on separate calibration pages of the field book. All instruments must be calibrated before and after each shift. Calibration checks may be used during the day to confirm instrument accuracy. Duplicate readings may be taken to confirm individual instrument responses.

All instruments must be operated in accordance with the manufacturers' specifications. Manufacturers' literature, including an operation manual for each piece of monitoring equipment, will be maintained on-site by the HSO for reference.

7.3 Determination of Background Levels

Background (BKD) levels for VOCs, dust and methane will be established prior to intrusive activities within the AOC at an upwind location. A notation of BKD levels will be referenced in the daily monitoring log. BKD levels are a function of prevailing conditions. BKD levels will be taken in an appropriate upwind location as determined by the HSO.

Table 4 lists the instrument action levels.

8.0 COMMUNITY AIR MONITORING PROGRAM

Community air monitoring may be conducted in compliance with local standards. If conducted, Langan will implement the generic CAMP outlined below amended to comply with local conditions or standards:

Monitoring for dust and odors will be conducted during all ground intrusive activities by the FTL. Continuous monitoring of the perimeter of the work zones for odor, VOCs, and dust may be required for all ground intrusive activities such as soil excavation and handling activities. The work zone is defined as the general area in which machinery is operating in support of remediation activities. A portable PID will be used to monitor the work zone and for periodic monitoring for VOCs during activities such as soil and groundwater sampling and soil excavation. The site perimeter will be monitored for fugitive dust emissions by visual observations as well as instrumentation measurements (if required). When required, particulate or dust will be monitored continuously with real-time field instrumentation that will meet, at a minimum, the local standards or, default to the performance standards below:

If VOC monitoring is required, the following actions will be taken based on VOC levels measured:

- If total VOC levels exceed 5 ppm above background for the 15-minute average at the perimeter, work activities will be temporarily halted and monitoring continued. If levels readily decrease (per instantaneous readings) below 5 ppm above background, work activities will resume with continued monitoring.
- If total VOC levels at the downwind perimeter of the hot zone persist at levels in excess of 5 ppm above background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps work activities will resume provided that the total organic vapor level is 200 feet downwind of the hot zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less – but in no case less than 20 feet, is below 5 ppm above background for the 15-minute average.
- If the total VOC level is above 25 ppm at the perimeter of the hot zone, activities will be shut down.

If dust monitoring with field instrumentation is required, the following actions will be taken based on instrumentation measurements:

- If the downwind particulate level is 100 micrograms per cubic meter ($\mu g/m^3$) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression must be employed. Work may continue with dust suppression techniques provided that downwind particulate matter less than

10 microns (PM10) levels do not exceed 150 µg/m³ above the background level and provided that no visible dust is migrating from the work area.

- If, after implementation of dust suppression techniques, downwind PM10 levels are greater than 150 µg/m³ above the background level, work must be stopped, and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM10 concentration to within 150 µg/m³ of the upwind level and in preventing visible dust migration.

8.1 Dust Suppression Techniques

Preventative measures for dust generation may include wetting site fill and soil, construction of an engineered construction entrance with a gravel pad, a truck wash area, covering soils with tarps, and limiting vehicle speeds to five miles per hour.

Work practices to minimize odors and vapors include limiting the time that the excavations remain open, minimizing stockpiling of contaminated-source soil, and minimizing the handling of contaminated material. Offending odor and organic vapor controls may include the application of foam suppressants or tarps over the odor or VOC source areas. Foam suppressants may include biodegradable foams applied over the source material for short-term control of the odor and VOCs.

If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include direct load-out of soils to trucks for off-site disposal; use of chemical odorants in spray or misting systems; and use of staff to monitor odors in surrounding neighborhoods.

Where odor nuisances have developed during remedial work and cannot be corrected, or where the release of nuisance odors cannot otherwise be avoided due to on-site conditions or proximity to sensitive receptors, odor control will be achieved by sheltering excavation and handling areas under tented containment structures equipped with appropriate air venting/filtering systems.

9.0 WORK ZONES AND DECONTAMINATION

9.1 Site Control

Work zones are intended to control the potential spread of contamination throughout the site and to assure that only authorized individuals are permitted into potentially hazardous areas. Specific zones will be established on the work site by the Contractor when operations begin for each task requiring such delineation. Maps depicting the zones will be available at the Site.

Any person working in an area where the potential for exposure to site contaminants exists will only be allowed access after providing the HSO with proper training and medical documentation.

Exclusion Zone (EZ) - All activities which may involve exposure to site contaminants, hazardous materials, and/or conditions should be considered an EZ. Decontamination of field equipment will also be conducted in the Contaminant Reduction Zone (CRZ) which will be located on the perimeter of the EZ. The EZ and the CRZ will be delineated by cones, tapes, or other means. The HSO may establish more than one EZ where different levels of protection may be employed, or different hazards exist. The size of the EZ must be determined by the HSO allowing adequate space for the activity to be completed, field members, and emergency equipment.

9.2 Contamination Zone

9.2.1 Personnel Decontamination Station

Personal hygiene, coupled with diligent decontamination, will significantly reduce the potential for exposure.

9.2.2 Minimization of Contact with Contaminants

During the completion of all site activities, personnel should attempt to minimize the chance of contact with contaminated materials. This involves a conscientious effort to keep "clean" during site activities. All personnel should minimize kneeling, splash generation, and another physical contact with contamination as PPE is intended to minimize accidental contact. This may minimize the degree of decontamination required and the generation of waste materials from site operations.

Field procedures will be developed to control spray and runoff and to ensure that unprotected personnel working nearby are not affected.

9.2.3 Personnel Decontamination Sequence

Decontamination may be performed by removing all PPE used in EZ and placing it in drums/trash cans at the CRZ. Baby wipes should be available for wiping hands and face. Drums/trash cans-will be labeled by the field crews in accordance with all local, state, and federal requirements. Management plans for contaminated PPE, and tools are provided below.

9.2.4 Emergency Decontamination

If circumstances dictate that contaminated clothing cannot be readily removed, then remove gross contamination and wrap injured personnel with clean garments/blankets to avoid contaminating other personnel or transporting equipment. If the injured person can be moved,

he/she will be decontaminated by site personnel as described above before emergency responders handle the victim. If the person cannot be moved because of the extent of the injury (a back or neck injury), provisions must be made to ensure that emergency response personnel will be able to respond to the victim without being exposed to potentially hazardous atmospheric conditions. If the potential for inhalation hazards exists, such as with open excavation, this area will be covered with polyethylene sheeting to eliminate any potential inhalation hazards. All emergency personnel should be immediately informed of the injured person's condition, and potential contaminants, and provided with all pertinent data.

9.2.5 Hand-Held Equipment Decontamination

Hand-held equipment includes all monitoring instruments as stated earlier, samples, hand tools, and notebooks. The hand-held equipment is dropped at the first decontamination station to be decontaminated by one of the decontamination team members. These items must be decontaminated or discarded as waste prior to removal from the CRZ.

To aid in decontamination, monitoring instruments can be sealed in plastic bags or wrapped in polyethylene. This will also protect the instruments against contaminants. The instruments will be wiped clean using wipes or paper towels if contamination is visually evident. Sampling equipment, hand tools, etc. will be cleaned with non-phosphorous soap to remove any potentially contaminated soil and rinsed with deionized water. All decontamination fluids will be containerized and stored on-site pending waste characterization sampling and appropriate off-site disposal.

9.2.6 Heavy Equipment Decontamination

All heavy equipment and vehicles arriving at the work site will be free from contamination from offsite sources. Any vehicles arriving to work that are suspected of being impacted will not be permitted on the work site. Potentially contaminated heavy equipment will not be permitted to leave the EZ unless it has been thoroughly decontaminated and visually inspected by the HSO or his designee.

9.3 Support Zone

The support zone or cold zone will include the remaining areas of the job site. Break areas and support facilities (including equipment storage and maintenance areas) will be located in this zone. No equipment or personnel will be permitted to enter the cold zone from the hot zone without passing through the decontamination station in the warm zone (if necessitated). Eating, smoking, and drinking will be allowed only in this area.

9.4 Communications

The following communications equipment will be utilized as appropriate.

- Telephones - A cellular telephone will be located with the HSO for communication with the HSM and emergency support services/facilities.
- Hand Signals - Hand signals must be used by field teams, along with the buddy system. The entire field team must know them before operations commence and their use covered during site-specific training. Typical hand signals are the following:

Hand Signal	Meaning
Hand gripping throat	Out of air, cannot breathe
Grip your partner's wrists or place both hands around the waist	Leave immediately without debate
Hands on top of head	Need assistance
Thumbs up	OK; I am all right; I understand
Thumbs down	No; negative
Simulated "stick" break with fists	Take a break; stop work

9.5 The Buddy System

When working in teams of two or more, workers will use the "buddy system" for all work activities to ensure that rapid assistance can be provided in the event of an emergency. This requires work groups to be organized such that workers can remain close together and maintain visual contact with one another. Workers using the "buddy system" have the following responsibilities:

- Provide his/her partner with assistance.
- Observe his/her partner for signs of chemical or heat exposure.
- Periodically check the integrity of his/her partner's PPE.
- Notify the HSO or other site personnel if emergency service is needed.

10.0 NEAREST MEDICAL ASSISTANCE

The address and telephone number of the nearest hospital:

Montefiore Jack D. Weller Hospital/Einstein Campus
1825 Eastchester Road
Bronx, New York
718-904-2800

A map with directions to the hospital is shown in Figure 2. This information will either be posted prominently at the site or will be available to all personnel all the time. Further, all field personnel, including the HSO & FTL, will know the directions to the hospital.

11.0 STANDING ORDERS/SAFE WORK PRACTICES

The standing orders, which consist of a description of safe work practices that must always be followed while on-site by Langan employees and contractors, are shown in Attachment A. The site HSO and FTL each have the responsibility for enforcing these practices. The standing orders will be posted prominently at the site or are always made available to all personnel. Those who do not abide by these safe work practices will be removed from the site.

12.0 SITE SECURITY

No unauthorized personnel must be permitted access to the work areas.

13.0 UNDERGROUND UTILITIES

As provided in Langan's Underground Utility Clearance Guidelines, the following safe work practices should be followed by Langan personnel and the contractor before and during subsurface work in accordance with federal, state, and local regulations:

- Obtain available utility drawings from the property owner/client or operator.
- Provide utility drawings to the project team.
- In the field, mark the proposed area of subsurface disturbance (when possible).
- Ensure that the utility clearance system has been notified.
- Ensure that utilities are marked before beginning subsurface work.
- Discuss subsurface work locations with the owner/client and contractors.
- Obtain approval from the owner/client and operators for proposed subsurface work locations.
- Use safe digging procedures when applicable.
- Stay at least ten feet from all equipment performing subsurface work.
- Ensure that the one-call (811) system or state utility hotline in your area has been notified. Private mark-outs may require the use of ground penetrating radar (GPR).
- Attempt to stay at least 15 feet from subsurface electrical lines and at least 10 feet from all other utility lines or mark-outs. Minimum clearance distances may increase as per chart below.

- Hand auger subsurface boreholes and test pits to 5 feet below ground surface.

TABLE A—MINIMUM CLEARANCE DISTANCES

Voltage (nominal, kV, alternating current)	Minimum clearance distance (feet)
up to 50	10
over 50 to 200	15
over 200 to 350	20
over 350 to 500	25
over 500 to 750	35
over 750 to 1,000	45
over 1,000	(as established by the utility owner/operator or registered professional engineer who is a qualified person with respect to electrical power transmission and distribution).

14.0 SITE SAFETY INSPECTION

The Langan HSO or alternate will check the work area daily, at the beginning and end of each work shift, or more frequently to ensure safe work conditions. The HSO or alternate must complete the Jobsite Safety Inspection Checklist, found in Attachment F. Any deficiencies must be shared with the FTL, HSM, and PM and will be discussed at the daily tailgate meeting.

15.0 HAND AND POWER TOOLS

All hand- and electric-power tools and similar equipment must be maintained in a safe operating condition. All electric-power tools must be inspected before initial use. Damaged tools must be removed immediately from service or repaired. Tools must be used only for the purpose for which they were designed. All users must be properly trained in their safe operation.

16.0 EMERGENCY RESPONSE

16.1 General

This section establishes procedures and provides information for use during a project emergency. Emergencies happen unexpectedly and quickly, and require an immediate response; therefore, contingency planning and advanced training of staff is essential. Specific elements of emergency support procedures that are addressed in the following subsections include communications, local emergency support units, and preparation for medical emergencies, first aid for injuries incurred on site, record keeping, and emergency site evacuation procedures. In case of emergency, in addition to 911, call *WorkCare - Incident Intervention®* at 1-888-479-7787 to report their injuries. For all other communications, contact the Langan Incident Hotline at **973-560-4699** as soon as possible.

Should outside assistance be needed for accidents, fire, or release of hazardous substances, the emergency numbers will be available and posted at the site (Table 5) where a readily accessible telephone is made available for emergency use.

Also, in the event of an incident where a team member becomes exposed or suffers from an acute symptom from contact with site materials and has to be taken to a hospital, a short medical data sheet (Attachment C) for that individual will be made available to the attending physician. The medical data sheet will include the following:

- Name, address, home phone
- Age, height, weight
- Name of person to be notified in case of an accident.
- Allergies
- Sensitivities
- Does he/she wear contact lenses?
- Short checklist of previous illness
- Name of personal physician and phone
- Name of company physician and phone
- Prescription and non-prescription medications currently used.

An incident reporting form is included in Attachment C.

16.2 Responsibilities

16.2.1 Construction Health and Safety Officer (HSO)

The HSO is responsible for ensuring that all personnel are evacuated safely, and that machinery and processes are shut down or stabilized in the event of a stop work order or evacuation. The HSO is responsible for ensuring the HSM is notified of all incidents, all injuries, near misses, fires, spills, releases, or equipment damage. The HSO is required to immediately notify the HSM of any fatalities or catastrophes (three or more workers injured and hospitalized) so that the HSM can notify OSHA within the required time limit.

16.2.2 Emergency Coordinator

The HSO or their designated alternate will serve as the Emergency Coordinator. The Emergency Coordinator is responsible for ensuring that all personnel are evacuated safely, and that machinery and processes are shut down or stabilized in the event of a stop work order or evacuation. They are also responsible for ensuring the HSM is notified of all incidents, all injuries, near misses, fires, spills, releases, or equipment damage. The Emergency Coordinator is required to immediately notify the HSM of any fatalities or catastrophes (three or more workers injured and hospitalized.

The Emergency Coordinator must locate emergency phone numbers and identify hospital routes prior to beginning work on the sites. The Emergency Coordinator must make necessary arrangements to be prepared for any emergencies that could occur.

The Emergency Coordinator is responsible for implementing the Emergency Response Plan.

16.2.3 Site Personnel

Project site personnel are responsible for knowing the Emergency Response Plan and the procedures contained herein. All personnel are expected to notify the Emergency Coordinator of situations that could constitute a site emergency. Project site personnel, including all subcontractors, will be trained in the Emergency Response Plan.

16.3 Communications

Once an emergency has been stabilized, the injured Langan personnel should contact *WorkCare - Incident Intervention®* at 1-888-479-7787 to report their injuries. For all other communications, contact the Langan Incident Hotline at **973-560-4699** as soon as possible.

16.4 Local Emergency Support Units

In order to be able to deal with any emergency that might occur during investigative activities at the site, the Emergency Notification Numbers (Table 5) will be posted and provided to all personnel conducting work within the EZ.

Figure 2 shows the hospital route map. Outside emergency number 911 and local ambulance should be relied on for response to medical emergencies and transport to emergency rooms. Always contact first responders when there are serious or life-threatening emergencies on the site. Project personnel are instructed not to drive injured personnel to the Hospital. In the event of an injury, provide first aid and keep the injured party calm and protected from the elements, and treat for shock when necessary.

16.5 Pre-Emergency Planning

Langan will communicate directly with administrative personnel from the emergency room at the hospital to determine whether the hospital has the facilities and personnel needed to treat cases of trauma resulting from any of the contaminants expected to be found on the site. Instructions for finding the hospital will be posted conspicuously in the site office and each site vehicle.

16.6 Emergency Medical Treatment

The procedures and rules in this CHASP are designed to prevent employee injury. However, if an injury occurs, no matter how slight, it will be reported to the HSO immediately. First-aid equipment will be available on-site at the following locations:

- First Aid Kit: Contractor Vehicles
- Emergency Eye Wash: Contractor Vehicles

During the site safety briefing, project personnel will be informed of the location of the first aid station(s) that has been set up. Some injuries, such as severe cuts and lacerations or burns, may require immediate treatment. First-aid instructions provided from off-site doctors or paramedics, before an emergency-response squad arrives at the site or before the injured person can be transported to the hospital, will be followed closely. Only in non-emergency situations may an injured person be transported to an urgent care facility. Due to hazards that may be present at the site and the conditions under which operations are conducted, an emergency may develop. Emergencies can be characterized as injury or acute chemical exposure to personnel, fire or explosion, environmental release, or hazardous weather conditions.

16.8 Emergency Site Evacuation Routes and Procedures

All project personnel will be instructed on proper emergency response procedures and locations of emergency telephone numbers during the initial site safety meeting. If an emergency occurs as a result of the site investigation activities, including but not limited to fire, explosion, or significant release of toxic gas into the atmosphere, the Langan Project Manager will be verbally notified immediately. All heavy equipment will be shut down and all personnel will evacuate the work areas and assemble at the nearest intersection to be accounted for and to receive further instructions.

If an emergency arises, the FTL will implement an immediate evacuation of all project personnel due to immediate or impending danger. The FTL will also immediately communicate with the contractor to coordinate any needed evacuation of the property.

The FTL or Site Supervisor will give necessary instructions until the Designated Incident Commander (IC) assumes control. After the emergency has been resolved, the FTL or Site Supervisor will coordinate with the IC and indicate when staff should resume their normal duties. If dangers are present for those at the designated assembly point, another designated location of assembly will be established.

It will be the responsibility of the FTL or Site Supervisor to report a fire or emergency, assess the seriousness of the situation, and initiate emergency measures until the arrival of the local fire fighters or other first responders, should they be necessary. The FTL, working with emergency

responders, may also order the closure of the Site for an indefinite period as long as it is deemed necessary.

Under no circumstances will incoming visitors be allowed to proceed to the area of concern once an emergency evacuation has been implemented. Visitors or other persons present in the area of the emergency must be instructed to evacuate the area. The FTL will ensure that access roads are not obstructed and will remain on-site to provide stand-by assistance upon the arrival of emergency personnel.

If it is necessary to temporarily control traffic in the event of an emergency, those persons controlling traffic will wear proper reflection warning vests until the arrival of police or fire personnel.

16.8.1 Designated Assembly Locations

All personnel will evacuate the site and assemble at a designated assembly location. The assembly location will be designated by Langan personnel and discussed during each shift's pre-job safety briefing.

16.8.2 Accounting for Personnel

All contractor and subcontractor supervisors are responsible for the accounting of all personnel assembled at the designed assembly area. The Designated Incident Commander must be notified if personnel are not found.

16.9 Fire Prevention and Protection

In the event of a fire or explosion, procedures will include immediately evacuating the site and notification of the Langan Project Manager of the investigation activities. Portable fire extinguishers will be provided at the work zone. The extinguishers located in the various locations should also be identified prior to the start of work. No personnel will fight a fire beyond the stage where it can be put out with a portable extinguisher (incipient stage).

16.9.1 Fire Prevention

Fires will be prevented by adhering to the following precautions:

- Good housekeeping and storage of materials.
- Storage of flammable liquids and gases away from oxidizers.
- Shutting off engines to refuel.
- Grounding and bonding metal containers during transfer of flammable liquids.
- Use of UL approved flammable storage cans.

- Fire extinguishers rated at least 10 pounds ABC located on all heavy equipment, in all trailers and near all hot work activities.

The person responsible for the control of fuel source hazards and the maintenance of fire prevention and/or control equipment is the HSO.

16.10 Significant Vapor Release

Based on the proposed tasks, the potential for a significant vapor release is low. However, if a release occurs, the following steps will be taken:

- Move all personnel to an upwind location. All non-essential personnel must evacuate.
- Upgrade to Level C Respiratory Protection.
- Downwind perimeter locations must be monitored for volatile organics.
- If the release poses a potential threat to human health or the environment in the community, the Emergency Coordinator must notify the Langan Project Manager.
- Local emergency response coordinators will be notified.

16.11 Overt Chemical Exposure

The following are standard procedures to treat chemical exposures. Other, specific procedures detailed on the Material Safety Data Sheet (MSDS) will be followed, when necessary.

SKIN AND EYE: Use copious amounts of soap and water from eye-wash kits and portable hand-wash stations.

CONTACT: Wash/rinse affected areas thoroughly, then provide appropriate medical attention. Skin must also be rinsed for 15 minutes if contact with caustics, acids, or hydrogen peroxide occurs. Affected items of clothing must also be removed from contact with skin.

Providing wash water and soap will be the responsibility of each individual contractor or subcontractor on-site.

16.12 Decontamination during Medical Emergencies

If emergency lifesaving first aid and/or medical treatment is required, normal decontamination procedures may need to be abbreviated or omitted. The HSO or designee will accompany contaminated victims to the medical facility to advice on matters involving decontamination when necessary. The outer garments can be removed if they do not cause delays, interfere with treatment, or aggravate the problem. Respiratory equipment must always be removed. Protective clothing can be cut away. If the outer contaminated garments cannot be safely removed on site, a plastic barrier placed between the injured individual and clean surfaces should be used to help prevent contamination of the inside of ambulances and/or medical personnel.

Outer garments may then be removed at the medical facility. No attempt will be made to wash or rinse the victim if his/her injuries are life threatening unless it is known that the individual has been contaminated with an extremely toxic or corrosive material which could also cause severe injury or loss of life to emergency response personnel. For minor medical problems or injuries, normal decontamination procedures will be followed.

16.13 Adverse Weather Conditions

In the event of adverse weather conditions, the HSO will determine if work continues without potentially risking the safety of all field workers. Some of the items to be considered prior to determining if work should continue are:

- Potential for heat stress and heat-related injuries.
- Potential for cold stress and cold-related injuries.
- Treacherous weather-related working conditions (hail, rain, snow, ice, high winds).
- Limited visibility (fog).
- Potential for electrical storms.
- Earthquakes.
- Other major incidents.

Site activities will be limited to daylight hours, or when suitable artificial light is provided, and acceptable weather conditions prevail. The HSO will determine the need to cease field operations or observe daily weather reports and evacuate, if necessary, in case of severe inclement weather conditions.

16.14 Spill Control and Response

All small spills/environmental releases must be contained as close to the source as possible. Whenever possible, the SDS will be consulted to assist in determining proper waste characterization and the best means of containment and cleanup. For small spills, sorbent materials such as sand, sawdust, or commercial sorbents should be placed directly on the substance to contain the spill and aid recovery. Any acid spills should be diluted or neutralized carefully prior to attempting recovery. Berms of earthen or sorbent materials can be used to contain the leading edge of the spills. All spill containment materials will be properly disposed of. An exclusion zone of 50 to 100 feet around the spill area should be established depending on the size of the spill.

All contractor vehicles must have spill kits on them with enough material to contain and absorb the worst-case spill from that vehicle. All vehicles and equipment must be inspected prior to being admitted on-site. Any vehicle or piece of equipment that develops a leak will be taken out of service and removed from the job site.

The following seven steps must be taken by the Emergency Coordinator:

1. Determine the nature, identity, and amounts of major spills.
2. Make sure all unnecessary persons are removed from the spill area.
3. Notify the HSO immediately.
4. Use proper PPE in consultation with the HSO.
5. If a flammable liquid, gas, or vapor is involved, remove all ignition sources, and use non-sparking and/or explosion-proof equipment to contain or clean up the spill (diesel-only vehicles, air-operated pumps, etc.)
6. If possible, try to stop the leak with the appropriate material.
7. Remove all surrounding materials that can react or compound with the spill.

In addition to the spill control and response procedures described in this CHASP, Langan personnel will coordinate with the designated project manager relative to spill response and control actions. Notification to the Project Manager must be immediate and, to the extent possible, include the following information:

- Time and location of the spill.
- Type and nature of the material spilled.
- Amount spilled.
- Whether the spill has affected or has a potential to affect a waterway or sewer.
- A brief description of affected areas/equipment.
- Whether the spill has been contained.
- Expected time of cleanup completion. If spill cleanup cannot be handled by Langan's on-site personnel alone, such fact must be conveyed to the Project Manager immediately.

Langan field personnel must notify the project manager when they observe a spill or encounter conditions suggesting one might have occurred.

16.15 Emergency Equipment

The following minimum emergency equipment must be kept and maintained on site:

- Industrial first aid kit.
- Fire extinguishers (one per site).

16.16 Restoration and Salvage

After an emergency, prompt restoration of utilities, fire protection equipment, medical supplies, and other equipment will reduce the possibility of further losses. Some of the items that may need to be addressed are:

- Refilling fire extinguishers.
- Refilling medical supplies.
- Recharging eyewashes and/or showers.
- Replenishing spill control supplies.

16.17 Documentation

Immediately following an incident or near miss, unless emergency medical treatment is required, either the employee or a coworker must contact the Langan Incident/Injury Hotline at 1-(800)-9-LANGAN (extension 4699) and the client representative to report the incident or near miss. For emergencies involving personnel injury and/or exposure, the HSO and affected employee will complete and submit an Employee Exposure/Injury Incident Report (Attachment C) to the Langan Corporate Construction Health and Safety Manager as soon as possible following the incident.

17.0 SPECIAL CONDITIONS

This guideline contains information and requirements for special conditions that may not be routinely encountered.

17.1 Scope

The guideline applies to the specific projects identified within this document. Additional provisions will be addressed in each Site-Specific Construction Health and Safety Plan (CHASP), as needed.

17.2 Responsibilities

Site Personnel - All site personnel must be alert to safety hazards on work sites and take action to minimize such hazards. Personnel must utilize the buddy system, watch for inappropriate behavior, and be alerted to changes in site conditions.

Construction Health and Safety Officer (HSO) - The HSO is responsible for considering these procedures in the development of site-specific CHASPs. The HSO must schedule frequent "tail gate" safety briefings to enhance safety awareness and discuss potential problems.

17.3 Procedures

The procedures outlined below must be followed when such conditions are encountered.

17.3.1 Ladders

Langan safety procedures must be used to ensure employee safety when using ladders in the office or work sites. All ladders must be coated or repaired to prevent injury to the employee

from punctures or lacerations and to prevent snagging or clothing. Any wood ladders used must have an opaque covering except for identification or warning labels, which may be placed on one face only of a side rail.

17.3.1.1 Ladder Use

Employees must only use ladders for the purposes they were designed for and must not be used as scaffolding. Ladders will be maintained and inspected prior to use for slip hazards including oil and grease. Employees must use ladders only on stable and level surfaces unless the ladder is secured to prevent displacement. Ladders should not be used on slippery surfaces unless secured or provided with slip-resistant feet to prevent accidental displacement. Ladders should not be used in locations where they could be displaced by workplace activities or traffic. Ladder rungs, cleats and steps must be parallel, level and uniformly spaced when the ladder is in the use position.

Employees should not be carrying anything including equipment that could cause injury if there was a fall while utilizing the ladder. The top and bottom of the ladder area must remain clear while in use. When ascending and descending the ladder, employees must face the ladder.

Ladders must not be loaded beyond the maximum intended load for which they were built or the manufacturer's rated capacity.

17.3.1.2 Portable Ladders

Rungs, cleats, and steps for portable ladders and fixed ladders must be spaced not less than 10 inches apart, nor more than 14 inches apart, as measured between center lines of the rungs, cleats, and steps. When used to access an upper landing surface, the ladder side rails must extend at least three feet above the upper landing surface to which the ladder is used to gain access. If this is not possible, due to the length of the ladder, then the top of the ladder must be secured at its top to a rigid support.

17.3.1.3 Step Stools

Rungs, cleats, and steps of step stools must not be less than 8 inches apart, nor more than 12 inches apart, as measured between center lines of the rungs, cleats, and steps.

17.3.1.4 Extension Ladders

Rungs, cleats, and steps of the base section of extension trestle ladders must be spaced not less than 8 inches apart, nor more than 18 inches apart, as measured between center lines of the rungs, cleats, and steps. The rung spacing on the extension section of the extension trestle ladder must not be less than 6 inches nor more than 12 inches, as measured between the center

lines of the rungs, cleats and steps. Ladders must be used at an angle such that the horizontal distance from the top support to the foot of the ladder is approximately one-quarter of the working length of the ladder (the distance along the ladder between the foot and the top support).

17.3.1.5 Inspection

Ladders will be inspected for visible detects periodically, prior to utilization or after any occurrence that could have negatively affected the ladder. Portable ladders with defects including broken or missing rungs, cleats, or steps, broken or split rails, corroded components, or other faulty components must not be used. The ladder will be immediately marked as defective, tagged as "Do Not Use" or blocked from being used and removed from service until repaired.

17.3.2 First Aid/Cardiopulmonary Resuscitation (CPR)

Langan field and office personnel will be encouraged to be trained in First Aid and Cardiopulmonary Resuscitation (CPR). Training will be provided free of charge by Langan to all employees. Employees will receive a training certificate that will be kept on file with the Health & Safety Coordinator (HSC). Training and certification will be provided by a credited provider such as American Red Cross or equivalent.

17.3.2.1 Emergency Procedures

Prior to site work, the Langan employees certified in first aid and CPR will be identified in the site-specific CHASP. Langan will endear to have at least one employee at a job site trained and able to render first aid and CPR. The site-specific CHASP will contain first aid information on both potential chemical and physical hazards. Emergency procedures to be followed in case of injury or illnesses are provided in the CHASP. The CHASP will include emergency contact information including local police and fire departments, hospital emergency rooms, ambulance services, on-site medical personnel, and physicians. The CHASP will also include directions and contact information for the nearest emergency facility in case immediate medical attention is required. The emergency contact information will be conspicuously posted at the worksite. Employees that are injured and require immediate medical attention must call either 911 or the local posted emergency contacts. Employees should use ambulatory services to transport injured workers to the nearest facility for emergency medical care. In areas where 911 is not available, the telephone numbers of physicians, hospitals, or ambulances must be conspicuously posted.

17.3.2.2 First Aid Supplies

First aid supplies are readily available to all Langan employees when required. First aid kits are in each Langan office. Portable first aid kits are available for employees to use at work sites. First aid kits should consist of items needed to treat employees for potential chemical and

physical injuries. At a minimum, first aid kits should contain items to allow basic first aid to be rendered. Where the eyes or body of an employee may be exposed to corrosive materials, suitable facilities for quick drenching or flushing of the eyes and body must be provided within the work area for immediate emergency use including eye wash.

First aid kits will be weatherproof with individually sealed packages of each item. All portable first aid kits must be inspected by Langan employees before and after use to ensure all used items are replaced. When out in the field, employees must check first aid kits weekly to ensure used items are replaced.

17.3.3 Hydrogen Sulfide

Langan employees with the potential to be exposed to hydrogen sulfide while at work sites must have training in hydrogen sulfide awareness. The training will include the identification of areas where employees could be exposed to hydrogen sulfide, health effects, permissible exposure limits, first aid procedures, and personnel protective equipment. Langan employees could be exposed to hydrogen sulfide while at job sites including petroleum refineries, hazardous waste treatment, storage and disposal facilities, uncontrolled hazardous waste sites, and remediation projects.

17.3.3.1 Characteristics

Hydrogen sulfide is a colorless gas with a strong odor of rotten eggs that is soluble in water. Hydrogen sulfide is used to test and make other chemicals. It is also found as a by-product of chemical reactions, such as in sewer treatment. It is a highly flammable gas and a dangerous fire hazard. Poisonous gases are produced in fires including sulfur oxides. Hydrogen sulfide is not listed as a carcinogen.

17.3.3.2 Health Effects

Hydrogen Sulfide can affect employees if inhaled or through contact with skin or eyes. Acute (or short-term) health effects of hydrogen sulfide exposure include irritation of the nose and throat, dizziness, confusion, headache, and trouble sleeping. Inhalation of hydrogen sulfide can irritate the lungs causing coughing and/or shortness of breath. Higher levels of exposure can cause a build-up of fluid in the lungs (pulmonary edema), a medical emergency, with severe shortness of breath.

Chronic (or long-term) health effects of low levels of exposure to hydrogen sulfide can cause pain and redness of the eyes with blurred vision. Repeated exposure may cause bronchitis with cough, phlegm, and shortness of breath.

17.3.3.3 Protective Clothing and Equipment

Respirators are required for those operations in which employees will be exposed to hydrogen sulfide above OSHA permissible exposure level. The maximum OSHA permissible exposure limit (PEL) for hydrogen sulfide is 20 parts of hydrogen sulfide vapor per million parts of air (20 ppm) for an 8-hour workday and the maximum short-term exposure limit (STEL) is 10 ppm for any 10-minute period.

Where employees are exposed to levels up to 100 parts of hydrogen sulfide vapor per million parts of air (100 ppm), the following types of respiratory protection are allowed:

- Any powered, air-purifying respirator with cartridge(s).
- Any air-purifying, full-facepiece respirator (gas mask) with a chin style, front- or back-mounted canister.
- Any supplied air system with escape self-contained breathing apparatus, if applicable; and,
- Any self-contained breathing apparatus with a full facepiece.

Respirators used by employees must have joint Mine Safety and Health Administration and the National Institute for Occupational Safety and Health (NIOSH) seal of approval. Cartridges or canisters must be replaced before the end of their service life, or the end of the shift, whichever occurs first. Langan employees that have the potential to be exposed to hydrogen sulfide will be trained in the proper use of respirators. Respirator training is discussed under– Langan's Respiratory Protection Program.

Employees with potential exposure to hydrogen sulfide, or when required by the client, will wear a portable hydrogen sulfide gas detector. The detector should have an audible, visual, and vibrating alarm. The detector may also provide detection for carbon monoxide, sulfur dioxide, and oxygen-deficient atmospheres. The hydrogen sulfide monitor will, at a minimum, be calibrated to detect hydrogen sulfide at a level of 20 parts of hydrogen sulfide vapor per million parts of air (20 ppm). Many portable gas detectors will have factory defaults with a low-level alarm at 10 ppm and a high-level alarm at 15 ppm. Langan employees must consult clients to determine if any site-specific threshold levels exist.

If the hydrogen sulfide gas detector sounds and employees are not wearing appropriate respiratory protection, employees must immediately vacate the area and meet at the assigned emergency location. Langan employees may not re- enter the site without proper respiratory protection and approval from the client or property owner if needed.

Employees must wear PPE to prevent eye and skin contact with hydrogen sulfide. Employees must wear appropriate protective clothing including boots, gloves, sleeves, and aprons, over any

parts of their body that could be exposed to hydrogen sulfide. Non-vented, impact-resistant goggles should be worn when working with or exposed to hydrogen sulfide.

17.3.3.4 Emergency and First Aid Procedures

Eye and Face Exposure

If hydrogen sulfide comes in contact with eyes, it should be washed out immediately with large amounts of water for 30 minutes, occasionally lifting the lower and upper eye lids. Seek medical attention immediately.

Skin Exposure

If hydrogen sulfide contaminates clothing or skin, remove the contaminated clothing immediately and wash the exposed skin with large amounts of water and soap. Seek medical attention immediately. Contaminated clothing should either be disposed of or washed before wearing again.

Breathing

If a Langan employee or other personnel breathe in hydrogen sulfide, immediately get the exposed person to fresh air. If breathing has stopped, artificial respiration should be started. Call for medical assistance or a doctor as soon as possible.

Safety Precautions

Hydrogen sulfide is a highly flammable gas and a dangerous fire hazard. Containers of hydrogen sulfide may explode in a fire situation. Poisonous gases are produced during fires.

Langan employees should contact property owners and operators prior to conducting work onsite to be aware of any site-specific contingency plans, identify where hydrogen sulfide is used at the facility, and be informed about additional safety rules or procedures.

17.3.4 Fire Protection/Extinguishers

Langan field personnel that have been provided with portable fire extinguishers for use at worksites will be trained to familiarize employees with general principles of fire extinguisher use and hazards associated with the incipient stage of firefighting. Training will be provided prior to the initial assignment for field work and annually thereafter.

Portable fire extinguishers must be visually inspected monthly and subjected to an annual maintenance check. Langan will retain records of the annual maintenance date.

17.3.5 Overhead lines

When field work is performed near overhead lines, the lines must be de-energized and grounded, or other protective measures must be provided before the work commences. If overhead lines are to be de-energized, arrangements must be made with the client, property owner, or organization that operates or controls the electric circuits involved to de-energize and ground them. If protective measures, such as guarding, isolating, or insulating, are provided, these precautions must prevent employees from contacting such lines directly with any part of their body or indirectly through conductive materials, tools, or equipment.

When unqualified Langan personnel are working in an elevated position near overhead lines, the location must be such that the person and the longest conductive object they may contact cannot come closer to any unguarded, energized overhead line than the following distances:

1. For voltages to ground 50 kilovolts (kV) or below - 10 feet; and
2. For voltages to ground over 50kV - 10 feet, plus 4 inches for every 10kV over 50kV.

As previously indicated, Langan does not retain qualified employees to perform work on energized equipment.

17.3.5.1 Vehicle and Equipment Clearance

Any vehicle or mechanical equipment capable of having parts of its structure elevated near energized overhead lines must be operated so that a clearance of 10 feet is maintained. If the voltage of the overhead lines is higher than 50kV, the clearance must be increased by 4 inches for every 10kV over that voltage.

If any of the following discussed conditions occur, the clearance may be reduced.

- If the vehicle is in transit with its structure lowered, the clearance may be reduced to 4 ft. If the voltage is higher than 50kV, the clearance must be increased to 4 inches for every 10 kV over that voltage.
- If insulating barriers are installed to prevent contact with the lines, and if the barriers are rated for the voltage of the line being guarded and are not a part of or an attachment to the vehicle or its raised structure, the clearance may be reduced to a distance within the designed working dimensions of the insulating barrier.

Employees standing on the ground may not contact the vehicle or mechanical equipment or any of its attachments unless the employee is using protective equipment rated for the voltage, or the equipment is located so that no uninsulated part of its structure (that portion of the structure that provides a conductive path to employees on the ground) can come closer to the overhead line than permitted.

If any vehicle or mechanical equipment capable of having parts of its structure elevated near energized overhead lines is intentionally grounded, employees working on the ground near the point of grounding may not stand at the grounding location whenever there is a possibility of overhead line contact. Additional precautions, such as the use of barricades or insulation, must be taken to protect employees from hazardous ground potentials, depending on earth resistivity and fault currents, which can develop within the first few feet or more outward from the grounding point.

17.3.6 Trade Secret

Langan employees could potentially be provided trade secret information by the client or property owner when site-specific information is provided about highly hazardous chemicals. Trade secret means any confidential formula, pattern, process, device, information, or compilation of information that is used in an employer's business, and that allows the employer to obtain an advantage over competitors who do not know or use it. Langan employees understand that this information should be kept confident and if required, may enter into a confidentiality agreement with the client.

17.3.7 Bloodborne Pathogens

Langan employees that can anticipate exposure to blood or other potentially infectious material while at work sites must have training in bloodborne pathogens. Applicable employees would include those trained in first aid and serving a designated role as an emergency medical care provider. Bloodborne pathogens are pathogenic microorganisms that are present in human blood and can cause disease in humans. These pathogens include but are not limited to, hepatitis B virus and human immunodeficiency virus.

17.3.7.1 Training

Langan employees with potential occupational exposure to blood or other potentially infectious material must participate in a training program. Training must be conducted prior to the initial assignment where there would be potential for exposure and annually thereafter within one year of previous training. The training program will be provided to Langan employees at no cost to them and during working hours.

Langan will ensure the training program must consist of the following:

- An accessible copy of the regulatory text of 29 CFR 1910.1030 and an explanation of its contents.
- A general explanation of the epidemiology and symptoms of bloodborne diseases.
- An explanation of the modes of transmission of bloodborne pathogens.

- An explanation of Langan's exposure control plan and how the employee can obtain a copy of the written plan.
- An explanation of the appropriate methods for recognizing tasks and other activities that may involve exposure to blood and other potentially infectious materials.
- An explanation of the use and limitations of personal protective equipment (PPE) to prevent and reduce exposure.
- Information on the types, proper use, location, removal, handling, and disposal of PPE.
- An explanation of the basis for the selection of PPE.
- Information on the hepatitis B vaccine, including information on its efficacy, safety, method of administration, the benefits of being vaccinated, and that the vaccine and vaccination will be offered free of charge.
- Information on the appropriate actions to take and persons to contact in an emergency involving blood or other potentially infectious materials.
- An explanation of the procedure to follow if an exposure incident occurs, including the method of reporting the incident and the medical follow-up that will be made available.
- Information on the post-exposure evaluation and determining whether the employer is required to provide for the employee following an exposure incident.
- An explanation of the signs and labels and/or color coding required by paragraph 29 CFR 1910.1030(g)(1); and
- An opportunity for interactive questions and answers with the person conducting the training session.

Langan will develop and implement a written Exposure Control Plan, which will be designed to eliminate or minimize employee exposure to bloodborne pathogens. The Exposure Control Plan will contain the following elements:

- An exposure determination for employees.
- The schedule and method of implementation for Methods of Compliance (29 CFR 191.1030(d)), Hepatitis B Vaccination and Post-Exposure Evaluation and Follow-up (29 CFR 1910.1030(f)), Communication of Hazards to Employees (29 CFR 1910.1030(g)) and (h) Recordkeeping (29 CFR 1910.1030(h)).
- The procedure for the evaluation of circumstances surrounding exposure incidents.
- Ensure a copy of the Exposure Control Plan will be accessible to employees; and,
- The Exposure Control Plan must be reviewed and updated at least annually.

Langan employees with occupational exposure to bloodborne pathogens include any employees trained in first aid that would be expected to provide emergency medical care. This determination is made without regard to the use of PPE, which could eliminate or minimize exposure.

Universal precautions must be observed to prevent contact with blood or other potentially infectious materials. According to the concept of Universal Precautions, all human blood and certain human body fluids are treated as if known to be infectious for bloodborne pathogens. When differentiation between body fluid types is difficult or impossible, all body fluids must be considered potentially infectious materials.

Work practice controls must be used to eliminate or minimize employee exposure, if applicable. Since Langan employees will have occupational exposure only during the rendering of first aid, personnel protective equipment will be utilized to reduce or minimize exposure. PPE that could be available to Langan personnel when administering first aid includes safety glasses, gloves, and Tyvek suits or sleeves. PPE and first aid kits will be provided to employees at no cost to them.

Langan employees that render first aid in office areas will have access to hand-washing facilities or restrooms. For first aid rendered at field locations, first aid kits will contain an appropriate antiseptic hand cleanser and clean cloth/paper towels or antiseptic towelettes. After using antiseptic hand cleansers or towelettes, employees must wash their hands with soap and running water as soon as feasible.

After administering first aid, potentially infectious materials, including towels, personnel protective equipment, clothes, and bandages, must be placed in a container, which prevents leakage during collection, handling, processing, storage, transport, or shipping. All PPE will be disposed of after use. Any equipment or working surfaces which was been exposed to blood or potentially infectious materials due to an injury will be decontaminated prior to reuse.

Langan will make available the hepatitis B vaccine and vaccination series to all employees who have occupational exposure, and post-exposure evaluation and follow-up to all employees who have had an exposure incident. These services will be available to the employee at no cost to them through a medical provider.

17.3.7.2 Recordkeeping

Langan will maintain training and medical records for each employee with occupational exposure to blood or potentially infectious materials. Medical and training records will be maintained by Langan's H&S Department.

Training records will include the following:

- Dates of the training sessions.
- Contents or a summary of the training sessions.
- Names and qualifications of persons conducting the training; and
- Names and job titles of all persons attending the training sessions.

Training records must be maintained for 3 years from the date on which the training occurred. Medical records will be preserved and maintained for the duration of employment plus 30 years.

All records will be made available upon request to employees, the Assistant Secretary of Labor for Occupational Safety and Health, and the Director of the National Institute for Occupational Safety and Health Director of OSHA for examination and copying. Medical records must have written consent from the employee before releasing.

If Langan ceases to do business, all records must be transferred to the successor employer. The successor employer must receive and maintain these records.

If there will not be a successor, Langan will notify current employees of their rights to access records at least three months prior to the cessation of business.

18.0 RECORDKEEPING

The following is a summary of required health and safety logs, reports, and recordkeeping.

18.1 Field Change Authorization Request

Any changes to the work to be performed that are not included in the CHASP will require an addendum that is approved by the Langan project manager and Langan HSM to be prepared. Approved changes will be reviewed with all field personnel at a safety briefing.

18.2 Medical and Training Records

Copies or verification of training (40-hour, 8-hour, supervisor, site-specific training, documentation of three-day on-the-job training (OJT)), and respirator fit-test records) and medical clearance for site work and respirator use will be maintained in the office and available upon request. Records for all subcontractor employees must also be available upon request. All employee medical records will be maintained by the HSM.

18.3 Onsite Log

A log of personnel on-site each day will be kept by the HSO or designee.

18.4 Daily Safety Meetings ("Tailgate Talks")

Completed safety briefing forms (Attachment H) will be maintained by the HSO or FTL.

18.5 Exposure Records

All personal monitoring results, laboratory reports, calculations, and air sampling data sheets are part of an employee exposure record. These records will be maintained by the HSO during site work. At the end of the project, they will be maintained according to 29 CFR 1910.1020.

18.6 Hazard Communication Program - SDS

Safety Data Sheets (SDS) have been obtained for applicable substances and are included in this CHASP (Attachment D). Langan's written hazard communication program, in compliance with 29 CFR 1910.1200, is maintained by the HSM.

18.7 Documentation

Immediately following an incident or near miss, unless emergency medical treatment is required, either the employee or a coworker must contact the Langan incident/injury hotline at 973-560-4699, and the Project Manager to report the incident or near miss. The Project Manager will contact the client or client representative. A written report must be completed and submitted HSM within 24 hours of the incident. For emergencies involving personnel injury and/or exposure, the employee will complete and submit the Langan incident/injury report to the Langan corporate health and safety manager as soon as possible following the incident. Accidents will be investigated in-depth to identify all causes and to recommend hazard control measures.

18.7.1 Accident and Injury Report Forms

18.7.1.1 Accident/Incident Report

All injuries, no matter how slight, must be reported to the FTL and the PM immediately. The accident/incident report forms, attached in Attachment C, will be filled out on all accidents by the applicable contractor supervision personnel, the FTL, or the HSO. Copies of all accident/incident reports must be kept on-site and available for review. Project personnel will be instructed on the location of the first aid station, hospital, and doctor and ambulance service near the job. The emergency telephone numbers will be conspicuously posted in site vehicles near the work zone. First aid supplies will be centrally located and conspicuously posted between restricted and nonrestricted areas to be readily accessible to all on the site.

18.7.1.2 First Aid Treatment Record

The forms will be used for recording all non-lost time injuries treated by the project first-aid attendant, the local physician or hospital will be entered in detail on this record. "Minor" treatment of scratches, cuts, etc. will receive the same recording attention as treatment of more severe injuries.

18.7.1.3 OSHA Form 300

An OSHA Form 300 will be kept at the Langan Corporate Office in Parsippany, New Jersey. All recordable injuries or illnesses will be recorded on this form. Subcontractor employers must also meet the requirements of maintaining an OSHA 300 form. The Incident Report form used to capture the details of work-related injuries/illnesses meets the requirements of the OSHA Form 301 (supplemental record) and must be maintained with the OSHA Form 300 for all recordable injuries or illnesses. Forms for recording OSHA work-related injuries and illnesses are included in Attachment C.

19.0 CONFINED SPACE ENTRY

Confined spaces are not anticipated at the Site during planned construction activities. If confined spaces are identified, the contractor must implement their own confined space program that all applicable federal, state, and local regulations. Confined spaces **will not** be entered by Langan personnel.

20.0 CHASP ACKNOWLEDGEMENT FORM

All Langan personnel and contractors will sign this CHASP Compliance Agreement indicating that they have become familiar with this CHASP and that they understand it and agree to abide by it.

Printed Name	Signature	Company	Date

TABLES

TABLE 1
TASK HAZARD ANALYSES

Task	Hazard	Description	Control Measures	First Aid
1.3.1 – 1.3.22	Contaminated Soil or Groundwater-Dermal Contact	Contaminated water spills on skin, splashes in eyes; contact with contaminated soil/fill during construction activities or sampling.	Wear proper PPE; follow safe practices, maintain safe distance from construction activities	See Table 2, seek medical attention as required
1.3.1 – 1.3.22	Lacerations, abrasions, punctures	Cutting bailer twine, pump tubing, acetate liners, etc. with knife; cuts from sharp site objects or previously cut piles, tanks, etc.; Using tools in tight spaces	Wear proper PPE; follow safe practices	Clean wound, apply pressure and/or bandages; seek medical attention as required.
1.3.1 – 1.3.22	Contaminated Media Inhalation	Opening drums, tanks, wells; vapors for non-aqueous phase liquids or other contaminated site media; dust inhalation during excavation; vapor accumulation in excavation	Follow air monitoring plan; have quick access to respirator, do not move or open unlabeled drums found at the site, maintain safe distance from construction activities	See Table 2, seek medical attention as required
1.3.1 – 1.3.22	Lifting	Improper lifting/carrying of equipment and materials causing strains	Follow safe lifting techniques. Langan employees are not to carry contractor equipment or materials	Rest, ice, compression, elevation; seek medical attention as required
1.3.1 – 1.3.22	Slips, trips, and falls	Slips, trips, and falls due to uneven surfaces, cords, steep slopes, debris, and equipment in work areas	Good housekeeping at site; constant awareness and focus on the task; avoid climbing on stockpiles; maintain safe distance from construction activities and excavations; avoid elevated areas over six feet unless fully accredited in fall protection and wearing an approved fall protection safety apparatus	Rest, ice, compression, elevation; seek medical attention as required
1.3.1 – 1.3.22	Noise	Excavation equipment, hand tools, drilling equipment.	Wear hearing protection; maintain safe distance from construction activities	Seek medical attention as required
1.3.1 – 1.3.22	Falling objects	Soil material, tools, etc. dropping from drill rigs, front-end loaders, etc.	Hard hats to be worn at all times while in work zones; maintain safe distance from construction activities and excavations	Seek medical attention as required
1.3.1 – 1.3.22	Underground/ overhead utilities	Excavation equipment, drill rig auger contacts underground object; boom touches overhead utility	"One Call" before dig; follow safe practices; confirm utility locations with contractor; wear proper PPE; maintain safe distance from construction activities and excavations	Seek medical attention as required
1.3.1 – 1.3.22	Insects (bees, wasps, hornet, mosquitoes, and spider)	Sings, bites	Insect Repellent; wear proper protective clothing (work boots, socks, and light-colored pants); field personnel who may have insect allergies (e.g., bee sting) should provide this information to the HSO or FSO prior to commencing work and will have allergy medication on site.	Seek medical attention as required
1.3.1 – 1.3.22	Vehicle traffic / Heavy Equipment Operation	Vehicles unable to see workers on site, operation of heavy equipment in tight spaces, equipment failure, malfunctioning alarms	Wear proper PPE, especially visibility vest; use a buddy system to look for traffic; rope off area of work with cones and caution tape or devices at points of hazard, maintain safe distance from construction activities and equipment	Seek medical attention as required

TABLE 2
CONTAMINANT HAZARDS OF CONCERN

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	1,1′-Biphenyl 1,1-Biphenyl Biphenyl Phenyl benzene Diphenyl	92-52-4	None	1 mg/m3 100 mg/m3	Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, throat; headache, nausea, lassitude (weakness, exhaustion), numb limbs; liver damage	Eye: Irrigate immediately Skin: Water flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	1,1-Dichloroethane Asymmetrical dichloroethane Ethylidene chloride 1,1-Ethylidene dichloride 1,1-DCA	75-34-3	PID	100 ppm 3000 ppm	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the skin; central nervous system depression; liver, kidney, lung damage	Eye: Irrigate immediately Skin: Soap flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	1,2,4-Trimethylbenzene	95-63-6	PID	None None	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat, respiratory system; bronchitis; hypochromic anemia; headache, drowsiness, lassitude (weakness, exhaustion), dizziness, nausea, incoordination; vomiting, confusion; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	1,2-Dichlorobenzene o-DCB	95-50-1	PID	50 ppm 200 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eye, swelling periorbital (situated around the eye); profuse rhinitis; headache, anorexia, nausea, vomiting; weight loss, jaundice, cirrhosis; in animals: liver, kidney injury; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	1,2-Dichloroethane Ethylene dichloride 1,2-DCA DCE[1] Ethane dichloride Dutch liquid, Dutch oil Freon 150 Glycol dichloride	107-06-2	PID	1 ppm 50 ppm	Groundwater Soil Vapor	inhalation, ingestion, skin absorption, skin, and/or eye contact	irritation to the eyes, corneal opacity; central nervous system depression; nausea, vomiting; dermatitis; liver, kidney, cardiovascular system damage; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	1,3,5-Trimethylbenzene Mesitylene sym-Trimethylbenzene	108-67-8	PID	None None	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat, respiratory system; bronchitis; hypochromic anemia; headache, drowsiness, lassitude (weakness, exhaustion), dizziness, nausea, incoordination; vomiting, confusion; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	1,3-Dichlorobenzene m-Dichlorobenzol; m-Phenylene dichloride m-dichlorobenzene m-DCB	541-73-1	PID	None None	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, swelling periorbital (situated around the eye); profuse rhinitis; headache, anorexia, nausea, vomiting; weight loss, jaundice, cirrhosis; in animals: liver, kidney injury; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	1,4-Dichlorobenzene para-Dichlorobenzene p-Dichlorobenzene 1,4-Dichlorobenzene 1,4-DCB para-Dichlorobenzene p-Dichlorobenzene p-DCB PDB Paramoth Para crystals Paracide Dichlorocide	106-46-7	PID	75 ppm 150 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, swelling periorbital (situated around the eye); profuse rhinitis; headache, anorexia, nausea, vomiting; weight loss, jaundice, cirrhosis; in animals: liver, kidney injury; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	1,4-Dioxane 1,4-Dioxacyclohexane [1,4]Dioxane p-Dioxane [6]-crown-2 Diethylene dioxide Diethylene ether Dioxan Dioxane 1,4-Dioxane	123-91-1	PID	100 ppm 500 ppm	Groundwater Soil Vapor	Inhalation, ingestion, skin, and/or eye contact	Irritant to eyes, skin, mucous membranes, and respiratory system. May be harmful by ingestion, skin absorption and inhalation	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	2-(N-Methylperfluorooctanesulfonamido)acetic acid N-MeFOSAA N-methylperfluorooctane sulfonamidoacetic acid 2-(N-methyl-perfluorooctane sulfonamido) acetic acid Glycine N-[(heptadecafluorooctyl)sulfonyl]-N-methyl- N-methyl perfluorooctane-sulfonamidoacetic acid NMeFOSAA MeFOSAA	2355-31-9	NA	NA NA	Groundwater Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	2,4-dinitrotoluene	121-14-2	PID	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	Irritation to the eyes, skin, respiratory system, Blue lips, or fingernails. Blue skin. Headache. Dizziness. Nausea. Confusion. Convulsions. Unconsciousness	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	2,6-Dinitrotoluene 2-Methyl-1,3-dinitrobenzene 2,6-DNT 2-methyl-1,3-dinitrobenzene 1-Methyl-2,6-dinitrobenzene 2,4-dinitromethylbenzene	606-20-2	PID	1.5 mg/m3	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	headache, weakness, nausea or dizziness, affect the nervous system causing fatigue, nausea, vomiting, drowsiness, and personality changes (irritability, anxiety, confusion and depression); shortness of breath and collapse. Can burn eyes and skin.	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	2-Butanone Ethyl methyl ketone MEK Methyl acetone Methyl ethyl ketone	78-93-3	PID	200 ppm 3000 ppm	Soil Groundwater Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose; headache; dizziness; vomiting; dermatitis	Eye: Irrigate immediately Skin: Water wash immediately Breathing: Fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.22	2-Methylnaphthalene β-methylnaphthalene	91-57-6	PID	NA NA	Groundwater Soil Vapor	inhalation, ingestion or skin, absorption, eye contact	irritation to the skin, eyes, mucous membranes, and upper respiratory tract. It may also cause headaches, nausea, vomiting, diarrhea, anemia, jaundice, euphoria, dermatitis, visual disturbances, convulsions and comatose	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	4,4′-DDD Dichlorodiphenyldichloroethane 1,1'-(2,2-Dichloroethylidene)bis (4-chlorobenzene) p,p'-DDD	72-54-8	None	NA NA	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; paresthesia tongue, lips, face; tremor; anxiety, dizziness, confusion, malaise (vague feeling of discomfort), headache, lassitude (weakness, exhaustion); convulsions; paresis hands; vomiting; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Acenaphthene 1,2-Dihydroacenaphthylene 1,8-Ethylenenaphthalene peri-Ethylenenaphthalene Naphthyleneethylene Tricyclododecapentaene	83-32-9	PID	NA NA	Soil	inhalation, ingestion, skin, and/or eye contact,	irritation to the skin, eyes, mucous membranes, and upper respiratory tract; If ingested, it can cause vomiting	Eye: Irrigate immediately Skin: Soap wash immediately, if redness or irritation develop, seek medical attention immediately Breathing: Move to fresh air Swallow: do not induce vomiting, seek medical attention immediately
1.3.1 – 1.3.22	Acenaphthylene Cycopental(de)naphthalene, Acenaphthalene	208-96-8	PID	NA NA	Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the skin, eyes, mucous membranes, and upper respiratory tract	Eye: Irrigate immediately, seek medical attention immediately, Skin: Soap wash immediately, if redness or irritation develop, seek medical attention immediately Breathing: Move to fresh air Swallow: do not induce vomiting, seek medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Acetone Dimethyl ketone Ketone propane 2-Propanone 3-Hexen-2-one	67-64-1	PID	1000 ppm 2500 ppm	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, nose, throat; headache, dizziness, central nervous system depression; dermatitis	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Aldrin 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-endo-1,4-exo-5,8-dimethanonaphthalene HHDN Octalene	309-00-2	PID	0.25 ppm 5 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	headache, dizziness; nausea, vomiting, malaise (vague feeling of discomfort); myoclonic jerks of limbs; colonic, tonic convulsions; coma; hematuria (blood in the urine), azotemia; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Alpha-BHC alpha-Hexachlorocyclohexane -alpha,2-alpha,3-beta,4-alpha,5-beta,6-beta-Hexachlorocyclohexane alpha-1,2,3,4,5,6-Hexachlorocyclohexane alpha-Benzenehexachloride α-1,2,3,4,5,6-hexachlorocyclohexane α-HCH α-Benzenehexachloride alpha-hexacloran(e) alpha-Lindane Alpha Hexachlorocyclohexane	319-84-6	PID	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane possible carcinogenic, effects to liver, blood, and central nervous system	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Alpha-Chlordane Alpha Chlordane a-Chlordane	5103-71-9	None	0.5 mg/m3 100 mg/m3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	Blurred vision; confusion; ataxia, delirium; cough; abdominal pain, nausea, vomiting, diarrhea; irritability, tremor, convulsions; anuria	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Aluminum	7429-90-5	None	0.5 mg/m3 50 mg/m3	Soil	inhalation, skin, and/or eye contact	irritation to the eyes, skin, respiratory system	Eye: Irrigate immediately Breathing: Fresh air
1.3.1 – 1.3.22	Ammonia Nitrogen, Ammonia	7664-41-7	None	50 ppm 300 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, respiratory system	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Anthracene	120-12-7	PID	0.2 mg/m3 80 mg/m3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	irritation to the skin, eyes, mucous membranes, and upper respiratory tract, abdominal pain if ingested.	Eye: Irrigate immediately, seek medical attention immediately, Skin: Soap wash immediately, Breathing: Move to fresh air, refer to medical attention. Swallow: refer to medical attention

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Antimony	7440-36-0	None	0.5 mg/m3 50 mg/m3	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation skin, dermatitis; resp distress; diarrhea; muscle tremor, convulsions; possible gastrointestinal tract	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Aroclor 1254	11097-69-1	None	0.5 mg/m3 5 mg/m3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, chloracne	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Arsenic	NA	None	0.5 mg/m3 NA	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation skin, dermatitis; resp distress; diarrhea; muscle tremor, convulsions; possible gastrointestinal tract	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Barium	10022-31-8	None	0.5 mg/m3 50 mg/m3	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, upper respiratory system; skin, burns; gastroenteritis; muscle spasm; slow pulse	Eye: Irrigate immediately Skin: Water flush immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Benzene Benzol Phenyl hydride Alkyl benzene isomers	71-43-2	PID	3.19 mg/m3 1,595 mg/mg3	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, respiratory system; dizziness; headache, nausea, staggered gait; lassitude (weakness, exhaustion) [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Benzo(a)anthracene Benzanthracene Benzanthrene 1,2-Benzanthracene Benzo[b]phenanthrene Tetraphene	56-55-3	PID	0.2 mg/m3 80 mg/m3 (Coal Pitch Tar)	Groundwater Soil	inhalation, skin, or eye contact, ingestion	dermatitis, bronchitis, [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Benzo(a)pyrene	50-32-8	PID	0.2 mg/m3 80 mg/m3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	dermatitis, bronchitis, [potential occupational carcinogen]	Eye: Irrigate immediately, seek medical attention Skin: Soap wash immediately. Breathing: move to fresh air. Swallow: Induce vomiting if conscious, seek medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Benzo(b)fluoranthene	205-99-2	PID	0.2 mg/m3 80 mg/m3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.22	Benzo(g,h,i)fluoranthene Benzo[ghi]fluoranthene 203-12-3 BENZO(GHI)FLUORANTHENE pentacyclo[8.8.0.02,7.03,17.013,18]octadeca-1(10),2(7),3,5,8,11,13(18),14,16-nonaene 2,13-Benzofuranthene 2,13-Benzofluoranthene	203-12-3	NA	NA NA	Soil	inhalation, skin, or eye contact, ingestion	dermatitis, bronchitis, [potential occupational carcinogen]	Eye: Irrigate immediately, seek medical attention Skin: Soap wash immediately. Breathing: move to fresh air. Swallow: Induce vomiting if conscious, seek medical attention immediately
1.3.1 – 1.3.22	Benzo(g,h,i)perylene Benzo(ghi)perylene	191-24-2	PID	0.2 mg/m3 80 mg/m3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Benzo(k)fluoranthene	207-08-9	PID	0.2 mg/m3 80 mg/m3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.22	Beryllium	7440-41-7	None	0.002 mg/m3 4 mg/m3	Soil	inhalation, skin, and/or eye contact	berylliosis (chronic exposure): anorexia, weight loss, lassitude (weakness, exhaustion), chest pain, cough, clubbing of fingers, cyanosis, pulmonary insufficiency; irritation to the eyes; dermatitis; [potential occupational carcinogen]	Eye: Irrigate immediately Breathing: Fresh air
1.3.1 – 1.3.22	Beta BHC Beta Hexachlorocyclohexane 1-alpha,2-beta,3-alpha,4-beta,5-alpha,6-beta-Hexachlorocyclohexane beta-1,2,3,4,5,6-Hexachlorocyclohexane Beta-BHC	319-85-7	None	NA NA	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; paresthesia tongue, lips, face; tremor; anxiety, dizziness, confusion, malaise (vague feeling of discomfort), headache, lassitude (weakness, exhaustion); convulsions; paresis hands; vomiting; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Beta-Endosulfan Beta Endosulfan Endosulfan II (beta) Endosulfan II	33213-65-9	None	None	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation skin; nausea, confusion, agitation, flushing, dry mouth, tremor, convulsions, headache; in animals: kidney, liver injury; decreased testis weight
1.3.1 – 1.3.22	Bis(2-ethylhexyl)phthalate Bis(2-Ethylhexyl) Phthalate Di-sec octyl phthalate DEHP Di(2-ethylhexyl)phthalate Octyl phthalate bis(2-ethylexyl)phthalate	117-81-7	None	5 mg/m3 5000 mg/m3	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, mucous membrane; in animals: liver damage; teratogenic effects; [potential occupational carcinogen	Eye: Irrigate immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Bromide	24959-67-9	None	0.1 ppm 3 ppm	Groundwater	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, respiratory system	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Cadmium	7440-43-9	None	0.005 mg/m3 9 mg/m3	Soil	inhalation, ingestion	pulmonary edema, dyspnea (breathing difficulty), cough, chest tightness, substernal (occurring beneath the sternum) pain; headache; chills, muscle aches; nausea, vomiting, diarrhea; anosmia (loss of the sense of smell), emphysema, proteinuria, mild anemia; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Calcium	7440-70-2	None	NA	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, upper resp tract; ulcer, perforation nasal septum; pneumonitis; dermatitis	Eye: Irrigate immediately Skin: Water flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Carbazole 9-azafluorene Dibenzopyrrole Diphenylenimine diphenyleneimide	86-74-8	None	NA NA	Soil	inhalation, skin absorption (liquid), skin, and/or eye contact	irritation to eyes and skin, respiratory irritation	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Carbon disulfide	75-15-0	PID	20 ppm 500 ppm	Soil Groundwater Vapor	inhalation, skin, or eye contact, ingestion	irritation to the eyes, skin, respiratory system	Eye: Irrigate immediately (liquid) Skin: Water flush immediately (liquid) Breathing: Respiratory support
1.3.1 – 1.3.22	Carbon tetrachloride Carbon chloride Carbon tet Freon® 10 Halon® 104 Tetrachloromethane	56-23-5	PID	10 ppm 200 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; central nervous system depression; nausea, vomiting; liver, kidney injury; drowsiness, dizziness, incoordination; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Chlordane Chlordan Chlordano 1,2,4,5,6,7,8,8-Octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindane Total Chlordane	57-74-9	None	0.5 mg/m3 100 mg/m3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	Blurred vision; confusion; ataxia, delirium; cough; abdominal pain, nausea, vomiting, diarrhea; irritability, tremor, convulsions; anuria	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Chloride	16887-00-6	None	1 ppm 10 ppm	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, respiratory system	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Chlorobenzene benzene chloride monochlorobenzene Phenyl chloride Chlorobenzol MCB	108-90-7	PID	75 ppm 1000 ppm	Groundwater Soil Vapor	inhalation, skin, or eye contact, ingestion	irritation to the eyes, skin, nose; drowsiness, incoordination; central nervous system depression; in animals: liver, lung, kidney injury	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Chloroform Methane trichloride Trichloromethane Chloro-3-methyl phenol	67-66-3	None	50 ppm 500 ppm	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; dizziness, mental dullness, nausea, confusion; headache, lassitude (weakness, exhaustion); anesthesia; enlarged liver; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Chromium Total Chromium Chromium, Total	7440-47-3	None	1.0 mg/m3 250 mg/m3	Groundwater Soil	inhalation absorption ingestion	irritation to eye, skin, and respiratory	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Chrysene Benzo[a]phenanthrene 1,2-Benzphenanthrene	218-01-9	PID	0.2 mg/m3 80 mg/m3 (Coal Pitch Tar)	Groundwater Soil	inhalation, absorption, ingestion, consumption	irritation to eye, skin, and respiratory, gastrointestinal irritation nausea, vomit, diarrhea [potential occupational carcinogen]	Eyes: Irrigate immediately Skin: Soap wash promptly. Breath: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	cis-1,2-Dichloroethylene cis-1,2-Dichloroethene	156-59-2	NA	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	Irritant to eyes, skin, mucous membranes, and respiratory system. May be harmful by ingestion, skin absorption and inhalation	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Cobalt	7440-48-4	None	0.1mg/m3 20 mg/m3	Soil	inhalation, ingestion, skin, and/or eye contact	Cough, dyspnea (breathing difficulty), wheezing, decreased pulmonary function; weight loss; dermatitis; diffuse nodular fibrosis; resp hypersensitivity, asthma	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Copper	7440-50-8	None	1.0 mg/m3 100 mg/m3	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, nose, metallic taste; dermatitis; anemia	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Cumene Cumol Isopropylbenzene 2-Phenyl propane 1-methylethy lbenzene Isopropyl Benzene	98-82-8	PID	50 ppm 900 ppm	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; dermatitis; headache, narcosis, coma	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Cyanide	57-12-5	None	5 mg/m3 25 mg/m3	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	Exposure to cyanide can cause weakness, headaches, confusion, dizziness, fatigue, anxiety, sleepiness, nausea and vomiting. Breathing can speed up then become slow and gasping. Coma, and convulsions also occur. If copious amounts of cyanide have been absorbed by the body, the person usually collapses, and death can occur very quickly. Long-term exposure to lower levels of cyanide can cause skin, and nose irritation, itching, rashes and thyroid changes.	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	DDE 4,4-DDE 4,4′-DDE 1,1-bis-(4-chlorophenyl)-2,2-dichloroethene Dichlorodiphenyldichloroethylene p,p'-DDE	72-55-9	None	NA NA	Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	Oral ingestion of food is the primary source of exposure for the general population. Acute and chronic ingestion may cause nausea, vomiting, diarrhea, stomach pain, headache, dizziness, disorientation, tingling, sensation, kidney damage, liver damage, convulsions, coma, and death. 4,4' DDE may cross the placenta and can be excreted in breast milk	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	DDT 4,4-DDT 4,4′-DDT p,p′-DDT Dichlorodiphenyltrichloroethane 1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane	50-29-3	None	1 mg/m3 500 mg/m3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; paresthesia tongue, lips, face; tremor; anxiety, dizziness, confusion, malaise (vague feeling of discomfort), headache, lassitude (weakness, exhaustion); convulsions; paresis hands; vomiting; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Delta BHC Delta-BHC Delta-hexachlorocyclohexane Delta Hexachlorocyclohexane	319-86-8	None	0.5 mg/m3 50 mg/m3	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; headache; nausea; colonic convulsions; resp difficulty; cyanosis; aplastic anemia; muscle spasm; in animals: liver, kidney damage	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Dibenz(a,h)anthracene Dibenzo(a,h)anthracene Dibenzo[a,h]anthracene	53-70-3	PID	0.2 mg/m3 80 mg/m3 (Coal Pitch Tar)	Groundwater Soil	inhalation, absorption, ingestion, consumption	irritation to eyes, skin, respiratory, and digestion [potential occupational carcinogen]	Eyes: Irrigate immediately Skin: Soap wash promptly. Breath: Respiratory support PID Swallow: Medical attention immediately
1.3.1 – 1.3.22	Dibenzofuran	132-64-9	None	NA NA	Soil	inhalation, absorption	irritation to eyes, and skin	Eyes: Irrigate immediately Skin: Soap wash promptly.

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Dibutyl phthalate Di-n-butyl phthalate Butyl phthalate n-Butyl phthalate 1,2-Benzenedicarboxylic acid dibutyl ester o-Benzenedicarboxylic acid dibutyl ester DBP Palatinol C, Elaol Dibutyl-1,2-benzene-dicarboxylate Di-n-butylphthalate	84-74-2	None	5 mg/m3 4000 mg/m3	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, upper respiratory system, stomach	Eye: Irrigate immediately Skin: Wash regularly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Dieldrin HEOD 1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo exo-5,8-dimethanonaphthalene	60-57-1	PID	0.25 mg/m3 50 mg/m3	Groundwater Soil Water	inhalation, skin absorption, ingestion, skin, and/or eye contact	headache, dizziness; nausea, vomiting, malaise (vague feeling of discomfort), sweating; myoclonic limb jerks; colonic, tonic convulsions; coma; [potential occupational carcinogen]; in animals: liver, kidney damage	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Diesel Fuel automotive diesel fuel oil No. 2 distillate diesoline diesel oil diesel oil light diesel oil No. 1-D summer diesel	68334-30-5	PID	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; burning sensation in chest; headache, nausea, lassitude (weakness, exhaustion), restlessness, incoordination, confusion, drowsiness; vomiting, diarrhea; dermatitis; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Di-n-octyl phthalate Di-n-cotylphthalate Di-n-octylphthalate Di-sec octyl phthalate Dioctyl phthalate DEHP, Di(2-ethylhexyl)phthalate, DOP, bis-(2-Ethylhexyl)phthalate, Octyl phthalate	117-84-0	None	5 mg/m3 5000 mg/m3	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, mucous membrane; in animals: liver damage; teratogenic effects; [potential occupational carcinogen]	Eye: Irrigate immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Endosulfan I Alpha Endosulfan	959-98-8	None	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation skin; nausea, confusion, agitation, flushing, dry mouth, tremor, convulsions, headache; in animals: kidney, liver injury; decreased testis weight	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Endosulfan sulfate 1,4,5,6,7,7-Hexachloro-5-norbornene-2,3-dimethanol, cyclic sulfate 6,7,8,9,10,10-hexachloro01,5,5a,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3,3-dioxide	1031-07-8	None	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	Hypersensitive to stimulation, sensation of prickling, tingling, or creeping on skin. Headache, dizziness, nausea, vomiting, incoordination, tremor, mental confusion, hyperexcitable state. In severe cases: convulsions, seizures, coma, and respiratory depression.	Eye: Irrigate immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Endrin 1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-endo,endo-5,8-dimethanonaphthalene; Hexadrin	72-20-8	None	0.1 mg/m3 2 mg/m3	Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	epileptiform convulsions; stupor, headache, dizziness; abdominal discomfort, nausea, vomiting; insomnia; aggressiveness, confusion; drowsiness, lassitude (weakness, exhaustion); anorexia; in animals: liver damage	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Ethyl benzene Ethylbenzene Ethylbenzol Phenylethane	100-41-4	PID	435 mg/m3 3,472 mg/m3	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; headache; dermatitis; narcosis, coma	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Fluoranthene Benzo(j,k)fluorene	206-44-0	PID	0.2 mg/m3 80 mg/m3 (Coal Pitch Tar)	Groundwater Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Fluorene	86-73-7	PID	0.2 mg/m3 80 mg/m3 (Coal Pitch Tar)	Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention
1.3.1 – 1.3.22	Fuel Oil No. 2	68476-30-2	PID	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; burning sensation in chest; headache, nausea, lassitude (weakness, exhaustion), restlessness, incoordination, confusion, drowsiness; vomiting, diarrhea; dermatitis; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	gamma-Chlordane Gamma Chlordane y-Chlordane	5566-34-7	None	0.5 mg/m3 100 mg/m3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	Blurred vision; confusion; ataxia, delirium; cough; abdominal pain, nausea, vomiting, diarrhea; irritability, tremor, convulsions; anuria	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Gasoline	8006-61-9	PID	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; dermatitis; headache, lassitude (weakness, exhaustion), blurred vision, dizziness, slurred speech, confusion, convulsions; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Helium	7440-59-7	Helium Detector	NA NA	NA	inhalation	dizziness, headache, and nausea	Breathing: Respiratory support
1.3.1 – 1.3.22	Heptachlor	76-44-8	None	0.5 mg/m3 35 mg/m3	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	In animals: tremor, convulsions; liver damage; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Hexachlorobenzene Perchlorobenzene Pentachlorophenylchloride Benzene hexachloride Phenyl perchloryl HCB BHC	118-74-1	NA	NA NA	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	Irritating to eyes, skin, and mucous membranes. Prolonged periods of ingestion may cause cutaneous porphyria	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Hexavalent Chromium Chromium VI Chromium, Hexavalent	18540-29-9	None	1.0 mg/m3 250 mg/m3	Groundwater Soil	inhalation absorption ingestion	irritation to eye, skin, and respiratory	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Indeno(1,2,3-cd)pyrene Indeno(1,2,3-c,d)Pyrene Indeno[1,2,3-cd]Pyrene	193-39-5	None	0.2 mg/m3 80 mg/m3 (Coal Pitch Tar)	Groundwater Soil	inhalation, absorption, ingestion, consumption	irritation to eyes, skin, respiratory, and digestion [potential occupational carcinogen]	Eyes: Irrigate immediately Skin: Soap wash promptly. Breath: Respiratory support Swallow: Medical attention immediately, wash mouth with water
1.3.1 – 1.3.22	Iron	7439-89-6	None	10 mg/m3 NA	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; abdominal pain, diarrhea, vomiting	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Lead	7439-92-1	None	0.050 mg/m3 100 mg/m3	Groundwater Soil	inhalation, ingestion, skin, and/or eye contact	lassitude (weakness, exhaustion), insomnia; facial pallor; anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; paralysis wrist, ankles; encephalopathy; kidney disease; irritation to the eyes; hypertension	Eye: Irrigate immediately Skin: Soap flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Lindane Gamma BHC HCH ã-Hexachlorocyclohexane gamma isomer of 1,2,3,4,5,6-Hexachlorocyclohexane gamma-Hexachlorocyclohexane	58-89-9	None	0.5 mg/m3 50 mg/m3	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; headache; nausea; colonic convulsions; resp difficulty; cyanosis; aplastic anemia; muscle spasm; in animals: liver, kidney damage	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Magnesium	7439-95-4	None	15 mg/m3 NA	Soil	inhalation, skin, and/or eye contact	irritation to the eyes, skin, respiratory system; cough	Eye: Irrigate immediately Breathing: Fresh air
1.3.1 – 1.3.22	Manganese	7439-96-5	None	5 mg/m3 500 mg/m3	Groundwater Soil	inhalation, ingestion	aerosol is irritating to the respiratory tract	Eye: Irrigate immediately Skin: Soap flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	m-Cresol meta-Cresol 3-Cresol m-Cresylic acid 1-Hydroxy-3-methylbenzene 3-Hydroxytoluene 3-Methylphenol 3-Methylphenols	108-39-4	PID	5 ppm 250 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; central nervous system effects: confusion, depression, resp failure; dyspnea (breathing difficulty), irregular rapid respiration, weak pulse; eye, skin, burns; dermatitis; lung, liver, kidney, pancreas damage	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Mercury	7439-97-6	None	0.1 mg/m3 10 mg/m3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor, insomnia, irritability, headache, lassitude (weakness, exhaustion); stomatitis, salivation; gastrointestinal disturbance, anorexia, weight loss; proteinuria	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Methane Tetrahydridocarbon Carbane Marsh Gas Natural Gas Carbon tetrahydride Hydrogen carbide	74-82-8	PID	NA NA	Groundwater Soil Vapor	inhalation, skin, and/or eye contact (liquid)	dizziness, confusion, excitation, asphyxia; liquid: frostbite	Eye: Frostbite Skin: Frostbite Breathing: Respiratory support

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Methyl Acetate	79-20-9	PID	200 ppm 3100 ppm	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; headache, drowsiness; optic nerve atrophy; chest tightness; in animals: narcosis	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Methyl chloroform Chlorothene 1,1,1-Trichloroethane 1,1,1-Trichloroethane-(stabilized) 1,1,1-TCA 1,1,1-Trichbroethane TCA	71-55-6	PID	350 ppm 700 ppm	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin; headache, lassitude (weakness, exhaustion), central nervous system depression, poor equilibrium; dermatitis; cardiac arrhythmias; liver damage	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention
1.3.1 – 1.3.22	Methyl tert-butyl ether MTBE Methyl tertiary-butyl ether Methyl t-butyl ether tert-Butyl methyl ether tBME tert-BuOMe Methyl tert butyl ether	1634-04-4	PID	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; burning sensation in chest; headache, nausea, lassitude (weakness, exhaustion), restlessness, incoordination, confusion, drowsiness; vomiting, diarrhea; dermatitis; chemical pneumonitis (aspiration liquid)	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Methylcyclohexane Methyl cyclohexane Methylcyclohexane Hexahydrotoluene Cyclohexylmethane Toluene hexahydride	108-87-2	PID	500 ppm 1200 ppm	Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; dizziness, drowsiness; in animals: narcosis	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Methylene Chloride Dichloromethane Methylene dichloride	75-09-2	PID	25 ppm 2300 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; lassitude (weakness, exhaustion), drowsiness, dizziness; numb, tingle limbs; nausea; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Naphthalene Naphthalin Tar camphor White tar	91-20-3	PID	50 mg/m3 250 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes; headache, confusion, excitement, malaise (vague feeling of discomfort); nausea, vomiting, abdominal pain; irritation bladder; profuse sweating; hematuria (blood in the urine); dermatitis, optical neuritis	Eye: Irrigate immediately Skin: Molten flush immediately/solid-liquid soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	n-Butylbenzene Butylbenzene 1-phenylbutane	104-51-8	PID	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin; dry nose, throat; headache; low blood pressure, tachycardia, abnormal cardiovascular system stress; central nervous system, hematopoietic depression; metallic taste; liver, kidney injury	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Nickel	7440-02-0	None	NA 10 mg/m3	Groundwater Soil	ion, ingestion, skin, and/or eye contact	sensitization dermatitis, allergic asthma, pneumonitis; [potential occupational carcinogen]	Skin: Water flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Nitrate	14797-55-8	None	NA NA	Groundwater Soil	inhalation, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane	Eye: Irrigate immediately Skin: Soap wash Breathing: Fresh air
1.3.1 – 1.3.22	Nitrite dioxidonitrate	14797-65-0	None	NA NA	Groundwater	NA	NA	NA
1.3.1 – 1.3.22	N-Nitrosodi-n-propylamine N-nitroso-di-n-propylamine	621-64-7	None	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, respiratory system	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Non-Flammable Gas Mixture CALGAS (Equipment Calibration Gas : Oxygen Methane Hydrogen Sulfide Carbon Monoxide Nitrogen	7782-44-7 74-82-8 7783-08-4 830-08-0 7727-37-9	Multi-Gas PID	NA/NA NA/NA 10/100 ppm 50/1200 ppm NA/NA	NA	inhalation	dizziness, headache, and nausea	Breathing: Respiratory support
1.3.1 – 1.3.22	Non-Flammable Gas Mixture CALGAS (Equipment Calibration Gas : Oxygen Isobutylene Nitrogen	7782-44-7 115-11-7 7727-37-9	PID	NA/NA NA/NA NA/NA	NA	inhalation	dizziness, headache, and nausea	Breathing: Respiratory support
1.3.1 – 1.3.22	n-Propylbenzene Isocumene Propylbenzene 1-Phenylpropane 1-Propylbenzene Phenylpropane Propylbenzene-n	103-65-1	PID	NA NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin; dry nose, throat; headache; low blood pressure, tachycardia, abnormal cardiovascular system stress; central nervous system, hematopoietic depression; metallic taste; liver, kidney injury	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	o-Cresol ortho-Cresol 2-Cresol o-Cresylic acid 1-Hydroxy-2-methylbenzene 2-Hydroxytoluene 2-Methyl phenol 2-Methylphenol	95-48-7	PID	5 ppm 250 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; central nervous system effects: confusion, depression, resp failure; dyspnea (breathing difficulty), irregular rapid respiration, weak pulse; eye, skin, burns; dermatitis; lung, liver, kidney, pancreas damage	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	p-Cresol para-Cresol 4-Cresol p-Cresylic acid 1-Hydroxy-4-methylbenzene 4-Hydroxytoluene 4-Methylphenol 4-Methylphenols	106-44-5	PID	5 ppm 250 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane; central nervous system effects: confusion, depression, resp failure; dyspnea (breathing difficulty), irregular rapid respiration, weak pulse; eye, skin, burns; dermatitis; lung, liver, kidney, pancreas damage	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Pentachlorophenol PCP; Penta; 2,3,4,5,6-Pentachlorophenol	87-86-5	PID	0.5 mg/m3 2.5 mg/m3	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, nose, throat; sneezing, cough; lassitude (weakness, exhaustion), anorexia, weight loss; sweating; headache, dizziness; nausea, vomiting; dyspnea (breathing difficulty), chest pain; high fever; dermatitis	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Perfluoro-3-methoxypropanoic Acid 2,2,3,3-tetrafluoro-3-(trifluoromethoxy)-propanoic acid PFMPA	377-73-1	NA	NA NA	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	Irritant to eyes, skin, mucous membranes, and respiratory system, irritant to digestive track	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Perfluorobutanesulfonic acid FC-98 Nonaflate Nonafluorobutanesulphonic acid Perfluorobutanesulfonic Acid Perfluorobutane sulfonate PFBS	375-73-5	NA	None None	Groundwater	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Perfluorobutanoic Acid Heptafluorobutyric acid Heptafluorobutanoic acid Perfluorobutyric acid PFBA	375-22-4	NA	None None	Groundwater	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Perfluorodecanoic acid PFDA	335-76-2	NA	None None	Groundwater	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Perfluoroheptanoic acid Perfluoroheptanoic acid Tridecafluoroheptanoic acid PFHpA	375-85-9	NA	None None	Groundwater	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Perfluorohexanesulfonic Acid perfluorohexanesulfonate perfluorohexanesulfonic acid Perfluorohexane-1-sulphonic acid PFHxS	355-46-4	NA	None None	Groundwater Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Perfluorohexanoic Acid PFHxA	307-24-4	NA	None None	Groundwater	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Perfluoronoanoic Acid Perfluorononanoic Acid PFNA perfluoro-n-nonanoic acid perfluorononanoate	375-95-1	NA	None None	Groundwater	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Perfluorooctanesulfonic Acid PFOS	1763-23-1	NA	None None	Groundwater	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Perfluorooctanoic Acid PFOA pentadecafluorooctanoic acid perfluorooctanoate perfluorocaprylic acid	335-67-1	NA	None None	Groundwater	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Perfluoropentanesulfonic Acid Perfluoropentanesulfonic acid 1,1,2,2,3,3,4,4,5,5,5-Undecafluoropentane-1-sulfonic acid 1,1,2,2,3,3,4,4,5,5,5-Undecafluoropentane-1-sulphonic acid Perfluoropentane-1-sulfonic acid perfluoropentane-1-sulphonic acid Perfluoropentanesulphonic acid UNDECAFLUOROPENTANE-1-SULFONIC ACID PFPeS	2706-91-4	NA	None None	Groundwater Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Perfluoropentanoic Acid PFPeA	2706-90-3	NA	None None	Groundwater	inhalation, skin, or eye contact, ingestion	irritation to eyes with eye damage, skin, causing rash, redness or burning, irritation to nose, throat, and lungs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Phenanthrene	85-01-8	PID	0.2 mg/m3 80 mg/m3 (Coal Pitch Tar)	Groundwater Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately
1.3.1 – 1.3.22	Phenol Carbolic acid Hydroxybenzene, Monohydroxybenzene Phenyl alcohol Phenyl hydroxide	108-95-2	PID	5 ppm 250 ppm	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, nose, throat; anorexia, weight loss; lassitude (weakness, exhaustion), muscle ache, pain; dark urine, skin, burns; dermatitis; tremor, convulsions, twitching	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Potassium	7440-09-7	None	NA NA	Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact inhalation, ingestion, skin, and/or eye contact	eye: Causes eye burns. Skin: Causes skin, burns. Reacts with moisture in the skin, to form potassium hydroxide and hydrogen with heat. ingestion: Causes gastrointestinal tract burns. inhalation: May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. Causes chemical burns to the respiratory tract. inhalation may be fatal because of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema.	Eyes: Get medical aid immediately Skin: Get medical aid immediately. Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Ingestion: If victim is conscious and alert, give 2-4 full cups of milk or water. Get medical aid immediately. inhalation: Get medical aid immediately.
1.3.1 – 1.3.22	Pyrene benzo[def]phenanthrene	129-00-0	PID	0.2 mg/m3 80 mg/m3 (Coal Pitch Tar)	Groundwater Soil	inhalation, skin, or eye contact, ingestion	irritation to eyes and skin, respiratory irritation (dizziness, weakness, fatigue, nausea, headache)	Eye: Irrigate immediately, refer to medical attention Skin: Soap wash immediately Breathing: move to fresh air Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	sec-Butylbenzene 2-phenylbutane	135-98-8	PID	10 ppm 100 ppm	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, nose, throat. inhalation: nausea or vomiting	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Selenium	7782-49-2	None	1 mg/m3 0.2 mg/m3	Soil	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; visual disturbance; headache; chills, fever; dyspnea (breathing difficulty), bronchitis; metallic taste, garlic breath, gastrointestinal disturbance; dermatitis; eye, skin, burns; in animals: anemia; liver necrosis, cirrhosis; kidney, spleen damage	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Silver	7440-22-4	None	0.01mg/m3 10 mg/m3	Soil	inhalation, ingestion, skin, and/or eye contact	blue-gray eyes, nasal septum, throat, skin; irritation, ulceration skin; gastrointestinal disturbance	Eye: Irrigate immediately Skin: Water flush Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Silvex 2-(2,4,5-Trichlorophenoxy)propionic acid Fenoprop 2,4,5-TP Acid 2,4,5-TP	93-72-1	PID	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, nose, respiratory system; headache, lassitude (weakness, exhaustion), dizziness, confusion, malaise (vague feeling of discomfort), drowsiness, unsteady gait; narcosis; defatting dermatitis; liver injury; reproductive effects	Eye: Irrigate immediately Skin: Water flush Breathing: Respiratory support Swallow: Medical attention
1.3.1 – 1.3.22	Sodium	7440-23-5	None	NA NA	Groundwater Soil	ion, ingestion, skin, and/or eye contact	sensitization dermatitis, allergic asthma, pneumonitis; [potential occupational carcinogen]	Skin: Water flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Sulfate	14808-79-8	None	NA NA	Groundwater Soil	inhalation, skin, and/or eye contact	irritation to the eyes, skin, mucous membrane	Eye: Irrigate immediately Skin: Soap wash Breathing: Fresh air
1.3.1 – 1.3.22	Tert-Butyl Alcohol Tertiary Butyl Alcohol Tert-Butanol Butyl alcohol 2-Methyl-2-propanol Trimethyl carbinol Tert-Butyl Alcohol TBA	75-65-0	PID	100 ppm 1600 ppm	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; drowsiness, narcosis	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	tert-Butylbenzene t-Butylbenzene 2-Methyl-2-phenylpropane Pseudobutylbenzene	98-06-6	PID	10 ppm NA	Groundwater Soil Vapor	inhalation, ingestion, skin, and/or eye contact	eye, skin, irritation; dry nose, throat; headaches; low blood pressure, tachycardia; abnormal cardiovascular system; central nervous system depression; hematopoietic depression	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Tetrachloroethylene Perchlorethylene Perchloroethylene PCE Perk Tetrachlorethylene Tetrachloroethene	127-18-4	PID	100 ppm 150 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat, respiratory system; nausea; flush face, neck; dizziness, incoordination; headache, drowsiness; skin, erythema (skin, redness); liver damage; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Thallium	7440-28-0	None	0.1 mg/m3 15 mg/m3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	nausea, diarrhea, abdominal pain, vomiting; ptosis, strabismus; peri neuritis, tremor; retrosternal (occurring behind the sternum) tightness, chest pain, pulmonary edema; convulsions, chorea, psychosis; liver, kidney damage; alopecia; paresthesia legs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Toluene Methyl benzene Methyl benzol Phenyl methane Toluol	108-88-3	PID	200 ppm 500 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, nose; lassitude (weakness, exhaustion), confusion, euphoria, dizziness, headache; dilated pupils, lacrimation (discharge of tears); anxiety, muscle fatigue, paresthesia; dermatitis	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Total Organic Carbon TOC	7732-18-5	NA	NA NA	Groundwater Soil Vapor	NA	NA	NA
1.3.1 – 1.3.22	Total PCBs Chlorodiphenyl (42% chlorine) Aroclor® 1242 PCB Polychlorinated biphenyl	53469-21-9	None	0.5 mg/m3 5 mg/m3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, chloracne	Eye: Irrigate immediately Skin: Soap wash immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Total Xylenes Dimethylbenzene Xylol	1330-20-7	PID	100 ppm 900 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, nose, throat; dizziness, excitement, drowsiness, incoordination, staggering gait; corneal vacuolization; nausea, vomiting, abdominal pain; dermatitis	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Trichloroethylene Trichloroetheneylenes Ethylene trichloride TCE Trichloroethene Trilene	79-01-6	PID	100 ppm 1000 ppm	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin; headache, visual disturbance, lassitude (weakness, exhaustion), dizziness, tremor, drowsiness, nausea, vomiting; dermatitis; cardiac arrhythmias, paresthesia; liver injury; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Trivalent Chromium Chromium III Chromium, Trivalent	NA	None	1.0 mg/m3 250 mg/m3	Groundwater Soil	inhalation absorption ingestion	irritation to eye, skin, and respiratory	Eye: Irrigate immediately Skin: Soap wash Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Vanadium	7440-62-2	None	0.1 mg/m3 15 mg/m3	Groundwater Soil	inhalation, skin absorption, ingestion, skin, and/or eye contact	nausea, diarrhea, abdominal pain, vomiting; ptosis, strabismus; peri neuritis, tremor; retrosternal (occurring behind the sternum) tightness, chest pain, pulmonary edema; convulsions, chorea, psychosis; liver, kidney damage; alopecia; paresthesia legs	Eye: Irrigate immediately Skin: Water flush promptly Breathing: Respiratory support Swallow: Medical attention immediately

Task	Contaminant	CAS Number	Monitoring Device	PEL/ IDLH	Source of Concentration on Site	Route of Exposure	Symptoms	First Aid
1.3.1 – 1.3.22	Vinyl Chloride Chloroethene Chloroethylen Ethylene monochloride Monochloroethene Monochloroethylene VC Vinyl chloride monomer (VCM)	75-01-4	PID	1 ppm NA	Groundwater Soil Vapor	inhalation, skin, and/or eye contact (liquid)	lassitude (weakness, exhaustion); abdominal pain, gastrointestinal bleeding; enlarged liver; pallor or cyanosis of extremities; liquid: frostbite; [potential occupational carcinogen]	Eye: Frostbite Skin: Frostbite Breathing: Respiratory support
1.3.1 – 1.3.22	Vinylidene chloride 1,1-DCE 1,1-Dichloroethene 1,1-Dichloroethylene VDC Vinylidene chloride monomer Vinylidene dichloride	75-35-4	PID	NA NA	Groundwater Soil Vapor	inhalation, skin absorption, ingestion, skin, and/or eye contact	irritation to the eyes, skin, throat; dizziness, headache, nausea, dyspnea (breathing difficulty); liver, kidney disturbance; pneumonitis; [potential occupational carcinogen]	Eye: Irrigate immediately Skin: Soap flush immediately Breathing: Respiratory support Swallow: Medical attention immediately
1.3.1 – 1.3.22	Zinc	7440-62-2	None	15 mg/m3 500 mg/m3	Groundwater Soil	inhalation	chills, muscle ache, nausea, fever, dry throat, cough; lassitude (weakness, exhaustion); metallic taste; headache; blurred vision; low back pain; vomiting; malaise (vague feeling of discomfort); chest tightness; dyspnea (breathing difficulty), rales, decreased pulmonary function	Eye: Irrigate immediately Skin: Soap wash promptly Breathing: Respiratory support Swallow: Medical attention immediately

EXPLANATION OF ABBREVIATIONS

PID = Photoionization Detector
PEL = Permissible Exposure Limit (8-hour Time Weighted Average)
IDLH = Immediately Dangerous to Life and Health
ppm = part per million
mg/m^3 = milligrams per cubic meter
500 mg/m^3

TABLE 3
SUMMARY OF MONITORING EQUIPMENT

Instrument	Operation Parameters
Photoionization Detector (PID)	**Hazard Monitored:** Many organic and some inorganic gases and vapors. **Application:** Detects total concentration of many organic and some inorganic gases and vapors. Some identification of compounds is possible if more than one probe is measured. **Detection Method:** Ionizes molecules using UV radiation; produces a current that is proportional to the number of ions. **General Care/Maintenance:** Recharge or replace battery. Regularly clean lamp window. Regularly clean and maintain the instrument and accessories. **Typical Operating Time:** 10 hours. 5 hours with strip chart recorder.
Oxygen Meter	**Hazard Monitored:** Oxygen (O_2). **Application:** Measures the percentage of O_2 in the air. **Detection Method:** Uses an electrochemical sensor to measure the partial pressure of O_2 in the air and converts the reading to O_2 concentration. **General Care/Maintenance:** Replace detector cell according to manufacturer's recommendations. Recharge or replace batteries prior to explanation of the specified interval. If the ambient air is less than 0.5% C O_2, replace the detector cell frequently. **Typical Operating Time:** 8 – 12 hours.
Additional equipment (if needed, based on site conditions)	
Combustible Gas Indicator (CGI)	**Hazard Monitored:** Combustible gases and vapors. **Application:** Measures the concentration of combustible gas or vapor. **Detection Method:** A filament, usually made of platinum, is heated by burning the combustible gas or vapor. The increase in heat is measured. Gases and vapors are ionized in a flame. A current is produced in proportion to the number of carbon atoms present. **General Care/Maintenance:** Recharge or replace battery. Calibrate immediately before use. **Typical Operating Time:** Can be used for as long as the battery lasts, or for the recommended interval between calibrations, whichever is less.
Flame Ionization Detector (FID) with Gas Chromatography Option *(i.e., Foxboro Organic Vapor Analyzer (OVA))*	**Hazard Monitored:** Many organic gases and vapors (approved areas only). **Application:** In survey mode, detects the concentration of many organic gases and vapors. In gas chromatography (GC) mode, identifies and measures specific compounds. In survey mode, all the organic compounds are ionized and detected at the same time. In GC mode, volatile species are separated. **General Care/Maintenance:** Recharge or replace battery. Monitor fuel and/or combustion air supply gauges. Perform routine maintenance as described in the manual. Check for leaks. **Typical Operating Time:** 8 hours; 3 hours with strip chart recorder.
Potable Infrared (IR) Spectrophotometer	**Hazard Monitored:** Many gases and vapors. **Application:** Measures concentration of many gases and vapors in air. Designed to quantify one or two component mixtures. **Detection Method:** Passes different frequencies of IR through the sample. The frequencies absorbed are specific for each compound. **General Care/Maintenance:** As specified by the manufacturer.

Instrument	Operation Parameters
Direct Reading Colorimetric Indicator Tube	**Hazard Monitored:** Specific gas and vapors. **Application:** Measures concentration of specific gases and vapors. **Detection Method:** The compound reacts with the indicator chemical in the tube, producing a stain whose length or color change is proportional to the compound's concentration. **General Care/Maintenance:** Do not use a previously opened tube even if the indicator chemical is not stained. Check pump for leaks before and after use. Refrigerate before use to maintain a shelf life of about 2 years. Check expiration dates of tubes. Calibrate pump volume at least quarterly. Avoid rough handling which may cause channeling.
Aerosol Monitor	**Hazard Monitored:** Airborne particulate (dust, mist, fume) concentrations. **Application:** Measures total concentration of semi-volatile organic compounds, PCBs, and metals. **Detection Method:** Based on light-scattering properties of particulate matter. Using an internal pump, air sample is drawn into the sensing volume where near infrared light scattering is used to detect particles. **General Care/Maintenance:** As specified by the mfr. Also, the instrument must be calibrated with particulates of a size and refractive index similar to those to be measured in the ambient air.
Monitox	**Hazard Monitored:** Gases and vapors. **Application:** Measures specific gases and vapors. **Detection Method:** Electrochemical sensor specific for the chemical species in question. **General Care/Maintenance:** Moisten sponge before use; check the function switch; change the battery when needed.
Gamma Radiation Survey Instrument	**Hazard Monitored:** Gamma Radiation. **Application:** Environmental radiation monitor. **Detection Method:** Scintillation detector. **General Care/Maintenance:** Must be calibrated annually at a specialized facility. **Typical Operating Time:** Can be used for as long as the battery lasts, or for the recommended interval between calibrations, whichever is less.

TABLE 4
INSTRUMENTATION ACTION LEVELS

Photoionization Detector Action Levels	**Action Required**
Background to 5 parts per million (ppm)[1]	No respirator needed; no further action
>5ppm but </= 15 ppm at the perimeter of the work area	• Work temporarily halted and monitoring continues. • If instantaneous readings decrease below 5 ppm above background, work activities will resume with continued monitoring
>5ppm but </= 25 ppm at the downwind perimeter of the hot zone	• Work activities will be halted. • Source of vapors identified. • Corrective actions taken to abate emissions. • Continued monitoring. • Workers will don appropriate respirators and work can resume if vapor levels 200 feet downwind or the hot zone or half the distance to the nearest potential receptor or residential or commercial structure, whichever is less – but in no case less than 20 feet – is below 5 ppm above background for the 15-minute average
>25ppm at the parameter of the hot zone	Activities will shut down

Particulate Monitoring Action Levels	**Action Required**
Background to 100 micrograms per cubic meter (µg/m³)[2], no dust observed	No further action
Background to 100 µg/m³, dust observed leaving the work area	Dust suppression must be employed.
100 to 150 µg/m³ at the downwind parameter of the hot zone	• Work activities will be halted. • Source of dust identified. • Dust suppression activities initiated. • Corrective actions taken to abate emissions. • Continued monitoring. • Workers will don appropriate respirators. • Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM10 concentration to within 150 µg/m³ of the upwind level and in preventing visible dust migration.
>150 µg/m³ at the parameter of the hot zone	Activities will shut down

[1] VOC concentrations are 15-minute averages above site background (upwind parameter)
[2] Particulate concentrations are 15-minute averages above site background (upwind parameter)

TABLE 5
EMERGENCY NOTIFICATION LIST

ORGANIZATION	CONTACT	TELEPHONE
Local Police Department		911
Local Fire Department		911
Ambulance/Rescue Squad		911
Hospital	Montefiore Jack D. Weller Hospital/Einstein Campus	911 or 718-904-2800
Langan Incident Hotline		973-560-4699
Medical Treatment Hotline	WorkCare™	911 or 888-449-7757
Langan Environmental PM Langan Geotechnical PM Langan Site/Civil PM	Lexi Haley Samuel Singer Margie Hammell	332-208-2127 (cell) 718-810-4121 (cell) 646-574-7884 (cell)
Langan Construction Health and Safety Manager (HSM)	Tony Moffa	215-756-2523 (cell)
Langan Health & Safety Officer (HSO)	William Bohrer	410-984-3068 (cell)
Langan Field Team Leader (FTL)	To Be Determined	
Client's Representative	Christopher Jewett	401-475-8474
Site Supervisor	To Be Determined	
National Response Center (NRC)		800-424-8802
Chemical Transportation Emergency Center (Chemtrec)		800-424-9300
Center for Disease Control (CDC)		404-639-3534
EPA (RCRA Superfund Hotline)		800-424-9346
TSCA Hotline		202-554-1404
Poison Control Center		800-222-1222

Immediately following an injury, unless immediate emergency medical treatment is required, the injured employee must contact WorkCare - Incident Intervention® at 888-449-7787.

For all other incidents or near misses, unless emergency response is required, either the employee or a coworker must contact the Langan Incident Hotline at 973-560-4699.

TABLE 6
SUGGESTED FREQUENCY OF PHYSIOLOGICAL MONITORINGFOR FIT AND ACCLIMATED WORKERS[A]

Adjusted Temperature[b]	Normal Work Ensemble[c]	Impermeable Ensemble
90°F or above (32.2°C) or above	After each 45 min. of work	After each 15 min. of work
87.5°F (30.8°-32.2°C)	After each 60 min. of work	After each 30 min. of work
82.5°-87.5°F (28.1°-30.8°C)	After each 90 min. of work	After each 60 min. of work
77.5°-82.5°F (25.3°-28.1°C)	After each 120 min. of work	After each 90 min. of work
72.5°-77.5°F (22.5°-25.3°C)	After each 150 min. of work	After each 120 min. of work

a For work levels of 250 kilocalories/hour.

b Calculate the adjusted air temperature (ta adj) by using this equation: ta adj ^{o}F = ta ^{o}F + (13 x % sunshine). Measure air temperature (ta) with a standard mercury-in-glass thermometer, with the bulb shielded from radiant heat. Estimate percent sunshine by judging what percent time the sun is not covered by clouds that are thick enough to produce a shadow. (100 percent sunshine = no cloud cover and a sharp, distinct shadow; 0 percent sunshine = no shadows.)

c A normal work ensemble consists of cotton coveralls or other cotton clothing with long sleeves and pants.

TABLE 7

HEAT INDEX

	ENVIRONMENTAL TEMPERATURE (Fahrenheit)										
	70	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**	**115**	**120**
RELATIVE HUMIDITY	**APPARENT TEMPERATURE***										
0%	64	69	73	78	83	87	91	95	99	103	107
10%	65	70	75	80	85	90	95	100	105	111	116
20%	66	72	77	82	87	93	99	105	112	120	**130**
30%	67	73	78	84	90	96	104	113	123	**135**	**148**
40%	68	74	79	86	93	101	110	123	**137**	**151**	
50%	69	75	81	88	96	107	120	**135**	**150**		
60%	70	76	82	90	100	114	**132**	**149**			
70%	70	77	85	93	106	124	**144**				
80%	71	78	86	97	113	**136**					
90%	71	79	88	102	122						
100%	72	80	91	108							

*Combined Index of Heat and Humidity...what it "feels like" to the body
Source: National Oceanic and Atmospheric Administration

How to use Heat Index:
1. Across top locate Environmental Temperature
2. Down left side locate Relative Humidity
3. Follow across and down to find Apparent Temperature
4. Determine Heat Stress Risk on chart at right

Note: Exposure to full sunshine can increase Heat Index values by up to 15 degrees F.

Apparent Temperature	**Heat Stress Risk with Physical Activity and/or Prolonged Exposure**
90-105	Heat Cramps or Heat Exhaustion Possible
105-130	Heat Cramps or Heat Exhaustion Likely, Heat Stroke Possible
>130	Heatstroke Highly Likely

FIGURES

FIGURE 1
SITE LOCATION MAP

LANGAN

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Project	Figure Title	Project No.	Figure
PROPOSED BALLY'S CASINO - RING ROAD AT FERRY POINT PARK BRONX NEW YORK	SITE LOCATION MAP	170773001 Date 4/16/2025 Scale 1" = 2,000 feet Drawn By MG	1

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Path: \\langan.com\data\NYC\data9\170773001\Project Data\ArcGIS\APRX\170773001\170773001.aprx

FIGURE 2
HOSPITAL ROUTE PLAN

Hospital Location: **Montefiore Jack D. Weller Hospital/Einstein Campus**
1825 Eastchester Road
Bronx, New York
718-904-2800

START: 450 Hutchinson Parkway, Bronx, NY

1. Turn right onto Hutchinson River Pkwy
2. Take the I-678 N/Hutchinson River Pkwy ramp on the left to I-95/I-278
3. Merge onto I-678
4. Take exit 18 for E Tremont Ave toward Westchester Ave
5. Continue onto Ericson Pl
6. Turn left onto E Tremont Ave
7. Turn right onto Blondell Ave
8. Stay on Blondell Ave to turn right onto Eastchester Rd
9. Turn left onto Sackett Ave, destination will be on the right.

END: Montefiore Jack D. Weller Hospital/Einstein Campus, 1825 Eastchester Road, Bronx, NY

ATTACHMENTS

ATTACHMENT A

STANDING ORDERS

STANDING ORDERS

GENERAL

- No smoking, eating, or drinking in this work zone.
- Upon leaving the work zone, personnel will thoroughly wash their hands and face.
- Minimize contact with contaminated materials through proper planning of work areas and decontamination areas, and by following proper procedures. Do not place equipment on the ground. Do not sit on contaminated materials.
- No open flames in the work zone.
- Only properly trained and equipped personnel are permitted to work in potentially contaminated areas.
- Always use the appropriate level of personal protective equipment (PPE).
- Maintain close contact with your buddy in the work zone.
- Contaminated material will be contained in the Exclusion Zone (EZ).
- Report any unusual conditions.
- Work areas will be kept clear and uncluttered. Debris and other slip, trip, and fall hazards will be removed as frequently as possible.
- The number of personnel and equipment in the work zone will be kept to an essential minimum.
- Be alert to the symptoms of fatigue and heat/cold stress, and their effects on the normal caution and judgment of personnel.
- Conflicting situations which may arise concerning safety requirements and working conditions must be addressed and resolved quickly by the site HSO.

TOOLS AND HEAVY EQUIPMENT

- Do not, under any circumstances, enter or ride in or on any backhoe bucket, materials hoist, or any other device not specifically designed to carry passengers.
- Loose-fitting clothing or loose long hair is prohibited around moving machinery.
- Ensure that heavy equipment operators and all other personnel in the work zone are using the same hand signals to communicate.
- Drilling/excavating within 10 feet in any direction of overhead power lines is prohibited.
- The locations of all underground utilities must be identified and marked out prior to initiating any subsurface activities.
- Check to ensure that the equipment operator has lowered all blades and buckets to the ground before shutting off the vehicle.
- If the equipment has an emergency stop device, have the operator show all personnel its location and how to activate it.
- Help the operator ensure adequate clearances when the equipment must negotiate in tight quarters; serve as a signal operator to direct backing, as necessary.
- Ensure that all heavy equipment that is used in the Exclusion Zone is kept in that zone until the job is done and that such equipment is completely decontaminated before moving it into the clean area of the work zone.
- Samplers must not reach into or get near rotating equipment such as the drill rig. If personnel must work near any tools that could rotate, the equipment operator must completely shut down the rig prior to initiating such work. It may be necessary to use a remote sampling device.

ATTACHMENT B

DECONTAMINATION PROCEDURES

PERSONNEL DECONTAMINATION

LEVEL C DECONTAMINATION

Station 1:	Equipment Drop	1. Deposit equipment used on-site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths. Segregation at the drop reduces the probability of cross-contamination. During hot weather operations, cool down stations may be set up within this area.
Station 2:	Outer Garment, Boots, and Gloves Wash and Rinse	2. Scrub outer boots, outer gloves, and chemical-resistant splash suit with decon solution or detergent and water. Rinse off using copious amounts of water.
Station 3:	Outer Boot and Glove Removal	3. Remove outer boots and gloves. Deposit in container with plastic liner.
Station 4:	Canister or Mask Change	4. If worker leaves Exclusion Zone to change canister (or mask), this is the last step in the decontamination procedure. Worker's canister is exchanged, new outer gloves and boot covers donned, joints taped, and worker returns to duty.
Station 5:	Boot, Gloves and Outer Garment Removal	5. Boots, chemical-resistant splash suit, inner gloves removed and deposited in separate containers lined with plastic.
Station 6:	Face piece Removal	6. Face piece is removed (avoid touching face with fingers). Face piece deposited on plastic sheets.
Station 7:	Field Wash	7. Hands and face are thoroughly washed. Shower as soon as possible.

LEVEL D DECONTAMINATION

Station 1:	Equipment Drop	1. Deposit equipment used on-site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths. Segregation at the drop reduces the probability of cross contamination. During hot weather operations, cool down stations may be set up within this area.
Station 2:	Outer Garment, Boots, and Gloves Wash and Rinse	2. Scrub outer boots, outer gloves and chemical-resistant splash suit with decon solution or detergent and water. Rinse off using copious amounts of water.
Station 3:	Outer Boot and Glove Removal	3. Remove outer boots and gloves. Deposit in container with plastic liner.
Station 4:	Boot, Gloves and Outer Garment Removal	4. Boots, chemical-resistant splash suit, inner gloves removed and deposited in separate containers lined with plastic.
Station 5:	Field Wash	5. Hands and face are thoroughly washed. Shower as soon as possible.

EQUIPMENT DECONTAMINATION

GENERAL:

Equipment to be decontaminated during the project may include tools, monitoring equipment, respirators, sampling containers, laboratory equipment, and drilling equipment.

All decontamination will be done by personnel in protective gear, appropriate for the level of decontamination, as determined by the site HSO. The decontamination work tasks will be split or rotated among support and work crews.

Depending on site conditions, backhoes and pumps may be decontaminated over a portable decontamination pad to contain wash water; or wash water may be allowed to run off into a storm sewer system. Equipment needed may include a steam generator with high-pressure water, empty drums, screens, screen support structures, and shovels. Drums will be used to hold contaminated wash water pumped from the lined pit. These drums will be labeled as such.

Miscellaneous tools and equipment will be dropped into a plastic bucket, tub, or other containers. They will be brushed off and rinsed with a detergent solution, and finally rinsed with clean water.

MONITORING EQUIPMENT:

Monitoring equipment will be protected as much as possible from contamination by draping, masking, or otherwise covering as many of the instruments as possible with plastic without hindering the operation of the unit. The PID, HNu, or OVA meter, for example, can be placed in a clear plastic bag, which allows reading of the scale and operation of knobs. The probes can be partially wrapped keeping the sensor tip and discharge port clear.

The contaminated equipment will be taken from the drop area and the protective coverings removed and disposed of in the appropriate containers. Any dirt or obvious contamination will be brushed or wiped with a disposable paper wipe.

RESPIRATORS:

Respirators will be cleaned and disinfected after every use. Taken from the drop area, the masks (with the cartridges removed and disposed of with other used disposable gear) will be immersed in a cleaning solution and scrubbed gently with a soft brush, followed by a rinse in plain warm water, and then allowed to air dry. In the morning, new cartridges will be installed. Personnel will inspect their own masks for serviceability prior to donning them. And, once the mask is on, the wearer will check the respirator for leakage using the negative and positive pressure fit check techniques.

ATTACHMENT C

EMPLOYEE EXPOSURE/INJURY INCIDENT REPORT

EMPLOYEE INCIDENT/INJURY REPORT
LANGAN ENGINEERING & ENVIRONMENTAL SERVICES

(Complete and return to Tony Moffa in the Doylestown Office)

Affected Employee Name: _____ Date: _____

Incident type: ☐ Injury ☐ Report Only/No Injury
☐ Near Miss ☐ Other: _____

EMPLOYEE INFORMATION (Person completing Form)

Employee Name: _____ Employee No: _____

Title: _____ Office Location: _____

Length of time employed or date of hire: _____

Mailing address: _____

Sex: M ☐ F ☐ Birth date: _____

Business phone & extension: _____ Residence/cell phone: _____

ACCIDENT INFORMATION

Project: _____ Project #: _____

Date & time of incident: _____ Time work started & ended: _____

Site location: _____

Incident Type: Possible Exposure ☐ Exposure ☐ Physical Injury ☐

Names of person(s) who witnessed the incident:_____

_____

_____

Exact location incident occurred:

_____

_____

Describe work being done:_____

_____

_____

_____

Describe what affected employee was doing prior to the incident occurring:

_____

_____

_____

Describe in detail how the incident occurred:

_____

_____

_____

_____

Nature of the incident (List the parts of the body affected):

_____

_____

_____

_____

Person(s) to whom the incident was reported (Time and Date):

_____

_____

List the names of other persons affected during this incident:

_____

_____

Possible causes of the incident (equipment, unsafe work practices, lack of PPE, etc.):

_____

_____

_____

Weather conditions during incident:

_____

MEDICAL CARE INFORMATION

Did affected employee receive medical care? Yes ☐ No ☐

If Yes, when, and where was medical care received:

_____

_____

Provide name of facility (hospital, clinic, etc.):

_____

_____

Length of stay at the facility.

_____

Did the employee miss any work time? Yes ☐ No ☐ Undetermined ☐

Date employee last worked: _____ Date employee returned to work:

_____

Has the employee returned to work? Yes ☐ No ☐

Does the employee have any work limitations or restrictions from the injury? : Yes ☐ No ☐

If Yes, please describe:

_____

_____

Did the exposure/injury result in permanent disability? Yes ☐ No ☐ Unknown ☐

If Yes, please describe:

_____

HEALTH & SAFETY INFORMATION

Was the operation being conducted under an established site-specific Construction Health and Safety Plan?
Yes ☐ No ☐ Not Applicable: ☐

Describe protective equipment and clothing used by the employee:

_____

_____

_____

Did any limitations in safety equipment or protective clothing contribute to or affect exposure/injury? If so, explain:

_____

_____

_____

_____

Employee Signature Date

_____

Langan Representative Date

ATTACHMENT D

CALIBRATION LOG

DATE:_____ PROJECT:_____

CALIBRATION LOG

Date & Time	Inst Type	Inst #	Media	Initial Reading	Span #	Calibrate Reading	Performed By:

ATTACHMENT E

SAFETY DATA SHEETS

ATTACHMENT F

JOBSITE SAFETY INSPECTION CHECKLIST

Jobsite Safety Inspection Checklist

Date: _____ **Inspected By:** _____

Location: _____ **Project #:** _____

Check one of the following: **A:** Acceptable **NA**: Not Applicable **D**: Deficiency

	A	NA	D	Remark
1. CHASP available onsite for inspection?				
2. Health & Safety Compliance agreement (in CHASP) appropriately signed by Langan employees and contractors?				
3. Hospital route map with directions posted on site?				
4. Emergency Notification List posted on site?				
5. First Aid kit available and properly stocked?				
6. Personnel trained in CPR/First Aid on site?				
7. MSDSs readily available, and all workers knowledgeable about the specific chemicals and compounds to which they may be exposed?				
8 Appropriate PPE being worn by Langan employees and contractors?				
9. Project site safe practices ("Standing Orders") posted?				
10. Project staff have 40-hr./8-hr./Supervisor HAZWOPER training?				
11. Project staff medically cleared to work in hazardous waste sites and fit-tested to wear respirators, if needed?				
12. Respiratory protection readily available?				
13. Health & Safety Incident Report forms available?				
14. Air monitoring instruments calibrated daily, and results recorded on the Daily Instrument Calibration check sheet?				
15. Air monitoring readings recorded on the air monitoring data sheet/field logbook?				
16. Subcontract workers have received 40-hr./8-hr./Spvsr. HAZWOPER training, as appropriate?				
17. Subcontract workers medically cleared to work on site, and fit-tested for respirator wear?				
18. Subcontract workers have respirators readily available?				
19. Mark outs of underground utilities done prior to initiating any subsurface activities?				
20. Decontamination procedures being followed as outlined in CHASP?				
21. Are tools in good condition and properly used?				
22. Drilling performed in areas free from underground objects including utilities?				

23. Adequate size/type fire extinguisher supplied?				
24. Equipment at least 20 feet from overhead powerlines?				
25. Evidence that drilling operator is responsible for the safety of his rig.				
26. Trench sides shored, layer back, or boxed?				
27. Underground utilities located, and authorities contacted before digging?				
28. Ladders in trench (25-foot spacing)?				
29. Excavated material placed more than 2 feet away from excavation edge?				
30. Public protected from exposure to open excavation?				
31. People entering the excavation regarding it as a permit-required confined space and following appropriate procedures?				
32. Confined space entry permit is completed and posted?				
33. All persons knowledgeable about the conditions and characteristics of the confined space?				
34. All persons engaged in confined space operations have been trained in safe entry and rescue (non-entry)?				
35. Full body harnesses, lifelines, and hoisting apparatus available for rescue needs?				
36. Attendant and/or supervisor certified in basic first aid and CPR?				
37. Confined space atmosphere checked before entry and continuously while the work is going on?				
38. Results of confined space atmosphere testing recorded?				
39. Evidence of coordination with off-site rescue services to perform entry rescue, if needed?				
40. Are extension cords rated for this work being used and are they properly maintained?				
41. Are GFCIs provided and being used?				

Unsafe Acts: _____

_____

_____

_____

Notes: _____

_____

_____

_____

ATTACHMENT G

JOB SAFETY ANALYSIS FORM

LANGAN	Job Safety Analysis (JSA) Construction Health and Safety
JSA TITLE: **JSA NUMBER:**	**DATE CREATED:** **CREATED BY**: **REVISION DATE:** **REVISED BY:**

Langan employees must review and revise the Job Safety Analysis (JSA) as needed to address the any site-specific hazards not identified. Employees must provide their signatures on the last page of the JSA indicating they have review the JSA and are aware the potential hazards associated with this work and will follow the provided preventive or corrective measures.

PERSONAL PROTECTIVE EQUIPMENT REQUIRED: (PPE): ■ Required ☒ As Needed		
☐ Steel-toed boots	☐ Nitrile gloves	☐ Dermal Protection (Specify)
☐ Long-sleeved shirt	☐ Leather/ Cut-resistant gloves	☐ High visibility vest/clothing
☐ Safety glasses	☐ Face Shield	☐ Hard hat
ADDITIONAL PERSONAL PROTECTIVE EQUIPMENT NEEDED (Provide specific type(s) or descriptions)		
☐ Air Monitoring:	☐ Respirators:	☐ Other:
☐ Dermal Protection:	☐ Cartridges:	☐ Other:

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE OR CORRECTIVE ACTION
1.	1. 2.	1a. 1b. 2a. 2b.
2.	1.	1
Additional items identified in the field.		
Additional Items.		

If additional items are identified during daily work activities, please notify all relevant personnel about the change and document on this JSA.

LANGAN	Job Safety Analysis (JSA) Construction Health and Safety
JSA Title: COVID-19 Awareness – Site Work **JSA Number: JSA046-00**	
A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.	

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Boots	☐ Long Sleeves	☐ Safety Vest (Class 2)	☐ Hard Hat	☐ Hearing Protection
☐ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☐ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Alcohol-based hand sanitizer, disinfectant wipes/spray				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
1. All Activities	1. Transmittal/exposure of COVID-19	1. Ask yourself and your managers – is this work essential? Can this be done remotely? 2. Stay home if sick or showing symptoms of COVID-19 (e.g., fever, cough, etc.). 3. Carry nitrile gloves, alcohol-based hand sanitizer, face coverings and disinfectant wipes/spray during field work. 4. Check federal, state, and/or local travel restrictions **prior** to travel. Many states, counties, and cities are passing strict "shelter-in-place" or business restrictions in response to COVID-19. 5. Immediately notify Beverly Williams or Rory Johnston (Supervisor if employee chooses) if you display symptoms of COVID-19. Symptoms include fever (over 100.4 F), cough, and shortness of breath. 6. Notify Beverly Williams or Rory Johnston, Supervisor and Coronavirus Task Force if you had close contact with an individual who tested positive or displayed symptoms of COVID-19. 7. Do not touch your face, to the extent possible. 8. Wear face coverings when around other worker to minimize spread of COVID-19. (May be required in certain states or locations.)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		9. Practice social distancing, maintaining at least 6 feet of distance between yourself and others. Avoid gatherings of more than 10 people. Limit, to the extent possible, contact with public items/objects. 10. Clean your hands frequently with soap and water for at least 20 seconds especially after you have been in a public place, or after blowing your nose, coughing, sneezing, or using the rest room. 11. If soap and water are not readily available, use a hand sanitizer that contains at least 60% alcohol. Cover all surfaces of your hands and rub them together until they feel dry. 12. Cover your mouth and nose with a tissue when you cough or sneeze or use the inside of your elbow. 13. Clean and disinfect frequently touched surfaces daily, for example, cell phones, computer equipment, headsets, tables, doorknobs, light switches, countertops, handles, desks, toilets, faucets, and sinks.
2. Travel to Jobsite	1. Transmittal/exposure of COVID-19 between passengers 2. Transmittal/exposure of COVID-19 from previous occupants (rental and fleet vehicles) 3. Transmittal/exposure of COVID-19 while refueling	1. Limit the number of occupants to each vehicle to 2 people. Employees should sit as far away from each other as possible. 2. Disinfect high “hand-traffic” areas of the vehicle: Door handles, steering wheel, turn signal and control rods, dashboard controls, seatbelts, armrests, etc. To the extent possible, do not use recycled air for heat/AC and travel with the windows open. 3. Use hand sanitizer before and after pumping gas and only return to the inside of the vehicle after refueling is complete. 4. Wear nitrile gloves if available or disinfect the keypad, pump handle, and fuel grade button prior to use. 5. Recommend face coverings are worn to minimize spread of COVID-19.
3. Conduct Tailgate Safety Meeting & Complete H&S Paperwork	1. Transmittal/exposure of COVID-19 between meeting participants	1. Practice social distancing, maintaining at least 6 feet of distance between yourself and others. 2. Recommend face coverings are worn when around other workers to minimize spread of COVID-19, 3. Hold meetings outside and keep in mind wind direction. To the extent possible, remain crosswind from other people. 4. Designate a single person to maintain sign-in sheets/permits throughout the day to limit the passing of pens/clipboards between people. 5. Each person should complete their own JSA, even if they are completing similar tasks as others in order to limit the passing of paper/pens/clipboards between people. 6. Include COVID-19 topics and prevention measures in safety meetings.
4. Conduct Site Work	1. Transmittal/exposure of COVID-19 between site workers and public.	1. Practice social distancing maintaining 6 feet of distance between yourself and others. 2. Recommend face coverings are worn when around other workers to minimize spread of COVID-19, 3. To the extent possible, do not interact with the public. If it is necessary, politely explain you are practicing social distance and request they stay at least 6 feet away and they do not attempt to pass objects to you. 4. Wear nitrile gloves during site work underneath the appropriate gloves for your task. Utilize appropriate decontamination procedures, securely bag all waste (including nitrile gloves) generated during site work and dispose of.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		5. Do not share tools. Each person should be equipped with the tools to complete their task or tasks should be divided to remove the need to share tools. If tools must be shared, surfaces should be disinfected. 6. Clean and disinfect surfaces of rental tools and equipment upon receipt. To the extent possible rent equipment from Langan's internal equipment reservation center, where cleaning/disinfecting procedures can be verified.
5. Use of Construction Trailers	1. Transmittal/exposure of COVID-19 between site workers and others.	1. Avoid use of shared trailers, if possible. Minimize trailer use to essential personnel. 2. Practice social distancing; maintaining 6 feet of distance between yourself and others in trailer. 3. Clean and disinfect areas including desks, phones, chairs, and other common areas, before and after use.
6. Purchasing Food from a Restaurant	1. Transmittal/exposure of COVID-19 from other customers, staff, surfaces.	1. To the extent possible, bring your own food. 2. If you must visit a restaurant, call ahead for take-out or "contactless delivery." Do not dine in. When picking up food, follow guidelines for Job Step #8: Purchasing Supplies at Retail/Shipping Centers. 3. Wash hands before and after eating.
7. Smoking Cigarettes	1. Transmittal/exposure of COVID-19 by touching mouth with hands	1. Cigarette smokers are at greater risk of complications arising from COVID-19. Nicotine patches/lozenges/gum, smoking cessation programs, and prescription medications may aid in "kicking the habit" if you decide to quit. 2. Wash hands thoroughly before and after smoking. 3. Discard cigarette butts properly. Do not light cigarettes from others and do not give cigarettes to others.
8. Hotel Stay	1. Transmittal/exposure of COVID-19 from previous occupants, hotel staff, common areas.	1. Verify the hotel chain/brand has modified cleaning procedures to reflect risk of COVID-19. Most hotel companies have issued statements on their websites and in email blasts reflecting these new procedures. 2. Use the front door, and not peripheral entrances. Front doors of hotels are usually automatic. 3. Request ground floor room to avoid elevator use and a room that has not be utilized in 48-72 hours. 4. If elevator use is required, do not directly touch elevator buttons with your hands. Do not ride elevators with other people, to the extent possible. 5. Bring disinfecting wipes or sanitizing spray. Upon arrival, disinfect high "hand-traffic" areas of the hotel room: Door handles, light switches, shower/sink faucet handles, TV remote, curtain/blind handles. Clean these surfaces daily. 6. Place the "Do Not Disturb" Sign on your door to prevent people (housekeeping) from entering your room. 7. Avoid common spaces and hotel sponsored events where crowds will be present. 8. Confirm hotel cleaning procedures have been modified to address COVID-19. Confirm no COVID-19 cases have occurred in hotel
9. Purchasing Supplies at Retail/Shipping Centers	1. Transmittal/exposure of COVID-19 from other customers, staff, surfaces.	1. Plan your travel to limit the need to visit retail/shipping centers. 2. Practice social distancing, maintaining at least 6 feet of distance between yourself and others. If the store is too crowded/small, consider visiting another store or returning at a different time. 3. Avoid high "hand-traffic" items/areas like door handles (i.e. use your shoulder, hip/butt, or open with a disposable napkin/paper towel), credit cards terminals (i.e. use Apple/Android pay if available), shopping carts/baskets (i.e. bring your own shopping

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		bags), counter tops (i.e. ask clerk if you can hold the items while they are scanned) and bulk/buffet items (i.e. just avoid them). 4. Disinfect your hands before and after visiting a retail/shipping center.

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Construction Health and Safety

JSA Title: **Environmental Sampling**
JSA Number: **JSA021-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☐ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☒ Fire Resistant Clothing	☐ Rubber Boots
☒ Insect/Animal Repellent	☒ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Tyvek Sleeves				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
1. Drive to sample location	1. Rough/Off Road terrain	1. Pay attention to road conditions such as road erosion, unprotected embankments, and soft road conditions.
2. Sample Collection (Walking)	1. Slip/Trips/Falls 2. Back strains 3. Wildlife (Insects, Stray animals, rodents) 4. Poisonous vegetation	1. Minimize distance to sample area/ Plan route and check surface prior to carrying heavy equipment/ Locate safest access point/ Follow good housekeeping procedures/ Mark significant below grade hazards (holes, trenches) with spray paint or cones/ Wear foot protection with ankle support and gripping soles. 2. Use proper lifting techniques/ Use wheeled transport/ Obtain assistance where and when needed/ Consider load weight when evaluating what is safe and unsafe to carry. 3. Be aware of surroundings for the presence of wildlife. Do not approach stray animals. Carry and use animal repellant when needed/ Use bug spray when needed. 4. Keep skin covered/ Identify and avoid poisonous vegetation/ Clean areas after contact with suspected vegetation.
3. Sample Collection (Water)	1. Drowning Hazards 2. Chemical burns (when adding acid preservative to sample) 3. Back Strains 4. Ergonomic issues 5. Slip/Trips/Falls	1. Use buddy system/ Wear flotation vest if water is deeper than 2 feet or swift moving/ Select working area with stable footing. Do not attempt to cross or stand in swift moving water. 2. Wear proper PPE (Nitrile gloves, Tyvek Sleeves) 3. Use proper lifting techniques/ Use wheeled transport/ Obtain assistance where and when needed/ Consider load weight when evaluating what is safe or unsafe to carry. 4. When possible, avoid bending over for long periods of time/ Use a small stool for sitting or knee pad for kneeling.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		5. Minimize distance to sample area/ Plan route and check surface prior to carrying heavy equipment/ Locate safest access point/ Follow good housekeeping procedures/ Mark significant below grade hazards (holes, trenches) with spray paint or cones/ Wear foot protection with ankle support and gripping soles/ Avoid standing water or slippery terrain.
4. All activities	1. Slips/ Trips/ Falls 2. Hand injuries, cuts, or lacerations during manual handling of materials 3. Foot injuries 4. Back injuries 5. Traffic 6. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 7. High Noise levels 8. Overhead hazards 9. Heat Stress/ Cold Stress 10. Eye Injuries	1. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves 3. Wear Langan approved safety shoes 4. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 5. Wear high visibility clothing & vest / Use cones or signs to designate work area 6. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 7. Wear hearing protection 8. Wear hard hat / Avoid areas where overhead hazards exist. 9. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 10. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Construction Health and Safety

JSA Title: **Subsurface Investigation**
JSA Number: **JSA030-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Dielectric Overshoes, Sun Block				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
5. Transport equipment to work area	2. Back/strain 3. Slip/Trip/Falls 4. Traffic 5. Cuts/abrasions/contusions from equipment 6. Accidents due to vehicle operations	1. Use proper lifting techniques/Use wheeled transport 2. Minimize distance to work area/unobstructed path to work area/follow good housekeeping procedures 3. Wear proper PPE (high visibility vest or clothing) 4. Wear proper PPE (leather gloves, long sleeves, Langan approved safety shoes) 5. Observe posted speed limits/ Wear seat belts at all times
6. Traffic	1. Hit by moving vehicle	1. Use traffic cones and signage/ Use High visibility traffic vests and clothing/ Caution tape when working near active roadways.
7. Field Work (drilling, resistivity testing, and inspection)	1. Biological Hazards: insects, rats, snakes, poisonous plants, and other animals 2. Heat stress/injuries 3. Cold Stress/injuries 4. High Energy Transmission Lines 5. Underground Utilities 6. Electrical (soil resistivity testing)	1. Inspect work area to identify biological hazards. Wear light colored long sleeve shirt and long pants/ Use insect repellant as necessary/ Beware of tall grass, bushes, woods, and other areas where ticks may live/ Avoid leaving garbage on site to prevent attracting animals/ Identify and avoid contact with poisonous plants/Beware of rats, snakes, or stray animals. 2. Wear proper clothing (light colored)/ drink plenty of water/ take regular breaks/use sun block. 3. Wear proper clothing/ dress in layers/ take regular breaks. 4. Avoid direct contact with high energy transmission lines/ position equipment at least 15 feet or as required by PSE&G from the transmission lines/ wear proper PPE (dielectric overshoes 15 kV minimum rating).

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		5. Call one-call service before performing intrusive field work/ Review utility mark-outs and available utility drawings (with respect to proposed work locations)/ Follow Underground Utility Guidelines 6. See AGI Sting R1 operating manual for specific concerns during operating instrument
8. All activities	1. Slips/ Trips/ Falls 2. Hand injuries, cuts, or lacerations during manual handling of materials 3. Foot injuries 4. Back injuries 5. Traffic 6. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 7. High Noise levels 8. Overhead hazards 9. Heat Stress/ Cold Stress 10. Eye Injuries	7. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 8. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 9. Wear Langan approved safety shoes. 10. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 11. Wear high visibility clothing & vest / Use cones or signs to designate work area. 12. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 13. Wear proper hearing protection. 14. Wear hard hat / Avoid areas where overhead hazards exist. 15. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 16. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Construction Health and Safety

JSA Title: **Field Sampling**
JSA Number: **JSA022-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☐ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
9. Unpack/Transport equipment to work area.	7. Back Strains 8. Slip/Trips/Falls 9. Cuts/Abrasions from equipment 10. Contusions from dropped equipment	6. Use proper lifting techniques/Use wheeled transport. 7. Minimize distance to work area/Unobstructed path to work area/follow good housekeeping procedures. Mark slip/trip/fall hazards with orange safety cones. 8. Wear proper PPE (leather gloves, long sleeves). 9. Wear proper PPE (Langan approved safety shoes).
10. Initial Site Arrival-Site Assessment	5. Traffic	5. Situational awareness (be alert of your surroundings). Secure area from through traffic.
11. Surface Water Sampling	6. Contaminated media. Skin/eye contact with biological agents and/or chemicals.	6. Wear appropriate PPE (Safety glasses, appropriate gloves). Review (M)SDS for all chemicals being.
12. Sampling from bridges	1. Struck by vehicles	1. Wear appropriate PPE (Safety Vest). Use buddy system and orange safety cones.
13. Icing of Samples/ Transporting coolers/equipment from work area.	11. Back Strains 12. Slips/Trips/Falls 13. Cuts/Abrasions from equipment 14. Pinch/Crushing Hazards.	17. Drain coolers of water. Use proper lifting techniques. Use wheeled transport. 18. Have unobstructed path from work area. Aware of surroundings. 19. Wear proper PPE (Leather gloves, long sleeves) 20. Wear proper PPE (Leather gloves, long sleeves)
14. Site Departure	1. Contaminated PPE/Vehicle	1. Contaminated PPE should be disposed of on-site. Remove boots and soiled clothing for secure storage in trunk. Wash hands promptly.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
15. All activities	1. Slips/ Trips/ Falls 2. Hand injuries, cuts, or lacerations during manual handling of materials 3. Foot injuries 4. Back injuries 15. Traffic 16. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 17. High Noise levels 18. Overhead hazards 19. Heat Stress/ Cold Stress 20. Eye Injuries	1. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves 3. Wear Langan approved safety shoes 4. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 21. Wear high visibility clothing & vest / Use cones or signs to designate work area. 22. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 23. Wear hearing protection 24. Wear hard hat / Avoid areas where overhead hazards exist. 25. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 26. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Construction Health and Safety

JSA Title: **Equipment Transportation and Set-up**
JSA Number: **JSA012-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
16. Transport equipment to work area	11. Back Strain 12. Slips/ Trips/ Falls 13. Traffic 14. Cuts/abrasions from equipment 15. Contusions from dropped equipment	1. Use proper lifting techniques / Use wheeled transport. 2. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures. 3. Wear proper PPE (high visibility vest or clothing) 4. Wear proper PPE (leather gloves, long sleeves) 5. Wear proper PPE (safety shoes)
17. Moving equipment to its planned location	6. Pinch Hazard 7. Slips/ Trips/ Falls	1. Wear proper PPE (leather gloves) 2. Be aware of potential trip hazards / Practice good housekeeping procedures / Mark significant below-grade hazards (i.e., holes, trenches) with safety cones or spray paint
18. Equipment Set-up	7. Pinch Hazard 8. Cuts/abrasions to knuckles/hands. 9. Back Strain	1. Wear proper PPE (leather gloves) 2. Wear proper PPE (leather gloves) 3. Use proper lifting techniques / Use wheeled transport
19. All activities	21. Slips/ Trips/ Falls 22. Hand injuries, cuts, or lacerations during manual handling of materials 23. Foot injuries 24. Back injuries 25. Traffic 26. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.)	27. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 28. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 29. Wear Langan approved safety shoes.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
4. All activities (cont'd)	27. High Noise levels 28. Overhead hazards 29. Heat Stress/ Cold Stress 30. Eye Injuries	30. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 31. Wear high visibility clothing & vest / Use cones or signs to designate work area. 32. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 33. Wear hearing protection 34. Wear hard hat / Avoid areas where overhead hazards exist. 35. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 36. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Construction Health and Safety

JSA Title: **55-gallon Drum Sampling**
JSA Number: **JSA043-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☒ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: All Drums are required to be labeled. Langan employees do not open or move undocumented drums or unlabeled drums without proper project manager authorization.				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
20. Unpack/Transport equipment to work area.	16. Back Strains 17. Slip/Trips/Falls 18. Cuts/Abrasions from equipment 4. Contusions from dropped equipment	10. Use proper lifting techniques/Use wheeled transport. 11. Minimize distance to work area/Unobstructed path to work area/follow good housekeeping procedures. Mark slip/trip/fall hazards with orange safety cones. 12. Wear proper PPE (leather gloves, long sleeves). 4. Wear proper PPE (Langan approved safety shoes).
21. Open Drums	1. Hand Injuries, cuts or lacerations when untightening drum locking bolt, removing drum lid strap, or removing lid. 2. Pressure from drums.	1. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. Use non-metallic mallet and non-sparking tools/wrenches. 2. Open drum slowly to relieve pressure. Wear proper PPE: face shield and goggles; correct gloves; and over garments.
22. Collecting Soil/Fluid Sample	8. Irritation to eye from vapor, soil dust, or splashing. 9. Irritation to exposed skin	6. Wear proper eye protection including safety glasses/ face shield/googles and when necessary, splash guard. If dust or vapor phase is present, wear appropriate safety breathing gear (1/2 mask or full face mask with correct filter) 7. Wear proper skin protection including nitrile gloves.
23. Closing Drums	1. Hand Injuries, cuts or lacerations when untightening drum locking bolt, removing drum lid strap, or removing lid.	7. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. Use non-metallic mallet and non-sparking tools/wrenches.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
24.Moving Drums	2. Hand Injuries, cuts or lacerations when untightening drum locking bolt, removing drum lid strap, or removing lid. 3. Back Strains	2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. Use non-metallic mallet and non-sparking tools/wrenches. 3. Use proper lifting techniques/Use wheeled transport.
25. All activities	31. Slips/ Trips/ Falls 32. Hand injuries, cuts, or lacerations during manual handling of materials 33. Foot injuries 34. Back injuries 35. Traffic 36. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 37. High Noise levels 38. Overhead hazards 39. Heat Stress/ Cold Stress 40. Eye Injuries	37. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 38. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 39. Wear Langan approved safety shoes. 40. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 41. Wear high visibility clothing & vest / Use cones or signs to designate work area. 42. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 43. Wear hearing protection 44. Wear hard hat / Avoid areas where overhead hazards exist. 45. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 46. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Construction Health and Safety

JSA Title: **Direct-Push Soil Borings**
JSA Number: **JSA004-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT REQUIRED:				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Half-face respirator, dust cartridges, PID (if applicable)				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
26.Move equipment to work site	19.Back strain when lifting equipment. 20.Slips/ Trips/ Falls while moving equipment. 21.Traffic (if applicable) 22.Pinched fingers or running over toes during GeoProbe set-up. 23.Overturn drilling rig while transporting to loading dock on flat-bed tow truck	13. Use proper lifting technique (use legs for bending and lifting and not the back)/ Use wheeled transport for heavy equipment / Get assistance when handling loads greater than 50 lbs. / Minimize distance to vehicle 14. Use proper lifting technique (use legs for bending and lifting and not the back) / Use wheeled transport for heavy equipment / Get assistance when handling loads greater than 50 lbs. / Minimize distance to vehicle / Have unobstructed path to vehicle or collection point / Do not lift/walk with boxes that are heavy/difficult to lift 15. Wear high visibility safety vests or clothing / Exercise caution 16. Wear proper PPE (cut-resistant gloves) / Stay alert, be aware of geoprobe rig at all times 17. Drill rig should be parked in center of flat-bed tow truck / Emergency brake shall be used at all times during transport on the flat-bed truck/ All unnecessary personnel should stay away from the flat-bed truck during moving activities
27.Calibration of monitoring equipment	10.Skin or eye contact with calibration chemicals 11.Pinch fingers in monitoring equipment	8. Wear proper PPE (safety glasses/ goggles) 9. Wear proper PPE (leather gloves)
28.Set-up GeoProbe rig	10. Geoprobe rig movement	8. All field personnel should stay clear of the GeoProbe rig while moving / Use a spotter when backing up the GeoProbe
29.Advance GeoProbe rods below ground surface to desired depth	4. Underground utilities 5. High noise levels	4. Clean all subsurface soil borings to a minimum of 5 feet below grade. 5. Wear proper PPE (hearing protection)
30. Remove and open acetate liner.	41. Pinched fingers while removing macrocore.	1. Wear proper PPE (nitrile gloves, cut-resistant or leather gloves 2. Wear proper PPE (cut-resistant or leather gloves)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
5. Remove and open acetate liner (cont'd)	42. Cuts/lacerations when cutting acetate liner open. 43. Exposure to hazardous vapors 44. Skin contacts with contaminated soil	3. Do not place face over acetate liner when opening / Monitor hazardous vapors in air with PID / Upgrade PPE as necessary based on levels contained in the Construction Health and Safety Plan 4. Wear proper PPE (nitrile gloves)
31. Sample Collections a) Monitor parameters. b) Prepare sample containers and labels	1. Contact with potentially contaminated soil. 2. Lacerations from broken sample bottles 3. Back strain while transporting full coolers. 4. Internal exposure to contaminants and metals through inhalation of dust 5. Slips/ Trips/ Falls	1. Use monitoring devices / Wear proper PPE (safety glasses, nitrile gloves) 2. Do not over-tighten bottle caps / Handle bottles safely to prevent breakage. 6. Use proper lifting techniques / Do not lift heavy loads without assistance. 7. Avoid creating dust / If necessary, wear a half mask respirator with applicable dust cartridge / Inspect respirator for damage and cleanliness prior to use / Clean respirator after each use and store in a clean, secure location. 8. Be alert / Follow good housekeeping procedures
32. Remove excess soil from acetate liner and place in 55-gallon drum (IF NOT PERFORMED BY LANGAN, REMOVE!)	1. Cuts/lacerations from acetate liner 2. Pinched fingers/hand while opening/closing drum. 3. Skin contacts with contaminated soil 4. Soil debris in eyes	1. Wear proper PPE (cut-resistant or leather gloves) 2. Wear proper PPE (cut-resistant or leather gloves) 3. Wear proper PPE (nitrile gloves) 4. Wear proper PPE (safety glasses)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
8. Transport drums to central staging location (IF NOT PERFORMED BY LANGAN, REMOVE!)	1. Back, arm or shoulder strain from moving drums. 2. Pinch fingers/hand in drum cart when moving drums. 3. Pinch fingers/hand when operating lift-gate on vehicle. 4. Contact with potentially contaminated groundwater when moving improperly sealed drums. 5. Slips when moving drums. 6. Drop drum on feet/toes	47. Use drum cart for moving drums / Use proper lifting techniques / Do not lift heavy loads without assistance. 48. Wear proper PPE (cut-resistant or leather gloves) 49. Wear proper PPE (cut-resistant or leather gloves) 50. Wear proper PPE (nitrile gloves underneath work gloves) 51. Follow good housekeeping procedures / Ensure route to move drum and storage space is free from obstructions. 52. Wear proper PPE (safety shoes) / Work in a safe manner to prevent dropped drum
9. All activities 9. All activities (cont'd)	1. Slips/ Trips/ Falls 2. Hand injuries, cuts, or lacerations during manual handling of materials 3. Foot injuries 4. Back injuries 5. Traffic 6. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 7. High Noise levels 8. Overhead hazards 9. Heat Stress/ Cold Stress 10. Eye Injuries	1. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 3. Wear Langan approved safety shoes. 4. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 5. Wear high visibility clothing & vest / Use cones or signs to designate work area. 6. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 7. Wear hearing protection 8. Wear hard hat / Avoid areas where overhead hazards exist. 9. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 10. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**

Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Construction Health and Safety

JSA Title: Geophysical Investigation
JSA Number: JSA023-01

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
33. Transport equipment to work area	24. Back/strain 25. Slip/Trip/Falls 26. Traffic 27. Cuts/abrasions/contusions from equipment	18. Use proper lifting techniques/Use wheeled transport 19. Minimize distance to work area/unobstructed path to work area/follow good housekeeping procedures 20. Wear proper PPE (high visibility vest or clothing) 21. Wear proper PPE (leather gloves, long sleeves, Langan approved safety shoes)
34. Supervision of subcontractor and all other activities	12. Slip/Trips/Falls 13. Hand injuries 14. Foot injuries 15. Back injuries/Strains 16. Traffic 17. Wildlife a. Wildlife b. Mice/rats c. Vectors (i.e., mosquitoes, bees, etc.) 7. Heat/Cold Stress	10. Be aware of potential trip hazards/follow good housekeeping procedures/mark significant below-grade hazards (i.e., holes, trenches, wires, ropes) with safety cones or spray paint. 11. Wear proper PPE (leather gloves)/watch wear you place your hands/inspect material or equipment for jagged, rough, or slippery surfaces/ watch for pinch points/ wipe off slippery, wet, or dirty items prior to handling. 12. Wear proper PPE (Langan approved safety shoes)/ Be aware of uneven terrain) 13. Use proper lifting techniques/ Buddy system when lifting/ use wheeled transport. 14. Wear proper PPE (high-visibility shirts and vests)/ use cones if appropriate/ notify equipment operators of work area. 15. Be aware of surroundings at all times for the presence of wildlife. a. Do not approach stray animals. b. Carry animal repellant/ use if situation arises. c. Use bug spray when needed. 7. Wear proper attire for weather conditions (sunscreen, protective clothing in

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		sunlight or layer clothing in cold weather)/ drink plenty of fluids/ take regular breaks.
35. All activities	45. Slips/ Trips/ Falls 46. Hand injuries, cuts, or lacerations during manual handling of materials 47. Foot injuries 48. Back injuries 49. Traffic 50. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 51. High Noise levels 52. Overhead hazards 53. Heat Stress/ Cold Stress 54. Eye Injuries	53. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 54. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 55. Wear Langan approved safety shoes. 56. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 57. Wear high visibility clothing & vest / Use cones or signs to designate work area. 58. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 59. Wear proper hearing protection. 60. Wear hard hat / Avoid areas where overhead hazards exist. 61. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 62. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Excavation Oversight**
JSA Number: **JSA041-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
36. Transport equipment to work area	28. Back Strain 29. Slips/Trips/Falls 30. Traffic 31. Cuts/abrasions/contusions from equipment	22. Use proper lifting techniques / Use wheeled transport 23. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures 24. Wear proper PPE (high visibility vest or clothing) 25. Wear proper PPE (leather gloves, long sleeves, safety shoes)
37.Earth Moving Equipment	18. Equipment running over employee 19.Swing radius of equipment 20.Site constraints 21.Line of Fire incidents 22.Crushing hazards	16. Ensure you have direct line of sight with operator of equipment; 17. Don't walk behind equipment; 18. Maintain a safe distance away from equipment. 19. Use spotters to communicate with equipment operator 20. Competent person onsite 21. Designate/cone-off swing radius of equipment 22. Excavator bucket grounded while collecting samples 23. Shut-down equipment prior to collecting samples 24. Wear proper PPE (high vis vest/clothing)
38.Excavation	11. Excavation collapse 12. Confined space 13. Soil	9. Use proper shoring/benching/sloping techniques; Ladder is properly situated in excavation; no water in excavation; competent person has inspected excavation prior to allow employees to enter. 10. Langan employees are not authorized to enter a confined space; 11. Soil and equipment is kept atleast 2 feet from edge of excavation
39.Excavated soil	1. Hazardous substances	1. Use proper equipment to monitor excavated soil for contaminates; ensure levels do not exceed PEL's for contaminates; Wear proper PPE
40. All activities	55. Slips/ Trips/ Falls	63. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
	56. Hand injuries, cuts or lacerations during manual handling of materials 57. Foot injuries 58. Back injuries 59. Traffic 60. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 61. High Noise levels 62. Overhead hazards 63. Heat Stress/ Cold Stress 64. Eye Injuries	64. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 65. Wear proper PPE (Langan approved safety shoes) 66. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 67. Wear high visibility clothing & vest / Use cones or signs to designate work area 68. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 69. Wear hearing protection 70. Wear hard hat / Avoid areas were overhead hazards exist. 71. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 72. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **General Construction Activities**
JSA Number: **JSA010-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
41.Transport equipment to work area	32.Back Strain 33.Slips/ Trips/ Falls 34.Traffic 35.Cuts/abrasions from equipment 36.Contusions from dropped equipment	6. Use proper lifting techniques / Use wheeled transport 7. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures 8. Wear proper PPE (high visibility vest or clothing) 9. Wear proper PPE (leather gloves, long sleeves) 10. Wear proper PPE (safety shoes)
42.Installation of piping from vapor wells to skid connections and fro mdischarge pipping to effluent stack	23. Pinch fingers when connecting pipes 24.Slips/ Trips/ Falls 25.Machinery Hazards	3. Wear proper PPE (leather gloves) 4. Be aware of potential trip hazards / Practice good housekeeping procedures / Mark significant below-grade hazards (i.e. holes, trenches) with safety cones or spray paint 5. Wear proper PPE (safety vest) / Maintain safe distance from operating machinery
43.Remediation equipment installation	14. Back strain when lifting heavy equipment 15. Slips/ Trips/ Falls 16. Traffic	5. Use proper lifting techniques / Use wheeled transport / Minimize distance to vehicle 6. Be aware of potential trip hazards / Practice good housekeeping procedures / Mark significant below-grade hazards (i.e. holes, trenches) with safety cones or spray pain 7. Wear proper PPE (safety vest)
44. All activities	65. Slips/ Trips/ Falls 66. Hand injuries, cuts or lacerations during manual handling of materials 67. Foot injuries 68. Back injuries	73. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 74. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
4. All activities (cont'd)	69. Traffic 70. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 71. High Noise levels 72. Overhead hazards 73. Heat Stress/ Cold Stress 74. Eye Injuries	75. Wear Langan approved safety shoes 76. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 77. Wear high visibility clothing & vest / Use cones or signs to designate work area 78. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 79. Wear hearing protection 80. Wear hard hat / Avoid areas were overhead hazards exist. 81. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 82. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Ladder Use**
JSA Number: **JSA056**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.

S – ***Stop,*** *what has changed?*

T – ***Think*** *about the task*

E – ***Evaluate*** *potential hazards*

P – ***Plan*** *safe approach*

S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☐ Long Sleeves	☐ Safety Vest (Class 2)	☐ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☐ Leather Gloves	☐ Cut Resist. Gloves	☒ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
45. Use of Ladders and Inspection of Ladders Before Use	1. Ladders (portable, fixed) 2. Rolling or pinching objects 3. Sharp objects	26. Inspect all ladders for structural defects prior to each use. Decals, weight restrictions, non painted surfaces. 27. Use the correct type and size of ladder to safely work. 28. . Do not use metal or wooden ladders
46. Use of Ladder(s)	26. Ladders (portable, fixed) 27.Elevated work platform or stairs 28.Slippery surfaces (water, ice, snow) 29.Rolling or pinching objects 30.Sharp objects 31.Poor Housekeeping 32.Repetitive motion or other ergonomic concerns 33.Airborne dust	25. Maintain three points of contact when ascending and descending ladders. 26. Insure area at bottom of ladder is free of obstructions and tripping hazards. 27. Never carry tools in your hands while ascending or descending a ladder. 28. Utilize rope buckets to pull tools up to you or tool belts. Extension ladders will extend up to 36 inches above the landing that is being accessed and be tied off and secured to prevent them from moving or falling. 29. A spotter must hold the ladder if the employee needs to climb the ladder to tie the ladder off. When using an extension ladder, for every 4' of rise, the base must come out 1' (4 to 1 ratio) 30. If working from a ladder 6 ft. or higher, fall protection is required. Fall protection is not required for climbing ladders less than 20 ft. in height.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		31. Use the proper ladder for the job at all times. 32. The belt buckle may never extend past either rail on the side of the ladder. 33. Do not climb higher than the second tread from the top on a stepladder or the third rung 34. Before ascending or descending a ladder, wait until other workers have completely cleared the ladder. Do not stand directly below a person who is climbing or descending a ladder to avoid falling objects.
47. All activities	75. Slips/ Trips/ Falls 76. Hand injuries, cuts or lacerations during manual handling of materials 77. Foot injuries 78. Back injuries 79. Eye Injuries	83. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 84. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 85. Wear proper PPE (Langan approved safety shoes) 86. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 87. Wear high visibility clothing & vest / Use cones or signs to designate work area 88. Wear hard hat / Avoid areas were overhead hazards exist. 89. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 90. Wear safety glasses

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Mechanical Connection Oversight**
JSA Number: **JSA027-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
48. Transport equipment to work area	37. Back Strain 38. Slips/ Trips/ Falls 39. Traffic 40. Cuts/abrasions from equipment 41. Contusions from dropped equipment	11. Use proper lifting techniques / Use wheeled transport 12. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures 13. Wear proper PPE (high visibility vest or clothing) 14. Wear proper PPE (leather gloves, long sleeves) 15. Wear proper PPE (Langan approved safety shoes)
49. Piping and connections	6. Pinch Hazard 7. Cuts/abrasions to knuckles/hands 8. Back Strain 9. High pressure water spray	1. Wear proper PPE (leather gloves) 2. Wear proper PPE (leather gloves or cut resistant gloves) 3. Use proper lifting techniques / Use wheeled transport 4. Ensure connections are tight and secure/ Wear proper PPE (face shield and safety glasses)
50. All activities	80. Slips/ Trips/ Falls 81. Hand injuries, cuts or lacerations during manual handling of materials 82. Foot injuries 83. Back injuries 84. Traffic 85. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 86. High Noise levels 87. Overhead hazards 88. Heat Stress/ Cold Stress 89. Eye Injuries	91. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 92. Inspect for jagged/sharp edges, rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather and/or cut-resistant gloves 93. Wear Langan approved safety shoes 94. Use proper lifting techniques / Consider load location, task repetition, and load weigh / Obtain assistance when possible 95. Wear high visibility clothing & vest / Use cones or signs to designate work area 96. Be aware of surroundings for presence of wildlife/ Do not approach stray animals / Carry or use animal repellant / Use bug spray when needed

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		97. Wear proper PPE (hearing protection) 98. Wear hard hat / Avoid areas were overhead hazards exist. 99. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 100. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: Soil Sampling from Excavator Bucket
JSA Number: JSA057

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☐ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☐ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
51. Drive to site and/or sample location.	42. Rough/Off-Road terrain; 43. Low-light or other hazardous environmental conditions.	1. Pay attention to road conditions such as road erosion, unprotected embankments, and soft road conditions; 2. Ensure vehicle is properly equipped and outfitted for the terrain and all environmental conditions.
52. Initial Site Arrival Site Assessment.	1. Unsafe driving conditions including personnel walking within driving areas, open excavation or pits, steep slopes etc.; 2. Biological hazards (snakes, poison oak, bees).	1. Maintain situational awareness upon arriving to the work site (be alert of your surroundings). Secure the work area from through traffic.
53. Unpack and transport equipment to work area.	1. Back Strains; 2. Slip/Trips/Falls; 3. Cuts/Abrasions from equipment; 4. Contusions from dropped equipment.	1. Use proper lifting techniques and use wheeled transport; 2. Minimize distance to work area and create unobstructed path to work area. Follow good housekeeping procedures. Mark slip/trip/fall hazards with orange safety cones and/or caution tape; 3. Wear proper PPE (gloves, long sleeves, etc.); 4. Wear proper PPE (Langan-approved safety shoes, hardhat, etc.).
54. Earth Moving Equipment.	1. Equipment striking, crushing, running over employee etc.	1. Place traffic cones and use caution tape to clearly delineate the excavators front and rear swing radius. Do not enter the excavators or other heavy equipment swing radius/travel paths while in operation; 2. Ensure all employees working in the vicinity of the excavator/heavy equipment maintain direct line of sight with the operator at all times; don't walk behind equipment or within the operators blind spots; maintain a safe distance away from the equipment; 3. Designate one employee as the "spotter" to communicate with the excavator operator, and establish a shut-down signal that, when

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		sounded, instructs the excavator operator to freeze/stop all movement of the equipment; 4. Direct operator to completely power down the excavator before approaching (i.e. breaking the swing radius plane) the excavator bucket to collect a sample; 5. Direct the operator keep the equipment completely powered-down until all employees are at a safe distance, and it is safe to continue work. The designated spotter should be the only person directing the operator to power the equipment back on. 6. Conduct a planned pause anytime there is a change in procedure or before beginning a new task; 7. Wear proper PPE (high vis vest/clothing).
55. Icing of Samples & Transporting coolers/equipment from work area.	1. Back Strains 2. Slips/Trips/Falls 3. Cuts/Abrasions from equipment 4. Pinch/Crushing Hazards.	1. Drain coolers of water. Use proper lifting techniques. Use wheeled transport whenever possible; 2. Plan for and utilize a safe and unobstructed path of travel to and from work area. Maintain situational awareness when traveling to and from work area; 3. Wear proper PPE (Leather gloves, long sleeves); 4. Wear proper PPE (Leather gloves, long sleeves, hard hat, Langan approved safety shoes).
56. Excavated soil.	1. Hazardous substances.	1. Use proper equipment to monitor excavated soil for contaminates; 2. Ensure levels do not exceed PEL's for contaminates; 3. Wear proper PPE.
57. Changing site conditions.	1. Stockpiles and/or excavations/trenches/pits creating unsafe paths of travel. 2. Unforeseen conditions	1. Take time to plan out stockpile, excavation, trench, and/or test pit locations, ensuring that the planned work will not create unsafe conditions or paths of travel once performed; 2. Maintain situational awareness throughout the work day (be alert of the evolving site conditions); 3. If stockpile, excavation, trench, and/or test pit locations create pinch points, site constraints, or unsafe paths of travel or other unsafe site conditions, stop work immediately and direct the excavator operator to correct the unsafe conditions by moving stockpiles, backfilling excavations, trenches, and/or test pits etc.; 4. Use stop work and conduct a planned pause to address changed site conditions.
58. All activities.	1. Slips/ Trips/ Falls; 2. Hand injuries, cuts or lacerations during manual handling of materials; 3. Foot injuries; 4. Back injuries; 5. Traffic; 6. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.); 7. High Noise levels; 8. Overhead hazards; 9. Heat Stress/ Cold Stress; 10. Eye Injuries.	1. Be aware of potential trip hazards. Follow good housekeeping procedures. Mark significant hazards; 2. Inspect for jagged/sharp edges, and rough or slippery surfaces. Keep fingers away from pinch points. Wipe off greasy, wet, slippery or dirty objects before handling. Wear proper PPE (leather/ cut-resistant gloves); 3. Wear proper PPE (Langan approved safety shoes); 4. Use proper lifting techniques. Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift. Obtain assistance when possible; 5. Wear high visibility clothing & vest / Use cones or signs to designate work area;

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		6. Be aware of surroundings at all times, including the presence of wildlife. Do not approach stray dogs. Carry/use dog/animal repellant. Use bug spray when needed; 7. Wear hearing protection; 8. Wear hard hat / Avoid areas were overhead hazards exist; 9. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather). Drink plenty of fluids to avoid dehydration. Take breaks as necessary to avoid heat/cold stress; 10. Wear safety glasses

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Site Inspection**
JSA Number: **JSA024-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.

S – ***Stop,*** *what has changed?*

T – ***Think*** *about the task*

E – ***Evaluate*** *potential hazards*

P – ***Plan*** *safe approach*

S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☒ Rubber Boots
☒ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
59.Jobsite Pre-briefing	44.None	29. Review JSA, SOP's, and discuss hazards that may be present and control measures for present hazards while on-site.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
2. Working near railroads	1. Passing Trains. 2. Slip/Trips/Falls.	1. Wear reflective vest/ Stay away from tracks/ Do not cross tracks within 10 ft. of train car or when there is a train within view/listen for train horn. 2. Be aware of tripping hazards/ Follow good housekeeping procedures/ Mark significant hazards with spray paint or cones.
3. Walking around site	10. Uneven terrain 11. Wildlife: Stray animals, mice/rats, vectors (i.e. mosquitoes, bees, etc.) 12. Weather: Heat/cold stress 13. Slip/Trips/Falls 14. Foot injuries 15. Eye injuries	9. Pay attention to surrounding area (puddles, wet, frozen, uneven areas); Mark with cones or spray paint. 10. Use bug spray/ Avoid stray animals/Use repellant when needed. 11. Dress for the correct weather situation/ Use sunscreen or protective clothing in sunlight, layers in cold weather/ Drink plenty of fluids/ Take breaks when needed. 4. Be aware of tripping hazards/ Follow good housekeeping procedures/ Mark significant hazards with spray paint or cones. 5. Wear proper PPE (Langan approved safety shoes)/ Change wet socks during cold weather. 6. Wear proper PPE (safety glasses/goggles).
4. Working near road	1. Passing vehicles 2. Slip/Trips/Falls	1. Wear reflective vest/ Stay away from roadway/ Use buddy system/ Place signage or cones when needed. 2. Be aware of tripping hazards/ Follow good housekeeping procedures/ Mark significant hazards with spray paint or cones.
5. All activities	90. Slips/ Trips/ Falls 91. Hand injuries, cuts or lacerations during manual handling of materials 92. Foot injuries 93. Back injuries 94. Traffic 95. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 96. High Noise levels 97. Overhead hazards 98. Heat Stress/ Cold Stress 99. Eye Injuries	101. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 102. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 103. Wear Langan approved safety shoes 104. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 105. Wear high visibility clothing & vest / Use cones or signs to designate work area 106. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 107. Wear hearing protection 108. Wear hard hat / Avoid areas were overhead hazards exist. 109. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 110. Wear safety glasses
Additional items.		

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	Sign Name	Date
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Groundwater Sampling**
JSA Number: **JSA008-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☒ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Tyvek sleeves, Dermal Protection, PID				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
60. Transport equipment to work area	1. Back Strain 2. Slips/ Trips/ Falls 3. Traffic 4. Cuts/abrasions from equipment 5. Contusions from dropped equipment	1. Use proper lifting techniques / Use wheeled transport. 2. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures. 3. Wear proper PPE (high visibility vest or clothing) 4. Wear proper PPE (leather gloves, long sleeves) 5. Wear proper PPE (safety shoes)
61. Remove well cover	34. Scrape knuckles/hand 35. Strain wrist/bruise palm 36. Pinch fingers or hand	6. Wear proper PPE (leather gloves) 7. Using a hammer, tap the end of the wrench to loosen grip of bolts. 8. Wear proper PPE (leather gloves)
62. Remove well cap and lock	17. Well can pops from pressure. 18. Exposure to hazardous substances through inhalation or dermal exposure 19. Scrape knuckles/hand 20. Strain write/bruise palm	8. Remove cap slowly to relieve pressure / Do not place face over well when opening / Wear proper PPE (safety glasses) 9. Use direct air monitoring/reading instrument (i.e., PID) / Be familiar with and follow actions prescribed in the CHASP / Wear proper PPE (nitrile gloves) 10. Wear proper PPE (leather gloves) 11. Using hammer, tap the end of the wrench to loosen grip
63. Measure head-space vapor levels	1. Exposure to hazardous substances through inhalation	1. Do not place face over well when collecting measurement
64. Remove dedicated tubing (if necessary)	1. Exposure to hazardous substances through inhalation or dermal exposure 2. Tubing swings around after removal	1. Wear proper PPE (nitrile gloves, Tyvek sleeves) 2. Wear proper PPE (safety glasses)
65. Set-up plastic sheeting for work site around the well	1. Lacerations when cutting plastic sheeting.	1. Use scissors to cut plastic sheeting / Cut motions should always be away from body and body parts

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
66. Measure depth to water	1. Exposure to hazardous substances through inhalation or dermal exposure 2. Pinch fingers or hand in water level instrument	1. Wear proper PPE (nitrile gloves) 2. Wear proper PPE (leather gloves)
67. Calibrate monitoring equipment	1. Skin or eye contact with calibration chemicals 2. Pinch fingers or hand in monitoring equipment	1. Wear proper PPE (safety glasses, nitrile gloves) 2. Wear proper PPE (leather gloves) / Avoid pinch points
68. Install sampling pump in well	1. Hand injuries during installation of pump 2. Lacerations when cutting tubing. 3. Back strain during installation of pump 4. Physical hazards associated with manual lifting of heavy equipment. 5. Back strain from starting generator. 6. Burns from hot exhaust from generator. 7. Electrical shock from improper use of generator and pump 8. Contaminated water spray from loose connections	1. Wear proper PPE (leather gloves, nitrile gloves) 2. Use safety tubing cutter. 3. Use proper lifting techniques. 4. Use proper lifting techniques / Use wheeled transport for heavy equipment. 5. Use arm when starting generator / Do not over-strain if generator does not start. 6. Do not touch generator near exhaust / Use proper handle to carry / Allow generator to cool down before moving. 7. Properly plug in pump to generator / Do not allow the pump or generator to contact water / Check for breaks in the cord. 8. Check all tubing connections to ensure they are tight and secure

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
10. Purge water	1. Contact with potentially contaminated groundwater. 2. Back strain from lifting buckets of water 3. Tripping potential on sample discharge lines and pump electric lines	1. Wear proper PPE (safety glasses, nitrile gloves) 2. Use proper lifting techniques / Use wheeled transport. 3. Organize discharge of electric line to keep out of way as much as possible / Mark potential tripping hazards with caution tape or safety cones
11. Sample water collection	1. Contact with potentially contaminated groundwater through dermal exposure. 2. Contact with and burns from acid used for sample preservation. 3. Tripping potential on sample discharge lines and pump electric lines 4. Lacerations from broken sample bottles 5. Back strain when transporting coolers full of collected samples. 6. Slips/ Trips/ Falls	1. Wear proper PPE (safety glasses, nitrile gloves) 2. Wear proper PPE (safety glasses, nitrile gloves) / Ensure sample bottle lids are secure before use and after sample collection. 3. Organize line to keep out of the way as much as possible / Mark potential tripping hazards with caution tape or safety cones. 4. Do not over-tighten bottle caps / Handle bottles safely to prevent breakage / Wrap glass bottles in bubble wrap, if possible 5. Use proper lifting techniques / Use wheeled transport / Seek assistance if coolers weight exceeds 50lbs. / Minimize distance to vehicle. 6. Have unobstructed path to vehicle or collection point / Follow good housekeeping procedures / Do not lift/walk with coolers that are too heavy/difficult to lift
12. Remove pump and pack up equipment	1. Back strain when removing pump or lifting heavy equipment	1. Use proper lifting technique / Use wheeled transport for heavy equipment
13. Replace well cap and lock	1. Scrape fingers/hand 2. Strain wrist/bruise palm	1. Wear proper PPE (leather gloves) 2. Using hammer, tap the end of the well cap to tighten grip
14. Replace well cover	1. Scrape knuckles/hand 2. Strain write/bruise palm. 3. Pinch fingers or hand	1. Wear proper PPE (leather gloves) 2. Using hammer, tap the end of the wrench to tighten the grip of the bolts. 3. Wear proper PPE (leather gloves)
15. Transport drums to disposal staging location	1. Back, arm or shoulder strain from moving drums. 2. Pinch hazard 3. Contact with potentially contaminated groundwater when moving improperly sealed drums. 4. Slips/ Trips/ Falls when moving drum. 5. Drop drum on feet/toes	1. Use drum cart for moving drums / Use proper lifting techniques / Obtain assistance, if needed 2. Wear proper PPE (leather gloves) 3. Wear proper PPE (nitrile gloves under leather gloves) / Properly seal drum to prevent leak. 4. Ensure route to move drum to storage space is dry and free from obstructions. 5. Wear proper PPE (safety shoes)
16. Place used PPE in designated disposal drum	1. Pressure build-up inside drum 2. Pinch hazard	1. Remove cap from bung hole in drum to relieve pressure. 2. Wear proper PPE (leather gloves)
17. Decontaminate equipment	1. Splashing water/soap from decontamination 2. Contact with potentially contaminated groundwater through dermal exposure. 3. Electrical shock from broken electric cords	1. Wear proper PPE (safety glasses) 2. Wear proper PPE (safety glasses, dermal protection) 3. Properly plug in pump to generator / Do not allow the pump or generator to contact water / Check for breaks in the cord
18. All activities	100. Slips/ Trips/ Falls 101. Hand injuries, cuts, or lacerations during manual handling of materials 102. Foot injuries 103. Back injuries 104. Traffic 105. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.)	111. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 112. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 113. Wear Langan approved safety shoes.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
	106. High Noise levels 107. Overhead hazards 108. Heat Stress/ Cold Stress 109. Eye Injuries	114. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 115. Wear high visibility clothing & vest / Use cones or signs to designate work area. 116. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 117. Wear hearing protection 118. Wear hard hat / Avoid areas where overhead hazards exist. 119. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 120. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Well Installation**
JSA Number: **JSA019-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT REQUIRED:				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: PID, Tyvek sleeves				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
69. Move equipment to work site	45. Back strain when lifting equipment. 46. Slips/ Trips/ Falls while moving equipment. 47. Traffic (if applicable) 48. Pinched fingers or running over toes during GeoProbe set-up. 49. Overturn drilling rig while transporting to loading dock on flat-bed tow truck	30. Use proper lifting technique (use legs for bending and lifting and not the back)/ Use wheeled transport for heavy equipment / Get assistance when handling loads greater than 50 lbs. / Minimize distance to vehicle 31. Use proper lifting technique (use legs for bending and lifting and not the back) / Use wheeled transport for heavy equipment / Get assistance when handling loads greater than 50 lbs. / Minimize distance to vehicle / Have unobstructed path to vehicle or collection point / Do not lift/walk with boxes that are heavy/difficult to lift 32. Wear high visibility safety vests or clothing / Exercise caution 33. Wear proper PPE (cut-resistant gloves) / Stay alert, be aware of geoprobe rig at all times 34. Drill rig should be parked in center of flat-bed tow truck / Emergency brake shall be used at all times during transport on the flat-bed truck/ All unnecessary personnel should stay away from the flat-bed truck during moving activities
70. Calibration of monitoring equipment	37. Skin or eye contact with calibration chemicals 38. Pinch fingers in monitoring equipment	35. Wear proper PPE (safety glasses/ goggles) 36. Wear proper PPE (leather gloves)
37. Set-up GeoProbe rig	21. Geoprobe rig movement	12. All field personnel should stay clear of the GeoProbe rig while moving / Use a spotter when backing up the GeoProbe
38. Advance GeoProbe rods below ground surface to desired depth	16. Underground utilities 17. High noise levels	12. Clean all subsurface soil borings to a minimum of 5 feet below grade. 13. Wear proper PPE (hearing protection)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
39. Remove and open acetate liner. 5. Remove and open acetate liner (cont'd)	110. Pinched fingers while removing macrocore. 111. Cuts/lacerations when cutting acetate liner open. 112. Exposure to hazardous vapors 113. Skin contacts with contaminated soil	5. Wear proper PPE (nitrile gloves, cut-resistant or leather gloves 6. Wear proper PPE (cut-resistant or leather gloves) 7. Do not place face over acetate liner when opening / Monitor hazardous vapors in air with PID / Upgrade PPE as necessary based on levels contained in the Health and Safety Plan 8. Wear proper PPE (nitrile gloves)
6. Remove excess soil from acetate liner and place in 55-gallon drum (IF NOT PERFORMED BY LANGAN, REMOVE!)	5. Cuts/lacerations from acetate liner 6. Pinched fingers/hand while opening/closing drum. 7. Skin contacts with contaminated soil 8. Soil debris in eyes	5. Wear proper PPE (cut-resistant or leather gloves) 6. Wear proper PPE (cut-resistant or leather gloves) 7. Wear proper PPE (nitrile gloves) 8. Wear proper PPE (safety glasses)
7. Attach hollow-stem augers to the GeoProbe rig; Advance augers and attach. additional augers until desired depth is reached	1. Strain wrist/bruise palm 2. Pinched fingers 3. Back Strain 4. Clothing entanglement 5. Carbon monoxide poisoning 6. Bruise toes/foot 7. High noise levels 8. Skin contacts with contaminated soil	1. Wear proper PPE (cut-resistant or leather gloves) 2. Wear proper PPE (cut-resistant or leather gloves) 3. Use proper lifting techniques. 4. Wear proper work attire(no loose clothing/strings) 5. Properly ventilate work area 6. Wear proper PPE (safety shoes) 7. Wear proper PPE (hearing protection) 8. Wear proper PPE (Tyvek sleeves, nitrile gloves)
8. Install monitoring well	1. Pinched fingers 2. Lacerations/abrasions 3. Back Strain	1. Wear proper PPE (cut-resistant or leather gloves) 2. Wear proper PPE (cut-resistant or leather gloves) 3. Use proper lifting techniques
9. Tremie-grout annulus space above bentonite seal	1. Back strain 2. Pinched fingers	1. Use proper lifting techniques. 2. Wear proper PPE (cut-resistant or leather gloves)
10. Install flush-mount monitoring well pad	1. Splashed concrete. 2. Pinched fingers 3. Cuts/lacerations	1. Wear proper PPE (safety glasses) 2. Wear proper PPE (cut-resistant or leather gloves) 3. Wear proper PPE (cut-resistant or leather gloves)
11. Decontaminate equipment	1. Splashing water/soap 2. Contact with potentially contaminated groundwater/soil through dermal exposure. 3. Electrical shock from broken electric cords	1. Wear proper PPE (safety glasses) 2. Wear proper PPE (safety glasses, dermal protection) 3. Properly plug in pump to generator / Do not allow the pump or generator to contact water / Check for breaks in the cord
12. Transport drums to central staging location (IF NOT PERFORMED BY LANGAN, REMOVE!)	7. Back, arm or shoulder strain from moving drums. 8. Pinch fingers/hand in drum cart when moving drums. 9. Pinch fingers/hand when operating lift-gate on vehicle. 10. Contact with potentially contaminated groundwater when moving improperly sealed drums. 11. Slips when moving drums. 12. Drop drum on feet/toes	121. Use drum cart for moving drums / Use proper lifting techniques / Do not lift heavy loads without assistance. 122. Wear proper PPE (cut-resistant or leather gloves) 123. Wear proper PPE (cut-resistant or leather gloves) 124. Wear proper PPE (nitrile gloves underneath work gloves) 125. Follow good housekeeping procedures / Ensure route to move drum and storage space is free from obstructions. 126. Wear proper PPE (safety shoes) / Work in a safe manner to prevent dropped drum

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
13. All activities 13. All activities (cont'd)	11. Slips/ Trips/ Falls 12. Hand injuries, cuts, or lacerations during manual handling of materials 13. Foot injuries 14. Back injuries 15. Traffic 16. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 17. High Noise levels 18. Overhead hazards 19. Heat Stress/ Cold Stress 20. Eye Injuries	11. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 12. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 13. Wear Langan approved safety shoes. 14. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 15. Wear high visibility clothing & vest / Use cones or signs to designate work area. 16. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 17. Wear hearing protection 18. Wear hard hat / Avoid areas where overhead hazards exist. 19. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 20. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Monitoring Well Development**
JSA Number: **JSA026-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☐ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☒ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Tyvek Sleeves				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
71.Transport equipment to work area	50.Back Strains 51.Slips/Trips/Falls 52.Traffic 53.Cuts/Abrasions/Contusions from equipment	35. Use proper lifting techniques/ Use wheeled transport/ use buddy system when lifting equipment. 36. Minimize distance from work area/ unobstructed path to collection points and vehicle/ Follow good housekeeping procedures. 37. Wear high-visibility vest or clothing/Exercise caution/ Use traffic cones or signage if needed. 38. Wear proper PPE (leather gloves, long sleeves, Langan approved safety shoes).
72.Measure depth of water	39.Exposure to hazardous substances 40.Pinched fingers	40. Wear proper PPE (Nitrile gloves, Safety glasses/Face shield). 41. Wear proper PPE (cut-resistant gloves).
73.Install Tremie pipe in the monitoring well and connect to water source.	22. Hand injuries during installation (pinched fingers/hands). 23. Back strain from holding Tremie pipe. 24. High pressure water spray.	13. Wear proper PPE (Nitrile gloves/cut-resistant gloves). 14. Use proper lifting techniques/ Use two personnel when lowering pump greater than 80 feet. 15. Ensure all those connections are tight and secure/ Use proper PPE (face shield and safety glasses).
74.Install pump in to well. a. Connect pump to sample tubing. b. Lower pump to desired depth in well. c. Connect sample tubing to flow cell. d. Connect pump to power source	18. Hand injuries during pump installation and sample tubing cutting. 19. Back strain 20. Electric shock 21. Exhaust gases from generator 22. Burns from hot equipment	14. Wear proper PPE when installing pump and cutting sample tubing (Nitrile and cut-resistant gloves)/ Use tubing cutter. 15. Proper lifting techniques/ Two personnel when installing pump at depths greater than 80 feet/ Use buddy when lifting heavy loads (pump, generator)/Use wheeled transport. 16. Ensure equipment is (LO/TO: locked out/tagged out) prior to preforming any electrical connections/ Inspect wires for frays or cuts/Ensure generator is properly grounded prior to starting.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
(generator) e. Turn on power source (generator)		17. Position generator so that exhaust is flowing away from work area. 18. Do not touch exhaust or any hot part of generator/ Allow equipment time to cool down prior to carrying/ Use proper PPE (long sleeves, leather gloves)
75. Develop monitoring well. a. Jet water into well using Tremie pipe. b. Turn pump on and adjust to desired flow rate. c. Surge pump up and down well to remove sediment from screen. d. Containerize all purge water from well.	114. Hand injuries 115. Face injuries 116. Contaminated spray from water	127. Wear proper PPE (cut-resistant gloves and nitrile gloves). 128. Wear proper PPE (face shield and safety glasses)/do not stand over well opening. 129. Wear proper PPE (Face shield and safety goggles)/Tyvek over garments/ Ensure all connections are secure and tight/ Tubing outlet is contained in an overflow container.
76. Drum staging area.	1. Back, Arm, and shoulder strain. 2. Pinch points 3. Cross contamination 4. Slip/Trips/Falls	1. Use proper lifting techniques/ Use drum carts when moving drums/ use buddy system for moving of drums if needed/Move drums shortest distance needed. 2. Keep fingers and feet away from pinch points/ Use proper PPE (cut-resistant gloves, Langan approved safety shoes) 3. Use proper PPE (Nitrile gloves, Tyvek sleeves) 4. Ensure pathway is clear prior to moving equipment/ Mark all hazards/ Use additional person as a spotter if needed.
77. Equipment pack-up	1. Back Strains 2. Slips/Trips/Falls 3. Traffic 4. Cuts/Abrasions/Contusions from equipment.	1. Use proper lifting techniques/ Use wheeled transport/ use buddy system when lifting equipment. 2. Minimize distance from work area/ Unobstructed path to collection points and vehicle/ Follow good housekeeping procedures. 3. Wear high-visibility vest or clothing/Exercise caution/ Use traffic cones or signage if needed. 130. Wear proper PPE (leather gloves, long sleeves, Langan approved safety shoes).
78. All activities	1. Slips/ Trips/ Falls 2. Hand injuries, cuts, or lacerations during manual handling of materials 3. Foot injuries 117. Back injuries 118. Traffic 119. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 120. High Noise levels 121. Overhead hazards 122. Heat Stress/ Cold Stress 123. Eye Injuries	1. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves 3. Wear Langan approved safety shoes 4. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 5. Wear high visibility clothing & vest / Use cones or signs to designate work area 6. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 7. Wear hearing protection 8. Wear hard hat / Avoid areas where overhead hazards exist. 9. Wear proper attire for weather conditions (sunscreen or protective clothing

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 10. Wear safety glasses.
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Groundwater/Product Purging/Sampling with Bailer**
JSA Number: **JSA053**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

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E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☒ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☒ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☒ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Tyvek sleeves, Dermal Protection, PID, absorbent pads				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
79. Transport equipment to work area	6. Back Strain 7. Slips/ Trips/ Falls 8. Traffic 9. Cuts/abrasions from equipment 10. Contusions from dropped equipment	6. Use proper lifting techniques / Use wheeled transport. 7. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures. 8. Wear proper PPE (high visibility vest or clothing) 9. Wear proper PPE (leather gloves, long sleeves) 10. Wear proper PPE (safety shoes)
80. Remove well cover	41. Scrape knuckles/hand 42. Strain wrist/bruise plan 43. Pinch fingers or hand	9. Wear proper PPE (leather gloves) 10. Using a hammer, tap the end of the wrench to loosen grip of bolts. 11. Wear proper PPE (leather gloves)
81. Remove well cap and lock	25. Well can pops from pressure. 26. Exposure to hazardous substances through inhalation or dermal exposure 27. Scrape knuckles/hand 28. Pinch points 29. Strain write/bruise palm	12. Remove cap slowly to relieve pressure / Do not place face over well when opening / Wear proper PPE (safety glasses, face shield, hand protection) 13. Use direct air monitoring/reading instrument (i.e., PID) / Be familiar with and follow actions prescribed in the CHASP / Wear proper PPE (nitrile gloves) 14. Wear proper PPE (leather gloves) 15. Using hammer, tap the end of the wrench to loosen grip
82. Measure head-space vapor levels	2. Exposure to hazardous substances through inhalation	2. Do not place face over well when collecting measurement
83. Set-up plastic sheeting/absorbent pads	2. Lacerations when cutting plastic sheeting/absorbent pads.	2. Use scissors to cut plastic sheeting/absorbent pads / Cut motions should always be away from body and body parts

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
for work site around the well		
84. Lower Bailer sleeve into well	7. Repetitive motion injury (pulled arm/back muscles) 8. Dehydration	7. Take breaks while lowering bailer into well/ Use a mechanical device to lower bailer into well/ Rotate employees (take turns conducting the manual labor portion) 8. Take breaks and drink water.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
7. Purge/Sample water/product collection	1. Contact with potentially contaminated groundwater or product through dermal exposure 2. Contact with and burns from acid used for sample preservation 9. Tripping potential on sampling lanyard 10. Lacerations from broken sample bottles 11. Back strain when transporting coolers full of collected samples. 12. Slips/ Trips/ Falls	1. Wear proper PPE (safety glasses, nitrile gloves, safety shield, Tyvek) 2. Ensure sample bottle lids are secure before use and after sample collection 3. Organize lanyard to keep out of the way as much as possible / Mark potential tripping hazards with caution tape or safety cones 9. Do not over-tighten bottle caps / Handle bottles safely to prevent breakage / Wrap glass bottles in bubble wrap, if possible 10. Use proper lifting techniques / Use wheeled transport / Seek assistance if coolers weight exceeds 50lbs. / Minimize distance to vehicle. 11. Have unobstructed path to vehicle or collection point / Follow good housekeeping procedures / Do not lift/walk with coolers that are too heavy/difficult to lift
8. Retrieval of bailer	9. Repetitive motion injury (pulled arm/back muscles) 10. Dehydration	9. Take breaks while retrieving bailer out of the well/ Use a mechanical device to raise bailer out of well/ Rotate employees (take turns conducting the manual labor portion) 10. Take breaks and drink water.
9. Pack-up equipment	2. Back strain when removing or lifting heavy equipment	2. Use proper lifting technique / Use wheeled transport for heavy equipment
10. Replace well cap and lock	3. Scrape fingers/hand 4. Strain wrist/bruise palm	3. Wear proper PPE (leather gloves) 4. Using hammer, tap the end of the well cap to tighten grip
11. Replace well cover	4. Scrape knuckles/hand 5. Strain write/bruise palm. 6. Pinch fingers or hand	4. Wear proper PPE (leather gloves) 5. Using hammer, tap the end of the wrench to tighten the grip of the bolts. 6. Wear proper PPE (leather gloves)
12. Place used PPE in designated disposal drum	3. Pressure build-up inside drum 4. Pinch hazard	3. Remove cap from bung hole in drum to relieve pressure. 4. Wear proper PPE (leather gloves) 5. Product drums may require additional spill protection/electrical grounding, check local regulations
13. Decontaminate equipment	4. Splashing water/soap from decontamination 5. Contact with potentially contaminated groundwater through dermal exposure.	4. Wear proper PPE (safety glasses) 5. Wear proper PPE (safety glasses, dermal protection)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
14. All activities	124. Slips/ Trips/ Falls 125. Hand injuries, cuts, or lacerations during manual handling of materials 126. Foot injuries 127. Back injuries 128. Traffic 129. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 130. High Noise levels 131. Overhead hazards 132. Heat Stress/ Cold Stress 133. Eye Injuries	131. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 132. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 133. Wear Langan approved safety shoes. 134. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 135. Wear high visibility clothing & vest / Use cones or signs to designate work area. 136. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 137. Wear hearing protection 138. Wear hard hat / Avoid areas where overhead hazards exist. 139. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 140. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: Hammer Drill
JSA Number: JSA049

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

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P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
85.Transport equipment to work area	54.Back Strain 55.Slips/ Trips/ Falls 56.Traffic 57.Cuts/abrasions from equipment 58.Contusions from dropped equipment	16. Use proper lifting techniques / Use wheeled transport. 17. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures. 18. Wear proper PPE (high visibility vest or clothing) 19. Wear proper PPE (leather gloves, long sleeves) 20. Wear proper PPE (safety shoes)
86.Electrical Connection	44.Inspect electrical cord to drill. 45.Inspect hammer drill. 46.Inspect extension cord. 47.Test GFCI	12. Check the plug, ensure all connections are in place, check cord for frayed sections. If plug or cord are worn, do not use equipment until repaired. 13. Inspect chuck for proper grasping and holding of bit, check that plastic housing is not cracked or missing pieces. Do not use if chuck does not work properly or housing is compromised. 14. Inspect extension cord, if worn or stripped pull from service and replace 15. Test GFCI, replace if GFCI fails
87.Drill Bit	1. Inspect drill bit	1. Replace if worn. 2. Wear proper PPE (leather gloves) when installing and removing drill bit. 3. Ensure equipment is unplugged from electrical power when removing and installing drill bit.
88.Use of Hammer Drill	1. Hazards associated with using hammer drill, flying objects, heavy equipment, ground level hazards and dust. 2. Slips/ Trips/ Falls 3. Hazards associated drilling into concrete slab	1. Maintain a safe distance from other site operations / Wear proper PPE (hard hat, safety glasses, safety shoes, safety vest, ear protection and leather gloves) 2. Be aware of potential trip hazards / Follow good housekeeping procedures / Mark extension cord pathway with safety cones. 3. Do not push hammer drill during use.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
89. All activities 4. All activities (cont'd)	134. Slips/ Trips/ Falls 135. Hand injuries, cuts, or lacerations during manual handling of materials 136. Foot injuries 137. Back injuries 138. Traffic 139. Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 140. High Noise levels 141. Overhead hazards 142. Heat Stress/ Cold Stress 143. Eye Injuries	141. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards. 142. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery, or dirty objects before handling / Wear leather/ cut-resistant gloves. 143. Wear Langan approved safety shoes. 144. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible. 145. Wear high visibility clothing & vest / Use cones or signs to designate work area. 146. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 147. Wear hearing protection 148. Wear hard hat / Avoid areas where overhead hazards exist. 149. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 150. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Test Pits**
JSA Number: **JSA016-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

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P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☐ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
90.Transport equipment to work area	59.Back Strain 60.Slips/ Trips/ Falls 61.Traffic 62.Cuts/abrasions from equipment 63.Contusions from dropped equipment	21. Use proper lifting techniques / Use wheeled transport 22. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures 23. Wear proper PPE (high visibility vest or clothing) 24. Wear proper PPE (leather gloves, long sleeves) 25. Wear proper PPE (safety shoes)
91.Digging Test Pit	48.Back Strain 49.Unstable walls of excavation	16. Observe proper digging technique. Ensure spoil pile and equipment are at least 2 feet from edge of excavation. 17. Excavate test pit in a stepped manor.
92. All activities	144.Slips/ Trips/ Falls 145.Hand injuries, cuts, or lacerations during manual handling of materials 146.Foot injuries 147.Back injuries 148.Traffic 149.Wildlife: Stray dogs, Mice/rats, Vectors (i.e., mosquitoes, bees, etc.) 150.High Noise levels 151.Overhead hazards 152.Heat Stress/ Cold Stress 153.Eye Injuries	151.Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 152.Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 153.Wear Langan approved safety shoes 154.Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 155.Wear high visibility clothing & vest / Use cones or signs to designate work area

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
3. All activities (cont'd)		156. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed. 157. Wear hearing protection 158. Wear hard hat / Avoid areas where overhead hazards exist. 159. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress. 160. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Hand Auger Soil Sampling**
JSA Number: **JSA003-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last-Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT REQUIRED:				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☐ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: Half-face respirator, dust cartridges, PID (if applicable)				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
93.Unpack equipment	64.Slips/ Trips/ Falls 65.Physical hazards including strains and hand injury	1. Be aware of hazards in area/ Place safety cones in areas of potential slips/trips/falls 2. Use proper lifting techniques / Do not lift heavy loads without assitance / Avoid putting hands near pinch points / Wear proper PPE (leather gloves)
94.Calibration of monitoring equipment	50.Skin or eye contact with calibration chemicals 51.Pinch fingers in monitoring equipment	42. Wear proper PPE (safety glasses/ goggles) 43. Wear proper PPE (leather gloves)
95.Advancing and removing hand auger	30. Physical hazards including back strain and hand injury	16. Twist auger using arms and shoulders/ Do not over exert / Keep back in neutral position, bend at the knees / Request assistance when needed / Remove auger from ground keeping back in neutral position and lift using legs
96.Sample collections a) Monitor parameters b) Prepare sample containers and labels c) Collect soil sample d) Securely cap containers, label and store in sample cooler until shipping e) Deliver cooler to lab or courier to lab	23. Contact with potentially contaminated soil 24. Lacerations from broken sample bottles 25. Back strain with transporting coolers 26. Internal exposure to contaminants through inhalation of dust 27. Slips/ Trips/ Falls	19. Use monitoring devices / Wear proper PPE (safety glasses, nitrile gloves) 20. Do not over-tighten bottles caps / Handle bottles safety to prevent breakage 21. Use proper lifting techniques / Do not lift heavy loads without assistance 22. Avoid creating dust / If necessary, wear a half-face respirator with applicable dust cartridges / Inspect respirator for damage and cleanliness prior to use / Clean respirator after each use and store in a clean, secure location 23. Be alert / Follow good housekeeping procedures
97. Decontamination of equipment	154.Splashing water/soap from decontamination 155.Contact with potentially contaminated soil	161.Wear proper PPE (safety glasses, gloves) 162.Wear proper PPE (safety glasses, gloves)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
98. All activities 6. All activities (cont'd)	1. Slips/ Trips/ Falls 2. Hand injuries, cuts or lacerations during manual handling of materials 3. Foot injuries 4. Back injuries 5. Traffic 6. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 7. High Noise levels 8. Overhead hazards 9. Heat Stress/ Cold Stress 10. Eye Injuries	1. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 2. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 3. Wear Langan approved safety shoes 4. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 5. Wear high visibility clothing & vest / Use cones or signs to designate work area 6. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 7. Wear hearing protection 8. Wear hard hat / Avoid areas were overhead hazards exist. 9. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 10. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN	Job Safety Analysis (JSA) Health and Safety
JSA Title: Dynamic Cone Penetrometer Testing **JSA Number:** JSA017-01	
A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.	

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☒ Traffic Cones/Signs	☐ Life Vest/Jacket	
☐ Other:				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
99. Transport equipment to work area	66. Back Strain 67. Slips/ Trips/ Falls 68. Traffic 69. Cuts/abrasions from equipment 70. Contusions from dropped equipment	26. Use proper lifting techniuqes / Use wheeled transport 27. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures 28. Wear proper PPE (high visibility vest or clothing) 29. Wear proper PPE (leather gloves, long sleeves) 30. Wear proper PPE (safety shoes)
100. Assemble the dynamic cone penetrometer (DCP)	52. Pinching Hazard	18. Wear proper PPE (leather gloves) / Identify and avoid pinch points
101. Place DCP on the ground with pointed end down	31. Foot injuries	16. Wear proper PPE (safety shoes)
102. Lift hammer ot top of small cylinder and release without slamming the hammer against the top	1. Pinching Hazard 2. Back Strain	1. Wear proper PPE (leather gloves) / Indentify and avoid pinch points 2. Use proper lifting techqunies
103. All activities	156. Slips/ Trips/ Falls 157. Hand injuries, cuts or lacerations during manual handling of materials 158. Foot injuries 159. Back injuries 160. Traffic 161. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.)	163. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 164. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 165. Wear Langan approved safety shoes

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
5. All activities (cont'd)	162. High Noise levels 163. Overhead hazards 164. Heat Stress/ Cold Stress 165. Eye Injuries	166. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 167. Wear high visibility clothing & vest / Use cones or signs to designate work area 168. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 169. Wear hearing protection 170. Wear hard hat / Avoid areas were overhead hazards exist. 171. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 172. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

LANGAN

Job Safety Analysis (JSA)
Health and Safety

JSA Title: **Geotechnical Drilling**
JSA Number: **JSA014-01**

A Job Safety Analysis (JSA) must identify all job steps required to complete the task, the potential hazards employees could be exposed to while performing the job step and the preventative/corrective actions required to reduce/mitigate the identified potential hazards. Employees must certify that they have either prepared the JSA or have reviewed the JSA and are aware of the potential hazards associated with this task and will follow the provided preventive/corrective actions. Prior to the start of any work "TAKE 5" and conduct a Last Minute Risk Assessment.

S – ***Stop,*** *what has changed?*
T – ***Think*** *about the task*
E – ***Evaluate*** *potential hazards*
P – ***Plan*** *safe approach*
S - ***Start*** *task /* ***Stop*** *& regroup*

PERSONAL PROTECTIVE EQUIPMENT (Required or to be worn as needed):				
☒ Safety Shoes	☒ Long Sleeves	☒ Safety Vest (Class 2)	☒ Hard Hat	☒ Hearing Protection
☒ Safety Glasses	☐ Safety Goggles	☒ Face Shield	☒ Nitrile Gloves	☐ PVC Gloves
☒ Leather Gloves	☐ Cut Resist. Gloves	☐ Fall Protection	☐ Fire Resistant Clothing	☐ Rubber Boots
☐ Insect/Animal Repellent	☐ Ivy Blocker/Cleaner	☐ Traffic Cones/Signs	☐ Life Vest/Jacket	
☒ Other: NomeX (as needed)				

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
104. Transport equipment to work area	71. Back Strain 72. Slips/ Trips/ Falls 73. Traffic 74. Cuts/abrasions from equipment 75. Contusions from dropped equipment	31. Use proper lifting techniuqes / Use wheeled transport 32. Minimize distance to work area / Have unobstructed path to work area / Follow good housekeeping procedures 33. Wear proper PPE (high visibility vest or clothing) 34. Wear proper PPE (leather gloves, long sleeves) 35. Wear proper PPE (safety shoes)
105. Set-up HSA/SPT rig	53. Slips/ Trips/ Falls 54. Pinch Hazards 55. High noise levels 56. Clothing entanglement 57. Electrocution/falling equipment and debris from raising HSA/SPT rig mast 58. Carbon monoxide poisoning 59. HSA/SPT rig roll-over 60. HSA/SPT rig movement	19. Be aware of potential trip hazards / Follow good housekeeping procedures / Mark significant below-grade hazards (i.e. holes, trenches) with safety cones or spray paint 20. Wear proper PPE (leather gloves) 21. Wear proper PPE (hearing protection) 22. Wear proper attire for HSA/SPT rig (no loose clothing, strings, etc.) 23. Wear proper PPE (hard hats) / Be aware of locations at all times / Look up, down and around before raising mast / Check HSA/SPT drill rig mast for loose objects/debris before rasining 24. Stand upwind of rig engine 25. Do not move rig with mast raisied / Set stabilizers prior to raising mast / Inspect work area / If area appears unstable, the boring locations should be moved. 26. All field personnel should stay clear of rig while moving / Use a spotter when backing up the rig
106. Advance HSA/SPT rods, augers and casing below ground surface	32. Strain wrist/bruise palm 33. Pinched fingers 34. Back strain	17. Wear proper PPE (leather gloves) / Use proper technique for preparing rods / Use second person, if necessary 18. Wear proper PPE (leather gloves)

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
107. Advance HSA/SPT rods, augers and casing below ground surface (cont'd)	35. Clothing entanglement 36. Carbon monoxide poisoning 37. Bruised/Broken toes/feet 38. High noise levels	19. Use proper lifting techniques / Obtain assistance if needed 20. Wear proper attire for HSA/SPT rig (no loose clothing, strings, etc.) 21. Stand upwind of the rig 22. Wear proper PPE (safety shoes) 23. Wear proper PPE (hearing protection)
108. Remove and open split spoon	28. Pinched fingers 29. Cuts/lacerations 30. Skin contact with contaminated soil and groundwater	1. Wear proper PPE (nitrile and leather gloves) 2. Wear proper PPE (leather gloves) 3. Wear proper PPE (nitrile gloves, safety glasses)
109. Repeat steps 3 and 4 until desired depth is reached	5. See steps 3 and 4	1. See steps 3 and 4
110. Remove HSA/SPT rods, augers and casing and place in storage rack	1. Clothing entanglement 2. Back strain 3. Pinched fingers 4. Carbon monoxide poisoning 5. High noise levels	1. Wear proper attire for HSA/SPT rig (no loose clothing, strings, etc.) 2. Use proper lifting techniques / Obtain assistance if needed 3. Wear proper PPE (leather gloves) 4. Stand upwind of rig engine 5. Wear proper PPE (hearing protection)
111. Tremie-grout borehole with a cement-bentonite grout mixture	1. Splash cement/bentonite grout on face/eyes 2. Back strain 3. Pinched fingers	1. Wear proper PPE (safety glasses) 2. Use proper lifting techniques / Obtain assistance if needed 3. Wear proper PPE (nitrile gloves, leather gloves)
112. Decontaminate equipment	1. Contact with potentially impacted material 2. Contact with sharp pieces of equipment	1. Wear proper PPE (safety glasses, nitrile gloves) 2. Wear proper PPE (leather gloves)
113. Patch soil boring location to return to pre-existing conditions (i.e. concrete, asphalt, grass)	1. Cuts/lacerations 2. Splashed concrete on face/eyes 3. Hammer fingers/hands when patching asphalt	1. Wear proper PPE (leather gloves) / Use scissors for cutting 2. Use proper PPE (safety glasses) 3. Be aware of hands/fingers during hammering / Wear proper PPE (leather gloves)
114. All activities	166. Slips/ Trips/ Falls 167. Hand injuries, cuts or lacerations during manual handling of materials 168. Foot injuries 169. Back injuries 170. Traffic 171. Wildlife: Stray dogs, Mice/rats, Vectors (i.e. mosquitoes, bees, etc.) 172. High Noise levels 173. Overhead hazards 174. Heat Stress/ Cold Stress 175. Eye Injuries	173. Be aware of potential trip hazards / Follow good housekeeping procedures/ Mark significant hazards 174. Inspect for jagged/sharp edges, and rough or slippery surfaces / Keep fingers away from pinch points / Wipe off greasy, wet, slippery or dirty objects before handling / Wear leather/ cut-resistant gloves 175. Wear Langan approved safety shoes 176. Use proper lifting techniques / Consider load location, task repetition, and load weigh when evaluating what is safe or unsafe to lift / Obtain assistance when possible 177. Wear high visibility clothing & vest / Use cones or signs to designate work area 178. Be aware of surroundings at all times, including the presence of wildlife/ Do not approach stray dogs / Carry/use dog/animal repellant / Use bug spray when needed 179. Wear hearing protection 180. Wear hard hat / Avoid areas were overhead hazards exist.

JOB STEPS	POTENTIAL HAZARDS	PREVENTATIVE / CORRECTIVE ACTION
		181. Wear proper attire for weather conditions (sunscreen or protective clothing in sunlight, layers for cold weather) / Drink plenty of fluids to avoid dehydration / Takes breaks as necessary to avoid heat/cold stress 182. Wear safety glasses
Additional items.		
Additional Items identified while in the field. (Delete row if not needed.)		

Print Name	**Sign Name**	**Date**
Prepared by:		
Reviewed by:		

ATTACHMENT H

TAILGATE SAFETY BRIEFING FORM

LANGAN TAILGATE SAFETY BRIEFING

Date:_____ Time: _____

Leader:_____ Location:_____

Work Task:

_____

_____

SAFETY TOPICS (***provide some detail of discussion points***)

Chemical Exposure Hazards and Control:_____

_____

Physical Hazards and Control: _____

Air Monitoring: _____

PPE: _____

_____

Communications:_____

Safe Work Practices: _____

_____

Emergency Response: _____

Hospital/Medical Center Location: _____

Phone Nos.: _____

Other: _____

FOR FOLLOW-UP (the issues, responsibilities, due dates, etc.**)**

_____

_____

_____

ATTENDEES

PRINT NAME	COMPANY	SIGNATURE

E-13

Bally's Bronx
Bally's Draft Scope for Independent Construction Monitoring of Best Available Technologies
Prepared by: Langan Engineering

LANGAN

BALLY'S DRAFT SCOPE FOR INDEPENDENT CONSTRUCTION MONITORING OF BEST AVAILABLE TECHNOLOGIES

for

PROPOSED BALLY'S CASINO at FERRY POINT PARK Bronx, New York 10465

Prepared for:

Bally's Corporation
100 Westminster Street
Providence, Rhode Island 02903

Prepared by:

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
368 Ninth Avenue, 8th Floor
New York, New York 10001

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LANGAN

June 6, 2025
170773001

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1. OBJECTIVE

The purpose of this report is to summarize the appointment and role of an independent construction monitor on behalf of Bally's New York Operating Company, LLC ("Bally's"; the "Applicant") for the proposed development of the approximately 18.38-acre portion of the Bally's Golf Links at Ferry Point in the Bronx (the "Development Site"). This report will be appended to the Final Environmental Impact Statement (FEIS) as requested by the New York City Department of Environmental Protection (DEP) and, to the extent required, will serve as an exhibit to any future agreement in land disposition between the Applicant and the City of New York (the City).

2. INTRODUCTION AND PROPOSED DEVELOPMENT

The Bally's Golf Links at Ferry Point Golf Course (the "Golf Course"), which is licensed to Bally's by New York City (NYC) Parks, is located within the larger 413.8 public Ferry Point Park ("the Park"). The Park is bisected by the Whitestone Bridge and the Hutchinson River Expressway. Most of the area of the Park east of the Whitestone Bridge (approximately 222-acres) was formerly used as a municipal solid waste landfill. The Development Site is part of Bronx Block 5622, Lot 1, and is currently improved with the Golf Course clubhouse, parking lot, a portion of the Golf Course practice area, and landscaped areas.

The proposed development includes demolition of existing structures to facilitate the development of an approximately 3,093,880-gross-square-foot (gsf) gaming facility with approximately 5,146 gaming positions stations, a 500-key hotel, approximately 6,100 gsf of retail space, a 2000-seat multi-purpose event and entertainment venue, an approximately 2,000-square-foot police substation, and parking for 4,660 vehicles. A replacement stand-alone golf clubhouse would also be constructed within the Development Site, just north of the gaming facility, and the Golf Course would continue to be operated by Bally's and remain open to the public. In connection with the gaming facility, but outside the 18.38-acre Development Site, the uninterrupted circular roadway within the Park that connects the southbound and northbound Hutchinson River Expressway service roads (referred to as Ring Road) will be widened and improved in coordination with the New York City Department of Transportation (NYCDOT). Supplemental roadway improvements will be undertaken to improve circulation near the Development Site.

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3. AIR QUALITY EMISSION CONTROL MEASURES

Emissions from on-site construction equipment and on-road construction-related vehicles during the proposed development, as well as dust generated from construction activities, have the potential to affect air quality. Emission evaluations assume reduction measures that are mandated by law and that would be put into practice for this construction project. Construction of the Development Site would be in accordance with all applicable laws, regulations, and building codes as described below, including the requirements of Best Available Technology (BAT), as prescribed in Local Law 77 and the NYC Air Pollution Control Code. These include the following:

- *Fugitive Dust Control Plans* - In compliance with the NYC Air Pollution Control Code's provisions regarding control of fugitive dust, contractors would be required to ensure that trucks carrying loose material use water as a dust suppression measure. Additionally, trucks hauling loose material would be equipped with tight-fitting tailgates and their loads would be securely covered prior to leaving the site. Streets adjacent to the site would be cleaned as frequently as needed by the construction contractor and water sprays would be used during lading/unloading to avoid generating dust.

- *Clean Fuel* - Ultra-low sulfur diesel (ULSD) would be used to comply with the Rules of the City of New York Title 15, Chapter 14, Section 14-06. This will reduce diesel particulate matter and SO2 emissions.

- *BATs* - Non-road diesel engines with a power rating of 50 horsepower (hp) or greater will utilize BAT, as prescribed in Local Law 77, such as diesel particulate filters, to comply with the Rules of the City of New York Title 15, Chapter 14, Section 14-02. All diesel-powered non-road construction equipment greater than 50 hp would meet the Environmental Protection Agency (EPA) Tier 4 emissions standards. In addition, controlled truck fleets – including but not limited to concrete mixing and pumping trucks – would utilize BAT technology, as prescribed in Local Law 77, to reduce diesel particulate matter (DPM) emissions. Diesel particulate filters (DPFs) have been identified as being the tailpipe technology currently proven to have the highest reduction capability. DPFs would be installed either by the original equipment manufacturer or retrofitted. Retrofitted DPFs must be verified by EPA or the California Air Resources Board. Active DPFs or other technologies proven to achieve an equivalent reduction may also be used.

- *Diesel Equipment Reduction* - To the extent practicable, hoists and small equipment – such as welders, stud machines, and other equipment – would use electric motors that operate on grid power instead of diesel power engines.

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- *Restrictions on Vehicle Idling* - The NYC Administrative Code Title 24, Section 24-163 restricts unnecessary idling. In accordance with this code, on-site vehicle idle time would be restricted to three minutes for all equipment and vehicles that are not using their engines to operate a loading, unloading, or processing device (e.g., concrete mixing trucks) or otherwise required for the proper operation equipment.

- *Source Location and Shielding* - To reduce concentration increments at sensitive receptors, large emissions sources and activities such as concrete trucks, generators, and large compressors will be located away from the sensitive receptors to the extent practical. On-site construction activities would occur behind a minimum 8-foot-tall wooden (or similar) construction fence.

Overall, these emission control measures would be expected to significantly reduce DPM emissions. In addition, all necessary measures would be implemented to ensure that the NYC Air Pollution Control Code provisions regulating construction-related dust emissions are followed.

4. APPOINTMENT AND ROLE OF INDEPENDENT MONITORING

The Applicant will appoint an independent, third-party monitoring company, herein defined as "the Monitor," to monitor the construction activities summarized above at the Development Site (the "Monitoring Services"). The independent monitoring company shall be a New York State (NYS) registered professional engineer as defined in Title 6 of the New York Codes, Rules and Regulations (6 NYCRR) Part 360, and have experience with the environmental oversight required at the Development Site.

The Monitor will perform the Monitoring Services pursuant to an agreement for construction monitoring services (the "Monitoring Services Agreement"). The Monitoring Services Agreement shall include, *inter alia*, a detailed scope of work that shall be subject to prior review and approval by DEP. The Applicant shall submit a draft of the Monitoring Services Agreement to DEP. If DEP fails to provide comments within a 30-day period following the submission of the Monitoring Services Agreement, DEP the Monitoring Services Agreement shall be deemed approved.. The Monitoring Services Agreement shall provide for the commencement of Monitoring Services upon commencement of demolition or excavation on the Development Site, whichever first occurs. The Monitoring Services Agreement, and the Applicant's obligation to retain the Monitor, shall terminate upon issuance of a temporary certificate of occupancy with respect to the Development Site.

The Monitoring Services Agreement may include provision for the retention by the Monitor (or, if acceptable to DEP, by the Applicant) of consultants with expertise appropriate to assist the Monitor in its performance of the Monitoring Services and shall require the Monitor to issue

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reports of the Applicant's compliance with the Construction Mitigation Measures (CMMs) on a schedule reasonably acceptable to DEP (e.g., once a quarter). The Monitor may at any time also provide the Applicant and DEP with notice of their determination that a CMM has not been implemented, accompanied by supporting documentation establishing the basis for such determination. The Monitor shall have access to the Development Site as necessary to perform the Monitoring Services, subject to compliance with all generally applicable site safety requirements imposed by law or pursuant to construction contracts in effect for the Development Site and shall be entitled to conduct any tests on the Development Site necessary to verify the Applicant's implementation and performance of the CMMs.

CMM Violations – if the Monitor determines, either in a quarterly report or otherwise, that the Applicant has failed to implement or to cause its contractors to implement a CMM, the monitor shall notify the Applicant and DEP of such alleged violation, and provide documentation establishing the basis for their determination.

If DEP determines that there is a basis for concluding that such a violation has occurred, DEP may thereupon give the Applicant written notice of such alleged violation (each, a "CMM Default Notice"), transmitted, in writing via overnight courier service to the Applicant. The Applicant shall have 5 days after receipt of a CMM Default Notice to; (i) dispute the alleged violation or (ii) effect a cure of the alleged violation, provided that if the violation is such that it cannot be cured within such 5-day period, and if the Applicant has commenced the cure of such violation within such 5-day period, such 5-day period shall be extended on a per-day basis until the Applicant continues to diligently prosecute such cure to completion. If the Applicant fails to either demonstrate to DEP's satisfaction that a violation has not occurred or effect a cure of the alleged violation within the cure period as set forth herein, DEP shall have the right to exercise any remedy available at law or in equity, including by way of administrative enforcement, to obtain or compel the Applicant's performance until such time as the Applicant has cured the violation.

In the event that, as a result of Circumstances Beyond Control of Applicant[1], the Applicant is unable to implement any required CMM at the time or times required, the Applicant shall, within 48 hours after the occurrence of such Circumstances Beyond the Control of Applicant become apparent, notify DEP in writing. Such notice (the "Delay Notice") shall include a description of the Circumstances Beyond the Control of Applicant, and, if known to the Applicant, their cause and probable duration. In the exercise of its reasonable judgement DEP shall, within 30 days of its receipt of the Delay Notice; (a) certify in writing that the Circumstances Beyond the Control of Applicant have occurred, or; (b) notify Applicant that it does not reasonably believe that the Circumstances Beyond Control of Applicant have occurred. Failure to respond within such 30-day period shall be deemed to be certification by DEP that the Circumstances Beyond the Control of Applicant have occurred. Upon a certification or deemed certification that Circumstances Beyond the Control of Applicant have occurred, DEP shall grant the Applicant a waiver of any of

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the obligations imposed with respect to the CMMs, either in whole or in part, or for a period of time to be specified by DEP. Any delay caused in reimplementation of the CMM as the result of Circumstances Beyond the Control of Applicant shall be deemed to continue only as long as the Circumstances Beyond the Control of Applicant continue. Upon cessation of the Circumstances Beyond the Control of Applicant causing such delay, the Applicant shall within 48 hours implement the CMM or proceed with work without the CMM which is the subject of a Delay Notice under this paragraph, unless and until it is determined that the Circumstances Beyond the Control of Applicant have occurred, or Circumstances Beyond the Control of Applicant are deemed to have occurred and DEP determines in the manner set forth above that failure to implement the CMM in whole or in part would not result in any new or different significant adverse environmental impact not addressed in the FEIS.

5. BID SPECIFICATIONS

Provisions to implement the measures set forth in Section 3 will be included in the Applicant's bid specifications as requirements for incorporation in its construction contracts.

6. INNOVATION; ALTERNATIVES

In complying with Section 3, the Applicant may, at its election, and with the concurrence of the Monitor, implement innovations, technologies or alternatives that are or become available, which would result in equal or better methods of achieving the relevant mitigation, in each case subject to the approval of DEP, which approval shall not be unreasonably withheld, conditioned, or delayed.

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[1] "Circumstances Beyond Control of Applicant" shall mean: delays from any and all causes beyond Applicant's reasonable control, including, without limitation, delays resulting from (i) governmental restrictions, limitations, regulations or controls (provided that such are other than ordinary restrictions, limitations, regulations or controls), (ii) orders of any court of competent jurisdiction (including, without limitation, any litigation which results in an injunction or a restraining order prohibiting or otherwise delaying the construction of any portion of the Development Site), (iii) labor disputes (including strikes, lockouts not caused by the Applicant, slowdowns and similar labor problems), (iv) accident, mechanical breakdown, shortages or inability to obtain labor, fuel, steam water, electricity, equipment, supplies or materials (for which no substitute is readily available at a comparable price), (v) acts of God (including inordinately severe weather conditions), (vi) removal of hazardous substances that could not have been reasonably foreseen, (vii) war, sabotage, hostilities, invasion, insurrection, riot, acts of terrorism, mob violence, malicious mischief, embargo, quarantines, national, regional or local disasters, calamities or catastrophes, national emergencies, enemy or hostile governmental action, civil disturbance or commotion, earthquake, flood, fire or other casualty, (xiii) a taking of the whole or any relevant portion of the Development Site by condemnation or eminent domain; (ix) unforeseen soil conditions substantially delaying construction of any relevant portion of the Development Site; (x) denial to the Applicant by any party of a right of access to any adjoining real property which right is vested in the Applicant, by contract or pursuant to applicable law, if such access is required to accomplish the obligations of the Applicant; (xi) inability of a public utility to provide power, heat or light or any other utility service, despite reasonable efforts by the Applicant to procure same from the utility; (xii) unusual delays in transportation.

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